LONGHORN ARMY AMMUNITION PLANT KARNACK, TEXAS

ADMINISTRATIVE RECORD

Volume 37

2023

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

VOLUME 37

2023

A.	Title:	Report (Cont'd) – Appendix C File 2, Level IV DoD to Quarterly Evaluation Report, 2nd Quarter (April–June) 2023, Groundwater Treatment Plant, Longhorn Army Ammunition Plant Karnack, Texas
	Author(s):	PCI-Bhate JV
	Recipient:	Environmental Protection Agency and Texas Commission on Environmental Quality
	Date:	December 21, 2023
	Bate Stamp:	01201026–01202966

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	179_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T18:17:00-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
n	Fail
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	99.964	3.103	1308653	2.57	100	100.0	90	110	
Be	9	1	No Gas	98.513	0.850	404447	0.82	100	98.5	90	110	
V	51	2	He	83.099	31.991	420851	88.70	100	83.1	90	110	CCV Main CR1-2 Failed
Cr	52	2	He	144.273	54.533	472549	88.64	100	144.3	90	110	CCV Main CR1-2 Failed
Fe	56	2	He	8681.630	26.190	40278482	88.68	10000	86.8	90	110	CCV Main CR1-2 Failed
Se	78	2	He	609.697	145.142	8060	87.17	100	609.7	90	110	CCV Main CR1-2 Failed
As	75	2	He	118.911	31.949	73140	89.24	100	118.9	90	110	CCV Main CR1-2 Failed
Ca	44	2	He	87836.149	153.080	332775	86.64	10000	878.4	90	110	CCV Main CR1-2 Failed
Na	23	2	He	111559.603	157.547	7591972	85.43	10000	1115.6	90	110	CCV Main CR1-2 Failed
Mg	24	2	He	34834.915	122.755	4523819	87.93	10000	348.3	90	110	CCV Main CR1-2 Failed
K	39	2	He	69075.191	147.905	6894861	87.15	10000	690.8	90	110	CCV Main CR1-2 Failed
Mn	55	2	He	93.109	13.625	371198	88.79	100	93.1	90	110	
Co	59	2	He	80.013	41.568	623212	89.51	100	80.0	90	110	CCV Main CR1-2 Failed
Ni	60	2	He	92.050	16.810	153061	88.48	100	92.0	90	110	
Cu	63	2	He	105.454	13.027	370541	88.52	100	105.5	90	110	
Zn	66	2	He	66.786	87.022	84829	88.67	100	66.8	90	110	CCV Main CR1-2 Failed
Al	27	2	He	154.727	57.658	34088	88.22	100	154.7	90	110	CCV Main CR1-2 Failed
B	11	1	No Gas	464.832	0.794	1130574	0.76	500	93.0	90	110	
Al	27	1	No Gas	105.855	4.241	1687684	2.23	100	105.9	90	110	
Si	28	1	No Gas	522.416	2.967	4548322	0.73	5000	10.4	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	98.823	1.472	1699640	0.48	100	98.8	90	110	
Cd	111	1	No Gas	97.962	2.697	334152	0.87	100	98.0	90	110	
Sr	88	1	No Gas	100.786	2.675	3368662	0.81	100	100.8	90	110	
Mo	95	1	No Gas	97.366	2.552	672157	1.17	100	97.4	90	110	
Sn	118	1	No Gas	98.826	2.025	1003314	0.10	100	98.8	90	110	
Sb	121	1	No Gas	100.243	3.755	1458826	2.10	100	100.2	90	110	
Ba	137	1	No Gas	96.775	2.690	544326	1.48	100	96.8	90	110	
Tl	205	1	No Gas	98.951	0.909	2526620	2.34	100	99.0	90	110	
Tl	203	1	No Gas	97.749	0.794	1049475	1.63	100	97.7	90	110	
Pb	208	1	No Gas	97.643	1.828	3679430	1.51	100	97.6	90	110	
U	238	1	No Gas	98.627	1.079	3572527	0.92	100	98.6	90	110	
Ca	43	2	He	109353.330	157.342	19842	87.11	10000	1093.5	90	110	CCV Main CR1-2 Failed
Sb	121	2	He	75.521	53.450	415563	89.15	100	75.5	90	110	CCV Main CR1-2 Failed
Ti	47	2	He	229.104	96.609	17691	88.15	100	229.1	90	110	CCV Main CR1-2 Failed
Cu	63	1	No Gas	100.559	3.888	1317630	2.23	100	100.6	90	110	
Se	82	1	No Gas	100.916	3.145	24802	1.00	100	100.9	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	931510	0.40	768064	121.28	70	120	ISTD Failed
Ge	72	2	He	468638	88.10	709415	66.06	70	120	ISTD Failed
Ge	72	1	No Gas	2656789	2.39	2282452	116.40	70	120	
In	115	1	No Gas	2891664	1.94	2434568	118.78	70	120	
Bi	209	1	No Gas	2361510	1.78	2062007	114.52	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	180_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T18:19:04-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	-0.051	-299.9	62436	1.7	0.5	
Be	9	1	No Gas	0.011	2.5	63	4.6	0.5	
V	51	2	He	-0.072	-25.4	2979	3.9	2.5	
Cr	52	2	He	0.069	140.7	18383	4.6	2.5	
Fe	56	2	He	2.120	13.7	34104	5.4	100	
Se	78	2	He	-0.538	-17.0	241	5.6	2	
As	75	2	He	0.007	332.0	321	9.4	2.5	
Ca	44	2	He	-0.196	-200.5	1280	1.4	100	
Na	23	2	He	17.552	15.6	87265	3.4	100	
Mg	24	2	He	1.272	22.2	1510	13.6	100	
K	39	2	He	0.664	251.1	215348	0.8	100	
Mn	55	2	He	0.132	17.5	1770	7.8	2.5	
Co	59	2	He	0.004	65.9	130	20.4	2.5	
Ni	60	2	He	0.157	77.0	757	40.5	2.5	
Cu	63	2	He	-0.212	-9.2	1123	10.7	2	
Zn	66	2	He	1.499	28.7	2577	23.3	2.5	
Al	27	2	He	0.149	153.0	807	15.2	5	
B	11	1	No Gas	-13.123	-8.3	31213	5.0	0.5	
Al	27	1	No Gas	0.127	58.1	19411	5.6	5	
Si	28	1	No Gas	5.244	18.1	317130	1.9	10	
Ag	107	1	No Gas	0.006	33.0	233	15.1	2.5	
Cd	111	1	No Gas	0.000	2050.4	9	233.7	1	
Sr	88	1	No Gas	0.028	9.9	1914	2.9	2.5	
Mo	95	1	No Gas	0.091	47.0	1137	22.4	2.5	
Sn	118	1	No Gas	0.234	17.3	3334	8.2	5	
Sb	121	1	No Gas	0.210	0.2	3087	0.7	2.5	
Ba	137	1	No Gas	0.589	17.7	3394	12.9	2.5	
Tl	205	1	No Gas	0.599	35.7	15007	36.6	1	
Tl	203	1	No Gas	0.620	30.6	6512	31.5	1	
Pb	208	1	No Gas	0.058	31.7	2977	22.5	2.5	
U	238	1	No Gas	0.022	43.2	807	41.5	2.5	
Ca	43	2	He	4.621	228.5	57	62.0	100	
Sb	121	2	He	0.213	7.6	1560	6.9	2.5	
Ti	47	2	He	0.116	72.6	53	47.2	2.5	
Cu	63	1	No Gas	-0.275	-6.2	2344	9.8	2.5	
Se	82	1	No Gas	0.413	30.9	31	97.4	2	

QC ISTD Table

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

Continuing Calibration Blank (CCB) Report

Li	6	1	No Gas	940892	3.29	768064	122.50	70	120	ISTD Failed
Ge	72	2	He	798950	0.58	709415	112.62	70	120	
Ge	72	1	No Gas	2570922	0.73	2282452	112.64	70	120	
In	115	1	No Gas	2802263	3.51	2434568	115.10	70	120	
Bi	209	1	No Gas	2276192	3.10	2062007	110.39	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	182_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T18:24:39-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
n	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
Li	7	1	No Gas	97.848	4.878	1232533	2.56	100	97.8	90	110	
Be	9	1	No Gas	95.360	3.874	376313	1.28	100	95.4	90	110	
V	51	2	He	93.469	0.820	676009	0.27	100	93.5	90	110	
Cr	52	2	He	93.631	1.069	756880	1.29	100	93.6	90	110	
Fe	56	2	He	9468.719	2.221	64544181	1.32	10000	94.7	90	110	
Se	78	2	He	94.187	2.213	12941	1.32	100	94.2	90	110	
As	75	2	He	92.380	0.765	117415	1.42	100	92.4	90	110	
Ca	44	2	He	9720.910	0.298	531543	1.18	10000	97.2	90	110	
Na	23	2	He	9492.555	1.286	11978335	0.57	10000	94.9	90	110	
Mg	24	2	He	9581.234	2.307	7203843	1.71	10000	95.8	90	110	
K	39	2	He	9627.413	1.759	11061262	0.82	10000	96.3	90	110	
Mn	55	2	He	95.100	1.031	594702	0.43	100	95.1	90	110	
Co	59	2	He	91.237	0.919	967984	0.01	100	91.2	90	110	
Ni	60	2	He	94.899	1.250	243438	0.35	100	94.9	90	110	
Cu	63	2	He	93.291	1.746	599221	1.00	100	93.3	90	110	
Zn	66	2	He	93.922	1.492	134354	0.70	100	93.9	90	110	
Al	27	2	He	97.309	2.504	54390	1.66	100	97.3	90	110	
B	11	1	No Gas	455.025	3.867	1065317	2.83	500	91.0	90	110	
Al	27	1	No Gas	106.705	1.567	1609256	1.40	100	106.7	90	110	
Si	28	1	No Gas	528.272	0.709	4347373	1.23	5000	10.6	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	97.636	1.681	1548974	0.85	100	97.6	90	110	
Cd	111	1	No Gas	96.008	2.119	302129	1.55	100	96.0	90	110	
Sr	88	1	No Gas	100.733	3.781	3105181	1.61	100	100.7	90	110	
Mo	95	1	No Gas	96.966	2.242	617497	0.92	100	97.0	90	110	
Sn	118	1	No Gas	96.692	2.201	905547	1.23	100	96.7	90	110	
Sb	121	1	No Gas	97.155	2.195	1337354	1.77	100	97.2	90	110	
Ba	137	1	No Gas	94.656	2.747	491082	0.34	100	94.7	90	110	
Tl	205	1	No Gas	94.775	1.542	2313361	0.49	100	94.8	90	110	
Tl	203	1	No Gas	93.179	1.293	956426	0.27	100	93.2	90	110	
Pb	208	1	No Gas	94.516	1.152	3405446	0.38	100	94.5	90	110	
U	238	1	No Gas	95.817	2.716	3318086	1.64	100	95.8	90	110	
Ca	43	2	He	9486.389	0.851	31336	1.59	10000	94.9	90	110	
Sb	121	2	He	95.060	1.396	675409	0.79	100	95.1	90	110	
Ti	47	2	He	96.804	2.077	28553	1.89	100	96.8	90	110	
Cu	63	1	No Gas	98.645	0.831	1222786	0.95	100	98.6	90	110	
Se	82	1	No Gas	96.115	1.313	22341	1.24	100	96.1	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	895977	2.63	768064	116.65	70	120	
Ge	72	2	He	793896	0.91	709415	111.91	70	120	
Ge	72	1	No Gas	2511899	0.87	2282452	110.05	70	120	
In	115	1	No Gas	2667612	2.54	2434568	109.57	70	120	
Bi	209	1	No Gas	2257823	1.09	2062007	109.50	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	183_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T18:26:42-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
n	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
Li	7	1	No Gas	98.041	5.712	1239426	1.68	100	98.0	90	110	
Be	9	1	No Gas	95.589	3.488	378772	0.41	100	95.6	90	110	
V	51	2	He	94.202	0.887	677061	1.42	100	94.2	90	110	
Cr	52	2	He	95.100	1.376	763676	1.63	100	95.1	90	110	
Fe	56	2	He	9558.840	2.067	64752892	1.39	10000	95.6	90	110	
Se	78	2	He	94.961	0.765	12964	0.21	100	95.0	90	110	
As	75	2	He	94.172	0.976	118929	0.22	100	94.2	90	110	
Ca	44	2	He	9795.530	1.248	532248	1.34	10000	98.0	90	110	
Na	23	2	He	9486.701	1.226	11896271	0.67	10000	94.9	90	110	
Mg	24	2	He	9725.778	0.330	7267530	0.82	10000	97.3	90	110	
K	39	2	He	9586.907	0.663	10947481	0.23	10000	95.9	90	110	
Mn	55	2	He	96.071	0.817	597022	0.48	100	96.1	90	110	
Co	59	2	He	93.122	0.796	981861	1.13	100	93.1	90	110	
Ni	60	2	He	95.413	1.531	243225	0.91	100	95.4	90	110	
Cu	63	2	He	93.956	1.787	599714	1.27	100	94.0	90	110	
Zn	66	2	He	95.540	1.684	135809	1.18	100	95.5	90	110	
Al	27	2	He	97.840	0.590	54350	1.29	100	97.8	90	110	
B	11	1	No Gas	470.535	3.193	1104070	1.77	500	94.1	90	110	
Al	27	1	No Gas	102.803	3.797	1587945	1.01	100	102.8	90	110	
Si	28	1	No Gas	513.124	2.518	4332537	1.98	5000	10.3	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	97.389	2.101	1591607	2.48	100	97.4	90	110	
Cd	111	1	No Gas	95.251	0.823	308765	0.99	100	95.3	90	110	
Sr	88	1	No Gas	98.820	0.453	3138915	0.75	100	98.8	90	110	
Mo	95	1	No Gas	94.587	0.249	620513	0.18	100	94.6	90	110	
Sn	118	1	No Gas	95.980	0.597	925953	0.29	100	96.0	90	110	
Sb	121	1	No Gas	96.916	3.906	1365821	0.99	100	96.9	90	110	
Ba	137	1	No Gas	94.451	0.945	504832	0.63	100	94.5	90	110	
Tl	205	1	No Gas	97.218	0.352	2382278	0.31	100	97.2	90	110	
Tl	203	1	No Gas	95.579	0.367	984878	0.19	100	95.6	90	110	
Pb	208	1	No Gas	94.956	0.755	3434629	1.01	100	95.0	90	110	
U	238	1	No Gas	96.689	1.495	3361759	1.70	100	96.7	90	110	
Ca	43	2	He	9685.058	0.399	31790	0.92	10000	96.9	90	110	
Sb	121	2	He	94.709	0.608	668740	0.39	100	94.7	90	110	
Ti	47	2	He	96.242	0.821	28213	1.54	100	96.2	90	110	
Cu	63	1	No Gas	97.214	3.154	1233936	0.73	100	97.2	90	110	
Se	82	1	No Gas	95.620	2.353	22762	1.62	100	95.6	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	899844	3.76	768064	117.16	70	120	
Ge	72	2	He	788927	0.75	709415	111.21	70	120	
Ge	72	1	No Gas	2573434	2.95	2282452	112.75	70	120	
In	115	1	No Gas	2747070	0.42	2434568	112.84	70	120	
Bi	209	1	No Gas	2266411	0.28	2062007	109.91	70	120	

Sample Report

Sample Table

Sample Name	LCS-197198
Data File Name	184SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T18:28:48-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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
Li	7	1	No Gas	90.045	90.045	7.15	1151368	0.01	2000	
Be	9	1	No Gas	48.888	48.888	4.30	195111	0.03	2000	
V	51	2	He	46.600	46.600	2.11	352801	0.01	2000	
Cr	52	2	He	46.653	46.653	2.64	401960	0.01	2000	
Fe	56	2	He	4875.771	4875.771	2.07	34625887	0.01	200000	
Se	78	2	He	48.757	48.757	1.85	7134	0.68	2000	
As	75	2	He	47.122	47.122	1.43	62529	0.08	2000	
Ca	44	2	He	5034.198	5034.198	1.58	287310	1.75	200000	
Na	23	2	He	4934.764	4934.764	0.55	6518298	0.08	200000	
Mg	24	2	He	4977.558	4977.558	2.00	3897933	0.13	200000	
K	39	2	He	4962.080	4962.080	3.28	6044456	0.08	200000	
Mn	55	2	He	47.979	47.979	2.42	312925	0.02	2000	
Co	59	2	He	46.254	46.254	1.78	511120	0.01	2000	
Ni	60	2	He	47.274	47.274	1.75	126480	0.04	2000	
Cu	63	2	He	47.292	47.292	2.54	317613	0.01	2000	
Zn	66	2	He	49.092	49.092	1.52	73351	0.07	2000	
Al	27	2	He	94.935	94.935	2.70	55280	0.17	2000	
B	11	1	No Gas	346.686	346.686	4.24	834988	0.04	2000	
Al	27	1	No Gas	100.301	100.301	3.69	1595944	0.01	2000	
Si	28	1	No Gas	459.823	459.823	4.53	4025731	0.01	2000	
Ag	107	1	No Gas	48.417	48.417	1.63	813721	0.01	2000	
Cd	111	1	No Gas	48.410	48.410	0.53	161399	0.03	2000	
Sr	88	1	No Gas	90.327	90.327	1.85	2950498	0.00	2000	
Mo	95	1	No Gas	47.567	47.567	1.89	321167	0.01	2000	
Sn	118	1	No Gas	86.183	86.183	1.57	855182	0.01	2000	
Sb	121	1	No Gas	48.902	48.902	3.11	709942	0.01	2000	
Ba	137	1	No Gas	47.166	47.166	0.79	259369	0.02	2000	
Tl	205	1	No Gas	44.740	44.740	2.04	1129077	0.00	2000	
Tl	203	1	No Gas	44.731	44.731	1.37	474716	0.01	2000	
Pb	208	1	No Gas	47.397	47.397	2.03	1765820	0.00	2000	
U	238	1	No Gas	68.939	68.939	2.17	2468184	0.00	2000	
Ca	43	2	He	4960.518	4960.518	2.26	17084	29.04	200000	
Sb	121	2	He	47.979	47.979	2.76	355013	0.01	2000	
Ti	47	2	He	125.202	125.202	1.67	38454	0.33	2000	
Cu	63	1	No Gas	49.745	49.745	3.36	653134	0.01	2000	
Zn	66	1	No Gas	49.897	49.897	1.88	188881	0.03	2000	
Se	82	1	No Gas	49.869	49.869	2.77	12190	0.41	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	906355	3.43	768064	118.01	70	120	
Ge	72	2	He	826896	1.57	709415	116.56	70	120	
Ge	72	1	No Gas	2650413	3.36	2282452	116.12	70	120	
In	115	1	No Gas	2825364	1.38	2434568	116.05	70	120	

Sample Report

Bi	209	1	No Gas	2334234	1.28	2062007	113.20	70	120	

Sample Report

Sample Table

Sample Name	HS23061712-08SD
Data File Name	187SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T18:34:47-05:00
Sample Type	Sample
Dilution	100
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	-0.008	-0.772	-981.30	63531	0.00	2000	
Be	9	1	No Gas	0.004	0.397	108.48	35	0.01	2000	
V	51	2	He	-0.055	-5.454	-23.92	3184	0.00	2000	
Cr	52	2	He	0.276	27.576	63.93	20492	0.00	2000	
Fe	56	2	He	9.617	961.732	2.24	87570	0.01	200000	
Se	78	2	He	-0.647	-64.746	-9.60	232	-0.28	2000	
As	75	2	He	0.020	1.989	164.66	346	0.01	2000	
Ca	44	2	He	240.413	24041.284	5.74	14828	1.62	200000	
Na	23	2	He	1971.220	197121.982	1.32	2615876	0.08	200000	
Mg	24	2	He	215.721	21572.082	2.25	167666	0.13	200000	
K	39	2	He	9.476	947.631	34.71	230705	0.00	200000	
Mn	55	2	He	6.753	675.323	2.67	44403	0.02	2000	
Co	59	2	He	0.183	18.284	5.34	2090	0.01	2000	
Ni	60	2	He	13.849	1384.889	0.69	36920	0.04	2000	
Cu	63	2	He	-0.261	-26.108	-8.58	827	-0.03	2000	
Zn	66	2	He	0.296	29.571	36.63	873	0.03	2000	
Al	27	2	He	0.485	48.509	23.55	1017	0.05	2000	
B	11	1	No Gas	-13.241	-1324.116	-2.02	31246	-0.04	2000	
Al	27	1	No Gas	0.718	71.766	6.21	28974	0.00	2000	
Si	28	1	No Gas	123.674	12367.369	2.43	1276071	0.01	2000	
Ag	107	1	No Gas	-0.003	-0.255	-68.21	90	0.00	2000	
Cd	111	1	No Gas	-0.002	-0.157	-404.87	2	-0.07	2000	
Sr	88	1	No Gas	5.129	512.910	0.94	169934	0.00	2000	
Mo	95	1	No Gas	0.014	1.400	180.71	637	0.00	2000	
Sn	118	1	No Gas	0.147	14.727	50.75	2528	0.01	2000	
Sb	121	1	No Gas	0.072	7.246	8.30	1177	0.01	2000	
Ba	137	1	No Gas	4.639	463.913	0.43	25906	0.02	2000	
Tl	205	1	No Gas	0.064	6.357	15.10	1834	0.00	2000	
Tl	203	1	No Gas	0.067	6.709	10.96	797	0.01	2000	
Pb	208	1	No Gas	-0.006	-0.639	-125.05	660	0.00	2000	
U	238	1	No Gas	0.012	1.184	17.01	470	0.00	2000	
Ca	43	2	He	250.635	25063.544	11.47	893	28.05	200000	
Sb	121	2	He	0.074	7.390	11.90	580	0.01	2000	
Ti	47	2	He	-0.008	-0.829	-605.73	17	-0.05	2000	
Cu	63	1	No Gas	-0.308	-30.751	-3.84	1964	-0.02	2000	
Zn	66	1	No Gas	0.273	27.293	19.28	2350	0.01	2000	
Se	82	1	No Gas	-0.015	-1.536	-1763.41	-72	0.02	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	948672	0.94	768064	123.51	70	120	ISTD Failed
Ge	72	2	He	818085	1.48	709415	115.32	70	120	
Ge	72	1	No Gas	2618805	0.92	2282452	114.74	70	120	
In	115	1	No Gas	2849025	0.74	2434568	117.02	70	120	

Sample Report

Bi	209	1	No Gas	2313737	2.34	2062007	112.21	70	120	

Sample Report

Sample Table

Sample Name	HS23061712-08PDS
Data File Name	188SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T18:36:47-05:00
Sample Type	Sample
Dilution	20
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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
Li	7	1	No Gas	0.644	12.882	15.05	69092	0.00	2000	
Be	9	1	No Gas	89.507	1790.142	1.89	360056	0.02	2000	
V	51	2	He	88.855	1777.102	1.68	656680	0.01	2000	
Cr	52	2	He	88.693	1773.854	1.72	733354	0.01	2000	
Fe	56	2	He	9284.705	185694.106	0.75	64666281	0.01	200000	
Se	78	2	He	89.707	1794.141	1.02	12608	0.71	2000	
As	75	2	He	89.218	1784.359	1.50	115847	0.08	2000	
Ca	44	2	He	10459.918	209198.369	1.33	584174	1.79	200000	
Na	23	2	He	18890.973	377819.456	1.20	24287969	0.08	200000	
Mg	24	2	He	10352.130	207042.599	1.04	7952088	0.13	200000	
K	39	2	He	9734.210	194684.203	1.25	11423870	0.09	200000	
Mn	55	2	He	122.329	2446.589	0.92	781251	0.02	2000	
Co	59	2	He	88.777	1775.539	0.90	962259	0.01	2000	
Ni	60	2	He	156.328	3126.562	1.07	409466	0.04	2000	
Cu	63	2	He	88.383	1767.651	2.05	580092	0.02	2000	
Zn	66	2	He	90.666	1813.329	1.45	132522	0.07	2000	
Al	27	2	He	90.667	1813.335	0.22	51830	0.17	2000	
B	11	1	No Gas	-13.458	-269.151	-2.91	29569	-0.05	2000	
Al	27	1	No Gas	96.354	1927.088	4.05	1500912	0.01	2000	
Si	28	1	No Gas	592.101	11842.018	3.89	4992505	0.01	2000	
Ag	107	1	No Gas	94.363	1887.250	1.52	1545548	0.01	2000	
Cd	111	1	No Gas	90.401	1808.013	2.21	293703	0.03	2000	
Sr	88	1	No Gas	25.702	514.047	0.73	819052	0.00	2000	
Mo	95	1	No Gas	92.677	1853.549	0.90	609442	0.02	2000	
Sn	118	1	No Gas	0.065	1.302	17.68	1653	0.00	2000	
Sb	121	1	No Gas	89.635	1792.708	2.07	1273459	0.01	2000	
Ba	137	1	No Gas	113.234	2264.688	0.44	606649	0.02	2000	
Tl	205	1	No Gas	98.258	1965.154	2.50	2411631	0.00	2000	
Tl	203	1	No Gas	97.267	1945.338	2.52	1003930	0.01	2000	
Pb	208	1	No Gas	89.928	1798.559	2.45	3257933	0.00	2000	
U	238	1	No Gas	0.032	0.637	8.58	1157	0.00	2000	
Ca	43	2	He	10156.341	203126.828	0.56	34270	29.64	200000	
Sb	121	2	He	87.276	1745.521	0.97	633529	0.01	2000	
Ti	47	2	He	92.935	1858.695	1.55	28009	0.33	2000	
Cu	63	1	No Gas	93.161	1863.223	2.15	1192151	0.01	2000	
Zn	66	1	No Gas	92.210	1844.193	1.74	340365	0.03	2000	
Se	82	1	No Gas	91.256	1825.114	1.26	21886	0.42	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	912987	2.88	768064	118.87	70	120	
Ge	72	2	He	811057	0.81	709415	114.33	70	120	
Ge	72	1	No Gas	2592721	2.73	2282452	113.59	70	120	
In	115	1	No Gas	2753543	1.17	2434568	113.10	70	120	

Sample Report

Bi	209	1	No Gas	2270376	1.02	2062007	110.11	70	120	

Sample Report

Sample Table

Sample Name	HS23061707-09
Data File Name	191SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T18:42:47-05:00
Sample Type	Sample
Dilution	20
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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
Li	7	1	No Gas	1.719	34.382	3.18	81025	0.00	2000	
Be	9	1	No Gas	0.006	0.114	56.35	40	0.01	2000	
V	51	2	He	0.022	0.448	73.40	3703	0.00	2000	
Cr	52	2	He	14.279	285.578	1.37	132551	0.01	2000	
Fe	56	2	He	4241.760	84835.206	2.18	29393904	0.01	200000	
Se	78	2	He	-0.720	-14.401	-56.16	219	-0.33	2000	
As	75	2	He	0.126	2.510	56.53	477	0.03	2000	
Ca	44	2	He	5683.065	113661.304	2.36	316285	1.80	200000	
Na	23	2	He	46527.693	930553.852	2.13	59403287	0.08	200000	
Mg	24	2	He	3333.807	66676.149	2.69	2547474	0.13	200000	
K	39	2	He	179.871	3597.415	3.09	422633	0.04	200000	
Mn	55	2	He	106.654	2133.070	2.21	677595	0.02	2000	
Co	59	2	He	0.373	7.462	7.46	4114	0.01	2000	
Ni	60	2	He	9.276	185.518	1.41	24502	0.04	2000	
Cu	63	2	He	0.140	2.801	21.96	3424	0.00	2000	
Zn	66	2	He	0.493	9.863	16.07	1147	0.04	2000	
Al	27	2	He	34.539	690.782	10.58	20099	0.17	2000	
B	11	1	No Gas	-15.924	-318.482	-1.38	23665	-0.07	2000	
Al	27	1	No Gas	42.536	850.719	23.34	665102	0.01	2000	
Si	28	1	No Gas	670.814	13416.274	1.90	5541942	0.01	2000	
Ag	107	1	No Gas	0.000	-0.005	-293.48	123	0.00	2000	
Cd	111	1	No Gas	0.023	0.457	30.08	82	0.03	2000	
Sr	88	1	No Gas	84.533	1690.661	2.51	2668514	0.00	2000	
Mo	95	1	No Gas	0.076	1.517	10.45	1013	0.01	2000	
Sn	118	1	No Gas	0.031	0.621	31.46	1313	0.00	2000	
Sb	121	1	No Gas	0.100	2.006	8.00	1537	0.01	2000	
Ba	137	1	No Gas	9.091	181.816	3.11	48454	0.02	2000	
Tl	205	1	No Gas	0.006	0.122	32.04	387	0.00	2000	
Tl	203	1	No Gas	0.002	0.046	130.42	110	0.00	2000	
Pb	208	1	No Gas	0.013	0.253	9.74	1320	0.00	2000	
U	238	1	No Gas	0.005	0.106	17.84	230	0.00	2000	
Ca	43	2	He	5617.662	112353.242	1.37	18873	29.77	200000	
Sb	121	2	He	0.106	2.121	12.44	803	0.01	2000	
Ti	47	2	He	2.330	46.607	12.79	717	0.33	2000	
Cu	63	1	No Gas	0.391	7.815	15.09	10668	0.00	2000	
Zn	66	1	No Gas	0.534	10.681	19.31	3234	0.02	2000	
Se	82	1	No Gas	0.949	18.982	17.28	158	0.60	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	899495	1.36	768064	117.11	70	120	
Ge	72	2	He	806719	0.55	709415	113.72	70	120	
Ge	72	1	No Gas	2554827	2.22	2282452	111.93	70	120	
In	115	1	No Gas	2731570	3.90	2434568	112.20	70	120	

Sample Report

Bi	209	1	No Gas	2237103	1.10	2062007	108.49	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	193_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T18:46:41-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
n	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
Li	7	1	No Gas	101.236	2.249	1220354	1.09	100	101.2	90	110	
Be	9	1	No Gas	98.245	2.244	371585	0.40	100	98.2	90	110	
V	51	2	He	94.518	1.128	684886	1.04	100	94.5	90	110	
Cr	52	2	He	94.781	0.870	767418	0.79	100	94.8	90	110	
Fe	56	2	He	9645.921	1.942	65884524	1.79	10000	96.5	90	110	
Se	78	2	He	95.087	2.461	13088	2.50	100	95.1	90	110	
As	75	2	He	94.220	0.865	119972	0.76	100	94.2	90	110	
Ca	44	2	He	9885.781	0.375	541558	0.38	10000	98.9	90	110	
Na	23	2	He	9566.744	0.747	12095232	0.64	10000	95.7	90	110	
Mg	24	2	He	9705.563	2.153	7311841	2.00	10000	97.1	90	110	
K	39	2	He	9625.947	2.674	11081842	2.63	10000	96.3	90	110	
Mn	55	2	He	97.002	0.615	607764	0.52	100	97.0	90	110	
Co	59	2	He	93.674	1.142	995778	0.99	100	93.7	90	110	
Ni	60	2	He	95.074	1.527	244368	1.49	100	95.1	90	110	
Cu	63	2	He	94.182	1.498	606125	1.37	100	94.2	90	110	
Zn	66	2	He	96.421	2.827	138189	2.67	100	96.4	90	110	
Al	27	2	He	98.052	1.149	54912	1.22	100	98.1	90	110	
B	11	1	No Gas	462.445	2.451	1036765	2.93	500	92.5	90	110	
Al	27	1	No Gas	104.601	2.161	1596906	2.20	100	104.6	90	110	
Si	28	1	No Gas	513.064	2.201	4280919	2.27	5000	10.3	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	96.816	1.023	1554830	1.95	100	96.8	90	110	
Cd	111	1	No Gas	95.629	0.263	304618	1.27	100	95.6	90	110	
Sr	88	1	No Gas	99.832	1.578	3115665	0.12	100	99.8	90	110	
Mo	95	1	No Gas	96.026	0.476	619039	1.26	100	96.0	90	110	
Sn	118	1	No Gas	97.049	1.208	919958	0.38	100	97.0	90	110	
Sb	121	1	No Gas	97.688	2.480	1360971	2.46	100	97.7	90	110	
Ba	137	1	No Gas	96.256	0.167	505583	1.34	100	96.3	90	110	
Tl	205	1	No Gas	97.186	2.054	2334663	1.80	100	97.2	90	110	
Tl	203	1	No Gas	96.056	1.798	970305	1.22	100	96.1	90	110	
Pb	208	1	No Gas	96.017	1.589	3404642	1.17	100	96.0	90	110	
U	238	1	No Gas	96.790	1.161	3299002	0.32	100	96.8	90	110	
Ca	43	2	He	9554.668	1.426	31620	1.28	10000	95.5	90	110	
Sb	121	2	He	95.655	1.107	680973	0.96	100	95.7	90	110	
Ti	47	2	He	96.176	2.802	28423	2.72	100	96.2	90	110	
Cu	63	1	No Gas	97.201	0.774	1219478	0.67	100	97.2	90	110	
Se	82	1	No Gas	97.846	1.072	23019	1.28	100	97.8	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	858405	1.99	768064	111.76	70	120	
Ge	72	2	He	795408	0.16	709415	112.12	70	120	
Ge	72	1	No Gas	2542106	0.21	2282452	111.38	70	120	
In	115	1	No Gas	2699548	1.50	2434568	110.88	70	120	
Bi	209	1	No Gas	2222065	1.45	2062007	107.76	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	194_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T18:48:35-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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
Li	7	1	No Gas	0.010	1182.3	60667	2.7	0.5	
Be	9	1	No Gas	0.009	75.5	53	51.6	0.5	
V	51	2	He	-0.107	-4.7	2781	0.8	2.5	
Cr	52	2	He	0.074	104.5	18790	2.8	2.5	
Fe	56	2	He	0.663	16.1	24596	2.5	100	
Se	78	2	He	-0.616	-21.1	235	6.8	2	
As	75	2	He	0.017	119.3	340	8.4	2.5	
Ca	44	2	He	-3.806	-33.2	1103	5.8	100	
Na	23	2	He	9.446	8.6	78584	1.6	100	
Mg	24	2	He	0.541	14.8	977	5.9	100	
K	39	2	He	-9.124	-9.6	208350	1.3	100	
Mn	55	2	He	0.071	7.6	1413	1.6	2.5	
Co	59	2	He	0.001	153.4	107	21.7	2.5	
Ni	60	2	He	0.030	138.8	440	25.8	2.5	
Cu	63	2	He	-0.259	-9.7	840	20.3	2	
Zn	66	2	He	0.388	12.2	1003	6.1	2.5	
Al	27	2	He	-0.221	-39.2	613	7.5	5	
B	11	1	No Gas	-12.242	-4.6	31953	3.2	0.5	
Al	27	1	No Gas	-0.018	-45.0	17451	1.0	5	
Si	28	1	No Gas	-3.909	-8.3	248348	0.6	10	
Ag	107	1	No Gas	0.009	87.9	277	45.2	2.5	
Cd	111	1	No Gas	-0.001	-491.0	5	234.9	1	
Sr	88	1	No Gas	0.009	26.9	1320	5.3	2.5	
Mo	95	1	No Gas	0.064	31.8	963	13.1	2.5	
Sn	118	1	No Gas	0.214	20.6	3150	12.4	5	
Sb	121	1	No Gas	0.138	11.9	2100	9.9	2.5	
Ba	137	1	No Gas	0.040	7.3	413	5.0	2.5	
Tl	205	1	No Gas	0.805	33.4	19847	32.6	1	
Tl	203	1	No Gas	0.797	34.7	8250	34.0	1	
Pb	208	1	No Gas	0.000	5892.3	877	7.4	2.5	
U	238	1	No Gas	0.027	37.9	973	35.7	2.5	
Ca	43	2	He	1.328	557.4	47	53.9	100	
Sb	121	2	He	0.109	16.7	830	15.8	2.5	
Ti	47	2	He	0.003	1273.3	20	50.0	2.5	
Cu	63	1	No Gas	-0.314	-2.8	1874	5.7	2.5	
Se	82	1	No Gas	0.470	74.2	45	188.2	2	

QC ISTD Table

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

Continuing Calibration Blank (CCB) Report

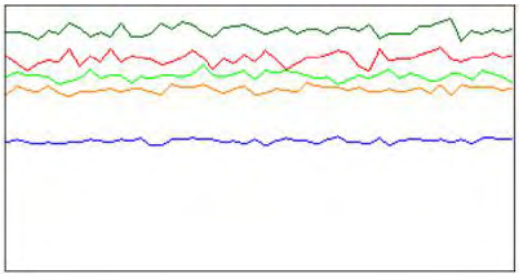
Li	6	1	No Gas	902603	0.86	768064	117.52	70	120	
Ge	72	2	He	814965	0.82	709415	114.88	70	120	
Ge	72	1	No Gas	2607955	1.23	2282452	114.26	70	120	
In	115	1	No Gas	2813228	1.31	2434568	115.55	70	120	
Bi	209	1	No Gas	2256057	1.27	2062007	109.41	70	120	

Tune Check Report

Operator Name	ALSHS.NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq. Date-Time	7/7/2023 9:57:41 AM
Report Comment	---
Instrument Name	G8421A SG18523544

[No Gas]

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	4020	40200.90		
24	20000	14752	147517.71		
59	50000	24578	245775.10		
115	50000	34332	343319.69		
208	20000	18206	182056.63		

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

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	2.812	5.000	
24	2.039	5.000	
59	1.762	5.000	
115	1.755	5.000	
208	2.104	5.000	

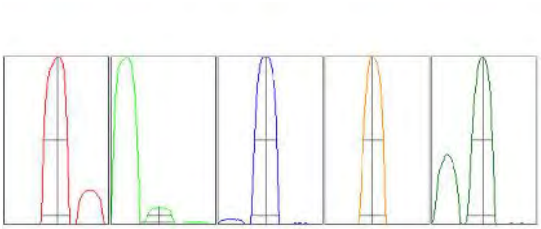
Mass	Background	Background (Required)	Background (Flag)
9	2.500		
24	1.200		
59	1.200		
115	2.100		
208	2.000		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.026 %
Doubly Charged	70 / 140 0.821 %

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	4138.69	9.05	8.90 - 9.10	
24	14548.82	23.90	23.90 - 24.10	
59	24827.64	58.90	58.90 - 59.10	
115	34958.64	114.90	114.90 - 115.10	
208	18199.50	208.00	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.67	0.790		
24	0.68	0.956		
59	0.64	0.819		
115	0.57	0.769		
208	0.60	0.782		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.48 L/min	Dilution Gas	0.57 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.8 V	Deflect	15.8 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-90 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	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	134	Axis Gain	1.0005	QP Bias	-3.0 V
Mass Offset	124	Axis Offset	0.06		

Hardware Settings

Torch

Torch H	0.8 mm	Torch V	-0.8 mm

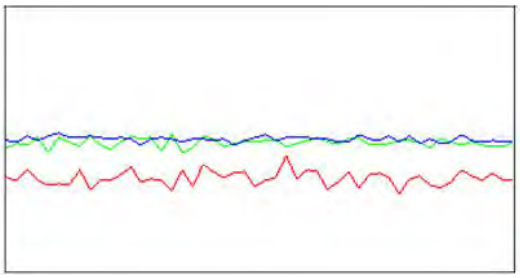
EM

Discriminator	4.5 mV	Analog HV	3004 V	Pulse HV	1633 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	500	177	1765.31		
24	2000	977	9773.80		
59	20000	10040	100398.78		

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

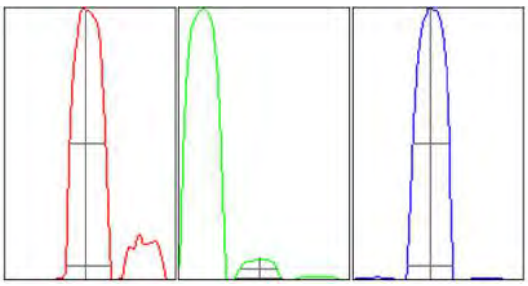
Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	8.032	5.000	Fail
24	3.335	5.000	
59	1.998	5.000	

Mass	Background	Background (Required)	Background (Flag)
9	0.500		
24	0.400		
59	0.200		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.785 %
Doubly Charged	70 / 140 0.958 %

Resolution/Axis



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

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	182.52	8.95	8.90 - 9.10	
24	1025.42	23.95	23.90 - 24.10	
59	10152.13	58.90	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.65	0.787		
24	0.67	0.829		

Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.64	0.818		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.48 L/min	Dilution Gas	0.57 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.4 V	Deflect	0.9 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-90 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	134	Axis Gain	1.0005	QP Bias	-15.0 V
Mass Offset	124	Axis Offset	0.06		

Hardware Settings

Torch

Torch H	0.8 mm	Torch V	-0.8 mm

EM

Discriminator	4.5 mV	Analog HV	3004 V	Pulse HV	1633 V

HS23061707-E2300611 Perchlorate Report-IV

ALS WO# HS23061707

June 30, 2023 Service Request No:E2300611

James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099

Laboratory Results for: HS23061707

Dear James,

Enclosed are the results of the sample(s) submitted to our laboratory June 26, 2023
For your reference, these analyses have been assigned our service request number **E2300611.**

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 2188. You may also contact me via email at James.Guin@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

James Guin

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

ALS Environmental

Client:	ALS Environmental - US	**Service Request No.:**	E2300611
Project:	HS23061707	**Date Received:**	06/26/23
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

Ten samples were received for analysis at ALS Environmental in Houston on 06/26/23.

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

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2300312: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in addition to MS/MSD for this extraction batch.

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:**E2300611
Project: HS23061707

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2300611-001	18WW19_062323	6/23/2023	0655
E2300611-002	18WW19_062323_a	6/23/2023	0655
E2300611-003	18WW20_062323	6/23/2023	0740
E2300611-004	18WW08_062323	6/23/2023	0830
E2300611-005	18WW09_062323	6/23/2023	0915
E2300611-006	18PTW15_062323	6/23/2023	1000
E2300611-007	18PTW15_062323_a	6/23/2023	1000
E2300611-008	MW18_062323	6/23/2023	1100
E2300611-009	MW19_062323	6/23/2023	1145
E2300611-010	18CPTMW26SW_062323	6/23/2023	1230

Service Request Summary

Folder #: **E2300611**
Client Name: ALS Environmental - US
Project Name: HS23061707
Project Number:

Report To: James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number:
E-mail: james.guin@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 06/26/23
Internal Due Date: 7/11/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23061707
EDD: No EDD Specified

10 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2300611-001	18WW19_062323	Water	06/23/23 0655	**IV**
E2300611-002	18WW19_062323_a	Water	06/23/23 0655	**IV**
E2300611-003	18WW20_062323	Water	06/23/23 0740	**IV**
E2300611-004	18WW08_062323	Water	06/23/23 0830	**IV**
E2300611-005	18WW09_062323	Water	06/23/23 0915	**IV**
E2300611-006	18PTW15_062323	Water	06/23/23 1000	**IV**
E2300611-007	18PTW15_062323_a	Water	06/23/23 1000	**IV**
E2300611-008	MW18_062323	Water	06/23/23 1100	**IV**
E2300611-009	MW19_062323	Water	06/23/23 1145	**IV**
E2300611-010	18CPTMW26SW_062323	Water	06/23/23 1230	**IV**

Service Request Summary

Folder #: **E2300611**
Client Name: ALS Environmental - US
Project Name: HS23061707
Project Number:

Report To: James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number:
E-mail: james.guin@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 06/26/23
Internal Due Date: 7/11/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23061707
EDD: No EDD Specified

10 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
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
Arizona Department of Health Services	AZ0793_2024	5/27/2024
Arkansas Department of Environmental Quality	88-00356	3/27/2024
California State Environmental Laboratory Accreditation Program	2919	4/30/2024
Department of Defense	L23-358	5/31/2025
Department of Defense	L22-90	3/31/2024
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2022-2023	7/31/2023
Louisiana Department of Health and Hospitals	LA028-2023	12/31/2023
Maine Department of Health and Human Services	2022017	6/5/2024
Michigan Depratment of Environmental Quality	9971-2023	4/30/2024
Minnesota Department of Health	2368363	12/31/2023
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2024
Nevada Department of Conservation and Natural Resources	TX026932023-1	7/31/2023
New Hampshire Environmental Laboratory Accreditation Program	209423	4/24/2024
New York Department of Health	11707	3/31/2024
Oklahoma Department of Environmental Quality	2022-141	8/31/2023
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Concervation	TN04016-2023	4/30/2024
Texas Commision on Environmental Quality	T104704231-23-30	4/30/2024
Utah Department of Health Environmental Laboratory Certification	TX026932022-13	7/31/2023
Washington Department of Ecology	C819-22	11/14/2023

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

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:** 22151

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:	HS23061707
TSR:	Holly Tignac

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS23061707-01**	**18WW19_062323**	**Water**	**23 Jun 2023 06:55**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			11 Jul 2023
2.	**HS23061707-02**	**18WW19_062323_a**	**Water**	**23 Jun 2023 06:55**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			11 Jul 2023
3.	**HS23061707-03**	**18WW20_062323**	**Water**	**23 Jun 2023 07:40**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			11 Jul 2023
4.	**HS23061707-04**	**18WW08_062323**	**Water**	**23 Jun 2023 08:30**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			11 Jul 2023
5.	**HS23061707-05**	**18WW09_062323**	**Water**	**23 Jun 2023 09:15**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			11 Jul 2023
6.	**HS23061707-06**	**18PTW15_062323**	**Water**	**23 Jun 2023 10:00**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			11 Jul 2023
7.	**HS23061707-07**	**18PTW15_062323_a**	**Water**	**23 Jun 2023 10:00**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			11 Jul 2023
8.	**HS23061707-08**	**MW18_062323**	**Water**	**23 Jun 2023 11:00**

RIGHT SOLUTIONS | RIGHT PARTNER

Subcontract Chain of Custody

SAMPLING STATE: Texas **COC ID:** 22151

	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			11 Jul 2023
9.	HS23061707-09	MW19_062323	Water	23 Jun 2023 11:45
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			11 Jul 2023
10.	HS23061707-10	18CPTMW26SW_062323	Water	23 Jun 2023 12:30
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			11 Jul 2023

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

QC Level: DOD IV (DoD Data Package)

Relinquished By: NR Date/Time:

Received By: CG Date/Time: 6-26-23 1910

Cooler ID(s): Temperature(s):

ALS Environmental

Cooler Receipt Form

Project Chemist JG

Client/Project ALS

Thermometer ID 1821

Date/Time Received: 6.26.23 Initials: CG

Date/Time Logged in: 6.26.23 Initials CG

1. Method of delivery: ○ US Mail ○ Fed Ex ○ UPS ○ DHL ✓ Courier (ALS) ○ Client

2. Samples received in: ✓ Cooler ○ Box ○ Envelope ○ Other

3. Were custody seals on coolers? ○ Yes ✓ No

Were they intact? ○ Yes ○ No ✓ N/A

Were they signed and dated? ○ Yes ○ No ✓ N/A

If yes, how many and where?

4. Packing Material: ○ Inserts ✓ Baggies ○ Bubble Wrap ○ Gel Packs ✓ Wet Ice ○ Sleeves ○ Other

5. Foreign or Regulated Soil? ○ Yes ○ No Location of Sampling:

Cooler Tracking Number	COC ID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?
NA		6.26.23	1910	CG	1.7	✓
						☐
						☐
						☐

6. Were custody papers properly filled out (ink, signed, dated, etc)? ✓ Yes ○ No

7. Did all bottles arrive in good condition (not broken, no signs of leakage)? ✓ Yes ○ No

8. Were all sample labels complete (i.e., sample ID, analysis, preservation, etc)? ✓ Yes ○ No

9. Were appropriate bottles/containers and volumes received for the requested tests? ✓ Yes ○ No

10. Did sample labels and tags agree with custody documents? ✓ Yes ○ No

Notes, Discrepancies, & Resolutions:

Service request Label:

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#: 422186 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 6/27/23 08:35

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2300606-001	AAR3332	.02	6850/ClO4 DOD			Ground Water	10mL	
2	E2300606-008	AAR3348	.02	6850/ClO4 DOD			Ground Water	10mL	
3	E2300610-001	1824DPTMW05_062223	.01	6850/ClO4 DOD			Water	10mL	
4	E2300610-002	18CPTMW105W_062223	.01	6850/ClO4 DOD			Water	10mL	
5	E2300610-003	18CPTMW108W_062223	.01	6850/ClO4 DOD			Water	10mL	
6	E2300610-004	18CPTMW108Wa_062223	.01	6850/ClO4 DOD			Water	10mL	
7	E2300610-005	18CPTMW015W_062223	.01	6850/ClO4 DOD			Water	10mL	
8	E2300610-006	18CPTMW01DW_062223	.01	6850/ClO4 DOD			Water	10mL	
9	E2300610-007	MW2_062223	.01	6850/ClO4 DOD			Water	10mL	
10	E2300610-008	MW1_062223	.02	6850/ClO4 DOD			Water	10mL	
11	E2300611-001	18WW19_062323	.01	6850/ClO4 DOD			Water	10mL	
12	E2300611-002	18WW19_062323_a	.01	6850/ClO4 DOD			Water	10mL	
13	E2300611-003	18WW20_062323	.01	6850/ClO4 DOD			Water	10mL	
14	E2300611-004	18WW08_062323	.01	6850/ClO4 DOD			Water	10mL	
15	E2300611-005	18WW09_062323	.01	6850/ClO4 DOD			Water	10mL	
16	E2300611-006	18PTW15_062323	.01	6850/ClO4 DOD			Water	10mL	
17	E2300611-007	18PTW15_062323_a	.01	6850/ClO4 DOD			Water	10mL	
18	E2300611-008	MW18_062323	.01	6850/ClO4 DOD			Water	10mL	
19	E2300611-009	MW19_062323	.01	6850/ClO4 DOD			Water	10mL	
20	E2300611-010	18CPTMW26SW_062323	.01	6850/ClO4 DOD			Water	10mL	
21	EQ2300312-01	MB		6850/ClO4 DOD			Liquid	10mL	
22	EQ2300312-02	LCS		6850/ClO4 DOD			Liquid	10mL	
23	EQ2300312-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
24	EQ2300312-04	AAR3332 MS	.02	6850/ClO4 DOD			Liquid	10mL	
25	EQ2300312-05	AAR3332 DMS	.02	6850/ClO4 DOD			Liquid	10mL	
26	EQ2300312-06	AAR3348 MS	.02	6850/ClO4 DOD			Liquid	10mL	
27	EQ2300312-07	AAR3348 DMS	.02	6850/ClO4 DOD			Liquid	10mL	
28	EQ2300312-08	MW1_062223 MS	.02	6850/ClO4 DOD			Liquid	10mL	
29	EQ2300312-09	MW1_062223 DMS	.02	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock1 Inventory ID 227236 Logbook Ref: Perchlorate (1st Source) Expires On: 07/31/2023

EQ2300312-02 1.00µL EQ2300312-03 1.00µL EQ2300312-04 1.00µL EQ2300312-05 1.00µL EQ2300312-06 1.00µL EQ2300312-07 1.00µL
EQ2300312-08 1.00µL EQ2300312-09 1.00µL

Preparation Information Benchsheet

Prep Run#: 422186 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 6/27/23 08:35

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 227244 Logbook Ref: Perchlorate Internal Standard Expires On: 07/31/2023

E2300606-001	100.00µL	E2300606-008	100.00µL	E2300610-001	100.00µL	E2300610-002	100.00µL	E2300610-003	100.00µL	E2300610-004	100.00µL
E2300610-005	100.00µL	E2300610-006	100.00µL	E2300610-007	100.00µL	E2300610-008	100.00µL	E2300611-001	100.00µL	E2300611-002	100.00µL
E2300611-003	100.00µL	E2300611-004	100.00µL	E2300611-005	100.00µL	E2300611-006	100.00µL	E2300611-007	100.00µL	E2300611-008	100.00µL
E2300611-009	100.00µL	E2300611-010	100.00µL	EQ2300312-01	100.00µL	EQ2300312-02	100.00µL	EQ2300312-03	100.00µL	EQ2300312-04	100.00µL
EQ2300312-05	100.00µL	EQ2300312-06	100.00µL	EQ2300312-07	100.00µL	EQ2300312-08	100.00µL	EQ2300312-09	100.00µL		

Preparation Steps

Step: Preparation
Started: 6/27/23 08:35
Finished: 6/27/23 16:02
By: XMI
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:**	E2300611
Project:	HS23061707	**Date Collected:**	6/23/23 0655
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	18WW19_062323	**Units:**	µg/L
Lab Code:	E2300611-001	**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	6/27/23	6/29/23 16:59	422186	809329	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300611
Project:	HS23061707	**Date Collected:**	6/23/23 0655
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	18WW19_062323_a	**Units:**	µg/L
Lab Code:	E2300611-002	**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	6/27/23	6/29/23 17:05	422186	809329	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300611
Project:	HS23061707	**Date Collected:**	6/23/23 0740
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	18WW20_062323	**Units:**	µg/L
Lab Code:	E2300611-003	**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	6/27/23	6/29/23 17:10	422186	809329	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300611
Project:	HS23061707	**Date Collected:**	6/23/23 0830
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	18WW08_062323	**Units:**	µg/L
Lab Code:	E2300611-004	**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	**7450**		100	50.0	25.0	1000	6/27/23	6/30/23 08:54	422186	809342	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300611
Project:	HS23061707	**Date Collected:**	6/23/23 0915
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	18WW09_062323	**Units:**	µg/L
Lab Code:	E2300611-005	**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	ND	U	0.100	0.0500	0.0250	1	6/27/23	6/29/23 17:27	422186	809329	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300611
Project:	HS23061707	**Date Collected:**	6/23/23 1000
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	18PTW15_062323	**Units:**	µg/L
Lab Code:	E2300611-006	**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	**51.9**		0.200	0.100	0.0500	2	6/27/23	6/30/23 08:59	422186	809342	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300611
Project:	HS23061707	**Date Collected:**	6/23/23 1000
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	18PTW15_062323_a	**Units:**	µg/L
Lab Code:	E2300611-007	**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	**54.7**		0.200	0.100	0.0500	2	6/27/23	6/30/23 09:06	422186	809342	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300611
Project:	HS23061707	**Date Collected:**	6/23/23 1100
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	MW18_062323	**Units:**	µg/L
Lab Code:	E2300611-008	**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	ND	U	0.100	0.0500	0.0250	1	6/27/23	6/29/23 17:43	422186	809329	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300611
Project:	HS23061707	**Date Collected:**	6/23/23 1145
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	MW19_062323	**Units:**	µg/L
Lab Code:	E2300611-009	**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	ND	U	0.100	0.0500	0.0250	1	6/27/23	6/29/23 17:49	422186	809329	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300611
Project:	HS23061707	**Date Collected:**	6/23/23 1230
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	18CPTMW26SW_062323	**Units:**	µg/L
Lab Code:	E2300611-010	**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	6/27/23	6/29/23 17:55	422186	809329	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300611
Project:	HS23061707	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2300312-01	**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	6/27/23	6/29/23 14:22	422186	809329	

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:**	E2300611
Project:	HS23061707	**Date Analyzed:**	6/30/23 - 6/30/23
Sample Matrix:	Water		

Lab Control Sample Summary

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

Analytical Method:	6850	**Units:**	µg/L
Prep Method:	Method	**Basis:**	NA
		Extraction Lot:	422186

	Lab Control Sample EQ2300312-02			Duplicate Lab Control Sample EQ2300312-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.0868	0.100	87	0.0893	0.100	89	84 - 119	3	15

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

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300611
Project:	HS23061707	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300312-02	**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	**0.0868**	J	0.100	0.0500	0.0250	1	6/27/23	6/30/23 09:12	422186	809342	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300611
Project:	HS23061707	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300312-03	**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	**0.0893**	J	0.100	0.0500	0.0250	1	6/27/23	6/29/23 14:33	422186	809329	

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

20230629-809329

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XM
2nd Review: GC

ICAL Date: 6/29/2023
Cal. Std. xp: 06/29/2023
ICAL ID: EC2300011

Mobile Phases : A:20mM ammonium acetate in water 32103046 **B:**Acetonitrile 226552

	Sample Name		File Name	Acquisition Method	Dilution	Comments	Date/Time
1	PERCHLORATE1		20230629-001	Perchlorate6850c.lcm	1x	227245	6/29/2023 12:59
2	PERCHLORATE2		20230629-002	Perchlorate6850c.lcm	1x	227246	6/29/2023 13:05
3	PERCHLORATE3		20230629-003	Perchlorate6850c.lcm	1x	227247	6/29/2023 13:10
4	PERCHLORATE4		20230629-004	Perchlorate6850c.lcm	1x	227248	6/29/2023 13:16
5	PERCHLORATE5		20230629-005	Perchlorate6850c.lcm	1x	227249	6/29/2023 13:21
6	PERCHLORATE6		20230629-006	Perchlorate6850c.lcm	1x	227250	6/29/2023 13:27
7	PERCHLORATE7		20230629-007	Perchlorate6850c.lcm	1x	227251	6/29/2023 13:32
8	PERCHLORATE8		20230629-008	Perchlorate6850c.lcm	1x	227252	6/29/2023 13:38
9	PERCHLORATE9		20230629-009	Perchlorate6850c.lcm	1x	227253	6/29/2023 13:43
10	PERCHLORATE10		20230629-010	Perchlorate6850c.lcm	1x	227254	6/29/2023 13:49
11	PERCHLORATEICV		20230629-011	Perchlorate6850c.lcm	1x	227256	6/29/2023 13:55
12	IB		20230629-012	Perchlorate6850c.lcm	1x		6/29/2023 14:00
13	LODV		20230629-013	Perchlorate6850c.lcm	1x	227501	6/29/2023 14:06
14	ICS		20230629-014	Perchlorate6850c.lcm	1x	32103024	6/29/2023 14:11
15	CCV		20230629-015	Perchlorate6850c.lcm	1x	227251	6/29/2023 14:17
16	EQ2300312-01		20230629-016	Perchlorate6850c.lcm	1x		6/29/2023 14:22
17	EQ2300312-02		20230629-017	Perchlorate6850c.lcm	1x	DNU-RR	6/29/2023 14:28
18	EQ2300312-03		20230629-018	Perchlorate6850c.lcm	1x		6/29/2023 14:33
19	E2300606-001		20230629-019	Perchlorate6850c.lcm	10x		6/29/2023 14:39
20	EQ2300312-04		20230629-020	Perchlorate6850c.lcm	1x		6/29/2023 14:44
21	EQ2300312-05		20230629-021	Perchlorate6850c.lcm	1x		6/29/2023 14:50
22	E2300606-002		20230629-022	Perchlorate6850c.lcm	5x		6/29/2023 14:55
23	E2300606-003		20230629-023	Perchlorate6850c.lcm	10x		6/29/2023 15:01
24	E2300606-004		20230629-024	Perchlorate6850c.lcm	10x		6/29/2023 15:06
25	E2300606-005		20230629-025	Perchlorate6850c.lcm	1x		6/29/2023 15:12
26	CCV		20230629-026	Perchlorate6850c.lcm	1x	227251	6/29/2023 15:17
27	E2300606-006		20230629-027	Perchlorate6850c.lcm	1x		6/29/2023 15:23
28	E2300606-007		20230629-028	Perchlorate6850c.lcm	500x		6/29/2023 15:28
29	E2300606-008		20230629-029	Perchlorate6850c.lcm	100x		6/29/2023 15:34
30	EQ2300312-06		20230629-030	Perchlorate6850c.lcm	100x		6/29/2023 15:40
31	EQ2300312-07		20230629-031	Perchlorate6850c.lcm	100x		6/29/2023 15:45
32	E2300606-009		20230629-032	Perchlorate6850c.lcm	1x		6/29/2023 15:53
33	E2300610-001		20230629-033	Perchlorate6850c.lcm	10000x		6/29/2023 15:58
34	E2300610-002		20230629-034	Perchlorate6850c.lcm	1x		6/29/2023 16:04
35	E2300610-003		20230629-035	Perchlorate6850c.lcm	1x		6/29/2023 16:09
36	E2300610-004		20230629-036	Perchlorate6850c.lcm	1x		6/29/2023 16:15
37	CCV		20230629-037	Perchlorate6850c.lcm	1x	227251	6/29/2023 16:21

20230629-809329

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XM
2nd Review: GC

ICAL Date: 6/29/2023
Cal. Std. xp: 06/29/2023
ICAL ID: EC2300011

Mobile Phases : **A:**20mM ammonium acetate in water 32103046 **B:**Acetonitrile 226552

	Sample Name		File Name	Acquisition Method	Dilution	Comments	Date/Time
38	E2300610-005		20230629-038	Perchlorate6850c.lcm	1x		6/29/2023 16:26
39	E2300610-006		20230629-039	Perchlorate6850c.lcm	1x		6/29/2023 16:32
40	E2300610-007		20230629-040	Perchlorate6850c.lcm	1x		6/29/2023 16:37
41	E2300610-008		20230629-041	Perchlorate6850c.lcm	1x	DNU-D	6/29/2023 16:43
42	EQ2300312-08		20230629-042	Perchlorate6850c.lcm	1x		6/29/2023 16:48
43	EQ2300312-09		20230629-043	Perchlorate6850c.lcm	1x		6/29/2023 16:54
44	E2300611-001		20230629-044	Perchlorate6850c.lcm	1x		6/29/2023 16:59
45	E2300611-002		20230629-045	Perchlorate6850c.lcm	1x		6/29/2023 17:05
46	E2300611-003		20230629-046	Perchlorate6850c.lcm	1x		6/29/2023 17:10
47	E2300611-004		20230629-047	Perchlorate6850c.lcm	1x	DNU-D	6/29/2023 17:16
48	CCV		20230629-048	Perchlorate6850c.lcm	1x	227251	6/29/2023 17:21
49	E2300611-005		20230629-049	Perchlorate6850c.lcm	1x		6/29/2023 17:27
50	E2300611-006		20230629-050	Perchlorate6850c.lcm	1x	DNU-D	6/29/2023 17:32
51	E2300611-007		20230629-051	Perchlorate6850c.lcm	1x	DNU-D	6/29/2023 17:38
52	E2300611-008		20230629-052	Perchlorate6850c.lcm	1x		6/29/2023 17:43
53	E2300611-009		20230629-053	Perchlorate6850c.lcm	1x		6/29/2023 17:49
54	E2300611-010		20230629-054	Perchlorate6850c.lcm	1x		6/29/2023 17:55
55	CCV		20230629-055	Perchlorate6850c.lcm	1x	227251	6/29/2023 18:06

Initial Calibration - Detailed Report

Calibration ID: EC2300011 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2300011-01	PERCHLORATE1	20230629-001	06/29/2023 12:59
02	EC2300011-02	PERCHLORATE2	20230629-002	06/29/2023 13:05
03	EC2300011-03	PERCHLORATE3	20230629-003	06/29/2023 13:10
04	EC2300011-04	PERCHLORATE4	20230629-004	06/29/2023 13:16
05	EC2300011-05	PERCHLORATE5	20230629-005	06/29/2023 13:21
06	EC2300011-06	PERCHLORATE6	20230629-006	06/29/2023 13:27
07	EC2300011-07	PERCHLORATE7	20230629-007	06/29/2023 13:32
08	EC2300011-08	PERCHLORATE8	20230629-008	06/29/2023 13:38
09	EC2300011-09	PERCHLORATE9	20230629-009	06/29/2023 13:43
10	EC2300011-10	PERCHLORATE10	20230629-010	06/29/2023 13:49

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

Perchlorate **Average RF** **RSD = 2.809** **Average RF = 0.1625**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1678	02	0.5000	0.1574	03	0.7000	0.1599	04	1.0000	0.1567
05	2.0000	0.1596	06	5.0000	0.1641	07	10.0000	0.1704	08	20.0000	0.1667
09	30.0000	0.1608	10	50.0000	0.1619						

Analyte

Perchlorate RSE = 2.81

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.103	3.2	02	0.5000	0.484	-3.1	03	0.7000	0.689	-1.6
04	1.0000	0.964	-3.6	05	2.0000	1.96	-1.8	06	5.0000	5.05	1.0
07	10.0000	10.5	4.8	08	20.0000	20.5	2.6	09	30.0000	29.7	-1.1
10	50.0000	49.8	-0.4								

Initial Calibration Verification Summary Report

Calibration ID:	EC2300011	**Instrument ID:**	E-LCMS-01
Datafile ID:	20230629-011	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2300011-11	T	Average RF	10	9.913	ng/mL	-0.9	<= 15

Insight Report

Printed at 6/29/2023 2:17:05 PM

Method File: I:\LCMS01\DATA\20230628\06282023.lcm
Project File: I:\LCMS01\DATA\20230628\06282023.damlp

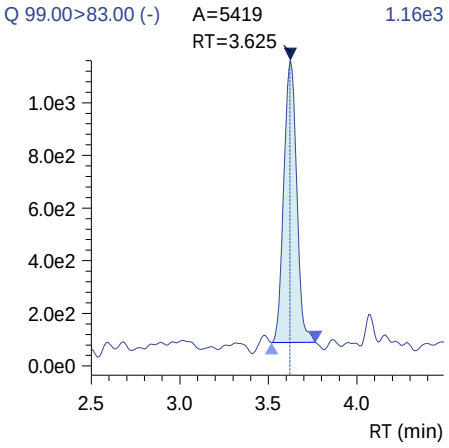
PERCHLORATE1

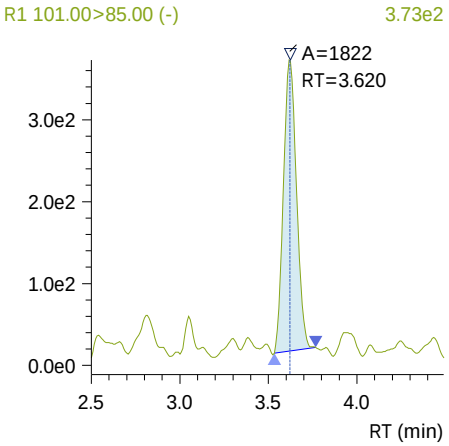
Sample ID: PERCHLORATE1
Date Acquired: 6/29/2023 12:59:40 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.625	5419	323018	0.1032	ng/mL	101.00 >85.00	33.63	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.617	323018	323018	1.0000	ng/mL	----	----	

Perchlorate

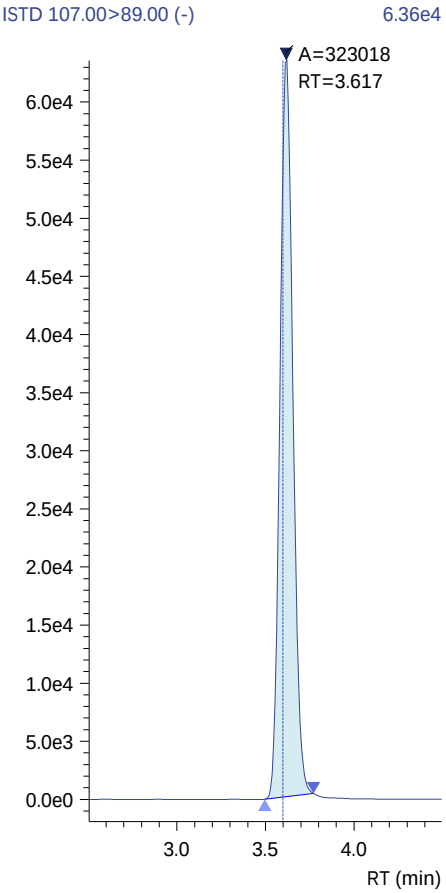
Conc 0.1032
R#1 33.63 (32.02)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/29/2023 2:17:05 PM

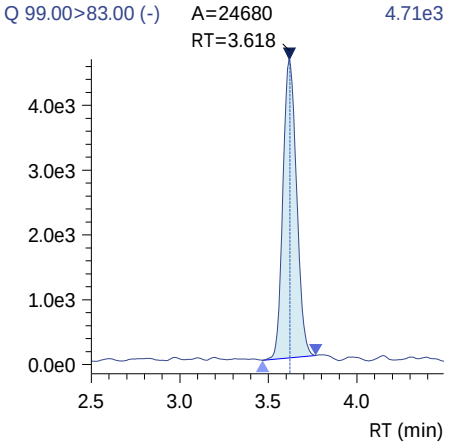
PERCHLORATE2

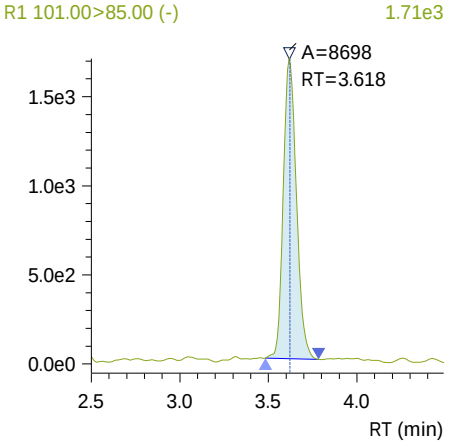
Sample ID: PERCHLORATE2
Date Acquired: 6/29/2023 1:05:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-002.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.618	24680	313519	0.4844	ng/mL	101.00 >85.00	35.24	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.618	313519	313519	1.0000	ng/mL	----	----	

Perchlorate

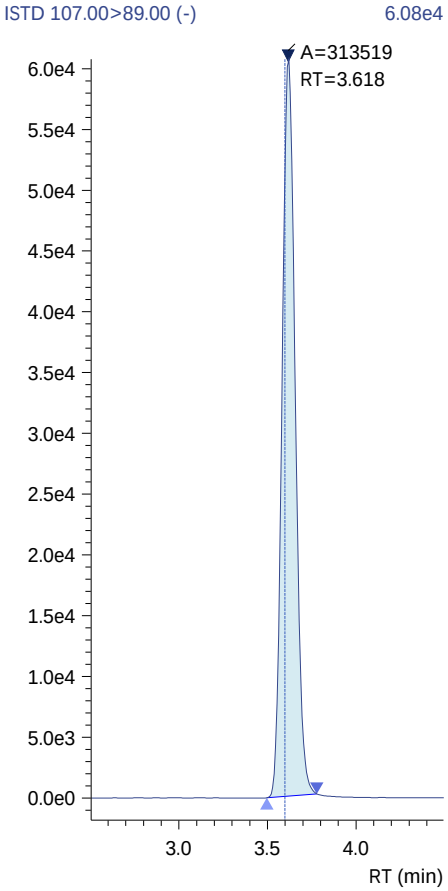
Conc 0.4844
R#1 35.24 (32.02)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/29/2023 2:17:05 PM

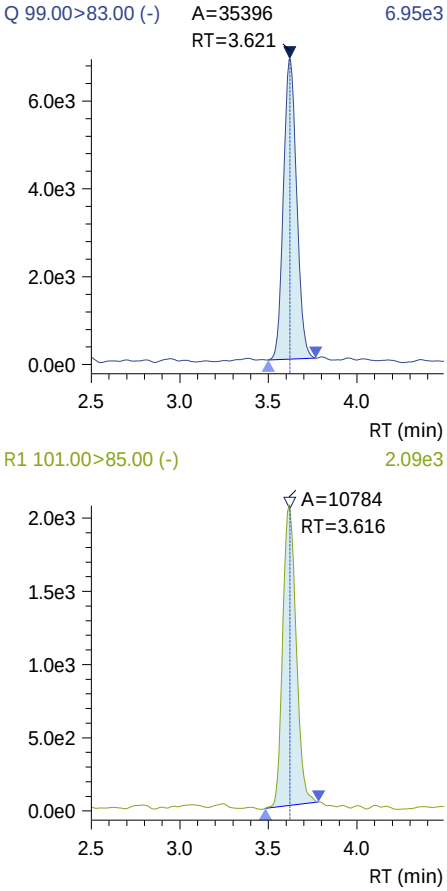
PERCHLORATE3

Sample ID: PERCHLORATE3
Date Acquired: 6/29/2023 1:10:46 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-003.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	Auto	3.621	35396	316311	0.6886	ng/mL	101.00 >85.00	30.47	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.618	316311	316311	1.0000	ng/mL	----	----	

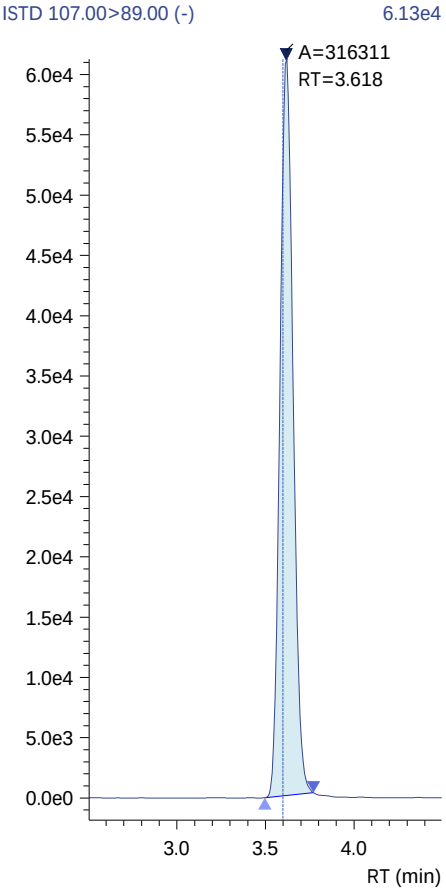
Perchlorate

Conc 0.6886
R#1 30.47 (32.02)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/29/2023 2:17:05 PM

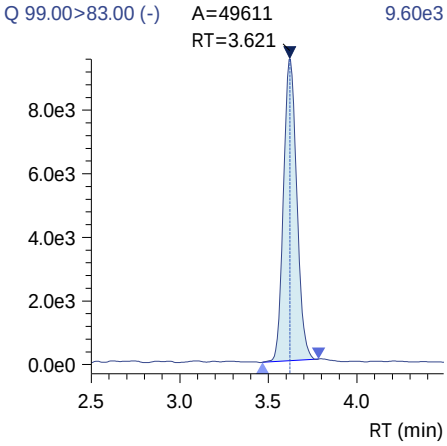
PERCHLORATE4

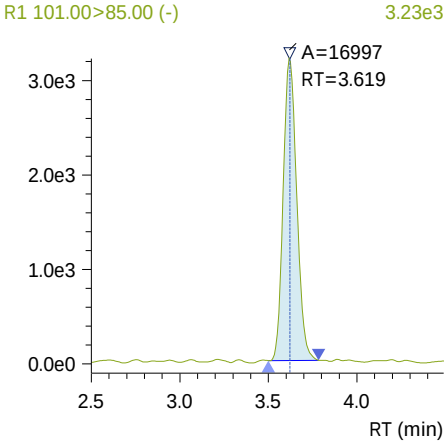
Sample ID: PERCHLORATE4
Date Acquired: 6/29/2023 1:16:19 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-004.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.621	49611	316580	0.9643	ng/mL	101.00 >85.00	34.26	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.618	316580	316580	1.0000	ng/mL	----	----	

Perchlorate

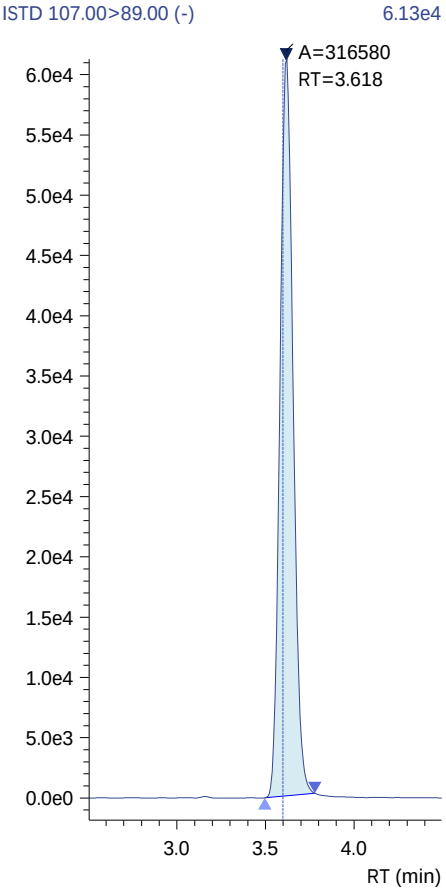
Conc 0.9643
R#1 34.26 (32.02)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/29/2023 2:17:05 PM

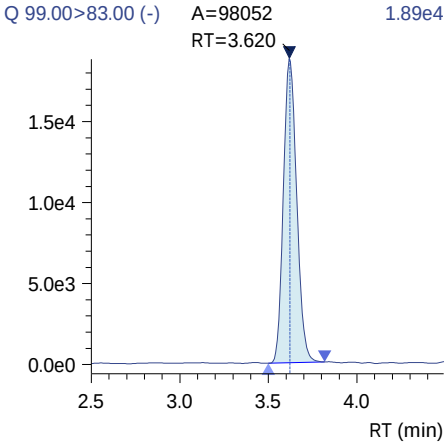
PERCHLORATE5

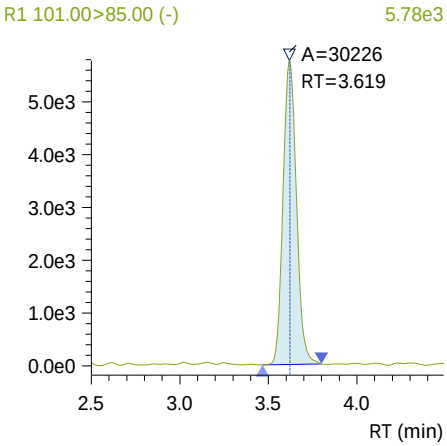
Sample ID: PERCHLORATE5
Date Acquired: 6/29/2023 1:21:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-005.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.620	98052	307162	1.9642	ng/mL	101.00 >85.00	30.83	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.617	307162	307162	1.0000	ng/mL	----	----	

Perchlorate

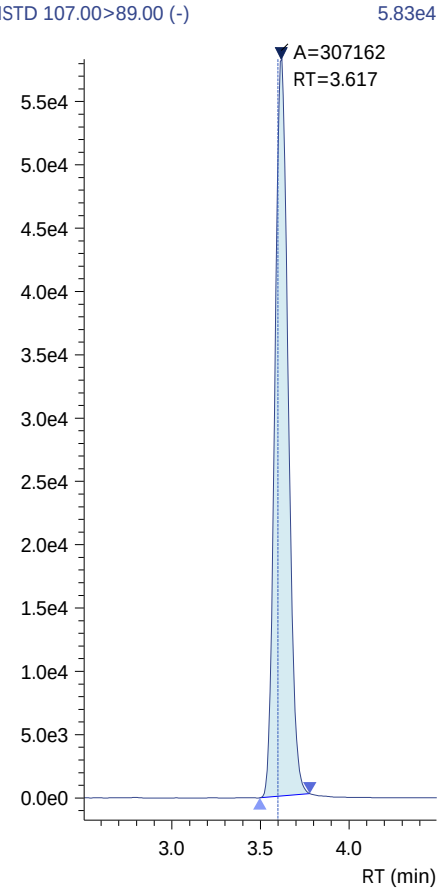
Conc 1.9642
R#1 30.83 (32.02)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/29/2023 2:17:05 PM

PERCHLORATE6

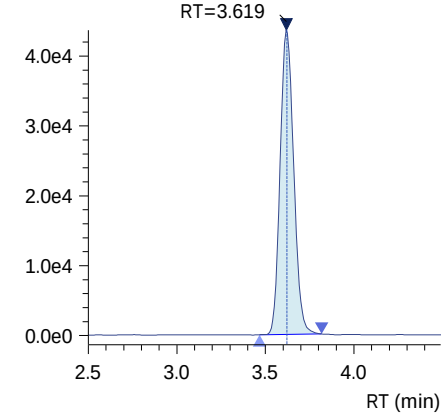
Sample ID: PERCHLORATE6
Date Acquired: 6/29/2023 1:27:22 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-006.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.619	232011	282827	5.0477	ng/mL	101.00 >85.00	31.17	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.617	282827	282827	1.0000	ng/mL	----	----	

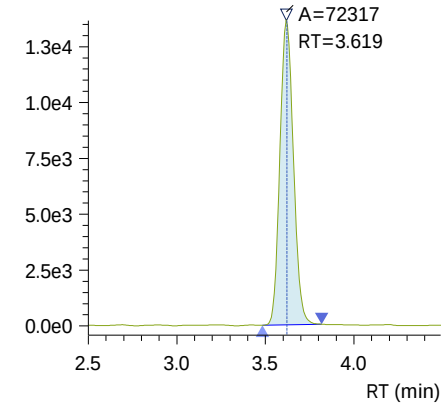
Perchlorate

Conc 5.0477
R#1 31.17 (32.02)

Q 99.00>83.00 (-) A=232011 RT=3.619 4.37e4



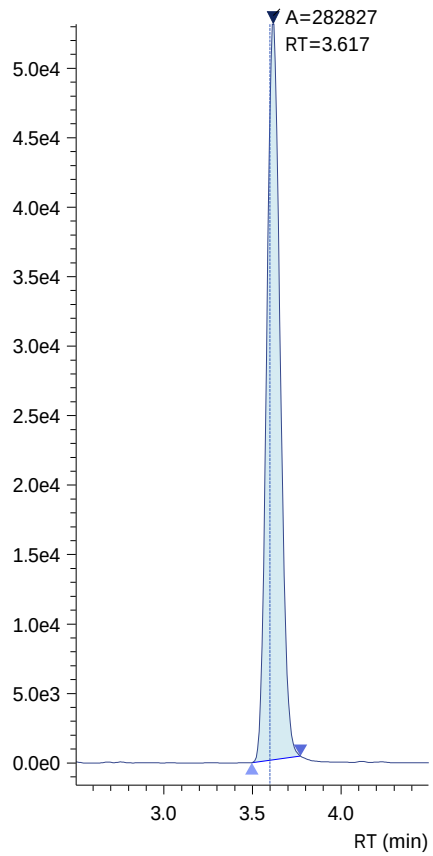
R1 101.00>85.00 (-) 1.37e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.32e4



Insight Report

Printed at 6/29/2023 2:17:05 PM

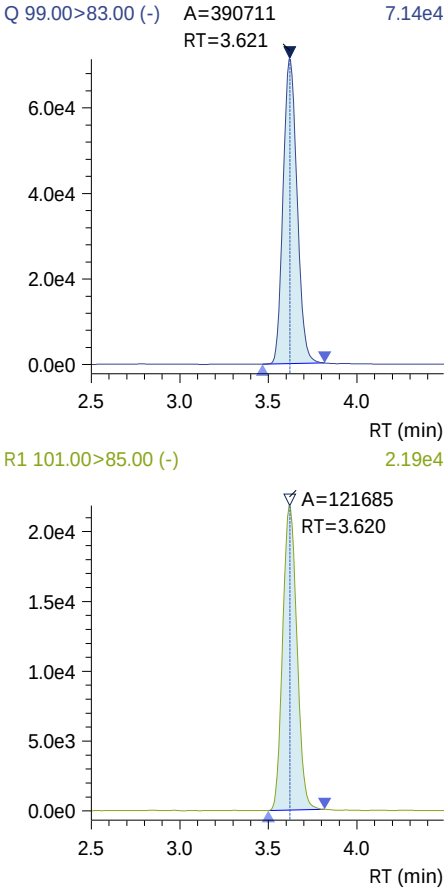
PERCHLORATE7

Sample ID: PERCHLORATE7
Date Acquired: 6/29/2023 1:32:51 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-007.lcd
Vial: 3 | 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	Auto	3.621	390711	229327	10.48 35	ng/mL	101.00 >85.00	31.14	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.616	229327	229327	1.0000	ng/mL	----	----	

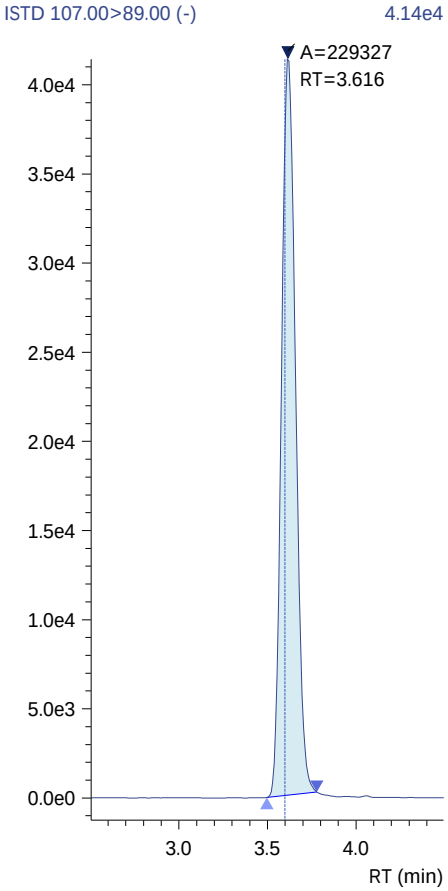
Perchlorate

Conc 10.4835
R#1 31.14 (32.02)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/29/2023 2:17:05 PM

PERCHLORATE8

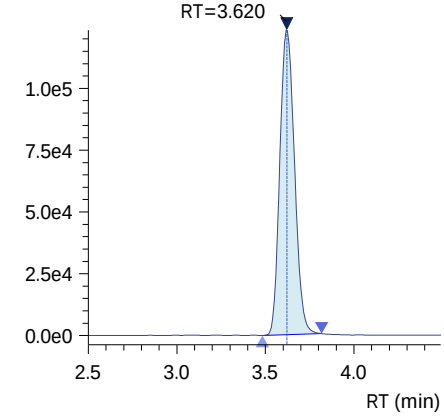
Sample ID: PERCHLORATE8
Date Acquired: 6/29/2023 1:38:22 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-008.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.620	710430	213093	20.5144	ng/mL	101.00 >85.00	31.25	22.41-41.62
Sodium Perchlorate-18O4_IS	Auto	3.615	213093	213093	1.0000	ng/mL	----	----	

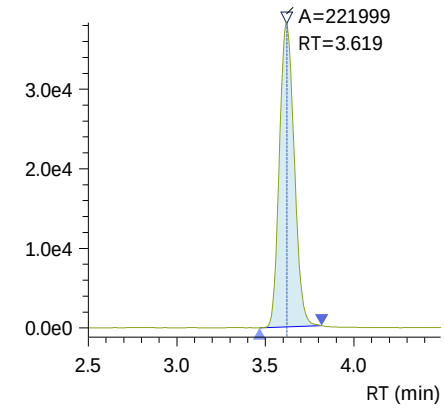
Perchlorate

Conc 20.5144
R#1 31.25 (32.02)

Q 99.00>83.00 (-) A=710430 RT=3.620 1.24e5



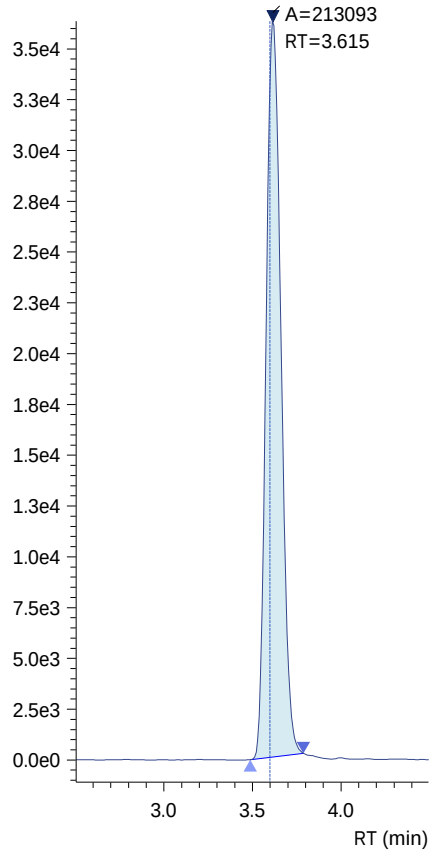
R1 101.00>85.00 (-) 3.84e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.64e4



Insight Report

Printed at 6/29/2023 2:17:05 PM

PERCHLORATE9

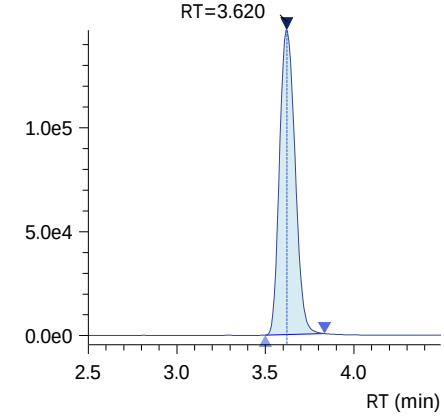
Sample ID: PERCHLORATE9
Date Acquired: 6/29/2023 1:43:53 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-009.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.620	896468	185851	29.6808	ng/mL	101.00 >85.00	31.06	22.41-41.62
Sodium Perchlorate-18O4_IS	Auto	3.614	185851	185851	1.0000	ng/mL	----	----	

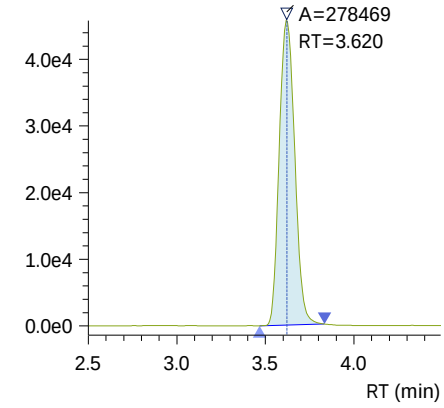
Perchlorate

Conc 29.6808
R#1 31.06 (32.02)

Q 99.00>83.00 (-) A=896468 RT=3.620 1.47e5



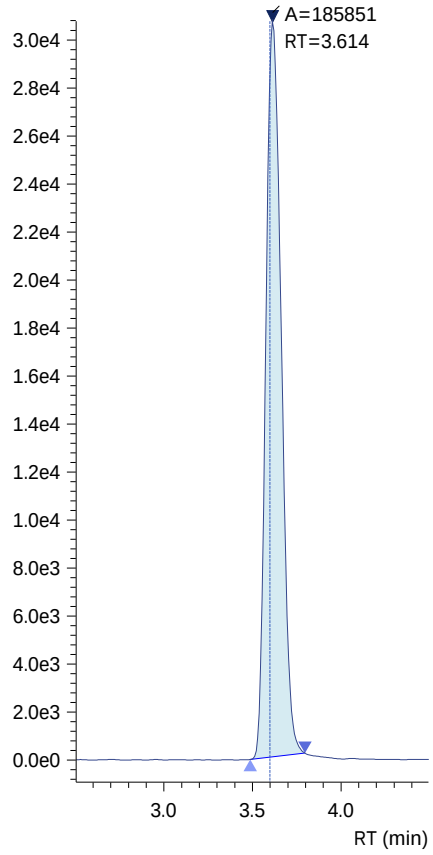
R1 101.00>85.00 (-) 4.58e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.08e4



Insight Report

Printed at 6/29/2023 2:17:05 PM

PERCHLORATE10

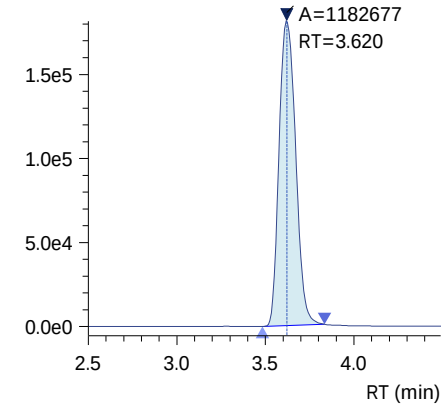
Sample ID: PERCHLORATE10
Date Acquired: 6/29/2023 1:49:27 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-010.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.620	1182677	146135	49.79 86	ng/mL	101.00 >85.00	30.89	22.41-41.62
Sodium Perchlorate-18O4_IS	Auto	3.614	146135	146135	1.0000	ng/mL	----	----	

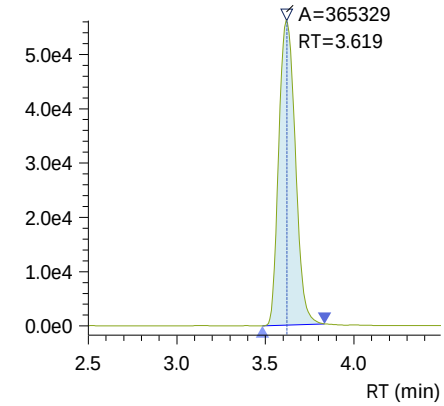
Perchlorate

Conc 49.7986
R#1 30.89 (32.02)

Q 99.00>83.00 (-) 1.82e5



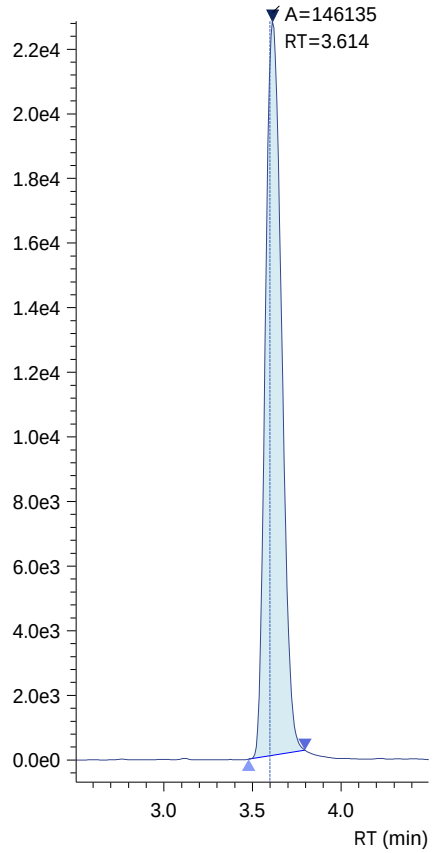
R1 101.00>85.00 (-) 5.62e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.29e4



Insight Report

Printed at 6/29/2023 2:17:05 PM

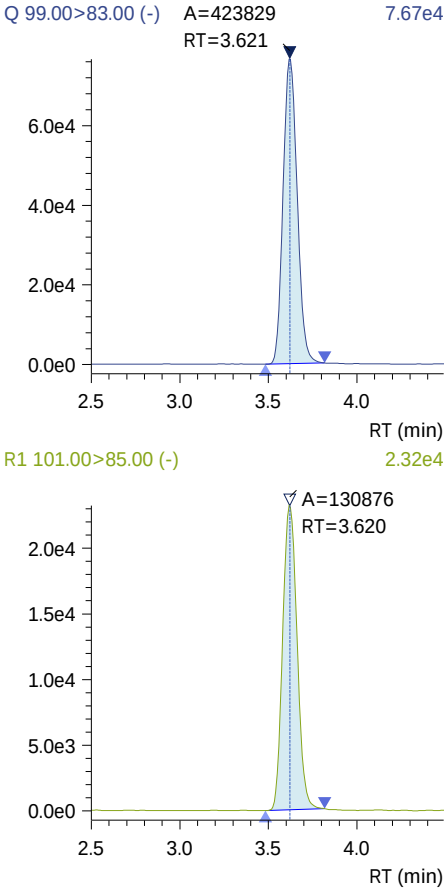
PERCHLORATEICV

Sample ID: PERCHLORATEICV
Date Acquired: 6/29/2023 1:55:00 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-011.lcd
Vial: 11 | 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	3.621	423829	263091	9.9127	ng/mL	101.00 >85.00	30.88	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.617	263091	263091	1.0000	ng/mL	----	----	

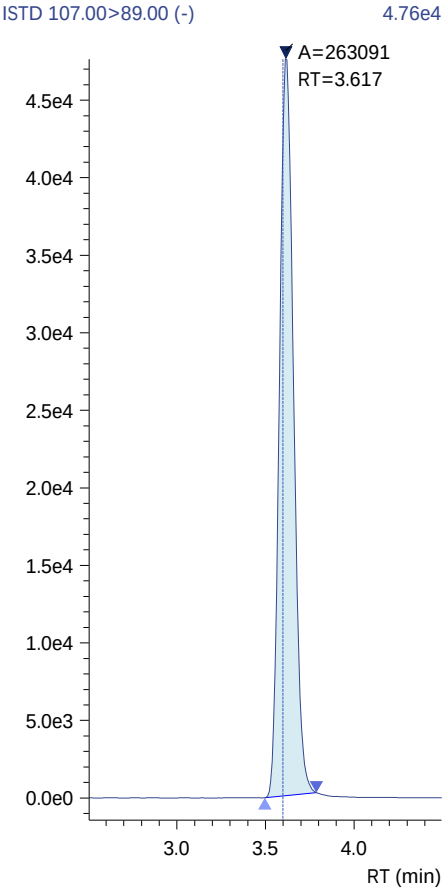
Perchlorate

Conc 9.9127
R#1 30.88 (32.02)



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

20230629-809329

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XM
2nd Review: GC

ICAL Date: 6/29/2023
Cal. Std. xp: 06/29/2023
ICAL ID: EC2300011

Mobile Phases : A:20mM ammonium acetate in water 32103046 **B:**Acetonitrile 226552

	Sample Name		File Name	Acquisition Method	Dilution	Comments	Date/Time
1	PERCHLORATE1		20230629-001	Perchlorate6850c.lcm	1x	227245	6/29/2023 12:59
2	PERCHLORATE2		20230629-002	Perchlorate6850c.lcm	1x	227246	6/29/2023 13:05
3	PERCHLORATE3		20230629-003	Perchlorate6850c.lcm	1x	227247	6/29/2023 13:10
4	PERCHLORATE4		20230629-004	Perchlorate6850c.lcm	1x	227248	6/29/2023 13:16
5	PERCHLORATE5		20230629-005	Perchlorate6850c.lcm	1x	227249	6/29/2023 13:21
6	PERCHLORATE6		20230629-006	Perchlorate6850c.lcm	1x	227250	6/29/2023 13:27
7	PERCHLORATE7		20230629-007	Perchlorate6850c.lcm	1x	227251	6/29/2023 13:32
8	PERCHLORATE8		20230629-008	Perchlorate6850c.lcm	1x	227252	6/29/2023 13:38
9	PERCHLORATE9		20230629-009	Perchlorate6850c.lcm	1x	227253	6/29/2023 13:43
10	PERCHLORATE10		20230629-010	Perchlorate6850c.lcm	1x	227254	6/29/2023 13:49
11	PERCHLORATEICV		20230629-011	Perchlorate6850c.lcm	1x	227256	6/29/2023 13:55
12	IB		20230629-012	Perchlorate6850c.lcm	1x		6/29/2023 14:00
13	LODV		20230629-013	Perchlorate6850c.lcm	1x	227501	6/29/2023 14:06
14	ICS		20230629-014	Perchlorate6850c.lcm	1x	32103024	6/29/2023 14:11
15	CCV		20230629-015	Perchlorate6850c.lcm	1x	227251	6/29/2023 14:17
16	EQ2300312-01		20230629-016	Perchlorate6850c.lcm	1x		6/29/2023 14:22
17	EQ2300312-02		20230629-017	Perchlorate6850c.lcm	1x	DNU-RR	6/29/2023 14:28
18	EQ2300312-03		20230629-018	Perchlorate6850c.lcm	1x		6/29/2023 14:33
19	E2300606-001		20230629-019	Perchlorate6850c.lcm	10x		6/29/2023 14:39
20	EQ2300312-04		20230629-020	Perchlorate6850c.lcm	1x		6/29/2023 14:44
21	EQ2300312-05		20230629-021	Perchlorate6850c.lcm	1x		6/29/2023 14:50
22	E2300606-002		20230629-022	Perchlorate6850c.lcm	5x		6/29/2023 14:55
23	E2300606-003		20230629-023	Perchlorate6850c.lcm	10x		6/29/2023 15:01
24	E2300606-004		20230629-024	Perchlorate6850c.lcm	10x		6/29/2023 15:06
25	E2300606-005		20230629-025	Perchlorate6850c.lcm	1x		6/29/2023 15:12
26	CCV		20230629-026	Perchlorate6850c.lcm	1x	227251	6/29/2023 15:17
27	E2300606-006		20230629-027	Perchlorate6850c.lcm	1x		6/29/2023 15:23
28	E2300606-007		20230629-028	Perchlorate6850c.lcm	500x		6/29/2023 15:28
29	E2300606-008		20230629-029	Perchlorate6850c.lcm	100x		6/29/2023 15:34
30	EQ2300312-06		20230629-030	Perchlorate6850c.lcm	100x		6/29/2023 15:40
31	EQ2300312-07		20230629-031	Perchlorate6850c.lcm	100x		6/29/2023 15:45
32	E2300606-009		20230629-032	Perchlorate6850c.lcm	1x		6/29/2023 15:53
33	E2300610-001		20230629-033	Perchlorate6850c.lcm	10000x		6/29/2023 15:58
34	E2300610-002		20230629-034	Perchlorate6850c.lcm	1x		6/29/2023 16:04
35	E2300610-003		20230629-035	Perchlorate6850c.lcm	1x		6/29/2023 16:09
36	E2300610-004		20230629-036	Perchlorate6850c.lcm	1x		6/29/2023 16:15
37	CCV		20230629-037	Perchlorate6850c.lcm	1x	227251	6/29/2023 16:21

20230629-809329

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XM
2nd Review: GC

ICAL Date: 6/29/2023
Cal. Std. xp: 06/29/2023
ICAL ID: EC2300011

Mobile Phases : A:20mM ammonium acetate in water 32103046 **B:**Acetonitrile 226552

	Sample Name		File Name	Acquisition Method	Dilution	Comments	Date/Time
38	E2300610-005		20230629-038	Perchlorate6850c.lcm	1x		6/29/2023 16:26
39	E2300610-006		20230629-039	Perchlorate6850c.lcm	1x		6/29/2023 16:32
40	E2300610-007		20230629-040	Perchlorate6850c.lcm	1x		6/29/2023 16:37
41	E2300610-008		20230629-041	Perchlorate6850c.lcm	1x	DNU-D	6/29/2023 16:43
42	EQ2300312-08		20230629-042	Perchlorate6850c.lcm	1x		6/29/2023 16:48
43	EQ2300312-09		20230629-043	Perchlorate6850c.lcm	1x		6/29/2023 16:54
44	E2300611-001		20230629-044	Perchlorate6850c.lcm	1x		6/29/2023 16:59
45	E2300611-002		20230629-045	Perchlorate6850c.lcm	1x		6/29/2023 17:05
46	E2300611-003		20230629-046	Perchlorate6850c.lcm	1x		6/29/2023 17:10
47	E2300611-004		20230629-047	Perchlorate6850c.lcm	1x	DNU-D	6/29/2023 17:16
48	CCV		20230629-048	Perchlorate6850c.lcm	1x	227251	6/29/2023 17:21
49	E2300611-005		20230629-049	Perchlorate6850c.lcm	1x		6/29/2023 17:27
50	E2300611-006		20230629-050	Perchlorate6850c.lcm	1x	DNU-D	6/29/2023 17:32
51	E2300611-007		20230629-051	Perchlorate6850c.lcm	1x	DNU-D	6/29/2023 17:38
52	E2300611-008		20230629-052	Perchlorate6850c.lcm	1x		6/29/2023 17:43
53	E2300611-009		20230629-053	Perchlorate6850c.lcm	1x		6/29/2023 17:49
54	E2300611-010		20230629-054	Perchlorate6850c.lcm	1x		6/29/2023 17:55
55	CCV		20230629-055	Perchlorate6850c.lcm	1x	227251	6/29/2023 18:06

20230630-809342

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XM
2nd Review: GC

ICAL Date: 6/29/2023
Cal. Std. xp: 06/29/2023
ICAL ID: EC2300011

Mobile Phases : A:20mM ammonium acetate in water 32103046 **B:**Acetonitrile 226552

	Sample Name		File Name	Acquisition Method	Dilution	Comments	Date/Time
1	IB		20230630-001	Perchlorate6850c.lcm	1x		6/30/2023 8:18
2	LODV		20230630-002	Perchlorate6850c.lcm	1x	227501	6/30/2023 8:29
3	ICS		20230630-003	Perchlorate6850c.lcm	1x	32103024	6/30/2023 8:23
4	CCV		20230630-004	Perchlorate6850c.lcm	1x	227251	6/30/2023 8:34
5	E2300610-008		20230630-005	Perchlorate6850c.lcm	100x		6/30/2023 8:48
6	E2300611-004		20230630-006	Perchlorate6850c.lcm	1000x		6/30/2023 8:54
7	E2300611-006		20230630-007	Perchlorate6850c.lcm	2x		6/30/2023 8:59
8	E2300611-007		20230630-008	Perchlorate6850c.lcm	2x		6/30/2023 9:06
9	EQ2300312-02		20230630-009	Perchlorate6850c.lcm	1x		6/30/2023 9:12
10	E2300614-001		20230630-010	Perchlorate6850c.lcm	100x		6/30/2023 9:17
11	E2300614-002		20230630-011	Perchlorate6850c.lcm	100x		6/30/2023 9:23
12	E2300614-003		20230630-012	Perchlorate6850c.lcm	1000x	DNU-D	6/30/2023 9:28
13	EQ2300317-04		20230630-013	Perchlorate6850c.lcm	1x		6/30/2023 9:34
14	EQ2300317-05		20230630-014	Perchlorate6850c.lcm	1x		6/30/2023 9:39
15	CCV		20230630-015	Perchlorate6850c.lcm	1x	227251	6/30/2023 9:47
16	E2300614-004		20230630-016	Perchlorate6850c.lcm	100x		6/30/2023 9:53
17	E2300614-005		20230630-017	Perchlorate6850c.lcm	1x	DNU-RR	6/30/2023 9:58
18	EQ2300317-06		20230630-018	Perchlorate6850c.lcm	1x		6/30/2023 10:04
19	EQ2300317-07		20230630-019	Perchlorate6850c.lcm	1x		6/30/2023 10:09
20	E2300614-006		20230630-020	Perchlorate6850c.lcm	1x		6/30/2023 10:15
21	E2300614-007		20230630-021	Perchlorate6850c.lcm	1x		6/30/2023 10:20
22	E2300614-008		20230630-022	Perchlorate6850c.lcm	1x		6/30/2023 10:26
23	E2300614-009		20230630-023	Perchlorate6850c.lcm	1x		6/30/2023 10:31
24	E2300616-001		20230630-024	Perchlorate6850c.lcm	100x		6/30/2023 10:40
25	E2300616-002		20230630-025	Perchlorate6850c.lcm	1x		6/30/2023 10:46
26	CCV		20230630-026	Perchlorate6850c.lcm	1x	227251	6/30/2023 10:51
27	E2300616-003		20230630-027	Perchlorate6850c.lcm	100x		6/30/2023 10:57
28	E2300616-004		20230630-028	Perchlorate6850c.lcm	100x		6/30/2023 11:02
29	E2300616-005		20230630-029	Perchlorate6850c.lcm	100x		6/30/2023 11:08
30	E2300616-006		20230630-030	Perchlorate6850c.lcm	100x		6/30/2023 11:13
31	E2300614-003		20230630-031	Perchlorate6850c.lcm	2000x		6/30/2023 11:19
32	E2300614-005		20230630-032	Perchlorate6850c.lcm	1x		6/30/2023 11:24
33	CCV		20230630-033	Perchlorate6850c.lcm	1x	227251	6/30/2023 11:30

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300611
Project:	HS23061707	**Date Analyzed:**	6/29/23 14:17

Internal Standard Area and RT Summary

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

File ID:	I:\LCMS01\DATA\20230629\20230629-015	**Lab Code:**	EQ2300321-01
Instrument ID:	E-LCMS-01	**Analysis Lot:**	809329
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	263,382	3.62
	Upper Limit ==>	395,073	5.62
	Lower Limit ==>	131,691	1.62
Associated Analyses			
Continuing Calibration Verification	EQ2300321-01	238,012	3.62
Method Blank	EQ2300312-01	348,015	3.62
Duplicate Lab Control Sample	EQ2300312-03	351,322	3.62

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300611
Project:	HS23061707	**Date Analyzed:**	6/29/23 15:17

Internal Standard Area and RT Summary

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

File ID:	I:\LCMS01\DATA\20230629\20230629-026	**Lab Code:**	EQ2300321-02
Instrument ID:	E-LCMS-01	**Analysis Lot:**	809329
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	263,382	3.62
	Upper Limit ==>	395,073	5.62
	Lower Limit ==>	131,691	1.62
Associated Analyses			
Continuing Calibration Verification	EQ2300321-02	239,571	3.62

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: HS23061707

Service Request: E2300611
Date Analyzed: 6/29/23 16:21

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

File ID: I:\LCMS01\DATA\20230629\20230629-037
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2300321-03
Analysis Lot: 809329
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	263,382	3.62
	Upper Limit ==>	395,073	5.62
	Lower Limit ==>	131,691	1.62
Associated Analyses			
Continuing Calibration Verification	EQ2300321-03	238,637	3.62
18WW19_062323	E2300611-001	330,954	3.62
18WW19_062323_a	E2300611-002	354,529	3.62
18WW20_062323	E2300611-003	314,488	3.62

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: HS23061707

Service Request: E2300611
Date Analyzed: 6/29/23 17:21

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

File ID: I:\LCMS01\DATA\20230629\20230629-048
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2300321-04
Analysis Lot: 809329
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	263,382	3.62
	Upper Limit ==>	395,073	5.62
	Lower Limit ==>	131,691	1.62
Associated Analyses			
Continuing Calibration Verification	EQ2300321-04	234,102	3.62
18WW09_062323	E2300611-005	322,358	3.62
MW18_062323	E2300611-008	324,935	3.62
MW19_062323	E2300611-009	312,297	3.62
18CPTMW26SW_062323	E2300611-010	297,104	3.62

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300611
Project:	HS23061707	**Date Analyzed:**	6/29/23 18:06

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

File ID:	I:\LCMS01\DATA\20230629\20230629-055	**Lab Code:**	EQ2300321-05
Instrument ID:	E-LCMS-01	**Analysis Lot:**	809329
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	263,382	3.62
	Upper Limit ==>	395,073	5.62
	Lower Limit ==>	131,691	1.62
Associated Analyses			
Continuing Calibration Verification	EQ2300321-05	220,393	3.62

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: HS23061707

Service Request: E2300611
Date Analyzed: 6/30/23 08:34

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

File ID: I:\LCMS01\DATA\20230630\20230630-004
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2300322-01
Analysis Lot: 809342
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	263,382	3.62
	Upper Limit ==>	395,073	5.62
	Lower Limit ==>	131,691	1.62
Associated Analyses			
Continuing Calibration Verification	EQ2300322-01	242,810	3.62
18WW08_062323	E2300611-004	291,302	3.62
18PTW15_062323	E2300611-006	213,003	3.65
18PTW15_062323_a	E2300611-007	213,400	3.62
Lab Control Sample	EQ2300312-02	359,941	3.62

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300611
Project:	HS23061707	**Date Analyzed:**	6/30/23 09:47

Internal Standard Area and RT Summary

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

File ID:	I:\LCMS01\DATA\20230630\20230630-015	**Lab Code:**	EQ2300322-02
Instrument ID:	E-LCMS-01	**Analysis Lot:**	809342
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	263,382	3.62
	Upper Limit ==>	395,073	5.62
	Lower Limit ==>	131,691	1.62
Associated Analyses			
Continuing Calibration Verification	EQ2300322-02	257,568	3.63

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300611
Project:	HS23061707	**Date Analyzed:**	6/30/23 10:51

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

File ID:	I:\LCMS01\DATA\20230630\20230630-026	**Lab Code:**	EQ2300322-03
Instrument ID:	E-LCMS-01	**Analysis Lot:**	809342
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	263,382	3.62
	Upper Limit ==>	395,073	5.62
	Lower Limit ==>	131,691	1.62
Associated Analyses			
Continuing Calibration Verification	EQ2300322-03	239,697	3.62

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300611
Project:	HS23061707	**Date Analyzed:**	6/30/23 11:30

Internal Standard Area and RT Summary

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

File ID:	I:\LCMS01\DATA\20230630\20230630-033	**Lab Code:**	EQ2300322-04
Instrument ID:	E-LCMS-01	**Analysis Lot:**	809342
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	263,382	3.62
	Upper Limit ==>	395,073	5.62
	Lower Limit ==>	131,691	1.62
Associated Analyses			
Continuing Calibration Verification	EQ2300322-04	247,134	3.62

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: HS23061707

Service Request: E2300611
Date Analyzed: 6/29/23

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\20230629\20230629-015

Calibration Date: 6/29/23
Calibration ID: EC2300011
Analysis Lot: 809329
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.5	0.1625	0.1707	5.1	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23061707

Service Request: E2300611
Date Analyzed: 6/29/23

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\20230629\20230629-026

Calibration Date: 6/29/23
Calibration ID: EC2300011
Analysis Lot: 809329
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.4	0.1625	0.1694	4.2	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23061707

Service Request: E2300611
Date Analyzed: 6/29/23

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\20230629\20230629-037

Calibration Date: 6/29/23
Calibration ID: EC2300011
Analysis Lot: 809329
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.4	0.1625	0.1683	3.6	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23061707

Service Request: E2300611
Date Analyzed: 6/29/23

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\20230629\20230629-048

Calibration Date: 6/29/23
Calibration ID: EC2300011
Analysis Lot: 809329
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.5	0.1625	0.1707	5.0	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23061707

Service Request: E2300611
Date Analyzed: 6/29/23

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\20230629\20230629-055

Calibration Date: 6/29/23
Calibration ID: EC2300011
Analysis Lot: 809329
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.6	0.1625	0.1717	5.6	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23061707

Service Request: E2300611
Date Analyzed: 6/30/23

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\20230630\20230630-004

Calibration Date: 6/29/23
Calibration ID: EC2300011
Analysis Lot: 809342
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.1	0.1625	0.1646	1.3	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23061707

Service Request: E2300611
Date Analyzed: 6/30/23

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\20230630\20230630-015

Calibration Date: 6/29/23
Calibration ID: EC2300011
Analysis Lot: 809342
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.5	0.1625	0.1707	5.0	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23061707

Service Request: E2300611
Date Analyzed: 6/30/23

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\20230630\20230630-026

Calibration Date: 6/29/23
Calibration ID: EC2300011
Analysis Lot: 809342
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.7	0.1625	0.1736	6.8	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23061707

Service Request: E2300611
Date Analyzed: 6/30/23

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\20230630\20230630-033

Calibration Date: 6/29/23
Calibration ID: EC2300011
Analysis Lot: 809342
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.6	0.1625	0.1715	5.5	NA	± 15 %	Average RF

Insight Report

Printed at 6/30/2023 9:58:41 AM

Method File: I:\LCMS01\DATA\20230629\20230629.lcm
Project File: I:\LCMS01\DATA\20230628\20230629.damlp

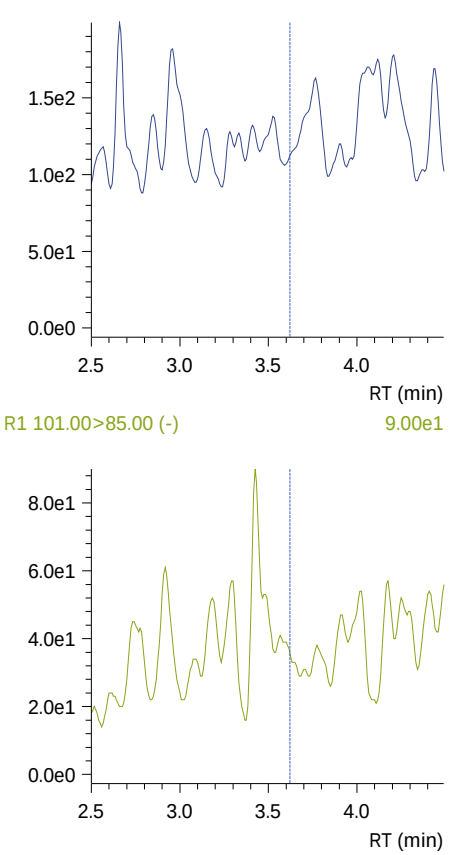
IB

Sample ID: IB
Date Acquired: 6/29/2023 2:00:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-012.lcd
Vial: 4 | 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)	----	----	334149	----	ng/mL	101.00 >85.00	0.00	21.29-39.54
Sodium Perchlorate-18O4_IS	Auto	3.617	334149	334149	1.0000	ng/mL	----	----	

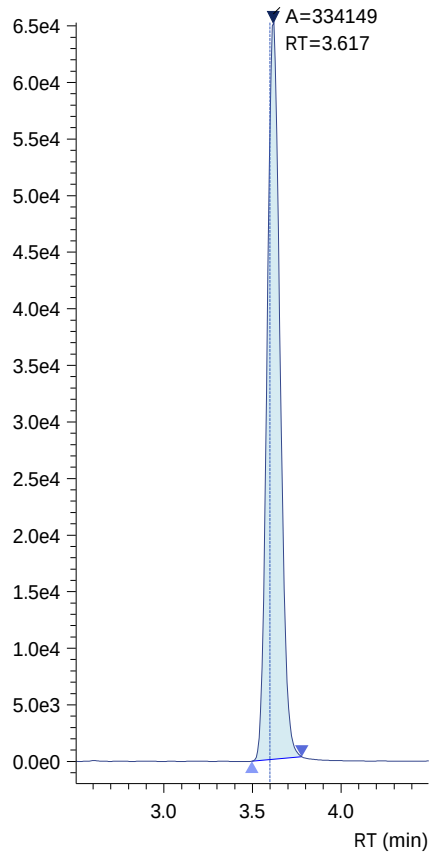
Perchlorate

Conc ----
R#1 0.00 (30.41)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 9:58:41 AM

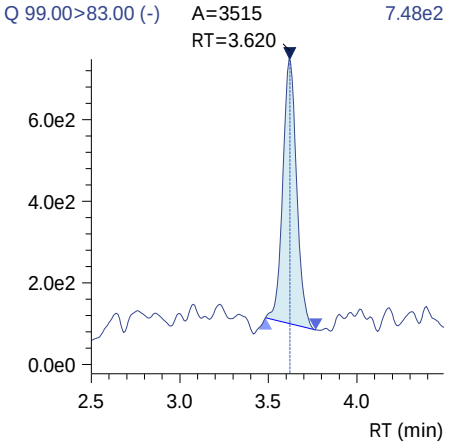
LODV

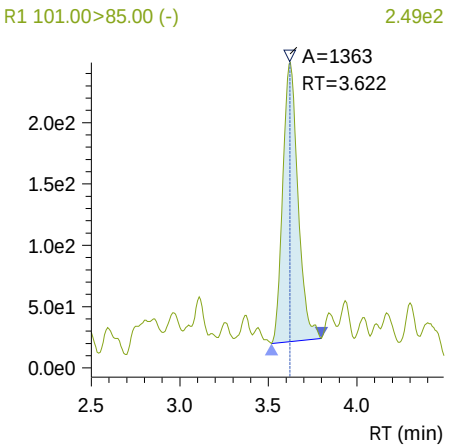
Sample ID: LODV
Date Acquired: 6/29/2023 2:06:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-013.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.620	3515	339644	0.0637	ng/mL	101.00 >85.00	38.76	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.616	339644	339644	1.0000	ng/mL	----	----	

Perchlorate

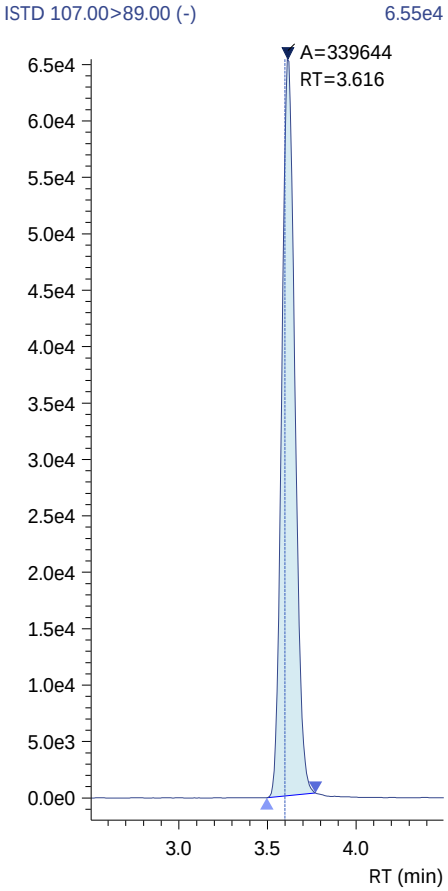
Conc 0.0637
R#1 38.76 (30.41)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 9:58:41 AM

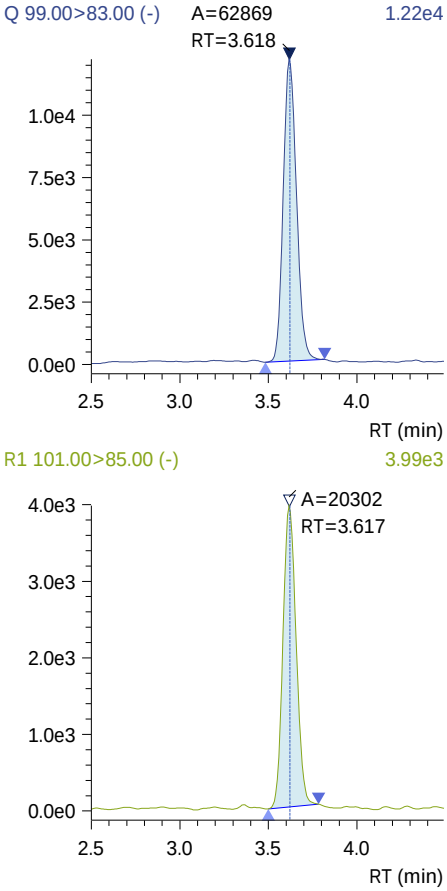
ICS

Sample ID: ICS
Date Acquired: 6/29/2023 2:11:34 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-014.lcd
Vial: 2 | 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	Auto	3.618	62869	368612	1.0495	ng/mL	101.00 >85.00	32.29	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.618	368612	368612	1.0000	ng/mL	----	----	

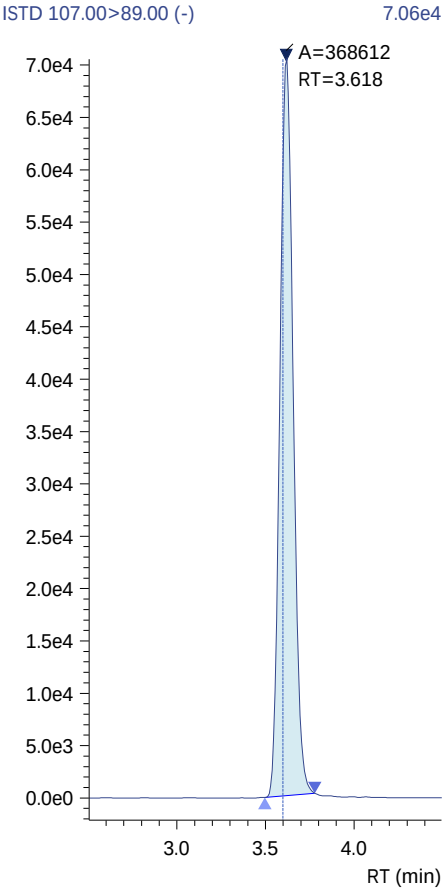
Perchlorate

Conc 1.0495
R#1 32.29 (30.41)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 9:58:41 AM

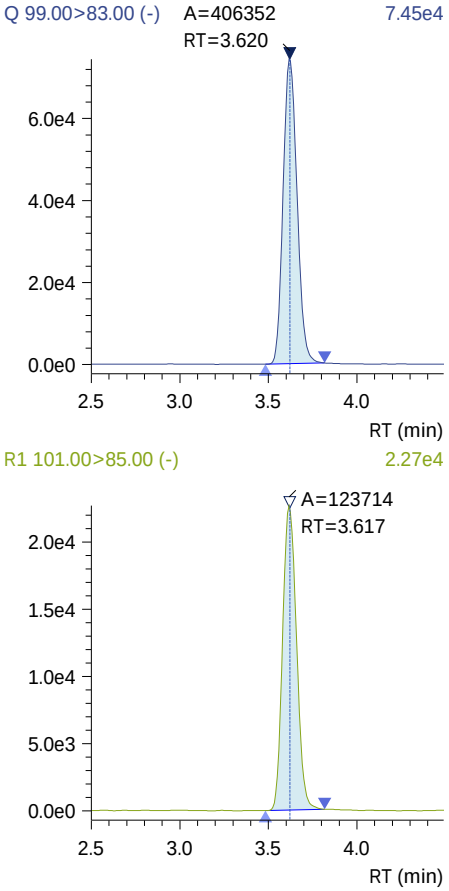
CCV

Sample ID: CCV
Date Acquired: 6/29/2023 2:17:04 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-015.lcd
Vial: 3 | 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	Auto	3.620	406352	238012	10.5053	ng/mL	101.00 >85.00	30.45	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.616	238012	238012	1.0000	ng/mL	----	----	

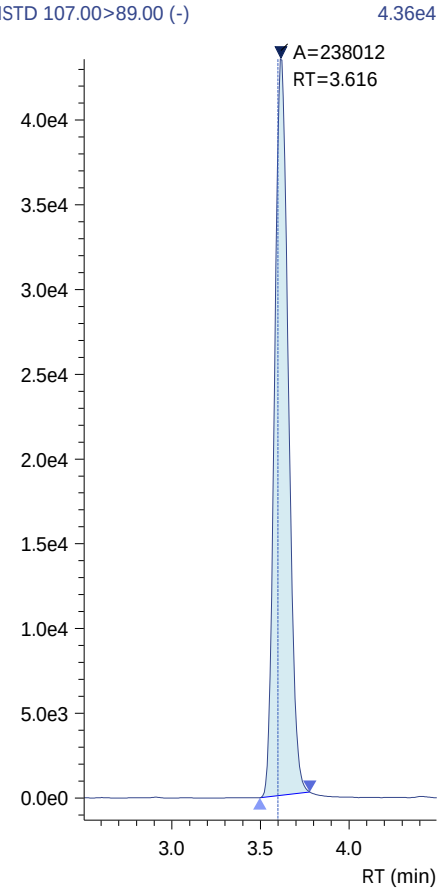
Perchlorate

Conc 10.5053
R#1 30.45 (30.41)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 9:58:41 AM

EQ2300312-01

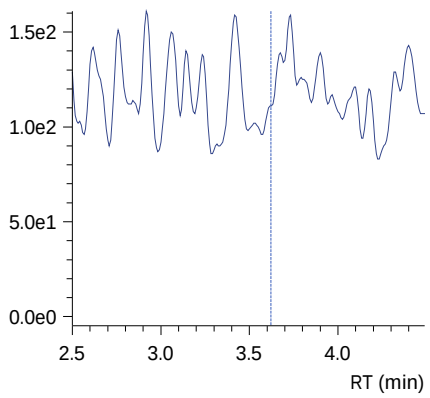
Sample ID: EQ2300312-01
Date Acquired: 6/29/2023 2:22:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-016.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	348015	----	ng/mL	101.00 >85.00	0.00	21.29-39.54
Sodium Perchlorate-18O4_IS	Auto	3.615	348015	348015	1.0000	ng/mL	----	----	

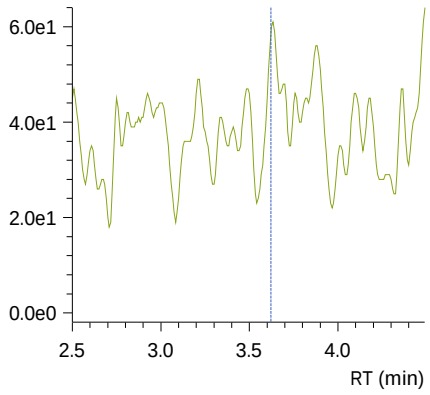
Perchlorate

Conc ----
R#1 0.00 (30.41)

Q 99.00>83.00 (-) 1.61e2



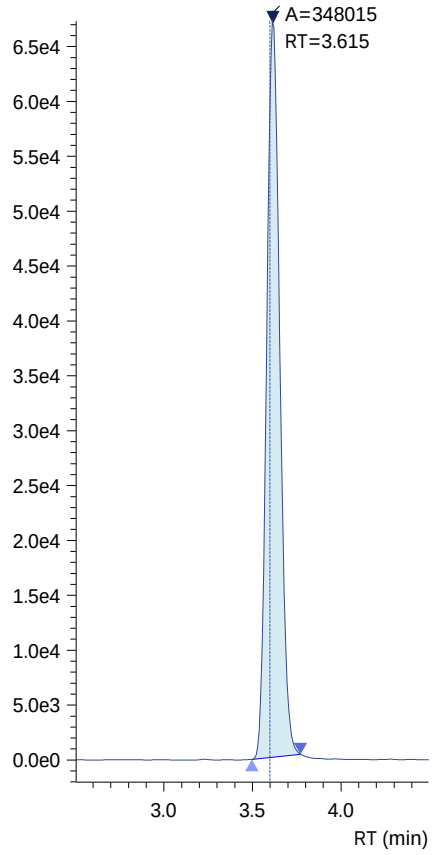
R1 101.00>85.00 (-) 6.40e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.73e4



Insight Report

Printed at 6/30/2023 9:58:41 AM

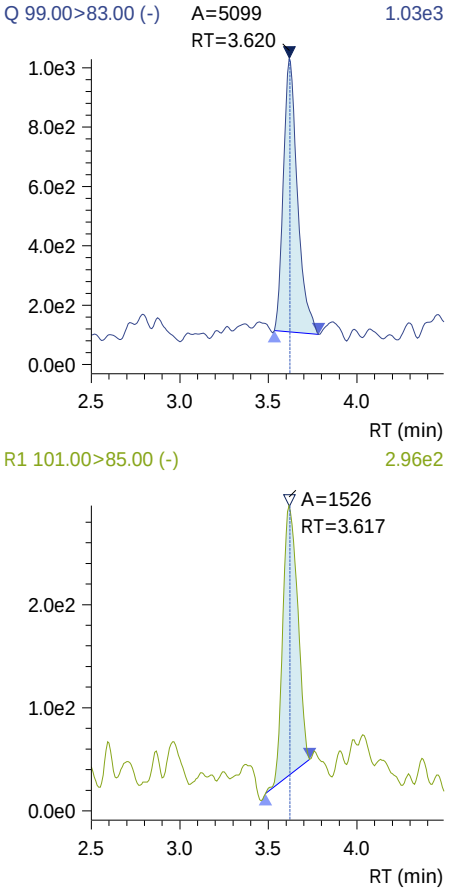
EQ2300312-03

Sample ID: EQ2300312-03
Date Acquired: 6/29/2023 2:33:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-018.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.620	5099	351322	0.0893	ng/mL	101.00 >85.00	29.92	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.616	351322	351322	1.0000	ng/mL	----	----	

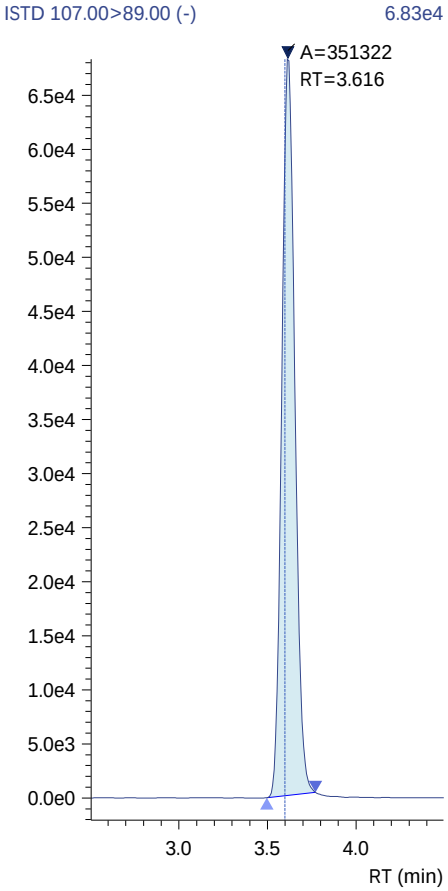
Perchlorate

Conc 0.0893
R#1 29.92 (30.41)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 9:58:41 AM

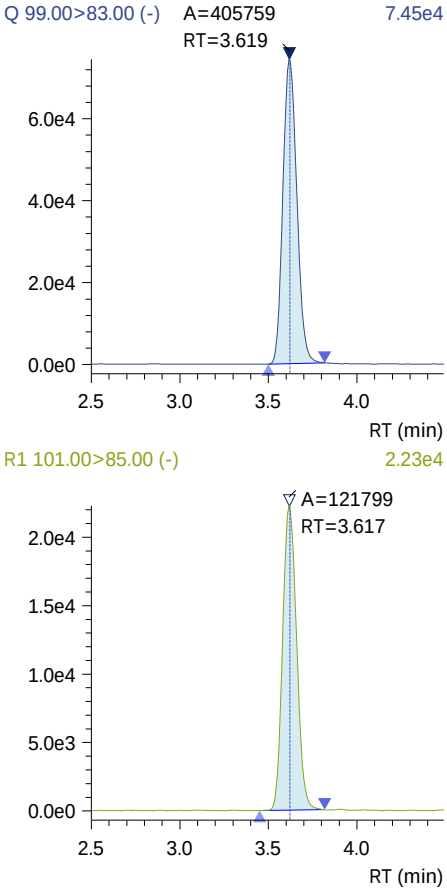
CCV

Sample ID: CCV
Date Acquired: 6/29/2023 3:17:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-026.lcd
Vial: 3 | 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	Auto	3.619	405759	239571	10.4217	ng/mL	101.00 >85.00	30.02	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.616	239571	239571	1.0000	ng/mL	----	----	

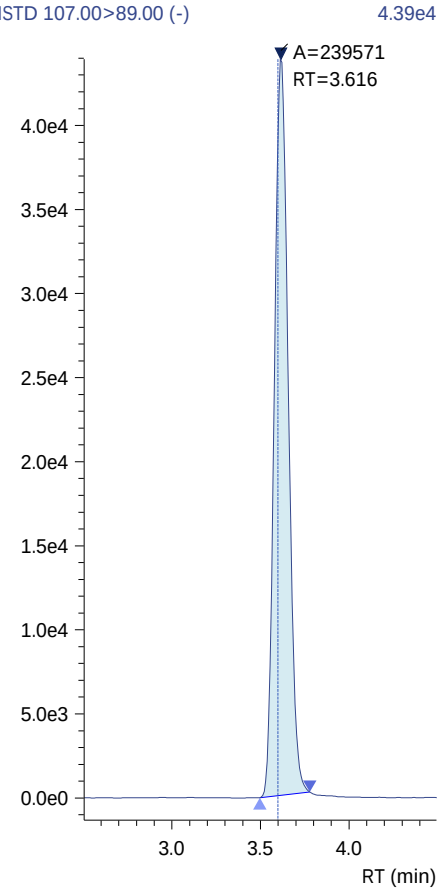
Perchlorate

Conc 10.4217
R#1 30.02 (30.41)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 9:58:41 AM

E2300611-001

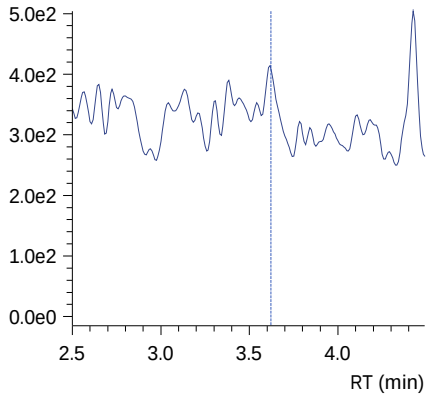
Sample ID: E2300611-001
Date Acquired: 6/29/2023 4:59:47 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-044.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	330954	----	ng/mL	101.00 >85.00	0.00	21.29-39.54
Sodium Perchlorate-18O4_IS	Auto	3.616	330954	330954	1.0000	ng/mL	----	----	

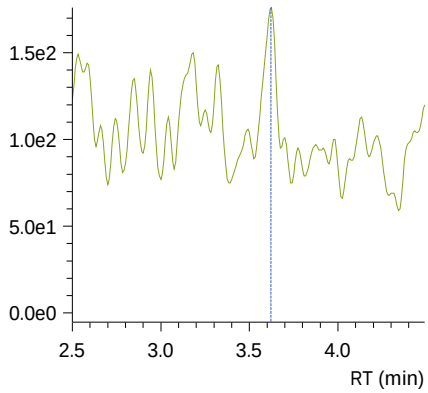
Perchlorate

Conc ----
R#1 0.00 (30.41)

Q 99.00>83.00 (-) 5.04e2



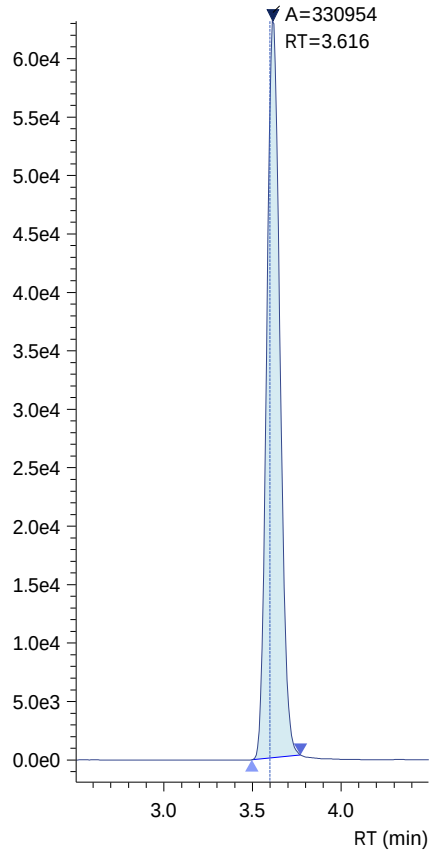
R1 101.00>85.00 (-) 1.76e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.32e4



Insight Report

Printed at 6/30/2023 9:58:41 AM

E2300611-002

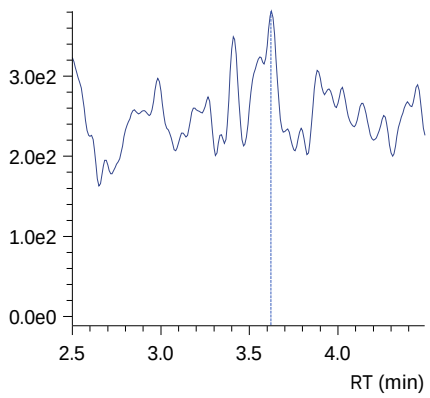
Sample ID: E2300611-002
Date Acquired: 6/29/2023 5:05:17 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-045.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	354529	----	ng/mL	101.00 >85.00	0.00	21.29-39.54
Sodium Perchlorate-18O4_IS	Auto	3.615	354529	354529	1.0000	ng/mL	----	----	

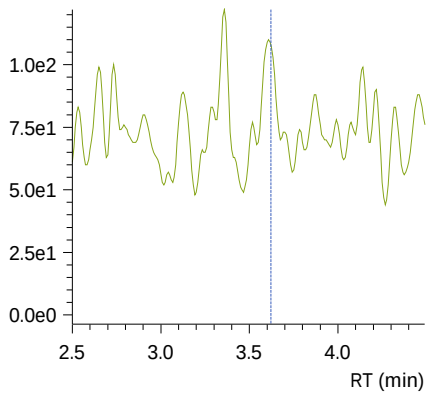
Perchlorate

Conc ----
R#1 0.00 (30.41)

Q 99.00>83.00 (-) 3.81e2



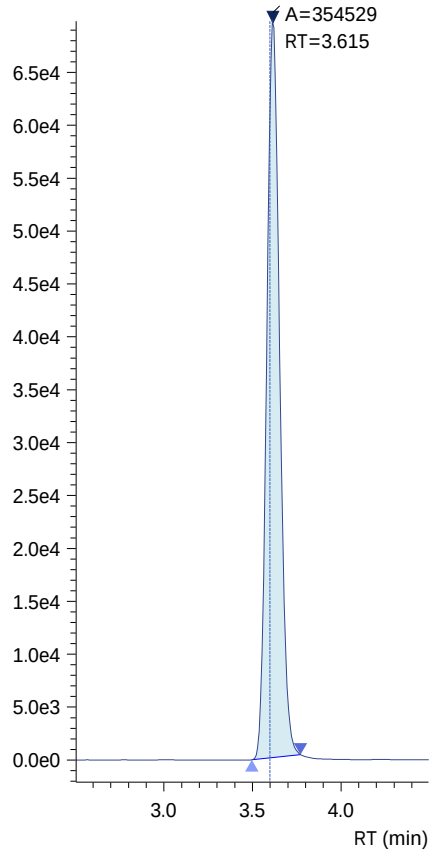
R1 101.00>85.00 (-) 1.22e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.98e4



Insight Report

Printed at 6/30/2023 9:58:41 AM

E2300611-003

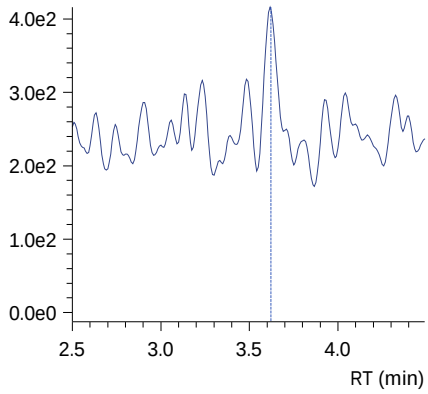
Sample ID: E2300611-003
Date Acquired: 6/29/2023 5:10:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-046.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	314488	----	ng/mL	101.00 >85.00	0.00	21.29-39.54
Sodium Perchlorate-18O4_IS	Auto	3.616	314488	314488	1.0000	ng/mL	----	----	

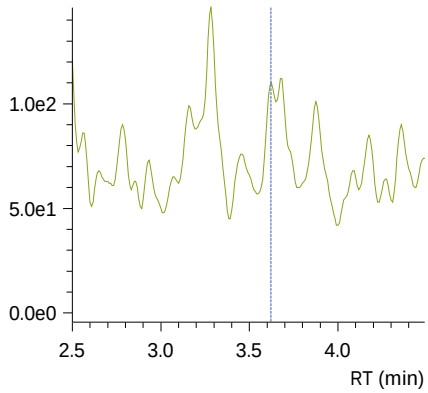
Perchlorate

Conc ----
R#1 0.00 (30.41)

Q 99.00>83.00 (-) 4.16e2



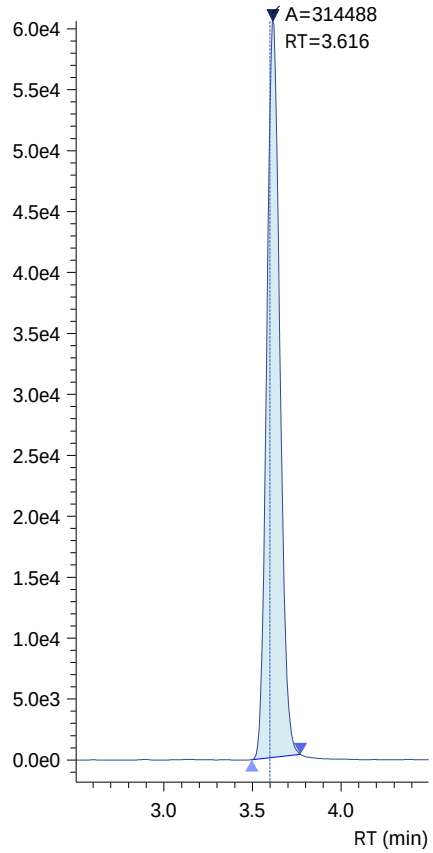
R1 101.00>85.00 (-) 1.46e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.06e4



Insight Report

Printed at 6/30/2023 9:58:41 AM

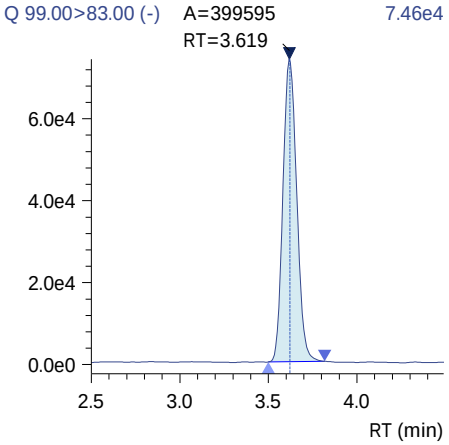
CCV

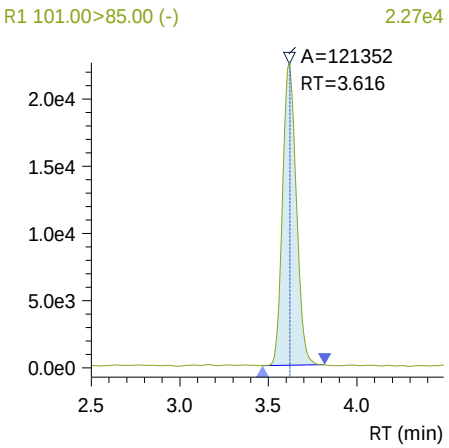
Sample ID: CCV
Date Acquired: 6/29/2023 5:21:54 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-048.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.619	399595	234102	10.5032	ng/mL	101.00 >85.00	30.37	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.615	234102	234102	1.0000	ng/mL	----	----	

Perchlorate

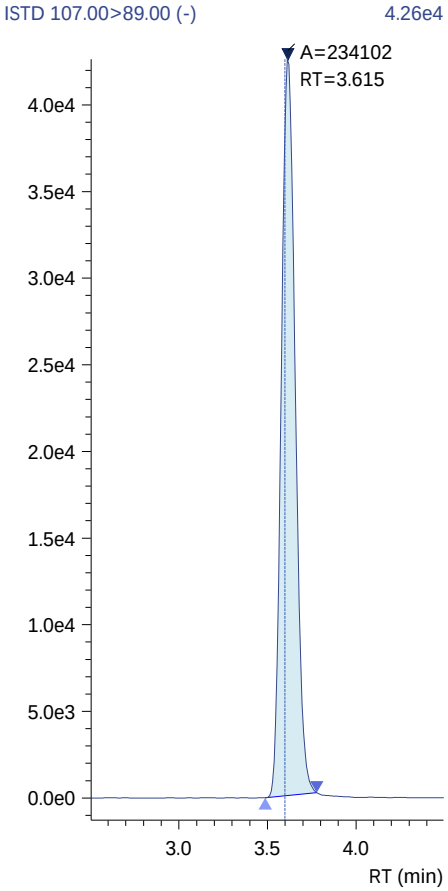
Conc 10.5032
R#1 30.37 (30.41)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 9:58:41 AM

E2300611-005

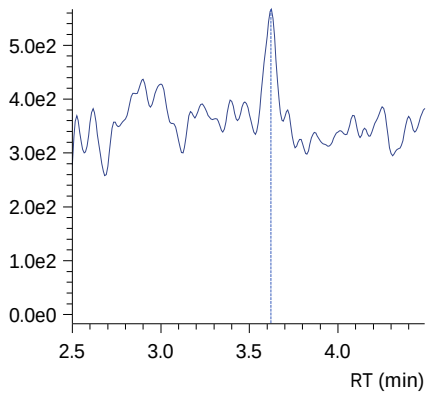
Sample ID: E2300611-005
Date Acquired: 6/29/2023 5:27:25 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-049.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	322358	----	ng/mL	101.00 >85.00	0.00	21.29-39.54
Sodium Perchlorate-18O4_IS	Auto	3.617	322358	322358	1.0000	ng/mL	----	----	

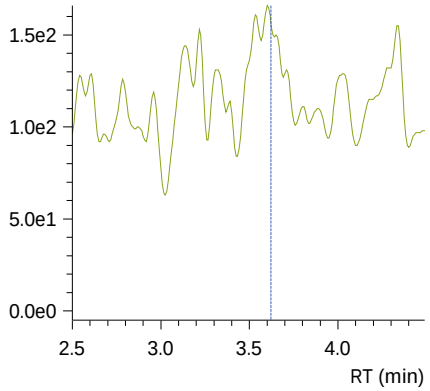
Perchlorate

Conc ----
R#1 0.00 (30.41)

Q 99.00>83.00 (-) 5.67e2



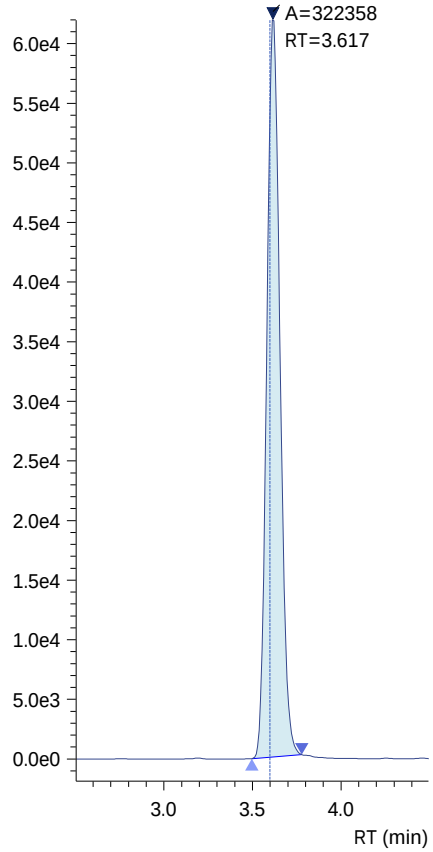
R1 101.00>85.00 (-) 1.66e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.20e4



Insight Report

Printed at 6/30/2023 9:58:41 AM

E2300611-008

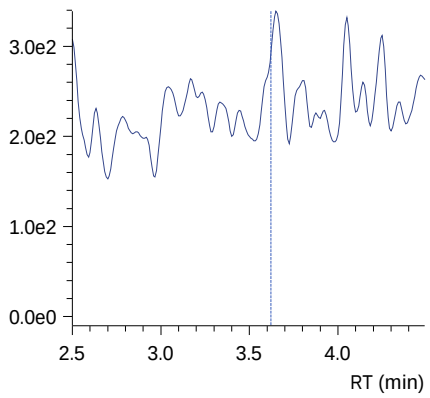
Sample ID: E2300611-008
Date Acquired: 6/29/2023 5:43:59 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-052.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	324935	----	ng/mL	101.00 >85.00	0.00	21.29-39.54
Sodium Perchlorate-18O4_IS	Auto	3.617	324935	324935	1.0000	ng/mL	----	----	

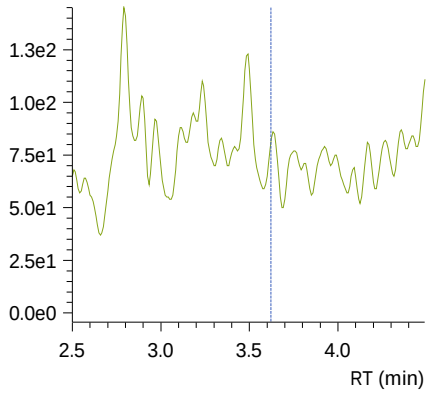
Perchlorate

Conc ----
R#1 0.00 (30.41)

Q 99.00>83.00 (-) 3.39e2



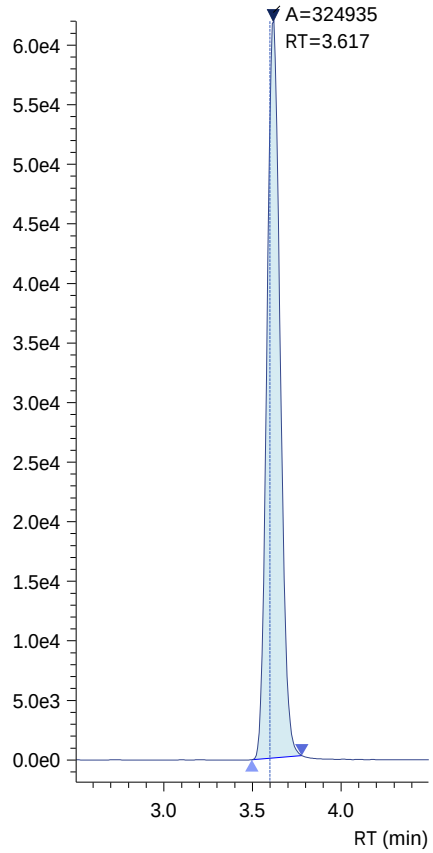
R1 101.00>85.00 (-) 1.45e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.20e4



Insight Report

Printed at 6/30/2023 9:58:41 AM

E2300611-009

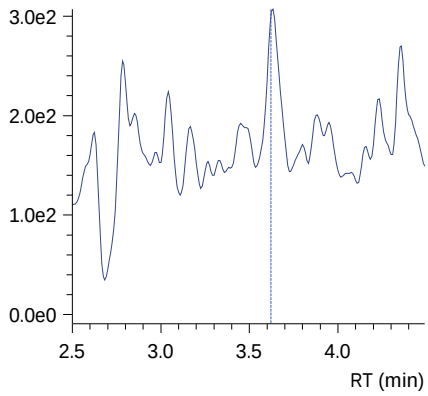
Sample ID: E2300611-009
Date Acquired: 6/29/2023 5:49:33 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-053.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	312297	----	ng/mL	101.00 >85.00	0.00	21.29-39.54
Sodium Perchlorate-18O4_IS	Auto	3.616	312297	312297	1.0000	ng/mL	----	----	

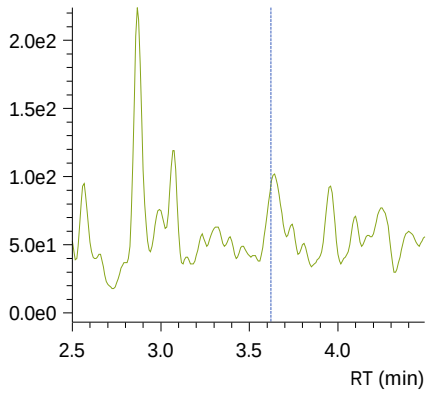
Perchlorate

Conc ----
R#1 0.00 (30.41)

Q 99.00>83.00 (-) 3.07e2



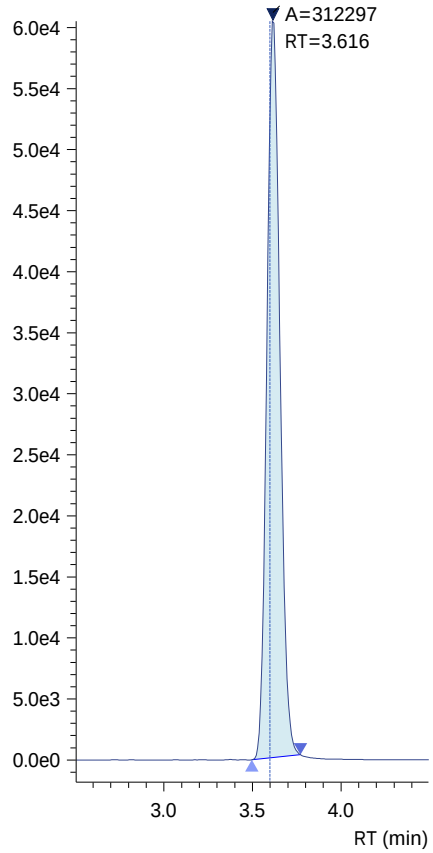
R1 101.00>85.00 (-) 2.24e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.05e4



Insight Report

Printed at 6/30/2023 9:58:41 AM

E2300611-010

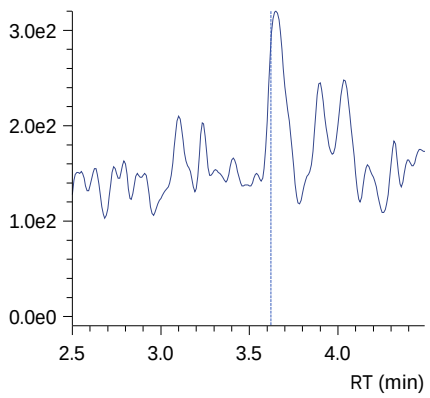
Sample ID: E2300611-010
Date Acquired: 6/29/2023 5:55:05 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-054.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	297104	----	ng/mL	101.00 >85.00	0.00	21.29-39.54
Sodium Perchlorate-18O4_IS	Auto	3.617	297104	297104	1.0000	ng/mL	----	----	

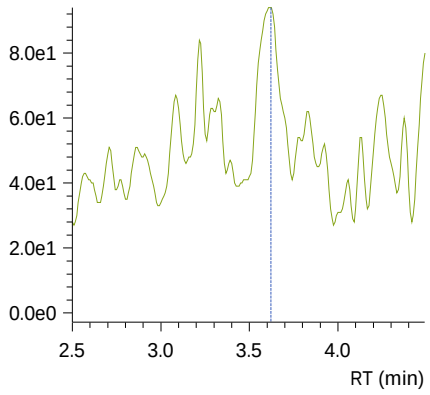
Perchlorate

Conc ----
R#1 0.00 (30.41)

Q 99.00>83.00 (-) 3.20e2



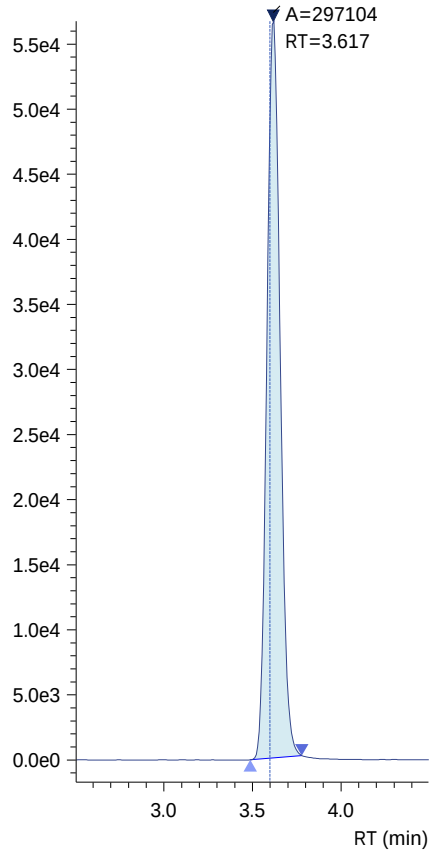
R1 101.00>85.00 (-) 9.40e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.68e4



Insight Report

Printed at 6/30/2023 9:58:41 AM

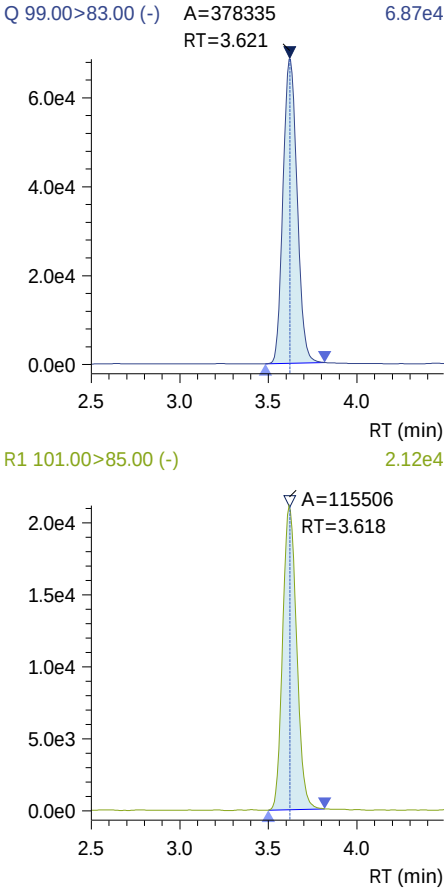
CCV

Sample ID: CCV
Date Acquired: 6/29/2023 6:06:06 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-055.lcd
Vial: 3 | 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	Auto	3.621	378335	220393	10.5629	ng/mL	101.00 >85.00	30.53	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.615	220393	220393	1.0000	ng/mL	----	----	

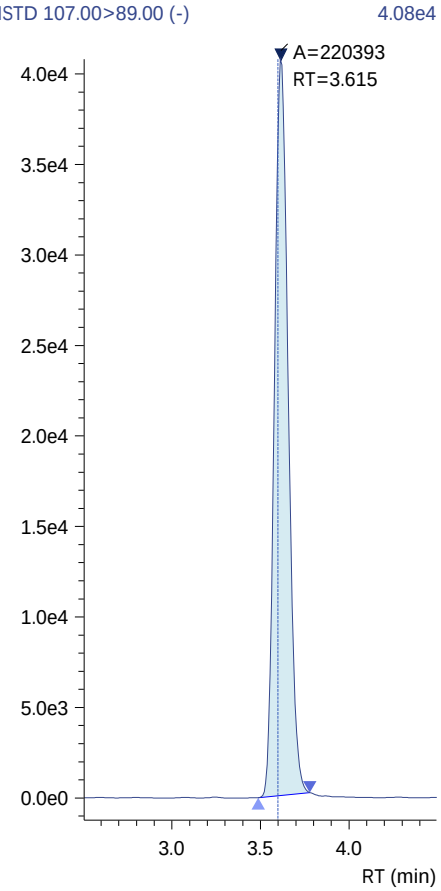
Perchlorate

Conc 10.5629
R#1 30.53 (30.41)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 9:58:41 AM

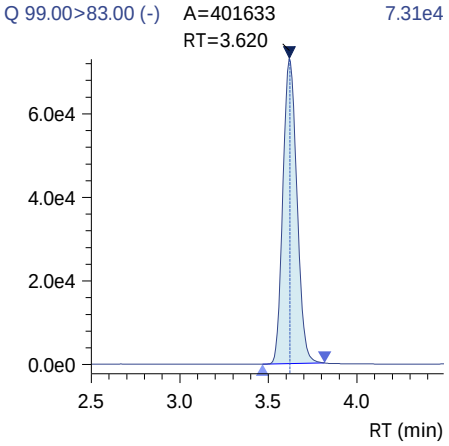
CCV

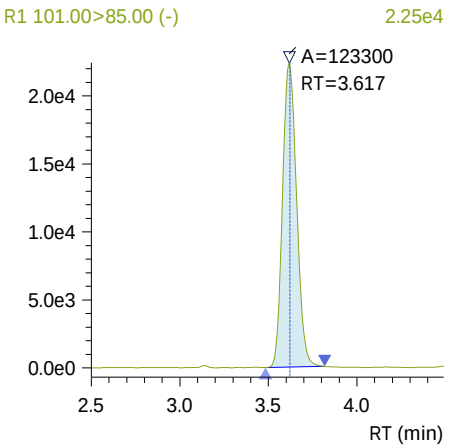
Sample ID: CCV
Date Acquired: 6/29/2023 4:21:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-037.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.620	401633	238637	10.3561	ng/mL	101.00 >85.00	30.70	21.29-39.54
Sodium Perchlorate-18O4_IS	Auto	3.616	238637	238637	1.0000	ng/mL	----	----	

Perchlorate

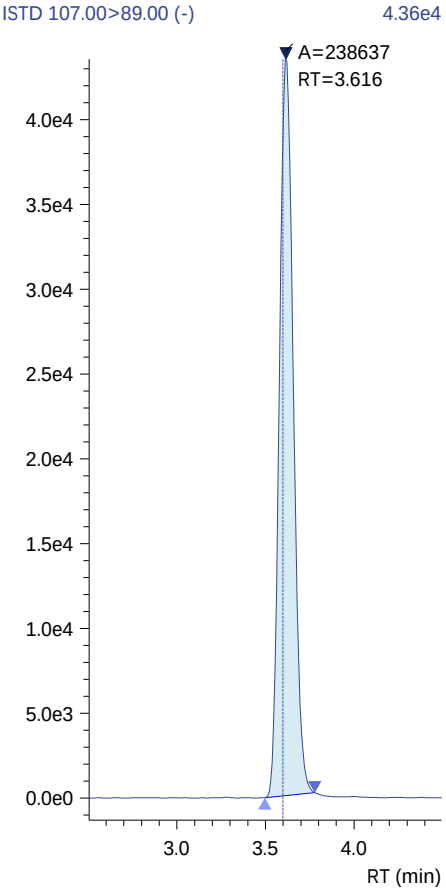
Conc 10.3561
R#1 30.70 (30.41)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 1:10:51 PM

Method File: I:\LCMS01\DATA\20230630\20230630.lcm
Project File: I:\LCMS01\DATA\20230630\20230630.damlp

IB

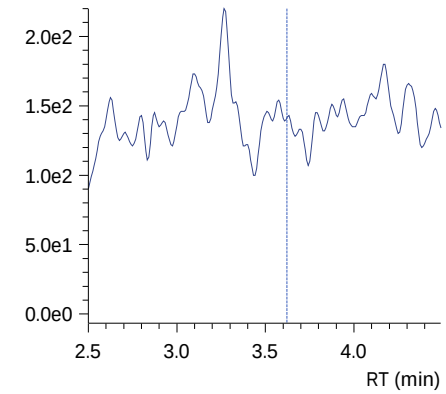
Sample ID: IB
Date Acquired: 6/30/2023 8:18:19 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230630\20230630-001.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	338673	----	ng/mL	101.00 >85.00	0.00	21.78 -40.45
Sodium Perchlorate-18O4_IS	Auto	3.626	338673	338673	1.0000	ng/mL	----	----	

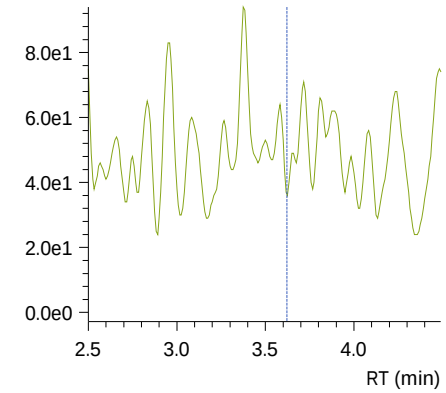
Perchlorate

Conc ----
R#1 0.00 (31.12)

Q 99.00>83.00 (-) 2.20e2



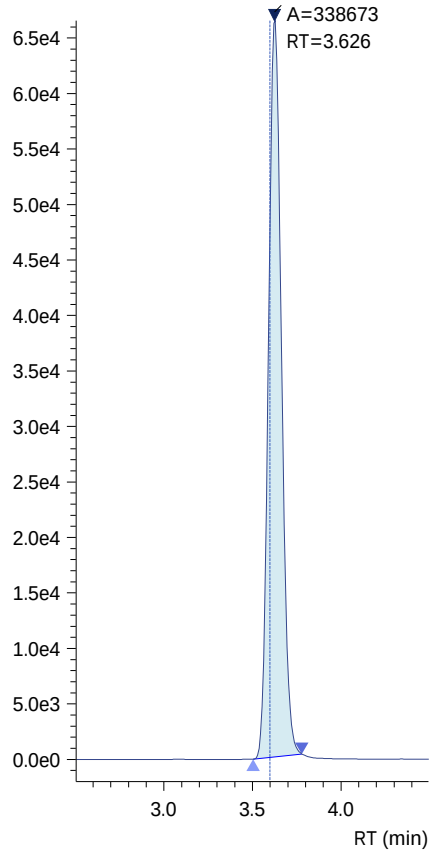
R1 101.00>85.00 (-) 9.40e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.66e4



Insight Report

Printed at 6/30/2023 1:10:51 PM

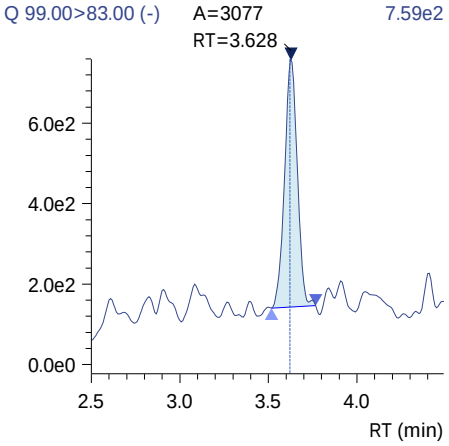
LODV

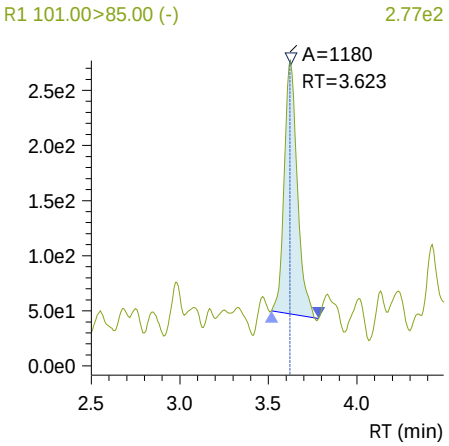
Sample ID: LODV
Date Acquired: 6/30/2023 8:29:21 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230630\20230630-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.628	3077	325731	0.0581	ng /mL	101.00 >85.00	38.34	21.78 -40.45
Sodium Perchlorate-18O4 _IS	Auto	3.621	325731	325731	1.0000	ng /mL	----	----	

Perchlorate

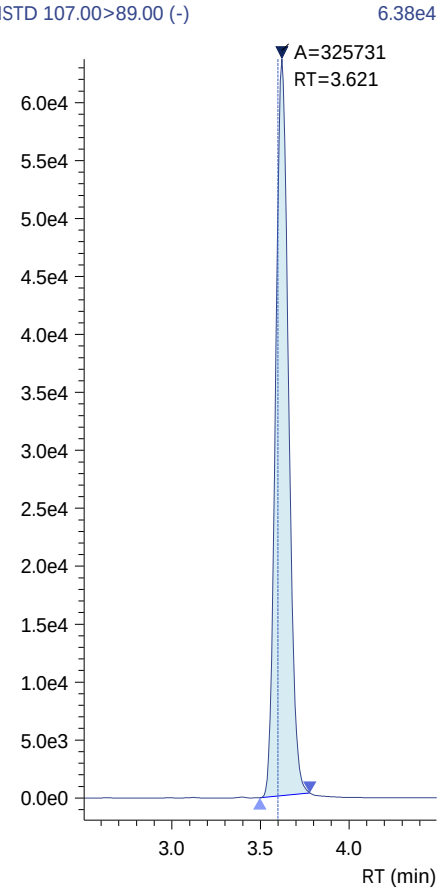
Conc 0.0581
R#1 38.34 (31.12)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 1:10:51 PM

ICS

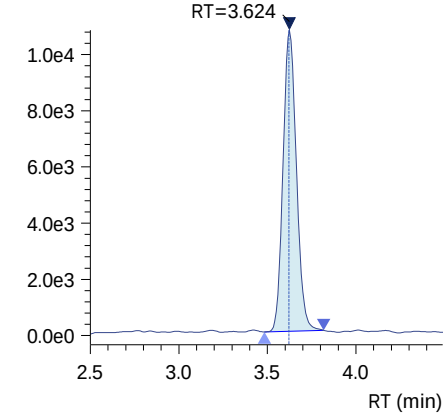
Sample ID: ICS
Date Acquired: 6/30/2023 8:23:50 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230630\20230630-003.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.624	56168	340515	1.0150	ng /mL	101.00 >85.00	34.57	21.78 -40.45
Sodium Perchlorate-18O4_IS	Auto	3.621	340515	340515	1.0000	ng /mL	----	----	

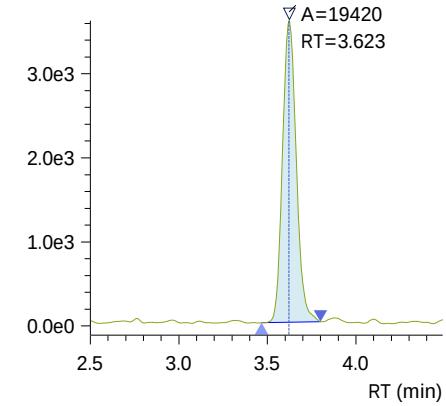
Perchlorate

Conc 1.0150
R#1 34.57 (31.12)

Q 99.00>83.00 (-) A=56168 RT=3.624 1.09e4



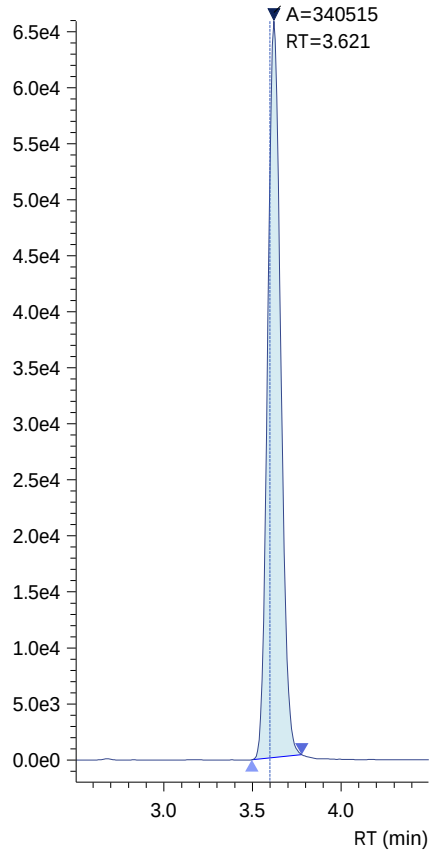
R1 101.00>85.00 (-) 3.63e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.59e4



Insight Report

Printed at 6/30/2023 1:10:51 PM

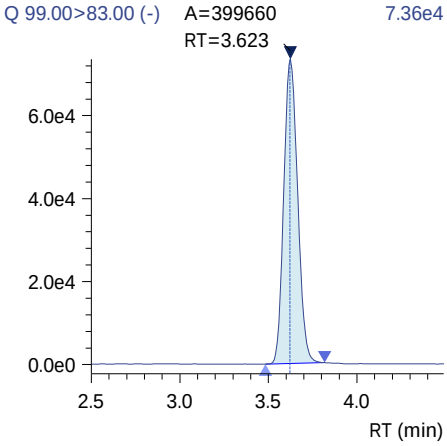
CCV

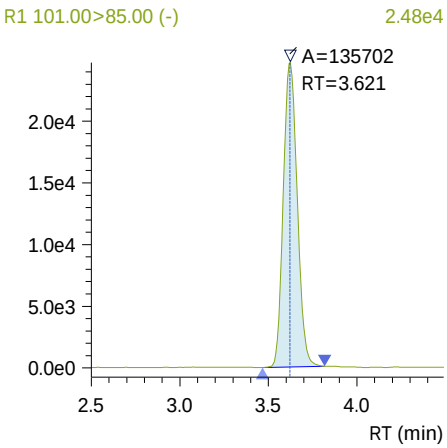
Sample ID: CCV
Date Acquired: 6/30/2023 8:34:53 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230630\20230630-004.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.623	399660	242810	10.1281	ng /mL	101.00 >85.00	33.95	21.78 -40.45
Sodium Perchlorate-18O4_IS	Auto	3.621	242810	242810	1.0000	ng /mL	----	----	

Perchlorate

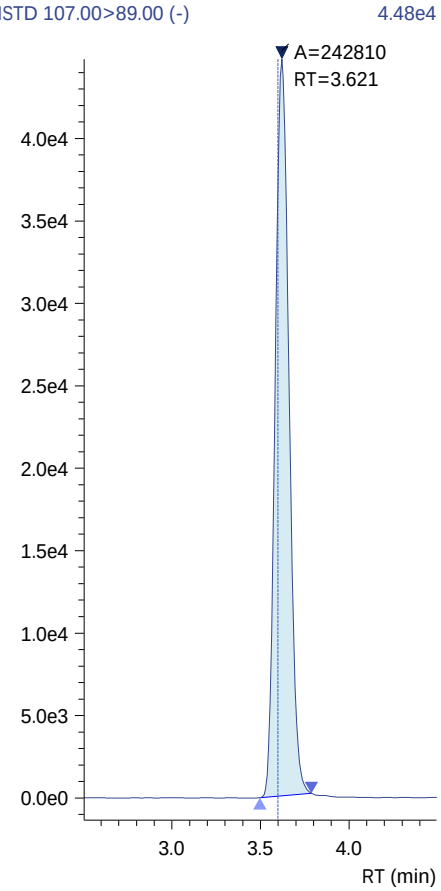
Conc 10.1281
R#1 33.95 (31.12)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 1:10:51 PM

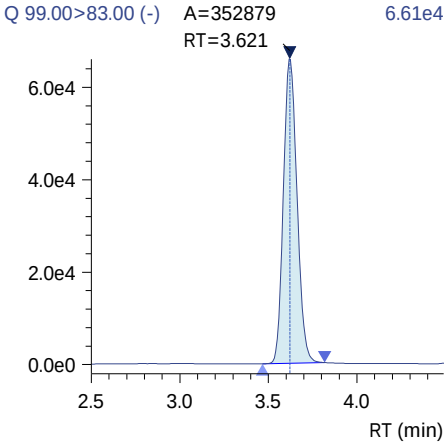
E2300611-004x1000

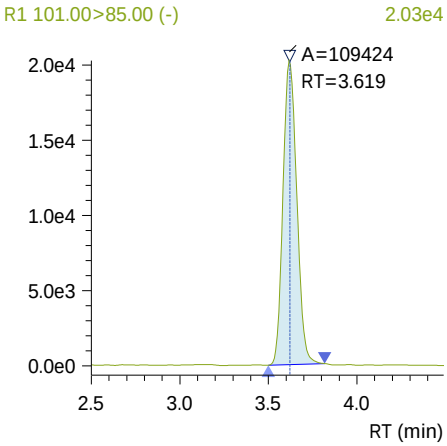
Sample ID: E2300611-004
Date Acquired: 6/30/2023 8:54:20 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230630\20230630-006.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.621	352879	291302	7.4540	ng /mL	101.00 >85.00	31.01	21.78 -40.45
Sodium Perchlorate-18O4_IS	Auto	3.618	291302	291302	1.0000	ng /mL	----	----	

Perchlorate

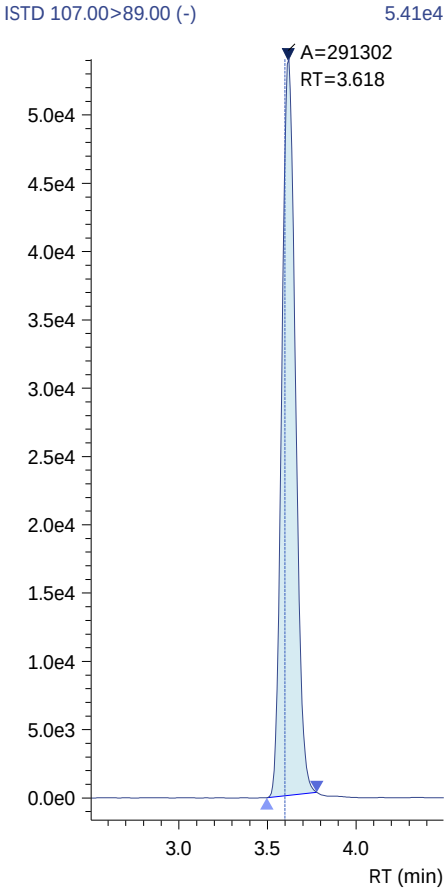
Conc 7.4540
R#1 31.01 (31.12)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 1:10:51 PM

E2300611-006x2

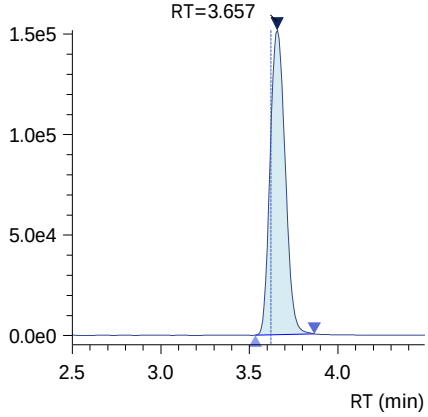
Sample ID: E2300611-006
Date Acquired: 6/30/2023 8:59:50 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230630\20230630-007.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.657	898993	213003	25.9703	ng /mL	101.00 >85.00	32.32	21.78 -40.45
Sodium Perchlorate-18O4_IS	Auto	3.653	213003	213003	1.0000	ng /mL	----	----	

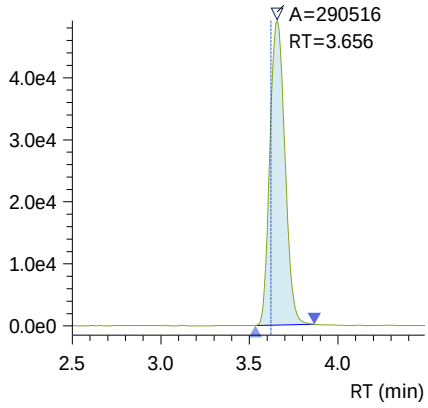
Perchlorate

Conc 25.9703
R#1 32.32 (31.12)

Q 99.00>83.00 (-) A=898993 RT=3.657 1.52e5



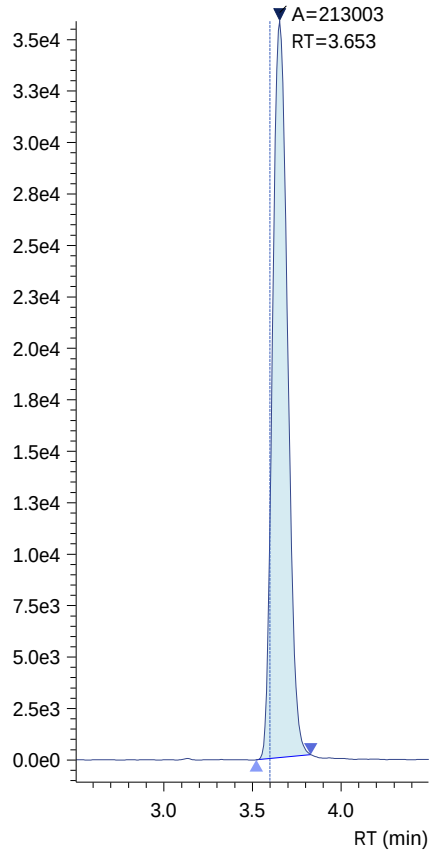
R1 101.00>85.00 (-) 4.92e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.59e4



Insight Report

Printed at 6/30/2023 1:10:51 PM

E2300611-007x2

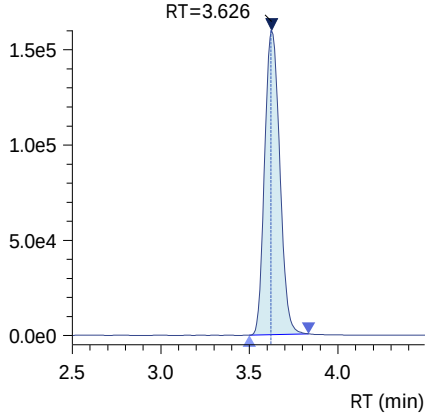
Sample ID: E2300611-007
Date Acquired: 6/30/2023 9:06:31 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230630\20230630-008.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.626	948500	213400	27.3494	ng /mL	101.00 >85.00	31.94	21.78 -40.45
Sodium Perchlorate-18O4_IS	Auto	3.620	213400	213400	1.0000	ng /mL	----	----	

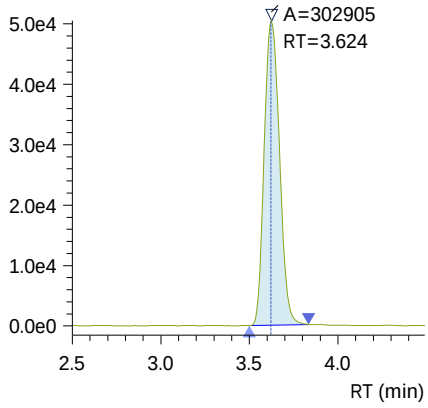
Perchlorate

Conc 27.3494
R#1 31.94 (31.12)

Q 99.00>83.00 (-) A=948500 RT=3.626 1.60e5



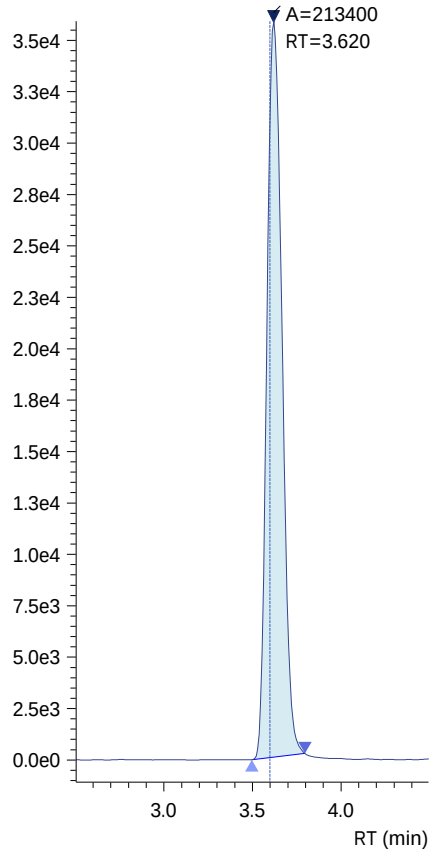
R1 101.00>85.00 (-) 5.05e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.59e4



Insight Report

Printed at 6/30/2023 1:10:51 PM

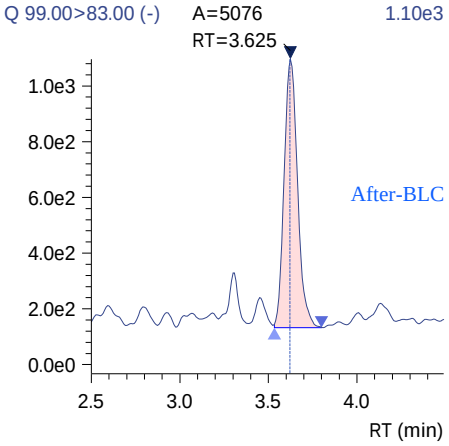
EQ2300312-02

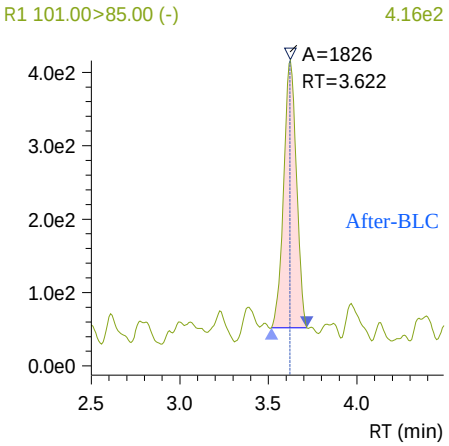
Sample ID: EQ2300312-02
Date Acquired: 6/30/2023 9:12:01 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230630\20230630-009.lcd
Vial: 14 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.625	5076	359941	0.0868	ng /mL	101.00 >85.00	35.98	21.78 -40.45
Sodium Perchlorate-18O4_IS	Auto	3.620	359941	359941	1.0000	ng /mL	----	----	

Perchlorate

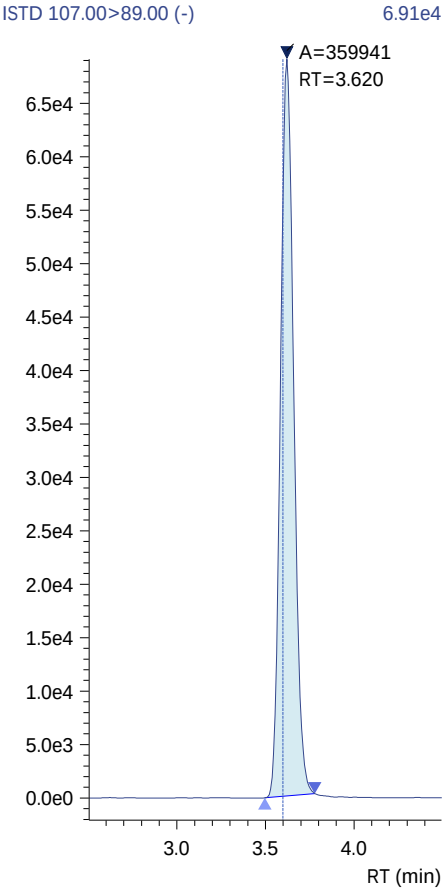
Conc 0.0868
R#1 35.98 (31.12)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 1:11:30 PM

Method File: I:\LCMS01\DATA\20230630\20230630.lcm
Project File: I:\LCMS01\DATA\20230630\20230630.damlp

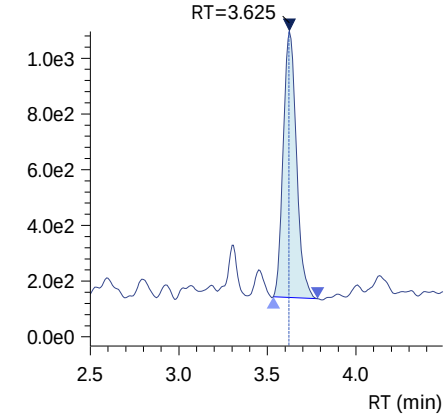
EQ2300312-02

Sample ID: EQ2300312-02
Date Acquired: 6/30/2023 9:12:01 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230630\20230630-009.lcd
Vial: 14 | Inj. Volume: 10.0000uL | Tray: 5

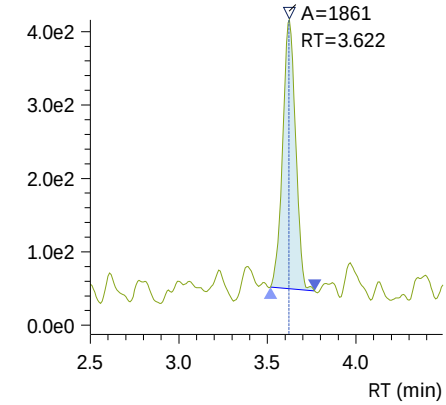
Perchlorate

Conc 0.0848
R#1 37.52 (31.12)

Q 99.00>83.00 (-) A=4960 1.10e3



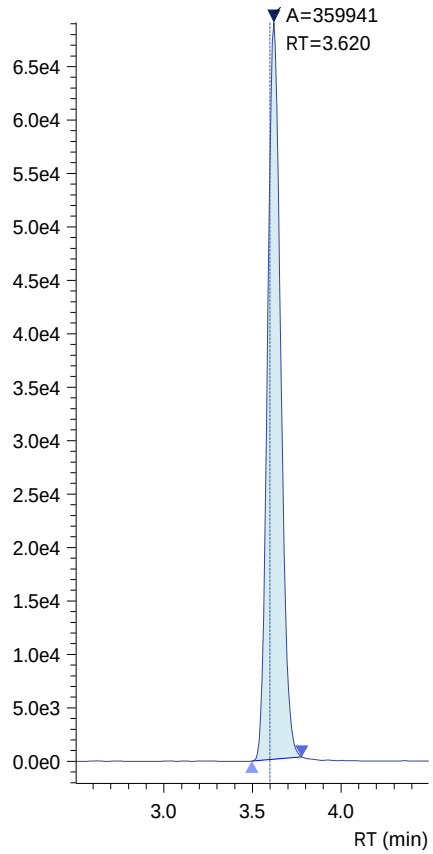
R1 101.00>85.00 (-) 4.16e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.91e4



Insight Report

Printed at 6/30/2023 1:10:51 PM

CCV

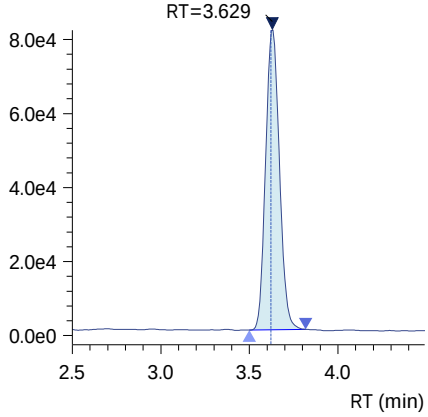
Sample ID: CCV
Date Acquired: 6/30/2023 9:47:37 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230630\20230630-015.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.629	439635	257568	10.5028	ng /mL	101.00 >85.00	30.26	21.78 -40.45
Sodium Perchlorate-18O4_IS	Auto	3.625	257568	257568	1.0000	ng /mL	----	----	

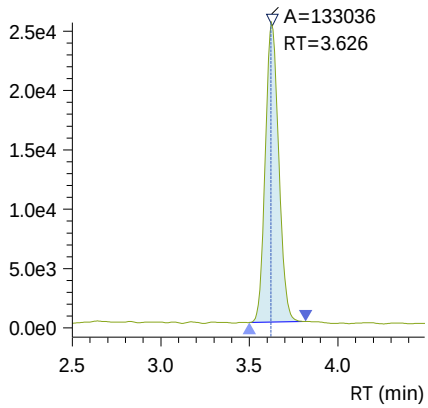
Perchlorate

Conc 10.5028
R#1 30.26 (31.12)

Q 99.00>83.00 (-) A=439635 RT=3.629 8.25e4



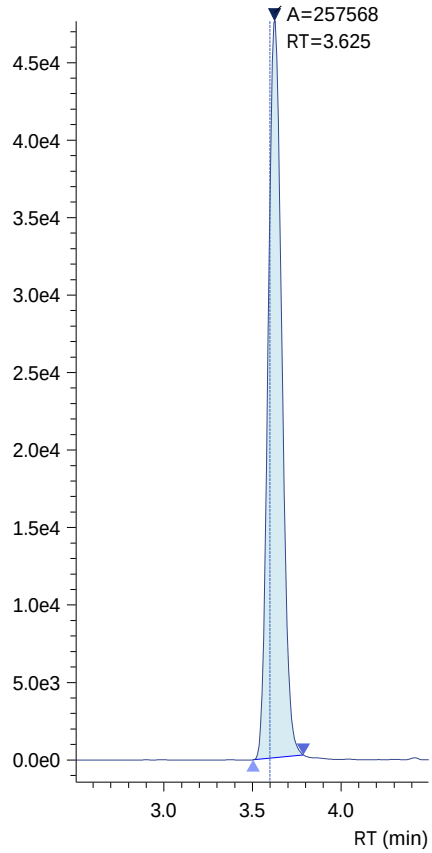
R1 101.00>85.00 (-) 2.57e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 4.77e4



HS23061712 LHAAP Site1824 Cover Page

ALS WO# HS23061712

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ALS Group USA, Corp
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Form 13 - ICPMS06_440735 Run Log

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alsglobal.com

WorkOrder: HS23061712

LHAAP Site18/24

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

05-Jul-2023

HS23061712 LHAAP Site1824 Final

ALS WO# HS23061712

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July 11, 2023

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS23061712**

Laboratory Results for: **LHAAP Site18/24**

Dear Marcia Olive,

ALS Environmental received 9 sample(s) on Jun 24, 2023 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
James Guin

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Work Order: HS23061712

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23061712-01	1824DPTMW05_062223	Water		22-Jun-2023 10:30	24-Jun-2023 09:05	☐
HS23061712-02	18CPTMW10SW_062223	Water		22-Jun-2023 13:35	24-Jun-2023 09:05	☐
HS23061712-03	18CPTMW10DW_062223	Water		22-Jun-2023 15:40	24-Jun-2023 09:05	☐
HS23061712-04	18CPTMW10DW_062223_a	Water		22-Jun-2023 15:40	24-Jun-2023 09:05	☐
HS23061712-05	18CPTMW01SW_062223	Water		23-Jun-2023 11:40	24-Jun-2023 09:05	☐
HS23061712-06	18CPTMW01DW_062323	Water		23-Jun-2023 10:20	24-Jun-2023 09:05	☐
HS23061712-07	MW2_062323	Water		23-Jun-2023 09:10	24-Jun-2023 09:05	☐
HS23061712-08	MW1_062323	Water		23-Jun-2023 12:50	24-Jun-2023 09:05	☐
HS23061712-09	Trip Blank	Water	CG-041923-961	22-Jun-2023 00:00	24-Jun-2023 09:05	☐

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: LHAAP Site18/24
Work Order: HS23061712

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: 196799

Sample ID: 1824DPTMW05_062223 (HS23061712-01)

• The surrogate recovery could not be determined due to dilution below the calibration range. (2-Fluorobiphenyl)

GCMS Volatiles by Method BFB_Tune

Batch ID: R439909

• MS and or MSD failed QC limit for some few compounds

GCMS Volatiles by Method SW8260

Batch ID: R440138

Sample ID: CCV-END

• Acetone response for closing CCV failed %D limits

Batch ID: R439909

Sample ID: HS23061707-01MS

• MS and or MSD failed QC limit for some few compounds

Batch ID: R440247

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW7470A

Batch ID: 197408

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Work Order: HS23061712

CASE NARRATIVE

Metals by Method SW6020A

Batch ID: 197198

Sample ID: MW1_062323 (HS23061712-08MS)

- The MS and/or MSD recovery was outside of the control; however, the result in the parent sample is greater than 4x the spike amount. Barium, Calcium, Manganese, Nickel, Sodium.
- The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. However, the LCS was within control limits. The recovery of the MS may be due to sample matrix interference. Cobalt,

Sample ID: MW1_062323 (HS23061712-08MSD)

- The recovery of the Matrix Spike Duplicate (MSD) associated to this analyte was outside of the established control limits. However, the LCS was within control limits. The failed recovery of the MSD may be due to sample matrix interference. Cobalt

Sample ID: MW1_062323 (HS23061712-08PDS)

- The PDS recovery was outside method control limits, however the result in the parent sample is greater than 4x the spike amount. Manganese, Nickel.

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 1824DPTMW05_062223
Collection Date: 22-Jun-2023 10:30

ANALYTICAL REPORT
WorkOrder:HS23061712
Lab ID:HS23061712-01
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	12	U	7.5	12	25	ug/L	25	26-Jun-2023 20:58
1,1,1-Trichloroethane	12	U	5.0	12	25	ug/L	25	26-Jun-2023 20:58
1,1,2,2-Tetrachloroethane	12	U	12	12	25	ug/L	25	26-Jun-2023 20:58
1,1,2-Trichloroethane	12	U	7.5	12	25	ug/L	25	26-Jun-2023 20:58
1,1-Dichloroethane	12	U	5.0	12	25	ug/L	25	26-Jun-2023 20:58
1,1-Dichloroethene	12	U	5.0	12	25	ug/L	25	26-Jun-2023 20:58
1,1-Dichloropropene	12	U	7.5	12	25	ug/L	25	26-Jun-2023 20:58
1,2,3-Trichlorobenzene	12	U	10	12	25	ug/L	25	26-Jun-2023 20:58
1,2,3-Trichloropropane	12	U	12	12	25	ug/L	25	26-Jun-2023 20:58
1,2,4-Trichlorobenzene	12	U	12	12	25	ug/L	25	26-Jun-2023 20:58
1,2,4-Trimethylbenzene	12	U	7.5	12	25	ug/L	25	26-Jun-2023 20:58
1,2-Dibromo-3-chloropropane	12	U	5.0	12	25	ug/L	25	26-Jun-2023 20:58
1,2-Dibromoethane	12	U	5.0	12	25	ug/L	25	26-Jun-2023 20:58
1,2-Dichlorobenzene	12	U	12	12	25	ug/L	25	26-Jun-2023 20:58
1,2-Dichloroethane	**84**		**5.0**	**12**	**25**	**ug/L**	25	26-Jun-2023 20:58
1,2-Dichloropropane	12	U	12	12	25	ug/L	25	26-Jun-2023 20:58
1,3,5-Trimethylbenzene	12	U	7.5	12	25	ug/L	25	26-Jun-2023 20:58
1,3-Dichlorobenzene	12	U	10	12	25	ug/L	25	26-Jun-2023 20:58
1,3-Dichloropropane	12	U	7.5	12	25	ug/L	25	26-Jun-2023 20:58
1,4-Dichlorobenzene	12	U	10	12	25	ug/L	25	26-Jun-2023 20:58
2,2-Dichloropropane	12	U	5.0	12	25	ug/L	25	26-Jun-2023 20:58
2-Butanone	12	U	12	12	50	ug/L	25	26-Jun-2023 20:58
2-Chlorotoluene	12	U	7.5	12	25	ug/L	25	26-Jun-2023 20:58
2-Hexanone	12	U	25	12	50	ug/L	25	26-Jun-2023 20:58
4-Chlorotoluene	12	U	10	12	25	ug/L	25	26-Jun-2023 20:58
4-Isopropyltoluene	12	U	7.5	12	25	ug/L	25	26-Jun-2023 20:58
4-Methyl-2-pentanone	12	U	18	12	50	ug/L	25	26-Jun-2023 20:58
Acetone	12	U	10	12	50	ug/L	25	26-Jun-2023 20:58
Benzene	12	U	5.0	12	25	ug/L	25	26-Jun-2023 20:58
Bromobenzene	12	U	10	12	25	ug/L	25	26-Jun-2023 20:58
Bromochloromethane	12	U	5.0	12	25	ug/L	25	26-Jun-2023 20:58
Bromodichloromethane	12	U	5.0	12	25	ug/L	25	26-Jun-2023 20:58
Bromoform	12	U	10	12	25	ug/L	25	26-Jun-2023 20:58
Bromomethane	12	U	10	12	25	ug/L	25	26-Jun-2023 20:58
Carbon disulfide	12	U	15	12	50	ug/L	25	26-Jun-2023 20:58
Carbon tetrachloride	**27**		**12**	**12**	**25**	**ug/L**	25	26-Jun-2023 20:58
Chlorobenzene	12	U	7.5	12	25	ug/L	25	26-Jun-2023 20:58
Chloroethane	12	U	7.5	12	25	ug/L	25	26-Jun-2023 20:58
Chloroform	**34**		**5.0**	**12**	**25**	**ug/L**	25	26-Jun-2023 20:58

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 1824DPTMW05_062223
Collection Date: 22-Jun-2023 10:30

ANALYTICAL REPORT
WorkOrder:HS23061712
Lab ID:HS23061712-01
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	12	U	5.0	12	25	ug/L	25	26-Jun-2023 20:58
cis-1,2-Dichloroethene	**82**		**5.0**	**12**	**25**	**ug/L**	25	26-Jun-2023 20:58
cis-1,3-Dichloropropene	12	U	5.0	12	25	ug/L	25	26-Jun-2023 20:58
Dibromochloromethane	12	U	7.5	12	25	ug/L	25	26-Jun-2023 20:58
Dibromomethane	12	U	5.0	12	25	ug/L	25	26-Jun-2023 20:58
Dichlorodifluoromethane	12	U	7.5	12	25	ug/L	25	26-Jun-2023 20:58
Ethylbenzene	12	U	7.5	12	25	ug/L	25	26-Jun-2023 20:58
Hexachlorobutadiene	12	U	25	12	25	ug/L	25	26-Jun-2023 20:58
Isopropylbenzene	12	U	7.5	12	25	ug/L	25	26-Jun-2023 20:58
m,p-Xylene	25	U	12	25	50	ug/L	25	26-Jun-2023 20:58
Methylene chloride	12	U	10	12	50	ug/L	25	26-Jun-2023 20:58
n-Butylbenzene	12	U	10	12	25	ug/L	25	26-Jun-2023 20:58
n-Propylbenzene	12	U	7.5	12	25	ug/L	25	26-Jun-2023 20:58
Naphthalene	12	U	7.5	12	25	ug/L	25	26-Jun-2023 20:58
o-Xylene	12	U	7.5	12	25	ug/L	25	26-Jun-2023 20:58
sec-Butylbenzene	12	U	7.5	12	25	ug/L	25	26-Jun-2023 20:58
Styrene	12	U	7.5	12	25	ug/L	25	26-Jun-2023 20:58
tert-Butylbenzene	12	U	7.5	12	25	ug/L	25	26-Jun-2023 20:58
Tetrachloroethene	12	U	7.5	12	25	ug/L	25	26-Jun-2023 20:58
Toluene	12	U	5.0	12	25	ug/L	25	26-Jun-2023 20:58
trans-1,2-Dichloroethene	12	U	5.0	12	25	ug/L	25	26-Jun-2023 20:58
trans-1,3-Dichloropropene	12	U	5.0	12	25	ug/L	25	26-Jun-2023 20:58
Trichloroethene	**5,100**		**20**	**50**	**100**	**ug/L**	100	28-Jun-2023 15:48
Trichlorofluoromethane	12	U	7.5	12	25	ug/L	25	26-Jun-2023 20:58
Vinyl chloride	12	U	5.0	12	25	ug/L	25	26-Jun-2023 20:58
Surr: 1,2-Dichloroethane-d4	*92.4*			**0**	*81-118*	*%REC*	*25*	*26-Jun-2023 20:58*
Surr: 1,2-Dichloroethane-d4	*83.9*			**0**	*81-118*	*%REC*	*100*	*28-Jun-2023 15:48*
Surr: 4-Bromofluorobenzene	*96.5*			**0**	*85-114*	*%REC*	*25*	*26-Jun-2023 20:58*
Surr: 4-Bromofluorobenzene	*91.2*			**0**	*85-114*	*%REC*	*100*	*28-Jun-2023 15:48*
Surr: Dibromofluoromethane	*94.3*			**0**	*80-119*	*%REC*	*25*	*26-Jun-2023 20:58*
Surr: Dibromofluoromethane	*91.6*			**0**	*80-119*	*%REC*	*100*	*28-Jun-2023 15:48*
Surr: Toluene-d8	*105*			**0**	*89-112*	*%REC*	*25*	*26-Jun-2023 20:58*
Surr: Toluene-d8	*104*			**0**	*89-112*	*%REC*	*100*	*28-Jun-2023 15:48*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 27-Jun-2023		Analyst: JL
1,4-Dioxane	**8.8**		**1.0**	**0.50**	**1.0**	**ug/L**	100	29-Jun-2023 16:06
Surr: 2-Fluorobiphenyl	*0*	*S*		0	*40-140*	*%REC*	*100*	*29-Jun-2023 16:06*
Surr: 4-Terphenyl-d14	*0*	*S*		0	*40-140*	*%REC*	*100*	*29-Jun-2023 16:06*
Surr: Nitrobenzene-d5	*0*	*S*		0	*40-140*	*%REC*	*100*	*29-Jun-2023 16:06*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.

ANALYTICAL REPORT

Project: LHAAP Site18/24

WorkOrder:HS23061712

Sample ID: 1824DPTMW05_062223

Lab ID:HS23061712-01

Collection Date: 22-Jun-2023 10:30

Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: KR
Subcontract Analysis	See Attached		0	0		NA	1	11-Jul-2023 11:01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18CPTMW10SW_062223
Collection Date: 22-Jun-2023 13:35

ANALYTICAL REPORT
WorkOrder:HS23061712
Lab ID:HS23061712-02
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:23
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 14:23
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	28-Jun-2023 14:23
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:23
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 14:23
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 14:23
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:23
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	28-Jun-2023 14:23
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	28-Jun-2023 14:23
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	28-Jun-2023 14:23
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:23
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 14:23
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 14:23
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	28-Jun-2023 14:23
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 14:23
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	28-Jun-2023 14:23
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:23
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	28-Jun-2023 14:23
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:23
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	28-Jun-2023 14:23
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 14:23
2-Butanone	0.50	U	0.50	0.50	2.0	ug/L	1	28-Jun-2023 14:23
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:23
2-Hexanone	0.50	U	1.0	0.50	2.0	ug/L	1	28-Jun-2023 14:23
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	28-Jun-2023 14:23
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:23
4-Methyl-2-pentanone	0.50	U	0.70	0.50	2.0	ug/L	1	28-Jun-2023 14:23
Acetone	0.50	U	0.40	0.50	2.0	ug/L	1	28-Jun-2023 14:23
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 14:23
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	28-Jun-2023 14:23
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 14:23
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 14:23
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	28-Jun-2023 14:23
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	28-Jun-2023 14:23
Carbon disulfide	0.50	U	0.60	0.50	2.0	ug/L	1	28-Jun-2023 14:23
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	28-Jun-2023 14:23
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:23
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:23
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 14:23

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18CPTMW10SW_062223
Collection Date: 22-Jun-2023 13:35

ANALYTICAL REPORT
WorkOrder:HS23061712
Lab ID:HS23061712-02
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 14:23
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 14:23
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 14:23
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:23
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 14:23
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:23
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:23
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	28-Jun-2023 14:23
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:23
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	28-Jun-2023 14:23
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	28-Jun-2023 14:23
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	28-Jun-2023 14:23
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:23
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:23
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:23
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:23
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:23
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:23
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:23
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 14:23
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 14:23
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 14:23
Trichloroethene	**2.2**		**0.20**	**0.50**	**1.0**	**ug/L**	1	28-Jun-2023 14:23
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:23
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 14:23
Surr: 1,2-Dichloroethane-d4	*83.8*			**0**	*81-118*	*%REC*	*1*	*28-Jun-2023 14:23*
Surr: 4-Bromofluorobenzene	*94.6*			**0**	*85-114*	*%REC*	*1*	*28-Jun-2023 14:23*
Surr: Dibromofluoromethane	*90.3*			**0**	*80-119*	*%REC*	*1*	*28-Jun-2023 14:23*
Surr: Toluene-d8	*105*			**0**	*89-112*	*%REC*	*1*	*28-Jun-2023 14:23*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 27-Jun-2023		Analyst: JL
1,4-Dioxane	**0.037**		**0.010**	**0.0050**	**0.010**	**ug/L**	1	29-Jun-2023 14:27
Surr: 2-Fluorobiphenyl	*110*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2023 14:27*
Surr: 4-Terphenyl-d14	*113*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2023 14:27*
Surr: Nitrobenzene-d5	*110*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2023 14:27*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: KR
Subcontract Analysis	See Attached		0	0		NA	1	11-Jul-2023 11:01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18CPTMW10DW_062223
Collection Date: 22-Jun-2023 15:40

ANALYTICAL REPORT
WorkOrder:HS23061712
Lab ID:HS23061712-03
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:21
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:21
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 15:21
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:21
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:21
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:21
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:21
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 15:21
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 15:21
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 15:21
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:21
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:21
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:21
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 15:21
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:21
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 15:21
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:21
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 15:21
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:21
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 15:21
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:21
2-Butanone	0.50	U	0.50	0.50	2.0	ug/L	1	26-Jun-2023 15:21
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:21
2-Hexanone	0.50	U	1.0	0.50	2.0	ug/L	1	26-Jun-2023 15:21
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 15:21
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:21
4-Methyl-2-pentanone	0.50	U	0.70	0.50	2.0	ug/L	1	26-Jun-2023 15:21
Acetone	0.50	U	0.40	0.50	2.0	ug/L	1	26-Jun-2023 15:21
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:21
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 15:21
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:21
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:21
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 15:21
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 15:21
Carbon disulfide	0.50	U	0.60	0.50	2.0	ug/L	1	26-Jun-2023 15:21
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 15:21
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:21
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:21
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:21

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18CPTMW10DW_062223
Collection Date: 22-Jun-2023 15:40

ANALYTICAL REPORT
WorkOrder:HS23061712
Lab ID:HS23061712-03
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:21
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:21
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:21
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:21
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:21
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:21
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:21
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	26-Jun-2023 15:21
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:21
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	26-Jun-2023 15:21
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	26-Jun-2023 15:21
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 15:21
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:21
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:21
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:21
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:21
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:21
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:21
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:21
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:21
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:21
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:21
Trichloroethene	**1.3**		**0.20**	**0.50**	**1.0**	**ug/L**	1	26-Jun-2023 15:21
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:21
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:21
Surr: 1,2-Dichloroethane-d4	*93.8*			**0**	*81-118*	*%REC*	*1*	*26-Jun-2023 15:21*
Surr: 4-Bromofluorobenzene	*96.9*			**0**	*85-114*	*%REC*	*1*	*26-Jun-2023 15:21*
Surr: Dibromofluoromethane	*94.5*			**0**	*80-119*	*%REC*	*1*	*26-Jun-2023 15:21*
Surr: Toluene-d8	*105*			**0**	*89-112*	*%REC*	*1*	*26-Jun-2023 15:21*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18CPTMW10DW_062223
Collection Date: 22-Jun-2023 15:40

ANALYTICAL REPORT
WorkOrder:HS23061712
Lab ID:HS23061712-03
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 06-Jul-2023		Analyst: JC
Aluminum	**0.0329**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	07-Jul-2023 17:39
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	07-Jul-2023 17:39
Arsenic	**0.00106**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:39
Barium	**0.393**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:39
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 17:39
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 17:39
Calcium	**61.6**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	07-Jul-2023 17:39
Chromium	**0.00342**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:39
Cobalt	**0.000318**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	07-Jul-2023 17:39
Copper	0.00250	U	0.00100	0.00250	0.00500	mg/L	1	07-Jul-2023 17:39
Iron	**9.08**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:39
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	07-Jul-2023 17:39
Magnesium	**11.6**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:39
Manganese	**0.297**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:39
Nickel	**0.00100**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:39
Potassium	**44.3**		**0.0180**	**1.00**	**0.200**	**mg/L**	1	07-Jul-2023 17:39
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	07-Jul-2023 17:39
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	07-Jul-2023 17:39
Sodium	**128**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:39
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 17:39
Vanadium	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	07-Jul-2023 17:39
Zinc	**0.00336**	J	**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:39
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 11-Jul-2023		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	11-Jul-2023 13:51
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: KR
Subcontract Analysis	See Attached		0	0		NA	1	11-Jul-2023 11:01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18CPTMW10DW_062223_a
Collection Date: 22-Jun-2023 15:40

ANALYTICAL REPORT
WorkOrder:HS23061712
Lab ID:HS23061712-04
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:42
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:42
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 15:42
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:42
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:42
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:42
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:42
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 15:42
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 15:42
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 15:42
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:42
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:42
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:42
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 15:42
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:42
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 15:42
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:42
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 15:42
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:42
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 15:42
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:42
2-Butanone	0.50	U	0.50	0.50	2.0	ug/L	1	26-Jun-2023 15:42
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:42
2-Hexanone	0.50	U	1.0	0.50	2.0	ug/L	1	26-Jun-2023 15:42
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 15:42
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:42
4-Methyl-2-pentanone	0.50	U	0.70	0.50	2.0	ug/L	1	26-Jun-2023 15:42
Acetone	0.50	U	0.40	0.50	2.0	ug/L	1	26-Jun-2023 15:42
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:42
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 15:42
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:42
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:42
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 15:42
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 15:42
Carbon disulfide	0.50	U	0.60	0.50	2.0	ug/L	1	26-Jun-2023 15:42
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 15:42
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:42
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:42
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18CPTMW10DW_062223_a
Collection Date: 22-Jun-2023 15:40

ANALYTICAL REPORT
WorkOrder:HS23061712
Lab ID:HS23061712-04
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:42
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:42
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:42
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:42
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:42
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:42
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:42
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	26-Jun-2023 15:42
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:42
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	26-Jun-2023 15:42
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	26-Jun-2023 15:42
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 15:42
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:42
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:42
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:42
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:42
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:42
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:42
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:42
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:42
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:42
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:42
Trichloroethene	**1.4**		**0.20**	**0.50**	**1.0**	**ug/L**	1	26-Jun-2023 15:42
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:42
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:42
Surr: 1,2-Dichloroethane-d4	*94.5*			**0**	*81-118*	*%REC*	*1*	*26-Jun-2023 15:42*
Surr: 4-Bromofluorobenzene	*94.0*			**0**	*85-114*	*%REC*	*1*	*26-Jun-2023 15:42*
Surr: Dibromofluoromethane	*94.3*			**0**	*80-119*	*%REC*	*1*	*26-Jun-2023 15:42*
Surr: Toluene-d8	*103*			**0**	*89-112*	*%REC*	*1*	*26-Jun-2023 15:42*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18CPTMW10DW_062223_a
Collection Date: 22-Jun-2023 15:40

ANALYTICAL REPORT
WorkOrder:HS23061712
Lab ID:HS23061712-04
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 06-Jul-2023		Analyst: JC
Aluminum	**0.0297**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	07-Jul-2023 17:47
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	07-Jul-2023 17:47
Arsenic	**0.000987**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:47
Barium	**0.373**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:47
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 17:47
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 17:47
Calcium	**59.1**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	07-Jul-2023 17:47
Chromium	**0.00368**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:47
Cobalt	**0.000284**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	07-Jul-2023 17:47
Copper	0.00250	U	0.00100	0.00250	0.00500	mg/L	1	07-Jul-2023 17:47
Iron	**8.69**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:47
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	07-Jul-2023 17:47
Magnesium	**11.3**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:47
Manganese	**0.284**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:47
Nickel	**0.00156**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:47
Potassium	**42.2**		**0.0180**	**1.00**	**0.200**	**mg/L**	1	07-Jul-2023 17:47
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	07-Jul-2023 17:47
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	07-Jul-2023 17:47
Sodium	**124**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:47
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 17:47
Vanadium	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	07-Jul-2023 17:47
Zinc	**0.00290**	J	**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:47
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 11-Jul-2023		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	11-Jul-2023 13:52
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: KR
Subcontract Analysis	See Attached		0	0		NA	1	11-Jul-2023 11:01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18CPTMW01SW_062223
Collection Date: 23-Jun-2023 11:40

ANALYTICAL REPORT
WorkOrder:HS23061712
Lab ID:HS23061712-05
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:44
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 14:44
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	28-Jun-2023 14:44
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:44
1,1-Dichloroethane	**0.72**	J	**0.20**	**0.50**	**1.0**	**ug/L**	1	28-Jun-2023 14:44
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 14:44
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:44
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	28-Jun-2023 14:44
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	28-Jun-2023 14:44
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	28-Jun-2023 14:44
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:44
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 14:44
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 14:44
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	28-Jun-2023 14:44
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 14:44
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	28-Jun-2023 14:44
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:44
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	28-Jun-2023 14:44
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:44
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	28-Jun-2023 14:44
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 14:44
2-Butanone	0.50	U	0.50	0.50	2.0	ug/L	1	28-Jun-2023 14:44
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:44
2-Hexanone	0.50	U	1.0	0.50	2.0	ug/L	1	28-Jun-2023 14:44
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	28-Jun-2023 14:44
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:44
4-Methyl-2-pentanone	0.50	U	0.70	0.50	2.0	ug/L	1	28-Jun-2023 14:44
Acetone	0.50	U	0.40	0.50	2.0	ug/L	1	28-Jun-2023 14:44
Benzene	**3.3**		**0.20**	**0.50**	**1.0**	**ug/L**	1	28-Jun-2023 14:44
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	28-Jun-2023 14:44
Bromochloromethane	**4.4**		**0.20**	**0.50**	**1.0**	**ug/L**	1	28-Jun-2023 14:44
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 14:44
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	28-Jun-2023 14:44
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	28-Jun-2023 14:44
Carbon disulfide	0.50	U	0.60	0.50	2.0	ug/L	1	28-Jun-2023 14:44
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	28-Jun-2023 14:44
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:44
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:44
Chloroform	**3.8**		**0.20**	**0.50**	**1.0**	**ug/L**	1	28-Jun-2023 14:44

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18CPTMW01SW_062223
Collection Date: 23-Jun-2023 11:40

ANALYTICAL REPORT
WorkOrder:HS23061712
Lab ID:HS23061712-05
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 14:44
cis-1,2-Dichloroethene	**1,100**		**40**	**100**	**200**	**ug/L**	200	29-Jun-2023 16:18
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 14:44
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:44
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 14:44
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:44
Ethylbenzene	**1.1**		**0.30**	**0.50**	**1.0**	**ug/L**	1	28-Jun-2023 14:44
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	28-Jun-2023 14:44
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:44
m,p-Xylene	**1.00**	J	**0.50**	**1.0**	**2.0**	**ug/L**	1	28-Jun-2023 14:44
Methylene chloride	**5,000**		**80**	**100**	**400**	**ug/L**	200	29-Jun-2023 16:18
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	28-Jun-2023 14:44
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:44
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:44
o-Xylene	**0.76**	J	**0.30**	**0.50**	**1.0**	**ug/L**	1	28-Jun-2023 14:44
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:44
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:44
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:44
Tetrachloroethene	**1.2**		**0.30**	**0.50**	**1.0**	**ug/L**	1	28-Jun-2023 14:44
Toluene	**3.0**		**0.20**	**0.50**	**1.0**	**ug/L**	1	28-Jun-2023 14:44
trans-1,2-Dichloroethene	**4.7**		**0.20**	**0.50**	**1.0**	**ug/L**	1	28-Jun-2023 14:44
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 14:44
Trichloroethene	**69**		**0.20**	**0.50**	**1.0**	**ug/L**	1	28-Jun-2023 14:44
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 14:44
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 14:44
Surr: 1,2-Dichloroethane-d4	*81.9*			**0**	*81-118*	*%REC*	*1*	*28-Jun-2023 14:44*
Surr: 1,2-Dichloroethane-d4	*102*			**0**	*81-118*	*%REC*	*200*	*29-Jun-2023 16:18*
Surr: 4-Bromofluorobenzene	*95.4*			**0**	*85-114*	*%REC*	*1*	*28-Jun-2023 14:44*
Surr: 4-Bromofluorobenzene	*94.5*			**0**	*85-114*	*%REC*	*200*	*29-Jun-2023 16:18*
Surr: Dibromofluoromethane	*91.3*			**0**	*80-119*	*%REC*	*1*	*28-Jun-2023 14:44*
Surr: Dibromofluoromethane	*98.2*			**0**	*80-119*	*%REC*	*200*	*29-Jun-2023 16:18*
Surr: Toluene-d8	*101*			**0**	*89-112*	*%REC*	*1*	*28-Jun-2023 14:44*
Surr: Toluene-d8	*109*			**0**	*89-112*	*%REC*	*200*	*29-Jun-2023 16:18*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 27-Jun-2023		Analyst: JL
1,4-Dioxane	**0.044**		**0.010**	**0.0050**	**0.010**	**ug/L**	1	29-Jun-2023 14:45
Surr: 2-Fluorobiphenyl	*110*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2023 14:45*
Surr: 4-Terphenyl-d14	*105*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2023 14:45*
Surr: Nitrobenzene-d5	*112*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2023 14:45*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18CPTMW01SW_062223
Collection Date: 23-Jun-2023 11:40

ANALYTICAL REPORT
WorkOrder:HS23061712
Lab ID:HS23061712-05
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 06-Jul-2023		Analyst: JC
Aluminum	**0.0172**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	07-Jul-2023 17:49
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	07-Jul-2023 17:49
Arsenic	**0.00655**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:49
Barium	**0.922**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:49
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 17:49
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 17:49
Calcium	**33.2**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	07-Jul-2023 17:49
Chromium	**0.00212**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:49
Cobalt	**0.000795**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	07-Jul-2023 17:49
Copper	0.00250	U	0.00100	0.00250	0.00500	mg/L	1	07-Jul-2023 17:49
Iron	**43.7**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:49
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	07-Jul-2023 17:49
Magnesium	**20.8**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:49
Manganese	**0.492**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:49
Nickel	**0.00197**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:49
Potassium	**10.2**		**0.0180**	**1.00**	**0.200**	**mg/L**	1	07-Jul-2023 17:49
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	07-Jul-2023 17:49
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	07-Jul-2023 17:49
Sodium	**94.5**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:49
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 17:49
Vanadium	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	07-Jul-2023 17:49
Zinc	**0.00543**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:49
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 11-Jul-2023		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	11-Jul-2023 13:54
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: KR
Subcontract Analysis	See Attached		0	0		NA	1	11-Jul-2023 11:01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18CPTMW01DW_062323
Collection Date: 23-Jun-2023 10:20

ANALYTICAL REPORT
WorkOrder:HS23061712
Lab ID:HS23061712-06
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 20:37
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 20:37
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 20:37
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 20:37
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 20:37
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 20:37
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 20:37
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 20:37
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 20:37
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 20:37
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 20:37
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 20:37
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 20:37
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 20:37
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 20:37
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 20:37
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 20:37
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 20:37
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 20:37
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 20:37
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 20:37
2-Butanone	0.50	U	0.50	0.50	2.0	ug/L	1	26-Jun-2023 20:37
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 20:37
2-Hexanone	0.50	U	1.0	0.50	2.0	ug/L	1	26-Jun-2023 20:37
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 20:37
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 20:37
4-Methyl-2-pentanone	0.50	U	0.70	0.50	2.0	ug/L	1	26-Jun-2023 20:37
Acetone	0.50	U	0.40	0.50	2.0	ug/L	1	26-Jun-2023 20:37
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 20:37
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 20:37
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 20:37
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 20:37
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 20:37
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 20:37
Carbon disulfide	0.50	U	0.60	0.50	2.0	ug/L	1	26-Jun-2023 20:37
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 20:37
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 20:37
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 20:37
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 20:37

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18CPTMW01DW_062323
Collection Date: 23-Jun-2023 10:20

ANALYTICAL REPORT
WorkOrder:HS23061712
Lab ID:HS23061712-06
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 20:37
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 20:37
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 20:37
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 20:37
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 20:37
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 20:37
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 20:37
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	26-Jun-2023 20:37
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 20:37
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	26-Jun-2023 20:37
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	26-Jun-2023 20:37
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 20:37
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 20:37
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 20:37
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 20:37
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 20:37
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 20:37
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 20:37
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 20:37
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 20:37
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 20:37
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 20:37
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 20:37
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 20:37
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 20:37
Surr: 1,2-Dichloroethane-d4	*90.1*			**0**	*81-118*	*%REC*	*1*	*26-Jun-2023 20:37*
Surr: 4-Bromofluorobenzene	*94.3*			**0**	*85-114*	*%REC*	*1*	*26-Jun-2023 20:37*
Surr: Dibromofluoromethane	*93.9*			**0**	*80-119*	*%REC*	*1*	*26-Jun-2023 20:37*
Surr: Toluene-d8	*105*			**0**	*89-112*	*%REC*	*1*	*26-Jun-2023 20:37*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 27-Jun-2023		Analyst: JL
1,4-Dioxane	**0.027**		**0.010**	**0.0050**	**0.010**	**ug/L**	1	29-Jun-2023 15:03
Surr: 2-Fluorobiphenyl	*109*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2023 15:03*
Surr: 4-Terphenyl-d14	*111*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2023 15:03*
Surr: Nitrobenzene-d5	*112*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2023 15:03*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18CPTMW01DW_062323
Collection Date: 23-Jun-2023 10:20

ANALYTICAL REPORT
WorkOrder:HS23061712
Lab ID:HS23061712-06
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 06-Jul-2023		Analyst: JC
Aluminum	**0.0114**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	07-Jul-2023 17:51
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	07-Jul-2023 17:51
Arsenic	**0.00135**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:51
Barium	**0.253**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:51
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 17:51
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 17:51
Calcium	**22.2**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	07-Jul-2023 17:51
Chromium	**0.00423**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:51
Cobalt	**0.000275**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	07-Jul-2023 17:51
Copper	0.00250	U	0.00100	0.00250	0.00500	mg/L	1	07-Jul-2023 17:51
Iron	**0.746**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:51
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	07-Jul-2023 17:51
Magnesium	**12.0**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:51
Manganese	**0.0467**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:51
Nickel	**0.00192**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:51
Potassium	**72.6**		**0.0180**	**1.00**	**0.200**	**mg/L**	1	07-Jul-2023 17:51
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	07-Jul-2023 17:51
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	07-Jul-2023 17:51
Sodium	**383**		**0.280**	**1.00**	**4.00**	**mg/L**	20	07-Jul-2023 18:44
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 17:51
Vanadium	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	07-Jul-2023 17:51
Zinc	**0.00250**	J	**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:51
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 11-Jul-2023		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	11-Jul-2023 13:56
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: KR
Subcontract Analysis	See Attached		0	0		NA	1	11-Jul-2023 11:01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: MW2_062323
Collection Date: 23-Jun-2023 09:10

ANALYTICAL REPORT
WorkOrder:HS23061712
Lab ID:HS23061712-07
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	12	U	7.5	12	25	ug/L	25	26-Jun-2023 22:01
1,1,1-Trichloroethane	12	U	5.0	12	25	ug/L	25	26-Jun-2023 22:01
1,1,2,2-Tetrachloroethane	12	U	12	12	25	ug/L	25	26-Jun-2023 22:01
1,1,2-Trichloroethane	12	U	7.5	12	25	ug/L	25	26-Jun-2023 22:01
1,1-Dichloroethane	**16**	J	**5.0**	**12**	**25**	**ug/L**	25	26-Jun-2023 22:01
1,1-Dichloroethene	12	U	5.0	12	25	ug/L	25	26-Jun-2023 22:01
1,1-Dichloropropene	12	U	7.5	12	25	ug/L	25	26-Jun-2023 22:01
1,2,3-Trichlorobenzene	12	U	10	12	25	ug/L	25	26-Jun-2023 22:01
1,2,3-Trichloropropane	12	U	12	12	25	ug/L	25	26-Jun-2023 22:01
1,2,4-Trichlorobenzene	12	U	12	12	25	ug/L	25	26-Jun-2023 22:01
1,2,4-Trimethylbenzene	12	U	7.5	12	25	ug/L	25	26-Jun-2023 22:01
1,2-Dibromo-3-chloropropane	12	U	5.0	12	25	ug/L	25	26-Jun-2023 22:01
1,2-Dibromoethane	12	U	5.0	12	25	ug/L	25	26-Jun-2023 22:01
1,2-Dichlorobenzene	12	U	12	12	25	ug/L	25	26-Jun-2023 22:01
1,2-Dichloroethane	12	U	5.0	12	25	ug/L	25	26-Jun-2023 22:01
1,2-Dichloropropane	12	U	12	12	25	ug/L	25	26-Jun-2023 22:01
1,3,5-Trimethylbenzene	12	U	7.5	12	25	ug/L	25	26-Jun-2023 22:01
1,3-Dichlorobenzene	12	U	10	12	25	ug/L	25	26-Jun-2023 22:01
1,3-Dichloropropane	12	U	7.5	12	25	ug/L	25	26-Jun-2023 22:01
1,4-Dichlorobenzene	12	U	10	12	25	ug/L	25	26-Jun-2023 22:01
2,2-Dichloropropane	12	U	5.0	12	25	ug/L	25	26-Jun-2023 22:01
2-Butanone	12	U	12	12	50	ug/L	25	26-Jun-2023 22:01
2-Chlorotoluene	12	U	7.5	12	25	ug/L	25	26-Jun-2023 22:01
2-Hexanone	12	U	25	12	50	ug/L	25	26-Jun-2023 22:01
4-Chlorotoluene	12	U	10	12	25	ug/L	25	26-Jun-2023 22:01
4-Isopropyltoluene	12	U	7.5	12	25	ug/L	25	26-Jun-2023 22:01
4-Methyl-2-pentanone	12	U	18	12	50	ug/L	25	26-Jun-2023 22:01
Acetone	12	U	10	12	50	ug/L	25	26-Jun-2023 22:01
Benzene	12	U	5.0	12	25	ug/L	25	26-Jun-2023 22:01
Bromobenzene	12	U	10	12	25	ug/L	25	26-Jun-2023 22:01
Bromochloromethane	12	U	5.0	12	25	ug/L	25	26-Jun-2023 22:01
Bromodichloromethane	12	U	5.0	12	25	ug/L	25	26-Jun-2023 22:01
Bromoform	12	U	10	12	25	ug/L	25	26-Jun-2023 22:01
Bromomethane	12	U	10	12	25	ug/L	25	26-Jun-2023 22:01
Carbon disulfide	12	U	15	12	50	ug/L	25	26-Jun-2023 22:01
Carbon tetrachloride	12	U	12	12	25	ug/L	25	26-Jun-2023 22:01
Chlorobenzene	12	U	7.5	12	25	ug/L	25	26-Jun-2023 22:01
Chloroethane	12	U	7.5	12	25	ug/L	25	26-Jun-2023 22:01
Chloroform	**43**		**5.0**	**12**	**25**	**ug/L**	25	26-Jun-2023 22:01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: MW2_062323
Collection Date: 23-Jun-2023 09:10

ANALYTICAL REPORT
WorkOrder:HS23061712
Lab ID:HS23061712-07
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	12	U	5.0	12	25	ug/L	25	26-Jun-2023 22:01
cis-1,2-Dichloroethene	**25,000**		**50**	**120**	**250**	**ug/L**	250	26-Jun-2023 22:22
cis-1,3-Dichloropropene	12	U	5.0	12	25	ug/L	25	26-Jun-2023 22:01
Dibromochloromethane	12	U	7.5	12	25	ug/L	25	26-Jun-2023 22:01
Dibromomethane	12	U	5.0	12	25	ug/L	25	26-Jun-2023 22:01
Dichlorodifluoromethane	12	U	7.5	12	25	ug/L	25	26-Jun-2023 22:01
Ethylbenzene	**15**	J	**7.5**	**12**	**25**	**ug/L**	25	26-Jun-2023 22:01
Hexachlorobutadiene	12	U	25	12	25	ug/L	25	26-Jun-2023 22:01
Isopropylbenzene	12	U	7.5	12	25	ug/L	25	26-Jun-2023 22:01
m,p-Xylene	25	U	12	25	50	ug/L	25	26-Jun-2023 22:01
Methylene chloride	**74**		**10**	**12**	**50**	**ug/L**	25	26-Jun-2023 22:01
n-Butylbenzene	12	U	10	12	25	ug/L	25	26-Jun-2023 22:01
n-Propylbenzene	12	U	7.5	12	25	ug/L	25	26-Jun-2023 22:01
Naphthalene	12	U	7.5	12	25	ug/L	25	26-Jun-2023 22:01
o-Xylene	12	U	7.5	12	25	ug/L	25	26-Jun-2023 22:01
sec-Butylbenzene	12	U	7.5	12	25	ug/L	25	26-Jun-2023 22:01
Styrene	12	U	7.5	12	25	ug/L	25	26-Jun-2023 22:01
tert-Butylbenzene	12	U	7.5	12	25	ug/L	25	26-Jun-2023 22:01
Tetrachloroethene	**45**		**7.5**	**12**	**25**	**ug/L**	25	26-Jun-2023 22:01
Toluene	**16**	J	**5.0**	**12**	**25**	**ug/L**	25	26-Jun-2023 22:01
trans-1,2-Dichloroethene	**69**		**5.0**	**12**	**25**	**ug/L**	25	26-Jun-2023 22:01
trans-1,3-Dichloropropene	12	U	5.0	12	25	ug/L	25	26-Jun-2023 22:01
Trichloroethene	**5,400**		**50**	**120**	**250**	**ug/L**	250	26-Jun-2023 22:22
Trichlorofluoromethane	12	U	7.5	12	25	ug/L	25	26-Jun-2023 22:01
Vinyl chloride	**14**	J	**5.0**	**12**	**25**	**ug/L**	25	26-Jun-2023 22:01
Surr: 1,2-Dichloroethane-d4	*92.6*			**0**	*81-118*	*%REC*	*25*	*26-Jun-2023 22:01*
Surr: 1,2-Dichloroethane-d4	*90.9*			**0**	*81-118*	*%REC*	*250*	*26-Jun-2023 22:22*
Surr: 4-Bromofluorobenzene	*96.1*			**0**	*85-114*	*%REC*	*25*	*26-Jun-2023 22:01*
Surr: 4-Bromofluorobenzene	*96.2*			**0**	*85-114*	*%REC*	*250*	*26-Jun-2023 22:22*
Surr: Dibromofluoromethane	*94.6*			**0**	*80-119*	*%REC*	*25*	*26-Jun-2023 22:01*
Surr: Dibromofluoromethane	*94.5*			**0**	*80-119*	*%REC*	*250*	*26-Jun-2023 22:22*
Surr: Toluene-d8	*103*			**0**	*89-112*	*%REC*	*25*	*26-Jun-2023 22:01*
Surr: Toluene-d8	*104*			**0**	*89-112*	*%REC*	*250*	*26-Jun-2023 22:22*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 27-Jun-2023		Analyst: JL
1,4-Dioxane	**1.4**		**0.10**	**0.050**	**0.10**	**ug/L**	10	29-Jun-2023 16:24
Surr: 2-Fluorobiphenyl	*112*			**0**	*40-140*	*%REC*	*10*	*29-Jun-2023 16:24*
Surr: 4-Terphenyl-d14	*107*			**0**	*40-140*	*%REC*	*10*	*29-Jun-2023 16:24*
Surr: Nitrobenzene-d5	*124*			**0**	*40-140*	*%REC*	*10*	*29-Jun-2023 16:24*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: MW2_062323
Collection Date: 23-Jun-2023 09:10

ANALYTICAL REPORT
WorkOrder:HS23061712
Lab ID:HS23061712-07
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: KR
Subcontract Analysis	See Attached		0	0		NA	1	11-Jul-2023 11:01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: MW1_062323
Collection Date: 23-Jun-2023 12:50

ANALYTICAL REPORT
WorkOrder:HS23061712
Lab ID:HS23061712-08
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	10	U	6.0	10	20	ug/L	20	26-Jun-2023 21:19
1,1,1-Trichloroethane	10	U	4.0	10	20	ug/L	20	26-Jun-2023 21:19
1,1,2,2-Tetrachloroethane	10	U	10	10	20	ug/L	20	26-Jun-2023 21:19
1,1,2-Trichloroethane	10	U	6.0	10	20	ug/L	20	26-Jun-2023 21:19
1,1-Dichloroethane	10	U	4.0	10	20	ug/L	20	26-Jun-2023 21:19
1,1-Dichloroethene	10	U	4.0	10	20	ug/L	20	26-Jun-2023 21:19
1,1-Dichloropropene	10	U	6.0	10	20	ug/L	20	26-Jun-2023 21:19
1,2,3-Trichlorobenzene	10	U	8.0	10	20	ug/L	20	26-Jun-2023 21:19
1,2,3-Trichloropropane	10	U	10	10	20	ug/L	20	26-Jun-2023 21:19
1,2,4-Trichlorobenzene	10	U	10	10	20	ug/L	20	26-Jun-2023 21:19
1,2,4-Trimethylbenzene	10	U	6.0	10	20	ug/L	20	26-Jun-2023 21:19
1,2-Dibromo-3-chloropropane	10	U	4.0	10	20	ug/L	20	26-Jun-2023 21:19
1,2-Dibromoethane	10	U	4.0	10	20	ug/L	20	26-Jun-2023 21:19
1,2-Dichlorobenzene	10	U	10	10	20	ug/L	20	26-Jun-2023 21:19
1,2-Dichloroethane	**620**		**4.0**	**10**	**20**	**ug/L**	20	26-Jun-2023 21:19
1,2-Dichloropropane	10	U	10	10	20	ug/L	20	26-Jun-2023 21:19
1,3,5-Trimethylbenzene	10	U	6.0	10	20	ug/L	20	26-Jun-2023 21:19
1,3-Dichlorobenzene	10	U	8.0	10	20	ug/L	20	26-Jun-2023 21:19
1,3-Dichloropropane	10	U	6.0	10	20	ug/L	20	26-Jun-2023 21:19
1,4-Dichlorobenzene	10	U	8.0	10	20	ug/L	20	26-Jun-2023 21:19
2,2-Dichloropropane	10	U	4.0	10	20	ug/L	20	26-Jun-2023 21:19
2-Butanone	10	U	10	10	40	ug/L	20	26-Jun-2023 21:19
2-Chlorotoluene	10	U	6.0	10	20	ug/L	20	26-Jun-2023 21:19
2-Hexanone	10	U	20	10	40	ug/L	20	26-Jun-2023 21:19
4-Chlorotoluene	10	U	8.0	10	20	ug/L	20	26-Jun-2023 21:19
4-Isopropyltoluene	10	U	6.0	10	20	ug/L	20	26-Jun-2023 21:19
4-Methyl-2-pentanone	10	U	14	10	40	ug/L	20	26-Jun-2023 21:19
Acetone	10	U	8.0	10	40	ug/L	20	26-Jun-2023 21:19
Benzene	10	U	4.0	10	20	ug/L	20	26-Jun-2023 21:19
Bromobenzene	10	U	8.0	10	20	ug/L	20	26-Jun-2023 21:19
Bromochloromethane	10	U	4.0	10	20	ug/L	20	26-Jun-2023 21:19
Bromodichloromethane	10	U	4.0	10	20	ug/L	20	26-Jun-2023 21:19
Bromoform	10	U	8.0	10	20	ug/L	20	26-Jun-2023 21:19
Bromomethane	10	U	8.0	10	20	ug/L	20	26-Jun-2023 21:19
Carbon disulfide	10	U	12	10	40	ug/L	20	26-Jun-2023 21:19
Carbon tetrachloride	10	U	10	10	20	ug/L	20	26-Jun-2023 21:19
Chlorobenzene	10	U	6.0	10	20	ug/L	20	26-Jun-2023 21:19
Chloroethane	10	U	6.0	10	20	ug/L	20	26-Jun-2023 21:19
Chloroform	**21**		**4.0**	**10**	**20**	**ug/L**	20	26-Jun-2023 21:19

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: MW1_062323
Collection Date: 23-Jun-2023 12:50

ANALYTICAL REPORT
WorkOrder:HS23061712
Lab ID:HS23061712-08
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	10	U	4.0	10	20	ug/L	20	26-Jun-2023 21:19
cis-1,2-Dichloroethene	**9,100**		**40**	**100**	**200**	**ug/L**	200	26-Jun-2023 21:40
cis-1,3-Dichloropropene	10	U	4.0	10	20	ug/L	20	26-Jun-2023 21:19
Dibromochloromethane	10	U	6.0	10	20	ug/L	20	26-Jun-2023 21:19
Dibromomethane	10	U	4.0	10	20	ug/L	20	26-Jun-2023 21:19
Dichlorodifluoromethane	10	U	6.0	10	20	ug/L	20	26-Jun-2023 21:19
Ethylbenzene	10	U	6.0	10	20	ug/L	20	26-Jun-2023 21:19
Hexachlorobutadiene	10	U	20	10	20	ug/L	20	26-Jun-2023 21:19
Isopropylbenzene	10	U	6.0	10	20	ug/L	20	26-Jun-2023 21:19
m,p-Xylene	20	U	10	20	40	ug/L	20	26-Jun-2023 21:19
Methylene chloride	10	U	8.0	10	40	ug/L	20	26-Jun-2023 21:19
n-Butylbenzene	10	U	8.0	10	20	ug/L	20	26-Jun-2023 21:19
n-Propylbenzene	10	U	6.0	10	20	ug/L	20	26-Jun-2023 21:19
Naphthalene	10	U	6.0	10	20	ug/L	20	26-Jun-2023 21:19
o-Xylene	10	U	6.0	10	20	ug/L	20	26-Jun-2023 21:19
sec-Butylbenzene	10	U	6.0	10	20	ug/L	20	26-Jun-2023 21:19
Styrene	10	U	6.0	10	20	ug/L	20	26-Jun-2023 21:19
tert-Butylbenzene	10	U	6.0	10	20	ug/L	20	26-Jun-2023 21:19
Tetrachloroethene	10	U	6.0	10	20	ug/L	20	26-Jun-2023 21:19
Toluene	10	U	4.0	10	20	ug/L	20	26-Jun-2023 21:19
trans-1,2-Dichloroethene	**19**	J	**4.0**	**10**	**20**	**ug/L**	20	26-Jun-2023 21:19
trans-1,3-Dichloropropene	10	U	4.0	10	20	ug/L	20	26-Jun-2023 21:19
Trichloroethene	**9,400**		**40**	**100**	**200**	**ug/L**	200	26-Jun-2023 21:40
Trichlorofluoromethane	10	U	6.0	10	20	ug/L	20	26-Jun-2023 21:19
Vinyl chloride	10	U	4.0	10	20	ug/L	20	26-Jun-2023 21:19
Surr: 1,2-Dichloroethane-d4	*90.0*			**0**	*81-118*	*%REC*	*20*	*26-Jun-2023 21:19*
Surr: 1,2-Dichloroethane-d4	*90.6*			**0**	*81-118*	*%REC*	*200*	*26-Jun-2023 21:40*
Surr: 4-Bromofluorobenzene	*96.5*			**0**	*85-114*	*%REC*	*20*	*26-Jun-2023 21:19*
Surr: 4-Bromofluorobenzene	*94.5*			**0**	*85-114*	*%REC*	*200*	*26-Jun-2023 21:40*
Surr: Dibromofluoromethane	*93.9*			**0**	*80-119*	*%REC*	*20*	*26-Jun-2023 21:19*
Surr: Dibromofluoromethane	*94.2*			**0**	*80-119*	*%REC*	*200*	*26-Jun-2023 21:40*
Surr: Toluene-d8	*106*			**0**	*89-112*	*%REC*	*20*	*26-Jun-2023 21:19*
Surr: Toluene-d8	*103*			**0**	*89-112*	*%REC*	*200*	*26-Jun-2023 21:40*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: MW1_062323
Collection Date: 23-Jun-2023 12:50

ANALYTICAL REPORT
WorkOrder:HS23061712
Lab ID:HS23061712-08
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 06-Jul-2023		Analyst: JC
Aluminum	**0.00542**	J	**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	07-Jul-2023 16:59
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	07-Jul-2023 16:59
Arsenic	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	07-Jul-2023 16:59
Barium	**0.494**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 16:59
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 16:59
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 16:59
Calcium	**24.2**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	07-Jul-2023 16:59
Chromium	**0.0218**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 16:59
Cobalt	**0.0187**		**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	07-Jul-2023 16:59
Copper	**0.00137**	J	**0.00100**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 16:59
Iron	**0.924**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 16:59
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	07-Jul-2023 16:59
Magnesium	**20.7**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 16:59
Manganese	**0.671**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 16:59
Nickel	**1.36**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 16:59
Potassium	**2.14**		**0.0180**	**1.00**	**0.200**	**mg/L**	1	07-Jul-2023 16:59
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	07-Jul-2023 16:59
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	07-Jul-2023 16:59
Sodium	**190**		**0.280**	**1.00**	**4.00**	**mg/L**	20	07-Jul-2023 18:32
Thallium	**0.000636**	J	**0.000200**	**0.000500**	**0.00200**	**mg/L**	1	07-Jul-2023 16:59
Vanadium	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	07-Jul-2023 16:59
Zinc	0.00250	U	0.00200	0.00250	0.00500	mg/L	1	07-Jul-2023 16:59
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 11-Jul-2023		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	11-Jul-2023 13:57
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: KR
Subcontract Analysis	See Attached		0	0		NA	1	11-Jul-2023 11:01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: Trip Blank
Collection Date: 22-Jun-2023 00:00

ANALYTICAL REPORT
WorkOrder:HS23061712
Lab ID:HS23061712-09
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:28
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:28
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 17:28
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:28
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:28
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:28
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:28
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 17:28
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 17:28
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 17:28
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:28
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:28
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:28
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 17:28
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:28
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 17:28
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:28
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 17:28
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:28
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 17:28
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:28
2-Butanone	0.50	U	0.50	0.50	2.0	ug/L	1	26-Jun-2023 17:28
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:28
2-Hexanone	0.50	U	1.0	0.50	2.0	ug/L	1	26-Jun-2023 17:28
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 17:28
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:28
4-Methyl-2-pentanone	0.50	U	0.70	0.50	2.0	ug/L	1	26-Jun-2023 17:28
Acetone	0.50	U	0.40	0.50	2.0	ug/L	1	26-Jun-2023 17:28
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:28
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 17:28
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:28
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:28
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 17:28
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 17:28
Carbon disulfide	0.50	U	0.60	0.50	2.0	ug/L	1	26-Jun-2023 17:28
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 17:28
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:28
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:28
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:28

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: Trip Blank
Collection Date: 22-Jun-2023 00:00

ANALYTICAL REPORT
WorkOrder:HS23061712
Lab ID:HS23061712-09
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:28
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:28
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:28
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:28
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:28
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:28
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:28
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	26-Jun-2023 17:28
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:28
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	26-Jun-2023 17:28
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	26-Jun-2023 17:28
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 17:28
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:28
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:28
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:28
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:28
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:28
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:28
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:28
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:28
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:28
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:28
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:28
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:28
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:28
Surr: 1,2-Dichloroethane-d4	*93.7*			**0**	*81-118*	*%REC*	*1*	*26-Jun-2023 17:28*
Surr: 4-Bromofluorobenzene	*97.2*			**0**	*85-114*	*%REC*	*1*	*26-Jun-2023 17:28*
Surr: Dibromofluoromethane	*95.4*			**0**	*80-119*	*%REC*	*1*	*26-Jun-2023 17:28*
Surr: Toluene-d8	*104*			**0**	*89-112*	*%REC*	*1*	*26-Jun-2023 17:28*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

Batch ID: 196799 **Start Date:** 27 Jun 2023 14:47 **End Date:** 27 Jun 2023 14:47
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_SIM

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23061712-01	1	1000 (mL)	1 (mL)	0.001	1-L glass, Neat
HS23061712-02	1	1000 (mL)	1 (mL)	0.001	1-L glass, Neat
HS23061712-05	1	1000 (mL)	1 (mL)	0.001	1-L glass, Neat
HS23061712-06	1	1000 (mL)	1 (mL)	0.001	1-L glass, Neat
HS23061712-07	1	1000 (mL)	1 (mL)	0.001	1-L glass, Neat

Batch ID: 197198 **Start Date:** 06 Jul 2023 14:00 **End Date:** 06 Jul 2023 14:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23061712-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23061712-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23061712-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23061712-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23061712-08		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 197408 **Start Date:** 11 Jul 2023 08:00 **End Date:** 11 Jul 2023 08:00
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23061712-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23061712-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23061712-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23061712-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23061712-08		10 (mL)	10 (mL)	1	120 plastic HNO3

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 196799 (0)	**Test Name :** SEMIVOLATILES SIM				**Matrix:** Water	
HS23061712-01	1824DPTMW05_062223	22 Jun 2023 10:30		27 Jun 2023 14:47	29 Jun 2023 16:06	100
HS23061712-02	18CPTMW10SW_062223	22 Jun 2023 13:35		27 Jun 2023 14:47	29 Jun 2023 14:27	1
HS23061712-05	18CPTMW01SW_062223	23 Jun 2023 11:40		27 Jun 2023 14:47	29 Jun 2023 14:45	1
HS23061712-06	18CPTMW01DW_062323	23 Jun 2023 10:20		27 Jun 2023 14:47	29 Jun 2023 15:03	1
HS23061712-07	MW2_062323	23 Jun 2023 09:10		27 Jun 2023 14:47	29 Jun 2023 16:24	10
Batch ID: 197198 (0)	**Test Name :** METALS BY ICPMS BY SW6020A				**Matrix:** Water	
HS23061712-03	18CPTMW10DW_062223	22 Jun 2023 15:40		06 Jul 2023 14:00	07 Jul 2023 17:39	1
HS23061712-04	18CPTMW10DW_062223_a	22 Jun 2023 15:40		06 Jul 2023 14:00	07 Jul 2023 17:47	1
HS23061712-05	18CPTMW01SW_062223	23 Jun 2023 11:40		06 Jul 2023 14:00	07 Jul 2023 17:49	1
HS23061712-06	18CPTMW01DW_062323	23 Jun 2023 10:20		06 Jul 2023 14:00	07 Jul 2023 18:44	20
HS23061712-06	18CPTMW01DW_062323	23 Jun 2023 10:20		06 Jul 2023 14:00	07 Jul 2023 17:51	1
HS23061712-08	MW1_062323	23 Jun 2023 12:50		06 Jul 2023 14:00	07 Jul 2023 18:32	20
HS23061712-08	MW1_062323	23 Jun 2023 12:50		06 Jul 2023 14:00	07 Jul 2023 16:59	1
Batch ID: 197408 (0)	**Test Name :** MERCURY BY SW7470A				**Matrix:** Water	
HS23061712-03	18CPTMW10DW_062223	22 Jun 2023 15:40		11 Jul 2023 08:00	11 Jul 2023 13:51	1
HS23061712-04	18CPTMW10DW_062223_a	22 Jun 2023 15:40		11 Jul 2023 08:00	11 Jul 2023 13:52	1
HS23061712-05	18CPTMW01SW_062223	23 Jun 2023 11:40		11 Jul 2023 08:00	11 Jul 2023 13:54	1
HS23061712-06	18CPTMW01DW_062323	23 Jun 2023 10:20		11 Jul 2023 08:00	11 Jul 2023 13:56	1
HS23061712-08	MW1_062323	23 Jun 2023 12:50		11 Jul 2023 08:00	11 Jul 2023 13:57	1
Batch ID: R439909 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS23061712-01	1824DPTMW05_062223	22 Jun 2023 10:30			26 Jun 2023 20:58	25
HS23061712-03	18CPTMW10DW_062223	22 Jun 2023 15:40			26 Jun 2023 15:21	1
HS23061712-04	18CPTMW10DW_062223_a	22 Jun 2023 15:40			26 Jun 2023 15:42	1
HS23061712-06	18CPTMW01DW_062323	23 Jun 2023 10:20			26 Jun 2023 20:37	1
HS23061712-07	MW2_062323	23 Jun 2023 09:10			26 Jun 2023 22:22	250
HS23061712-07	MW2_062323	23 Jun 2023 09:10			26 Jun 2023 22:01	25
HS23061712-08	MW1_062323	23 Jun 2023 12:50			26 Jun 2023 21:40	200
HS23061712-08	MW1_062323	23 Jun 2023 12:50			26 Jun 2023 21:19	20
HS23061712-09	Trip Blank	22 Jun 2023 00:00			26 Jun 2023 17:28	1
Batch ID: R440138 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS23061712-01	1824DPTMW05_062223	22 Jun 2023 10:30			28 Jun 2023 15:48	100
HS23061712-02	18CPTMW10SW_062223	22 Jun 2023 13:35			28 Jun 2023 14:23	1
HS23061712-05	18CPTMW01SW_062223	23 Jun 2023 11:40			28 Jun 2023 14:44	1
Batch ID: R440247 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS23061712-05	18CPTMW01SW_062223	23 Jun 2023 11:40			29 Jun 2023 16:18	200

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R440972 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Water	
HS23061712-01	1824DPTMW05_062223	22 Jun 2023 10:30			11 Jul 2023 11:01	1
HS23061712-02	18CPTMW10SW_062223	22 Jun 2023 13:35			11 Jul 2023 11:01	1
HS23061712-03	18CPTMW10DW_062223	22 Jun 2023 15:40			11 Jul 2023 11:01	1
HS23061712-04	18CPTMW10DW_062223_a	22 Jun 2023 15:40			11 Jul 2023 11:01	1
HS23061712-05	18CPTMW01SW_062223	23 Jun 2023 11:40			11 Jul 2023 11:01	1
HS23061712-06	18CPTMW01DW_062323	23 Jun 2023 10:20			11 Jul 2023 11:01	1
HS23061712-07	MW2_062323	23 Jun 2023 09:10			11 Jul 2023 11:01	1
HS23061712-08	MW1_062323	23 Jun 2023 12:50			11 Jul 2023 11:01	1

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

QC BATCH REPORT

Batch ID: 197198 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

MBLK Sample ID: **MBLK-197198** Units: **mg/L** Analysis Date: **07-Jul-2023 16:55**
Client ID: Run ID: **ICPMS06_440735** SeqNo: **7407791** PrepDate: **06-Jul-2023** 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	0.000737	0.00500								J
Nickel	0.00125	0.00500								U
Potassium	1.00	0.200								U
Selenium	0.00250	0.00500								U
Silver	0.000500	0.00500								U
Sodium	0.02611	0.200								J
Thallium	0.000500	0.00200								U
Vanadium	0.00125	0.00500								U
Zinc	0.00250	0.00500								U

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

QC BATCH REPORT

Batch ID: 197198 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

LCS Sample ID: **LCS-197198** Units: **mg/L** Analysis Date: **07-Jul-2023 16:57**
Client ID: Run ID: **ICPMS06_440735** SeqNo: **7407792** PrepDate: **06-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1016	0.0100	0.1	0	102	84 - 117				
Antimony	0.04562	0.00500	0.05	0	91.2	85 - 117				
Arsenic	0.04475	0.00500	0.05	0	89.5	84 - 116				
Barium	0.04351	0.00500	0.05	0	87.0	86 - 114				
Beryllium	0.04595	0.00200	0.05	0	91.9	83 - 121				
Cadmium	0.04446	0.00200	0.05	0	88.9	87 - 115				
Calcium	4.857	0.500	5	0	97.1	87 - 118				
Chromium	0.04428	0.00500	0.05	0	88.6	85 - 116				
Cobalt	0.04416	0.00500	0.05	0	88.3	86 - 115				
Copper	0.04532	0.00500	0.05	0	90.6	85 - 118				
Iron	4.675	0.200	5	0	93.5	87 - 118				
Magnesium	4.84	0.200	5	0	96.8	83 - 118				
Manganese	0.04525	0.00500	0.05	0	90.5	87 - 115				
Nickel	0.04568	0.00500	0.05	0	91.4	85 - 117				
Potassium	4.797	0.200	5	0	95.9	87 - 115				
Selenium	0.04497	0.00500	0.05	0	89.9	80 - 120				
Silver	0.04457	0.00500	0.05	0	89.1	85 - 116				
Sodium	4.773	0.200	5	0	95.5	85 - 117				
Vanadium	0.04433	0.00500	0.05	0	88.7	86 - 115				
Zinc	0.04719	0.00500	0.05	0	94.4	83 - 119				

LCS Sample ID: **LCS-197198** Units: **mg/L** Analysis Date: **07-Jul-2023 18:28**
Client ID: Run ID: **ICPMS06_440735** SeqNo: **7407895** PrepDate: **06-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	0.0474	0.00500	0.05	0	94.8	88 - 115				
Thallium	0.04474	0.00200	0.05	0	89.5	82 - 116				

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

QC BATCH REPORT

Batch ID: 197198 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

MS Sample ID: **HS23061712-08MS** Units: **mg/L** Analysis Date: **07-Jul-2023 17:03**
Client ID: **MW1_062323** Run ID: **ICPMS06_440735** SeqNo: **7407795** PrepDate: **06-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Aluminum	0.09509	0.0100	0.1	0.005422	89.7	84 - 117			
Antimony	0.04505	0.00500	0.05	0.000106	89.9	85 - 117			
Arsenic	0.04542	0.00500	0.05	0.000167	90.5	84 - 116			
Barium	0.5178	0.00500	0.05	0.4937	48.1	86 - 114			SO
Beryllium	0.04778	0.00200	0.05	0.000003	95.6	83 - 121			
Cadmium	0.04469	0.00200	0.05	0.00012	89.1	87 - 115			
Calcium	28.51	0.500	5	24.2	86.1	87 - 118			SO
Chromium	0.06521	0.00500	0.05	0.02175	86.9	85 - 116			
Cobalt	0.06097	0.00500	0.05	0.01869	84.6	86 - 115			S
Copper	0.04422	0.00500	0.05	0.001373	85.7	85 - 118			
Iron	5.463	0.200	5	0.9238	90.8	87 - 118			
Magnesium	25.04	0.200	5	20.72	86.3	83 - 118			O
Manganese	0.6867	0.00500	0.05	0.6707	32.0	87 - 115			SO
Nickel	1.381	0.00500	0.05	1.357	49.1	85 - 117			SO
Potassium	6.671	0.200	5	2.144	90.5	87 - 115			
Selenium	0.04458	0.00500	0.05	-0.000058	89.3	80 - 120			
Silver	0.04385	0.00500	0.05	0.00001	87.7	85 - 116			
Sodium	195.6	0.200	5	194	31.6	85 - 117			SEO
Vanadium	0.04448	0.00500	0.05	0.00013	88.7	86 - 115			
Zinc	0.04651	0.00500	0.05	0.00189	89.2	83 - 119			

MS Sample ID: **HS23061712-08MS** Units: **mg/L** Analysis Date: **07-Jul-2023 18:09**
Client ID: **MW1_062323** Run ID: **ICPMS06_440735** SeqNo: **7407889** PrepDate: **06-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Lead	0.04924	0.00500	0.05	0	98.5	88 - 115			
Thallium	0.04939	0.00200	0.05	0.000636	97.5	82 - 116			

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

QC BATCH REPORT

Batch ID: 197198 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

MSD Sample ID: **HS23061712-08MSD** Units: **mg/L** Analysis Date: **07-Jul-2023 17:05**
Client ID: **MW1_062323** Run ID: **ICPMS06_440735** SeqNo: **7407796** PrepDate: **06-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.09607	0.0100	0.1	0.005422	90.7	84 - 117	0.09509	1.03	20	
Antimony	0.04592	0.00500	0.05	0.000106	91.6	85 - 117	0.04505	1.91	20	
Arsenic	0.04624	0.00500	0.05	0.000167	92.2	84 - 116	0.04542	1.79	20	
Barium	0.5331	0.00500	0.05	0.4937	78.8	86 - 114	0.5178	2.92	20	SO
Beryllium	0.04702	0.00200	0.05	0.000003	94.0	83 - 121	0.04778	1.61	20	
Cadmium	0.046	0.00200	0.05	0.00012	91.8	87 - 115	0.04469	2.9	20	
Calcium	29.1	0.500	5	24.2	97.9	87 - 118	28.51	2.05	20	O
Chromium	0.0658	0.00500	0.05	0.02175	88.1	85 - 116	0.06521	0.893	20	
Cobalt	0.06114	0.00500	0.05	0.01869	84.9	86 - 115	0.06097	0.28	20	S
Copper	0.04503	0.00500	0.05	0.001373	87.3	85 - 118	0.04422	1.82	20	
Iron	5.518	0.200	5	0.9238	91.9	87 - 118	5.463	1.02	20	
Lead	0.04484	0.00500	0.05	0.00001	89.6	88 - 115	0.0438	2.34	20	
Magnesium	25.17	0.200	5	20.72	88.9	83 - 118	25.04	0.508	20	O
Manganese	0.6945	0.00500	0.05	0.6707	47.6	87 - 115	0.6867	1.13	20	SO
Nickel	1.389	0.00500	0.05	1.357	64.4	85 - 117	1.381	0.552	20	SO
Potassium	6.734	0.200	5	2.144	91.8	87 - 115	6.671	0.936	20	
Selenium	0.0457	0.00500	0.05	-0.000058	91.5	80 - 120	0.04458	2.47	20	
Silver	0.04409	0.00500	0.05	0.00001	88.2	85 - 116	0.04385	0.539	20	
Sodium	197.3	0.200	5	194	67.0	85 - 117	195.6	0.902	20	SEO
Thallium	0.0424	0.00200	0.05	0.000636	83.5	82 - 116	0.04061	4.31	20	
Vanadium	0.04468	0.00500	0.05	0.00013	89.1	86 - 115	0.04448	0.437	20	
Zinc	0.04747	0.00500	0.05	0.00189	91.2	83 - 119	0.04651	2.04	20	

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

QC BATCH REPORT

Batch ID: 197198 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

PDS Sample ID: **HS23061712-08PDS** Units: **mg/L** Analysis Date: **07-Jul-2023 17:07**
Client ID: **MW1_062323** Run ID: **ICPMS06_440735** SeqNo: **7407797** PrepDate: **06-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1012	0.0100	0.1	0.005422	95.8	80 - 120				
Antimony	0.09021	0.00500	0.1	0.000106	90.1	80 - 120				
Arsenic	0.09531	0.00500	0.1	0.000167	95.1	80 - 120				
Barium	0.5863	0.00500	0.1	0.4937	92.5	80 - 120				O
Beryllium	0.09768	0.00200	0.1	0.000003	97.7	80 - 120				
Cadmium	0.09695	0.00200	0.1	0.00012	96.8	80 - 120				
Calcium	33.27	0.500	10	24.2	90.6	80 - 120				
Chromium	0.1131	0.00500	0.1	0.02175	91.4	80 - 120				
Cobalt	0.1116	0.00500	0.1	0.01869	92.9	80 - 120				
Copper	0.09121	0.00500	0.1	0.001373	89.8	80 - 120				
Iron	10.48	0.200	10	0.9238	95.5	80 - 120				
Lead	0.09266	0.00500	0.1	0.00001	92.6	80 - 120				
Magnesium	30.57	0.200	10	20.72	98.5	80 - 120				
Manganese	0.7461	0.00500	0.1	0.6707	75.4	80 - 120				SO
Nickel	1.422	0.00500	0.1	1.357	65.3	80 - 120				SO
Potassium	11.87	0.200	10	2.144	97.3	80 - 120				
Selenium	0.09544	0.00500	0.1	-0.000058	95.5	80 - 120				
Silver	0.09628	0.00500	0.1	0.00001	96.3	80 - 120				
Thallium	0.1037	0.00200	0.1	0.000636	103	80 - 120				
Vanadium	0.09273	0.00500	0.1	0.00013	92.6	80 - 120				
Zinc	0.09599	0.00500	0.1	0.00189	94.1	80 - 120				

PDS Sample ID: **HS23061712-08PDS** Units: **mg/L** Analysis Date: **07-Jul-2023 18:36**
Client ID: **MW1_062323** Run ID: **ICPMS06_440735** SeqNo: **7407899** PrepDate: **06-Jul-2023** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium	377.8	4.00	200	190.4	93.7	80 - 120				

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

QC BATCH REPORT

Batch ID: 197198 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

SD Sample ID: **HS23061712-08SD** Units: **mg/L** Analysis Date: **07-Jul-2023 17:01**
Client ID: **MW1_062323** Run ID: **ICPMS06_440735** SeqNo: **7407794** PrepDate: **06-Jul-2023** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Aluminum	0.01117	0.0500					0.005422	0	10	J
Antimony	0.00625	0.0250					0.000106	0	10	U
Arsenic	0.00625	0.0250					0.000167	0	10	U
Barium	0.4803	0.0250					0.4937	2.72	10	
Beryllium	0.00250	0.0100					0.000003	0	10	U
Cadmium	0.00250	0.0100					0.00012	0	10	U
Calcium	23.48	2.50					24.2	2.97	10	
Chromium	0.0213	0.0250					0.02175	0	10	J
Cobalt	0.01822	0.0250					0.01869	0	10	J
Copper	0.0125	0.0250					0.001373	0	10	U
Iron	0.9238	1.00					0.9238	0	10	J
Lead	0.00625	0.0250					0.00001	0	10	U
Magnesium	20.14	1.00					20.72	2.81	10	
Manganese	0.667	0.0250					0.6707	0.548	10	
Nickel	1.355	0.0250					1.357	0.0906	10	
Potassium	2.095	1.00					2.144	2.3	10	
Selenium	0.0125	0.0250					-0.000058	0	10	U
Silver	0.00250	0.0250					0.00001	0	10	U
Thallium	0.00250	0.0100					0.000636	0	10	U
Vanadium	0.00625	0.0250					0.00013	0	10	U
Zinc	0.0125	0.0250					0.00189	0	10	U

SD Sample ID: **HS23061712-08SD** Units: **mg/L** Analysis Date: **07-Jul-2023 18:34**
Client ID: **MW1_062323** Run ID: **ICPMS06_440735** SeqNo: **7407898** PrepDate: **06-Jul-2023** DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Sodium	197.1	20.0					190.4	3.53	10	

The following samples were analyzed in this batch: HS23061712-03 HS23061712-04 HS23061712-05 HS23061712-06 HS23061712-08

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

QC BATCH REPORT

Batch ID: 197408 (0) **Instrument: HG04** **Method: MERCURY BY SW7470A**

MBLK Sample ID: **MBLK-197408** Units: **mg/L** Analysis Date: **11-Jul-2023 13:47**
Client ID: Run ID: **HG04_441015** SeqNo: **7419235** PrepDate: **11-Jul-2023** 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-197408** Units: **mg/L** Analysis Date: **11-Jul-2023 13:49**
Client ID: Run ID: **HG04_441015** SeqNo: **7419236** PrepDate: **11-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00560	0.000200	0.005	0	112	82 - 119				

MS Sample ID: **HS23061825-05MS** Units: **mg/L** Analysis Date: **11-Jul-2023 14:45**
Client ID: Run ID: **HG04_441015** SeqNo: **7419262** PrepDate: **11-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00519	0.000200	0.005	0.00001000	104	82 - 119				

MS Sample ID: **HS23061712-08MS** Units: **mg/L** Analysis Date: **11-Jul-2023 13:59**
Client ID: **MW1_062323** Run ID: **HG04_441015** SeqNo: **7419242** PrepDate: **11-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00506	0.000200	0.005	0.00001300	101	82 - 119				

MSD Sample ID: **HS23061825-05MSD** Units: **mg/L** Analysis Date: **11-Jul-2023 14:47**
Client ID: Run ID: **HG04_441015** SeqNo: **7419263** PrepDate: **11-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00498	0.000200	0.005	0.00001000	99.4	82 - 119	0.005190	4.13	20	

MSD Sample ID: **HS23061712-08MSD** Units: **mg/L** Analysis Date: **11-Jul-2023 14:01**
Client ID: **MW1_062323** Run ID: **HG04_441015** SeqNo: **7419243** PrepDate: **11-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00479	0.000200	0.005	0.00001300	95.5	82 - 119	0.005060	5.48	20	

The following samples were analyzed in this batch: HS23061712-03 HS23061712-04 HS23061712-05 HS23061712-06 HS23061712-08

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

QC BATCH REPORT

Batch ID: 196799 (0) **Instrument: SV-6** **Method: SEMIVOLATILES SIM**

MBLK Sample ID: **MBLK-196799** Units: **ug/L** Analysis Date: **29-Jun-2023 11:25**
Client ID: Run ID: **SV-6_440304** SeqNo: **7395327** PrepDate: **27-Jun-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.0050	0.030								U
Surr: 2-Fluorobiphenyl	*0.09294*	*0*	*0.08*	*0*	*116*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.09052*	*0*	*0.08*	*0*	*113*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.09184*	*0*	*0.08*	*0*	*115*	*40 - 140*				

LCS Sample ID: **LCS1-196799** Units: **ug/L** Analysis Date: **29-Jun-2023 11:43**
Client ID: Run ID: **SV-6_440304** SeqNo: **7395328** PrepDate: **27-Jun-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.07214	0.030	0.08	0	90.2	40 - 140				
Surr: 2-Fluorobiphenyl	*0.0897*	*0*	*0.08*	*0*	*112*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.09058*	*0*	*0.08*	*0*	*113*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.09084*	*0*	*0.08*	*0*	*114*	*40 - 140*				

LCSD Sample ID: **LCSD1-196799** Units: **ug/L** Analysis Date: **29-Jun-2023 12:01**
Client ID: Run ID: **SV-6_440304** SeqNo: **7395329** PrepDate: **27-Jun-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.08194	0.030	0.08	0	102	40 - 140	0.07214	12.7	20	
Surr: 2-Fluorobiphenyl	*0.09409*	*0*	*0.08*	*0*	*118*	*40 - 140*	*0.0897*	*4.78*	*20*	
Surr: 4-Terphenyl-d14	*0.0909*	*0*	*0.08*	*0*	*114*	*40 - 140*	*0.09058*	*0.359*	*20*	
Surr: Nitrobenzene-d5	*0.089*	*0*	*0.08*	*0*	*111*	*40 - 140*	*0.09084*	*2.05*	*20*	

The following samples were analyzed in this batch: HS23061712-01 HS23061712-02 HS23061712-05 HS23061712-06 HS23061712-07

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

QC BATCH REPORT

Batch ID: R439909 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-230626** Units: **ug/L** Analysis Date: **26-Jun-2023 14:39**
Client ID: Run ID: **VOA6_439909** SeqNo: **7385759** 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	0.50	2.0								U
2-Chlorotoluene	0.50	1.0								U
2-Hexanone	0.50	2.0								U
4-Chlorotoluene	0.50	1.0								U
4-Isopropyltoluene	0.50	1.0								U
4-Methyl-2-pentanone	0.50	2.0								U
Acetone	0.50	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

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

QC BATCH REPORT

Batch ID: R439909 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-230626** Units: **ug/L** Analysis Date: **26-Jun-2023 14:39**
Client ID: Run ID: **VOA6_439909** SeqNo: **7385759** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	0.50	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	*46.2*	*1.0*	*50*	*0*	*92.4*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*48.71*	*1.0*	*50*	*0*	*97.4*	*85 - 114*				
Surr: Dibromofluoromethane	*47.26*	*1.0*	*50*	*0*	*94.5*	*80 - 119*				
Surr: Toluene-d8	*51.65*	*1.0*	*50*	*0*	*103*	*89 - 112*				

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

QC BATCH REPORT

Batch ID: R439909 (0) **Instrument: VOA6** **Method: VOLATILES ORGANICS BY METHOD 8260C**

LCS Sample ID: **VLCSW-230626** Units: **ug/L** Analysis Date: **26-Jun-2023 13:57**
Client ID: Run ID: **VOA6_439909** SeqNo: **7385758** 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	19.93	1.0	20	0	99.6	78 - 124				
1,1,1-Trichloroethane	19.4	1.0	20	0	97.0	74 - 131				
1,1,2,2-Tetrachloroethane	18.21	1.0	20	0	91.0	71 - 121				
1,1,2-Trichloroethane	19.8	1.0	20	0	99.0	80 - 119				
1,1-Dichloroethane	19.05	1.0	20	0	95.3	77 - 125				
1,1-Dichloroethene	19.53	1.0	20	0	97.7	71 - 131				
1,1-Dichloropropene	20.11	1.0	20	0	101	78 - 125				
1,2,3-Trichlorobenzene	20.47	1.0	20	0	102	69 - 129				
1,2,3-Trichloropropane	18.95	1.0	20	0	94.7	73 - 122				
1,2,4-Trichlorobenzene	20.72	1.0	20	0	104	69 - 130				
1,2,4-Trimethylbenzene	20.3	1.0	20	0	101	76 - 124				
1,2-Dibromo-3-chloropropane	19.83	1.0	20	0	99.1	62 - 128				
1,2-Dibromoethane	20.19	1.0	20	0	101	77 - 121				
1,2-Dichlorobenzene	20.37	1.0	20	0	102	80 - 119				
1,2-Dichloroethane	20.46	1.0	20	0	102	73 - 128				
1,2-Dichloropropane	20.12	1.0	20	0	101	78 - 122				
1,3,5-Trimethylbenzene	20.08	1.0	20	0	100	75 - 124				
1,3-Dichlorobenzene	20.13	1.0	20	0	101	80 - 119				
1,3-Dichloropropane	19.76	1.0	20	0	98.8	80 - 119				
1,4-Dichlorobenzene	19.68	1.0	20	0	98.4	79 - 118				
2,2-Dichloropropane	20.81	1.0	20	0	104	60 - 139				
2-Butanone	36.07	2.0	40	0	90.2	56 - 143				
2-Chlorotoluene	19.56	1.0	20	0	97.8	79 - 122				
2-Hexanone	39.18	2.0	40	0	98.0	57 - 139				
4-Chlorotoluene	20.58	1.0	20	0	103	78 - 122				
4-Isopropyltoluene	20.31	1.0	20	0	102	77 - 127				
4-Methyl-2-pentanone	37.9	2.0	40	0	94.7	67 - 130				
Acetone	40.71	2.0	40	0	102	39 - 160				
Benzene	19.87	1.0	20	0	99.3	79 - 120				
Bromobenzene	20.5	1.0	20	0	103	80 - 120				
Bromochloromethane	19.29	1.0	20	0	96.5	78 - 123				
Bromodichloromethane	19.6	1.0	20	0	98.0	79 - 125				
Bromoform	20.23	1.0	20	0	101	66 - 130				
Bromomethane	20.93	1.0	20	0	105	53 - 141				

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

QC BATCH REPORT

Batch ID: R439909 (0) **Instrument: VOA6** **Method: VOLATILES ORGANICS BY METHOD 8260C**

LCS Sample ID: **VLCSW-230626** Units: **ug/L** Analysis Date: **26-Jun-2023 13:57**
Client ID: Run ID: **VOA6_439909** SeqNo: **7385758** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	37.11	2.0	40	0	92.8	64 - 133				
Carbon tetrachloride	20.39	1.0	20	0	102	72 - 136				
Chlorobenzene	20.39	1.0	20	0	102	82 - 118				
Chloroethane	20.11	1.0	20	0	101	60 - 138				
Chloroform	18.87	1.0	20	0	94.3	79 - 124				
Chloromethane	20.56	1.0	20	0	103	50 - 139				
cis-1,2-Dichloroethene	19.3	1.0	20	0	96.5	78 - 123				
cis-1,3-Dichloropropene	20	1.0	20	0	100	75 - 124				
Dibromochloromethane	20.19	1.0	20	0	101	74 - 126				
Dibromomethane	20.37	1.0	20	0	102	79 - 123				
Dichlorodifluoromethane	18.13	1.0	20	0	90.6	32 - 152				
Ethylbenzene	20.24	1.0	20	0	101	79 - 121				
Hexachlorobutadiene	20.65	1.0	20	0	103	66 - 134				
Isopropylbenzene	20.21	1.0	20	0	101	72 - 131				
m,p-Xylene	42.18	2.0	40	0	105	80 - 121				
Methylene chloride	18.12	2.0	20	0	90.6	74 - 124				
Naphthalene	19.86	1.0	20	0	99.3	61 - 128				
n-Butylbenzene	20.57	1.0	20	0	103	75 - 128				
n-Propylbenzene	20.15	1.0	20	0	101	76 - 126				
o-Xylene	20.55	1.0	20	0	103	78 - 122				
sec-Butylbenzene	19.87	1.0	20	0	99.3	77 - 126				
Styrene	20.77	1.0	20	0	104	78 - 123				
tert-Butylbenzene	20.19	1.0	20	0	101	78 - 124				
Tetrachloroethene	20.85	1.0	20	0	104	74 - 129				
Toluene	20.38	1.0	20	0	102	80 - 121				
trans-1,2-Dichloroethene	19.25	1.0	20	0	96.2	75 - 124				
trans-1,3-Dichloropropene	20.27	1.0	20	0	101	73 - 127				
Trichloroethene	20.58	1.0	20	0	103	79 - 123				
Trichlorofluoromethane	20.45	1.0	20	0	102	65 - 141				
Vinyl chloride	18.71	1.0	20	0	93.5	58 - 137				
Surr: 1,2-Dichloroethane-d4	*50.44*	*1.0*	*50*	*0*	*101*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*50.41*	*1.0*	*50*	*0*	*101*	*85 - 114*				
Surr: Dibromofluoromethane	*50.44*	*1.0*	*50*	*0*	*101*	*80 - 119*				
Surr: Toluene-d8	*49.18*	*1.0*	*50*	*0*	*98.4*	*89 - 112*				

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

QC BATCH REPORT

Batch ID: R439909 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23061712-08MS** Units: **ug/L** Analysis Date: **26-Jun-2023 22:44**
Client ID: **MW1_062323** Run ID: **VOA6_439909** SeqNo: **7386286** PrepDate: DF: **200**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	4396	200	4000	0	110	78 - 124				
1,1,1-Trichloroethane	4047	200	4000	0	101	74 - 131				
1,1,2,2-Tetrachloroethane	4134	200	4000	0	103	71 - 121				
1,1,2-Trichloroethane	4225	200	4000	0	106	80 - 119				
1,1-Dichloroethane	3751	200	4000	0	93.8	77 - 125				
1,1-Dichloroethene	4102	200	4000	0	103	71 - 131				
1,1-Dichloropropene	4429	200	4000	0	111	78 - 125				
1,2,3-Trichlorobenzene	4721	200	4000	0	118	69 - 129				
1,2,3-Trichloropropane	4271	200	4000	0	107	73 - 122				
1,2,4-Trichlorobenzene	4805	200	4000	0	120	69 - 130				
1,2,4-Trimethylbenzene	4795	200	4000	0	120	76 - 124				
1,2-Dibromo-3-chloropropane	4354	200	4000	0	109	62 - 128				
1,2-Dibromoethane	4218	200	4000	0	105	77 - 121				
1,2-Dichlorobenzene	4657	200	4000	0	116	80 - 119				
1,2-Dichloroethane	4661	200	4000	671.3	99.7	73 - 128				
1,2-Dichloropropane	4069	200	4000	0	102	78 - 122				
1,3,5-Trimethylbenzene	4810	200	4000	0	120	75 - 124				
1,3-Dichlorobenzene	4691	200	4000	0	117	80 - 119				
1,3-Dichloropropane	4234	200	4000	0	106	80 - 119				
1,4-Dichlorobenzene	4573	200	4000	0	114	79 - 118				
2,2-Dichloropropane	3887	200	4000	0	97.2	60 - 139				
2-Butanone	6170	400	8000	0	77.1	56 - 143				
2-Chlorotoluene	4672	200	4000	0	117	79 - 122				
2-Hexanone	7769	400	8000	0	97.1	57 - 139				
4-Chlorotoluene	4666	200	4000	0	117	78 - 122				
4-Isopropyltoluene	5015	200	4000	0	125	77 - 127				
4-Methyl-2-pentanone	7903	400	8000	0	98.8	67 - 130				
Acetone	5906	400	8000	0	73.8	39 - 160				
Benzene	4183	200	4000	0	105	79 - 120				
Bromobenzene	4677	200	4000	0	117	80 - 120				
Bromochloromethane	3847	200	4000	0	96.2	78 - 123				
Bromodichloromethane	4030	200	4000	0	101	79 - 125				
Bromoform	4269	200	4000	0	107	66 - 130				
Bromomethane	4100	200	4000	0	103	53 - 141				

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

QC BATCH REPORT

Batch ID: R439909 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23061712-08MS** Units: **ug/L** Analysis Date: **26-Jun-2023 22:44**
Client ID: **MW1_062323** Run ID: **VOA6_439909** SeqNo: **7386286** PrepDate: DF: **200**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	6965	400	8000	0	87.1	64 - 133				
Carbon tetrachloride	4562	200	4000	0	114	72 - 136				
Chlorobenzene	4567	200	4000	0	114	82 - 118				
Chloroethane	3955	200	4000	0	98.9	60 - 138				
Chloroform	3673	200	4000	0	91.8	79 - 124				
Chloromethane	3752	200	4000	0	93.8	50 - 139				
cis-1,2-Dichloroethene	12650	200	4000	9060	89.7	78 - 123				
cis-1,3-Dichloropropene	4003	200	4000	0	100	75 - 124				
Dibromochloromethane	4312	200	4000	0	108	74 - 126				
Dibromomethane	4083	200	4000	0	102	79 - 123				
Dichlorodifluoromethane	3311	200	4000	0	82.8	32 - 152				
Ethylbenzene	4682	200	4000	0	117	79 - 121				
Hexachlorobutadiene	5284	200	4000	0	132	66 - 134				
Isopropylbenzene	4835	200	4000	0	121	72 - 131				
m,p-Xylene	9697	400	8000	0	121	80 - 121				S
Methylene chloride	3658	400	4000	0	91.5	74 - 124				
Naphthalene	4481	200	4000	0	112	61 - 128				
n-Butylbenzene	5075	200	4000	0	127	75 - 128				
n-Propylbenzene	4977	200	4000	0	124	76 - 126				
o-Xylene	4609	200	4000	0	115	78 - 122				
sec-Butylbenzene	5058	200	4000	0	126	77 - 126				S
Styrene	4650	200	4000	0	116	78 - 123				
tert-Butylbenzene	5049	200	4000	0	126	78 - 124				S
Tetrachloroethene	4931	200	4000	0	123	74 - 129				
Toluene	4616	200	4000	0	115	80 - 121				
trans-1,2-Dichloroethene	3922	200	4000	0	98.1	75 - 124				
trans-1,3-Dichloropropene	3958	200	4000	0	99.0	73 - 127				
Trichloroethene	13470	200	4000	9392	102	79 - 123				
Trichlorofluoromethane	4313	200	4000	0	108	65 - 141				
Vinyl chloride	3797	200	4000	0	94.9	58 - 137				
Surr: 1,2-Dichloroethane-d4	*8821*	*200*	*10000*	*0*	*88.2*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*9699*	*200*	*10000*	*0*	*97.0*	*85 - 114*				
Surr: Dibromofluoromethane	*9300*	*200*	*10000*	*0*	*93.0*	*80 - 119*				
Surr: Toluene-d8	*10380*	*200*	*10000*	*0*	*104*	*89 - 112*				

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

QC BATCH REPORT

Batch ID: R439909 (0) **Instrument: VOA6** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MS Sample ID: **HS23061707-01MS** Units: **ug/L** Analysis Date: **26-Jun-2023 16:04**
Client ID: Run ID: **VOA6_439909** SeqNo: **7385763** 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	22.06	1.0	20	0	110	78 - 124				
1,1,1-Trichloroethane	20.81	1.0	20	0	104	74 - 131				
1,1,2,2-Tetrachloroethane	19.66	1.0	20	0	98.3	71 - 121				
1,1,2-Trichloroethane	21.1	1.0	20	0	105	80 - 119				
1,1-Dichloroethane	19.56	1.0	20	0	97.8	77 - 125				
1,1-Dichloroethene	21.49	1.0	20	0	107	71 - 131				
1,1-Dichloropropene	23.15	1.0	20	0	116	78 - 125				
1,2,3-Trichlorobenzene	22.35	1.0	20	0	112	69 - 129				
1,2,3-Trichloropropane	20.04	1.0	20	0	100	73 - 122				
1,2,4-Trichlorobenzene	23.41	1.0	20	0	117	69 - 130				
1,2,4-Trimethylbenzene	23.1	1.0	20	0	116	76 - 124				
1,2-Dibromo-3-chloropropane	21.18	1.0	20	0	106	62 - 128				
1,2-Dibromoethane	20.53	1.0	20	0	103	77 - 121				
1,2-Dichlorobenzene	22.54	1.0	20	0	113	80 - 119				
1,2-Dichloroethane	20.75	1.0	20	0	104	73 - 128				
1,2-Dichloropropane	20.85	1.0	20	0	104	78 - 122				
1,3,5-Trimethylbenzene	23.55	1.0	20	0	118	75 - 124				
1,3-Dichlorobenzene	22.89	1.0	20	0	114	80 - 119				
1,3-Dichloropropane	21.26	1.0	20	0	106	80 - 119				
1,4-Dichlorobenzene	22.47	1.0	20	0	112	79 - 118				
2,2-Dichloropropane	22.39	1.0	20	0	112	60 - 139				
2-Butanone	28.61	2.0	40	0	71.5	56 - 143				
2-Chlorotoluene	22.76	1.0	20	0	114	79 - 122				
2-Hexanone	37.15	2.0	40	0	92.9	57 - 139				
4-Chlorotoluene	23.2	1.0	20	0	116	78 - 122				
4-Isopropyltoluene	25.08	1.0	20	0	125	77 - 127				
4-Methyl-2-pentanone	37.93	2.0	40	0	94.8	67 - 130				
Acetone	30.14	2.0	40	0	75.4	39 - 160				
Benzene	21.75	1.0	20	0	109	79 - 120				
Bromobenzene	22.44	1.0	20	0	112	80 - 120				
Bromochloromethane	18.89	1.0	20	0	94.5	78 - 123				
Bromodichloromethane	20.81	1.0	20	0	104	79 - 125				
Bromoform	21.14	1.0	20	0	106	66 - 130				
Bromomethane	20.82	1.0	20	0	104	53 - 141				

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

QC BATCH REPORT

Batch ID: R439909 (0) **Instrument: VOA6** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MS Sample ID: **HS23061707-01MS** Units: **ug/L** Analysis Date: **26-Jun-2023 16:04**
Client ID: Run ID: **VOA6_439909** SeqNo: **7385763** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	36.39	2.0	40	0	91.0	64 - 133				
Carbon tetrachloride	23.78	1.0	20	0	119	72 - 136				
Chlorobenzene	22.77	1.0	20	0	114	82 - 118				
Chloroethane	22.15	1.0	20	0	111	60 - 138				
Chloroform	18.94	1.0	20	0	94.7	79 - 124				
Chloromethane	19.49	1.0	20	0	97.5	50 - 139				
cis-1,2-Dichloroethene	19.78	1.0	20	0	98.9	78 - 123				
cis-1,3-Dichloropropene	20.98	1.0	20	0	105	75 - 124				
Dibromochloromethane	21.47	1.0	20	0	107	74 - 126				
Dibromomethane	21	1.0	20	0	105	79 - 123				
Dichlorodifluoromethane	18.2	1.0	20	0	91.0	32 - 152				
Ethylbenzene	23.59	1.0	20	0	118	79 - 121				
Hexachlorobutadiene	25.54	1.0	20	0	128	66 - 134				
Isopropylbenzene	24.29	1.0	20	0	121	72 - 131				
m,p-Xylene	48.89	2.0	40	0	122	80 - 121				S
Methylene chloride	18.34	2.0	20	0	91.7	74 - 124				
Naphthalene	20.82	1.0	20	0	104	61 - 128				
n-Butylbenzene	25.38	1.0	20	0	127	75 - 128				
n-Propylbenzene	24.27	1.0	20	0	121	76 - 126				
o-Xylene	23.13	1.0	20	0	116	78 - 122				
sec-Butylbenzene	24.77	1.0	20	0	124	77 - 126				
Styrene	23.2	1.0	20	0	116	78 - 123				
tert-Butylbenzene	24.48	1.0	20	0	122	78 - 124				
Tetrachloroethene	25.38	1.0	20	0	127	74 - 129				
Toluene	23.26	1.0	20	0	116	80 - 121				
trans-1,2-Dichloroethene	20.57	1.0	20	0	103	75 - 124				
trans-1,3-Dichloropropene	20.81	1.0	20	0	104	73 - 127				
Trichloroethene	22.59	1.0	20	0	113	79 - 123				
Trichlorofluoromethane	22.64	1.0	20	0	113	65 - 141				
Vinyl chloride	19.97	1.0	20	0	99.8	58 - 137				
Surr: 1,2-Dichloroethane-d4	*44.63*	*1.0*	*50*	*0*	*89.3*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*48.97*	*1.0*	*50*	*0*	*97.9*	*85 - 114*				
Surr: Dibromofluoromethane	*47.2*	*1.0*	*50*	*0*	*94.4*	*80 - 119*				
Surr: Toluene-d8	*51.39*	*1.0*	*50*	*0*	*103*	*89 - 112*				

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

QC BATCH REPORT

Batch ID: R439909 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS23061712-08MSD** Units: **ug/L** Analysis Date: **26-Jun-2023 23:05**
Client ID: **MW1_062323** Run ID: **VOA6_439909** SeqNo: **7386287** PrepDate: DF: **200**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	4185	200	4000	0	105	78 - 124	4396	4.92	20	
1,1,1-Trichloroethane	3883	200	4000	0	97.1	74 - 131	4047	4.12	20	
1,1,2,2-Tetrachloroethane	3746	200	4000	0	93.6	71 - 121	4134	9.86	20	
1,1,2-Trichloroethane	3975	200	4000	0	99.4	80 - 119	4225	6.08	20	
1,1-Dichloroethane	3632	200	4000	0	90.8	77 - 125	3751	3.23	20	
1,1-Dichloroethene	3989	200	4000	0	99.7	71 - 131	4102	2.8	20	
1,1-Dichloropropene	4213	200	4000	0	105	78 - 125	4429	5	20	
1,2,3-Trichlorobenzene	4408	200	4000	0	110	69 - 129	4721	6.85	20	
1,2,3-Trichloropropane	3775	200	4000	0	94.4	73 - 122	4271	12.3	20	
1,2,4-Trichlorobenzene	4393	200	4000	0	110	69 - 130	4805	8.97	20	
1,2,4-Trimethylbenzene	4339	200	4000	0	108	76 - 124	4795	10	20	
1,2-Dibromo-3-chloropropane	3915	200	4000	0	97.9	62 - 128	4354	10.6	20	
1,2-Dibromoethane	4043	200	4000	0	101	77 - 121	4218	4.24	20	
1,2-Dichlorobenzene	4279	200	4000	0	107	80 - 119	4657	8.44	20	
1,2-Dichloroethane	4584	200	4000	671.3	97.8	73 - 128	4661	1.66	20	
1,2-Dichloropropane	4009	200	4000	0	100	78 - 122	4069	1.49	20	
1,3,5-Trimethylbenzene	4420	200	4000	0	110	75 - 124	4810	8.46	20	
1,3-Dichlorobenzene	4276	200	4000	0	107	80 - 119	4691	9.24	20	
1,3-Dichloropropane	4038	200	4000	0	101	80 - 119	4234	4.72	20	
1,4-Dichlorobenzene	4181	200	4000	0	105	79 - 118	4573	8.96	20	
2,2-Dichloropropane	3756	200	4000	0	93.9	60 - 139	3887	3.41	20	
2-Butanone	5693	400	8000	0	71.2	56 - 143	6170	8.05	20	
2-Chlorotoluene	4207	200	4000	0	105	79 - 122	4672	10.5	20	
2-Hexanone	7151	400	8000	0	89.4	57 - 139	7769	8.29	20	
4-Chlorotoluene	4324	200	4000	0	108	78 - 122	4666	7.62	20	
4-Isopropyltoluene	4557	200	4000	0	114	77 - 127	5015	9.56	20	
4-Methyl-2-pentanone	7320	400	8000	0	91.5	67 - 130	7903	7.66	20	
Acetone	6066	400	8000	0	75.8	39 - 160	5906	2.67	20	
Benzene	4102	200	4000	0	103	79 - 120	4183	1.97	20	
Bromobenzene	4318	200	4000	0	108	80 - 120	4677	7.97	20	
Bromochloromethane	3685	200	4000	0	92.1	78 - 123	3847	4.32	20	
Bromodichloromethane	3915	200	4000	0	97.9	79 - 125	4030	2.9	20	
Bromoform	4064	200	4000	0	102	66 - 130	4269	4.93	20	
Bromomethane	3658	200	4000	0	91.5	53 - 141	4100	11.4	20	

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

QC BATCH REPORT

Batch ID: R439909 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS23061712-08MSD** Units: **ug/L** Analysis Date: **26-Jun-2023 23:05**
Client ID: **MW1_062323** Run ID: **VOA6_439909** SeqNo: **7386287** PrepDate: DF: **200**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	6739	400	8000	0	84.2	64 - 133	6965	3.31	20	
Carbon tetrachloride	4406	200	4000	0	110	72 - 136	4562	3.46	20	
Chlorobenzene	4285	200	4000	0	107	82 - 118	4567	6.37	20	
Chloroethane	3741	200	4000	0	93.5	60 - 138	3955	5.57	20	
Chloroform	3622	200	4000	0	90.5	79 - 124	3673	1.42	20	
Chloromethane	3688	200	4000	0	92.2	50 - 139	3752	1.73	20	
cis-1,2-Dichloroethene	12020	200	4000	9060	73.9	78 - 123	12650	5.12	20	S
cis-1,3-Dichloropropene	3914	200	4000	0	97.9	75 - 124	4003	2.24	20	
Dibromochloromethane	4098	200	4000	0	102	74 - 126	4312	5.08	20	
Dibromomethane	4076	200	4000	0	102	79 - 123	4083	0.179	20	
Dichlorodifluoromethane	3175	200	4000	0	79.4	32 - 152	3311	4.2	20	
Ethylbenzene	4393	200	4000	0	110	79 - 121	4682	6.37	20	
Hexachlorobutadiene	4732	200	4000	0	118	66 - 134	5284	11	20	
Isopropylbenzene	4550	200	4000	0	114	72 - 131	4835	6.07	20	
m,p-Xylene	8974	400	8000	0	112	80 - 121	9697	7.74	20	
Methylene chloride	3557	400	4000	0	88.9	74 - 124	3658	2.8	20	
Naphthalene	4103	200	4000	0	103	61 - 128	4481	8.8	20	
n-Butylbenzene	4555	200	4000	0	114	75 - 128	5075	10.8	20	
n-Propylbenzene	4459	200	4000	0	111	76 - 126	4977	11	20	
o-Xylene	4296	200	4000	0	107	78 - 122	4609	7.03	20	
sec-Butylbenzene	4560	200	4000	0	114	77 - 126	5058	10.4	20	
Styrene	4324	200	4000	0	108	78 - 123	4650	7.27	20	
tert-Butylbenzene	4537	200	4000	0	113	78 - 124	5049	10.7	20	
Tetrachloroethene	4617	200	4000	0	115	74 - 129	4931	6.57	20	
Toluene	4273	200	4000	0	107	80 - 121	4616	7.73	20	
trans-1,2-Dichloroethene	3854	200	4000	0	96.4	75 - 124	3922	1.74	20	
trans-1,3-Dichloropropene	3839	200	4000	0	96.0	73 - 127	3958	3.05	20	
Trichloroethene	12870	200	4000	9392	86.9	79 - 123	13470	4.54	20	
Trichlorofluoromethane	4101	200	4000	0	103	65 - 141	4313	5.04	20	
Vinyl chloride	3583	200	4000	0	89.6	58 - 137	3797	5.8	20	
Surr: 1,2-Dichloroethane-d4	*8922*	*200*	*10000*	*0*	*89.2*	*81 - 118*	*8821*	*1.14*	*20*	
Surr: 4-Bromofluorobenzene	*9701*	*200*	*10000*	*0*	*97.0*	*85 - 114*	*9699*	*0.0243*	*20*	
Surr: Dibromofluoromethane	*9370*	*200*	*10000*	*0*	*93.7*	*80 - 119*	*9300*	*0.744*	*20*	
Surr: Toluene-d8	*10140*	*200*	*10000*	*0*	*101*	*89 - 112*	*10380*	*2.3*	*20*	

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

QC BATCH REPORT

Batch ID: R439909 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS23061707-01MSD** Units: **ug/L** Analysis Date: **26-Jun-2023 16:25**
Client ID: Run ID: **VOA6_439909** SeqNo: **7385764** 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	21.25	1.0	20	0	106	78 - 124	22.06	3.76	20	
1,1,1-Trichloroethane	19.75	1.0	20	0	98.7	74 - 131	20.81	5.24	20	
1,1,2,2-Tetrachloroethane	20.44	1.0	20	0	102	71 - 121	19.66	3.92	20	
1,1,2-Trichloroethane	21	1.0	20	0	105	80 - 119	21.1	0.484	20	
1,1-Dichloroethane	18.53	1.0	20	0	92.7	77 - 125	19.56	5.41	20	
1,1-Dichloroethene	19.9	1.0	20	0	99.5	71 - 131	21.49	7.69	20	
1,1-Dichloropropene	21.77	1.0	20	0	109	78 - 125	23.15	6.12	20	
1,2,3-Trichlorobenzene	23.55	1.0	20	0	118	69 - 129	22.35	5.2	20	
1,2,3-Trichloropropane	20.43	1.0	20	0	102	73 - 122	20.04	1.95	20	
1,2,4-Trichlorobenzene	23.81	1.0	20	0	119	69 - 130	23.41	1.73	20	
1,2,4-Trimethylbenzene	23.2	1.0	20	0	116	76 - 124	23.1	0.416	20	
1,2-Dibromo-3-chloropropane	20.87	1.0	20	0	104	62 - 128	21.18	1.46	20	
1,2-Dibromoethane	20.76	1.0	20	0	104	77 - 121	20.53	1.12	20	
1,2-Dichlorobenzene	22.69	1.0	20	0	113	80 - 119	22.54	0.631	20	
1,2-Dichloroethane	20.85	1.0	20	0	104	73 - 128	20.75	0.459	20	
1,2-Dichloropropane	20.43	1.0	20	0	102	78 - 122	20.85	2.03	20	
1,3,5-Trimethylbenzene	23.66	1.0	20	0	118	75 - 124	23.55	0.452	20	
1,3-Dichlorobenzene	23.1	1.0	20	0	115	80 - 119	22.89	0.904	20	
1,3-Dichloropropane	21.2	1.0	20	0	106	80 - 119	21.26	0.245	20	
1,4-Dichlorobenzene	22.49	1.0	20	0	112	79 - 118	22.47	0.0855	20	
2,2-Dichloropropane	20.87	1.0	20	0	104	60 - 139	22.39	7.02	20	
2-Butanone	27.74	2.0	40	0	69.3	56 - 143	28.61	3.08	20	
2-Chlorotoluene	22.7	1.0	20	0	114	79 - 122	22.76	0.258	20	
2-Hexanone	38.83	2.0	40	0	97.1	57 - 139	37.15	4.41	20	
4-Chlorotoluene	23.44	1.0	20	0	117	78 - 122	23.2	1.02	20	
4-Isopropyltoluene	25.03	1.0	20	0	125	77 - 127	25.08	0.183	20	
4-Methyl-2-pentanone	39	2.0	40	0	97.5	67 - 130	37.93	2.78	20	
Acetone	28.64	2.0	40	0	71.6	39 - 160	30.14	5.12	20	
Benzene	20.52	1.0	20	0	103	79 - 120	21.75	5.84	20	
Bromobenzene	22.49	1.0	20	0	112	80 - 120	22.44	0.224	20	
Bromochloromethane	18.77	1.0	20	0	93.8	78 - 123	18.89	0.669	20	
Bromodichloromethane	19.85	1.0	20	0	99.2	79 - 125	20.81	4.74	20	
Bromoform	20.95	1.0	20	0	105	66 - 130	21.14	0.921	20	
Bromomethane	20.17	1.0	20	0	101	53 - 141	20.82	3.2	20	

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

QC BATCH REPORT

Batch ID: R439909 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS23061707-01MSD** Units: **ug/L** Analysis Date: **26-Jun-2023 16:25**
Client ID: Run ID: **VOA6_439909** SeqNo: **7385764** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	33.81	2.0	40	0	84.5	64 - 133	36.39	7.37	20	
Carbon tetrachloride	22.16	1.0	20	0	111	72 - 136	23.78	7.02	20	
Chlorobenzene	22.17	1.0	20	0	111	82 - 118	22.77	2.67	20	
Chloroethane	19.48	1.0	20	0	97.4	60 - 138	22.15	12.8	20	
Chloroform	18.41	1.0	20	0	92.0	79 - 124	18.94	2.86	20	
Chloromethane	18.6	1.0	20	0	93.0	50 - 139	19.49	4.71	20	
cis-1,2-Dichloroethene	19.23	1.0	20	0	96.2	78 - 123	19.78	2.83	20	
cis-1,3-Dichloropropene	20.37	1.0	20	0	102	75 - 124	20.98	2.96	20	
Dibromochloromethane	21.18	1.0	20	0	106	74 - 126	21.47	1.33	20	
Dibromomethane	20.51	1.0	20	0	103	79 - 123	21	2.37	20	
Dichlorodifluoromethane	16.42	1.0	20	0	82.1	32 - 152	18.2	10.3	20	
Ethylbenzene	22.84	1.0	20	0	114	79 - 121	23.59	3.22	20	
Hexachlorobutadiene	25.95	1.0	20	0	130	66 - 134	25.54	1.6	20	
Isopropylbenzene	23.51	1.0	20	0	118	72 - 131	24.29	3.27	20	
m,p-Xylene	46.9	2.0	40	0	117	80 - 121	48.89	4.16	20	
Methylene chloride	17.84	2.0	20	0	89.2	74 - 124	18.34	2.73	20	
Naphthalene	22.06	1.0	20	0	110	61 - 128	20.82	5.81	20	
n-Butylbenzene	25.8	1.0	20	0	129	75 - 128	25.38	1.61	20	S
n-Propylbenzene	24.13	1.0	20	0	121	76 - 126	24.27	0.572	20	
o-Xylene	22.34	1.0	20	0	112	78 - 122	23.13	3.49	20	
sec-Butylbenzene	24.8	1.0	20	0	124	77 - 126	24.77	0.0965	20	
Styrene	22.61	1.0	20	0	113	78 - 123	23.2	2.6	20	
tert-Butylbenzene	24.37	1.0	20	0	122	78 - 124	24.48	0.469	20	
Tetrachloroethene	24.14	1.0	20	0	121	74 - 129	25.38	5.01	20	
Toluene	22.53	1.0	20	0	113	80 - 121	23.26	3.16	20	
trans-1,2-Dichloroethene	19.02	1.0	20	0	95.1	75 - 124	20.57	7.81	20	
trans-1,3-Dichloropropene	20	1.0	20	0	100	73 - 127	20.81	3.95	20	
Trichloroethene	21.56	1.0	20	0	108	79 - 123	22.59	4.69	20	
Trichlorofluoromethane	20.97	1.0	20	0	105	65 - 141	22.64	7.65	20	
Vinyl chloride	18.6	1.0	20	0	93.0	58 - 137	19.97	7.06	20	
Surr: 1,2-Dichloroethane-d4	*45.18*	*1.0*	*50*	*0*	*90.4*	*81 - 118*	*44.63*	*1.21*	*20*	
Surr: 4-Bromofluorobenzene	*49.11*	*1.0*	*50*	*0*	*98.2*	*85 - 114*	*48.97*	*0.299*	*20*	
Surr: Dibromofluoromethane	*46.8*	*1.0*	*50*	*0*	*93.6*	*80 - 119*	*47.2*	*0.853*	*20*	
Surr: Toluene-d8	*51.65*	*1.0*	*50*	*0*	*103*	*89 - 112*	*51.39*	*0.512*	*20*	

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

QC BATCH REPORT

Batch ID: R439909 (0)	Instrument: VOA6	Method: VOLATILES ORGANICS BY METHOD 8260C

The following samples were analyzed in this batch:

HS23061712-01	HS23061712-03	HS23061712-04	HS23061712-06
HS23061712-07	HS23061712-08	HS23061712-09	

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

QC BATCH REPORT

Batch ID: R440138 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-230628** Units: **ug/L** Analysis Date: **28-Jun-2023 13:41**
Client ID: Run ID: **VOA6_440138** SeqNo: **7391433** 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	0.50	2.0								U
2-Chlorotoluene	0.50	1.0								U
2-Hexanone	0.50	2.0								U
4-Chlorotoluene	0.50	1.0								U
4-Isopropyltoluene	0.50	1.0								U
4-Methyl-2-pentanone	0.50	2.0								U
Acetone	0.50	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

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

QC BATCH REPORT

Batch ID: R440138 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-230628** Units: **ug/L** Analysis Date: **28-Jun-2023 13:41**
Client ID: Run ID: **VOA6_440138** SeqNo: **7391433** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	0.50	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	*40.53*	*1.0*	*50*	*0*	*81.1*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*46.45*	*1.0*	*50*	*0*	*92.9*	*85 - 114*				
Surr: Dibromofluoromethane	*43.97*	*1.0*	*50*	*0*	*87.9*	*80 - 119*				
Surr: Toluene-d8	*51.1*	*1.0*	*50*	*0*	*102*	*89 - 112*				

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

QC BATCH REPORT

Batch ID: R440138 (0) **Instrument: VOA6** **Method: VOLATILES ORGANICS BY METHOD 8260C**

LCS Sample ID: **VLCSW-230628** Units: **ug/L** Analysis Date: **28-Jun-2023 12:59**
Client ID: Run ID: **VOA6_440138** SeqNo: **7391432** 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	20.04	1.0	20	0	100	78 - 124				
1,1,1-Trichloroethane	17.94	1.0	20	0	89.7	74 - 131				
1,1,2,2-Tetrachloroethane	18.8	1.0	20	0	94.0	71 - 121				
1,1,2-Trichloroethane	19.79	1.0	20	0	98.9	80 - 119				
1,1-Dichloroethane	18.09	1.0	20	0	90.4	77 - 125				
1,1-Dichloroethene	18.97	1.0	20	0	94.8	71 - 131				
1,1-Dichloropropene	19.05	1.0	20	0	95.2	78 - 125				
1,2,3-Trichlorobenzene	21.81	1.0	20	0	109	69 - 129				
1,2,3-Trichloropropane	18.88	1.0	20	0	94.4	73 - 122				
1,2,4-Trichlorobenzene	21.42	1.0	20	0	107	69 - 130				
1,2,4-Trimethylbenzene	20.2	1.0	20	0	101	76 - 124				
1,2-Dibromo-3-chloropropane	20.61	1.0	20	0	103	62 - 128				
1,2-Dibromoethane	20.05	1.0	20	0	100	77 - 121				
1,2-Dichlorobenzene	21.01	1.0	20	0	105	80 - 119				
1,2-Dichloroethane	19.04	1.0	20	0	95.2	73 - 128				
1,2-Dichloropropane	19.5	1.0	20	0	97.5	78 - 122				
1,3,5-Trimethylbenzene	20.28	1.0	20	0	101	75 - 124				
1,3-Dichlorobenzene	21.06	1.0	20	0	105	80 - 119				
1,3-Dichloropropane	19.79	1.0	20	0	99.0	80 - 119				
1,4-Dichlorobenzene	20.88	1.0	20	0	104	79 - 118				
2,2-Dichloropropane	19.34	1.0	20	0	96.7	60 - 139				
2-Butanone	31.83	2.0	40	0	79.6	56 - 143				
2-Chlorotoluene	19.75	1.0	20	0	98.8	79 - 122				
2-Hexanone	35.47	2.0	40	0	88.7	57 - 139				
4-Chlorotoluene	20.31	1.0	20	0	102	78 - 122				
4-Isopropyltoluene	20.52	1.0	20	0	103	77 - 127				
4-Methyl-2-pentanone	35.65	2.0	40	0	89.1	67 - 130				
Acetone	32.15	2.0	40	0	80.4	39 - 160				
Benzene	19.73	1.0	20	0	98.6	79 - 120				
Bromobenzene	21.08	1.0	20	0	105	80 - 120				
Bromochloromethane	19.36	1.0	20	0	96.8	78 - 123				
Bromodichloromethane	18.9	1.0	20	0	94.5	79 - 125				
Bromoform	20.41	1.0	20	0	102	66 - 130				
Bromomethane	20.95	1.0	20	0	105	53 - 141				

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

QC BATCH REPORT

Batch ID: R440138 (0) **Instrument: VOA6** **Method: VOLATILES ORGANICS BY METHOD 8260C**

LCS Sample ID: **VLCSW-230628** Units: **ug/L** Analysis Date: **28-Jun-2023 12:59**
Client ID: Run ID: **VOA6_440138** SeqNo: **7391432** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	35.45	2.0	40	0	88.6	64 - 133				
Carbon tetrachloride	18.78	1.0	20	0	93.9	72 - 136				
Chlorobenzene	21.04	1.0	20	0	105	82 - 118				
Chloroethane	19.61	1.0	20	0	98.0	60 - 138				
Chloroform	17.81	1.0	20	0	89.0	79 - 124				
Chloromethane	20.49	1.0	20	0	102	50 - 139				
cis-1,2-Dichloroethene	19.08	1.0	20	0	95.4	78 - 123				
cis-1,3-Dichloropropene	19.54	1.0	20	0	97.7	75 - 124				
Dibromochloromethane	20.19	1.0	20	0	101	74 - 126				
Dibromomethane	20.2	1.0	20	0	101	79 - 123				
Dichlorodifluoromethane	19.37	1.0	20	0	96.9	32 - 152				
Ethylbenzene	20.73	1.0	20	0	104	79 - 121				
Hexachlorobutadiene	21.71	1.0	20	0	109	66 - 134				
Isopropylbenzene	20.63	1.0	20	0	103	72 - 131				
m,p-Xylene	43.21	2.0	40	0	108	80 - 121				
Methylene chloride	18.84	2.0	20	0	94.2	74 - 124				
Naphthalene	20.67	1.0	20	0	103	61 - 128				
n-Butylbenzene	20.7	1.0	20	0	104	75 - 128				
n-Propylbenzene	20.17	1.0	20	0	101	76 - 126				
o-Xylene	20.9	1.0	20	0	105	78 - 122				
sec-Butylbenzene	20.12	1.0	20	0	101	77 - 126				
Styrene	21.55	1.0	20	0	108	78 - 123				
tert-Butylbenzene	20.47	1.0	20	0	102	78 - 124				
Tetrachloroethene	20.98	1.0	20	0	105	74 - 129				
Toluene	20.66	1.0	20	0	103	80 - 121				
trans-1,2-Dichloroethene	19	1.0	20	0	95.0	75 - 124				
trans-1,3-Dichloropropene	19.35	1.0	20	0	96.8	73 - 127				
Trichloroethene	20.82	1.0	20	0	104	79 - 123				
Trichlorofluoromethane	18.85	1.0	20	0	94.3	65 - 141				
Vinyl chloride	18.92	1.0	20	0	94.6	58 - 137				
Surr: 1,2-Dichloroethane-d4	*43*	*1.0*	*50*	*0*	*86.0*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*48.53*	*1.0*	*50*	*0*	*97.1*	*85 - 114*				
Surr: Dibromofluoromethane	*47.12*	*1.0*	*50*	*0*	*94.2*	*80 - 119*				
Surr: Toluene-d8	*47.35*	*1.0*	*50*	*0*	*94.7*	*89 - 112*				

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

QC BATCH REPORT

Batch ID: R440138 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23061821-02MS** Units: **ug/L** Analysis Date: **28-Jun-2023 15:06**
Client ID: Run ID: **VOA6_440138** SeqNo: **7391437** 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	19.59	1.0	20	0	97.9	78 - 124				
1,1,1-Trichloroethane	17.36	1.0	20	0	86.8	74 - 131				
1,1,2,2-Tetrachloroethane	18.31	1.0	20	0	91.6	71 - 121				
1,1,2-Trichloroethane	18.53	1.0	20	0	92.6	80 - 119				
1,1-Dichloroethane	17.08	1.0	20	0.9801	80.5	77 - 125				
1,1-Dichloroethene	18.33	1.0	20	0	91.6	71 - 131				
1,1-Dichloropropene	19.39	1.0	20	0	97.0	78 - 125				
1,2,3-Trichlorobenzene	20.81	1.0	20	0	104	69 - 129				
1,2,3-Trichloropropane	18.88	1.0	20	0	94.4	73 - 122				
1,2,4-Trichlorobenzene	20.66	1.0	20	0	103	69 - 130				
1,2,4-Trimethylbenzene	21.36	1.0	20	0	107	76 - 124				
1,2-Dibromo-3-chloropropane	19.06	1.0	20	0	95.3	62 - 128				
1,2-Dibromoethane	18.55	1.0	20	0	92.8	77 - 121				
1,2-Dichlorobenzene	20.92	1.0	20	0	105	80 - 119				
1,2-Dichloroethane	19.02	1.0	20	1.487	87.7	73 - 128				
1,2-Dichloropropane	17.77	1.0	20	0	88.9	78 - 122				
1,3,5-Trimethylbenzene	21.83	1.0	20	0	109	75 - 124				
1,3-Dichlorobenzene	21.34	1.0	20	0	107	80 - 119				
1,3-Dichloropropane	18.75	1.0	20	0	93.7	80 - 119				
1,4-Dichlorobenzene	20.86	1.0	20	0	104	79 - 118				
2,2-Dichloropropane	18.1	1.0	20	0	90.5	60 - 139				
2-Butanone	28.82	2.0	40	0	72.1	56 - 143				
2-Chlorotoluene	20.89	1.0	20	0	104	79 - 122				
2-Hexanone	33.56	2.0	40	0	83.9	57 - 139				
4-Chlorotoluene	21.37	1.0	20	0	107	78 - 122				
4-Isopropyltoluene	22.67	1.0	20	0	113	77 - 127				
4-Methyl-2-pentanone	34.18	2.0	40	0	85.4	67 - 130				
Acetone	25.54	2.0	40	0	63.9	39 - 160				
Benzene	18.77	1.0	20	0	93.8	79 - 120				
Bromobenzene	21.2	1.0	20	0	106	80 - 120				
Bromochloromethane	16.98	1.0	20	0	84.9	78 - 123				
Bromodichloromethane	17.26	1.0	20	0	86.3	79 - 125				
Bromoform	18.74	1.0	20	0	93.7	66 - 130				
Bromomethane	14.02	1.0	20	0	70.1	53 - 141				

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

QC BATCH REPORT

Batch ID: R440138 (0) **Instrument: VOA6** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MS Sample ID: **HS23061821-02MS** Units: **ug/L** Analysis Date: **28-Jun-2023 15:06**
Client ID: Run ID: **VOA6_440138** SeqNo: **7391437** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	31.55	2.0	40	0	78.9	64 - 133				
Carbon tetrachloride	20	1.0	20	0	100.0	72 - 136				
Chlorobenzene	20.29	1.0	20	0	101	82 - 118				
Chloroethane	18.62	1.0	20	0	93.1	60 - 138				
Chloroform	16.01	1.0	20	0	80.1	79 - 124				
Chloromethane	20.94	1.0	20	0	105	50 - 139				
cis-1,2-Dichloroethene	23.06	1.0	20	4.836	91.1	78 - 123				
cis-1,3-Dichloropropene	17.91	1.0	20	0	89.5	75 - 124				
Dibromochloromethane	19.11	1.0	20	0	95.5	74 - 126				
Dibromomethane	17.62	1.0	20	0	88.1	79 - 123				
Dichlorodifluoromethane	16.44	1.0	20	0	82.2	32 - 152				
Ethylbenzene	20.8	1.0	20	0	104	79 - 121				
Hexachlorobutadiene	23.3	1.0	20	0	117	66 - 134				
Isopropylbenzene	21.44	1.0	20	0	107	72 - 131				
m,p-Xylene	43.17	2.0	40	0	108	80 - 121				
Methylene chloride	19.05	2.0	20	0	95.3	74 - 124				
Naphthalene	19.55	1.0	20	0	97.8	61 - 128				
n-Butylbenzene	22.7	1.0	20	0	113	75 - 128				
n-Propylbenzene	22.09	1.0	20	0	110	76 - 126				
o-Xylene	20.41	1.0	20	0	102	78 - 122				
sec-Butylbenzene	22.62	1.0	20	0	113	77 - 126				
Styrene	20.52	1.0	20	0	103	78 - 123				
tert-Butylbenzene	22.83	1.0	20	0	114	78 - 124				
Tetrachloroethene	22.99	1.0	20	0	115	74 - 129				
Toluene	20.63	1.0	20	0	103	80 - 121				
trans-1,2-Dichloroethene	17.47	1.0	20	0	87.3	75 - 124				
trans-1,3-Dichloropropene	17.7	1.0	20	0	88.5	73 - 127				
Trichloroethene	24.12	1.0	20	3.924	101	79 - 123				
Trichlorofluoromethane	18.58	1.0	20	0	92.9	65 - 141				
Vinyl chloride	17.63	1.0	20	0	88.1	58 - 137				
Surr: 1,2-Dichloroethane-d4	*41.14*	*1.0*	*50*	*0*	*82.3*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*47.11*	*1.0*	*50*	*0*	*94.2*	*85 - 114*				
Surr: Dibromofluoromethane	*45.16*	*1.0*	*50*	*0*	*90.3*	*80 - 119*				
Surr: Toluene-d8	*51.16*	*1.0*	*50*	*0*	*102*	*89 - 112*				

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

QC BATCH REPORT

Batch ID: R440138 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS23061821-02MSD** Units: **ug/L** Analysis Date: **28-Jun-2023 15:27**
Client ID: Run ID: **VOA6_440138** SeqNo: **7391438** 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	18.99	1.0	20	0	94.9	78 - 124	19.59	3.11	20	
1,1,1-Trichloroethane	16.58	1.0	20	0	82.9	74 - 131	17.36	4.57	20	
1,1,2,2-Tetrachloroethane	16.86	1.0	20	0	84.3	71 - 121	18.31	8.26	20	
1,1,2-Trichloroethane	18.2	1.0	20	0	91.0	80 - 119	18.53	1.81	20	
1,1-Dichloroethane	16.14	1.0	20	0.9801	75.8	77 - 125	17.08	5.62	20	S
1,1-Dichloroethene	16.87	1.0	20	0	84.4	71 - 131	18.33	8.26	20	
1,1-Dichloropropene	18.26	1.0	20	0	91.3	78 - 125	19.39	6.02	20	
1,2,3-Trichlorobenzene	19.7	1.0	20	0	98.5	69 - 129	20.81	5.48	20	
1,2,3-Trichloropropane	16.99	1.0	20	0	85.0	73 - 122	18.88	10.5	20	
1,2,4-Trichlorobenzene	19.99	1.0	20	0	100.0	69 - 130	20.66	3.3	20	
1,2,4-Trimethylbenzene	19.88	1.0	20	0	99.4	76 - 124	21.36	7.17	20	
1,2-Dibromo-3-chloropropane	18.25	1.0	20	0	91.2	62 - 128	19.06	4.38	20	
1,2-Dibromoethane	17.96	1.0	20	0	89.8	77 - 121	18.55	3.27	20	
1,2-Dichlorobenzene	19.52	1.0	20	0	97.6	80 - 119	20.92	6.93	20	
1,2-Dichloroethane	18.33	1.0	20	1.487	84.2	73 - 128	19.02	3.7	20	
1,2-Dichloropropane	17.45	1.0	20	0	87.2	78 - 122	17.77	1.85	20	
1,3,5-Trimethylbenzene	20.14	1.0	20	0	101	75 - 124	21.83	8.07	20	
1,3-Dichlorobenzene	20.16	1.0	20	0	101	80 - 119	21.34	5.71	20	
1,3-Dichloropropane	18	1.0	20	0	90.0	80 - 119	18.75	4.05	20	
1,4-Dichlorobenzene	19.84	1.0	20	0	99.2	79 - 118	20.86	5.04	20	
2,2-Dichloropropane	16.88	1.0	20	0	84.4	60 - 139	18.1	6.93	20	
2-Butanone	25.05	2.0	40	0	62.6	56 - 143	28.82	14	20	
2-Chlorotoluene	19.27	1.0	20	0	96.3	79 - 122	20.89	8.1	20	
2-Hexanone	32.82	2.0	40	0	82.1	57 - 139	33.56	2.23	20	
4-Chlorotoluene	19.57	1.0	20	0	97.8	78 - 122	21.37	8.79	20	
4-Isopropyltoluene	21.08	1.0	20	0	105	77 - 127	22.67	7.28	20	
4-Methyl-2-pentanone	33.63	2.0	40	0	84.1	67 - 130	34.18	1.6	20	
Acetone	25.52	2.0	40	0	63.8	39 - 160	25.54	0.104	20	
Benzene	18.02	1.0	20	0	90.1	79 - 120	18.77	4.06	20	
Bromobenzene	19.93	1.0	20	0	99.7	80 - 120	21.2	6.16	20	
Bromochloromethane	16.66	1.0	20	0	83.3	78 - 123	16.98	1.92	20	
Bromodichloromethane	16.74	1.0	20	0	83.7	79 - 125	17.26	3.04	20	
Bromoform	18.4	1.0	20	0	92.0	66 - 130	18.74	1.84	20	
Bromomethane	15.43	1.0	20	0	77.1	53 - 141	14.02	9.58	20	

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

QC BATCH REPORT

Batch ID: R440138 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS23061821-02MSD** Units: **ug/L** Analysis Date: **28-Jun-2023 15:27**
Client ID: Run ID: **VOA6_440138** SeqNo: **7391438** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	29.16	2.0	40	0	72.9	64 - 133	31.55	7.87	20	
Carbon tetrachloride	19.17	1.0	20	0	95.9	72 - 136	20	4.22	20	
Chlorobenzene	19.63	1.0	20	0	98.1	82 - 118	20.29	3.31	20	
Chloroethane	19.98	1.0	20	0	99.9	60 - 138	18.62	7	20	
Chloroform	15.33	1.0	20	0	76.6	79 - 124	16.01	4.35	20	S
Chloromethane	17.91	1.0	20	0	89.6	50 - 139	20.94	15.6	20	
cis-1,2-Dichloroethene	21.45	1.0	20	4.836	83.1	78 - 123	23.06	7.25	20	
cis-1,3-Dichloropropene	17.43	1.0	20	0	87.1	75 - 124	17.91	2.71	20	
Dibromochloromethane	18.73	1.0	20	0	93.6	74 - 126	19.11	2.01	20	
Dibromomethane	17.71	1.0	20	0	88.5	79 - 123	17.62	0.491	20	
Dichlorodifluoromethane	15.38	1.0	20	0	76.9	32 - 152	16.44	6.66	20	
Ethylbenzene	19.79	1.0	20	0	99.0	79 - 121	20.8	4.97	20	
Hexachlorobutadiene	21.46	1.0	20	0	107	66 - 134	23.3	8.23	20	
Isopropylbenzene	20.52	1.0	20	0	103	72 - 131	21.44	4.42	20	
m,p-Xylene	40.87	2.0	40	0	102	80 - 121	43.17	5.48	20	
Methylene chloride	16.79	2.0	20	0	84.0	74 - 124	19.05	12.6	20	
Naphthalene	18.59	1.0	20	0	93.0	61 - 128	19.55	5.04	20	
n-Butylbenzene	21.21	1.0	20	0	106	75 - 128	22.7	6.78	20	
n-Propylbenzene	20.45	1.0	20	0	102	76 - 126	22.09	7.74	20	
o-Xylene	19.87	1.0	20	0	99.4	78 - 122	20.41	2.67	20	
sec-Butylbenzene	21.05	1.0	20	0	105	77 - 126	22.62	7.19	20	
Styrene	20.09	1.0	20	0	100	78 - 123	20.52	2.09	20	
tert-Butylbenzene	21.02	1.0	20	0	105	78 - 124	22.83	8.28	20	
Tetrachloroethene	21.55	1.0	20	0	108	74 - 129	22.99	6.46	20	
Toluene	19.72	1.0	20	0	98.6	80 - 121	20.63	4.52	20	
trans-1,2-Dichloroethene	16.71	1.0	20	0	83.6	75 - 124	17.47	4.4	20	
trans-1,3-Dichloropropene	17.26	1.0	20	0	86.3	73 - 127	17.7	2.53	20	
Trichloroethene	23.21	1.0	20	3.924	96.4	79 - 123	24.12	3.85	20	
Trichlorofluoromethane	16.82	1.0	20	0	84.1	65 - 141	18.58	9.98	20	
Vinyl chloride	16.29	1.0	20	0	81.4	58 - 137	17.63	7.88	20	
Surr: 1,2-Dichloroethane-d4	*40.74*	*1.0*	*50*	*0*	*81.5*	*81 - 118*	*41.14*	*0.981*	*20*	
Surr: 4-Bromofluorobenzene	*47.37*	*1.0*	*50*	*0*	*94.7*	*85 - 114*	*47.11*	*0.547*	*20*	
Surr: Dibromofluoromethane	*44.88*	*1.0*	*50*	*0*	*89.8*	*80 - 119*	*45.16*	*0.607*	*20*	
Surr: Toluene-d8	*50.86*	*1.0*	*50*	*0*	*102*	*89 - 112*	*51.16*	*0.597*	*20*	

ALS Houston, US Date: 11-Jul-23

Client:	Bhate Environmental Associates, Inc.
Project:	LHAAP Site18/24
WorkOrder:	HS23061712

QC BATCH REPORT

Batch ID:	**R440138 (0)**	**Instrument:**	**VOA6**	**Method:**	**VOLATILES ORGANICS BY METHOD 8260C**

The following samples were analyzed in this batch:	HS23061712-01	HS23061712-02	HS23061712-05

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

QC BATCH REPORT

Batch ID: R440247 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MBLK Sample ID: **VBLKW-230629** Units: **ug/L** Analysis Date: **29-Jun-2023 12:39**
Client ID: Run ID: **VOA9_440247** SeqNo: **7394054** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	0.50	1.0								U
Methylene chloride	0.50	2.0								U
Surr: 1,2-Dichloroethane-d4	*51.09*	*1.0*	*50*	*0*	*102*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*47.17*	*1.0*	*50*	*0*	*94.3*	*85 - 114*				
Surr: Dibromofluoromethane	*48.53*	*1.0*	*50*	*0*	*97.1*	*80 - 119*				
Surr: Toluene-d8	*53.86*	*1.0*	*50*	*0*	*108*	*89 - 112*				

LCS Sample ID: **VLCSW-230629** Units: **ug/L** Analysis Date: **29-Jun-2023 11:54**
Client ID: Run ID: **VOA9_440247** SeqNo: **7394053** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	21.04	1.0	20	0	105	78 - 123				
Methylene chloride	22.25	2.0	20	0	111	74 - 124				
Surr: 1,2-Dichloroethane-d4	*51.69*	*1.0*	*50*	*0*	*103*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*51.6*	*1.0*	*50*	*0*	*103*	*85 - 114*				
Surr: Dibromofluoromethane	*50.54*	*1.0*	*50*	*0*	*101*	*80 - 119*				
Surr: Toluene-d8	*48.55*	*1.0*	*50*	*0*	*97.1*	*89 - 112*				

MS Sample ID: **HS23061825-03MS** Units: **ug/L** Analysis Date: **29-Jun-2023 15:10**
Client ID: Run ID: **VOA9_440247** SeqNo: **7394059** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	994	50	1000	0	99.4	78 - 123				
Methylene chloride	994.4	100	1000	0	99.4	74 - 124				
Surr: 1,2-Dichloroethane-d4	*2589*	*50*	*2500*	*0*	*104*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*2564*	*50*	*2500*	*0*	*103*	*85 - 114*				
Surr: Dibromofluoromethane	*2493*	*50*	*2500*	*0*	*99.7*	*80 - 119*				
Surr: Toluene-d8	*2704*	*50*	*2500*	*0*	*108*	*89 - 112*				

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

QC BATCH REPORT

Batch ID: R440247 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS23061825-03MSD** Units: **ug/L** Analysis Date: **29-Jun-2023 15:33**
Client ID: Run ID: **VOA9_440247** SeqNo: **7394060** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	966.5	50	1000	0	96.6	78 - 123	994	2.81	20	
Methylene chloride	1005	100	1000	0	101	74 - 124	994.4	1.09	20	
Surr: 1,2-Dichloroethane-d4	*2532*	*50*	*2500*	*0*	*101*	*81 - 118*	*2589*	*2.23*	*20*	
Surr: 4-Bromofluorobenzene	*2523*	*50*	*2500*	*0*	*101*	*85 - 114*	*2564*	*1.59*	*20*	
Surr: Dibromofluoromethane	*2493*	*50*	*2500*	*0*	*99.7*	*80 - 119*	*2493*	*0.0188*	*20*	
Surr: Toluene-d8	*2723*	*50*	*2500*	*0*	*109*	*89 - 112*	*2704*	*0.711*	*20*	

The following samples were analyzed in this batch: HS23061712-05

ALS Houston, US Date: 11-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: **HS23061712**

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

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L23-358	31-May-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352; 2022-2023	31-Jul-2023
Louisiana	03087-2023	30-Jun-2024
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-23-31	30-Apr-2024
Utah	TX026932022-13	31-Jul-2023

ALS Houston, US Date: 11-Jul-23

Sample Receipt Checklist

Work Order ID: HS23061712 **Date/Time Received:** 24-Jun-2023 09:05

Client Name: Bhate Environmental **Received by:** Corey Grandits

Completed By: /S/ Malcolm Burleson (eSignature) 26-Jun-2023 11:45 (Date/Time) **Reviewed by:** (eSignature) (Date/Time)

Matrices: GW 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):	1.0UC 0.9C	IR31
Cooler(s)/Kit(s):	51329	
Date/Time sample(s) sent to storage:	06262023	

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:

ALS Houston, US Date: 11-Jul-23

Sample Receipt Checklist

Work Order ID: HS23061712 **Date/Time Received:** 24-Jun-2023 09:05

Client Name: Bhate Environmental **Received by:** Corey Grandits

Completed By: /S/ Malcolm Burleson (eSignature) 26-Jun-2023 12:19 (Date/Time) **Reviewed by:** (eSignature) (Date/Time)

Matrices: GW 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):	1.7UC1.6C	IR31
Cooler(s)/Kit(s):	bLUE	
Date/Time sample(s) sent to storage:	06262023	

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

Project/Site Name: LHAAP / Site 18/24

Client Name:

Collected by: Scott Beesinger

Sample Analysis Requested [6] | Quality Assurance Samples [8]

Field Sample ID (30 Character 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
1B24DPTMW05_062223	6/22/23	1030	-	N		WG	5	✓	✓		✓				
1BCPTMW10SW_062223	6/22/23	1335	-	N		WG	5	✓	✓		✓				
1BCPTMW10BW_062223	6/22/23	1540	-	N		WG	5	✓	✓	✓					
1BCPTMW10BWa_062223	6/22/23	1540	-	FD		WG	5	✓	✓	✓					
1BCPTMW01SW_062323	6/23/23	1140	-	N		WG	6	✓	✓	✓	✓				
1BCPTMW01DW_062323	6/23/23	1020	-	N		WG	6	✓	✓	✓	✓				
MW2_062323	6/23/23	0910	-	N		WG	5	✓	✓		✓				
MW1_062323	6/23/23	1250	-	N		WG	5	✓	✓	✓					
MW1MS_062323	6/23/23	1250	-	MS		WG	5	✓	✓	✓					
MW1MSD_062323	6/23/23	1250	-	SD		WG	5	✓	✓	✓					

HS23061712
Bhate Environmental Associates, Inc.
LHAAP Site 18/24

COMMENTS: Standard TAT

Custody Transfer Prior to Receipt by Laboratory

Relinquished by (Signed)	Date	Time	Received by (signed)	Date	Time
1.	6/23/23	1330	1. CG	6-24-23	0905
2.			2.		
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:

Method of Shipment:

Fed Ex Airbill Number:

Analytical Lab: AES 10450 Stancliff Rd. Suite 210 Houston, TX 77099 (281) 530-5656

ATTN: Dana Wagoner 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 = 02, 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 101099 01 in the Equipment Blank Lot Control

ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Bmle

CUSTODY SEAL	Seal Broken By:
Date: 6/23/23 Time: 1330	GM
Name: Caitlin Ryan	Date: 06/24/23
Company: BHATE	

Bmle JUN 2 4 2023

June 30, 2023 Service Request No:E2300610

James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099

Laboratory Results for: HS23061712

Dear James,

Enclosed are the results of the sample(s) submitted to our laboratory June 26, 2023
For your reference, these analyses have been assigned our service request number **E2300610.**

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 2188. You may also contact me via email at James.Guin@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

James Guin

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

ALS Environmental

Client:	ALS Environmental - US	**Service Request No.:**	E2300610
Project:	HS23061712	**Date Received:**	06/26/23
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 II. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Eight samples were received for analysis at ALS Environmental in Houston on 06/26/23.

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

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2300312: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in addition to MS/MSD for this extraction batch.

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:**E2300610
Project: HS23061712

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2300610-001	1824DPTMW05_062223	6/22/2023	1030
E2300610-002	18CPTMW10SW_062223	6/22/2023	1335
E2300610-003	18CPTMW10DW_062223	6/22/2023	1540
E2300610-004	18CPTMW10DW_062223_a	6/22/2023	1540
E2300610-005	18CPTMW01SW_062223	6/22/2023	1140
E2300610-006	18CPTMW01DW_062223	6/22/2023	1020
E2300610-007	MW2_062223	6/22/2023	0910
E2300610-008	MW1_062223	6/22/2023	1250

Service Request Summary

Folder #: **E2300610**
Client Name: ALS Environmental - US
Project Name: HS23061712
Project Number:

Report To: James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number:
E-mail: james.guin@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 06/26/23
Internal Due Date: 7/11/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23061712
EDD: BASIC_WQC_CASNo_LOD

10 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2300610-001	1824DPTMW05_062223	Water	06/22/23 1030	**IV**
E2300610-002	18CPTMW10SW_062223	Water	06/22/23 1335	**IV**
E2300610-003	18CPTMW10DW_062223	Water	06/22/23 1540	**IV**
E2300610-004	18CPTMW10DW_062223_a	Water	06/22/23 1540	**IV**
E2300610-005	18CPTMW01SW_062223	Water	06/22/23 1140	**IV**
E2300610-006	18CPTMW01DW_062223	Water	06/22/23 1020	**IV**
E2300610-007	MW2_062223	Water	06/22/23 0910	**IV**
E2300610-008	MW1_062223	Water	06/22/23 1250	**IV**

Service Request Summary

Folder #: **E2300610**
Client Name: ALS Environmental - US
Project Name: HS23061712
Project Number:

Report To: James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number:
E-mail: james.guin@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 06/26/23
Internal Due Date: 7/11/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23061712
EDD: BASIC_WQC_CASNo_LOD

10 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
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
Arizona Department of Health Services	AZ0793_2024	5/27/2024
Arkansas Department of Environmental Quality	88-00356	3/27/2024
California State Environmental Laboratory Accreditation Program	2919	4/30/2024
Department of Defense	L23-358	5/31/2025
Department of Defense	L22-90	3/31/2024
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2022-2023	7/31/2023
Louisiana Department of Health and Hospitals	LA028-2023	12/31/2023
Maine Department of Health and Human Services	2022017	6/5/2024
Michigan Depratment of Environmental Quality	9971-2023	4/30/2024
Minnesota Department of Health	2368363	12/31/2023
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2024
Nevada Department of Conservation and Natural Resources	TX026932023-1	7/31/2023
New Hampshire Environmental Laboratory Accreditation Program	209423	4/24/2024
New York Department of Health	11707	3/31/2024
Oklahoma Department of Environmental Quality	2022-141	8/31/2023
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Concervation	TN04016-2023	4/30/2024
Texas Commision on Environmental Quality	T104704231-23-30	4/30/2024
Utah Department of Health Environmental Laboratory Certification	TX026932022-13	7/31/2023
Washington Department of Ecology	C819-22	11/14/2023

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

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Houston, TX 77099
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F: +1 281 530 5887
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Subcontract Chain of Custody

SAMPLING STATE: Texas **COC ID:** 22152

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:	HS23061712
TSR:	Holly Tignac

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS23061712-01**	**1824DPTMW05_062223**	**Water**	**22 Jun 2023 10:30**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			11 Jul 2023
2.	**HS23061712-02**	**18CPTMW105W_062223**	**Water**	**22 Jun 2023 13:35**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			11 Jul 2023
3.	**HS23061712-03**	**18CPTMW108W_062223**	**Water**	**22 Jun 2023 15:40**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			11 Jul 2023
4.	**HS23061712-04**	**18CPTMW108Wa_062223**	**Water**	**22 Jun 2023 15:40**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			11 Jul 2023
5.	**HS23061712-05**	**18CPTMW015W_062223**	**Water**	**22 Jun 2023 11:40**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			11 Jul 2023
6.	**HS23061712-06**	**18CPTMW01DW_062223**	**Water**	**22 Jun 2023 10:20**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			11 Jul 2023
7.	**HS23061712-07**	**MW2_062223**	**Water**	**22 Jun 2023 09:10**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			11 Jul 2023
8.	**HS23061712-08**	**MW1_062223**	**Water**	**22 Jun 2023 12:50**

Subcontract Chain of Custody

SAMPLING STATE: Texas **COC ID:** 22152

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		11 Jul 2023

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: 6-26-23 1510

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

ALS Environmental

Cooler Receipt Form

Project Chemist JG

Client/Project ALS

Thermometer ID 1R31

Date/Time Received: 6.26.23 Initials: CG Date/Time Logged in: 6.26.23 Initials CG

1. Method of delivery: ○ US Mail ○ Fed Ex ○ UPS ○ DHL ✓ Courier (ALS) ○ Client

2. Samples received in: ✓ Cooler ○ Box ○ Envelope ○ Other

3. Were custody seals on coolers? ○ Yes ✓ No
   Were they intact? ○ Yes ○ No ✓ N/A
   Were they signed and dated? ○ Yes ○ No ✓ N/A
   If yes, how many and where?

4. Packing Material: ○ Inserts ✓ Baggies ○ Bubble Wrap ○ Gel Packs ✓ Wet Ice ○ Sleeves ○ Other

5. Foreign or Regulated Soil? ○ Yes ○ No Location of Sampling:

Cooler Tracking Number	COC ID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?
NA		6.26.23	1910	CG	1.7	✓
						☐
						☐
						☐

6. Were custody papers properly filled out (ink, signed, dated, etc)? ✓ Yes ○ No
7. Did all bottles arrive in good condition (not broken, no signs of leakage)? ✓ Yes ○ No
8. Were all sample labels complete (i.e., sample ID, analysis, preservation, etc)? ✓ Yes ○ No
9. Were appropriate bottles/containers and volumes received for the requested tests? ✓ Yes ○ No
10. Did sample labels and tags agree with custody documents? ✓ Yes ○ No

Notes, Discrepancies, & Resolutions:

Service request Label:

10450 Stancliff Rd., Suite 210
Houston, TX 77099
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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#: 422186 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 6/27/23 08:35

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2300606-001	AAR3332	.02	6850/ClO4 DOD			Ground Water	10mL	
2	E2300606-008	AAR3348	.02	6850/ClO4 DOD			Ground Water	10mL	
3	E2300610-001	1824DPTMW05_062223	.01	6850/ClO4 DOD			Water	10mL	
4	E2300610-002	18CPTMW10SW_062223	.01	6850/ClO4 DOD			Water	10mL	
5	E2300610-003	18CPTMW10DW_062223	.01	6850/ClO4 DOD			Water	10mL	
6	E2300610-004	18CPTMW10DW_062223_a	.01	6850/ClO4 DOD			Water	10mL	
7	E2300610-005	18CPTMW01SW_062223	.01	6850/ClO4 DOD			Water	10mL	
8	E2300610-006	18CPTMW01DW_062223	.01	6850/ClO4 DOD			Water	10mL	
9	E2300610-007	MW2_062223	.01	6850/ClO4 DOD			Water	10mL	
10	E2300610-008	MW1_062223	.02	6850/ClO4 DOD			Water	10mL	
11	E2300611-001	18WW19_062323	.01	6850/ClO4 DOD			Water	10mL	
12	E2300611-002	18WW19_062323_a	.01	6850/ClO4 DOD			Water	10mL	
13	E2300611-003	18WW20_062323	.01	6850/ClO4 DOD			Water	10mL	
14	E2300611-004	18WW08_062323	.01	6850/ClO4 DOD			Water	10mL	
15	E2300611-005	18WW09_062323	.01	6850/ClO4 DOD			Water	10mL	
16	E2300611-006	18PTW15_062323	.01	6850/ClO4 DOD			Water	10mL	
17	E2300611-007	18PTW15_062323_a	.01	6850/ClO4 DOD			Water	10mL	
18	E2300611-008	MW18_062323	.01	6850/ClO4 DOD			Water	10mL	
19	E2300611-009	MW19_062323	.01	6850/ClO4 DOD			Water	10mL	
20	E2300611-010	18CPTMW26SW_062323	.01	6850/ClO4 DOD			Water	10mL	
21	EQ2300312-01	MB		6850/ClO4 DOD			Liquid	10mL	
22	EQ2300312-02	LCS		6850/ClO4 DOD			Liquid	10mL	
23	EQ2300312-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
24	EQ2300312-04	AAR3332 MS	.02	6850/ClO4 DOD			Liquid	10mL	
25	EQ2300312-05	AAR3332 DMS	.02	6850/ClO4 DOD			Liquid	10mL	
26	EQ2300312-06	AAR3348 MS	.02	6850/ClO4 DOD			Liquid	10mL	
27	EQ2300312-07	AAR3348 DMS	.02	6850/ClO4 DOD			Liquid	10mL	
28	EQ2300312-08	MW1_062223 MS	.02	6850/ClO4 DOD			Liquid	10mL	
29	EQ2300312-09	MW1_062223 DMS	.02	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock1 Inventory ID 227236 Logbook Ref: Perchlorate (1st Source) Expires On: 07/31/2023

EQ2300312-02 1.00µL EQ2300312-03 1.00µL EQ2300312-04 1.00µL EQ2300312-05 1.00µL EQ2300312-06 1.00µL EQ2300312-07 1.00µL
EQ2300312-08 1.00µL EQ2300312-09 1.00µL

Preparation Information Benchsheet

Prep Run#: 422186 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 6/27/23 08:35

Name:	Perchlorate Internal Standard 1ug/mL	Inventory ID	227244	Logbook Ref:	Perchlorate Internal Standard	Expires On:	07/31/2023

E2300606-001	100.00µL	E2300606-008	100.00µL	E2300610-001	100.00µL	E2300610-002	100.00µL	E2300610-003	100.00µL	E2300610-004	100.00µL
E2300610-005	100.00µL	E2300610-006	100.00µL	E2300610-007	100.00µL	E2300610-008	100.00µL	E2300611-001	100.00µL	E2300611-002	100.00µL
E2300611-003	100.00µL	E2300611-004	100.00µL	E2300611-005	100.00µL	E2300611-006	100.00µL	E2300611-007	100.00µL	E2300611-008	100.00µL
E2300611-009	100.00µL	E2300611-010	100.00µL	EQ2300312-01	100.00µL	EQ2300312-02	100.00µL	EQ2300312-03	100.00µL	EQ2300312-04	100.00µL
EQ2300312-05	100.00µL	EQ2300312-06	100.00µL	EQ2300312-07	100.00µL	EQ2300312-08	100.00µL	EQ2300312-09	100.00µL		

Preparation Steps

Step: Preparation
Started: 6/27/23 08:35
Finished: 6/27/23 16:02
By: XMI
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300610
Project:	HS23061712	**Date Collected:**	6/22/23 1030
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	1824DPTMW05_062223	**Units:**	µg/L
Lab Code:	E2300610-001	**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	**199000**		1000	500	250	10000	6/27/23	6/29/23 15:58	422186	809329	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300610
Project:	HS23061712	**Date Collected:**	6/22/23 1335
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	18CPTMW10SW_062223	**Units:**	µg/L
Lab Code:	E2300610-002	**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	**0.195**		0.100	0.0500	0.0250	1	6/27/23	6/29/23 16:04	422186	809329	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300610
Project:	HS23061712	**Date Collected:**	6/22/23 1540
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	18CPTMW10DW_062223	**Units:**	µg/L
Lab Code:	E2300610-003	**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	6/27/23	6/29/23 16:09	422186	809329	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300610
Project:	HS23061712	**Date Collected:**	6/22/23 1540
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	18CPTMW10DW_062223_a	**Units:**	µg/L
Lab Code:	E2300610-004	**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	**0.0359**	J	0.100	0.0500	0.0250	1	6/27/23	6/29/23 16:15	422186	809329	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300610
Project:	HS23061712	**Date Collected:**	6/22/23 1140
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	18CPTMW01SW_062223	**Units:**	µg/L
Lab Code:	E2300610-005	**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	**0.0345**	J	0.100	0.0500	0.0250	1	6/27/23	6/29/23 16:26	422186	809329	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300610
Project:	HS23061712	**Date Collected:**	6/22/23 1020
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	18CPTMW01DW_062223	**Units:**	µg/L
Lab Code:	E2300610-006	**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	6/27/23	6/29/23 16:32	422186	809329	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300610
Project:	HS23061712	**Date Collected:**	6/22/23 0910
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	MW2_062223	**Units:**	µg/L
Lab Code:	E2300610-007	**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	**0.0940**	J	0.100	0.0500	0.0250	1	6/27/23	6/29/23 16:37	422186	809329	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300610
Project:	HS23061712	**Date Collected:**	6/22/23 1250
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	MW1_062223	**Units:**	µg/L
Lab Code:	E2300610-008	**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	**2160**		10.0	5.00	2.50	100	6/27/23	6/30/23 08:48	422186	809342	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300610
Project:	HS23061712	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2300312-01	**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	6/27/23	6/29/23 14:22	422186	809329	

Accuracy & Precision

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300610
Project:	HS23061712	**Date Analyzed:**	6/30/23 - 6/30/23
Sample Matrix:	Water		

Lab Control Sample Summary

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

Analytical Method:	6850	**Units:**	µg/L
Prep Method:	Method	**Basis:**	NA
		Extraction Lot:	422186

	Lab Control Sample EQ2300312-02			Duplicate Lab Control Sample EQ2300312-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.0868	0.100	87	0.0893	0.100	89	84 - 119	3	15

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

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300610
Project:	HS23061712	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300312-02	**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	**0.0868**	J	0.100	0.0500	0.0250	1	6/27/23	6/30/23 09:12	422186	809342	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300610
Project:	HS23061712	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300312-03	**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	**0.0893**	J	0.100	0.0500	0.0250	1	6/27/23	6/29/23 14:33	422186	809329	

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300610
Project:	HS23061712	**Date Collected:**	6/22/23
Sample Matrix:	Water	**Date Received:**	6/26/23
		Date Analyzed:	6/29/23

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

Sample Name:	MW1_062223	**Units:**	µg/L
Lab Code:	E2300610-008	**Basis:**	NA

Analytical Method: 6850
Prep Method: Method

		MW1_062223MS				MW1_062223DMS					
		Matrix Spike				**Duplicate Matrix Spike**					
		EQ2300312-08				EQ2300312-09					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	2160	2210	0.100	47935 #	2200	0.100	36729 #	84 - 119	<1	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.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300610
Project:	HS23061712	**Date Collected:**	6/22/23 1250
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	MW1_062223	**Units:**	µg/L
Lab Code:	EQ2300312-08	**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	**2210**	E	0.100	0.0500	0.0250	1	6/27/23	6/29/23 16:48	422186	809329	*

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300610
Project:	HS23061712	**Date Collected:**	6/22/23 1250
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	MW1_062223	**Units:**	µg/L
Lab Code:	EQ2300312-09	**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	**2200**	E	0.100	0.0500	0.0250	1	6/27/23	6/29/23 16:54	422186	809329	*

HS23061712-MSVOA-SW8260

ALS WO# HS23061712

01201257

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right partner.

Form 1

Organic Analysis Data Sheet

Volatiles by EPA 8260

Workorder

HS23061712

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061712**

Volatiles by EPA 8260

HS23061712-01 **1824DPTMW05_062223**

Collected	Received	Matrix	Basis
06/22/23 10:30	06/24/23 09:05	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	25	U	7.5	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
1,1,1-Trichloroethane	ug/L	25	U	5.0	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
1,1,2,2-Tetrachloroethane	ug/L	25	U	12	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
1,1,2-Trichloroethane	ug/L	25	U	7.5	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
1,1-Dichloroethane	ug/L	25	U	5.0	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
1,1-Dichloroethene	ug/L	25	U	5.0	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
1,1-Dichloropropene	ug/L	25	U	7.5	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
1,2,3-Trichlorobenzene	ug/L	25	U	10	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
1,2,3-Trichloropropane	ug/L	25	U	12	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
1,2,4-Trichlorobenzene	ug/L	25	U	12	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
1,2,4-Trimethylbenzene	ug/L	25	U	7.5	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
1,2-Dibromo-3-chloropropane	ug/L	25	U	5.0	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
1,2-Dibromoethane	ug/L	25	U	5.0	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
1,2-Dichlorobenzene	ug/L	25	U	12	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
1,2-Dichloroethane	ug/L	84		5.0	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
1,2-Dichloropropane	ug/L	25	U	12	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
1,3,5-Trimethylbenzene	ug/L	25	U	7.5	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
1,3-Dichlorobenzene	ug/L	25	U	10	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
1,3-Dichloropropane	ug/L	25	U	7.5	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
1,4-Dichlorobenzene	ug/L	25	U	10	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
2,2-Dichloropropane	ug/L	25	U	5.0	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
2-Butanone	ug/L	50	U	12	50	50	25	06/26/23 20:58	VOA6_439909	X062625.D
2-Chlorotoluene	ug/L	25	U	7.5	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
2-Hexanone	ug/L	50	U	25	50	50	25	06/26/23 20:58	VOA6_439909	X062625.D
4-Chlorotoluene	ug/L	25	U	10	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
4-Isopropyltoluene	ug/L	25	U	7.5	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
4-Methyl-2-pentanone	ug/L	50	U	18	50	50	25	06/26/23 20:58	VOA6_439909	X062625.D
Acetone	ug/L	50	U	10	50	50	25	06/26/23 20:58	VOA6_439909	X062625.D
Benzene	ug/L	25	U	5.0	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
Bromobenzene	ug/L	25	U	10	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
Bromochloromethane	ug/L	25	U	5.0	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
Bromodichloromethane	ug/L	25	U	5.0	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
Bromoform	ug/L	25	U	10	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061712**

Volatiles by EPA 8260

HS23061712-01 | **1824DPTMW05_062223** | Collected: 06/22/23 10:30 | Received: 06/24/23 09:05 | Matrix: Water | Basis: Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	25	U	10	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
Carbon disulfide	ug/L	50	U	15	50	50	25	06/26/23 20:58	VOA6_439909	X062625.D
Carbon tetrachloride	ug/L	27		12	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
Chlorobenzene	ug/L	25	U	7.5	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
Chloroethane	ug/L	25	U	7.5	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
Chloroform	ug/L	34		5.0	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
Chloromethane	ug/L	25	U	5.0	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
cis-1,2-Dichloroethene	ug/L	82		5.0	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
cis-1,3-Dichloropropene	ug/L	25	U	5.0	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
Dibromochloromethane	ug/L	25	U	7.5	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
Dibromomethane	ug/L	25	U	5.0	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
Dichlorodifluoromethane	ug/L	25	U	7.5	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
Ethylbenzene	ug/L	25	U	7.5	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
Hexachlorobutadiene	ug/L	25	U	25	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
Isopropylbenzene	ug/L	25	U	7.5	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
m,p-Xylene	ug/L	50	U	12	50	50	25	06/26/23 20:58	VOA6_439909	X062625.D
Methylene chloride	ug/L	50	U	10	50	50	25	06/26/23 20:58	VOA6_439909	X062625.D
Naphthalene	ug/L	25	U	7.5	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
n-Butylbenzene	ug/L	25	U	10	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
n-Propylbenzene	ug/L	25	U	7.5	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
o-Xylene	ug/L	25	U	7.5	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
sec-Butylbenzene	ug/L	25	U	7.5	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
Styrene	ug/L	25	U	7.5	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
tert-Butylbenzene	ug/L	25	U	7.5	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
Tetrachloroethene	ug/L	25	U	7.5	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
Toluene	ug/L	25	U	5.0	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
trans-1,2-Dichloroethene	ug/L	25	U	5.0	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
trans-1,3-Dichloropropene	ug/L	25	U	5.0	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
Trichloroethene	ug/L	5,100		20	100	100	100	06/28/23 15:48	VOA6_440138	X062813.D
Trichlorofluoromethane	ug/L	25	U	7.5	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D
Vinyl chloride	ug/L	25	U	5.0	25	25	25	06/26/23 20:58	VOA6_439909	X062625.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061712**

Volatiles by EPA 8260

HS23061712-02	Collected	Received	Matrix	Basis
18CPTMW10SW_062223	06/22/23 13:35	06/24/23 09:05	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/28/23 14:23	VOA6_440138	X062809.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/28/23 14:23	VOA6_440138	X062809.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/28/23 14:23	VOA6_440138	X062809.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/28/23 14:23	VOA6_440138	X062809.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061712**

Volatiles by EPA 8260

HS23061712-02	Collected	Received	Matrix	Basis
18CPTMW10SW_062223	06/22/23 13:35	06/24/23 09:05	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/28/23 14:23	VOA6_440138	X062809.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/28/23 14:23	VOA6_440138	X062809.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/28/23 14:23	VOA6_440138	X062809.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
Trichloroethene	ug/L	2.2		0.20	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 14:23	VOA6_440138	X062809.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061712**

Volatiles by EPA 8260

HS23061712-03

18CPTMW10DW_062223

Collected	Received	Matrix	Basis
06/22/23 15:40	06/24/23 09:05	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 15:21	VOA6_439909	X062609.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/26/23 15:21	VOA6_439909	X062609.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/26/23 15:21	VOA6_439909	X062609.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 15:21	VOA6_439909	X062609.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061712**

Volatiles by EPA 8260

HS23061712-03

18CPTMW10DW_062223

Collected	Received	Matrix	Basis
06/22/23 15:40	06/24/23 09:05	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/26/23 15:21	VOA6_439909	X062609.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 15:21	VOA6_439909	X062609.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 15:21	VOA6_439909	X062609.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
Trichloroethene	ug/L	1.3		0.20	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:21	VOA6_439909	X062609.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061712**

Volatiles by EPA 8260

HS23061712-04

18CPTMW10DW_062223_a

Collected	Received	Matrix	Basis
06/22/23 15:40	06/24/23 09:05	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 15:42	VOA6_439909	X062610.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/26/23 15:42	VOA6_439909	X062610.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/26/23 15:42	VOA6_439909	X062610.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 15:42	VOA6_439909	X062610.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061712**

Volatiles by EPA 8260

HS23061712-04

18CPTMW10DW_062223_a

Collected	Received	Matrix	Basis
06/22/23 15:40	06/24/23 09:05	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/26/23 15:42	VOA6_439909	X062610.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 15:42	VOA6_439909	X062610.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 15:42	VOA6_439909	X062610.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
Trichloroethene	ug/L	1.4		0.20	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:42	VOA6_439909	X062610.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061712**

Volatiles by EPA 8260

HS23061712-05	Collected	Received	Matrix	Basis
18CPTMW01SW_062223	06/23/23 11:40	06/24/23 09:05	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
1,1-Dichloroethane	ug/L	0.72	J	0.20	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/28/23 14:44	VOA6_440138	X062810.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/28/23 14:44	VOA6_440138	X062810.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/28/23 14:44	VOA6_440138	X062810.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/28/23 14:44	VOA6_440138	X062810.D
Benzene	ug/L	3.3		0.20	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
Bromochloromethane	ug/L	4.4		0.20	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061712**

Volatiles by EPA 8260

HS23061712-05	Collected	Received	Matrix	Basis
18CPTMW01SW_062223	06/23/23 11:40	06/24/23 09:05	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/28/23 14:44	VOA6_440138	X062810.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
Chloroform	ug/L	3.8		0.20	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
cis-1,2-Dichloroethene	ug/L	1,100		40	200	200	200	06/29/23 16:18	VOA9_440247	U062916.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
Ethylbenzene	ug/L	1.1		0.30	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
m,p-Xylene	ug/L	1.00	J	0.50	2.0	2.0	1	06/28/23 14:44	VOA6_440138	X062810.D
Methylene chloride	ug/L	5,000		80	400	400	200	06/29/23 16:18	VOA9_440247	U062916.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
o-Xylene	ug/L	0.76	J	0.30	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
Tetrachloroethene	ug/L	1.2		0.30	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
Toluene	ug/L	3.0		0.20	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
trans-1,2-Dichloroethene	ug/L	4.7		0.20	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
Trichloroethene	ug/L	69		0.20	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 14:44	VOA6_440138	X062810.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061712**

Volatiles by EPA 8260

HS23061712-06

18CPTMW01DW_062323

Collected	Received	Matrix	Basis
06/23/23 10:20	06/24/23 09:05	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 20:37	VOA6_439909	X062624.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/26/23 20:37	VOA6_439909	X062624.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/26/23 20:37	VOA6_439909	X062624.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 20:37	VOA6_439909	X062624.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061712**

Volatiles by EPA 8260

HS23061712-06	Collected	Received	Matrix	Basis
18CPTMW01DW_062323	06/23/23 10:20	06/24/23 09:05	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/26/23 20:37	VOA6_439909	X062624.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 20:37	VOA6_439909	X062624.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 20:37	VOA6_439909	X062624.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:37	VOA6_439909	X062624.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061712**

Volatiles by EPA 8260

HS23061712-07	Collected	Received	Matrix	Basis
MW2_062323	06/23/23 09:10	06/24/23 09:05	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	25	U	7.5	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
1,1,1-Trichloroethane	ug/L	25	U	5.0	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
1,1,2,2-Tetrachloroethane	ug/L	25	U	12	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
1,1,2-Trichloroethane	ug/L	25	U	7.5	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
1,1-Dichloroethane	ug/L	16	J	5.0	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
1,1-Dichloroethene	ug/L	25	U	5.0	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
1,1-Dichloropropene	ug/L	25	U	7.5	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
1,2,3-Trichlorobenzene	ug/L	25	U	10	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
1,2,3-Trichloropropane	ug/L	25	U	12	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
1,2,4-Trichlorobenzene	ug/L	25	U	12	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
1,2,4-Trimethylbenzene	ug/L	25	U	7.5	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
1,2-Dibromo-3-chloropropane	ug/L	25	U	5.0	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
1,2-Dibromoethane	ug/L	25	U	5.0	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
1,2-Dichlorobenzene	ug/L	25	U	12	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
1,2-Dichloroethane	ug/L	25	U	5.0	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
1,2-Dichloropropane	ug/L	25	U	12	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
1,3,5-Trimethylbenzene	ug/L	25	U	7.5	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
1,3-Dichlorobenzene	ug/L	25	U	10	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
1,3-Dichloropropane	ug/L	25	U	7.5	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
1,4-Dichlorobenzene	ug/L	25	U	10	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
2,2-Dichloropropane	ug/L	25	U	5.0	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
2-Butanone	ug/L	50	U	12	50	50	25	06/26/23 22:01	VOA6_439909	X062628.D
2-Chlorotoluene	ug/L	25	U	7.5	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
2-Hexanone	ug/L	50	U	25	50	50	25	06/26/23 22:01	VOA6_439909	X062628.D
4-Chlorotoluene	ug/L	25	U	10	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
4-Isopropyltoluene	ug/L	25	U	7.5	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
4-Methyl-2-pentanone	ug/L	50	U	18	50	50	25	06/26/23 22:01	VOA6_439909	X062628.D
Acetone	ug/L	50	U	10	50	50	25	06/26/23 22:01	VOA6_439909	X062628.D
Benzene	ug/L	25	U	5.0	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
Bromobenzene	ug/L	25	U	10	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
Bromochloromethane	ug/L	25	U	5.0	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
Bromodichloromethane	ug/L	25	U	5.0	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
Bromoform	ug/L	25	U	10	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061712**

Volatiles by EPA 8260

HS23061712-07

MW2_062323

Collected	Received	Matrix	Basis
06/23/23 09:10	06/24/23 09:05	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	25	U	10	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
Carbon disulfide	ug/L	50	U	15	50	50	25	06/26/23 22:01	VOA6_439909	X062628.D
Carbon tetrachloride	ug/L	25	U	12	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
Chlorobenzene	ug/L	25	U	7.5	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
Chloroethane	ug/L	25	U	7.5	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
Chloroform	ug/L	43		5.0	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
Chloromethane	ug/L	25	U	5.0	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
cis-1,2-Dichloroethene	ug/L	25,000		50	250	250	250	06/26/23 22:22	VOA6_439909	X062629.D
cis-1,3-Dichloropropene	ug/L	25	U	5.0	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
Dibromochloromethane	ug/L	25	U	7.5	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
Dibromomethane	ug/L	25	U	5.0	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
Dichlorodifluoromethane	ug/L	25	U	7.5	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
Ethylbenzene	ug/L	15	J	7.5	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
Hexachlorobutadiene	ug/L	25	U	25	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
Isopropylbenzene	ug/L	25	U	7.5	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
m,p-Xylene	ug/L	50	U	12	50	50	25	06/26/23 22:01	VOA6_439909	X062628.D
Methylene chloride	ug/L	74		10	50	50	25	06/26/23 22:01	VOA6_439909	X062628.D
Naphthalene	ug/L	25	U	7.5	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
n-Butylbenzene	ug/L	25	U	10	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
n-Propylbenzene	ug/L	25	U	7.5	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
o-Xylene	ug/L	25	U	7.5	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
sec-Butylbenzene	ug/L	25	U	7.5	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
Styrene	ug/L	25	U	7.5	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
tert-Butylbenzene	ug/L	25	U	7.5	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
Tetrachloroethene	ug/L	45		7.5	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
Toluene	ug/L	16	J	5.0	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
trans-1,2-Dichloroethene	ug/L	69		5.0	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
trans-1,3-Dichloropropene	ug/L	25	U	5.0	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
Trichloroethene	ug/L	5,400		50	250	250	250	06/26/23 22:22	VOA6_439909	X062629.D
Trichlorofluoromethane	ug/L	25	U	7.5	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D
Vinyl chloride	ug/L	14	J	5.0	25	25	25	06/26/23 22:01	VOA6_439909	X062628.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061712**

Volatiles by EPA 8260

HS23061712-08	Collected	Received	Matrix	Basis
MW1_062323	06/23/23 12:50	06/24/23 09:05	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	20	U	6.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
1,1,1-Trichloroethane	ug/L	20	U	4.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
1,1,2,2-Tetrachloroethane	ug/L	20	U	10	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
1,1,2-Trichloroethane	ug/L	20	U	6.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
1,1-Dichloroethane	ug/L	20	U	4.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
1,1-Dichloroethene	ug/L	20	U	4.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
1,1-Dichloropropene	ug/L	20	U	6.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
1,2,3-Trichlorobenzene	ug/L	20	U	8.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
1,2,3-Trichloropropane	ug/L	20	U	10	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
1,2,4-Trichlorobenzene	ug/L	20	U	10	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
1,2,4-Trimethylbenzene	ug/L	20	U	6.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
1,2-Dibromo-3-chloropropane	ug/L	20	U	4.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
1,2-Dibromoethane	ug/L	20	U	4.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
1,2-Dichlorobenzene	ug/L	20	U	10	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
1,2-Dichloroethane	ug/L	620		4.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
1,2-Dichloropropane	ug/L	20	U	10	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
1,3,5-Trimethylbenzene	ug/L	20	U	6.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
1,3-Dichlorobenzene	ug/L	20	U	8.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
1,3-Dichloropropane	ug/L	20	U	6.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
1,4-Dichlorobenzene	ug/L	20	U	8.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
2,2-Dichloropropane	ug/L	20	U	4.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
2-Butanone	ug/L	40	U	10	40	40	20	06/26/23 21:19	VOA6_439909	X062626.D
2-Chlorotoluene	ug/L	20	U	6.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
2-Hexanone	ug/L	40	U	20	40	40	20	06/26/23 21:19	VOA6_439909	X062626.D
4-Chlorotoluene	ug/L	20	U	8.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
4-Isopropyltoluene	ug/L	20	U	6.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
4-Methyl-2-pentanone	ug/L	40	U	14	40	40	20	06/26/23 21:19	VOA6_439909	X062626.D
Acetone	ug/L	40	U	8.0	40	40	20	06/26/23 21:19	VOA6_439909	X062626.D
Benzene	ug/L	20	U	4.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
Bromobenzene	ug/L	20	U	8.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
Bromochloromethane	ug/L	20	U	4.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
Bromodichloromethane	ug/L	20	U	4.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
Bromoform	ug/L	20	U	8.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061712**

Volatiles by EPA 8260

HS23061712-08				Collected	Received	Matrix	Basis
MW1_062323				06/23/23 12:50	06/24/23 09:05	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	20	U	8.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
Carbon disulfide	ug/L	40	U	12	40	40	20	06/26/23 21:19	VOA6_439909	X062626.D
Carbon tetrachloride	ug/L	20	U	10	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
Chlorobenzene	ug/L	20	U	6.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
Chloroethane	ug/L	20	U	6.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
Chloroform	ug/L	21		4.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
Chloromethane	ug/L	20	U	4.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
cis-1,2-Dichloroethene	ug/L	9,100		40	200	200	200	06/26/23 21:40	VOA6_439909	X062627.D
cis-1,3-Dichloropropene	ug/L	20	U	4.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
Dibromochloromethane	ug/L	20	U	6.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
Dibromomethane	ug/L	20	U	4.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
Dichlorodifluoromethane	ug/L	20	U	6.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
Ethylbenzene	ug/L	20	U	6.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
Hexachlorobutadiene	ug/L	20	U	20	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
Isopropylbenzene	ug/L	20	U	6.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
m,p-Xylene	ug/L	40	U	10	40	40	20	06/26/23 21:19	VOA6_439909	X062626.D
Methylene chloride	ug/L	40	U	8.0	40	40	20	06/26/23 21:19	VOA6_439909	X062626.D
Naphthalene	ug/L	20	U	6.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
n-Butylbenzene	ug/L	20	U	8.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
n-Propylbenzene	ug/L	20	U	6.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
o-Xylene	ug/L	20	U	6.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
sec-Butylbenzene	ug/L	20	U	6.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
Styrene	ug/L	20	U	6.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
tert-Butylbenzene	ug/L	20	U	6.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
Tetrachloroethene	ug/L	20	U	6.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
Toluene	ug/L	20	U	4.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
trans-1,2-Dichloroethene	ug/L	19	J	4.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
trans-1,3-Dichloropropene	ug/L	20	U	4.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
Trichloroethene	ug/L	9,400		40	200	200	200	06/26/23 21:40	VOA6_439909	X062627.D
Trichlorofluoromethane	ug/L	20	U	6.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D
Vinyl chloride	ug/L	20	U	4.0	20	20	20	06/26/23 21:19	VOA6_439909	X062626.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061712**

Volatiles by EPA 8260

HS23061712-09

Trip Blank

Collected	Received	Matrix	Basis
06/22/23 00:00	06/24/23 09:05	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 17:28	VOA6_439909	X062615.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/26/23 17:28	VOA6_439909	X062615.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/26/23 17:28	VOA6_439909	X062615.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 17:28	VOA6_439909	X062615.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061712**

Volatiles by EPA 8260

HS23061712-09

Trip Blank

Collected	Received	Matrix	Basis
06/22/23 00:00	06/24/23 09:05	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/26/23 17:28	VOA6_439909	X062615.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 17:28	VOA6_439909	X062615.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 17:28	VOA6_439909	X062615.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:28	VOA6_439909	X062615.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061712**

Volatiles by EPA 8260

VBLKW-230626	Collected	Received	Matrix	Basis
VBLKW-230626	NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 14:39	VOA6_439909	X062607.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/26/23 14:39	VOA6_439909	X062607.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061712**

Volatiles by EPA 8260

VBLKW-230626	Collected	Received	Matrix	Basis
VBLKW-230626	NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061712**

Volatiles by EPA 8260

VBLKW-230628	Collected	Received	Matrix	Basis
VBLKW-230628	NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/28/23 13:41	VOA6_440138	X062807.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/28/23 13:41	VOA6_440138	X062807.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061712**

Volatiles by EPA 8260

VBLKW-230628	Collected	Received	Matrix	Basis
VBLKW-230628	NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061712**

Volatiles by EPA 8260

VBLKW-230629	Collected	Received	Matrix	Basis
VBLKW-230629	NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/29/23 12:39	VOA9_440247	U062907.D

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Form 2

System Monitoring Compound Recovery

Volatiles by EPA 8260

Workorder

HS23061712

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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 Site18/24

Workorder HS23061712

RunID VOA6-439909

Volatiles by EPA 8260

CCB-CCB	Analyzed	Conc Units	Dilution
CCB	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	46.1	50	92.2		80-120
4-Bromofluorobenzene	47.69	50	95.4		80-120
Dibromofluoromethane	47.41	50	94.8		80-120
Toluene-d8	51.73	50	103		80-120

CCV-CCV	Analyzed	Conc Units	Dilution
CCV	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	49.91	50	99.8		80-120
4-Bromofluorobenzene	50.59	50	101		80-120
Dibromofluoromethane	50.9	50	102		80-120
Toluene-d8	48.11	50	96.2		80-120

HS23061707-01MS	Analyzed	Conc Units	Dilution
BatchQC	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	44.63	50	89.3		81-118
4-Bromofluorobenzene	48.97	50	97.9		85-114
Dibromofluoromethane	47.2	50	94.4		80-119
Toluene-d8	51.39	50	103		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder HS23061712

RunID VOA6-439909

Volatiles by EPA 8260

HS23061707-01MSD	Analyzed	Conc Units	Dilution
BatchQC	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	45.18	50	90.4		81-118
4-Bromofluorobenzene	49.11	50	98.2		85-114
Dibromofluoromethane	46.8	50	93.6		80-119
Toluene-d8	51.65	50	103		89-112

HS23061712-01	Analyzed	Conc Units	Dilution
1824DPTMW05_062223	06/26/23	%REC	25

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	1200	1250	92.4		81-118
4-Bromofluorobenzene	1200	1250	96.5		85-114
Dibromofluoromethane	1200	1250	94.3		80-119
Toluene-d8	1300	1250	105		89-112

HS23061712-03	Analyzed	Conc Units	Dilution
18CPTMW10DW_062223	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	47	50	93.8		81-118
4-Bromofluorobenzene	48	50	96.9		85-114
Dibromofluoromethane	47	50	94.5		80-119
Toluene-d8	52	50	105		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder HS23061712

RunID VOA6-439909

Volatiles by EPA 8260

HS23061712-04	Analyzed	Conc Units	Dilution
18CPTMW10DW_062223_a	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	47	50	94.5		81-118
4-Bromofluorobenzene	47	50	94.0		85-114
Dibromofluoromethane	47	50	94.3		80-119
Toluene-d8	52	50	103		89-112

HS23061712-06	Analyzed	Conc Units	Dilution
18CPTMW01DW_062323	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	45	50	90.1		81-118
4-Bromofluorobenzene	47	50	94.3		85-114
Dibromofluoromethane	47	50	93.9		80-119
Toluene-d8	52	50	105		89-112

HS23061712-07	Analyzed	Conc Units	Dilution
MW2_062323	06/26/23	%REC	25

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	1200	1250	92.6		81-118
4-Bromofluorobenzene	1200	1250	96.1		85-114
Dibromofluoromethane	1200	1250	94.6		80-119
Toluene-d8	1300	1250	103		89-112
1,2-Dichloroethane-d4	11000	12500	90.9		81-118
4-Bromofluorobenzene	12000	12500	96.2		85-114
Dibromofluoromethane	12000	12500	94.5		80-119
Toluene-d8	13000	12500	104		89-112

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP Site18/24

Workorder: HS23061712

RunID: VOA6-439909

Volatiles by EPA 8260

HS23061712-08	Analyzed	Conc Units	Dilution
MW1_062323	06/26/23	%REC	20

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	900	1000	90.0		81-118
4-Bromofluorobenzene	960	1000	96.5		85-114
Dibromofluoromethane	940	1000	93.9		80-119
Toluene-d8	1100	1000	106		89-112
1,2-Dichloroethane-d4	9100	10000	90.6		81-118
4-Bromofluorobenzene	9400	10000	94.5		85-114
Dibromofluoromethane	9400	10000	94.2		80-119
Toluene-d8	10000	10000	103		89-112

HS23061712-08MS	Analyzed	Conc Units	Dilution
MW1_062323	06/26/23	%REC	200

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	8821	10000	88.2		81-118
4-Bromofluorobenzene	9699	10000	97.0		85-114
Dibromofluoromethane	9300	10000	93.0		80-119
Toluene-d8	10380	10000	104		89-112

HS23061712-08MSD	Analyzed	Conc Units	Dilution
MW1_062323	06/26/23	%REC	200

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	8922	10000	89.2		81-118
4-Bromofluorobenzene	9701	10000	97.0		85-114
Dibromofluoromethane	9370	10000	93.7		80-119
Toluene-d8	10140	10000	101		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder HS23061712

RunID VOA6-439909

Volatiles by EPA 8260

HS23061712-09	Analyzed	Conc Units	Dilution
Trip Blank	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	47	50	93.7		81-118
4-Bromofluorobenzene	49	50	97.2		85-114
Dibromofluoromethane	48	50	95.4		80-119
Toluene-d8	52	50	104		89-112

VBLKW-230626	Analyzed	Conc Units	Dilution
VBLKW-230626	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	46.2	50	92.4		81-118
4-Bromofluorobenzene	48.71	50	97.4		85-114
Dibromofluoromethane	47.26	50	94.5		80-119
Toluene-d8	51.65	50	103		89-112

VLCSW-230626	Analyzed	Conc Units	Dilution
VLCSW-230626	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	50.44	50	101		81-118
4-Bromofluorobenzene	50.41	50	101		85-114
Dibromofluoromethane	50.44	50	101		80-119
Toluene-d8	49.18	50	98.4		89-112

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP Site18/24

Workorder: HS23061712

RunID: VOA6-440138

Volatiles by EPA 8260

CCB-CCB	Analyzed	Conc Units	Dilution
CCB	06/28/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	41.02	50	82.0		80-120
4-Bromofluorobenzene	45.83	50	91.7		80-120
Dibromofluoromethane	45.07	50	90.1		80-120
Toluene-d8	51.72	50	103		80-120

CCV-CCV	Analyzed	Conc Units	Dilution
CCV	06/28/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	43.63	50	87.3		80-120
4-Bromofluorobenzene	48.91	50	97.8		80-120
Dibromofluoromethane	47.4	50	94.8		80-120
Toluene-d8	47.39	50	94.8		80-120

HS23061712-01	Analyzed	Conc Units	Dilution
1824DPTMW05_062223	06/28/23	%REC	100

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	4200	5000	83.9		81-118
4-Bromofluorobenzene	4600	5000	91.2		85-114
Dibromofluoromethane	4600	5000	91.6		80-119
Toluene-d8	5200	5000	104		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder HS23061712

RunID VOA6-440138

Volatiles by EPA 8260

HS23061712-02	Analyzed	Conc Units	Dilution
18CPTMW10SW_062223	06/28/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	42	50	83.8		81-118
4-Bromofluorobenzene	47	50	94.6		85-114
Dibromofluoromethane	45	50	90.3		80-119
Toluene-d8	52	50	105		89-112

HS23061712-05	Analyzed	Conc Units	Dilution
18CPTMW01SW_062223	06/28/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	41	50	81.9		81-118
4-Bromofluorobenzene	48	50	95.4		85-114
Dibromofluoromethane	46	50	91.3		80-119
Toluene-d8	51	50	101		89-112

HS23061821-02MS	Analyzed	Conc Units	Dilution
BatchQC	06/28/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	41.14	50	82.3		81-118
4-Bromofluorobenzene	47.11	50	94.2		85-114
Dibromofluoromethane	45.16	50	90.3		80-119
Toluene-d8	51.16	50	102		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder HS23061712

RunID VOA6-440138

Volatiles by EPA 8260

HS23061821-02MSD	Analyzed	Conc Units	Dilution
BatchQC	06/28/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	40.74	50	81.5		81-118
4-Bromofluorobenzene	47.37	50	94.7		85-114
Dibromofluoromethane	44.88	50	89.8		80-119
Toluene-d8	50.86	50	102		89-112

VBLKW-230628	Analyzed	Conc Units	Dilution
VBLKW-230628	06/28/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	40.53	50	81.1		81-118
4-Bromofluorobenzene	46.45	50	92.9		85-114
Dibromofluoromethane	43.97	50	87.9		80-119
Toluene-d8	51.1	50	102		89-112

VLCSW-230628	Analyzed	Conc Units	Dilution
VLCSW-230628	06/28/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	43	50	86.0		81-118
4-Bromofluorobenzene	48.53	50	97.1		85-114
Dibromofluoromethane	47.12	50	94.2		80-119
Toluene-d8	47.35	50	94.7		89-112

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP Site18/24

Workorder: HS23061712

RunID: VOA9-440247

Volatiles by EPA 8260

CCB-CCB	Analyzed	Conc Units	Dilution
CCB	06/29/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	50.12	50	100		80-120
4-Bromofluorobenzene	48.15	50	96.3		80-120
Dibromofluoromethane	48.17	50	96.3		80-120
Toluene-d8	54.19	50	108		80-120

CCV-CCV	Analyzed	Conc Units	Dilution
CCV	06/29/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	48.83	50	97.7		80-120
4-Bromofluorobenzene	50.92	50	102		80-120
Dibromofluoromethane	48.75	50	97.5		80-120
Toluene-d8	47.68	50	95.4		80-120

HS23061712-05	Analyzed	Conc Units	Dilution
18CPTMW01SW_062223	06/29/23	%REC	200

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	10000	10000	102		81-118
4-Bromofluorobenzene	9400	10000	94.5		85-114
Dibromofluoromethane	9800	10000	98.2		80-119
Toluene-d8	11000	10000	109		89-112

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP Site18/24

Workorder: HS23061712

RunID: VOA9-440247

Volatiles by EPA 8260

HS23061825-03MS	Analyzed	Conc Units	Dilution
BatchQC	06/29/23	%REC	50

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2589	2500	104		81-118
4-Bromofluorobenzene	2564	2500	103		85-114
Dibromofluoromethane	2493	2500	99.7		80-119
Toluene-d8	2704	2500	108		89-112

HS23061825-03MSD	Analyzed	Conc Units	Dilution
BatchQC	06/29/23	%REC	50

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2532	2500	101		81-118
4-Bromofluorobenzene	2523	2500	101		85-114
Dibromofluoromethane	2493	2500	99.7		80-119
Toluene-d8	2723	2500	109		89-112

VBLKW-230629	Analyzed	Conc Units	Dilution
VBLKW-230629	06/29/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	51.09	50	102		81-118
4-Bromofluorobenzene	47.17	50	94.3		85-114
Dibromofluoromethane	48.53	50	97.1		80-119
Toluene-d8	53.86	50	108		89-112

Form 2 - System Monitoring Compound Recovery

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site18/24	**HS23061712**	

RunID

Volatiles by EPA 8260

VOA9-440247

VLCSW-230629	Analyzed	Conc Units	Dilution
VLCSW-230629	06/29/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	51.69	50	103		81-118
4-Bromofluorobenzene	51.6	50	103		85-114
Dibromofluoromethane	50.54	50	101		80-119
Toluene-d8	48.55	50	97.1		89-112

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Form 3A

Matrix Spike/Spike Duplicate Recovery

Volatiles by EPA 8260

Workorder

HS23061712

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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 Site18/24

Workorder: HS23061712

RunID: VOA6-439909

Volatiles by EPA 8260

BatchQC (HS23061707-01)				HS23061707-01MS				HS23061707-01MSD						
Sample Matrix: Aqueous			Run Date	06/26/23				06/26/23						
Result Units: ug/L			Run Time	16:04				16:25						
			Data File	X062611.D				X062612.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	1	0	22.06	20	110		21.25	20	106		20	3.76	
1,1,1-Trichloroethane	74-131	1	0	20.81	20	104		19.75	20	99		20	5.24	
1,1,2,2-Tetrachloroethane	71-121	1	0	19.66	20	98		20.44	20	102		20	3.92	
1,1,2-Trichloroethane	80-119	1	0	21.1	20	105		21	20	105		20	0.484	
1,1-Dichloroethane	77-125	1	0	19.56	20	98		18.53	20	93		20	5.41	
1,1-Dichloroethene	71-131	1	0	21.49	20	107		19.9	20	100		20	7.69	
1,1-Dichloropropene	78-125	1	0	23.15	20	116		21.77	20	109		20	6.12	
1,2,3-Trichlorobenzene	69-129	1	0	22.35	20	112		23.55	20	118		20	5.2	
1,2,3-Trichloropropane	73-122	1	0	20.04	20	100		20.43	20	102		20	1.95	
1,2,4-Trichlorobenzene	69-130	1	0	23.41	20	117		23.81	20	119		20	1.73	
1,2,4-Trimethylbenzene	76-124	1	0	23.1	20	116		23.2	20	116		20	0.416	
1,2-Dibromo-3-chloropropane	62-128	1	0	21.18	20	106		20.87	20	104		20	1.46	
1,2-Dibromoethane	77-121	1	0	20.53	20	103		20.76	20	104		20	1.12	
1,2-Dichlorobenzene	80-119	1	0	22.54	20	113		22.69	20	113		20	0.631	
1,2-Dichloroethane	73-128	1	0	20.75	20	104		20.85	20	104		20	0.459	
1,2-Dichloropropane	78-122	1	0	20.85	20	104		20.43	20	102		20	2.03	
1,3,5-Trimethylbenzene	75-124	1	0	23.55	20	118		23.66	20	118		20	0.452	
1,3-Dichlorobenzene	80-119	1	0	22.89	20	114		23.1	20	115		20	0.904	
1,3-Dichloropropane	80-119	1	0	21.26	20	106		21.2	20	106		20	0.245	
1,4-Dichlorobenzene	79-118	1	0	22.47	20	112		22.49	20	112		20	0.0855	
2,2-Dichloropropane	60-139	1	0	22.39	20	112		20.87	20	104		20	7.02	
2-Butanone	56-143	1	0	28.61	40	72		27.74	40	69		20	3.08	
2-Chlorotoluene	79-122	1	0	22.76	20	114		22.7	20	114		20	0.258	
2-Hexanone	57-139	1	0	37.15	40	93		38.83	40	97		20	4.41	
4-Chlorotoluene	78-122	1	0	23.2	20	116		23.44	20	117		20	1.02	
4-Isopropyltoluene	77-127	1	0	25.08	20	125		25.03	20	125		20	0.183	
4-Methyl-2-pentanone	67-130	1	0	37.93	40	95		39	40	98		20	2.78	
Acetone	39-160	1	0	30.14	40	75		28.64	40	72		20	5.12	
Benzene	79-120	1	0	21.75	20	109		20.52	20	103		20	5.84	
Bromobenzene	80-120	1	0	22.44	20	112		22.49	20	112		20	0.224	
Bromochloromethane	78-123	1	0	18.89	20	94		18.77	20	94		20	0.669	
Bromodichloromethane	79-125	1	0	20.81	20	104		19.85	20	99		20	4.74	
Bromoform	66-130	1	0	21.14	20	106		20.95	20	105		20	0.921	
Bromomethane	53-141	1	0	20.82	20	104		20.17	20	101		20	3.2	

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 Site18/24

Workorder **HS23061712**

RunID VOA6-439909

Volatiles by EPA 8260

BatchQC (HS23061707-01)				HS23061707-01MS				HS23061707-01MSD						
Sample Matrix: Aqueous			Run Date	06/26/23				06/26/23						
Result Units: ug/L			Run Time	16:04				16:25						
			Data File	X062611.D				X062612.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Carbon disulfide	64-133	1	0	36.39	40	91		33.81	40	84		20	7.37	
Carbon tetrachloride	72-136	1	0	23.78	20	119		22.16	20	111		20	7.02	
Chlorobenzene	82-118	1	0	22.77	20	114		22.17	20	111		20	2.67	
Chloroethane	60-138	1	0	22.15	20	111		19.48	20	97		20	12.8	
Chloroform	79-124	1	0	18.94	20	95		18.41	20	92		20	2.86	
Chloromethane	50-139	1	0	19.49	20	98		18.6	20	93		20	4.71	
cis-1,2-Dichloroethene	78-123	1	0	19.78	20	99		19.23	20	96		20	2.83	
cis-1,3-Dichloropropene	75-124	1	0	20.98	20	105		20.37	20	102		20	2.96	
Dibromochloromethane	74-126	1	0	21.47	20	107		21.18	20	106		20	1.33	
Dibromomethane	79-123	1	0	21	20	105		20.51	20	103		20	2.37	
Dichlorodifluoromethane	32-152	1	0	18.2	20	91		16.42	20	82		20	10.3	
Ethylbenzene	79-121	1	0	23.59	20	118		22.84	20	114		20	3.22	
Hexachlorobutadiene	66-134	1	0	25.54	20	128		25.95	20	130		20	1.6	
Isopropylbenzene	72-131	1	0	24.29	20	121		23.51	20	118		20	3.27	
m,p-Xylene	80-121	1	0	48.89	40	122		46.9	40	117		20	4.16	
Methylene chloride	74-124	1	0	18.34	20	92		17.84	20	89		20	2.73	
Naphthalene	61-128	1	0	20.82	20	104		22.06	20	110		20	5.81	
n-Butylbenzene	75-128	1	0	25.38	20	127		25.8	20	129		20	1.61	
n-Propylbenzene	76-126	1	0	24.27	20	121		24.13	20	121		20	0.572	
o-Xylene	78-122	1	0	23.13	20	116		22.34	20	112		20	3.49	
sec-Butylbenzene	77-126	1	0	24.77	20	124		24.8	20	124		20	0.0965	
Styrene	78-123	1	0	23.2	20	116		22.61	20	113		20	2.6	
tert-Butylbenzene	78-124	1	0	24.48	20	122		24.37	20	122		20	0.469	
Tetrachloroethene	74-129	1	0	25.38	20	127		24.14	20	121		20	5.01	
Toluene	80-121	1	0	23.26	20	116		22.53	20	113		20	3.16	
trans-1,2-Dichloroethene	75-124	1	0	20.57	20	103		19.02	20	95		20	7.81	
trans-1,3-Dichloropropene	73-127	1	0	20.81	20	104		20	20	100		20	3.95	
Trichloroethene	79-123	1	0	22.59	20	113		21.56	20	108		20	4.69	
Trichlorofluoromethane	65-141	1	0	22.64	20	113		20.97	20	105		20	7.65	
Vinyl chloride	58-137	1	0	19.97	20	100		18.6	20	93		20	7.06	

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 Site18/24

Workorder **HS23061712**

RunID VOA6-439909

Volatiles by EPA 8260

MW1_062323 (HS23061712-08)				HS23061712-08MS				HS23061712-08MSD						
Sample Matrix: Aqueous			Run Date	06/26/23				06/26/23						
Result Units: ug/L			Run Time	22:44				23:05						
			Data File	X062630.D				X062631.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	200	0	4396	4000	110		4185	4000	105		20	4.92	
1,1,1-Trichloroethane	74-131	200	0	4047	4000	101		3883	4000	97		20	4.12	
1,1,2,2-Tetrachloroethane	71-121	200	0	4134	4000	103		3746	4000	94		20	9.86	
1,1,2-Trichloroethane	80-119	200	0	4225	4000	106		3975	4000	99		20	6.08	
1,1-Dichloroethane	77-125	200	0	3751	4000	94		3632	4000	91		20	3.23	
1,1-Dichloroethene	71-131	200	0	4102	4000	103		3989	4000	100		20	2.8	
1,1-Dichloropropene	78-125	200	0	4429	4000	111		4213	4000	105		20	5	
1,2,3-Trichlorobenzene	69-129	200	0	4721	4000	118		4408	4000	110		20	6.85	
1,2,3-Trichloropropane	73-122	200	0	4271	4000	107		3775	4000	94		20	12.3	
1,2,4-Trichlorobenzene	69-130	200	0	4805	4000	120		4393	4000	110		20	8.97	
1,2,4-Trimethylbenzene	76-124	200	0	4795	4000	120		4339	4000	108		20	10	
1,2-Dibromo-3-chloropropane	62-128	200	0	4354	4000	109		3915	4000	98		20	10.6	
1,2-Dibromoethane	77-121	200	0	4218	4000	105		4043	4000	101		20	4.24	
1,2-Dichlorobenzene	80-119	200	0	4657	4000	116		4279	4000	107		20	8.44	
1,2-Dichloroethane	73-128	200	671.3	4661	4000	100		4584	4000	98		20	1.66	
1,2-Dichloropropane	78-122	200	0	4069	4000	102		4009	4000	100		20	1.49	
1,3,5-Trimethylbenzene	75-124	200	0	4810	4000	120		4420	4000	110		20	8.46	
1,3-Dichlorobenzene	80-119	200	0	4691	4000	117		4276	4000	107		20	9.24	
1,3-Dichloropropane	80-119	200	0	4234	4000	106		4038	4000	101		20	4.72	
1,4-Dichlorobenzene	79-118	200	0	4573	4000	114		4181	4000	105		20	8.96	
2,2-Dichloropropane	60-139	200	0	3887	4000	97		3756	4000	94		20	3.41	
2-Butanone	56-143	200	0	6170	8000	77		5693	8000	71		20	8.05	
2-Chlorotoluene	79-122	200	0	4672	4000	117		4207	4000	105		20	10.5	
2-Hexanone	57-139	200	0	7769	8000	97		7151	8000	89		20	8.29	
4-Chlorotoluene	78-122	200	0	4666	4000	117		4324	4000	108		20	7.62	
4-Isopropyltoluene	77-127	200	0	5015	4000	125		4557	4000	114		20	9.56	
4-Methyl-2-pentanone	67-130	200	0	7903	8000	99		7320	8000	92		20	7.66	
Acetone	39-160	200	0	5906	8000	74		6066	8000	76		20	2.67	
Benzene	79-120	200	0	4183	4000	105		4102	4000	103		20	1.97	
Bromobenzene	80-120	200	0	4677	4000	117		4318	4000	108		20	7.97	
Bromochloromethane	78-123	200	0	3847	4000	96		3685	4000	92		20	4.32	
Bromodichloromethane	79-125	200	0	4030	4000	101		3915	4000	98		20	2.9	
Bromoform	66-130	200	0	4269	4000	107		4064	4000	102		20	4.93	
Bromomethane	53-141	200	0	4100	4000	103		3658	4000	92		20	11.4	

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 Site18/24

Workorder **HS23061712**

RunID VOA6-439909

Volatiles by EPA 8260

MW1_062323 (HS23061712-08)				HS23061712-08MS				HS23061712-08MSD						
Sample Matrix: Aqueous			Run Date	06/26/23				06/26/23						
Result Units: ug/L			Run Time	22:44				23:05						
			Data File	X062630.D				X062631.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Carbon disulfide	64-133	200	0	6965	8000	87		6739	8000	84		20	3.31	
Carbon tetrachloride	72-136	200	0	4562	4000	114		4406	4000	110		20	3.46	
Chlorobenzene	82-118	200	0	4567	4000	114		4285	4000	107		20	6.37	
Chloroethane	60-138	200	0	3955	4000	99		3741	4000	94		20	5.57	
Chloroform	79-124	200	0	3673	4000	92		3622	4000	90		20	1.42	
Chloromethane	50-139	200	0	3752	4000	94		3688	4000	92		20	1.73	
cis-1,2-Dichloroethene	78-123	200	9060	12650	4000	90		12020	4000	74		20	5.12	
cis-1,3-Dichloropropene	75-124	200	0	4003	4000	100		3914	4000	98		20	2.24	
Dibromochloromethane	74-126	200	0	4312	4000	108		4098	4000	102		20	5.08	
Dibromomethane	79-123	200	0	4083	4000	102		4076	4000	102		20	0.179	
Dichlorodifluoromethane	32-152	200	0	3311	4000	83		3175	4000	79		20	4.2	
Ethylbenzene	79-121	200	0	4682	4000	117		4393	4000	110		20	6.37	
Hexachlorobutadiene	66-134	200	0	5284	4000	132		4732	4000	118		20	11	
Isopropylbenzene	72-131	200	0	4835	4000	121		4550	4000	114		20	6.07	
m,p-Xylene	80-121	200	0	9697	8000	121		8974	8000	112		20	7.74	
Methylene chloride	74-124	200	0	3658	4000	92		3557	4000	89		20	2.8	
Naphthalene	61-128	200	0	4481	4000	112		4103	4000	103		20	8.8	
n-Butylbenzene	75-128	200	0	5075	4000	127		4555	4000	114		20	10.8	
n-Propylbenzene	76-126	200	0	4977	4000	124		4459	4000	111		20	11	
o-Xylene	78-122	200	0	4609	4000	115		4296	4000	107		20	7.03	
sec-Butylbenzene	77-126	200	0	5058	4000	126		4560	4000	114		20	10.4	
Styrene	78-123	200	0	4650	4000	116		4324	4000	108		20	7.27	
tert-Butylbenzene	78-124	200	0	5049	4000	126		4537	4000	113		20	10.7	
Tetrachloroethene	74-129	200	0	4931	4000	123		4617	4000	115		20	6.57	
Toluene	80-121	200	0	4616	4000	115		4273	4000	107		20	7.73	
trans-1,2-Dichloroethene	75-124	200	0	3922	4000	98		3854	4000	96		20	1.74	
trans-1,3-Dichloropropene	73-127	200	0	3958	4000	99		3839	4000	96		20	3.05	
Trichloroethene	79-123	200	9392	13470	4000	102		12870	4000	87		20	4.54	
Trichlorofluoromethane	65-141	200	0	4313	4000	108		4101	4000	103		20	5.04	
Vinyl chloride	58-137	200	0	3797	4000	95		3583	4000	90		20	5.8	

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 Site18/24

Workorder **HS23061712**

RunID VOA6-440138

Volatiles by EPA 8260

BatchQC (HS23061821-02)				HS23061821-02MS				HS23061821-02MSD						
Sample Matrix: Aqueous			Run Date	06/28/23				06/28/23						
Result Units: ug/L			Run Time	15:06				15:27						
			Data File	X062811.D				X062812.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	1	0	19.59	20	98		18.99	20	95		20	3.11	
1,1,1-Trichloroethane	74-131	1	0	17.36	20	87		16.58	20	83		20	4.57	
1,1,2,2-Tetrachloroethane	71-121	1	0	18.31	20	92		16.86	20	84		20	8.26	
1,1,2-Trichloroethane	80-119	1	0	18.53	20	93		18.2	20	91		20	1.81	
1,1-Dichloroethane	77-125	1	0.9801	17.08	20	80		16.14	20	76		20	5.62	
1,1-Dichloroethene	71-131	1	0	18.33	20	92		16.87	20	84		20	8.26	
1,1-Dichloropropene	78-125	1	0	19.39	20	97		18.26	20	91		20	6.02	
1,2,3-Trichlorobenzene	69-129	1	0	20.81	20	104		19.7	20	98		20	5.48	
1,2,3-Trichloropropane	73-122	1	0	18.88	20	94		16.99	20	85		20	10.5	
1,2,4-Trichlorobenzene	69-130	1	0	20.66	20	103		19.99	20	100		20	3.3	
1,2,4-Trimethylbenzene	76-124	1	0	21.36	20	107		19.88	20	99		20	7.17	
1,2-Dibromo-3-chloropropane	62-128	1	0	19.06	20	95		18.25	20	91		20	4.38	
1,2-Dibromoethane	77-121	1	0	18.55	20	93		17.96	20	90		20	3.27	
1,2-Dichlorobenzene	80-119	1	0	20.92	20	105		19.52	20	98		20	6.93	
1,2-Dichloroethane	73-128	1	1.487	19.02	20	88		18.33	20	84		20	3.7	
1,2-Dichloropropane	78-122	1	0	17.77	20	89		17.45	20	87		20	1.85	
1,3,5-Trimethylbenzene	75-124	1	0	21.83	20	109		20.14	20	101		20	8.07	
1,3-Dichlorobenzene	80-119	1	0	21.34	20	107		20.16	20	101		20	5.71	
1,3-Dichloropropane	80-119	1	0	18.75	20	94		18	20	90		20	4.05	
1,4-Dichlorobenzene	79-118	1	0	20.86	20	104		19.84	20	99		20	5.04	
2,2-Dichloropropane	60-139	1	0	18.1	20	90		16.88	20	84		20	6.93	
2-Butanone	56-143	1	0	28.82	40	72		25.05	40	63		20	14	
2-Chlorotoluene	79-122	1	0	20.89	20	104		19.27	20	96		20	8.1	
2-Hexanone	57-139	1	0	33.56	40	84		32.82	40	82		20	2.23	
4-Chlorotoluene	78-122	1	0	21.37	20	107		19.57	20	98		20	8.79	
4-Isopropyltoluene	77-127	1	0	22.67	20	113		21.08	20	105		20	7.28	
4-Methyl-2-pentanone	67-130	1	0	34.18	40	85		33.63	40	84		20	1.6	
Acetone	39-160	1	0	25.54	40	64		25.52	40	64		20	0.104	
Benzene	79-120	1	0	18.77	20	94		18.02	20	90		20	4.06	
Bromobenzene	80-120	1	0	21.2	20	106		19.93	20	100		20	6.16	
Bromochloromethane	78-123	1	0	16.98	20	85		16.66	20	83		20	1.92	
Bromodichloromethane	79-125	1	0	17.26	20	86		16.74	20	84		20	3.04	
Bromoform	66-130	1	0	18.74	20	94		18.4	20	92		20	1.84	
Bromomethane	53-141	1	0	14.02	20	70		15.43	20	77		20	9.58	

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 Site18/24

Workorder **HS23061712**

RunID VOA6-440138

Volatiles by EPA 8260

BatchQC (HS23061821-02)				HS23061821-02MS				HS23061821-02MSD						
Sample Matrix: Aqueous			Run Date	06/28/23				06/28/23						
Result Units: ug/L			Run Time	15:06				15:27						
			Data File	X062811.D				X062812.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Carbon disulfide	64-133	1	0	31.55	40	79		29.16	40	73		20	7.87	
Carbon tetrachloride	72-136	1	0	20	20	100		19.17	20	96		20	4.22	
Chlorobenzene	82-118	1	0	20.29	20	101		19.63	20	98		20	3.31	
Chloroethane	60-138	1	0	18.62	20	93		19.98	20	100		20	7	
Chloroform	79-124	1	0	16.01	20	80		15.33	20	77		20	4.35	
Chloromethane	50-139	1	0	20.94	20	105		17.91	20	90		20	15.6	
cis-1,2-Dichloroethene	78-123	1	4.836	23.06	20	91		21.45	20	83		20	7.25	
cis-1,3-Dichloropropene	75-124	1	0	17.91	20	90		17.43	20	87		20	2.71	
Dibromochloromethane	74-126	1	0	19.11	20	96		18.73	20	94		20	2.01	
Dibromomethane	79-123	1	0	17.62	20	88		17.71	20	88		20	0.491	
Dichlorodifluoromethane	32-152	1	0	16.44	20	82		15.38	20	77		20	6.66	
Ethylbenzene	79-121	1	0	20.8	20	104		19.79	20	99		20	4.97	
Hexachlorobutadiene	66-134	1	0	23.3	20	117		21.46	20	107		20	8.23	
Isopropylbenzene	72-131	1	0	21.44	20	107		20.52	20	103		20	4.42	
m,p-Xylene	80-121	1	0	43.17	40	108		40.87	40	102		20	5.48	
Methylene chloride	74-124	1	0	19.05	20	95		16.79	20	84		20	12.6	
Naphthalene	61-128	1	0	19.55	20	98		18.59	20	93		20	5.04	
n-Butylbenzene	75-128	1	0	22.7	20	113		21.21	20	106		20	6.78	
n-Propylbenzene	76-126	1	0	22.09	20	110		20.45	20	102		20	7.74	
o-Xylene	78-122	1	0	20.41	20	102		19.87	20	99		20	2.67	
sec-Butylbenzene	77-126	1	0	22.62	20	113		21.05	20	105		20	7.19	
Styrene	78-123	1	0	20.52	20	103		20.09	20	100		20	2.09	
tert-Butylbenzene	78-124	1	0	22.83	20	114		21.02	20	105		20	8.28	
Tetrachloroethene	74-129	1	0	22.99	20	115		21.55	20	108		20	6.46	
Toluene	80-121	1	0	20.63	20	103		19.72	20	99		20	4.52	
trans-1,2-Dichloroethene	75-124	1	0	17.47	20	87		16.71	20	84		20	4.4	
trans-1,3-Dichloropropene	73-127	1	0	17.7	20	88		17.26	20	86		20	2.53	
Trichloroethene	79-123	1	3.924	24.12	20	101		23.21	20	96		20	3.85	
Trichlorofluoromethane	65-141	1	0	18.58	20	93		16.82	20	84		20	9.98	
Vinyl chloride	58-137	1	0	17.63	20	88		16.29	20	81		20	7.88	

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 Site18/24

Workorder **HS23061712**

RunID VOA9-440247

Volatiles by EPA 8260

BatchQC (HS23061825-03)				HS23061825-03MS				HS23061825-03MSD						
Sample Matrix: Aqueous			Run Date	06/29/23				06/29/23						
Result Units: ug/L			Run Time	15:10				15:33						
			Data File	U062913.D				U062914.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
cis-1,2-Dichloroethene	78-123	50	0	994	1000	99		966.5	1000	97		20	2.81	
Methylene chloride	74-124	50	0	994.4	1000	99		1005	1000	101		20	1.09	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

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Form 3B

Laboratory Control Sample Recovery

Volatiles by EPA 8260

Workorder

HS23061712

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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 Site18/24

Workorder
HS23061712

SAMPLENUM
VLCSW-230626

Volatiles by EPA 8260

VOA6_439909			VLCSW-230626		
Spike Matrix	Aqueous	**Run Date**	06/26/23		
Result Units	ug/L	**Run Time**	13:57		
		Data File	X062605.D		

Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q
1,1,1,2-Tetrachloroethane	78-124	20	19.93	100	
1,1,1-Trichloroethane	74-131	20	19.4	97	
1,1,2,2-Tetrachloroethane	71-121	20	18.21	91	
1,1,2-Trichloroethane	80-119	20	19.8	99	
1,1-Dichloroethane	77-125	20	19.05	95	
1,1-Dichloroethene	71-131	20	19.53	98	
1,1-Dichloropropene	78-125	20	20.11	101	
1,2,3-Trichlorobenzene	69-129	20	20.47	102	
1,2,3-Trichloropropane	73-122	20	18.95	95	
1,2,4-Trichlorobenzene	69-130	20	20.72	104	
1,2,4-Trimethylbenzene	76-124	20	20.3	101	
1,2-Dibromo-3-chloropropane	62-128	20	19.83	99	
1,2-Dibromoethane	77-121	20	20.19	101	
1,2-Dichlorobenzene	80-119	20	20.37	102	
1,2-Dichloroethane	73-128	20	20.46	102	
1,2-Dichloropropane	78-122	20	20.12	101	
1,3,5-Trimethylbenzene	75-124	20	20.08	100	
1,3-Dichlorobenzene	80-119	20	20.13	101	
1,3-Dichloropropane	80-119	20	19.76	99	
1,4-Dichlorobenzene	79-118	20	19.68	98	
2,2-Dichloropropane	60-139	20	20.81	104	
2-Butanone	56-143	40	36.07	90	
2-Chlorotoluene	79-122	20	19.56	98	
2-Hexanone	57-139	40	39.18	98	
4-Chlorotoluene	78-122	20	20.58	103	
4-Isopropyltoluene	77-127	20	20.31	102	
4-Methyl-2-pentanone	67-130	40	37.9	95	
Acetone	39-160	40	40.71	102	
Benzene	79-120	20	19.87	99	
Bromobenzene	80-120	20	20.5	103	
Bromochloromethane	78-123	20	19.29	96	
Bromodichloromethane	79-125	20	19.6	98	
Bromoform	66-130	20	20.23	101	
Bromomethane	53-141	20	20.93	105	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061712

SAMPLENUM
VLCSW-230626

Volatiles by EPA 8260

VOA6_439909			VLCSW-230626			
Spike Matrix Aqueous		**Run Date**	06/26/23			
Result Units ug/L		**Run Time**	13:57			
		Data File	X062605.D			
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	
Carbon disulfide	64-133	40	37.11	93		
Carbon tetrachloride	72-136	20	20.39	102		
Chlorobenzene	82-118	20	20.39	102		
Chloroethane	60-138	20	20.11	101		
Chloroform	79-124	20	18.87	94		
Chloromethane	50-139	20	20.56	103		
cis-1,2-Dichloroethene	78-123	20	19.3	96		
cis-1,3-Dichloropropene	75-124	20	20	100		
Dibromochloromethane	74-126	20	20.19	101		
Dibromomethane	79-123	20	20.37	102		
Dichlorodifluoromethane	32-152	20	18.13	91		
Ethylbenzene	79-121	20	20.24	101		
Hexachlorobutadiene	66-134	20	20.65	103		
Isopropylbenzene	72-131	20	20.21	101		
m,p-Xylene	80-121	40	42.18	105		
Methylene chloride	74-124	20	18.12	91		
Naphthalene	61-128	20	19.86	99		
n-Butylbenzene	75-128	20	20.57	103		
n-Propylbenzene	76-126	20	20.15	101		
o-Xylene	78-122	20	20.55	103		
sec-Butylbenzene	77-126	20	19.87	99		
Styrene	78-123	20	20.77	104		
tert-Butylbenzene	78-124	20	20.19	101		
Tetrachloroethene	74-129	20	20.85	104		
Toluene	80-121	20	20.38	102		
trans-1,2-Dichloroethene	75-124	20	19.25	96		
trans-1,3-Dichloropropene	73-127	20	20.27	101		
Trichloroethene	79-123	20	20.58	103		
Trichlorofluoromethane	65-141	20	20.45	102		
Vinyl chloride	58-137	20	18.71	94		

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061712

SAMPLENUM
VLCSW-230628

Volatiles by EPA 8260

VOA6_440138			VLCSW-230628		
Spike Matrix	Aqueous	**Run Date**	06/28/23		
Result Units	ug/L	**Run Time**	12:59		
		Data File	X062805.D		

Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q
1,1,1,2-Tetrachloroethane	78-124	20	20.04	100	
1,1,1-Trichloroethane	74-131	20	17.94	90	
1,1,2,2-Tetrachloroethane	71-121	20	18.8	94	
1,1,2-Trichloroethane	80-119	20	19.79	99	
1,1-Dichloroethane	77-125	20	18.09	90	
1,1-Dichloroethene	71-131	20	18.97	95	
1,1-Dichloropropene	78-125	20	19.05	95	
1,2,3-Trichlorobenzene	69-129	20	21.81	109	
1,2,3-Trichloropropane	73-122	20	18.88	94	
1,2,4-Trichlorobenzene	69-130	20	21.42	107	
1,2,4-Trimethylbenzene	76-124	20	20.2	101	
1,2-Dibromo-3-chloropropane	62-128	20	20.61	103	
1,2-Dibromoethane	77-121	20	20.05	100	
1,2-Dichlorobenzene	80-119	20	21.01	105	
1,2-Dichloroethane	73-128	20	19.04	95	
1,2-Dichloropropane	78-122	20	19.5	98	
1,3,5-Trimethylbenzene	75-124	20	20.28	101	
1,3-Dichlorobenzene	80-119	20	21.06	105	
1,3-Dichloropropane	80-119	20	19.79	99	
1,4-Dichlorobenzene	79-118	20	20.88	104	
2,2-Dichloropropane	60-139	20	19.34	97	
2-Butanone	56-143	40	31.83	80	
2-Chlorotoluene	79-122	20	19.75	99	
2-Hexanone	57-139	40	35.47	89	
4-Chlorotoluene	78-122	20	20.31	102	
4-Isopropyltoluene	77-127	20	20.52	103	
4-Methyl-2-pentanone	67-130	40	35.65	89	
Acetone	39-160	40	32.15	80	
Benzene	79-120	20	19.73	99	
Bromobenzene	80-120	20	21.08	105	
Bromochloromethane	78-123	20	19.36	97	
Bromodichloromethane	79-125	20	18.9	94	
Bromoform	66-130	20	20.41	102	
Bromomethane	53-141	20	20.95	105	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061712

SAMPLENUM
VLCSW-230628

Volatiles by EPA 8260

VOA6_440138			VLCSW-230628			
Spike Matrix	Aqueous		**Run Date**	06/28/23		
Result Units	ug/L		**Run Time**	12:59		
			Data File	X062805.D		
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	
Carbon disulfide	64-133	40	35.45	89		
Carbon tetrachloride	72-136	20	18.78	94		
Chlorobenzene	82-118	20	21.04	105		
Chloroethane	60-138	20	19.61	98		
Chloroform	79-124	20	17.81	89		
Chloromethane	50-139	20	20.49	102		
cis-1,2-Dichloroethene	78-123	20	19.08	95		
cis-1,3-Dichloropropene	75-124	20	19.54	98		
Dibromochloromethane	74-126	20	20.19	101		
Dibromomethane	79-123	20	20.2	101		
Dichlorodifluoromethane	32-152	20	19.37	97		
Ethylbenzene	79-121	20	20.73	104		
Hexachlorobutadiene	66-134	20	21.71	109		
Isopropylbenzene	72-131	20	20.63	103		
m,p-Xylene	80-121	40	43.21	108		
Methylene chloride	74-124	20	18.84	94		
Naphthalene	61-128	20	20.67	103		
n-Butylbenzene	75-128	20	20.7	104		
n-Propylbenzene	76-126	20	20.17	101		
o-Xylene	78-122	20	20.9	105		
sec-Butylbenzene	77-126	20	20.12	101		
Styrene	78-123	20	21.55	108		
tert-Butylbenzene	78-124	20	20.47	102		
Tetrachloroethene	74-129	20	20.98	105		
Toluene	80-121	20	20.66	103		
trans-1,2-Dichloroethene	75-124	20	19	95		
trans-1,3-Dichloropropene	73-127	20	19.35	97		
Trichloroethene	79-123	20	20.82	104		
Trichlorofluoromethane	65-141	20	18.85	94		
Vinyl chloride	58-137	20	18.92	95		

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061712

SAMPLENUM
VLCSW-230629

Volatiles by EPA 8260

VOA9_440247			VLCSW-230629			
Spike Matrix Aqueous		**Run Date**	06/29/23			
Result Units ug/L		**Run Time**	11:54			
		Data File	U062905.D			
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	
cis-1,2-Dichloroethene	78-123	20	21.04	105		
Methylene chloride	74-124	20	22.25	111		

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

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Form 4

Method Blank Summary

Volatiles by EPA 8260

Workorder

HS23061712

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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 Site18/24

Workorder
HS23061712

Volatiles by EPA 8260

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	VBLKW-230626	X062607.D	06/26/23 14:39	VOA6_439909
VLCSW-230626	LCS	VLCSW-230626	X062605.D	06/26/23 13:57	VOA6_439909
18CPTMW10DW_062223	SAMP	HS23061712-03	X062609.D	06/26/23 15:21	VOA6_439909
18CPTMW10DW_062223_a	SAMP	HS23061712-04	X062610.D	06/26/23 15:42	VOA6_439909
BatchQC	MS	HS23061707-01MS	X062611.D	06/26/23 16:04	VOA6_439909
BatchQC	MSD	HS23061707-01MSD	X062612.D	06/26/23 16:25	VOA6_439909
Trip Blank	SAMP	HS23061712-09	X062615.D	06/26/23 17:28	VOA6_439909
18CPTMW01DW_062323	SAMP	HS23061712-06	X062624.D	06/26/23 20:37	VOA6_439909
1824DPTMW05_062223	SAMP	HS23061712-01	X062625.D	06/26/23 20:58	VOA6_439909
MW1_062323	SAMP	HS23061712-08	X062626.D	06/26/23 21:19	VOA6_439909
MW1_062323	SAMP	HS23061712-08	X062627.D	06/26/23 21:40	VOA6_439909
MW2_062323	SAMP	HS23061712-07	X062628.D	06/26/23 22:01	VOA6_439909
MW2_062323	SAMP	HS23061712-07	X062629.D	06/26/23 22:22	VOA6_439909
MW1_062323	MS	HS23061712-08MS	X062630.D	06/26/23 22:44	VOA6_439909
MW1_062323	MSD	HS23061712-08MSD	X062631.D	06/26/23 23:05	VOA6_439909

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061712

Volatiles by EPA 8260

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	VBLKW-230628	X062807.D	06/28/23 13:41	VOA6_440138
VLCSW-230628	LCS	VLCSW-230628	X062805.D	06/28/23 12:59	VOA6_440138
18CPTMW10SW_062223	SAMP	HS23061712-02	X062809.D	06/28/23 14:23	VOA6_440138
18CPTMW01SW_062223	SAMP	HS23061712-05	X062810.D	06/28/23 14:44	VOA6_440138
BatchQC	MS	HS23061821-02MS	X062811.D	06/28/23 15:06	VOA6_440138
BatchQC	MSD	HS23061821-02MSD	X062812.D	06/28/23 15:27	VOA6_440138
1824DPTMW05_062223	SAMP	HS23061712-01	X062813.D	06/28/23 15:48	VOA6_440138

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061712

Volatiles by EPA 8260

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	VBLKW-230629	U062907.D	06/29/23 12:39	VOA9_440247
VLCSW-230629	LCS	VLCSW-230629	U062905.D	06/29/23 11:54	VOA9_440247
BatchQC	MS	HS23061825-03MS	U062913.D	06/29/23 15:10	VOA9_440247
BatchQC	MSD	HS23061825-03MSD	U062914.D	06/29/23 15:33	VOA9_440247
18CPTMW01SW_062223	SAMP	HS23061712-05	U062916.D	06/29/23 16:18	VOA9_440247

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Form 5

Instrument Performance Check

Volatiles by EPA 8260

Workorder

HS23061712

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061712

RunID
VOA6-438076

Volatiles by EPA 8260

Tune File X061501.D 06/15/23 6/15/2023

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	18.6 (18.6)
75	30.0 - 60.0% of mass 95	48.4 (48.4)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	7.1 (7.1)
173	Less than 2.0% of mass 174	0.6 (0.74) 1
174	50.0 - 120.0% of mass 95	78.8 (78.8)
175	4.0 - 9.0% of mass 174	6.3 (8.04) 1
176	93.0 - 101.0% of mass 174	78 (99.1) 1
177	5.0 - 9.0% of mass 176	5.8 (7.46) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	VSTD000.25	ICAL1	6/15/2023	X061502	VSTD000.25
2	VSTD000.5	ICAL2	6/15/2023	X061503	VSTD000.5
3	VSTD001	ICAL3	6/15/2023	X061504	VSTD001
4	VSTD002	ICAL4	6/15/2023	X061505	VSTD002
5	VSTD005	ICAL5	6/15/2023	X061506	VSTD005
6	VSTD020	ICAL6	6/15/2023	X061507	VSTD020
7	VSTD050	ICAL7	6/15/2023	X061508	VSTD050
8	VSTD100	ICAL8	6/15/2023	X061509	VSTD100
9	VSTD150	ICAL9	6/15/2023	X061510	VSTD150
10	VSTD200	ICAL	6/15/2023	X061511	VSTD200
11	CCV	ICV	6/15/2023	X061514	CCV

Form 5 - Instrument Performance Check

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site18/24	**HS23061712**	

Volatiles by EPA 8260

RunID: VOA6-438076

Tune File	X061501.D	06/15/23 6/15/2023	This check applies to the following analyses

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061712

RunID
VOA6-439909

Volatiles by EPA 8260

Tune File X062601.D 06/26/23 6/26/2023

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	16.5 (16.5)
75	30.0 - 60.0% of mass 95	45.8 (45.8)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.7 (6.66)
173	Less than 2.0% of mass 174	1.1 (1.17) 1
174	50.0 - 120.0% of mass 95	90.5 (90.5)
175	4.0 - 9.0% of mass 174	5.5 (6.03) 1
176	93.0 - 101.0% of mass 174	89.5 (99) 1
177	5.0 - 9.0% of mass 176	5.9 (6.62) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	CCV	CCV	6/26/2023	X062603	CCV
2	CCB	CCB	6/26/2023	X062604	CCB
3	VLCSW-	LCS	6/26/2023	X062605	VLCSW-230626
4	VBLKW-	MBLK	6/26/2023	X062607	VBLKW-230626
5	HS23061712-	SAMP	6/26/2023	X062609	18CPTMW10DW_062223
6	HS23061712-	SAMP	6/26/2023	X062610	18CPTMW10DW_062223_a
7	HS23061707-	MS	6/26/2023	X062611	ZZZZZZMS
8	HS23061707-	MSD	6/26/2023	X062612	ZZZZZZMSD
9	HS23061712-	SAMP	6/26/2023	X062615	Trip Blank
10	HS23061712-	SAMP	6/26/2023	X062624	18CPTMW01DW_062323
11	HS23061712-	SAMP	6/26/2023	X062625	1824DPTMW05_062223
12	HS23061712-	SAMP	6/26/2023	X062626	MW1_062323
13	HS23061712-	SAMP	6/26/2023	X062627	MW1_062323
14	HS23061712-	SAMP	6/26/2023	X062628	MW2_062323
15	HS23061712-	SAMP	6/26/2023	X062629	MW2_062323
16	HS23061712-	MS	6/26/2023	X062630	HS23061712-08MS
17	HS23061712-	MSD	6/26/2023	X062631	HS23061712-08MSD
18	CCV-END	CCV_EN	6/26/2023	X062632	CCV-END

Form 5 - Instrument Performance Check

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site18/24	**HS23061712**	

RunID

Volatiles by EPA 8260

VOA6-439909

Tune File	X062601.D	06/26/23 6/26/2023	**This check applies to the following analyses**

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder HS23061712

RunID VOA6-440138

Volatiles by EPA 8260

Tune File X062801.D 06/28/23 6/28/2023

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	15 (15)
75	30.0 - 60.0% of mass 95	43.4 (43.4)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.5 (6.53)
173	Less than 2.0% of mass 174	0.8 (0.787) 1
174	50.0 - 120.0% of mass 95	97.2 (97.2)
175	4.0 - 9.0% of mass 174	7.7 (7.96) 1
176	93.0 - 101.0% of mass 174	95.9 (98.7) 1
177	5.0 - 9.0% of mass 176	5.5 (5.76) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	CCV	CCV	6/28/2023	X062803	CCV
2	CCB	CCB	6/28/2023	X062804	CCB
3	VLCSW-	LCS	6/28/2023	X062805	VLCSW-230628
4	VBLKW-	MBLK	6/28/2023	X062807	VBLKW-230628
5	HS23061712-	SAMP	6/28/2023	X062809	18CPTMW10SW_062223
6	HS23061712-	SAMP	6/28/2023	X062810	18CPTMW01SW_062223
7	HS23061821-	MS	6/28/2023	X062811	ZZZZZZMS
8	HS23061821-	MSD	6/28/2023	X062812	ZZZZZZMSD
9	HS23061712-	SAMP	6/28/2023	X062813	1824DPTMW05_062223
10	CCV-END	CCV_EN	6/28/2023	X062830	CCV-END

Form 5 - Instrument Performance Check

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site18/24	**HS23061712**	

Volatiles by EPA 8260

RunID: VOA6-440138

Tune File	X062801.D	06/28/23 6/28/2023	**This check applies to the following analyses**

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061712

RunID
VOA9-437296

Volatiles by EPA 8260

Tune File U060601.D 06/06/23 6/6/2023

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	19 (19)
75	30.0 - 60.0% of mass 95	46.7 (46.7)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.9 (6.86)
173	Less than 2.0% of mass 174	0 (0) 1
174	50.0 - 120.0% of mass 95	92.1 (92.1)
175	4.0 - 9.0% of mass 174	8 (8.69) 1
176	93.0 - 101.0% of mass 174	89.4 (97) 1
177	5.0 - 9.0% of mass 176	6.1 (6.87) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	VSTD000.25	ICAL1	6/6/2023	U060602	VSTD000.25
2	VSTD000.5	ICAL2	6/6/2023	U060603	VSTD000.5
3	VSTD005	ICAL5	6/6/2023	U060606	VSTD005
4	VSTD001	ICAL3	6/6/2023	U060607	VSTD001
5	VSTD002	ICAL4	6/6/2023	U060608	VSTD002
6	VSTD020	ICAL6	6/6/2023	U060609	VSTD020
7	VSTD050	ICAL7	6/6/2023	U060610	VSTD050
8	VSTD100	ICAL8	6/6/2023	U060611	VSTD100
9	VSTD150	ICAL9	6/6/2023	U060612	VSTD150
10	VSTD200	ICAL	6/6/2023	U060613	VSTD200
11	CCV	ICV	6/6/2023	U060616	CCV

Form 5 - Instrument Performance Check

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site18/24	**HS23061712**	

RunID

Volatiles by EPA 8260

VOA9-437296

Tune File	U060601.D	06/06/23 6/6/2023	**This check applies to the following analyses**

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061712

RunID
VOA9-440247

Volatiles by EPA 8260

Tune File U062901.D 06/29/23 6/29/2023

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	19.1 (19.1)
75	30.0 - 60.0% of mass 95	48.6 (48.6)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	7.2 (7.2)
173	Less than 2.0% of mass 174	0 (0) 1
174	50.0 - 120.0% of mass 95	91.8 (91.8)
175	4.0 - 9.0% of mass 174	7.7 (8.41) 1
176	93.0 - 101.0% of mass 174	89.4 (97.3) 1
177	5.0 - 9.0% of mass 176	6.1 (6.85) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	CCV	CCV	6/29/2023	U062903	CCV
2	CCB	CCB	6/29/2023	U062904	CCB
3	VLCSW-	LCS	6/29/2023	U062905	VLCSW-230629
4	VBLKW-	MBLK	6/29/2023	U062907	VBLKW-230629
5	HS23061825-	MS	6/29/2023	U062913	ZZZZZZMS
6	HS23061825-	MSD	6/29/2023	U062914	ZZZZZZMSD
7	HS23061712-	SAMP	6/29/2023	U062916	18CPTMW01SW_062223
8	CCV-END	CCV_EN	6/29/2023	U062931	CCV-END

Form 5 - Instrument Performance Check

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site18/24	**HS23061712**	

Volatiles by EPA 8260

RunID: VOA9-440247

Tune File	U062901.D	06/29/23 6/29/2023	**This check applies to the following analyses**

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Form 6

Initial Calibration Data

Volatiles by EPA 8260

Workorder

HS23061712

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder HS23061712

Volatiles by EPA 8260

RunID VOA6_438076

Compound	50.00 Level 7 / 0.250 Level 1	100.00 Level 8 / 0.500 Level 2	150.00 Level 9 / 1.00 Level 3	200.00 Level 10 / 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Dichlorodifluoromethane	NE 197396	2615 431897	4505 640204	9827 870731	21019	86585	LINR	0.00663	0.43345		0.99964	
Chloromethane	NE 241131	3301 524590	5922 786709	11295 1090387	25651	97329	LINR	0.02054	0.53963		0.99929	
Propionitrile	NE 0.06176	0.05455 0.06051	0.06270 0.06246	0.05541 0.06236	0.06089	0.06358	AVRG		0.06047		5.37976	
Vinyl Chloride	NE 0.48769	0.60687 0.50556	0.54795 0.50115	0.57402 0.50335	0.48951	0.50986	AVRG		0.52511		7.94630	
Bromomethane	NE 0.27989	0.33537 0.29094	0.33175 0.29103	0.32542 0.28060	0.29769	0.28007	AVRG		0.30142		7.63157	
Chloroethane	NE 0.30426	0.37220 0.30884	0.33836 0.30484	0.32964 0.29773	0.31503	0.31792	AVRG		0.32098		7.20024	
Trichlorofluoromethane	NE 0.55345	0.70569 0.60431	0.65920 0.60479	0.69163 0.60887	0.58830	0.59980	AVRG		0.62401		8.07463	
Acrolein	NE 0.02794	0.03568 0.03158	0.02823 0.03279	0.02994 0.03252	0.03064	0.02991	AVRG		0.03103		7.82710	
Acetone	NE 120180	2789 254517	4663 376478	7818 532376	16276	54363	LINR	-0.00544	0.13002		0.99878	
1,1-Dichloroethene	NE 0.35517	0.45895 0.36783	0.44657 0.36468	0.41881 0.36713	0.37605	0.36786	AVRG		0.39145		10.02453	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder HS23061712

RunID VOA6_438076

Volatiles by EPA 8260

ICAL Summary Page 2 / 12

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Isobutyl Alcohol	NE 0.06440	0.05685 0.06398	0.06692 0.06447	0.06596 0.06514	0.07003	0.06902	AVRG		0.06519		5.78524	
Acetonitrile	NE 0.04861	0.04721 0.04885	0.04408 0.05012	0.05000 0.04863	0.05074	0.04825	AVRG		0.04850		4.07759	
Allyl Chloride	NE 1.08770	1.16902 1.08886	1.04930 1.11033	1.07830 1.08781	1.11392	1.08331	AVRG		1.09651		3.00701	
Iodomethane	NE 622671	2984 1361652	6227 1987305	14998 2762966	43988	223261	QUAD	0.04643	1.52252	-0.01414	0.99955	
Acrylonitrile	NE 0.15374	0.16498 0.15959	0.14851 0.16440	0.15637 0.16394	0.15489	0.16196	AVRG		0.15871		3.58694	
Methylene Chloride	NE 0.50432	0.65930 0.49542	0.67977 0.48937	0.52763 0.48228	0.60779	0.53053	AVRG		0.55293		13.75211	
Methyl tert-butyl ether	NE 1.31513	1.51541 1.29341	1.35429 1.32919	1.47005 1.30180	1.37915	1.33784	AVRG		1.36625		5.64492	
Carbon Disulfide	NE 1.27200	1.58729 1.32682	1.49094 1.37989	1.45947 1.39563	1.31193	1.32063	AVRG		1.39384		7.29728	
trans-1,2-Dichloroethene	NE 0.43392	0.54737 0.44333	0.51101 0.44594	0.49568 0.44153	0.44892	0.44795	AVRG		0.46841		8.48506	
Vinyl Acetate	NE 1.30590	1.14998 1.23968	1.31997 1.24313	1.13084 1.19252	1.30406	1.36566	AVRG		1.25019		6.44761	
1,1-Dichloroethane	NE 0.79188	0.96555 0.80903	0.89576 0.79801	0.89979 0.79485	0.81735	0.82215	AVRG		0.84382		7.28399	
Chloroprene	NE 0.14920	0.19494 0.16266	0.15806 0.15820	0.19402 0.16101	0.16299	0.15462	AVRG		0.16619		9.98603	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder HS23061712

RunID VOA6_438076

Volatiles by EPA 8260

ICAL Summary Page 3 / 12

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
2-Butanone	NE 0.16847	0.15780 0.17739	0.15585 0.17973	0.16329 0.18455	0.13672	0.15713	AVRG		0.16455		9.02144	
Methacrylonitrile	NE 0.41001	0.45084 0.39816	0.47260 0.40753	0.34475 0.40591	0.41093	0.41229	AVRG		0.41256		8.55015	
2,2-Dichloropropane	NE 313511	4078 661036	7438 998442	15188 1330788	33630	134641	LINR	-0.00010	0.66582		0.99984	
cis-1,2-Dichloroethene	NE 0.51032	0.63371 0.51263	0.59203 0.51321	0.54477 0.51241	0.52201	0.52031	AVRG		0.54016		8.10440	
Chloroform	NE 0.83554	1.06707 0.82576	1.04857 0.82364	1.00209 0.81356	0.89839	0.85930	AVRG		0.90821		11.31143	
Bromochloromethane	NE 0.26932	0.31540 0.26813	0.32241 0.27038	0.31702 0.26796	0.28759	0.27231	AVRG		0.28784		8.22049	
1,1,1-Trichloroethane	NE 0.65869	0.86069 0.69751	0.78052 0.70708	0.80161 0.71389	0.68231	0.70420	AVRG		0.73406		8.94326	
1,1-Dichloropropene	NE 0.38290	0.48495 0.40900	0.39369 0.41695	0.45740 0.41345	0.41202	0.40033	AVRG		0.41897		7.68787	
1,2-Dichloroethane	NE 0.40659	0.50041 0.40754	0.44494 0.41027	0.39189 0.38937	0.41620	0.41114	AVRG		0.41982		8.13871	
Carbon Tetrachloride	NE 0.35611	0.48305 0.38889	0.40420 0.39879	0.43692 0.39810	0.38136	0.37897	AVRG		0.40293		9.22126	
Benzene	NE 1.21772	1.43274 1.25333	1.39866 1.25530	1.32317 1.24146	1.21650	1.23632	AVRG		1.28613		6.24204	
Trichloroethene	NE 0.32967	0.38877 0.34715	0.35052 0.35260	0.38059 0.35386	0.34683	0.34151	AVRG		0.35461		5.25026	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder HS23061712

RunID VOA6_438076

Volatiles by EPA 8260

ICAL Summary Page 4 / 12

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Bromodichloromethane	NE 0.42719	0.51371 0.43289	0.53585 0.43326	0.45737 0.42742	0.43564	0.43124	AVRG		0.45495		9.00412	
Methyl Methacrylate	NE 0.38805	0.41027 0.38979	0.40060 0.39545	0.33936 0.39592	0.36954	0.39466	AVRG		0.38707		5.41914	
2-Chloroethylvinyl ether	NE 0.12791	0.10601 0.12501	0.12371 0.12617	0.12156 0.12420	0.12156	0.13185	AVRG		0.12311		5.82358	
1,2-Dichloropropane	NE 0.32863	0.37996 0.33248	0.33362 0.32951	0.33899 0.32343	0.33720	0.33445	AVRG		0.33759		4.90636	
2-Nitropropane	NE 0.13379	0.15541 0.13164	0.12048 0.13757	0.12260 0.13758	0.13928	0.13451	AVRG		0.13476		7.53641	
Dibromomethane	NE 0.20336	0.21555 0.20193	0.23900 0.20257	0.22439 0.19834	0.21012	0.21202	AVRG		0.21192		6.13059	
4-Methyl-2-Pentanone	NE 0.32212	0.30760 0.31184	0.33367 0.30831	0.33070 0.31407	0.33715	0.34142	AVRG		0.32299		4.05223	
cis-1,3-Dichloropropene	NE 0.54967	0.61626 0.56034	0.56522 0.56241	0.54409 0.55560	0.54909	0.54586	AVRG		0.56095		3.93014	
Ethyl Methacrylate	NE 0.31215	0.36463 0.31567	0.39888 0.34496	0.38425 0.35543	0.38260	0.36686	AVRG		0.35838		8.34634	
Toluene	NE 1.40762	1.68448 1.42956	1.50279 1.42094	1.56276 1.40372	1.38239	1.41654	AVRG		1.46787		6.74844	
trans-1,3-Dichloropropene	NE 0.46653	0.47369 0.46660	0.51235 0.47587	0.44699 0.47465	0.44101	0.46631	AVRG		0.46933		4.30530	
2-Hexanone	NE 0.21970	0.17351 0.21503	0.21078 0.21508	0.22169 0.22116	0.22767	0.23709	AVRG		0.21575		8.17380	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder HS23061712

RunID VOA6_438076

Volatiles by EPA 8260

ICAL Summary Page 5 / 12

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
1,1,2-Trichloroethane	NE 0.27350	0.32535 0.26982	0.29705 0.26865	0.30791 0.26434	0.28978	0.27731	AVRG		0.28597		7.23925	
1,3-Dichloropropane	NE 0.56370	0.64851 0.55661	0.60816 0.54916	0.57702 0.54626	0.57725	0.57717	AVRG		0.57821		5.59903	
Dibromochloromethane	NE 0.39440	0.45130 0.39633	0.42505 0.39869	0.41073 0.39759	0.37918	0.39427	AVRG		0.40528		5.26412	
Tetrachloroethene	NE 0.26936	0.33320 0.29091	0.30082 0.30122	0.33399 0.30164	0.29936	0.28615	AVRG		0.30185		6.87487	
1,2-Dibromoethane	NE 0.34611	0.42541 0.34375	0.40286 0.34624	0.36309 0.34502	0.36325	0.35394	AVRG		0.36552		7.95769	
1-Chlorohexane	NE 0.27058	0.31891 0.29451	0.30742 0.30497	0.33602 0.30108	0.30509	0.29798	AVRG		0.30406		5.82966	
Chlorobenzene	NE 0.95733	1.16599 0.96191	1.05258 0.96797	1.02315 0.96078	0.98663	0.96310	AVRG		1.00438		6.86694	
1,1,1,2-Tetrachloroethane	NE 0.35354	0.41610 0.36178	0.40706 0.36400	0.38381 0.36679	0.36058	0.35698	AVRG		0.37452		6.08083	
Ethylbenzene	NE 0.48268	0.58074 0.49951	0.54181 0.51159	0.54627 0.50660	0.49714	0.49091	AVRG		0.51747		6.19763	
m,p-Xylenes	NE 0.61776	0.69775 0.63064	0.60842 0.64151	0.65267 0.63784	0.63943	0.61731	AVRG		0.63815		4.13336	
o-Xylene	NE 0.60231	0.68793 0.61488	0.67177 0.61904	0.68201 0.62117	0.62191	0.60992	AVRG		0.63677		5.28356	
Styrene	NE 1.03828	1.11203 1.04302	1.06411 1.05857	1.03374 1.05409	1.01012	1.02585	AVRG		1.04887		2.76930	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder HS23061712

RunID VOA6_438076

Volatiles by EPA 8260

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Bromoform	NE 0.27612	0.32157 0.27809	0.28167 0.28435	0.27167 0.28854	0.26654	0.27431	AVRG		0.28254		5.68771	
Isopropylbenzene	NE 1.45822	1.81086 1.52966	1.55188 1.58026	1.65791 1.57911	1.51756	1.47991	AVRG		1.57393		6.78027	
1,1,2,2-Tetrachloroethane	NE 0.80734	1.01343 0.78646	1.04169 0.78147	0.92927 0.78458	0.90463	0.86384	AVRG		0.87919		11.37969	
1,2,3-Trichloropropane	NE 0.58363	0.71376 0.57749	0.64247 0.56939	0.67579 0.57068	0.64682	0.69393	AVRG		0.63044		8.99664	
trans-1,4-Dichloro-2-butene	NE 0.12201	0.12188 0.12421	0.12097 0.12746	0.10883 0.12711	0.11805	0.12477	AVRG		0.12170		4.66453	
n-Propylbenzene	NE 3.06771	3.81139 3.17546	3.04596 3.24067	3.59078 3.23495	3.20535	3.24000	AVRG		3.29025		7.59470	
Bromobenzene	NE 0.76742	0.93832 0.77052	0.84056 0.78062	0.86168 0.78584	0.80430	0.78514	AVRG		0.81493		6.90326	
1,3,5-Trimethylbenzene	NE 2.24247	2.81070 2.33416	2.39182 2.36164	2.56909 2.35482	2.31883	2.34509	AVRG		2.41429		7.14055	
2-Chlorotoluene	NE 1.91381	2.37538 1.91814	2.31498 1.92712	2.30029 1.92088	2.10665	2.02743	AVRG		2.08941		9.20889	
4-Chlorotoluene	NE 2.20862	2.65754 2.23079	2.26290 2.24646	2.51579 2.24423	2.31216	2.29693	AVRG		2.33060		6.55345	
tert-Butylbenzene	NE 1.82457	2.31433 1.93069	1.96015 1.96746	2.20052 1.98619	1.96704	1.95151	AVRG		2.01139		7.45137	
1,2,4-Trimethylbenzene	NE 2.29724	2.82875 2.35208	2.45476 2.38166	2.51264 2.36035	2.34854	2.38641	AVRG		2.43582		6.58075	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

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Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
sec-Butylbenzene	NE 2.53422	3.32113 2.75963	2.78825 2.84355	3.00060 2.83927	2.74806	2.69627	AVRG		2.83678		7.77278	
p-Isopropyltoluene	NE 2.28631	2.76903 2.49189	2.31617 2.52839	2.63680 2.50601	2.40779	2.41022	AVRG		2.48362		6.13282	
1,3-Dichlorobenzene	NE 1.37542	1.65871 1.42022	1.45865 1.43696	1.47401 1.43277	1.39591	1.40674	AVRG		1.45104		5.76143	
1,4-Dichlorobenzene	NE 1.45636	1.76382 1.48340	1.68376 1.47244	1.67915 1.46629	1.47899	1.49407	AVRG		1.55314		7.70609	
Benzyl Chloride	NE 0.83370	0.91627 0.87954	0.80528 0.91703	0.71741 0.90236	0.66903	0.79217	AVRG		0.82587		10.76194	
n-Butylbenzene	NE 2.03494	2.22356 2.21681	1.73994 2.25668	2.12823 2.23717	2.08088	2.11969	AVRG		2.11532		7.57840	
1,2-Dichlorobenzene	NE 1.38424	1.64703 1.40787	1.40433 1.40761	1.51430 1.38773	1.39669	1.40798	AVRG		1.43975		6.03897	
1,2-Dibromo-3-Chloropropane	NE 57289	562 117282	1184 182534	2351 252682	5689	22086	LINR	0.00523	0.14424		0.99979	
1,2,4-Trichlorobenzene	NE 1.00852	1.03201 1.05151	0.95053 1.05450	0.92843 1.05037	0.93678	1.00122	AVRG		1.00154		5.09180	
Hexachlorobutadiene	NE 0.40176	0.45496 0.46265	0.43499 0.48062	0.47567 0.48593	0.43999	0.40952	AVRG		0.44956		6.74761	
Naphthalene	NE 2.30432	2.52164 2.32026	1.98002 2.30178	2.06297 2.29116	2.15195	2.35762	AVRG		2.25463		7.26973	
1,2,3-Trichlorobenzene	NE 0.91409	1.00600 0.94320	0.82982 0.94850	0.91549 0.93747	0.87650	0.92316	AVRG		0.92158		5.30458	

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Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Ethyl Acetate	NE 0.48954	0.55715 0.45908	0.55803 0.45507	0.54813 0.45523	0.52955	0.53528	AVRG		0.50967		8.78368	
Methyl Acrylate	NE 0.42996	0.40444 0.42077	0.36366 0.43604	0.41022 0.42149	0.34054	0.41749	AVRG		0.40496		7.88415	
n-Butanol	NE 116028	934 246332	2023 401679	3179 566916	8163	42441	LINR	1.30216	0.01397		0.99668	
Ethyl Acrylate	NE 533003	4696 1125305	8042 1751972	14275 2344010	39998	144388	LINR	0.04728	1.18250		0.99891	
Cyclohexanone	NE 225144	2832 470281	5123 717000	11759 970775	24566	91911	LINR	-0.25984	0.02790		0.99996	
1,4-Dioxane	0.00564 0.00573	0.00561 0.00606	0.00675 0.00618	0.00622 0.00628	0.00612	0.00602	AVRG		0.00606		5.64821	
n-Hexane	NE 208750	2120 496122	4190 791040	10696 NE	23971	95375	QUAD	-0.00494	2.32300	-0.27911	0.99904	
Freon TF	NE 158688	2188 355059	3869 548562	8361 742502	18080	69934	QUAD	0.00021	2.93242	-0.16774	0.99957	
Methyl Acetate	NE 0.30048	0.31498 0.29215	0.31317 0.29784	0.26234 0.29548	0.27837	0.30868	AVRG		0.29595		5.72758	
Methylcyclohexane	NE 0.70648	0.63728 0.74078	0.62017 0.77029	0.69345 0.75370	0.69642	0.67070	AVRG		0.69881		7.28568	
Isopropyl alcohol	NE 0.02587	0.03027 0.02632	0.03392 0.02742	0.02884 0.02799	0.02722	0.02723	AVRG		0.02834		8.70660	
Amyl alcohol	NE 0.00950	0.00862 0.00970	0.00888 0.01042	0.00895 0.01061	0.00779	0.00937	AVRG		0.00932		9.45742	

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Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Allyl alcohol	NE 208750	2756 496122	4190 791040	11222 NE	23971	95375	QUAD	-0.12571	46.53375	-5.61944	0.99904	
4-Methyl-2-pentanol	NE 0.06843	0.08471 0.06853	0.09038 0.07488	0.09393 0.07669	0.08353	0.07453	AVRG		0.07951		11.48326	
Tert-butyl alcohol	NE 0.04721	0.05620 0.04618	0.06105 0.04794	0.05158 0.04957	0.05225	0.05012	AVRG		0.05134		9.20429	
Diethyl ether	NE 0.30172	0.33100 0.30182	0.32986 0.30795	0.32506 0.29912	0.31304	0.30966	AVRG		0.31325		3.96667	
1,3-Butadiene	NE 0.38320	0.46769 0.40906	0.43786 0.40982	0.43128 0.40837	0.37829	0.40359	AVRG		0.41435		6.69422	
Cyclohexane	NE 0.55762	0.71131 0.62652	0.61554 0.64990	0.70135 0.66862	0.60145	0.60394	AVRG		0.63736		7.85586	
Tetrahydrofuran	NE 0.07355	0.07531 0.07188	0.07084 0.07229	0.07374 0.07204	0.06939	0.07678	AVRG		0.07287		3.09331	
alpha-Methylstyrene	NE 1.14972	1.32267 1.18100	1.09879 1.20081	1.15655 1.20136	1.15284	1.18162	AVRG		1.18282		5.17506	
Diisopropyl ether	NE 1.44796	1.70619 1.43897	1.46103 1.45103	1.46501 1.40305	1.45974	1.43875	AVRG		1.47464		6.02123	
Dichlorofluoromethane	NE 0.67939	0.84072 0.69933	0.68197 0.70668	0.80782 0.68931	0.69537	0.66668	AVRG		0.71858		8.57276	
Propylene oxide	NE 0.03660	NE 0.03513	0.05463 NE	0.05586 NE	0.04243	0.04133	AVRG		0.04433		20.07401	*
3-Methyl-1-butanol	NE 125842	1270 266062	2518 427718	3850 594725	10033	52635	LINR	0.70832	0.00998		0.99878	

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Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Butyl acrylate	NE 512904	1843 1042036	6899 1639896	19207 2199388	48821	203667	LINR	0.01097	0.74717		0.99973	
Butyl methacrylate	NE 0.88124	0.82471 0.81967	0.80995 0.82765	0.85924 0.78273	0.86805	0.89548	AVRG		0.84097		4.39110	
Dicyclopentadiene	NE 2.64890	3.29432 2.62708	2.78520 2.65197	2.95593 2.55993	2.95812	2.68736	AVRG		2.79653		8.37421	
1,2,3-Trimethylbenzene	NE 2.35164	2.43219 2.38718	2.33843 2.38987	2.47839 2.31737	2.37922	2.31576	AVRG		2.37667		2.25782	
Ethanol	NE 0.00428	0.00512 0.00425	0.00500 0.00428	0.00594 0.00411	0.00529	0.00474	AVRG		0.00478		12.83125	
tert-Butyl formate	NE 0.38030	0.39279 0.38170	0.45974 0.40182	0.42517 0.42845	0.42867	0.40731	AVRG		0.41177		6.32007	
3,3-Dimethyl-1-butanol	NE 0.03530	0.04577 0.03571	0.04419 0.03842	0.04692 0.03856	0.04271	0.04048	AVRG		0.04089		10.38248	
tert-Amyl methyl ether	NE 1.52534	1.82207 1.52372	1.65634 1.59018	1.67414 1.51346	1.59982	1.52885	AVRG		1.60377		6.30893	
tert-Butyl ethyl ether	NE 1.46020	1.80647 1.45186	1.57123 1.48722	1.56716 1.45836	1.46858	1.46510	AVRG		1.52624		7.51749	
tert-Amyl alcohol	NE 0.03803	0.04668 0.03817	0.04597 0.04018	0.04251 0.04285	0.04287	0.04073	AVRG		0.04200		7.27701	
Epichlorohydrin	NE 0.02666	0.03720 0.02704	0.03387 0.02777	0.03155 0.02772	0.02794	0.02942	AVRG		0.02991		12.04819	
Isoprene	NE 0.11147	0.16436 0.11863	0.19825 0.11449	0.16986 0.11423	0.11813	0.11521	AVRG		0.13607		23.83892	*

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Client Bhate Environmental Associates, Inc.

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Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
n-Amyl acetate	NE 0.63723	0.72007 0.63944	0.73131 0.65455	0.63610 0.65751	0.66393	0.68601	AVRG		0.66957		5.30890	
Isopropyl acetate	NE 0.84694	0.96664 0.83507	0.81115 0.84519	0.82457 0.83945	0.90675	0.89568	AVRG		0.86349		5.76082	
n-Butyl acetate	NE 0.54986	0.46933 0.53460	0.51599 0.54978	0.51302 0.55812	0.55855	0.57035	AVRG		0.53551		5.88026	
Acetaldehyde	NE 50952	NE 103450	NE 152553	4310 210164	6656	20285	LINR	-0.06894	0.02587		0.99963	*
Methyl Amyl Ketone	NE 0.74062	0.65724 0.75253	0.65081 0.77485	0.73145 0.78295	0.75722	0.77834	AVRG		0.73622		6.74574	
Dimethyl Disulfide	NE 0.76213	0.81112 0.75348	0.66792 0.77596	0.70809 0.75246	0.72312	0.71935	AVRG		0.74151		5.65803	
Isobutylene	NE 0.04599	0.05492 0.04507	0.05248 0.05081	0.04904 0.04389	0.04588	0.04218	AVRG		0.04781		8.88937	
2-Ethylhexyl Acrylate	NE 360378	2087 790630	3400 1215186	8837 1627894	25308	120798	LINR	0.02538	0.94922		0.99965	
94 1,2-Dichloroethylene (total)	NE 0.47212	0.59054 0.47798	0.55152 0.47957	0.52022 0.47697	0.48546	0.48413	AVRG		0.50428		8.22663	
95 Xylenes (total)	NE 0.56850	0.64773 0.59032	0.58459 0.60398	0.62199 0.60228	0.58667	0.57654	AVRG		0.59807		4.09592	
30 Dibromofluoromethane	NE 209535	1689 449558	5707 670515	9855 880893	25267	90715	LINR	-0.00695	0.44346		0.99959	
35 1,2-Dichloroethane-d4	NE 238148	3125 480296	6368 717187	11054 943547	26822	99379	LINR	-0.01718	0.47386		0.99978	

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Compound	50.00 Level 7 / 0.250 Level 1	100.00 Level 8 / 0.500 Level 2	150.00 Level 9 / 1.00 Level 3	200.00 Level 10 / 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
48 Toluene-d8	NE 1.13265	1.45018 1.22907	1.43208 1.19790	1.30411 1.15568	1.24221	1.23311	AVRG		1.26411		8.86752	
69 4-Bromofluorobenzene	NE 332999	7971 703849	11345 1057321	16470 1427380	37968	139706	LINR	-0.01076	0.48296		0.99989	

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Volatiles by EPA 8260

RunID VOA9_437296

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Dichlorodifluoromethane	NE 301782	3237 630744	5058 960667	8519 1327832	31172	134998	LINR	0.00160	0.46271		0.99983	
Chloromethane	NE 533277	6740 979734	13219 NE	24280 NE	62455	243997	LINR	-0.02699	0.73429		0.99792	
Propionitrile	NE 0.06910	0.08304 0.07191	0.07790 0.06959	0.06567 0.06755	0.07543	0.07008	AVRG		0.07225		7.66936	
Vinyl Chloride	NE 0.54961	0.53164 0.55242	0.43717 0.54597	0.48902 0.54834	0.55204	0.55364	AVRG		0.52887		7.56687	
Bromomethane	NE 189385	2378 362834	5133 572508	9237 739966	23995	85360	LINR	-0.03678	0.26230		0.99829	
Chloroethane	NE 0.34874	0.38400 0.34887	0.39288 0.34148	0.33413 0.33605	0.35705	0.36318	AVRG		0.35626		5.77503	
Trichlorofluoromethane	NE 0.60336	0.65250 0.63856	0.50831 0.62802	0.50964 0.62488	0.63485	0.66665	AVRG		0.60742		9.63343	
Acrolein	NE 0.02565	0.03356 0.02534	0.02950 0.02449	0.02511 0.02533	0.02566	0.02421	AVRG		0.02654		11.47974	
Acetone	NE 245967	8112 467276	12344 669020	18337 NE	31915	105410	LINR	-0.11414	0.16245		0.99760	
1,1-Dichloroethene	NE 0.37538	0.43475 0.38325	0.34844 0.38119	0.33936 0.38464	0.38705	0.38169	AVRG		0.37953		7.06417	

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Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Isobutyl Alcohol	NE 0.06592	0.06000 0.06937	0.06647 0.06652	0.06001 0.06907	0.06288	0.06445	AVRG		0.06496		5.32316	
Acetonitrile	NE 0.05262	0.06019 0.05598	0.05501 0.05486	0.05232 0.05223	0.05374	0.05025	AVRG		0.05413		5.29738	
Allyl Chloride	NE 1.23994	1.54447 1.31147	1.31408 1.28770	1.21739 1.22743	1.32627	1.21434	AVRG		1.29812		7.89105	
Iodomethane	NE 311144	1872 901104	3593 1654094	5244 2389174	10875	69713	QUAD	0.19719	3.17029	-0.25959	0.99395	*
Acrylonitrile	NE 0.17643	0.19222 0.19265	0.17779 0.18699	0.18194 0.18155	0.19969	0.17956	AVRG		0.18542		4.28504	
Methylene Chloride	NE 313459	6638 614571	9867 934598	14226 1286266	34262	133454	LINR	-0.02055	0.44680		0.99989	
Methyl tert-butyl ether	NE 1.11011	1.34489 1.18230	1.22763 1.16687	1.06262 1.13583	1.16892	1.07548	AVRG		1.16385		7.37549	
Carbon Disulfide	NE 1.05257	0.97637 1.06234	0.93978 1.05033	0.91298 1.04865	1.04258	1.04592	AVRG		1.01461		5.54329	
trans-1,2-Dichloroethene	NE 0.42568	0.43966 0.42424	0.36838 0.41068	0.38985 0.41906	0.41680	0.42038	AVRG		0.41275		5.16490	
Vinyl Acetate	NE 1.24787	1.16903 1.32894	1.28605 1.32075	1.14428 1.28290	1.31826	1.22557	AVRG		1.25818		5.33224	
1,1-Dichloroethane	NE 0.75452	0.91579 0.74633	0.85153 0.73811	0.77473 0.73300	0.79838	0.74713	AVRG		0.78439		7.88122	
Chloroprene	NE 0.15370	0.18753 0.16003	0.14913 0.16411	0.13564 0.16977	0.14899	0.16635	AVRG		0.15947		9.35578	

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Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
2-Butanone	NE 0.21032	0.26865 0.21900	0.27005 0.21311	0.22221 0.20708	0.22579	0.21550	AVRG		0.22797		10.59636	
Methacrylonitrile	NE 0.29063	0.32297 0.31155	0.29216 0.31218	0.25772 0.29964	0.27607	0.29576	AVRG		0.29541		6.71428	
2,2-Dichloropropane	NE 344673	3685 699035	6247 1080274	12294 1505657	33762	139835	LINR	0.00797	0.52278		0.99995	
cis-1,2-Dichloroethene	NE 0.48847	0.54176 0.48782	0.49058 0.48487	0.46721 0.48248	0.51503	0.48586	AVRG		0.49378		4.41592	
Chloroform	NE 0.81885	0.87650 0.81161	0.79076 0.79868	0.79799 0.79042	0.85300	0.80968	AVRG		0.81639		3.62615	
Bromochloromethane	NE 0.26708	0.31315 0.26410	0.30614 0.26302	0.26452 0.25295	0.28615	0.26876	AVRG		0.27621		7.56831	
1,1,1-Trichloroethane	NE 0.63238	0.65994 0.65446	0.57497 0.64619	0.52644 0.65564	0.61086	0.63915	AVRG		0.62223		7.20510	
1,1-Dichloropropene	NE 0.37173	0.32259 0.39025	0.38290 0.38140	0.31292 0.38981	0.36218	0.38416	AVRG		0.36644		7.93028	
1,2-Dichloroethane	NE 0.42081	0.46850 0.42485	0.42052 0.41425	0.45938 0.40606	0.45322	0.42725	AVRG		0.43276		5.06646	
Carbon Tetrachloride	NE 0.34607	0.35476 0.37126	0.28321 0.36664	0.26732 0.37542	0.31231	0.35238	AVRG		0.33660		11.75294	
Benzene	NE 1.23100	1.18679 1.22379	1.09401 1.20222	1.22033 1.18837	1.26301	1.23391	AVRG		1.20483		3.98055	
Trichloroethene	NE 0.34006	0.37553 0.34777	0.35201 0.34410	0.32048 0.34873	0.36729	0.34693	AVRG		0.34921		4.49432	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder HS23061712

RunID VOA9_437296

Volatiles by EPA 8260

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Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Bromodichloromethane	NE 0.38236	0.38289 0.40428	0.33360 0.40608	0.32980 0.40603	0.37143	0.36599	AVRG		0.37583		7.72711	
Methyl Methacrylate	NE 0.43942	0.45886 0.46989	0.38280 0.46614	0.37522 0.45591	0.40434	0.41660	AVRG		0.42991		8.44989	
2-Chloroethylvinyl ether	NE 0.00884	0.00852 0.00999	0.00946 NE	0.00945 NE	0.00895	0.00842	AVRG		0.00909		6.25191	
1,2-Dichloropropane	NE 0.32122	NE 0.32222	0.32786 0.32000	0.31466 0.31897	0.32797	0.32063	AVRG		0.32169		1.38453	*
2-Nitropropane	NE 0.11432	0.20680 0.13484	50.26056 0.13886	40.89437 0.13916	0.11155	0.10087	AVRG		10.23348		197	*
Dibromomethane	NE 0.19996	0.21005 0.20667	0.21181 0.20373	0.20209 0.20258	0.21295	0.20004	AVRG		0.20554		2.43958	
4-Methyl-2-Pentanone	NE 0.35703	0.31052 0.36713	0.34114 0.37263	0.41679 0.36509	0.37151	0.37510	AVRG		0.36411		7.81829	
cis-1,3-Dichloropropene	NE 477156	4533 1015887	6985 1649908	12842 2272308	37734	176588	LINR	0.03823	0.52354		0.99932	
Ethyl Methacrylate	NE 0.43593	0.46860 0.47447	0.39717 0.47560	0.34291 0.47794	0.45495	0.41708	AVRG		0.43830		10.42832	
Toluene	NE 1.37452	1.46131 1.35611	1.30389 1.33752	1.24034 1.30792	1.38024	1.44328	AVRG		1.35612		5.10785	
trans-1,3-Dichloropropene	NE 395477	4073 857257	5962 1382903	12660 1913130	31811	143978	LINR	0.04043	0.44043		0.99920	
2-Hexanone	NE 0.23737	0.21896 0.24894	0.27173 0.24680	0.31735 0.24494	0.24794	0.24808	AVRG		0.25357		10.85593	

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Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
1,1,2-Trichloroethane	NE 0.26145	0.27781 0.26759	0.33823 0.26884	0.29394 0.26174	0.29026	0.27967	AVRG		0.28217		8.50628	
1,3-Dichloropropane	NE 0.56388	0.60411 0.56350	0.57145 0.56462	0.58138 0.54844	0.60045	0.59066	AVRG		0.57650		3.26997	
Dibromochloromethane	NE 0.35269	0.33281 0.37245	0.26753 0.38159	0.28317 0.37861	0.30864	0.33570	AVRG		0.33480		12.37215	
Tetrachloroethene	NE 0.31218	0.33596 0.32329	0.35937 0.32063	0.31268 0.32848	0.33355	0.34752	AVRG		0.33041		4.74735	
1,2-Dibromoethane	NE 0.32995	0.39291 0.33734	0.36483 0.33751	0.35335 0.32947	0.34243	0.34494	AVRG		0.34808		5.80098	
1-Chlorohexane	NE 0.23045	0.28084 0.25935	0.24384 0.26305	0.24810 0.27442	0.24355	0.26710	AVRG		0.25674		6.39033	
Chlorobenzene	NE 0.93816	0.96090 0.94626	1.02474 0.94168	0.99652 0.92552	1.00286	0.97411	AVRG		0.96786		3.50306	
1,1,1,2-Tetrachloroethane	NE 0.33475	0.33813 0.34379	0.30312 0.35090	0.32230 0.35020	0.31656	0.33414	AVRG		0.33265		4.80000	
Ethylbenzene	NE 0.45349	0.44932 0.47695	0.42798 0.48030	0.38496 0.47946	0.43441	0.46740	AVRG		0.45047		6.92422	
m,p-Xylenes	NE 0.56107	0.49705 0.59332	0.47095 0.59550	0.46613 0.59257	0.47186	0.54822	AVRG		0.53296		10.58600	
o-Xylene	NE 0.54530	0.51375 0.57414	0.46105 0.58153	0.45548 0.57622	0.49419	0.53695	AVRG		0.52651		9.19888	
Styrene	NE 0.89449	0.81868 0.95766	0.66693 0.96825	0.74091 0.94500	0.69822	0.82991	AVRG		0.83556		13.68101	

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Initial Calibration Data

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Volatiles by EPA 8260

ICAL Summary Page 6 / 11

Compound	50.00 Level 7 / 0.250 Level 1	100.00 Level 8 / 0.500 Level 2	150.00 Level 9 / 1.00 Level 3	200.00 Level 10 / 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Bromoform	NE 0.23260	0.19493 0.26095	0.19245 0.26822	0.20896 0.26444	0.19978	0.21157	AVRG		0.22599		13.81919	
Isopropylbenzene	NE 1.29966	1.14173 1.39540	1.13317 1.38723	1.09443 1.38856	1.19733	1.34411	AVRG		1.26463		9.72168	
1,1,2,2-Tetrachloroethane	NE 0.86517	0.94934 0.88446	1.02444 0.87983	1.13699 0.85285	0.96171	0.90982	AVRG		0.94051		9.75227	
1,2,3-Trichloropropane	NE 0.78271	0.89588 0.82369	0.76851 0.84037	0.91659 0.83039	0.81959	0.76888	AVRG		0.82740		6.30706	
trans-1,4-Dichloro-2-butene	NE 0.05433	0.05261 0.06324	0.05796 0.06690	0.05335 0.06611	0.05527	0.04837	AVRG		0.05757		11.24480	*
n-Propylbenzene	NE 2.66761	2.34893 2.93371	2.29516 2.98954	2.26496 3.06453	2.35462	2.68484	AVRG		2.62266		12.16608	
Bromobenzene	NE 0.80219	0.83256 0.82248	0.87296 0.83564	0.91857 0.83486	0.83236	0.84108	AVRG		0.84363		3.98394	
1,3,5-Trimethylbenzene	NE 1.72613	1.71333 1.88842	1.73215 1.96460	1.69625 2.06354	1.68766	1.72132	AVRG		1.79927		7.64842	
2-Chlorotoluene	NE 1.83116	1.65439 1.87957	1.84359 1.87542	1.86405 1.87375	1.83620	1.93464	AVRG		1.84364		4.19843	
4-Chlorotoluene	NE 2.03659	1.80601 2.10132	1.92642 2.11273	2.12066 2.13399	2.01548	2.11322	AVRG		2.04071		5.42387	
tert-Butylbenzene	NE 1.72651	1.66206 1.87463	1.63607 1.89391	1.58431 1.94965	1.70142	1.87604	AVRG		1.76718		7.49680	
1,2,4-Trimethylbenzene	NE 1.70257	1.87283 1.83519	1.98426 1.91537	2.00872 2.01697	1.83192	1.77568	AVRG		1.88261		5.76159	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

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Volatiles by EPA 8260

ICAL Summary Page 7 / 11

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
sec-Butylbenzene	NE 2.18438	2.00057 2.46235	2.11593 2.51457	1.90597 2.60373	2.05445	2.32792	AVRG		2.24110		11.00553	
p-Isopropyltoluene	NE 1.76859	1.74598 2.03397	1.77727 2.13513	1.70832 2.25284	1.70523	1.77034	AVRG		1.87752		10.99191	
1,3-Dichlorobenzene	NE 1.34174	1.44494 1.39069	1.46902 1.40351	1.55334 1.41569	1.44971	1.42715	AVRG		1.43286		4.09348	
1,4-Dichlorobenzene	NE 1.40239	1.54178 1.43640	1.71276 1.45286	1.69155 1.45678	1.56931	1.48576	AVRG		1.52773		7.29827	
Benzyl Chloride	NE 234906	1867 573982	5481 988530	11203 1346925	22092	85763	LINR	0.06934	0.32121		0.99572	
n-Butylbenzene	NE 1.46534	1.58034 1.66824	1.52199 1.76126	1.45737 1.86929	1.51798	1.62397	AVRG		1.60731		8.65865	
1,2-Dichlorobenzene	NE 1.34667	1.37505 1.37717	1.58056 1.39037	1.62196 1.39656	1.41014	1.43132	AVRG		1.43664		6.73798	
1,2-Dibromo-3-Chloropropane	NE 0.13055	0.12905 0.14193	0.13125 0.15019	0.15055 0.15436	0.12496	0.12235	AVRG		0.13724		8.84952	
1,2,4-Trichlorobenzene	NE 0.92607	0.99711 0.97797	1.02603 1.01256	1.05277 1.03962	0.91403	0.94731	AVRG		0.98816		5.06669	
Hexachlorobutadiene	NE 0.34400	0.41409 0.38848	0.47350 0.41057	0.36363 0.43096	0.36197	0.40436	AVRG		0.39906		9.99191	
Naphthalene	NE 2.32218	2.00604 2.38330	2.45479 2.41879	2.35836 2.39671	2.05295	2.26528	AVRG		2.29538		7.00317	
1,2,3-Trichlorobenzene	NE 0.91575	0.89610 0.95078	1.01723 0.97037	1.09261 0.98955	0.91438	0.94752	AVRG		0.96603		6.32619	

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Project LHAAP Site18/24

Workorder HS23061712

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Volatiles by EPA 8260

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Ethyl Acetate	NE 0.40659	0.56275 0.43291	0.47646 0.42120	0.45270 0.40047	0.44438	0.42507	AVRG		0.44695		11.03167	
Methyl Acrylate	NE 0.51803	0.64029 0.55501	0.52884 0.53794	0.45224 0.52785	0.49568	0.50330	AVRG		0.52880		9.67195	
n-Butanol	NE 0.01307	0.01415 0.01509	2.08859 0.01514	4.21587 0.01494	0.01247	0.01208	AVRG		0.71127		208	*
Cyclohexanone	NE 0.02875	0.03990 0.02946	0.03613 0.02809	0.02961 0.02880	0.03016	0.02808	AVRG		0.03100		13.36896	
1,4-Dioxane	0.02235 0.00659	0.01166 0.00691	0.01127 0.00671	0.01101 0.00625	0.00960	0.00693	AVRG		0.00993		49.04531	*
n-Hexane	NE 256401	2983 595793	4787 933406	7179 1358253	28289	131033	QUAD	0.00210	2.46538	-0.18460	0.99921	
Freon TF	NE 0.32170	0.35587 0.35856	0.27604 0.35800	0.26719 0.36926	0.34986	0.36574	AVRG		0.33580		11.58349	
Methyl Acetate	NE 0.37668	0.50232 0.40100	0.47241 0.38762	0.46924 0.37810	0.40980	0.39186	AVRG		0.42100		11.22802	
Methylcyclohexane	NE 0.63877	0.71717 0.77007	0.66486 0.77041	0.57666 0.75903	0.69680	0.64861	AVRG		0.69360		9.68871	
Isopropyl alcohol	NE 0.02926	0.03524 0.03162	0.03413 0.03087	0.04209 0.02976	0.03152	0.02969	AVRG		0.03269		12.43532	
Amyl alcohol	NE 0.00986	0.01197 0.01105	1.92102 0.01113	3.42130 0.01101	0.00863	0.00951	AVRG		0.60172		205	*
Allyl alcohol	NE 256401	2691 595793	4787 933406	7179 1358253	27611	131033	QUAD	0.05728	49.27793	-3.68010	0.99921	

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Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
4-Methyl-2-pentanol	NE 0.06687	0.10161 0.07627	0.07347 0.07449	0.06147 0.07390	0.06954	0.07154	AVRG		0.07435		15.04325	
Tert-butyl alcohol	NE 592187	6757 1263261	16016 1948328	34487 2615413	66425	255911	LINR	-0.09917	0.04597		0.99942	
Diethyl ether	NE 0.32639	0.41853 0.34643	0.29113 0.34449	0.31214 0.33721	0.34912	0.31512	AVRG		0.33784		10.59316	
1,3-Butadiene	NE 0.48722	0.44026 0.50601	0.41436 0.49354	0.42154 0.49579	0.49134	0.51162	AVRG		0.47352		7.90782	
Cyclohexane	NE 384146	4345 872566	7781 1346053	8877 1948136	37840	190495	QUAD	0.00384	1.66261	-0.06851	0.99933	
Tetrahydrofuran	NE 124830	1846 246154	3378 364883	4068 488623	13490	48081	LINR	-0.04721	0.08627		0.99868	
alpha-Methylstyrene	NE 398013	3201 939505	6428 1521945	14955 2162870	33946	141914	LINR	0.07068	1.00922		0.99634	
Diisopropyl ether	NE 1.33854	1.62723 1.40873	1.35167 1.38423	1.35708 1.35239	1.43176	1.29604	AVRG		1.39419		6.88405	
Dichlorofluoromethane	NE 0.68369	1.14419 0.72055	154 0.71841	259 0.70435	0.74302	0.65918	AVRG		46.48926		203	*
Butyl acrylate	NE 0.56545	0.65141 0.62687	0.57943 0.64178	0.50180 0.63283	0.56456	0.55884	AVRG		0.59144		8.39860	
Dicyclopentadiene	NE 2.17722	2.29788 2.45924	3.10552 2.50496	2.30282 2.43925	2.47288	2.19129	AVRG		2.43901		11.40017	
1,2,3-Trimethylbenzene	NE 1.72212	2.16993 1.82789	2.16879 1.86297	1.86768 1.91009	2.05701	1.71103	AVRG		1.92195		9.02117	

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Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Ethanol	NE 83818	929 175232	2663 261491	4910 342926	9968	33180	LINR	-0.45661	0.00610		0.99807	
tert-Butyl formate	NE 0.35469	NE 0.39711	70.88590 0.40728	111 0.40312	0.37084	0.36100	AVRG		23.05896		188	*
3,3-Dimethyl-1-butanol	NE 0.03321	0.12053 0.03570	15.41396 0.03539	18.45449 0.03515	0.03977	0.03772	AVRG		3.80066		197	*
tert-Amyl methyl ether	NE 1.27072	2.14082 1.66952	303 1.69353	515 1.68414	1.51794	1.20622	AVRG		92.03003		203	*
tert-Butyl ethyl ether	NE 1.16135	1.66370 1.24096	249 1.23931	427 1.22143	1.20218	1.12101	AVRG		76.03857		204	*
tert-Amyl alcohol	NE 0.03547	0.04913 0.03971	7.08859 0.04073	11.12917 0.04031	0.03708	0.03610	AVRG		2.05514		201	*
Epichlorohydrin	NE 17348	NE 42530	230 78090	854 120896	2028	5384	QUAD	0.19276	210	-620	0.99786	*
Isoprene	NE 0.12271	0.17622 0.12050	24.46517 0.11801	42.70055 0.13763	0.11208	0.12455	AVRG		7.56416		204	*
n-Amyl acetate	NE 0.55364	NE 0.58593	NE 0.59354	211 0.58358	0.63545	0.57662	AVRG		30.68893		260	*
Isopropyl acetate	NE 0.98722	1.34246 1.04945	418 1.03674	509 1.02205	1.01129	0.99086	AVRG		104		198	*
n-Butyl acetate	NE 0.55036	0.55703 0.58437	0.53651 0.60799	0.60175 0.59915	0.53866	0.54802	AVRG		0.56932		5.06190	
Acetaldehyde	NE 0.06756	NE 0.07481	NE 0.07268	NE 0.07068	0.05587	0.07216	AVRG		0.06896		9.93199	*

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Methyl Amyl Ketone	NE 0.66113	1.57193 0.70193	232 0.68889	332 0.68782	0.72364	0.69666	AVRG		63.26693		200	*
Dimethyl Disulfide	NE 275143	1341 843448	2841 1542342	4598 2303909	15263	75368	QUAD	0.09069	2.54687	-0.35667	0.99436	
2-Ethylhexyl Acrylate	NE 214955	2309 534360	4963 905239	8201 1300346	19373	70007	QUAD	0.03475	2.11188	-0.20750	0.99843	
94 1,2-Dichloroethylene (total)	NE 0.45707	0.49071 0.45603	0.42948 0.44777	0.42853 0.45077	0.46591	0.45312	AVRG		0.45327		4.12637	
95 Xylenes (total)	NE 0.53378	0.46723 0.57391	0.43600 0.57061	0.43592 0.57101	0.45257	0.49964	AVRG		0.50452		11.72066	
30 Dibromofluoromethane	NE 271537	3644 587291	5853 869167	10602 1189943	30229	119153	LINR	-0.00632	0.41704		0.99929	
35 1,2-Dichloroethane-d4	NE 303470	3795 630129	6027 944002	11855 1273587	34153	129564	LINR	-0.01366	0.44800		0.99930	
48 Toluene-d8	NE 1.07251	1.56295 1.11768	1.00002 1.06933	1.01159 1.04518	1.14526	1.16028	AVRG		1.13164		15.10726	
69 4-Bromofluorobenzene	NE 425877	5007 923899	8608 1355424	16728 1832443	49215	178335	LINR	-0.01813	0.43793		0.99886	

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Form 6I

Initial Calibration Verification (ICV)

Volatiles by EPA 8260

Workorder

HS23061712

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061712

RunID VOA6_438076

Volatiles by EPA 8260

Sample Matrix LIQUID
Lab Smp Id ICV
Level LOW
Fraction VOA
Client Smp ID ICV
Operator PC

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.00	46.87	93.74	80-120	
1,1,1-Trichloroethane	50.00	44.94	89.89	80-120	
1,1,2,2-Tetrachloroethane	50.00	46.24	92.49	80-120	
Freon TF	50.00	49.79	99.59	80-120	
Methyl acetate	50.00	48.69	97.38	80-120	
Cyclohexane	50.00	46.80	93.62	80-120	
Methylcyclohexane	50.00	53.51	107.04	80-120	
Carbon Disulfide	100.00	90.58	90.58	80-120	
2-Hexanone	100.00	98.60	98.60	80-120	
1,1,2-Trichloroethane	50.00	47.08	94.17	80-120	
1,1-Dichloroethane	50.00	46.17	92.34	80-120	
1,1-Dichloroethene	50.00	44.21	88.43	80-120	
1,1-Dichloropropene	50.00	46.82	93.64	80-120	
1,2,3-Trichlorobenzene	50.00	50.83	101.67	80-120	
1,2,3-Trichloropropane	50.00	47.13	94.28	80-120	
1,2,4-Trichlorobenzene	50.00	50.59	101.19	80-120	
1,2,4-Trimethylbenzene	50.00	46.23	92.47	80-120	
1,2-Dibromo-3-Chloropropane	50.00	50.38	100.77	80-120	
1,2-Dibromoethane	50.00	47.45	94.91	80-120	
Acrolein	100.00	103.93	103.93	80-120	
Acrylonitrile	100.00	94.07	94.08	80-120	
1,2-Dichlorobenzene	50.00	47.36	94.73	80-120	
1,2-Dichloroethane	50.00	49.10	98.20	80-120	
1,2-Dichloropropane	50.00	48.45	96.90	80-120	
1,3,5-Trimethylbenzene	50.00	46.12	92.25	80-120	
1,3-Dichlorobenzene	50.00	47.31	94.64	80-120	
1,3-Dichloropropane	50.00	48.46	96.92	80-120	
1,4-Dichlorobenzene	50.00	46.35	92.71	80-120	
1-Chlorohexane	50.00	45.55	91.10	80-120	
2,2-Dichloropropane	50.00	49.24	98.49	80-120	
2-Butanone	100.00	102.39	102.40	80-120	
2-Chloroethylvinyl ether	100.00	102.53	102.53	80-120	
2-Chlorotoluene	50.00	45.20	90.40	80-120	
4-Chlorotoluene	50.00	46.76	93.53	80-120	

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061712

RunID VOA6_438076

Volatiles by EPA 8260

Sample Matrix LIQUID
Lab Smp Id ICV
Level LOW
Fraction VOA
Client Smp ID ICV
Operator PC

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.00	46.63	93.27	80-120	
4-Methyl-2-Pentanone	100.00	97.98	97.98	80-120	
Acetone	100.00	87.51	87.52	80-120	
Acetonitrile	500.00	494.01	98.80	80-120	
Allyl Chloride	50.00	49.12	98.25	80-120	
Benzene	50.00	47.05	94.11	80-120	
Bromobenzene	50.00	47.80	95.61	80-120	
Bromochloromethane	50.00	44.92	89.85	80-120	
Bromodichloromethane	50.00	46.41	92.84	80-120	
Bromoform	50.00	48.28	96.57	80-120	
Bromomethane	50.00	46.93	93.86	80-120	
Carbon Tetrachloride	50.00	46.16	92.34	80-120	
Chlorobenzene	50.00	46.73	93.47	80-120	
Chloroethane	50.00	46.13	92.28	80-120	
Chloroform	50.00	44.31	88.62	80-120	
Chloromethane	50.00	47.99	96.00	80-120	
Chloroprene	50.00	44.77	89.56	80-120	
cis-1,2-Dichloroethene	50.00	46.34	92.69	80-120	
cis-1,3-Dichloropropene	50.00	49.32	98.65	80-120	
Dibromochloromethane	50.00	48.01	96.02	80-120	
Dibromomethane	50.00	48.22	96.45	80-120	
Dichlorodifluoromethane	50.00	48.88	97.77	80-120	
Ethylbenzene	50.00	45.79	91.59	80-120	
Ethyl Methacrylate	50.00	49.51	99.03	80-120	
Iodomethane	100.00	92.19	92.19	80-120	
Isobutyl Alcohol	1000.00	980.04	98.00	70-130	
Propionitrile	500.00	498.23	99.65	70-130	
Hexachlorobutadiene	50.00	49.69	99.39	80-120	
Isopropylbenzene	50.00	45.67	91.36	80-120	
m,p-Xylenes	100.00	95.16	95.17	80-120	
Methyl tert-butyl ether	50.00	47.37	94.75	80-120	
Methylene Chloride	50.00	43.72	87.45	80-120	
Methacrylonitrile	50.00	48.78	97.56	80-120	
Methyl Methacrylate	50.00	49.45	98.90	80-120	

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061712

RunID VOA6_438076

Volatiles by EPA 8260

Sample Matrix LIQUID
Lab Smp Id ICV
Level LOW
Fraction VOA
Client Smp ID ICV
Operator PC

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.00	48.74	97.49	80-120	
n-Propylbenzene	50.00	46.49	92.99	80-120	
Naphthalene	50.00	52.43	104.86	80-120	
o-Xylene	50.00	46.20	92.40	80-120	
sec-Butylbenzene	50.00	45.26	90.53	80-120	
Styrene	50.00	48.54	97.09	80-120	
tert-Butylbenzene	50.00	45.20	90.41	80-120	
Tetrachloroethene	50.00	45.65	91.32	80-120	
Toluene	50.00	47.38	94.76	80-120	
trans-1,2-Dichloroethene	50.00	45.23	90.46	80-120	
trans-1,3-Dichloropropene	50.00	49.63	99.28	80-120	
trans-1,4-Dichloro-2-butene	50.00	51.27	102.56	80-120	
Trichloroethene	50.00	46.73	93.48	80-120	
Trichlorofluoromethane	50.00	46.34	92.69	80-120	
Vinyl Acetate	100.00	103.98	103.98	80-120	
Vinyl Chloride	50.00	45.89	91.79	80-120	
1,2-Dichloroethylene (total)	100.00	91.57	91.58	80-120	
Xylenes (total)	150.00	141.36	94.25	80-120	
1,4-Dioxane	1000.00	977.76	97.78	80-120	
Dibromofluoromethane	50.00	50.87	101.75	71-125	
1,2-Dichloroethane-d4	50.00	50.05	100.12	70-125	
Toluene-d8	50.00	48.61	97.23	75-125	

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061712

RunID VOA9_437296

Volatiles by EPA 8260

Sample Matrix LIQUID
Lab Smp Id ICV
Level LOW
Fraction VOA
Client Smp ID ICV
Operator PC

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.00	49.07	98.15	80-120	
1,1,1-Trichloroethane	50.00	44.11	88.23	80-120	
1,1,2,2-Tetrachloroethane	50.00	44.15	88.32	80-120	
Freon TF	50.00	42.50	85.01	80-120	
Methyl Acetate	50.00	40.70	81.42	80-120	
Cyclohexane	50.00	42.07	84.15	80-120	
Methylcyclohexane	50.00	46.30	92.61	80-120	
Carbon Disulfide	100.00	93.13	93.14	80-120	
2-Hexanone	100.00	92.61	92.61	80-120	
1,1,2-Trichloroethane	50.00	45.65	91.32	80-120	
1,1-Dichloroethane	50.00	41.14	82.28	80-120	
1,1-Dichloroethene	50.00	43.45	86.92	80-120	
1,1-Dichloropropene	50.00	45.66	91.33	80-120	
1,2,3-Trichlorobenzene	50.00	47.31	94.63	80-120	
1,2,3-Trichloropropane	50.00	45.92	91.85	80-120	
1,2,4-Trichlorobenzene	50.00	47.57	95.14	80-120	
1,2,4-Trimethylbenzene	50.00	47.79	95.60	80-120	
1,2-Dibromo-3-Chloropropane	50.00	47.57	95.14	80-120	
1,2-Dibromoethane	50.00	45.60	91.22	80-120	
Acrolein	100.00	87.41	87.42	80-120	
Acrylonitrile	100.00	91.25	91.25	80-120	
1,2-Dichlorobenzene	50.00	45.26	90.54	80-120	
1,2-Dichloroethane	50.00	44.18	88.38	80-120	
1,2-Dichloropropane	50.00	45.23	90.47	80-120	
1,3,5-Trimethylbenzene	50.00	48.21	96.43	80-120	
1,3-Dichlorobenzene	50.00	46.22	92.45	80-120	
1,3-Dichloropropane	50.00	47.41	94.82	80-120	
1,4-Dichlorobenzene	50.00	44.52	89.05	80-120	
1-Chlorohexane	50.00	40.85	81.71	80-120	
2,2-Dichloropropane	50.00	45.93	91.87	80-120	
2-Butanone	100.00	87.11	87.11	80-120	
2-Chloroethylvinyl ether	100.00	82.24	82.24	80-120	
2-Chlorotoluene	50.00	46.75	93.51	80-120	
4-Chlorotoluene	50.00	48.40	96.80	80-120	

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061712

RunID VOA9_437296

Volatiles by EPA 8260

Sample Matrix LIQUID
Lab Smp Id ICV
Level LOW
Fraction VOA
Client Smp ID ICV
Operator PC

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.00	48.52	97.04	80-120	
4-Methyl-2-Pentanone	100.00	97.72	97.73	80-120	
Acetone	100.00	95.43	95.43	80-120	
Acetonitrile	500.00	437.35	87.47	80-120	
Allyl Chloride	50.00	43.46	86.94	80-120	
Benzene	50.00	46.31	92.63	80-120	
Bromobenzene	50.00	45.71	91.42	80-120	
Bromochloromethane	50.00	44.93	89.87	80-120	
Bromodichloromethane	50.00	47.72	95.44	80-120	
Bromoform	50.00	51.02	102.05	80-120	
Bromomethane	50.00	55.03	110.08	80-120	
Carbon Tetrachloride	50.00	44.38	88.77	80-120	
Chlorobenzene	50.00	45.99	91.98	80-120	
Chloroethane	50.00	43.12	86.25	80-120	
Chloroform	50.00	43.97	87.95	80-120	
Chloromethane	50.00	40.39	80.80	80-120	
Chloroprene	50.00	42.86	85.72	80-120	
cis-1,2-Dichloroethene	50.00	44.27	88.55	80-120	
cis-1,3-Dichloropropene	50.00	44.95	89.92	80-120	
Dibromochloromethane	50.00	51.79	103.58	80-120	
Dibromomethane	50.00	45.22	90.46	80-120	
Dichlorodifluoromethane	50.00	43.44	86.88	80-120	
Ethylbenzene	50.00	48.34	96.69	80-120	
Ethyl Methacrylate	50.00	48.75	97.51	80-120	
Iodomethane	100.00	85.89	85.90	80-120	
Isobutyl Alcohol	1000.00	1063.31	106.33	70-130	
Propionitrile	500.00	447.35	89.47	70-130	
Hexachlorobutadiene	50.00	42.50	85.02	80-120	
Isopropylbenzene	50.00	48.91	97.84	80-120	
m,p-Xylenes	100.00	101.18	101.18	80-120	
Methyl tert-butyl ether	50.00	45.15	90.31	80-120	
Methylene Chloride	50.00	45.61	91.23	80-120	
Methacrylonitrile	50.00	47.68	95.38	80-120	
Methyl Methacrylate	50.00	47.58	95.17	80-120	

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061712

RunID VOA9_437296

Volatiles by EPA 8260

Sample Matrix LIQUID
Lab Smp Id ICV
Level LOW
Fraction VOA
Client Smp ID ICV
Operator PC

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.00	45.82	91.65	80-120	
n-Propylbenzene	50.00	49.51	99.02	80-120	
Naphthalene	50.00	51.00	102.01	80-120	
o-Xylene	50.00	50.13	100.28	80-120	
sec-Butylbenzene	50.00	46.73	93.47	80-120	
Styrene	50.00	52.92	105.84	80-120	
tert-Butylbenzene	50.00	46.65	93.31	80-120	
Tetrachloroethene	50.00	45.52	91.06	80-120	
Toluene	50.00	48.10	96.21	80-120	
trans-1,2-Dichloroethene	50.00	45.42	90.85	80-120	
trans-1,3-Dichloropropene	50.00	44.23	88.46	80-120	
trans-1,4-Dichloro-2-butene	50.00	54.24	108.49	80-120	
Trichloroethene	50.00	44.64	89.28	80-120	
Trichlorofluoromethane	50.00	43.95	87.91	80-120	
Vinyl Acetate	100.00	93.22	93.22	80-120	
Vinyl Chloride	50.00	44.59	89.20	80-120	
1,2-Dichloroethylene (total)	100.00	89.70	89.70	80-120	
Xylenes (total)	150.00	151.32	100.88	80-120	
1,4-Dioxane	1000.00	611.64	61.16	80-120	*
Dibromofluoromethane	50.00	48.55	97.12	71-125	
1,2-Dichloroethane-d4	50.00	47.70	95.40	70-125	
Toluene-d8	50.00	51.59	103.20	75-125	

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Form 7

Continuing Calibration Verification (CCV)

Volatiles by EPA 8260

Workorder

HS23061712

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

ALS Environmental–Houston Laboratory
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Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061712

RunID VOA6_439909

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID X062603.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date :15
ICAL Date(s) 15-JUN-2023 15-JUN-2023
ICAL Times :15 14:45
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,4-Dioxane	0.00606	0.00603	0.00603	0.001	0.45316	20.0	Averaged	
1,3-Butadiene	0.41435	0.35568	0.35568	0.100	14.15852	20.0	Averaged	
Methacrylonitrile	0.41256	0.40401	0.40401	0.100	2.07106	20.0	Averaged	
Isobutyl Alcohol	0.06519	0.06430	0.06430	0.005	1.37532	20.0	Averaged	
Acetonitrile	0.04850	0.04635	0.04635	0.005	4.41885	20.0	Averaged	
Allyl Chloride	1.09651	1.02259	1.02259	0.100	6.74135	20.0	Averaged	
Propionitrile	0.06047	0.06167	0.06167	0.010	-1.99213	20.0	Averaged	
trans-1,4-Dichloro-2-butene	0.12170	0.11737	0.11737	0.050	3.55535	20.0	Averaged	
Ethyl Acetate	0.50967	0.46040	0.46040	0.100	9.66729	20.0	Averaged	
Methyl Methacrylate	0.38707	0.38998	0.38998	0.100	-0.75122	20.0	Averaged	
Ethyl Methacrylate	0.35838	0.33124	0.33124	0.100	7.57324	20.0	Averaged	
Methyl Acrylate	0.40496	0.42432	0.42432	0.100	-4.78135	20.0	Averaged	
Diethyl ether	0.31325	0.31619	0.31619	0.100	-0.93867	20.0	Averaged	
Diisopropyl ether	1.47464	1.41555	1.41555	0.100	4.00693	20.0	Averaged	
Dichlorodifluoromethane	50.0	40.21014	0.34570	0.100	19.57972	20.0	Linear	
Chloromethane	50.0	44.29686	0.46699	0.100	11.40627	20.0	Linear	
Vinyl Chloride	0.52511	0.44888	0.44888	0.100	14.51678	20.0	Averaged	
Bromomethane	0.30142	0.28051	0.28051	0.100	6.93603	20.0	Averaged	
Chloroethane	0.32098	0.29846	0.29846	0.100	7.01722	20.0	Averaged	
Trichlorofluoromethane	0.62401	0.57379	0.57379	0.100	8.04767	20.0	Averaged	
Acrolein	0.03103	0.02996	0.02996	0.010	3.42719	20.0	Averaged	
Acetone	100	101	0.13177	0.100	-1.07479	20.0	Linear	
1,1-Dichloroethene	0.39145	0.35013	0.35013	0.100	10.55648	20.0	Averaged	
Iodomethane	100	101	0.65580	0.100	-0.95186	20.0	Quadratic	
Acrylonitrile	0.15871	0.15060	0.15060	0.050	5.10761	20.0	Averaged	
Methylene Chloride	0.55293	0.48221	0.48221	0.100	12.79050	20.0	Averaged	
Methyl tert-butyl ether	1.36625	1.33506	1.33506	0.100	2.28331	20.0	Averaged	
Carbon Disulfide	1.39384	1.18818	1.18818	0.100	14.75490	20.0	Averaged	
trans-1,2-Dichloroethene	0.46841	0.42354	0.42354	0.100	9.57927	20.0	Averaged	
Vinyl Acetate	1.25019	1.27516	1.27516	0.010	-1.99704	20.0	Averaged	
1,1-Dichloroethane	0.84382	0.76155	0.76155	0.200	9.74964	20.0	Averaged	
2-Butanone	0.16455	0.16591	0.16591	0.100	-0.82550	20.0	Averaged	
2,2-Dichloropropane	50.0	48.60078	0.64725	0.100	2.79844	20.0	Linear	
cis-1,2-Dichloroethene	0.54016	0.50132	0.50132	0.100	7.18993	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061712

RunID VOA6_439909

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID X062603.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date :15
ICAL Date(s) 15-JUN-2023 15-JUN-2023
ICAL Times :15 14:45
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Chloroform	0.90821	0.80782	0.80782	0.200	11.05382	20.0	Averaged	
Bromochloromethane	0.28784	0.27213	0.27213	0.100	5.45747	20.0	Averaged	
30 Dibromofluoromethane	50.0	50.90218	0.45454	0.100	-1.80436	20.0	Linear	
1,1,1-Trichloroethane	0.73406	0.66703	0.66703	0.100	9.13050	20.0	Averaged	
1,1-Dichloropropene	0.41897	0.37943	0.37943	0.100	9.43578	20.0	Averaged	
1,2-Dichloroethane	0.41982	0.41399	0.41399	0.100	1.38763	20.0	Averaged	
Carbon Tetrachloride	0.40293	0.37121	0.37121	0.100	7.87367	20.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	49.91244	0.48118	0.100	0.17512	20.0	Linear	
Benzene	1.28613	1.21032	1.21032	0.500	5.89481	20.0	Averaged	
Trichloroethene	0.35461	0.33760	0.33760	0.200	4.79652	20.0	Averaged	
Bromodichloromethane	0.45495	0.43052	0.43052	0.200	5.36899	20.0	Averaged	
2-Chloroethylvinyl ether	0.12311	0.11928	0.11928	0.001	3.11323	20.0	Averaged	
1,2-Dichloropropane	0.33759	0.32025	0.32025	0.100	5.13567	20.0	Averaged	
Dibromomethane	0.21192	0.21155	0.21155	0.100	0.17626	20.0	Averaged	
4-Methyl-2-Pentanone	0.32299	0.30961	0.30961	0.100	4.14247	20.0	Averaged	
cis-1,3-Dichloropropene	0.56095	0.55384	0.55384	0.200	1.26759	20.0	Averaged	
48 Toluene-d8	1.26411	1.21637	1.21637	0.100	3.77647	20.0	Averaged	
Toluene	1.46787	1.36471	1.36471	0.400	7.02784	20.0	Averaged	
trans-1,3-Dichloropropene	0.46933	0.47363	0.47363	0.100	-0.91562	20.0	Averaged	
2-Hexanone	0.21575	0.22018	0.22018	0.100	-2.05396	20.0	Averaged	
1,1,2-Trichloroethane	0.28597	0.27657	0.27657	0.100	3.28711	20.0	Averaged	
1,3-Dichloropropane	0.57821	0.55808	0.55808	0.100	3.48036	20.0	Averaged	
Dibromochloromethane	0.40528	0.40218	0.40218	0.100	0.76499	20.0	Averaged	
Tetrachloroethene	0.30185	0.27653	0.27653	0.200	8.38944	20.0	Averaged	
1,2-Dibromoethane	0.36552	0.35669	0.35669	0.100	2.41432	20.0	Averaged	
1-Chlorohexane	0.30406	0.26542	0.26542	0.100	12.70985	20.0	Averaged	
Chlorobenzene	1.00438	0.94916	0.94916	0.500	5.49795	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.37452	0.35713	0.35713	0.100	4.64268	20.0	Averaged	
Ethylbenzene	0.51747	0.46843	0.46843	0.100	9.47689	20.0	Averaged	
m,p-Xylenes	0.63815	0.59768	0.59768	0.100	6.34090	20.0	Averaged	
o-Xylene	0.63677	0.58854	0.58854	0.300	7.57409	20.0	Averaged	
Styrene	1.04887	1.01843	1.01843	0.300	2.90199	20.0	Averaged	
Bromoform	0.28254	0.28577	0.28577	0.100	-1.14378	20.0	Averaged	
Isopropylbenzene	1.57393	1.39379	1.39379	0.100	11.44500	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061712

RunID VOA6_439909

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID X062603.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date :15
ICAL Date(s) 15-JUN-2023 15-JUN-2023
ICAL Times :15 14:45
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,1,2,2-Tetrachloroethane	0.87919	0.81969	0.81969	0.300	6.76782	20.0	Averaged	
1,2,3-Trichloropropane	0.63044	0.59844	0.59844	0.100	5.07640	20.0	Averaged	
n-Propylbenzene	3.29025	2.95861	2.95861	0.100	10.07941	20.0	Averaged	
Bromobenzene	0.81493	0.78222	0.78222	0.100	4.01479	20.0	Averaged	
1,3,5-Trimethylbenzene	2.41429	2.17232	2.17232	0.100	10.02244	20.0	Averaged	
2-Chlorotoluene	2.08941	1.85489	1.85489	0.100	11.22397	20.0	Averaged	
4-Chlorotoluene	2.33060	2.13621	2.13621	0.100	8.34081	20.0	Averaged	
tert-Butylbenzene	2.01139	1.76963	1.76963	0.100	12.01929	20.0	Averaged	
1,2,4-Trimethylbenzene	2.43582	2.22125	2.22125	0.100	8.80894	20.0	Averaged	
sec-Butylbenzene	2.83678	2.48725	2.48725	0.100	12.32134	20.0	Averaged	
p-Isopropyltoluene	2.48362	2.25579	2.25579	0.100	9.17360	20.0	Averaged	
1,3-Dichlorobenzene	1.45104	1.34581	1.34581	0.600	7.25203	20.0	Averaged	
1,4-Dichlorobenzene	1.55314	1.42962	1.42962	0.400	7.95276	20.0	Averaged	
n-Butylbenzene	2.11532	1.98810	1.98810	0.500	6.01459	20.0	Averaged	
1,2-Dichlorobenzene	1.43975	1.37665	1.37665	0.400	4.38274	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	52.04982	0.14940	0.040	-4.09964	20.0	Linear	
1,2,4-Trichlorobenzene	1.00154	0.98842	0.98842	0.100	1.31024	20.0	Averaged	
Hexachlorobutadiene	0.44956	0.43274	0.43274	0.100	3.74282	20.0	Averaged	
Naphthalene	2.25463	2.33452	2.33452	0.200	-3.54318	20.0	Averaged	
1,2,3-Trichlorobenzene	0.92158	0.93646	0.93646	0.010	-1.61414	20.0	Averaged	
94 1,2-Dichloroethylene (total	0.50428	0.46243	0.46243	0.200	8.29961	20.0	Averaged	
95 Xylenes (total)	0.59807	0.56599	0.56599	0.100	5.36299	20.0	Averaged	
Cyclohexane	0.63736	0.54831	0.54831	0.100	13.97210	20.0	Averaged	
Freon TF	50.0	49.36081	0.34333	0.100	1.27837	20.0	Quadratic	
Methylcyclohexane	0.69881	0.73601	0.73601	0.100	-5.32438	20.0	Averaged	
Methyl Acetate	0.29595	0.28293	0.28293	0.100	4.39888	20.0	Averaged	
Tert-butyl alcohol	0.05134	0.04604	0.04604	0.005	10.33501	20.0	Averaged	
Isopropyl alcohol	0.02834	0.02584	0.02584	0.005	8.83484	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061712

RunID VOA6_439909

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID X062632.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date :26
ICAL Date(s) 15-JUN-2023 15-JUN-2023
ICAL Times :15 14:45
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,4-Dioxane	0.00606	0.00551	0.00551	0.001	9.12715	50.0	Averaged	
1,3-Butadiene	0.41435	0.34521	0.34521	0.100	16.68623	50.0	Averaged	
Methacrylonitrile	0.41256	0.38155	0.38155	0.100	7.51647	50.0	Averaged	
Isobutyl Alcohol	0.06519	0.05839	0.05839	0.005	10.43143	50.0	Averaged	
Acetonitrile	0.04850	0.04349	0.04349	0.005	10.31655	50.0	Averaged	
Allyl Chloride	1.09651	0.95089	0.95089	0.100	13.28004	50.0	Averaged	
Propionitrile	0.06047	0.05846	0.05846	0.010	3.32612	50.0	Averaged	
trans-1,4-Dichloro-2-butene	0.12170	0.10540	0.10540	0.050	13.39156	50.0	Averaged	
Ethyl Acetate	0.50967	0.42938	0.42938	0.100	15.75373	50.0	Averaged	
Methyl Methacrylate	0.38707	0.36719	0.36719	0.100	5.13624	50.0	Averaged	
Ethyl Methacrylate	0.35838	0.30169	0.30169	0.100	15.81806	50.0	Averaged	
Methyl Acrylate	0.40496	0.40923	0.40923	0.100	-1.05566	50.0	Averaged	
Diethyl ether	0.31325	0.28794	0.28794	0.100	8.07819	50.0	Averaged	
Diisopropyl ether	1.47464	1.28740	1.28740	0.100	12.69715	50.0	Averaged	
Dichlorodifluoromethane	50.0	39.57464	0.34019	0.100	20.85072	50.0	Linear	
Chloromethane	50.0	43.62179	0.45971	0.100	12.75642	50.0	Linear	
Vinyl Chloride	0.52511	0.43864	0.43864	0.100	16.46645	50.0	Averaged	
Bromomethane	0.30142	0.28213	0.28213	0.100	6.39963	50.0	Averaged	
Chloroethane	0.32098	0.28898	0.28898	0.100	9.96932	50.0	Averaged	
Trichlorofluoromethane	0.62401	0.56632	0.56632	0.100	9.24382	50.0	Averaged	
Acrolein	0.03103	0.02541	0.02541	0.010	18.11025	50.0	Averaged	
Acetone	100	85.77685	0.11188	0.100	14.22315	50.0	Linear	
1,1-Dichloroethene	0.39145	0.35252	0.35252	0.100	9.94426	50.0	Averaged	
Iodomethane	100	95.31061	0.61785	0.100	4.68939	50.0	Quadratic	
Acrylonitrile	0.15871	0.13866	0.13866	0.050	12.63524	50.0	Averaged	
Methylene Chloride	0.55293	0.47578	0.47578	0.100	13.95420	50.0	Averaged	
Methyl tert-butyl ether	1.36625	1.21816	1.21816	0.100	10.83909	50.0	Averaged	
Carbon Disulfide	1.39384	1.05466	1.05466	0.100	24.33471	50.0	Averaged	
trans-1,2-Dichloroethene	0.46841	0.41235	0.41235	0.100	11.96758	50.0	Averaged	
Vinyl Acetate	1.25019	1.10063	1.10063	0.010	11.96294	50.0	Averaged	
1,1-Dichloroethane	0.84382	0.74562	0.74562	0.200	11.63772	50.0	Averaged	
2-Butanone	0.16455	0.15148	0.15148	0.100	7.93994	50.0	Averaged	
2,2-Dichloropropane	50.0	43.63065	0.58107	0.100	12.73870	50.0	Linear	
cis-1,2-Dichloroethene	0.54016	0.49456	0.49456	0.100	8.44093	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061712

RunID VOA6_439909

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID X062632.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date :26
ICAL Date(s) 15-JUN-2023 15-JUN-2023
ICAL Times :15 14:45
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Chloroform	0.90821	0.79288	0.79288	0.200	12.69844	50.0	Averaged	
Bromochloromethane	0.28784	0.26575	0.26575	0.100	7.67248	50.0	Averaged	
30 Dibromofluoromethane	50.0	48.00094	0.42881	0.100	3.99812	50.0	Linear	
1,1,1-Trichloroethane	0.73406	0.66354	0.66354	0.100	9.60590	50.0	Averaged	
1,1-Dichloropropene	0.41897	0.37950	0.37950	0.100	9.41892	50.0	Averaged	
1,2-Dichloroethane	0.41982	0.38211	0.38211	0.100	8.98261	50.0	Averaged	
Carbon Tetrachloride	0.40293	0.36825	0.36825	0.100	8.60637	50.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	45.54653	0.43980	0.100	8.90693	50.0	Linear	
Benzene	1.28613	1.18399	1.18399	0.500	7.94162	50.0	Averaged	
Trichloroethene	0.35461	0.34389	0.34389	0.200	3.02410	50.0	Averaged	
Bromodichloromethane	0.45495	0.41004	0.41004	0.200	9.87217	50.0	Averaged	
2-Chloroethylvinyl ether	0.12311	0.09910	0.09910	0.001	19.50289	50.0	Averaged	
1,2-Dichloropropane	0.33759	0.30945	0.30945	0.100	8.33584	50.0	Averaged	
Dibromomethane	0.21192	0.20010	0.20010	0.100	5.57566	50.0	Averaged	
4-Methyl-2-Pentanone	0.32299	0.28372	0.28372	0.100	12.15752	50.0	Averaged	
cis-1,3-Dichloropropene	0.56095	0.51705	0.51705	0.200	7.82582	50.0	Averaged	
48 Toluene-d8	1.26411	1.19464	1.19464	0.100	5.49537	50.0	Averaged	
Toluene	1.46787	1.39268	1.39268	0.400	5.12225	50.0	Averaged	
trans-1,3-Dichloropropene	0.46933	0.43157	0.43157	0.100	8.04588	50.0	Averaged	
2-Hexanone	0.21575	0.19650	0.19650	0.100	8.92161	50.0	Averaged	
1,1,2-Trichloroethane	0.28597	0.26477	0.26477	0.100	7.41132	50.0	Averaged	
1,3-Dichloropropane	0.57821	0.54226	0.54226	0.100	6.21757	50.0	Averaged	
Dibromochloromethane	0.40528	0.38753	0.38753	0.100	4.38074	50.0	Averaged	
Tetrachloroethene	0.30185	0.28389	0.28389	0.200	5.95015	50.0	Averaged	
1,2-Dibromoethane	0.36552	0.34874	0.34874	0.100	4.59122	50.0	Averaged	
1-Chlorohexane	0.30406	0.25315	0.25315	0.100	16.74329	50.0	Averaged	
Chlorobenzene	1.00438	0.95930	0.95930	0.500	4.48869	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.37452	0.35517	0.35517	0.100	5.16671	50.0	Averaged	
Ethylbenzene	0.51747	0.48714	0.48714	0.100	5.86185	50.0	Averaged	
m,p-Xylenes	0.63815	0.61755	0.61755	0.100	3.22681	50.0	Averaged	
o-Xylene	0.63677	0.59475	0.59475	0.300	6.59942	50.0	Averaged	
Styrene	1.04887	1.02843	1.02843	0.300	1.94838	50.0	Averaged	
Bromoform	0.28254	0.27608	0.27608	0.100	2.28632	50.0	Averaged	
Isopropylbenzene	1.57393	1.46011	1.46011	0.100	7.23149	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061712

RunID VOA6_439909

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID X062632.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date :26
ICAL Date(s) 15-JUN-2023 15-JUN-2023
ICAL Times :15 14:45
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,1,2,2-Tetrachloroethane	0.87919	0.75168	0.75168	0.300	14.50259	50.0	Averaged	
1,2,3-Trichloropropane	0.63044	0.58725	0.58725	0.100	6.85150	50.0	Averaged	
n-Propylbenzene	3.29025	2.96633	2.96633	0.100	9.84505	50.0	Averaged	
Bromobenzene	0.81493	0.76322	0.76322	0.100	6.34642	50.0	Averaged	
1,3,5-Trimethylbenzene	2.41429	2.20688	2.20688	0.100	8.59085	50.0	Averaged	
2-Chlorotoluene	2.08941	1.84250	1.84250	0.100	11.81742	50.0	Averaged	
4-Chlorotoluene	2.33060	2.14909	2.14909	0.100	7.78835	50.0	Averaged	
tert-Butylbenzene	2.01139	1.82100	1.82100	0.100	9.46549	50.0	Averaged	
1,2,4-Trimethylbenzene	2.43582	2.23145	2.23145	0.100	8.39024	50.0	Averaged	
sec-Butylbenzene	2.83678	2.56291	2.56291	0.100	9.65410	50.0	Averaged	
p-Isopropyltoluene	2.48362	2.27807	2.27807	0.100	8.27648	50.0	Averaged	
1,3-Dichlorobenzene	1.45104	1.34645	1.34645	0.600	7.20828	50.0	Averaged	
1,4-Dichlorobenzene	1.55314	1.40811	1.40811	0.400	9.33809	50.0	Averaged	
n-Butylbenzene	2.11532	1.97057	1.97057	0.500	6.84317	50.0	Averaged	
1,2-Dichlorobenzene	1.43975	1.34163	1.34163	0.400	6.81566	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	46.56304	0.13357	0.040	6.87391	50.0	Linear	
1,2,4-Trichlorobenzene	1.00154	0.95678	0.95678	0.100	4.46898	50.0	Averaged	
Hexachlorobutadiene	0.44956	0.42215	0.42215	0.100	6.09891	50.0	Averaged	
Naphthalene	2.25463	2.13303	2.13303	0.200	5.39338	50.0	Averaged	
1,2,3-Trichlorobenzene	0.92158	0.87825	0.87825	0.010	4.70200	50.0	Averaged	
94 1,2-Dichloroethylene (total	0.50428	0.45346	0.45346	0.200	10.07881	50.0	Averaged	
95 Xylenes (total)	0.59807	0.57578	0.57578	0.100	3.72578	50.0	Averaged	
Cyclohexane	0.63736	0.59384	0.59384	0.100	6.82795	50.0	Averaged	
Freon TF	50.0	49.98053	0.34773	0.100	0.03894	50.0	Quadratic	
Methylcyclohexane	0.69881	0.67128	0.67128	0.100	3.93865	50.0	Averaged	
Methyl Acetate	0.29595	0.26410	0.26410	0.100	10.76006	50.0	Averaged	
Tert-butyl alcohol	0.05134	0.04026	0.04026	0.005	21.58916	50.0	Averaged	
Isopropyl alcohol	0.02834	0.02166	0.02166	0.005	23.58268	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061712

RunID VOA6_440138

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID X062803.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date :17
ICAL Date(s) 15-JUN-2023 15-JUN-2023
ICAL Times :15 14:45
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,4-Dioxane	0.00606	0.00642	0.00642	0.001	-6.01799	20.0	Averaged	
1,3-Butadiene	0.41435	0.33412	0.33412	0.100	19.36196	20.0	Averaged	
Methacrylonitrile	0.41256	0.35290	0.35290	0.100	14.46096	20.0	Averaged	
Isobutyl Alcohol	0.06519	0.05690	0.05690	0.005	12.71737	20.0	Averaged	
Acetonitrile	0.04850	0.03969	0.03969	0.005	18.15530	20.0	Averaged	
Allyl Chloride	1.09651	0.89019	0.89019	0.100	18.81549	20.0	Averaged	
Propionitrile	0.06047	0.05308	0.05308	0.010	12.22703	20.0	Averaged	
trans-1,4-Dichloro-2-butene	0.12170	0.11489	0.11489	0.050	5.59014	20.0	Averaged	
Acetaldehyde	200	170	0.02237	0.001	15.24783	20.0	Linear	
Chloroprene	0.16619	0.13901	0.13901	0.100	16.35051	20.0	Averaged	
Ethyl Acetate	0.50967	0.41224	0.41224	0.100	19.11738	20.0	Averaged	
Methyl Methacrylate	0.38707	0.33816	0.33816	0.100	12.63625	20.0	Averaged	
Ethyl Methacrylate	0.35838	0.30225	0.30225	0.100	15.66101	20.0	Averaged	
Methyl Acrylate	0.40496	0.39116	0.39116	0.100	3.40790	20.0	Averaged	
n-Hexane	50.0	48.13571	0.43980	0.100	3.72857	20.0	Quadratic	
Diethyl ether	0.31325	0.27120	0.27120	0.100	13.42374	20.0	Averaged	
Diisopropyl ether	1.47464	1.20735	1.20735	0.100	18.12530	20.0	Averaged	
1,2,3-Trimethylbenzene	2.37667	2.35747	2.35747	0.100	0.80800	20.0	Averaged	
Dichlorodifluoromethane	50.0	45.38696	0.39058	0.100	9.22609	20.0	Linear	
Chloromethane	50.0	44.50112	0.46920	0.100	10.99777	20.0	Linear	
Vinyl Chloride	0.52511	0.44428	0.44428	0.100	15.39172	20.0	Averaged	
Bromomethane	0.30142	0.28996	0.28996	0.100	3.80116	20.0	Averaged	
Chloroethane	0.32098	0.28355	0.28355	0.100	11.65958	20.0	Averaged	
Trichlorofluoromethane	0.62401	0.57134	0.57134	0.100	8.43972	20.0	Averaged	
Acrolein	0.03103	0.02795	0.02795	0.010	9.92069	20.0	Averaged	
Acetone	100	80.19147	0.10462	0.100	19.80853	20.0	Linear	
1,1-Dichloroethene	0.39145	0.34470	0.34470	0.100	11.94426	20.0	Averaged	
Iodomethane	100	103	0.67140	0.100	-3.26937	20.0	Quadratic	
Acrylonitrile	0.15871	0.13377	0.13377	0.050	15.71399	20.0	Averaged	
Methylene Chloride	0.55293	0.48641	0.48641	0.100	12.03184	20.0	Averaged	
Methyl tert-butyl ether	1.36625	1.17578	1.17578	0.100	13.94118	20.0	Averaged	
Carbon Disulfide	1.39384	1.17701	1.17701	0.100	15.55668	20.0	Averaged	
trans-1,2-Dichloroethene	0.46841	0.42926	0.42926	0.100	8.35815	20.0	Averaged	
Vinyl Acetate	1.25019	1.13417	1.13417	0.010	9.28070	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061712

RunID VOA6_440138

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID X062803.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date :17
ICAL Date(s) 15-JUN-2023 15-JUN-2023
ICAL Times :15 14:45
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,1-Dichloroethane	0.84382	0.74066	0.74066	0.200	12.22566	20.0	Averaged	
2-Butanone	0.16455	0.14631	0.14631	0.100	11.08528	20.0	Averaged	
2,2-Dichloropropane	50.0	46.69741	0.62190	0.100	6.60518	20.0	Linear	
cis-1,2-Dichloroethene	0.54016	0.50382	0.50382	0.100	6.72776	20.0	Averaged	
Chloroform	0.90821	0.79928	0.79928	0.200	11.99386	20.0	Averaged	
Bromochloromethane	0.28784	0.28238	0.28238	0.100	1.89575	20.0	Averaged	
30 Dibromofluoromethane	50.0	47.40050	0.42348	0.100	5.19901	20.0	Linear	
1,1,1-Trichloroethane	0.73406	0.64702	0.64702	0.100	11.85653	20.0	Averaged	
1,1-Dichloropropene	0.41897	0.39374	0.39374	0.100	6.02211	20.0	Averaged	
1,2-Dichloroethane	0.41982	0.39148	0.39148	0.100	6.75034	20.0	Averaged	
Carbon Tetrachloride	0.40293	0.38509	0.38509	0.100	4.42868	20.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	43.62945	0.42163	0.100	12.74110	20.0	Linear	
Benzene	1.28613	1.24750	1.24750	0.500	3.00395	20.0	Averaged	
Trichloroethene	0.35461	0.36790	0.36790	0.200	-3.74668	20.0	Averaged	
Bromodichloromethane	0.45495	0.43432	0.43432	0.200	4.53568	20.0	Averaged	
2-Chloroethylvinyl ether	0.12311	0.12316	0.12316	0.001	-0.03976	20.0	Averaged	
1,2-Dichloropropane	0.33759	0.32495	0.32495	0.100	3.74253	20.0	Averaged	
Dibromomethane	0.21192	0.21563	0.21563	0.100	-1.74983	20.0	Averaged	
4-Methyl-2-Pentanone	0.32299	0.29238	0.29238	0.100	9.47589	20.0	Averaged	
cis-1,3-Dichloropropene	0.56095	0.55766	0.55766	0.200	0.58652	20.0	Averaged	
48 Toluene-d8	1.26411	1.19807	1.19807	0.100	5.22448	20.0	Averaged	
Toluene	1.46787	1.47521	1.47521	0.400	-0.50023	20.0	Averaged	
trans-1,3-Dichloropropene	0.46933	0.47222	0.47222	0.100	-0.61432	20.0	Averaged	
2-Hexanone	0.21575	0.20074	0.20074	0.100	6.95719	20.0	Averaged	
1,1,2-Trichloroethane	0.28597	0.28692	0.28692	0.100	-0.33344	20.0	Averaged	
1,3-Dichloropropane	0.57821	0.57866	0.57866	0.100	-0.07776	20.0	Averaged	
Dibromochloromethane	0.40528	0.42427	0.42427	0.100	-4.68546	20.0	Averaged	
Tetrachloroethene	0.30185	0.31268	0.31268	0.200	-3.58728	20.0	Averaged	
1,2-Dibromoethane	0.36552	0.37316	0.37316	0.100	-2.09006	20.0	Averaged	
1-Chlorohexane	0.30406	0.26864	0.26864	0.100	11.64843	20.0	Averaged	
Chlorobenzene	1.00438	1.04069	1.04069	0.500	-3.61489	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.37452	0.39425	0.39425	0.100	-5.26835	20.0	Averaged	
Ethylbenzene	0.51747	0.51767	0.51767	0.100	-0.03800	20.0	Averaged	
m,p-Xylenes	0.63815	0.66930	0.66930	0.100	-4.88229	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061712

RunID VOA6_440138

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID X062803.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date :17
ICAL Date(s) 15-JUN-2023 15-JUN-2023
ICAL Times :15 14:45
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
o-Xylene	0.63677	0.64618	0.64618	0.300	-1.47771	20.0	Averaged	
Styrene	1.04887	1.12404	1.12404	0.300	-7.16744	20.0	Averaged	
Bromoform	0.28254	0.31337	0.31337	0.100	-10.91184	20.0	Averaged	
Isopropylbenzene	1.57393	1.55877	1.55877	0.100	0.96297	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.87919	0.84836	0.84836	0.300	3.50622	20.0	Averaged	
1,2,3-Trichloropropane	0.63044	0.65224	0.65224	0.100	-3.45865	20.0	Averaged	
n-Propylbenzene	3.29025	3.19690	3.19690	0.100	2.83728	20.0	Averaged	
Bromobenzene	0.81493	0.87167	0.87167	0.100	-6.96171	20.0	Averaged	
1,3,5-Trimethylbenzene	2.41429	2.39350	2.39350	0.100	0.86138	20.0	Averaged	
2-Chlorotoluene	2.08941	1.99586	1.99586	0.100	4.47744	20.0	Averaged	
4-Chlorotoluene	2.33060	2.33717	2.33717	0.100	-0.28162	20.0	Averaged	
tert-Butylbenzene	2.01139	1.98018	1.98018	0.100	1.55148	20.0	Averaged	
1,2,4-Trimethylbenzene	2.43582	2.45982	2.45982	0.100	-0.98514	20.0	Averaged	
sec-Butylbenzene	2.83678	2.76702	2.76702	0.100	2.45908	20.0	Averaged	
p-Isopropyltoluene	2.48362	2.49052	2.49052	0.100	-0.27752	20.0	Averaged	
1,3-Dichlorobenzene	1.45104	1.50514	1.50514	0.600	-3.72813	20.0	Averaged	
1,4-Dichlorobenzene	1.55314	1.58375	1.58375	0.400	-1.97059	20.0	Averaged	
n-Butylbenzene	2.11532	2.14999	2.14999	0.500	-1.63861	20.0	Averaged	
1,2-Dichlorobenzene	1.43975	1.51249	1.51249	0.400	-5.05173	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	55.29483	0.15876	0.040	-10.58965	20.0	Linear	
1,2,4-Trichlorobenzene	1.00154	1.11100	1.11100	0.100	-10.92892	20.0	Averaged	
Hexachlorobutadiene	0.44956	0.49362	0.49362	0.100	-9.80044	20.0	Averaged	
Naphthalene	2.25463	2.48740	2.48740	0.200	-10.32387	20.0	Averaged	
1,2,3-Trichlorobenzene	0.92158	1.03354	1.03354	0.010	-12.14807	20.0	Averaged	
94 1,2-Dichloroethylene (total	0.50428	0.46654	0.46654	0.200	7.48496	20.0	Averaged	
95 Xylenes (total)	0.59807	0.62328	0.62328	0.100	-4.21633	20.0	Averaged	
Cyclohexane	0.63736	0.55080	0.55080	0.100	13.58158	20.0	Averaged	
Freon TF	50.0	47.89526	0.33293	0.100	4.20949	20.0	Quadratic	
Methylcyclohexane	0.69881	0.67368	0.67368	0.100	3.59508	20.0	Averaged	
Methyl Acetate	0.29595	0.24641	0.24641	0.100	16.73899	20.0	Averaged	
Tert-butyl alcohol	0.05134	0.04447	0.04447	0.005	13.39553	20.0	Averaged	
Isopropyl alcohol	0.02834	0.02391	0.02391	0.005	15.63063	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061712

RunID VOA6_440138

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID X062830.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date :45
ICAL Date(s) 15-JUN-2023 15-JUN-2023
ICAL Times :15 14:45
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,4-Dioxane	0.00606	0.00542	0.00542	0.001	10.54051	50.0	Averaged	
1,3-Butadiene	0.41435	0.33258	0.33258	0.100	19.73476	50.0	Averaged	
Methacrylonitrile	0.41256	0.34648	0.34648	0.100	16.01512	50.0	Averaged	
Isobutyl Alcohol	0.06519	0.05290	0.05290	0.005	18.85451	50.0	Averaged	
Acetonitrile	0.04850	0.03808	0.03808	0.005	21.47563	50.0	Averaged	
Allyl Chloride	1.09651	0.86926	0.86926	0.100	20.72472	50.0	Averaged	
Propionitrile	0.06047	0.05347	0.05347	0.010	11.56705	50.0	Averaged	
trans-1,4-Dichloro-2-butene	0.12170	0.09726	0.09726	0.050	20.08037	50.0	Averaged	
Acetaldehyde	200	212	0.02787	0.001	-6.03612	50.0	Linear	
Chloroprene	0.16619	0.13689	0.13689	0.100	17.63147	50.0	Averaged	
Ethyl Acetate	0.50967	0.39007	0.39007	0.100	23.46693	50.0	Averaged	
Methyl Methacrylate	0.38707	0.33583	0.33583	0.100	13.23710	50.0	Averaged	
Ethyl Methacrylate	0.35838	0.29960	0.29960	0.100	16.40185	50.0	Averaged	
Methyl Acrylate	0.40496	0.38452	0.38452	0.100	5.04736	50.0	Averaged	
n-Hexane	50.0	42.74761	0.38828	0.100	14.50479	50.0	Quadratic	
Diethyl ether	0.31325	0.27306	0.27306	0.100	12.82802	50.0	Averaged	
Diisopropyl ether	1.47464	1.25321	1.25321	0.100	15.01557	50.0	Averaged	
1,2,3-Trimethylbenzene	2.37667	2.31881	2.31881	0.100	2.43452	50.0	Averaged	
Dichlorodifluoromethane	50.0	35.93834	0.30867	0.100	28.12332	50.0	Linear	
Chloromethane	50.0	40.76367	0.42886	0.100	18.47266	50.0	Linear	
Vinyl Chloride	0.52511	0.42429	0.42429	0.100	19.19878	50.0	Averaged	
Bromomethane	0.30142	0.27926	0.27926	0.100	7.35091	50.0	Averaged	
Chloroethane	0.32098	0.28015	0.28015	0.100	12.72155	50.0	Averaged	
Trichlorofluoromethane	0.62401	0.53089	0.53089	0.100	14.92243	50.0	Averaged	
Acrolein	0.03103	0.02610	0.02610	0.010	15.87736	50.0	Averaged	
Acetone	100	71.18534	0.09291	0.100	28.81466	50.0	Linear	
1,1-Dichloroethene	0.39145	0.33215	0.33215	0.100	15.15012	50.0	Averaged	
Iodomethane	100	93.70154	0.60703	0.100	6.29846	50.0	Quadratic	
Acrylonitrile	0.15871	0.13926	0.13926	0.050	12.25683	50.0	Averaged	
Methylene Chloride	0.55293	0.45809	0.45809	0.100	17.15269	50.0	Averaged	
Methyl tert-butyl ether	1.36625	1.16903	1.16903	0.100	14.43513	50.0	Averaged	
Carbon Disulfide	1.39384	1.10140	1.10140	0.100	20.98086	50.0	Averaged	
trans-1,2-Dichloroethene	0.46841	0.40350	0.40350	0.100	13.85694	50.0	Averaged	
Vinyl Acetate	1.25019	1.06713	1.06713	0.010	14.64280	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061712

RunID VOA6_440138

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID X062830.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date :45
ICAL Date(s) 15-JUN-2023 15-JUN-2023
ICAL Times :15 14:45
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,1-Dichloroethane	0.84382	0.69270	0.69270	0.200	17.90853	50.0	Averaged	
2-Butanone	0.16455	0.13350	0.13350	0.100	18.86614	50.0	Averaged	
2,2-Dichloropropane	50.0	39.30471	0.52346	0.100	21.39057	50.0	Linear	
cis-1,2-Dichloroethene	0.54016	0.47824	0.47824	0.100	11.46349	50.0	Averaged	
Chloroform	0.90821	0.74578	0.74578	0.200	17.88526	50.0	Averaged	
Bromochloromethane	0.28784	0.25186	0.25186	0.100	12.49839	50.0	Averaged	
30 Dibromofluoromethane	50.0	45.74673	0.40882	0.100	8.50654	50.0	Linear	
1,1,1-Trichloroethane	0.73406	0.60818	0.60818	0.100	17.14817	50.0	Averaged	
1,1-Dichloropropene	0.41897	0.37102	0.37102	0.100	11.44401	50.0	Averaged	
1,2-Dichloroethane	0.41982	0.34804	0.34804	0.100	17.09598	50.0	Averaged	
Carbon Tetrachloride	0.40293	0.35127	0.35127	0.100	12.82191	50.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	39.70743	0.38446	0.100	20.58514	50.0	Linear	
Benzene	1.28613	1.16974	1.16974	0.500	9.04989	50.0	Averaged	
Trichloroethene	0.35461	0.34081	0.34081	0.200	3.89298	50.0	Averaged	
Bromodichloromethane	0.45495	0.39071	0.39071	0.200	14.12080	50.0	Averaged	
2-Chloroethylvinyl ether	0.12311	0.10384	0.10384	0.001	15.65417	50.0	Averaged	
1,2-Dichloropropane	0.33759	0.30189	0.30189	0.100	10.57282	50.0	Averaged	
Dibromomethane	0.21192	0.18996	0.18996	0.100	10.36236	50.0	Averaged	
4-Methyl-2-Pentanone	0.32299	0.26421	0.26421	0.100	18.19786	50.0	Averaged	
cis-1,3-Dichloropropene	0.56095	0.49308	0.49308	0.200	12.09801	50.0	Averaged	
48 Toluene-d8	1.26411	1.18556	1.18556	0.100	6.21393	50.0	Averaged	
Toluene	1.46787	1.36975	1.36975	0.400	6.68440	50.0	Averaged	
trans-1,3-Dichloropropene	0.46933	0.41290	0.41290	0.100	12.02402	50.0	Averaged	
2-Hexanone	0.21575	0.17948	0.17948	0.100	16.81054	50.0	Averaged	
1,1,2-Trichloroethane	0.28597	0.25589	0.25589	0.100	10.51721	50.0	Averaged	
1,3-Dichloropropane	0.57821	0.51644	0.51644	0.100	10.68226	50.0	Averaged	
Dibromochloromethane	0.40528	0.37476	0.37476	0.100	7.53226	50.0	Averaged	
Tetrachloroethene	0.30185	0.28783	0.28783	0.200	4.64632	50.0	Averaged	
1,2-Dibromoethane	0.36552	0.33482	0.33482	0.100	8.39834	50.0	Averaged	
1-Chlorohexane	0.30406	0.25621	0.25621	0.100	15.73898	50.0	Averaged	
Chlorobenzene	1.00438	0.94450	0.94450	0.500	5.96158	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.37452	0.34783	0.34783	0.100	7.12672	50.0	Averaged	
Ethylbenzene	0.51747	0.48096	0.48096	0.100	7.05598	50.0	Averaged	
m,p-Xylenes	0.63815	0.60782	0.60782	0.100	4.75291	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061712

RunID VOA6_440138

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID X062830.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date :45
ICAL Date(s) 15-JUN-2023 15-JUN-2023
ICAL Times :15 14:45
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
o-Xylene	0.63677	0.58357	0.58357	0.300	8.35523	50.0	Averaged	
Styrene	1.04887	1.01550	1.01550	0.300	3.18096	50.0	Averaged	
Bromoform	0.28254	0.26749	0.26749	0.100	5.32792	50.0	Averaged	
Isopropylbenzene	1.57393	1.45099	1.45099	0.100	7.81126	50.0	Averaged	
1,1,2,2-Tetrachloroethane	0.87919	0.74663	0.74663	0.300	15.07735	50.0	Averaged	
1,2,3-Trichloropropane	0.63044	0.52853	0.52853	0.100	16.16436	50.0	Averaged	
n-Propylbenzene	3.29025	2.91018	2.91018	0.100	11.55147	50.0	Averaged	
Bromobenzene	0.81493	0.76286	0.76286	0.100	6.39058	50.0	Averaged	
1,3,5-Trimethylbenzene	2.41429	2.18522	2.18522	0.100	9.48818	50.0	Averaged	
2-Chlorotoluene	2.08941	1.80525	1.80525	0.100	13.60004	50.0	Averaged	
4-Chlorotoluene	2.33060	2.07514	2.07514	0.100	10.96134	50.0	Averaged	
tert-Butylbenzene	2.01139	1.83336	1.83336	0.100	8.85072	50.0	Averaged	
1,2,4-Trimethylbenzene	2.43582	2.19914	2.19914	0.100	9.71670	50.0	Averaged	
sec-Butylbenzene	2.83678	2.55315	2.55315	0.100	9.99828	50.0	Averaged	
p-Isopropyltoluene	2.48362	2.28499	2.28499	0.100	7.99758	50.0	Averaged	
1,3-Dichlorobenzene	1.45104	1.35371	1.35371	0.600	6.70764	50.0	Averaged	
1,4-Dichlorobenzene	1.55314	1.41135	1.41135	0.400	9.12941	50.0	Averaged	
n-Butylbenzene	2.11532	1.94002	1.94002	0.500	8.28747	50.0	Averaged	
1,2-Dichlorobenzene	1.43975	1.35623	1.35623	0.400	5.80122	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	48.37693	0.13880	0.040	3.24613	50.0	Linear	
1,2,4-Trichlorobenzene	1.00154	0.96927	0.96927	0.100	3.22214	50.0	Averaged	
Hexachlorobutadiene	0.44956	0.43540	0.43540	0.100	3.14995	50.0	Averaged	
Naphthalene	2.25463	2.18848	2.18848	0.200	2.93412	50.0	Averaged	
1,2,3-Trichlorobenzene	0.92158	0.91258	0.91258	0.010	0.97696	50.0	Averaged	
94 1,2-Dichloroethylene (total	0.50428	0.44087	0.44087	0.200	12.57508	50.0	Averaged	
95 Xylenes (total)	0.59807	0.56594	0.56594	0.100	5.37124	50.0	Averaged	
Cyclohexane	0.63736	0.54780	0.54780	0.100	14.05147	50.0	Averaged	
Freon TF	50.0	47.58029	0.33070	0.100	4.83942	50.0	Quadratic	
Methylcyclohexane	0.69881	0.66184	0.66184	0.100	5.29061	50.0	Averaged	
Methyl Acetate	0.29595	0.23453	0.23453	0.100	20.75369	50.0	Averaged	
Tert-butyl alcohol	0.05134	0.03869	0.03869	0.005	24.64237	50.0	Averaged	
Isopropyl alcohol	0.02834	0.02130	0.02130	0.005	24.85396	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061712

RunID VOA9_440247

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U062903.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date :09
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times :15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dichlorodifluoromethane	50.0	47.43151	0.43820	0.100	5.13697	20.0	Linear	
Chloromethane	50.0	41.84390	0.63432	0.100	16.31220	20.0	Linear	
Vinyl Chloride	0.52887	0.50931	0.50931	0.100	3.69818	20.0	Averaged	
Bromomethane	50.0	56.32131	0.30511	0.100	-12.64261	20.0	Linear	
Chloroethane	0.35626	0.34365	0.34365	0.100	3.54130	20.0	Averaged	
Trichlorofluoromethane	0.60742	0.65934	0.65934	0.100	-8.54734	20.0	Averaged	
Acrolein	0.02654	0.02584	0.02584	0.010	2.64952	20.0	Averaged	
Acetone	100	103	0.17591	0.100	-2.57648	20.0	Linear	
1,1-Dichloroethene	0.37953	0.38426	0.38426	0.100	-1.24685	20.0	Averaged	
Iodomethane	100	132	0.41365	0.100	-32.11472	20.0	Quadratic	*
Acrylonitrile	0.18542	0.18239	0.18239	0.050	1.63795	20.0	Averaged	
Methylene Chloride	50.0	53.17212	0.48432	0.100	-6.34423	20.0	Linear	
Methyl tert-butyl ether	1.16385	1.22145	1.22145	0.100	-4.94944	20.0	Averaged	
Carbon Disulfide	1.01461	1.16039	1.16039	0.100	-14.36765	20.0	Averaged	
trans-1,2-Dichloroethene	0.41275	0.42646	0.42646	0.100	-3.32170	20.0	Averaged	
Vinyl Acetate	1.25818	1.34147	1.34147	0.010	-6.61946	20.0	Averaged	
1,1-Dichloroethane	0.78439	0.75108	0.75108	0.200	4.24663	20.0	Averaged	
2-Butanone	0.22797	0.21475	0.21475	0.100	5.79828	20.0	Averaged	
2,2-Dichloropropane	50.0	55.63364	0.57751	0.100	-11.26728	20.0	Linear	
cis-1,2-Dichloroethene	0.49378	0.49760	0.49760	0.100	-0.77325	20.0	Averaged	
Chloroform	0.81639	0.81939	0.81939	0.200	-0.36758	20.0	Averaged	
Bromochloromethane	0.27621	0.27582	0.27582	0.100	0.13959	20.0	Averaged	
30 Dibromofluoromethane	50.0	48.74765	0.40924	0.100	2.50471	20.0	Linear	
1,1,1-Trichloroethane	0.62223	0.64024	0.64024	0.100	-2.89468	20.0	Averaged	
1,1-Dichloropropene	0.36644	0.39071	0.39071	0.100	-6.62437	20.0	Averaged	
1,2-Dichloroethane	0.43276	0.46702	0.46702	0.100	-7.91699	20.0	Averaged	
Carbon Tetrachloride	0.33660	0.37989	0.37989	0.100	-12.86121	20.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	48.83371	0.44367	0.100	2.33258	20.0	Linear	
Benzene	1.20483	1.25432	1.25432	0.500	-4.10802	20.0	Averaged	
Trichloroethene	0.34921	0.35424	0.35424	0.200	-1.44093	20.0	Averaged	
Bromodichloromethane	0.37583	0.42424	0.42424	0.200	-12.87998	20.0	Averaged	
2-Chloroethylvinyl ether	0.00909	0.00412	0.00412	0.001	54.70664	20.0	Averaged	*
1,2-Dichloropropane	0.32169	0.33527	0.33527	0.100	-4.22263	20.0	Averaged	
Dibromomethane	0.20554	0.22408	0.22408	0.100	-9.02047	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061712

RunID VOA9_440247

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U062903.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date :09
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times :15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
4-Methyl-2-Pentanone	0.36411	0.36190	0.36190	0.100	0.60503	20.0	Averaged	
cis-1,3-Dichloropropene	50.0	51.46896	0.51890	0.200	-2.93792	20.0	Linear	
48 Toluene-d8	1.13164	1.07913	1.07913	0.100	4.64085	20.0	Averaged	
Toluene	1.35612	1.39671	1.39671	0.400	-2.99312	20.0	Averaged	
trans-1,3-Dichloropropene	50.0	51.75379	0.43807	0.100	-3.50758	20.0	Linear	
2-Hexanone	0.25357	0.23928	0.23928	0.100	5.63298	20.0	Averaged	
1,1,2-Trichloroethane	0.28217	0.27786	0.27786	0.100	1.52784	20.0	Averaged	
1,3-Dichloropropane	0.57650	0.58841	0.58841	0.100	-2.06542	20.0	Averaged	
Dibromochloromethane	0.33480	0.38492	0.38492	0.100	-14.97207	20.0	Averaged	
Tetrachloroethene	0.33041	0.33232	0.33232	0.200	-0.58072	20.0	Averaged	
1,2-Dibromoethane	0.34808	0.35969	0.35969	0.100	-3.33675	20.0	Averaged	
1-Chlorohexane	0.25674	0.26927	0.26927	0.100	-4.87822	20.0	Averaged	
Chlorobenzene	0.96786	0.97988	0.97988	0.500	-1.24196	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.33265	0.36321	0.36321	0.100	-9.18475	20.0	Averaged	
Ethylbenzene	0.45047	0.46729	0.46729	0.100	-3.73313	20.0	Averaged	
m,p-Xylenes	0.53296	0.57699	0.57699	0.100	-8.26007	20.0	Averaged	
o-Xylene	0.52651	0.56923	0.56923	0.300	-8.11408	20.0	Averaged	
Styrene	0.83556	0.96145	0.96145	0.300	-15.06603	20.0	Averaged	
Bromoform	0.22599	0.26011	0.26011	0.100	-15.09768	20.0	Averaged	
Isopropylbenzene	1.26463	1.35071	1.35071	0.100	-6.80701	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.94051	0.89819	0.89819	0.300	4.49976	20.0	Averaged	
1,2,3-Trichloropropane	0.82740	0.84328	0.84328	0.100	-1.91888	20.0	Averaged	
n-Propylbenzene	2.62266	2.77707	2.77707	0.100	-5.88749	20.0	Averaged	
Bromobenzene	0.84363	0.84807	0.84807	0.100	-0.52524	20.0	Averaged	
1,3,5-Trimethylbenzene	1.79927	1.85919	1.85919	0.100	-3.33034	20.0	Averaged	
2-Chlorotoluene	1.84364	1.84061	1.84061	0.100	0.16449	20.0	Averaged	
4-Chlorotoluene	2.04071	2.08711	2.08711	0.100	-2.27365	20.0	Averaged	
tert-Butylbenzene	1.76718	1.80392	1.80392	0.100	-2.07933	20.0	Averaged	
1,2,4-Trimethylbenzene	1.88261	1.92475	1.92475	0.100	-2.23836	20.0	Averaged	
sec-Butylbenzene	2.24110	2.29709	2.29709	0.100	-2.49834	20.0	Averaged	
p-Isopropyltoluene	1.87752	1.97009	1.97009	0.100	-4.93042	20.0	Averaged	
1,3-Dichlorobenzene	1.43286	1.41056	1.41056	0.600	1.55653	20.0	Averaged	
1,4-Dichlorobenzene	1.52773	1.46186	1.46186	0.400	4.31145	20.0	Averaged	
n-Butylbenzene	1.60731	1.63362	1.63362	0.500	-1.63725	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061712

RunID VOA9_440247

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U062903.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date :09
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times :15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,2-Dichlorobenzene	1.43664	1.39356	1.39356	0.400	2.99907	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	0.13724	0.13216	0.13216	0.050	3.70399	20.0	Averaged	
1,2,4-Trichlorobenzene	0.98816	0.95503	0.95503	0.200	3.35253	20.0	Averaged	
Hexachlorobutadiene	0.39906	0.40786	0.40786	0.100	-2.20512	20.0	Averaged	
Naphthalene	2.29538	2.33648	2.33648	0.200	-1.79044	20.0	Averaged	
1,2,3-Trichlorobenzene	0.96603	0.91230	0.91230	0.100	5.56263	20.0	Averaged	
94 1,2-Dichloroethylene (total	0.45327	0.46203	0.46203	0.200	-1.93357	20.0	Averaged	
95 Xylenes (total)	0.50452	0.56644	0.56644	0.100	-12.27256	20.0	Averaged	
1,4-Dioxane	0.00993	0.00666	0.00666	0.001	32.89864	20.0	Averaged	*
Cyclohexane	50.0	46.11382	0.56559	0.100	7.77236	20.0	Quadratic	
Freon TF	0.33580	0.36466	0.36466	0.100	-8.59436	20.0	Averaged	
1,3-Butadiene	0.47352	0.44186	0.44186	0.100	6.68652	20.0	Averaged	
Methylcyclohexane	0.69360	0.71987	0.71987	0.100	-3.78720	20.0	Averaged	
Methyl Acetate	0.42100	0.40036	0.40036	0.100	4.90443	20.0	Averaged	
Tert-butyl alcohol	1000	1071	0.04945	0.005	-7.06494	20.0	Linear	
Isopropyl alcohol	0.03269	0.03236	0.03236	0.005	1.00578	20.0	Averaged	
trans-1,4-Dichloro-2-butene	0.05757	0.07492	0.07492	0.050	-30.13962	20.0	Averaged	*
Isobutyl Alcohol	0.06496	0.06928	0.06928	0.005	-6.64910	20.0	Averaged	
Acetonitrile	0.05413	0.05409	0.05409	0.005	0.08825	20.0	Averaged	
Allyl Chloride	1.29812	1.24695	1.24695	0.100	3.94172	20.0	Averaged	
Methacrylonitrile	0.29541	0.29881	0.29881	0.100	-1.14990	20.0	Averaged	
Methyl Methacrylate	0.42991	0.45033	0.45033	0.100	-4.75041	20.0	Averaged	
Propionitrile	0.07225	0.06899	0.06899	0.010	4.52002	20.0	Averaged	
Methyl Acrylate	0.52880	0.55963	0.55963	0.100	-5.83051	20.0	Averaged	
Ethyl Methacrylate	0.43830	0.47128	0.47128	0.100	-7.52596	20.0	Averaged	
1,2,3-Trimethylbenzene	1.92195	1.90566	1.90566	0.100	0.84718	20.0	Averaged	
Diisopropyl ether	1.39419	1.42745	1.42745	0.100	-2.38586	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061712

RunID VOA9_440247

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U062931.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date :53
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times :15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dichlorodifluoromethane	50.0	34.66363	0.32005	0.100	30.67274	50.0	Linear	
Chloromethane	50.0	40.18030	0.60989	0.100	19.63940	50.0	Linear	
Vinyl Chloride	0.52887	0.45348	0.45348	0.100	14.25589	50.0	Averaged	
Bromomethane	50.0	55.93067	0.30306	0.100	-11.86134	50.0	Linear	
Chloroethane	0.35626	0.32606	0.32606	0.100	8.47820	50.0	Averaged	
Trichlorofluoromethane	0.60742	0.60622	0.60622	0.100	0.19675	50.0	Averaged	
Acrolein	0.02654	0.02681	0.02681	0.010	-1.02826	50.0	Averaged	
Acetone	100	96.65182	0.16628	0.100	3.34818	50.0	Linear	
1,1-Dichloroethene	0.37953	0.35746	0.35746	0.100	5.81406	50.0	Averaged	
Iodomethane	100	98.06657	0.29221	0.100	1.93343	50.0	Quadratic	
Acrylonitrile	0.18542	0.19748	0.19748	0.050	-6.49955	50.0	Averaged	
Methylene Chloride	50.0	51.21665	0.46685	0.100	-2.43330	50.0	Linear	
Methyl tert-butyl ether	1.16385	1.25295	1.25295	0.100	-7.65587	50.0	Averaged	
Carbon Disulfide	1.01461	1.07937	1.07937	0.100	-6.38227	50.0	Averaged	
trans-1,2-Dichloroethene	0.41275	0.40722	0.40722	0.100	1.33829	50.0	Averaged	
Vinyl Acetate	1.25818	1.22432	1.22432	0.010	2.69121	50.0	Averaged	
1,1-Dichloroethane	0.78439	0.73760	0.73760	0.200	5.96550	50.0	Averaged	
2-Butanone	0.22797	0.20905	0.20905	0.100	8.29872	50.0	Averaged	
2,2-Dichloropropane	50.0	44.53316	0.46145	0.100	10.93368	50.0	Linear	
cis-1,2-Dichloroethene	0.49378	0.48148	0.48148	0.100	2.49210	50.0	Averaged	
Chloroform	0.81639	0.79704	0.79704	0.200	2.36980	50.0	Averaged	
Bromochloromethane	0.27621	0.26206	0.26206	0.100	5.12382	50.0	Averaged	
30 Dibromofluoromethane	50.0	53.50075	0.44888	0.100	-7.00150	50.0	Linear	
1,1,1-Trichloroethane	0.62223	0.61606	0.61606	0.100	0.99095	50.0	Averaged	
1,1-Dichloropropene	0.36644	0.35105	0.35105	0.100	4.19800	50.0	Averaged	
1,2-Dichloroethane	0.43276	0.44997	0.44997	0.100	-3.97731	50.0	Averaged	
Carbon Tetrachloride	0.33660	0.34734	0.34734	0.100	-3.19290	50.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	53.08374	0.48175	0.100	-6.16747	50.0	Linear	
Benzene	1.20483	1.16914	1.16914	0.500	2.96224	50.0	Averaged	
Trichloroethene	0.34921	0.33843	0.33843	0.200	3.08629	50.0	Averaged	
Bromodichloromethane	0.37583	0.39688	0.39688	0.200	-5.60168	50.0	Averaged	
2-Chloroethylvinyl ether	0.00909	0.00209	0.00209	0.001	77.04020	50.0	Averaged	*
1,2-Dichloropropane	0.32169	0.31271	0.31271	0.100	2.79162	50.0	Averaged	
Dibromomethane	0.20554	0.20800	0.20800	0.100	-1.19749	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061712

RunID VOA9_440247

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U062931.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date :53
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times :15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
4-Methyl-2-Pentanone	0.36411	0.33895	0.33895	0.100	6.90792	50.0	Averaged	
cis-1,3-Dichloropropene	50.0	45.56389	0.45707	0.200	8.87222	50.0	Linear	
48 Toluene-d8	1.13164	1.13698	1.13698	0.100	-0.47172	50.0	Averaged	
Toluene	1.35612	1.31711	1.31711	0.400	2.87670	50.0	Averaged	
trans-1,3-Dichloropropene	50.0	45.69877	0.38474	0.100	8.60246	50.0	Linear	
2-Hexanone	0.25357	0.21752	0.21752	0.100	14.21423	50.0	Averaged	
1,1,2-Trichloroethane	0.28217	0.26151	0.26151	0.100	7.32230	50.0	Averaged	
1,3-Dichloropropane	0.57650	0.55955	0.55955	0.100	2.94035	50.0	Averaged	
Dibromochloromethane	0.33480	0.35840	0.35840	0.100	-7.05079	50.0	Averaged	
Tetrachloroethene	0.33041	0.30436	0.30436	0.200	7.88365	50.0	Averaged	
1,2-Dibromoethane	0.34808	0.33948	0.33948	0.100	2.47108	50.0	Averaged	
1-Chlorohexane	0.25674	0.23921	0.23921	0.100	6.83053	50.0	Averaged	
Chlorobenzene	0.96786	0.93200	0.93200	0.500	3.70514	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.33265	0.34108	0.34108	0.100	-2.53370	50.0	Averaged	
Ethylbenzene	0.45047	0.43899	0.43899	0.100	2.55022	50.0	Averaged	
m,p-Xylenes	0.53296	0.55080	0.55080	0.100	-3.34722	50.0	Averaged	
o-Xylene	0.52651	0.54522	0.54522	0.300	-3.55322	50.0	Averaged	
Styrene	0.83556	0.89849	0.89849	0.300	-7.53165	50.0	Averaged	
Bromoform	0.22599	0.25053	0.25053	0.100	-10.85962	50.0	Averaged	
Isopropylbenzene	1.26463	1.27439	1.27439	0.100	-0.77210	50.0	Averaged	
1,1,2,2-Tetrachloroethane	0.94051	0.84396	0.84396	0.300	10.26556	50.0	Averaged	
1,2,3-Trichloropropane	0.82740	0.76963	0.76963	0.100	6.98264	50.0	Averaged	
n-Propylbenzene	2.62266	2.57780	2.57780	0.100	1.71033	50.0	Averaged	
Bromobenzene	0.84363	0.80774	0.80774	0.100	4.25510	50.0	Averaged	
1,3,5-Trimethylbenzene	1.79927	1.76244	1.76244	0.100	2.04693	50.0	Averaged	
2-Chlorotoluene	1.84364	1.76309	1.76309	0.100	4.36925	50.0	Averaged	
4-Chlorotoluene	2.04071	2.00979	2.00979	0.100	1.51532	50.0	Averaged	
tert-Butylbenzene	1.76718	1.69332	1.69332	0.100	4.17958	50.0	Averaged	
1,2,4-Trimethylbenzene	1.88261	1.76024	1.76024	0.100	6.49996	50.0	Averaged	
sec-Butylbenzene	2.24110	2.10548	2.10548	0.100	6.05146	50.0	Averaged	
p-Isopropyltoluene	1.87752	1.75940	1.75940	0.100	6.29108	50.0	Averaged	
1,3-Dichlorobenzene	1.43286	1.34632	1.34632	0.600	6.03997	50.0	Averaged	
1,4-Dichlorobenzene	1.52773	1.38436	1.38436	0.400	9.38463	50.0	Averaged	
n-Butylbenzene	1.60731	1.42684	1.42684	0.500	11.22812	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061712

RunID VOA9_440247

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U062931.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date :53
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times :15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,2-Dichlorobenzene	1.43664	1.34617	1.34617	0.400	6.29765	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	0.13724	0.12577	0.12577	0.050	8.35860	50.0	Averaged	
1,2,4-Trichlorobenzene	0.98816	0.88125	0.88125	0.200	10.81985	50.0	Averaged	
Hexachlorobutadiene	0.39906	0.34034	0.34034	0.100	14.71573	50.0	Averaged	
Naphthalene	2.29538	2.07705	2.07705	0.200	9.51162	50.0	Averaged	
1,2,3-Trichlorobenzene	0.96603	0.85863	0.85863	0.100	11.11832	50.0	Averaged	
94 1,2-Dichloroethylene (total	0.45327	0.44435	0.44435	0.200	1.96677	50.0	Averaged	
95 Xylenes (total)	0.50452	0.54195	0.54195	0.100	-7.41935	50.0	Averaged	
1,4-Dioxane	0.00993	0.00641	0.00641	0.001	35.39525	50.0	Averaged	
Cyclohexane	50.0	40.13527	0.49040	0.100	19.72946	50.0	Quadratic	
Freon TF	0.33580	0.32733	0.32733	0.100	2.52238	50.0	Averaged	
1,3-Butadiene	0.47352	0.39962	0.39962	0.100	15.60555	50.0	Averaged	
Methylcyclohexane	0.69360	0.71234	0.71234	0.100	-2.70223	50.0	Averaged	
Methyl Acetate	0.42100	0.41449	0.41449	0.100	1.54683	50.0	Averaged	
Tert-butyl alcohol	1000	1041	0.04807	0.005	-4.07203	50.0	Linear	
Isopropyl alcohol	0.03269	0.03135	0.03135	0.005	4.09263	50.0	Averaged	
trans-1,4-Dichloro-2-butene	0.05757	0.06106	0.06106	0.050	-6.05795	50.0	Averaged	
Isobutyl Alcohol	0.06496	0.06867	0.06867	0.005	-5.70784	50.0	Averaged	
Acetonitrile	0.05413	0.05486	0.05486	0.005	-1.34811	50.0	Averaged	
Allyl Chloride	1.29812	1.27922	1.27922	0.100	1.45631	50.0	Averaged	
Methacrylonitrile	0.29541	0.29676	0.29676	0.100	-0.45758	50.0	Averaged	
Methyl Methacrylate	0.42991	0.44609	0.44609	0.100	-3.76292	50.0	Averaged	
Propionitrile	0.07225	0.07246	0.07246	0.010	-0.29458	50.0	Averaged	
Methyl Acrylate	0.52880	0.57838	0.57838	0.100	-9.37711	50.0	Averaged	
Ethyl Methacrylate	0.43830	0.45856	0.45856	0.100	-4.62415	50.0	Averaged	
1,2,3-Trimethylbenzene	1.92195	1.94044	1.94044	0.100	-0.96199	50.0	Averaged	
Diisopropyl ether	1.39419	1.48306	1.48306	0.100	-6.37463	50.0	Averaged	

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Form 8

Internal Standard Area and RT Summary

Volatiles by EPA 8260

Workorder

HS23061712

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
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Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061712

Volatiles by EPA 8260

VOA6_439909		Pentafluorobenzene				1,4-Difluorobenzene				Chlorobenzene				1,4-Dichlorobenze			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	X062603.D	448462	#	4.18	#	675768	#	4.97	#	643218	#	7.67	#	361290	#	9.66	#
HS23061712-01	X062625.D	452873		4.18		643124		4.97		567008		7.67		299191		9.66	
HS23061712-03	X062609.D	487363		4.18		693362		4.97		617751		7.67		324964		9.66	
HS23061712-04	X062610.D	473750		4.18		669752		4.97		593036		7.67		300544		9.66	
HS23061712-06	X062624.D	482300		4.18		674502		4.97		606266		7.67		311827		9.66	
HS23061712-07	X062629.D	469537		4.18		658622		4.97		594350		7.67		311935		9.66	
HS23061712-07	X062628.D	448266		4.18		634347		4.97		565484		7.67		302387		9.66	
HS23061712-08	X062627.D	474194		4.18		670530		4.97		600181		7.67		321045		9.66	
HS23061712-08	X062626.D	462702		4.18		652605		4.97		573118		7.67		300521		9.66	
HS23061712-08MS	X062630.D	477071		4.18		675566		4.97		610400		7.67		339896		9.66	
HS23061712-08MSD	X062631.D	481991		4.18		682531		4.97		631008		7.67		359655		9.66	
HS23061712-09	X062615.D	472835		4.18		669065		4.97		602706		7.67		318952		9.66	
VBLKW-230626	X062607.D	478836		4.18		682036		4.97		618357		7.67		329847		9.66	
VLCSW-230626	X062605.D	460514		4.18		687751		4.97		645405		7.67		366585		9.66	
MS-ZZZZZZMS	X062611.D	478875		4.18		680173		4.97		621892		7.67		354966		9.66	
ZZZZZZMSD	X062612.D	486549		4.18		689290		4.97		621354		7.67		343257		9.66	

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061712**

Volatiles by EPA 8260

VOA6_440138		Pentafluorobenzene				1,4-Difluorobenzene				Chlorobenzene				1,4-Dichlorobenze			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	X062803.D	445170	#	4.18	#	652801	#	4.97	#	614999	#	7.67	#	353668	#	9.66	#
HS23061712-01	X062813.D	451415		4.18		635728		4.97		558565		7.67		292924		9.66	
HS23061712-02	X062809.D	444707		4.18		620400		4.97		545755		7.67		280595		9.66	
HS23061712-05	X062810.D	443113		4.19		617205		4.97		562195		7.67		315305		9.66	
VBLKW-230628	X062807.D	460197		4.19		633322		4.97		567901		7.67		290927		9.66	
VLCSW-230628	X062805.D	436174		4.18		646299		4.97		604485		7.67		349101		9.66	
MS-ZZZZZZMS	X062811.D	461005		4.18		652167		4.97		590067		7.67		320069		9.66	
ZZZZZZMSD	X062812.D	454651		4.18		639658		4.97		580351		7.67		328228		9.66	

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061712

Volatiles by EPA 8260

VOA9_440247		Pentafluorobenzene				1,4-Difluorobenzene				Chlorobenzene				1,4-Dichlorobenze			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	U062903.D	567832	#	4.82	#	810480	#	5.55	#	799242	#	8.19	#	422195	#	10.17	#
HS23061712-05	U062916.D	635423		4.82		851989		5.55		778952		8.19		388313		10.17	
VBLKW-230629	U062907.D	641704		4.82		867792		5.55		788040		8.19		391345		10.17	
VLCSW-230629	U062905.D	545168		4.81		800867		5.55		776333		8.19		409506		10.17	
MS-ZZZZZZMS	U062913.D	636356		4.82		858718		5.55		820502		8.19		444652		10.17	
ZZZZZZMSD	U062914.D	638913		4.82		869876		5.55		811369		8.19		429013		10.17	

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

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Analysis Run Log

Volatiles by EPA 8260

Workorder

HS23061712

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

ALS Environmental–Houston Laboratory

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Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061712

RunID
VOA6-438076

Volatiles by EPA 8260

Run ID VOA6_438076 **Start Date** 06/15/23 **EndDate** 06/15/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
10:54	BFB	TUNE	BFB	X061501.D	06/15/23	1
11:15	VSTD000.25	ICAL1	VSTD000.25	X061502.D	06/15/23	1
11:36	VSTD000.5	ICAL2	VSTD000.5	X061503.D	06/15/23	1
12:18	VSTD001	ICAL3	VSTD001	X061504.D	06/15/23	1
12:39	VSTD002	ICAL4	VSTD002	X061505.D	06/15/23	1
13:00	VSTD005	ICAL5	VSTD005	X061506.D	06/15/23	1
13:21	VSTD020	ICAL6	VSTD020	X061507.D	06/15/23	1
13:42	VSTD050	ICAL7	VSTD050	X061508.D	06/15/23	1
14:03	VSTD100	ICAL8	VSTD100	X061509.D	06/15/23	1
14:24	VSTD150	ICAL9	VSTD150	X061510.D	06/15/23	1
14:45	VSTD200	ICAL	VSTD200	X061511.D	06/15/23	1
15:47	CCV	ICV	CCV	X061514.D	06/15/23	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061712

RunID
VOA6-439909

Volatiles by EPA 8260

Run ID VOA6_439909 **Start Date** 06/26/23 **EndDate** 06/26/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
12:33	BFB	TUNE	BFB	X062601.D	06/26/23	1
13:15	CCV	CCV	CCV	X062603.D	06/26/23	1
13:36	CCB	CCB	CCB	X062604.D	06/26/23	1
13:57	VLCSW-230626	LCS	VLCSW-230626	X062605.D	06/26/23	1
14:39	VBLKW-230626	MBLK	VBLKW-230626	X062607.D	06/26/23	1
15:00	HS23061707-01	SAMP	ZZZZZZZZZZ	X062608.D	06/26/23	1
15:21	HS23061712-03	SAMP	18CPTMW10DW_0622	X062609.D	06/26/23	1
15:42	HS23061712-04	SAMP	18CPTMW10DW_0622	X062610.D	06/26/23	1
16:04	HS23061707-01MS	MS	ZZZZZZMS	X062611.D	06/26/23	1
16:25	HS23061707-01MSD	MSD	ZZZZZZMSD	X062612.D	06/26/23	1
17:07	HS23061707-11	SAMP	ZZZZZZZZZZ	X062614.D	06/26/23	1
17:28	HS23061712-09	SAMP	Trip Blank	X062615.D	06/26/23	1
17:49	HS23061707-02	SAMP	ZZZZZZZZZZ	X062616.D	06/26/23	1
18:10	HS23061707-03	SAMP	ZZZZZZZZZZ	X062617.D	06/26/23	1
18:31	HS23061707-04	SAMP	ZZZZZZZZZZ	X062618.D	06/26/23	1
18:52	HS23061707-06	SAMP	ZZZZZZZZZZ	X062619.D	06/26/23	1
19:13	HS23061707-07	SAMP	ZZZZZZZZZZ	X062620.D	06/26/23	1
19:34	HS23061707-08	SAMP	ZZZZZZZZZZ	X062621.D	06/26/23	1
19:55	HS23061707-09	SAMP	ZZZZZZZZZZ	X062622.D	06/26/23	1
20:16	HS23061707-10	SAMP	ZZZZZZZZZZ	X062623.D	06/26/23	1
20:37	HS23061712-06	SAMP	18CPTMW01DW_0623	X062624.D	06/26/23	1
20:58	HS23061712-01	SAMP	1824DPTMW05_06222	X062625.D	06/26/23	25
21:19	HS23061712-08	SAMP	MW1_062323	X062626.D	06/26/23	20
21:40	HS23061712-08	SAMP	MW1_062323	X062627.D	06/26/23	200
22:01	HS23061712-07	SAMP	MW2_062323	X062628.D	06/26/23	25
22:22	HS23061712-07	SAMP	MW2_062323	X062629.D	06/26/23	250
22:44	HS23061712-08MS	MS	HS23061712-08MS	X062630.D	06/26/23	200
23:05	HS23061712-08MSD	MSD	HS23061712-08MSD	X062631.D	06/26/23	200
23:26	CCV-END	CCV_END	CCV-END	X062632.D	06/26/23	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061712

RunID
VOA6-440138

Volatiles by EPA 8260

Run ID VOA6_440138 **Start Date** 06/28/23 **EndDate** 06/28/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
11:35	BFB	TUNE	BFB	X062801.D	06/28/23	1
12:17	CCV	CCV	CCV	X062803.D	06/28/23	1
12:38	CCB	CCB	CCB	X062804.D	06/28/23	1
12:59	VLCSW-230628	LCS	VLCSW-230628	X062805.D	06/28/23	1
13:41	VBLKW-230628	MBLK	VBLKW-230628	X062807.D	06/28/23	1
14:02	HS23061821-02	SAMP	ZZZZZZZZZZ	X062808.D	06/28/23	1
14:23	HS23061712-02	SAMP	18CPTMW10SW_0622	X062809.D	06/28/23	1
14:44	HS23061712-05	SAMP	18CPTMW01SW_0622	X062810.D	06/28/23	1
15:06	HS23061821-02MS	MS	ZZZZZZMS	X062811.D	06/28/23	1
15:27	HS23061821-02MSD	MSD	ZZZZZZMSD	X062812.D	06/28/23	1
15:48	HS23061712-01	SAMP	1824DPTMW05_06222	X062813.D	06/28/23	100
16:09	HS23061821-11	SAMP	ZZZZZZZZZZ	X062814.D	06/28/23	1
16:30	HS23061812-08	SAMP	ZZZZZZZZZZ	X062815.D	06/28/23	1
16:51	HS23061812-02	SAMP	ZZZZZZZZZZ	X062816.D	06/28/23	1
17:12	HS23061821-03	SAMP	ZZZZZZZZZZ	X062817.D	06/28/23	1
17:33	HS23061821-04	SAMP	ZZZZZZZZZZ	X062818.D	06/28/23	1
17:54	HS23061821-05	SAMP	ZZZZZZZZZZ	X062819.D	06/28/23	1
18:15	HS23061821-07	SAMP	ZZZZZZZZZZ	X062820.D	06/28/23	1
18:36	HS23061821-08	SAMP	ZZZZZZZZZZ	X062821.D	06/28/23	1
18:57	HS23061821-09	SAMP	ZZZZZZZZZZ	X062822.D	06/28/23	1
19:18	HS23061821-10	SAMP	ZZZZZZZZZZ	X062823.D	06/28/23	1
19:39	HS23061812-05	SAMP	ZZZZZZZZZZ	X062824.D	06/28/23	1
20:00	HS23061812-07	SAMP	ZZZZZZZZZZ	X062825.D	06/28/23	10
20:21	HS23061821-01	SAMP	ZZZZZZZZZZ	X062826.D	06/28/23	1
20:42	HS23061821-06	SAMP	ZZZZZZZZZZ	X062827.D	06/28/23	10
21:03	HS23061812-06	SAMP	ZZZZZZZZZZ	X062828.D	06/28/23	5
21:24	HS23061812-06	SAMP	ZZZZZZZZZZ	X062829.D	06/28/23	50
21:45	CCV-END	CCV_END	CCV-END	X062830.D	06/28/23	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061712

RunID
VOA9-437296

Volatiles by EPA 8260

Run ID VOA9_437296 **Start Date** 06/06/23 **EndDate** 06/06/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
10:53	BFB	TUNE	BFB	U060601.D	06/06/23	1
11:15	VSTD000.25	ICAL1	VSTD000.25	U060602.D	06/06/23	1
11:37	VSTD000.5	ICAL2	VSTD000.5	U060603.D	06/06/23	1
13:06	VSTD005	ICAL5	VSTD005	U060606.D	06/06/23	1
13:28	VSTD001	ICAL3	VSTD001	U060607.D	06/06/23	1
13:50	VSTD002	ICAL4	VSTD002	U060608.D	06/06/23	1
14:13	VSTD020	ICAL6	VSTD020	U060609.D	06/06/23	1
14:35	VSTD050	ICAL7	VSTD050	U060610.D	06/06/23	1
14:57	VSTD100	ICAL8	VSTD100	U060611.D	06/06/23	1
15:19	VSTD150	ICAL9	VSTD150	U060612.D	06/06/23	1
15:41	VSTD200	ICAL	VSTD200	U060613.D	06/06/23	1
16:48	CCV	ICV	CCV	U060616.D	06/06/23	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061712

RunID
VOA9-440247

Volatiles by EPA 8260

Run ID VOA9_440247 **Start Date** 06/29/23 **EndDate** 06/29/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
10:25	BFB	TUNE	BFB	U062901.D	06/29/23	1
11:09	CCV	CCV	CCV	U062903.D	06/29/23	1
11:32	CCB	CCB	CCB	U062904.D	06/29/23	1
11:54	VLCSW-230629	LCS	VLCSW-230629	U062905.D	06/29/23	1
12:39	VBLKW-230629	MBLK	VBLKW-230629	U062907.D	06/29/23	1
13:01	HS23061900-02	SAMP	ZZZZZZZZZZ	U062908.D	06/29/23	1
14:03	HS23061825-04	SAMP	ZZZZZZZZZZ	U062910.D	06/29/23	25
14:26	HS23061825-03	SAMP	ZZZZZZZZZZ	U062911.D	06/29/23	50
14:48	HS23061825-03	SAMP	ZZZZZZZZZZ	U062912.D	06/29/23	10
15:10	HS23061825-03MS	MS	ZZZZZZMS	U062913.D	06/29/23	50
15:33	HS23061825-03MSD	MSD	ZZZZZZMSD	U062914.D	06/29/23	50
15:55	HS23061825-09	SAMP	ZZZZZZZZZZ	U062915.D	06/29/23	10
16:18	HS23061712-05	SAMP	18CPTMW01SW_0622	U062916.D	06/29/23	200
16:40	HS23061821-01	SAMP	ZZZZZZZZZZ	U062917.D	06/29/23	5
17:02	HS23061821-06	SAMP	ZZZZZZZZZZ	U062918.D	06/29/23	50
17:25	HS23061812-04	SAMP	ZZZZZZZZZZ	U062919.D	06/29/23	5
18:09	HS23061925-02	SAMP	ZZZZZZZZZZ	U062921.D	06/29/23	50
18:32	HS23061925-03	SAMP	ZZZZZZZZZZ	U062922.D	06/29/23	100
18:54	HS23061925-20	SAMP	ZZZZZZZZZZ	U062923.D	06/29/23	5
19:17	HS23061925-05	SAMP	ZZZZZZZZZZ	U062924.D	06/29/23	25
20:01	HS23061925-07	SAMP	ZZZZZZZZZZ	U062926.D	06/29/23	5
20:46	HS23061925-08	SAMP	ZZZZZZZZZZ	U062928.D	06/29/23	25
21:31	HS23061812-01	SAMP	ZZZZZZZZZZ	U062930.D	06/29/23	1
21:53	CCV-END	CCV_END	CCV-END	U062931.D	06/29/23	1

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Raw Data VOA6 438076

Volatiles by EPA 8260

Workorder

HS23061712

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

ALS Environmental–Houston Laboratory

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Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061501.D Page 1
Report Date: 15-Jun-2023 11:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061501.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 15-JUN-2023 10:54
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\bfb.m
Meth Date : 14-Mar-2023 15:45 Linh.Pham 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: NAHSTW7051

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	
8.691	8.889	(0.000)	95	91504			0.00- 100.00	100.00
8.691	8.889	(0.000)	50	17024			15.00- 40.00	18.60
8.691	8.889	(0.000)	75	44272			30.00- 60.00	48.38
8.691	8.889	(0.000)	96	6495			5.00- 9.00	7.10
8.691	8.889	(0.000)	173	533			0.00- 2.00	0.74
8.691	8.889	(0.000)	174	72064			50.00- 0.00	78.76
8.691	8.889	(0.000)	175	5792			5.00- 9.00	8.04
8.691	8.889	(0.000)	176	71408			95.00- 101.00	99.09
8.691	8.889	(0.000)	177	5330			5.00- 9.00	7.46

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.60
75	30.00 - 60.00% of mass 95	48.38
96	5.00 - 9.00% of mass 95	7.10
173	Less than 2.00% of mass 174	0.58 (0.74)
174	Greater than 50.00% of mass 95	78.76
175	5.00 - 9.00% of mass 174	6.33 (8.04)
176	95.00 - 101.00% of mass 174	78.04 (99.09)
177	5.00 - 9.00% of mass 176	5.82 (7.46)

Data File: X061501.D
Spectrum: Scan 2160 (8.68)
Location of Maximum: 95.00
Number of points: 91

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	732	62.00	3604	92.10	1898	141.90	68
37.10	4114	63.00	2982	93.00	3456	143.00	777
38.10	3477	63.90	141	94.00	11246	143.90	94
39.10	1745	64.80	123	95.00	91504	147.70	291
40.00	1863	66.90	341	96.00	6495	148.80	125
41.10	52	68.00	9377	96.90	224	149.70	51
42.00	50	69.10	8186	104.00	204	151.90	69
42.90	82	70.00	449	104.80	127	152.80	64
44.10	1699	72.00	505	106.00	388	154.80	170
45.00	935	73.00	3827	106.90	76	156.90	174
46.00	105	74.10	13173	109.90	113	157.70	64
47.10	1295	75.10	44272	110.80	95	158.80	71
48.00	358	76.00	3684	115.10	123	169.90	113
49.00	3460	76.90	535	115.90	365	172.80	533
50.10	17024	77.90	379	116.90	632	173.90	72064
51.10	5327	78.90	2312	117.90	274	174.90	5792
52.00	282	80.00	561	118.90	458	175.90	71408
54.80	200	80.90	2487	128.00	326	176.90	5330
56.00	1410	81.90	556	128.80	272	178.00	84
57.00	1995	86.00	91	130.00	338	186.00	171
57.90	156	86.90	3763	135.00	109	191.00	88
59.90	837	87.90	3752	136.90	179	262.00	65
61.00	4172	90.90	273	140.90	1058		

Data File: \\nahstws005\target\chem\voa6.i\x230615.b\x061501.d Page 1

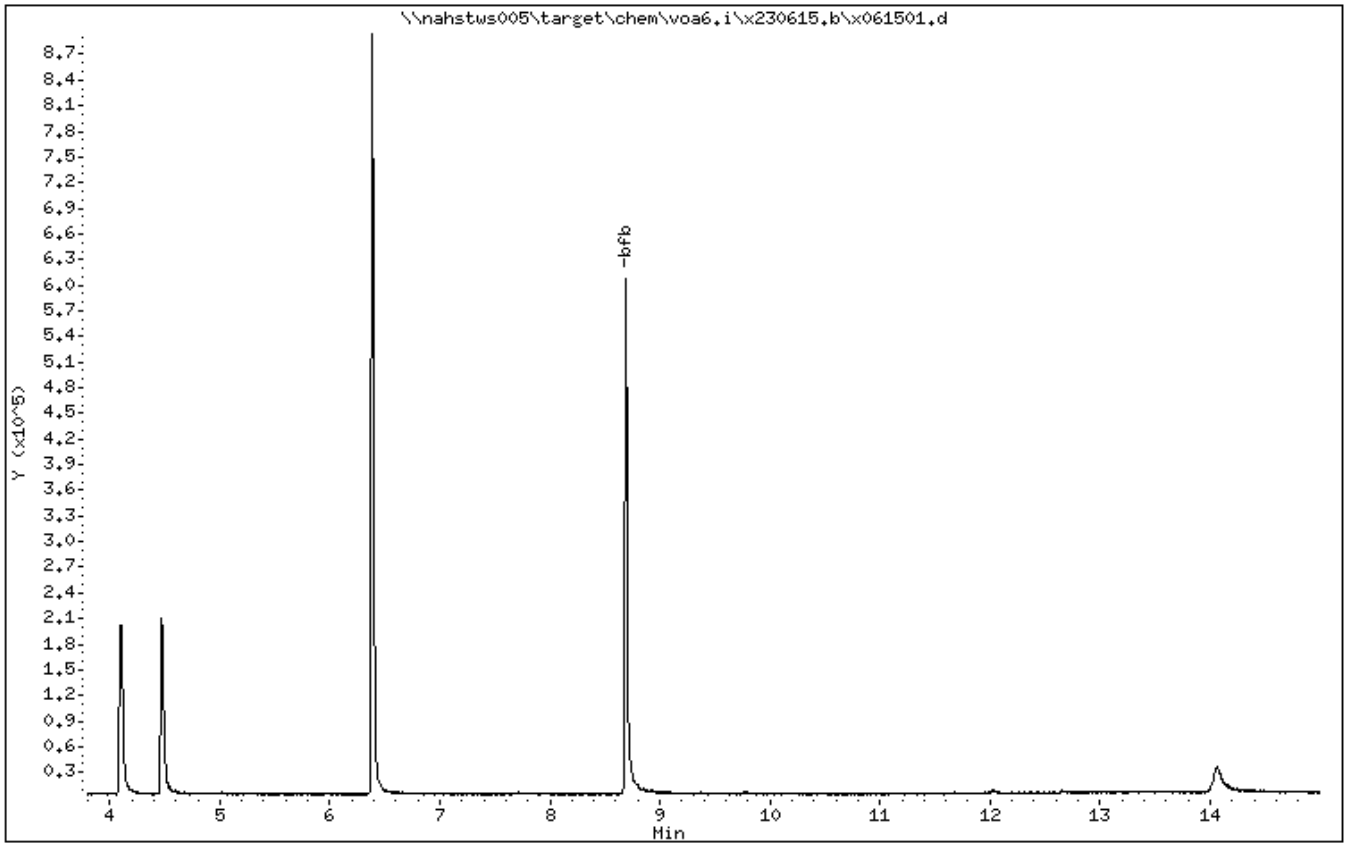
Date : 15-JUN-2023 10:54

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



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Inj Date : 15-JUN-2023 10:54
InstruID : voa6.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061502.D Page 1
Report Date: 20-Jun-2023 18:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061502.D
Lab Smp Id: VSTD000.25 Client Smp ID: VSTD000.25
Inj Date : 15-JUN-2023 11:15
Operator : PC Inst ID: voa6.i
Smp Info : VSTD000.25;VSTD000.25;1;1;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 11:15 Cal File: X061502.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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

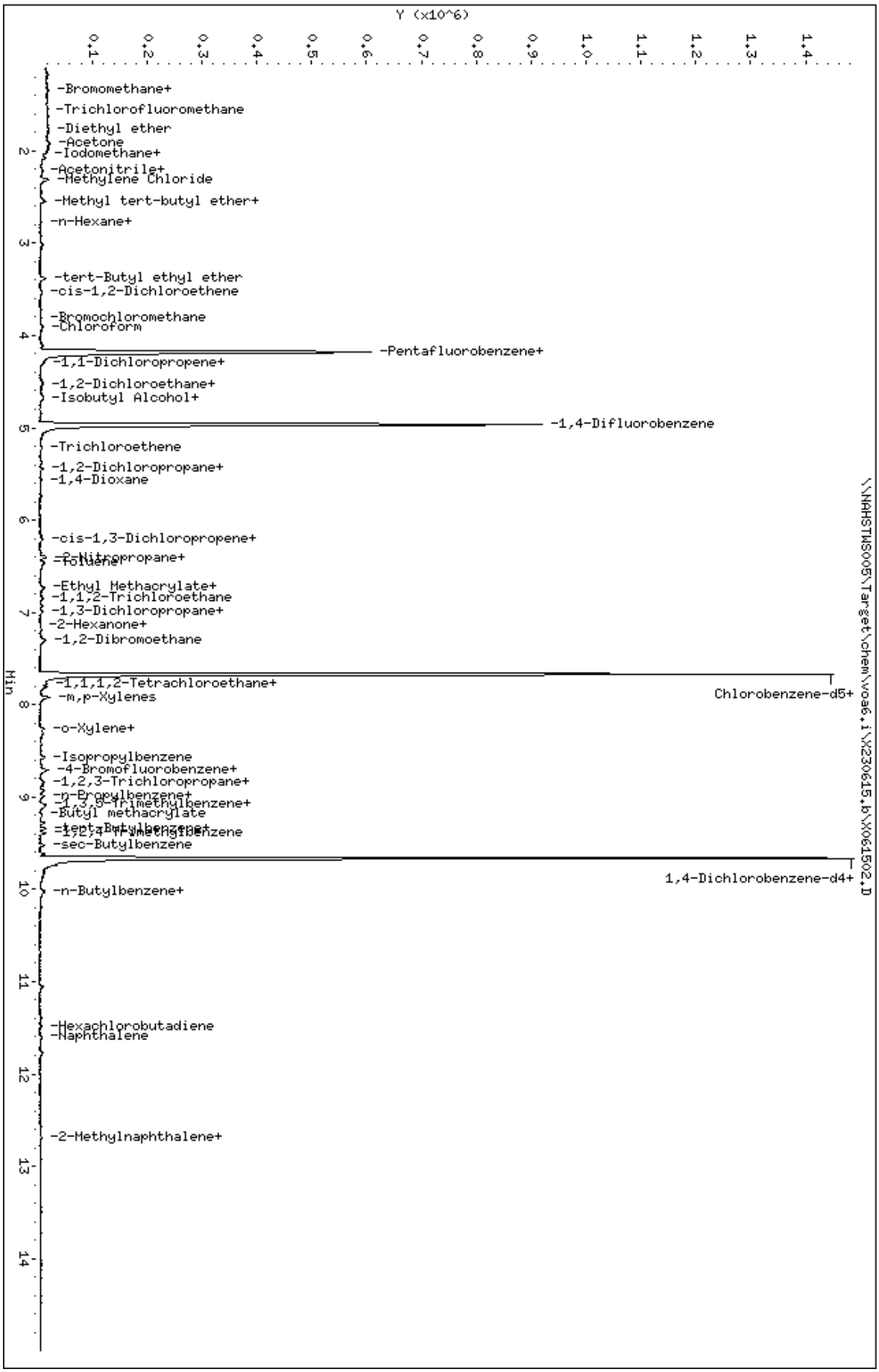
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.181	4.181	(1.000)	494932	50.0000	
	6 Bromomethane	94	1.343	1.344	(0.321)	1702	0.25000	0.57
	10 Acetone	43	1.977	1.973	(0.473)	3259	0.50000	2.26
	13 Acetonitrile	39	2.206	2.202	(0.528)	1535	2.50000	3.19(a)
	15 Iodomethane	142	2.029	2.030	(0.485)	1365	0.50000	2.53(T)
	17 Methylene Chloride	84	2.307	2.307	(0.552)	5303	0.25000	0.96
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	766330	50.0000	
	42 1,2-Dichloropropane	63	5.441	5.437	(1.096)	1532	0.25000	0.29(a)
	43 2-Nitropropane	43	6.352	5.966	(1.519)	2352	0.25000	1.76(Ta)
	45 4-Methyl-2-Pentanone	43	6.352	6.322	(0.828)	2352	0.50000	0.52(a)
	46 cis-1,3-Dichloropropene	75	6.175	6.153	(1.244)	2487	0.25000	0.28(a)
*	47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	699301	50.0000	
$	48 Toluene-d8	98	6.400	6.386	(0.835)	9354	0.25000	0.52(a)
	49 Ethyl Methacrylate	69	6.738	6.708	(1.357)	997	0.25000	0.18(a)
	50 Toluene	91	6.464	6.445	(0.843)	6514	0.25000	0.31(a)
	52 2-Hexanone	43	7.139	7.083	(0.931)	730	0.50000	0.24(Ta)
	53 1,1,2-Trichloroethane	83	6.843	6.835	(0.892)	1411	0.25000	0.35(a)
	54 1,3-Dichloropropane	76	6.993	6.978	(0.912)	3023	0.25000	0.37(a)
	55 Dibromochloromethane	129	7.184	7.173	(0.937)	1999	0.25000	0.35(a)
	56 Tetrachloroethene	164	6.940	6.925	(0.905)	1096	0.25000	0.25(a)
	57 1,2-Dibromoethane	107	7.281	7.259	(0.950)	1818	0.25000	0.35(a)

58 1-Chlorohexane	55	7.716	7.694 (1.554)	1009	0.25000	0.21(a)
59 Chlorobenzene	112	7.697	7.690 (1.004)	4842	0.25000	0.34(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
60	1,1,1,2-Tetrachloroethane	131	7.776	7.773	(1.014)	1838	0.25000	0.35(a)
61	Ethylbenzene	106	7.810	7.799	(1.019)	2138	0.25000	0.29(a)
62	m,p-Xylenes	106	7.922	7.900	(1.033)	4853	0.50000	0.54(a)
63	o-Xylene	106	8.260	8.237	(1.077)	2870	0.25000	0.32(a)
64	Styrene	104	8.301	8.256	(1.083)	4358	0.25000	0.29(a)
67	Isopropylbenzene	105	8.567	8.560	(1.117)	6739	0.25000	0.30(a)
$ 69	4-Bromofluorobenzene	95	8.710	8.687	(1.136)	6918	0.25000	0.48(a)
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	377299	50.0000	
71	1,2,3-Trichloropropane	75	8.878	8.863	(0.919)	1462	0.25000	0.30(a)
73	n-Propylbenzene	91	8.927	8.908	(0.924)	7862	0.25000	0.31(a)
74	Bromobenzene	156	8.822	8.803	(0.913)	2206	0.25000	0.35(a)
75	1,3,5-Trimethylbenzene	105	9.077	9.066	(0.939)	5834	0.25000	0.32(a)
76	2-Chlorotoluene	91	8.991	8.972	(0.931)	6413	0.25000	0.40(a)
77	4-Chlorotoluene	91	9.103	9.070	(0.942)	6038	0.25000	0.34(a)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	4660	0.25000	0.30(a)
79	1,2,4-Trimethylbenzene	105	9.392	9.377	(0.972)	6265	0.25000	0.34(a)
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	6772	0.25000	0.31(a)
82	p-Isopropyltoluene	119	9.658	9.647	(1.000)	5545	0.25000	0.29(a)
83	1,3-Dichlorobenzene	146	9.609	9.602	(0.995)	3815	0.25000	0.34(a)
84	1,4-Dichlorobenzene	146	9.688	9.681	(1.003)	4582	0.25000	0.39(a)
87	n-Butylbenzene	91	10.033	9.992	(1.038)	2862	0.25000	0.17(a)
88	1,2-Dichlorobenzene	146	10.014	9.992	(1.036)	2957	0.25000	0.27(a)
91	Hexachlorobutadiene	225	11.491	11.476	(1.189)	911	0.25000	0.26(a)
92	Naphthalene	128	11.607	11.540	(1.201)	3349	0.25000	0.19(a)
141	Cyclohexane	56	4.177	4.121	(0.999)	7819	0.25000	1.23(a)
147	Methylcyclohexane	55	5.377	5.381	(1.083)	1111	0.25000	0.10(a)
135	1,4-Dioxane	88	5.624	5.598	(1.345)	279	5.00000	4.65(aM)
136	n-Hexane	57	2.772	2.776	(0.663)	805	0.25000	(Ta)
139	Diethyl ether	59	1.767	1.760	(0.423)	1156	0.25000	0.37(a)
149	Isopropyl alcohol	45	2.104	2.093	(0.503)	1938	5.00000	6.90(T)
160	2-Methylnaphthalene	142	12.694	12.634	(1.314)	824	0.25000	0.11(a)
166	1,2,3-Trimethylbenzene	105	9.740	9.729	(1.008)	6314	0.25000	0.35(a)
174	tert-Amyl methyl ether	73	4.669	4.665	(1.117)	6862	0.25000	0.43(a)
175	tert-Butyl ethyl ether	59	3.379	3.379	(0.808)	5136	0.25000	0.33(a)
176	tert-Amyl alcohol	59	4.639	4.612	(1.109)	2691	5.00000	6.47
151	4-Methyl-2-pentanol	45	6.730	6.708	(1.356)	7887	5.00000	6.47
180	1-Methylnaphthalene	142	12.694	12.634	(1.314)	824	0.25000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.279)	1108	0.25000	0.27(a)
162	Butyl acrylate	55	8.323	8.249	(1.086)	733	0.25000	0.61(a)
164	Dicyclopentadiene	66	9.677	9.681	(1.002)	13171	0.25000	0.62(a)
M 94	1,2-Dichloroethylene (total)	96				2586	0.50000	(a)
134	Cyclohexanone	55	8.653	8.642	(0.896)	2230	5.00000	(a)
150	Allyl alcohol	57	2.772	2.772	(0.663)	805	5.00000	(a)
200	Dimethyl Disulfide	94	6.209	6.194	(0.810)	3528	0.25000	0.34(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Date : 15-JUN-2023 11:15
Client ID: VSTD000.25
Sample Info: VSTD000.25;VSTD000.25;1;1;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

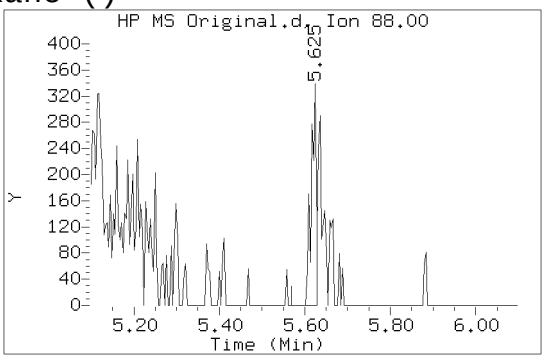
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061502.D
Inj Date : 15-JUN-2023 11:15
InstruID : voa6.i
LabSampID : VSTD000.25

1,4-Dioxane ()

Reason Code:

BEFORE

MASS
88
AREA
279
HEIGHT
339
20-Jun-2023
18:22
linh
pham



AFTER

MASS
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HEIGHT
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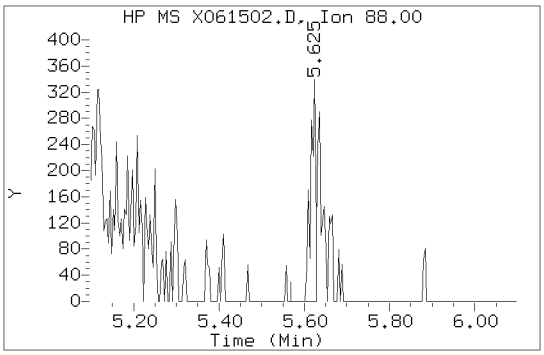

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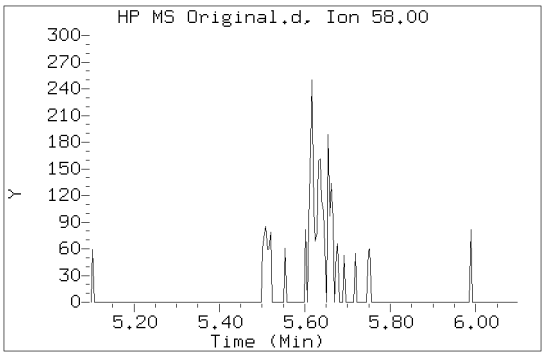

AFTER

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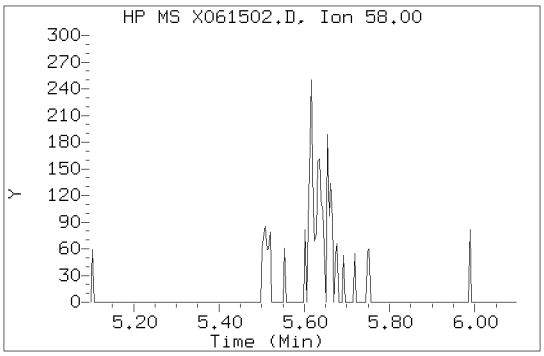

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Report Date: 05-Jul-2023 12:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Lab Smp Id: VSTD000.5 Client Smp ID: VSTD000.5
Inj Date : 15-JUN-2023 11:36
Operator : PC Inst ID: voa6.i
Smp Info : VSTD000.5;VSTD000.5;1;2;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 11:36 Cal File: X061503.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.181	4.181	(1.000)	480661	50.0000	
2	Dichlorodifluoromethane	85	0.973	0.973	(0.233)	2615	0.50000	0.95(M)
3	Chloromethane	50	1.081	1.081	(0.259)	3301	0.50000	1.66(M)
4	Propionitrile	54	3.709	3.709	(0.887)	2622	5.00000	4.51(aM)
5	Vinyl Chloride	62	1.145	1.145	(0.274)	2917	0.50000	0.57(M)
6	Bromomethane	94	1.344	1.344	(0.321)	1612	0.50000	0.55(M)
7	Chloroethane	64	1.407	1.407	(0.337)	1789	0.50000	0.57(M)
8	Trichlorofluoromethane	101	1.561	1.561	(0.373)	3392	0.50000	0.56(M)
9	Acrolein	56	1.445	1.445	(0.346)	343	1.00000	1.15(aM)
11	1,1-Dichloroethene	96	1.917	1.917	(0.459)	2206	0.50000	0.58(M)
12	Isobutyl Alcohol	43	4.702	4.702	(1.125)	5465	10.0000	8.71(aM)
13	Acetonitrile	39	2.213	2.213	(0.529)	2269	5.00000	4.86(aM)
14	Allyl Chloride	41	2.217	2.217	(0.530)	5619	0.50000	0.53(a)
15	Iodomethane	142	2.026	2.026	(0.485)	2984	1.00000	2.79(TM)
16	Acrylonitrile	53	2.584	2.584	(0.618)	1586	1.00000	1.03(M)
17	Methylene Chloride	84	2.307	2.307	(0.552)	3169	0.50000	0.59(M)
18	Methyl tert-butyl ether	73	2.543	2.543	(0.608)	7284	0.50000	0.55
19	Carbon Disulfide	76	2.075	2.075	(0.496)	15259	1.00000	1.13(M)
20	trans-1,2-Dichloroethene	96	2.539	2.539	(0.607)	2631	0.50000	0.58
21	Vinyl Acetate	43	3.046	3.046	(0.728)	11055	1.00000	0.91(aM)
22	1,1-Dichloroethane	63	2.926	2.926	(0.700)	4641	0.50000	0.57(M)

23 Chloroprene	53	1.775	1.775 (0.425)	937	0.50000	0.58(aM)
24 2-Butanone	43	3.683	3.683 (0.881)	1517	1.00000	0.95(aM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
25	Methacrylonitrile	41	3.870	3.870	(0.926)	2167	0.50000	0.54(aM)
26	2,2-Dichloropropane	77	3.514	3.514	(0.840)	4078	0.50000	0.63(M)
27	cis-1,2-Dichloroethene	96	3.537	3.537	(0.846)	3046	0.50000	0.58(M)
28	Chloroform	83	3.908	3.908	(0.935)	5129	0.50000	0.58(M)
29	Bromochloromethane	128	3.807	3.807	(0.910)	1516	0.50000	0.54(M)
31	1,1,1-Trichloroethane	97	4.076	4.076	(0.975)	4137	0.50000	0.58
32	1,1-Dichloropropene	75	4.283	4.283	(0.863)	3575	0.50000	0.57(M)
33	1,2-Dichloroethane	62	4.582	4.582	(0.923)	3689	0.50000	0.59
34	Carbon Tetrachloride	117	4.268	4.268	(0.860)	3561	0.50000	0.59
* 36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	737190	50.0000	
37	Benzene	78	4.519	4.519	(0.910)	10562	0.50000	0.55(M)
38	Trichloroethene	130	5.220	5.220	(1.051)	2866	0.50000	0.54(a)
39	Bromodichloromethane	83	5.726	5.726	(1.153)	3787	0.50000	0.56(aM)
40	Methyl Methacrylate	41	5.643	5.643	(1.350)	1972	0.50000	0.52(aM)
41	2-Chloroethylvinyl ether	63	6.093	6.093	(1.227)	1563	1.00000	0.86(aM)
42	1,2-Dichloropropane	63	5.445	5.445	(1.097)	2801	0.50000	0.56(aM)
43	2-Nitropropane	43	5.977	5.977	(1.429)	747	0.50000	0.57(aM)
44	Dibromomethane	93	5.568	5.568	(1.122)	1589	0.50000	0.50(aM)
45	4-Methyl-2-Pentanone	43	6.348	6.348	(0.828)	4230	1.00000	0.95(a)
46	cis-1,3-Dichloropropene	75	6.161	6.161	(1.241)	4543	0.50000	0.54(a)
* 47	Chlorobenzene-d5	117	7.668	7.668	(1.000)	687572	50.0000	
$ 48	Toluene-d8	98	6.401	6.401	(0.835)	9971	0.50000	0.57(a)
49	Ethyl Methacrylate	69	6.813	6.813	(1.372)	3142	0.50000	0.52(aM)
50	Toluene	91	6.461	6.461	(0.843)	11582	0.50000	0.57(aM)
51	trans-1,3-Dichloropropene	75	6.708	6.708	(1.351)	3492	0.50000	0.50(a)
52	2-Hexanone	43	7.117	7.117	(0.928)	2386	1.00000	0.80(a)
53	1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	2237	0.50000	0.56(aM)
54	1,3-Dichloropropane	76	6.989	6.989	(0.912)	4459	0.50000	0.56(aM)
55	Dibromochloromethane	129	7.184	7.184	(0.937)	3103	0.50000	0.55(a)
56	Tetrachloroethene	164	6.929	6.929	(0.904)	2291	0.50000	0.55(aM)
57	1,2-Dibromoethane	107	7.274	7.274	(0.949)	2925	0.50000	0.58(a)
58	1-Chlorohexane	55	7.705	7.705	(1.552)	2351	0.50000	0.52(aM)
59	Chlorobenzene	112	7.694	7.694	(1.003)	8017	0.50000	0.58(aM)
60	1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	2861	0.50000	0.55(a)
61	Ethylbenzene	106	7.806	7.806	(1.018)	3993	0.50000	0.56(a)
62	m,p-Xylenes	106	7.915	7.915	(1.032)	9595	1.00000	1.09(aM)
63	o-Xylene	106	8.252	8.252	(1.076)	4730	0.50000	0.54(aM)
64	Styrene	104	8.297	8.297	(1.082)	7646	0.50000	0.53(aM)
66	Bromoform	173	8.417	8.417	(1.098)	2211	0.50000	0.56(Ta)
67	Isopropylbenzene	105	8.567	8.567	(1.117)	12451	0.50000	0.57(a)
68	1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	3818	0.50000	0.57(aM)
$ 69	4-Bromofluorobenzene	95	8.706	8.706	(1.135)	7971	0.50000	0.66(a)
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	376739	50.0000	
71	1,2,3-Trichloropropane	75	8.878	8.878	(0.919)	2689	0.50000	0.56(a)
72	trans-1,4-Dichloro-2-butene	53	8.935	8.935	(1.165)	838	0.50000	0.50(aM)
73	n-Propylbenzene	91	8.927	8.927	(0.924)	14359	0.50000	0.57(a)
74	Bromobenzene	156	8.826	8.826	(0.913)	3535	0.50000	0.57(aM)
75	1,3,5-Trimethylbenzene	105	9.073	9.073	(0.939)	10589	0.50000	0.58(aM)
76	2-Chlorotoluene	91	8.983	8.983	(0.930)	8949	0.50000	0.56(aM)
77	4-Chlorotoluene	91	9.092	9.092	(0.941)	10012	0.50000	0.57(aM)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	8719	0.50000	0.57(aM)
79	1,2,4-Trimethylbenzene	105	9.388	9.388	(0.972)	10657	0.50000	0.58(aM)

81 sec-Butylbenzene	105	9.519	9.519 (0.985)	12512	0.50000	0.58(aM)
82 p-Isopropyltoluene	119	9.658	9.658 (1.000)	10432	0.50000	0.55(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
83	1,3-Dichlorobenzene	146	9.613	9.613	(0.995)	6249	0.50000	0.57(a)
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	6645	0.50000	0.56(a)
86	Benzyl Chloride	91	9.834	9.834	(1.283)	6300	0.50000	0.55(aM)
87	n-Butylbenzene	91	10.018	10.018	(1.037)	8377	0.50000	0.52(aM)
88	1,2-Dichlorobenzene	146	10.011	10.011	(1.036)	6205	0.50000	0.57(a)
89	1,2-Dibromo-3-Chloropropane	155	10.689	10.689	(1.106)	562	0.50000	0.77(aM)
90	1,2,4-Trichlorobenzene	180	11.371	11.371	(1.177)	3888	0.50000	0.51(a)
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	1714	0.50000	0.50(a)
92	Naphthalene	128	11.596	11.596	(1.200)	9500	0.50000	0.55(aM)
93	1,2,3-Trichlorobenzene	180	11.769	11.769	(1.218)	3790	0.50000	0.54(a)
146	Methyl acetate	43	2.255	2.255	(0.539)	1514	0.50000	0.53(aM)
138	Freon TF	101	1.917	1.917	(0.459)	2188	0.50000	0.67(aM)
141	Cyclohexane	56	4.129	4.129	(0.987)	3419	0.50000	0.55(aMH)
142	Tetrahydrofuran	42	3.874	3.874	(0.926)	724	1.00000	1.03(aM)
147	Methylcyclohexane	55	5.373	5.373	(1.082)	4698	0.50000	0.45(aM)
135	1,4-Dioxane	88	5.621	5.621	(1.344)	539	10.0000	9.25(aM)
132	n-Butanol	56	5.373	5.373	(1.285)	934	10.0000	72.06(aM)
131	Methyl Acrylate	55	3.784	3.784	(0.905)	1944	0.50000	0.49(aM)
133	Ethyl Acrylate	55	5.448	5.448	(1.303)	4696	0.50000	2.77(M)
136	n-Hexane	57	2.779	2.779	(0.665)	2120	0.50000	0.26(aM)
139	Diethyl ether	59	1.764	1.764	(0.422)	1591	0.50000	0.52(aM)
148	Tert-butyl alcohol	59	2.435	2.435	(0.582)	5403	10.0000	10.94(M)
149	Isopropyl alcohol	45	2.101	2.101	(0.502)	2910	10.0000	10.68
156	Diisopropyl ether	45	3.012	3.012	(0.720)	8201	0.50000	0.57(Ta)
160	2-Methylnaphthalene	142	12.668	12.668	(1.311)	3514	0.50000	0.47(a)
166	1,2,3-Trimethylbenzene	105	9.741	9.741	(1.008)	9163	0.50000	0.51(a)
167	Ethanol	45	1.700	1.700	(0.407)	492	10.0000	10.70(M)
172	tert-Butyl formate	59	4.635	4.635	(1.108)	3776	1.00000	0.95(aM)
173	3,3-Dimethyl-1-butanol	57	7.293	7.293	(0.951)	6294	10.0000	11.19(M)
174	tert-Amyl methyl ether	73	4.669	4.669	(1.117)	8758	0.50000	0.56(aM)
175	tert-Butyl ethyl ether	59	3.383	3.383	(0.809)	8683	0.50000	0.59(a)
176	tert-Amyl alcohol	59	4.635	4.635	(1.108)	4487	10.0000	11.11(M)
151	4-Methyl-2-pentanol	45	6.727	6.727	(1.355)	12489	10.0000	10.65
180	1-Methylnaphthalene	142	12.668	12.668	(1.311)	3514	0.50000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.279)	2248	0.50000	0.56(aM)
152	Amyl alcohol	42	7.015	7.015	(0.915)	1185	10.0000	9.25(M)
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	4041	0.50000	0.58(M)
161	3-Methyl-1-butanol	55	7.004	7.004	(0.913)	1270	10.0000	44.67(M)
162	Butyl acrylate	55	8.297	8.297	(1.082)	1843	0.50000	0.72(a)
164	Dicyclopentadiene	66	9.681	9.681	(1.002)	12411	0.50000	0.58(aM)
182	Epichlorohydrin	57	6.127	6.127	(1.234)	1097	2.00000	2.48(aM)
M 94	1,2-Dichloroethylene (total)	96				5677	1.00000	1.17(a)
M 95	Xylenes (total)	106				14325	1.50000	1.63(a)
130	Ethyl Acetate	43	3.717	3.717	(0.889)	2678	0.50000	0.54(aM)
134	Cyclohexanone	55	8.657	8.657	(0.896)	2832	10.0000	0.47(a)
185	Isoprene	39	1.779	1.779	(0.425)	790	0.50000	0.60(a)
188	Isopropyl acetate	43	4.702	4.702	(0.947)	7126	0.50000	0.55(aM)
187	n-Amyl acetate	43	8.489	8.489	(1.107)	4951	0.50000	0.53(aM)
189	n-Butyl acetate	43	7.244	7.244	(0.945)	3227	0.50000	0.43(aM)
150	Allyl alcohol	57	2.779	2.779	(0.665)	2756	10.0000	7.04(M)
195	Methyl Amyl Ketone	43	8.425	8.425	(1.099)	4519	0.50000	0.44(aM)
200	Dimethyl Disulfide	94	6.209	6.209	(0.810)	5577	0.50000	0.54(a)

205 2-Ethylhexyl Acrylate	55	11.615	11.615 (1.202)	2087	0.50000	1.56(aM)

QC Flag Legend

T - Target compound detected outside RT window.
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\voa6.i\X230615.b\X061504.D Page 1
Report Date: 05-Jul-2023 13:00

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061504.D
Lab Smp Id: VSTD001 Client Smp ID: VSTD001
Inj Date : 15-JUN-2023 12:18
Operator : PC Inst ID: voa6.i
Smp Info : VSTD001;VSTD001;1;3;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 12:18 Cal File: X061504.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.181	4.181	(1.000)	476411	50.0000	
2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	4505	1.00000	1.42
3	Chloromethane	50	1.081	1.081	(0.259)	5922	1.00000	2.17
4	Propionitrile	54	3.694	3.694	(0.883)	5974	10.0000	10.36(aM)
5	Vinyl Chloride	62	1.145	1.145	(0.274)	5221	1.00000	1.04
6	Bromomethane	94	1.347	1.347	(0.322)	3161	1.00000	1.10(M)
7	Chloroethane	64	1.403	1.403	(0.336)	3224	1.00000	1.05
8	Trichlorofluoromethane	101	1.565	1.565	(0.374)	6281	1.00000	1.05
9	Acrolein	56	1.452	1.452	(0.347)	538	2.00000	1.81(aM)
10	Acetone	43	1.981	1.981	(0.474)	4663	2.00000	3.49(M)
11	1,1-Dichloroethene	96	1.917	1.917	(0.459)	4255	1.00000	1.14
12	Isobutyl Alcohol	43	4.687	4.687	(1.121)	12753	20.0000	20.52(a)
13	Acetonitrile	39	2.206	2.206	(0.528)	4200	10.0000	9.08(a)
14	Allyl Chloride	41	2.209	2.209	(0.528)	9998	1.00000	0.95(a)
15	Iodomethane	142	2.029	2.029	(0.485)	6227	2.00000	3.31(M)
16	Acrylonitrile	53	2.592	2.592	(0.620)	2830	2.00000	1.87(M)
17	Methylene Chloride	84	2.311	2.311	(0.553)	6477	1.00000	1.22(M)
18	Methyl tert-butyl ether	73	2.539	2.539	(0.607)	12904	1.00000	0.99
19	Carbon Disulfide	76	2.074	2.074	(0.496)	28412	2.00000	2.13
20	trans-1,2-Dichloroethene	96	2.536	2.536	(0.606)	4869	1.00000	1.09
21	Vinyl Acetate	43	3.030	3.030	(0.725)	25154	2.00000	2.11(M)

22 1,1-Dichloroethane	63	2.925	2.925 (0.700)	8535	1.00000	1.06(M)
23 Chloroprene	53	1.782	1.782 (0.426)	1506	1.00000	0.95(aM)

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	3.675	3.675	(0.879)	2970	2.00000	1.89(M)
	25	Methacrylonitrile	41	3.859	3.859	(0.923)	4503	1.00000	1.14(aH)
	26	2,2-Dichloropropane	77	3.506	3.506	(0.839)	7438	1.00000	1.16
	27	cis-1,2-Dichloroethene	96	3.533	3.533	(0.845)	5641	1.00000	1.09
	28	Chloroform	83	3.908	3.908	(0.935)	9991	1.00000	1.15
	29	Bromochloromethane	128	3.803	3.803	(0.909)	3072	1.00000	1.12
$	30	Dibromofluoromethane	113	4.106	4.106	(0.982)	5707	1.00000	1.00
	31	1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	7437	1.00000	1.06
	32	1,1-Dichloropropene	75	4.286	4.286	(0.863)	5846	1.00000	0.93
	33	1,2-Dichloroethane	62	4.571	4.571	(0.921)	6607	1.00000	1.05
	34	Carbon Tetrachloride	117	4.260	4.260	(0.858)	6002	1.00000	1.00
$	35	1,2-Dichloroethane-d4	65	4.481	4.481	(1.072)	6368	1.00000	0.55
*	36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	742460	50.0000	
	37	Benzene	78	4.522	4.522	(0.911)	20769	1.00000	1.08
	38	Trichloroethene	130	5.216	5.216	(1.051)	5205	1.00000	0.98(a)
	39	Bromodichloromethane	83	5.729	5.729	(1.154)	7957	1.00000	1.17(a)
	40	Methyl Methacrylate	41	5.624	5.624	(1.345)	3817	1.00000	1.03(aM)
	41	2-Chloroethylvinyl ether	63	6.074	6.074	(1.223)	3674	2.00000	2.00(aM)
	42	1,2-Dichloropropane	63	5.441	5.441	(1.096)	4954	1.00000	0.98(aM)
	43	2-Nitropropane	43	5.977	5.977	(1.429)	1148	1.00000	0.89(aH)
	44	Dibromomethane	93	5.561	5.561	(1.120)	3549	1.00000	1.12(a)
	45	4-Methyl-2-Pentanone	43	6.337	6.337	(0.826)	9202	2.00000	2.06(aM)
	46	cis-1,3-Dichloropropene	75	6.168	6.168	(1.242)	8393	1.00000	1.00(a)
*	47	Chlorobenzene-d5	117	7.667	7.667	(1.000)	689452	50.0000	
$	48	Toluene-d8	98	6.393	6.393	(0.834)	19747	1.00000	1.13(a)
	49	Ethyl Methacrylate	69	6.798	6.798	(1.369)	6487	1.00000	0.95(aMH)
	50	Toluene	91	6.457	6.457	(0.842)	20722	1.00000	1.02(a)
	51	trans-1,3-Dichloropropene	75	6.697	6.697	(1.349)	7608	1.00000	1.09(a)
	52	2-Hexanone	43	7.116	7.116	(0.928)	5813	2.00000	1.95(a)
	53	1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	4096	1.00000	1.03(a)
	54	1,3-Dichloropropane	76	6.985	6.985	(0.911)	8386	1.00000	1.05(a)
	55	Dibromochloromethane	129	7.184	7.184	(0.937)	5861	1.00000	1.04(a)
	56	Tetrachloroethene	164	6.929	6.929	(0.904)	4148	1.00000	0.99(a)
	57	1,2-Dibromoethane	107	7.266	7.266	(0.948)	5555	1.00000	1.10(a)
	58	1-Chlorohexane	55	7.697	7.697	(1.550)	4565	1.00000	1.01(a)
	59	Chlorobenzene	112	7.697	7.697	(1.004)	14514	1.00000	1.04(a)
	60	1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	5613	1.00000	1.08(a)
	61	Ethylbenzene	106	7.806	7.806	(1.018)	7471	1.00000	1.04(a)
	62	m,p-Xylenes	106	7.911	7.911	(1.032)	16779	2.00000	1.90(a)
	63	o-Xylene	106	8.248	8.248	(1.076)	9263	1.00000	1.05(a)
	64	Styrene	104	8.286	8.286	(1.081)	14673	1.00000	1.01(a)
	66	Bromoform	173	8.417	8.417	(1.098)	3884	1.00000	0.99(Ta)
	67	Isopropylbenzene	105	8.563	8.563	(1.117)	21399	1.00000	0.98(a)
	68	1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	7862	1.00000	1.18(a)
$	69	4-Bromofluorobenzene	95	8.698	8.698	(1.134)	11345	1.00000	1.16(a)
*	70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	377369	50.0000	
	71	1,2,3-Trichloropropane	75	8.871	8.871	(0.918)	4849	1.00000	1.01(a)
	72	trans-1,4-Dichloro-2-butene	53	8.919	8.919	(1.163)	1668	1.00000	0.99(aM)
	73	n-Propylbenzene	91	8.919	8.919	(0.923)	22989	1.00000	0.92(a)
	74	Bromobenzene	156	8.818	8.818	(0.913)	6344	1.00000	1.03(a)
	75	1,3,5-Trimethylbenzene	105	9.073	9.073	(0.939)	18052	1.00000	0.99(a)
	76	2-Chlorotoluene	91	8.983	8.983	(0.930)	17472	1.00000	1.10(a)

77	4-Chlorotoluene	91	9.088	9.088 (0.941)	17079	1.00000	0.97(a)
78	tert-Butylbenzene	119	9.336	9.336 (0.966)	14794	1.00000	0.97(a)

	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	9.384	9.384	(0.971)	18527	1.00000	1.00(a)
81	sec-Butylbenzene	105	9.523	9.523	(0.986)	21044	1.00000	0.98(a)
82	p-Isopropyltoluene	119	9.650	9.650	(0.999)	17481	1.00000	0.93(a)
83	1,3-Dichlorobenzene	146	9.613	9.613	(0.995)	11009	1.00000	1.00(a)
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	12708	1.00000	1.08(a)
86	Benzyl Chloride	91	9.830	9.830	(1.282)	11104	1.00000	0.97(a)
87	n-Butylbenzene	91	10.014	10.014	(1.036)	13132	1.00000	0.82(aM)
88	1,2-Dichlorobenzene	146	10.007	10.007	(1.036)	10599	1.00000	0.97(a)
89	1,2-Dibromo-3-Chloropropane	155	10.674	10.674	(1.105)	1184	1.00000	1.34(a)
90	1,2,4-Trichlorobenzene	180	11.364	11.364	(1.176)	7174	1.00000	0.94(a)
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	3283	1.00000	0.96(a)
92	Naphthalene	128	11.570	11.570	(1.197)	14944	1.00000	0.87(a)
93	1,2,3-Trichlorobenzene	180	11.750	11.750	(1.216)	6263	1.00000	0.90(a)
146	Methyl acetate	43	2.258	2.258	(0.540)	2984	1.00000	1.05(a)
138	Freon TF	101	1.921	1.921	(0.459)	3869	1.00000	1.20(a)
141	Cyclohexane	56	4.121	4.121	(0.986)	5865	1.00000	0.96(aH)
142	Tetrahydrofuran	42	3.863	3.863	(0.924)	1350	2.00000	1.94(aM)
147	Methylcyclohexane	55	5.373	5.373	(1.082)	9209	1.00000	0.88(aM)
135	1,4-Dioxane	88	5.613	5.613	(1.342)	1286	20.0000	22.27(M)
132	n-Butanol	56	5.370	5.370	(1.284)	2023	20.0000	80.30(aM)
131	Methyl Acrylate	55	3.750	3.750	(0.897)	3465	1.00000	0.89(aM)
133	Ethyl Acrylate	55	5.422	5.422	(1.297)	8042	1.00000	3.07(M)
136	n-Hexane	57	2.775	2.775	(0.664)	4190	1.00000	0.77(a)
139	Diethyl ether	59	1.767	1.767	(0.423)	3143	1.00000	1.05(a)
148	Tert-butyl alcohol	59	2.442	2.442	(0.584)	11634	20.0000	23.78
149	Isopropyl alcohol	45	2.101	2.101	(0.502)	6463	20.0000	23.93
156	Diisopropyl ether	45	3.012	3.012	(0.720)	13921	1.00000	0.99(Ta)
160	2-Methylnaphthalene	142	12.668	12.668	(1.311)	6245	1.00000	0.83(a)
166	1,2,3-Trimethylbenzene	105	9.737	9.737	(1.008)	17649	1.00000	0.98(a)
167	Ethanol	45	1.707	1.707	(0.408)	953	20.0000	20.92(M)
172	tert-Butyl formate	59	4.627	4.627	(1.107)	8761	2.00000	2.23(aM)
173	3,3-Dimethyl-1-butanol	57	7.296	7.296	(0.952)	12186	20.0000	21.61(M)
174	tert-Amyl methyl ether	73	4.669	4.669	(1.117)	15782	1.00000	1.03(aM)
175	tert-Butyl ethyl ether	59	3.383	3.383	(0.809)	14971	1.00000	1.02(a)
176	tert-Amyl alcohol	59	4.627	4.627	(1.107)	8761	20.0000	21.89(M)
151	4-Methyl-2-pentanol	45	6.719	6.719	(1.353)	26840	20.0000	22.73(M)
180	1-Methylnaphthalene	142	12.668	12.668	(1.311)	6245	1.00000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.279)	4172	1.00000	1.05(a)
152	Amyl alcohol	42	6.981	6.981	(0.911)	2449	20.0000	19.06(M)
158	Dichlorofluoromethane	67	1.531	1.531	(0.366)	6498	1.00000	0.94(M)
159	Propylene oxide	43	1.812	1.812	(0.433)	1041	2.00000	2.46(a)
161	3-Methyl-1-butanol	55	6.951	6.951	(0.907)	2518	20.0000	53.71(M)
162	Butyl acrylate	55	8.278	8.278	(1.080)	6899	1.00000	1.21(a)
163	Butyl methacrylate	41	9.182	9.182	(0.950)	6113	1.00000	0.96(a)
164	Dicyclopentadiene	66	9.680	9.680	(1.002)	21021	1.00000	0.99(aM)
182	Epichlorohydrin	57	6.119	6.119	(1.233)	2012	4.00000	4.53(aM)
M 94	1,2-Dichloroethylene (total)	96				10510	2.00000	2.18(a)
M 95	Xylenes (total)	106				26042	3.00000	2.96(a)
130	Ethyl Acetate	43	3.694	3.694	(0.883)	5317	1.00000	1.09(aM)
134	Cyclohexanone	55	8.653	8.653	(0.896)	5123	20.0000	11.33(a)
185	Isoprene	39	1.778	1.778	(0.425)	1889	1.00000	1.45(a)
188	Isopropyl acetate	43	4.687	4.687	(0.944)	12045	1.00000	0.93(a)

187 n-Amyl acetate	43	8.477	8.477 (1.106)	10084	1.00000	1.09(aM)
189 n-Butyl acetate	43	7.233	7.233 (0.943)	7115	1.00000	0.96(aM)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
150 Allyl alcohol	57	2.775	2.775	(0.664)	4190	20.0000	14.15
195 Methyl Amyl Ketone	43	8.410	8.410	(1.097)	8974	1.00000	0.88(a)
200 Dimethyl Disulfide	94	6.202	6.202	(0.809)	9210	1.00000	0.90(a)
202 Isobutylene	41	1.242	1.242	(0.297)	500	1.00000	1.09(aM)
205 2-Ethylhexyl Acrylate	55	11.577	11.577	(1.198)	3400	1.00000	1.74(aM)

QC Flag Legend

T - Target compound detected outside RT window.
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\voa6.i\X230615.b\X061505.D Page 1
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ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Lab Smp Id: VSTD002 Client Smp ID: VSTD002
Inj Date : 15-JUN-2023 12:39
Operator : PC Inst ID: voa6.i
Smp Info : VSTD002;VSTD002;1;4;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 12:39 Cal File: X061505.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.178	4.181	(1.000)	491447	50.0000	
	2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	9827	2.00000	2.63
	3 Chloromethane	50	1.081	1.081	(0.259)	11295	2.00000	3.15(M)
	4 Propionitrile	54	3.675	3.653	(0.880)	10893	20.0000	18.32(a)
	5 Vinyl Chloride	62	1.145	1.149	(0.274)	11284	2.00000	2.18(M)
	6 Bromomethane	94	1.347	1.344	(0.323)	6397	2.00000	2.15
	7 Chloroethane	64	1.404	1.407	(0.336)	6480	2.00000	2.05(M)
	8 Trichlorofluoromethane	101	1.561	1.565	(0.374)	13596	2.00000	2.21(M)
	9 Acrolein	56	1.449	1.449	(0.347)	1177	4.00000	3.85(aM)
	10 Acetone	43	1.977	1.973	(0.473)	7818	4.00000	5.84
	11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	8233	2.00000	2.13(M)
	12 Isobutyl Alcohol	43	4.680	4.676	(1.120)	25931	40.0000	40.46(a)
	13 Acetonitrile	39	2.210	2.202	(0.529)	9828	20.0000	20.61(a)
	14 Allyl Chloride	41	2.210	2.202	(0.529)	21197	2.00000	1.96(a)
	15 Iodomethane	142	2.030	2.030	(0.486)	14998	4.00000	4.64
	16 Acrylonitrile	53	2.577	2.536	(0.617)	6148	4.00000	3.94(M)
	17 Methylene Chloride	84	2.311	2.307	(0.553)	10372	2.00000	1.90(M)
	18 Methyl tert-butyl ether	73	2.539	2.536	(0.608)	28898	2.00000	2.15
	19 Carbon Disulfide	76	2.071	2.071	(0.496)	57380	4.00000	4.18
	20 trans-1,2-Dichloroethene	96	2.539	2.532	(0.608)	9744	2.00000	2.11
	21 Vinyl Acetate	43	3.019	2.997	(0.723)	44460	4.00000	3.61(M)

22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	17688	2.00000	2.13
23 Chloroprene	53	1.775	1.775 (0.425)	3814	2.00000	2.33(aM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	24 2-Butanone	43	3.660	3.578	(0.876)	6420	4.00000	3.96(M)
	25 Methacrylonitrile	41	3.859	3.821	(0.924)	6777	2.00000	1.67(aH)
	26 2,2-Dichloropropane	77	3.510	3.514	(0.840)	15188	2.00000	2.31
	27 cis-1,2-Dichloroethene	96	3.529	3.525	(0.845)	10709	2.00000	2.01
	28 Chloroform	83	3.912	3.904	(0.936)	19699	2.00000	2.20
	29 Bromochloromethane	128	3.799	3.795	(0.909)	6232	2.00000	2.20
$	30 Dibromofluoromethane	113	4.110	4.099	(0.984)	9855	2.00000	1.91
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.978)	15758	2.00000	2.18
	32 1,1-Dichloropropene	75	4.283	4.279	(0.863)	13845	2.00000	2.18
	33 1,2-Dichloroethane	62	4.568	4.556	(0.920)	11862	2.00000	1.86
	34 Carbon Tetrachloride	117	4.268	4.264	(0.860)	13225	2.00000	2.16(M)
$	35 1,2-Dichloroethane-d4	65	4.485	4.470	(1.074)	11054	2.00000	1.51
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	756725	50.0000	
	37 Benzene	78	4.519	4.511	(0.910)	40051	2.00000	2.05
	38 Trichloroethene	130	5.209	5.205	(1.049)	11520	2.00000	2.14(a)
	39 Bromodichloromethane	83	5.726	5.722	(1.153)	13844	2.00000	2.01(a)
	40 Methyl Methacrylate	41	5.625	5.606	(1.346)	6671	2.00000	1.75(a)
	41 2-Chloroethylvinyl ether	63	6.067	6.048	(1.222)	7359	4.00000	3.94(a)
	42 1,2-Dichloropropane	63	5.433	5.437	(1.094)	10261	2.00000	2.00(aM)
	43 2-Nitropropane	43	5.973	5.966	(1.430)	2410	2.00000	1.81(aH)
	44 Dibromomethane	93	5.561	5.550	(1.120)	6792	2.00000	2.11(a)
	45 4-Methyl-2-Pentanone	43	6.333	6.322	(0.826)	18797	4.00000	4.09(a)
	46 cis-1,3-Dichloropropene	75	6.164	6.153	(1.242)	16469	2.00000	1.93(a)
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	710505	50.0000	
$	48 Toluene-d8	98	6.393	6.386	(0.834)	37063	2.00000	2.06(a)
	49 Ethyl Methacrylate	69	6.719	6.708	(1.353)	11631	2.00000	2.14(aM)
	50 Toluene	91	6.453	6.445	(0.842)	44414	2.00000	2.12(a)
	51 trans-1,3-Dichloropropene	75	6.689	6.678	(1.347)	13530	2.00000	1.90(a)
	52 2-Hexanone	43	7.105	7.083	(0.927)	12601	4.00000	4.11(a)
	53 1,1,2-Trichloroethane	83	6.843	6.835	(0.892)	8751	2.00000	2.15(a)
	54 1,3-Dichloropropane	76	6.985	6.978	(0.911)	16399	2.00000	1.99(a)
	55 Dibromochloromethane	129	7.180	7.173	(0.936)	11673	2.00000	2.02(a)
	56 Tetrachloroethene	164	6.929	6.925	(0.904)	9492	2.00000	2.21(a)
	57 1,2-Dibromoethane	107	7.263	7.259	(0.947)	10319	2.00000	1.98(a)
	58 1-Chlorohexane	55	7.701	7.694	(1.551)	10171	2.00000	2.21(a)
	59 Chlorobenzene	112	7.698	7.690	(1.004)	29078	2.00000	2.03(a)
	60 1,1,1,2-Tetrachloroethane	131	7.776	7.773	(1.014)	10908	2.00000	2.04(a)
	61 Ethylbenzene	106	7.806	7.799	(1.018)	15525	2.00000	2.11(a)
	62 m,p-Xylenes	106	7.908	7.900	(1.031)	37098	4.00000	4.09(a)
	63 o-Xylene	106	8.245	8.237	(1.075)	19383	2.00000	2.14(a)
	64 Styrene	104	8.271	8.256	(1.079)	29379	2.00000	1.97(a)
	66 Bromoform	173	8.414	8.410	(1.097)	7721	2.00000	1.92(Ta)
	67 Isopropylbenzene	105	8.564	8.560	(1.117)	47118	2.00000	2.10(a)
	68 1,1,2,2-Tetrachloroethane	83	8.841	8.837	(0.915)	14437	2.00000	2.11(a)
$	69 4-Bromofluorobenzene	95	8.695	8.687	(1.134)	16470	2.00000	1.86(a)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	388397	50.0000	
	71 1,2,3-Trichloropropane	75	8.867	8.863	(0.918)	10499	2.00000	2.14(a)
	72 trans-1,4-Dichloro-2-butene	53	8.905	8.886	(1.161)	3093	2.00000	1.78(aM)
	73 n-Propylbenzene	91	8.916	8.908	(0.923)	55786	2.00000	2.18(a)
	74 Bromobenzene	156	8.815	8.803	(0.912)	13387	2.00000	2.11(aM)
	75 1,3,5-Trimethylbenzene	105	9.070	9.066	(0.939)	39913	2.00000	2.12(a)
	76 2-Chlorotoluene	91	8.976	8.972	(0.929)	35737	2.00000	2.20(a)

77	4-Chlorotoluene	91	9.081	9.070 (0.940)	39085	2.00000	2.15(a)
78	tert-Butylbenzene	119	9.336	9.336 (0.966)	34187	2.00000	2.18(a)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D Page 3
Report Date: 20-Jun-2023 18:25

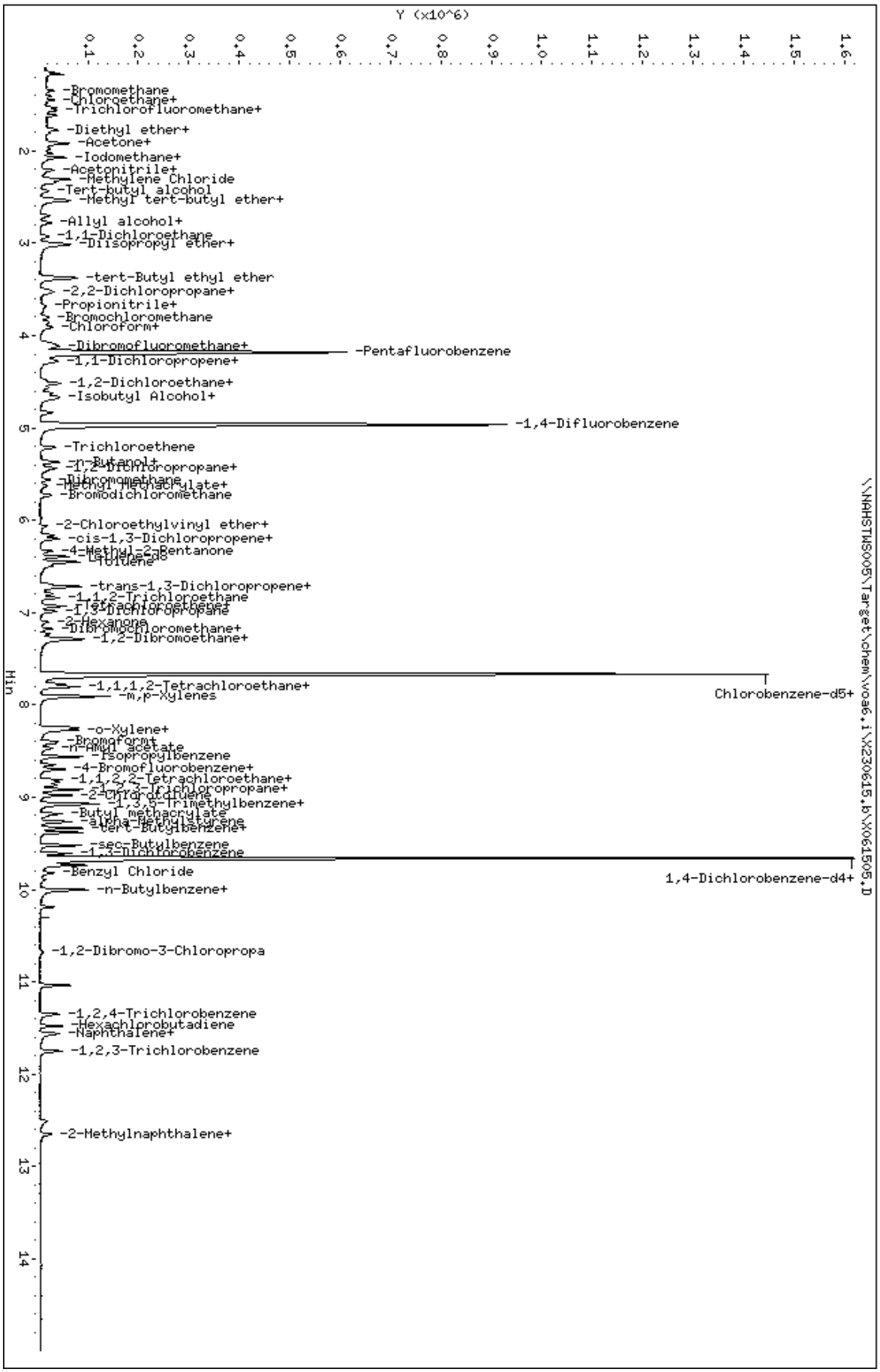
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.381	9.377	(0.971)	39036	2.00000	2.06(a)
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	46617	2.00000	2.11(a)
82	p-Isopropyltoluene	119	9.651	9.647	(0.999)	40965	2.00000	2.12(a)
83	1,3-Dichlorobenzene	146	9.609	9.602	(0.995)	22900	2.00000	2.03(a)
84	1,4-Dichlorobenzene	146	9.684	9.681	(1.002)	26087	2.00000	2.16(a)
86	Benzyl Chloride	91	9.816	9.808	(1.280)	20389	2.00000	1.73(aM)
87	n-Butylbenzene	91	10.003	9.992	(1.035)	33064	2.00000	2.01(a)
88	1,2-Dichlorobenzene	146	10.003	9.992	(1.035)	23526	2.00000	2.10(a)
89	1,2-Dibromo-3-Chloropropane	155	10.674	10.655	(1.105)	2351	2.00000	2.36(a)
90	1,2,4-Trichlorobenzene	180	11.353	11.334	(1.175)	14424	2.00000	1.85(a)
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	7390	2.00000	2.11(a)
92	Naphthalene	128	11.562	11.540	(1.197)	32050	2.00000	1.82(a)
93	1,2,3-Trichlorobenzene	180	11.750	11.739	(1.216)	14223	2.00000	1.98(a)
146	Methyl acetate	43	2.247	2.232	(0.538)	5157	2.00000	1.77(aM)
138	Freon TF	101	1.921	1.917	(0.460)	8361	2.00000	2.50(aM)
141	Cyclohexane	56	4.125	4.121	(0.987)	13787	2.00000	2.20(aMH)
142	Tetrahydrofuran	42	3.863	3.844	(0.925)	2899	4.00000	4.04(a)
147	Methylcyclohexane	55	5.370	5.381	(1.082)	20990	2.00000	1.98(aM)
135	1,4-Dioxane	88	5.613	5.598	(1.344)	2444	40.0000	41.03(M)
132	n-Butanol	56	5.355	5.253	(1.282)	3179	40.0000	88.25(aM)
131	Methyl Acrylate	55	3.735	3.690	(0.894)	8064	2.00000	2.02(aM)
133	Ethyl Acrylate	55	5.407	5.381	(1.294)	14275	2.00000	3.59(M)
136	n-Hexane	57	2.776	2.776	(0.664)	10696	2.00000	2.27(aM)
139	Diethyl ether	59	1.764	1.760	(0.422)	6390	2.00000	2.07(a)
148	Tert-butyl alcohol	59	2.438	2.431	(0.584)	20278	40.0000	40.18
149	Isopropyl alcohol	45	2.105	2.093	(0.504)	11338	40.0000	40.70(T)
156	Diisopropyl ether	45	3.001	3.000	(0.718)	28799	2.00000	1.98(Ta)
160	2-Methylnaphthalene	142	12.646	12.634	(1.309)	12286	2.00000	1.60
166	1,2,3-Trimethylbenzene	105	9.733	9.729	(1.007)	38504	2.00000	2.08(a)
167	Ethanol	45	1.700	1.707	(0.407)	2336	40.0000	49.73(TM)
172	tert-Butyl formate	59	4.627	4.612	(1.108)	16716	4.00000	4.13(aM)
173	3,3-Dimethyl-1-butanol	57	7.293	7.285	(0.951)	26671	40.0000	45.89
174	tert-Amyl methyl ether	73	4.669	4.665	(1.118)	32910	2.00000	2.08(aM)
175	tert-Butyl ethyl ether	59	3.375	3.379	(0.808)	30807	2.00000	2.05(a)
176	tert-Amyl alcohol	59	4.627	4.612	(1.108)	16715	40.0000	40.49
151	4-Methyl-2-pentanol	45	6.715	6.708	(1.353)	56864	40.0000	47.25(M)
180	1-Methylnaphthalene	142	12.646	12.634	(1.309)	12286	2.00000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.280)	8478	2.00000	2.08(aM)
152	Amyl alcohol	42	6.944	6.899	(0.906)	5090	40.0000	38.44(M)
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	15880	2.00000	2.24(M)
159	Propylene oxide	43	1.809	1.805	(0.433)	2196	4.00000	5.04
161	3-Methyl-1-butanol	55	6.937	6.899	(0.905)	3850	40.0000	62.56(M)
162	Butyl acrylate	55	8.267	8.249	(1.078)	19207	2.00000	2.35(a)
163	Butyl methacrylate	41	9.178	9.167	(0.950)	13349	2.00000	2.04(a)
164	Dicyclopentadiene	66	9.681	9.681	(1.002)	45923	2.00000	2.11(aM)
182	Epichlorohydrin	57	6.112	6.093	(1.231)	3820	8.00000	8.43(M)
M 94	1,2-Dichloroethylene (total)	96				20453	4.00000	(a)
130	Ethyl Acetate	43	3.672	3.657	(0.879)	10775	2.00000	2.15(Ta)
134	Cyclohexanone	55	8.650	8.642	(0.895)	11759	40.0000	41.26(a)
185	Isoprene	39	1.779	1.775	(0.426)	3339	2.00000	2.49(a)
188	Isopropyl acetate	43	4.680	4.676	(0.943)	24959	2.00000	1.90(a)
187	n-Amyl acetate	43	8.470	8.451	(1.105)	18078	2.00000	1.90(aM)

189 n-Butyl acetate	43	7.229	7.210 (0.943)	14580	2.00000	1.91(aM)
150 Allyl alcohol	57	2.776	2.772 (0.664)	11222	40.0000	46.69

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
194 Acetaldehyde	44	1.209	1.216	(0.289)	4310	8.00000	13.50(M)
195 Methyl Amyl Ketone	43	8.395	8.380	(1.095)	20788	2.00000	1.98(a)
200 Dimethyl Disulfide	94	6.198	6.194	(0.808)	20124	2.00000	1.90(a)
202 Isobutylene	41	1.246	1.242	(0.298)	964	2.00000	2.05(aM)
205 2-Ethylhexyl Acrylate	55	11.566	11.544	(1.197)	8837	2.00000	2.46(aM)

QC Flag Legend

T - Target compound detected outside RT window.
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\voa6.i\X230615.b\X061505.D
Date : 15-JUN-2023 12:39
Client ID: VSTD002
Sample Info: VSTD002;VSTD002;1;4;
Purge Volume: 5.0
Column phase: DB624

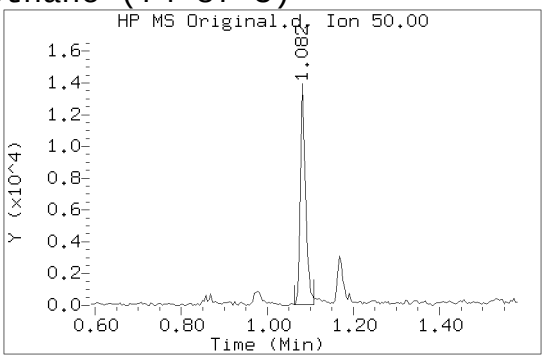
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

Chloromethane (74-87-3)

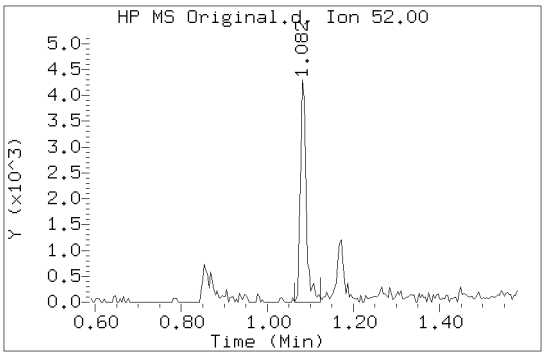
BEFORE

MASS
50
AREA
11295
HEIGHT
13896
20-Jun-2023
18:22
linh
pham



BEFORE

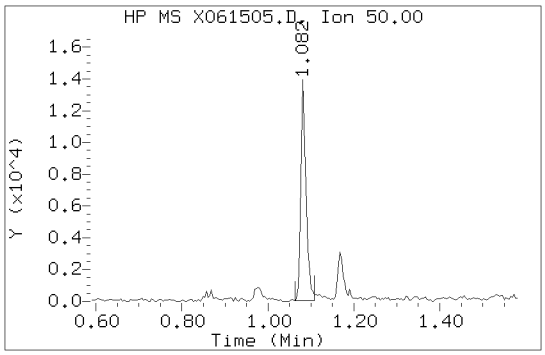
MASS
52
AREA
3925
HEIGHT
4298
20-Jun-2023
18:22
linh
pham



Reason Code:

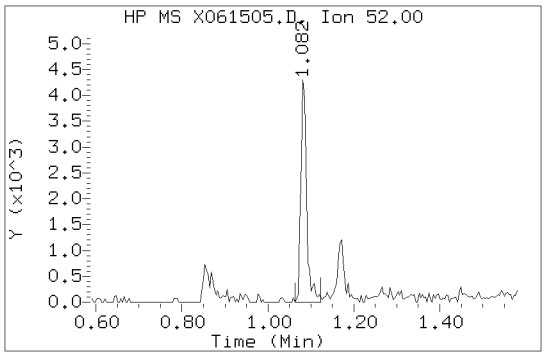
AFTER

MASS
50
AREA
11295
HEIGHT
13896
20-Jun-2023
18:22
linh
pham



AFTER

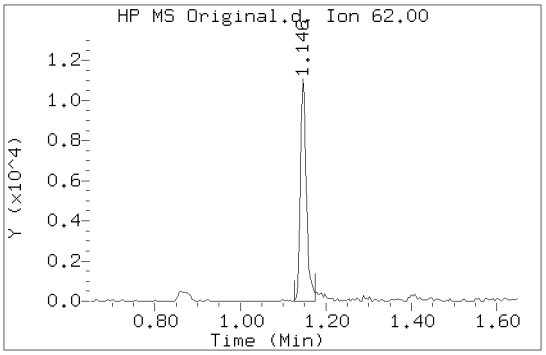
MASS
52
AREA
3925
HEIGHT
4298
20-Jun-2023
18:22
linh
pham



Vinyl Chloride (75-01-4)

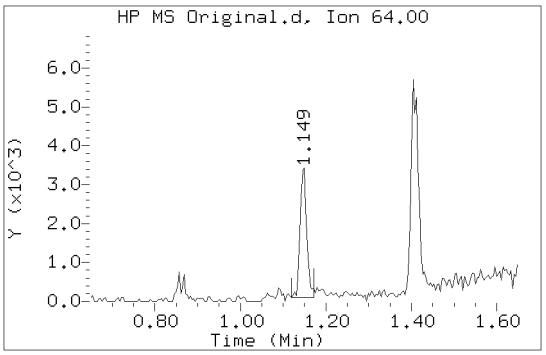
BEFORE

MASS
62
AREA
11284
HEIGHT
11076
20-Jun-2023
18:22
linh
pham



BEFORE

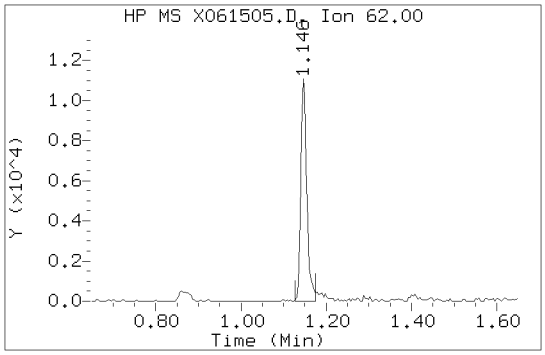
MASS
64
AREA
3791
HEIGHT
3342
20-Jun-2023
18:22
linh
pham



Reason Code:

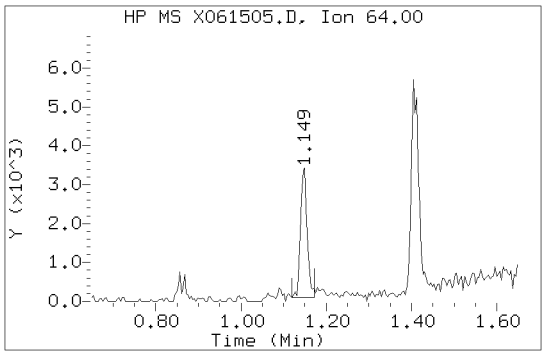
AFTER

MASS
62
AREA
11284
HEIGHT
11076
20-Jun-2023
18:22
linh
pham



AFTER

MASS
64
AREA
3791
HEIGHT
3342
20-Jun-2023
18:22
linh
pham



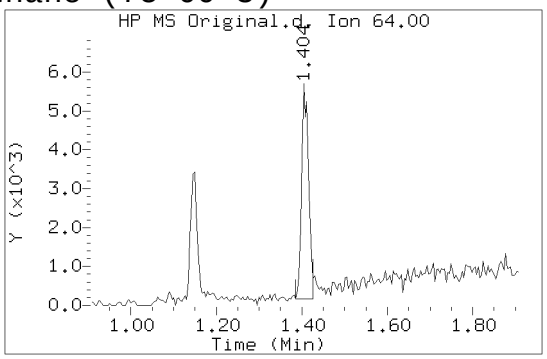
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

Chloroethane (75-00-3)

Reason Code:

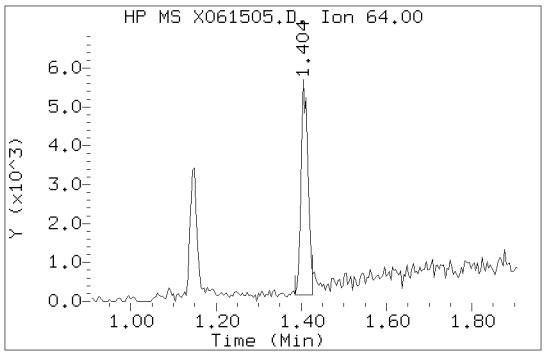
BEFORE

MASS
64
AREA
6480
HEIGHT
5531
20-Jun-2023
18:22
linh
pham



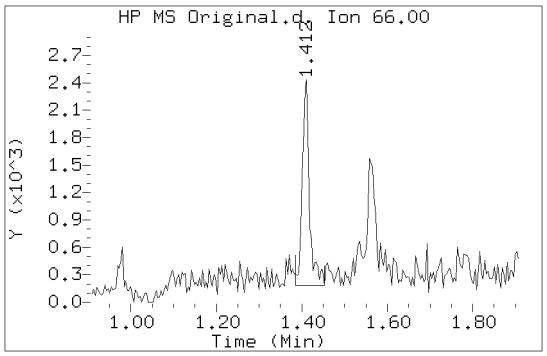
AFTER

MASS
64
AREA
6480
HEIGHT
5531
20-Jun-2023
18:22
linh
pham



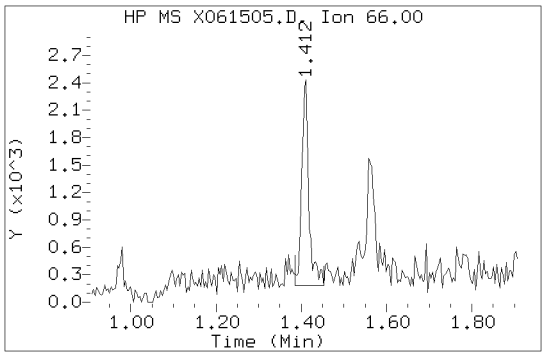
BEFORE

MASS
66
AREA
2720
HEIGHT
2251
20-Jun-2023
18:22
linh
pham



AFTER

MASS
66
AREA
2720
HEIGHT
2251
20-Jun-2023
18:22
linh
pham

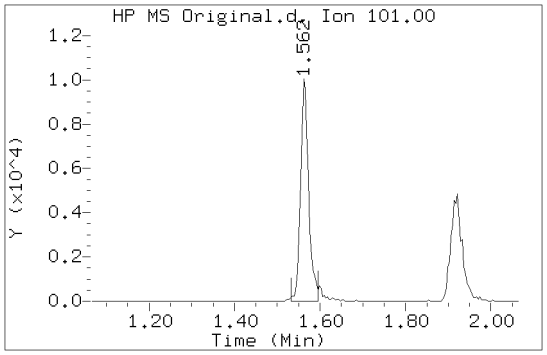


Trichlorofluoromethane (75-69-4)

Reason Code:

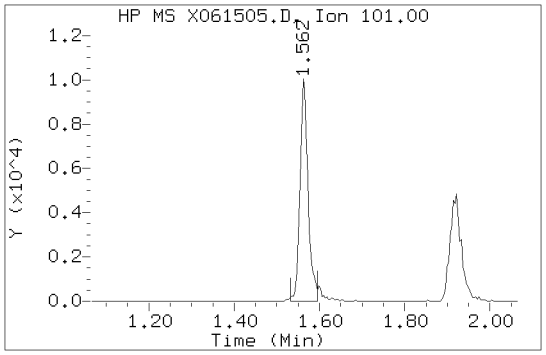
BEFORE

MASS
101
AREA
13596
HEIGHT
10043
20-Jun-2023
18:22
linh
pham



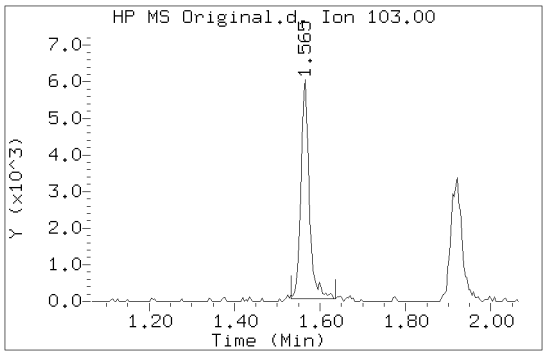
AFTER

MASS
101
AREA
13596
HEIGHT
10043
20-Jun-2023
18:22
linh
pham



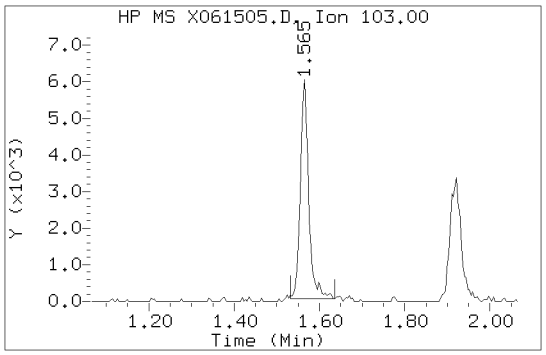
BEFORE

MASS
103
AREA
8502
HEIGHT
5995
20-Jun-2023
18:22
linh
pham



AFTER

MASS
103
AREA
8502
HEIGHT
5995
20-Jun-2023
18:22
linh
pham

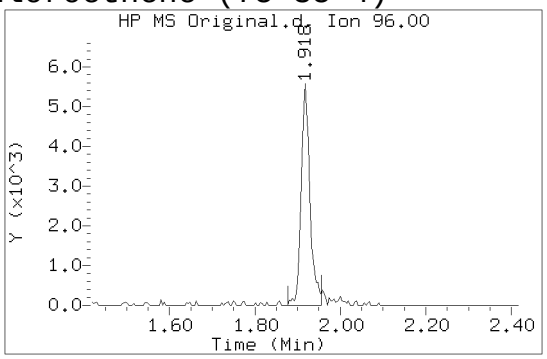


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

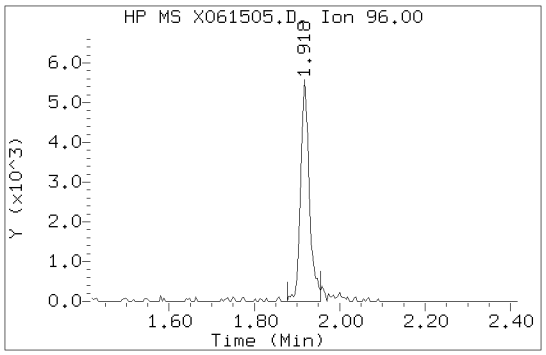
1,1-Dichloroethene (75-35-4)

Reason Code:

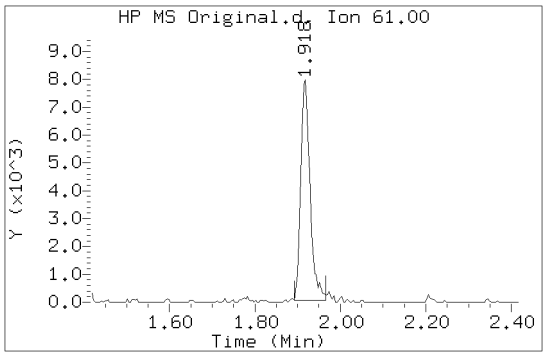
BEFORE
MASS
96
AREA
8233
HEIGHT
5577
20-Jun-2023
18:22
linh
pham



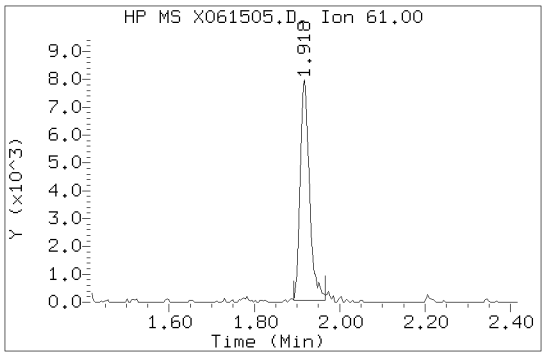
AFTER
MASS
96
AREA
8233
HEIGHT
5577
20-Jun-2023
18:22
linh
pham



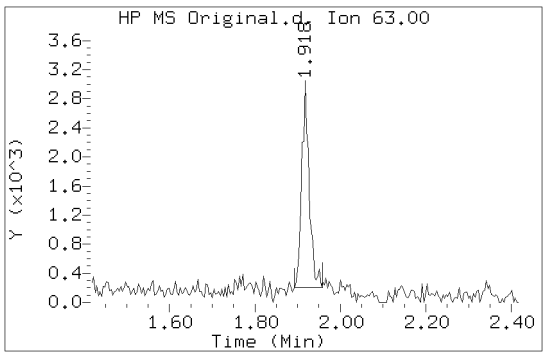
BEFORE
MASS
61
AREA
12389
HEIGHT
7918
20-Jun-2023
18:22
linh
pham



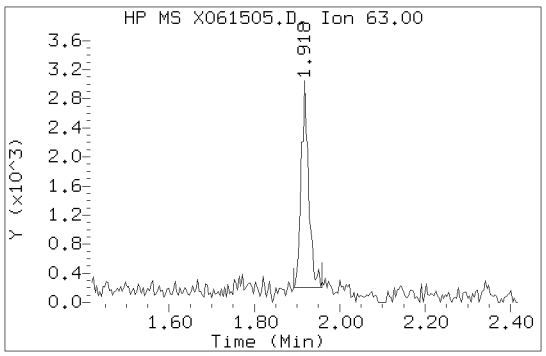
AFTER
MASS
61
AREA
12389
HEIGHT
7918
20-Jun-2023
18:22
linh
pham



BEFORE
MASS
63
AREA
3575
HEIGHT
2850
20-Jun-2023
18:22
linh
pham



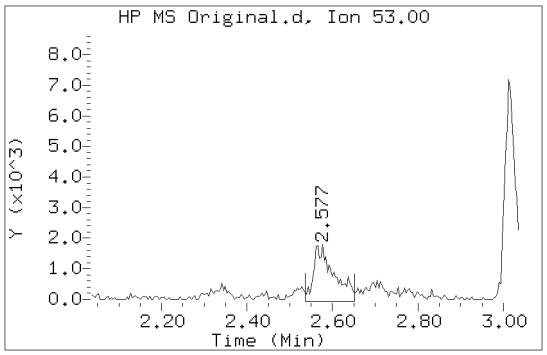
AFTER
MASS
63
AREA
3575
HEIGHT
2850
20-Jun-2023
18:22
linh
pham



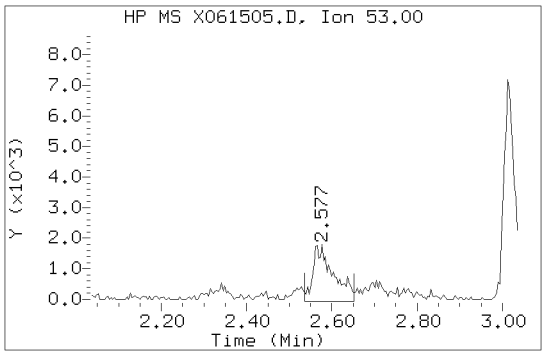
Acrylonitrile (107-13-1)

Reason Code:

BEFORE
MASS
53
AREA
6148
HEIGHT
1862
20-Jun-2023
18:22
linh
pham



AFTER
MASS
53
AREA
6148
HEIGHT
1862
20-Jun-2023
18:22
linh
pham



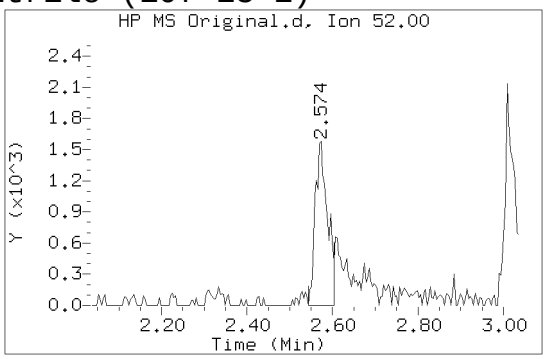
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

Acrylonitrile (107-13-1)

Reason Code:

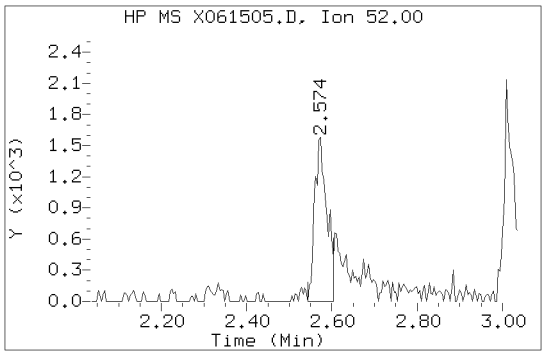
BEFORE

MASS
52
AREA
3159
HEIGHT
1580
20-Jun-2023
18:22
linh
pham



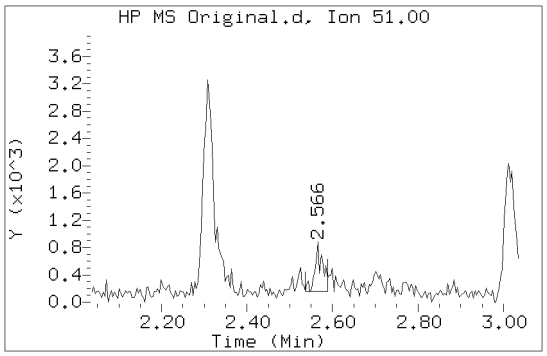
AFTER

MASS
52
AREA
3159
HEIGHT
1580
20-Jun-2023
18:22
linh
pham



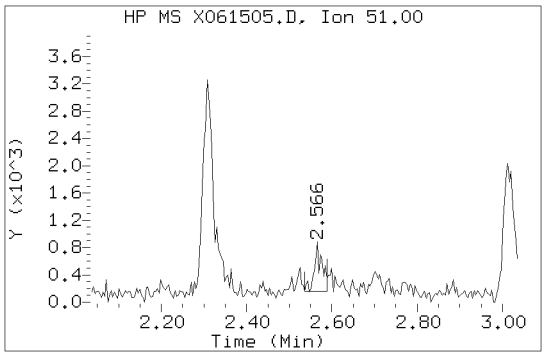
BEFORE

MASS
51
AREA
891
HEIGHT
729
20-Jun-2023
18:22
linh
pham



AFTER

MASS
51
AREA
891
HEIGHT
729
20-Jun-2023
18:22
linh
pham

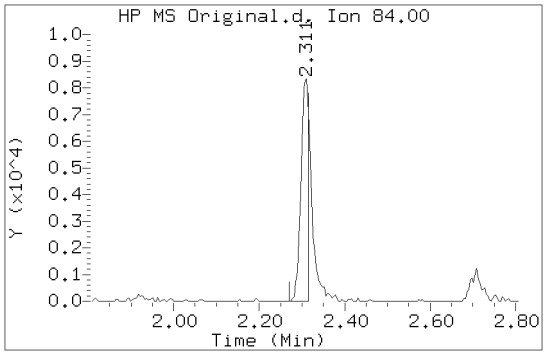


Methylene Chloride (75-09-2)

Reason Code:

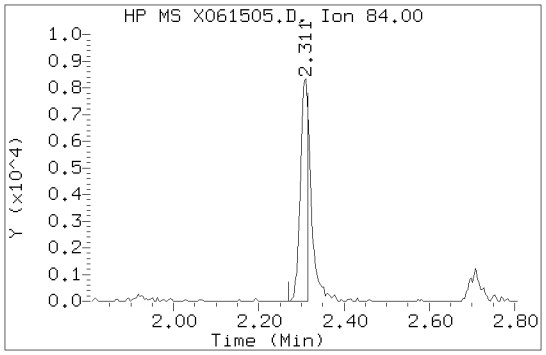
BEFORE

MASS
84
AREA
10372
HEIGHT
8340
20-Jun-2023
18:22
linh
pham



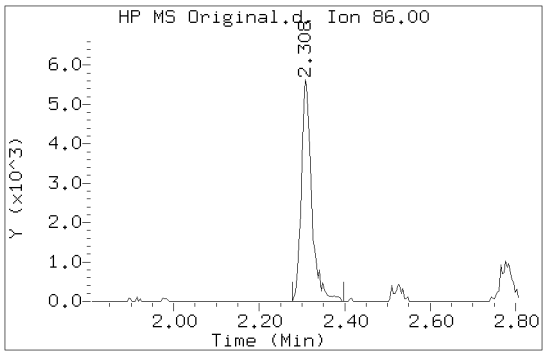
AFTER

MASS
84
AREA
10372
HEIGHT
8340
20-Jun-2023
18:22
linh
pham



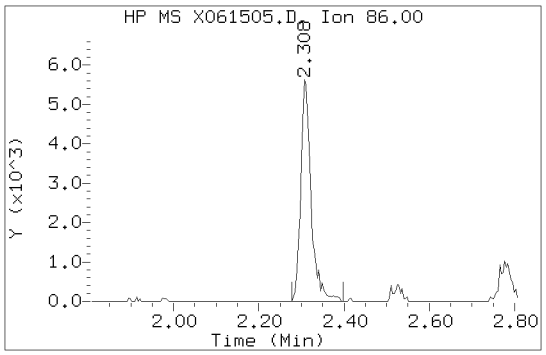
BEFORE

MASS
86
AREA
9744
HEIGHT
5630
20-Jun-2023
18:22
linh
pham



AFTER

MASS
86
AREA
9744
HEIGHT
5630
20-Jun-2023
18:22
linh
pham



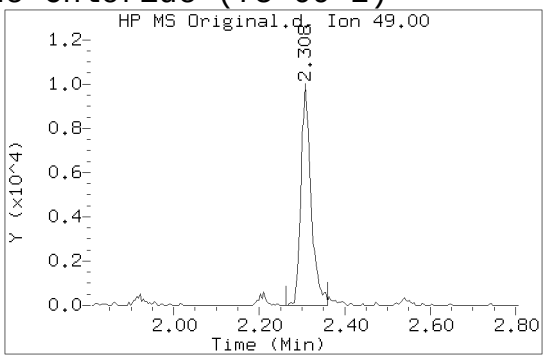
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

Methylene Chloride (75-09-2)

Reason Code:

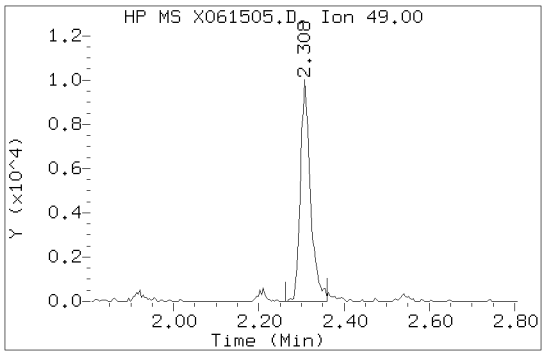
BEFORE

MASS
49
AREA
16901
HEIGHT
10016
20-Jun-2023
18:22
linh
pham



AFTER

MASS
49
AREA
16901
HEIGHT
10016
20-Jun-2023
18:22
linh
pham

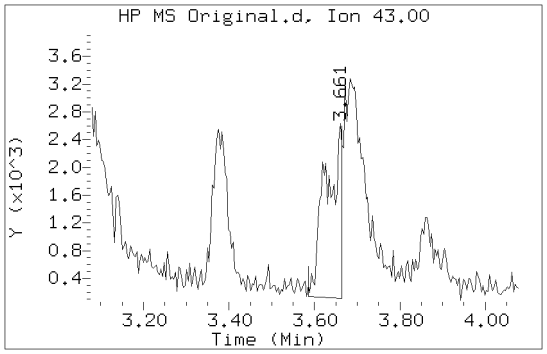


2-Butanone (78-93-3)

Reason Code:

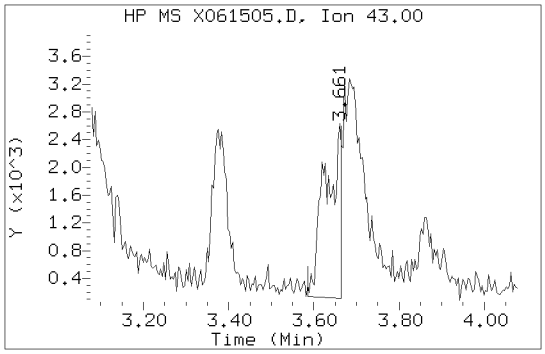
BEFORE

MASS
43
AREA
6420
HEIGHT
2515
20-Jun-2023
18:22
linh
pham



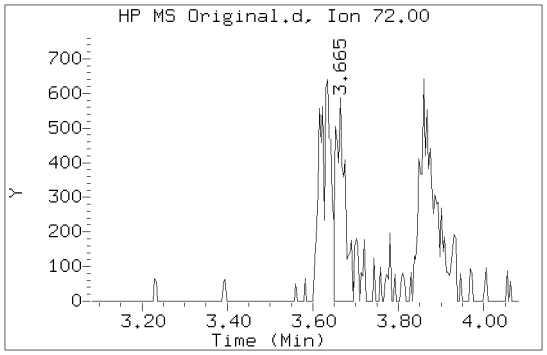
AFTER

MASS
43
AREA
6420
HEIGHT
2515
20-Jun-2023
18:22
linh
pham



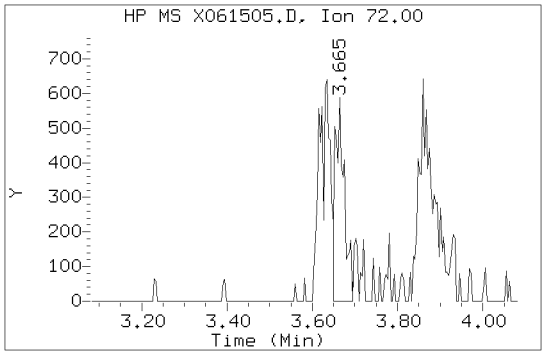
BEFORE

MASS
72
AREA
878
HEIGHT
589
20-Jun-2023
18:22
linh
pham



AFTER

MASS
72
AREA
878
HEIGHT
589
20-Jun-2023
18:22
linh
pham

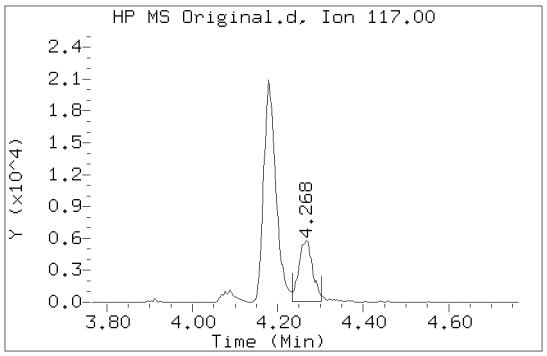


Carbon Tetrachloride (56-23-5)

Reason Code:

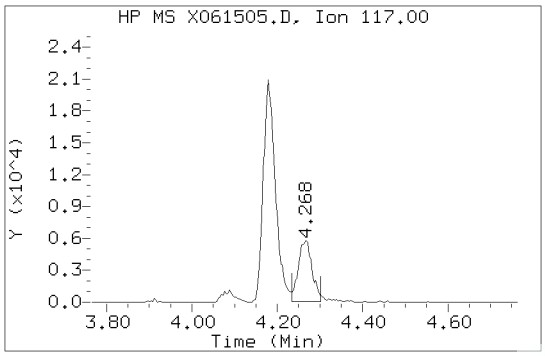
BEFORE

MASS
117
AREA
13225
HEIGHT
5768
20-Jun-2023
18:22
linh
pham



AFTER

MASS
117
AREA
13225
HEIGHT
5768
20-Jun-2023
18:22
linh
pham



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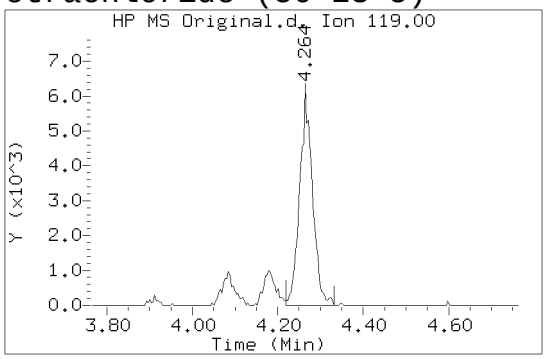
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

Carbon Tetrachloride (56-23-5)

Reason Code:

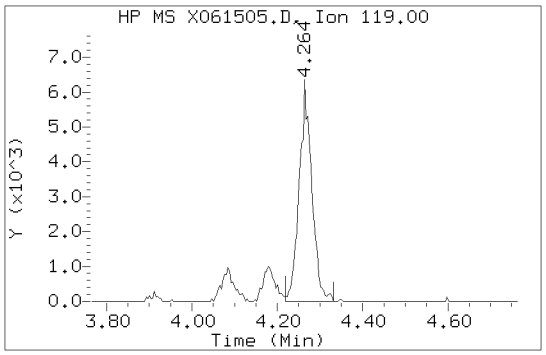
BEFORE

MASS
119
AREA
13241
HEIGHT
6356
20-Jun-2023
18:22
linh
pham



AFTER

MASS
119
AREA
13241
HEIGHT
6356
20-Jun-2023
18:22
linh
pham

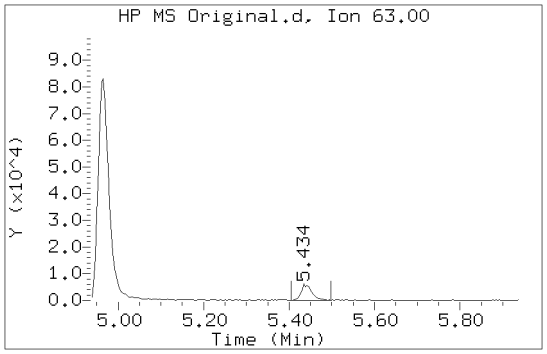


1,2-Dichloropropane (78-87-5)

Reason Code:

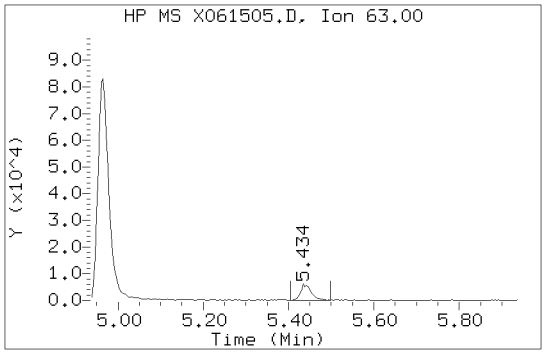
BEFORE

MASS
63
AREA
10261
HEIGHT
6073
20-Jun-2023
18:22
linh
pham



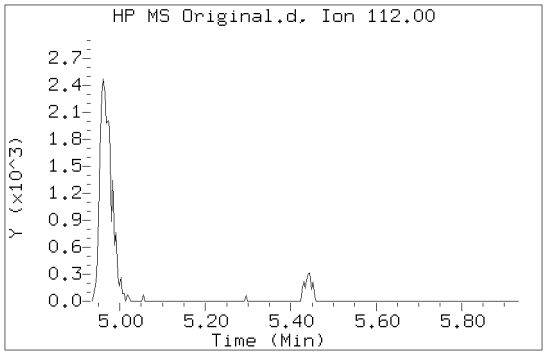
AFTER

MASS
63
AREA
10261
HEIGHT
6073
20-Jun-2023
18:22
linh
pham



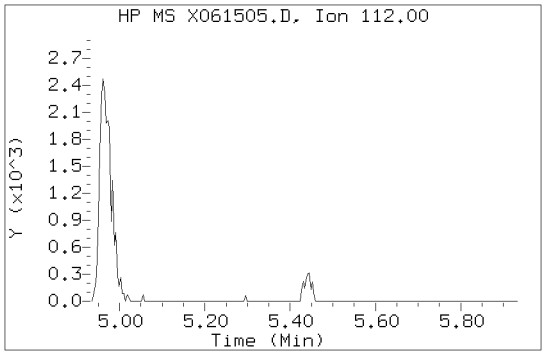
BEFORE

MASS
112
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



AFTER

MASS
112
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

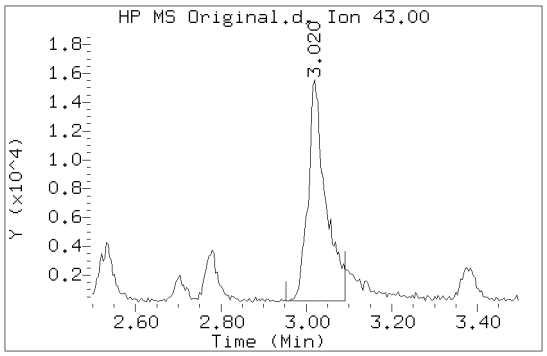


Vinyl Acetate (108-05-4)

Reason Code:

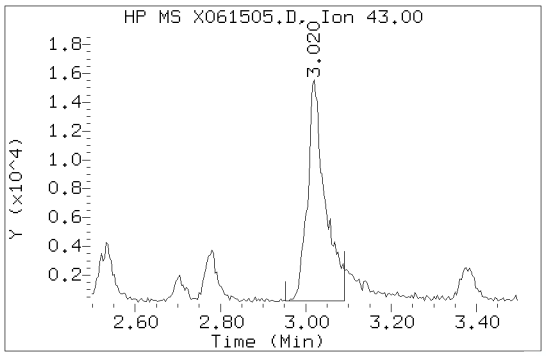
BEFORE

MASS
43
AREA
44460
HEIGHT
15343
20-Jun-2023
18:22
linh
pham



AFTER

MASS
43
AREA
44460
HEIGHT
15343
20-Jun-2023
18:22
linh
pham



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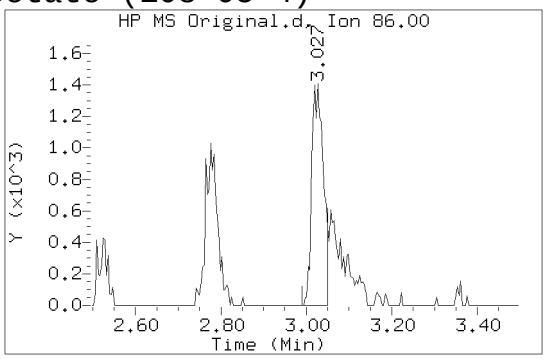
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

Vinyl Acetate (108-05-4)

Reason Code:

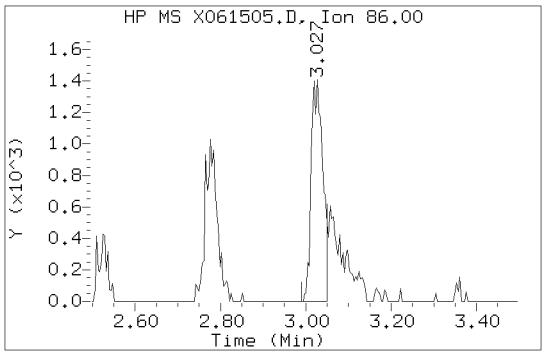
BEFORE

MASS
86
AREA
2664
HEIGHT
1408
20-Jun-2023
18:22
linh
pham



AFTER

MASS
86
AREA
2664
HEIGHT
1408
20-Jun-2023
18:22
linh
pham

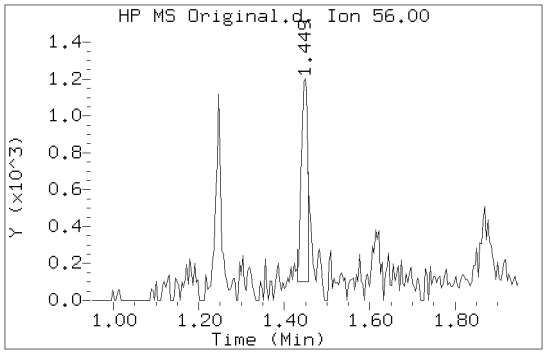


Acrolein (107-02-8)

Reason Code:

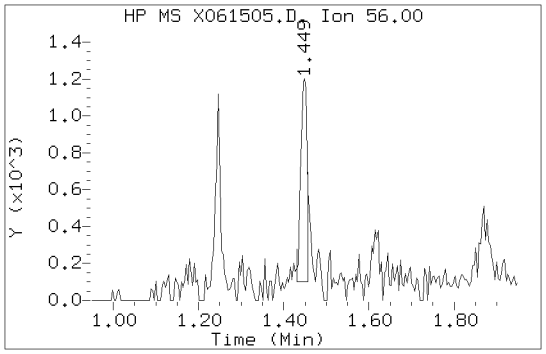
BEFORE

MASS
56
AREA
1177
HEIGHT
1102
20-Jun-2023
18:22
linh
pham



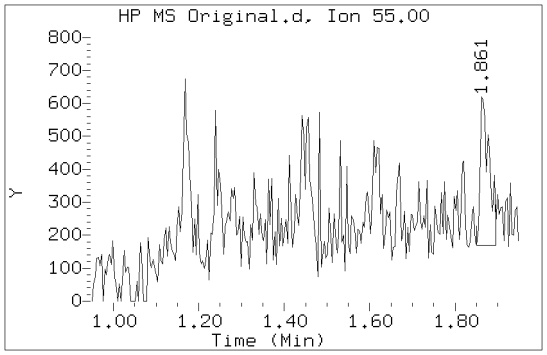
AFTER

MASS
56
AREA
1177
HEIGHT
1102
20-Jun-2023
18:22
linh
pham



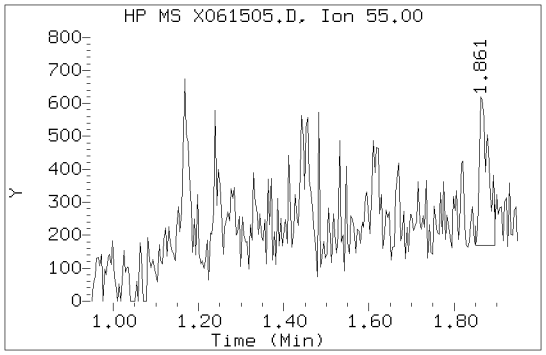
BEFORE

MASS
55
AREA
650
HEIGHT
449
20-Jun-2023
18:22
linh
pham



AFTER

MASS
55
AREA
650
HEIGHT
449
20-Jun-2023
18:22
linh
pham

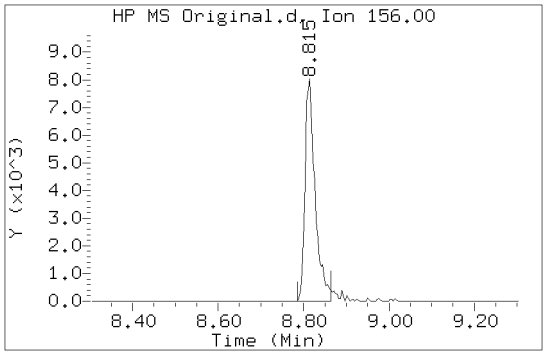


Bromobenzene (108-86-1)

Reason Code:

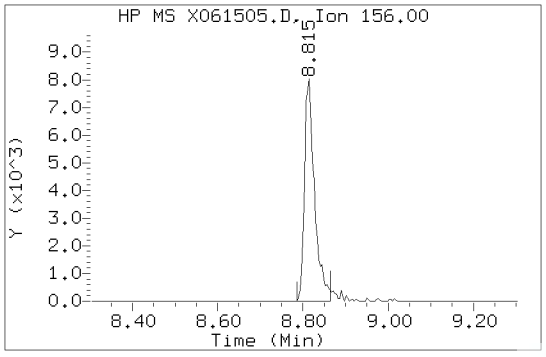
BEFORE

MASS
156
AREA
13387
HEIGHT
8032
20-Jun-2023
18:22
linh
pham



AFTER

MASS
156
AREA
13387
HEIGHT
8032
20-Jun-2023
18:22
linh
pham



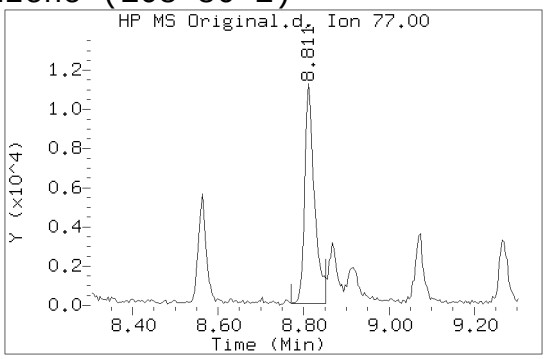
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

Bromobenzene (108-86-1)

Reason Code:

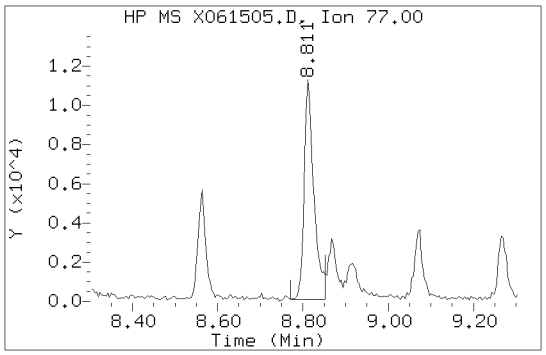
BEFORE

MASS
77
AREA
18077
HEIGHT
11211
20-Jun-2023
18:22
linh
pham



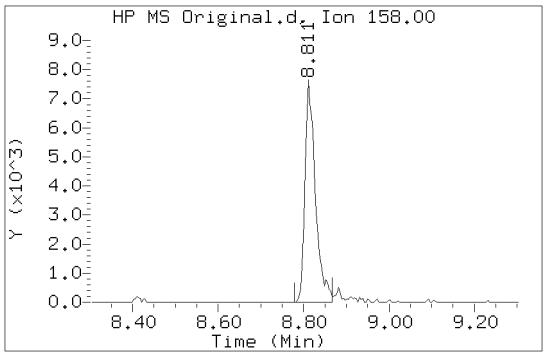
AFTER

MASS
77
AREA
18077
HEIGHT
11211
20-Jun-2023
18:22
linh
pham



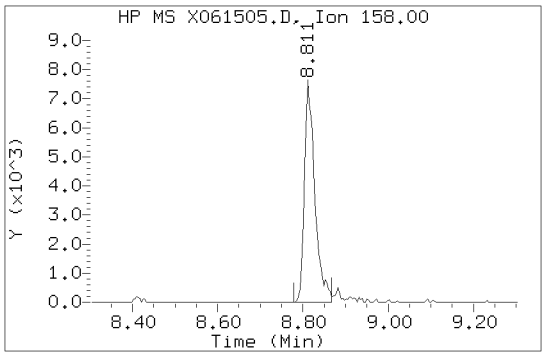
BEFORE

MASS
158
AREA
13121
HEIGHT
7648
20-Jun-2023
18:22
linh
pham



AFTER

MASS
158
AREA
13121
HEIGHT
7648
20-Jun-2023
18:22
linh
pham

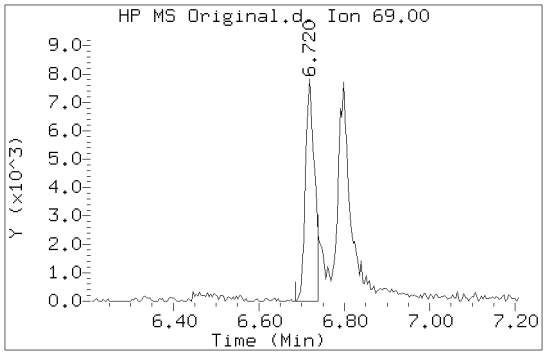


Ethyl Methacrylate (97-63-2)

Reason Code:

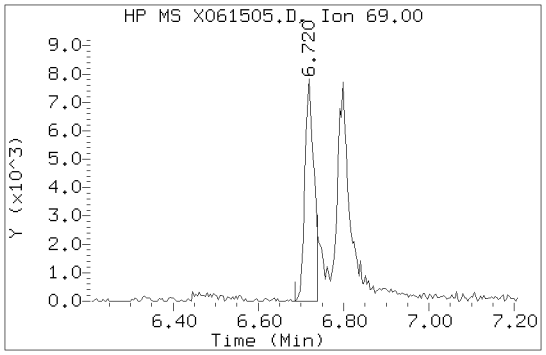
BEFORE

MASS
69
AREA
11631
HEIGHT
7830
20-Jun-2023
18:22
linh
pham



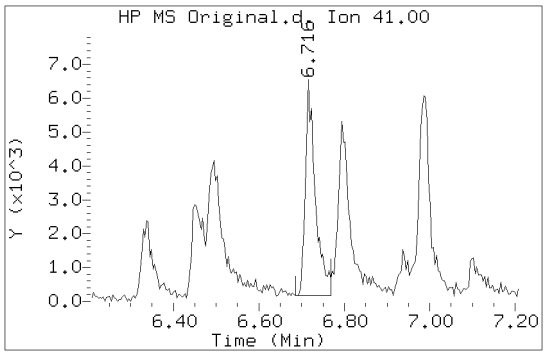
AFTER

MASS
69
AREA
11631
HEIGHT
7830
20-Jun-2023
18:22
linh
pham



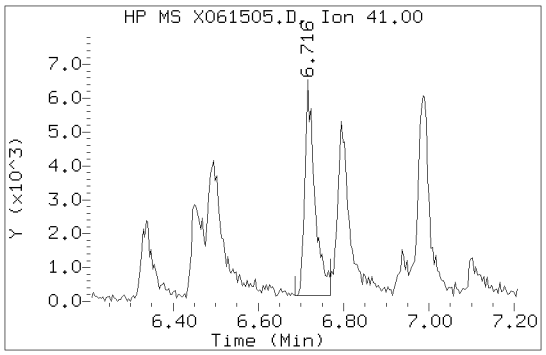
BEFORE

MASS
41
AREA
10404
HEIGHT
6367
20-Jun-2023
18:22
linh
pham



AFTER

MASS
41
AREA
10404
HEIGHT
6367
20-Jun-2023
18:22
linh
pham

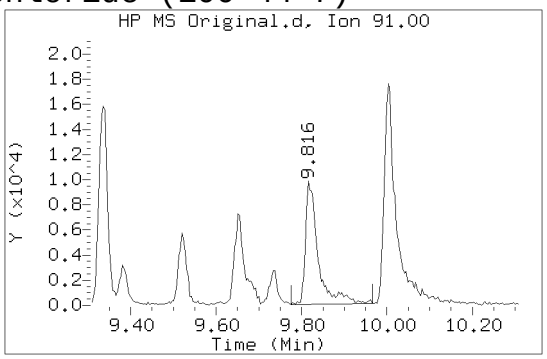


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

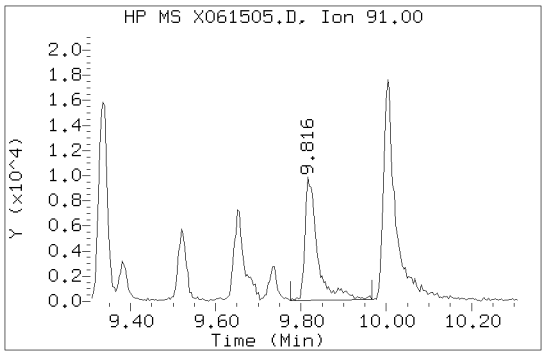
Benzyl Chloride (100-44-7)

Reason Code:

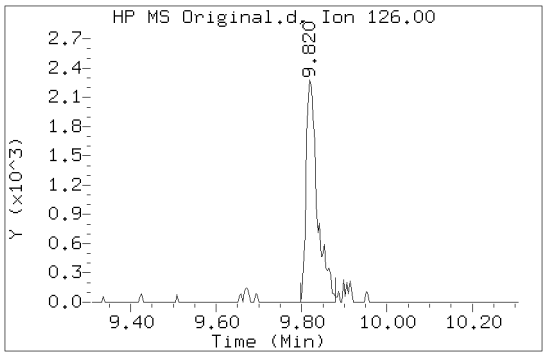
BEFORE
MASS
91
AREA
20389
HEIGHT
9812
20-Jun-2023
18:22
linh
pham



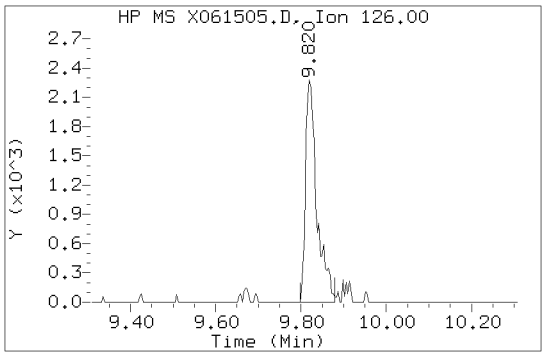
AFTER
MASS
91
AREA
20389
HEIGHT
9812
20-Jun-2023
18:22
linh
pham



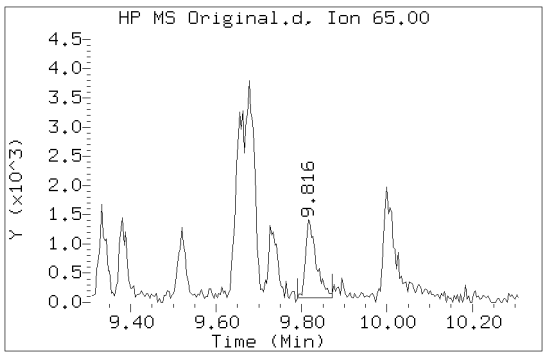
BEFORE
MASS
126
AREA
4211
HEIGHT
2279
20-Jun-2023
18:22
linh
pham



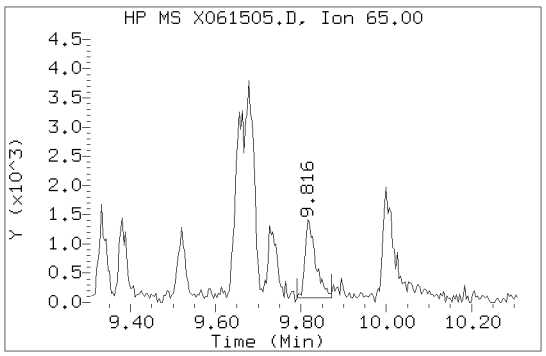
AFTER
MASS
126
AREA
4211
HEIGHT
2279
20-Jun-2023
18:22
linh
pham



BEFORE
MASS
65
AREA
2345
HEIGHT
1335
20-Jun-2023
18:22
linh
pham



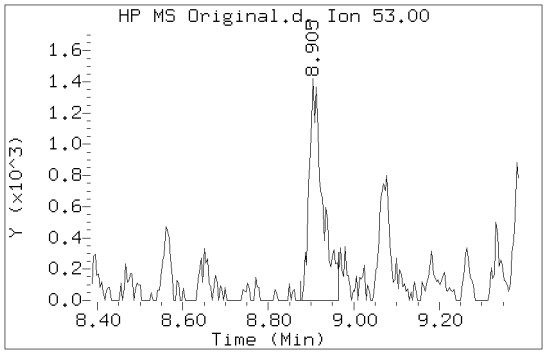
AFTER
MASS
65
AREA
2345
HEIGHT
1335
20-Jun-2023
18:22
linh
pham



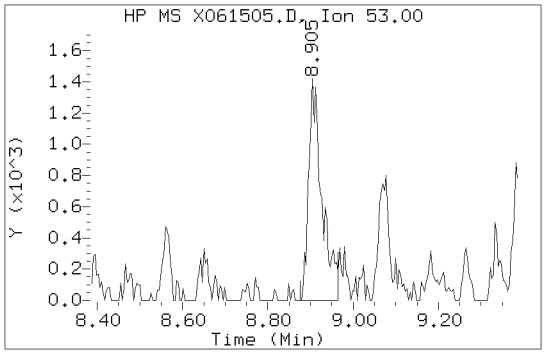
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

BEFORE
MASS
53
AREA
3093
HEIGHT
1420
20-Jun-2023
18:22
linh
pham



AFTER
MASS
53
AREA
3093
HEIGHT
1420
20-Jun-2023
18:22
linh
pham



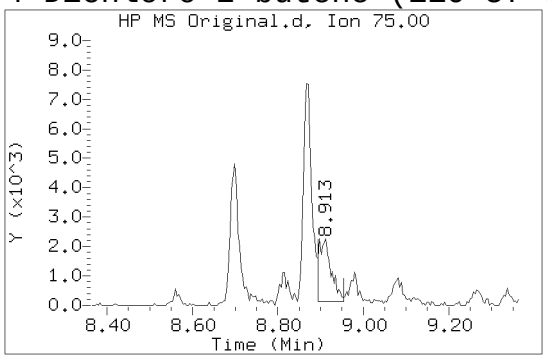
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

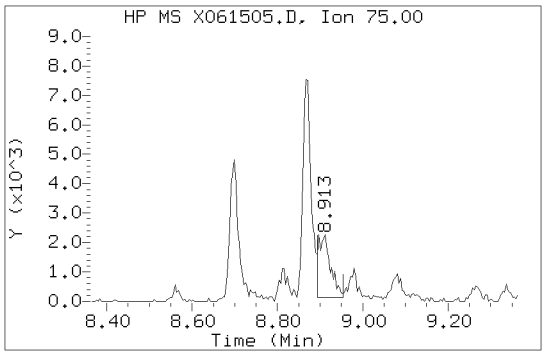
BEFORE

MASS
75
AREA
4233
HEIGHT
2139
20-Jun-2023
18:22
linh
pham



AFTER

MASS
75
AREA
4233
HEIGHT
2139
20-Jun-2023
18:22
linh
pham

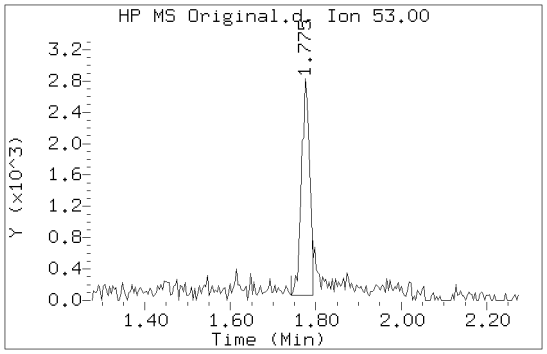


Chloroprene (126-99-8)

Reason Code:

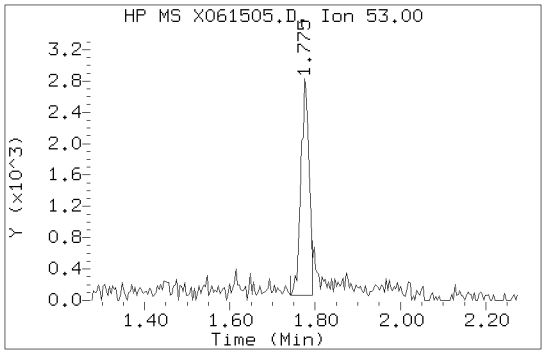
BEFORE

MASS
53
AREA
3814
HEIGHT
2765
20-Jun-2023
18:22
linh
pham



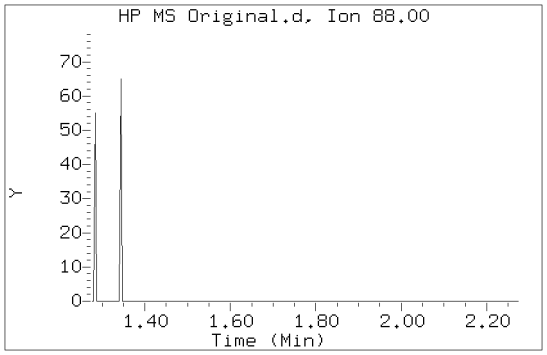
AFTER

MASS
53
AREA
3814
HEIGHT
2765
20-Jun-2023
18:22
linh
pham



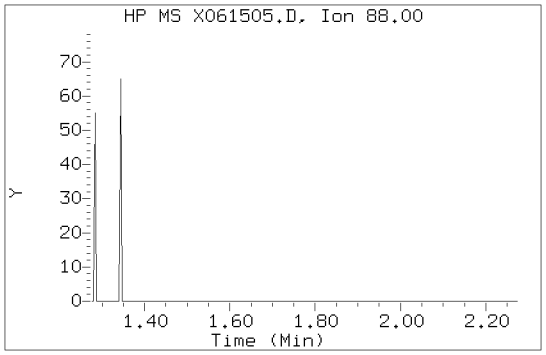
BEFORE

MASS
88
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

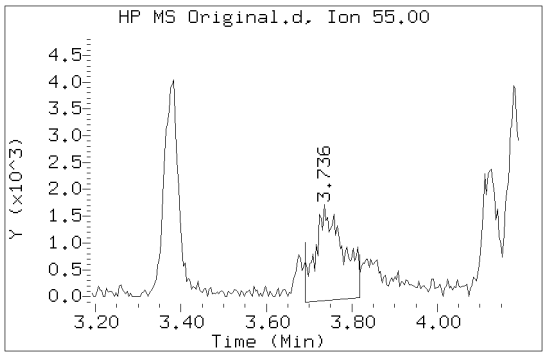


Methyl Acrylate (96-33-3)

Reason Code:

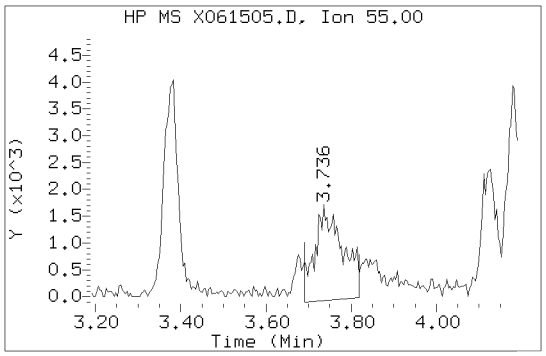
BEFORE

MASS
55
AREA
8064
HEIGHT
1791
20-Jun-2023
18:22
linh
pham



AFTER

MASS
55
AREA
8064
HEIGHT
1791
20-Jun-2023
18:22
linh
pham



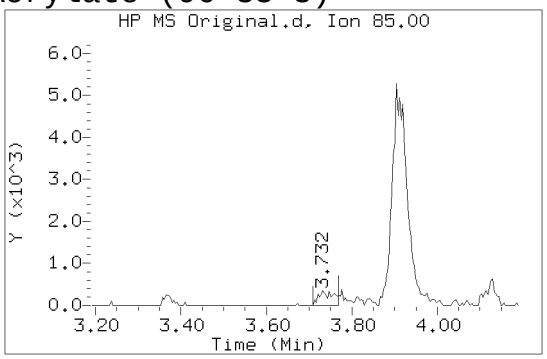
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

Methyl Acrylate (96-33-3)

Reason Code:

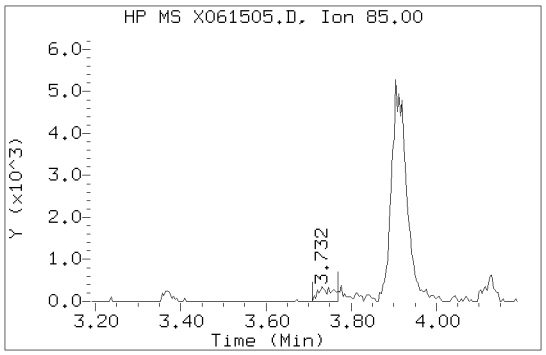
BEFORE

MASS
85
AREA
844
HEIGHT
344
20-Jun-2023
18:22
linh
pham



AFTER

MASS
85
AREA
844
HEIGHT
344
20-Jun-2023
18:22
linh
pham

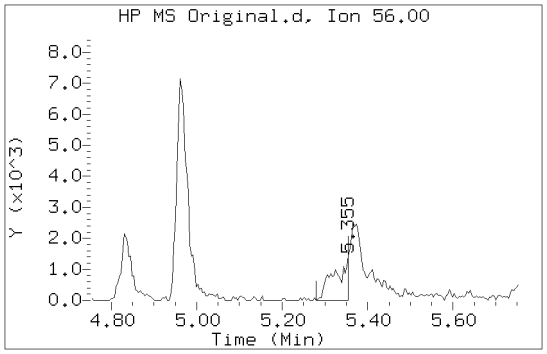


n-Butanol (71-36-3)

Reason Code:

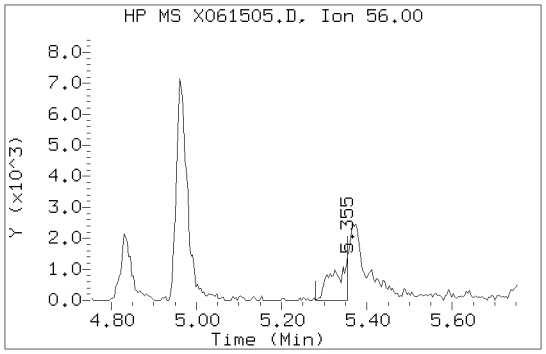
BEFORE

MASS
56
AREA
3179
HEIGHT
1448
20-Jun-2023
18:22
linh
pham



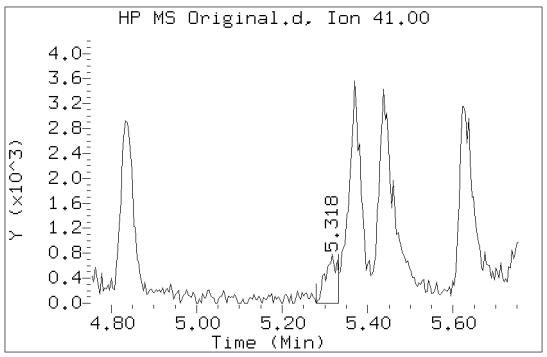
AFTER

MASS
56
AREA
3179
HEIGHT
1448
20-Jun-2023
18:22
linh
pham



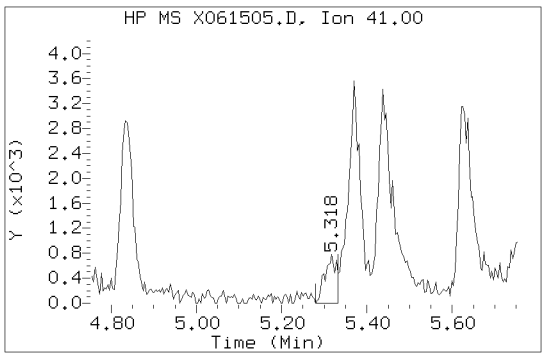
BEFORE

MASS
41
AREA
1455
HEIGHT
782
20-Jun-2023
18:22
linh
pham



AFTER

MASS
41
AREA
1455
HEIGHT
782
20-Jun-2023
18:22
linh
pham

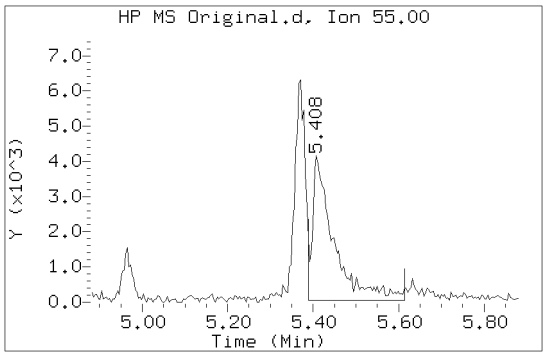


Ethyl Acrylate (140-88-5)

Reason Code:

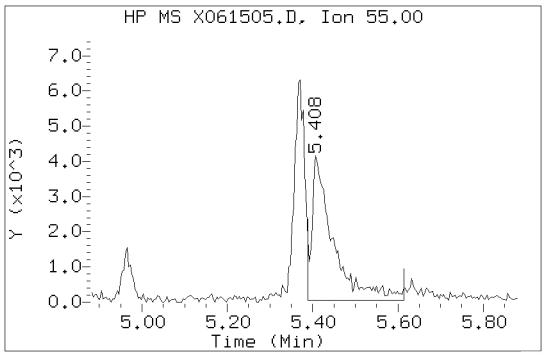
BEFORE

MASS
55
AREA
14275
HEIGHT
4107
20-Jun-2023
18:22
linh
pham



AFTER

MASS
55
AREA
14275
HEIGHT
4107
20-Jun-2023
18:22
linh
pham



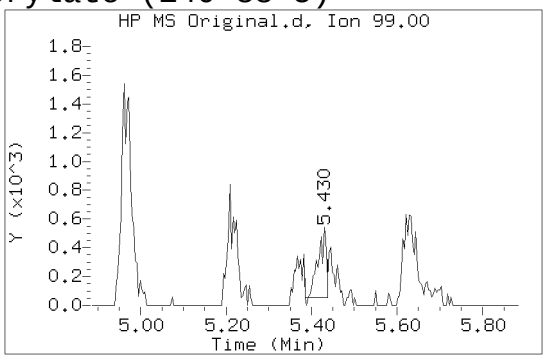
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

Ethyl Acrylate (140-88-5)

Reason Code:

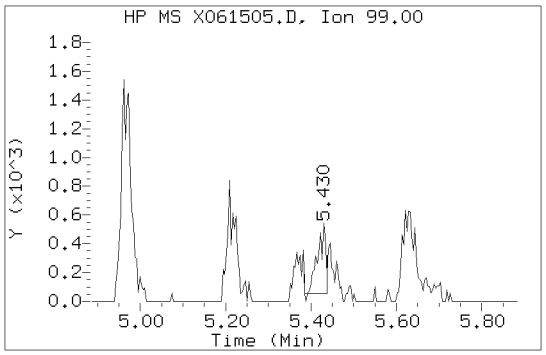
BEFORE

MASS
99
AREA
625
HEIGHT
488
20-Jun-2023
18:22
linh
pham



AFTER

MASS
99
AREA
625
HEIGHT
488
20-Jun-2023
18:22
linh
pham

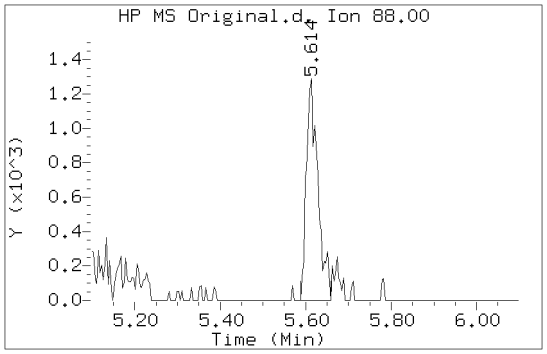


1,4-Dioxane ()

Reason Code:

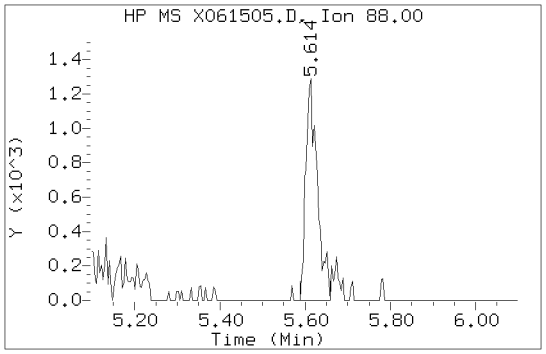
BEFORE

MASS
88
AREA
2444
HEIGHT
1289
20-Jun-2023
18:22
linh
pham



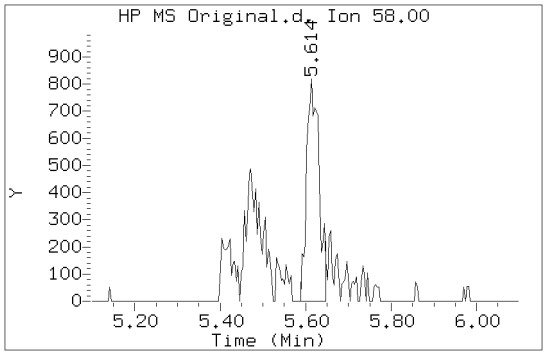
AFTER

MASS
88
AREA
2444
HEIGHT
1289
20-Jun-2023
18:22
linh
pham



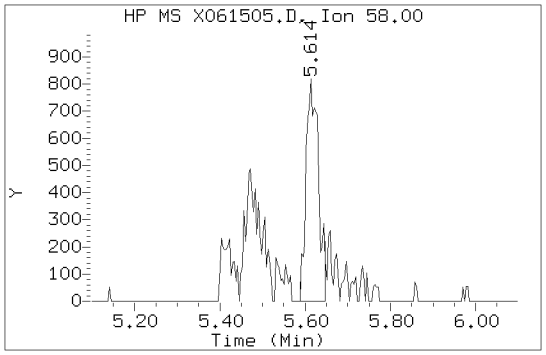
BEFORE

MASS
58
AREA
1653
HEIGHT
819
20-Jun-2023
18:22
linh
pham



AFTER

MASS
58
AREA
1653
HEIGHT
819
20-Jun-2023
18:22
linh
pham

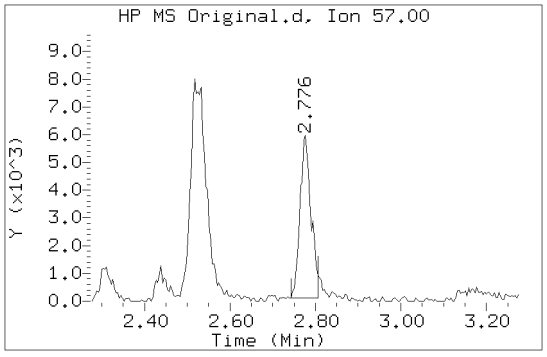


n-Hexane (110-54-3)

Reason Code:

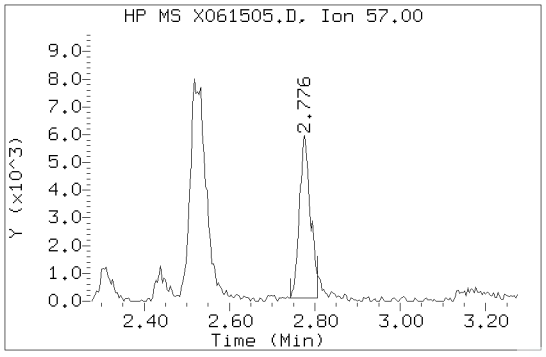
BEFORE

MASS
57
AREA
10696
HEIGHT
5866
20-Jun-2023
18:22
linh
pham



AFTER

MASS
57
AREA
10696
HEIGHT
5866
20-Jun-2023
18:22
linh
pham

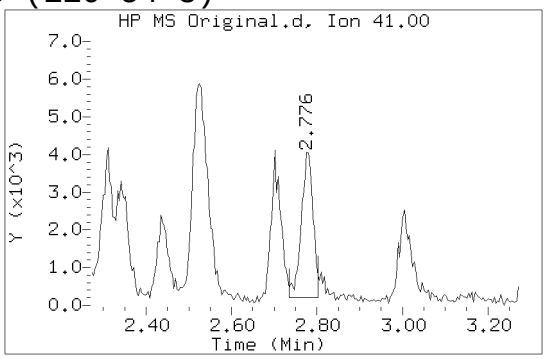


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

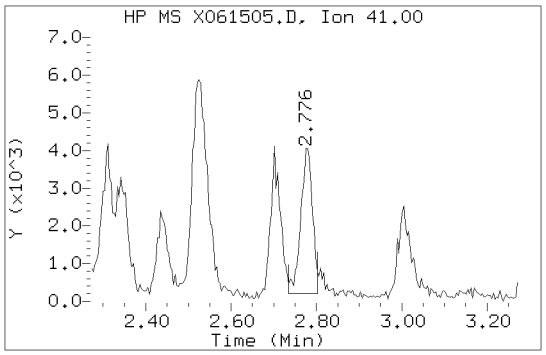
n-Hexane (110-54-3)

Reason Code:

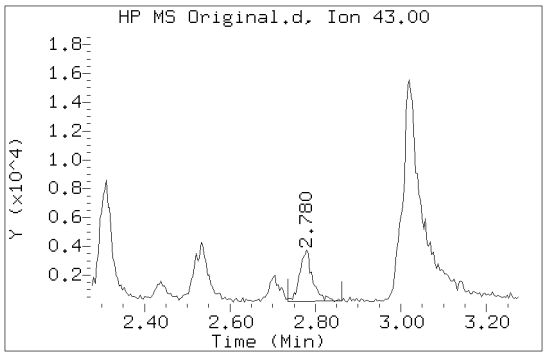
BEFORE
MASS
41
AREA
7540
HEIGHT
3854
20-Jun-2023
18:22
linh
pham



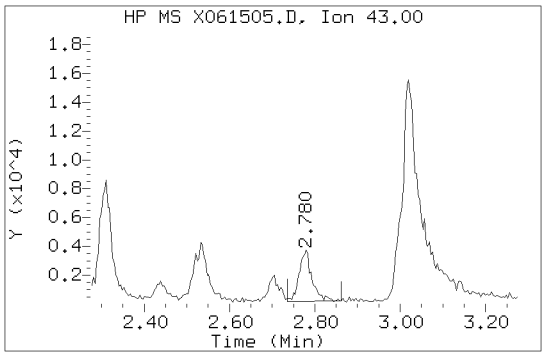
AFTER
MASS
41
AREA
7540
HEIGHT
3854
20-Jun-2023
18:22
linh
pham



BEFORE
MASS
43
AREA
7477
HEIGHT
3518
20-Jun-2023
18:22
linh
pham



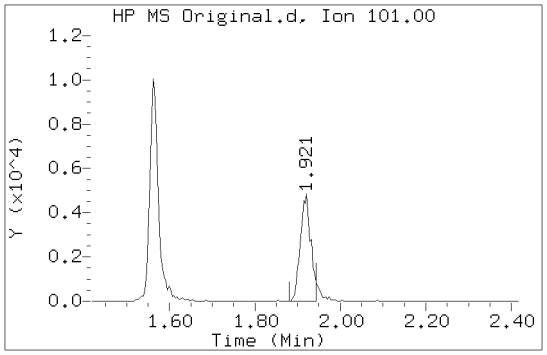
AFTER
MASS
43
AREA
7477
HEIGHT
3518
20-Jun-2023
18:22
linh
pham



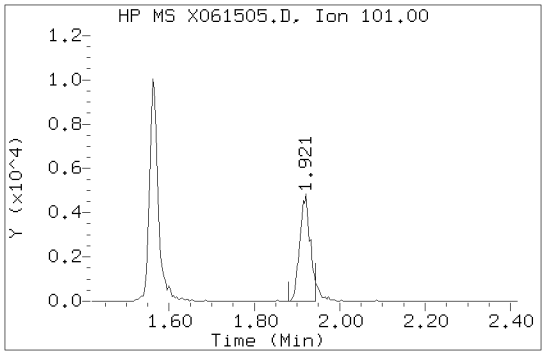
Freon TF (76-13-1)

Reason Code:

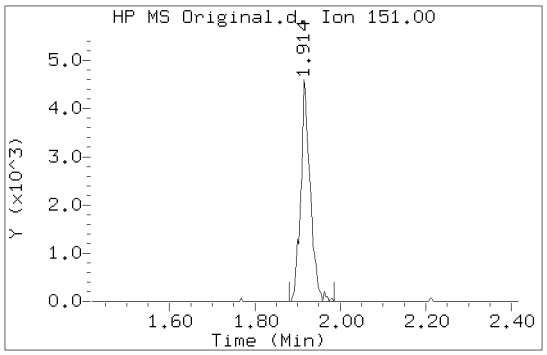
BEFORE
MASS
101
AREA
8361
HEIGHT
4850
20-Jun-2023
18:22
linh
pham



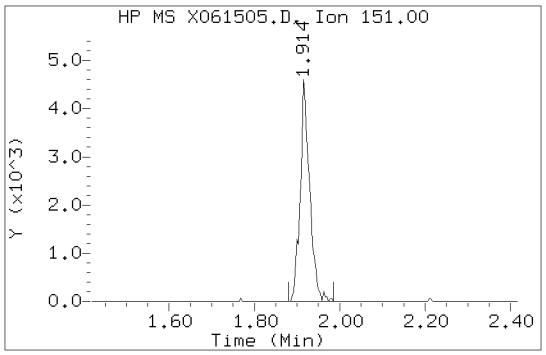
AFTER
MASS
101
AREA
8361
HEIGHT
4850
20-Jun-2023
18:22
linh
pham



BEFORE
MASS
151
AREA
7295
HEIGHT
4601
20-Jun-2023
18:22
linh
pham



AFTER
MASS
151
AREA
7295
HEIGHT
4601
20-Jun-2023
18:22
linh
pham

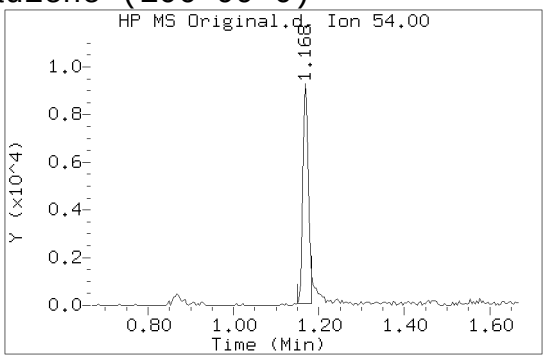


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

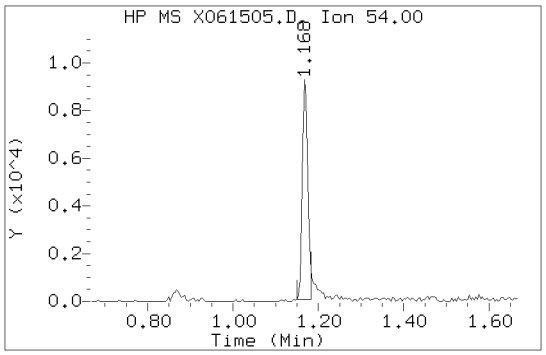
1,3-Butadiene (106-99-0)

Reason Code:

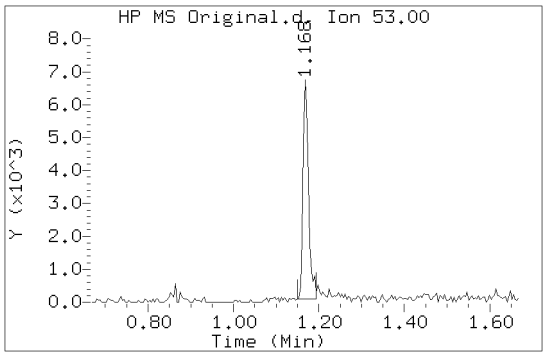
BEFORE
MASS
54
AREA
8478
HEIGHT
9216
20-Jun-2023
18:22
linh
pham



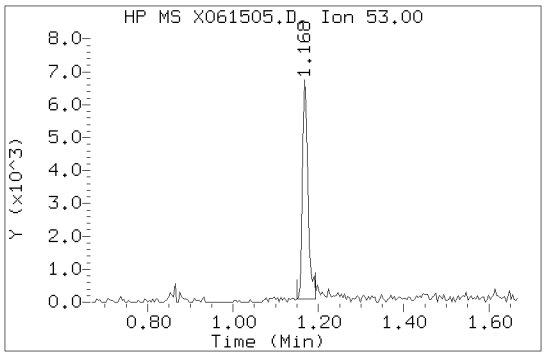
AFTER
MASS
54
AREA
8478
HEIGHT
9216
20-Jun-2023
18:22
linh
pham



BEFORE
MASS
53
AREA
6095
HEIGHT
6659
20-Jun-2023
18:22
linh
pham



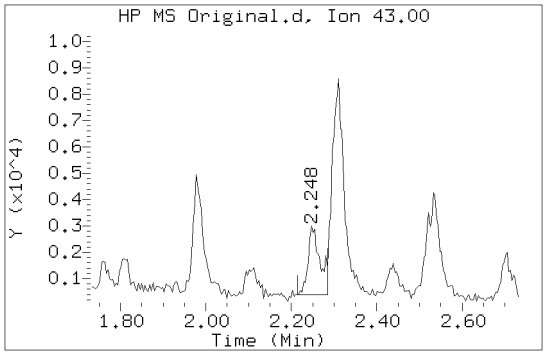
AFTER
MASS
53
AREA
6095
HEIGHT
6659
20-Jun-2023
18:22
linh
pham



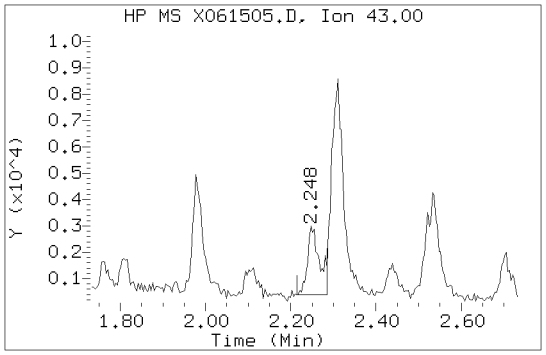
Methyl acetate (79-20-9)

Reason Code:

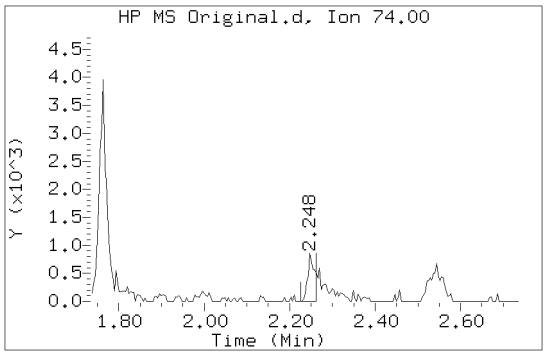
BEFORE
MASS
43
AREA
5157
HEIGHT
2617
20-Jun-2023
18:22
linh
pham



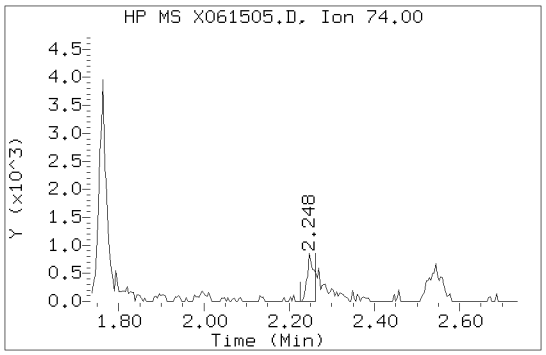
AFTER
MASS
43
AREA
5157
HEIGHT
2617
20-Jun-2023
18:22
linh
pham



BEFORE
MASS
74
AREA
940
HEIGHT
855
20-Jun-2023
18:22
linh
pham



AFTER
MASS
74
AREA
940
HEIGHT
855
20-Jun-2023
18:22
linh
pham

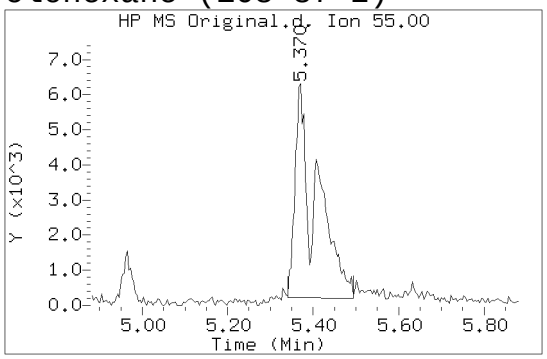


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

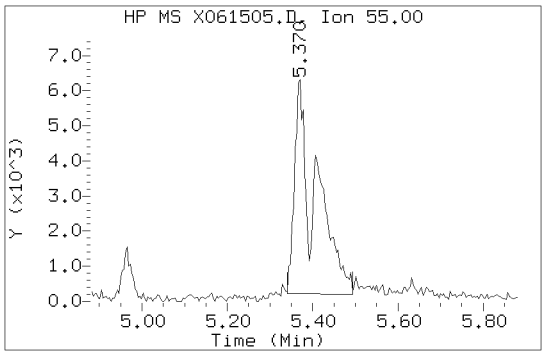
Methylcyclohexane (108-87-2)

Reason Code:

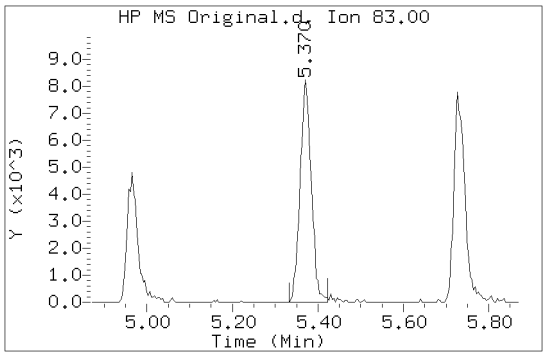
BEFORE
MASS
55
AREA
20990
HEIGHT
6091
20-Jun-2023
18:22
linh
pham



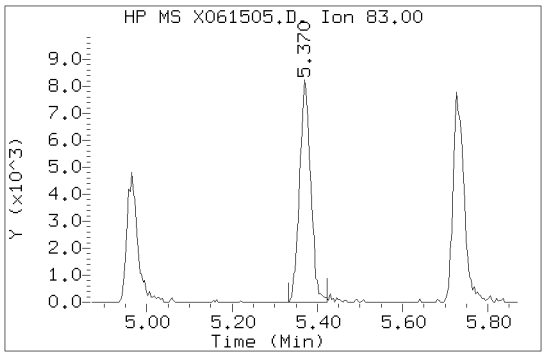
AFTER
MASS
55
AREA
20990
HEIGHT
6091
20-Jun-2023
18:22
linh
pham



BEFORE
MASS
83
AREA
15282
HEIGHT
8235
20-Jun-2023
18:22
linh
pham



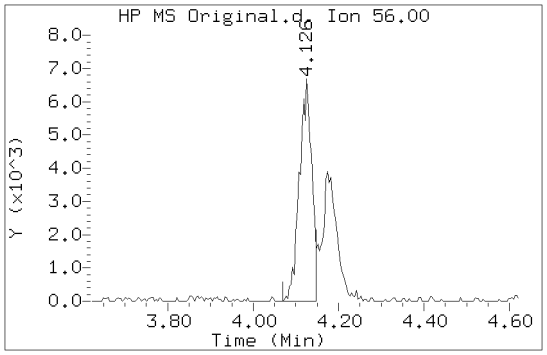
AFTER
MASS
83
AREA
15282
HEIGHT
8235
20-Jun-2023
18:22
linh
pham



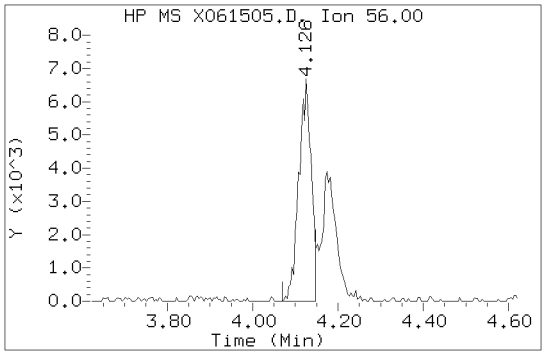
Cyclohexane (110-82-7)

Reason Code:

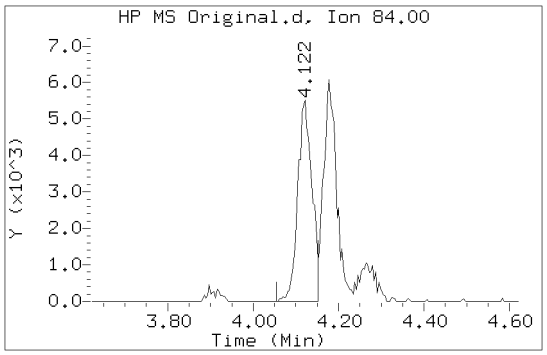
BEFORE
MASS
56
AREA
13787
HEIGHT
6686
20-Jun-2023
18:22
linh
pham



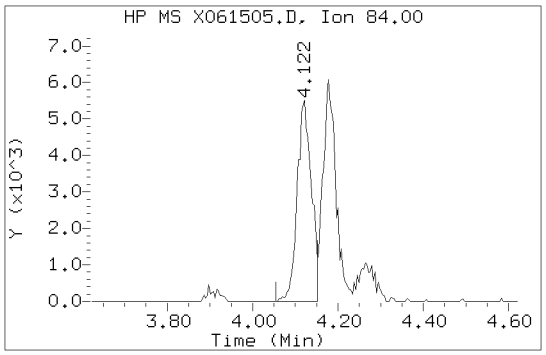
AFTER
MASS
56
AREA
13787
HEIGHT
6686
20-Jun-2023
18:22
linh
pham



BEFORE
MASS
84
AREA
12922
HEIGHT
5508
20-Jun-2023
18:22
linh
pham



AFTER
MASS
84
AREA
12922
HEIGHT
5508
20-Jun-2023
18:22
linh
pham



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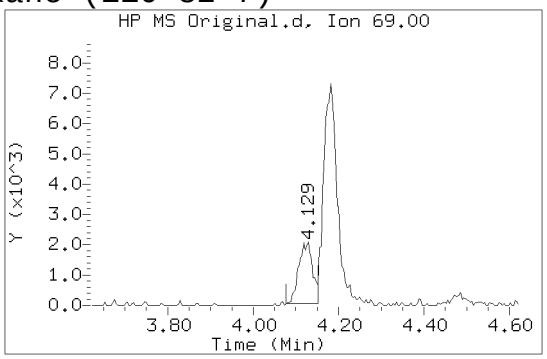
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

Cyclohexane (110-82-7)

Reason Code:

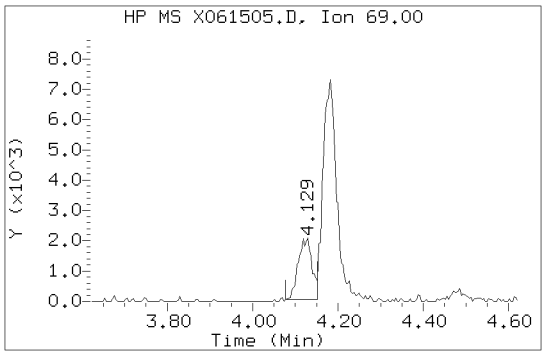
BEFORE

MASS
69
AREA
4668
HEIGHT
2038
20-Jun-2023
18:22
linh
pham



AFTER

MASS
69
AREA
4668
HEIGHT
2038
20-Jun-2023
18:22
linh
pham

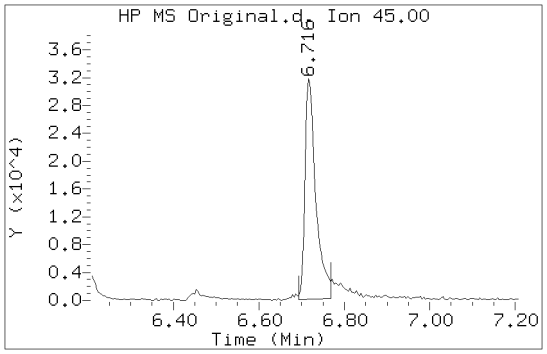


4-Methyl-2-pentanol (108-11-2)

Reason Code:

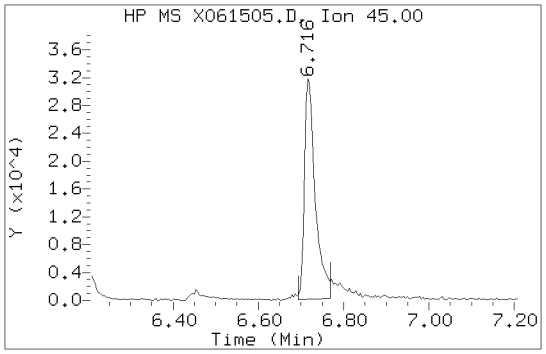
BEFORE

MASS
45
AREA
56864
HEIGHT
31680
20-Jun-2023
18:22
linh
pham



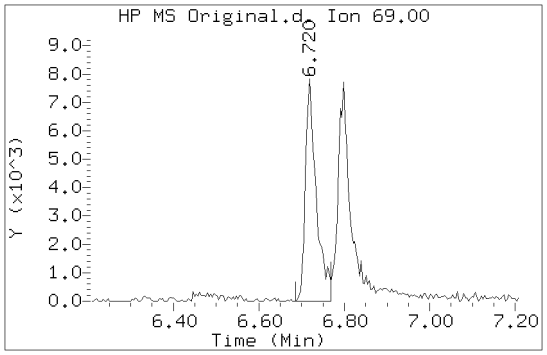
AFTER

MASS
45
AREA
56864
HEIGHT
31680
20-Jun-2023
18:22
linh
pham



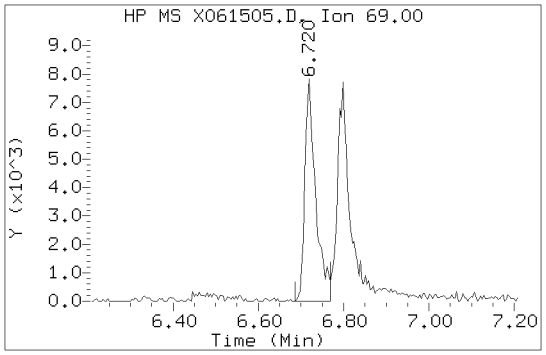
BEFORE

MASS
69
AREA
14049
HEIGHT
7830
20-Jun-2023
18:22
linh
pham



AFTER

MASS
69
AREA
14049
HEIGHT
7830
20-Jun-2023
18:22
linh
pham

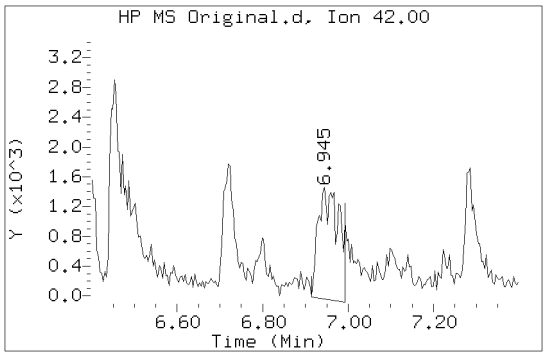


Amyl alcohol (71-41-0)

Reason Code:

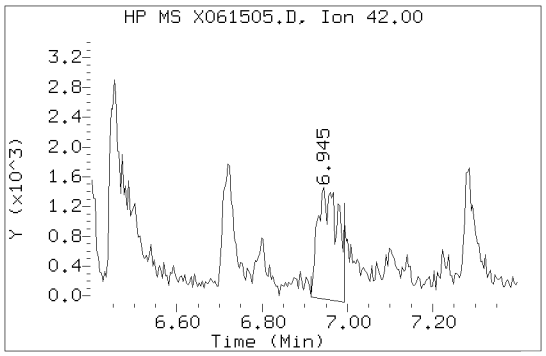
BEFORE

MASS
42
AREA
5090
HEIGHT
1499
20-Jun-2023
18:22
linh
pham



AFTER

MASS
42
AREA
5090
HEIGHT
1499
20-Jun-2023
18:22
linh
pham



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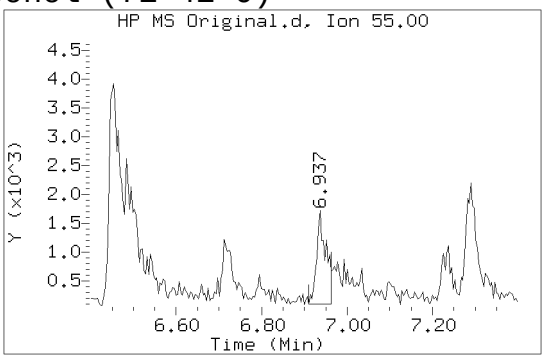
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

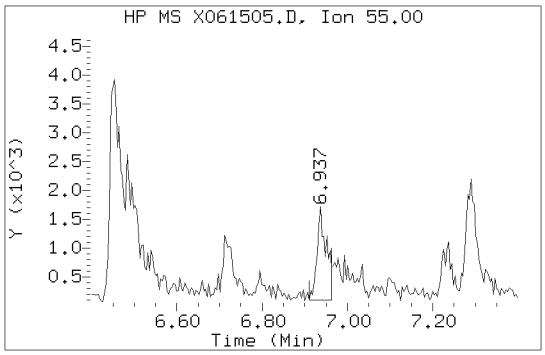
Amyl alcohol (71-41-0)

Reason Code:

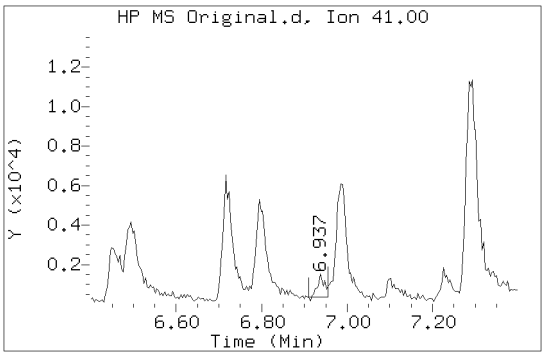
BEFORE
MASS
55
AREA
2484
HEIGHT
1619
20-Jun-2023
18:22
linh
pham



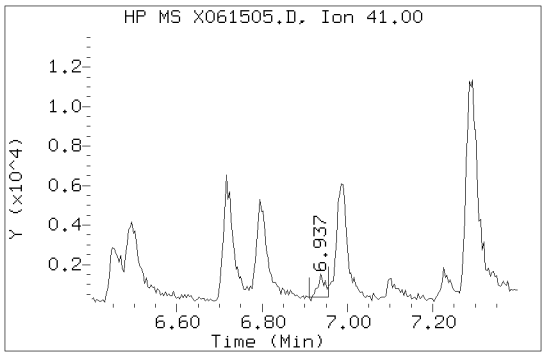
AFTER
MASS
55
AREA
2484
HEIGHT
1619
20-Jun-2023
18:22
linh
pham



BEFORE
MASS
41
AREA
1377
HEIGHT
1194
20-Jun-2023
18:22
linh
pham



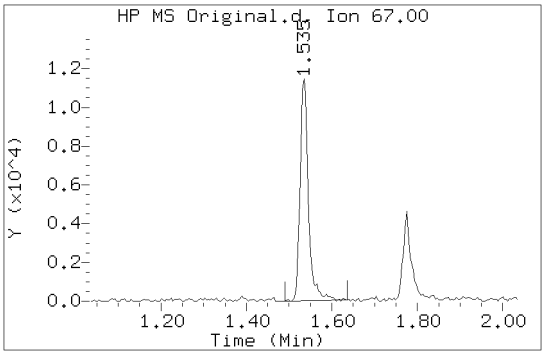
AFTER
MASS
41
AREA
1377
HEIGHT
1194
20-Jun-2023
18:22
linh
pham



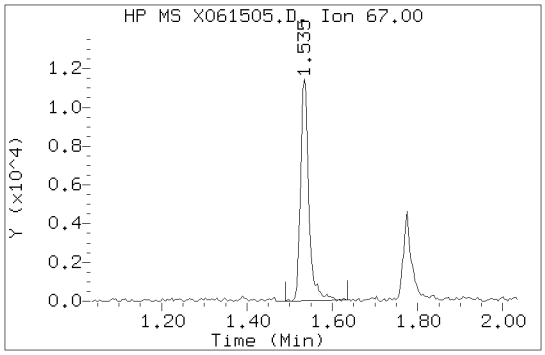
Dichlorofluoromethane (75-43-4)

Reason Code:

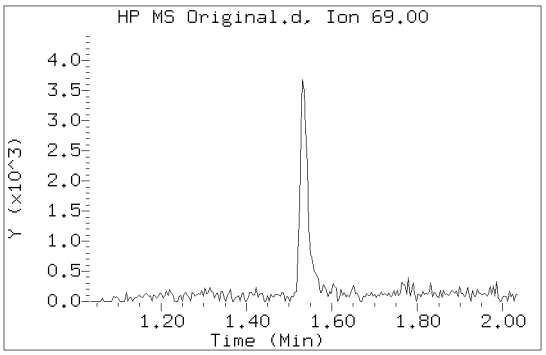
BEFORE
MASS
67
AREA
15880
HEIGHT
11454
20-Jun-2023
18:22
linh
pham



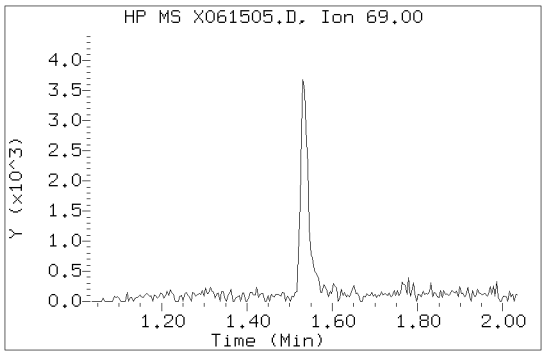
AFTER
MASS
67
AREA
15880
HEIGHT
11454
20-Jun-2023
18:22
linh
pham



BEFORE
MASS
69
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



AFTER
MASS
69
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



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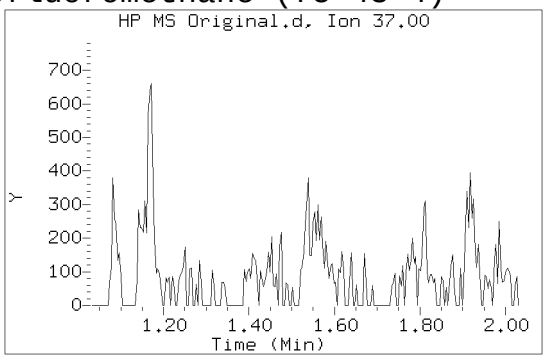
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

Dichlorofluoromethane (75-43-4)

Reason Code:

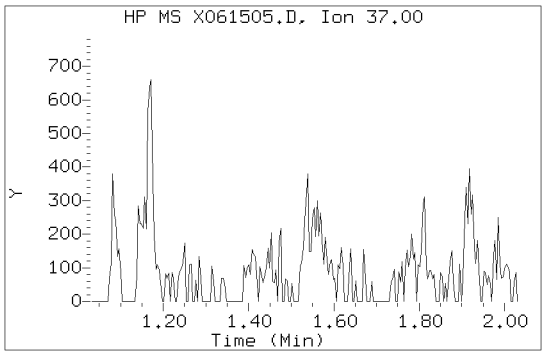
BEFORE

MASS
37
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



AFTER

MASS
37
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

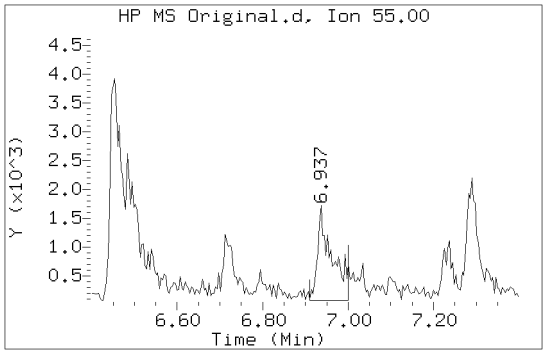


3-Methyl-1-butanol (123-51-3)

Reason Code:

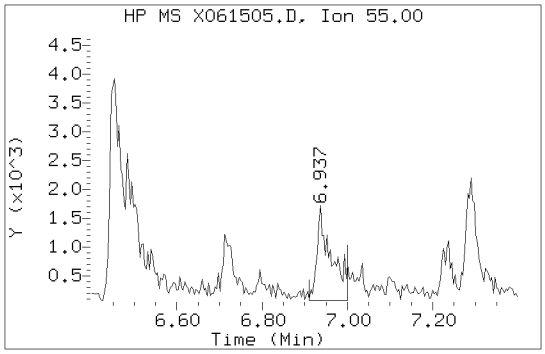
BEFORE

MASS
55
AREA
3850
HEIGHT
1643
20-Jun-2023
18:22
linh
pham



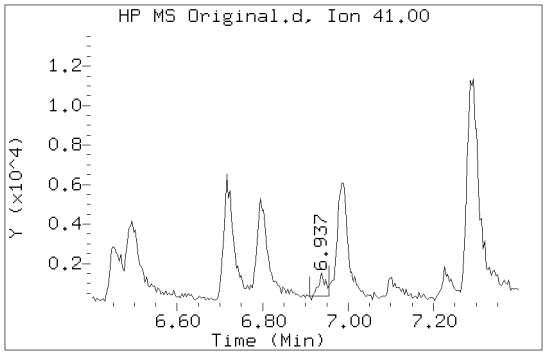
AFTER

MASS
55
AREA
3850
HEIGHT
1643
20-Jun-2023
18:22
linh
pham



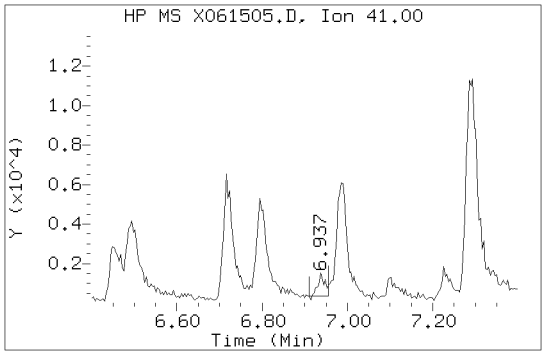
BEFORE

MASS
41
AREA
1377
HEIGHT
1194
20-Jun-2023
18:22
linh
pham



AFTER

MASS
41
AREA
1377
HEIGHT
1194
20-Jun-2023
18:22
linh
pham

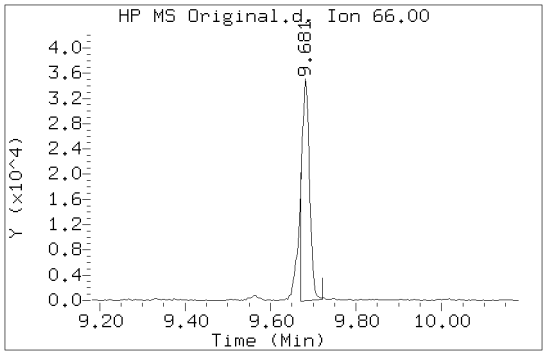


Dicyclopentadiene (77-73-6)

Reason Code:

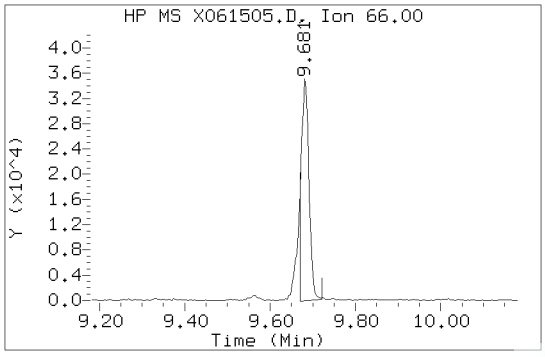
BEFORE

MASS
66
AREA
45923
HEIGHT
35155
20-Jun-2023
18:22
linh
pham



AFTER

MASS
66
AREA
45923
HEIGHT
35155
20-Jun-2023
18:22
linh
pham



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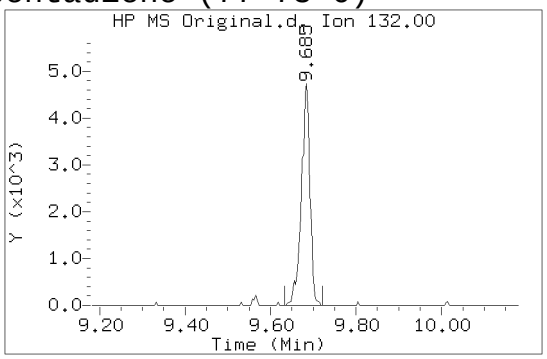
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

Dicyclopentadiene (77-73-6)

Reason Code:

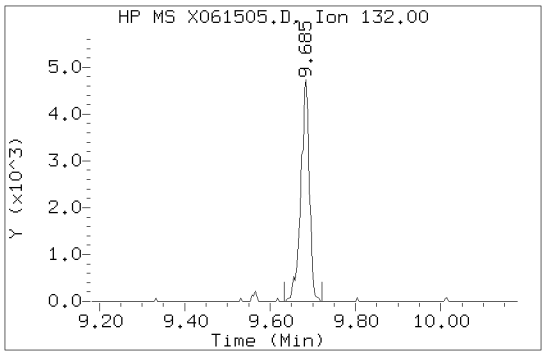
BEFORE

MASS
132
AREA
6793
HEIGHT
4734
20-Jun-2023
18:22
linh
pham



AFTER

MASS
132
AREA
6793
HEIGHT
4734
20-Jun-2023
18:22
linh
pham

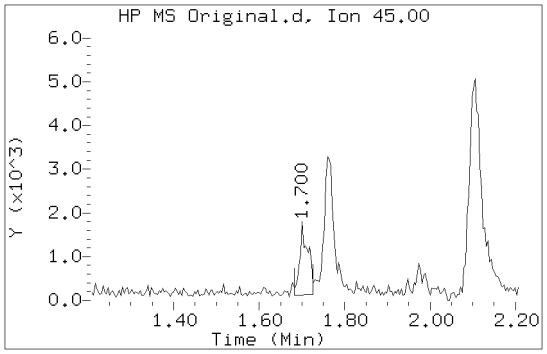


Ethanol (64-17-5)

Reason Code:

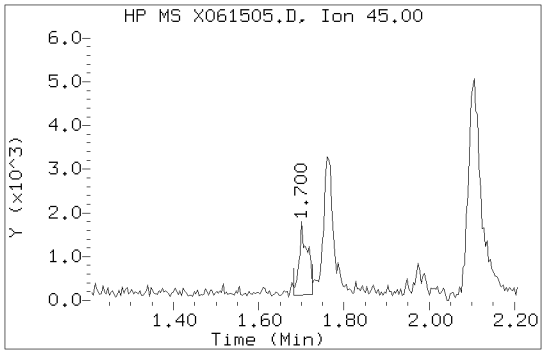
BEFORE

MASS
45
AREA
2336
HEIGHT
1678
20-Jun-2023
18:22
linh
pham



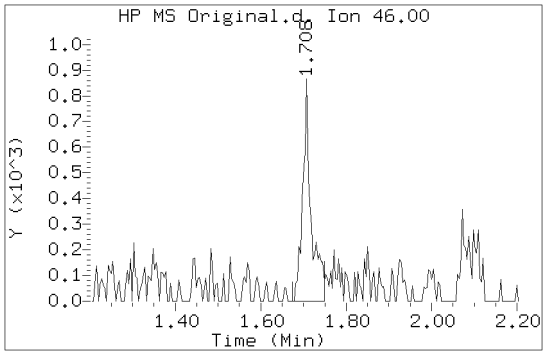
AFTER

MASS
45
AREA
2336
HEIGHT
1678
20-Jun-2023
18:22
linh
pham



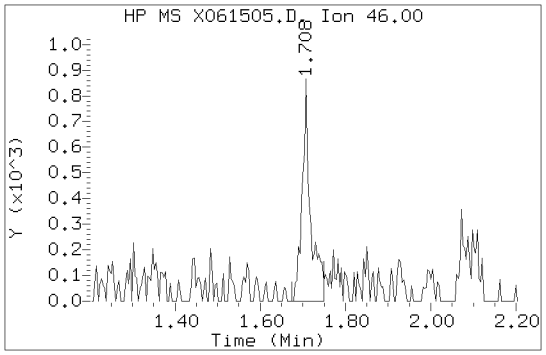
BEFORE

MASS
46
AREA
1210
HEIGHT
866
20-Jun-2023
18:22
linh
pham



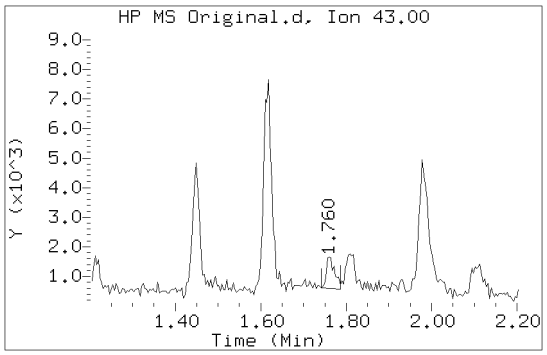
AFTER

MASS
46
AREA
1210
HEIGHT
866
20-Jun-2023
18:22
linh
pham



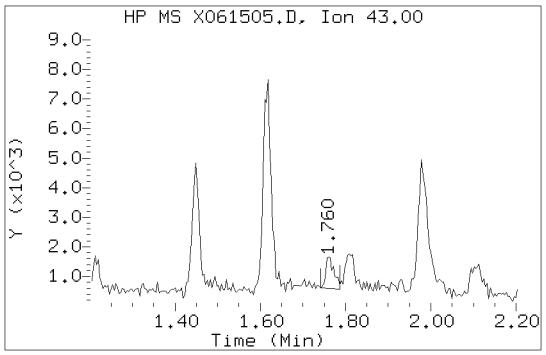
BEFORE

MASS
43
AREA
1441
HEIGHT
1055
20-Jun-2023
18:22
linh
pham



AFTER

MASS
43
AREA
1441
HEIGHT
1055
20-Jun-2023
18:22
linh
pham



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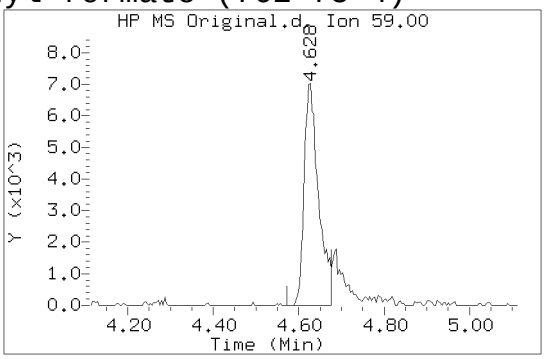
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

tert-Butyl formate (762-75-4)

Reason Code:

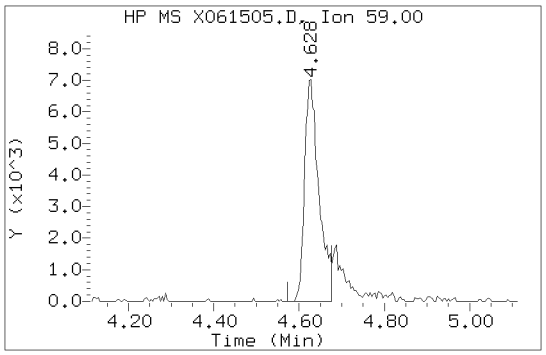
BEFORE

MASS
59
AREA
16716
HEIGHT
7019
20-Jun-2023
18:22
linh
pham



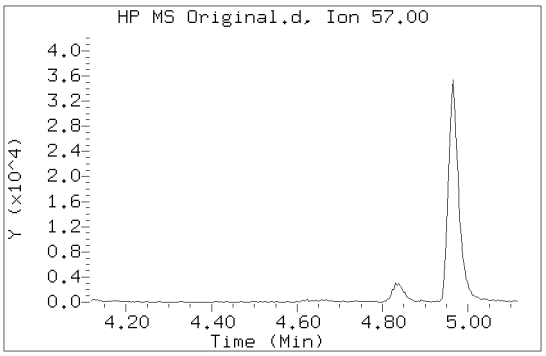
AFTER

MASS
59
AREA
16716
HEIGHT
7019
20-Jun-2023
18:22
linh
pham



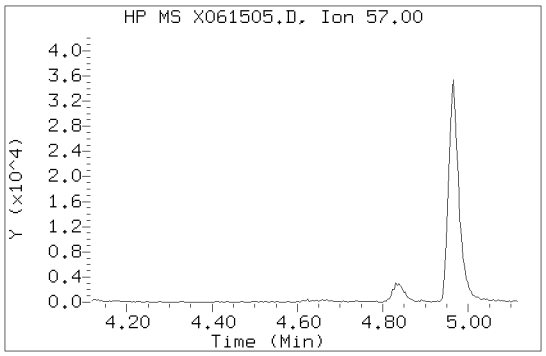
BEFORE

MASS
57
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



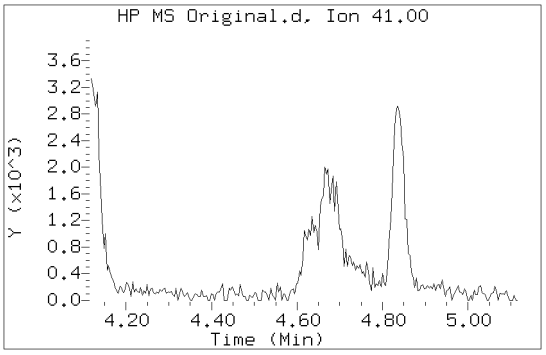
AFTER

MASS
57
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



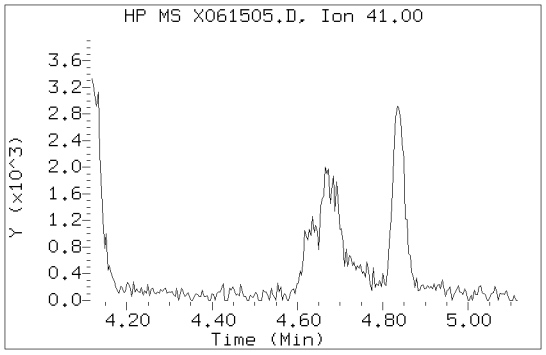
BEFORE

MASS
41
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



AFTER

MASS
41
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

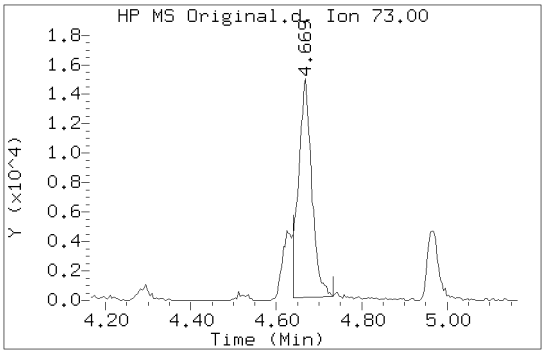


tert-Amyl methyl ether (974-05-08)

Reason Code:

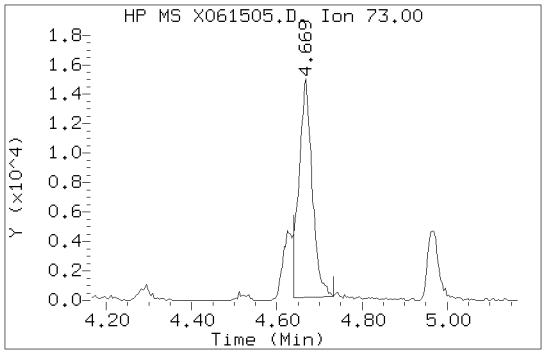
BEFORE

MASS
73
AREA
32910
HEIGHT
14863
20-Jun-2023
18:22
linh
pham



AFTER

MASS
73
AREA
32910
HEIGHT
14863
20-Jun-2023
18:22
linh
pham



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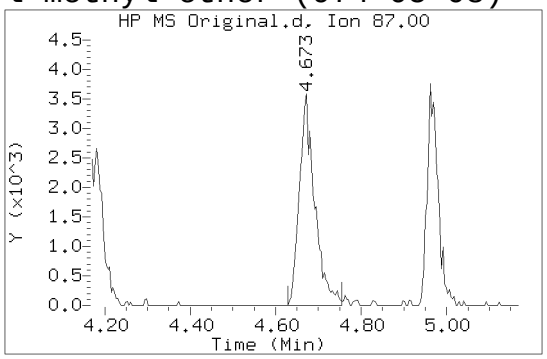
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

tert-Amyl methyl ether (974-05-08)

Reason Code:

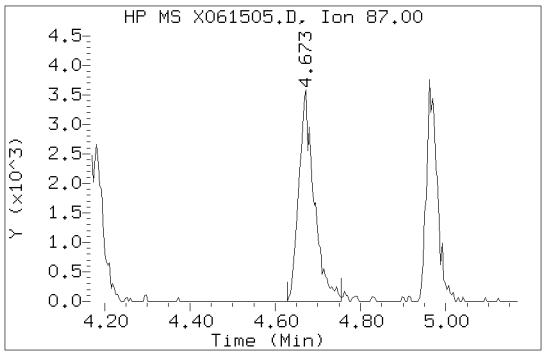
BEFORE

MASS
87
AREA
9052
HEIGHT
3583
20-Jun-2023
18:22
linh
pham



AFTER

MASS
87
AREA
9052
HEIGHT
3583
20-Jun-2023
18:22
linh
pham



BEFORE

MASS
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4151
20-Jun-2023
18:22
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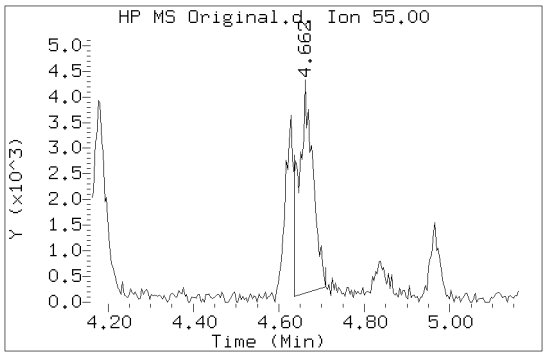

AFTER

MASS
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AREA
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HEIGHT
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20-Jun-2023
18:22
linh
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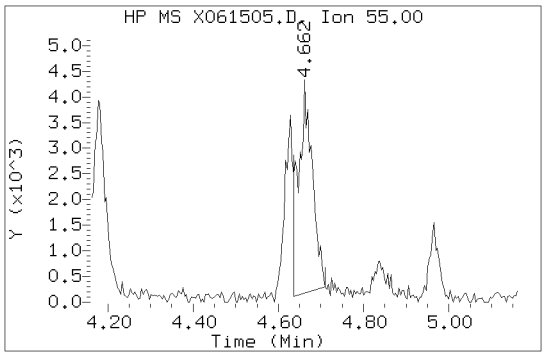

Epichlorohydrin (106-89-8)

Reason Code:

BEFORE

MASS
57
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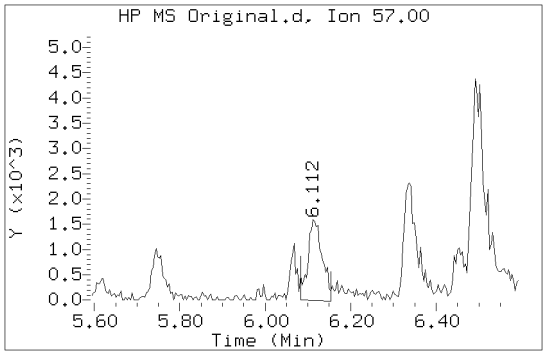
3820
HEIGHT
1601
20-Jun-2023
18:22
linh
pham



AFTER

MASS
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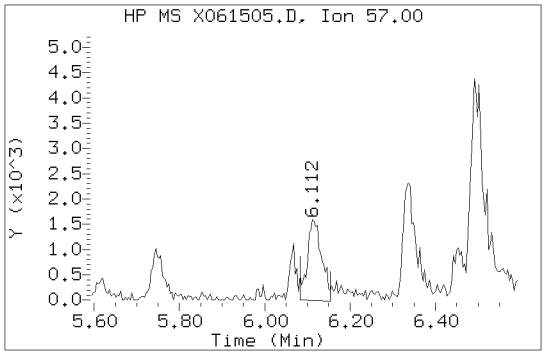
AREA
3820
HEIGHT
1601
20-Jun-2023
18:22
linh
pham



BEFORE

MASS
49
AREA
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HEIGHT
0
20-Jun-2023
18:22
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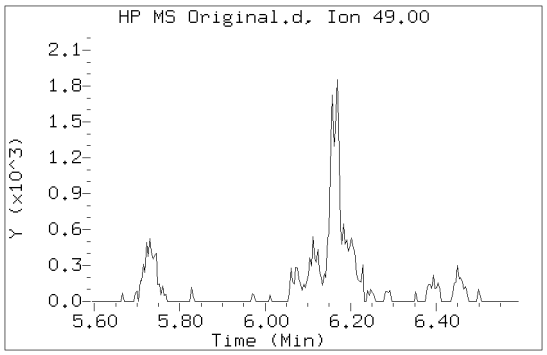

AFTER

MASS
49
AREA
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HEIGHT
0
20-Jun-2023
18:22
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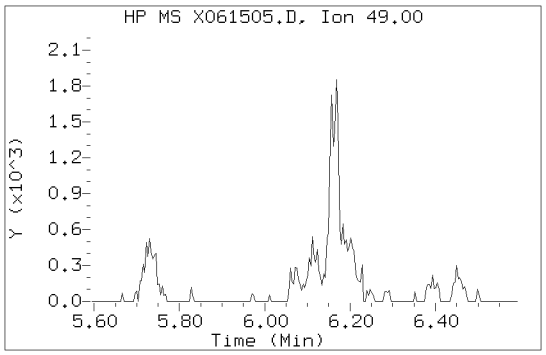

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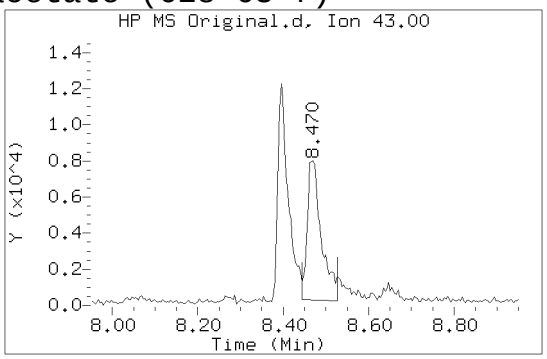
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

n-Amyl acetate (628-63-7)

Reason Code:

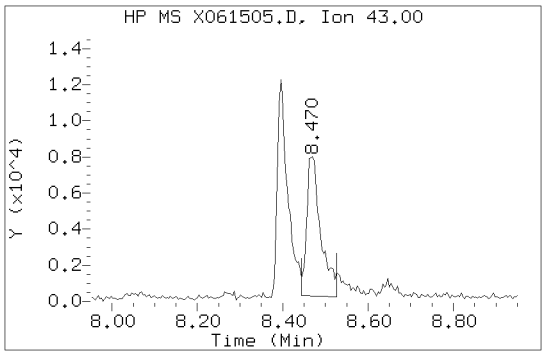
BEFORE

MASS
43
AREA
18078
HEIGHT
7749
20-Jun-2023
18:22
linh
pham



AFTER

MASS
43
AREA
18078
HEIGHT
7749
20-Jun-2023
18:22
linh
pham



BEFORE

MASS
70
AREA
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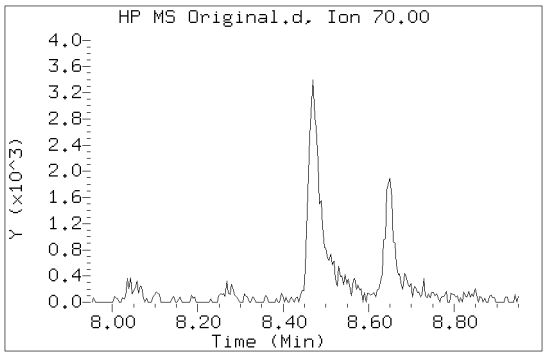
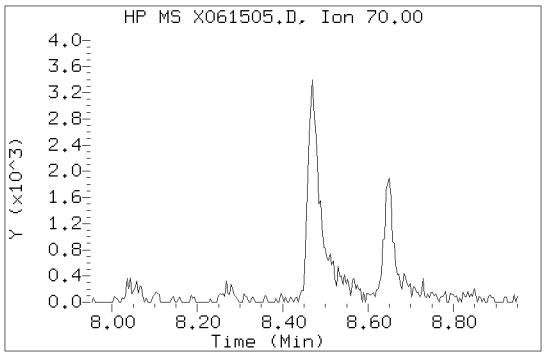
HEIGHT
0
20-Jun-2023
18:22
linh
pham



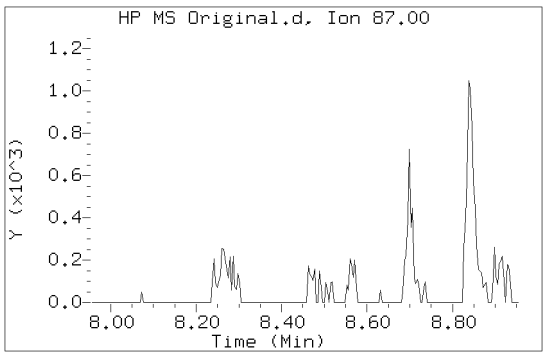
AFTER

MASS
70
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



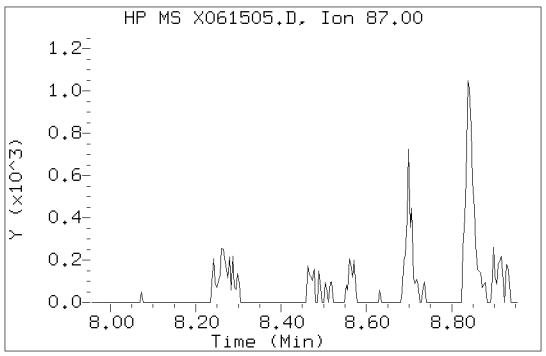
BEFORE

MASS
87
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



AFTER

MASS
87
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

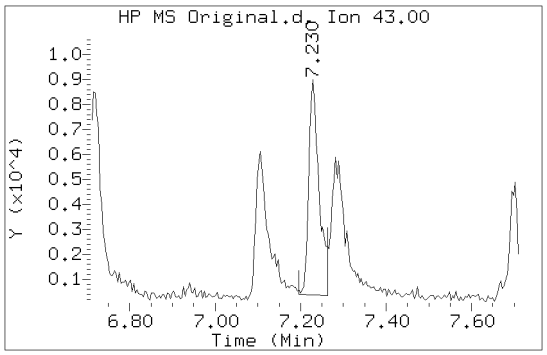


n-Butyl acetate (123-86-4)

Reason Code:

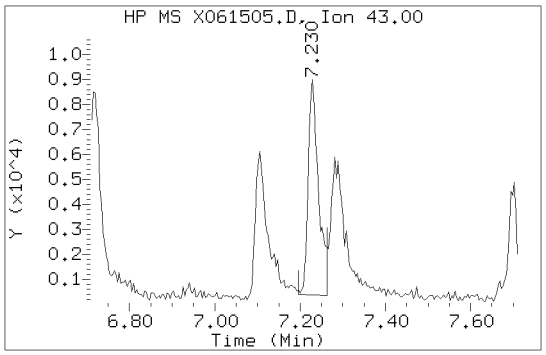
BEFORE

MASS
43
AREA
14580
HEIGHT
8610
20-Jun-2023
18:22
linh
pham



AFTER

MASS
43
AREA
14580
HEIGHT
8610
20-Jun-2023
18:22
linh
pham

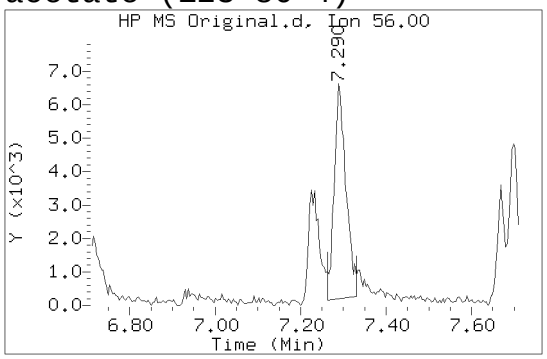


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

n-Butyl acetate (123-86-4)

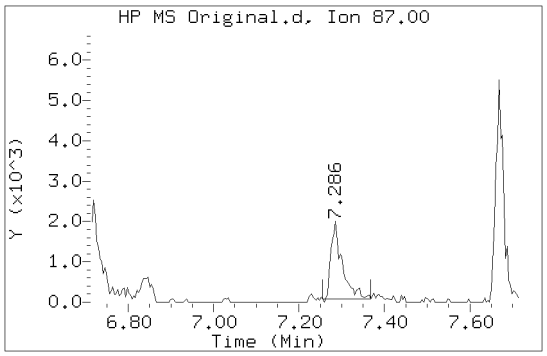
BEFORE

MASS
56
AREA
12380
HEIGHT
6432
20-Jun-2023
18:22
linh
pham



BEFORE

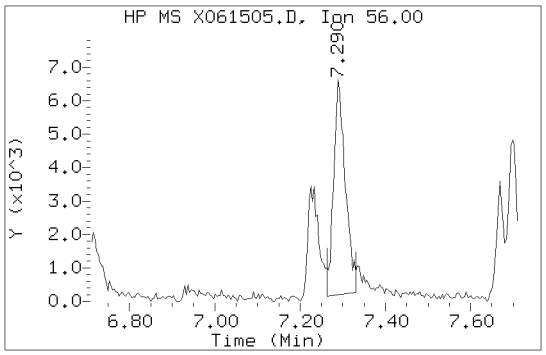
MASS
87
AREA
3534
HEIGHT
1937
20-Jun-2023
18:22
linh
pham



Reason Code:

AFTER

MASS
56
AREA
12380
HEIGHT
6432
20-Jun-2023
18:22
linh
pham



AFTER

MASS
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AREA
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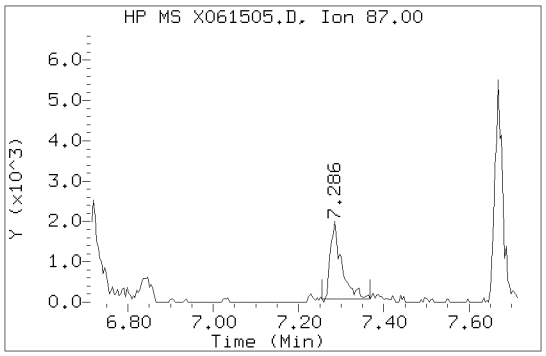
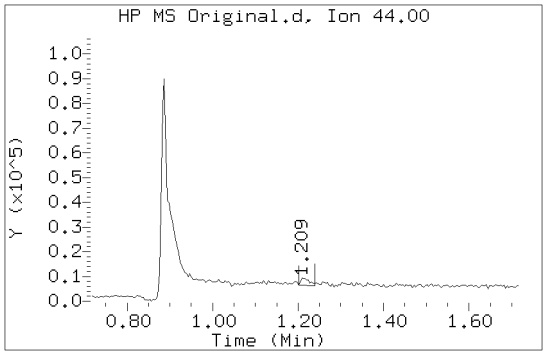
HEIGHT
1937
20-Jun-2023
18:22
linh
pham



Acetaldehyde (75-07-0)

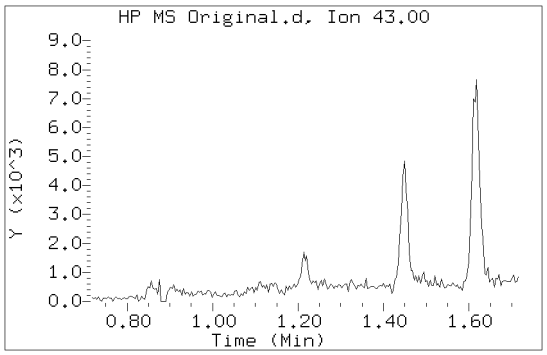
BEFORE

MASS
44
AREA
4310
HEIGHT
3066
20-Jun-2023
18:22
linh
pham



BEFORE

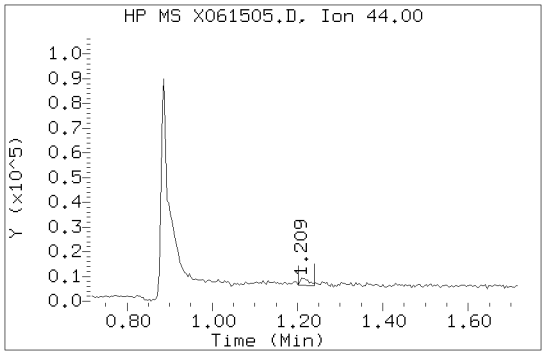
MASS
43
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



Reason Code:

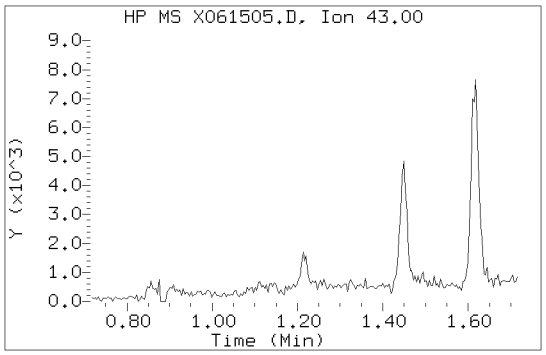
AFTER

MASS
44
AREA
4310
HEIGHT
3066
20-Jun-2023
18:22
linh
pham



AFTER

MASS
43
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



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Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

MASS
42
AREA
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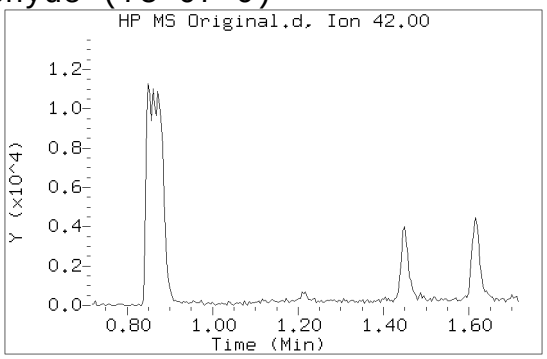
HEIGHT
0
20-Jun-2023
18:22
linh
pham



AFTER

MASS
42
AREA
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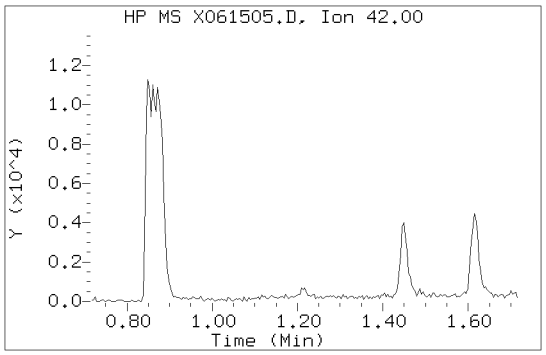
HEIGHT
0
20-Jun-2023
18:22
linh
pham

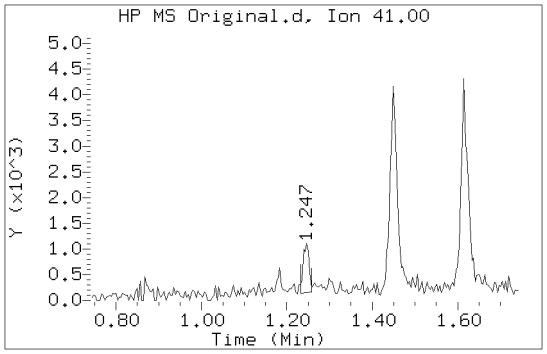


Isobutylene (115-11-7)

Reason Code:

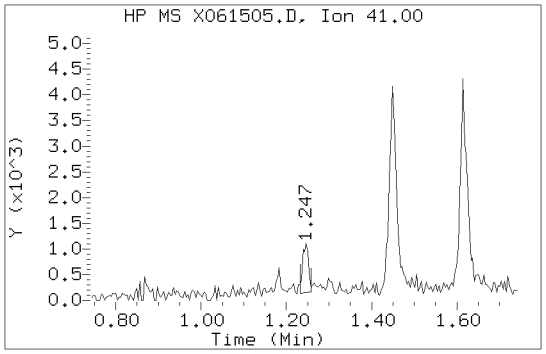
BEFORE

MASS
41
AREA
964
HEIGHT
953
20-Jun-2023
18:22
linh
pham



AFTER

MASS
41
AREA
964
HEIGHT
953
20-Jun-2023
18:22
linh
pham



BEFORE

MASS
56
AREA
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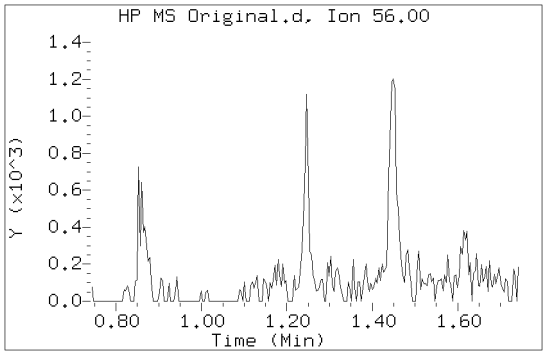
HEIGHT
0
20-Jun-2023
18:22
linh
pham



AFTER

MASS
56
AREA
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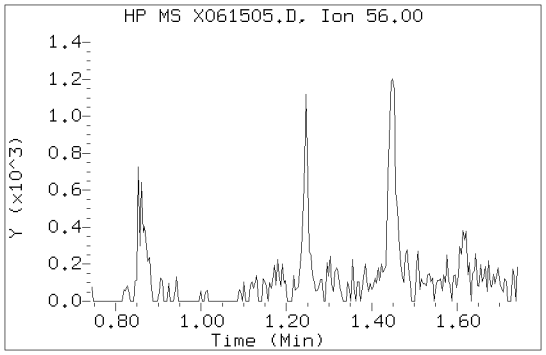
HEIGHT
0
20-Jun-2023
18:22
linh
pham



BEFORE

MASS
84
AREA
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HEIGHT
0
20-Jun-2023
18:22
linh
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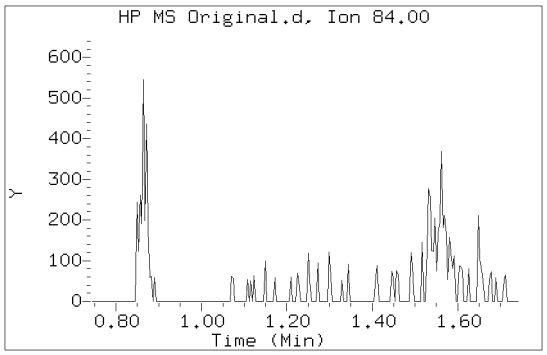
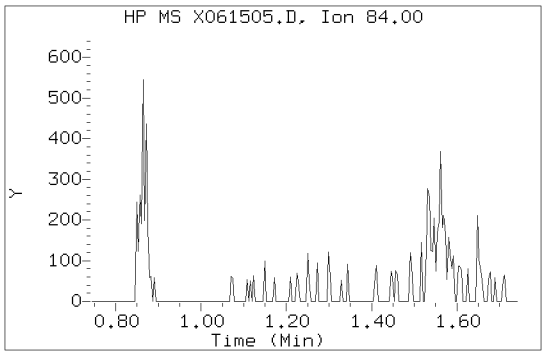


AFTER

MASS
84
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



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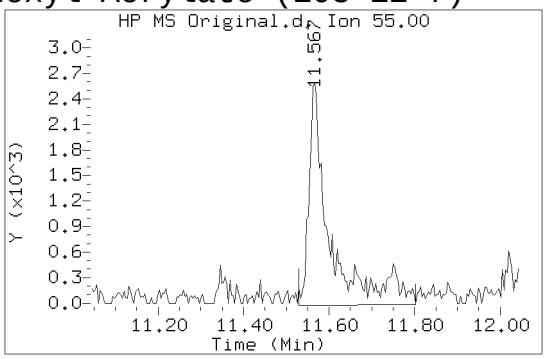
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

BEFORE

MASS
55
AREA
8837
HEIGHT
2604
20-Jun-2023
18:22
linh
pham



AFTER

MASS
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AREA
8837
HEIGHT
2604
20-Jun-2023
18:22
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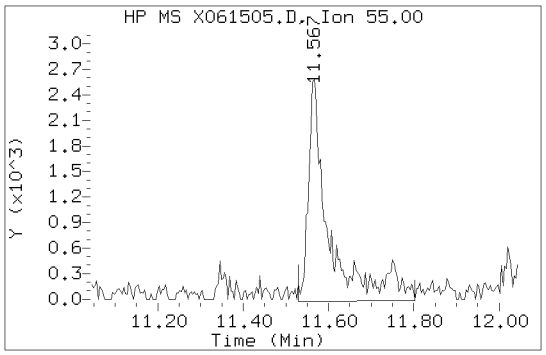
pham



BEFORE

MASS
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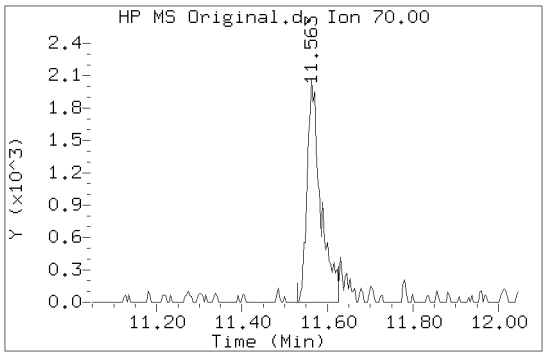
AREA
4532
HEIGHT
2060
20-Jun-2023
18:22
linh
pham



AFTER

MASS
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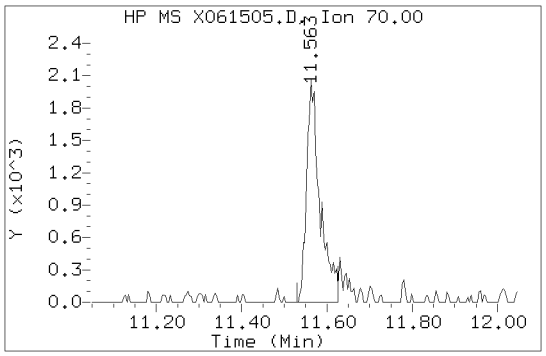
AREA
4532
HEIGHT
2060
20-Jun-2023
18:22
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061506.D Page 1
Report Date: 05-Jul-2023 13:00

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061506.D
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 15-JUN-2023 13:00
Operator : PC Inst ID: voa6.i
Smp Info : VSTD005;VSTD005;1;5;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:00 Cal File: X061506.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.177	4.177	(1.000)	488017	50.0000	
2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	21019	5.00000	5.29
3	Chloromethane	50	1.081	1.081	(0.259)	25651	5.00000	5.89
4	Propionitrile	54	3.668	3.668	(0.878)	29713	50.0000	50.34(a)
5	Vinyl Chloride	62	1.145	1.145	(0.274)	23889	5.00000	4.66
6	Bromomethane	94	1.343	1.343	(0.322)	14528	5.00000	4.93(M)
7	Chloroethane	64	1.407	1.407	(0.337)	15374	5.00000	4.90
8	Trichlorofluoromethane	101	1.565	1.565	(0.375)	28710	5.00000	4.71
9	Acrolein	56	1.445	1.445	(0.346)	2991	10.0000	9.87(a)
10	Acetone	43	1.977	1.977	(0.473)	16276	10.0000	12.55
11	1,1-Dichloroethene	96	1.917	1.917	(0.459)	18352	5.00000	4.80
12	Isobutyl Alcohol	43	4.684	4.684	(1.121)	68348	100.000	107.41(a)
13	Acetonitrile	39	2.206	2.206	(0.528)	24760	50.0000	52.30(a)
14	Allyl Chloride	41	2.206	2.206	(0.528)	54361	5.00000	5.07(a)
15	Iodomethane	142	2.029	2.029	(0.486)	43988	10.0000	9.17
16	Acrylonitrile	53	2.554	2.554	(0.611)	15118	10.0000	9.75(M)
17	Methylene Chloride	84	2.307	2.307	(0.552)	29661	5.00000	5.49
18	Methyl tert-butyl ether	73	2.536	2.536	(0.607)	67305	5.00000	5.04
19	Carbon Disulfide	76	2.071	2.071	(0.496)	128049	10.0000	9.41
20	trans-1,2-Dichloroethene	96	2.536	2.536	(0.607)	21908	5.00000	4.79
21	Vinyl Acetate	43	3.008	3.008	(0.720)	127281	10.0000	10.43

22 1,1-Dichloroethane	63	2.925	2.925 (0.700)	39888	5.00000	4.84
23 Chloroprene	53	1.778	1.778 (0.426)	7954	5.00000	4.90(aM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
24	2-Butanone	43	3.608	3.608	(0.864)	13344	10.0000	8.30(M)
25	Methacrylonitrile	41	3.840	3.840	(0.919)	20054	5.00000	4.98(aH)
26	2,2-Dichloropropane	77	3.514	3.514	(0.841)	33630	5.00000	5.17
27	cis-1,2-Dichloroethene	96	3.529	3.529	(0.845)	25475	5.00000	4.83
28	Chloroform	83	3.908	3.908	(0.935)	43843	5.00000	4.94
29	Bromochloromethane	128	3.799	3.799	(0.909)	14035	5.00000	4.99
$ 30	Dibromofluoromethane	113	4.106	4.106	(0.983)	25267	5.00000	5.49
31	1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	33298	5.00000	4.64
32	1,1-Dichloropropene	75	4.282	4.282	(0.863)	31057	5.00000	4.91
33	1,2-Dichloroethane	62	4.560	4.560	(0.918)	31372	5.00000	4.95
34	Carbon Tetrachloride	117	4.267	4.267	(0.860)	28746	5.00000	4.73
$ 35	1,2-Dichloroethane-d4	65	4.474	4.474	(1.071)	26822	5.00000	4.94
* 36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	753771	50.0000	
37	Benzene	78	4.515	4.515	(0.909)	91696	5.00000	4.72
38	Trichloroethene	130	5.212	5.212	(1.050)	26143	5.00000	4.89(a)
39	Bromodichloromethane	83	5.729	5.729	(1.154)	32837	5.00000	4.78(a)
40	Methyl Methacrylate	41	5.617	5.617	(1.345)	18034	5.00000	4.77(a)
41	2-Chloroethylvinyl ether	63	6.059	6.059	(1.220)	18326	10.0000	9.87(a)
42	1,2-Dichloropropane	63	5.441	5.441	(1.096)	25417	5.00000	4.99(a)
43	2-Nitropropane	43	5.973	5.973	(1.430)	6797	5.00000	5.16(MH)
44	Dibromomethane	93	5.553	5.553	(1.119)	15838	5.00000	4.95(a)
45	4-Methyl-2-Pentanone	43	6.329	6.329	(0.825)	47063	10.0000	10.43
46	cis-1,3-Dichloropropene	75	6.160	6.160	(1.241)	41389	5.00000	4.89(a)
* 47	Chlorobenzene-d5	117	7.667	7.667	(1.000)	697950	50.0000	
$ 48	Toluene-d8	98	6.389	6.389	(0.833)	86700	5.00000	4.91(a)
49	Ethyl Methacrylate	69	6.790	6.790	(1.368)	34147	5.00000	4.95(aH)
50	Toluene	91	6.449	6.449	(0.841)	96484	5.00000	4.70(a)
51	trans-1,3-Dichloropropene	75	6.689	6.689	(1.347)	33242	5.00000	4.69(a)
52	2-Hexanone	43	7.094	7.094	(0.925)	31781	10.0000	10.55
53	1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	20225	5.00000	5.06
54	1,3-Dichloropropane	76	6.985	6.985	(0.911)	40289	5.00000	4.99(a)
55	Dibromochloromethane	129	7.176	7.176	(0.936)	26465	5.00000	4.67(a)
56	Tetrachloroethene	164	6.925	6.925	(0.903)	20894	5.00000	4.95(a)
57	1,2-Dibromoethane	107	7.263	7.263	(0.947)	25353	5.00000	4.96(a)
58	1-Chlorohexane	55	7.694	7.694	(1.550)	22997	5.00000	5.01
59	Chlorobenzene	112	7.694	7.694	(1.003)	68862	5.00000	4.91(a)
60	1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	25167	5.00000	4.81(a)
61	Ethylbenzene	106	7.799	7.799	(1.017)	34698	5.00000	4.80(a)
62	m,p-Xylenes	106	7.907	7.907	(1.031)	89258	10.0000	10.02
63	o-Xylene	106	8.241	8.241	(1.075)	43406	5.00000	4.88(a)
64	Styrene	104	8.263	8.263	(1.078)	70501	5.00000	4.81(a)
66	Bromoform	173	8.413	8.413	(1.097)	18603	5.00000	4.71(a)
67	Isopropylbenzene	105	8.560	8.560	(1.116)	105918	5.00000	4.82(a)
68	1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	34471	5.00000	5.14
$ 69	4-Bromofluorobenzene	95	8.691	8.691	(1.133)	37968	5.00000	5.09
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	381050	50.0000	
71	1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	24647	5.00000	5.12
72	trans-1,4-Dichloro-2-butene	53	8.893	8.893	(1.160)	8239	5.00000	4.84(a)
73	n-Propylbenzene	91	8.912	8.912	(0.922)	122140	5.00000	4.87(a)
74	Bromobenzene	156	8.807	8.807	(0.912)	30648	5.00000	4.93(a)
75	1,3,5-Trimethylbenzene	105	9.069	9.069	(0.939)	88359	5.00000	4.80(a)
76	2-Chlorotoluene	91	8.976	8.976	(0.929)	80274	5.00000	5.04

77	4-Chlorotoluene	91	9.073	9.073 (0.939)	88105	5.00000	4.96(a)
78	tert-Butylbenzene	119	9.336	9.336 (0.966)	74954	5.00000	4.88(a)

	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	9.381	9.381	(0.971)	89491	5.00000	4.82(a)
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	104715	5.00000	4.84(a)
82	p-Isopropyltoluene	119	9.650	9.650	(0.999)	91749	5.00000	4.84(a)
83	1,3-Dichlorobenzene	146	9.605	9.605	(0.994)	53191	5.00000	4.81(a)
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	56357	5.00000	4.76(a)
86	Benzyl Chloride	91	9.812	9.812	(1.280)	46695	5.00000	4.05(a)
87	n-Butylbenzene	91	9.999	9.999	(1.035)	79292	5.00000	4.91(a)
88	1,2-Dichlorobenzene	146	9.995	9.995	(1.035)	53221	5.00000	4.85(a)
89	1,2-Dibromo-3-Chloropropane	155	10.663	10.663	(1.104)	5689	5.00000	5.43
90	1,2,4-Trichlorobenzene	180	11.345	11.345	(1.174)	35696	5.00000	4.67(a)
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	16766	5.00000	4.89(a)
92	Naphthalene	128	11.547	11.547	(1.195)	82000	5.00000	4.77(a)
93	1,2,3-Trichlorobenzene	180	11.746	11.746	(1.216)	33399	5.00000	4.75(a)
146	Methyl acetate	43	2.243	2.243	(0.537)	13585	5.00000	4.70(a)
138	Freon TF	101	1.917	1.917	(0.459)	18080	5.00000	5.43
141	Cyclohexane	56	4.121	4.121	(0.987)	29352	5.00000	4.71(aH)
142	Tetrahydrofuran	42	3.855	3.855	(0.923)	6773	10.0000	9.52
147	Methylcyclohexane	55	5.396	5.396	(1.087)	52494	5.00000	4.98(aM)
135	1,4-Dioxane	88	5.606	5.606	(1.342)	5975	100.000	101.02
132	n-Butanol	56	5.287	5.287	(1.266)	8163	100.000	124.96(aM)
131	Methyl Acrylate	55	3.716	3.716	(0.890)	16619	5.00000	4.20(a)
133	Ethyl Acrylate	55	5.396	5.396	(1.292)	39998	5.00000	5.82(M)
136	n-Hexane	57	2.775	2.775	(0.664)	23971	5.00000	5.42
139	Diethyl ether	59	1.760	1.760	(0.421)	15277	5.00000	4.99(a)
148	Tert-butyl alcohol	59	2.434	2.434	(0.583)	50993	100.000	101.75
149	Isopropyl alcohol	45	2.101	2.101	(0.503)	26563	100.000	96.02
156	Diisopropyl ether	45	3.004	3.004	(0.719)	71238	5.00000	4.94(Ta)
160	2-Methylnaphthalene	142	12.642	12.642	(1.308)	35100	5.00000	4.66
166	1,2,3-Trimethylbenzene	105	9.733	9.733	(1.007)	90660	5.00000	5.00
167	Ethanol	45	1.711	1.711	(0.410)	5165	100.000	110.73
172	tert-Butyl formate	59	4.620	4.620	(1.106)	41840	10.0000	10.41
173	3,3-Dimethyl-1-butanol	57	7.289	7.289	(0.951)	59619	100.000	104.43
174	tert-Amyl methyl ether	73	4.669	4.669	(1.118)	78074	5.00000	4.98(a)
175	tert-Butyl ethyl ether	59	3.379	3.379	(0.809)	71669	5.00000	4.81(a)
176	tert-Amyl alcohol	59	4.620	4.620	(1.106)	41840	100.000	102.06
151	4-Methyl-2-pentanol	45	6.712	6.712	(1.352)	125924	100.000	105.05(M)
180	1-Methylnaphthalene	142	12.642	12.642	(1.308)	35100	5.00000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.280)	18461	5.00000	4.56(a)
152	Amyl alcohol	42	6.918	6.918	(0.902)	10877	100.000	83.64(M)
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	33935	5.00000	4.83
159	Propylene oxide	43	1.805	1.805	(0.432)	4141	10.0000	9.57
161	3-Methyl-1-butanol	55	6.921	6.921	(0.903)	10033	100.000	107.44
162	Butyl acrylate	55	8.260	8.260	(1.077)	48821	5.00000	5.22
163	Butyl methacrylate	41	9.174	9.174	(0.950)	33077	5.00000	5.16
164	Dicyclopentadiene	66	9.680	9.680	(1.002)	112719	5.00000	5.28
182	Epichlorohydrin	57	6.104	6.104	(1.230)	8423	20.0000	18.68
M 94	1,2-Dichloroethylene (total)	96				47383	10.0000	9.62(a)
M 95	Xylenes (total)	106				132664	15.0000	14.90(a)
130	Ethyl Acetate	43	3.668	3.668	(0.878)	25843	5.00000	5.19
134	Cyclohexanone	55	8.646	8.646	(0.895)	24566	100.000	102.53(a)
185	Isoprene	39	1.771	1.771	(0.424)	5765	5.00000	4.34(a)
188	Isopropyl acetate	43	4.684	4.684	(0.943)	68348	5.00000	5.25

187 n-Amyl acetate	43	8.462	8.462 (1.104)	46339	5.00000	4.95(a)
189 n-Butyl acetate	43	7.221	7.221 (0.942)	38984	5.00000	5.21(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
150 Allyl alcohol	57	2.775	2.775	(0.664)	23971	100.000	107.32
194 Acetaldehyde	44	1.216	1.216	(0.291)	6656	20.0000	22.91(M)
195 Methyl Amyl Ketone	43	8.387	8.387	(1.094)	52850	5.00000	5.14
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	50470	5.00000	4.87(a)
202 Isobutylene	41	1.242	1.242	(0.297)	2239	5.00000	4.79(aM)
205 2-Ethylhexyl Acrylate	55	11.551	11.551	(1.196)	25308	5.00000	4.76(aM)

QC Flag Legend

T - Target compound detected outside RT window.
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\voa6.i\X230615.b\X061507.D Page 1
Report Date: 05-Jul-2023 13:00

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061507.D
Lab Smp Id: VSTD020 Client Smp ID: VSTD020
Inj Date : 15-JUN-2023 13:21
Operator : PC Inst ID: voa6.i
Smp Info : VSTD020;VSTD020;1;6;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:21 Cal File: X061507.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.178	4.178	(1.000)	489657	50.0000	
2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	86585	20.0000	20.72
3	Chloromethane	50	1.081	1.081	(0.259)	97329	20.0000	19.44
4	Propionitrile	54	3.653	3.653	(0.874)	124537	200.000	210.30(a)
5	Vinyl Chloride	62	1.145	1.145	(0.274)	99862	20.0000	19.41
6	Bromomethane	94	1.344	1.344	(0.322)	54855	20.0000	18.58
7	Chloroethane	64	1.407	1.407	(0.337)	62269	20.0000	19.80
8	Trichlorofluoromethane	101	1.565	1.565	(0.375)	117479	20.0000	19.22
9	Acrolein	56	1.445	1.445	(0.346)	11716	40.0000	38.55
10	Acetone	43	1.977	1.977	(0.473)	54363	40.0000	42.42
11	1,1-Dichloroethene	96	1.917	1.917	(0.459)	72051	20.0000	18.79
12	Isobutyl Alcohol	43	4.676	4.676	(1.119)	270352	400.000	423.44(a)
13	Acetonitrile	39	2.202	2.202	(0.527)	94507	200.000	198.98(a)
14	Allyl Chloride	41	2.202	2.202	(0.527)	212180	20.0000	19.75(a)
15	Iodomethane	142	2.030	2.030	(0.486)	223261	40.0000	36.88
16	Acrylonitrile	53	2.539	2.539	(0.608)	63444	40.0000	40.81
17	Methylene Chloride	84	2.303	2.303	(0.551)	103912	20.0000	19.18
18	Methyl tert-butyl ether	73	2.536	2.536	(0.607)	262034	20.0000	19.58
19	Carbon Disulfide	76	2.071	2.071	(0.496)	517323	40.0000	37.89
20	trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	87737	20.0000	19.12
21	Vinyl Acetate	43	3.000	3.000	(0.718)	534964	40.0000	43.69

22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	161028	20.0000	19.48
23 Chloroprene	53	1.775	1.775 (0.425)	30284	20.0000	18.60(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
24	2-Butanone	43	3.585	3.585	(0.858)	61551	40.0000	38.19
25	Methacrylonitrile	41	3.829	3.829	(0.917)	80752	20.0000	19.98(aH)
26	2,2-Dichloropropane	77	3.510	3.510	(0.840)	134641	20.0000	20.64
27	cis-1,2-Dichloroethene	96	3.529	3.529	(0.845)	101910	20.0000	19.26
28	Chloroform	83	3.908	3.908	(0.935)	168304	20.0000	18.92
29	Bromochloromethane	128	3.795	3.795	(0.908)	53335	20.0000	18.92
$ 30	Dibromofluoromethane	113	4.099	4.099	(0.981)	90715	20.0000	20.54
31	1,1,1-Trichloroethane	97	4.084	4.084	(0.978)	137926	20.0000	19.18
32	1,1-Dichloropropene	75	4.282	4.282	(0.863)	120835	20.0000	19.11
33	1,2-Dichloroethane	62	4.556	4.556	(0.918)	124099	20.0000	19.58
34	Carbon Tetrachloride	117	4.264	4.264	(0.859)	114389	20.0000	18.81
$ 35	1,2-Dichloroethane-d4	65	4.474	4.474	(1.071)	99379	20.0000	20.55
* 36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	754600	50.0000	
37	Benzene	78	4.511	4.511	(0.909)	373170	20.0000	19.22
38	Trichloroethene	130	5.208	5.208	(1.049)	103081	20.0000	19.26
39	Bromodichloromethane	83	5.726	5.726	(1.153)	130164	20.0000	18.95
40	Methyl Methacrylate	41	5.606	5.606	(1.342)	77299	20.0000	20.39(a)
41	2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	79598	40.0000	42.84
42	1,2-Dichloropropane	63	5.433	5.433	(1.094)	100950	20.0000	19.81
43	2-Nitropropane	43	5.969	5.969	(1.429)	26346	20.0000	19.96(H)
44	Dibromomethane	93	5.550	5.550	(1.118)	63997	20.0000	20.00
45	4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	193266	40.0000	42.28
46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	164762	20.0000	19.46
* 47	Chlorobenzene-d5	117	7.667	7.667	(1.000)	707583	50.0000	
$ 48	Toluene-d8	98	6.385	6.385	(0.833)	349010	20.0000	19.50
49	Ethyl Methacrylate	69	6.787	6.787	(1.367)	132083	20.0000	19.16(aH)
50	Toluene	91	6.445	6.445	(0.841)	400928	20.0000	19.30
51	trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	140752	20.0000	19.87
52	2-Hexanone	43	7.086	7.086	(0.924)	134211	40.0000	43.95
53	1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	78488	20.0000	19.39
54	1,3-Dichloropropane	76	6.981	6.981	(0.911)	163359	20.0000	19.96
55	Dibromochloromethane	129	7.173	7.173	(0.935)	111592	20.0000	19.45
56	Tetrachloroethene	164	6.925	6.925	(0.903)	80991	20.0000	18.95
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	100177	20.0000	19.36
58	1-Chlorohexane	55	7.694	7.694	(1.550)	89942	20.0000	19.59
59	Chlorobenzene	112	7.694	7.694	(1.003)	272588	20.0000	19.17
60	1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	101037	20.0000	19.06
61	Ethylbenzene	106	7.799	7.799	(1.017)	138944	20.0000	18.97
62	m,p-Xylenes	106	7.904	7.904	(1.031)	349440	40.0000	38.69
63	o-Xylene	106	8.241	8.241	(1.075)	172627	20.0000	19.15
64	Styrene	104	8.260	8.260	(1.077)	290351	20.0000	19.56
66	Bromoform	173	8.410	8.410	(1.097)	77639	20.0000	19.41
67	Isopropylbenzene	105	8.560	8.560	(1.116)	418865	20.0000	18.80
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	134456	20.0000	19.65
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	139706	20.0000	19.90
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	389124	50.0000	
71	1,2,3-Trichloropropane	75	8.860	8.860	(0.917)	108010	20.0000	22.01
72	trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	35313	20.0000	20.50(a)
73	n-Propylbenzene	91	8.912	8.912	(0.922)	504305	20.0000	19.69
74	Bromobenzene	156	8.803	8.803	(0.911)	122207	20.0000	19.26
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	365012	20.0000	19.42
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	315569	20.0000	19.40

77	4-Chlorotoluene	91	9.069	9.069 (0.939)	357516	20.0000	19.71
78	tert-Butylbenzene	119	9.332	9.332 (0.966)	303752	20.0000	19.40

	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	9.377	9.377	(0.971)	371444	20.0000	19.59
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	419674	20.0000	19.00
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	375150	20.0000	19.40
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	218959	20.0000	19.38
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	232551	20.0000	19.23
86	Benzyl Chloride	91	9.808	9.808	(1.279)	224211	20.0000	19.18
87	n-Butylbenzene	91	9.995	9.995	(1.035)	329929	20.0000	20.04
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	219152	20.0000	19.55
89	1,2-Dibromo-3-Chloropropane	155	10.659	10.659	(1.103)	22086	20.0000	19.93
90	1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	155839	20.0000	19.99
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	63742	20.0000	18.21
92	Naphthalene	128	11.544	11.544	(1.195)	366963	20.0000	20.91
93	1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	143690	20.0000	20.03
146	Methyl acetate	43	2.236	2.236	(0.535)	60459	20.0000	20.86
138	Freon TF	101	1.917	1.917	(0.459)	69934	20.0000	20.78
141	Cyclohexane	56	4.121	4.121	(0.987)	118290	20.0000	18.95
142	Tetrahydrofuran	42	3.848	3.848	(0.921)	30075	40.0000	42.14
147	Methylcyclohexane	55	5.381	5.381	(1.084)	202443	20.0000	19.19(M)
135	1,4-Dioxane	88	5.598	5.598	(1.340)	23581	400.000	397.38
132	n-Butanol	56	5.261	5.261	(1.259)	42441	400.000	375.27(a)
131	Methyl Acrylate	55	3.694	3.694	(0.884)	81771	20.0000	20.61
133	Ethyl Acrylate	55	5.381	5.381	(1.288)	144388	20.0000	14.83(M)
136	n-Hexane	57	2.772	2.772	(0.664)	95375	20.0000	21.84
139	Diethyl ether	59	1.760	1.760	(0.421)	60650	20.0000	19.77
148	Tert-butyl alcohol	59	2.431	2.431	(0.582)	196347	400.000	390.48
149	Isopropyl alcohol	45	2.097	2.097	(0.502)	106653	400.000	384.27
156	Diisopropyl ether	45	3.000	3.000	(0.718)	281797	20.0000	19.51
160	2-Methylnaphthalene	142	12.638	12.638	(1.308)	157545	20.0000	20.51
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	360447	20.0000	19.48
167	Ethanol	45	1.707	1.707	(0.409)	18569	400.000	396.76
172	tert-Butyl formate	59	4.616	4.616	(1.105)	159552	40.0000	39.56
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	229127	400.000	395.91
174	tert-Amyl methyl ether	73	4.665	4.665	(1.117)	299445	20.0000	19.06
175	tert-Butyl ethyl ether	59	3.379	3.379	(0.809)	286959	20.0000	19.19
176	tert-Amyl alcohol	59	4.616	4.616	(1.105)	159552	400.000	387.92
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.351)	449919	400.000	374.94
180	1-Methylnaphthalene	142	12.638	12.638	(1.308)	157545	20.0000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.280)	79048	20.0000	19.48
152	Amyl alcohol	42	6.903	6.903	(0.900)	53030	400.000	402.24
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	130577	20.0000	18.55
159	Propylene oxide	43	1.805	1.805	(0.432)	16191	40.0000	37.29
161	3-Methyl-1-butanol	55	6.903	6.903	(0.900)	52635	400.000	408.16
162	Butyl acrylate	55	8.252	8.252	(1.076)	203667	20.0000	19.81
163	Butyl methacrylate	41	9.171	9.171	(0.949)	139381	20.0000	21.29
164	Dicyclopentadiene	66	9.681	9.681	(1.002)	418286	20.0000	19.21
182	Epichlorohydrin	57	6.097	6.097	(1.228)	35522	80.0000	78.69
M 94	1,2-Dichloroethylene (total)	96				189647	40.0000	38.39
M 95	Xylenes (total)	106				522067	60.0000	57.85
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	183918	20.0000	19.97
130	Ethyl Acetate	43	3.656	3.656	(0.875)	104842	20.0000	21.00
134	Cyclohexanone	55	8.642	8.642	(0.894)	91911	400.000	410.27(a)
185	Isoprene	39	1.771	1.771	(0.424)	22566	20.0000	16.93

188 Isopropyl acetate	43	4.676	4.676 (0.942)	270352	20.0000	20.74
187 n-Amyl acetate	43	8.451	8.451 (1.102)	194165	20.0000	20.49

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
189 n-Butyl acetate	43	7.214	7.214	(0.941)	161428	20.0000	21.30(H)
150 Allyl alcohol	57	2.772	2.772	(0.664)	95375	400.000	436.24
194 Acetaldehyde	44	1.216	1.216	(0.291)	20285	80.0000	76.62(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	220297	20.0000	21.14
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	203599	20.0000	19.40
202 Isobutylene	41	1.242	1.242	(0.297)	8262	20.0000	17.64(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	120798	20.0000	17.62(M)

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\voa6.i\X230615.b\X061508.D Page 1
Report Date: 05-Jul-2023 13:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061508.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 15-JUN-2023 13:42
Operator : PC Inst ID: voa6.i
Smp Info : VSTD050;VSTD050;1;7;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 05-Jul-2023 13:01 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 14:45 Cal File: X061511.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7051

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	4.181	4.181	(1.000)	492816	50.0000	
2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	197396	50.0000	46.53
3 Chloromethane	50	1.081	1.081	(0.259)	241131	50.0000	46.36
4 Propionitrile	54	3.653	3.653	(0.874)	304381	500.000	510.70
5 Vinyl Chloride	62	1.145	1.145	(0.274)	240339	50.0000	46.43
6 Bromomethane	94	1.344	1.344	(0.321)	137932	50.0000	46.42
7 Chloroethane	64	1.407	1.407	(0.337)	149942	50.0000	47.39
8 Trichlorofluoromethane	101	1.565	1.565	(0.374)	272748	50.0000	44.34
9 Acrolein	56	1.449	1.449	(0.347)	27543	100.000	90.06
10 Acetone	43	1.977	1.977	(0.473)	120180	100.000	93.50
11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	175031	50.0000	45.36
12 Isobutyl Alcohol	43	4.672	4.672	(1.117)	634764	1000.00	987.83
13 Acetonitrile	39	2.202	2.202	(0.527)	239543	500.000	501.13
14 Allyl Chloride	41	2.202	2.202	(0.527)	536037	50.0000	49.59
15 Iodomethane	142	2.030	2.030	(0.485)	622671	100.000	97.37
16 Acrylonitrile	53	2.536	2.536	(0.606)	151533	100.000	96.86
17 Methylene Chloride	84	2.307	2.307	(0.552)	248535	50.0000	45.60
18 Methyl tert-butyl ether	73	2.536	2.536	(0.606)	648118	50.0000	48.12
19 Carbon Disulfide	76	2.071	2.071	(0.495)	1253720	100.000	91.25
20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	213845	50.0000	46.31

21 Vinyl Acetate	43	2.997	2.997 (0.717)	1287138	100.000	104.45
22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	390252	50.0000	46.92

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.775	1.775	(0.425)	73527	50.0000	44.88(M)
	24 2-Butanone	43	3.574	3.574	(0.855)	166054	100.000	102.38
	25 Methacrylonitrile	41	3.821	3.821	(0.914)	202059	50.0000	49.69(aH)
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	313511	50.0000	47.76
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.843)	251495	50.0000	47.23
	28 Chloroform	83	3.904	3.904	(0.934)	411769	50.0000	45.99
	29 Bromochloromethane	128	3.795	3.795	(0.908)	132725	50.0000	46.78
$	30 Dibromofluoromethane	113	4.095	4.095	(0.979)	209535	50.0000	47.59
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.977)	324614	50.0000	44.86
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	288880	50.0000	45.69
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	306752	50.0000	48.42
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	268670	50.0000	44.19
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	238148	50.0000	50.13
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	754448	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	918710	50.0000	47.34
	38 Trichloroethene	130	5.205	5.205	(1.048)	248720	50.0000	46.48
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	322289	50.0000	46.94
	40 Methyl Methacrylate	41	5.602	5.602	(1.340)	191236	50.0000	50.12
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	193001	100.000	103.89
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	247937	50.0000	48.67
	43 2-Nitropropane	43	5.966	5.966	(1.427)	65936	50.0000	49.64(H)
	44 Dibromomethane	93	5.553	5.553	(1.119)	153422	50.0000	47.97
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	451055	100.000	99.73
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	414700	50.0000	48.99
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	700134	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	793009	50.0000	44.80
	49 Ethyl Methacrylate	69	6.783	6.783	(1.366)	343257	50.0000	49.80(H)
	50 Toluene	91	6.446	6.446	(0.841)	985523	50.0000	47.94
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	351970	50.0000	49.70
	52 2-Hexanone	43	7.087	7.087	(0.924)	307641	100.000	101.83
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	191485	50.0000	47.81
	54 1,3-Dichloropropane	76	6.978	6.978	(0.910)	394668	50.0000	48.74
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	276136	50.0000	48.65
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	188588	50.0000	44.61
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	242321	50.0000	47.34
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	204135	50.0000	44.49
	59 Chlorobenzene	112	7.690	7.690	(1.003)	670262	50.0000	47.65
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	247525	50.0000	47.19
	61 Ethylbenzene	106	7.799	7.799	(1.017)	337944	50.0000	46.63
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	865023	100.000	96.80
	63 o-Xylene	106	8.237	8.237	(1.074)	421695	50.0000	47.29
	64 Styrene	104	8.256	8.256	(1.077)	726936	50.0000	49.49
	66 Bromoform	173	8.406	8.406	(1.096)	193324	50.0000	48.86
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	1020952	50.0000	46.32
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	322973	50.0000	45.91
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	332999	50.0000	48.70
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	400046	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	233477	50.0000	46.28(M)
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	85424	50.0000	50.12
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	1227225	50.0000	46.61
	74 Bromobenzene	156	8.803	8.803	(0.911)	307004	50.0000	47.08
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	897093	50.0000	46.44

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	765612	50.0000	45.79
77	4-Chlorotoluene	91	9.070	9.070 (0.939)	883550	50.0000	47.38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
78	tert-Butylbenzene	119	9.332	9.332	(0.966)	729912	50.0000	45.35	
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	919002	50.0000	47.15	
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	1013804	50.0000	44.66	
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	914630	50.0000	46.02	
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	550233	50.0000	47.39	
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	582612	50.0000	46.88	
86	Benzyl Chloride	91	9.804	9.804	(1.279)	583705	50.0000	50.47	
87	n-Butylbenzene	91	9.992	9.992	(1.034)	814070	50.0000	48.10	
88	1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	553758	50.0000	48.07	
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	57289	50.0000	49.90	
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	403454	50.0000	50.34	
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	160721	50.0000	44.68	
92	Naphthalene	128	11.540	11.540	(1.194)	921832	50.0000	51.10	
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	365678	50.0000	49.59	
146	Methyl acetate	43	2.232	2.232	(0.534)	148083	50.0000	50.76	
138	Freon TF	101	1.917	1.917	(0.459)	158688	50.0000	46.35	
141	Cyclohexane	56	4.118	4.118	(0.985)	274803	50.0000	43.74	
142	Tetrahydrofuran	42	3.844	3.844	(0.919)	72495	100.000	100.93	
147	Methylcyclohexane	55	5.377	5.377	(1.083)	533003	50.0000	50.54	
135	1,4-Dioxane	88	5.598	5.598	(1.339)	56523	1000.00	946.41	
132	n-Butanol	56	5.253	5.253	(1.256)	116028	1000.00	907.61	
131	Methyl Acrylate	55	3.690	3.690	(0.883)	211890	50.0000	53.08	
133	Ethyl Acrylate	55	5.377	5.377	(1.286)	533003	50.0000	48.09	
136	n-Hexane	57	2.776	2.776	(0.664)	208750	50.0000	46.44	
139	Diethyl ether	59	1.760	1.760	(0.421)	148690	50.0000	48.15	
148	Tert-butyl alcohol	59	2.431	2.431	(0.581)	465312	1000.00	919.46	
149	Isopropyl alcohol	45	2.093	2.093	(0.501)	254962	1000.00	912.73	
156	Diisopropyl ether	45	3.001	3.001	(0.718)	713579	50.0000	49.09	
160	2-Methylnaphthalene	142	12.635	12.635	(1.308)	394789	50.0000	50.00	
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	940766	50.0000	49.47	
167	Ethanol	45	1.704	1.704	(0.407)	42212	1000.00	896.16	
172	tert-Butyl formate	59	4.616	4.616	(1.104)	374840	100.000	92.35	
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	494306	1000.00	863.21	
174	tert-Amyl methyl ether	73	4.665	4.665	(1.116)	751714	50.0000	47.55	
175	tert-Butyl ethyl ether	59	3.375	3.375	(0.807)	719611	50.0000	47.83	
176	tert-Amyl alcohol	59	4.616	4.616	(1.104)	374840	1000.00	905.51	
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.351)	1032494	1000.00	860.61	
180	1-Methylnaphthalene	142	12.635	12.635	(1.308)	394789	50.0000		(a)
140	1,3-Butadiene	54	1.167	1.167	(0.279)	188849	50.0000	46.24	
152	Amyl alcohol	42	6.899	6.899	(0.900)	133001	1000.00	1019.57	
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	334814	50.0000	47.27	
159	Propylene oxide	43	1.805	1.805	(0.432)	36073	100.000	82.56	
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	125842	1000.00	936.08	
162	Butyl acrylate	55	8.249	8.249	(1.076)	512904	50.0000	49.57	
163	Butyl methacrylate	41	9.167	9.167	(0.949)	352536	50.0000	52.39	
164	Dicyclopentadiene	66	9.681	9.681	(1.002)	1059682	50.0000	47.36	
182	Epichlorohydrin	57	6.093	6.093	(1.227)	80467	200.000	178.30	
M 94	1,2-Dichloroethylene (total)	96				465340	100.000		(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	459940	50.0000	48.60	
130	Ethyl Acetate	43	3.657	3.657	(0.875)	241252	50.0000	48.02	
134	Cyclohexanone	55	8.638	8.638	(0.894)	225144	1000.00	995.53	
185	Isoprene	39	1.775	1.775	(0.425)	54933	50.0000	40.95	

188 Isopropyl acetate	43	4.672	4.672 (0.941)	638971	50.0000	49.04
187 n-Amyl acetate	43	8.451	8.451 (1.102)	446148	50.0000	47.58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
189 n-Butyl acetate	43	7.210	7.210	(0.940)	384979	50.0000	51.34(H)
150 Allyl alcohol	57	2.776	2.776	(0.664)	208750	1000.00	928.85
194 Acetaldehyde	44	1.216	1.216	(0.291)	50952	200.000	196.39(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	518535	50.0000	50.29
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	533595	50.0000	51.39
202 Isobutylene	41	1.242	1.242	(0.297)	22667	50.0000	48.10(M)
205 2-Ethylhexyl Acrylate	55	11.544	11.544	(1.195)	360378	50.0000	48.72(M)

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\voa6.i\X230615.b\X061509.D Page 1
Report Date: 05-Jul-2023 13:00

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061509.D
Lab Smp Id: VSTD100 Client Smp ID: VSTD100
Inj Date : 15-JUN-2023 14:03
Operator : PC Inst ID: voa6.i
Smp Info : VSTD100;VSTD100;1;8;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 14:03 Cal File: X061509.D
Als bottle: 10 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.181	4.181	(1.000)	495501	50.0000	
2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	431897	100.000	100.87
3	Chloromethane	50	1.081	1.081	(0.259)	524590	100.000	99.12
4	Propionitrile	54	3.649	3.649	(0.873)	599655	1000.00	1000.67
5	Vinyl Chloride	62	1.149	1.149	(0.275)	501013	100.000	96.27
6	Bromomethane	94	1.344	1.344	(0.321)	288326	100.000	96.52
7	Chloroethane	64	1.407	1.407	(0.337)	306060	100.000	96.21
8	Trichlorofluoromethane	101	1.561	1.561	(0.373)	598877	100.000	96.84
9	Acrolein	56	1.449	1.449	(0.347)	62591	200.000	203.57
10	Acetone	43	1.973	1.973	(0.472)	254517	200.000	197.25
11	1,1-Dichloroethene	96	1.917	1.917	(0.459)	364522	100.000	93.96
12	Isobutyl Alcohol	43	4.672	4.672	(1.117)	1268000	2000.00	1962.59
13	Acetonitrile	39	2.198	2.198	(0.526)	484091	1000.00	1007.25
14	Allyl Chloride	41	2.198	2.198	(0.526)	1079064	100.000	99.30
15	Iodomethane	142	2.030	2.030	(0.485)	1361652	200.000	206.18
16	Acrylonitrile	53	2.536	2.536	(0.606)	316304	200.000	201.10
17	Methylene Chloride	84	2.303	2.303	(0.551)	490960	100.000	89.59
18	Methyl tert-butyl ether	73	2.536	2.536	(0.606)	1281775	100.000	94.66
19	Carbon Disulfide	76	2.071	2.071	(0.495)	2629763	200.000	190.38
20	trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	439343	100.000	94.64
21	Vinyl Acetate	43	2.997	2.997	(0.717)	2457055	200.000	198.31

22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	801750	100.000	95.87
23 Chloroprene	53	1.771	1.771 (0.424)	161195	100.000	97.87(M)

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	3.574	3.574	(0.855)	351579	200.000	215.60
	25	Methacrylonitrile	41	3.818	3.818	(0.913)	394582	100.000	96.51(aH)
	26	2,2-Dichloropropane	77	3.507	3.507	(0.839)	661036	100.000	100.17
	27	cis-1,2-Dichloroethene	96	3.525	3.525	(0.843)	508020	100.000	94.90
	28	Chloroform	83	3.904	3.904	(0.934)	818333	100.000	90.92
	29	Bromochloromethane	128	3.792	3.792	(0.907)	265719	100.000	93.15
$	30	Dibromofluoromethane	113	4.095	4.095	(0.979)	449558	100.000	101.94
	31	1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	691238	100.000	95.02
	32	1,1-Dichloropropene	75	4.279	4.279	(0.862)	621302	100.000	97.62
	33	1,2-Dichloroethane	62	4.552	4.552	(0.917)	619081	100.000	97.07
	34	Carbon Tetrachloride	117	4.264	4.264	(0.859)	590757	100.000	96.51
$	35	1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	480296	100.000	101.41
*	36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	759537	50.0000	
	37	Benzene	78	4.511	4.511	(0.909)	1903903	100.000	97.44
	38	Trichloroethene	130	5.205	5.205	(1.048)	527345	100.000	97.89
	39	Bromodichloromethane	83	5.722	5.722	(1.153)	657597	100.000	95.15
	40	Methyl Methacrylate	41	5.602	5.602	(1.340)	386280	100.000	100.70
	41	2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	379788	200.000	203.08
	42	1,2-Dichloropropane	63	5.433	5.433	(1.094)	505068	100.000	98.48
	43	2-Nitropropane	43	5.966	5.966	(1.427)	130452	100.000	97.68(H)
	44	Dibromomethane	93	5.550	5.550	(1.118)	306749	100.000	95.28
	45	4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	894293	200.000	193.09
	46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	851192	100.000	99.89
*	47	Chlorobenzene-d5	117	7.668	7.668	(1.000)	716953	50.0000	
$	48	Toluene-d8	98	6.386	6.386	(0.833)	1762374	100.000	97.22
	49	Ethyl Methacrylate	69	6.787	6.787	(1.367)	676176	100.000	97.44(H)
	50	Toluene	91	6.446	6.446	(0.841)	2049854	100.000	97.39
	51	trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	708794	100.000	99.41
	52	2-Hexanone	43	7.083	7.083	(0.924)	616657	200.000	199.33
	53	1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	386891	100.000	94.35
	54	1,3-Dichloropropane	76	6.978	6.978	(0.910)	798132	100.000	96.26
	55	Dibromochloromethane	129	7.173	7.173	(0.935)	568303	100.000	97.79
	56	Tetrachloroethene	164	6.925	6.925	(0.903)	417138	100.000	96.37
	57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	492910	100.000	94.04
	58	1-Chlorohexane	55	7.694	7.694	(1.550)	447382	100.000	96.85
	59	Chlorobenzene	112	7.690	7.690	(1.003)	1379283	100.000	95.77
	60	1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	518754	100.000	96.59
	61	Ethylbenzene	106	7.795	7.795	(1.017)	716254	100.000	96.52
	62	m,p-Xylenes	106	7.900	7.900	(1.030)	1808556	200.000	197.64
	63	o-Xylene	106	8.237	8.237	(1.074)	881676	100.000	96.56
	64	Styrene	104	8.256	8.256	(1.077)	1495586	100.000	99.44
	66	Bromoform	173	8.406	8.406	(1.096)	398754	100.000	98.42
	67	Isopropylbenzene	105	8.560	8.560	(1.116)	2193383	100.000	97.18
	68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	652900	100.000	89.45
$	69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	703849	100.000	101.09
*	70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	415088	50.0000	
	71	1,2,3-Trichloropropane	75	8.860	8.860	(0.917)	479418	100.000	91.60
	72	trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	178104	100.000	102.06
	73	n-Propylbenzene	91	8.908	8.908	(0.922)	2636189	100.000	96.51
	74	Bromobenzene	156	8.803	8.803	(0.911)	639671	100.000	94.55
	75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	1937766	100.000	96.68
	76	2-Chlorotoluene	91	8.972	8.972	(0.929)	1592392	100.000	91.80

77	4-Chlorotoluene	91	9.066	9.066 (0.938)	1851947	100.000	95.71
78	tert-Butylbenzene	119	9.332	9.332 (0.966)	1602812	100.000	95.98

	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	9.377	9.377	(0.971)	1952643	100.000	96.56
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	2290981	100.000	97.28
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	2068710	100.000	100.33
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	1179035	100.000	97.87
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	1231486	100.000	95.50
86	Benzyl Chloride	91	9.804	9.804	(1.279)	1261181	100.000	106.49
87	n-Butylbenzene	91	9.992	9.992	(1.034)	1840344	100.000	104.79
88	1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	1168783	100.000	97.78
89	1,2-Dibromo-3-Chloropropane	155	10.652	10.652	(1.102)	117282	100.000	98.20
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	872938	100.000	104.98
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	384079	100.000	102.91
92	Naphthalene	128	11.536	11.536	(1.194)	1926226	100.000	102.91
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	783021	100.000	102.34
146	Methyl acetate	43	2.232	2.232	(0.534)	289526	100.000	98.71
138	Freon TF	101	1.917	1.917	(0.459)	355059	100.000	100.76
141	Cyclohexane	56	4.121	4.121	(0.986)	620885	100.000	98.29
142	Tetrahydrofuran	42	3.840	3.840	(0.918)	142469	200.000	197.28
147	Methylcyclohexane	55	5.377	5.377	(1.083)	1125305	100.000	106.00(A)
135	1,4-Dioxane	88	5.598	5.598	(1.339)	120015	2000.00	1998.62
132	n-Butanol	56	5.250	5.250	(1.255)	246332	2000.00	1844.09
131	Methyl Acrylate	55	3.687	3.687	(0.882)	416983	100.000	103.90(M)
133	Ethyl Acrylate	55	5.377	5.377	(1.286)	1125305	100.000	98.39
136	n-Hexane	57	2.772	2.772	(0.663)	496122	100.000	102.05
139	Diethyl ether	59	1.760	1.760	(0.421)	299105	100.000	96.35
148	Tert-butyl alcohol	59	2.427	2.427	(0.580)	915279	2000.00	1798.80
149	Isopropyl alcohol	45	2.097	2.097	(0.502)	521733	2000.00	1857.62
156	Diisopropyl ether	45	3.001	3.001	(0.718)	1426018	100.000	97.58
160	2-Methylnaphthalene	142	12.635	12.635	(1.308)	820577	100.000	100.15
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	1981777	100.000	100.44
167	Ethanol	45	1.707	1.707	(0.408)	84145	2000.00	1776.72
172	tert-Butyl formate	59	4.616	4.616	(1.104)	756526	200.000	185.39
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	1023974	2000.00	1746.23
174	tert-Amyl methyl ether	73	4.665	4.665	(1.116)	1510011	100.000	95.00
175	tert-Butyl ethyl ether	59	3.375	3.375	(0.807)	1438799	100.000	95.12
176	tert-Amyl alcohol	59	4.616	4.616	(1.104)	756526	2000.00	1817.65
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.351)	2081892	2000.00	1723.68
180	1-Methylnaphthalene	142	12.635	12.635	(1.308)	820577	100.000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.279)	405380	100.000	98.72
152	Amyl alcohol	42	6.899	6.899	(0.900)	278205	2000.00	2082.66
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	693033	100.000	97.31
159	Propylene oxide	43	1.808	1.808	(0.433)	69625	200.000	158.49
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	266062	2000.00	1894.99
162	Butyl acrylate	55	8.249	8.249	(1.076)	1042036	100.000	97.81
163	Butyl methacrylate	41	9.167	9.167	(0.949)	680469	100.000	97.46
164	Dicyclopentadiene	66	9.681	9.681	(1.002)	2180940	100.000	93.94
182	Epichlorohydrin	57	6.093	6.093	(1.227)	164288	400.000	361.60
M 94	1,2-Dichloroethylene (total)	96				947363	200.000	189.55
M 95	Xylenes (total)	106				2690232	300.000	294.20
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	980440	100.000	99.84
130	Ethyl Acetate	43	3.653	3.653	(0.874)	454946	100.000	90.07
134	Cyclohexanone	55	8.642	8.642	(0.894)	470281	2000.00	2017.28
185	Isoprene	39	1.771	1.771	(0.424)	117560	100.000	87.18

188 Isopropyl acetate	43	4.672	4.672 (0.941)	1268530	100.000	96.70
187 n-Amyl acetate	43	8.451	8.451 (1.102)	916897	100.000	95.49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
189 n-Butyl acetate	43	7.210	7.210	(0.940)	766562	100.000	99.82(H)
150 Allyl alcohol	57	2.772	2.772	(0.663)	496122	2000.00	2041.64
194 Acetaldehyde	44	1.216	1.216	(0.291)	103450	400.000	400.10(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	1079051	100.000	102.21
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	1080422	100.000	101.61
202 Isobutylene	41	1.242	1.242	(0.297)	44663	100.000	94.27(M)
205 2-Ethylhexyl Acrylate	55	11.544	11.544	(1.195)	790630	100.000	101.60

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.
H - Operator selected an alternate compound hit.

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061510.D Page 1
Report Date: 05-Jul-2023 13:00

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061510.D
Lab Smp Id: VSTD150 Client Smp ID: VSTD150
Inj Date : 15-JUN-2023 14:24
Operator : PC Inst ID: voa6.i
Smp Info : VSTD150;VSTD150;1;9;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 14:24 Cal File: X061510.D
Als bottle: 11 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.181	4.181	(1.000)	496372	50.0000	
2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	640204	150.000	149.11
3	Chloromethane	50	1.081	1.081	(0.259)	786709	150.000	147.87
4	Propionitrile	54	3.649	3.649	(0.873)	930050	1500.00	1549.29
5	Vinyl Chloride	62	1.145	1.145	(0.274)	746276	150.000	143.15
6	Bromomethane	94	1.336	1.336	(0.320)	433384	150.000	144.83
7	Chloroethane	64	1.404	1.404	(0.336)	453938	150.000	142.45
8	Trichlorofluoromethane	101	1.561	1.561	(0.373)	900602	150.000	145.38
9	Acrolein	56	1.445	1.445	(0.346)	97655	300.000	317.05
10	Acetone	43	1.973	1.973	(0.472)	376478	300.000	291.39
11	1,1-Dichloroethene	96	1.913	1.913	(0.458)	543055	150.000	139.74
12	Isobutyl Alcohol	43	4.672	4.672	(1.117)	1920074	3000.00	2966.65
13	Acetonitrile	39	2.198	2.198	(0.526)	746339	1500.00	1550.19
14	Allyl Chloride	41	2.198	2.198	(0.526)	1653414	150.000	151.89
15	Iodomethane	142	2.030	2.030	(0.485)	1987305	300.000	295.77
16	Acrylonitrile	53	2.532	2.532	(0.606)	489629	300.000	310.76
17	Methylene Chloride	84	2.303	2.303	(0.551)	728727	150.000	132.75
18	Methyl tert-butyl ether	73	2.536	2.536	(0.606)	1979321	150.000	145.93
19	Carbon Disulfide	76	2.071	2.071	(0.495)	4109640	300.000	296.99
20	trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	664057	150.000	142.80
21	Vinyl Acetate	43	2.997	2.997	(0.717)	3702324	300.000	298.30

22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	1188336	150.000	141.85
23 Chloroprene	53	1.771	1.771 (0.424)	235576	150.000	142.78

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
24	2-Butanone	43	3.574	3.574	(0.855)	535272	300.000	327.67
25	Methacrylonitrile	41	3.818	3.818	(0.913)	606858	150.000	148.17(aH)
26	2,2-Dichloropropane	77	3.507	3.507	(0.839)	998442	150.000	151.04
27	cis-1,2-Dichloroethene	96	3.522	3.522	(0.842)	764228	150.000	142.51
28	Chloroform	83	3.904	3.904	(0.934)	1226489	150.000	136.03
29	Bromochloromethane	128	3.791	3.791	(0.907)	402633	150.000	140.90
$ 30	Dibromofluoromethane	113	4.095	4.095	(0.979)	670515	150.000	151.95
31	1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	1052921	150.000	144.48
32	1,1-Dichloropropene	75	4.279	4.279	(0.862)	948327	150.000	149.27
33	1,2-Dichloroethane	62	4.552	4.552	(0.917)	933139	150.000	146.58
34	Carbon Tetrachloride	117	4.264	4.264	(0.859)	907027	150.000	148.45
$ 35	1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	717187	150.000	151.59
* 36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	758148	50.0000	
37	Benzene	78	4.511	4.511	(0.909)	2855100	150.000	146.40
38	Trichloroethene	130	5.205	5.205	(1.048)	801968	150.000	149.14
39	Bromodichloromethane	83	5.722	5.722	(1.153)	985431	150.000	142.84
40	Methyl Methacrylate	41	5.602	5.602	(1.340)	588875	150.000	153.24
41	2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	573937	300.000	307.45
42	1,2-Dichloropropane	63	5.433	5.433	(1.094)	749457	150.000	146.41
43	2-Nitropropane	43	5.966	5.966	(1.427)	204861	150.000	153.12(H)
44	Dibromomethane	93	5.550	5.550	(1.118)	460730	150.000	143.38
45	4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	1336051	300.000	286.37
46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	1279171	150.000	150.39
* 47	Chlorobenzene-d5	117	7.668	7.668	(1.000)	722233	50.0000	
$ 48	Toluene-d8	98	6.386	6.386	(0.833)	2595498	150.000	142.14
49	Ethyl Methacrylate	69	6.787	6.787	(1.367)	1055761	150.000	152.43(H)
50	Toluene	91	6.446	6.446	(0.841)	3078749	150.000	145.20
51	trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	1082340	150.000	152.08
52	2-Hexanone	43	7.083	7.083	(0.924)	932009	300.000	299.06
53	1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	582084	150.000	140.91
54	1,3-Dichloropropane	76	6.978	6.978	(0.910)	1189873	150.000	142.46
55	Dibromochloromethane	129	7.173	7.173	(0.935)	863836	150.000	147.55
56	Tetrachloroethene	164	6.925	6.925	(0.903)	652660	150.000	149.68
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	750201	150.000	142.08
58	1-Chlorohexane	55	7.694	7.694	(1.550)	693641	150.000	150.44
59	Chlorobenzene	112	7.690	7.690	(1.003)	2097306	150.000	144.56
60	1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	788685	150.000	145.78
61	Ethylbenzene	106	7.799	7.799	(1.017)	1108469	150.000	148.29
62	m,p-Xylenes	106	7.904	7.904	(1.031)	2779898	300.000	301.57
63	o-Xylene	106	8.237	8.237	(1.074)	1341283	150.000	145.82
64	Styrene	104	8.256	8.256	(1.077)	2293595	150.000	151.38
66	Bromoform	173	8.406	8.406	(1.096)	616100	150.000	150.96
67	Isopropylbenzene	105	8.560	8.560	(1.116)	3423955	150.000	150.60
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	999723	150.000	133.32
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	1057321	150.000	151.02
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	426427	50.0000	
71	1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	728412	150.000	135.47(M)
72	trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	276176	150.000	157.10
73	n-Propylbenzene	91	8.912	8.912	(0.922)	4145728	150.000	147.73
74	Bromobenzene	156	8.803	8.803	(0.911)	998637	150.000	143.68
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	3021206	150.000	146.72
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	2465333	150.000	138.34

77	4-Chlorotoluene	91	9.066	9.066 (0.938)	2873857	150.000	144.58
78	tert-Butylbenzene	119	9.336	9.336 (0.966)	2516939	150.000	146.72

	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	9.377	9.377	(0.971)	3046806	150.000	146.66
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	3637698	150.000	150.35
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	3234520	150.000	152.70
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	1838273	150.000	148.54
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	1883662	150.000	142.20
86	Benzyl Chloride	91	9.804	9.804	(1.279)	1986937	150.000	166.55
87	n-Butylbenzene	91	9.992	9.992	(1.034)	2886932	150.000	160.02
88	1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	1800734	150.000	146.65
89	1,2-Dibromo-3-Chloropropane	155	10.651	10.651	(1.102)	182534	150.000	148.64
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	1349005	150.000	157.93
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	614842	150.000	160.36
92	Naphthalene	128	11.536	11.536	(1.194)	2944619	150.000	153.13
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	1213404	150.000	154.38
146	Methyl acetate	43	2.232	2.232	(0.534)	443517	150.000	150.95
138	Freon TF	101	1.917	1.917	(0.459)	548562	150.000	151.80
141	Cyclohexane	56	4.121	4.121	(0.986)	967778	150.000	152.95
142	Tetrahydrofuran	42	3.840	3.840	(0.918)	215293	300.000	297.61
147	Methylcyclohexane	55	5.377	5.377	(1.083)	1751972	150.000	165.34(A)
135	1,4-Dioxane	88	5.598	5.598	(1.339)	184006	3000.00	3058.89
132	n-Butanol	56	5.253	5.253	(1.256)	401679	3000.00	2960.90
131	Methyl Acrylate	55	3.683	3.683	(0.881)	649317	150.000	161.51(M)
133	Ethyl Acrylate	55	5.377	5.377	(1.286)	1751972	150.000	151.60
136	n-Hexane	57	2.772	2.772	(0.663)	791040	150.000	149.41
139	Diethyl ether	59	1.760	1.760	(0.421)	458570	150.000	147.46
148	Tert-butyl alcohol	59	2.431	2.431	(0.581)	1427844	3000.00	2801.23
149	Isopropyl alcohol	45	2.097	2.097	(0.502)	816586	3000.00	2902.35
156	Diisopropyl ether	45	3.001	3.001	(0.718)	2160748	150.000	147.59
160	2-Methylnaphthalene	142	12.631	12.631	(1.307)	1352043	150.000	160.64
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	3057315	150.000	150.83
167	Ethanol	45	1.707	1.707	(0.408)	127474	3000.00	2686.89
172	tert-Butyl formate	59	4.620	4.620	(1.105)	1196724	300.000	292.75(A)
173	3,3-Dimethyl-1-butanol	57	7.289	7.289	(0.951)	1664675	3000.00	2818.10
174	tert-Amyl methyl ether	73	4.665	4.665	(1.116)	2367965	150.000	148.72
175	tert-Butyl ethyl ether	59	3.375	3.375	(0.807)	2214645	150.000	146.16
176	tert-Amyl alcohol	59	4.620	4.620	(1.105)	1196724	3000.00	2870.24
151	4-Methyl-2-pentanol	45	6.712	6.712	(1.352)	3406170	3000.00	2825.27
180	1-Methylnaphthalene	142	12.631	12.631	(1.307)	1352043	150.000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.279)	610268	150.000	148.35
152	Amyl alcohol	42	6.899	6.899	(0.900)	451743	3000.00	3357.05
158	Dichlorofluoromethane	67	1.531	1.531	(0.366)	1052332	150.000	147.51
159	Propylene oxide	43	1.805	1.805	(0.432)	101677	300.000	231.04
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	427718	3000.00	3002.99
162	Butyl acrylate	55	8.249	8.249	(1.076)	1639896	150.000	152.49
163	Butyl methacrylate	41	9.171	9.171	(0.949)	1058796	150.000	147.62
164	Dicyclopentadiene	66	9.684	9.684	(1.002)	3392615	150.000	142.24
182	Epichlorohydrin	57	6.093	6.093	(1.227)	252651	600.000	557.11
M 94	1,2-Dichloroethylene (total)	96				1428285	300.000	285.32
M 95	Xylenes (total)	106				4121181	450.000	447.40
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	1536179	150.000	152.28
130	Ethyl Acetate	43	3.653	3.653	(0.874)	677648	150.000	133.92
134	Cyclohexanone	55	8.642	8.642	(0.894)	717000	3000.00	3000.09
185	Isoprene	39	1.771	1.771	(0.424)	170486	150.000	126.20

188 Isopropyl acetate	43	4.672	4.672 (0.941)	1922342	150.000	146.82
187 n-Amyl acetate	43	8.451	8.451 (1.102)	1418221	150.000	146.63

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
189 n-Butyl acetate	43	7.210	7.210	(0.940)	1191202	150.000	153.99(H)
150 Allyl alcohol	57	2.772	2.772	(0.663)	791040	3000.00	2988.03
194 Acetaldehyde	44	1.212	1.212	(0.290)	152553	600.000	590.61(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	1678861	150.000	157.86
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	1681271	150.000	156.96
202 Isobutylene	41	1.242	1.242	(0.297)	75658	150.000	159.41(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	1215186	150.000	151.37

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.
H - Operator selected an alternate compound hit.

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061511.D Page 1
Report Date: 05-Jul-2023 12:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061511.D
Lab Smp Id: VSTD200 Client Smp ID: VSTD200
Inj Date : 15-JUN-2023 14:45
Operator : PC Inst ID: voa6.i
Smp Info : VSTD200;VSTD200;1;10;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 14:45 Cal File: X061511.D
Als bottle: 12 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.181	4.181	(1.000)	500734	50.0000	
2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	870731	200.000	200.92(A)
3	Chloromethane	50	1.081	1.081	(0.259)	1090387	200.000	202.79(A)
4	Propionitrile	54	3.653	3.653	(0.874)	1249104	2000.00	2062.65(A)
5	Vinyl Chloride	62	1.145	1.145	(0.274)	1008184	200.000	191.71
6	Bromomethane	94	1.336	1.336	(0.320)	562025	200.000	186.18
7	Chloroethane	64	1.404	1.404	(0.336)	596342	200.000	185.51
8	Trichlorofluoromethane	101	1.561	1.561	(0.373)	1219530	200.000	195.14
9	Acrolein	56	1.445	1.445	(0.346)	130253	400.000	419.20(A)
10	Acetone	43	1.973	1.973	(0.472)	532376	400.000	408.57(A)
11	1,1-Dichloroethene	96	1.913	1.913	(0.458)	735339	200.000	187.57
12	Isobutyl Alcohol	43	4.676	4.676	(1.118)	2609313	4000.00	3996.46
13	Acetonitrile	39	2.198	2.198	(0.526)	973976	2000.00	2005.38(A)
14	Allyl Chloride	41	2.198	2.198	(0.526)	2178817	200.000	198.41
15	Iodomethane	142	2.030	2.030	(0.485)	2762966	400.000	400.85(A)
16	Acrylonitrile	53	2.532	2.532	(0.606)	656730	400.000	413.18(A)
17	Methylene Chloride	84	2.303	2.303	(0.551)	965975	200.000	174.44
18	Methyl tert-butyl ether	73	2.536	2.536	(0.606)	2607425	200.000	190.56
19	Carbon Disulfide	76	2.071	2.071	(0.495)	5590697	400.000	400.51(A)
20	trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	884359	200.000	188.52
21	Vinyl Acetate	43	2.997	2.997	(0.717)	4777086	400.000	381.54

22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	1592034	200.000	188.39
23 Chloroprene	53	1.771	1.771 (0.424)	322483	200.000	193.76

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	3.574	3.574	(0.855)	739267	400.000	448.61(A)
	25	Methacrylonitrile	41	3.818	3.818	(0.913)	813003	200.000	196.77(aH)
	26	2,2-Dichloropropane	77	3.510	3.510	(0.840)	1330788	200.000	199.57
	27	cis-1,2-Dichloroethene	96	3.525	3.525	(0.843)	1026334	200.000	189.72
	28	Chloroform	83	3.904	3.904	(0.934)	1629503	200.000	179.15
	29	Bromochloromethane	128	3.791	3.791	(0.907)	536706	200.000	186.18
$	30	Dibromofluoromethane	113	4.095	4.095	(0.979)	880893	200.000	198.00
	31	1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	1429867	200.000	194.50
	32	1,1-Dichloropropene	75	4.279	4.279	(0.862)	1285848	200.000	197.36
	33	1,2-Dichloroethane	62	4.552	4.552	(0.917)	1210936	200.000	185.49
	34	Carbon Tetrachloride	117	4.264	4.264	(0.859)	1238094	200.000	197.60
$	35	1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	943547	200.000	197.96
*	36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	777502	50.0000	
	37	Benzene	78	4.511	4.511	(0.909)	3860956	200.000	193.05
	38	Trichloroethene	130	5.205	5.205	(1.048)	1100510	200.000	199.57
	39	Bromodichloromethane	83	5.722	5.722	(1.153)	1329286	200.000	187.89
	40	Methyl Methacrylate	41	5.602	5.602	(1.340)	793003	200.000	204.57(A)
	41	2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	772540	400.000	403.55(A)
	42	1,2-Dichloropropane	63	5.433	5.433	(1.094)	1005868	200.000	191.61
	43	2-Nitropropane	43	5.966	5.966	(1.427)	275555	200.000	204.17(AH)
	44	Dibromomethane	93	5.550	5.550	(1.118)	616840	200.000	187.18
	45	4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	1860837	400.000	388.95
	46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	1727929	200.000	198.09
*	47	Chlorobenzene-d5	117	7.668	7.668	(1.000)	740608	50.0000	
$	48	Toluene-d8	98	6.386	6.386	(0.833)	3423635	200.000	182.84
	49	Ethyl Methacrylate	69	6.787	6.787	(1.367)	1418759	200.000	205.69(H)
	50	Toluene	91	6.446	6.446	(0.841)	4158414	200.000	191.25
	51	trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	1476151	200.000	202.26(A)
	52	2-Hexanone	43	7.087	7.087	(0.924)	1310331	400.000	410.03(A)
	53	1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	783101	200.000	184.87
	54	1,3-Dichloropropane	76	6.982	6.982	(0.911)	1618260	200.000	188.94
	55	Dibromochloromethane	129	7.173	7.173	(0.935)	1177842	200.000	196.20
	56	Tetrachloroethene	164	6.925	6.925	(0.903)	893575	200.000	199.85
	57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	1022111	200.000	188.78
	58	1-Chlorohexane	55	7.694	7.694	(1.550)	936346	200.000	198.03
	59	Chlorobenzene	112	7.694	7.694	(1.003)	2846238	200.000	191.31
	60	1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	1086600	200.000	195.87
	61	Ethylbenzene	106	7.799	7.799	(1.017)	1500758	200.000	195.79
	62	m,p-Xylenes	106	7.904	7.904	(1.031)	3779135	400.000	399.80
	63	o-Xylene	106	8.241	8.241	(1.075)	1840180	200.000	195.10
	64	Styrene	104	8.256	8.256	(1.077)	3122657	200.000	200.99(A)
	66	Bromoform	173	8.406	8.406	(1.096)	854791	200.000	204.24(A)
	67	Isopropylbenzene	105	8.560	8.560	(1.116)	4678011	200.000	200.65(A)
	68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	1363444	200.000	178.47
$	69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	1427380	200.000	198.99
*	70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	434451	50.0000	
	71	1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	991732	200.000	181.04
	72	trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	376547	200.000	208.89(A)
	73	n-Propylbenzene	91	8.912	8.912	(0.922)	5621706	200.000	196.63
	74	Bromobenzene	156	8.803	8.803	(0.911)	1365635	200.000	192.85
	75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	4092223	200.000	195.07
	76	2-Chlorotoluene	91	8.972	8.972	(0.929)	3338118	200.000	183.86

77	4-Chlorotoluene	91	9.070	9.070 (0.939)	3900026	200.000	192.58
78	tert-Butylbenzene	119	9.336	9.336 (0.966)	3451610	200.000	197.49

	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	9.377	9.377	(0.971)	4101830	200.000	193.80
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	4934096	200.000	200.17(A)
82	p-Isopropyltoluene	119	9.651	9.651	(0.999)	4354959	200.000	201.80(A)
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	2489876	200.000	197.48
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	2548117	200.000	188.81
86	Benzyl Chloride	91	9.804	9.804	(1.279)	2673170	200.000	218.52(A)
87	n-Butylbenzene	91	9.992	9.992	(1.034)	3887765	200.000	211.52(A)
88	1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	2411595	200.000	192.77
89	1,2-Dibromo-3-Chloropropane	155	10.651	10.651	(1.102)	252682	200.000	201.87(A)
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	1825345	200.000	209.75(A)
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	844451	200.000	216.17(A)
92	Naphthalene	128	11.540	11.540	(1.194)	3981585	200.000	203.23(A)
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	1629136	200.000	203.44(A)
146	Methyl acetate	43	2.228	2.228	(0.533)	591833	200.000	199.68
138	Freon TF	101	1.917	1.917	(0.459)	742502	200.000	198.98
141	Cyclohexane	56	4.121	4.121	(0.986)	1339211	200.000	209.80(A)
142	Tetrahydrofuran	42	3.840	3.840	(0.918)	288575	400.000	395.43
147	Methylcyclohexane	55	5.377	5.377	(1.083)	2344010	200.000	215.71(A)
135	1,4-Dioxane	88	5.598	5.598	(1.339)	251392	4000.00	4142.70(A)
132	n-Butanol	56	5.253	5.253	(1.256)	566916	4000.00	4116.53(A)
131	Methyl Acrylate	55	3.683	3.683	(0.881)	844222	200.000	208.16(AM)
133	Ethyl Acrylate	55	5.377	5.377	(1.286)	2344010	200.000	200.29(A)
136	n-Hexane	57	2.772	2.772	(0.663)	1078975	200.000	185.23
139	Diethyl ether	59	1.760	1.760	(0.421)	599110	200.000	190.97
148	Tert-butyl alcohol	59	2.434	2.434	(0.582)	1985652	4000.00	3861.64
149	Isopropyl alcohol	45	2.101	2.101	(0.502)	1121361	4000.00	3950.87
156	Diisopropyl ether	45	3.001	3.001	(0.718)	2810226	200.000	190.29
160	2-Methylnaphthalene	142	12.635	12.635	(1.308)	1856948	200.000	216.55(A)
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	4027136	200.000	195.00
167	Ethanol	45	1.711	1.711	(0.409)	164628	4000.00	3439.79
172	tert-Butyl formate	59	4.620	4.620	(1.105)	1716317	400.000	416.20(A)
173	3,3-Dimethyl-1-butanol	57	7.289	7.289	(0.951)	2284760	4000.00	3771.87
174	tert-Amyl methyl ether	73	4.665	4.665	(1.116)	3031355	200.000	188.73
175	tert-Butyl ethyl ether	59	3.375	3.375	(0.807)	2921006	200.000	191.10
176	tert-Amyl alcohol	59	4.620	4.620	(1.105)	1716317	4000.00	4080.59(A)
151	4-Methyl-2-pentanol	45	6.715	6.715	(1.353)	4769923	4000.00	3857.96
180	1-Methylnaphthalene	142	12.635	12.635	(1.308)	1856948	200.000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.279)	817942	200.000	197.11
152	Amyl alcohol	42	6.899	6.899	(0.900)	628432	4000.00	4554.22(A)
158	Dichlorofluoromethane	67	1.531	1.531	(0.366)	1380643	200.000	191.85
159	Propylene oxide	43	1.805	1.805	(0.432)	129706	400.000	292.17
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	594725	4000.00	4059.34(A)
162	Butyl acrylate	55	8.249	8.249	(1.076)	2199388	200.000	199.27
163	Butyl methacrylate	41	9.171	9.171	(0.949)	1360235	200.000	186.15
164	Dicyclopentadiene	66	9.684	9.684	(1.002)	4448649	200.000	183.07
182	Epichlorohydrin	57	6.093	6.093	(1.227)	344824	800.000	741.43
M 94	1,2-Dichloroethylene (total)	96				1910693	400.000	378.25
M 95	Xylenes (total)	106				5619315	600.000	594.91
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	2087733	200.000	203.13(A)
130	Ethyl Acetate	43	3.653	3.653	(0.874)	911790	200.000	178.63
134	Cyclohexanone	55	8.642	8.642	(0.894)	970775	4000.00	3991.19
185	Isoprene	39	1.771	1.771	(0.424)	228794	200.000	167.89

188 Isopropyl acetate	43	4.676	4.676 (0.942)	2610700	200.000	194.43
187 n-Amyl acetate	43	8.451	8.451 (1.102)	1947829	200.000	196.39

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
189 n-Butyl acetate	43	7.210	7.210	(0.940)	1653381	200.000	208.44(AH)
150 Allyl alcohol	57	2.772	2.772	(0.663)	1078975	4000.00	3702.64
194 Acetaldehyde	44	1.212	1.212	(0.290)	210164	800.000	807.82(AM)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	2319422	200.000	212.69
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	2229099	200.000	202.95(A)
202 Isobutylene	41	1.242	1.242	(0.297)	87901	200.000	183.59(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	1627894	200.000	198.64

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.
H - Operator selected an alternate compound hit.

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061514.D
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 15-JUN-2023 15:47
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;ICV
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 05-Jul-2023 13:01 pcabasca Quant Type: ISTD
Cal Date : 15-JUN-2023 14:45 Cal File: X061511.D
Als bottle: 15 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.181	4.182	(1.000)	509722	50.0000	
2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	214534	48.8826	48.88
3	Chloromethane	50	1.081	1.081	(0.259)	258398	47.9982	47.99
4	Propionitrile	54	3.649	3.653	(0.873)	307140	498.240	498.23
5	Vinyl Chloride	62	1.149	1.145	(0.275)	245673	45.8930	45.89
6	Bromomethane	94	1.344	1.336	(0.321)	144213	46.9322	46.93
7	Chloroethane	64	1.407	1.404	(0.337)	150976	46.1389	46.13
8	Trichlorofluoromethane	101	1.565	1.561	(0.374)	294811	46.3438	46.34
9	Acrolein	56	1.449	1.445	(0.347)	32873	103.933	103.93
10	Acetone	43	1.973	1.973	(0.472)	116365	87.5170	87.51
11	1,1-Dichloroethene	96	1.917	1.913	(0.459)	176439	44.2134	44.21
12	Isobutyl Alcohol	43	4.676	4.676	(1.118)	651365	980.049	980.04
13	Acetonitrile	39	2.202	2.198	(0.527)	244238	494.012	494.01
14	Allyl Chloride	41	2.202	2.198	(0.527)	549138	49.1255	49.12
15	Iodomethane	142	2.030	2.030	(0.485)	608491	92.1912	92.19
16	Acrylonitrile	53	2.536	2.532	(0.606)	152210	94.0753	94.07
17	Methylene Chloride	84	2.307	2.303	(0.552)	246468	43.7245	43.72
18	Methyl tert-butyl ether	73	2.536	2.536	(0.606)	659861	47.3759	47.37
19	Carbon Disulfide	76	2.071	2.071	(0.495)	1287120	90.5820	90.58
20	trans-1,2-Dichloroethene	96	2.532	2.528	(0.606)	215985	45.2311	45.23
21	Vinyl Acetate	43	2.997	2.997	(0.717)	1325257	103.982	103.98

22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	397167	46.1701	46.17
23 Chloroprene	53	1.775	1.771 (0.424)	75864	44.7792	44.77(M)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061514.D Page 2
Report Date: 05-Jul-2023 13:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
24	2-Butanone	43	3.578	3.574	(0.856)	171772	102.399	102.39
25	Methacrylonitrile	41	3.821	3.818	(0.914)	205167	48.7822	48.78(a)
26	2,2-Dichloropropane	77	3.507	3.510	(0.839)	334289	49.2448	49.24
27	cis-1,2-Dichloroethene	96	3.525	3.525	(0.843)	255198	46.3440	46.34
28	Chloroform	83	3.904	3.904	(0.934)	410273	44.3120	44.31
29	Bromochloromethane	128	3.791	3.791	(0.907)	131825	44.9251	44.92
$ 30	Dibromofluoromethane	113	4.095	4.095	(0.979)	231563	50.8743	50.87
31	1,1,1-Trichloroethane	97	4.084	4.080	(0.977)	336318	44.9425	44.94
32	1,1-Dichloropropene	75	4.279	4.279	(0.862)	300244	46.8218	46.82
33	1,2-Dichloroethane	62	4.556	4.552	(0.918)	315493	49.1002	49.10
34	Carbon Tetrachloride	117	4.264	4.264	(0.859)	284726	46.1687	46.16
$ 35	1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	245968	50.0578	50.05
* 36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	765274	50.0000	
37	Benzene	78	4.511	4.511	(0.909)	926258	47.0543	47.05
38	Trichloroethene	130	5.205	5.205	(1.048)	253674	46.7386	46.73
39	Bromodichloromethane	83	5.726	5.722	(1.153)	323221	46.4181	46.41
40	Methyl Methacrylate	41	5.606	5.602	(1.341)	195129	49.4504	49.45
41	2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	193194	102.531	102.53
42	1,2-Dichloropropane	63	5.433	5.433	(1.094)	250346	48.4517	48.45
43	2-Nitropropane	43	5.966	5.966	(1.427)	66738	48.5782	48.57
44	Dibromomethane	93	5.550	5.550	(1.118)	156421	48.2255	48.22
45	4-Methyl-2-Pentanone	43	6.322	6.326	(0.824)	454515	97.9815	97.98
46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	423471	49.3235	49.32
* 47	Chlorobenzene-d5	117	7.668	7.668	(1.000)	718105	50.0000	
$ 48	Toluene-d8	98	6.385	6.386	(0.833)	882596	48.6137	48.61
49	Ethyl Methacrylate	69	6.787	6.787	(1.367)	346158	49.5136	49.51(H)
50	Toluene	91	6.445	6.446	(0.841)	998880	47.3815	47.38
51	trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	356578	49.6394	49.63
52	2-Hexanone	43	7.083	7.087	(0.924)	305522	98.6011	98.60
53	1,1,2-Trichloroethane	83	6.835	6.839	(0.891)	193376	47.0835	47.08
54	1,3-Dichloropropane	76	6.978	6.982	(0.910)	402435	48.4613	48.46
55	Dibromochloromethane	129	7.173	7.173	(0.935)	279460	48.0113	48.01
56	Tetrachloroethene	164	6.925	6.925	(0.903)	197937	45.6581	45.65
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	249128	47.4564	47.45
58	1-Chlorohexane	55	7.694	7.694	(1.550)	211982	45.5501	45.55
59	Chlorobenzene	112	7.690	7.694	(1.003)	674130	46.7334	46.73
60	1,1,1,2-Tetrachloroethane	131	7.772	7.773	(1.014)	252112	46.8710	46.87
61	Ethylbenzene	106	7.799	7.799	(1.017)	340331	45.7927	45.79
62	m,p-Xylenes	106	7.900	7.904	(1.030)	872232	95.1686	95.16
63	o-Xylene	106	8.241	8.241	(1.075)	422526	46.2011	46.20
64	Styrene	104	8.256	8.256	(1.077)	731241	48.5426	48.54
66	Bromoform	173	8.406	8.406	(1.096)	195942	48.2868	48.28
67	Isopropylbenzene	105	8.560	8.560	(1.116)	1032573	45.6790	45.67
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	329570	46.2456	46.24
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	354160	50.5205	50.52
* 70	1,4-Dichlorobenzene-d4	152	9.658	9.662	(1.000)	405289	50.0000	
71	1,2,3-Trichloropropane	75	8.863	8.863	(0.918)	240888	47.1386	47.13
72	trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	89627	51.2789	51.27
73	n-Propylbenzene	91	8.908	8.912	(0.922)	1239999	46.4940	46.49
74	Bromobenzene	156	8.803	8.803	(0.912)	315772	47.8031	47.80
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.939)	902621	46.1233	46.12
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	765561	45.2024	45.20

77	4-Chlorotoluene	91	9.070	9.070 (0.939)	883443	46.7644	46.76
78	tert-Butylbenzene	119	9.332	9.336 (0.966)	736998	45.2039	45.20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	912898	46.2361	46.23	
81	sec-Butylbenzene	105	9.519	9.519	(0.986)	1040841	45.2652	45.26	
82	p-Isopropyltoluene	119	9.647	9.651	(0.999)	938869	46.6363	46.63	
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	556559	47.3190	47.31	
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	583574	46.3543	46.35	
86	Benzyl Chloride	91	9.804	9.804	(1.279)	626201	52.7942	52.79	
87	n-Butylbenzene	91	9.992	9.992	(1.035)	835815	48.7460	48.74	
88	1,2-Dichlorobenzene	146	9.992	9.988	(1.035)	552785	47.3667	47.36	
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.651	(1.103)	58604	50.3869	50.38	
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	410761	50.5971	50.59	
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	181092	49.6950	49.69	
92	Naphthalene	128	11.540	11.540	(1.195)	958210	52.4312	52.43	
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	379747	50.8353	50.83	
146	Methyl acetate	43	2.232	2.228	(0.534)	146905	48.6925	48.69	
138	Freon TF	101	1.917	1.917	(0.459)	176578	49.7965	49.79	
141	Cyclohexane	56	4.121	4.121	(0.986)	304147	46.8095	46.80	
142	Tetrahydrofuran	42	3.844	3.840	(0.919)	72193	97.1828	97.18	
147	Methylcyclohexane	55	5.381	5.377	(1.084)	572402	53.5176	53.51	
135	1,4-Dioxane	88	5.598	5.598	(1.339)	60399	977.769	977.76	
132	n-Butanol	56	5.253	5.253	(1.256)	115761	877.798	877.79	
131	Methyl Acrylate	55	3.690	3.683	(0.883)	218984	53.0445	53.04	
133	Ethyl Acrylate	55	5.381	5.377	(1.287)	572402	49.8469	49.84	
136	n-Hexane	57	2.772	2.772	(0.663)	235619	50.4611	50.46	
139	Diethyl ether	59	1.760	1.760	(0.421)	149426	46.7925	46.79	
148	Tert-butyl alcohol	59	2.427	2.434	(0.580)	475653	908.726	908.72	
149	Isopropyl alcohol	45	2.093	2.101	(0.501)	262728	909.344	909.34	
156	Diisopropyl ether	45	3.000	3.001	(0.718)	720807	47.9480	47.94	
160	2-Methylnaphthalene	142	12.634	12.635	(1.308)	412966	51.6255	51.62	
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	962880	49.9814	49.98	
167	Ethanol	45	1.707	1.711	(0.408)	42882	880.193	880.19	
172	tert-Butyl formate	59	4.612	4.620	(1.103)	377999	90.0470	90.04	
173	3,3-Dimethyl-1-butanol	57	7.285	7.289	(0.950)	491431	836.719	836.71	
174	tert-Amyl methyl ether	73	4.665	4.665	(1.116)	767180	46.9237	46.92	
175	tert-Butyl ethyl ether	59	3.379	3.375	(0.808)	732420	47.0732	47.07	
176	tert-Amyl alcohol	59	4.612	4.620	(1.103)	377999	882.856	882.85	
151	4-Methyl-2-pentanol	45	6.708	6.715	(1.351)	1019666	837.894	837.89	
180	1-Methylnaphthalene	142	12.634	12.635	(1.308)	412966			(a)
140	1,3-Butadiene	54	1.167	1.167	(0.279)	197461	46.7466	46.74	
152	Amyl alcohol	42	6.899	6.899	(0.900)	134777	1007.33	1007.33	
158	Dichlorofluoromethane	67	1.535	1.531	(0.367)	346552	47.3072	47.30	
159	Propylene oxide	43	1.805	1.805	(0.432)	34962	77.3664	77.36	
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	128525	932.271	932.27	
162	Butyl acrylate	55	8.249	8.249	(1.076)	517977	48.8182	48.81	
163	Butyl methacrylate	41	9.167	9.171	(0.949)	356803	52.3425	52.34	
164	Dicyclopentadiene	66	9.681	9.684	(1.002)	1084753	47.8537	47.85	
182	Epichlorohydrin	57	6.093	6.093	(1.227)	86073	188.030	188.03	
M 94	1,2-Dichloroethylene (total)	96				471183	91.5752	91.57	
M 95	Xylenes (total)	106				1294758	141.370	141.36	
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	464373	48.4344	48.43	
130	Ethyl Acetate	43	3.653	3.653	(0.874)	232567	44.7604	44.76	
134	Cyclohexanone	55	8.642	8.642	(0.895)	220343	961.261	961.26	
185	Isoprene	39	1.775	1.771	(0.424)	56227	40.5342	40.53	

188 Isopropyl acetate	43	4.676	4.676 (0.942)	654077	49.4906	49.49
187 n-Amyl acetate	43	8.451	8.451 (1.102)	451123	46.9115	46.91

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
189 n-Butyl acetate	43	7.210	7.210	(0.940)	389990	50.7070	50.70
150 Allyl alcohol	57	2.772	2.772	(0.663)	235619	1009.19	1009.18
194 Acetaldehyde	44	1.216	1.212	(0.291)	49504	184.279	184.27(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	514505	48.6589	48.65
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	538113	50.5285	50.52
202 Isobutylene	41	1.242	1.242	(0.297)	21692	44.5092	44.50(M)
205 2-Ethylhexyl Acrylate	55	11.544	11.547	(1.195)	388849	51.8072	51.80

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.

right solutions.
right partner.

Raw Data VOA6 439909

Volatiles by EPA 8260

Workorder

HS23061712

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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\voa6.i\X230626.b\X062601.D Page 1
Report Date: 26-Jun-2023 13:00

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062601.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 26-JUN-2023 12:33
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\bfb.m
Meth Date : 14-Mar-2023 15:45 Linh.Pham 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: NAHSTW7051

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	
8.691	8.889	(0.000)	95	65344			0.00- 100.00	100.00
8.691	8.889	(0.000)	50	10803			15.00- 40.00	16.53
8.691	8.889	(0.000)	75	29936			30.00- 60.00	45.81
8.691	8.889	(0.000)	96	4349			5.00- 9.00	6.66
8.691	8.889	(0.000)	173	692			0.00- 2.00	1.17
8.691	8.889	(0.000)	174	59104			50.00- 0.00	90.45
8.691	8.889	(0.000)	175	3562			5.00- 9.00	6.03
8.691	8.889	(0.000)	176	58504			95.00- 101.00	98.98
8.691	8.889	(0.000)	177	3870			5.00- 9.00	6.61

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.53
75	30.00 - 60.00% of mass 95	45.81
96	5.00 - 9.00% of mass 95	6.66
173	Less than 2.00% of mass 174	1.06 (1.17)
174	Greater than 50.00% of mass 95	90.45
175	5.00 - 9.00% of mass 174	5.45 (6.03)
176	95.00 - 101.00% of mass 174	89.53 (98.98)
177	5.00 - 9.00% of mass 176	5.92 (6.61)

Data File: X062601.D
Spectrum: Scan 2161 (8.69)
Location of Maximum: 95.00
Number of points: 99

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	530	62.00	2463	87.90	2479	129.90	286
37.00	2752	63.00	2257	90.80	384	130.80	122
38.00	2228	63.90	153	92.00	1781	133.90	78
39.00	1730	65.10	77	93.00	2290	135.00	83
40.00	1606	65.90	115	94.00	7288	138.80	99
41.00	1090	66.90	137	95.00	65344	140.90	579
42.10	1094	68.00	5790	96.00	4349	142.00	55
43.10	1241	69.00	6848	96.90	165	142.80	620
44.00	1493	70.10	928	98.10	998	145.70	95
44.90	543	71.10	556	99.00	153	147.90	101
46.90	601	72.00	553	103.90	397	148.90	84
47.80	285	73.00	2582	105.00	132	149.80	157
49.10	2301	74.00	9464	105.80	400	154.80	339
50.10	10803	75.00	29936	106.80	206	157.00	132
51.10	3847	76.00	2195	108.90	123	158.70	172
52.00	358	76.90	525	111.20	93	160.70	60
52.90	334	78.10	527	112.90	153	172.70	692
54.10	196	78.90	1696	115.00	65	173.90	59104
55.00	2367	79.80	413	115.80	196	174.90	3562
56.00	1679	81.00	1974	116.80	519	175.90	58504
57.10	3101	81.90	404	117.80	311	176.90	3870
58.10	562	82.90	265	118.90	166	177.80	90
58.90	66	83.90	58	125.70	63	186.10	130
60.10	546	85.10	347	127.90	375	206.80	50
61.00	2939	86.90	2609	128.90	138		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062601.D Page 1

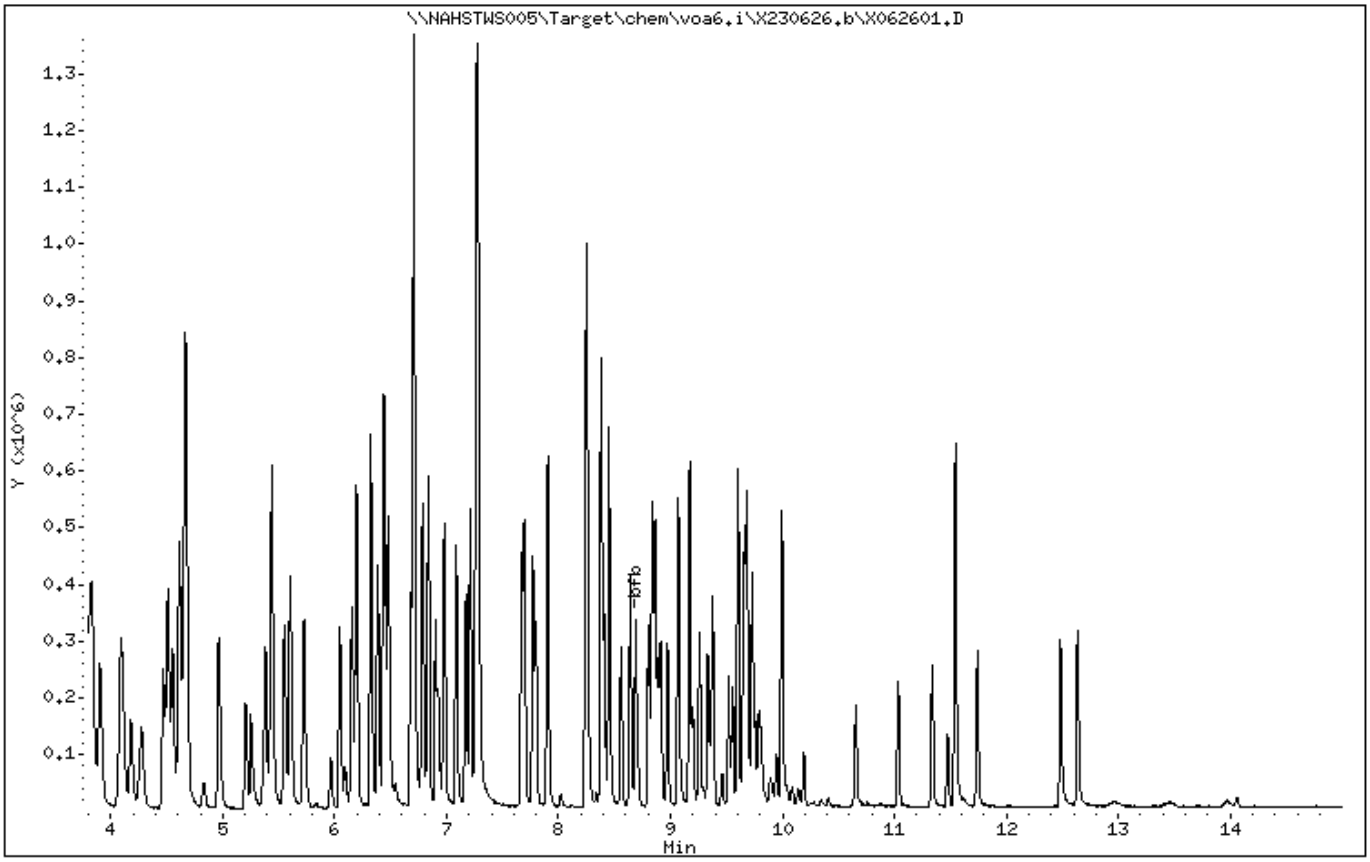
Date : 26-JUN-2023 12:33

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062601.D

Date : 26-JUN-2023 12:33

Client ID: BFB

Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

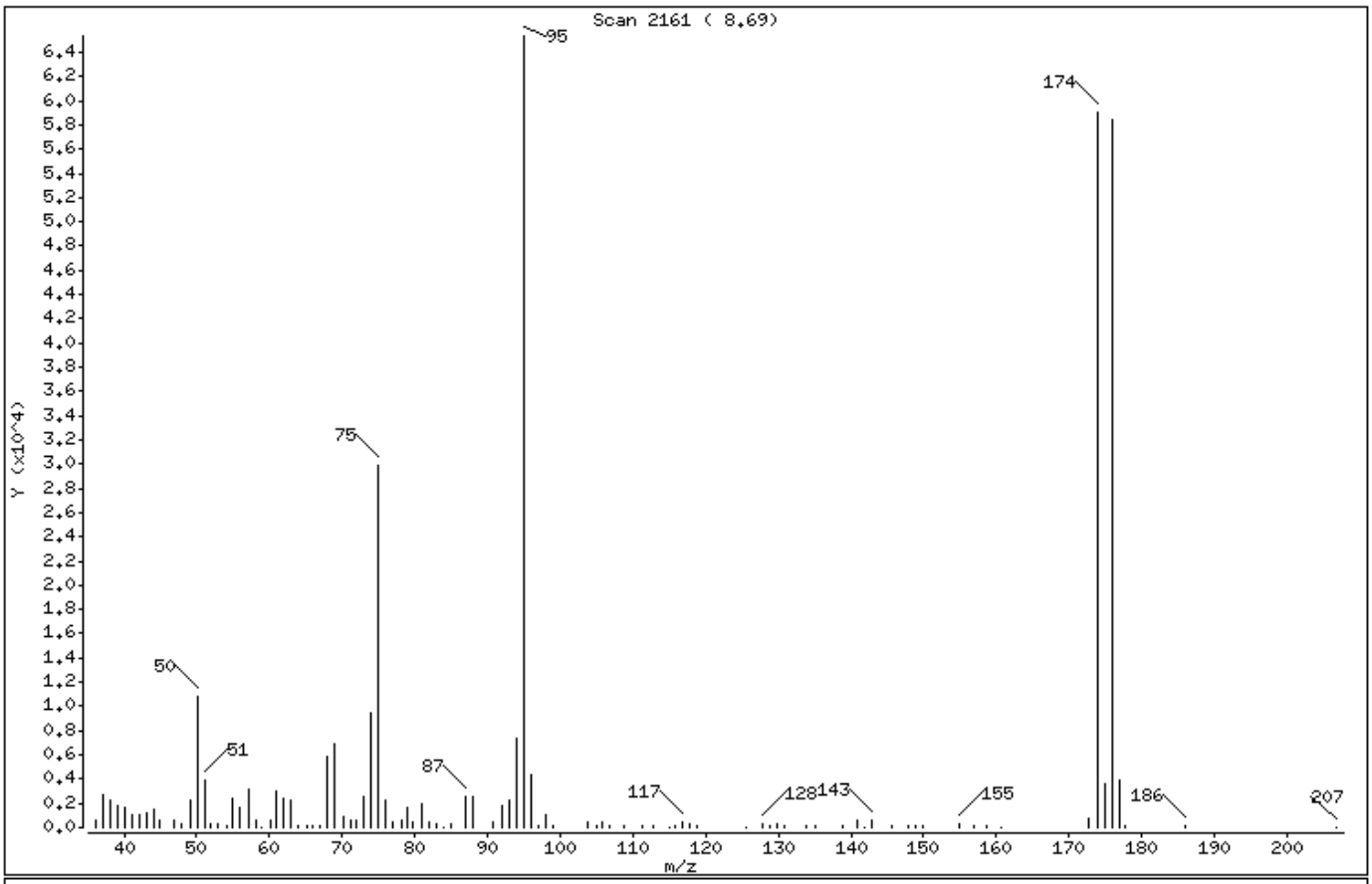
Volume Injected (uL): 2.0

Operator: PC

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	16.53
75	30.00 - 60.00% of mass 95	45.81
96	5.00 - 9.00% of mass 95	6.66
173	Less than 2.00% of mass 174	1.06 (1.17)
174	Greater than 50.00% of mass 95	90.45
175	5.00 - 9.00% of mass 174	5.45 (6.03)
176	95.00 - 101.00% of mass 174	89.53 (98.98)
177	5.00 - 9.00% of mass 176	5.92 (6.61)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062601.D

Date : 26-JUN-2023 12:33

Client ID: BFB

Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25

Data File: X062601.D
Spectrum: Scan 2161 (8.69)
Location of Maximum: 95.00
Number of points: 99

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	530	62.00	2463	87.90	2479	129.90	286
37.00	2752	63.00	2257	90.80	384	130.80	122
38.00	2228	63.90	153	92.00	1781	133.90	78
39.00	1730	65.10	77	93.00	2290	135.00	83
40.00	1606	65.90	115	94.00	7288	138.80	99
41.00	1090	66.90	137	95.00	65344	140.90	579
42.10	1094	68.00	5790	96.00	4349	142.00	55
43.10	1241	69.00	6848	96.90	165	142.80	620
44.00	1493	70.10	928	98.10	998	145.70	95
44.90	543	71.10	556	99.00	153	147.90	101
46.90	601	72.00	553	103.90	397	148.90	84
47.80	285	73.00	2582	105.00	132	149.80	157
49.10	2301	74.00	9464	105.80	400	154.80	339
50.10	10803	75.00	29936	106.80	206	157.00	132
51.10	3847	76.00	2195	108.90	123	158.70	172
52.00	358	76.90	525	111.20	93	160.70	60
52.90	334	78.10	527	112.90	153	172.70	692
54.10	196	78.90	1696	115.00	65	173.90	59104
55.00	2367	79.80	413	115.80	196	174.90	3562
56.00	1679	81.00	1974	116.80	519	175.90	58504
57.10	3101	81.90	404	117.80	311	176.90	3870
58.10	562	82.90	265	118.90	166	177.80	90
58.90	66	83.90	58	125.70	63	186.10	130
60.10	546	85.10	347	127.90	375	206.80	50
61.00	2939	86.90	2609	128.90	138		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062603.D Page 1
Report Date: 06-Jul-2023 12:04

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062603.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 26-JUN-2023 13:15
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\8260W.m
Meth Date : 06-Jul-2023 12:04 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.177	4.177	(1.000)	448462	50.0000	
135	1,4-Dioxane	88	5.594	5.594	(1.339)	54102	1000.00	995.46
140	1,3-Butadiene	54	1.167	1.167	(0.280)	159511	50.0000	42.92
25	Methacrylonitrile	41	3.818	3.818	(0.914)	181184	50.0000	48.96
12	Isobutyl Alcohol	43	4.672	4.672	(1.118)	576706	1000.00	986.24
13	Acetonitrile	39	2.202	2.202	(0.527)	207879	500.000	477.90
14	Allyl Chloride	41	2.202	2.202	(0.527)	458591	50.0000	46.62
4	Propionitrile	54	3.653	3.653	(0.874)	276584	500.000	509.96
72	trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	75495	50.0000	48.22
130	Ethyl Acetate	43	3.656	3.656	(0.875)	206472	50.0000	45.16
40	Methyl Methacrylate	41	5.602	5.602	(1.341)	174890	50.0000	50.37
49	Ethyl Methacrylate	69	6.708	6.708	(1.351)	223841	50.0000	46.21
131	Methyl Acrylate	55	3.690	3.690	(0.883)	190291	50.0000	52.39
139	Diethyl ether	59	1.760	1.760	(0.421)	141798	50.0000	50.46
156	Diisopropyl ether	45	3.000	3.000	(0.718)	634820	50.0000	47.99
2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	155035	50.0000	40.21
3	Chloromethane	50	1.085	1.085	(0.260)	209428	50.0000	44.29
5	Vinyl Chloride	62	1.149	1.149	(0.275)	201305	50.0000	42.74
6	Bromomethane	94	1.343	1.343	(0.322)	125799	50.0000	46.53
7	Chloroethane	64	1.407	1.407	(0.337)	133846	50.0000	46.49

8	Trichlorofluoromethane	101	1.565	1.565 (0.375)	257322	50.0000	45.97
9	Acrolein	56	1.448	1.448 (0.347)	26874	100.000	96.57

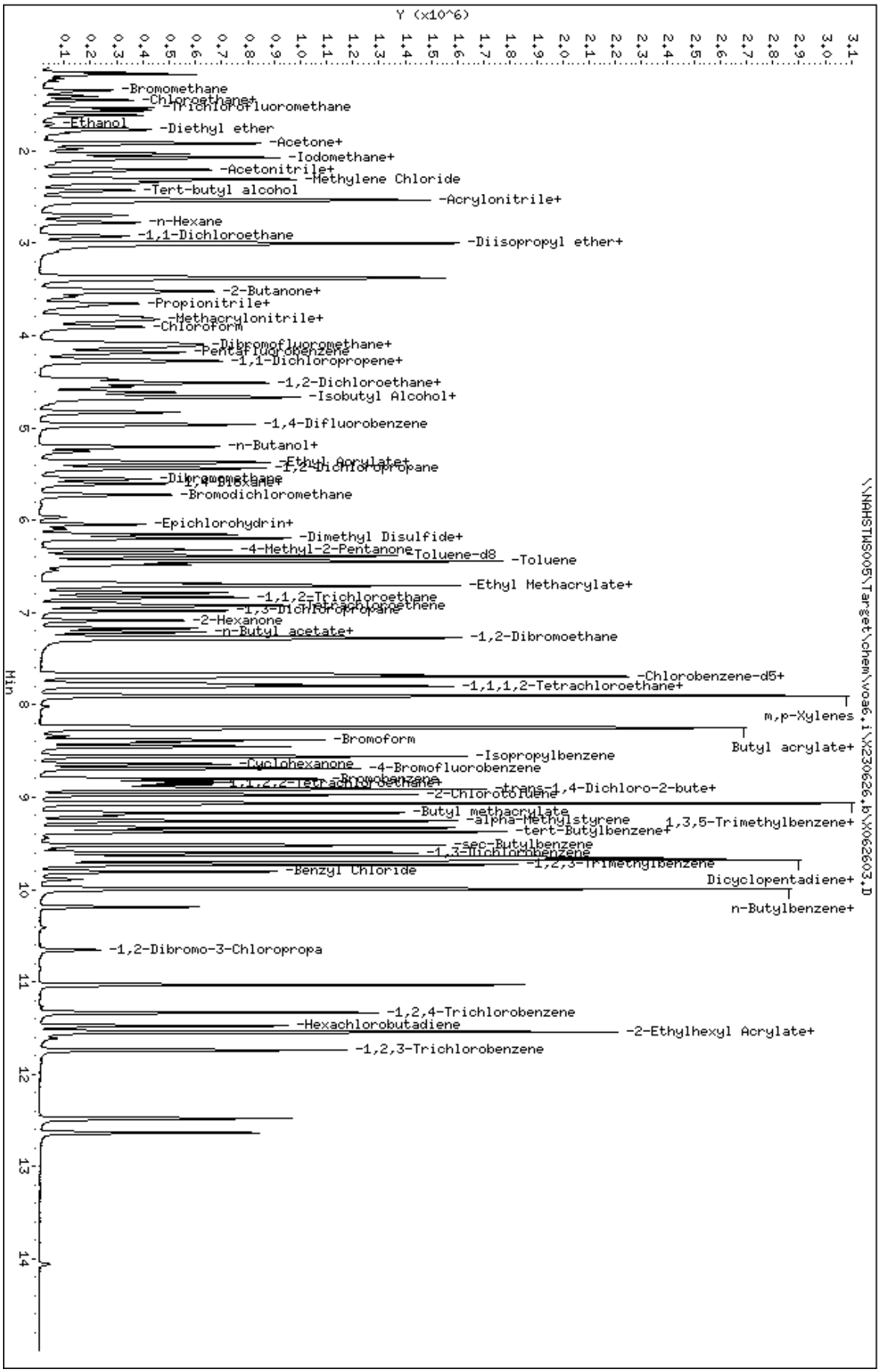
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	10 Acetone	43	1.973	1.973	(0.472)	118191	100.000	101.07
	11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	157019	50.0000	44.72
	15 Iodomethane	142	2.029	2.029	(0.486)	588199	100.000	100.95
	16 Acrylonitrile	53	2.536	2.536	(0.607)	135080	100.000	94.89
	17 Methylene Chloride	84	2.307	2.307	(0.552)	216253	50.0000	43.60
	18 Methyl tert-butyl ether	73	2.536	2.536	(0.607)	598723	50.0000	48.85
	19 Carbon Disulfide	76	2.071	2.071	(0.496)	1065710	100.000	85.24
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	189940	50.0000	45.21
	21 Vinyl Acetate	43	2.997	2.997	(0.717)	1143723	100.000	101.99
	22 1,1-Dichloroethane	63	2.922	2.922	(0.699)	341526	50.0000	45.12
	24 2-Butanone	43	3.578	3.578	(0.856)	148805	100.000	100.82
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	290267	50.0000	48.60
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	224823	50.0000	46.40
	28 Chloroform	83	3.908	3.908	(0.935)	362277	50.0000	44.47
	29 Bromochloromethane	128	3.791	3.791	(0.908)	122039	50.0000	47.27
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	203844	50.0000	50.90
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	299139	50.0000	45.43
	32 1,1-Dichloropropene	75	4.282	4.282	(0.863)	256409	50.0000	45.28
	33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	279762	50.0000	49.30
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	250850	50.0000	46.06
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	215789	50.0000	49.91
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	675768	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	817894	50.0000	47.05
	38 Trichloroethene	130	5.205	5.205	(1.048)	228141	50.0000	47.60
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	290935	50.0000	47.31
	41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	161207	100.000	96.88
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	216414	50.0000	47.43
	44 Dibromomethane	93	5.553	5.553	(1.119)	142956	50.0000	49.91
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	398291	100.000	95.85
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	374266	50.0000	49.36
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	643218	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	782392	50.0000	48.11
	50 Toluene	91	6.445	6.445	(0.841)	877804	50.0000	46.48
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	320064	50.0000	50.45
	52 2-Hexanone	43	7.086	7.086	(0.924)	283244	100.000	102.05
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	177893	50.0000	48.35
	54 1,3-Dichloropropane	76	6.978	6.978	(0.910)	358969	50.0000	48.25
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	258691	50.0000	49.61
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	177867	50.0000	45.80
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	229432	50.0000	48.79
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	179360	50.0000	43.64
	59 Chlorobenzene	112	7.690	7.690	(1.003)	610517	50.0000	47.25
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	229712	50.0000	47.67
	61 Ethylbenzene	106	7.799	7.799	(1.017)	301304	50.0000	45.26
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	768880	100.000	93.65
	63 o-Xylene	106	8.237	8.237	(1.074)	378560	50.0000	46.21
	64 Styrene	104	8.256	8.256	(1.077)	655071	50.0000	48.54
	66 Bromoform	173	8.406	8.406	(1.096)	183814	50.0000	50.57
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	896514	50.0000	44.27
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	296145	50.0000	46.61
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	317658	50.0000	50.58
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	361290	50.0000	

71 1,2,3-Trichloropropane	75	8.859	8.859 (0.917)	216209	50.0000	47.46
73 n-Propylbenzene	91	8.908	8.908 (0.922)	1068918	50.0000	44.96

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
74	Bromobenzene	156	8.803	8.803	(0.911)	282607	50.0000	47.99	
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	784838	50.0000	44.98	
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	670155	50.0000	44.38	
77	4-Chlorotoluene	91	9.069	9.069	(0.939)	771792	50.0000	45.82	
78	tert-Butylbenzene	119	9.332	9.332	(0.966)	639350	50.0000	43.99	
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	802517	50.0000	45.59	
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	898618	50.0000	43.83	
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	814993	50.0000	45.41	
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	486229	50.0000	46.37	
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	516509	50.0000	46.02	
87	n-Butylbenzene	91	9.992	9.992	(1.034)	718279	50.0000	46.99	
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	497371	50.0000	47.80	
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	53975	50.0000	52.04	
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	357106	50.0000	49.34	
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	156344	50.0000	48.12	
92	Naphthalene	128	11.540	11.540	(1.194)	843439	50.0000	51.77	
93	1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	338333	50.0000	50.80	
M 94	1,2-Dichloroethylene (total)	96				414763	100.000	(a)	
141	Cyclohexane	56	4.121	4.121	(0.987)	245896	50.0000	43.01	
138	Freon TF	101	1.917	1.917	(0.459)	153969	50.0000	49.36	
147	Methylcyclohexane	55	5.377	5.377	(1.083)	497375	50.0000	52.66	
146	Methyl Acetate	43	2.232	2.232	(0.534)	126882	50.0000	47.80	
148	Tert-Butyl alcohol	59	2.427	2.427	(0.581)	412926	1000.00	896.64	
149	Isopropyl Alcohol	45	2.093	2.093	(0.501)	231739	1000.00	911.65	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



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Client ID: CCV
Sample Info: CCV;CCV;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 26-JUN-2023 13:15
InstruID : voa6.i
LabSampID : CCV

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062604.D Page 1
Report Date: 06-Jul-2023 12:04

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062604.D
Lab Smp Id: CCB Client Smp ID: CCB
Inj Date : 26-JUN-2023 13:36
Operator : PC Inst ID: voa6.i
Smp Info : CCB;CCB;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\8260W.m
Meth Date : 06-Jul-2023 12:04 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.177	(1.000)	484136	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.095	(0.981)	205084	47.4146	47.41
$ 35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	215467	46.1011	46.10
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	685345	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	620836	50.0000	
$ 48 Toluene-d8	98	6.386	6.385	(0.833)	811991	51.7320	51.73
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	289206	47.6887	47.68
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	332353	50.0000	

01201504

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062604.D

Date : 26-JUN-2023 13:36

Client ID: CCB

Instrument: voa6.i

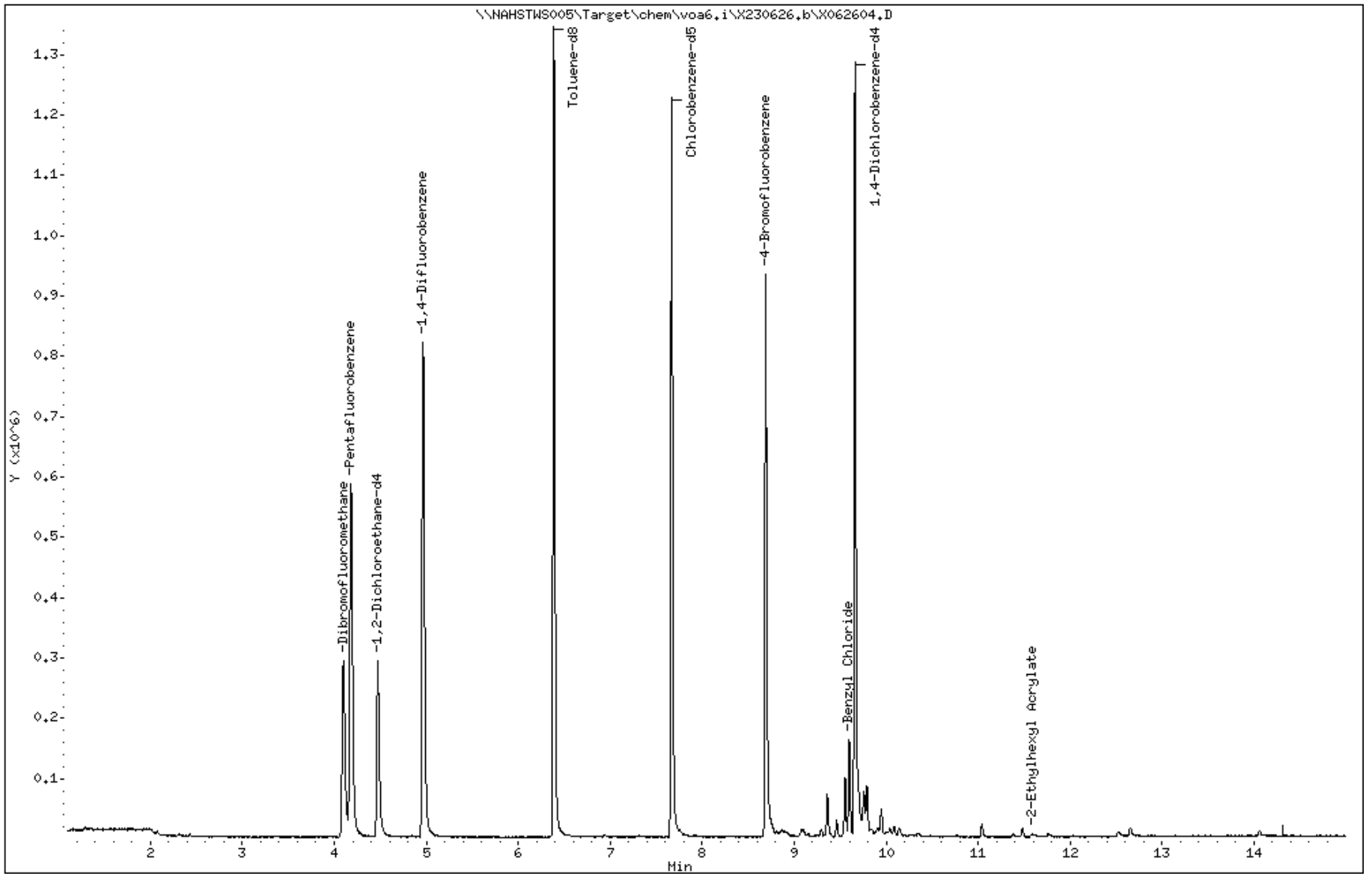
Sample Info: CCB;CCB;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Inj Date : 26-JUN-2023 13:36
InstruID : voa6.i
LabSampID : CCB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062605.D Page 1
Report Date: 06-Jul-2023 12:04

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062605.D
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Inj Date : 26-JUN-2023 13:57
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Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\8260W.m
Meth Date : 06-Jul-2023 12:04 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.177	(1.000)	460514	50.0000	
135 1,4-Dioxane	88	5.598	5.594	(1.339)	19790	354.603	354.60(a)
140 1,3-Butadiene	54	1.171	1.167	(0.280)	71755	18.8023	18.80
25 Methacrylonitrile	41	3.829	3.818	(0.916)	69778	18.3638	18.36
12 Isobutyl Alcohol	43	4.676	4.672	(1.118)	226555	377.301	377.30
13 Acetonitrile	39	2.202	2.202	(0.527)	82699	185.146	185.14
14 Allyl Chloride	41	2.202	2.202	(0.527)	180458	17.8687	17.86
4 Propionitrile	54	3.653	3.653	(0.874)	108254	194.373	194.37(a)
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	29978	19.0835	19.08
130 Ethyl Acetate	43	3.660	3.656	(0.875)	84893	18.0846	18.08
40 Methyl Methacrylate	41	5.609	5.602	(1.342)	66045	18.5258	18.52
49 Ethyl Methacrylate	69	6.708	6.708	(1.351)	81733	16.5803	16.58
131 Methyl Acrylate	55	3.694	3.690	(0.883)	73651	19.7468	19.74
139 Diethyl ether	59	1.763	1.760	(0.422)	58017	20.1092	20.10
156 Diisopropyl ether	45	3.000	3.000	(0.718)	259092	19.0764	19.07
2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	71044	18.1275	18.12
3 Chloromethane	50	1.085	1.085	(0.260)	97059	20.5556	20.55
5 Vinyl Chloride	62	1.149	1.149	(0.275)	90466	18.7053	18.70
6 Bromomethane	94	1.347	1.343	(0.322)	58099	20.9279	20.92
7 Chloroethane	64	1.407	1.407	(0.337)	59465	20.1146	20.11

8	Trichlorofluoromethane	101	1.565	1.565 (0.374)	117524	20.4487	20.44
9	Acrolein	56	1.452	1.448 (0.347)	10482	36.6817	36.68

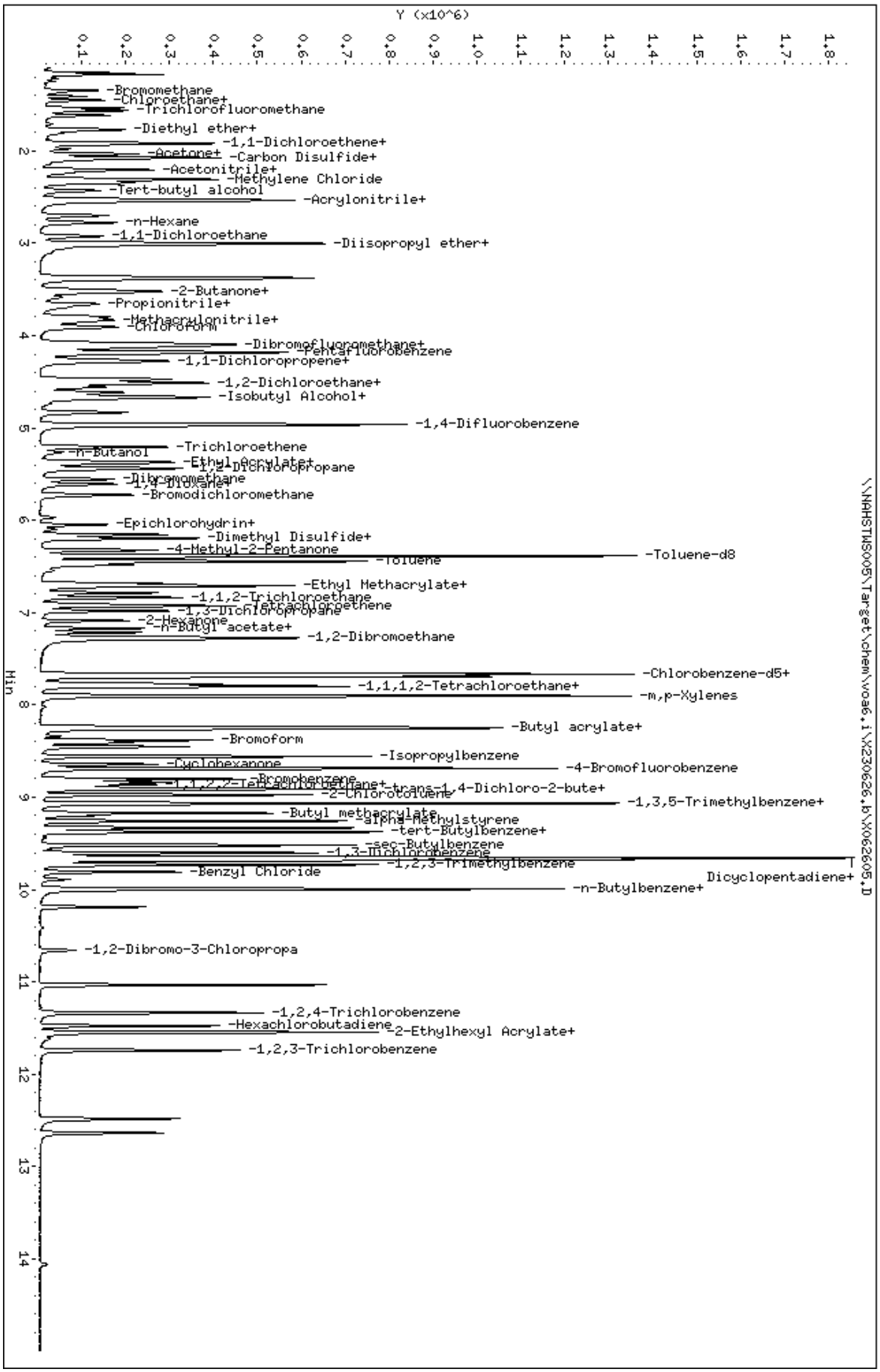
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	10 Acetone	43	1.977	1.973	(0.473)	49077	40.7093	40.70
	11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	70419	19.5317	19.53
	15 Iodomethane	142	2.033	2.029	(0.486)	225021	39.3503	39.35
	16 Acrylonitrile	53	2.539	2.536	(0.607)	49317	33.7380	33.73
	17 Methylene Chloride	84	2.311	2.307	(0.553)	92301	18.1243	18.12
	18 Methyl tert-butyl ether	73	2.536	2.536	(0.606)	242771	19.2927	19.29
	19 Carbon Disulfide	76	2.074	2.071	(0.496)	476365	37.1068	37.10
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	83039	19.2480	19.24
	21 Vinyl Acetate	43	3.000	2.997	(0.718)	449389	39.0276	39.02
	22 1,1-Dichloroethane	63	2.922	2.922	(0.699)	148082	19.0537	19.05
	24 2-Butanone	43	3.581	3.578	(0.857)	54658	36.0653	36.06
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	127668	20.8138	20.81
	27 cis-1,2-Dichloroethene	96	3.529	3.525	(0.844)	96030	19.3025	19.30
	28 Chloroform	83	3.908	3.908	(0.935)	157819	18.8668	18.86
	29 Bromochloromethane	128	3.799	3.791	(0.909)	51149	19.2938	19.29
$	30 Dibromofluoromethane	113	4.099	4.095	(0.980)	207425	50.4377	50.43
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	131136	19.3963	19.39
	32 1,1-Dichloropropene	75	4.282	4.282	(0.863)	115919	20.1147	20.11
	33 1,2-Dichloroethane	62	4.556	4.552	(0.918)	118142	20.4590	20.45
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	113006	20.3895	20.38
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	223904	50.4431	50.44
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	687751	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	351441	19.8658	19.86
	38 Trichloroethene	130	5.208	5.205	(1.049)	100360	20.5753	20.57
	39 Bromodichloromethane	83	5.726	5.722	(1.153)	122642	19.5981	19.59
	41 2-Chloroethylvinyl ether	63	6.052	6.048	(1.219)	62654	36.9995	36.99
	42 1,2-Dichloropropane	63	5.437	5.433	(1.095)	93430	20.1206	20.12
	44 Dibromomethane	93	5.557	5.553	(1.119)	59383	20.3718	20.37
	45 4-Methyl-2-Pentanone	43	6.325	6.322	(0.825)	158011	37.9000	37.89
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	154320	20.0004	20.00
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	645405	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	802427	49.1766	49.17
	50 Toluene	91	6.445	6.445	(0.841)	386110	20.3780	20.37
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	130861	20.2707	20.27
	52 2-Hexanone	43	7.086	7.086	(0.924)	109118	39.1824	39.18
	53 1,1,2-Trichloroethane	83	6.839	6.835	(0.892)	73087	19.7998	19.79
	54 1,3-Dichloropropane	76	6.981	6.978	(0.911)	147514	19.7646	19.76
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	105613	20.1882	20.18
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	81253	20.8538	20.85
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	95268	20.1918	20.19
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	85755	20.5039	20.50
	59 Chlorobenzene	112	7.694	7.690	(1.003)	264361	20.3909	20.39
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	96340	19.9284	19.92
	61 Ethylbenzene	106	7.799	7.799	(1.017)	135197	20.2403	20.24
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	347421	42.1768	42.17
	63 o-Xylene	106	8.241	8.237	(1.075)	168922	20.5514	20.55
	64 Styrene	104	8.260	8.256	(1.077)	281221	20.7714	20.77
	66 Bromoform	173	8.410	8.406	(1.097)	73792	20.2333	20.23
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	410625	20.2114	20.21
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	117379	18.2097	18.20
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	317589	50.4056	50.40
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	366585	50.0000	

71 1,2,3-Trichloropropane	75	8.863	8.859 (0.917)	87582	18.9481	18.94
73 n-Propylbenzene	91	8.912	8.908 (0.922)	486160	20.1533	20.15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	74 Bromobenzene	156	8.803	8.803	(0.911)	122502	20.5029	20.50
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	355371	20.0765	20.07
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	299648	19.5606	19.56
	77 4-Chlorotoluene	91	9.069	9.069	(0.939)	351672	20.5809	20.58
	78 tert-Butylbenzene	119	9.332	9.332	(0.966)	297758	20.1913	20.19
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	362470	20.2965	20.29
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	413245	19.8691	19.86
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	369774	20.3070	20.30
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	214103	20.1251	20.12
	84 1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	224069	19.6773	19.67
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	319027	20.5706	20.57
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	215030	20.3707	20.37
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	20689	19.8257	19.82
	90 1,2,4-Trichlorobenzene	180	11.337	11.334	(1.173)	152177	20.7241	20.72
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	68061	20.6491	20.64
	92 Naphthalene	128	11.544	11.540	(1.195)	328350	19.8635	19.86
	93 1,2,3-Trichlorobenzene	180	11.742	11.738	(1.215)	138281	20.4656	20.46
M	94 1,2-Dichloroethylene (total)	96				179069	38.5506	38.55
M	95 Xylenes (total)	106				516343	62.7282	62.72
	141 Cyclohexane	56	4.125	4.121	(0.987)	117897	20.0837	20.08
	138 Freon TF	101	1.921	1.917	(0.459)	72999	23.0416	23.04
	147 Methylcyclohexane	55	5.385	5.377	(1.085)	192127	19.9880	19.98
	146 Methyl Acetate	43	2.239	2.232	(0.536)	47417	17.3960	17.39
	148 Tert-Butyl alcohol	59	2.431	2.427	(0.581)	156127	330.150	330.15
	149 Isopropyl Alcohol	45	2.097	2.093	(0.502)	84497	323.708	323.70

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



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Sample Info: VLCSW-230626;VLCSW-230626;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062605.D
Inj Date : 26-JUN-2023 13:57
InstruID : voa6.i
LabSampID : VLCSW-230626

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062607.D Page 1
Report Date: 06-Jul-2023 12:04

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Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062607.D
Lab Smp Id: VBLKW-230626 Client Smp ID: VBLKW-230626
Inj Date : 26-JUN-2023 14:39
Operator : PC Inst ID: voa6.i
Smp Info : VBLKW-230626;VBLKW-230626;3;;BLANK
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\8260W.m
Meth Date : 06-Jul-2023 12:04 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.177	(1.000)	478836	50.0000	
$ 30 Dibromofluoromethane	113	4.102	4.095	(0.981)	202195	47.2630	47.26
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	213543	46.1969	46.19
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	682036	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	618357	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	807514	51.6530	51.65
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	294163	48.7119	48.71
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	329847	50.0000	

01201514

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062607.D

Date : 26-JUN-2023 14:39

Client ID: VBLKW-230626

Instrument: voa6.i

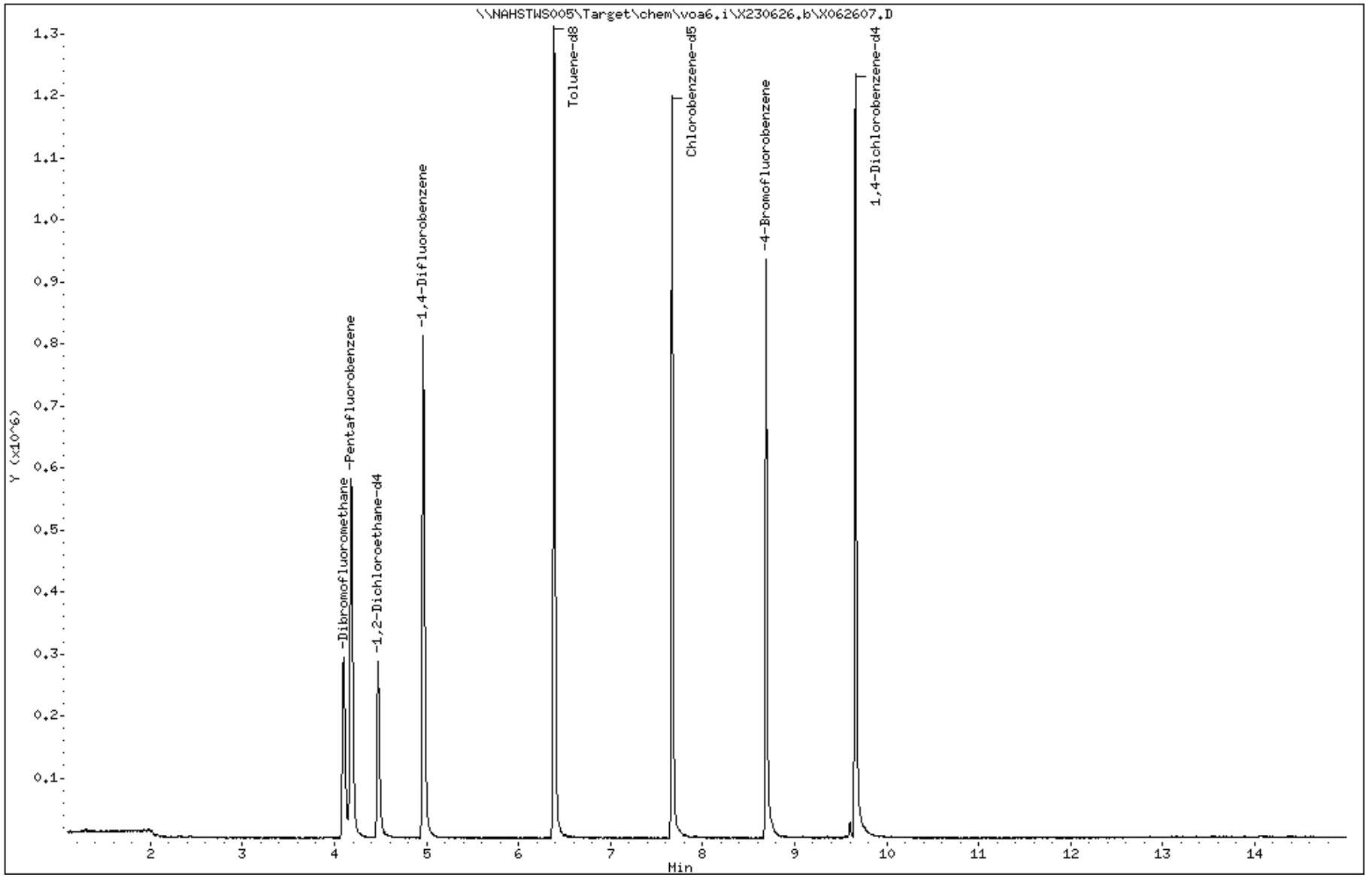
Sample Info: VBLKW-230626;VBLKW-230626;3;;BLANK

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Inj Date : 26-JUN-2023 14:39
InstruID : voa6.i
LabSampID : VBLKW-230626

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062609.D Page 1
Report Date: 06-Jul-2023 12:04

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062609.D
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Operator : PC Inst ID: voa6.i
Smp Info : HS23061712-03;HS230611712-03;;;
Misc Info : V6;WATER;0;1;
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Meth Date : 06-Jul-2023 12:04 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.177	(1.000)	487363	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.095	(0.980)	205826	47.2700	47.27
$ 35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	220705	46.9242	46.92
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	693362	50.0000	
38 Trichloroethene	130	5.212	5.205	(1.050)	6472	1.31612	1.31(a)
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	617751	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	816118	52.2546	52.25
$ 69 4-Bromofluorobenzene	95	8.691	8.687	(1.133)	292361	48.4583	48.45
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	324964	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01201517

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062609.D

Date : 26-JUN-2023 15:21

Client ID: HS230611712-03

Instrument: voa6.i

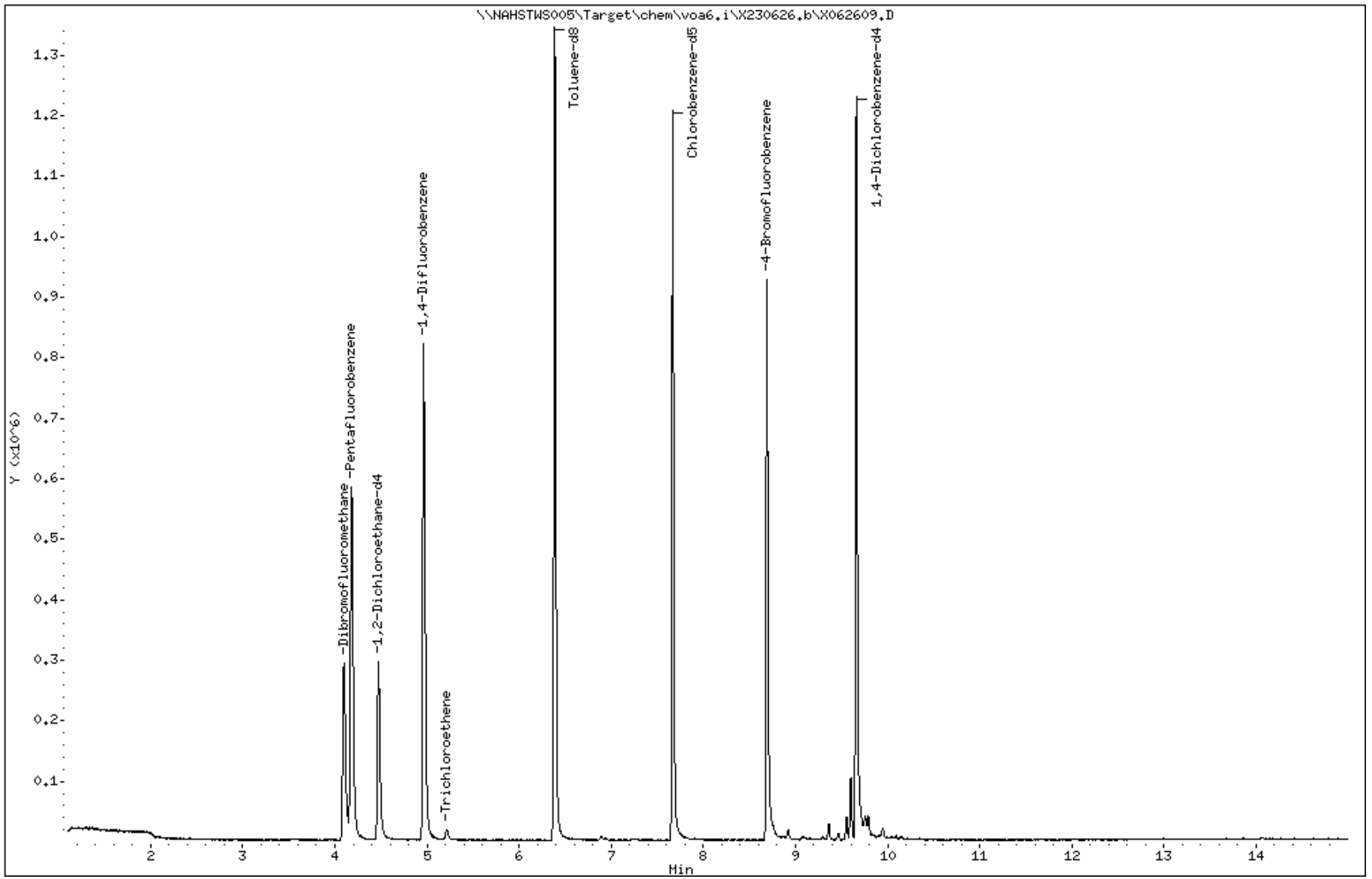
Sample Info: HS23061712-03;HS230611712-03;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062609.D

Date : 26-JUN-2023 15:21

Client ID: HS230611712-03

Instrument: voa6.i

Sample Info: HS23061712-03;HS230611712-03;;;

Purge Volume: 5.0

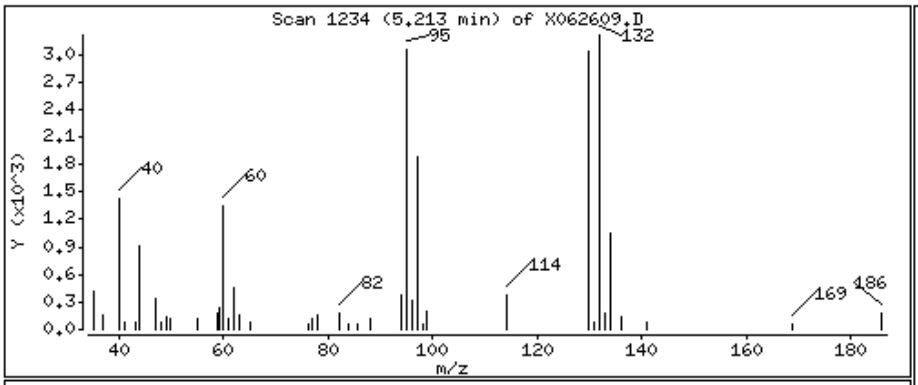
Operator: PC

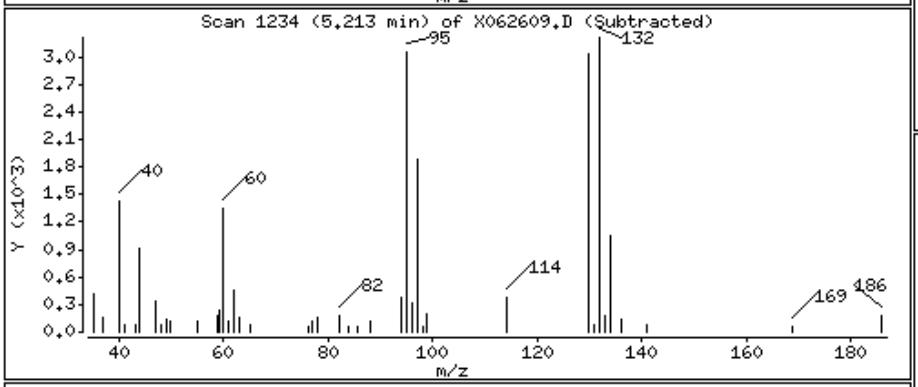
Column phase: DB624

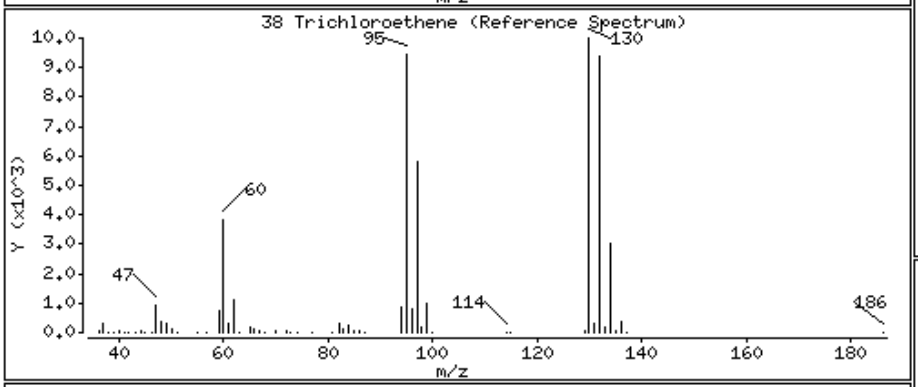
Column diameter: 0.18

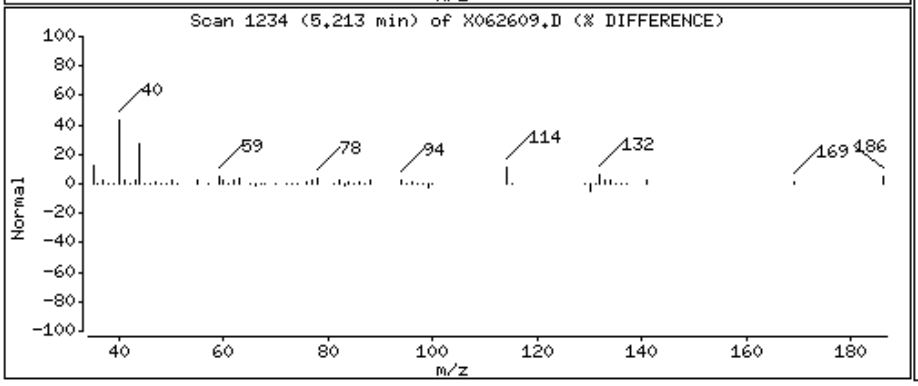
38 Trichloroethene

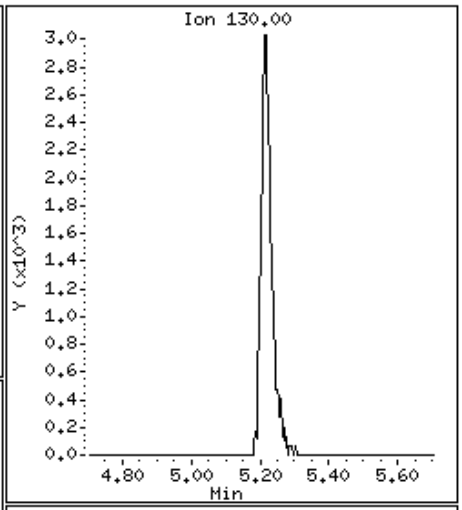
Concentration: 1.31 ug/l

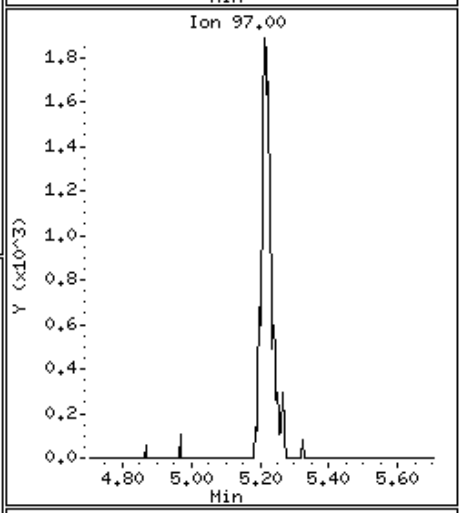


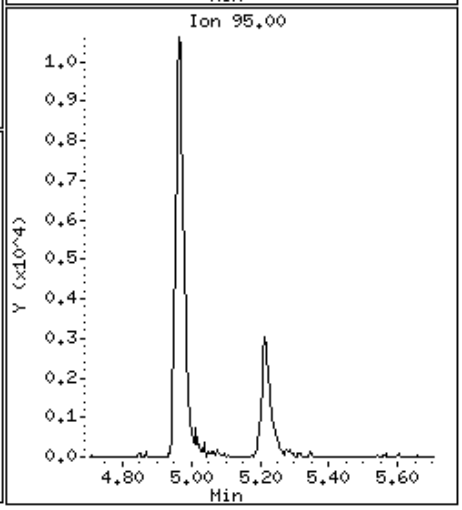












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Inj Date : 26-JUN-2023 15:21
InstruID : voa6.i
LabSampID : HS23061712-03

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062610.D Page 1
Report Date: 06-Jul-2023 12:04

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062610.D
Lab Smp Id: HS23061712-04 Client Smp ID: HS230611712-04
Inj Date : 26-JUN-2023 15:42
Operator : PC Inst ID: voa6.i
Smp Info : HS23061712-04;HS230611712-04;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\8260W.m
Meth Date : 06-Jul-2023 12:04 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.177	(1.000)	473750	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.095	(0.980)	199543	47.1430	47.14
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	215987	47.2464	47.24
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	669752	50.0000	
38 Trichloroethene	130	5.209	5.205	(1.049)	6537	1.37620	1.37(a)
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	593036	50.0000	
$ 48 Toluene-d8	98	6.386	6.385	(0.833)	773251	51.5733	51.57
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	272407	47.0168	47.01
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	300544	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01201521

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062610.D

Date : 26-JUN-2023 15:42

Client ID: HS230611712-04

Instrument: voa6.i

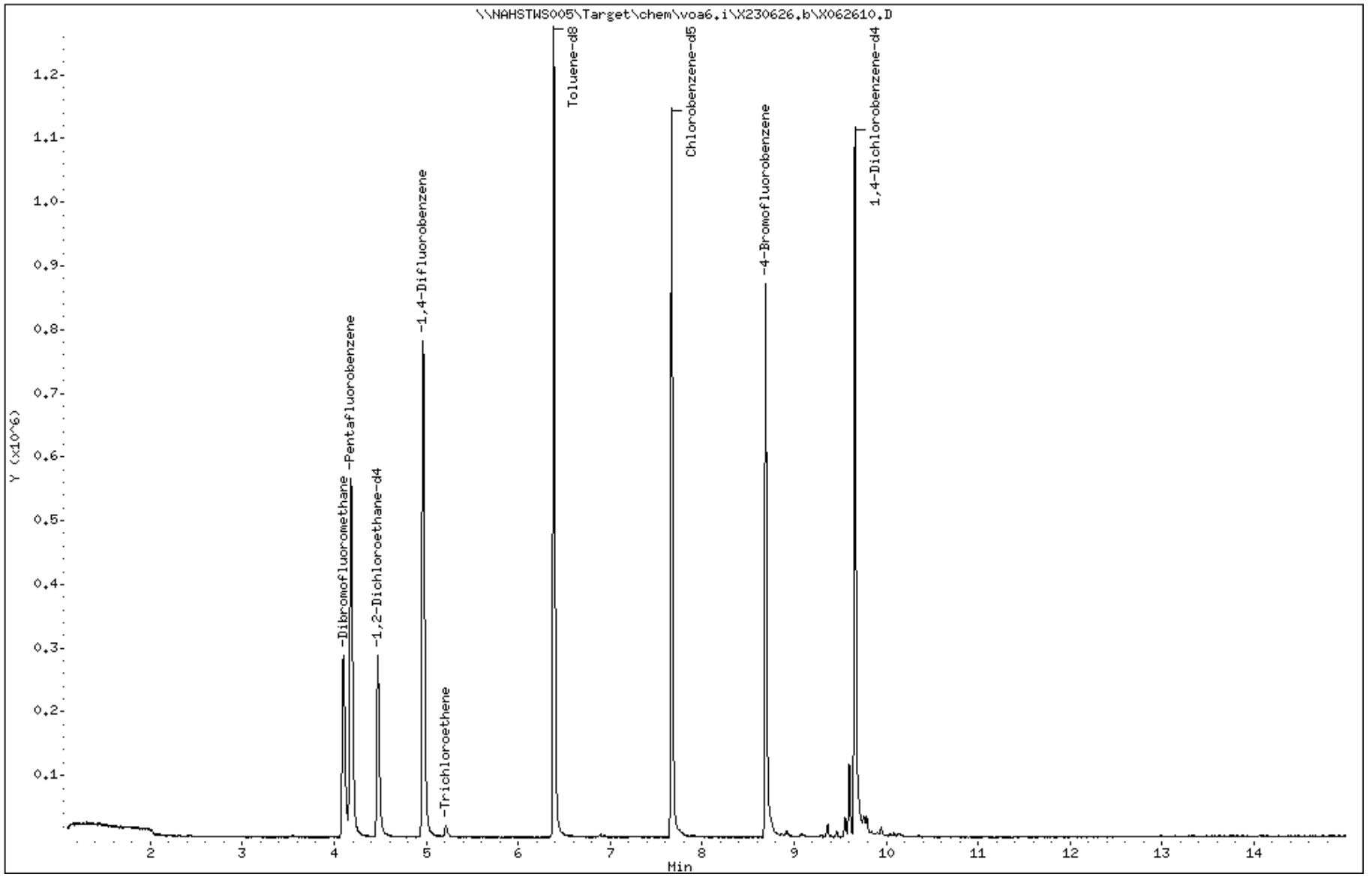
Sample Info: HS23061712-04;HS230611712-04;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Date : 26-JUN-2023 15:42

Client ID: HS230611712-04

Instrument: voa6.i

Sample Info: HS23061712-04;HS230611712-04;;;

Purge Volume: 5.0

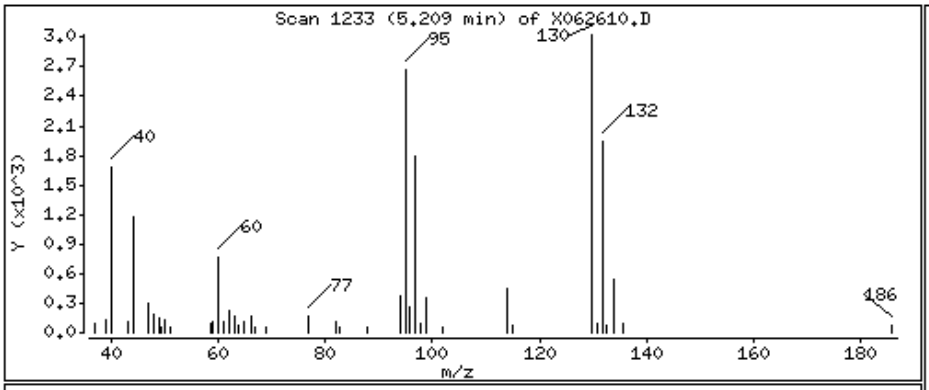
Operator: PC

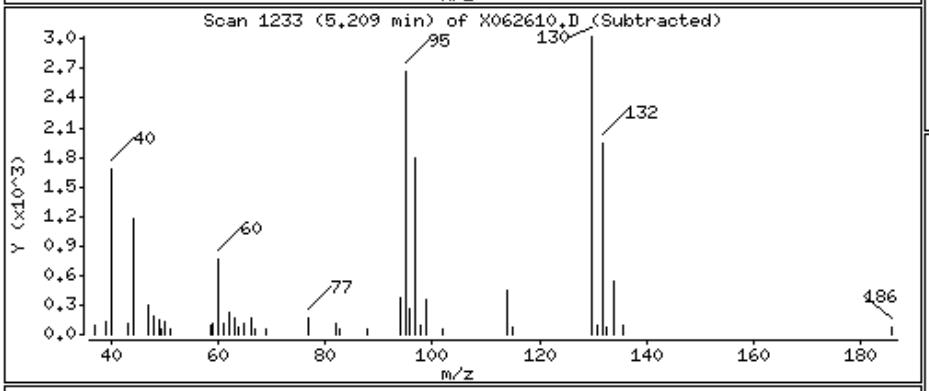
Column phase: DB624

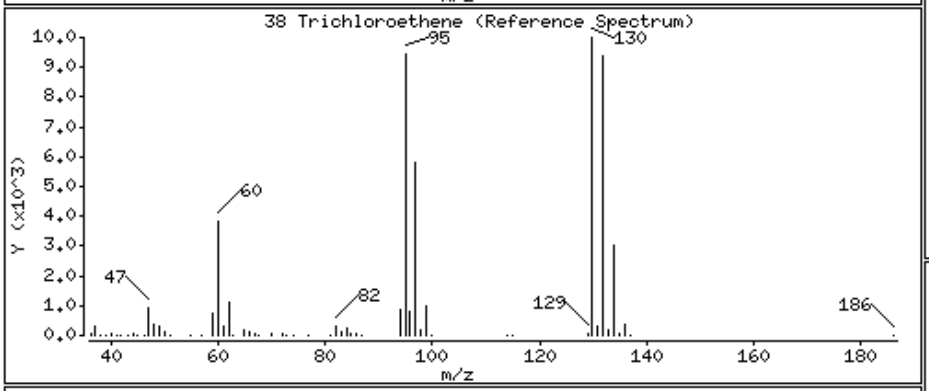
Column diameter: 0.18

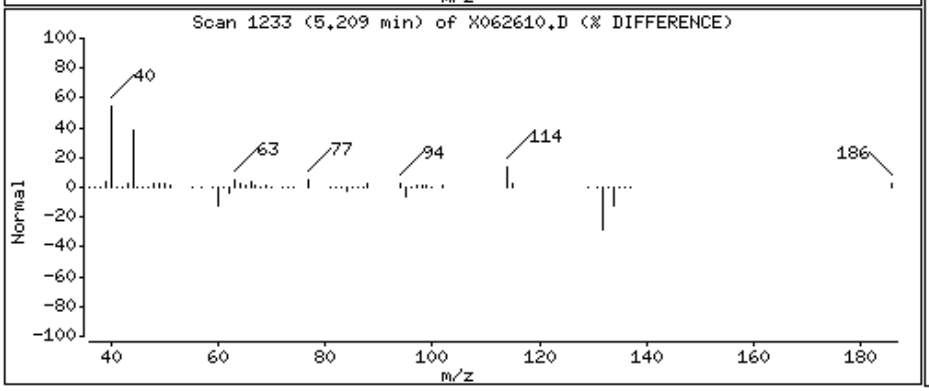
38 Trichloroethene

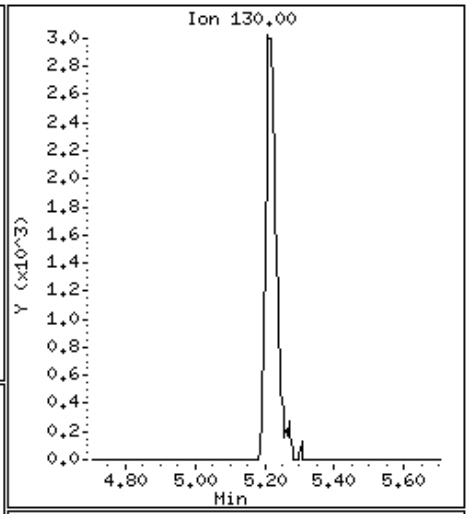
Concentration: 1.37 ug/l

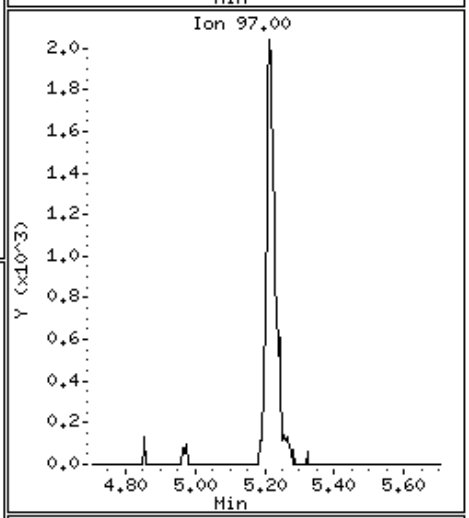


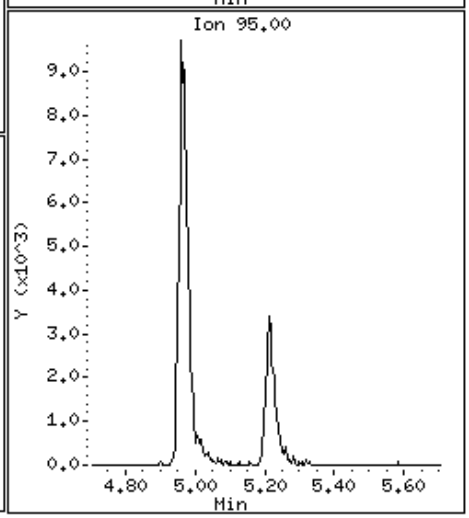












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062610.D
Inj Date : 26-JUN-2023 15:42
InstruID : voa6.i
LabSampID : HS23061712-04

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062611.D Page 1
Report Date: 06-Jul-2023 12:04

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062611.D
Lab Smp Id: HS23061707-01MS Client Smp ID: HS230611707-01MS
Inj Date : 26-JUN-2023 16:04
Operator : PC Inst ID: voa6.i
Smp Info : HS23061707-01MS;HS230611707-01MS;3;;MS
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\8260W.m
Meth Date : 06-Jul-2023 12:04 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 10 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.177	(1.000)	478875	50.0000	
135 1,4-Dioxane	88	5.598	5.594	(1.339)	21415	369.008	369.00(a)
140 1,3-Butadiene	54	1.171	1.167	(0.280)	77476	19.5230	19.52
25 Methacrylonitrile	41	3.829	3.818	(0.916)	73828	18.6847	18.68
12 Isobutyl Alcohol	43	4.676	4.672	(1.118)	229783	368.004	368.00
13 Acetonitrile	39	2.202	2.202	(0.527)	97586	210.098	210.09
14 Allyl Chloride	41	2.202	2.202	(0.527)	203741	19.4006	19.40
4 Propionitrile	54	3.656	3.653	(0.875)	109394	188.889	188.88(a)
72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	27934	18.4547	18.45
130 Ethyl Acetate	43	3.660	3.656	(0.875)	82938	16.9907	16.99
40 Methyl Methacrylate	41	5.609	5.602	(1.342)	72298	19.5023	19.50
49 Ethyl Methacrylate	69	6.708	6.708	(1.351)	80925	16.5993	16.59
131 Methyl Acrylate	55	3.698	3.690	(0.884)	74522	19.2143	19.21
139 Diethyl ether	59	1.760	1.760	(0.421)	58591	19.5295	19.52
156 Diisopropyl ether	45	3.000	3.000	(0.718)	272329	19.2822	19.28
2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	74182	18.2011	18.20
3 Chloromethane	50	1.085	1.085	(0.260)	95439	19.4934	19.49
5 Vinyl Chloride	62	1.149	1.149	(0.275)	100416	19.9665	19.96
6 Bromomethane	94	1.347	1.343	(0.322)	60106	20.8207	20.82
7 Chloroethane	64	1.407	1.407	(0.337)	68087	22.1480	22.14

8	Trichlorofluoromethane	101	1.565	1.565 (0.374)	135308	22.6403	22.64
9	Acrolein	56	1.452	1.448 (0.347)	13097	44.0756	44.07

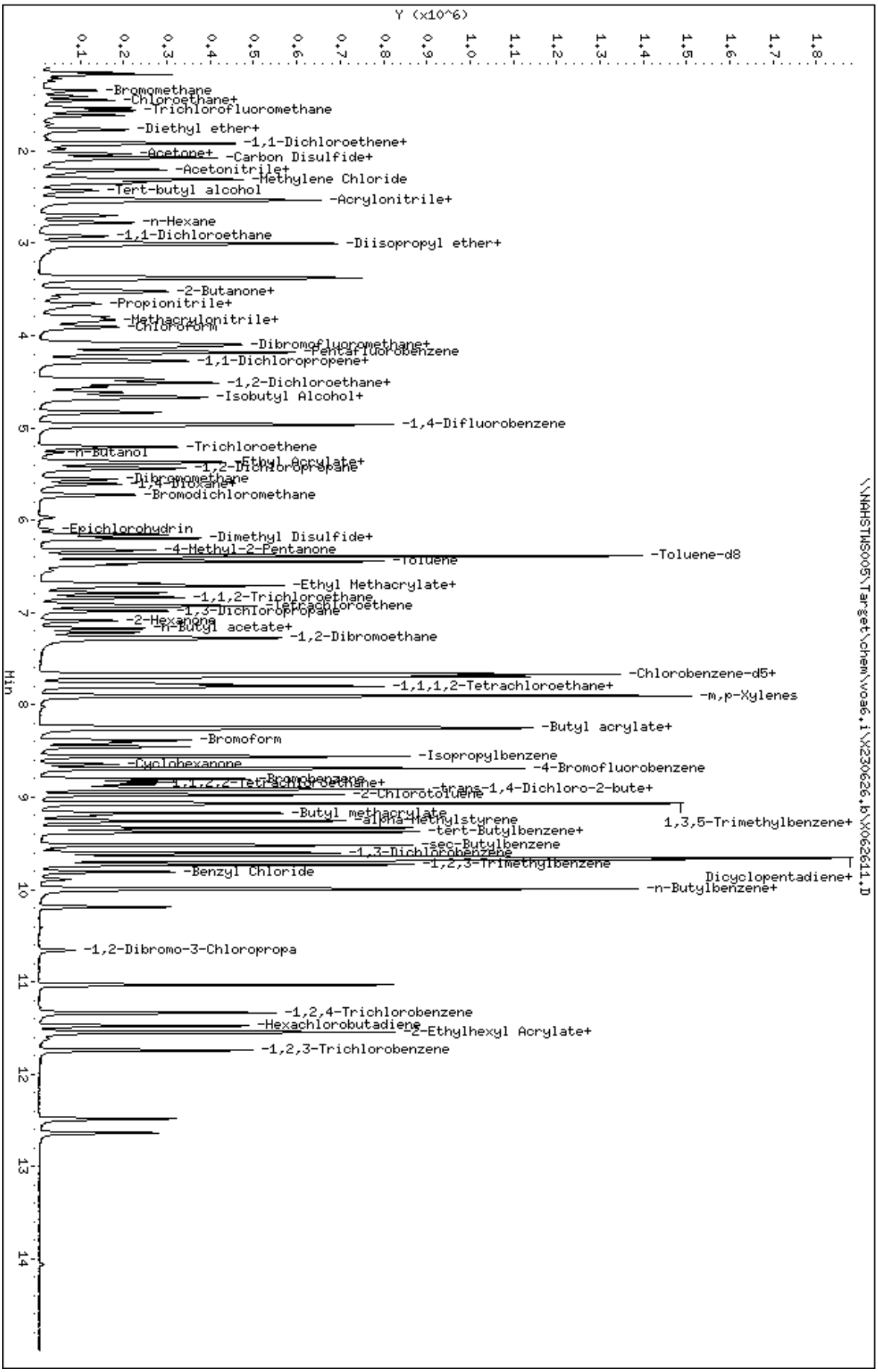
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	10 Acetone	43	1.977	1.973	(0.473)	37872	30.1401	30.14
	11 1,1-Dichloroethene	96	1.921	1.917	(0.459)	80581	21.4933	21.49
	15 Iodomethane	142	2.033	2.029	(0.486)	212342	35.9383	35.93
	16 Acrylonitrile	53	2.543	2.536	(0.608)	55041	36.2101	36.21
	17 Methylene Chloride	84	2.307	2.307	(0.552)	97107	18.3369	18.33
	18 Methyl tert-butyl ether	73	2.536	2.536	(0.606)	252108	19.2665	19.26
	19 Carbon Disulfide	76	2.075	2.071	(0.496)	485810	36.3915	36.39
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	92282	20.5704	20.57
	21 Vinyl Acetate	43	3.000	2.997	(0.718)	452176	37.7640	37.76
	22 1,1-Dichloroethane	63	2.922	2.922	(0.699)	158087	19.5612	19.56
	24 2-Butanone	43	3.585	3.578	(0.857)	45082	28.6062	28.60
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	142783	22.3859	22.38
	27 cis-1,2-Dichloroethene	96	3.529	3.525	(0.844)	102353	19.7847	19.78
	28 Chloroform	83	3.908	3.908	(0.935)	164766	18.9421	18.94
	29 Bromochloromethane	128	3.795	3.791	(0.908)	52087	18.8943	18.89
$	30 Dibromofluoromethane	113	4.099	4.095	(0.980)	201935	47.1979	47.19
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	146297	20.8091	20.80
	32 1,1-Dichloropropene	75	4.282	4.282	(0.863)	131917	23.1458	23.14
	33 1,2-Dichloroethane	62	4.560	4.552	(0.918)	118522	20.7534	20.75
	34 Carbon Tetrachloride	117	4.267	4.264	(0.860)	130319	23.7753	23.77
$	35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	206464	44.6333	44.63
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	680173	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	380572	21.7521	21.75
	38 Trichloroethene	130	5.208	5.205	(1.049)	108992	22.5940	22.59
	39 Bromodichloromethane	83	5.726	5.722	(1.153)	128787	20.8093	20.80
	42 1,2-Dichloropropane	63	5.437	5.433	(1.095)	95749	20.8497	20.84
	44 Dibromomethane	93	5.549	5.553	(1.118)	60537	20.9991	20.99
	45 4-Methyl-2-Pentanone	43	6.325	6.322	(0.825)	152389	37.9335	37.93
	46 cis-1,3-Dichloropropene	75	6.157	6.153	(1.240)	160132	20.9848	20.98
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	621892	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	807980	51.3891	51.38
	50 Toluene	91	6.445	6.445	(0.841)	424641	23.2590	23.25
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	132869	20.8110	20.81
	52 2-Hexanone	43	7.086	7.086	(0.924)	99691	37.1508	37.15
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	75039	21.0972	21.09
	54 1,3-Dichloropropane	76	6.981	6.978	(0.911)	152862	21.2555	21.25
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	108204	21.4655	21.46
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	95296	25.3827	25.38
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	93338	20.5307	20.53
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	96327	23.2882	23.28
	59 Chlorobenzene	112	7.694	7.690	(1.003)	284402	22.7661	22.76
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	102767	22.0616	22.06
	61 Ethylbenzene	106	7.799	7.799	(1.017)	151811	23.5869	23.58
	62 m,p-Xylenes	106	7.900	7.904	(1.030)	388085	48.8947	48.89
	63 o-Xylene	106	8.241	8.237	(1.075)	183228	23.1347	23.13
	64 Styrene	104	8.260	8.256	(1.077)	302672	23.2010	23.20
	66 Bromoform	173	8.410	8.406	(1.097)	74295	21.1414	21.14
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	475462	24.2876	24.28
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	122703	19.6587	19.65
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	297384	48.9682	48.96
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	354966	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.859	(0.917)	89673	20.0356	20.03(M)

73 n-Propylbenzene	91	8.912	8.908 (0.922)	566830	24.2665	24.26
74 Bromobenzene	156	8.803	8.803 (0.911)	129851	22.4443	22.44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	403726	23.5548	23.55
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	337631	22.7616	22.76
77	4-Chlorotoluene	91	9.069	9.069	(0.939)	383837	23.1986	23.19
78	tert-Butylbenzene	119	9.332	9.332	(0.966)	349602	24.4828	24.48
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	399521	23.1034	23.10
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	498892	24.7722	24.77
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	442206	25.0797	25.07
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	235818	22.8918	22.89
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	247735	22.4677	22.46
87	n-Butylbenzene	91	9.992	9.992	(1.034)	381201	25.3840	25.38
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	230423	22.5435	22.54
89	1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	21415	21.1751	21.17
90	1,2,4-Trichlorobenzene	180	11.337	11.334	(1.173)	166424	23.4062	23.40
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	81519	25.5417	25.54
92	Naphthalene	128	11.544	11.540	(1.195)	333227	20.8184	20.81
93	1,2,3-Trichlorobenzene	180	11.742	11.738	(1.215)	146259	22.3548	22.35
M 94	1,2-Dichloroethylene (total)	96				194635	40.3550	40.35
M 95	Xylenes (total)	106				571313	72.0294	72.02
141	Cyclohexane	56	4.121	4.121	(0.986)	145877	23.8973	23.89
138	Freon TF	101	1.917	1.917	(0.459)	86399	26.1909	26.19
147	Methylcyclohexane	55	5.381	5.377	(1.084)	233622	24.5758	24.57
146	Methyl Acetate	43	2.239	2.232	(0.536)	49252	17.3764	17.37
148	Tert-Butyl alcohol	59	2.431	2.427	(0.581)	155393	315.999	315.99
149	Isopropyl Alcohol	45	2.097	2.093	(0.502)	84722	312.126	312.12

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Sample Info: HS230611707-01MS;HS230611707-01MS;3;;MS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 26-JUN-2023 16:04
InstruID : voa6.i
LabSampID : HS23061707-01MS

1,2,3-Trichloropropane (96-18-4)

Reason Code:

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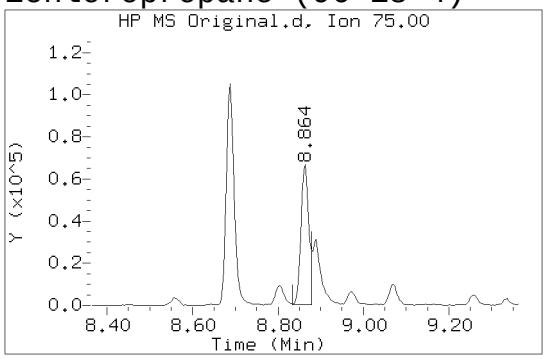
HEIGHT
66779
06-Jul-2023
12:04
linh
pham



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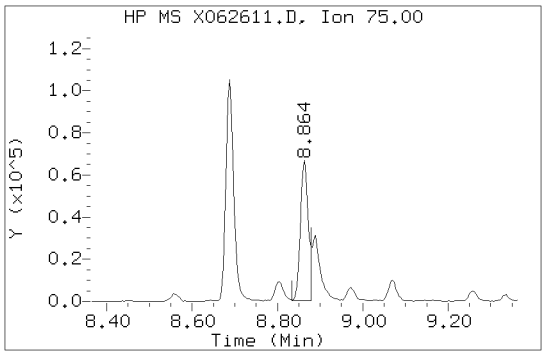

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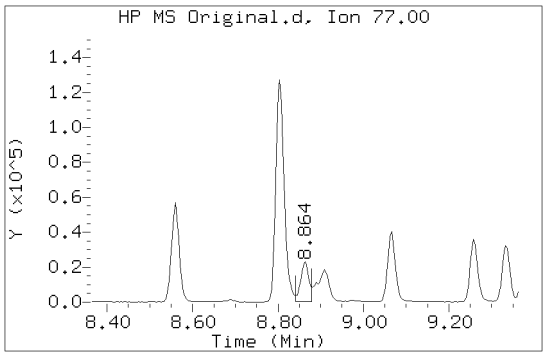

AFTER

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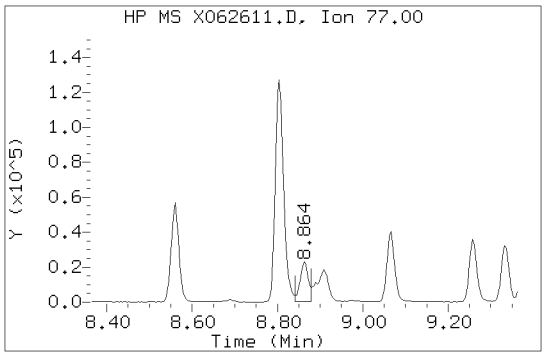

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Report Date: 06-Jul-2023 12:04

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062612.D
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Inj Date : 26-JUN-2023 16:25
Operator : PC Inst ID: voa6.i
Smp Info : HS23061707-01MSD;HS230611707-01MSD;3;;MSD
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\8260W.m
Meth Date : 06-Jul-2023 12:04 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 10 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.177	(1.000)	486549	50.0000	
135 1,4-Dioxane	88	5.598	5.594	(1.339)	21841	370.413	370.41(a)
140 1,3-Butadiene	54	1.171	1.167	(0.280)	73819	18.3081	18.30
25 Methacrylonitrile	41	3.825	3.818	(0.915)	74367	18.5242	18.52
12 Isobutyl Alcohol	43	4.676	4.672	(1.118)	234158	369.096	369.09
13 Acetonitrile	39	2.202	2.202	(0.527)	93760	198.677	198.67
14 Allyl Chloride	41	2.202	2.202	(0.527)	200613	18.8015	18.80
4 Propionitrile	54	3.657	3.653	(0.875)	109142	185.481	185.48(a)
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	27956	18.4852	18.48
130 Ethyl Acetate	43	3.660	3.656	(0.875)	84500	17.0376	17.03
40 Methyl Methacrylate	41	5.610	5.602	(1.342)	74853	19.8730	19.87
49 Ethyl Methacrylate	69	6.708	6.708	(1.351)	84171	17.0367	17.03
131 Methyl Acrylate	55	3.698	3.690	(0.884)	81025	20.5615	20.56
139 Diethyl ether	59	1.760	1.760	(0.421)	58630	19.2343	19.23
156 Diisopropyl ether	45	3.004	3.000	(0.719)	273196	19.0385	19.03
2 Dichlorodifluoromethane	85	0.980	0.976	(0.234)	67872	16.4232	16.42
3 Chloromethane	50	1.085	1.085	(0.260)	92256	18.5960	18.59
5 Vinyl Chloride	62	1.149	1.149	(0.275)	95066	18.6046	18.60
6 Bromomethane	94	1.347	1.343	(0.322)	59148	20.1657	20.16
7 Chloroethane	64	1.407	1.407	(0.337)	60849	19.4814	19.48

8	Trichlorofluoromethane	101	1.565	1.565 (0.374)	127353	20.9732	20.97
9	Acrolein	56	1.452	1.448 (0.347)	11406	37.7794	37.77

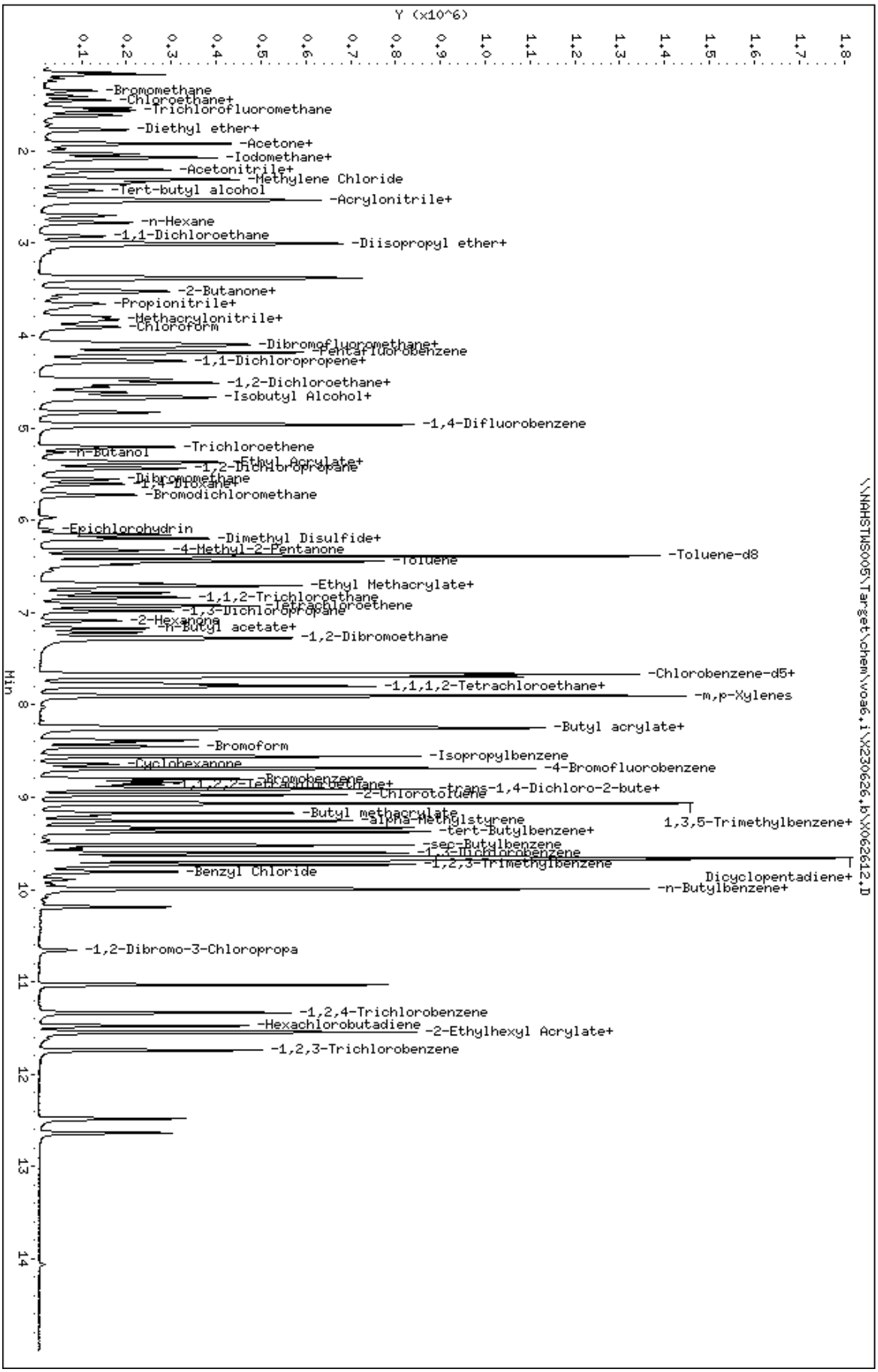
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	10 Acetone	43	1.977	1.973	(0.473)	36575	28.6353	28.63
	11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	75812	19.9023	19.90
	15 Iodomethane	142	2.030	2.029	(0.485)	224486	37.2944	37.29
	16 Acrylonitrile	53	2.539	2.536	(0.607)	58493	37.8742	37.87
	17 Methylene Chloride	84	2.307	2.307	(0.552)	96004	17.8427	17.84
	18 Methyl tert-butyl ether	73	2.539	2.536	(0.607)	249142	18.7395	18.73
	19 Carbon Disulfide	76	2.075	2.071	(0.496)	458533	33.8065	33.80
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	86712	19.0239	19.02
	21 Vinyl Acetate	43	3.001	2.997	(0.718)	446670	36.7158	36.71
	22 1,1-Dichloroethane	63	2.926	2.922	(0.700)	152167	18.5317	18.53
	24 2-Butanone	43	3.585	3.578	(0.857)	44415	27.7384	27.73
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	135240	20.8685	20.86
	27 cis-1,2-Dichloroethene	96	3.529	3.525	(0.844)	101091	19.2325	19.23
	28 Chloroform	83	3.908	3.908	(0.935)	162691	18.4085	18.40
	29 Bromochloromethane	128	3.795	3.791	(0.908)	52569	18.7684	18.76
$	30 Dibromofluoromethane	113	4.099	4.095	(0.980)	203441	46.7970	46.79
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	141046	19.7458	19.74
	32 1,1-Dichloropropene	75	4.283	4.282	(0.863)	125741	21.7704	21.77
	33 1,2-Dichloroethane	62	4.556	4.552	(0.918)	120663	20.8489	20.84
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	123105	22.1621	22.16
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	212285	45.1782	45.17
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	689290	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	363790	20.5179	20.51
	38 Trichloroethene	130	5.205	5.205	(1.048)	105390	21.5583	21.55
	39 Bromodichloromethane	83	5.726	5.722	(1.153)	124474	19.8464	19.84
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	95081	20.4304	20.43
	44 Dibromomethane	93	5.550	5.553	(1.118)	59914	20.5081	20.50
	45 4-Methyl-2-Pentanone	43	6.326	6.322	(0.825)	156543	39.0012	39.00
	46 cis-1,3-Dichloropropene	75	6.157	6.153	(1.240)	157545	20.3727	20.37
*	47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	621354	50.0000	
$	48 Toluene-d8	98	6.386	6.385	(0.833)	811427	51.6530	51.65
	50 Toluene	91	6.446	6.445	(0.841)	411066	22.5349	22.53
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	129433	20.0047	20.00
	52 2-Hexanone	43	7.087	7.086	(0.924)	104100	38.8275	38.82
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	74612	20.9954	20.99
	54 1,3-Dichloropropane	76	6.982	6.978	(0.911)	152356	21.2035	21.20
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	106684	21.1822	21.18
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	90556	24.1411	24.14
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	94304	20.7611	20.76
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	92795	22.1376	22.13
	59 Chlorobenzene	112	7.694	7.690	(1.003)	276670	22.1664	22.16
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.772	(1.014)	98885	21.2466	21.24
	61 Ethylbenzene	106	7.799	7.799	(1.017)	146867	22.8385	22.83
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	371933	46.9003	46.90
	63 o-Xylene	106	8.241	8.237	(1.075)	176797	22.3420	22.34
	64 Styrene	104	8.260	8.256	(1.077)	294653	22.6059	22.60
	66 Bromoform	173	8.410	8.406	(1.097)	73550	20.9475	20.94
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	459779	23.5068	23.50
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	123395	20.4440	20.44
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	298006	49.1147	49.11
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	343257	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.859	(0.917)	88423	20.4302	20.43

73 n-Propylbenzene	91	8.908	8.908 (0.922)	545008	24.1282	24.12
74 Bromobenzene	156	8.803	8.803 (0.911)	125849	22.4946	22.49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	392178	23.6616	23.66
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	325653	22.7029	22.70
77	4-Chlorotoluene	91	9.070	9.069	(0.939)	374968	23.4356	23.43
78	tert-Butylbenzene	119	9.332	9.332	(0.966)	336488	24.3683	24.36
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	387954	23.1998	23.19
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	482901	24.7961	24.79
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	426838	25.0339	25.03
83	1,3-Dichlorobenzene	146	9.606	9.602	(0.994)	230110	23.0997	23.09
84	1,4-Dichlorobenzene	146	9.681	9.680	(1.002)	239768	22.4870	22.48
87	n-Butylbenzene	91	9.992	9.992	(1.034)	374622	25.7969	25.79
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	224233	22.6862	22.68
89	1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	20405	20.8685	20.86
90	1,2,4-Trichlorobenzene	180	11.338	11.334	(1.173)	163737	23.8138	23.81
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	80100	25.9532	25.95
92	Naphthalene	128	11.544	11.540	(1.195)	341518	22.0642	22.06
93	1,2,3-Trichlorobenzene	180	11.742	11.738	(1.215)	148984	23.5481	23.54
M 94	1,2-Dichloroethylene (total)	96				187803	38.2564	38.25
M 95	Xylenes (total)	106				548730	69.2423	69.24
141	Cyclohexane	56	4.121	4.121	(0.986)	138682	22.3603	22.36
138	Freon TF	101	1.917	1.917	(0.459)	83144	24.8209	24.82
147	Methylcyclohexane	55	5.381	5.377	(1.084)	234633	24.3556	24.35
146	Methyl Acetate	43	2.236	2.232	(0.535)	48870	16.9697	16.96
148	Tert-Butyl alcohol	59	2.431	2.427	(0.581)	159454	319.143	319.14
149	Isopropyl Alcohol	45	2.097	2.093	(0.502)	87498	317.269	317.26

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



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Sample Info: HS230611707-01MSD;HS230611707-01MSD;3;;MSD
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 26-JUN-2023 16:25
InstruID : voa6.i
LabSampID : HS23061707-01MSD

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062615.D Page 1
Report Date: 06-Jul-2023 12:04

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062615.D
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Inj Date : 26-JUN-2023 17:28
Operator : PC Inst ID: voa6.i
Smp Info : HS23061712-09;HS230611712-09;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\8260W.m
Meth Date : 06-Jul-2023 12:04 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.177	(1.000)	472835	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.095	(0.980)	201561	47.7161	47.71
$ 35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	213765	46.8437	46.84
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	669065	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	602706	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	791100	51.9172	51.91
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	286087	48.6036	48.60
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	318952	50.0000	

01201539

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062615.D

Date : 26-JUN-2023 17:28

Client ID: HS230611712-09

Instrument: voa6.i

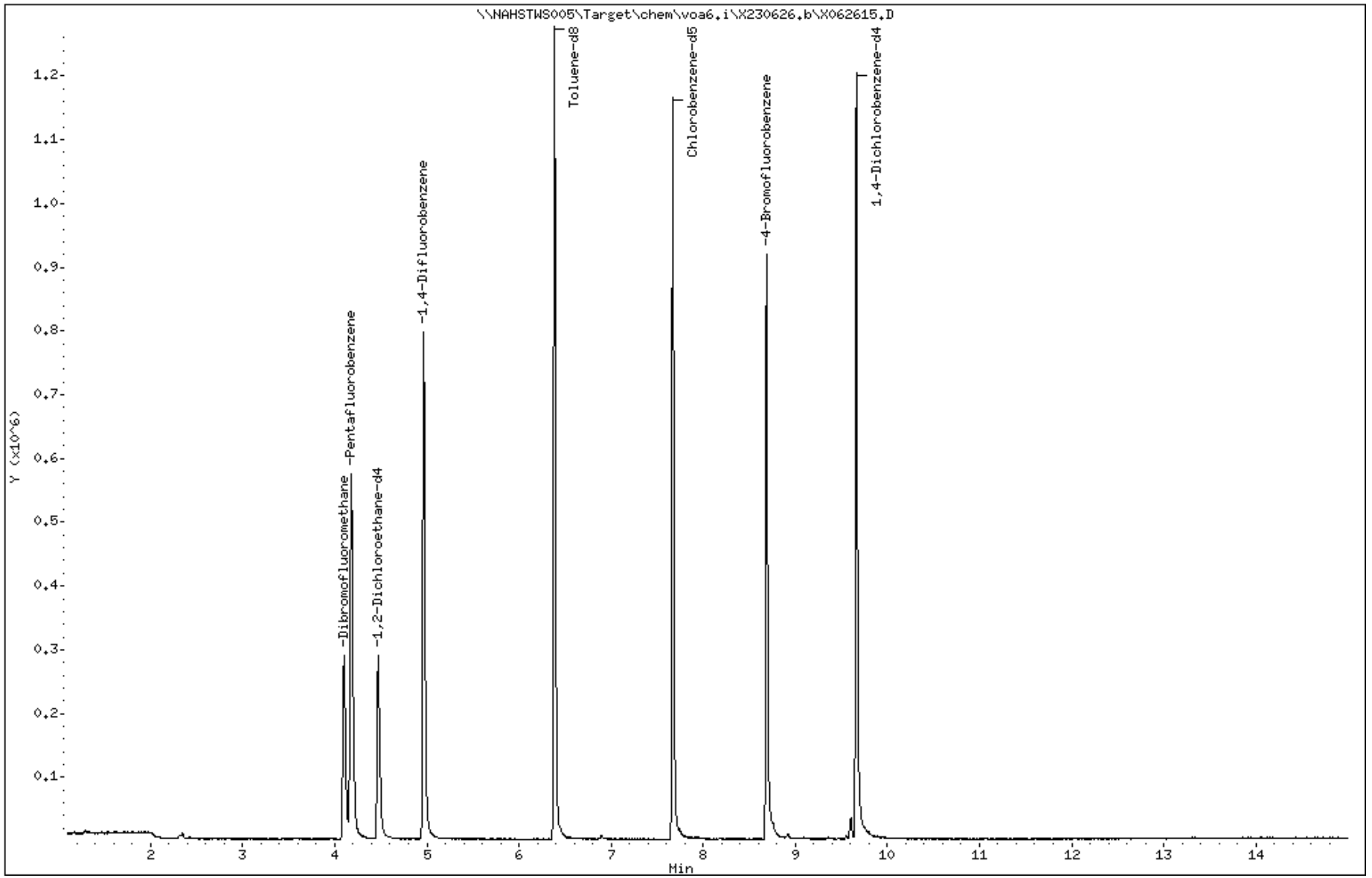
Sample Info: HS23061712-09;HS230611712-09;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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LabSampID : HS23061712-09

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062624.D Page 1
Report Date: 06-Jul-2023 12:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062624.D
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Inj Date : 26-JUN-2023 20:37
Operator : PC Inst ID: voa6.i
Smp Info : HS23061712-06;HS230611712-06;;;
Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 06-Jul-2023 12:04 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.177	(1.000)	482300	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.095	(0.981)	202415	46.9725	46.97
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	209915	45.0652	45.06
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	674502	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	606266	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	801273	52.2760	52.27
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	279121	47.1255	47.12
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	311827	50.0000	
138 Freon TF	101	1.917	1.917	(0.459)	15764	4.79381	4.79(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01201542

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062624.D

Date : 26-JUN-2023 20:37

Client ID: HS230611712-06

Instrument: voa6.i

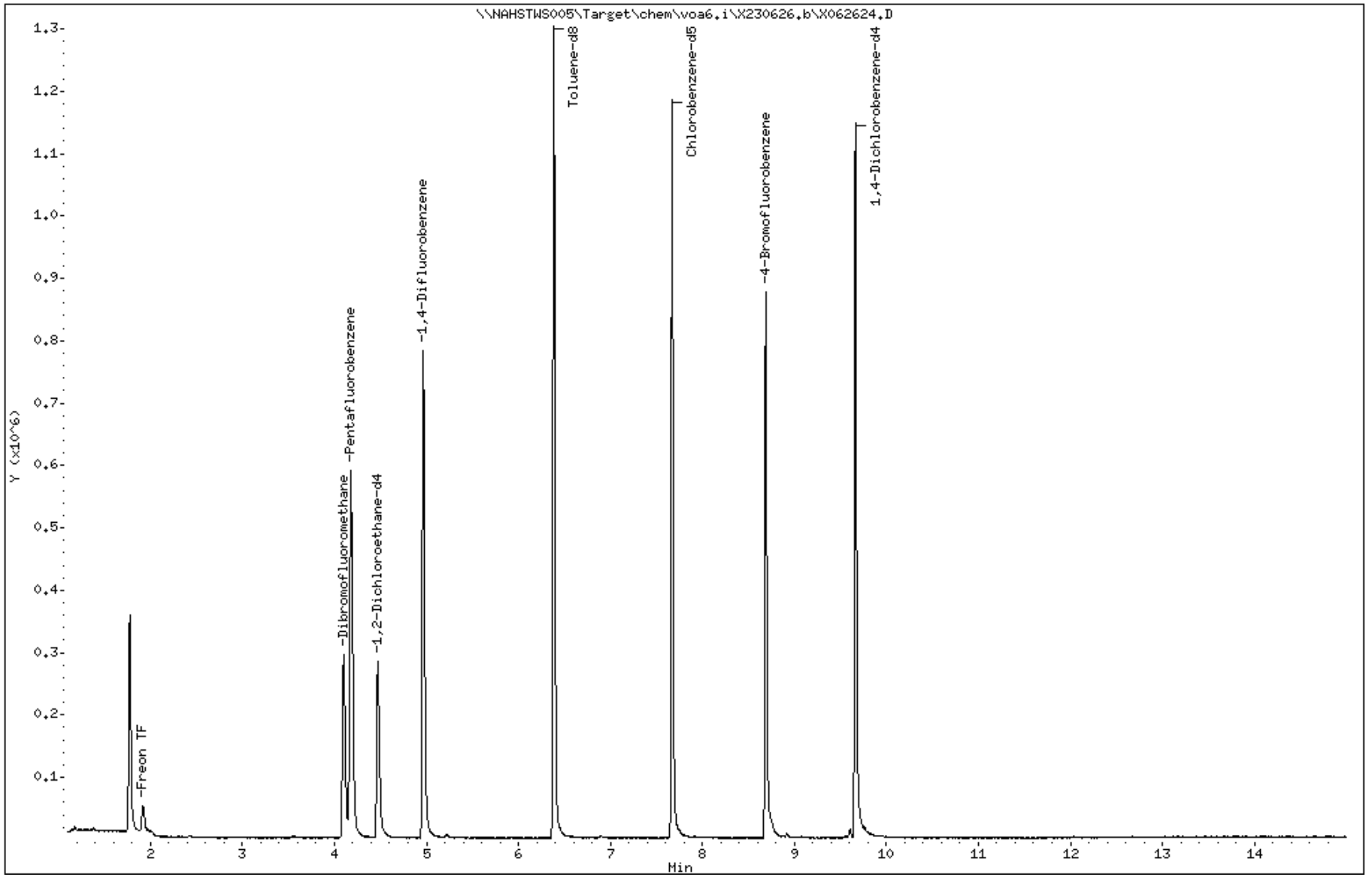
Sample Info: HS23061712-06;HS230611712-06;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062624.D

Date : 26-JUN-2023 20:37

Client ID: HS230611712-06

Instrument: voa6.i

Sample Info: HS23061712-06;HS230611712-06;;;

Purge Volume: 5.0

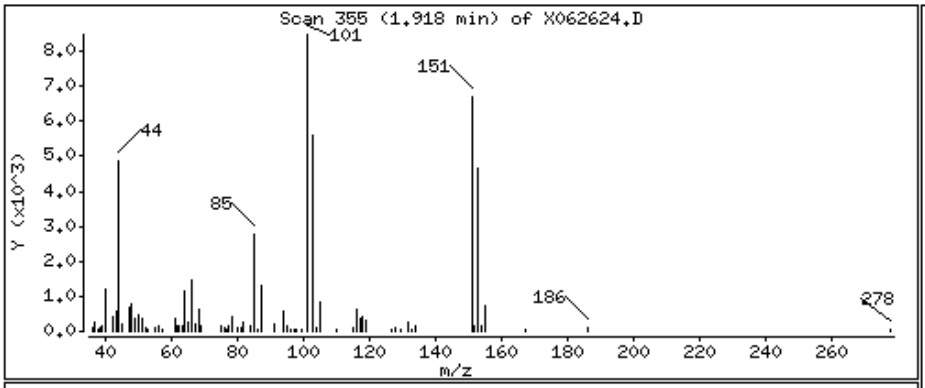
Operator: PC

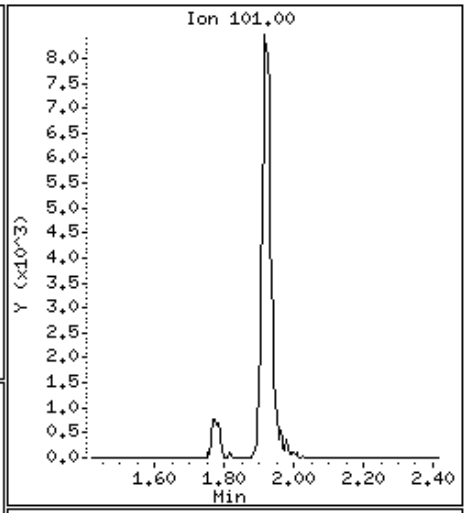
Column phase: DB624

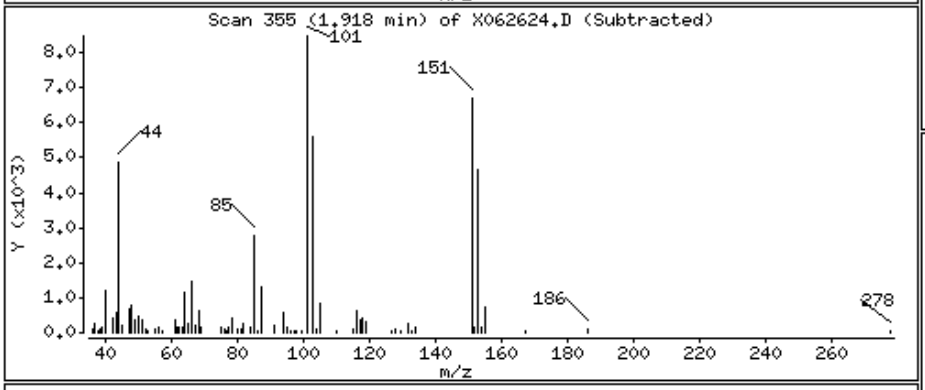
Column diameter: 0.18

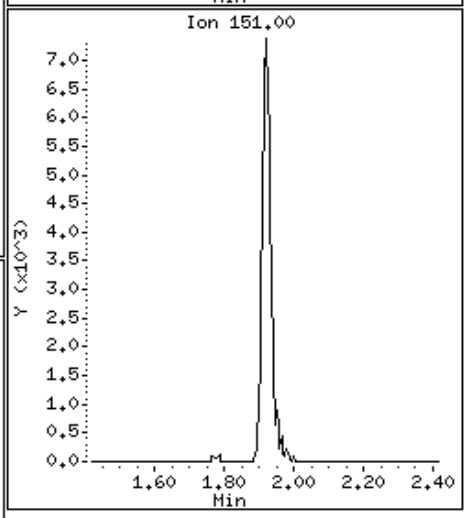
138 Freon TF

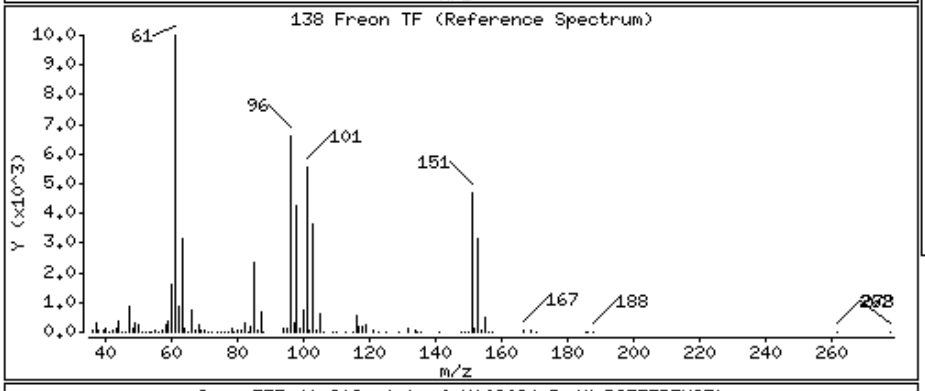
Concentration: 4.79 ug/l

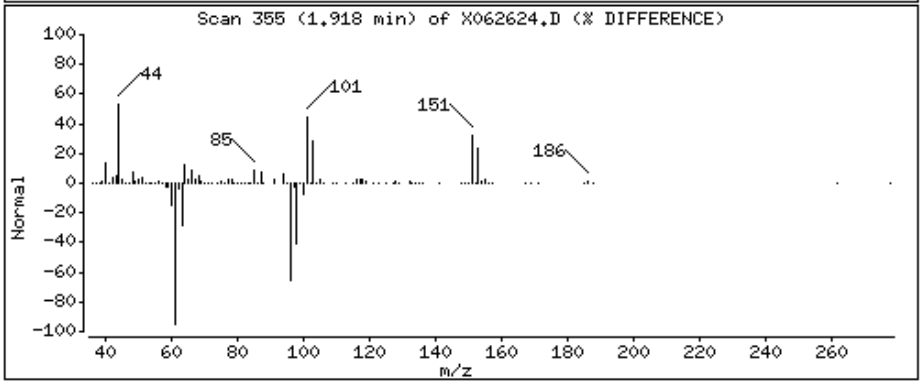












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062624.D
Inj Date : 26-JUN-2023 20:37
InstruID : voa6.i
LabSampID : HS23061712-06

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062625.D Page 1
Report Date: 06-Jul-2023 12:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062625.D
Lab Smp Id: HS23061712-01 Client Smp ID: HS230611712-01
Inj Date : 26-JUN-2023 20:58
Operator : PC Inst ID: voa6.i
Smp Info : HS23061712-01;HS230611712-01;;;
Misc Info : V6;WATER;0;25;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\8260W.m
Meth Date : 06-Jul-2023 12:04 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 23
Dil Factor: 25.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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	4.181	4.177	(1.000)	452873	50.0000	
	27	cis-1,2-Dichloroethene	96	3.544	3.525	(0.848)	16063	3.28322	82.08(a)
	28	Chloroform	83	3.915	3.908	(0.936)	11048	1.34304	33.57(a)
$	30	Dibromofluoromethane	113	4.102	4.095	(0.981)	190773	47.1488	47.14
	33	1,2-Dichloroethane	62	4.564	4.552	(0.919)	18109	3.35359	83.83(a)
	34	Carbon Tetrachloride	117	4.271	4.264	(0.860)	5564	1.07357	26.83(a)
$	35	1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	202067	46.2208	46.22
*	36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	643124	50.0000	
	38	Trichloroethene	130	5.205	5.205	(1.048)	944271	207.023	5175.58(A)
*	47	Chlorobenzene-d5	117	7.671	7.667	(1.000)	567008	50.0000	
$	48	Toluene-d8	98	6.385	6.385	(0.832)	753020	52.5294	52.52
$	69	4-Bromofluorobenzene	95	8.691	8.687	(1.133)	267335	48.2737	48.27
*	70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	299191	50.0000	
M	94	1,2-Dichloroethylene (total)	96				16063	3.28322	82.08(a)
	138	Freon TF	101	1.921	1.917	(0.459)	263607	82.5136	2062.84

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.

01201547

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062625.D

Date : 26-JUN-2023 20:58

Client ID: HS230611712-01

Instrument: voa6.i

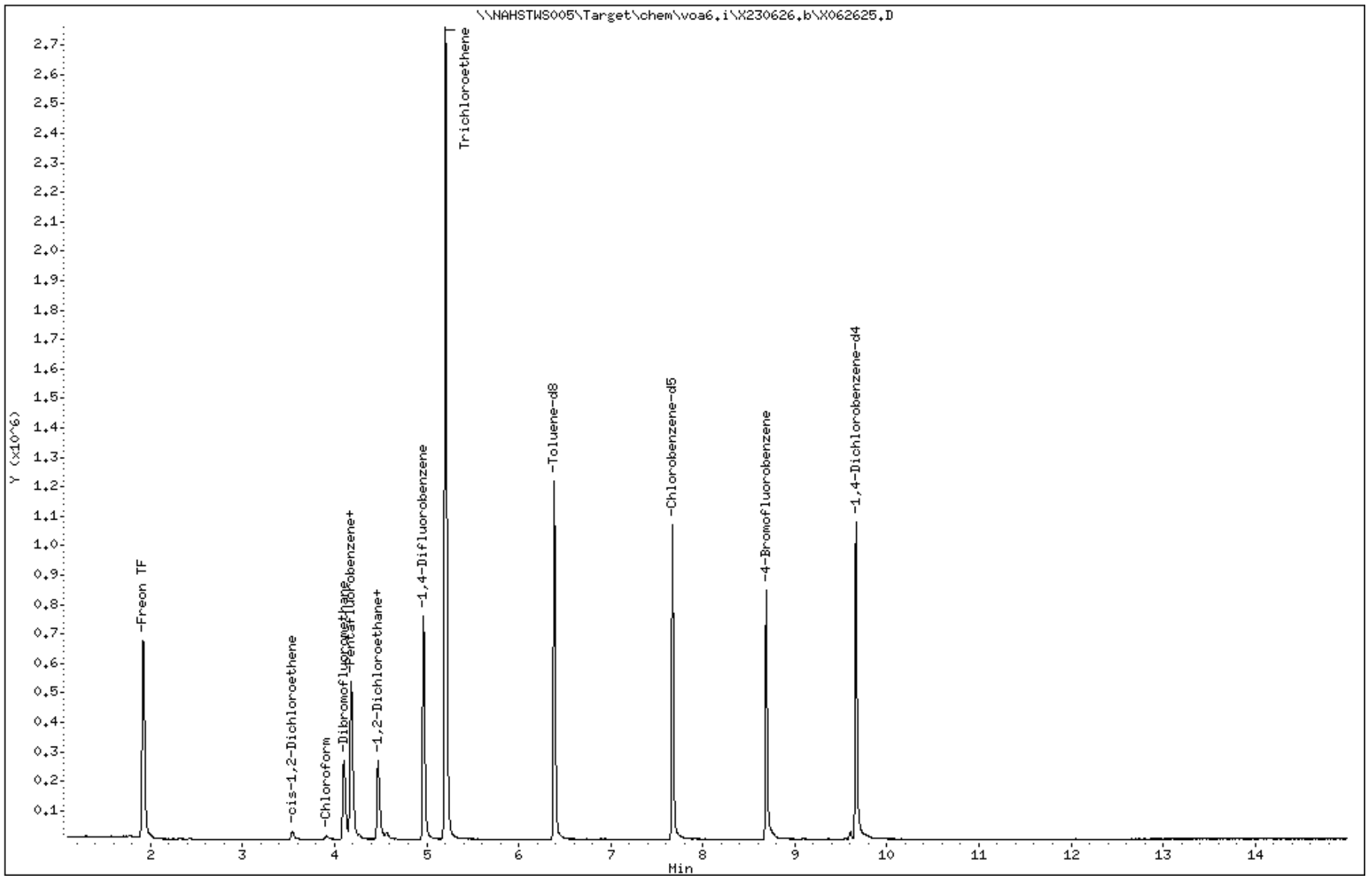
Sample Info: HS23061712-01;HS230611712-01;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062625.D Page 2

Date : 26-JUN-2023 20:58

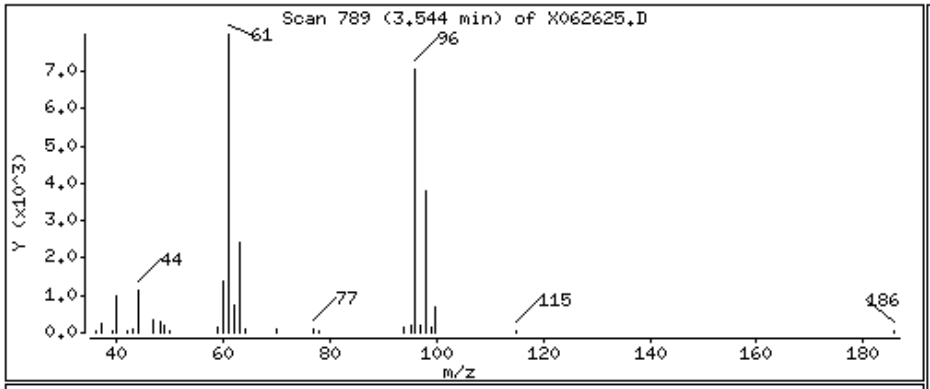
Client ID: HS230611712-01 Instrument: voa6.i

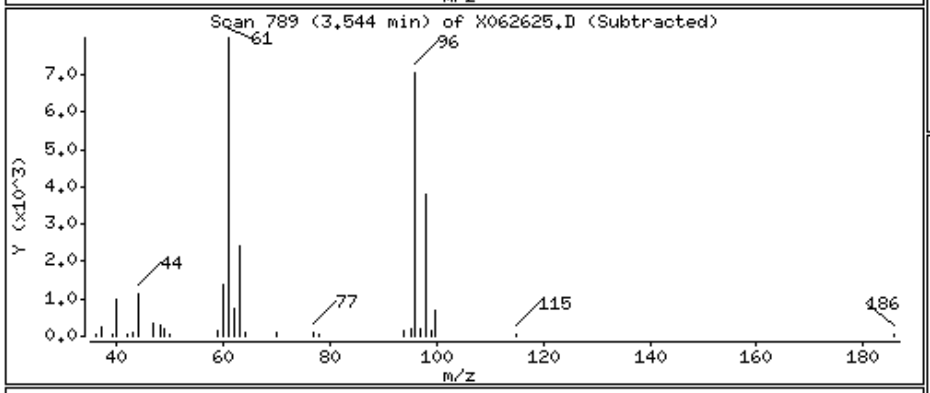
Sample Info: HS23061712-01;HS230611712-01;;;

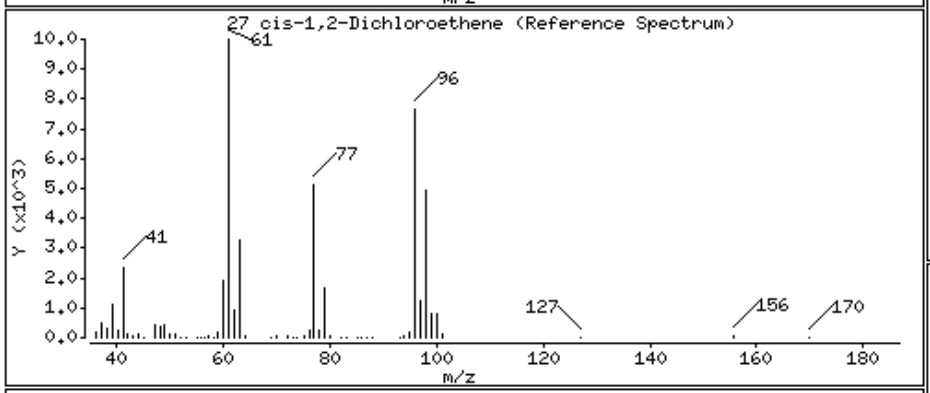
Purge Volume: 5.0 Operator: PC

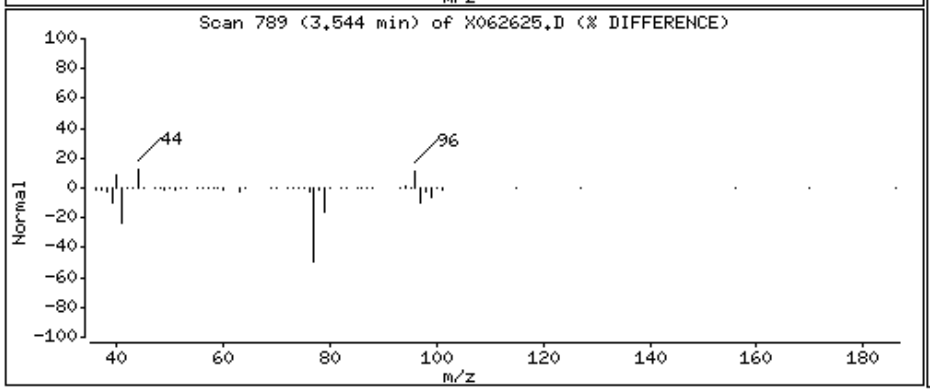
Column phase: DB624 Column diameter: 0.18

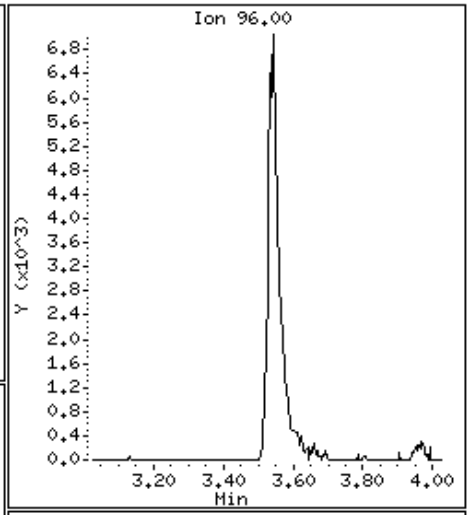
27 cis-1,2-Dichloroethene Concentration: 82.08 ug/l

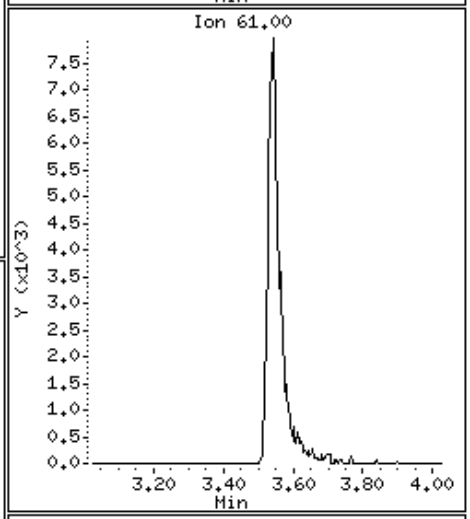


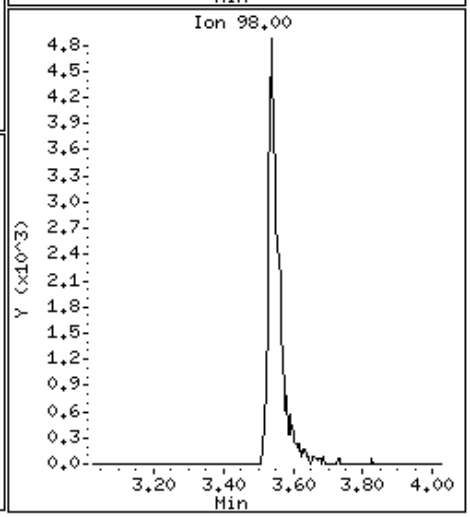












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062625.D

Date : 26-JUN-2023 20:58

Client ID: HS230611712-01

Instrument: voa6.i

Sample Info: HS23061712-01;HS230611712-01;;;

Purge Volume: 5.0

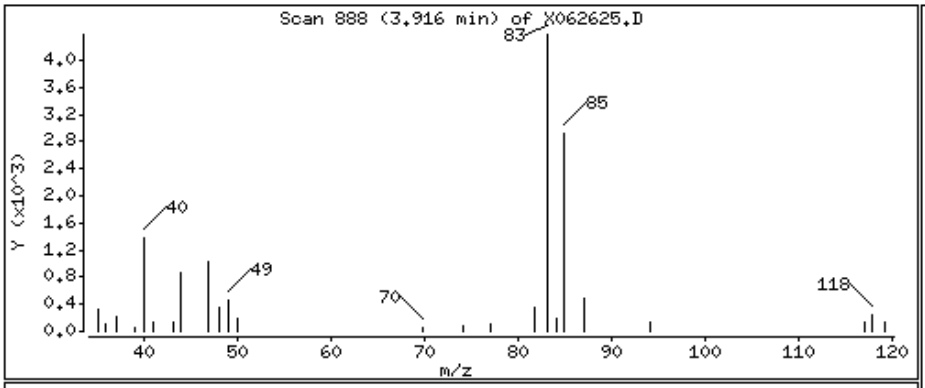
Operator: PC

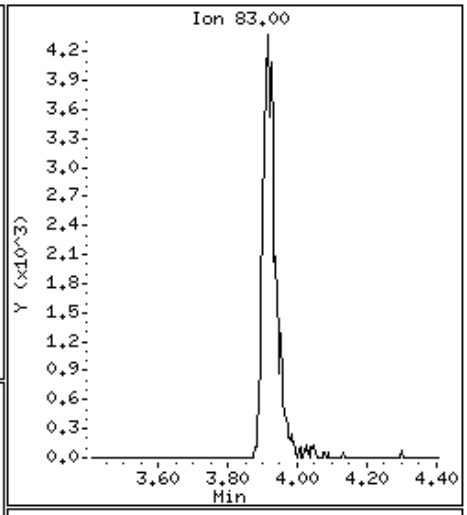
Column phase: DB624

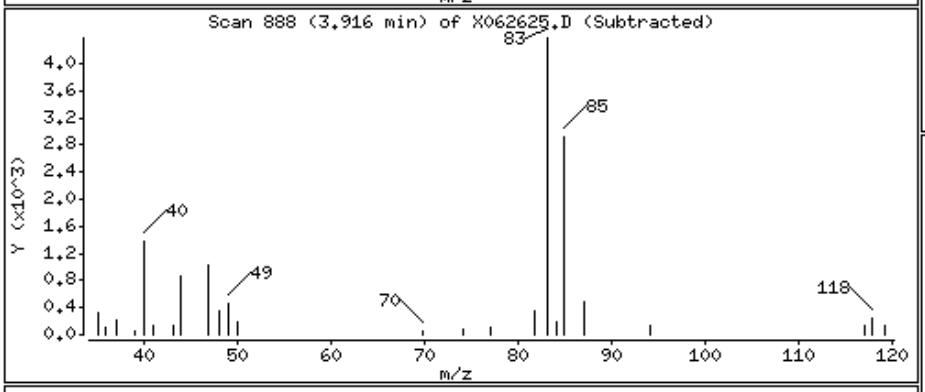
Column diameter: 0.18

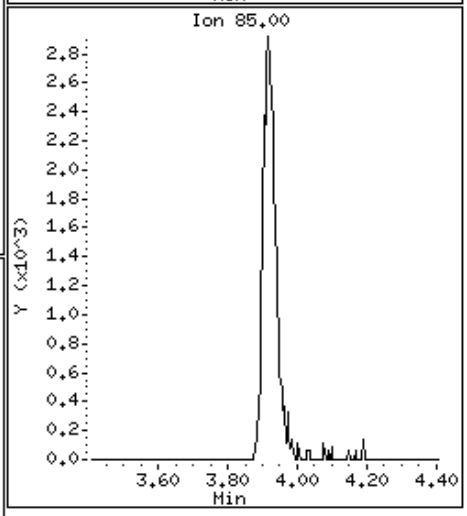
28 Chloroform

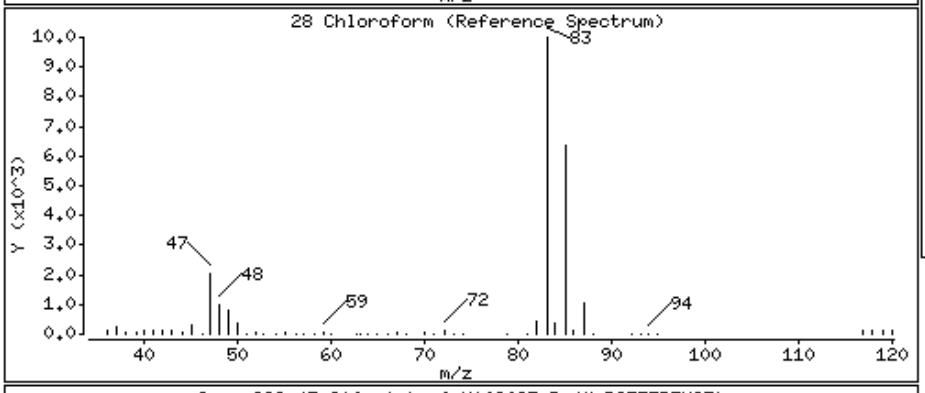
Concentration: 33.57 ug/l

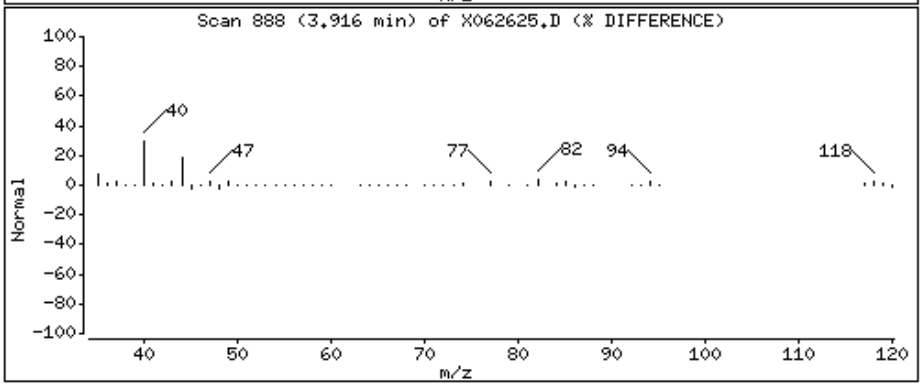












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062625.D

Date : 26-JUN-2023 20:58

Client ID: HS230611712-01

Instrument: voa6.i

Sample Info: HS23061712-01;HS230611712-01;;;

Purge Volume: 5.0

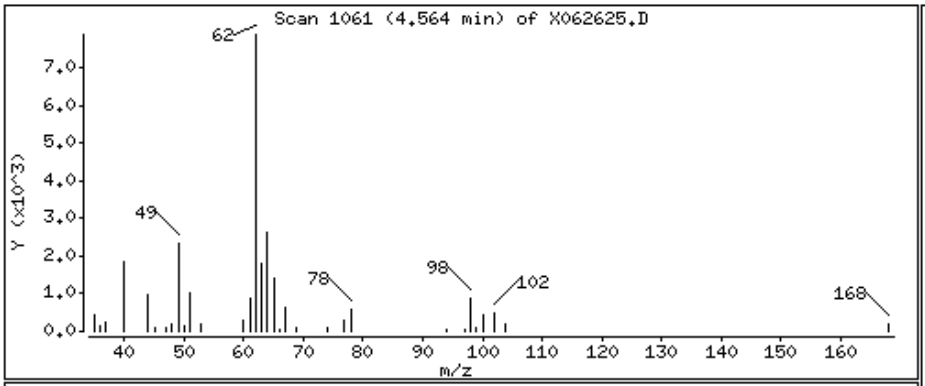
Operator: PC

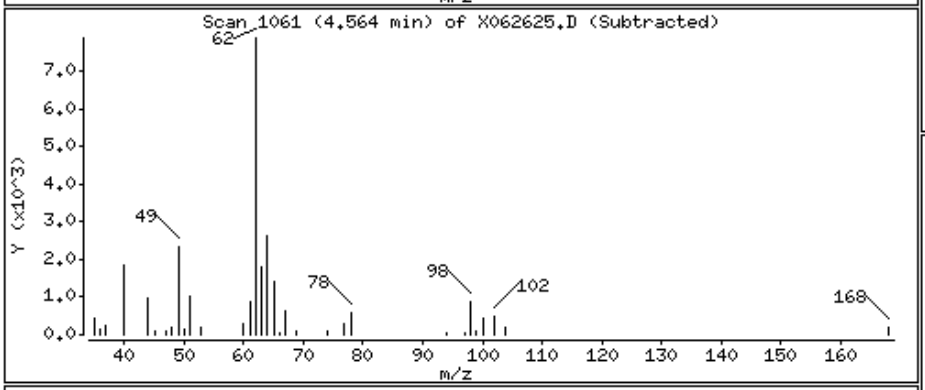
Column phase: DB624

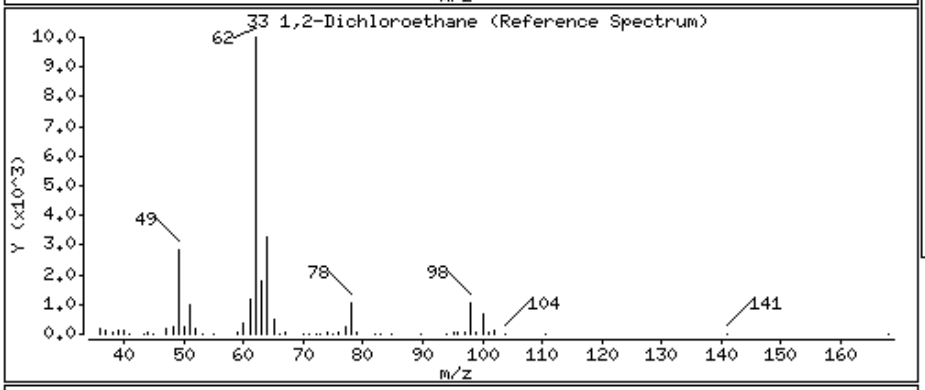
Column diameter: 0.18

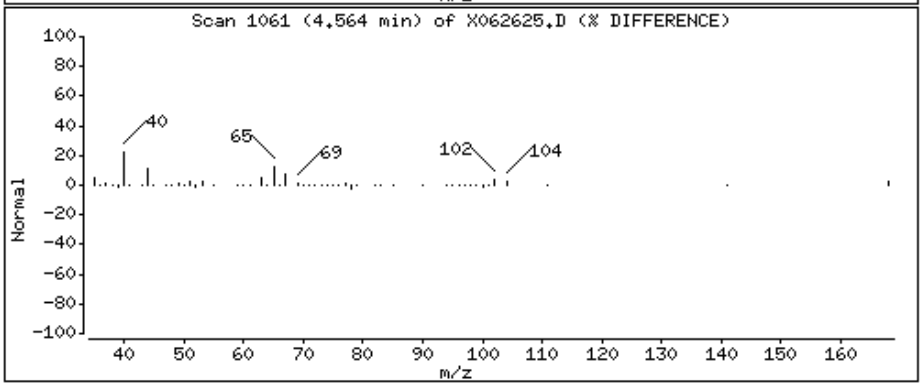
33 1,2-Dichloroethane

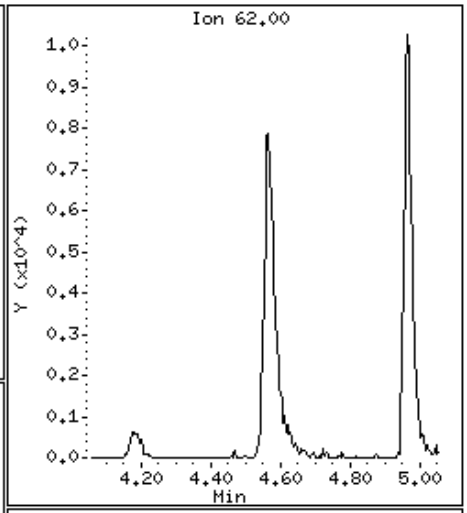
Concentration: 83.83 ug/l

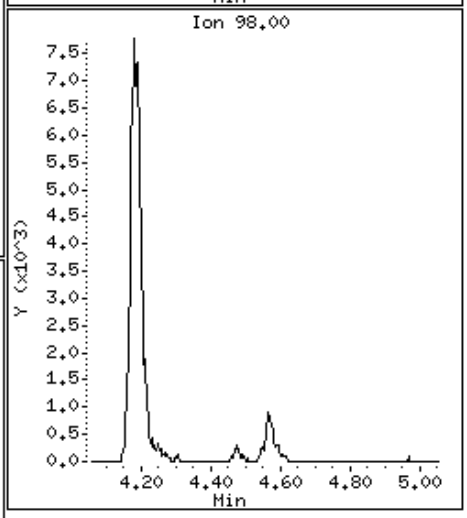












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062625.D

Date : 26-JUN-2023 20:58

Client ID: HS230611712-01

Instrument: voa6.i

Sample Info: HS23061712-01;HS230611712-01;;;

Purge Volume: 5.0

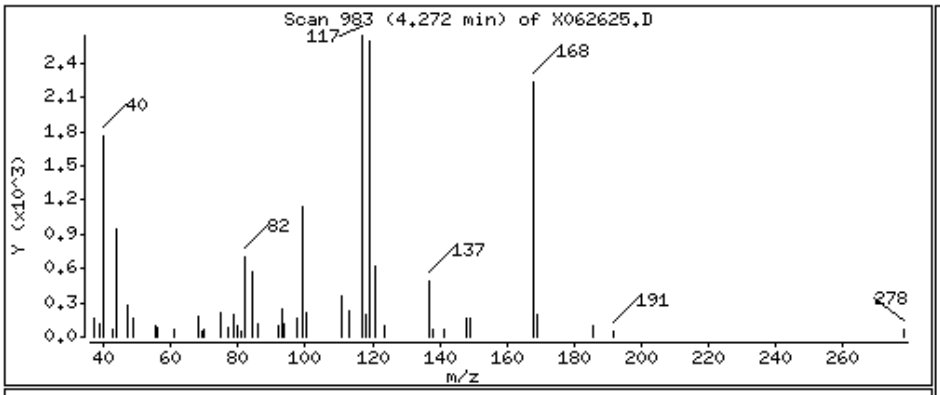
Operator: PC

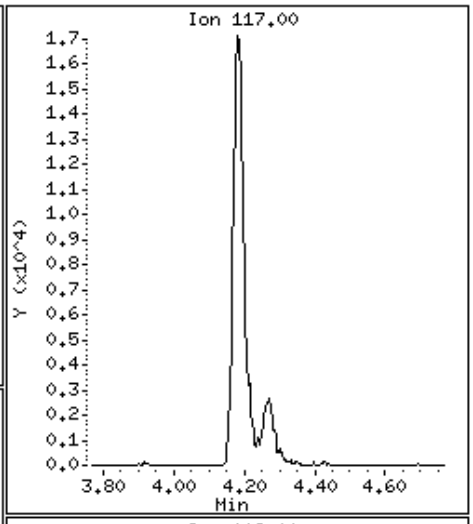
Column phase: DB624

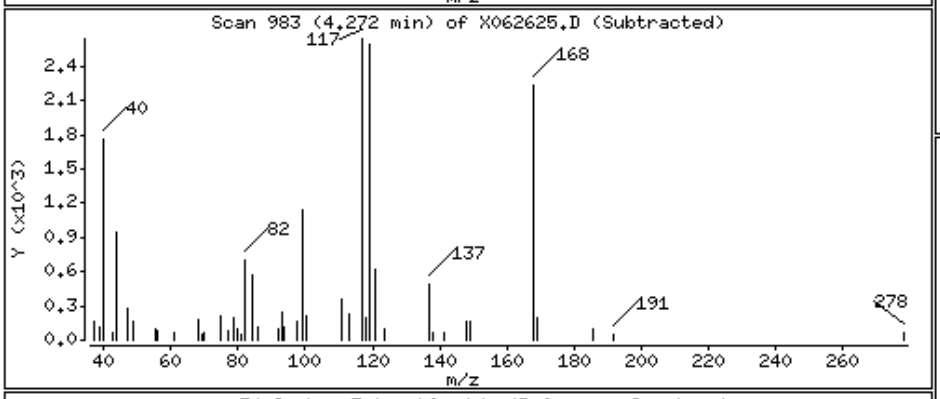
Column diameter: 0.18

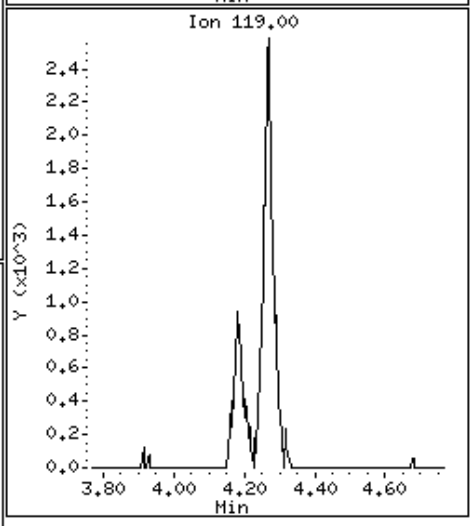
34 Carbon Tetrachloride

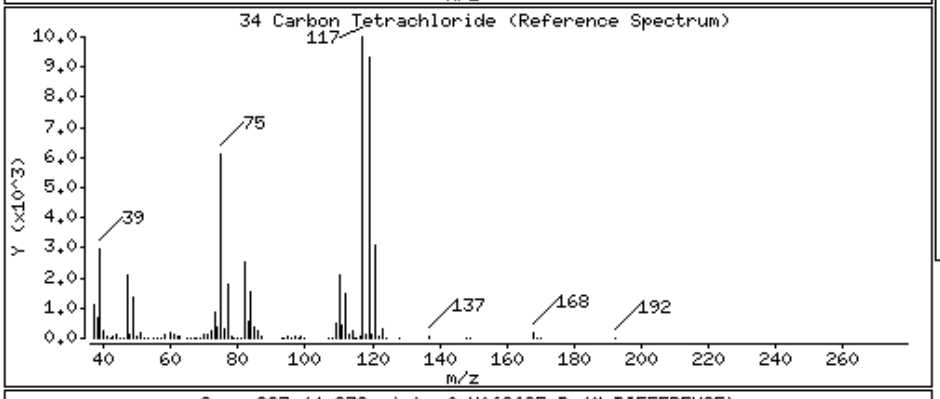
Concentration: 26.83 ug/l

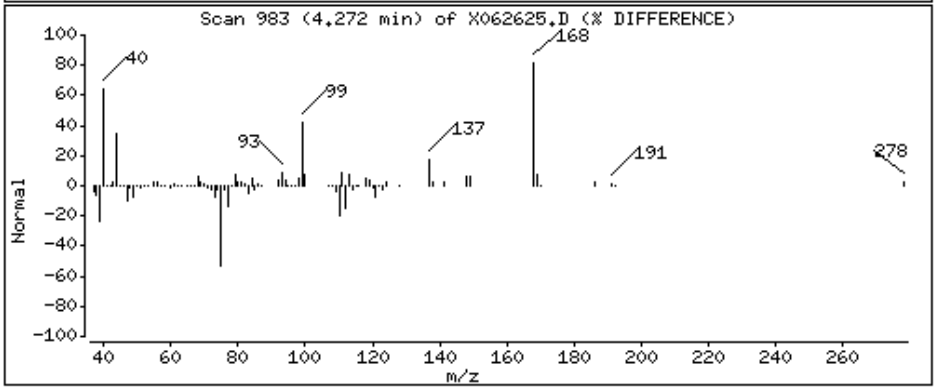












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062625.D

Date : 26-JUN-2023 20:58

Client ID: HS230611712-01

Instrument: voa6.i

Sample Info: HS23061712-01;HS230611712-01;;;

Purge Volume: 5.0

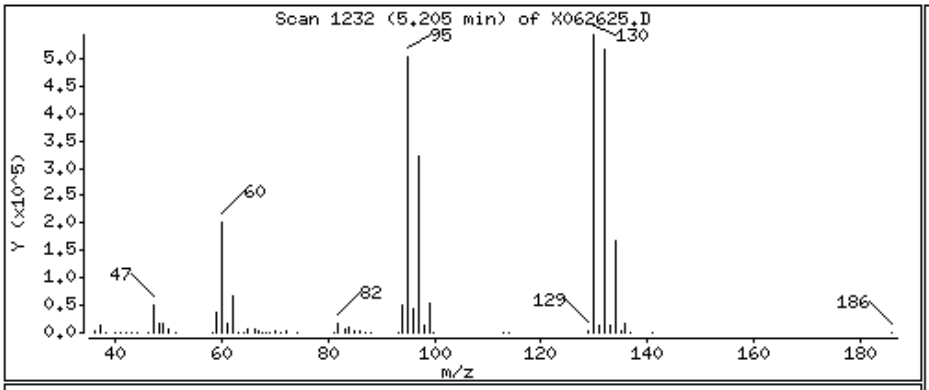
Operator: PC

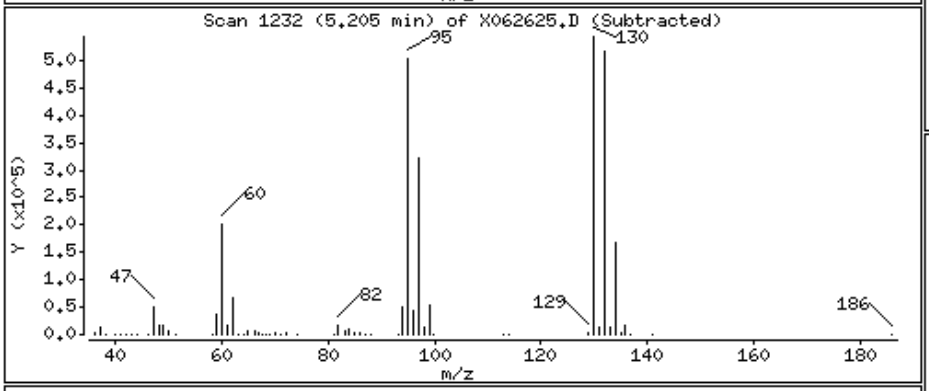
Column phase: DB624

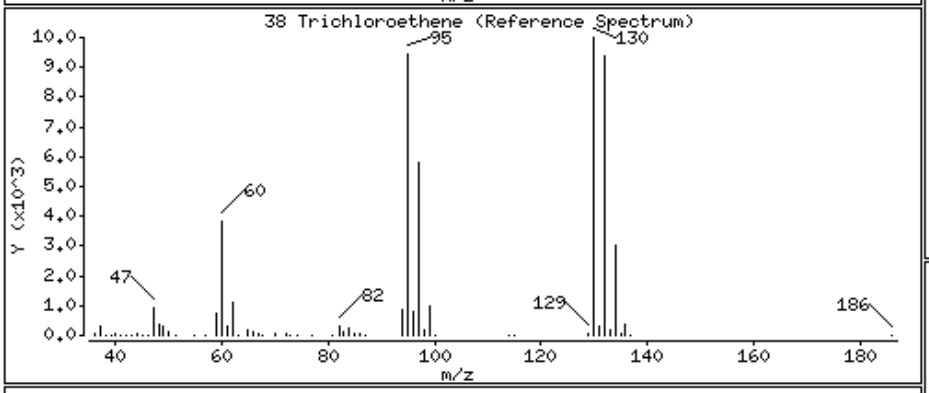
Column diameter: 0.18

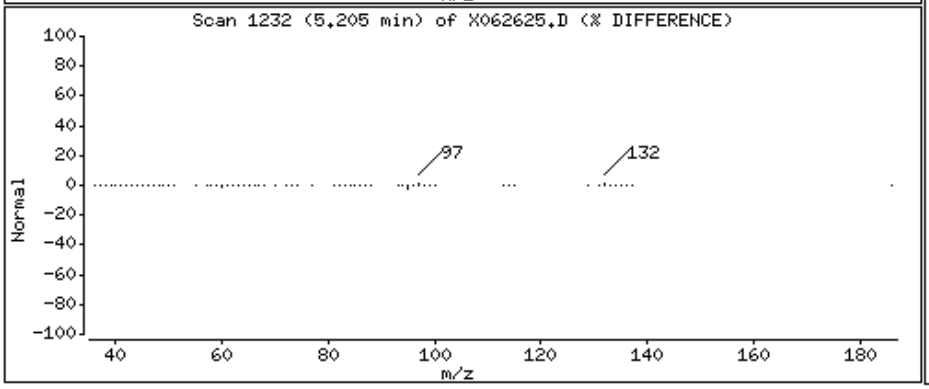
38 Trichloroethene

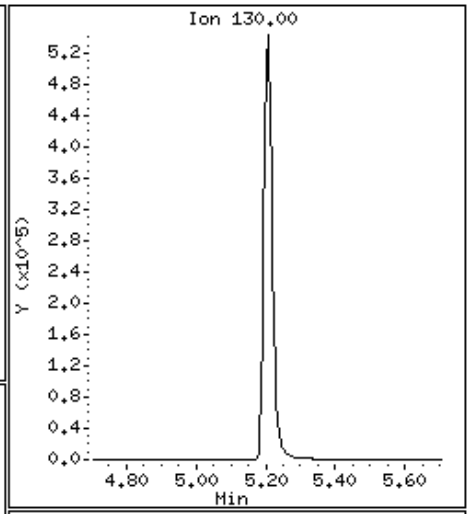
Concentration: 5175.58 ug/l

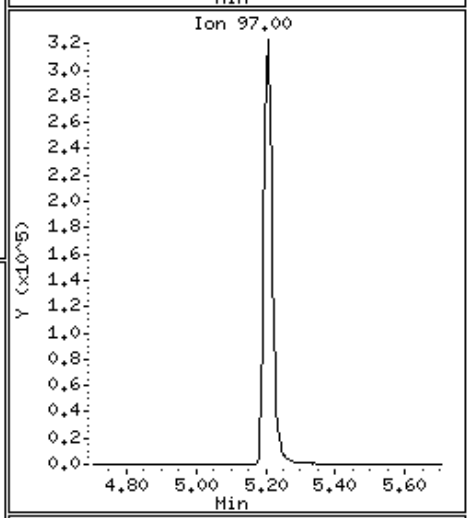


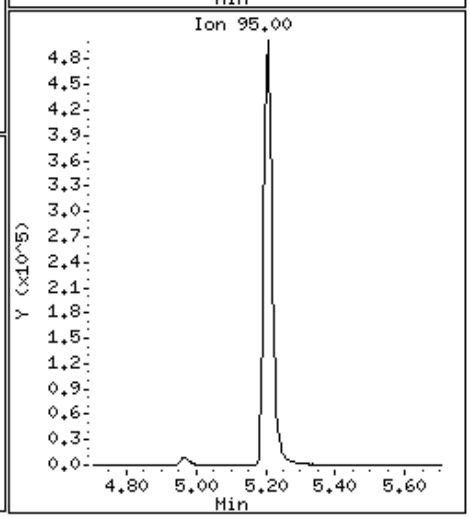












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062625.D

Date : 26-JUN-2023 20:58

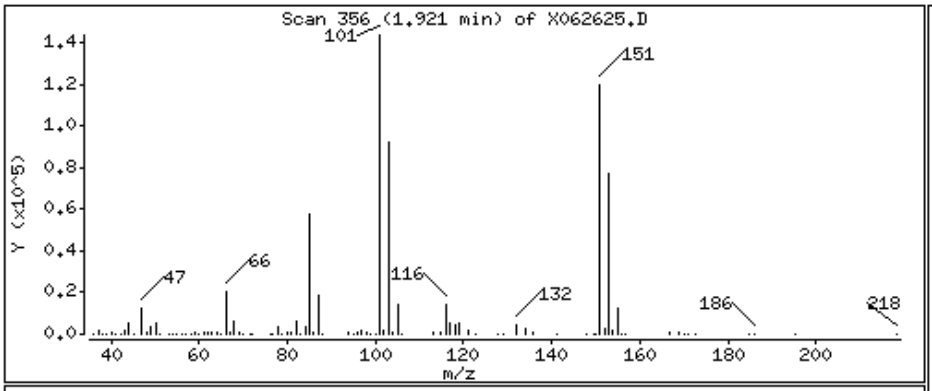
Client ID: HS230611712-01 Instrument: voa6.i

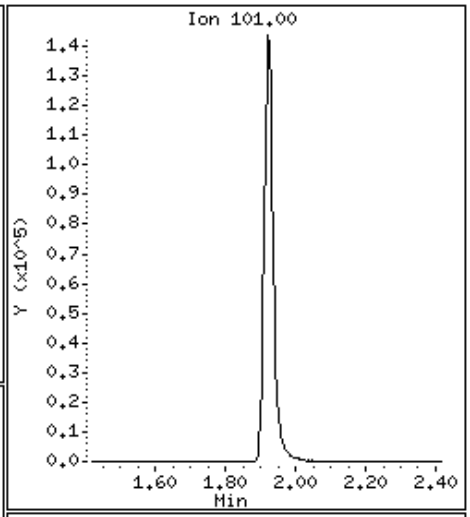
Sample Info: HS23061712-01;HS230611712-01;;;

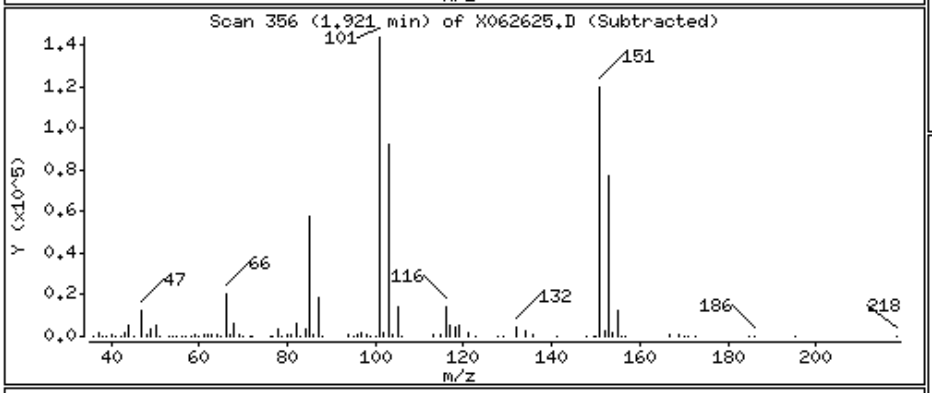
Purge Volume: 5.0 Operator: PC

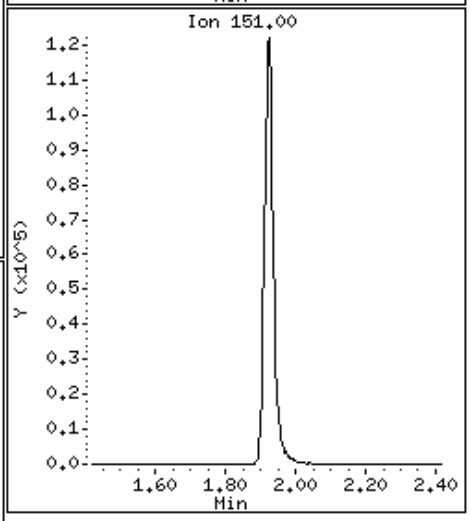
Column phase: DB624 Column diameter: 0.18

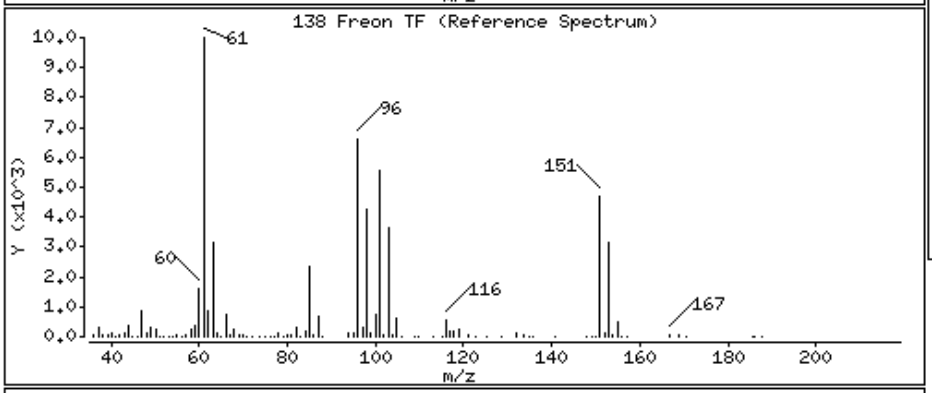
138 Freon TF Concentration: 2062.84 ug/l

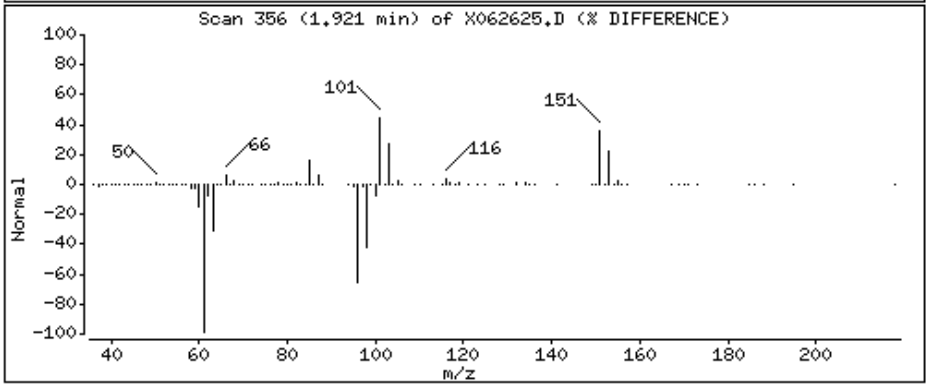












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062625.D
Inj Date : 26-JUN-2023 20:58
InstruID : voa6.i
LabSampID : HS23061712-01

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062626.D Page 1
Report Date: 06-Jul-2023 12:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062626.D
Lab Smp Id: HS23061712-08 Client Smp ID: HS230611712-08
Inj Date : 26-JUN-2023 21:19
Operator : PC Inst ID: voa6.i
Smp Info : HS23061712-08;HS230611712-08;;;
Misc Info : V6;WATER;0;20;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\8260W.m
Meth Date : 06-Jul-2023 12:04 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 24
Dil Factor: 20.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	20.000	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	4.181	4.177	(1.000)	462702	50.0000	
	20 trans-1,2-Dichloroethene	96	2.547	2.532	(0.609)	4062	0.93710	18.74(a)
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.843)	2187702	437.660	8753.19(A)
	28 Chloroform	83	3.911	3.908	(0.935)	8967	1.06691	21.33(a)
$	30 Dibromofluoromethane	113	4.099	4.095	(0.980)	194195	46.9737	46.97
	33 1,2-Dichloroethane	62	4.556	4.552	(0.918)	170559	31.1268	622.53
$	35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	200991	44.9753	44.97
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	652605	50.0000	
	38 Trichloroethene	130	5.205	5.205	(1.048)	2087233	450.960	9019.19(A)
*	47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	573118	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	766189	52.8782	52.87
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	270040	48.2419	48.24
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	300521	50.0000	
M	94 1,2-Dichloroethylene (total)	96				2191764	438.597	8771.94
	138 Freon TF	101	1.921	1.917	(0.459)	81454	25.5617	511.23

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.

01201557

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062626.D

Date : 26-JUN-2023 21:19

Client ID: HS230611712-08

Instrument: voa6.i

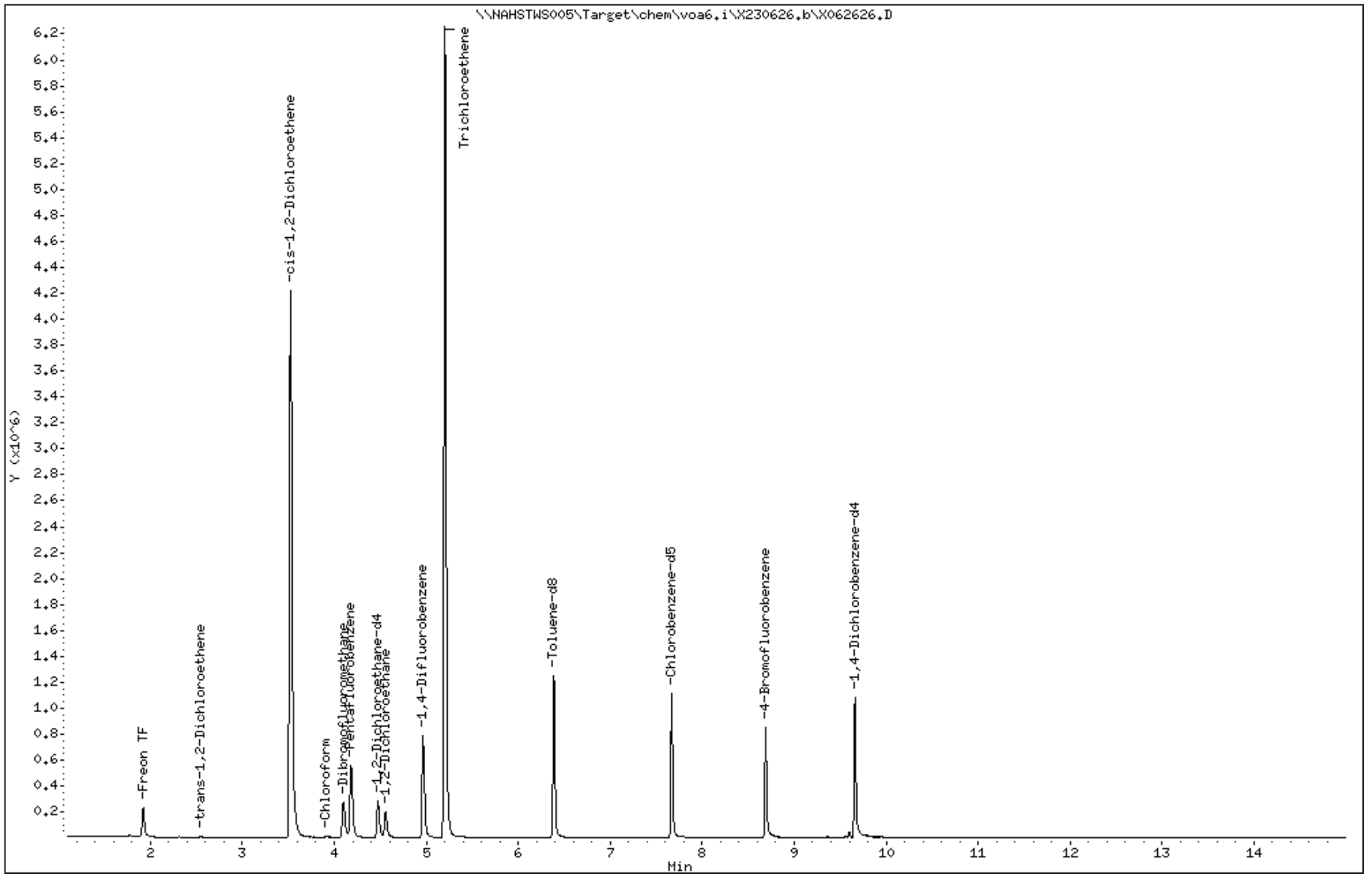
Sample Info: HS23061712-08;HS230611712-08;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062626.D

Date : 26-JUN-2023 21:19

Client ID: HS230611712-08

Instrument: voa6.i

Sample Info: HS23061712-08;HS230611712-08;;;

Purge Volume: 5.0

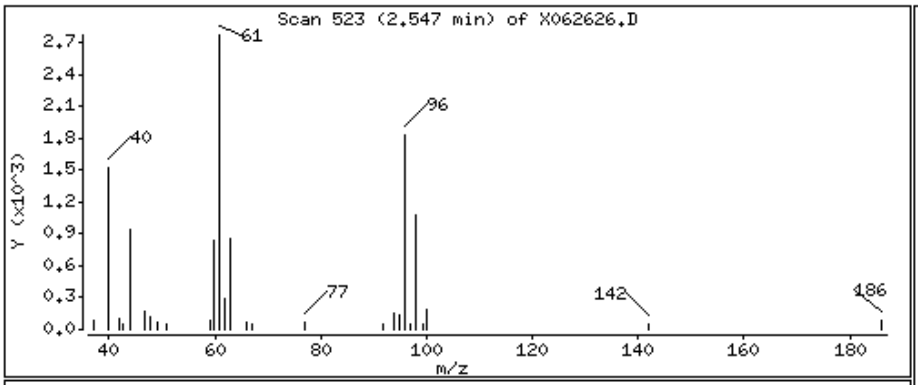
Operator: PC

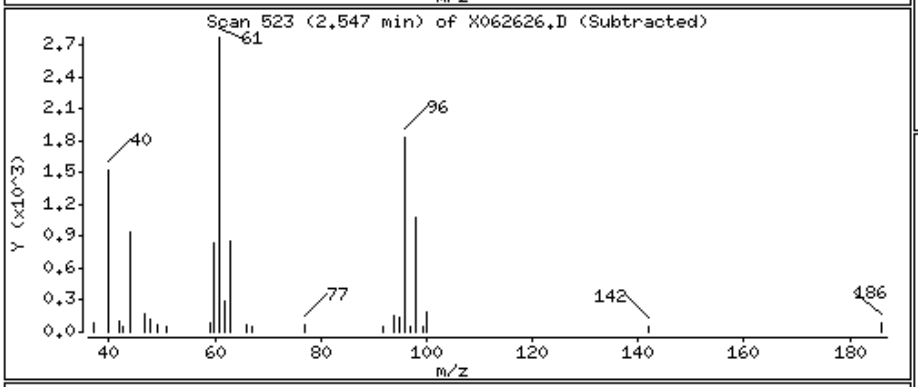
Column phase: DB624

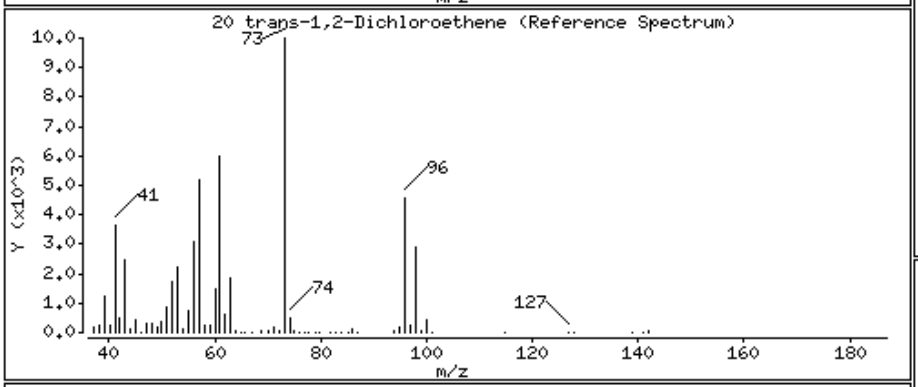
Column diameter: 0.18

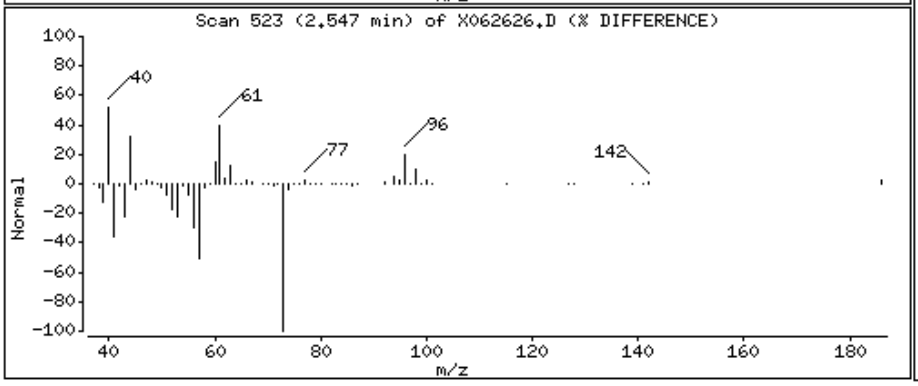
20 trans-1,2-Dichloroethene

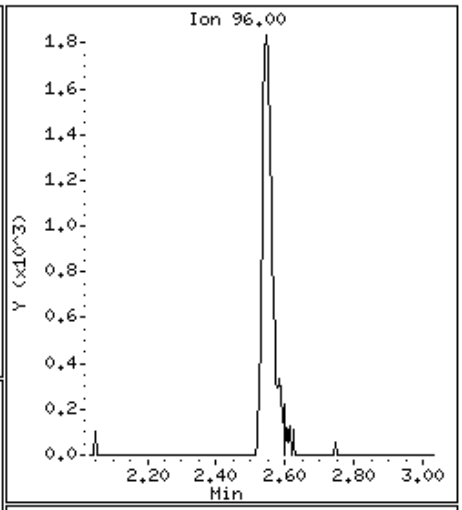
Concentration: 18.74 ug/l

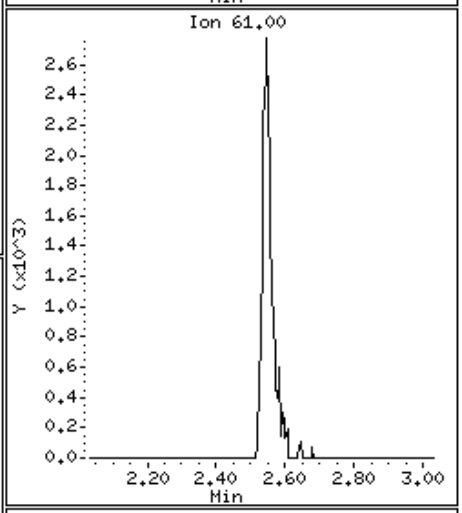


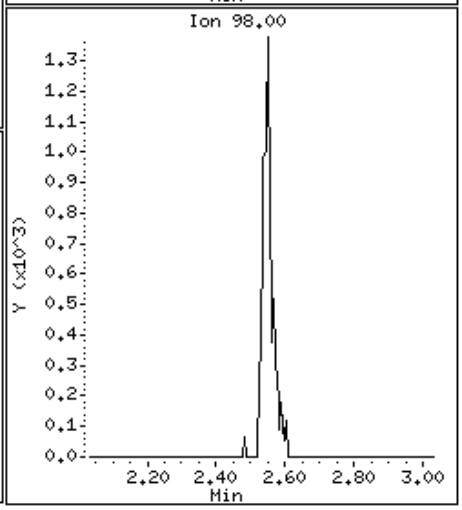












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062626.D Page 3

Date : 26-JUN-2023 21:19

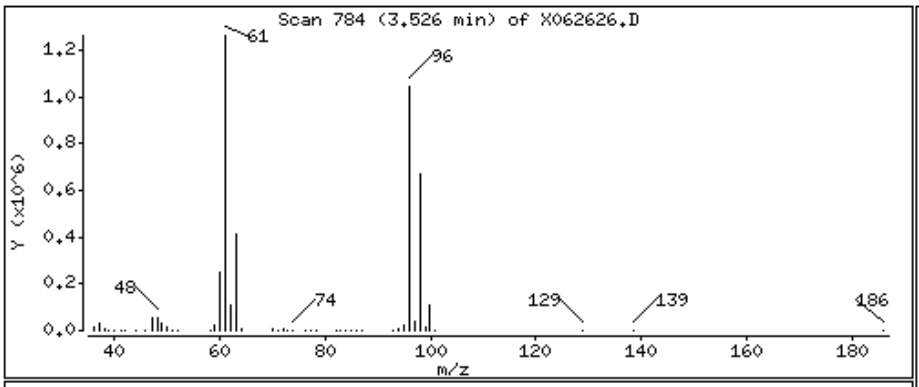
Client ID: HS230611712-08 Instrument: voa6.i

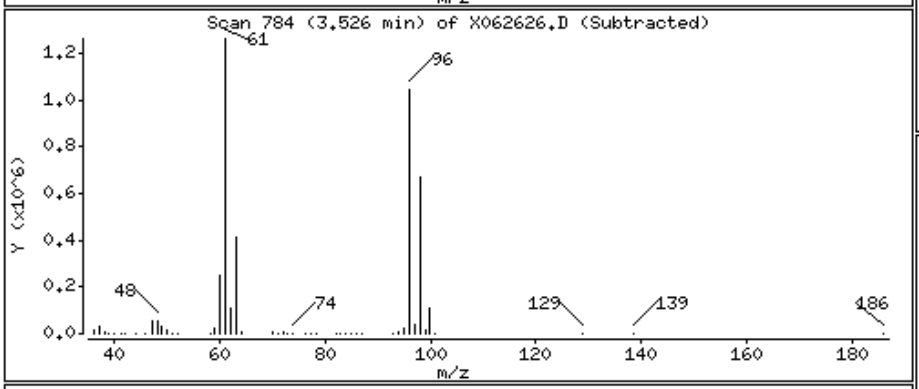
Sample Info: HS23061712-08;HS230611712-08;;;

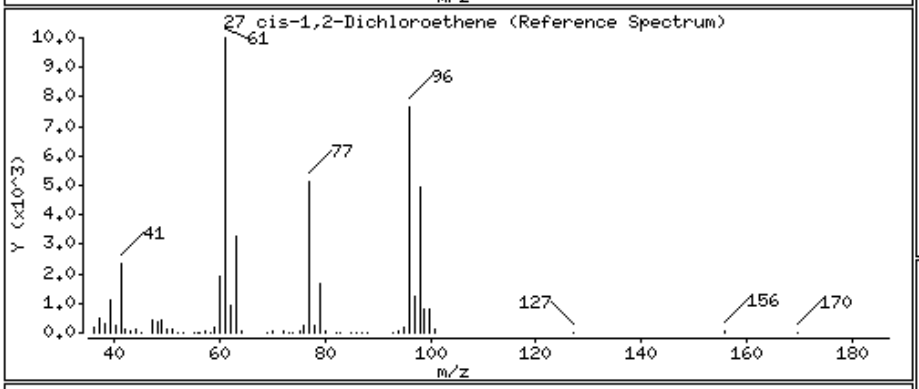
Purge Volume: 5.0 Operator: PC

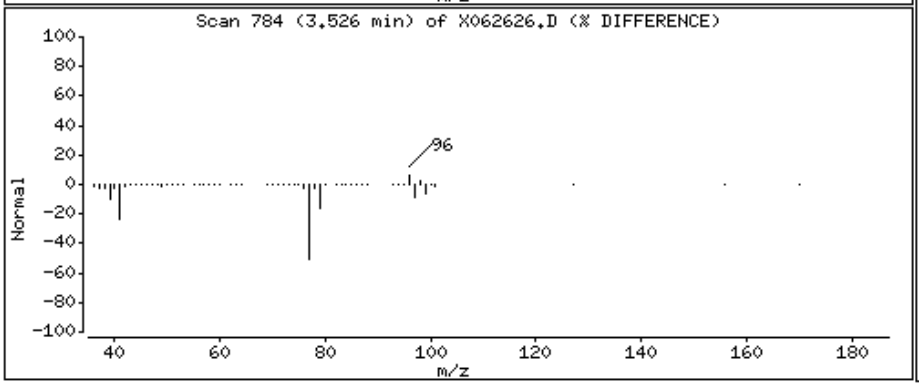
Column phase: DB624 Column diameter: 0.18

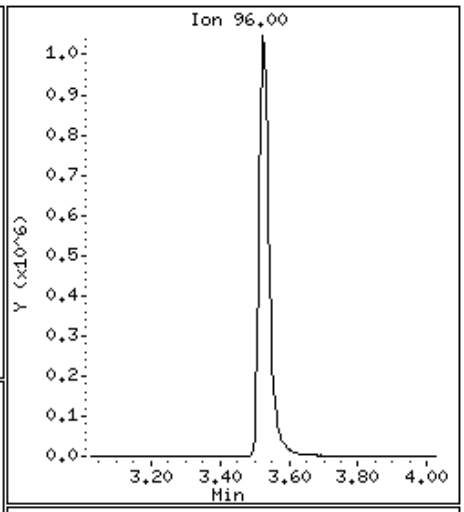
27 cis-1,2-Dichloroethene Concentration: 8753.19 ug/l

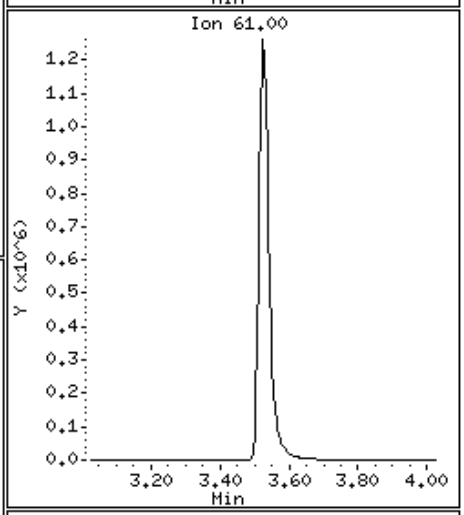


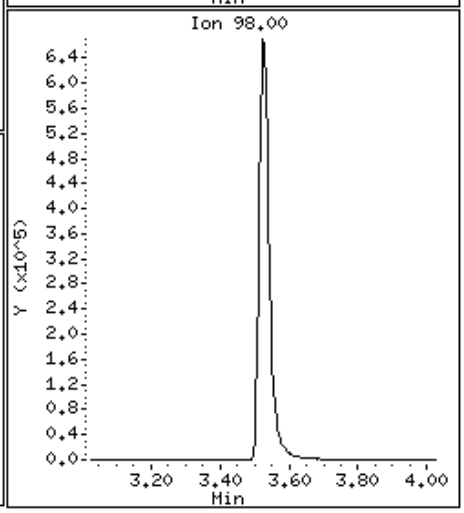












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062626.D

Date : 26-JUN-2023 21:19

Client ID: HS230611712-08

Instrument: voa6.i

Sample Info: HS23061712-08;HS230611712-08;;;

Purge Volume: 5.0

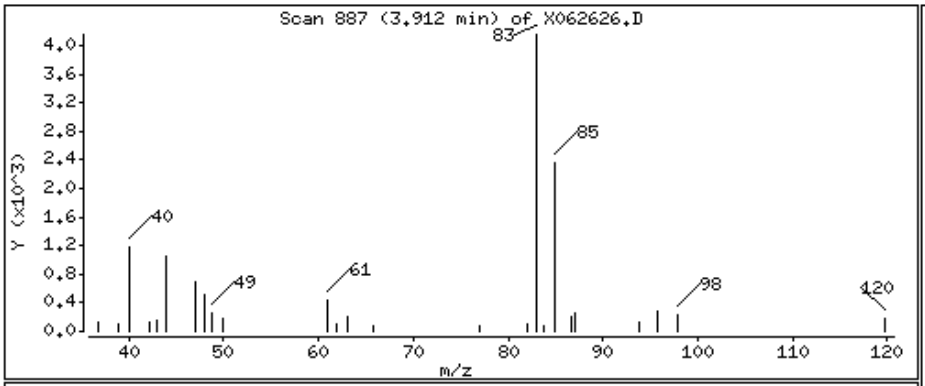
Operator: PC

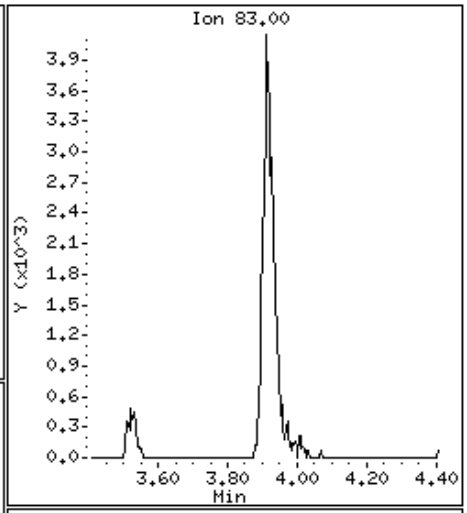
Column phase: DB624

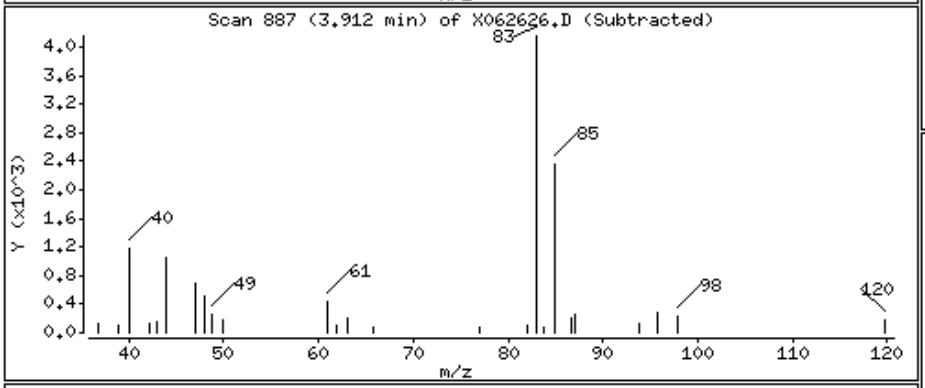
Column diameter: 0.18

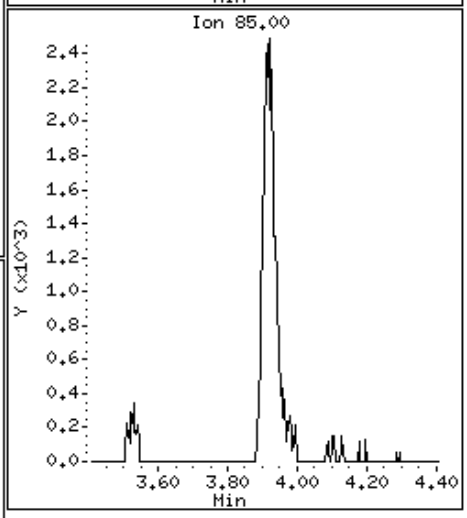
28 Chloroform

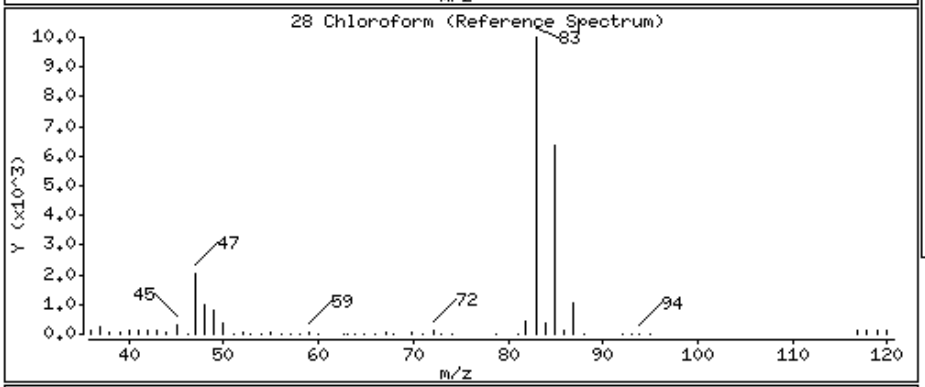
Concentration: 21.33 ug/l

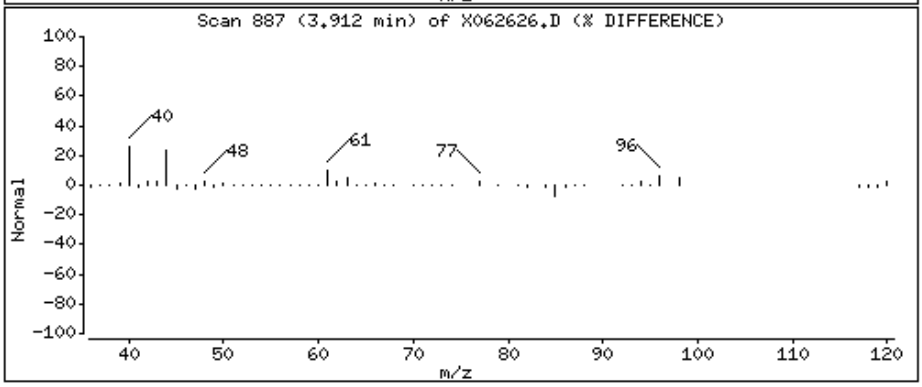












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062626.D

Date : 26-JUN-2023 21:19

Client ID: HS230611712-08

Instrument: voa6.i

Sample Info: HS23061712-08;HS230611712-08;;;

Purge Volume: 5.0

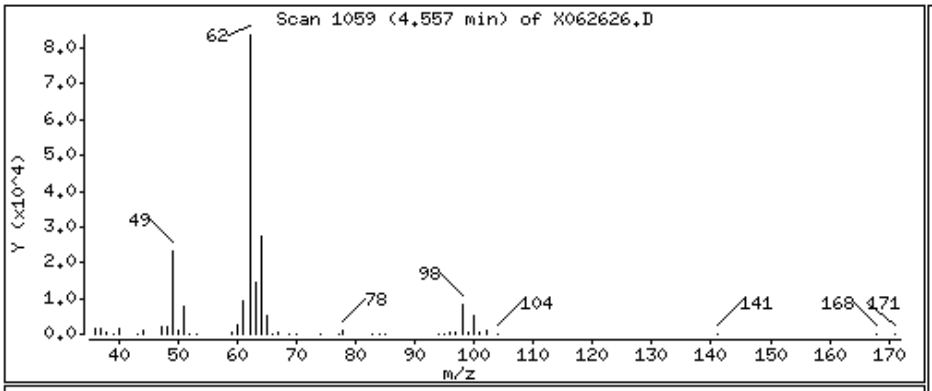
Operator: PC

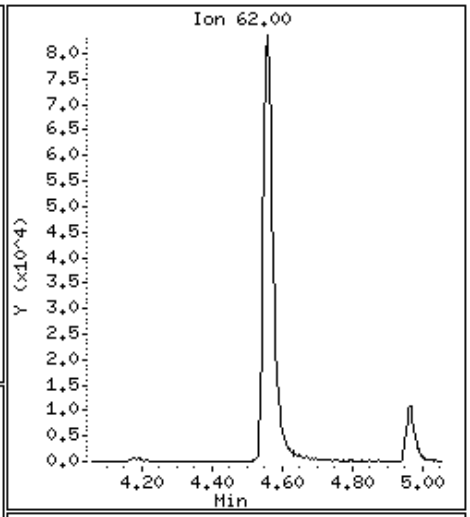
Column phase: DB624

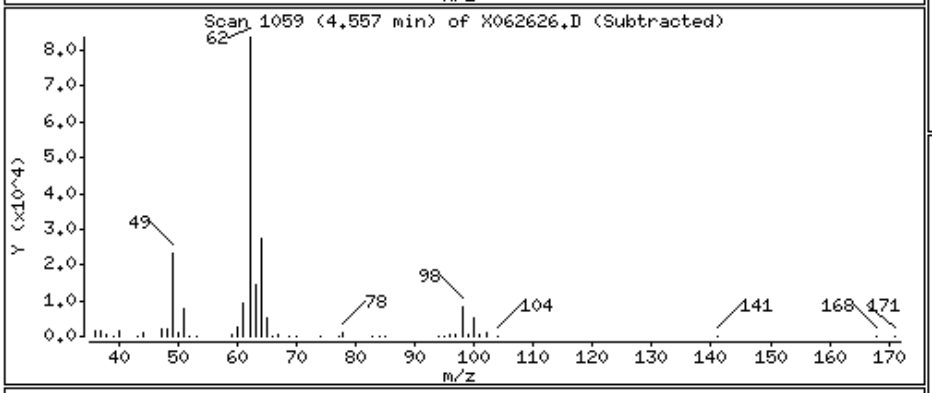
Column diameter: 0.18

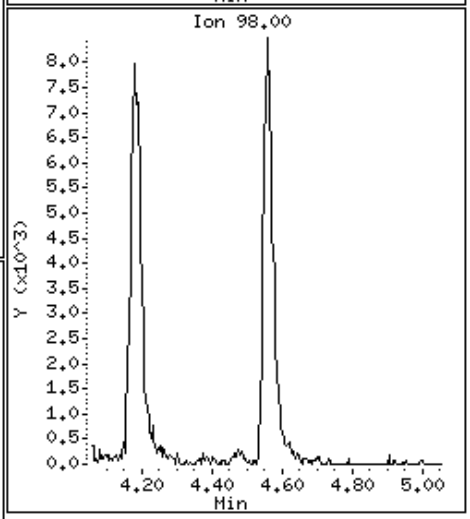
33 1,2-Dichloroethane

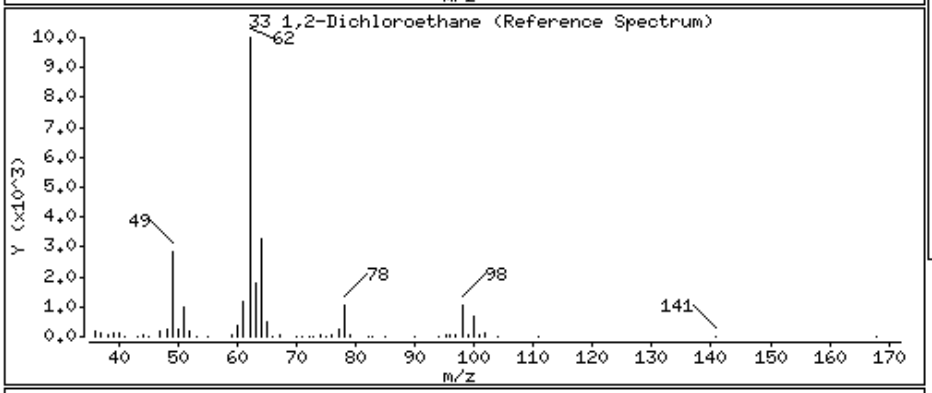
Concentration: 622.53 ug/l

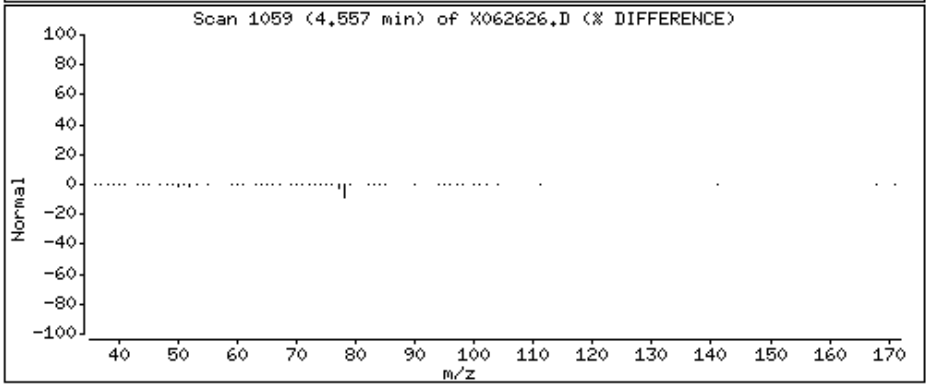












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062626.D Page 6

Date : 26-JUN-2023 21:19

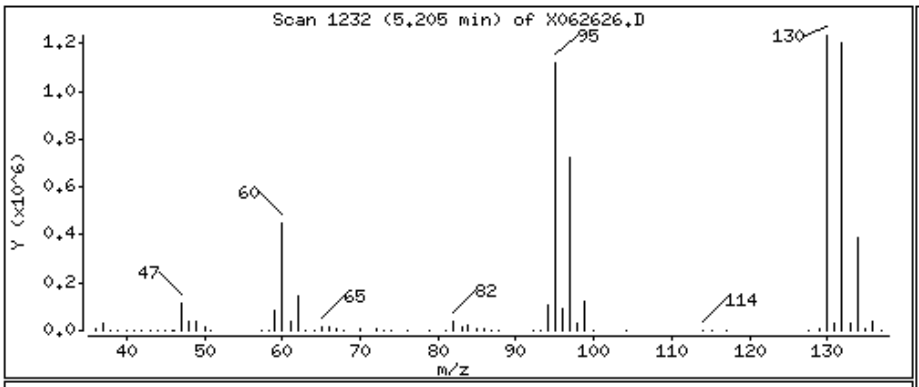
Client ID: HS230611712-08 Instrument: voa6.i

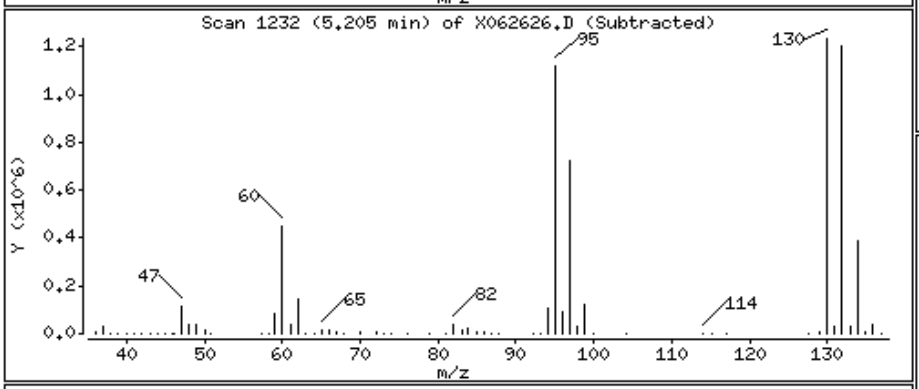
Sample Info: HS23061712-08;HS230611712-08;;;

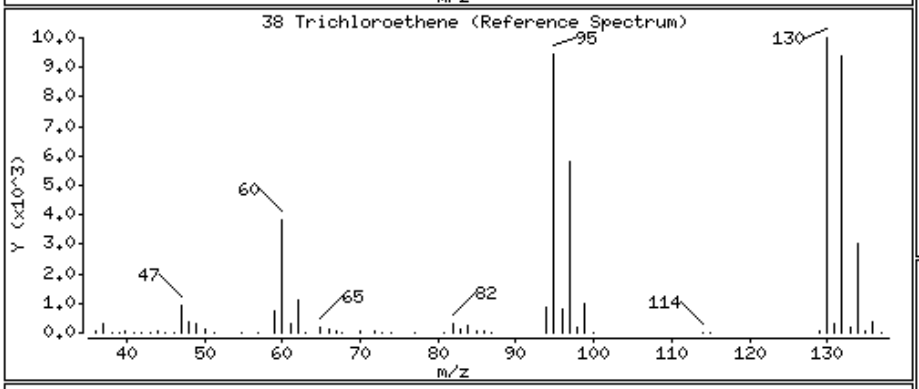
Purge Volume: 5.0 Operator: PC

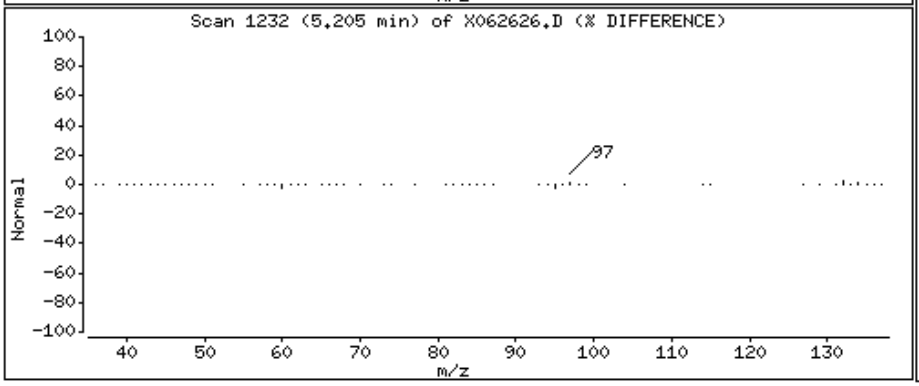
Column phase: DB624 Column diameter: 0.18

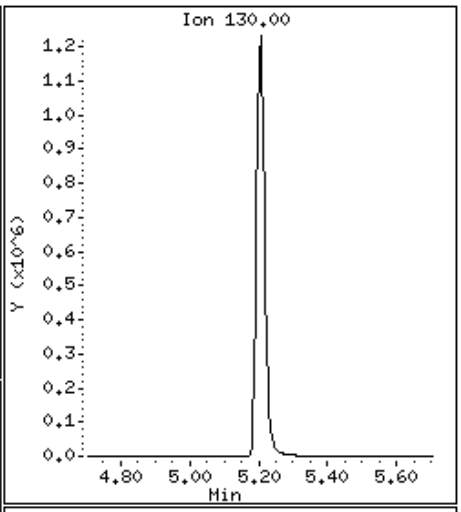
38 Trichloroethene Concentration: 9019.19 ug/l

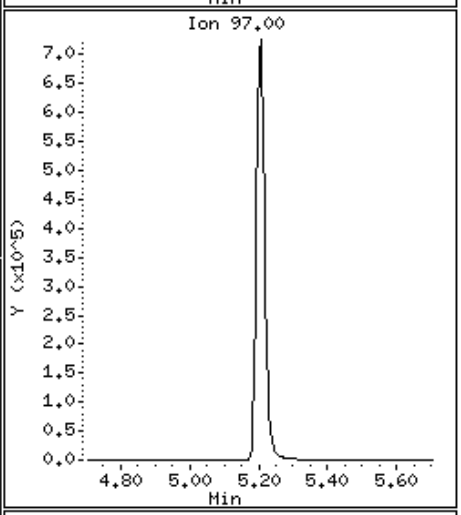


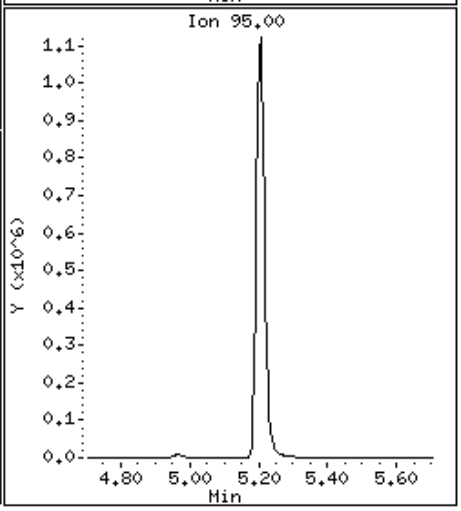












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062626.D

Date : 26-JUN-2023 21:19

Client ID: HS230611712-08

Instrument: voa6.i

Sample Info: HS23061712-08;HS230611712-08;;;

Purge Volume: 5.0

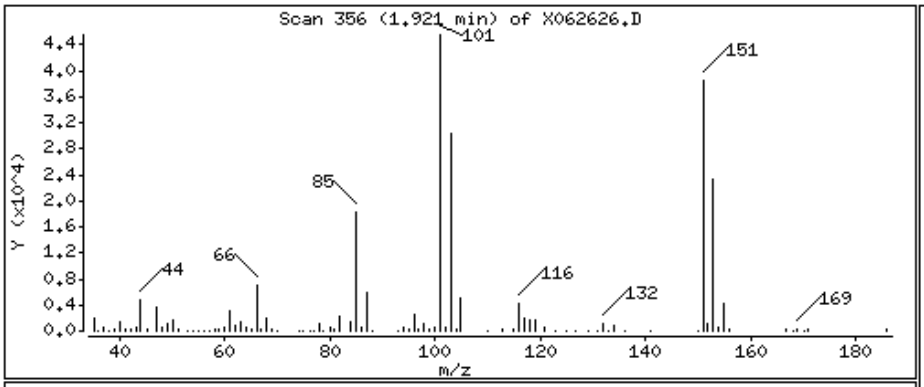
Operator: PC

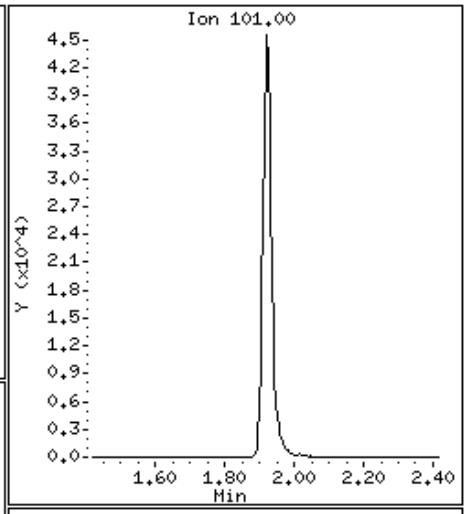
Column phase: DB624

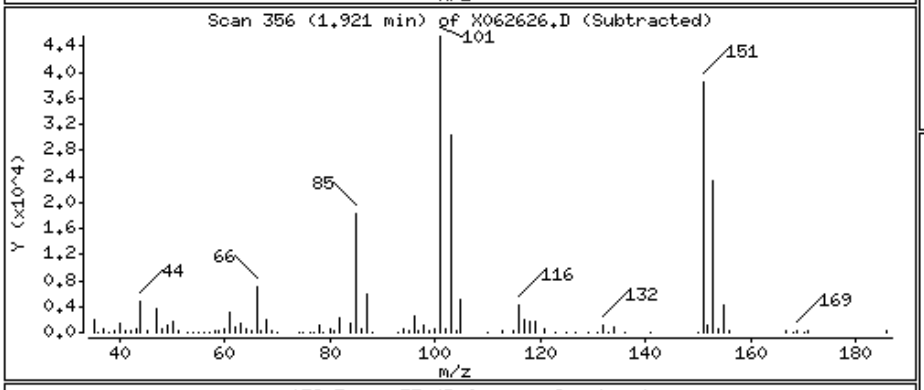
Column diameter: 0.18

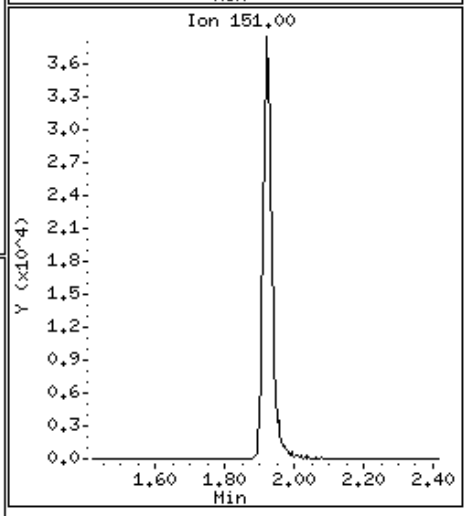
138 Freon TF

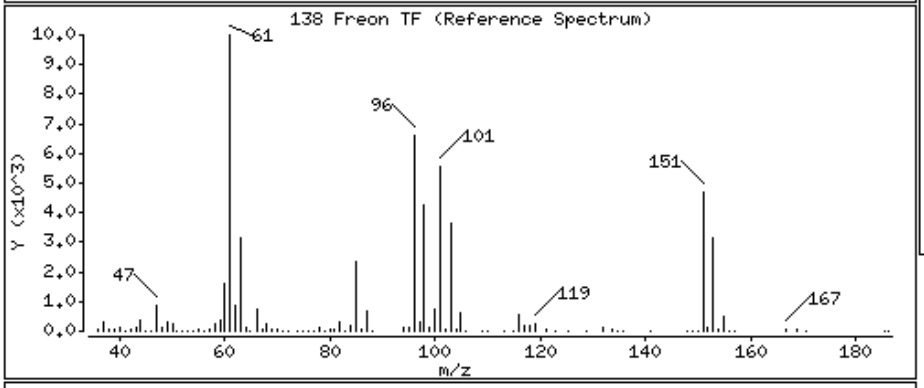
Concentration: 511.23 ug/l

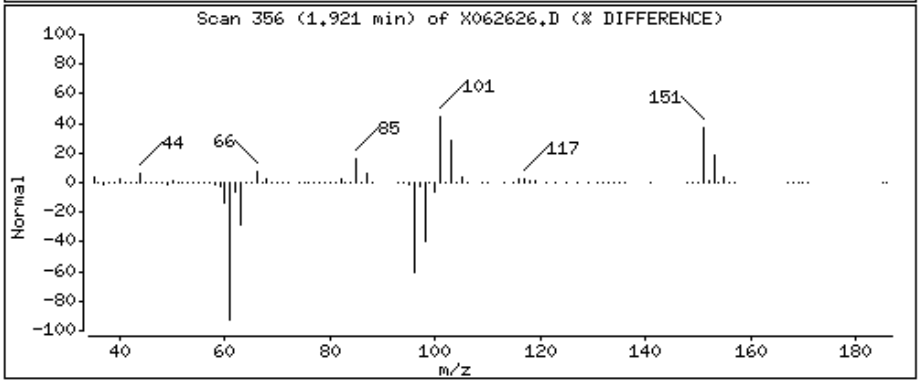












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Inj Date : 26-JUN-2023 21:19
InstruID : voa6.i
LabSampID : HS23061712-08

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062627.D Page 1
Report Date: 06-Jul-2023 12:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062627.D
Lab Smp Id: HS23061712-08 Client Smp ID: HS230611712-08
Inj Date : 26-JUN-2023 21:40
Operator : PC Inst ID: voa6.i
Smp Info : HS23061712-08;HS230611712-08;;;
Misc Info : V6;WATER;0;200;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\8260W.m
Meth Date : 06-Jul-2023 12:04 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 25
Dil Factor: 200.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	200.000	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	4.181	4.177	(1.000)	474194	50.0000	
	27 cis-1,2-Dichloroethene	96	3.529	3.525	(0.844)	232070	45.3015	9060.30
$	30 Dibromofluoromethane	113	4.099	4.095	(0.980)	199476	47.0826	47.08
	33 1,2-Dichloroethane	62	4.564	4.552	(0.919)	18897	3.35649	671.29(a)
$	35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	207492	45.3111	45.31
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	670530	50.0000	
	38 Trichloroethene	130	5.205	5.205	(1.048)	223326	46.9611	9392.21
*	47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	600181	50.0000	
$	48 Toluene-d8	98	6.386	6.385	(0.833)	780505	51.4373	51.43
$	69 4-Bromofluorobenzene	95	8.691	8.687	(1.133)	276911	47.2276	47.22
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	321045	50.0000	
M	94 1,2-Dichloroethylene (total)	96				232070	45.3015	9060.30
	138 Freon TF	101	1.921	1.917	(0.459)	10118	3.13512	627.02(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01201566

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062627.D

Date : 26-JUN-2023 21:40

Client ID: HS230611712-08

Instrument: voa6.i

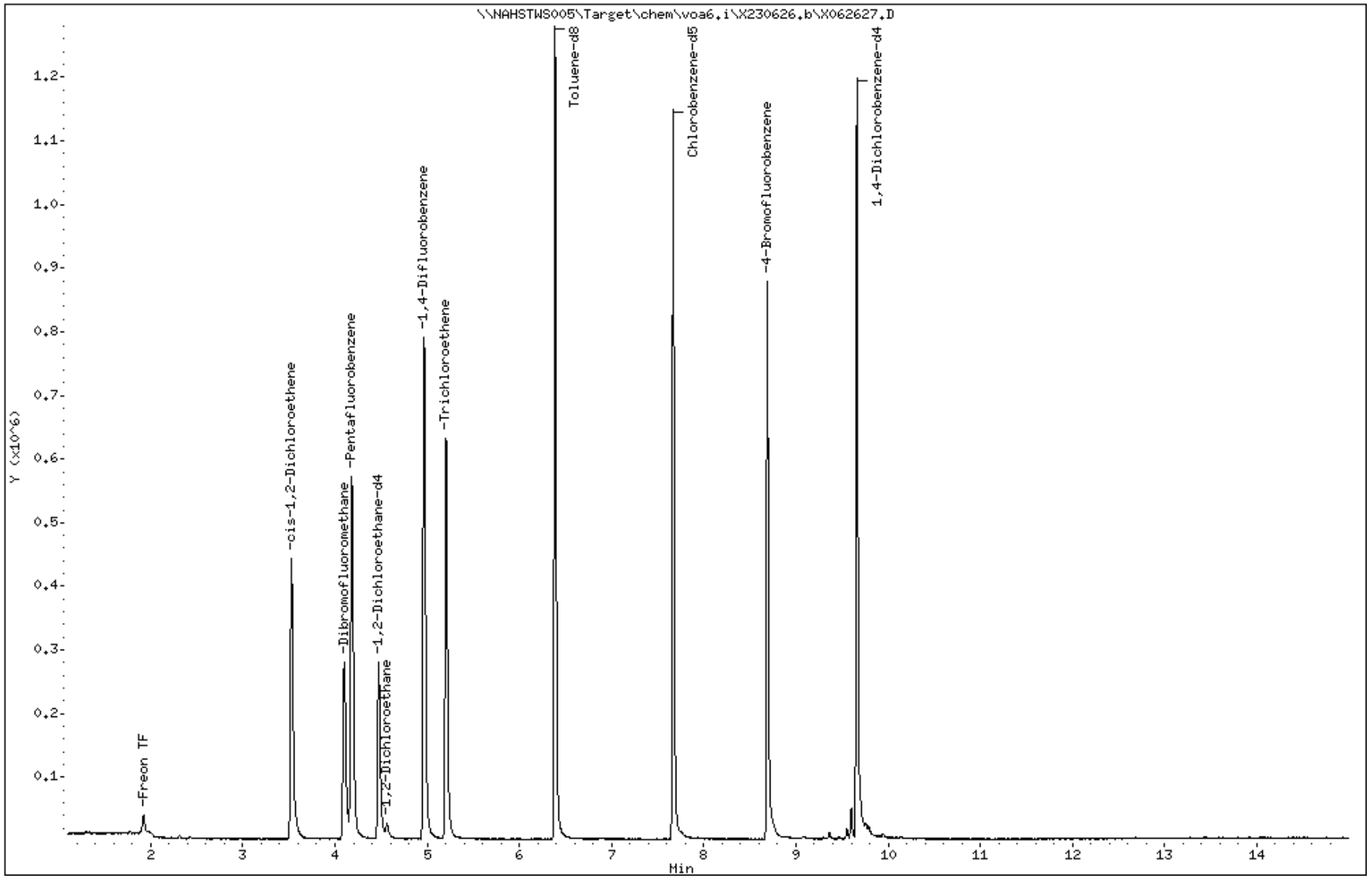
Sample Info: HS23061712-08;HS230611712-08;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Date : 26-JUN-2023 21:40

Client ID: HS230611712-08

Instrument: voa6.i

Sample Info: HS23061712-08;HS230611712-08;;;

Purge Volume: 5.0

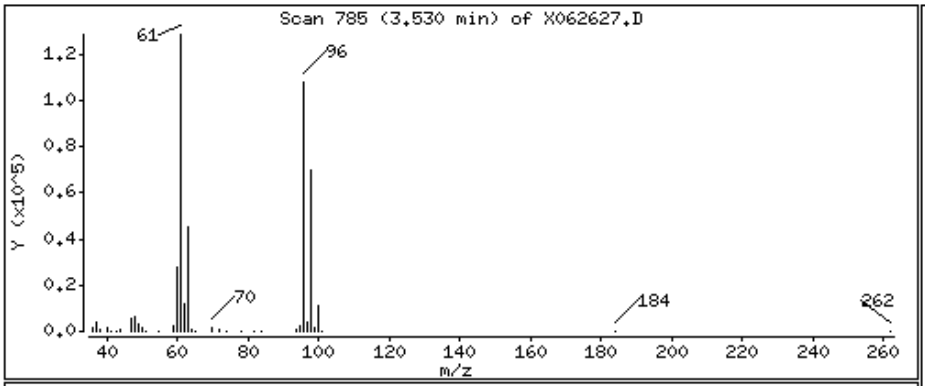
Operator: PC

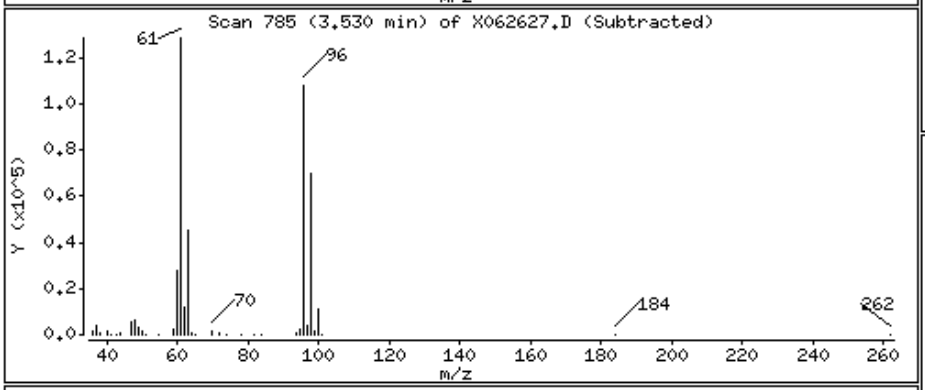
Column phase: DB624

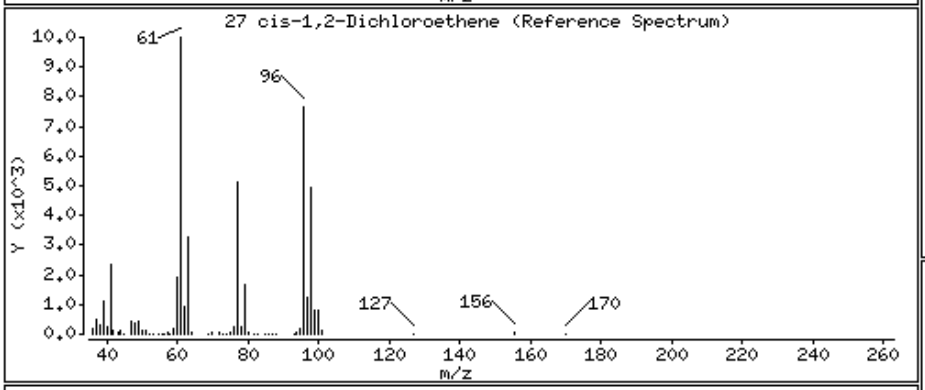
Column diameter: 0.18

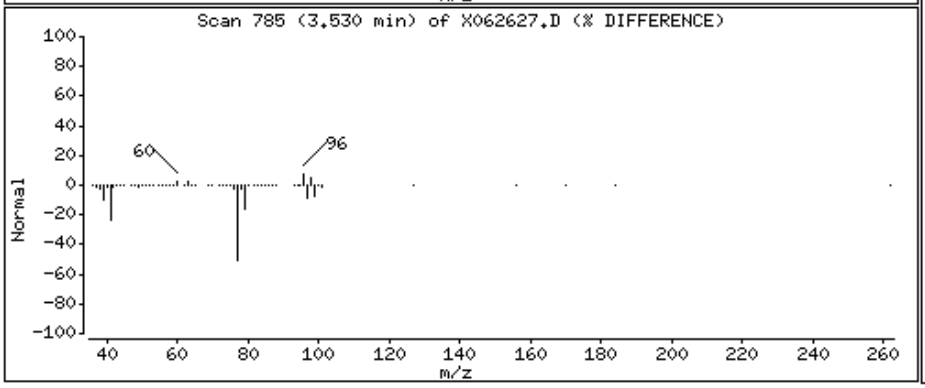
27 cis-1,2-Dichloroethene

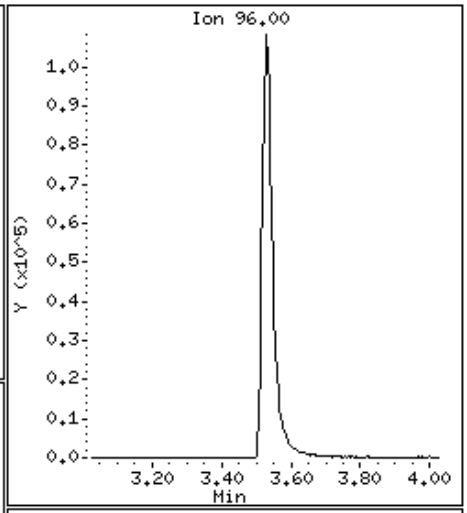
Concentration: 9060.30 ug/l

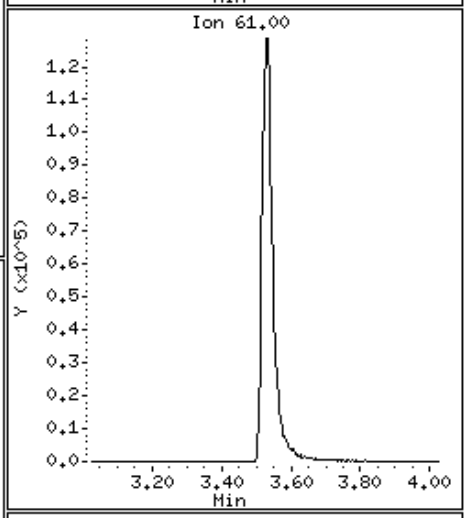


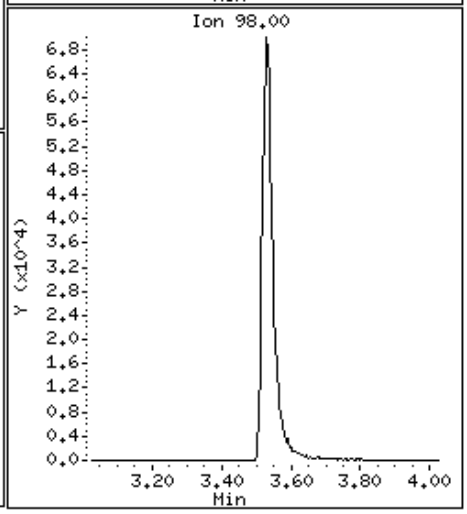












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062627.D

Date : 26-JUN-2023 21:40

Client ID: HS230611712-08

Instrument: voa6.i

Sample Info: HS23061712-08;HS230611712-08;;;

Purge Volume: 5.0

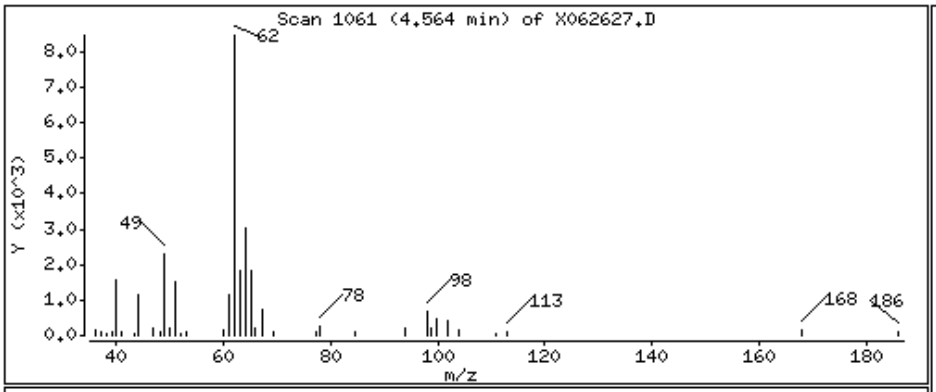
Operator: PC

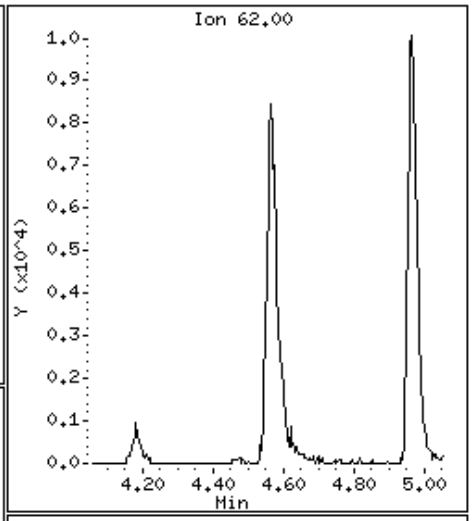
Column phase: DB624

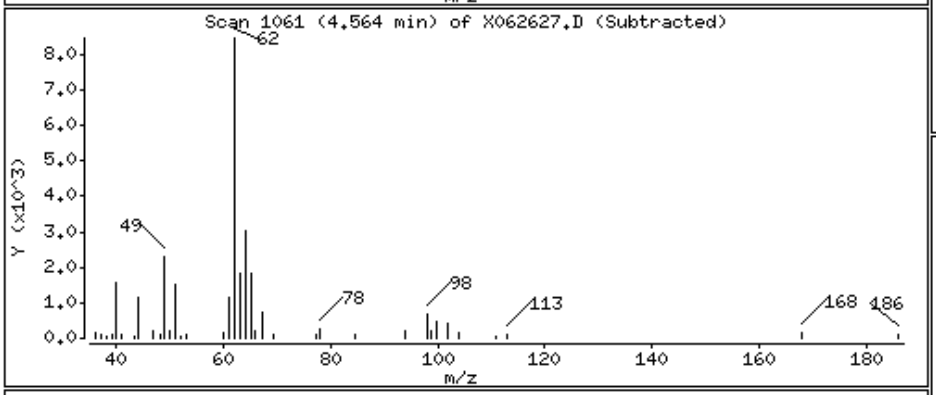
Column diameter: 0.18

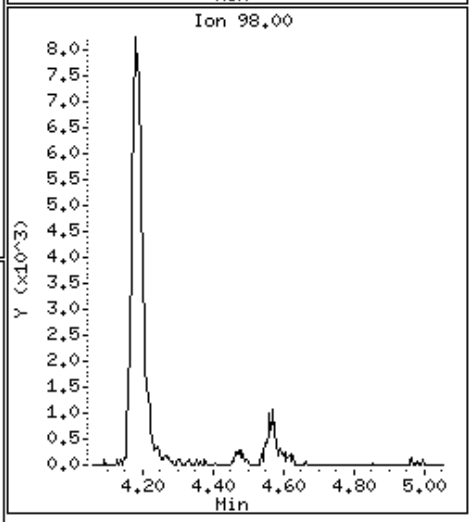
33 1,2-Dichloroethane

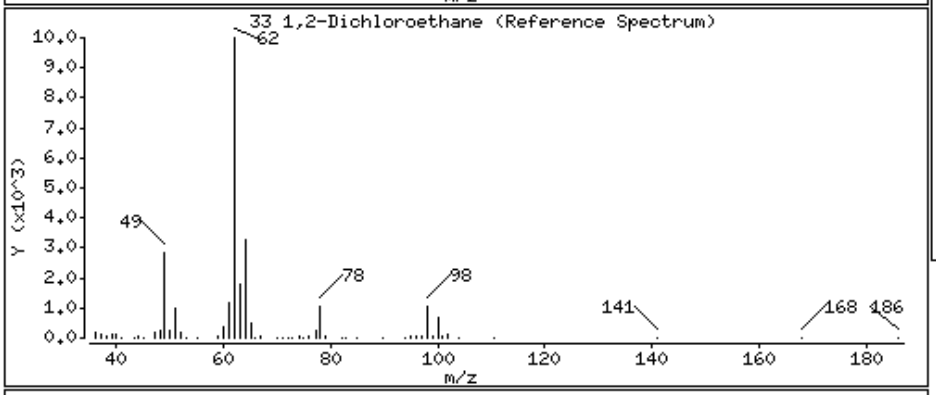
Concentration: 671.29 ug/l

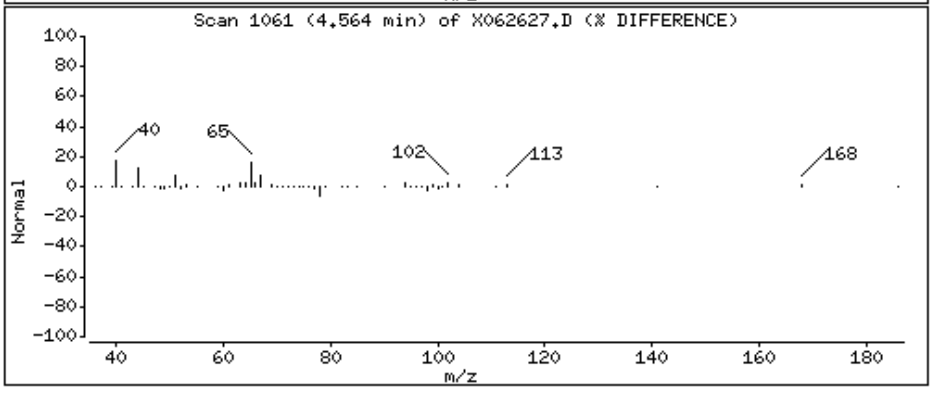












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062627.D

Date : 26-JUN-2023 21:40

Client ID: HS230611712-08

Instrument: voa6.i

Sample Info: HS23061712-08;HS230611712-08;;;

Purge Volume: 5.0

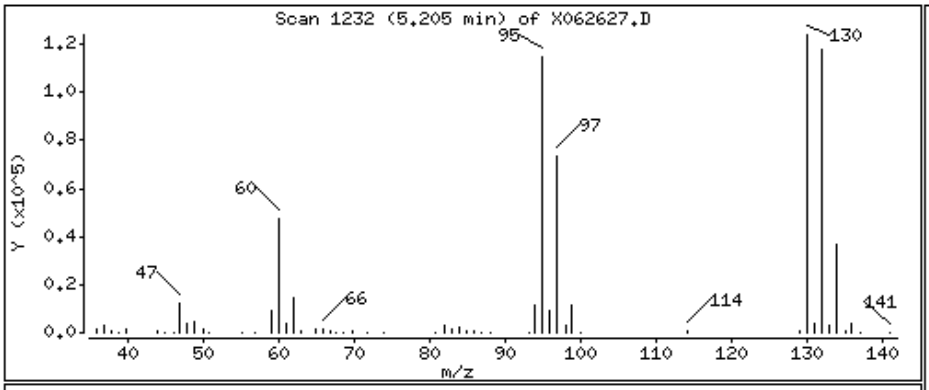
Operator: PC

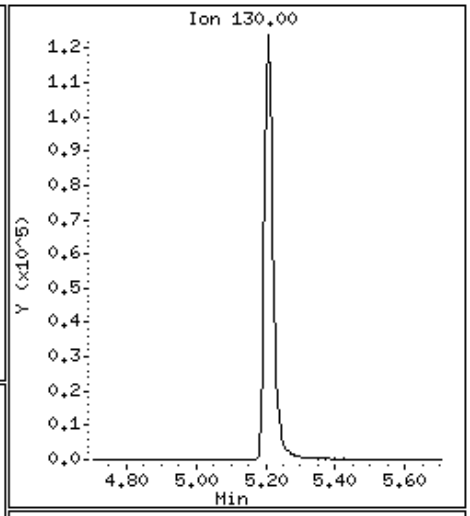
Column phase: DB624

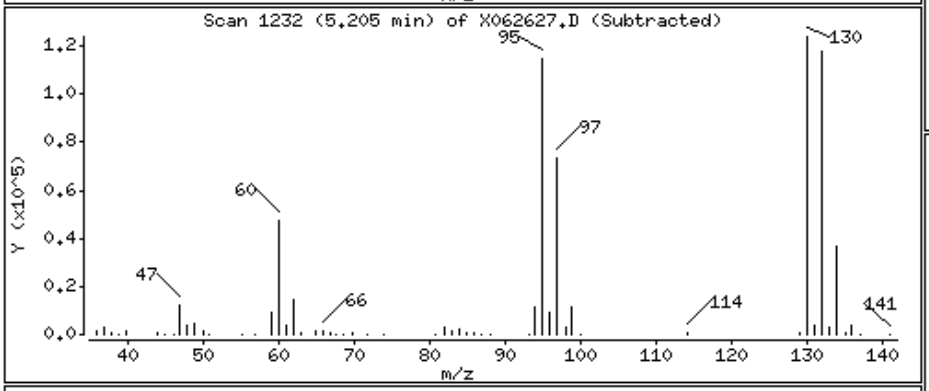
Column diameter: 0.18

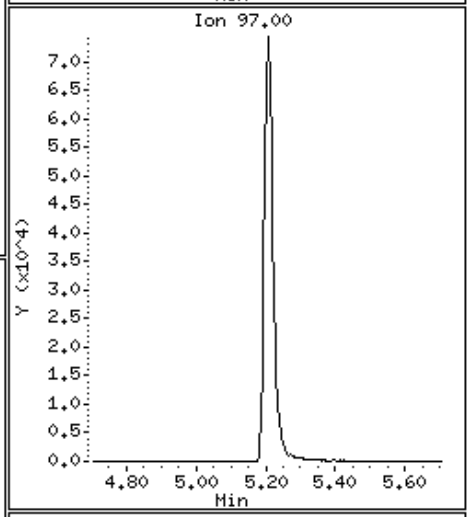
38 Trichloroethene

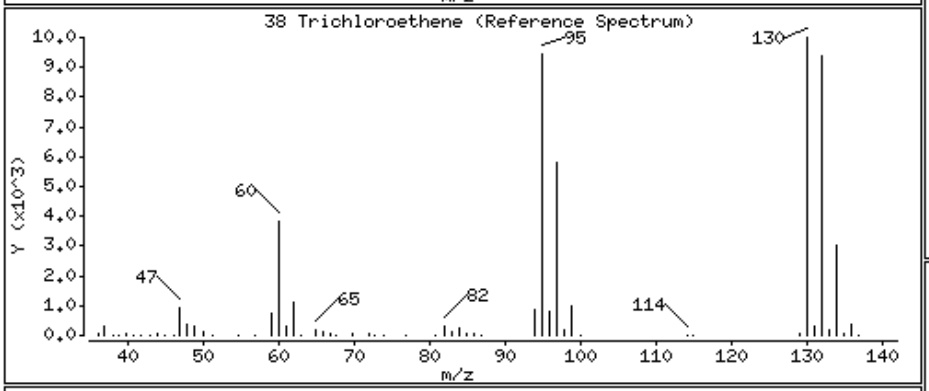
Concentration: 9392.21 ug/l

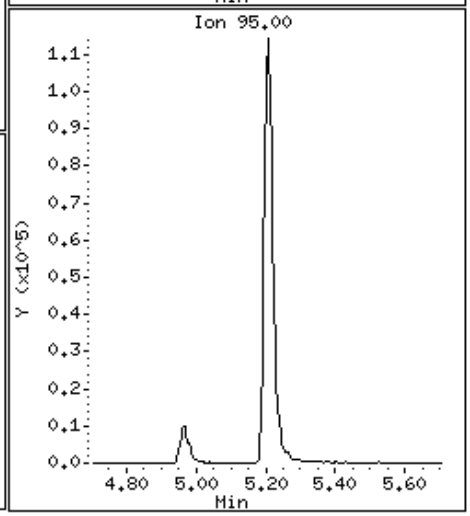


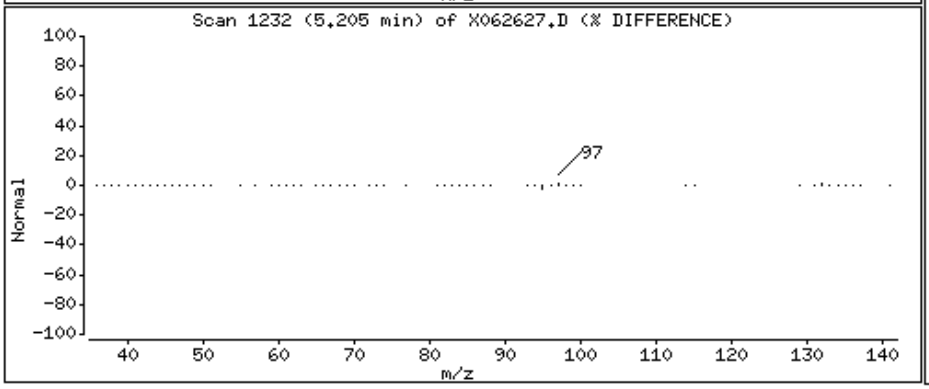












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Date : 26-JUN-2023 21:40

Client ID: HS230611712-08

Instrument: voa6.i

Sample Info: HS23061712-08;HS230611712-08;;;

Purge Volume: 5.0

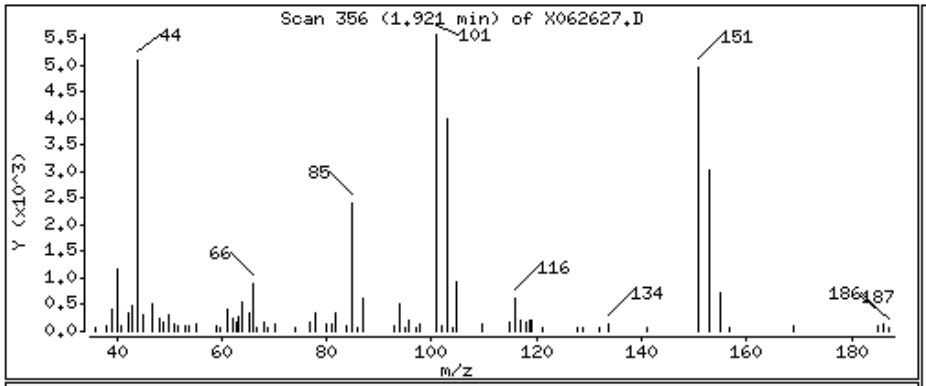
Operator: PC

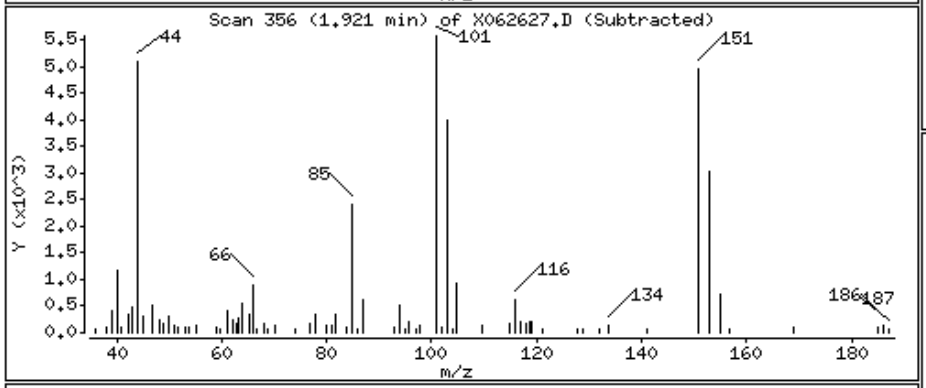
Column phase: DB624

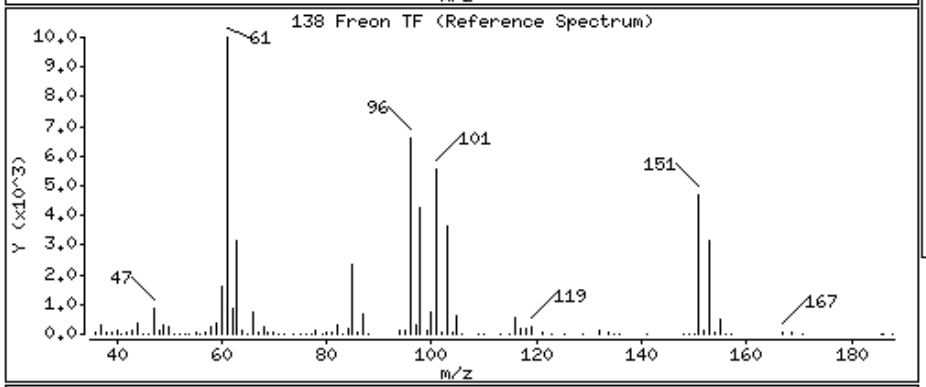
Column diameter: 0.18

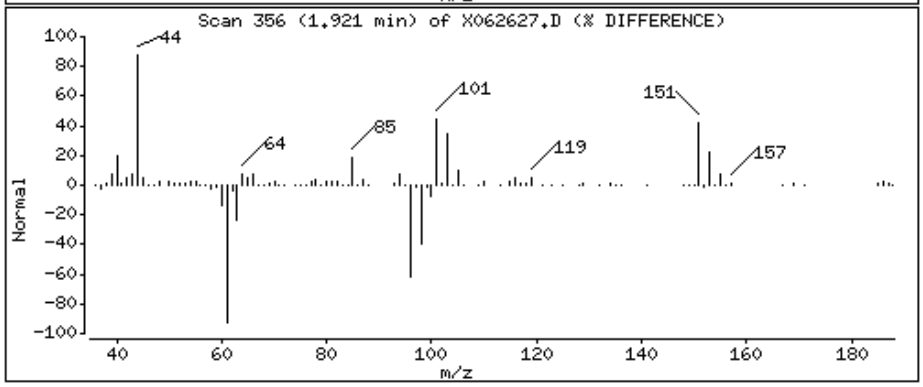
138 Freon TF

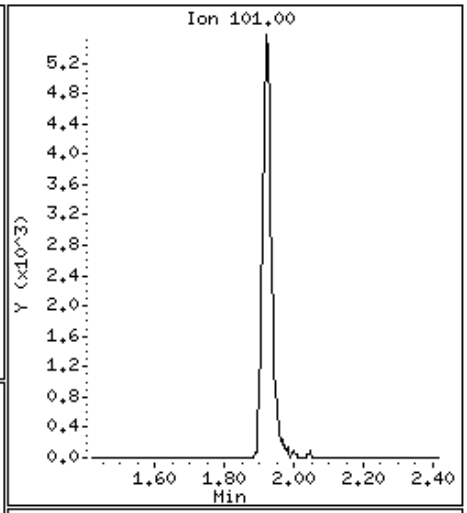
Concentration: 627.02 ug/l

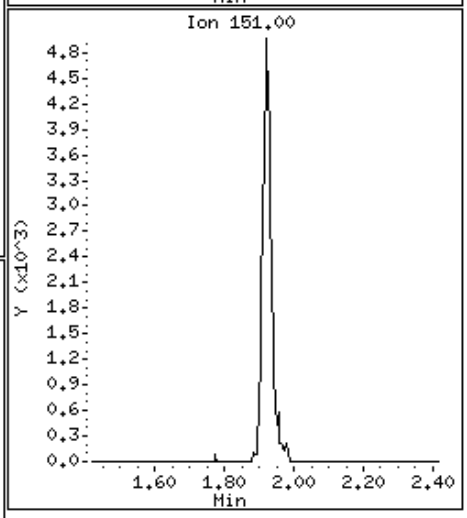












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062627.D
Inj Date : 26-JUN-2023 21:40
InstruID : voa6.i
LabSampID : HS23061712-08

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062628.D Page 1
Report Date: 06-Jul-2023 12:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062628.D
Lab Smp Id: HS23061712-07 Client Smp ID: HS230611712-07
Inj Date : 26-JUN-2023 22:01
Operator : PC Inst ID: voa6.i
Smp Info : HS23061712-07;HS230611712-07;;;
Misc Info : V6;WATER;0;25;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\8260W.m
Meth Date : 06-Jul-2023 12:04 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 26
Dil Factor: 25.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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	4.181	4.177	(1.000)	448266	50.0000	
	5	Vinyl Chloride	62	1.149	1.149	(0.275)	2696	0.57267	14.31(a)
	17	Methylene Chloride	84	2.307	2.307	(0.552)	14654	2.95609	73.90(a)
	20	trans-1,2-Dichloroethene	96	2.547	2.532	(0.609)	11597	2.76158	69.03(a)
	22	1,1-Dichloroethane	63	2.933	2.922	(0.701)	4863	0.64282	16.07(a)
	27	cis-1,2-Dichloroethene	96	3.525	3.525	(0.843)	5241180	1082.29	27057.22(A)
	28	Chloroform	83	3.915	3.908	(0.936)	13855	1.70158	42.53(a)
$	30	Dibromofluoromethane	113	4.099	4.095	(0.980)	189446	47.3031	47.30
$	35	1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	200246	46.2760	46.27
*	36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	634347	50.0000	
	38	Trichloroethene	130	5.205	5.205	(1.048)	1015957	225.822	5645.54(A)
*	47	Chlorobenzene-d5	117	7.668	7.667	(1.000)	565484	50.0000	
$	48	Toluene-d8	98	6.386	6.385	(0.833)	738976	51.6886	51.68
	50	Toluene	91	6.453	6.445	(0.842)	10871	0.65484	16.37(a)
	56	Tetrachloroethene	164	6.933	6.925	(0.904)	6127	1.79476	44.86(a)
	61	Ethylbenzene	106	7.814	7.799	(1.019)	3492	0.59667	14.91(a)
$	69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	265298	48.0323	48.03
*	70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	302387	50.0000	
M	94	1,2-Dichloroethylene (total)	96				5252777	1085.05	27126.26
	141	Cyclohexane	56	4.129	4.121	(0.987)	23557	4.12257	103.06(a)

138 Freon TF	101	1.921	1.917 (0.459)	879880	255.492	6387.30(A)

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.

01201575

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062628.D

Page 1

Date : 26-JUN-2023 22:01

Client ID: HS230611712-07

Instrument: voa6.i

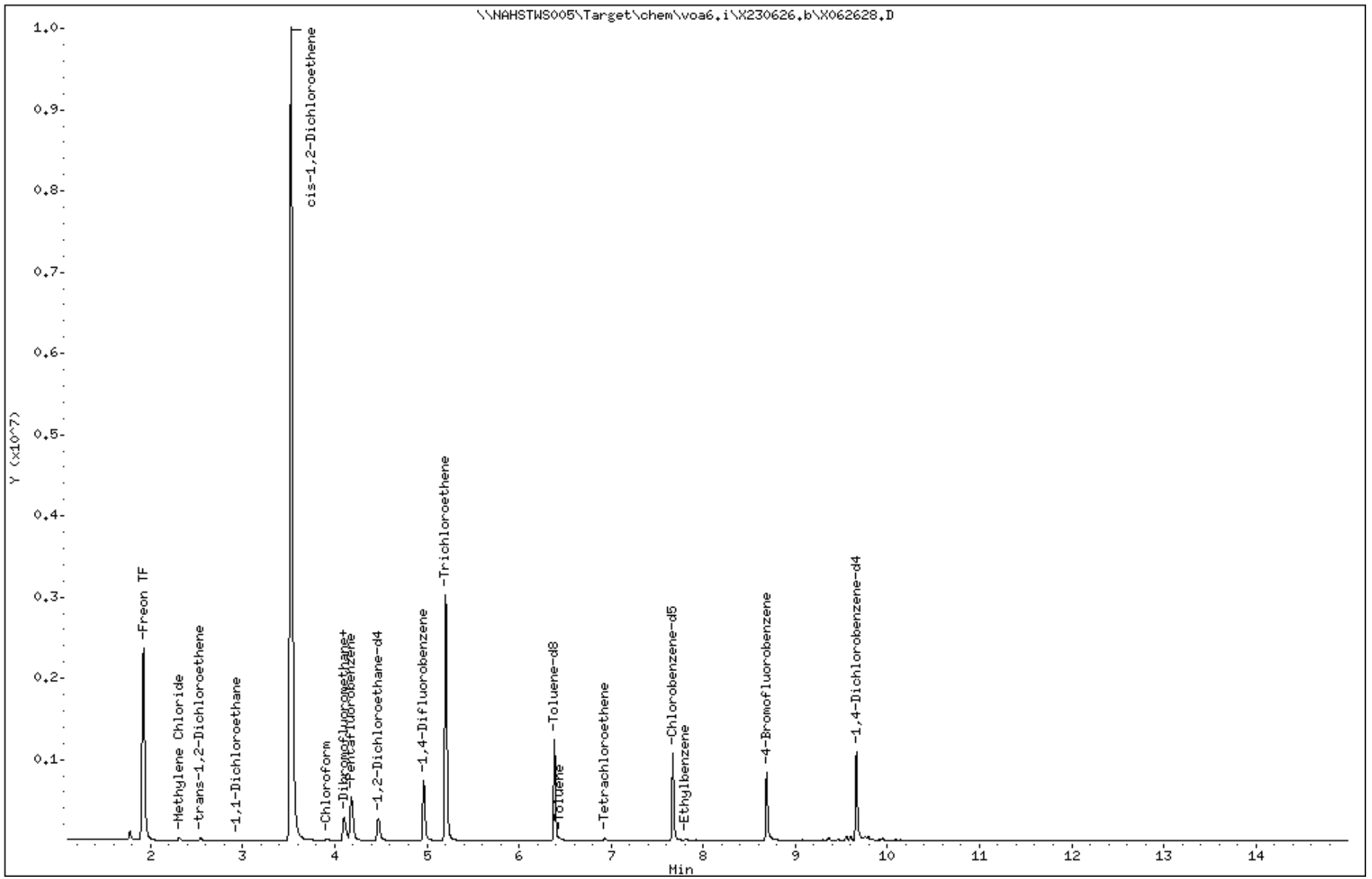
Sample Info: HS23061712-07;HS230611712-07;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062628.D

Date : 26-JUN-2023 22:01

Client ID: HS230611712-07

Instrument: voa6.i

Sample Info: HS23061712-07;HS230611712-07;;;

Purge Volume: 5.0

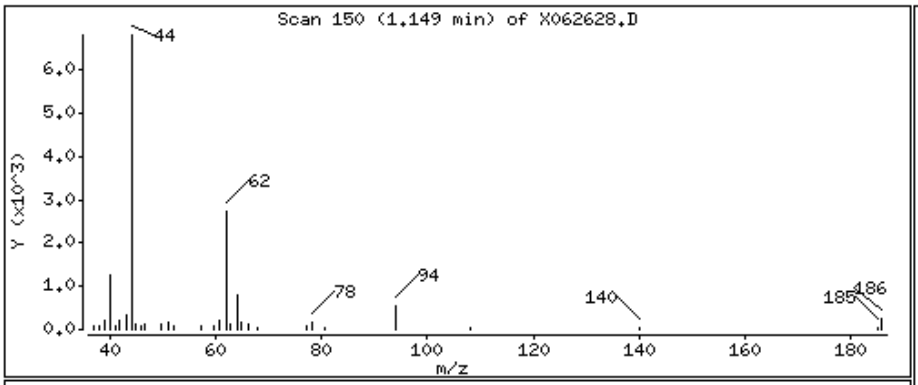
Operator: PC

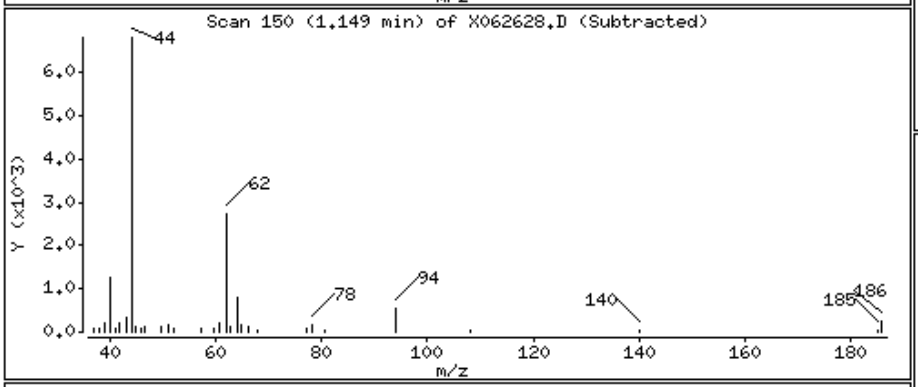
Column phase: DB624

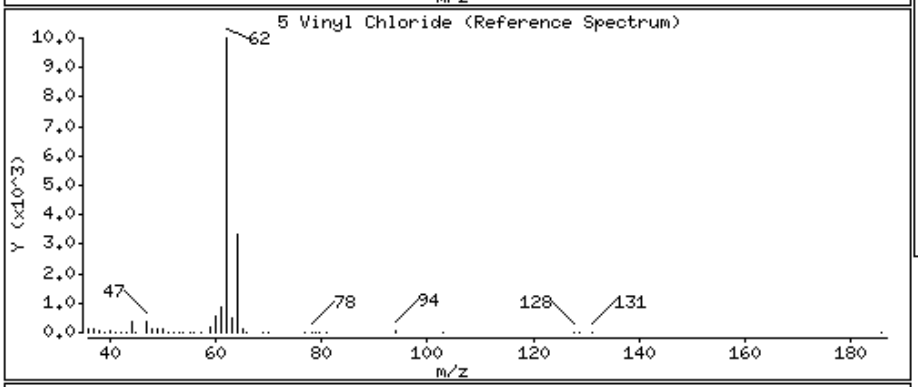
Column diameter: 0.18

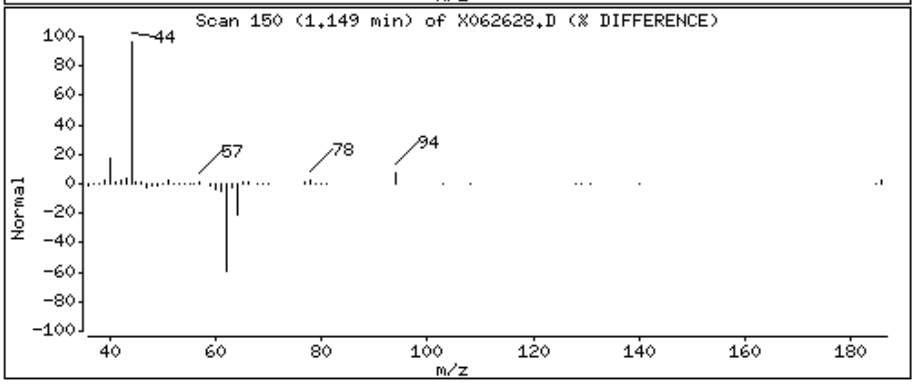
5 Vinyl Chloride

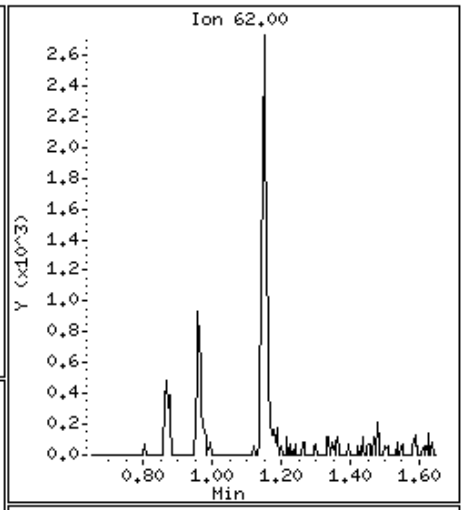
Concentration: 14.31 ug/l

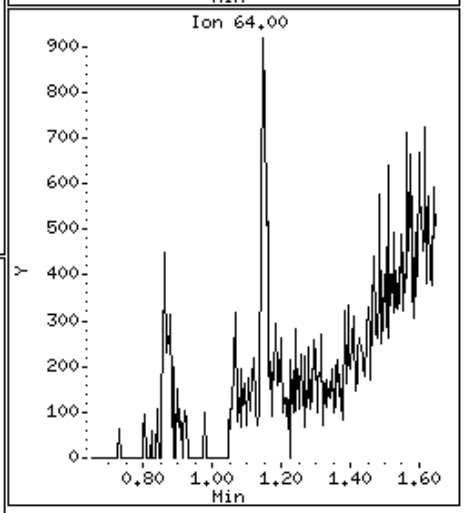












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062628.D

Date : 26-JUN-2023 22:01

Client ID: HS230611712-07

Instrument: voa6.i

Sample Info: HS23061712-07;HS230611712-07;;;

Purge Volume: 5.0

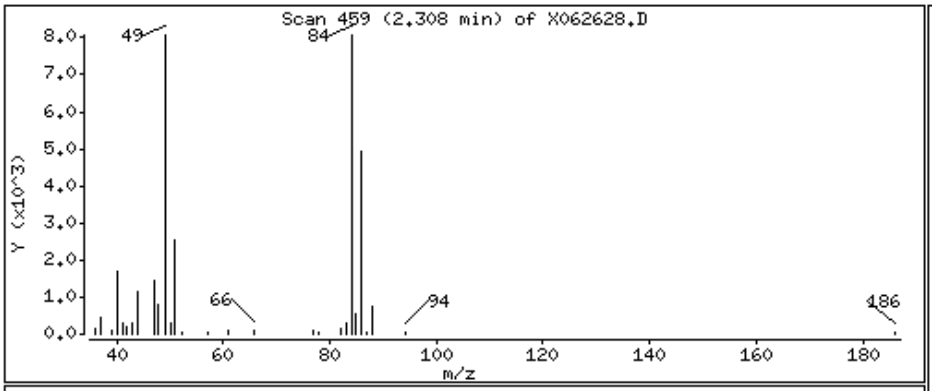
Operator: PC

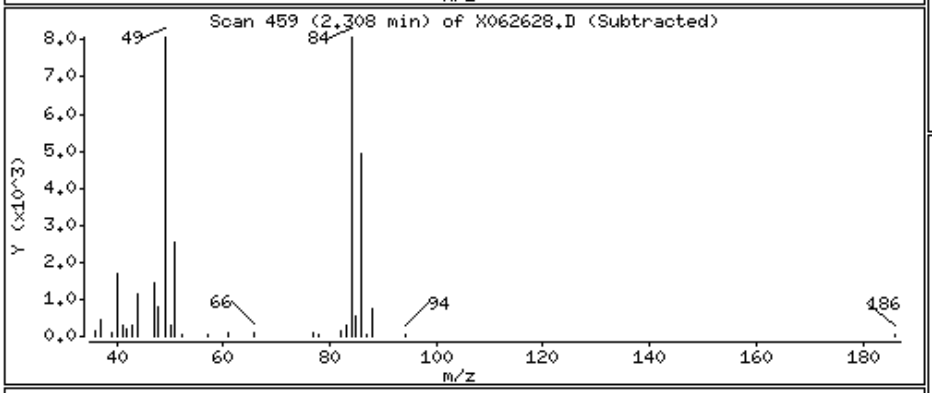
Column phase: DB624

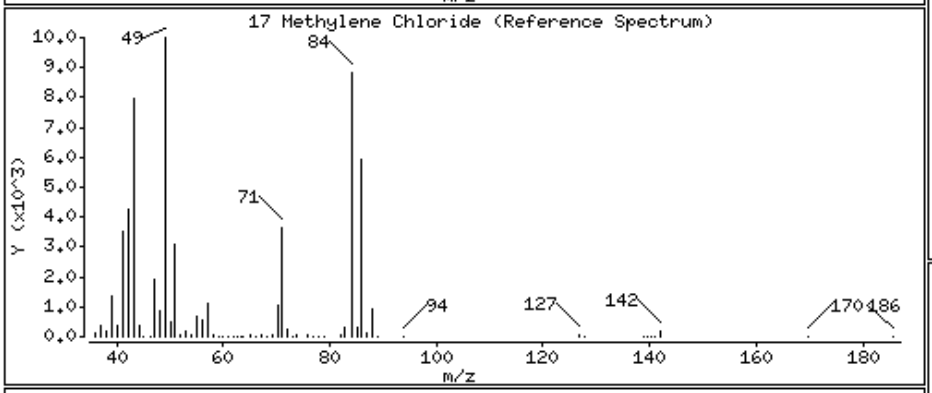
Column diameter: 0.18

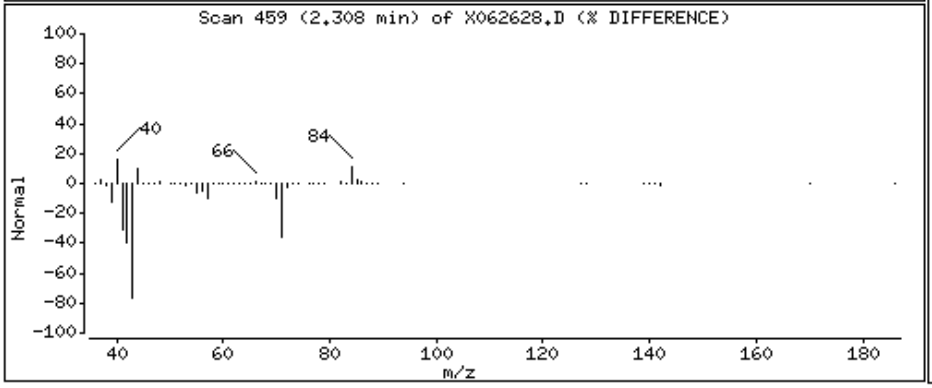
17 Methylene Chloride

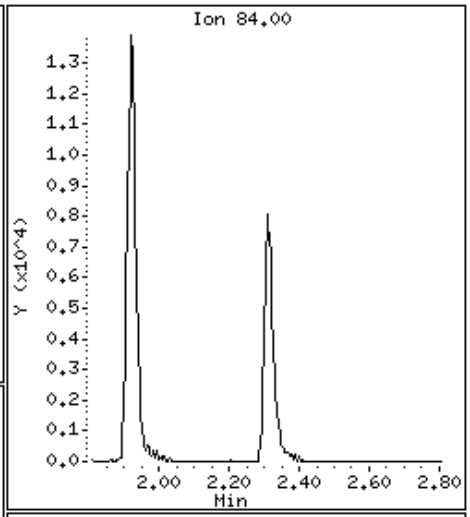
Concentration: 73.90 ug/l

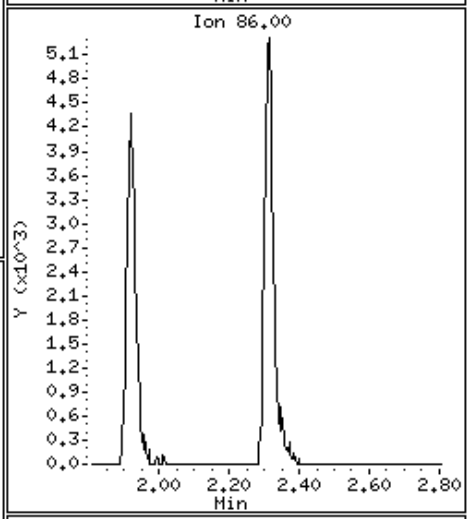


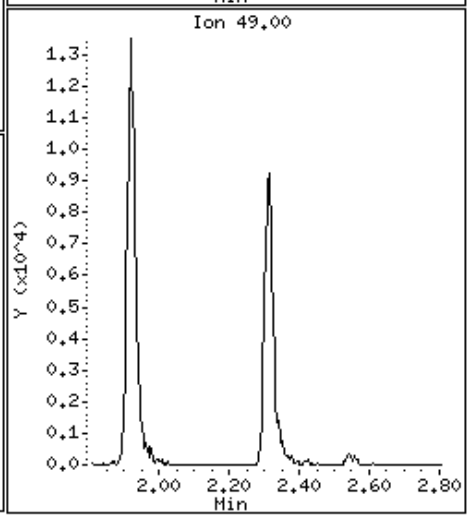












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062628.D

Date : 26-JUN-2023 22:01

Client ID: HS230611712-07

Instrument: voa6.i

Sample Info: HS23061712-07;HS230611712-07;;;

Purge Volume: 5.0

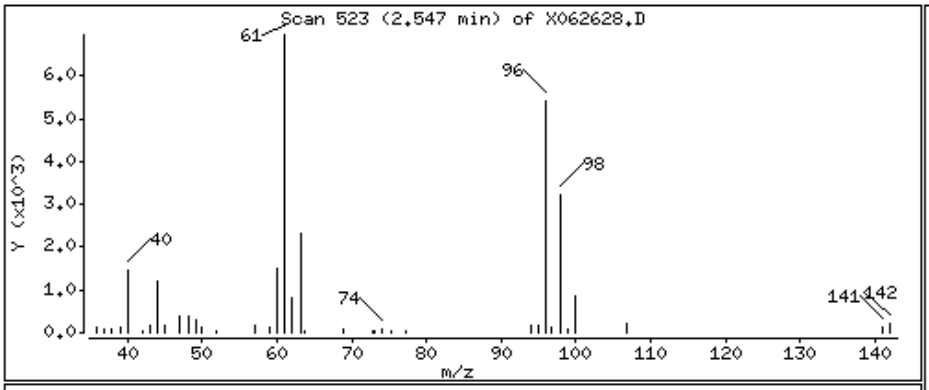
Operator: PC

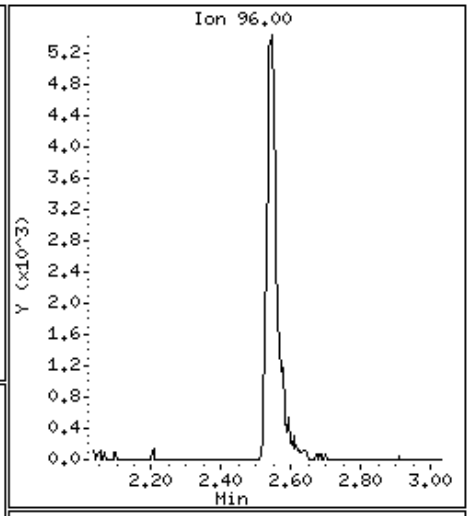
Column phase: DB624

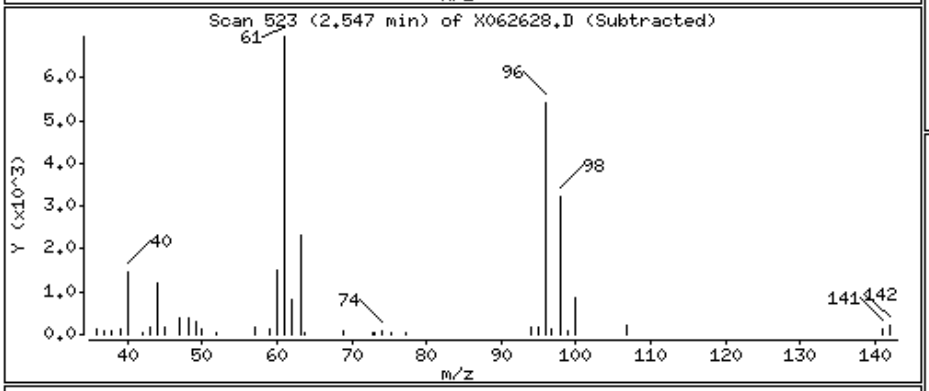
Column diameter: 0.18

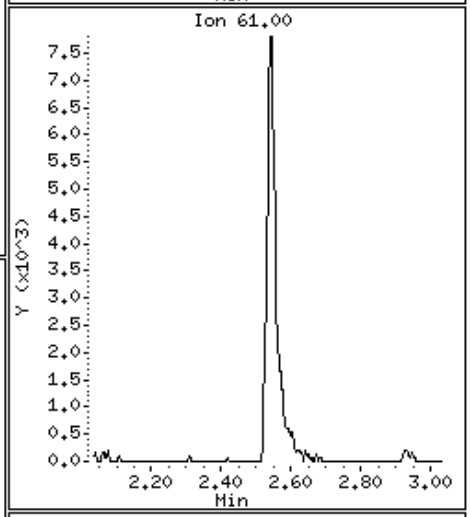
20 trans-1,2-Dichloroethene

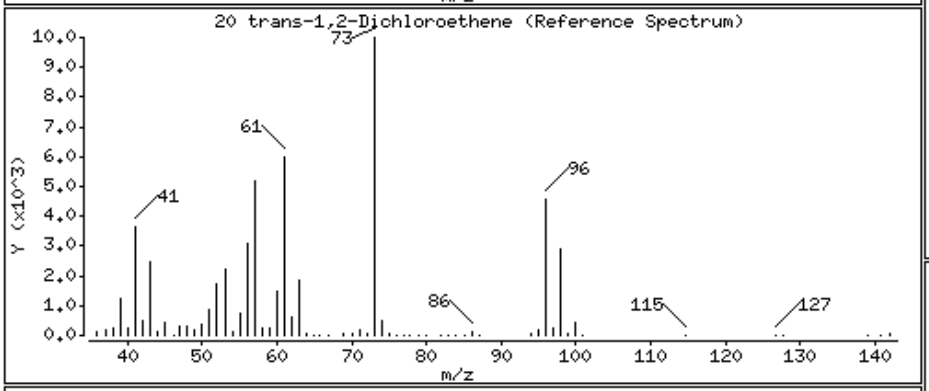
Concentration: 69.03 ug/l

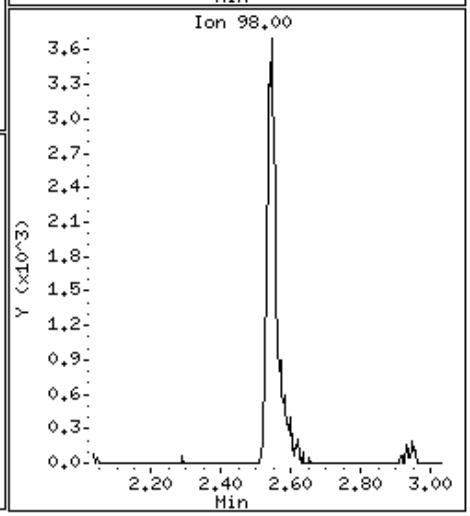


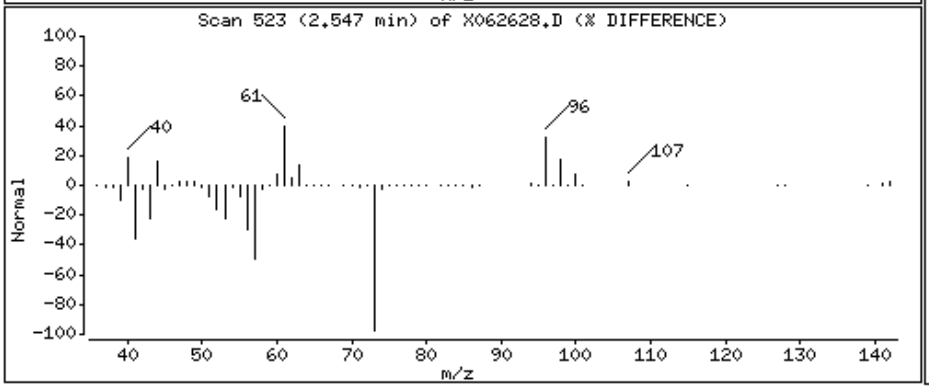












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062628.D Page 5

Date : 26-JUN-2023 22:01

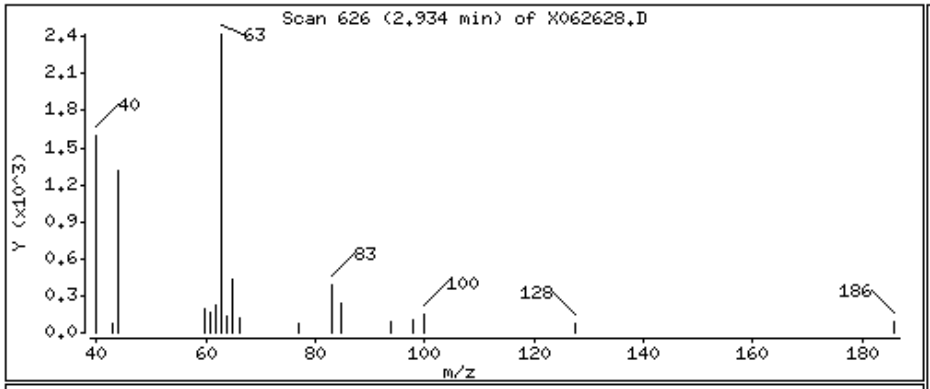
Client ID: HS230611712-07 Instrument: voa6.i

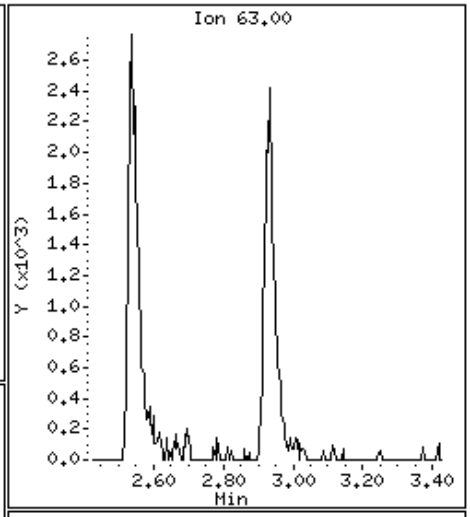
Sample Info: HS23061712-07;HS230611712-07;;;

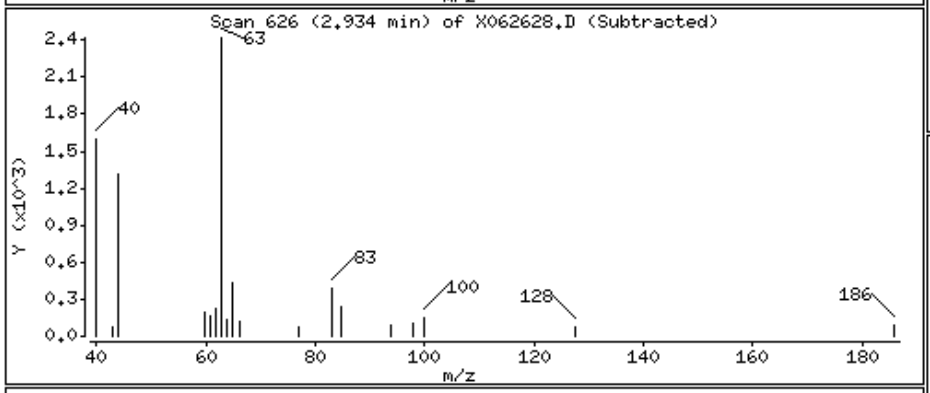
Purge Volume: 5.0 Operator: PC

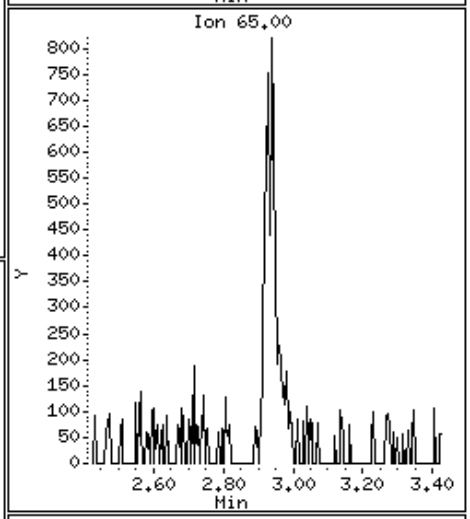
Column phase: DB624 Column diameter: 0.18

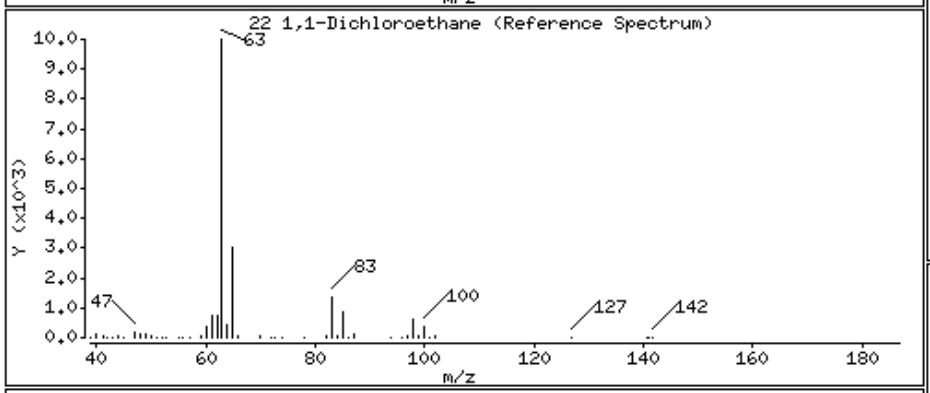
22 1,1-Dichloroethane Concentration: 16.07 ug/l

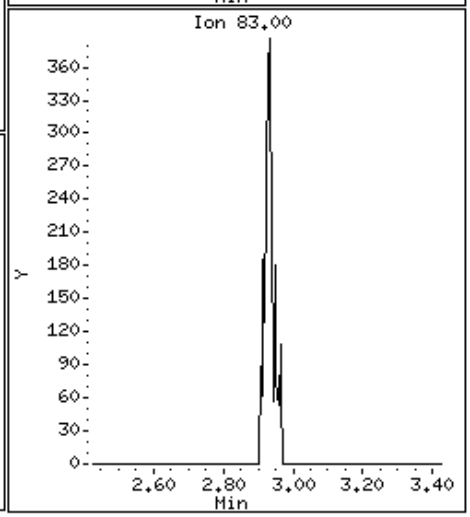


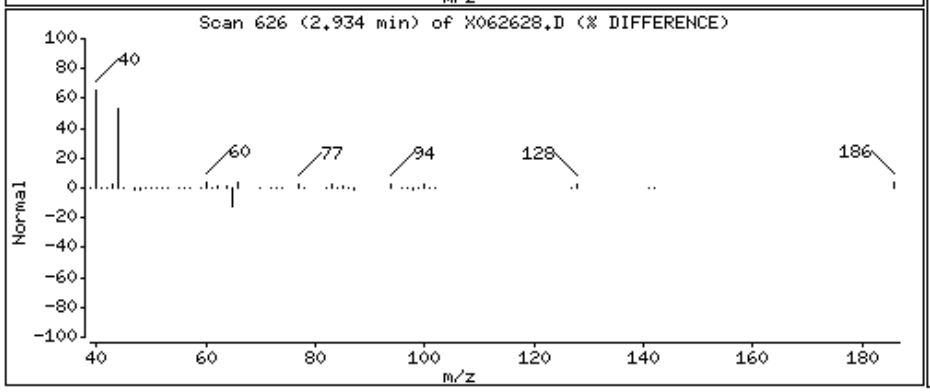












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062628.D Page 6

Date : 26-JUN-2023 22:01

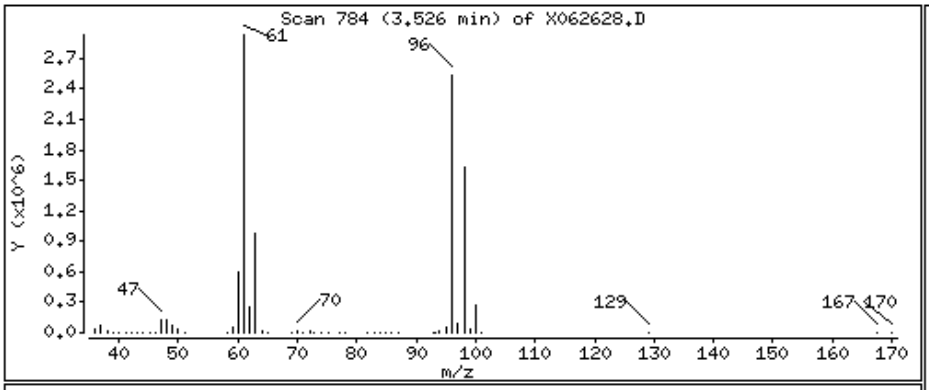
Client ID: HS230611712-07 Instrument: voa6.i

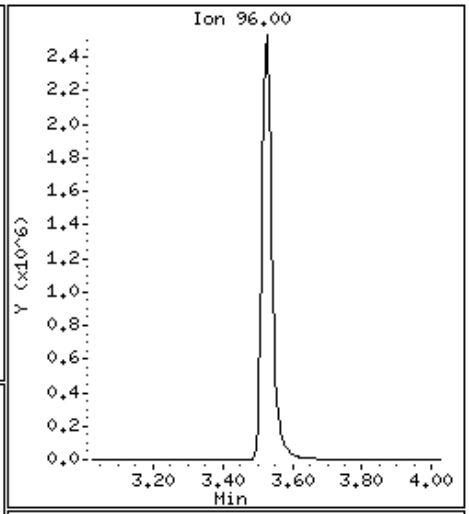
Sample Info: HS23061712-07;HS230611712-07;;;

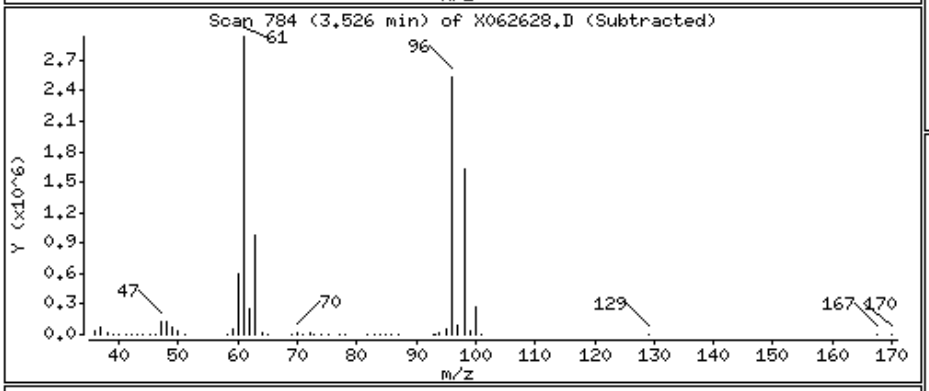
Purge Volume: 5.0 Operator: PC

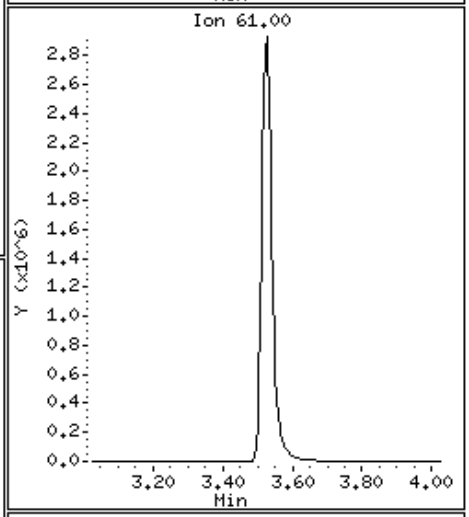
Column phase: DB624 Column diameter: 0.18

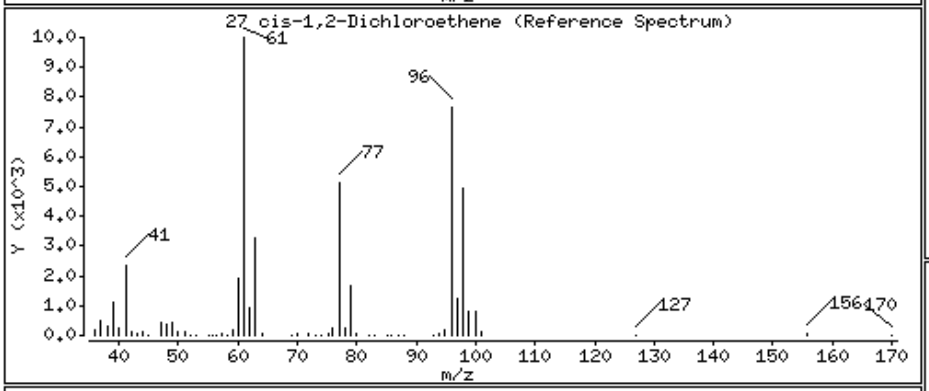
27 cis-1,2-Dichloroethene Concentration: 27057.22 ug/l

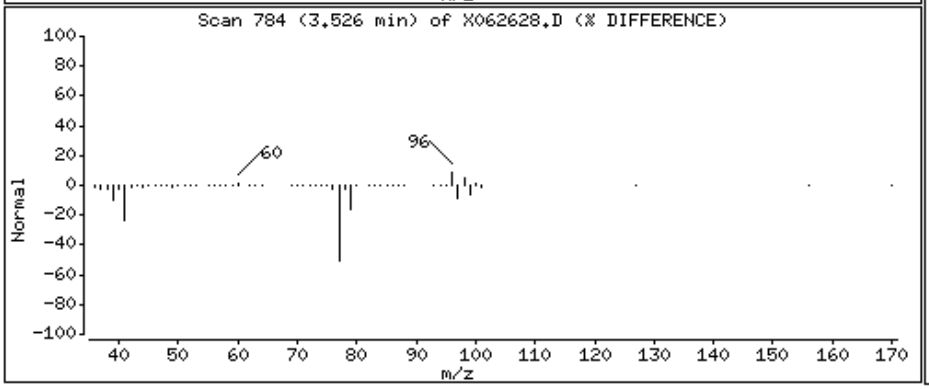


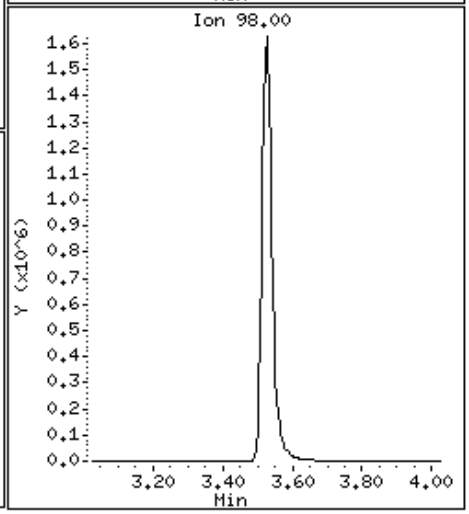












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062628.D Page 7

Date : 26-JUN-2023 22:01

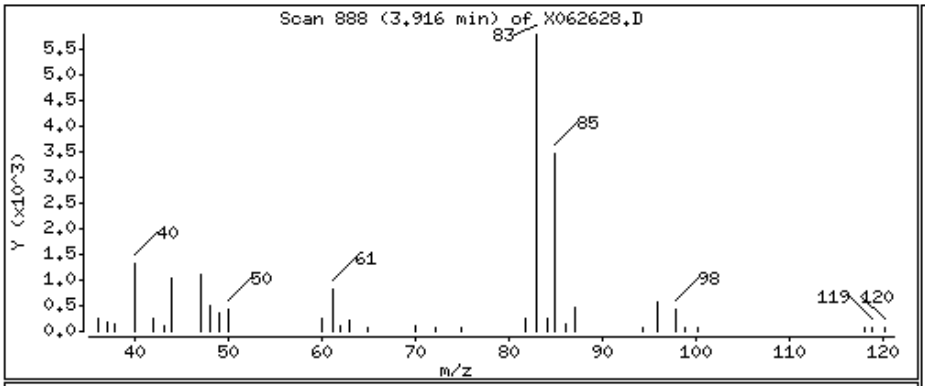
Client ID: HS230611712-07 Instrument: voa6.i

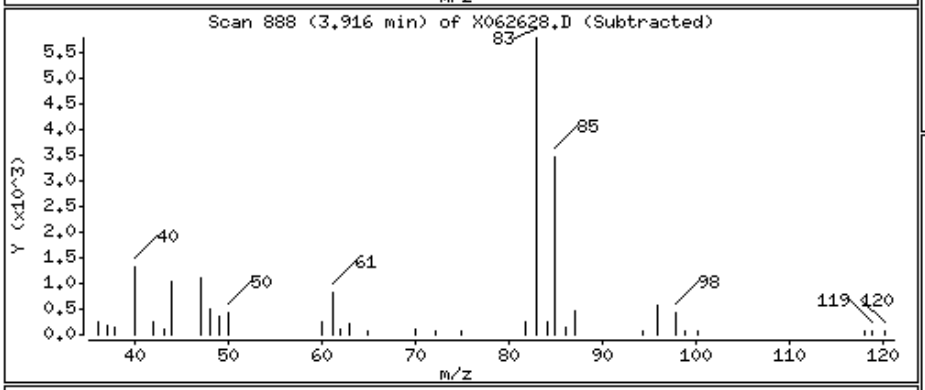
Sample Info: HS23061712-07;HS230611712-07;;;

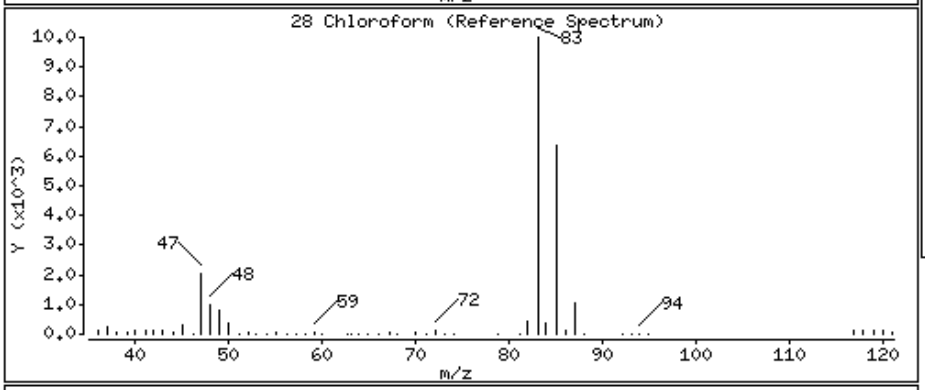
Purge Volume: 5.0 Operator: PC

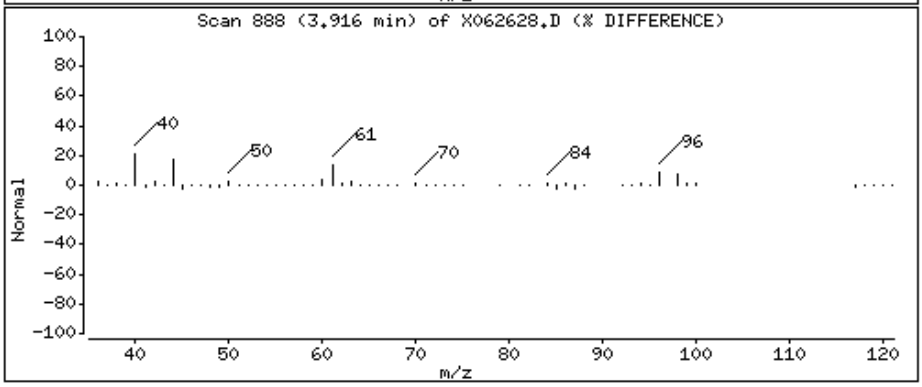
Column phase: DB624 Column diameter: 0.18

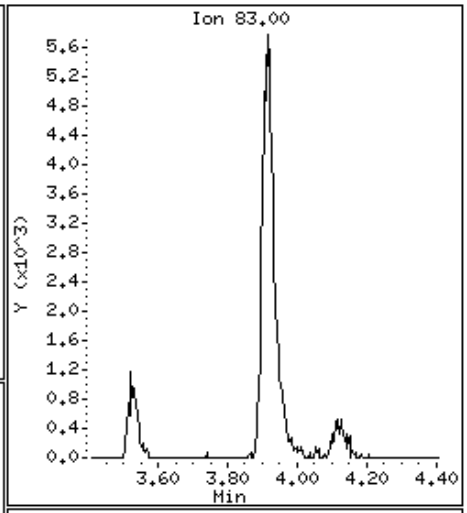
28 Chloroform Concentration: 42.53 ug/l

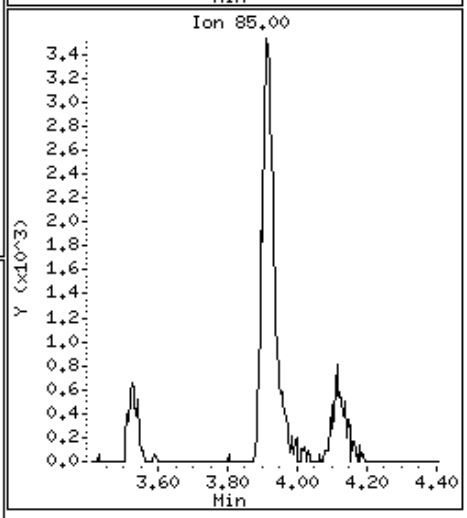












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062628.D Page 8

Date : 26-JUN-2023 22:01

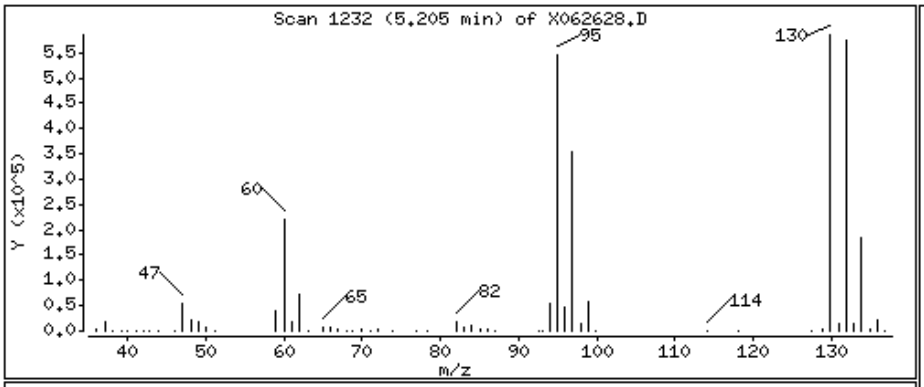
Client ID: HS230611712-07 Instrument: voa6.i

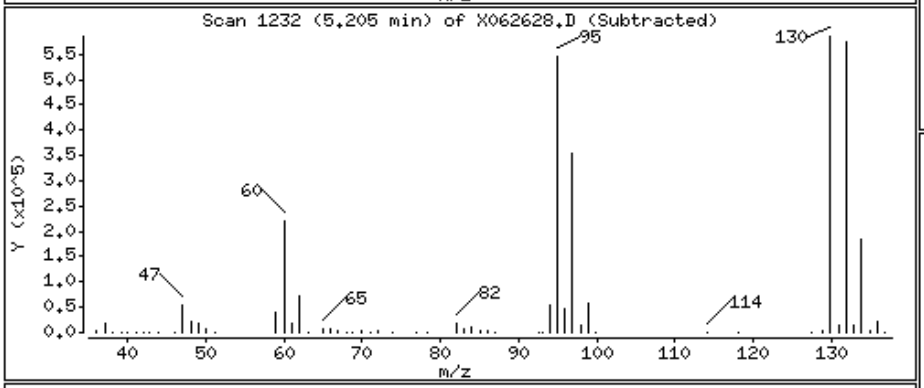
Sample Info: HS23061712-07;HS230611712-07;;;

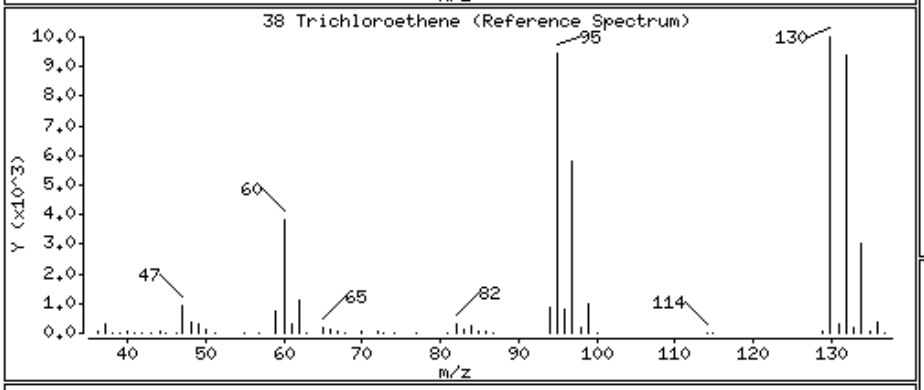
Purge Volume: 5.0 Operator: PC

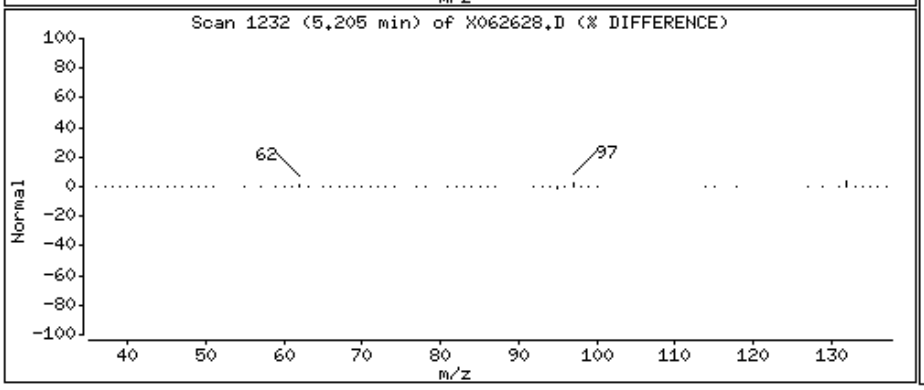
Column phase: DB624 Column diameter: 0.18

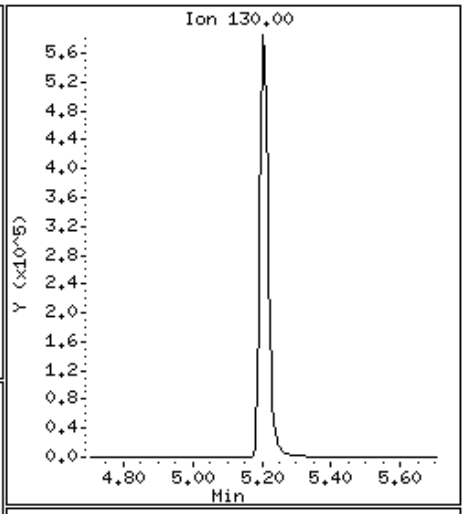
38 Trichloroethene Concentration: 5645.54 ug/l

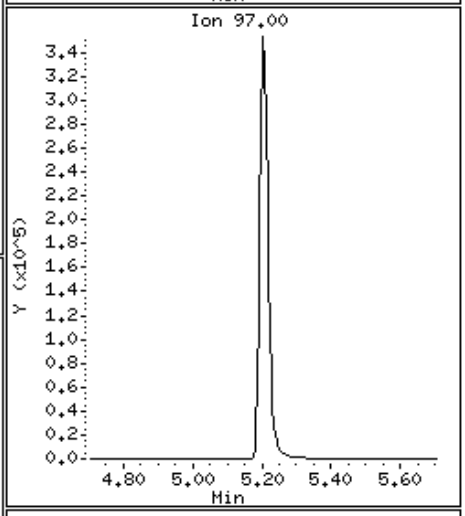


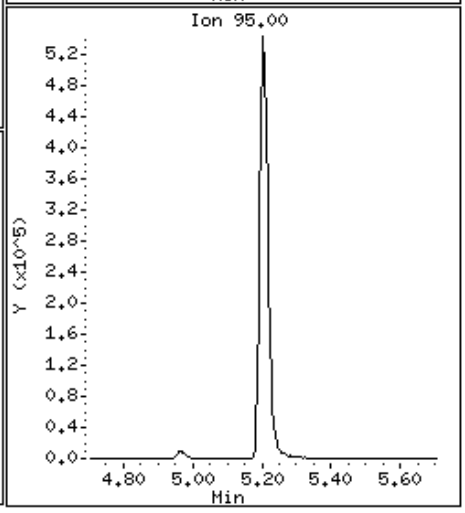












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062628.D

Date : 26-JUN-2023 22:01

Client ID: HS230611712-07

Instrument: voa6.i

Sample Info: HS23061712-07;HS230611712-07;;;

Purge Volume: 5.0

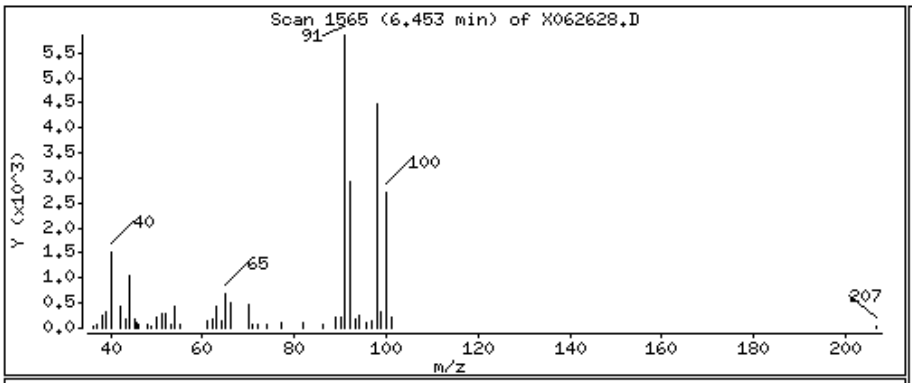
Operator: PC

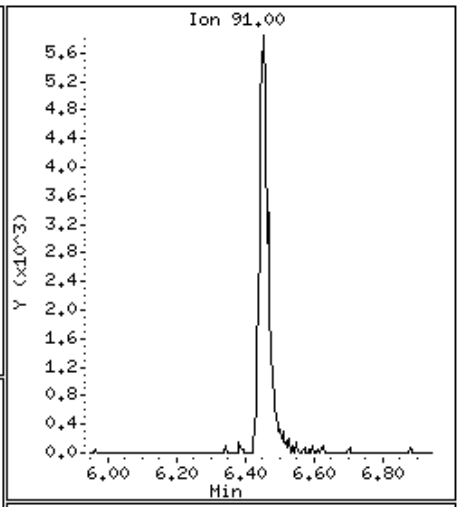
Column phase: DB624

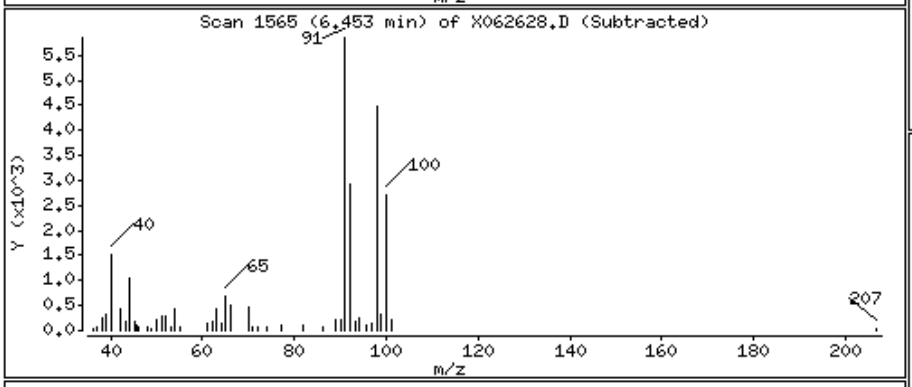
Column diameter: 0.18

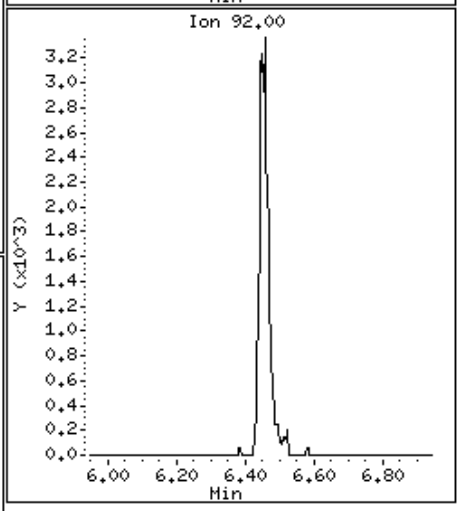
50 Toluene

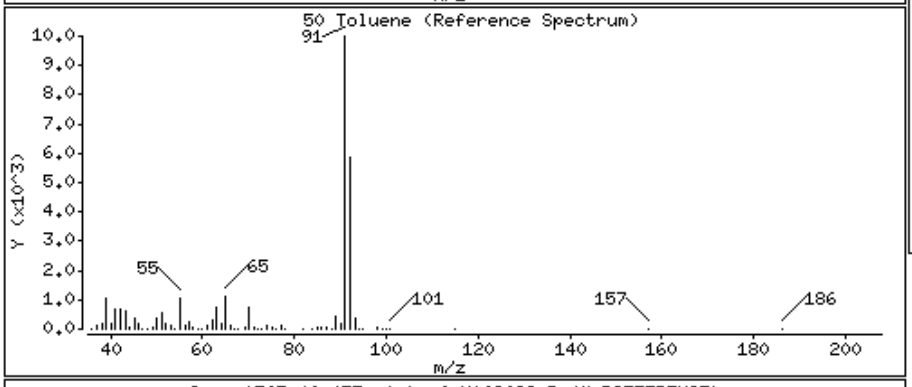
Concentration: 16.37 ug/l

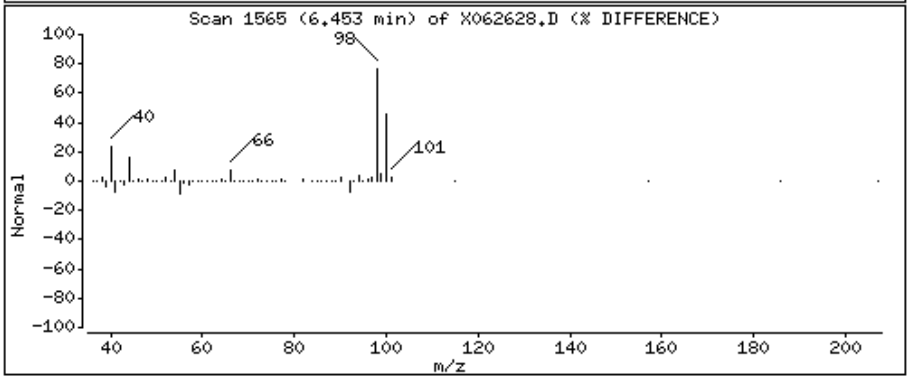












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062628.D

Date : 26-JUN-2023 22:01

Client ID: HS230611712-07

Instrument: voa6.i

Sample Info: HS23061712-07;HS230611712-07;;;

Purge Volume: 5.0

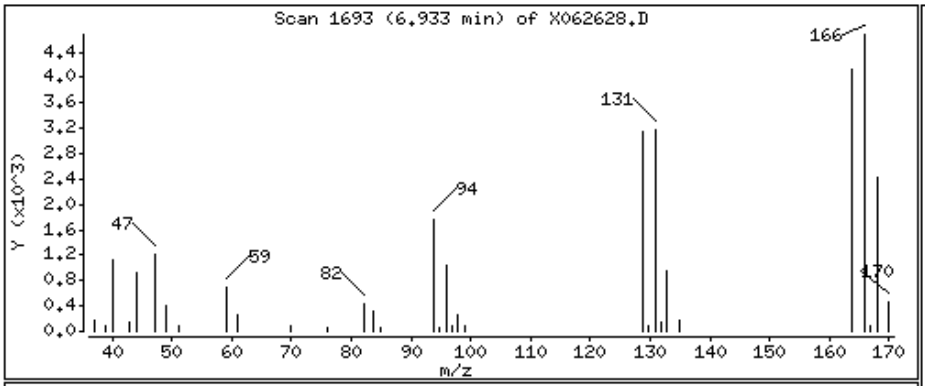
Operator: PC

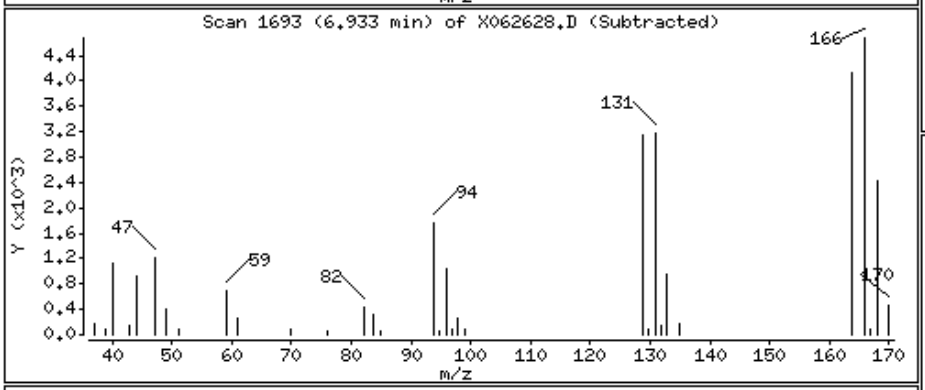
Column phase: DB624

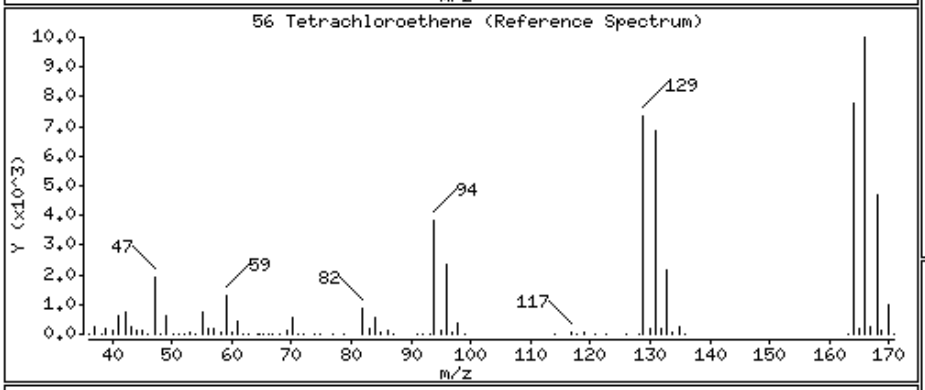
Column diameter: 0.18

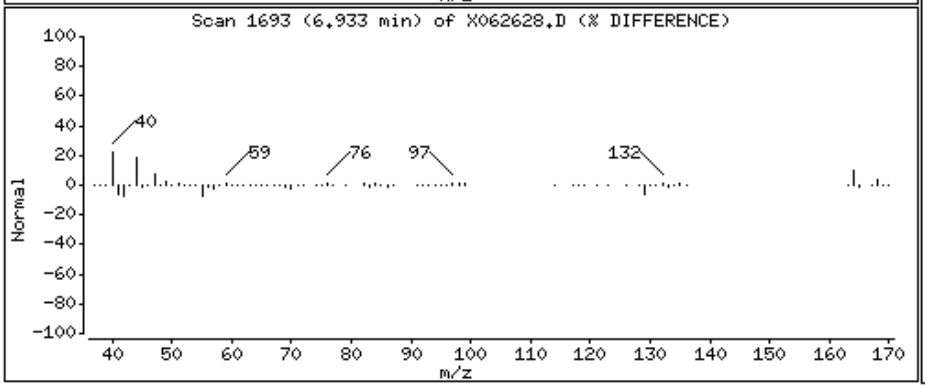
56 Tetrachloroethene

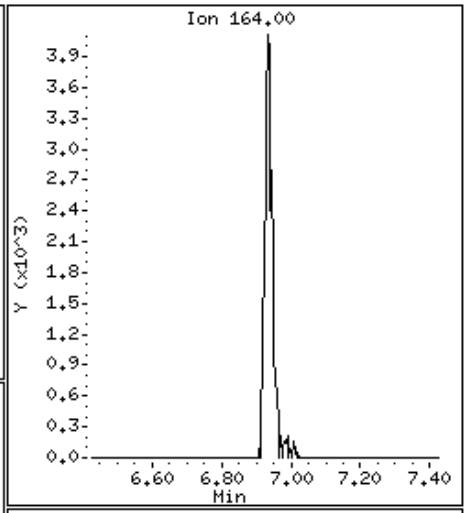
Concentration: 44.86 ug/l

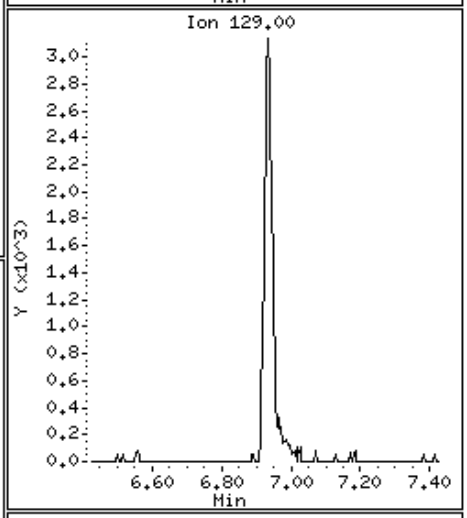


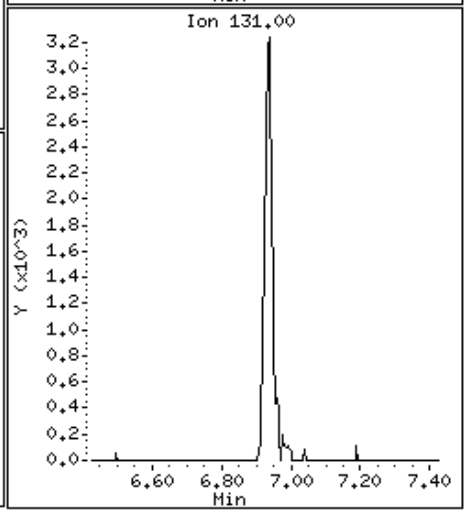












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062628.D

Date : 26-JUN-2023 22:01

Client ID: HS230611712-07

Instrument: voa6.i

Sample Info: HS23061712-07;HS230611712-07;;;

Purge Volume: 5.0

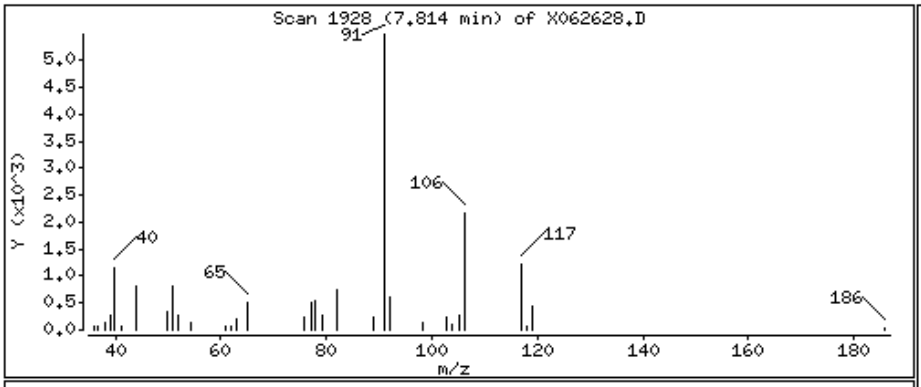
Operator: PC

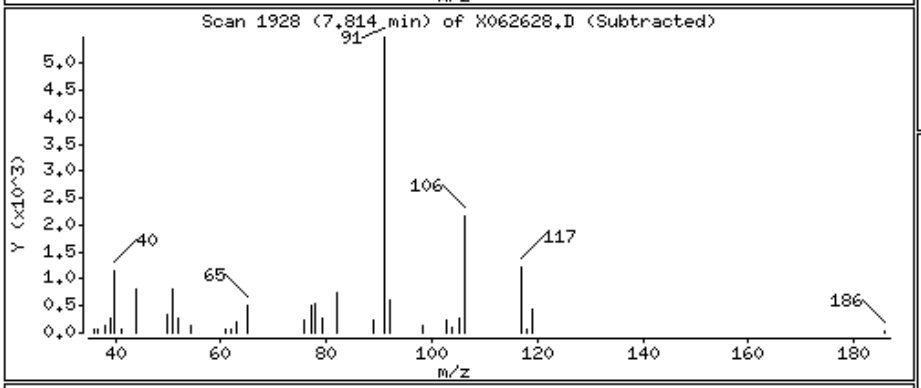
Column phase: DB624

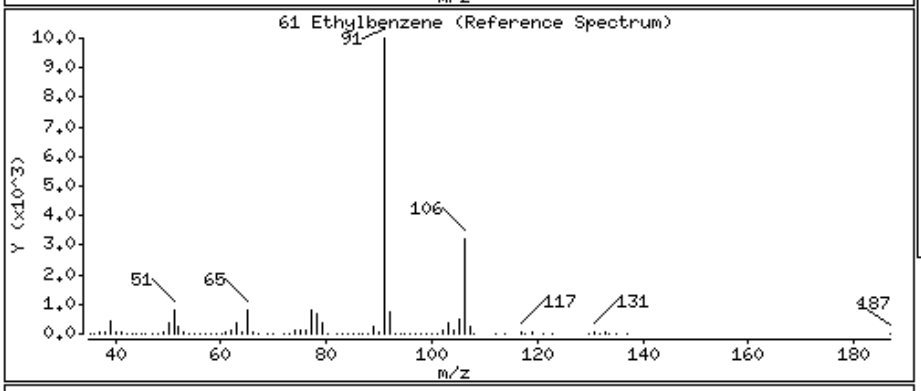
Column diameter: 0.18

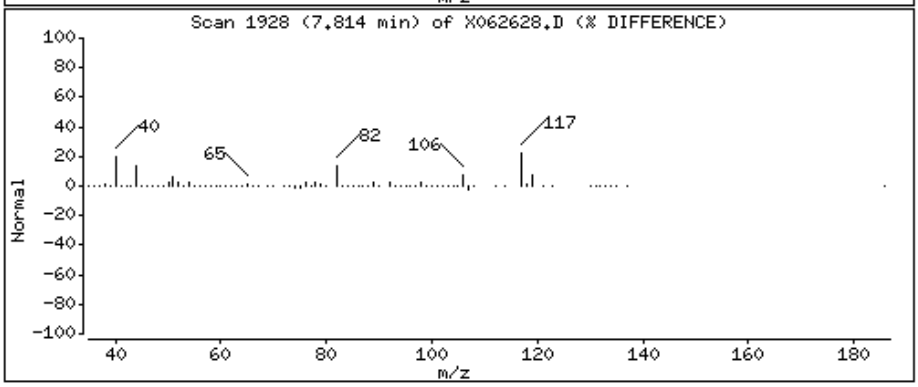
61 Ethylbenzene

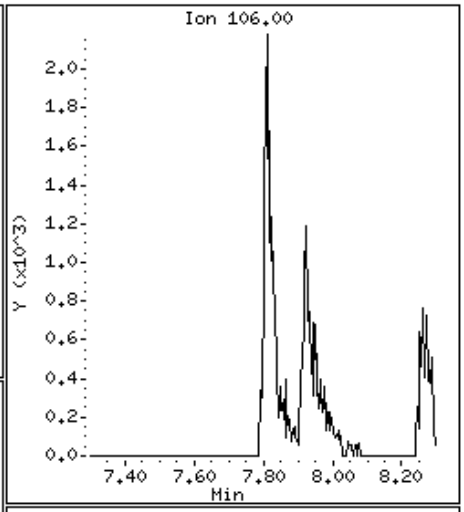
Concentration: 14.91 ug/l

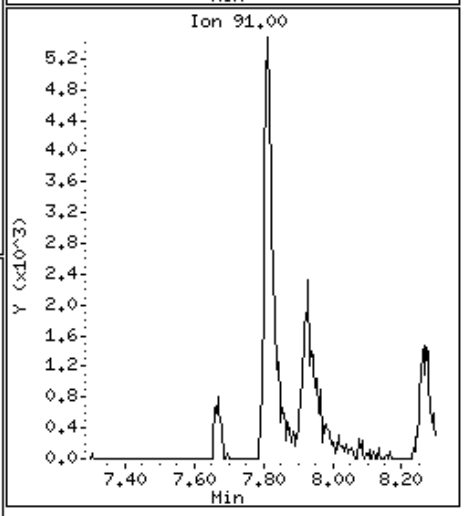












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062628.D

Date : 26-JUN-2023 22:01

Client ID: HS230611712-07

Instrument: voa6.i

Sample Info: HS23061712-07;HS230611712-07;;;

Purge Volume: 5.0

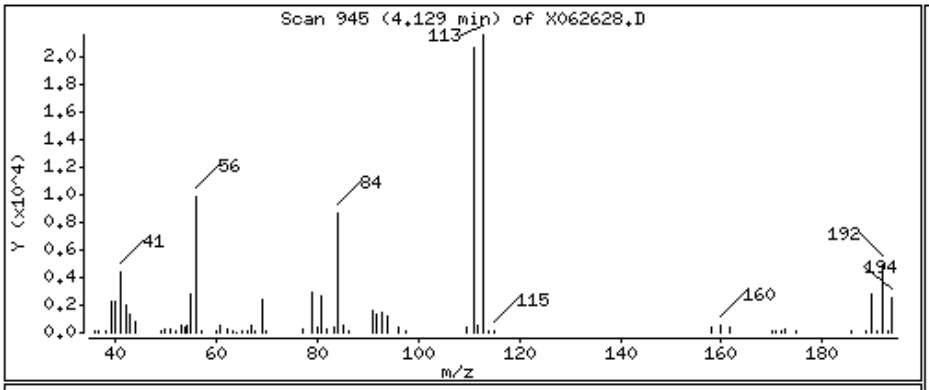
Operator: PC

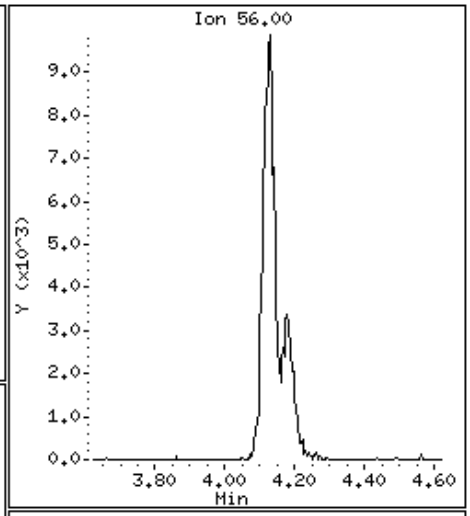
Column phase: DB624

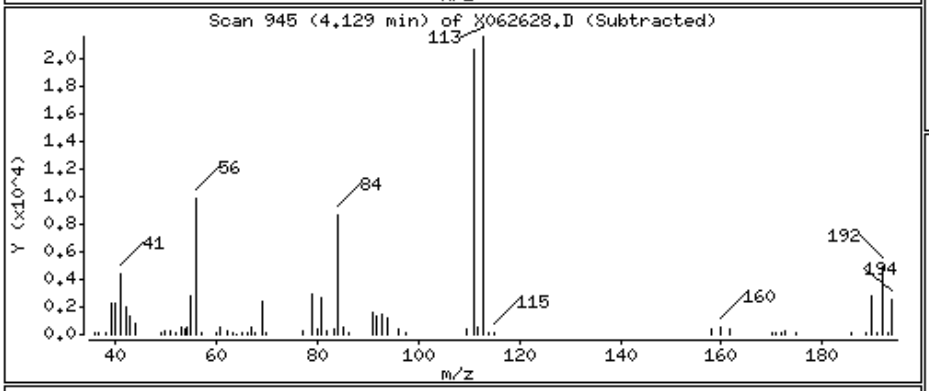
Column diameter: 0.18

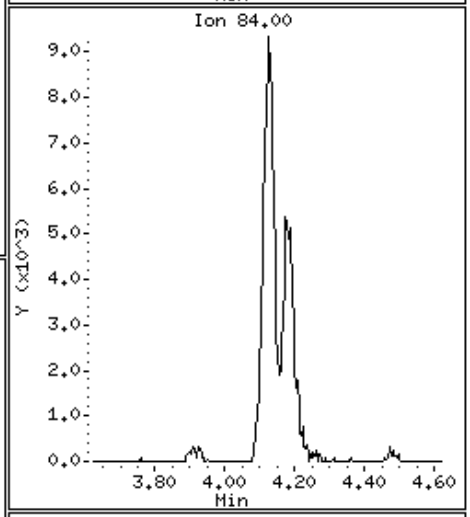
141 Cyclohexane

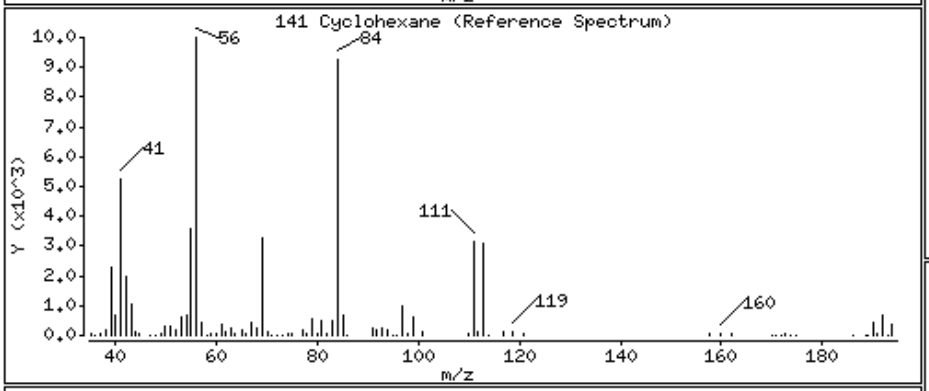
Concentration: 103.06 ug/l

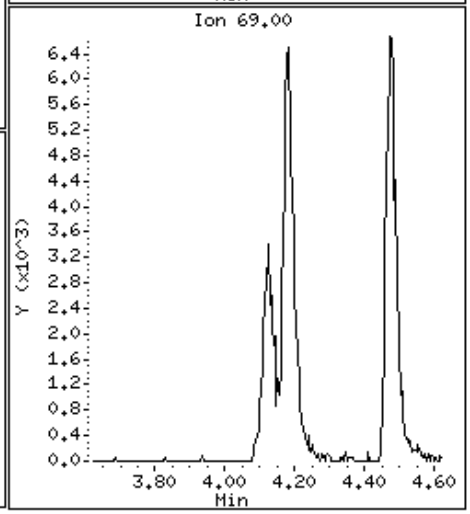


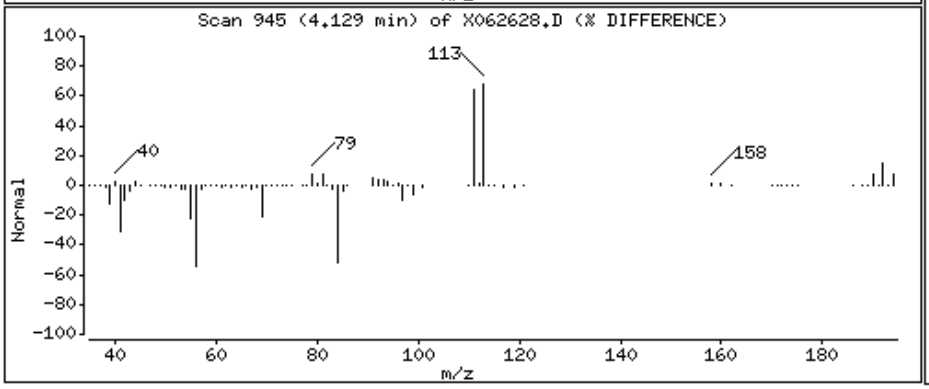












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Date : 26-JUN-2023 22:01

Client ID: HS230611712-07

Instrument: voa6.i

Sample Info: HS23061712-07;HS230611712-07;;;

Purge Volume: 5.0

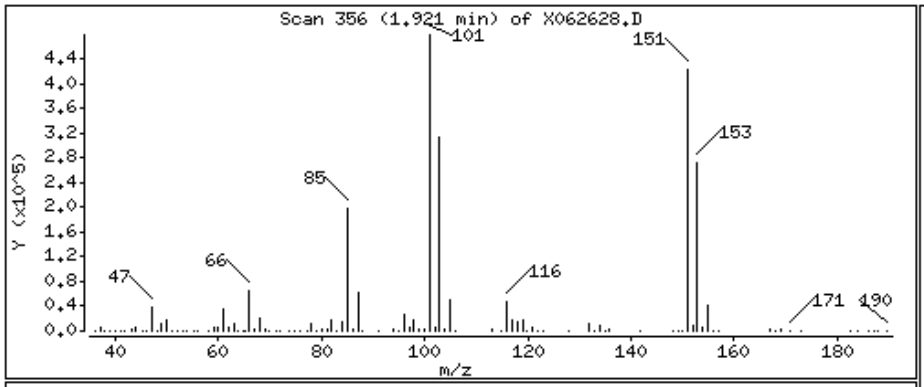
Operator: PC

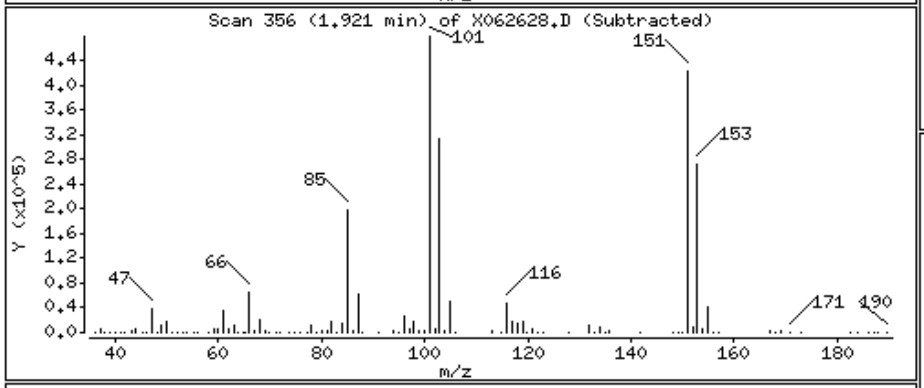
Column phase: DB624

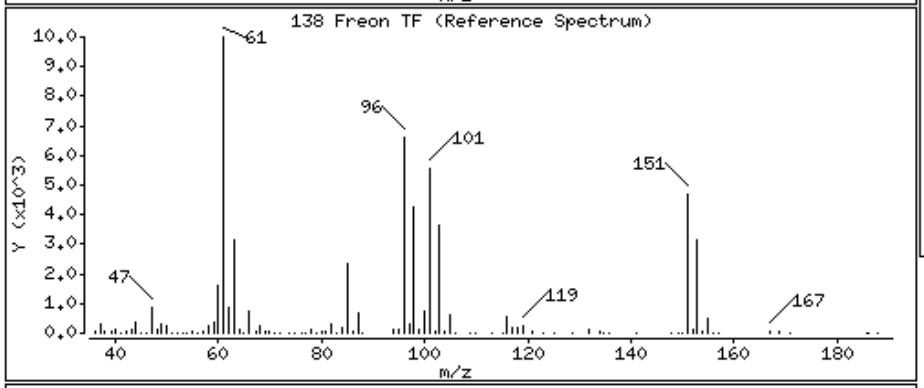
Column diameter: 0.18

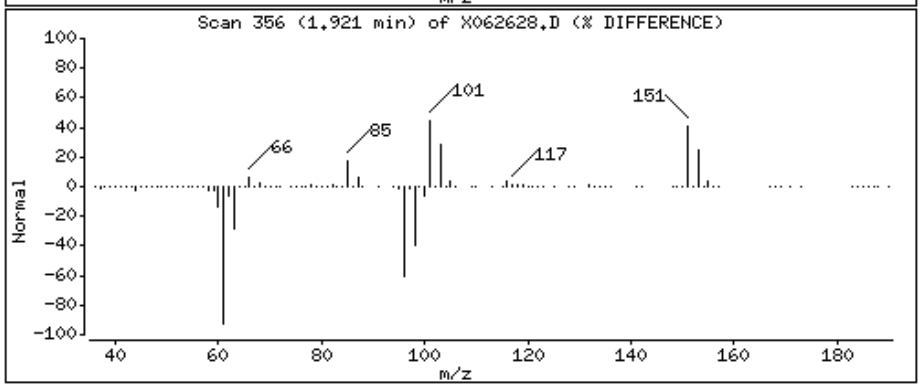
138 Freon TF

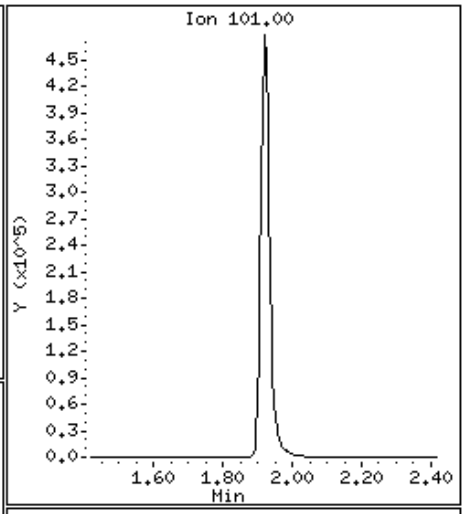
Concentration: 6387.30 ug/l

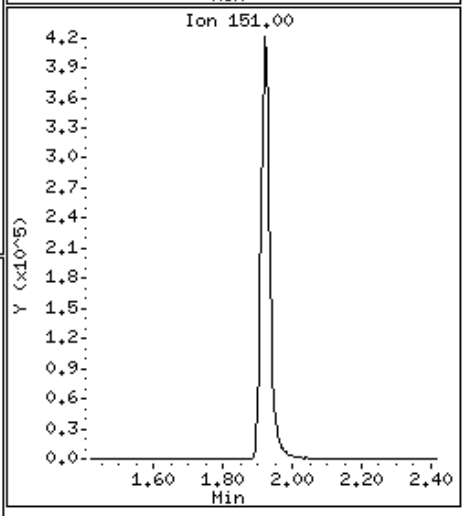












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062628.D
Inj Date : 26-JUN-2023 22:01
InstruID : voa6.i
LabSampID : HS23061712-07

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062629.D Page 1
Report Date: 06-Jul-2023 12:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062629.D
Lab Smp Id: HS23061712-07 Client Smp ID: HS230611712-07
Inj Date : 26-JUN-2023 22:22
Operator : PC Inst ID: voa6.i
Smp Info : HS23061712-07;HS230611712-07;;;
Misc Info : V6;WATER;0;250;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\8260W.m
Meth Date : 06-Jul-2023 12:04 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 27
Dil Factor: 250.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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	4.181	4.177	(1.000)	469537	50.0000	
	27 cis-1,2-Dichloroethene	96	3.529	3.525	(0.844)	514913	101.511	25377.80
$	30 Dibromofluoromethane	113	4.099	4.095	(0.980)	198173	47.2401	47.24
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	206016	45.4374	45.43
*	36 1,4-Difluorobenzene	114	4.968	4.965	(1.000)	658622	50.0000	
	38 Trichloroethene	130	5.212	5.205	(1.049)	100317	21.4761	5369.02
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	594350	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	779957	51.9055	51.90
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	279127	48.0822	48.08
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	311935	50.0000	
M	94 1,2-Dichloroethylene (total)	96				514913	101.511	25377.80
	138 Freon TF	101	1.921	1.917	(0.459)	95518	29.4905	7372.63

01201590

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062629.D

Date : 26-JUN-2023 22:22

Client ID: HS230611712-07

Instrument: voa6.i

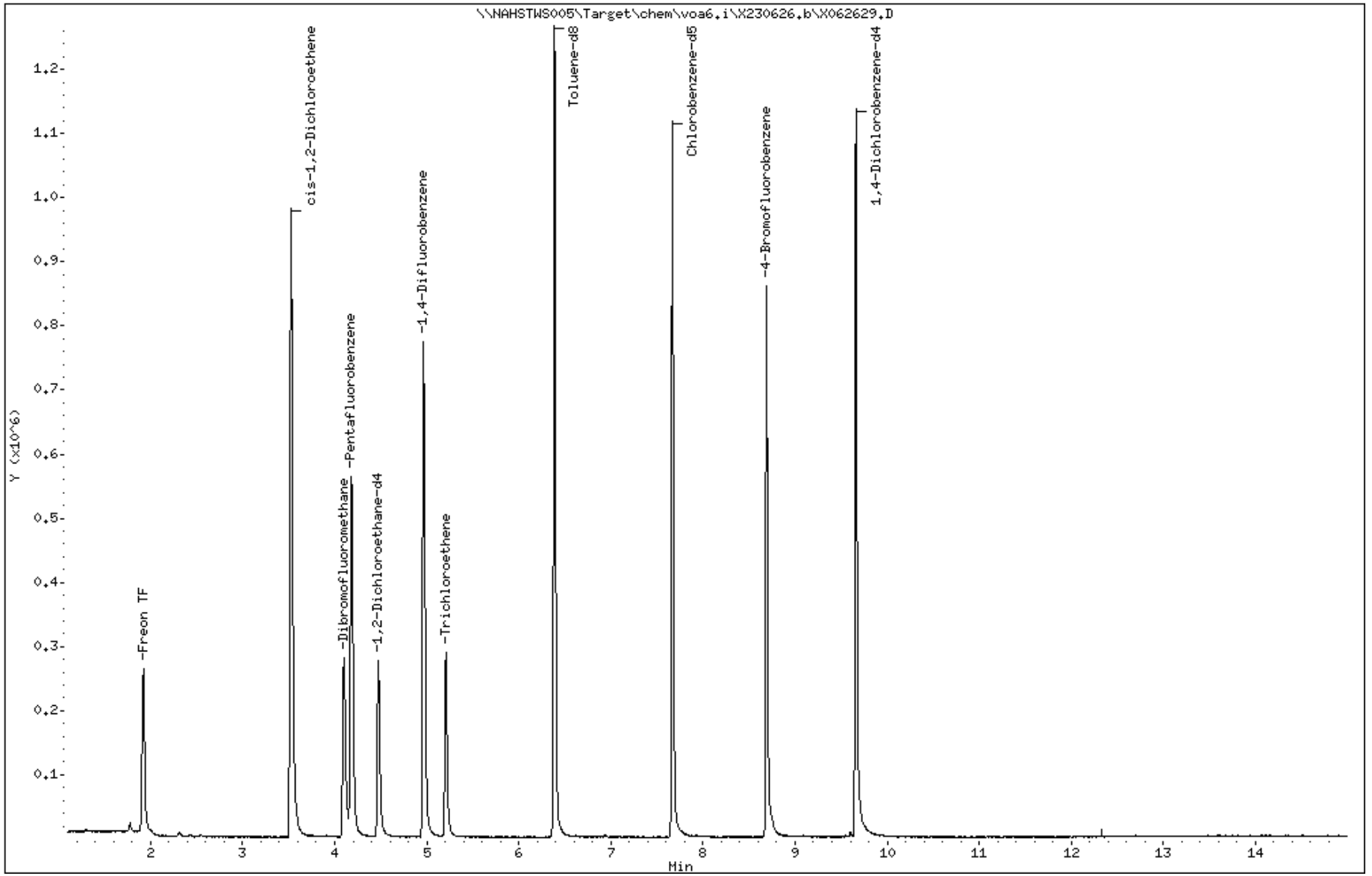
Sample Info: HS23061712-07;HS230611712-07;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Date : 26-JUN-2023 22:22

Client ID: HS230611712-07

Instrument: voa6.i

Sample Info: HS23061712-07;HS230611712-07;;;

Purge Volume: 5.0

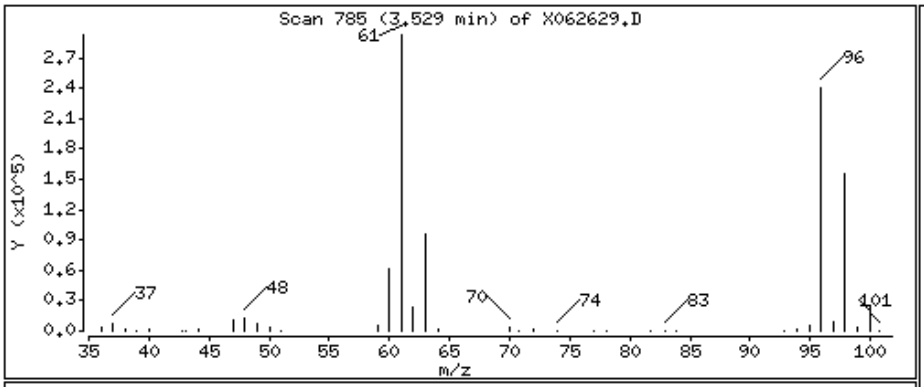
Operator: PC

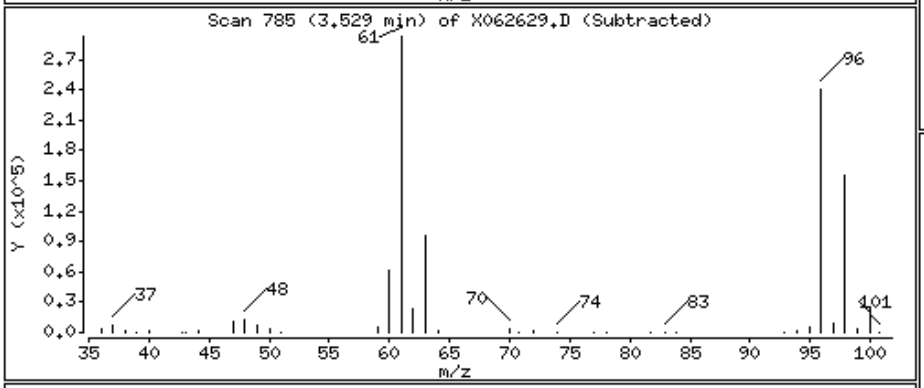
Column phase: DB624

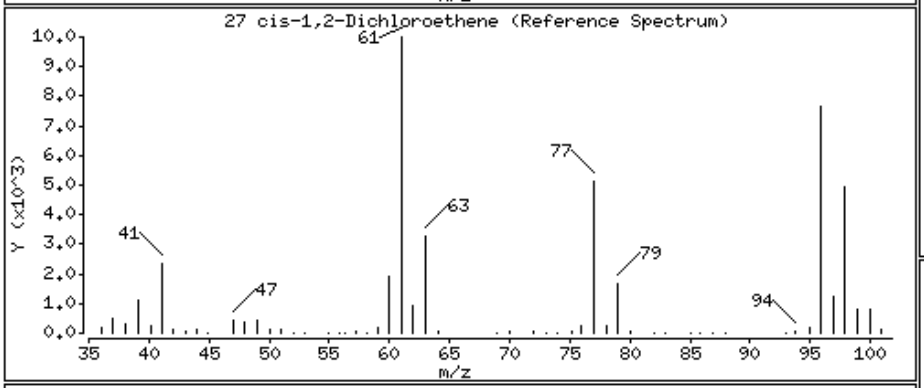
Column diameter: 0.18

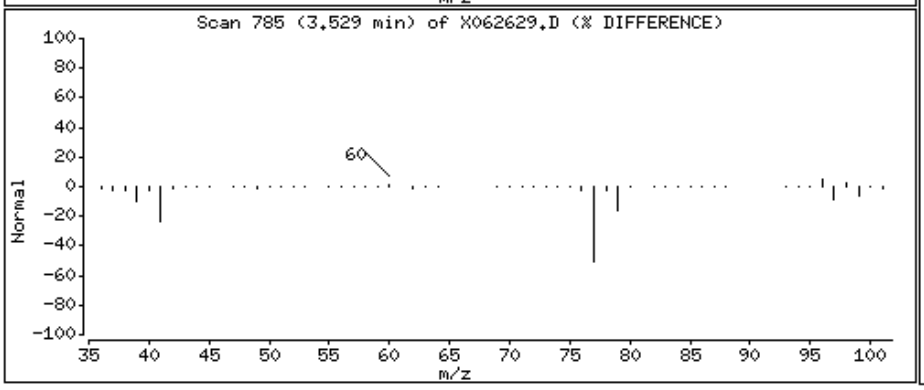
27 cis-1,2-Dichloroethene

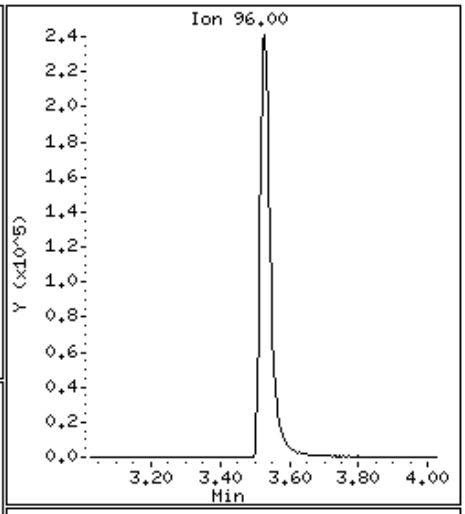
Concentration: 25377.80 ug/l

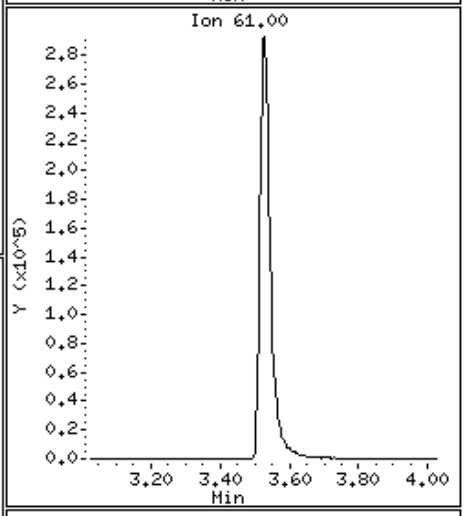


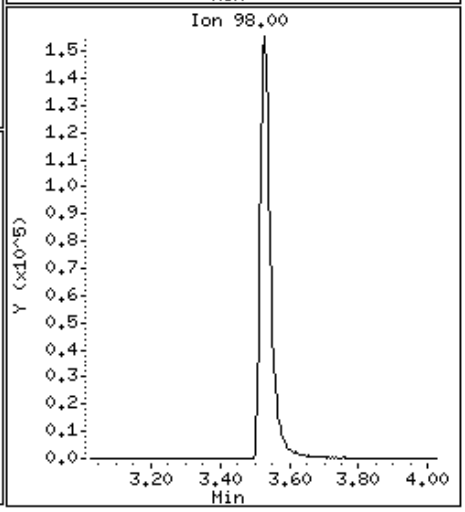












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062629.D Page 3

Date : 26-JUN-2023 22:22

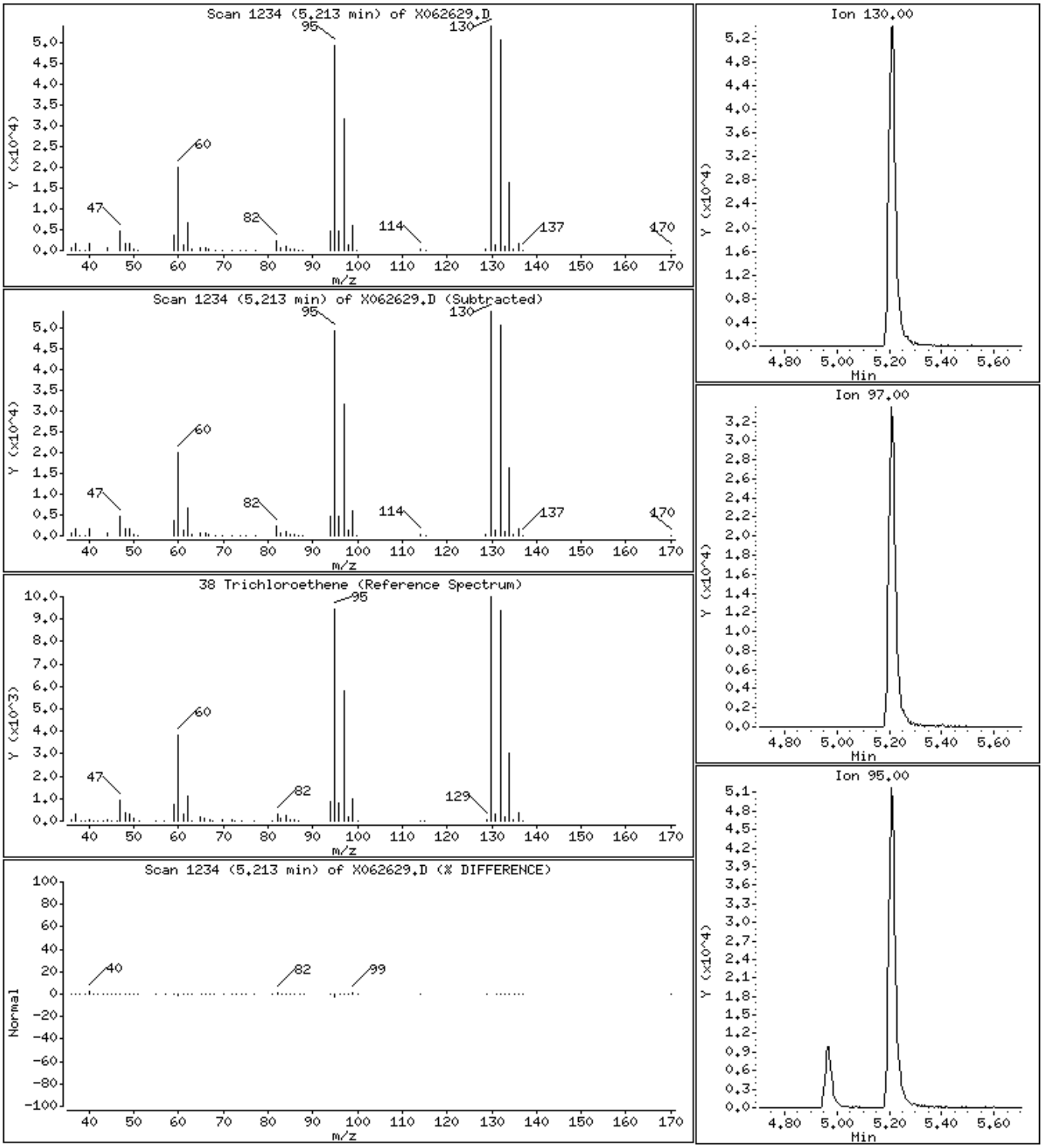
Client ID: HS230611712-07 Instrument: voa6.i

Sample Info: HS23061712-07;HS230611712-07;;;

Purge Volume: 5.0 Operator: PC

Column phase: DB624 Column diameter: 0.18

38 Trichloroethene Concentration: 5369.02 ug/l



ALS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062629.D

Date : 26-JUN-2023 22:22

Client ID: HS230611712-07

Instrument: voa6.i

Sample Info: HS23061712-07;HS230611712-07;;;

Purge Volume: 5.0

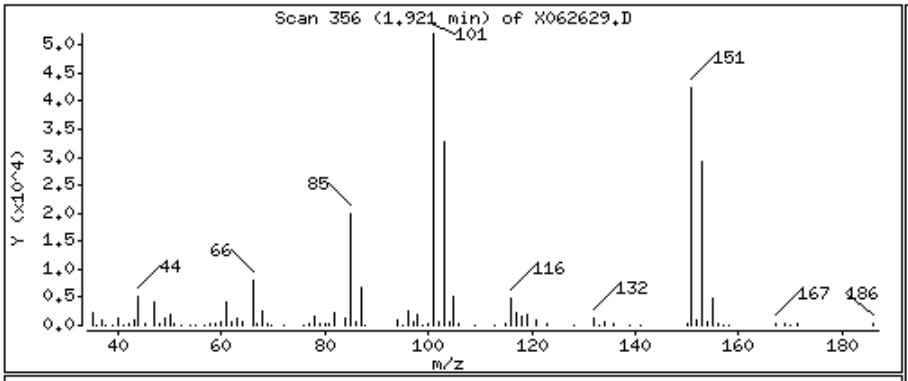
Operator: PC

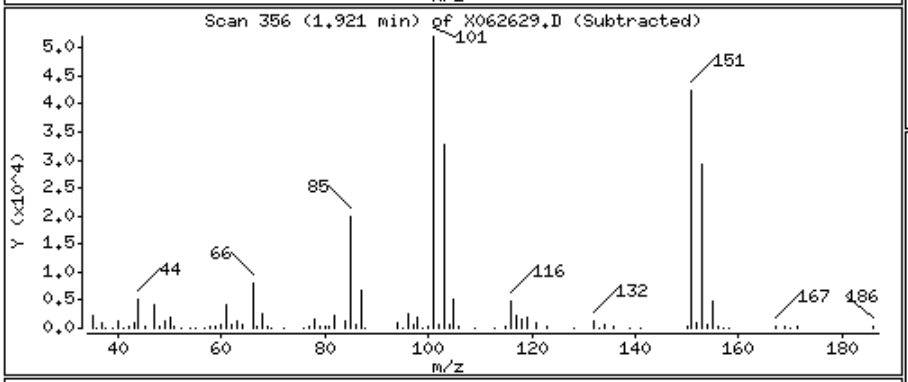
Column phase: DB624

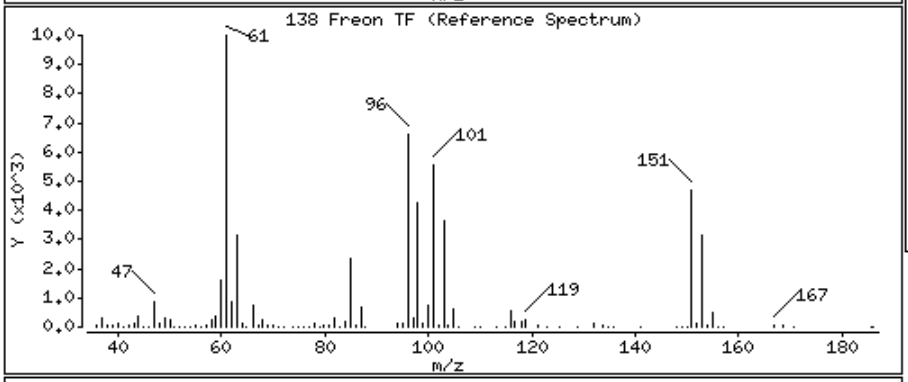
Column diameter: 0.18

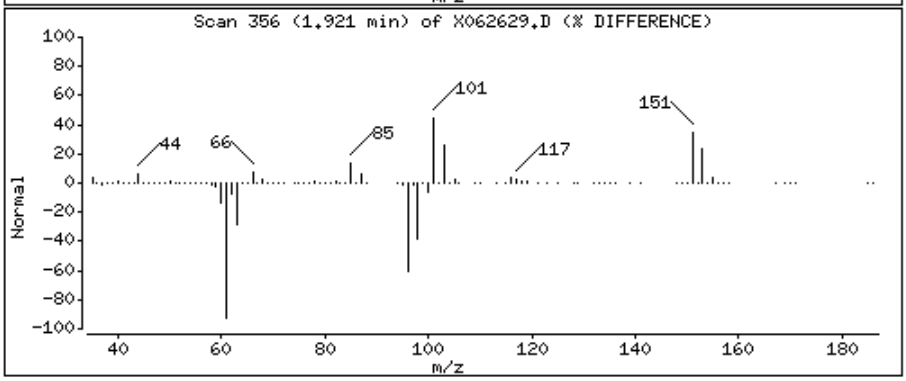
138 Freon TF

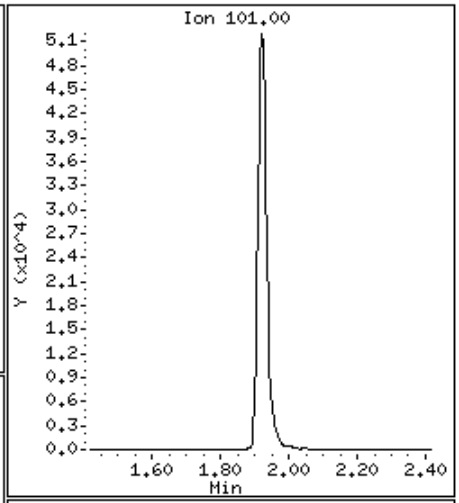
Concentration: 7372.63 ug/l

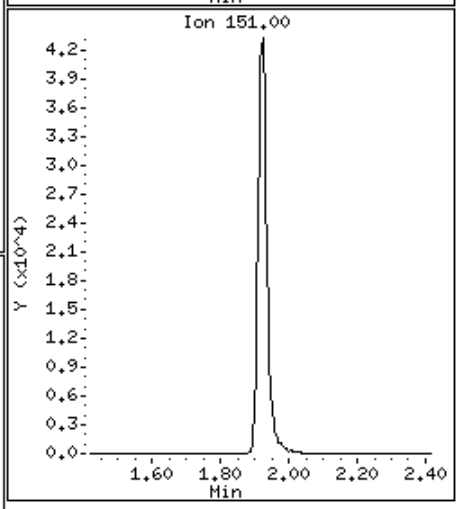












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Report Date: 06-Jul-2023 12:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062630.D
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Als bottle: 28 QC Sample: MS
Dil Factor: 200.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	200.000	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	4.181	4.177	(1.000)	477071	50.0000	
135 1,4-Dioxane	88	5.598	5.594	(1.339)	21175	366.252	73250.43(a)
140 1,3-Butadiene	54	1.171	1.167	(0.280)	74348	18.8057	3761.13
25 Methacrylonitrile	41	3.833	3.818	(0.917)	69535	17.6647	3532.94
12 Isobutyl Alcohol	43	4.676	4.672	(1.118)	217975	350.413	70082.64
13 Acetonitrile	39	2.202	2.202	(0.527)	86911	187.823	37564.62
14 Allyl Chloride	41	2.202	2.202	(0.527)	189663	18.1284	3625.67
4 Propionitrile	54	3.656	3.653	(0.874)	104354	180.868	36173.56(a)
72 trans-1,4-Dichloro-2-butene	53	8.889	8.886	(1.159)	27776	18.6958	3739.15
130 Ethyl Acetate	43	3.660	3.656	(0.875)	82884	17.0438	3408.76
40 Methyl Methacrylate	41	5.606	5.602	(1.341)	67531	18.2853	3657.05
49 Ethyl Methacrylate	69	6.708	6.708	(1.351)	80570	16.6392	3327.83
131 Methyl Acrylate	55	3.698	3.690	(0.884)	70853	18.3374	3667.47
139 Diethyl ether	59	1.763	1.760	(0.422)	52283	17.4929	3498.57
156 Diisopropyl ether	45	3.004	3.000	(0.719)	252004	17.9106	3582.11
2 Dichlorodifluoromethane	85	0.980	0.976	(0.234)	67095	16.5550	3311.00
3 Chloromethane	50	1.085	1.085	(0.260)	91315	18.7623	3752.45
5 Vinyl Chloride	62	1.149	1.149	(0.275)	95108	18.9826	3796.52
6 Bromomethane	94	1.347	1.343	(0.322)	58958	20.5003	4100.05
7 Chloroethane	64	1.411	1.407	(0.338)	60566	19.7760	3955.20

8	Trichlorofluoromethane	101	1.565	1.565 (0.374)	128391	21.5642	4312.83
9	Acrolein	56	1.452	1.448 (0.347)	11534	38.9623	7792.46

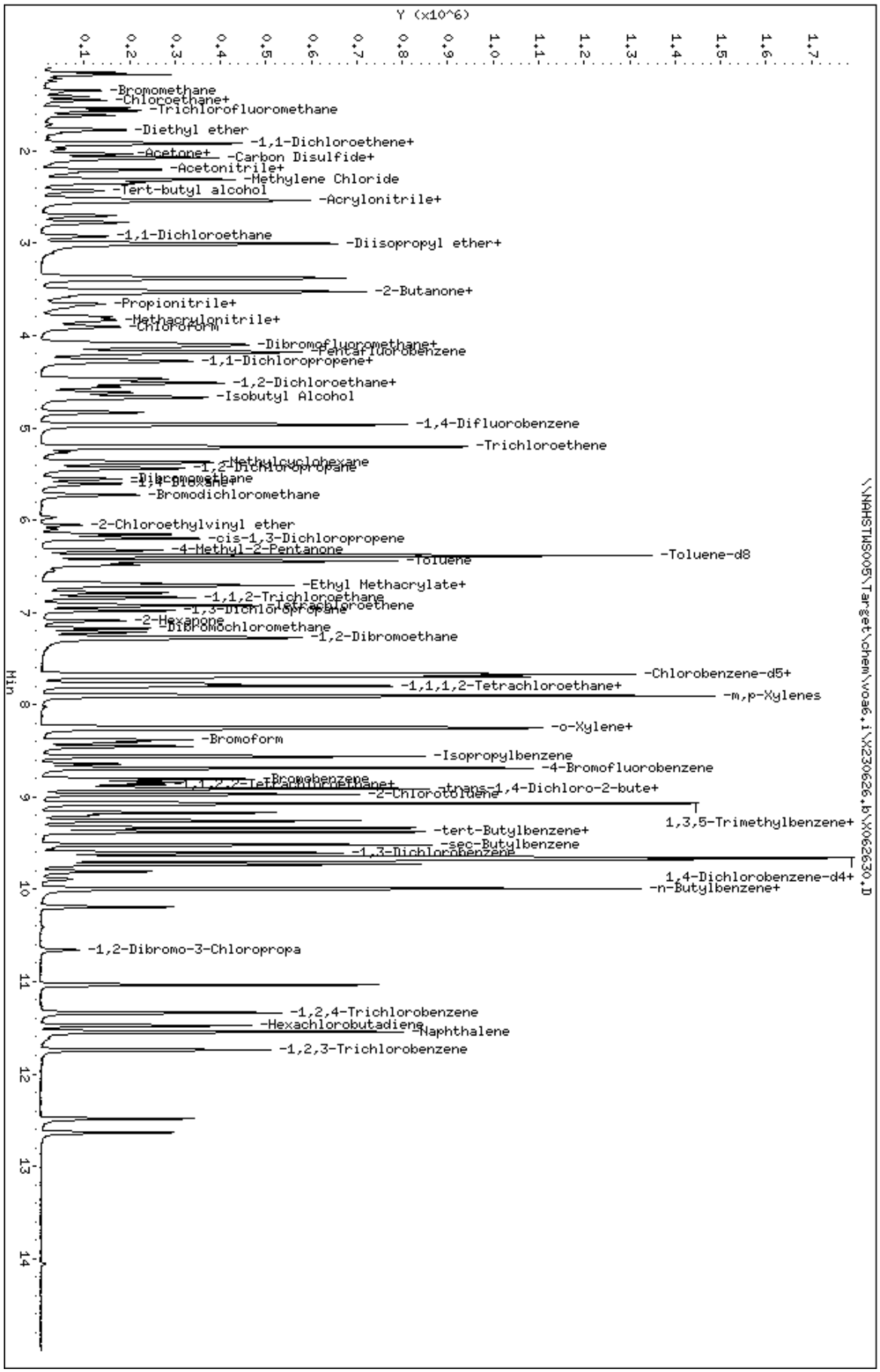
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	10 Acetone	43	1.977	1.973	(0.473)	36974	29.5312	5906.24
	11 1,1-Dichloroethene	96	1.921	1.917	(0.459)	76604	20.5098	4101.95
	15 Iodomethane	142	2.033	2.029	(0.486)	198210	33.8278	6765.56
	16 Acrylonitrile	53	2.543	2.536	(0.608)	51871	34.2537	6850.74
	17 Methylene Chloride	84	2.307	2.307	(0.552)	96499	18.2910	3658.19
	18 Methyl tert-butyl ether	73	2.539	2.536	(0.607)	233611	17.9204	3584.08
	19 Carbon Disulfide	76	2.074	2.071	(0.496)	463173	34.8270	6965.40
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	87645	19.6106	3922.12
	21 Vinyl Acetate	43	3.004	2.997	(0.719)	436691	36.6086	7321.72
	22 1,1-Dichloroethane	63	2.925	2.922	(0.700)	150998	18.7547	3750.93
	24 2-Butanone	43	3.589	3.578	(0.858)	48438	30.8519	6170.37
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	123483	19.4326	3886.51
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.843)	325938	63.2415	12648.29
	28 Chloroform	83	3.908	3.908	(0.935)	159165	18.3674	3673.47
	29 Bromochloromethane	128	3.799	3.791	(0.909)	52830	19.2363	3847.26
$	30 Dibromofluoromethane	113	4.099	4.095	(0.980)	198228	46.5016	46.50
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	141709	20.2328	4046.55
	32 1,1-Dichloropropene	75	4.282	4.282	(0.863)	125367	22.1466	4429.31
	33 1,2-Dichloroethane	62	4.556	4.552	(0.918)	132191	23.3047	4660.94
	34 Carbon Tetrachloride	117	4.267	4.264	(0.860)	124168	22.8076	4561.51
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	203304	44.1064	44.10
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	675566	50.0000	
	37 Benzene	78	4.515	4.511	(0.909)	363467	20.9161	4183.22
	38 Trichloroethene	130	5.208	5.205	(1.049)	322614	67.3337	13466.74
	39 Bromodichloromethane	83	5.726	5.722	(1.153)	123866	20.1507	4030.13
	41 2-Chloroethylvinyl ether	63	6.052	6.048	(1.219)	37739	22.6882	4537.64
	42 1,2-Dichloropropane	63	5.437	5.433	(1.095)	92797	20.3447	4068.94
	44 Dibromomethane	93	5.553	5.553	(1.119)	58454	20.4148	4082.96
	45 4-Methyl-2-Pentanone	43	6.325	6.322	(0.825)	155814	39.5163	7903.25
	46 cis-1,3-Dichloropropene	75	6.157	6.153	(1.240)	151703	20.0158	4003.16
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	610400	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	800952	51.9012	51.90
	50 Toluene	91	6.445	6.445	(0.841)	413576	23.0794	4615.87
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	125501	19.7910	3958.20
	52 2-Hexanone	43	7.086	7.086	(0.924)	102316	38.8469	7769.37
	53 1,1,2-Trichloroethane	83	6.839	6.835	(0.892)	73742	21.1229	4224.58
	54 1,3-Dichloropropane	76	6.981	6.978	(0.911)	149422	21.1683	4233.66
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	106670	21.5595	4311.90
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	90847	24.6533	4930.65
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	94106	21.0893	4217.86
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	90552	22.0413	4408.26
	59 Chlorobenzene	112	7.694	7.690	(1.003)	280013	22.8368	4567.36
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	100505	21.9822	4396.44
	61 Ethylbenzene	106	7.795	7.799	(1.017)	147889	23.4101	4682.02
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	377723	48.4851	9697.02
	63 o-Xylene	106	8.241	8.237	(1.075)	179158	23.0467	4609.34
	64 Styrene	104	8.256	8.256	(1.077)	297718	23.2510	4650.19
	66 Bromoform	173	8.410	8.406	(1.097)	73631	21.3469	4269.38
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	464521	24.1755	4835.09
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	123543	20.6709	4134.18
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	289094	48.4942	48.49
*	70 1,4-Dichlorobenzene-d4	152	9.658	9.662	(1.000)	339896	50.0000	

71 1,2,3-Trichloropropane	75	8.863	8.859 (0.918)	91512	21.3530	4270.59
73 n-Propylbenzene	91	8.908	8.908 (0.922)	556623	24.8860	4977.20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
74	Bromobenzene	156	8.803	8.803	(0.912)	129550	23.3851	4677.01
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.939)	394726	24.0508	4810.16
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	331823	23.3618	4672.36
77	4-Chlorotoluene	91	9.069	9.069	(0.939)	369634	23.3307	4666.13
78	tert-Butylbenzene	119	9.332	9.332	(0.966)	345205	25.2468	5049.35
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	397006	23.9759	4795.18
81	sec-Butylbenzene	105	9.519	9.519	(0.986)	487731	25.2918	5058.35
82	p-Isopropyltoluene	119	9.647	9.647	(0.999)	423345	25.0745	5014.90
83	1,3-Dichlorobenzene	146	9.605	9.602	(0.995)	231349	23.4537	4690.73
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	241431	22.8668	4573.36
87	n-Butylbenzene	91	9.992	9.992	(1.035)	364912	25.3767	5075.34
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.035)	227885	23.2837	4656.73
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	21091	21.7719	4354.38
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	163577	24.0258	4805.15
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	80745	26.4209	5284.17
92	Naphthalene	128	11.543	11.540	(1.195)	343418	22.4063	4481.26
93	1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	147885	23.6055	4721.10
M 94	1,2-Dichloroethylene (total)	96				413583	82.8521	16570.41
M 95	Xylenes (total)	106				556881	71.5318	14306.36
141	Cyclohexane	56	4.121	4.121	(0.986)	140069	23.0326	4606.51
138	Freon TF	101	1.921	1.917	(0.459)	88412	26.8946	5378.92
147	Methylcyclohexane	55	5.381	5.377	(1.084)	219935	23.2937	4658.74
146	Methyl Acetate	43	2.236	2.232	(0.535)	51063	18.0835	3616.69
148	Tert-Butyl alcohol	59	2.431	2.427	(0.581)	160328	327.267	65453.46
149	Isopropyl Alcohol	45	2.101	2.093	(0.502)	88501	327.281	65456.16

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



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NO MANUAL INTEGRATIONS

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Report Date: 06-Jul-2023 12:05

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Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062631.D
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Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 28 QC Sample: MSD
Dil Factor: 200.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	200.000	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	4.181	4.177	(1.000)	481991	50.0000	
135 1,4-Dioxane	88	5.598	5.594	(1.339)	19714	337.501	67500.28(a)
140 1,3-Butadiene	54	1.171	1.167	(0.280)	70136	17.5592	3511.83
25 Methacrylonitrile	41	3.821	3.818	(0.914)	66901	16.8221	3364.42
12 Isobutyl Alcohol	43	4.676	4.672	(1.118)	214628	341.511	68302.12
13 Acetonitrile	39	2.202	2.202	(0.527)	83618	178.862	35772.40
14 Allyl Chloride	41	2.206	2.202	(0.528)	181432	17.1646	3432.92
4 Propionitrile	54	3.656	3.653	(0.874)	101042	173.340	34667.95(a)
72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	26345	17.1534	3430.68
130 Ethyl Acetate	43	3.660	3.656	(0.875)	80301	16.3441	3268.82
40 Methyl Methacrylate	41	5.609	5.602	(1.342)	63530	17.0263	3405.26
49 Ethyl Methacrylate	69	6.708	6.708	(1.351)	75926	15.5201	3104.01
131 Methyl Acrylate	55	3.698	3.690	(0.884)	70191	17.9806	3596.11
139 Diethyl ether	59	1.763	1.760	(0.422)	54329	17.9919	3598.37
156 Diisopropyl ether	45	3.000	3.000	(0.718)	246917	17.3699	3473.97
2 Dichlorodifluoromethane	85	0.980	0.976	(0.234)	64939	15.8734	3174.68
3 Chloromethane	50	1.085	1.085	(0.260)	90586	18.4411	3688.22
5 Vinyl Chloride	62	1.149	1.149	(0.275)	90674	17.9129	3582.57
6 Bromomethane	94	1.347	1.343	(0.322)	53149	18.2918	3658.35
7 Chloroethane	64	1.407	1.407	(0.337)	57872	18.7035	3740.69

8	Trichlorofluoromethane	101	1.565	1.565 (0.374)	123336	20.5037	4100.74
9	Acrolein	56	1.448	1.448 (0.346)	10939	36.5752	7315.04

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062631.D Page 2
Report Date: 06-Jul-2023 12:05

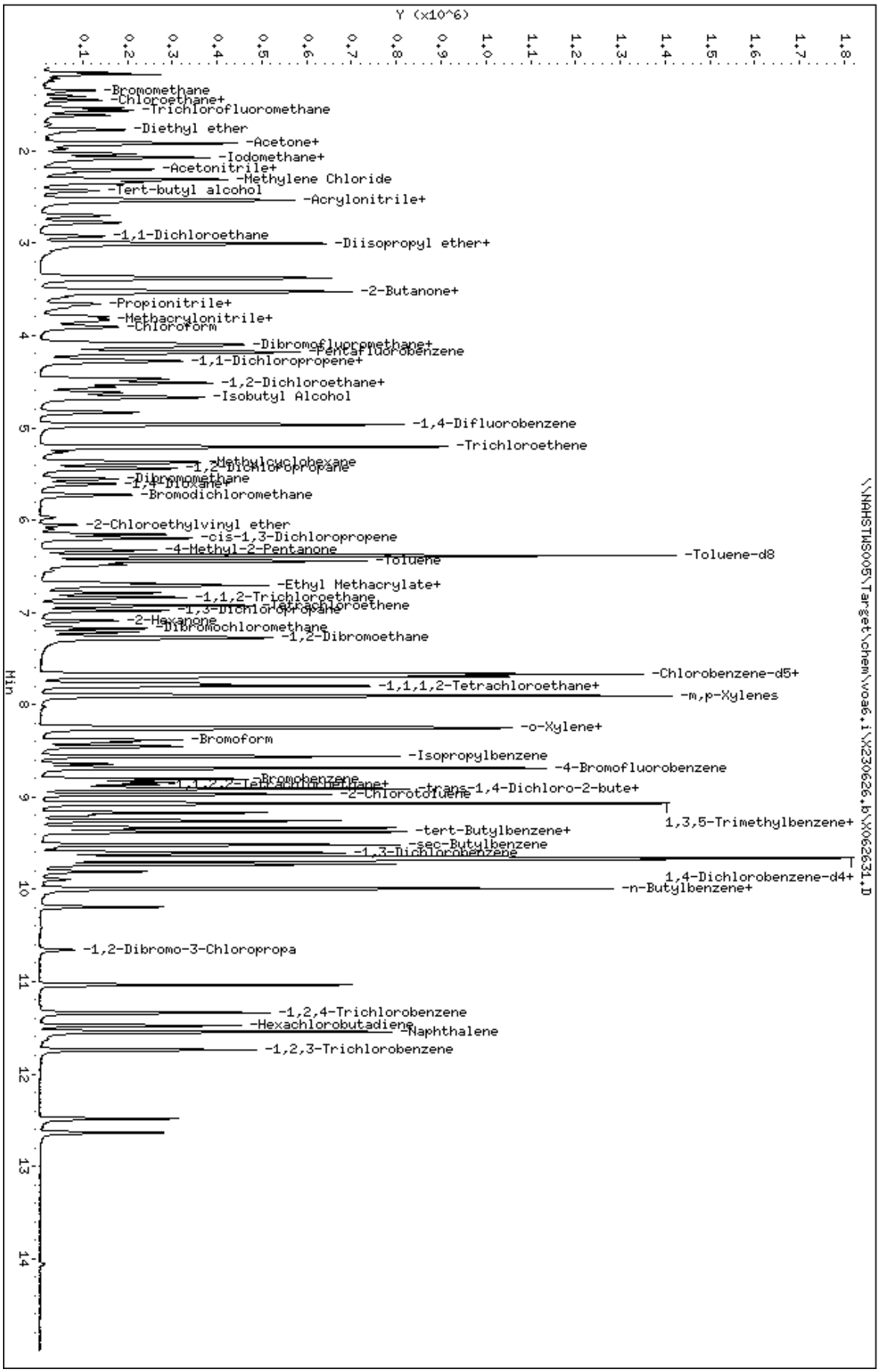
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	10 Acetone	43	1.977	1.973	(0.473)	38357	30.3304	6066.08
	11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	75259	19.9440	3988.79
	15 Iodomethane	142	2.033	2.029	(0.486)	221878	37.2153	7443.06
	16 Acrylonitrile	53	2.547	2.536	(0.609)	49610	32.4262	6485.24
	17 Methylene Chloride	84	2.307	2.307	(0.552)	94805	17.7865	3557.29
	18 Methyl tert-butyl ether	73	2.536	2.536	(0.606)	227832	17.2987	3459.74
	19 Carbon Disulfide	76	2.074	2.071	(0.496)	452717	33.6933	6738.66
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	87020	19.2720	3854.40
	21 Vinyl Acetate	43	3.000	2.997	(0.718)	430821	35.7479	7149.57
	22 1,1-Dichloroethane	63	2.925	2.922	(0.700)	147707	18.1586	3631.72
	24 2-Butanone	43	3.585	3.578	(0.857)	45149	28.4635	5692.69
	26 2,2-Dichloropropane	77	3.506	3.510	(0.839)	120580	18.7818	3756.36
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.843)	312848	60.0820	12016.40
	28 Chloroform	83	3.908	3.908	(0.935)	158545	18.1091	3621.81
	29 Bromochloromethane	128	3.799	3.791	(0.909)	51120	18.4237	3684.73
$	30 Dibromofluoromethane	113	4.099	4.095	(0.980)	201757	46.8489	46.84
	31 1,1,1-Trichloroethane	97	4.084	4.080	(0.977)	137390	19.4159	3883.17
	32 1,1-Dichloropropene	75	4.282	4.282	(0.863)	120477	21.0655	4213.10
	33 1,2-Dichloroethane	62	4.560	4.552	(0.918)	131349	22.9200	4584.00
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	121178	22.0312	4406.24
$	35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	207709	44.6118	44.61
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	682531	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	360051	20.5081	4101.62
	38 Trichloroethene	130	5.205	5.205	(1.048)	311476	64.3457	12869.13
	39 Bromodichloromethane	83	5.726	5.722	(1.153)	121562	19.5740	3914.80
	41 2-Chloroethylvinyl ether	63	6.052	6.048	(1.219)	34495	20.5264	4105.27
	42 1,2-Dichloropropane	63	5.437	5.433	(1.095)	92366	20.0436	4008.71
	44 Dibromomethane	93	5.553	5.553	(1.119)	58951	20.3783	4075.65
	45 4-Methyl-2-Pentanone	43	6.325	6.322	(0.825)	149193	36.6014	7320.27
	46 cis-1,3-Dichloropropene	75	6.157	6.153	(1.240)	149870	19.5722	3914.43
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	631008	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	809164	50.7209	50.72
	50 Toluene	91	6.445	6.445	(0.841)	395735	21.3626	4272.51
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	122983	19.1961	3839.21
	52 2-Hexanone	43	7.086	7.086	(0.924)	97350	35.7543	7150.86
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	71730	19.8756	3975.11
	54 1,3-Dichloropropane	76	6.981	6.978	(0.911)	147338	20.1914	4038.28
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	104805	20.4908	4098.15
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	87940	23.0850	4617.00
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	93244	20.2137	4042.74
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	89520	21.5678	4313.55
	59 Chlorobenzene	112	7.694	7.690	(1.003)	271602	21.4274	4285.48
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	98907	20.9262	4185.24
	61 Ethylbenzene	106	7.799	7.799	(1.017)	143447	21.9654	4393.08
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	361366	44.8706	8974.12
	63 o-Xylene	106	8.241	8.237	(1.075)	172625	21.4811	4296.21
	64 Styrene	104	8.260	8.256	(1.077)	286172	21.6193	4323.86
	66 Bromoform	173	8.410	8.406	(1.097)	72457	20.3205	4064.09
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	451895	22.7503	4550.05
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	118446	18.7293	3745.86
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	298926	48.5060	48.50
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	359655	50.0000	

71 1,2,3-Trichloropropane	75	8.863	8.859 (0.917)	85597	18.8755	3775.10
73 n-Propylbenzene	91	8.912	8.908 (0.922)	527605	22.2927	4458.54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	74 Bromobenzene	156	8.803	8.803	(0.911)	126573	21.5925	4318.49
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	383764	22.0983	4419.65
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	316155	21.0359	4207.17
	77 4-Chlorotoluene	91	9.069	9.069	(0.939)	362413	21.6182	4323.63
	78 tert-Butylbenzene	119	9.332	9.332	(0.966)	328198	22.6843	4536.85
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	380088	21.6931	4338.62
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	465227	22.7994	4559.88
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	407093	22.7872	4557.44
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	223176	21.3821	4276.42
	84 1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	233564	20.9064	4181.27
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	346549	22.7757	4555.14
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	221595	21.3971	4279.42
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	20036	19.5733	3914.66
	90 1,2,4-Trichlorobenzene	180	11.337	11.334	(1.173)	158234	21.9642	4392.83
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	76505	23.6582	4731.63
	92 Naphthalene	128	11.544	11.540	(1.195)	332748	20.5174	4103.48
	93 1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	146120	22.0424	4408.48
M	94 1,2-Dichloroethylene (total)	96				399868	79.3540	15870.80
M	95 Xylenes (total)	106				533991	66.3517	13270.33
	141 Cyclohexane	56	4.125	4.121	(0.987)	128712	20.9490	4189.80
	138 Freon TF	101	1.917	1.917	(0.459)	87679	26.4048	5280.95
	147 Methylcyclohexane	55	5.381	5.377	(1.084)	206732	21.6719	4334.38
	146 Methyl Acetate	43	2.239	2.232	(0.536)	47912	16.7944	3358.87
	148 Tert-Butyl alcohol	59	2.431	2.427	(0.581)	149397	301.842	60368.34
	149 Isopropyl Alcohol	45	2.101	2.093	(0.502)	79757	291.934	58386.88

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



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NO MANUAL INTEGRATIONS

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Report Date: 06-Jul-2023 12:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062632.D
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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	4.185	4.185	(1.000)	424019	50.0000	
135 1,4-Dioxane	88	5.594	5.594	(1.337)	46696	1000.00	908.72
140 1,3-Butadiene	54	1.171	1.171	(0.280)	146376	50.0000	41.65
25 Methacrylonitrile	41	3.821	3.821	(0.913)	161783	50.0000	46.24
12 Isobutyl Alcohol	43	4.676	4.676	(1.117)	495204	1000.00	895.68
13 Acetonitrile	39	2.206	2.206	(0.527)	184421	500.000	448.41
14 Allyl Chloride	41	2.202	2.202	(0.526)	403195	50.0000	43.35
4 Propionitrile	54	3.653	3.653	(0.873)	247873	500.000	483.36
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	64735	50.0000	43.30
130 Ethyl Acetate	43	3.656	3.656	(0.874)	182065	50.0000	42.12
40 Methyl Methacrylate	41	5.606	5.606	(1.339)	155695	50.0000	47.43
49 Ethyl Methacrylate	69	6.708	6.708	(1.351)	196289	50.0000	42.09
131 Methyl Acrylate	55	3.690	3.690	(0.882)	173522	50.0000	50.52
139 Diethyl ether	59	1.763	1.763	(0.421)	122093	50.0000	45.96
156 Diisopropyl ether	45	3.004	3.004	(0.718)	545882	50.0000	43.65
2 Dichlorodifluoromethane	85	0.980	0.980	(0.234)	144249	50.0000	39.57
3 Chloromethane	50	1.085	1.085	(0.259)	194924	50.0000	43.62
5 Vinyl Chloride	62	1.152	1.152	(0.275)	185992	50.0000	41.76
6 Bromomethane	94	1.347	1.347	(0.322)	119628	50.0000	46.80
7 Chloroethane	64	1.411	1.411	(0.337)	122533	50.0000	45.01

8	Trichlorofluoromethane	101	1.568	1.568 (0.375)	240132	50.0000	45.37
9	Acrolein	56	1.448	1.448 (0.346)	21546	100.000	81.88

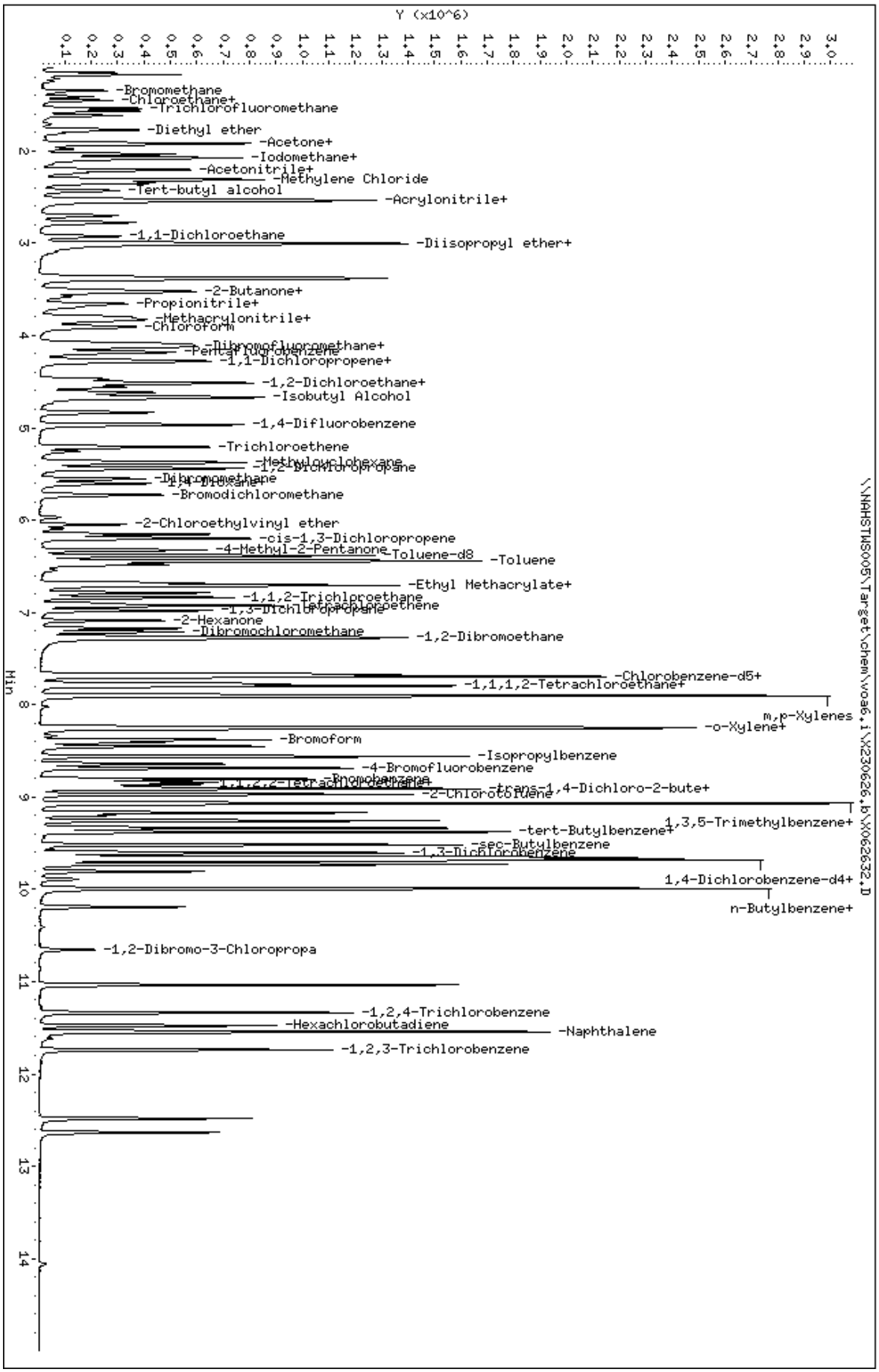
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	10 Acetone	43	1.981	1.981	(0.473)	94881	100.000	85.77
	11 1,1-Dichloroethene	96	1.921	1.921	(0.459)	149477	50.0000	45.02
	15 Iodomethane	142	2.033	2.033	(0.486)	523957	100.000	95.31
	16 Acrylonitrile	53	2.539	2.539	(0.607)	117586	100.000	87.36
	17 Methylene Chloride	84	2.307	2.307	(0.551)	201738	50.0000	43.02
	18 Methyl tert-butyl ether	73	2.539	2.539	(0.607)	516525	50.0000	44.58
	19 Carbon Disulfide	76	2.074	2.074	(0.496)	894388	100.000	75.66
	20 trans-1,2-Dichloroethene	96	2.536	2.536	(0.606)	174844	50.0000	44.01
	21 Vinyl Acetate	43	3.000	3.000	(0.717)	933380	100.000	88.03
	22 1,1-Dichloroethane	63	2.925	2.925	(0.699)	316156	50.0000	44.18
	24 2-Butanone	43	3.581	3.581	(0.856)	128463	100.000	92.06
	26 2,2-Dichloropropane	77	3.510	3.510	(0.839)	246383	50.0000	43.63
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.842)	209704	50.0000	45.77
	28 Chloroform	83	3.908	3.908	(0.934)	336198	50.0000	43.65
	29 Bromochloromethane	128	3.795	3.795	(0.907)	112684	50.0000	46.16
$	30 Dibromofluoromethane	113	4.099	4.099	(0.979)	181823	50.0000	48.00
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.976)	281355	50.0000	45.19
	32 1,1-Dichloropropene	75	4.282	4.282	(0.863)	246916	50.0000	45.29
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	248609	50.0000	45.50
	34 Carbon Tetrachloride	117	4.267	4.267	(0.860)	239597	50.0000	45.69
$	35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.069)	186483	50.0000	45.54
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	650628	50.0000	
	37 Benzene	78	4.515	4.515	(0.909)	770339	50.0000	46.02
	38 Trichloroethene	130	5.208	5.208	(1.049)	223743	50.0000	48.48
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	266782	50.0000	45.06
	41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	128954	100.000	80.49
	42 1,2-Dichloropropane	63	5.437	5.437	(1.095)	201334	50.0000	45.83
	44 Dibromomethane	93	5.553	5.553	(1.119)	130193	50.0000	47.21
	45 4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	348512	100.000	87.84
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	336407	50.0000	46.08
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	614182	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	733728	50.0000	47.25
	50 Toluene	91	6.445	6.445	(0.841)	855358	50.0000	47.43
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	280792	50.0000	45.97
	52 2-Hexanone	43	7.086	7.086	(0.924)	241371	100.000	91.07
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	162619	50.0000	46.29
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	333044	50.0000	46.89
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	238013	50.0000	47.80
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	174360	50.0000	47.02
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	214188	50.0000	47.70
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	164708	50.0000	41.62
	59 Chlorobenzene	112	7.690	7.690	(1.003)	589183	50.0000	47.75
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	218137	50.0000	47.41
	61 Ethylbenzene	106	7.799	7.799	(1.017)	299192	50.0000	47.06
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	758582	100.000	96.77
	63 o-Xylene	106	8.237	8.237	(1.074)	365283	50.0000	46.70
	64 Styrene	104	8.256	8.256	(1.077)	631643	50.0000	49.02
	66 Bromoform	173	8.410	8.410	(1.097)	169564	50.0000	48.85
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	896775	50.0000	46.38
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	267735	50.0000	42.74
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	310386	50.0000	51.78
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	356180	50.0000	

71 1,2,3-Trichloropropane	75	8.863	8.863 (0.917)	209165	50.0000	46.57(M)
73 n-Propylbenzene	91	8.908	8.908 (0.922)	1056546	50.0000	45.07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
	74 Bromobenzene	156	8.803	8.803	(0.911)	271842	50.0000	46.82	
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	786048	50.0000	45.70	
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	656260	50.0000	44.09	
	77 4-Chlorotoluene	91	9.069	9.069	(0.939)	765462	50.0000	46.10	
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	648603	50.0000	45.26	
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	794799	50.0000	45.80	
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	912858	50.0000	45.17	
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	811402	50.0000	45.86	
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	479578	50.0000	46.39	
	84 1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	501540	50.0000	45.33	
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	701877	50.0000	46.57	
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	477860	50.0000	46.59	
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	47574	50.0000	46.56	
	90 1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	340787	50.0000	47.76	
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	150360	50.0000	46.95	
	92 Naphthalene	128	11.540	11.540	(1.194)	759744	50.0000	47.30	
	93 1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	312815	50.0000	47.64	
M	94 1,2-Dichloroethylene (total)	96				384548	100.000		(a)
	141 Cyclohexane	56	4.125	4.125	(0.986)	251801	50.0000	46.58	
	138 Freon TF	101	1.921	1.921	(0.459)	147443	50.0000	49.98	
	147 Methylcyclohexane	55	5.381	5.381	(1.084)	436756	50.0000	48.03	
	146 Methyl Acetate	43	2.236	2.236	(0.534)	111984	50.0000	44.61	
	148 Tert-Butyl alcohol	59	2.431	2.431	(0.581)	341417	1000.00	784.10	
	149 Isopropyl Alcohol	45	2.101	2.101	(0.502)	183663	1000.00	764.17	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 26-JUN-2023 23:26
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LabSampID : CCV-END

1,2,3-Trichloropropane (96-18-4)

Reason Code:

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06-Jul-2023
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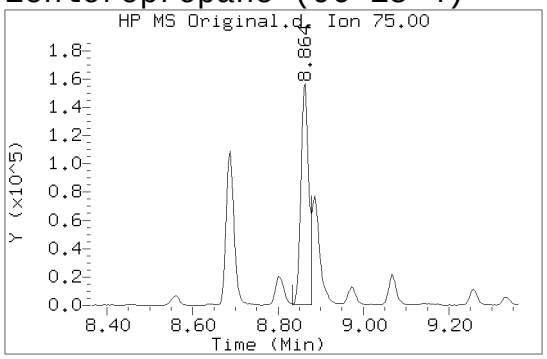

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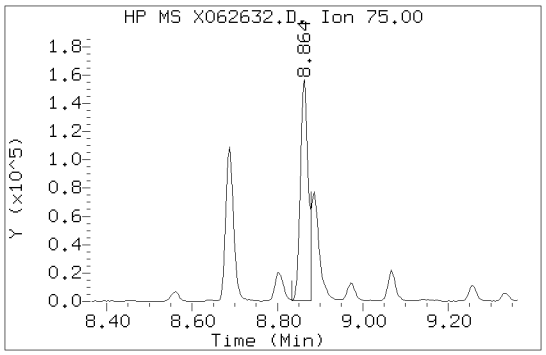

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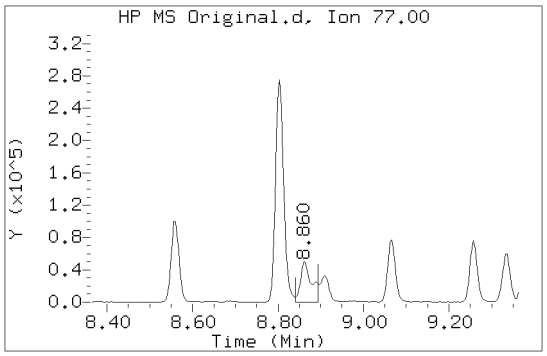

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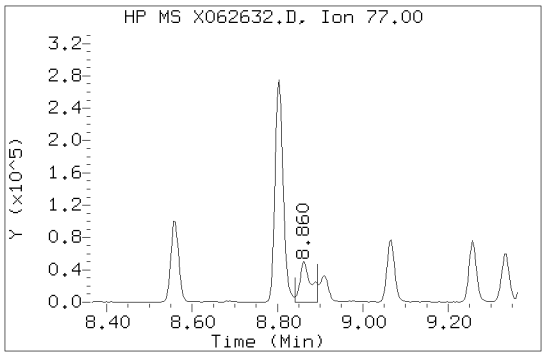

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right partner.

Raw Data VOA6 440138

Volatiles by EPA 8260

Workorder

HS23061712

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062801.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 28-JUN-2023 11:35
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\bfb.m
Meth Date : 14-Mar-2023 15:45 Linh.Pham 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: NAHSTW7051

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		
8.687	8.889	(0.000)	95	225216			0.00- 100.00	100.00
8.687	8.889	(0.000)	50	33800			15.00- 40.00	15.01
8.687	8.889	(0.000)	75	97800			30.00- 60.00	43.42
8.687	8.889	(0.000)	96	14712			5.00- 9.00	6.53
8.687	8.889	(0.000)	173	1724			0.00- 2.00	0.79
8.687	8.889	(0.000)	174	218944			50.00- 0.00	97.22
8.687	8.889	(0.000)	175	17424			5.00- 9.00	7.96
8.687	8.889	(0.000)	176	216064			95.00- 101.00	98.68
8.687	8.889	(0.000)	177	12437			5.00- 9.00	5.76

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.01
75	30.00 - 60.00% of mass 95	43.42
96	5.00 - 9.00% of mass 95	6.53
173	Less than 2.00% of mass 174	0.77 (0.79)
174	Greater than 50.00% of mass 95	97.22
175	5.00 - 9.00% of mass 174	7.74 (7.96)
176	95.00 - 101.00% of mass 174	95.94 (98.68)
177	5.00 - 9.00% of mass 176	5.52 (5.76)

Data File: X062801.D
Spectrum: Scan 2161 (8.69)
Location of Maximum: 95.00
Number of points: 116

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1619	67.00	596	103.80	1115	139.90	198
37.00	7527	68.00	18464	105.00	491	140.90	1606
38.00	5700	69.10	21032	105.90	934	141.90	184
39.00	3561	70.00	1868	106.80	483	143.00	1679
40.00	1437	71.00	346	108.70	140	145.00	161
41.10	581	71.90	1248	109.20	79	145.90	281
42.10	1151	73.00	7524	109.90	162	147.00	76
43.10	748	74.00	31512	110.90	181	147.90	632
44.00	1523	75.00	97800	111.70	84	148.90	242
45.00	1738	76.10	8022	112.80	196	150.00	167
46.10	125	76.90	1253	114.90	293	151.90	156
47.10	2635	77.90	666	115.90	774	153.00	174
47.80	962	78.90	4563	116.90	1348	153.80	206
49.00	7199	80.00	1411	117.90	723	154.90	648
50.00	33800	80.90	4547	118.90	1213	156.90	437
51.10	10486	81.90	1234	120.10	122	157.70	69
52.10	471	83.00	389	121.20	67	158.80	310
53.20	197	85.00	112	121.80	99	160.80	307
53.90	94	85.90	542	122.90	53	171.00	149
55.10	2220	87.00	9438	123.80	66	173.00	1724
56.00	2890	88.00	8871	124.80	58	173.90	218944
57.00	5660	90.90	815	125.90	87	175.00	17424
58.00	512	92.00	5071	126.70	113	175.90	216064
58.80	123	93.00	7516	127.90	675	176.90	12437
60.10	1492	94.00	23760	128.90	516	177.90	542
61.00	8409	95.00	225216	129.90	828	277.90	64
62.00	8553	96.00	14712	131.00	276		
63.10	5780	97.10	355	134.80	338		
64.10	687	98.00	852	136.00	65		
65.00	160	103.00	171	136.90	353		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062801.D Page 1

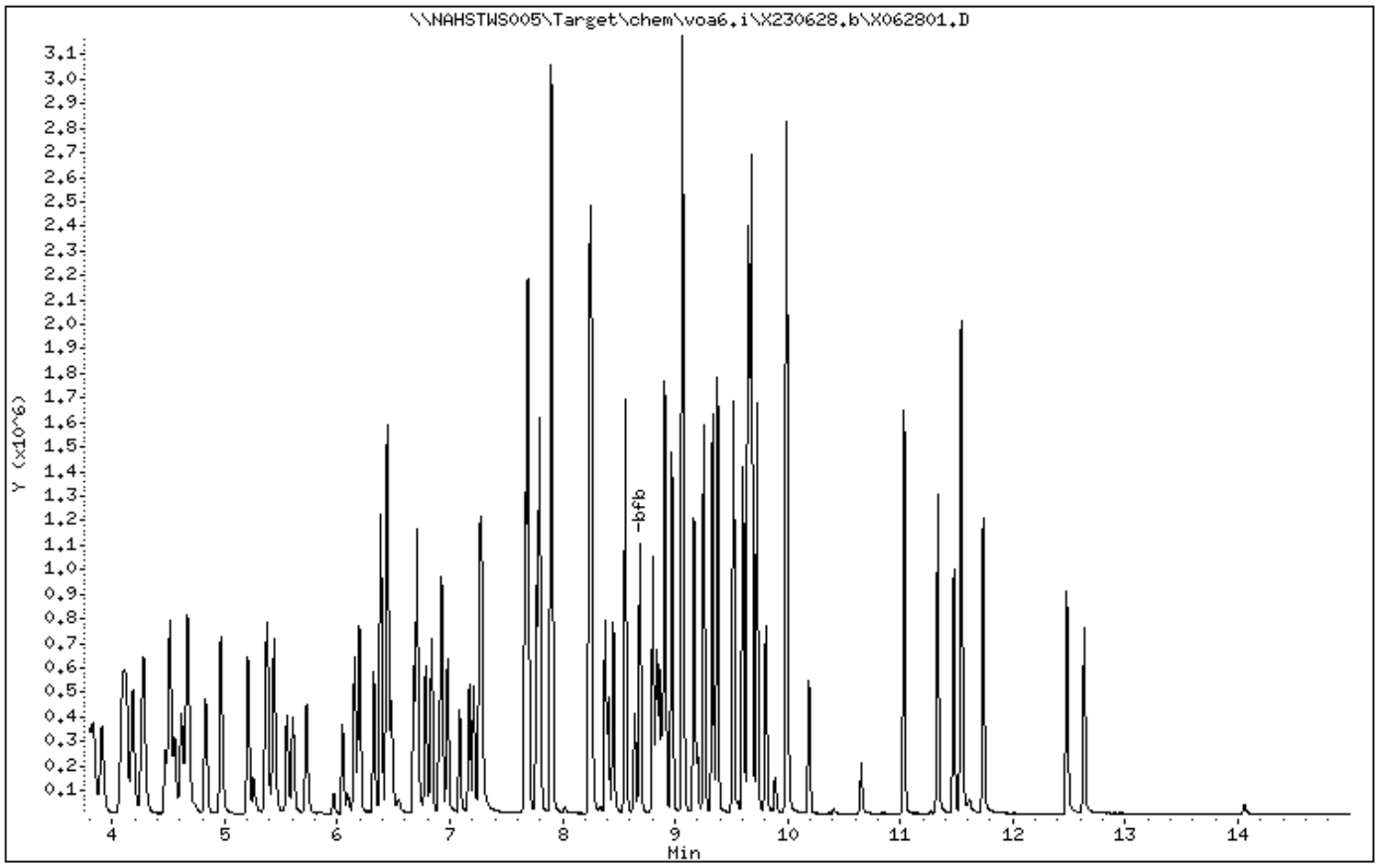
Date : 28-JUN-2023 11:35

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062801.D

Date : 28-JUN-2023 11:35

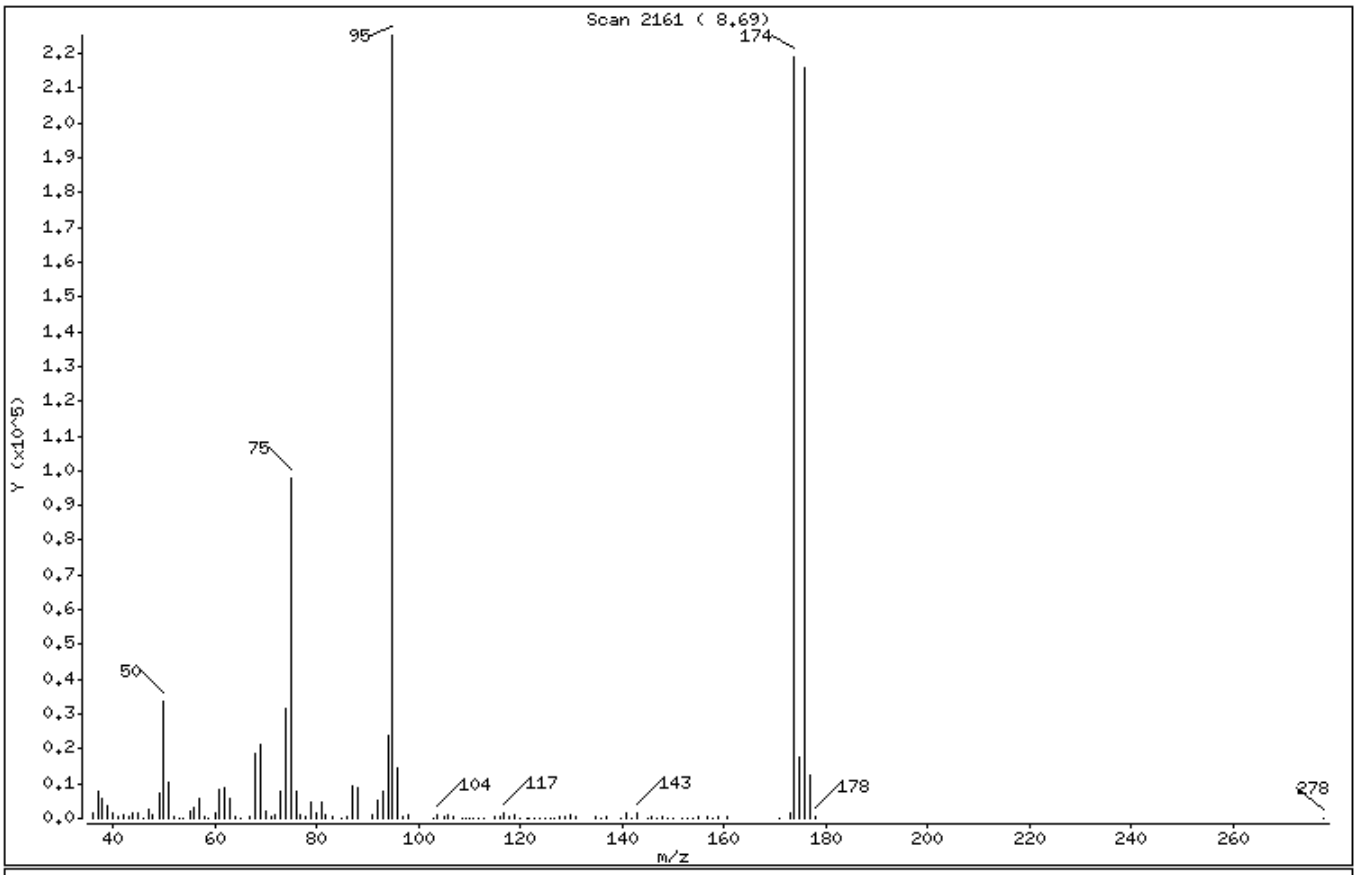
Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
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174	Greater than 50.00% of mass 95	97.22
175	5.00 - 9.00% of mass 174	7.74 (7.96)
176	95.00 - 101.00% of mass 174	95.94 (98.68)
177	5.00 - 9.00% of mass 176	5.52 (5.76)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062801.D

Date : 28-JUN-2023 11:35

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

Data File: X062801.D
Spectrum: Scan 2161 (8.69)
Location of Maximum: 95.00
Number of points: 116

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1619	67.00	596	103.80	1115	139.90	198
37.00	7527	68.00	18464	105.00	491	140.90	1606
38.00	5700	69.10	21032	105.90	934	141.90	184
39.00	3561	70.00	1868	106.80	483	143.00	1679
40.00	1437	71.00	346	108.70	140	145.00	161
41.10	581	71.90	1248	109.20	79	145.90	281
42.10	1151	73.00	7524	109.90	162	147.00	76
43.10	748	74.00	31512	110.90	181	147.90	632
44.00	1523	75.00	97800	111.70	84	148.90	242
45.00	1738	76.10	8022	112.80	196	150.00	167
46.10	125	76.90	1253	114.90	293	151.90	156
47.10	2635	77.90	666	115.90	774	153.00	174
47.80	962	78.90	4563	116.90	1348	153.80	206
49.00	7199	80.00	1411	117.90	723	154.90	648
50.00	33800	80.90	4547	118.90	1213	156.90	437
51.10	10486	81.90	1234	120.10	122	157.70	69
52.10	471	83.00	389	121.20	67	158.80	310
53.20	197	85.00	112	121.80	99	160.80	307
53.90	94	85.90	542	122.90	53	171.00	149
55.10	2220	87.00	9438	123.80	66	173.00	1724
56.00	2890	88.00	8871	124.80	58	173.90	218944
57.00	5660	90.90	815	125.90	87	175.00	17424
58.00	512	92.00	5071	126.70	113	175.90	216064
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62.00	8553	96.00	14712	131.00	276		
63.10	5780	97.10	355	134.80	338		
64.10	687	98.00	852	136.00	65		
65.00	160	103.00	171	136.90	353		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062803.D Page 1
Report Date: 06-Jul-2023 12:06

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062803.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 28-JUN-2023 12:17
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\8260W.m
Meth Date : 06-Jul-2023 12:06 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.181	(1.000)	445170	50.0000	
135 1,4-Dioxane	88	5.595	5.595	(1.338)	57196	1000.00	1060.17
140 1,3-Butadiene	54	1.171	1.171	(0.280)	148742	50.0000	40.31
25 Methacrylonitrile	41	3.825	3.825	(0.915)	157099	50.0000	42.76
12 Isobutyl Alcohol	43	4.676	4.676	(1.118)	506637	1000.00	872.82
13 Acetonitrile	39	2.202	2.202	(0.527)	176697	500.000	409.22
14 Allyl Chloride	41	2.202	2.202	(0.527)	396287	50.0000	40.59
4 Propionitrile	54	3.653	3.653	(0.874)	236277	500.000	438.86
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	70660	50.0000	47.20
194 Acetaldehyde	44	1.216	1.216	(0.291)	39832	200.000	169.50(M)
23 Chloroprene	53	1.775	1.775	(0.425)	61885	50.0000	41.82(M)
130 Ethyl Acetate	43	3.657	3.657	(0.875)	183515	50.0000	40.44
40 Methyl Methacrylate	41	5.606	5.606	(1.341)	150538	50.0000	43.68
49 Ethyl Methacrylate	69	6.708	6.708	(1.351)	197312	50.0000	42.16
131 Methyl Acrylate	55	3.690	3.690	(0.883)	174131	50.0000	48.29
136 n-Hexane	57	2.776	2.776	(0.664)	195784	50.0000	48.13
139 Diethyl ether	59	1.764	1.764	(0.422)	120729	50.0000	43.28
156 Diisopropyl ether	45	3.001	3.001	(0.718)	537478	50.0000	40.93
166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	833761	50.0000	49.59
2 Dichlorodifluoromethane	85	0.980	0.980	(0.234)	173875	50.0000	45.38

3 Chloromethane	50	1.085	1.085 (0.260)	208872	50.0000	44.50
5 Vinyl Chloride	62	1.149	1.149 (0.275)	197782	50.0000	42.30

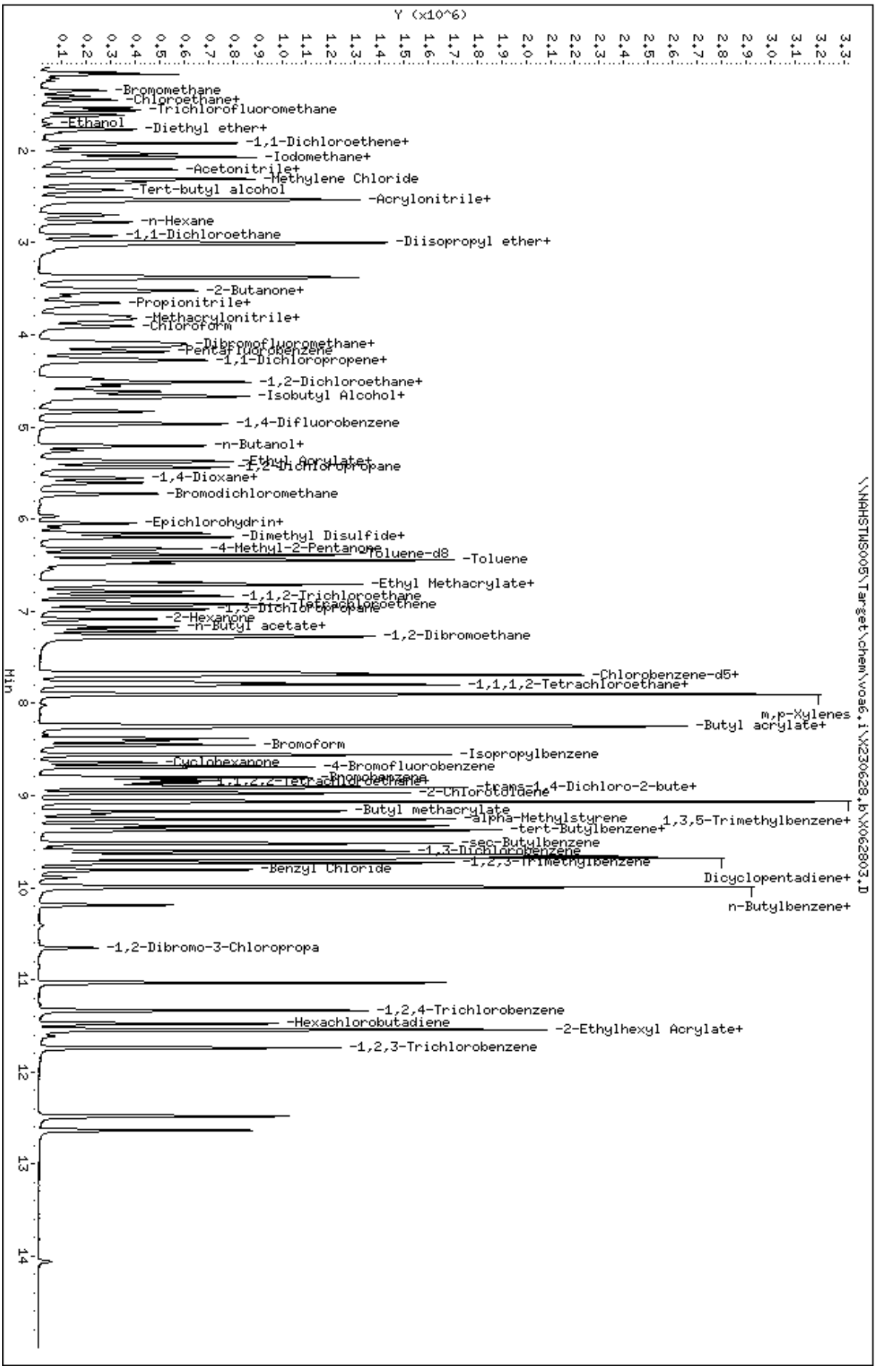
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	6 Bromomethane	94	1.344	1.344	(0.321)	129082	50.0000	48.09
	7 Chloroethane	64	1.407	1.407	(0.337)	126230	50.0000	44.17
	8 Trichlorofluoromethane	101	1.565	1.565	(0.374)	254344	50.0000	45.78
	9 Acrolein	56	1.452	1.452	(0.347)	24883	100.000	90.07
	10 Acetone	43	1.977	1.977	(0.473)	93148	100.000	80.19(M)
	11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	153448	50.0000	44.02
	15 Iodomethane	142	2.034	2.034	(0.486)	597776	100.000	103.26
	16 Acrylonitrile	53	2.536	2.536	(0.606)	119101	100.000	84.28
	17 Methylene Chloride	84	2.307	2.307	(0.552)	216533	50.0000	43.98
	18 Methyl tert-butyl ether	73	2.540	2.540	(0.607)	523423	50.0000	43.02
	19 Carbon Disulfide	76	2.075	2.075	(0.496)	1047937	100.000	84.44
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	191092	50.0000	45.82
	21 Vinyl Acetate	43	3.001	3.001	(0.718)	1009795	100.000	90.71
	22 1,1-Dichloroethane	63	2.922	2.922	(0.699)	329718	50.0000	43.88
	24 2-Butanone	43	3.578	3.578	(0.856)	130263	100.000	88.91
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	276853	50.0000	46.69
	27 cis-1,2-Dichloroethene	96	3.529	3.529	(0.844)	224284	50.0000	46.63
	28 Chloroform	83	3.908	3.908	(0.935)	355817	50.0000	44.00
	29 Bromochloromethane	128	3.795	3.795	(0.908)	125707	50.0000	49.05
$	30 Dibromofluoromethane	113	4.099	4.099	(0.980)	188522	50.0000	47.40
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.977)	288035	50.0000	44.07
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	257031	50.0000	46.98
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	255557	50.0000	46.62
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	251386	50.0000	47.78
$	35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.070)	187697	50.0000	43.62
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	652801	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	814368	50.0000	48.49
	38 Trichloroethene	130	5.209	5.209	(1.049)	240164	50.0000	51.87
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	283522	50.0000	47.73
	41 2-Chloroethylvinyl ether	63	6.045	6.045	(1.217)	160796	100.000	100.03
	42 1,2-Dichloropropane	63	5.434	5.434	(1.094)	212129	50.0000	48.12
	44 Dibromomethane	93	5.553	5.553	(1.119)	140762	50.0000	50.87
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.825)	359629	100.000	90.52
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	364040	50.0000	49.70
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	614999	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	736810	50.0000	47.38
	50 Toluene	91	6.446	6.446	(0.841)	907252	50.0000	50.25
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	308263	50.0000	50.30
	52 2-Hexanone	43	7.083	7.083	(0.924)	246905	100.000	93.04
	53 1,1,2-Trichloroethane	83	6.836	6.836	(0.891)	176456	50.0000	50.16
	54 1,3-Dichloropropane	76	6.978	6.978	(0.910)	355873	50.0000	50.03
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	260927	50.0000	52.34
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	192297	50.0000	51.79
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	229492	50.0000	51.04
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	175371	50.0000	44.17
	59 Chlorobenzene	112	7.690	7.690	(1.003)	640022	50.0000	51.80
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	242462	50.0000	52.63
	61 Ethylbenzene	106	7.795	7.795	(1.017)	318366	50.0000	50.01
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	823241	100.000	104.88
	63 o-Xylene	106	8.238	8.238	(1.074)	397400	50.0000	50.73
	64 Styrene	104	8.256	8.256	(1.077)	691285	50.0000	53.58
	66 Bromoform	173	8.410	8.410	(1.097)	192723	50.0000	55.45

67	Isopropylbenzene	105	8.560	8.560 (1.116)	958645	50.0000	49.51
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837 (0.915)	300039	50.0000	48.24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	293762	50.0000	48.91
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	353668	50.0000	
	71 1,2,3-Trichloropropane	75	8.860	8.860	(0.917)	230678	50.0000	51.72(M)
	73 n-Propylbenzene	91	8.909	8.909	(0.922)	1130641	50.0000	48.58
	74 Bromobenzene	156	8.804	8.804	(0.911)	308281	50.0000	53.48
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	846503	50.0000	49.56
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	705871	50.0000	47.76
	77 4-Chlorotoluene	91	9.066	9.066	(0.938)	826581	50.0000	50.14
	78 tert-Butylbenzene	119	9.332	9.332	(0.966)	700326	50.0000	49.22
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	869960	50.0000	50.49
	81 sec-Butylbenzene	105	9.520	9.520	(0.985)	978606	50.0000	48.77
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	880816	50.0000	50.13
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	532320	50.0000	51.86
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	560121	50.0000	50.98
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	760381	50.0000	50.81
	88 1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	534918	50.0000	52.52
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	56147	50.0000	55.29
	90 1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	392925	50.0000	55.46
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	174579	50.0000	54.90
	92 Naphthalene	128	11.540	11.540	(1.194)	879714	50.0000	55.16
	93 1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	365529	50.0000	56.07
M	94 1,2-Dichloroethylene (total)	96				415376	100.000	(a)
	141 Cyclohexane	56	4.121	4.121	(0.986)	245199	50.0000	43.20
	138 Freon TF	101	1.921	1.921	(0.459)	148210	50.0000	47.89
	147 Methylcyclohexane	55	5.381	5.381	(1.084)	439782	50.0000	48.20
	146 Methyl Acetate	43	2.236	2.236	(0.535)	109693	50.0000	41.63
	148 Tert-Butyl alcohol	59	2.431	2.431	(0.581)	395904	1000.00	866.04
	149 Isopropyl Alcohol	45	2.097	2.097	(0.502)	212890	1000.00	843.69

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\voa6.i\X230628.b\X062803.D
Date : 28-JUN-2023 12:17
Client ID: CCV
Sample Info: CCV,CCV,2,,
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

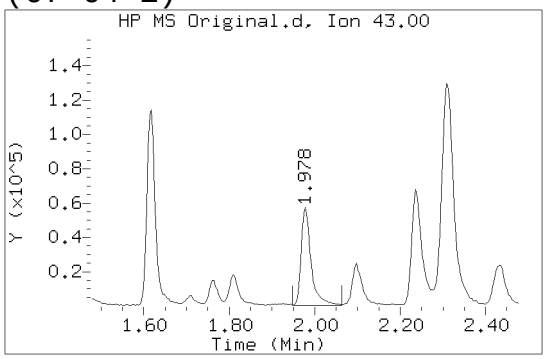
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062803.D
Inj Date : 28-JUN-2023 12:17
InstruID : voa6.i
LabSampID : CCV

Acetone (67-64-1)

Reason Code:

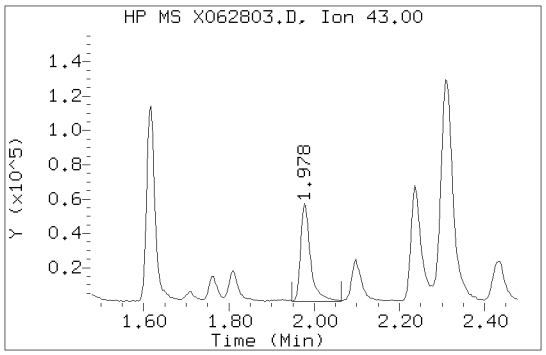
BEFORE

MASS
43
AREA
93148
HEIGHT
56902
06-Jul-2023
12:06
linh
pham



AFTER

MASS
43
AREA
93148
HEIGHT
56902
06-Jul-2023
12:06
linh
pham



BEFORE

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AREA
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HEIGHT
20806
06-Jul-2023
12:06
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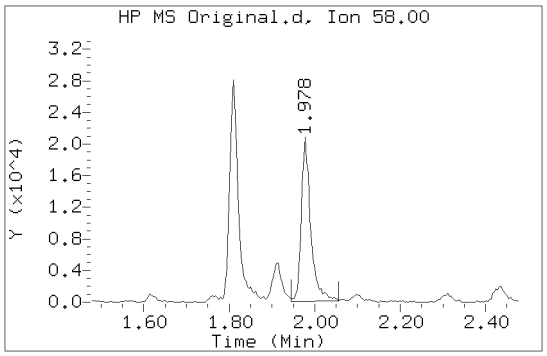
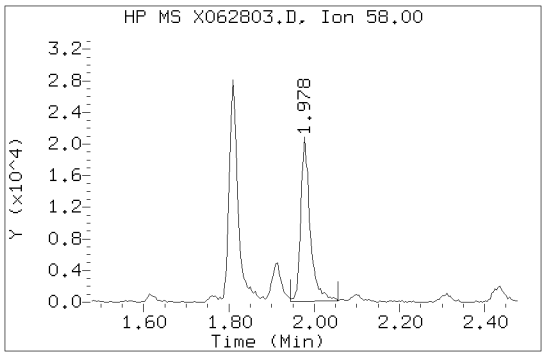
pham



AFTER

MASS
58
AREA
32584
HEIGHT
20806
06-Jul-2023
12:06
linh
pham



1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE

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AREA
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HEIGHT
168577
06-Jul-2023
12:06
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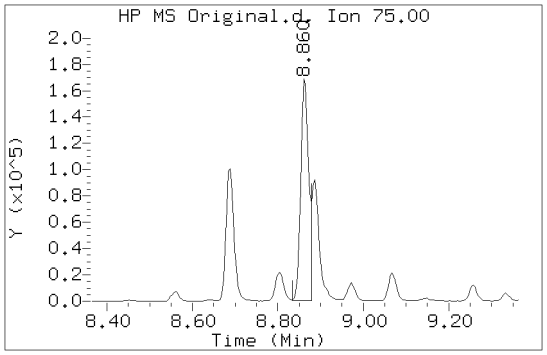
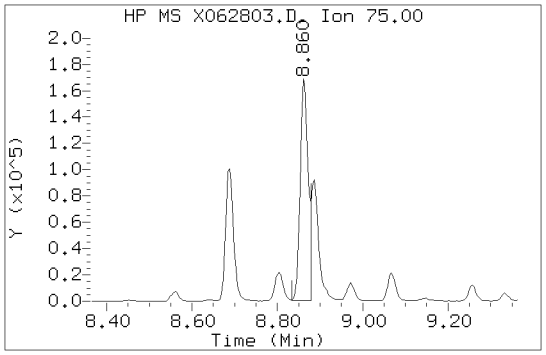
pham



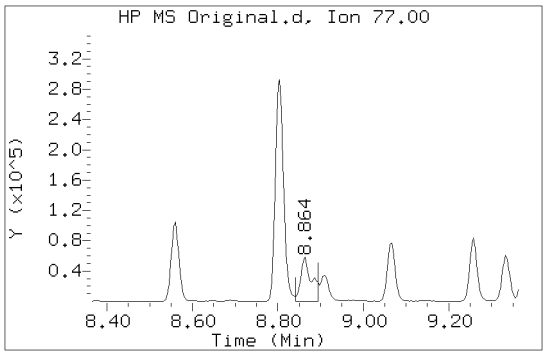
AFTER

MASS
75
AREA
230678
HEIGHT
168577
06-Jul-2023
12:06
linh
pham



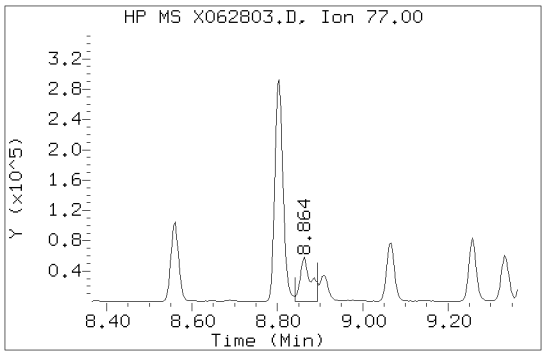
BEFORE

MASS
77
AREA
104019
HEIGHT
57698
06-Jul-2023
12:06
linh
pham



AFTER

MASS
77
AREA
104019
HEIGHT
57698
06-Jul-2023
12:06
linh
pham



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Inj Date : 28-JUN-2023 12:17
InstruID : voa6.i
LabSampID : CCV

Chloroprene (126-99-8)

Reason Code:

BEFORE
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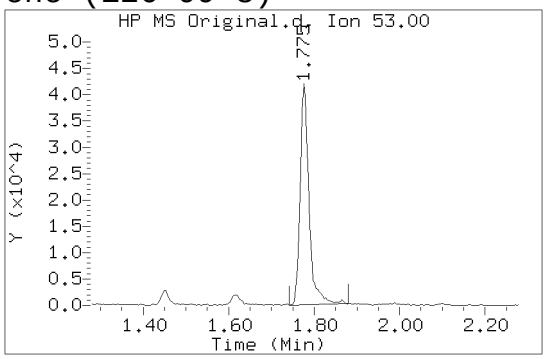
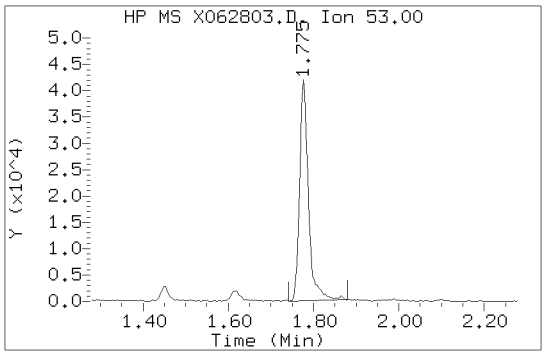
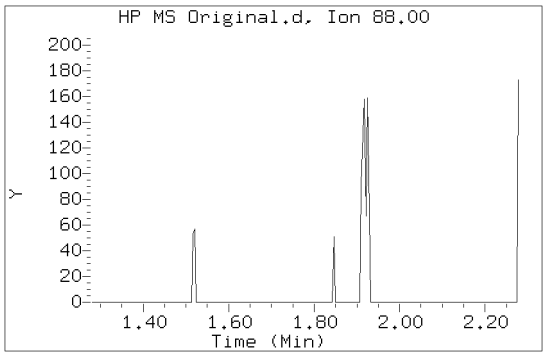
53
AREA
61885
HEIGHT
41997
06-Jul-2023
12:06
linh
pham



AFTER
MASS
53
AREA
61885
HEIGHT
41997
06-Jul-2023
12:06
linh
pham



BEFORE
MASS
88
AREA
0
HEIGHT
0
06-Jul-2023
12:06
linh
pham



AFTER
MASS
88
AREA
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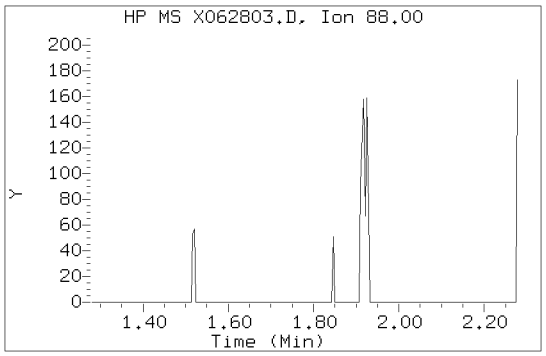
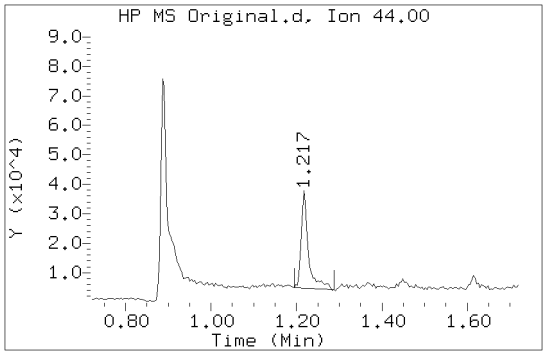
HEIGHT
0
06-Jul-2023
12:06
linh
pham



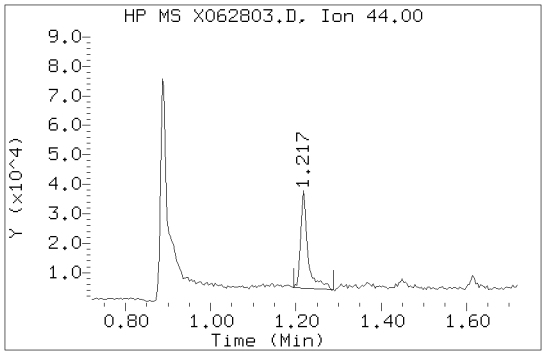
Acetaldehyde (75-07-0)

Reason Code:

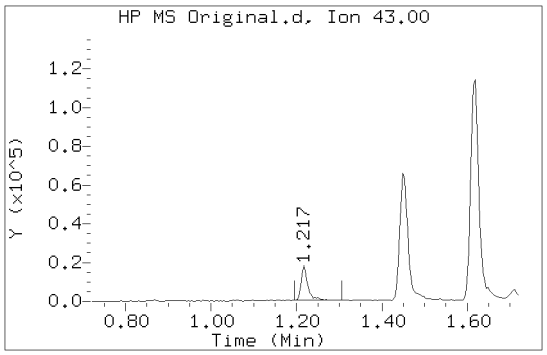
BEFORE
MASS
44
AREA
39832
HEIGHT
33002
06-Jul-2023
12:06
linh
pham



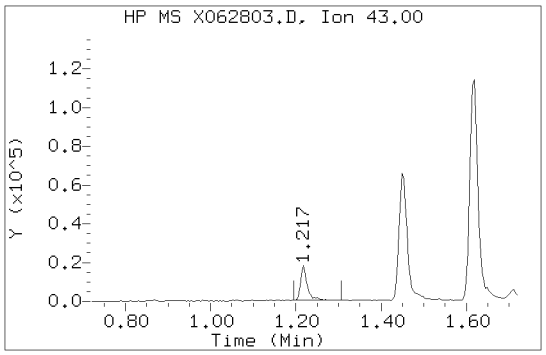
AFTER
MASS
44
AREA
39832
HEIGHT
33002
06-Jul-2023
12:06
linh
pham



BEFORE
MASS
43
AREA
20367
HEIGHT
17986
06-Jul-2023
12:06
linh
pham



AFTER
MASS
43
AREA
20367
HEIGHT
17986
06-Jul-2023
12:06
linh
pham



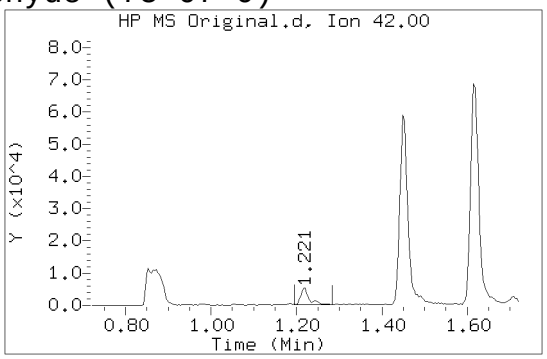
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062803.D
Inj Date : 28-JUN-2023 12:17
InstruID : voa6.i
LabSampID : CCV

Acetaldehyde (75-07-0)

Reason Code:

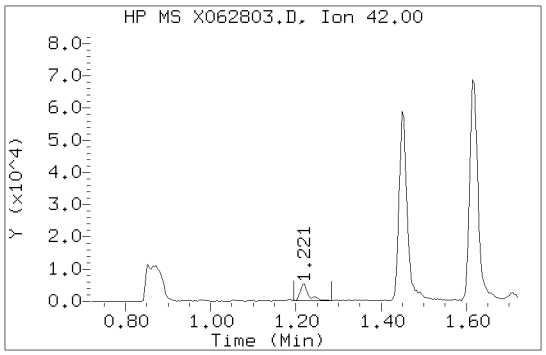
BEFORE

MASS
42
AREA
7281
HEIGHT
5252
06-Jul-2023
12:06
linh
pham



AFTER

MASS
42
AREA
7281
HEIGHT
5252
06-Jul-2023
12:06
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062804.D Page 1
Report Date: 06-Jul-2023 12:06

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062804.D
Lab Smp Id: CCB Client Smp ID: CCB
Inj Date : 28-JUN-2023 12:38
Operator : PC Inst ID: voa6.i
Smp Info : CCB;CCB;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\8260W.m
Meth Date : 06-Jul-2023 12:06 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.181	(1.000)	459438	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.980)	185085	45.0742	45.07
$ 35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.070)	182351	41.0201	41.02
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	640871	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	571078	50.0000	
$ 48 Toluene-d8	98	6.386	6.386	(0.833)	746788	51.7234	51.72
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	255747	45.8251	45.82
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	288006	50.0000	

01201633

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062804.D

Date : 28-JUN-2023 12:38

Client ID: CCB

Instrument: voa6.i

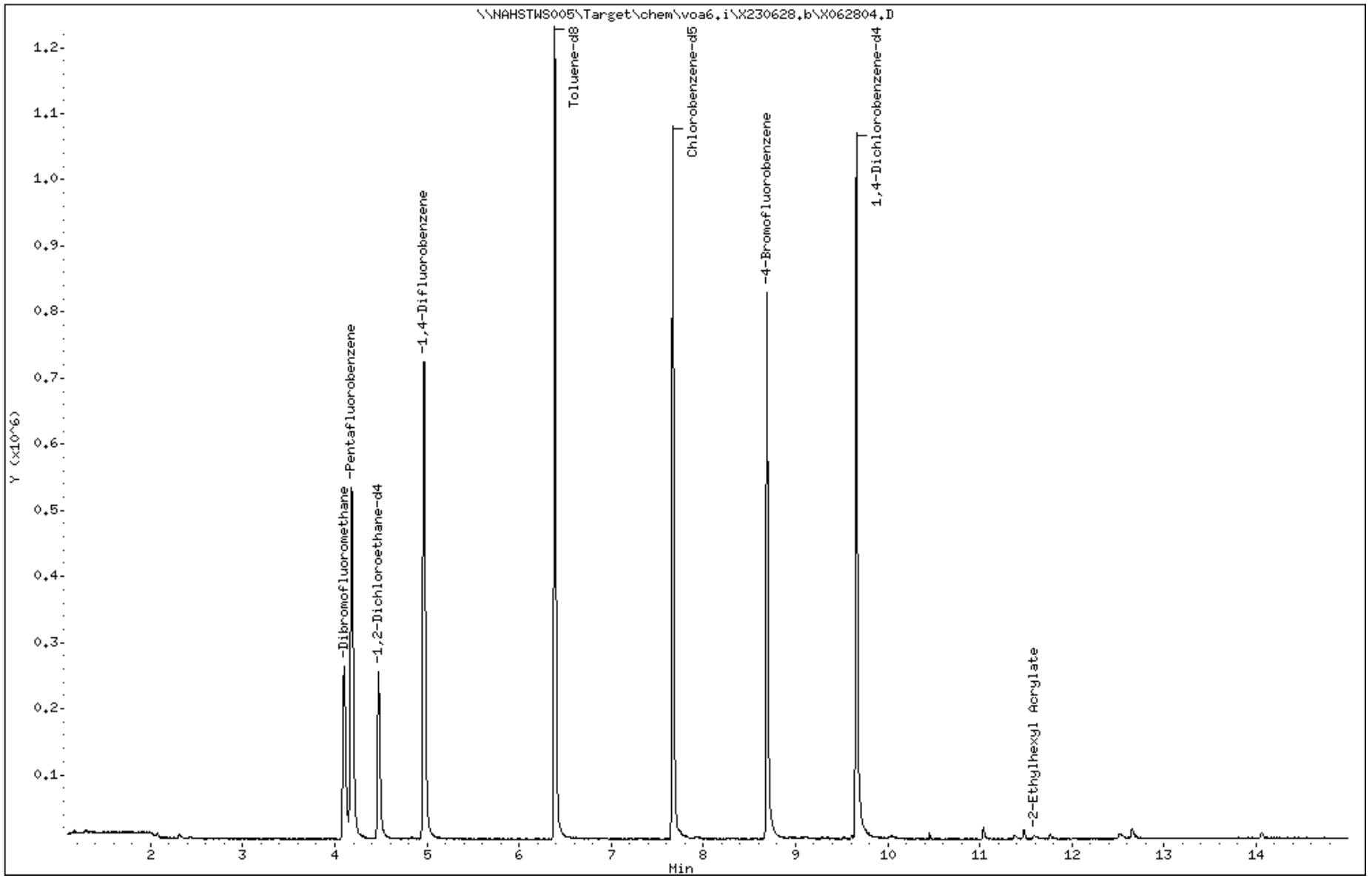
Sample Info: CCB;CCB;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062804.D
Inj Date : 28-JUN-2023 12:38
InstruID : voa6.i
LabSampID : CCB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062805.D Page 1
Report Date: 06-Jul-2023 12:06

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062805.D
Lab Smp Id: VLCSW-230628 Client Smp ID: VLCSW-230628
Inj Date : 28-JUN-2023 12:59
Operator : PC Inst ID: voa6.i
Smp Info : VLCSW-230628;VLCSW-230628;3;;LCS
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\8260W.m
Meth Date : 06-Jul-2023 12:06 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.181	(1.000)	436174	50.0000	
135 1,4-Dioxane	88	5.598	5.595	(1.339)	20573	389.204	389.20(a)
140 1,3-Butadiene	54	1.171	1.171	(0.280)	65516	18.1255	18.12
25 Methacrylonitrile	41	3.825	3.825	(0.915)	61370	17.0523	17.05
12 Isobutyl Alcohol	43	4.676	4.676	(1.118)	197920	348.006	348.00
13 Acetonitrile	39	2.206	2.202	(0.528)	70229	166.002	166.00
14 Allyl Chloride	41	2.206	2.202	(0.528)	157036	16.4172	16.41
4 Propionitrile	54	3.653	3.653	(0.874)	92815	175.952	175.95(a)
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	27104	18.4220	18.42
194 Acetaldehyde	44	1.216	1.216	(0.291)	14592	61.2186	61.21(M)
23 Chloroprene	53	1.779	1.775	(0.425)	27081	18.6801	18.68(M)
130 Ethyl Acetate	43	3.664	3.657	(0.876)	75761	17.0398	17.03
40 Methyl Methacrylate	41	5.606	5.606	(1.341)	57107	16.9126	16.91
49 Ethyl Methacrylate	69	6.708	6.708	(1.351)	73970	15.9679	15.96
131 Methyl Acrylate	55	3.698	3.690	(0.884)	56044	15.8647	15.86
136 n-Hexane	57	2.779	2.776	(0.665)	80008	20.5888	20.58
139 Diethyl ether	59	1.764	1.764	(0.422)	50642	18.5325	18.53
156 Diisopropyl ether	45	3.004	3.001	(0.719)	214177	16.6494	16.64
166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	329717	19.8697	19.86
2 Dichlorodifluoromethane	85	0.980	0.980	(0.234)	71991	19.3710	19.37

3 Chloromethane	50	1.085	1.085 (0.260)	91611	20.4881	20.48
5 Vinyl Chloride	62	1.149	1.149 (0.275)	86656	18.9174	18.91

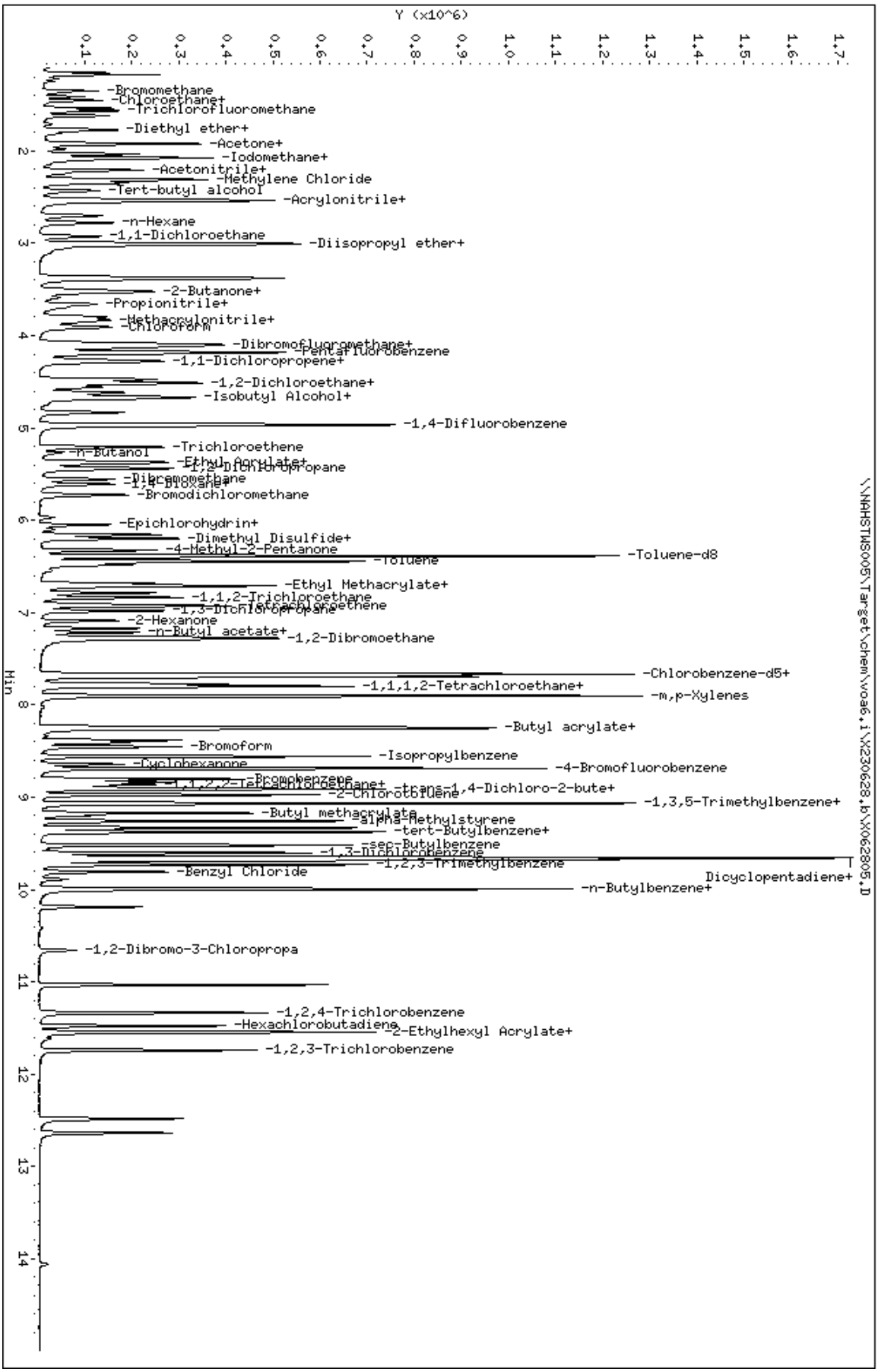
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	6 Bromomethane	94	1.347	1.344	(0.322)	55096	20.9537	20.95
	7 Chloroethane	64	1.411	1.407	(0.338)	54898	19.6060	19.60
	8 Trichlorofluoromethane	101	1.565	1.565	(0.374)	102613	18.8506	18.85
	9 Acrolein	56	1.449	1.452	(0.347)	10506	38.8173	38.81
	10 Acetone	43	1.977	1.977	(0.473)	36775	32.1502	32.15
	11 1,1-Dichloroethene	96	1.921	1.917	(0.459)	64779	18.9700	18.96
	15 Iodomethane	142	2.033	2.034	(0.486)	210420	38.8819	38.88
	16 Acrylonitrile	53	2.543	2.536	(0.608)	46382	33.5008	33.50
	17 Methylene Chloride	84	2.311	2.307	(0.553)	90882	18.8415	18.84
	18 Methyl tert-butyl ether	73	2.540	2.540	(0.607)	207722	17.4285	17.42
	19 Carbon Disulfide	76	2.075	2.075	(0.496)	431018	35.4480	35.44
	20 trans-1,2-Dichloroethene	96	2.536	2.532	(0.606)	77640	19.0008	19.00
	21 Vinyl Acetate	43	3.004	3.001	(0.719)	392192	35.9610	35.96
	22 1,1-Dichloroethane	63	2.926	2.922	(0.700)	133151	18.0886	18.08
	24 2-Butanone	43	3.589	3.578	(0.858)	45694	31.8330	31.83
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	112388	19.3448	19.34
	27 cis-1,2-Dichloroethene	96	3.529	3.529	(0.844)	89889	19.0764	19.07
	28 Chloroform	83	3.908	3.908	(0.935)	141092	17.8084	17.80
	29 Bromochloromethane	128	3.799	3.795	(0.909)	48607	19.3581	19.35
$	30 Dibromofluoromethane	113	4.103	4.099	(0.981)	183643	47.1241	47.12
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.977)	114871	17.9387	17.93
	32 1,1-Dichloropropene	75	4.283	4.279	(0.863)	103148	19.0466	19.04
	33 1,2-Dichloroethane	62	4.560	4.556	(0.918)	103310	19.0379	19.03
	34 Carbon Tetrachloride	117	4.268	4.264	(0.860)	97829	18.7833	18.78
$	35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.070)	181287	42.9964	42.99
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	646299	50.0000	
	37 Benzene	78	4.515	4.511	(0.909)	327921	19.7251	19.72
	38 Trichloroethene	130	5.209	5.209	(1.049)	95416	20.8164	20.81
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	111117	18.8952	18.89
	41 2-Chloroethylvinyl ether	63	6.048	6.045	(1.218)	62815	39.4737	39.47
	42 1,2-Dichloropropane	63	5.437	5.434	(1.095)	85081	19.4977	19.49
	44 Dibromomethane	93	5.553	5.553	(1.119)	55328	20.1981	20.19
	45 4-Methyl-2-Pentanone	43	6.326	6.322	(0.825)	139212	35.6513	35.65
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	141675	19.5392	19.53
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	604485	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	723710	47.3548	47.35
	50 Toluene	91	6.446	6.446	(0.841)	366722	20.6650	20.66
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	117398	19.3516	19.35
	52 2-Hexanone	43	7.087	7.083	(0.924)	92523	35.4725	35.47
	53 1,1,2-Trichloroethane	83	6.835	6.836	(0.891)	68402	19.7850	19.78
	54 1,3-Dichloropropane	76	6.978	6.978	(0.910)	138354	19.7922	19.79
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	98931	20.1910	20.19
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	76551	20.9770	20.97
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	88585	20.0463	20.04
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	75213	19.1367	19.13
	59 Chlorobenzene	112	7.694	7.690	(1.003)	255464	21.0386	21.03
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	90724	20.0371	20.03
	61 Ethylbenzene	106	7.799	7.795	(1.017)	129682	20.7289	20.72
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	333328	43.2052	43.20
	63 o-Xylene	106	8.241	8.238	(1.075)	160914	20.9024	20.90
	64 Styrene	104	8.260	8.256	(1.077)	273259	21.5496	21.54
	66 Bromoform	173	8.410	8.410	(1.097)	69725	20.4123	20.41

67	Isopropylbenzene	105	8.560	8.560 (1.116)	392638	20.6344	20.63
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837 (0.915)	115399	18.7992	18.79

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	286490	48.5280	48.52
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	349101	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.860	(0.917)	83106	18.8802	18.88
	73 n-Propylbenzene	91	8.912	8.909	(0.922)	463378	20.1709	20.17
	74 Bromobenzene	156	8.803	8.804	(0.911)	119953	21.0818	21.08
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	341832	20.2788	20.27
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	288133	19.7510	19.75
	77 4-Chlorotoluene	91	9.070	9.066	(0.939)	330534	20.3127	20.31
	78 tert-Butylbenzene	119	9.332	9.332	(0.966)	287426	20.4668	20.46
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	343512	20.1983	20.19
	81 sec-Butylbenzene	105	9.519	9.520	(0.985)	398584	20.1240	20.12
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	355915	20.5248	20.52
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	213356	21.0593	21.05
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	226448	20.8822	20.88
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	305792	20.7047	20.70
	88 1,2-Dichlorobenzene	146	9.992	9.988	(1.034)	211249	21.0148	21.01
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	20495	20.6129	20.61
	90 1,2,4-Trichlorobenzene	180	11.338	11.334	(1.173)	149773	21.4182	21.41
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	68142	21.7091	21.70
	92 Naphthalene	128	11.544	11.540	(1.195)	325317	20.6657	20.66
	93 1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	140314	21.8065	21.80
M	94 1,2-Dichloroethylene (total)	96				167529	38.0773	38.07
M	95 Xylenes (total)	106				494242	64.1076	64.10
	141 Cyclohexane	56	4.121	4.121	(0.986)	106615	19.1753	19.17
	138 Freon TF	101	1.921	1.921	(0.459)	63079	21.0392	21.03
	147 Methylcyclohexane	55	5.385	5.381	(1.085)	172520	19.0993	19.09
	146 Methyl Acetate	43	2.240	2.236	(0.536)	42360	16.4080	16.40
	148 Tert-Butyl alcohol	59	2.431	2.431	(0.581)	146571	327.239	327.23
	149 Isopropyl Alcohol	45	2.101	2.097	(0.503)	80013	323.636	323.63

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\voa6.i\x230628.b\x062805.D
Date : 28-JUN-2023 12:59
Client ID: VLCSW-230628
Sample Info: VLCSW-230628;VLCSW-230628;3;;LCS
Purge Volume: 5.0
Column phase: DB624

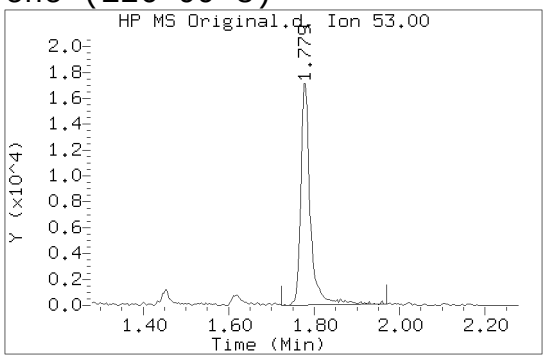
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062805.D
Inj Date : 28-JUN-2023 12:59
InstruID : voa6.i
LabSampID : VLCSW-230628

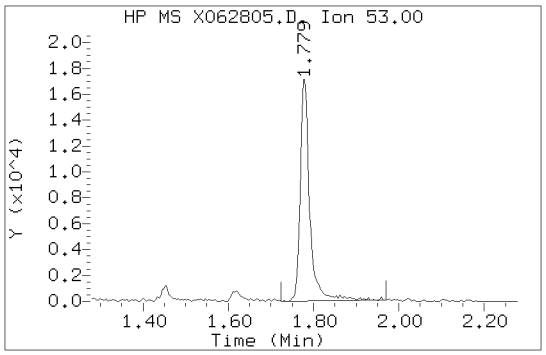
Chloroprene (126-99-8)

Reason Code:

BEFORE
MASS
53
AREA
27081
HEIGHT
17103
06-Jul-2023
12:06
linh
pham



AFTER
MASS
53
AREA
27081
HEIGHT
17103
06-Jul-2023
12:06
linh
pham



BEFORE
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AREA
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HEIGHT
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06-Jul-2023
12:06
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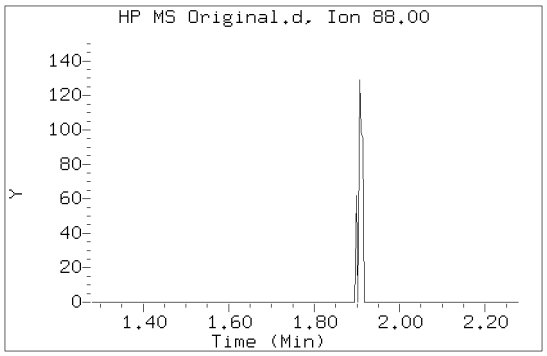

AFTER
MASS
88
AREA
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HEIGHT
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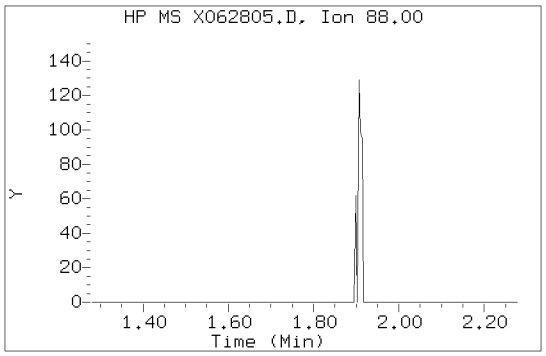
06-Jul-2023
12:06
linh
pham



Acetaldehyde (75-07-0)

Reason Code:

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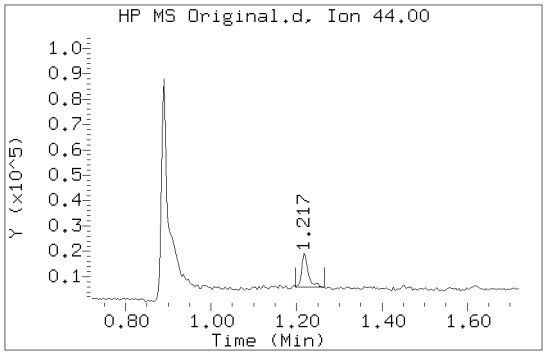
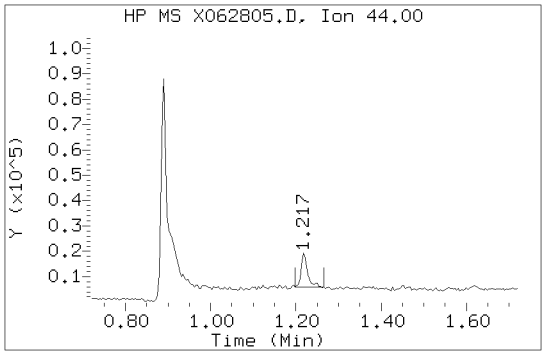
MASS
44
AREA
14592
HEIGHT
13433
06-Jul-2023
12:06
linh
pham



AFTER
MASS
44
AREA
14592
HEIGHT
13433
06-Jul-2023
12:06
linh
pham



BEFORE
MASS
43
AREA
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HEIGHT
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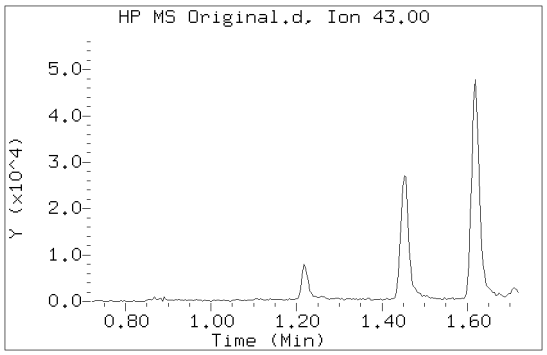
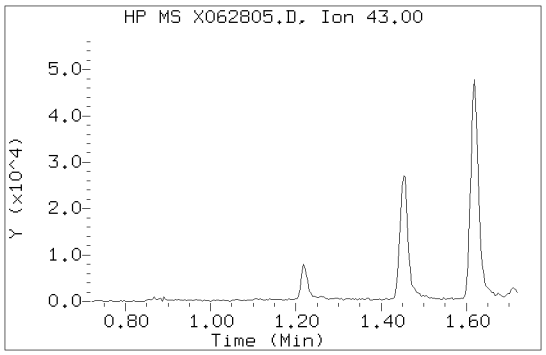
06-Jul-2023
12:06
linh
pham



AFTER
MASS
43
AREA
0
HEIGHT
0
06-Jul-2023
12:06
linh
pham



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062805.D
Inj Date : 28-JUN-2023 12:59
InstruID : voa6.i
LabSampID : VLCSW-230628

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

MASS
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AREA
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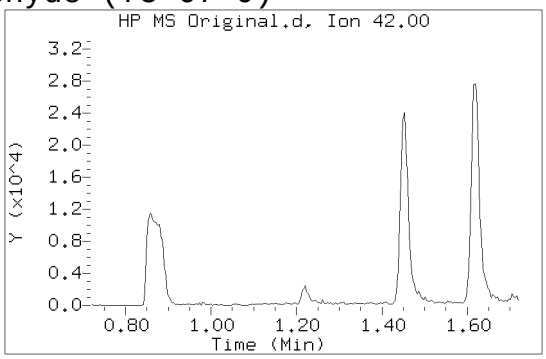
HEIGHT
0
06-Jul-2023
12:06
linh
pham



AFTER

MASS
42
AREA
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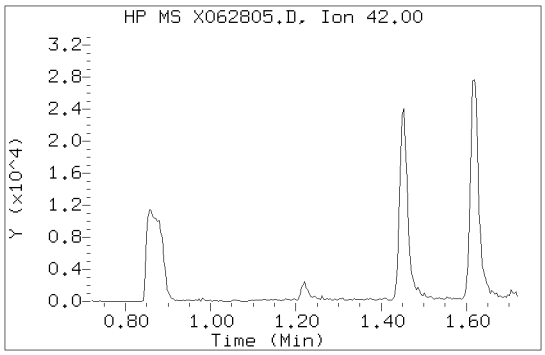
HEIGHT
0
06-Jul-2023
12:06
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062807.D Page 1
Report Date: 06-Jul-2023 12:06

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062807.D
Lab Smp Id: VBLKW-230628 Client Smp ID: VBLKW-230628
Inj Date : 28-JUN-2023 13:41
Operator : PC Inst ID: voa6.i
Smp Info : VBLKW-230628;VBLKW-230628;3;;BLANK
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\8260W.m
Meth Date : 06-Jul-2023 12:06 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.185	4.181	(1.000)	460197	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.099	(0.980)	180865	43.9654	43.96
$ 35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.069)	180528	40.5330	40.53
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	633322	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.668	(1.000)	567901	50.0000	
$ 48 Toluene-d8	98	6.386	6.386	(0.832)	733653	51.0979	51.09
$ 69 4-Bromofluorobenzene	95	8.691	8.687	(1.133)	257730	46.4459	46.44
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	290927	50.0000	

01201644

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062807.D

Date : 28-JUN-2023 13:41

Client ID: VBLKW-230628

Instrument: voa6.i

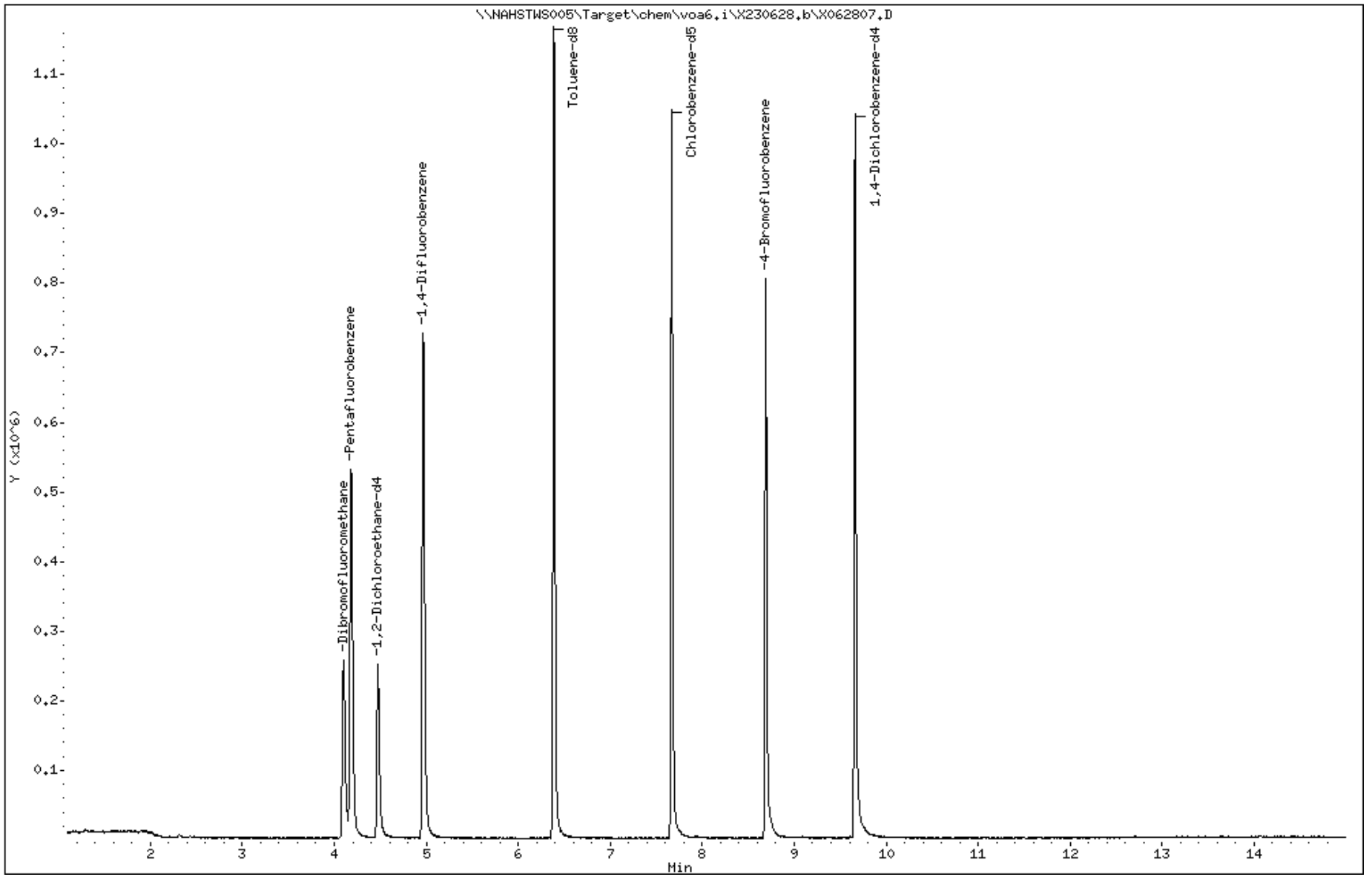
Sample Info: VBLKW-230628;VBLKW-230628;3;;BLANK

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062807.D
Inj Date : 28-JUN-2023 13:41
InstruID : voa6.i
LabSampID : VBLKW-230628

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062809.D Page 1
Report Date: 06-Jul-2023 12:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062809.D
Lab Smp Id: HS23061712-02 Client Smp ID: HS230611712-02
Inj Date : 28-JUN-2023 14:23
Operator : PC Inst ID: voa6.i
Smp Info : HS23061712-02;HS230611712-02;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\8260W.m
Meth Date : 06-Jul-2023 12:06 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.181	(1.000)	444707	50.0000	
$ 30 Dibromofluoromethane	113	4.102	4.099	(0.981)	179544	45.1739	45.17
$ 35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.070)	180216	41.9008	41.90
* 36 1,4-Difluorobenzene	114	4.968	4.965	(1.000)	620400	50.0000	
38 Trichloroethene	130	5.220	5.209	(1.051)	9545	2.16931	2.16(a)
* 47 Chlorobenzene-d5	117	7.671	7.668	(1.000)	545755	50.0000	
$ 48 Toluene-d8	98	6.385	6.386	(0.832)	721383	52.2821	52.28
$ 69 4-Bromofluorobenzene	95	8.691	8.687	(1.133)	252068	47.2784	47.27
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	280595	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01201647

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062809.D

Page 1

Date : 28-JUN-2023 14:23

Client ID: HS230611712-02

Instrument: voa6.i

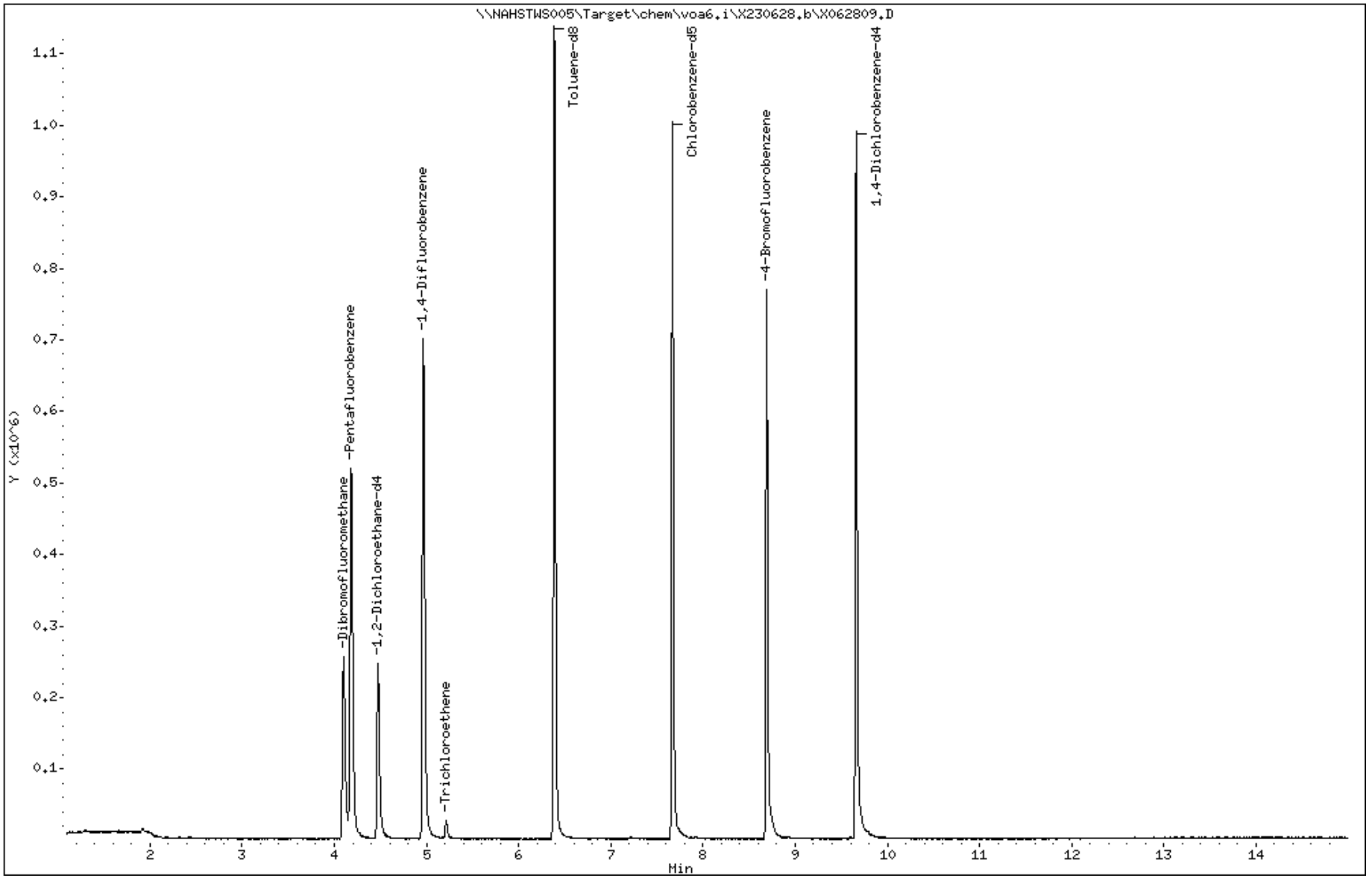
Sample Info: HS23061712-02;HS230611712-02;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062809.D

Date : 28-JUN-2023 14:23

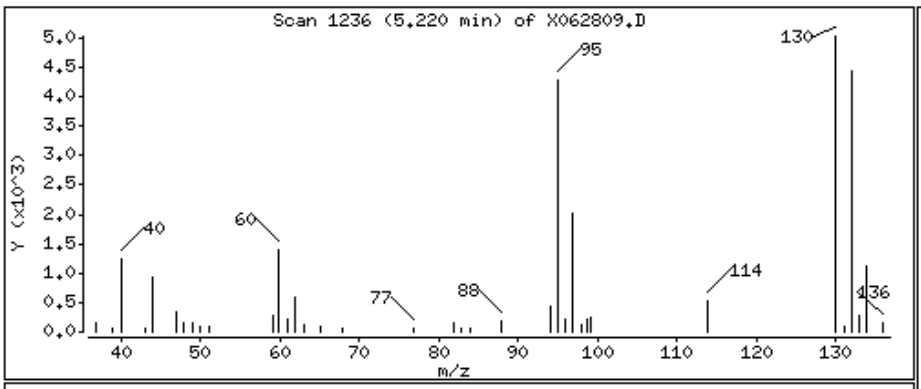
Client ID: HS230611712-02 Instrument: voa6.i

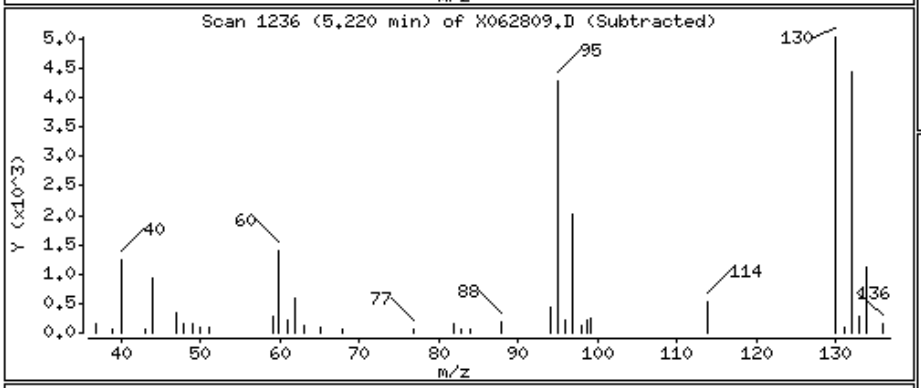
Sample Info: HS23061712-02;HS230611712-02;;;

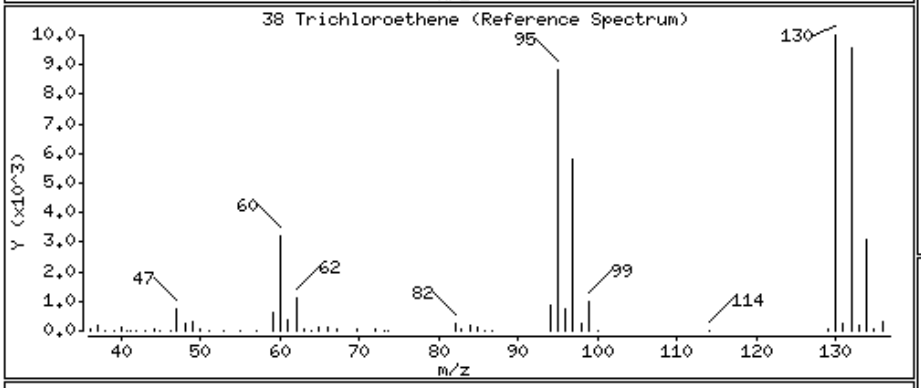
Purge Volume: 5.0 Operator: PC

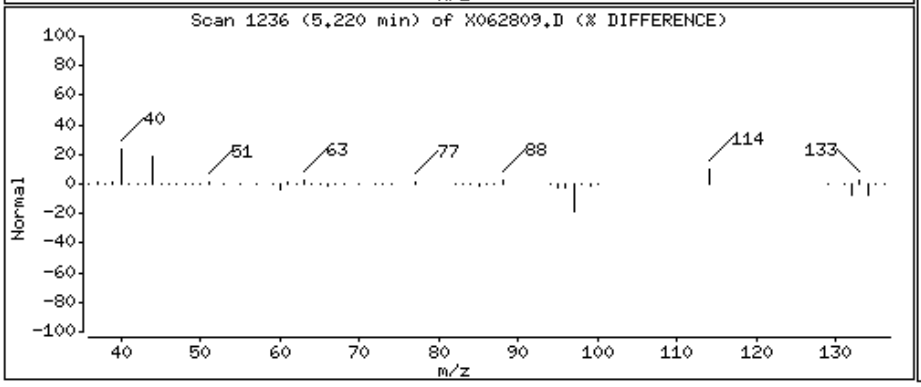
Column phase: DB624 Column diameter: 0.18

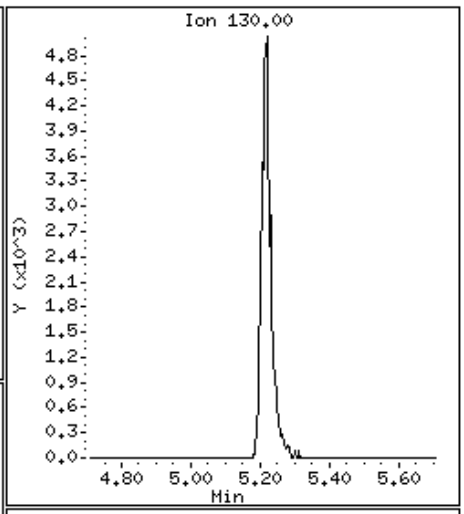
38 Trichloroethene Concentration: 2.16 ug/l

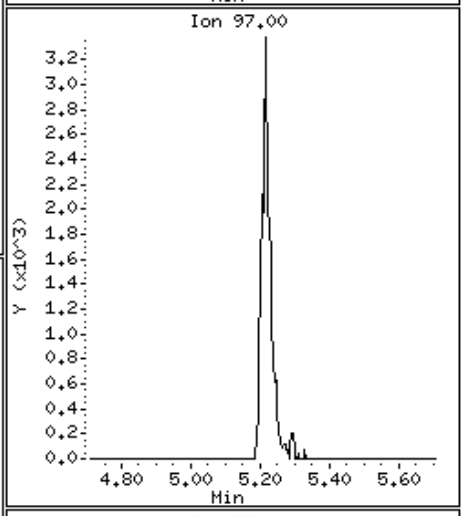


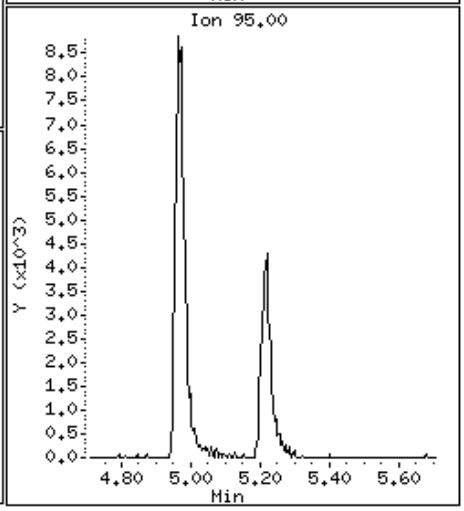












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062809.D
Inj Date : 28-JUN-2023 14:23
InstruID : voa6.i
LabSampID : HS23061712-02

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062810.D Page 1
Report Date: 06-Jul-2023 12:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062810.D
Lab Smp Id: HS23061712-05 Client Smp ID: HS230611712-05
Inj Date : 28-JUN-2023 14:44
Operator : PC Inst ID: voa6.i
Smp Info : HS23061712-05;HS230611712-05;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\8260W.m
Meth Date : 06-Jul-2023 12:06 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.185	4.181	(1.000)	443113	50.0000	
	17 Methylene Chloride	84	2.299	2.307	(0.549)	19109877	3899.79	3899.78(A)
	20 trans-1,2-Dichloroethene	96	2.539	2.532	(0.607)	19566	4.71341	4.71(a)
	22 1,1-Dichloroethane	63	2.937	2.922	(0.702)	5407	0.72304	0.72(a)
	27 cis-1,2-Dichloroethene	96	3.525	3.529	(0.842)	6611764	1381.19	1381.18(A)
	28 Chloroform	83	3.915	3.908	(0.936)	30574	3.79857	3.79(a)
	29 Bromochloromethane	128	3.810	3.795	(0.910)	11299	4.42945	4.42(a)
$	30 Dibromofluoromethane	113	4.099	4.099	(0.979)	180842	45.6680	45.66
$	35 1,2-Dichloroethane-d4	65	4.470	4.474	(1.068)	175580	40.9506	40.95
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	617205	50.0000	
	37 Benzene	78	4.522	4.511	(0.911)	51726	3.25809	3.25(a)
	38 Trichloroethene	130	5.208	5.209	(1.049)	302445	69.0930	69.09
*	47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	562195	50.0000	
$	48 Toluene-d8	98	6.385	6.386	(0.833)	719152	50.5963	50.59
	50 Toluene	91	6.449	6.446	(0.841)	49243	2.98360	2.98(a)
	56 Tetrachloroethene	164	6.933	6.925	(0.904)	4077	1.20125	1.20(a)
	61 Ethylbenzene	106	7.806	7.795	(1.018)	6114	1.05080	1.05(a)
	62 m,p-Xylenes	106	7.911	7.900	(1.032)	7174	0.99982	0.99(a)
	63 o-Xylene	106	8.252	8.238	(1.076)	5432	0.75868	0.75(a)
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	261966	47.7028	47.70

*	70	1,4-Dichlorobenzene-d4	152	9.662	9.662 (1.000)	315305	50.0000	
M	94	1,2-Dichloroethylene (total)	96			6631330	1385.90	1385.90

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
M 95 Xylenes (total)	106				12606	1.75851	1.75(a)
141 Cyclohexane	56	4.121	4.121	(0.985)	18796	3.32763	3.32(a)

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.

01201653

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062810.D

Date : 28-JUN-2023 14:44

Client ID: HS230611712-05

Instrument: voa6.i

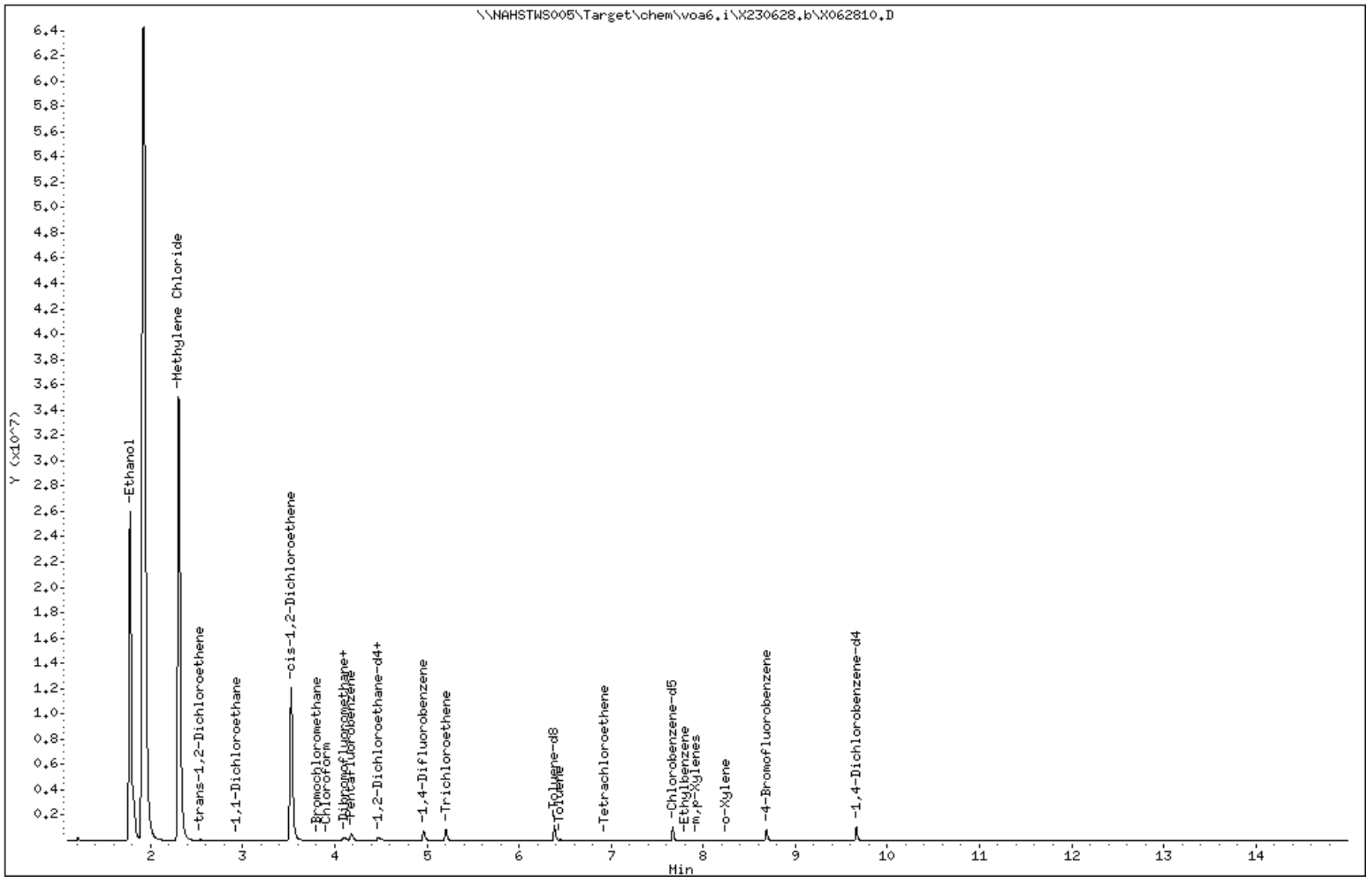
Sample Info: HS23061712-05;HS230611712-05;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062810.D

Date : 28-JUN-2023 14:44

Client ID: HS230611712-05

Instrument: voa6.i

Sample Info: HS23061712-05;HS230611712-05;;;

Purge Volume: 5.0

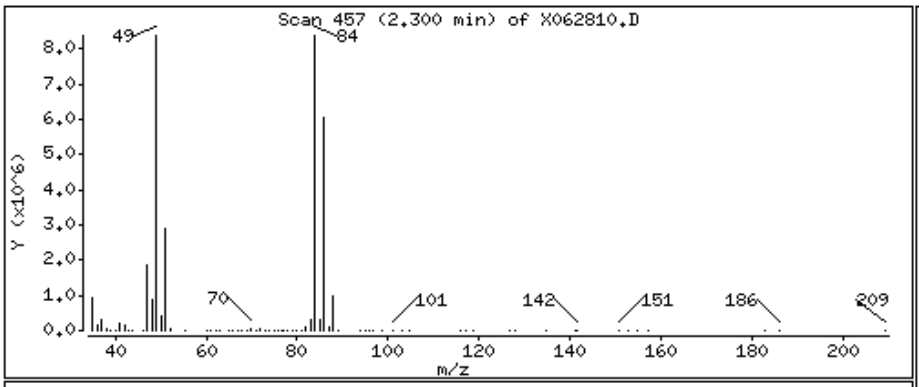
Operator: PC

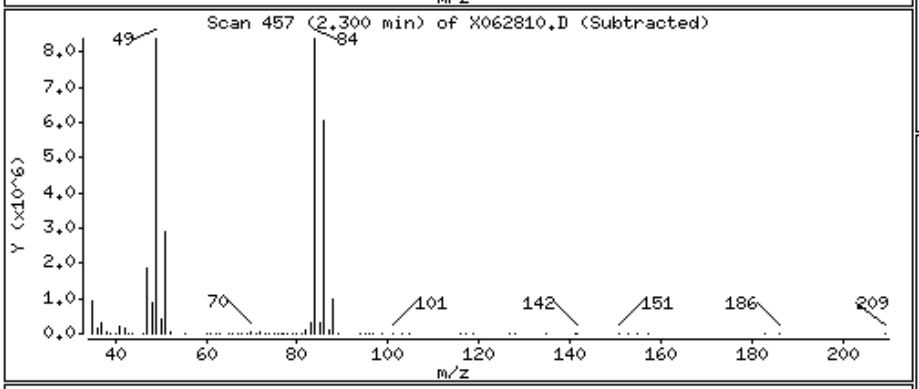
Column phase: DB624

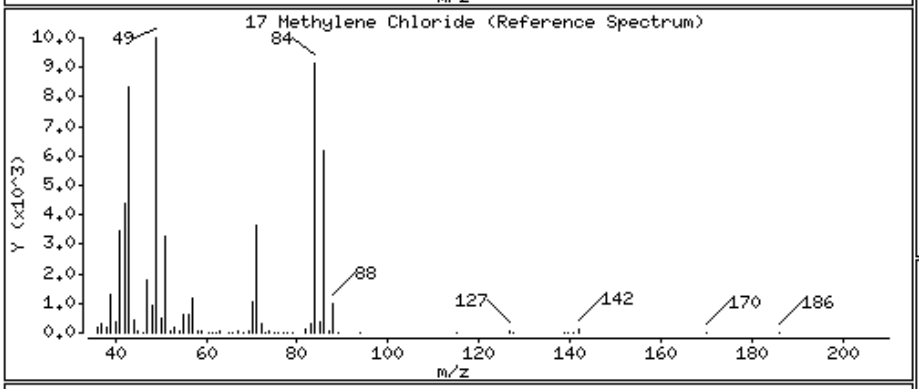
Column diameter: 0.18

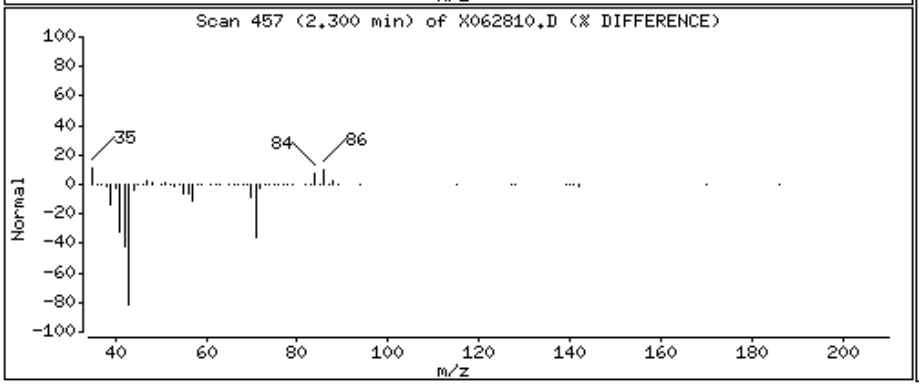
17 Methylene Chloride

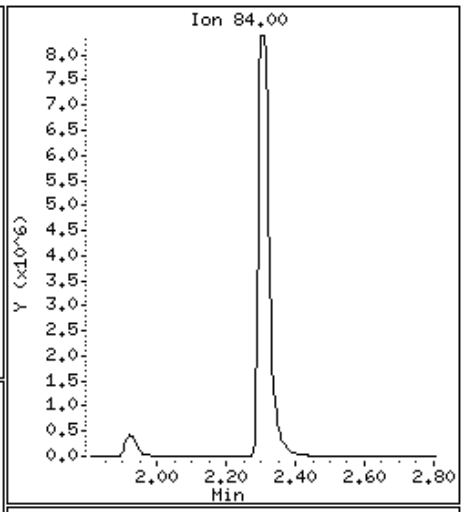
Concentration: 3899.78 ug/l

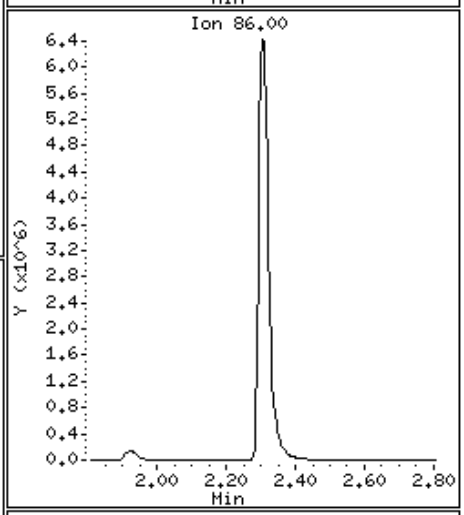


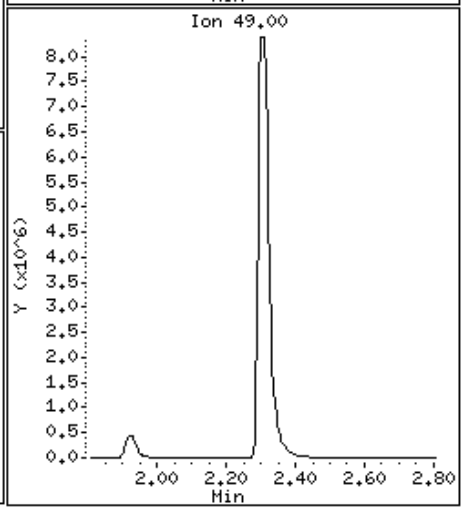












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062810.D Page 3

Date : 28-JUN-2023 14:44

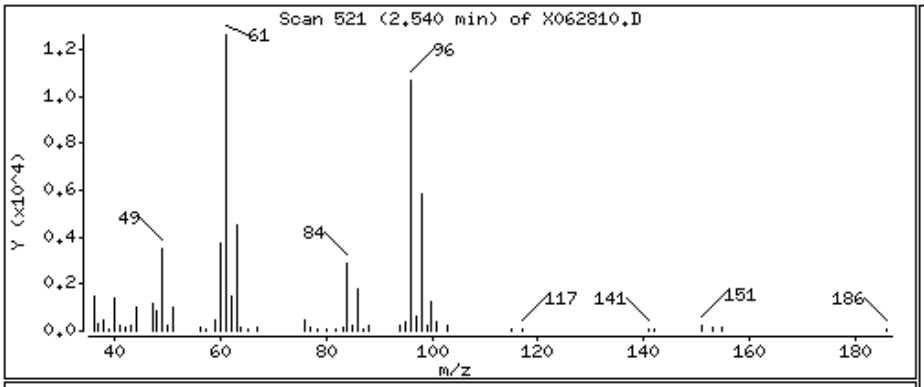
Client ID: HS230611712-05 Instrument: voa6.i

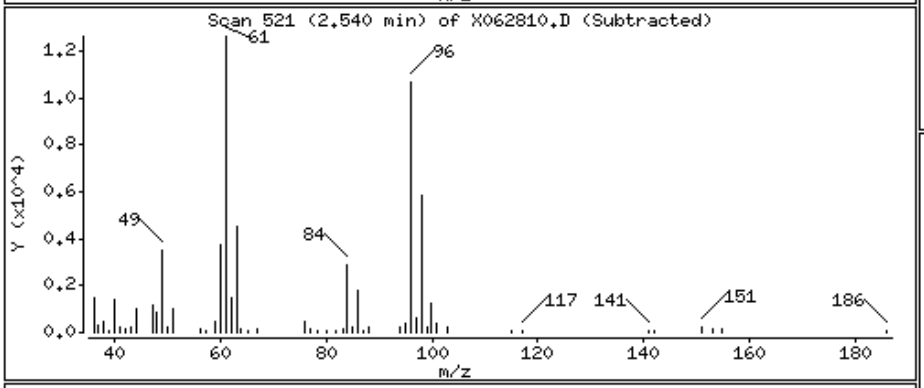
Sample Info: HS23061712-05;HS230611712-05;;;

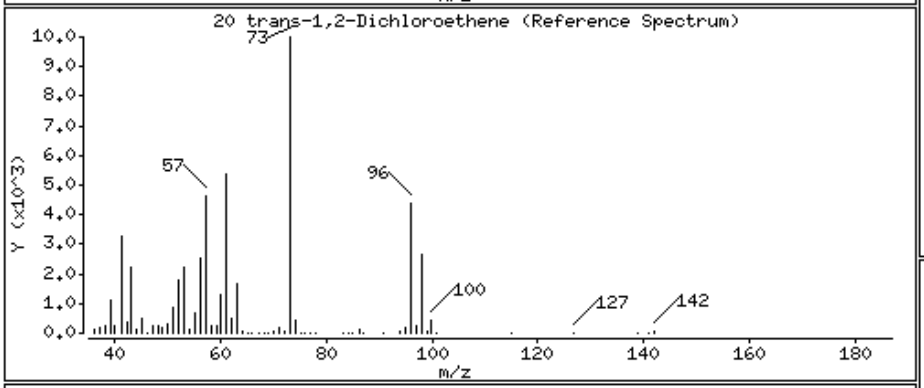
Purge Volume: 5.0 Operator: PC

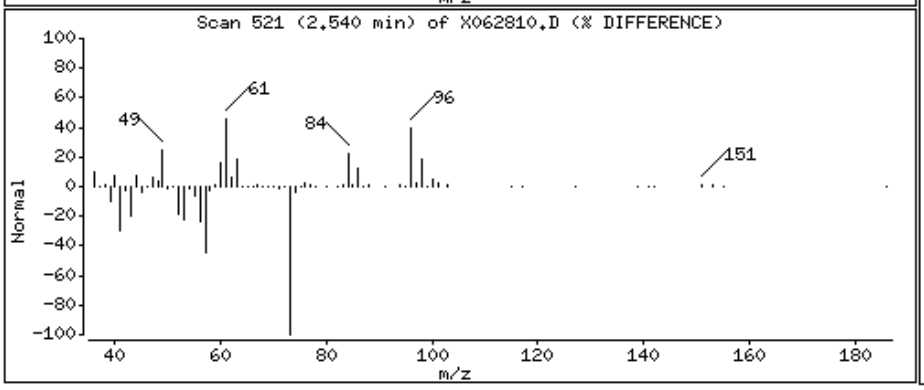
Column phase: DB624 Column diameter: 0.18

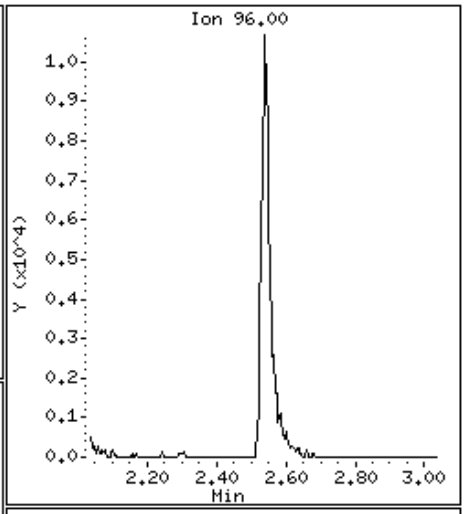
20 trans-1,2-Dichloroethene Concentration: 4.71 ug/l

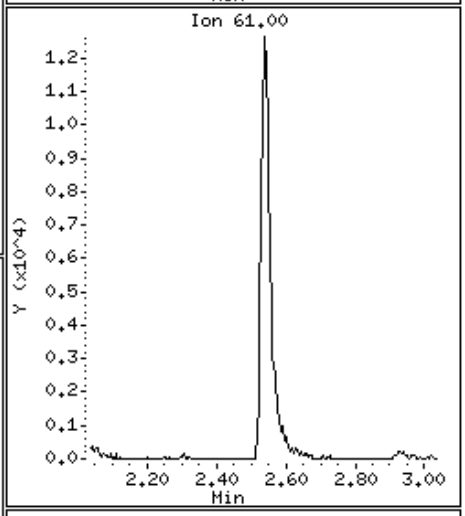


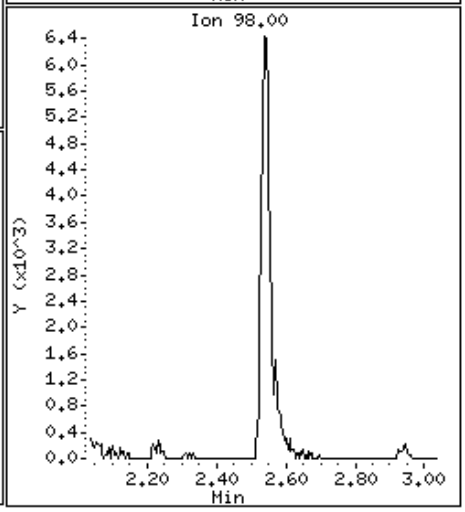












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062810.D Page 4

Date : 28-JUN-2023 14:44

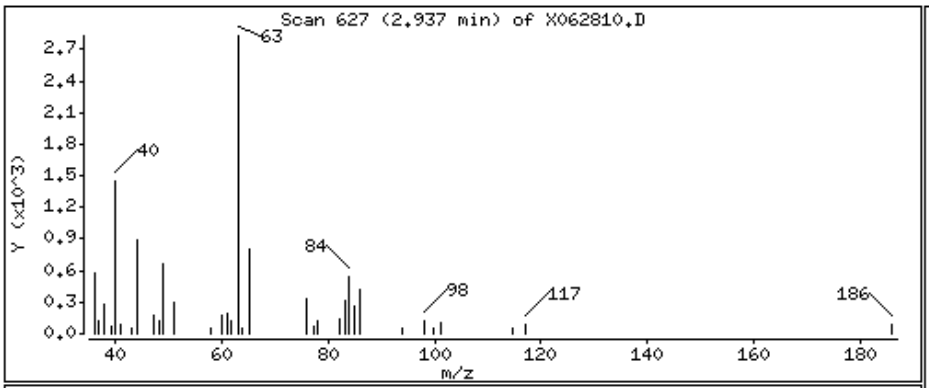
Client ID: HS230611712-05 Instrument: voa6.i

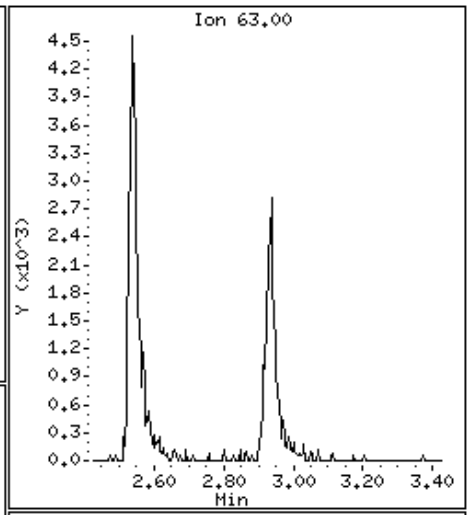
Sample Info: HS23061712-05;HS230611712-05;;;

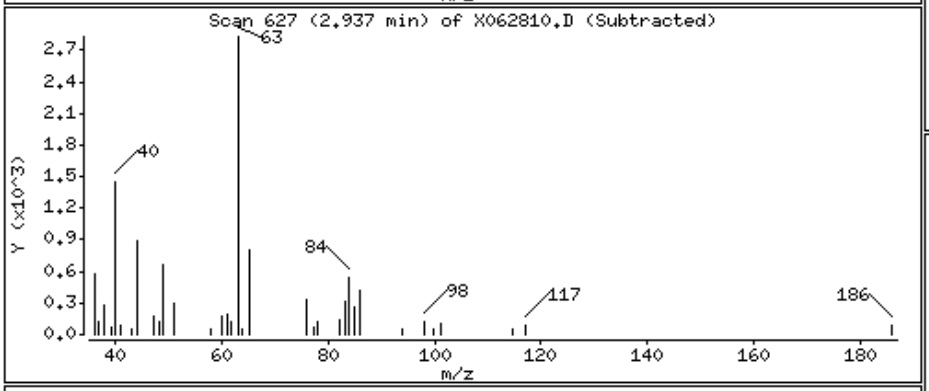
Purge Volume: 5.0 Operator: PC

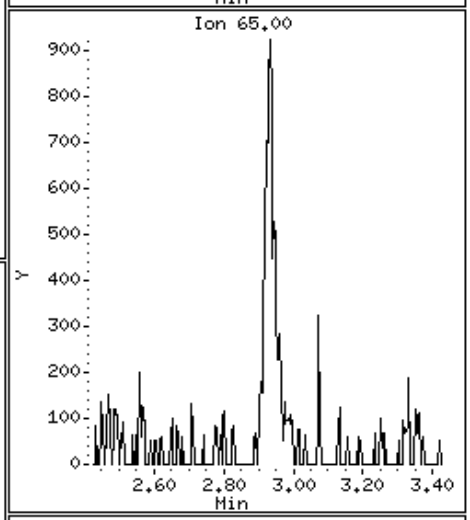
Column phase: DB624 Column diameter: 0.18

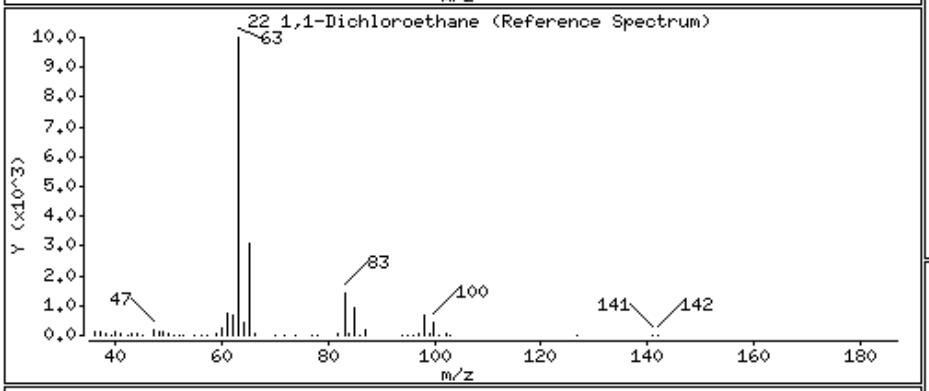
22 1,1-Dichloroethane Concentration: 0.72 ug/l

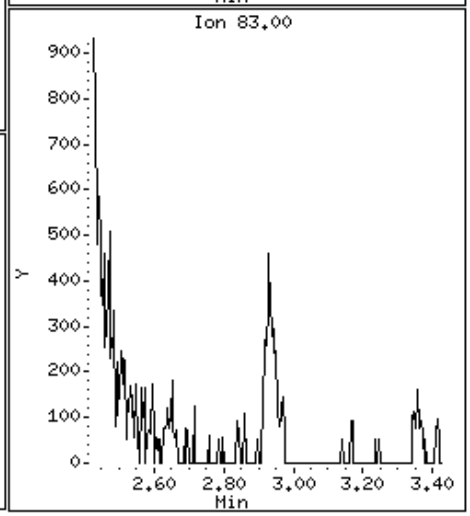


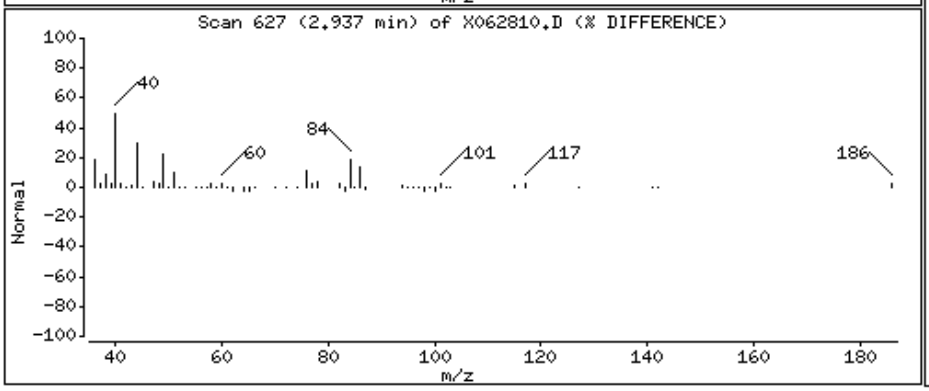












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062810.D Page 5

Date : 28-JUN-2023 14:44

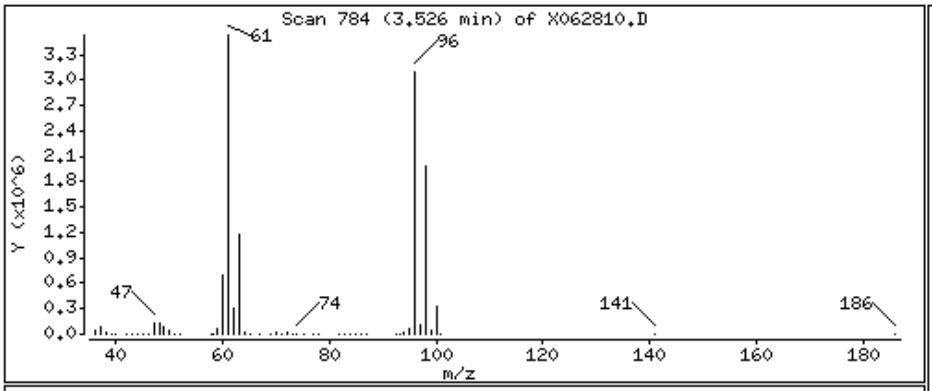
Client ID: HS230611712-05 Instrument: voa6.i

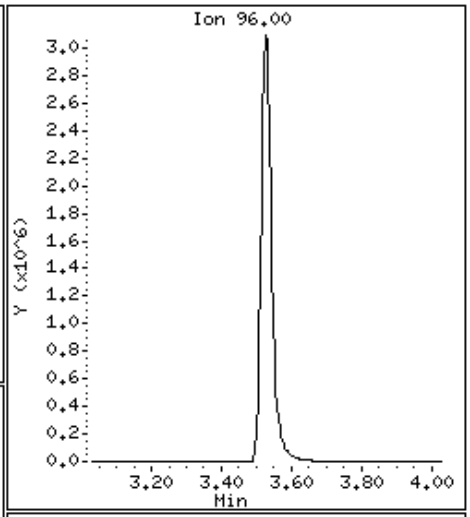
Sample Info: HS23061712-05;HS230611712-05;;;

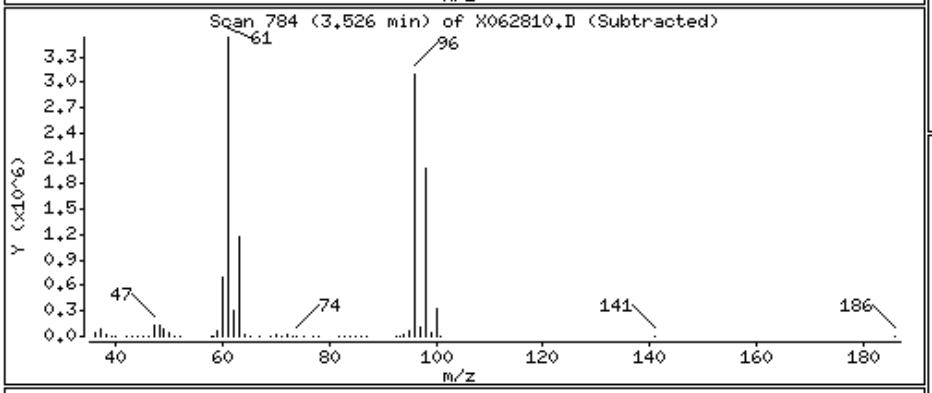
Purge Volume: 5.0 Operator: PC

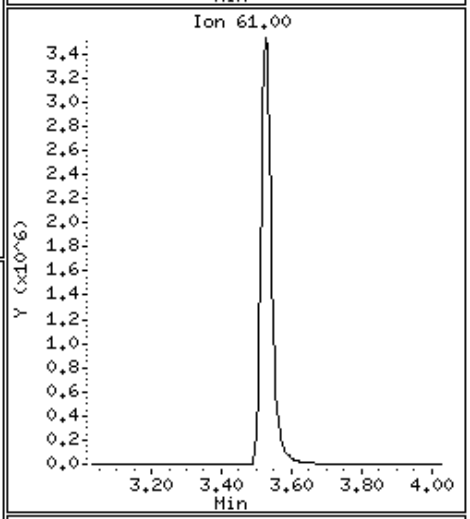
Column phase: DB624 Column diameter: 0.18

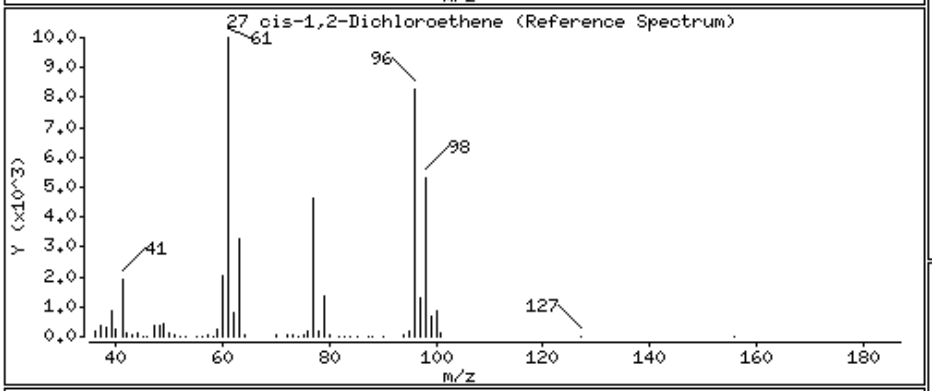
27 cis-1,2-Dichloroethene Concentration: 1381.18 ug/l

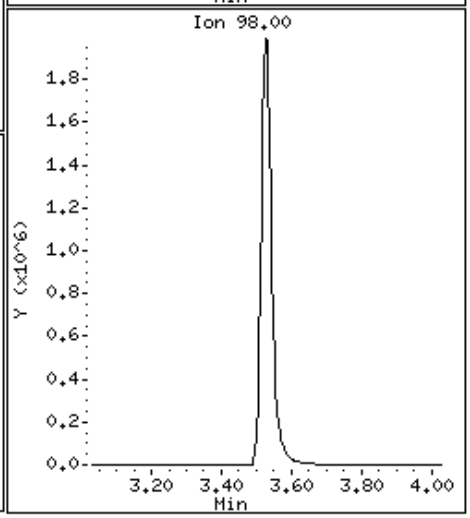


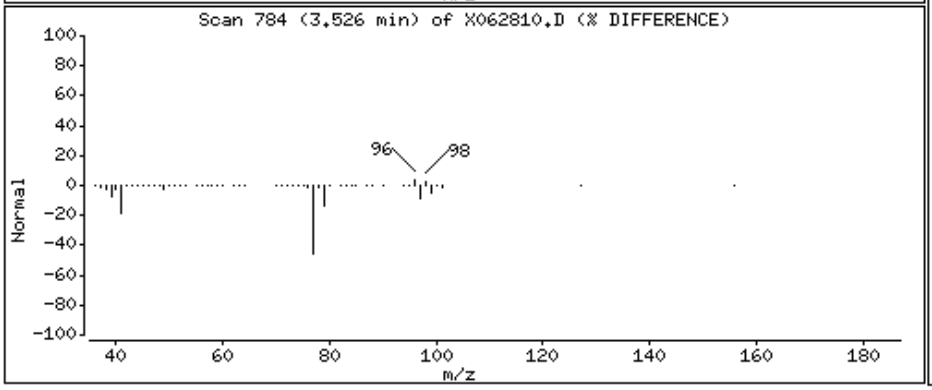












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062810.D

Date : 28-JUN-2023 14:44

Client ID: HS230611712-05

Instrument: voa6.i

Sample Info: HS23061712-05;HS230611712-05;;;

Purge Volume: 5.0

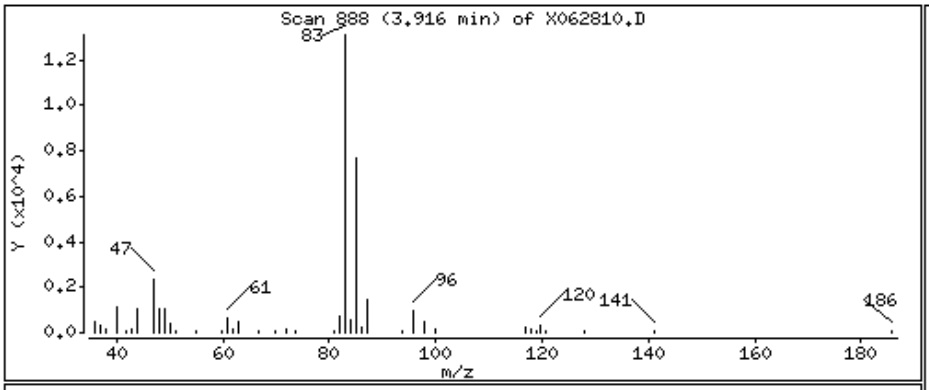
Operator: PC

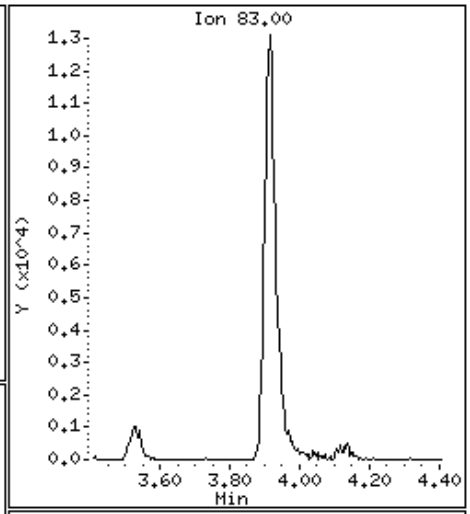
Column phase: DB624

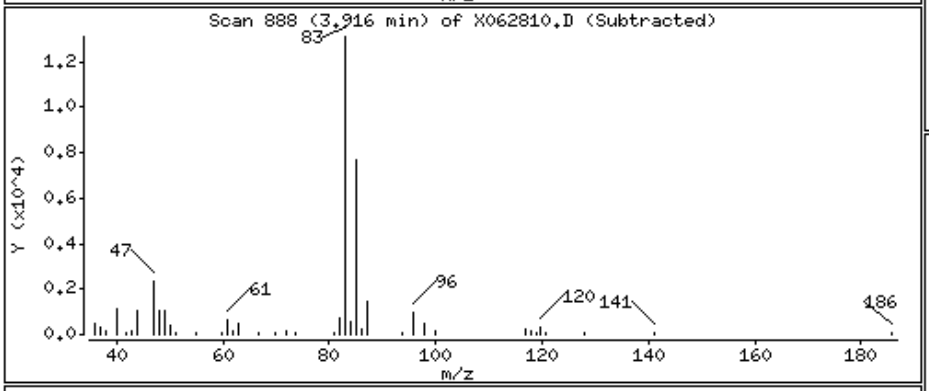
Column diameter: 0.18

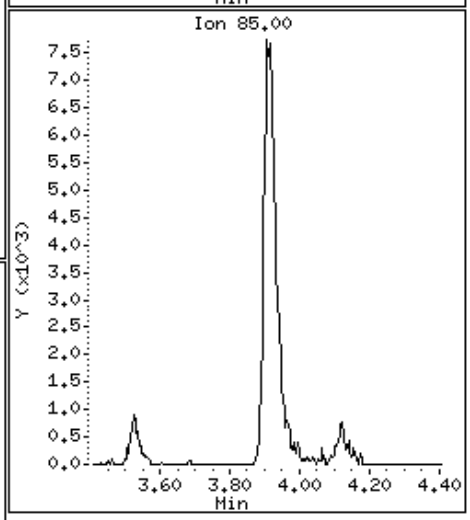
28 Chloroform

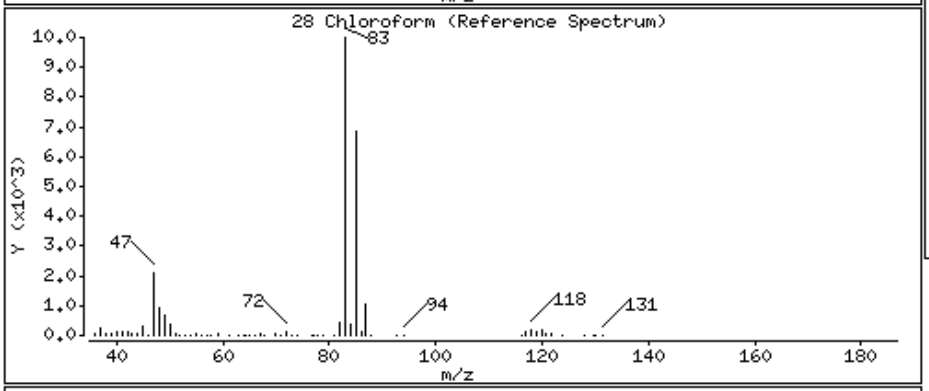
Concentration: 3.79 ug/l

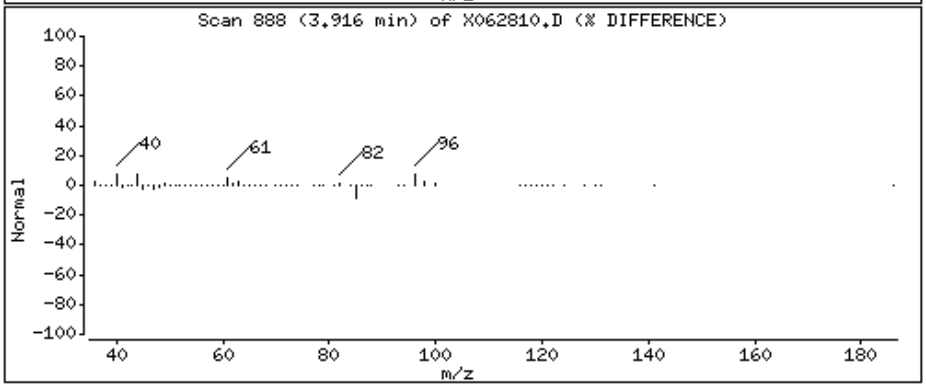












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062810.D Page 7

Date : 28-JUN-2023 14:44

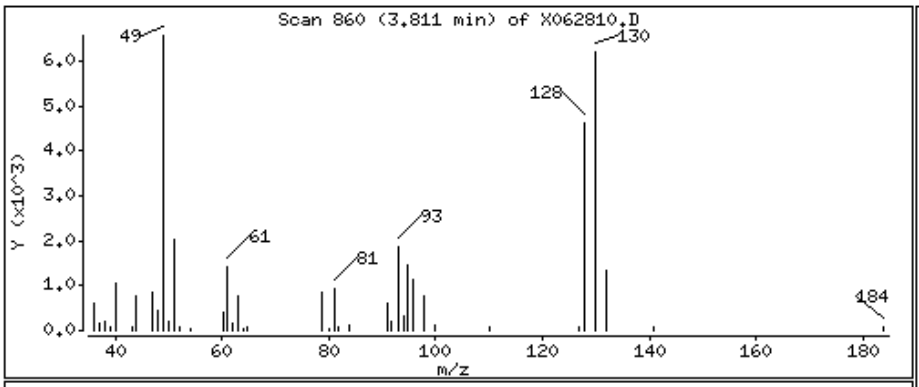
Client ID: HS230611712-05 Instrument: voa6.i

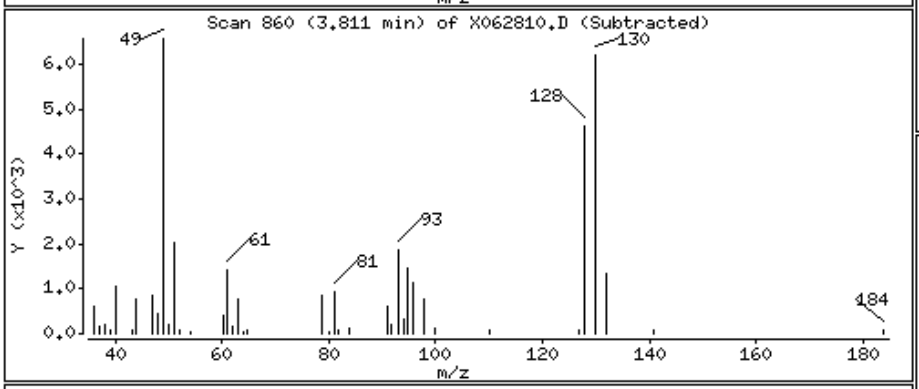
Sample Info: HS23061712-05;HS230611712-05;;;

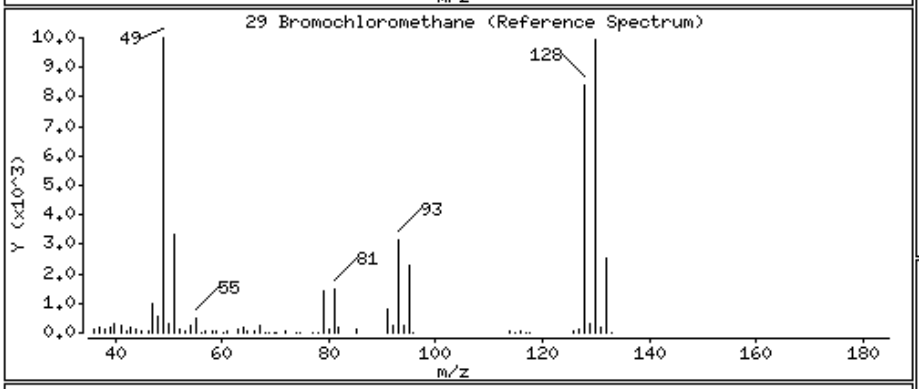
Purge Volume: 5.0 Operator: PC

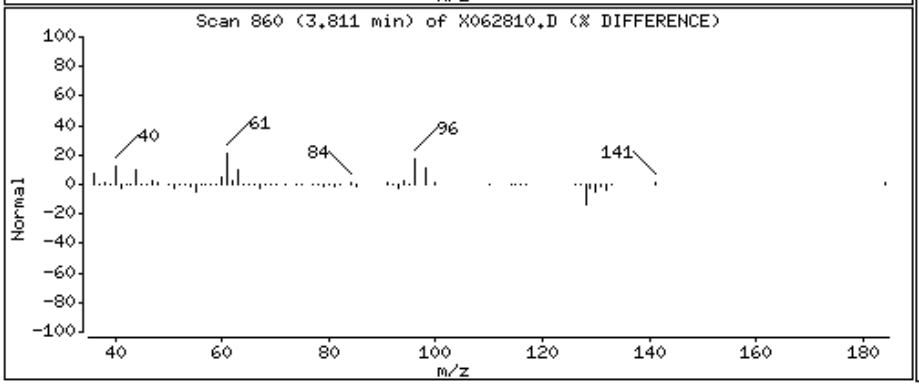
Column phase: DB624 Column diameter: 0.18

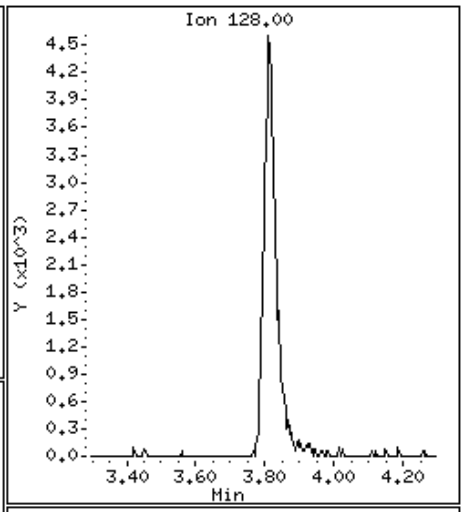
29 Bromochloromethane Concentration: 4.42 ug/l

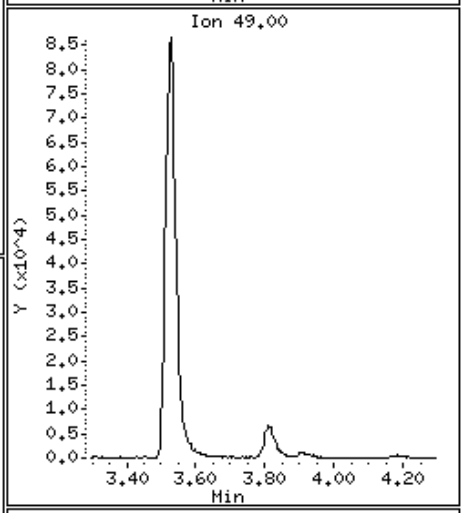


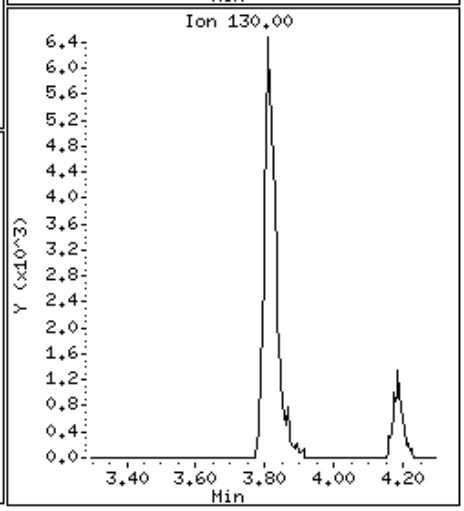












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062810.D

Date : 28-JUN-2023 14:44

Client ID: HS230611712-05

Instrument: voa6.i

Sample Info: HS23061712-05;HS230611712-05;;;

Purge Volume: 5.0

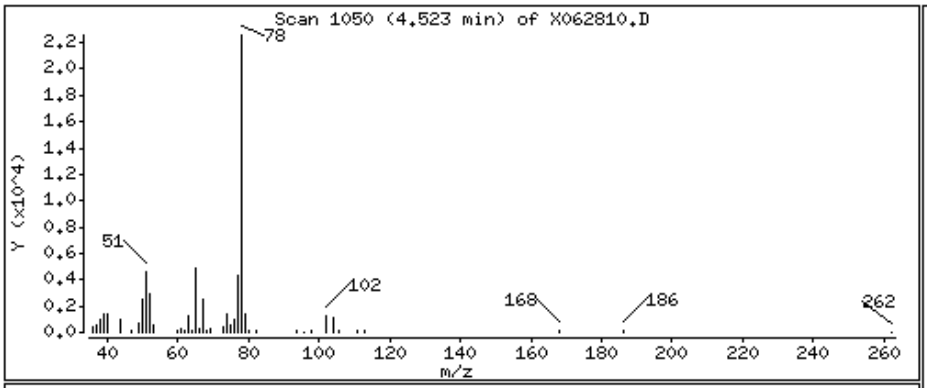
Operator: PC

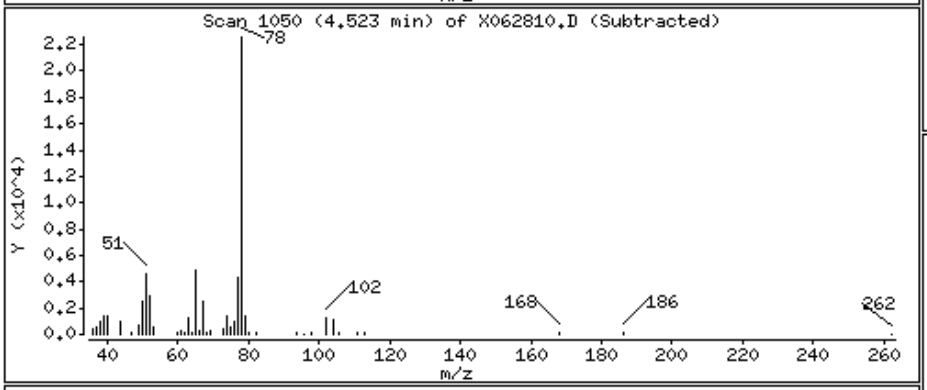
Column phase: DB624

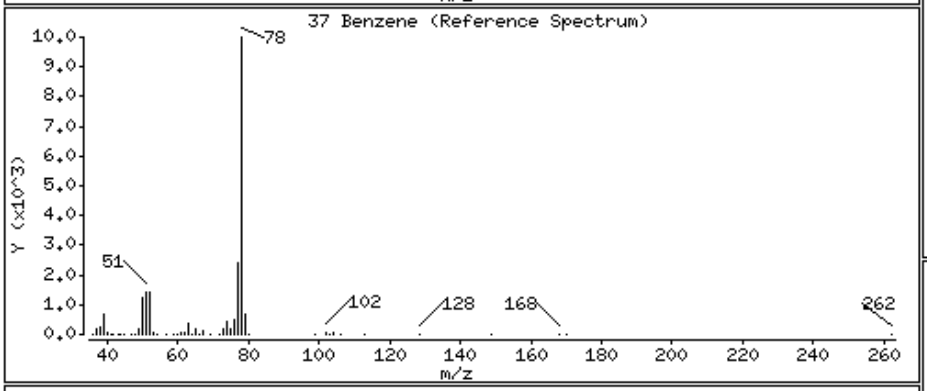
Column diameter: 0.18

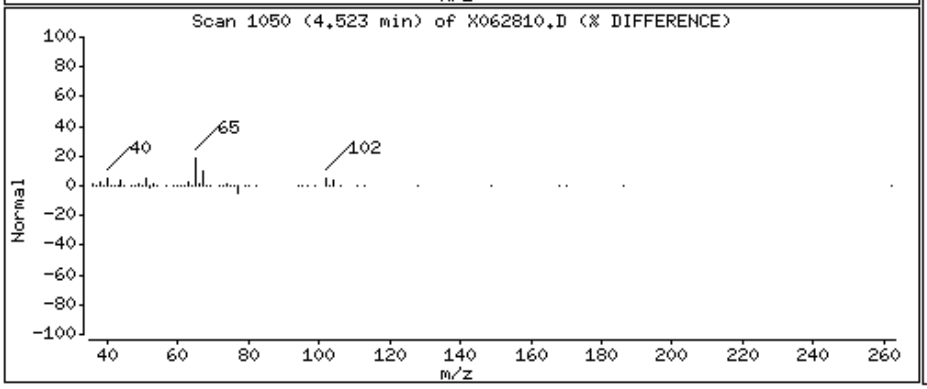
37 Benzene

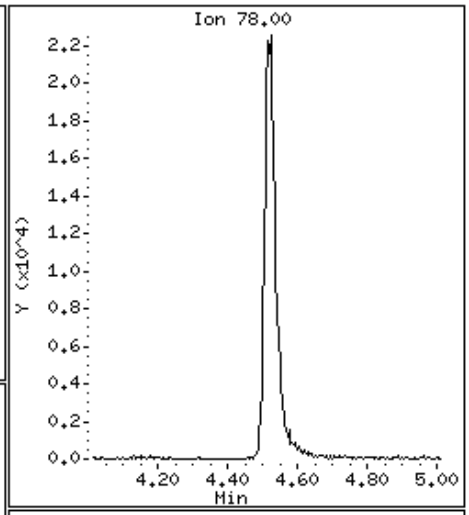
Concentration: 3.25 ug/l

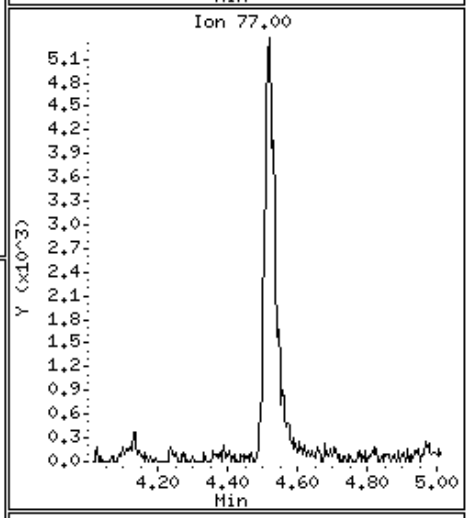


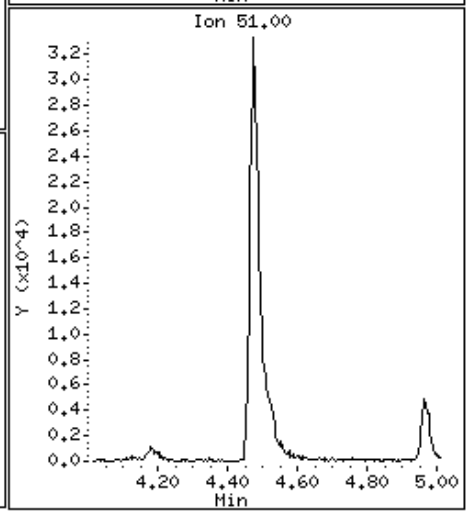












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062810.D

Date : 28-JUN-2023 14:44

Client ID: HS230611712-05

Instrument: voa6.i

Sample Info: HS23061712-05;HS230611712-05;;;

Purge Volume: 5.0

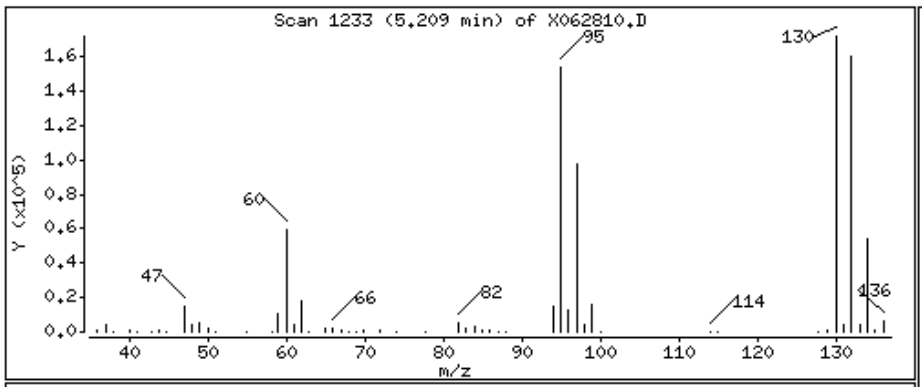
Operator: PC

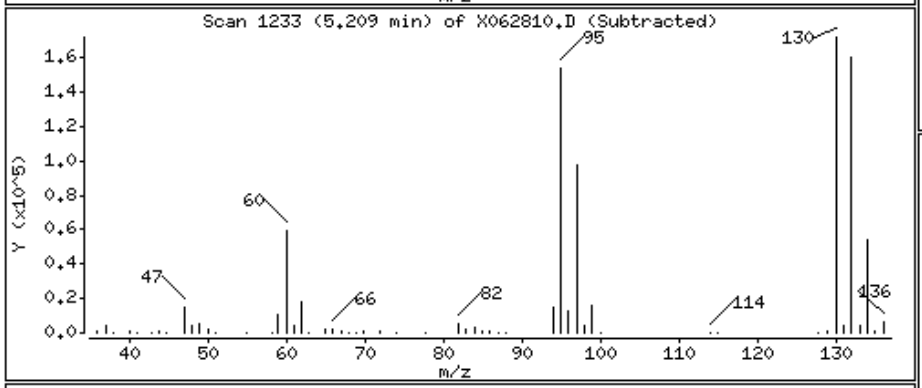
Column phase: DB624

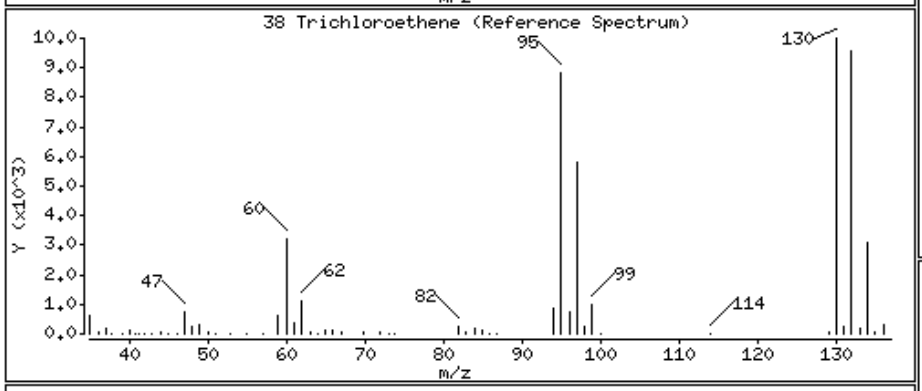
Column diameter: 0.18

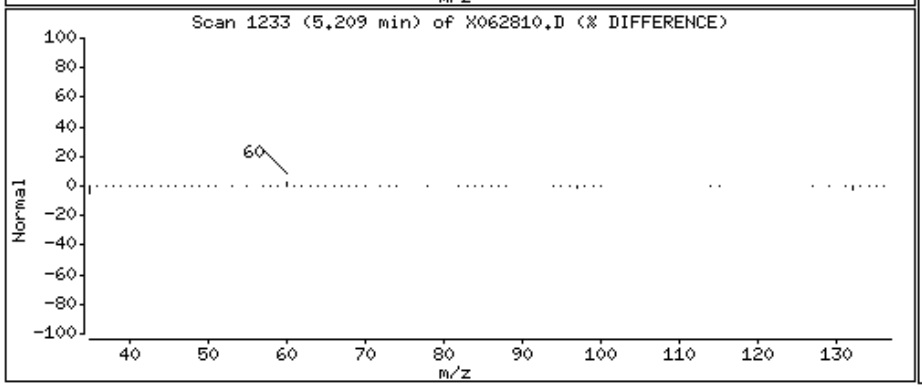
38 Trichloroethene

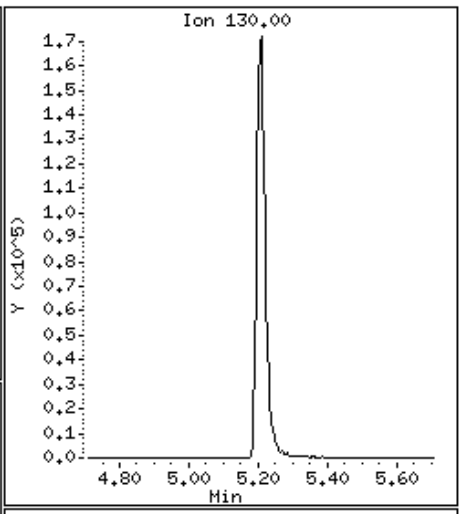
Concentration: 69.09 ug/l

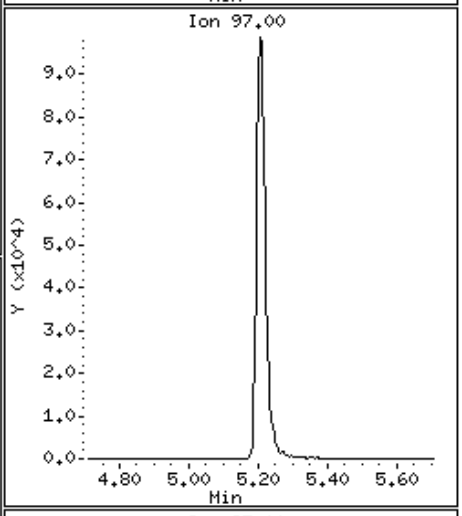


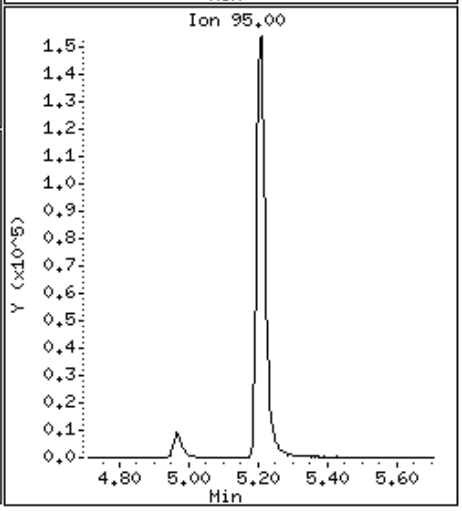












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062810.D

Date : 28-JUN-2023 14:44

Client ID: HS230611712-05

Instrument: voa6.i

Sample Info: HS23061712-05;HS230611712-05;;;

Purge Volume: 5.0

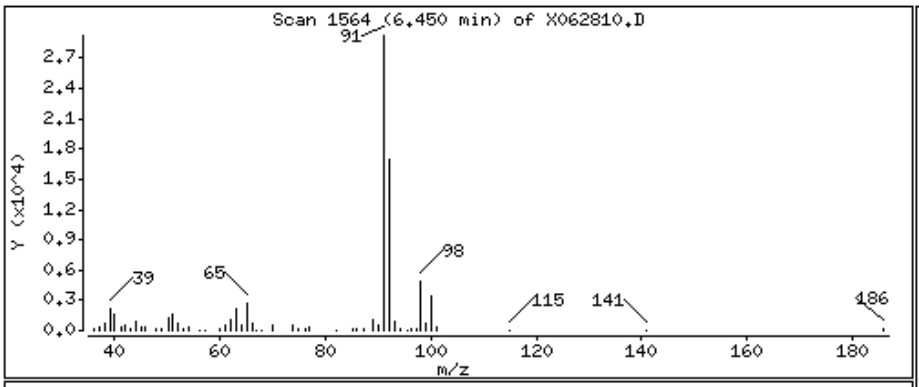
Operator: PC

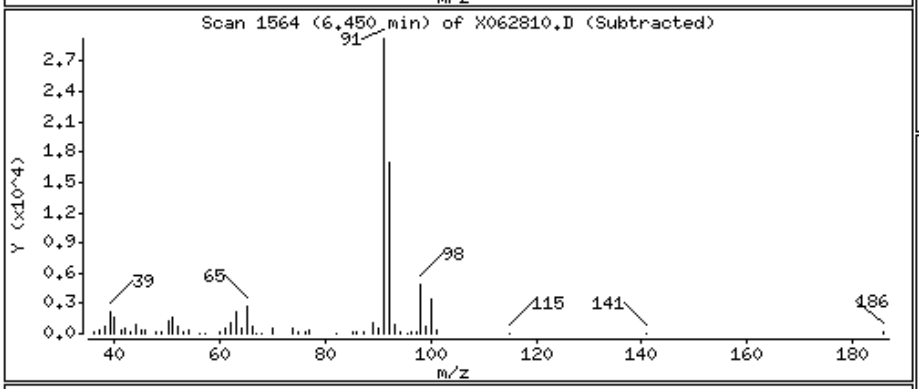
Column phase: DB624

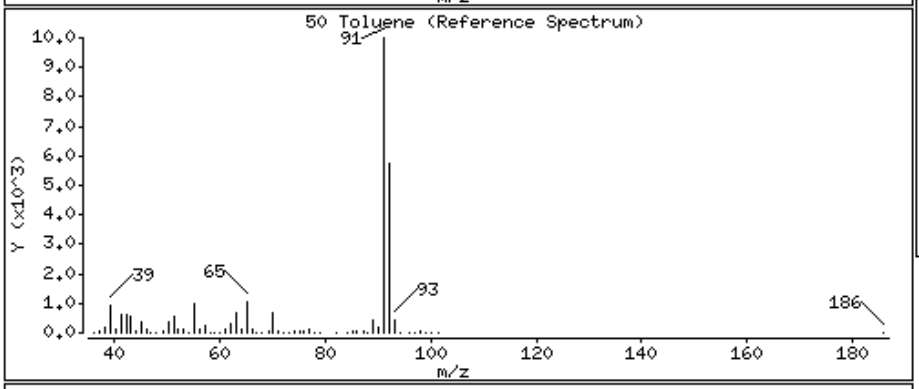
Column diameter: 0.18

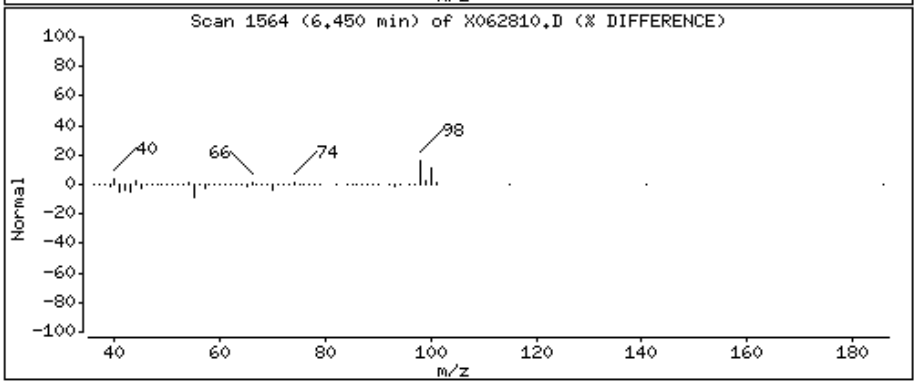
50 Toluene

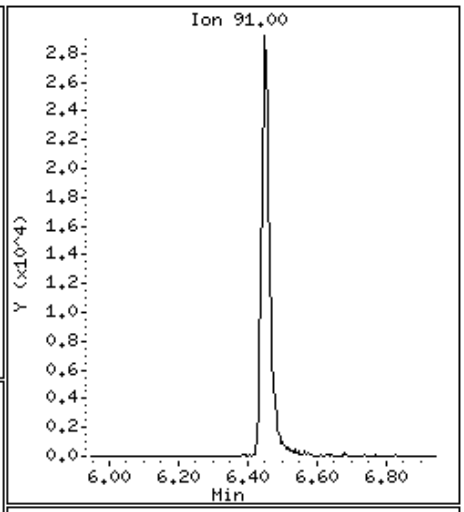
Concentration: 2.98 ug/l

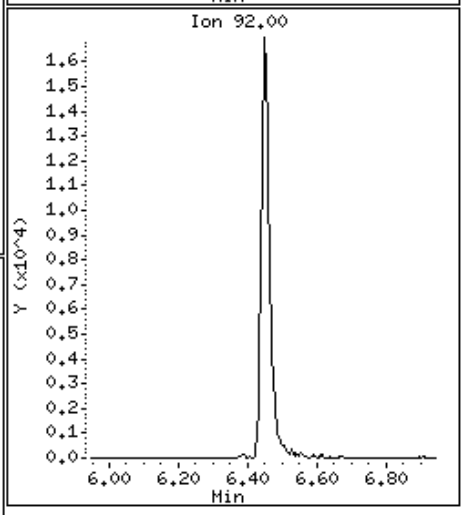












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062810.D Page 11

Date : 28-JUN-2023 14:44

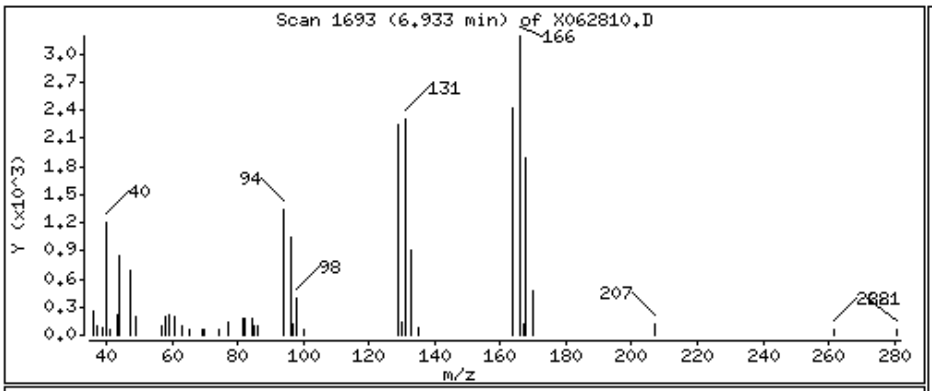
Client ID: HS230611712-05 Instrument: voa6.i

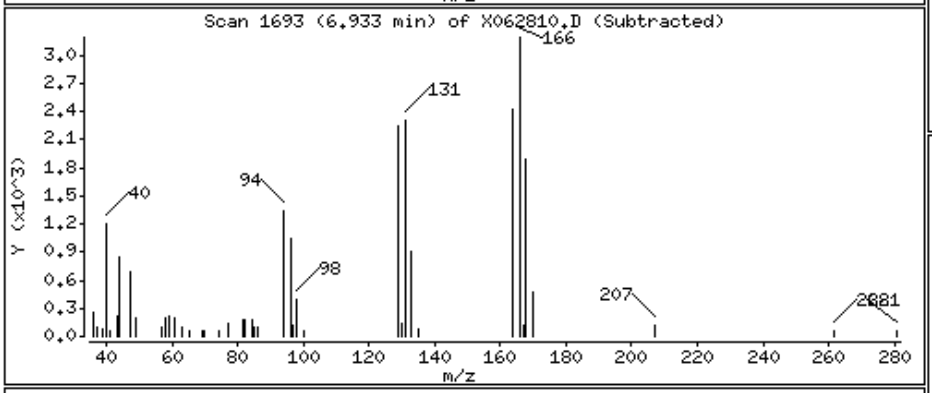
Sample Info: HS23061712-05;HS230611712-05;;;

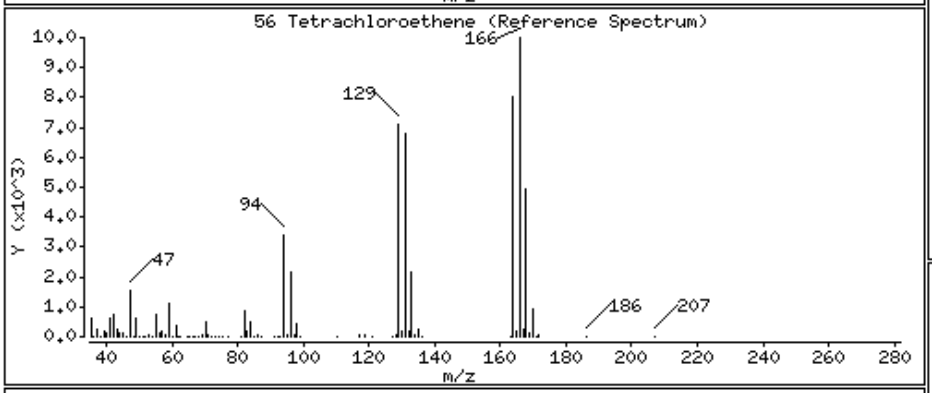
Purge Volume: 5.0 Operator: PC

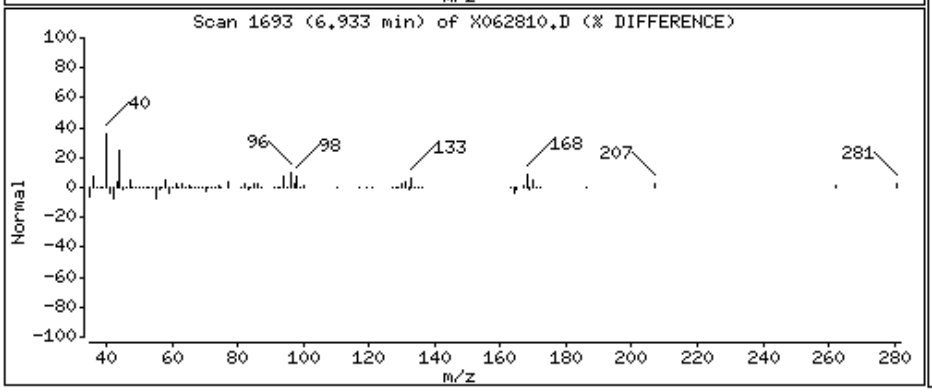
Column phase: DB624 Column diameter: 0.18

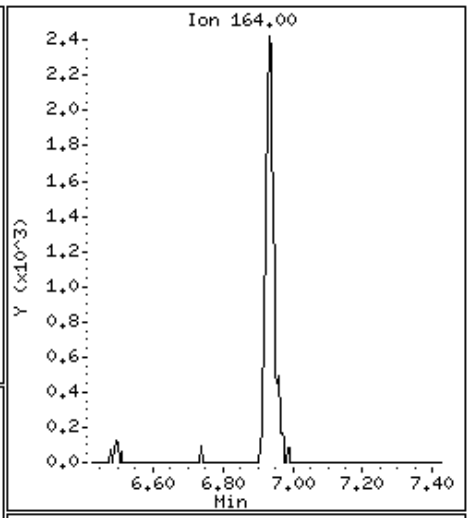
56 Tetrachloroethene Concentration: 1.20 ug/l

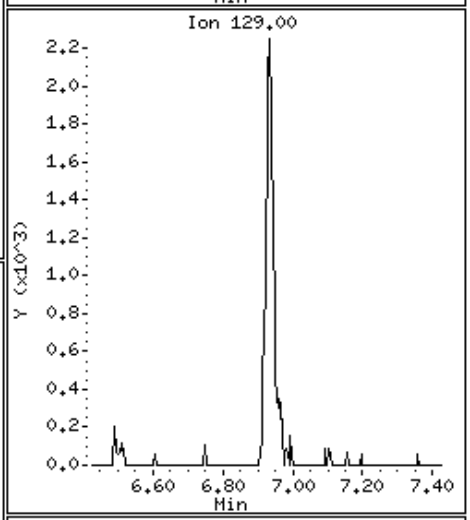


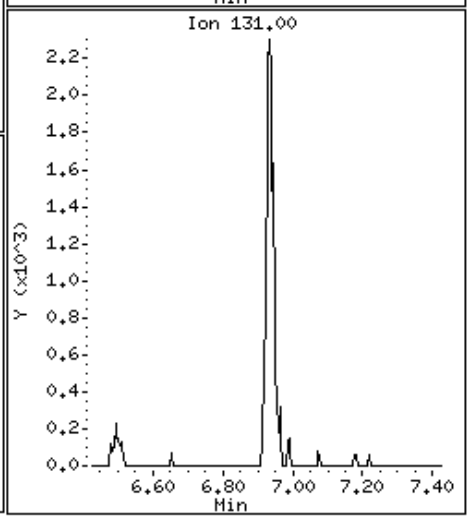












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Date : 28-JUN-2023 14:44

Client ID: HS230611712-05

Instrument: voa6.i

Sample Info: HS23061712-05;HS230611712-05;;;

Purge Volume: 5.0

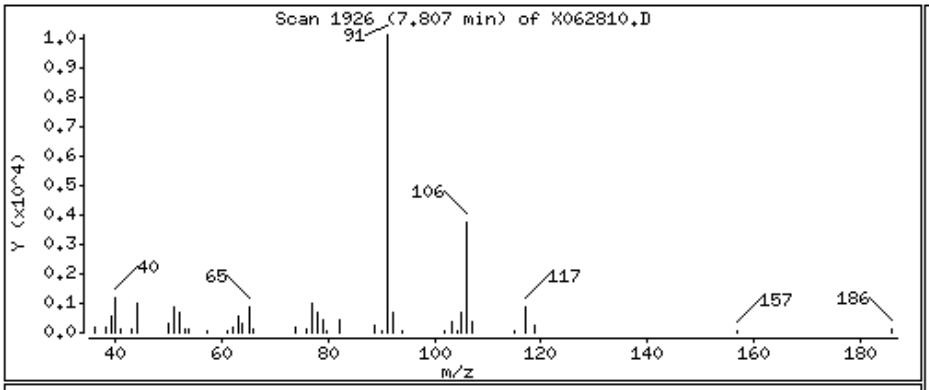
Operator: PC

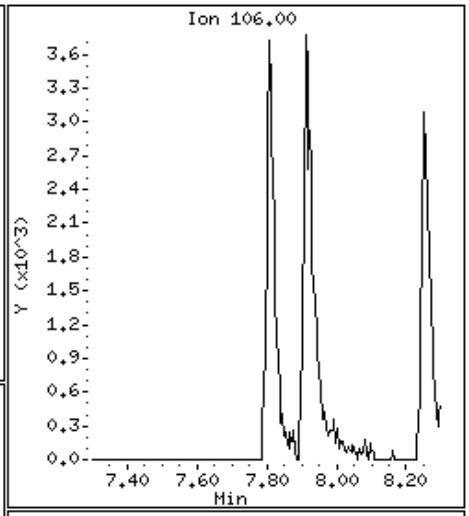
Column phase: DB624

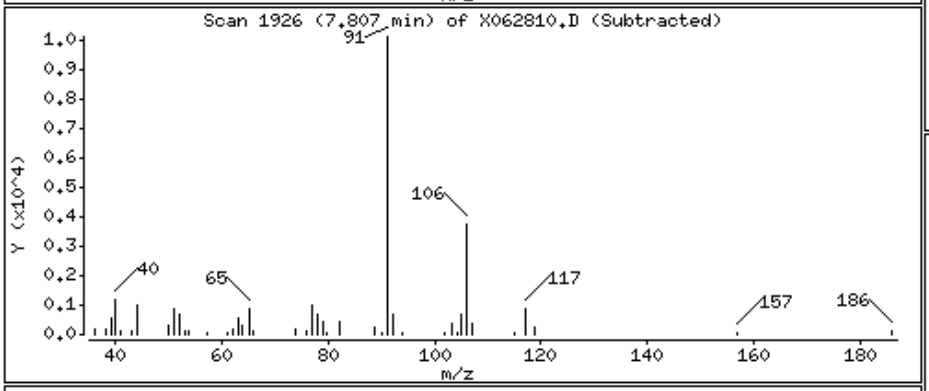
Column diameter: 0.18

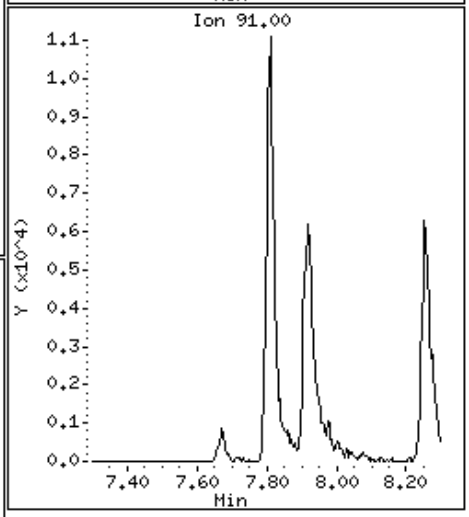
61 Ethylbenzene

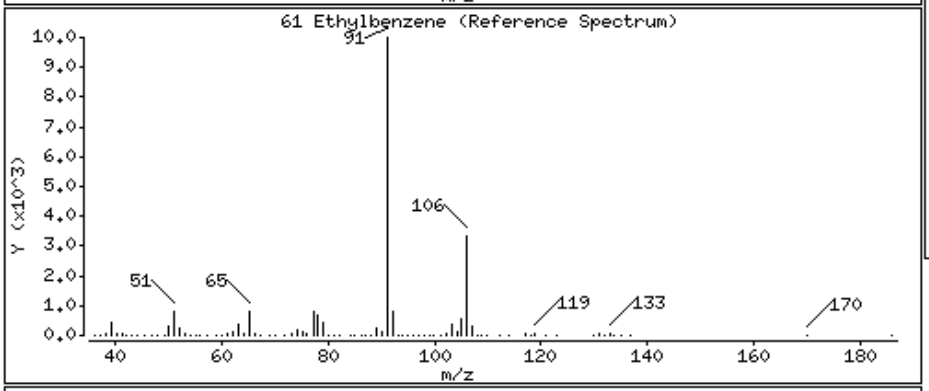
Concentration: 1.05 ug/l

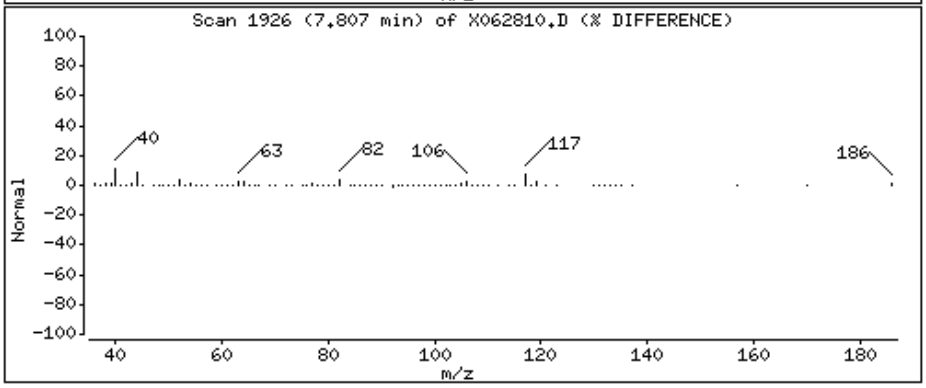












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Date : 28-JUN-2023 14:44

Client ID: HS230611712-05

Instrument: voa6.i

Sample Info: HS23061712-05;HS230611712-05;;;

Purge Volume: 5.0

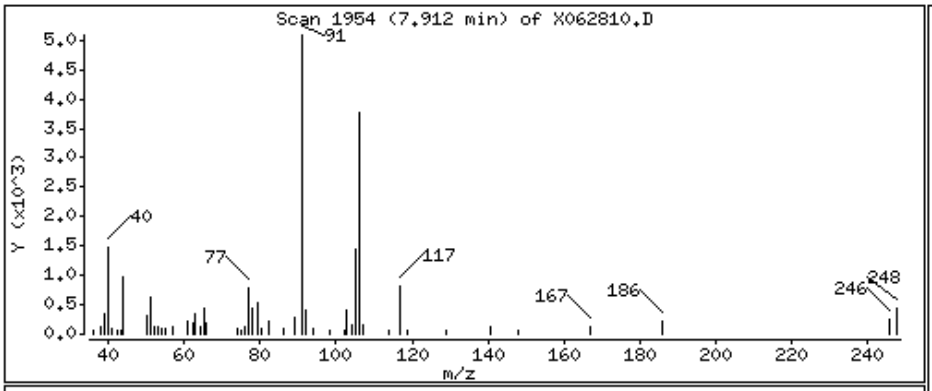
Operator: PC

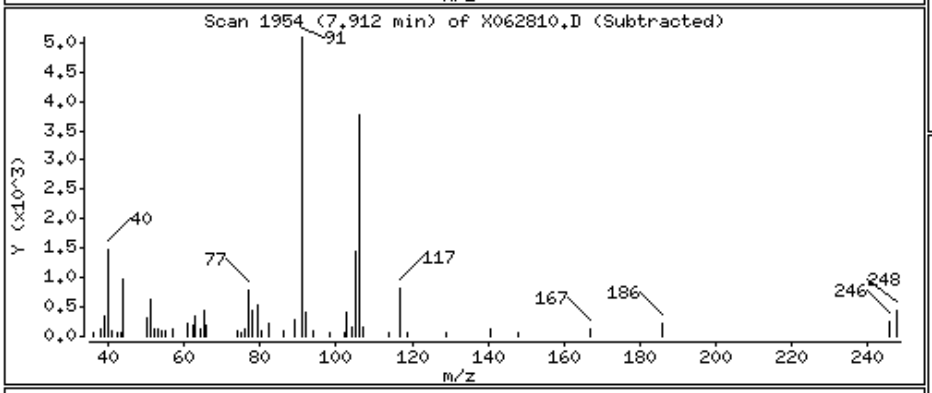
Column phase: DB624

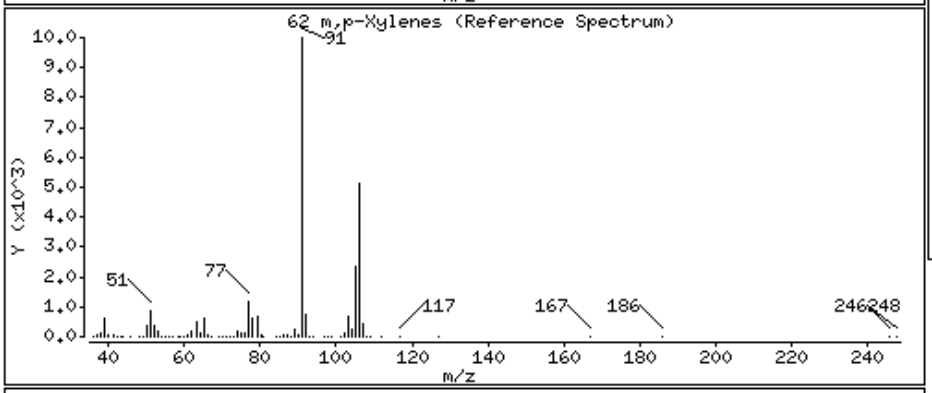
Column diameter: 0.18

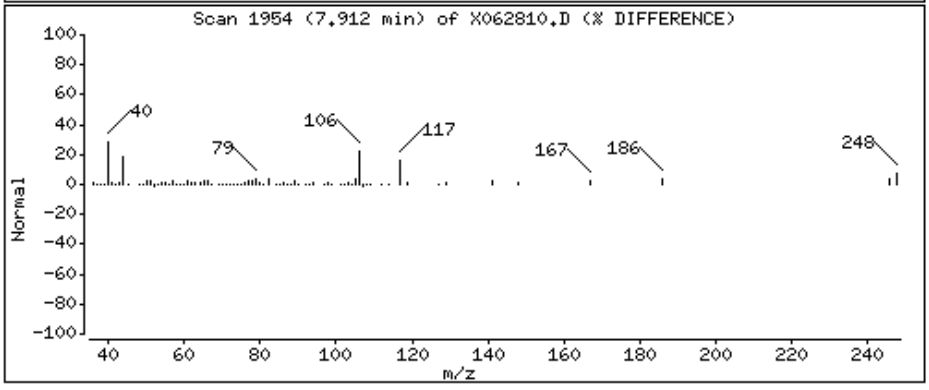
62 m,p-Xylenes

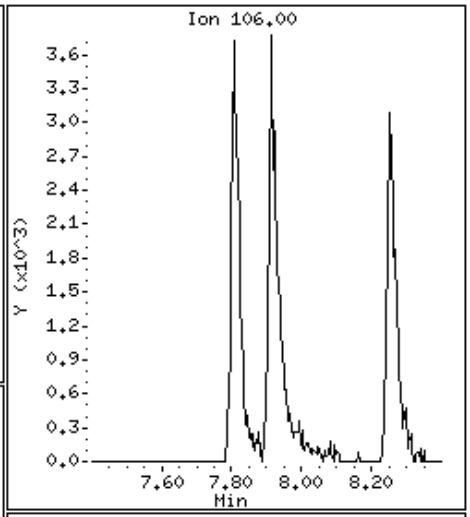
Concentration: 0.99 ug/l

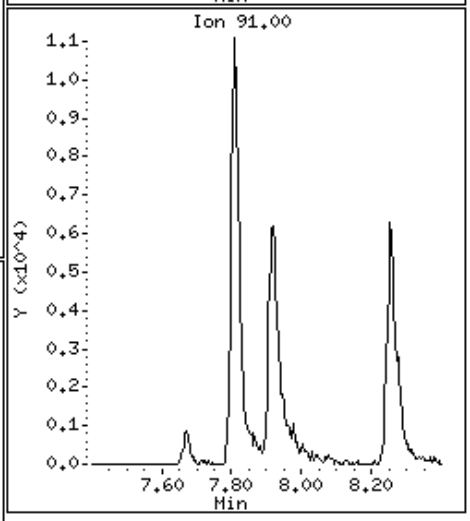












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Date : 28-JUN-2023 14:44

Client ID: HS230611712-05

Instrument: voa6.i

Sample Info: HS23061712-05;HS230611712-05;;;

Purge Volume: 5.0

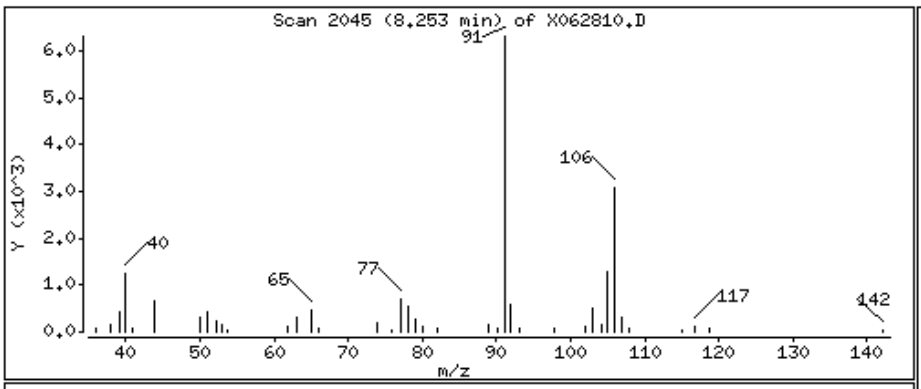
Operator: PC

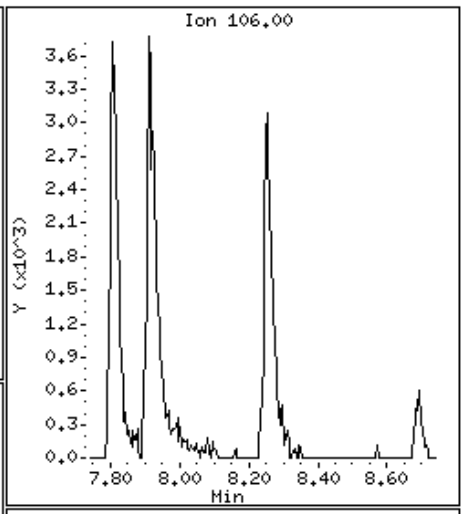
Column phase: DB624

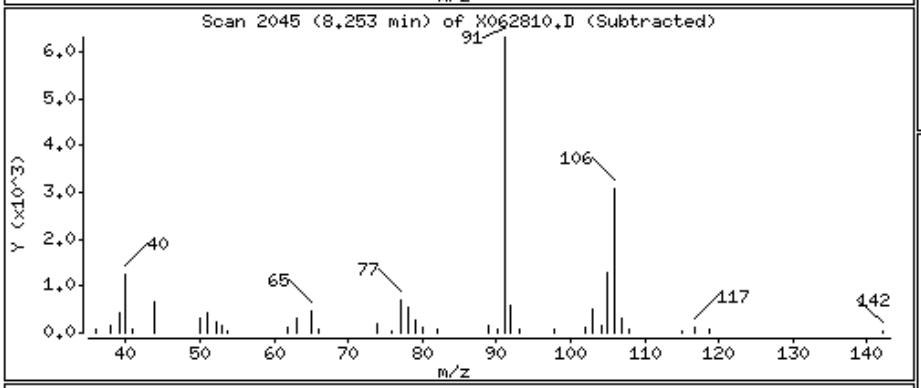
Column diameter: 0.18

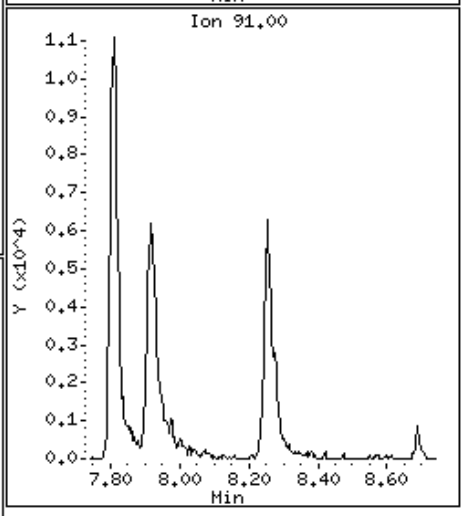
63 o-Xylene

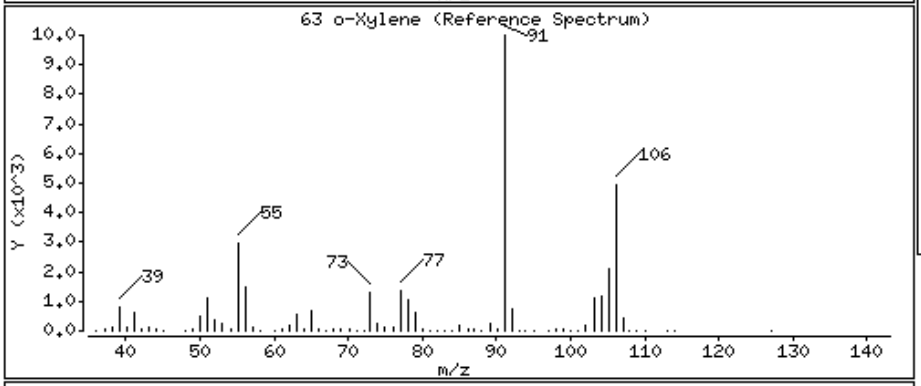
Concentration: 0.75 ug/l

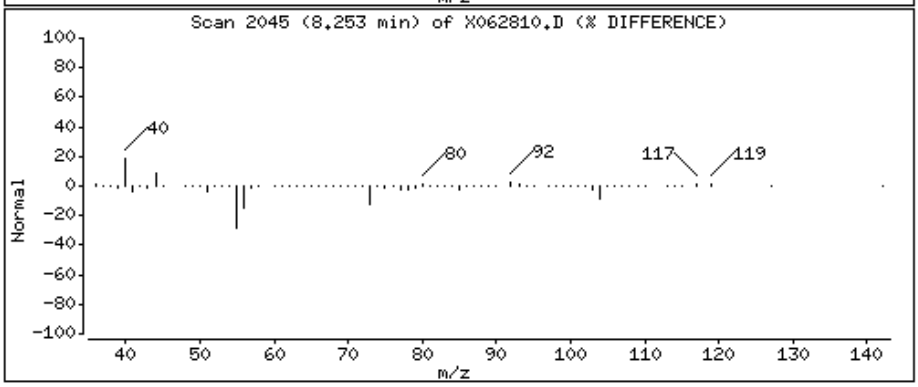












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Date : 28-JUN-2023 14:44

Client ID: HS230611712-05

Instrument: voa6.i

Sample Info: HS23061712-05;HS230611712-05;;;

Purge Volume: 5.0

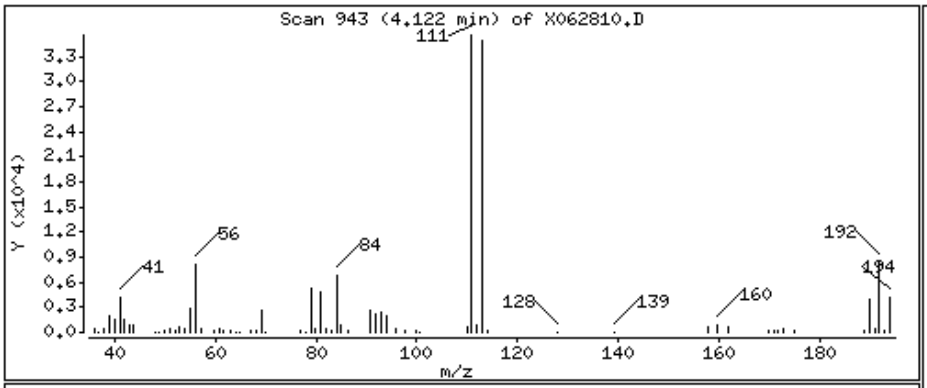
Operator: PC

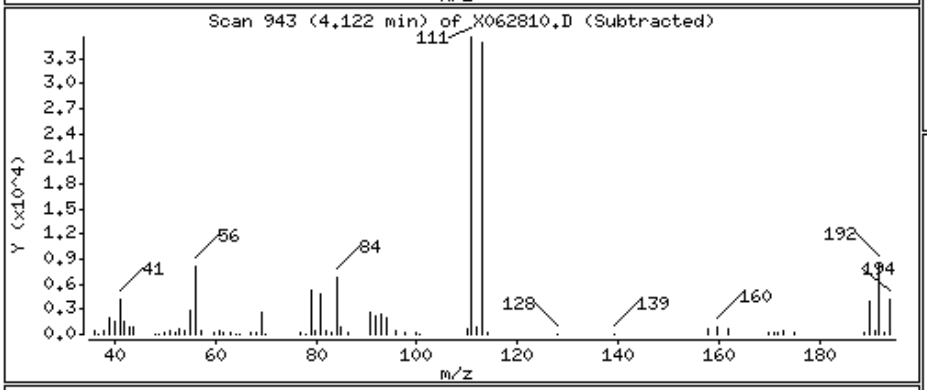
Column phase: DB624

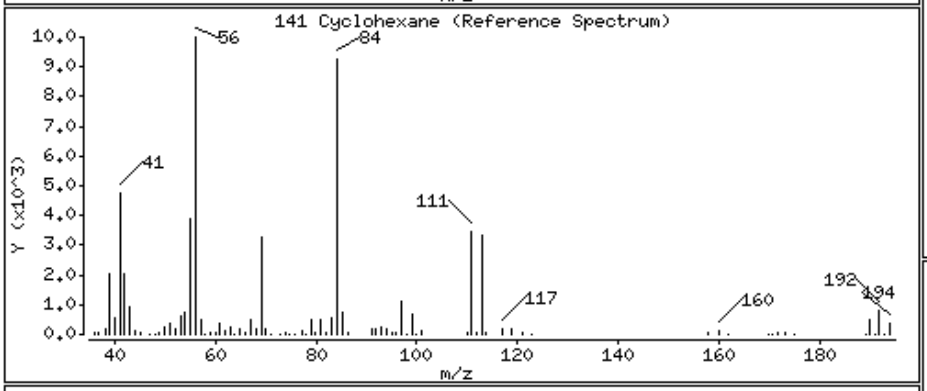
Column diameter: 0.18

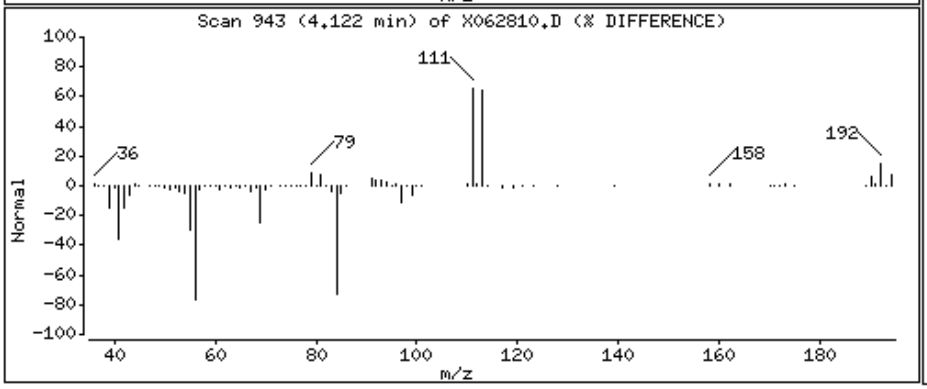
141 Cyclohexane

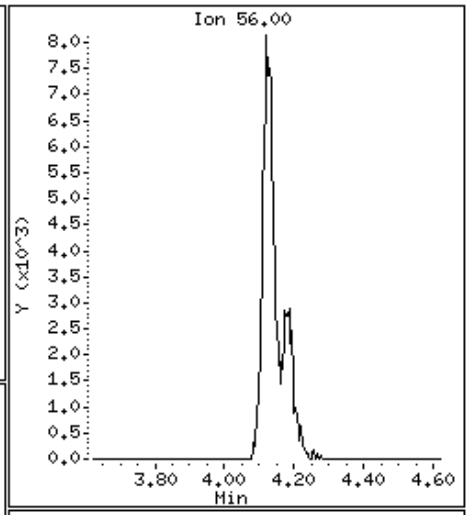
Concentration: 3.32 ug/l

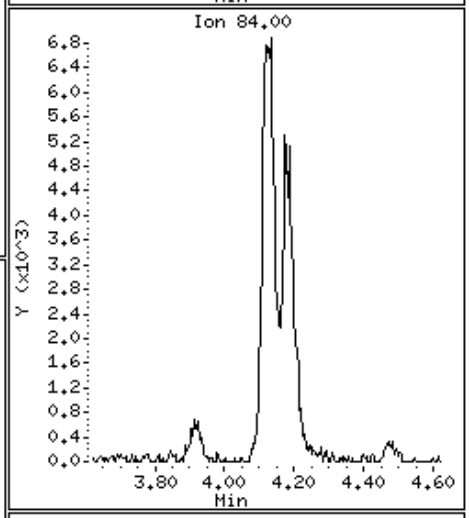


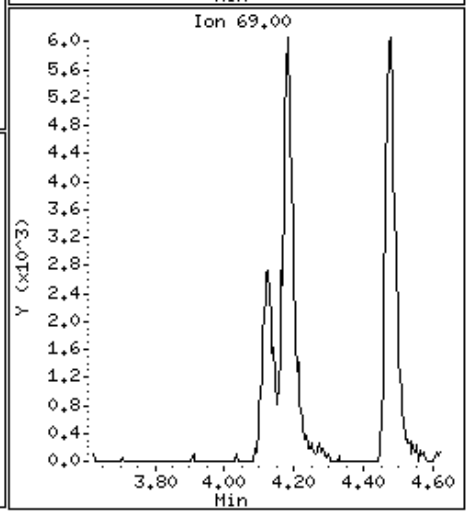












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Inj Date : 28-JUN-2023 14:44
InstruID : voa6.i
LabSampID : HS23061712-05

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062811.D Page 1
Report Date: 06-Jul-2023 12:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062811.D
Lab Smp Id: HS23061821-02MS Client Smp ID: HS230611821-02MS
Inj Date : 28-JUN-2023 15:06
Operator : PC Inst ID: voa6.i
Smp Info : HS23061821-02MS;HS230611821-02MS;3;;MS
Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 06-Jul-2023 12:06 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 10 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.181	(1.000)	461005	50.0000	
135 1,4-Dioxane	88	5.598	5.595	(1.339)	19825	354.852	354.85(a)
140 1,3-Butadiene	54	1.171	1.171	(0.280)	67222	17.5958	17.59
25 Methacrylonitrile	41	3.829	3.825	(0.916)	62797	16.5090	16.50
12 Isobutyl Alcohol	43	4.676	4.676	(1.118)	186953	311.017	311.01
13 Acetonitrile	39	2.202	2.202	(0.527)	78040	174.530	174.52
14 Allyl Chloride	41	2.206	2.202	(0.528)	172017	17.0147	17.01
4 Propionitrile	54	3.657	3.653	(0.875)	97692	175.222	175.22(a)
72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	23515	16.3731	16.37
194 Acetaldehyde	44	1.216	1.216	(0.291)	22445	90.6622	90.66(M)
23 Chloroprene	53	1.775	1.775	(0.425)	26533	17.3163	17.31(M)
130 Ethyl Acetate	43	3.657	3.657	(0.875)	72976	15.5294	15.52
40 Methyl Methacrylate	41	5.610	5.606	(1.342)	59315	16.6203	16.62
49 Ethyl Methacrylate	69	6.708	6.708	(1.351)	81453	17.4250	17.42
131 Methyl Acrylate	55	3.698	3.690	(0.884)	61729	16.5327	16.53
136 n-Hexane	57	2.776	2.776	(0.664)	93535	22.7444	22.74
139 Diethyl ether	59	1.764	1.764	(0.422)	48215	16.6940	16.69
156 Diisopropyl ether	45	3.004	3.001	(0.719)	224596	16.5189	16.51
166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	357933	23.5266	23.52
2 Dichlorodifluoromethane	85	0.980	0.980	(0.234)	64393	16.4443	16.44

3 Chloromethane	50	1.085	1.085 (0.260)	99088	20.9426	20.94
5 Vinyl Chloride	62	1.149	1.149 (0.275)	85335	17.6256	17.62

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062811.D Page 2
Report Date: 06-Jul-2023 12:07

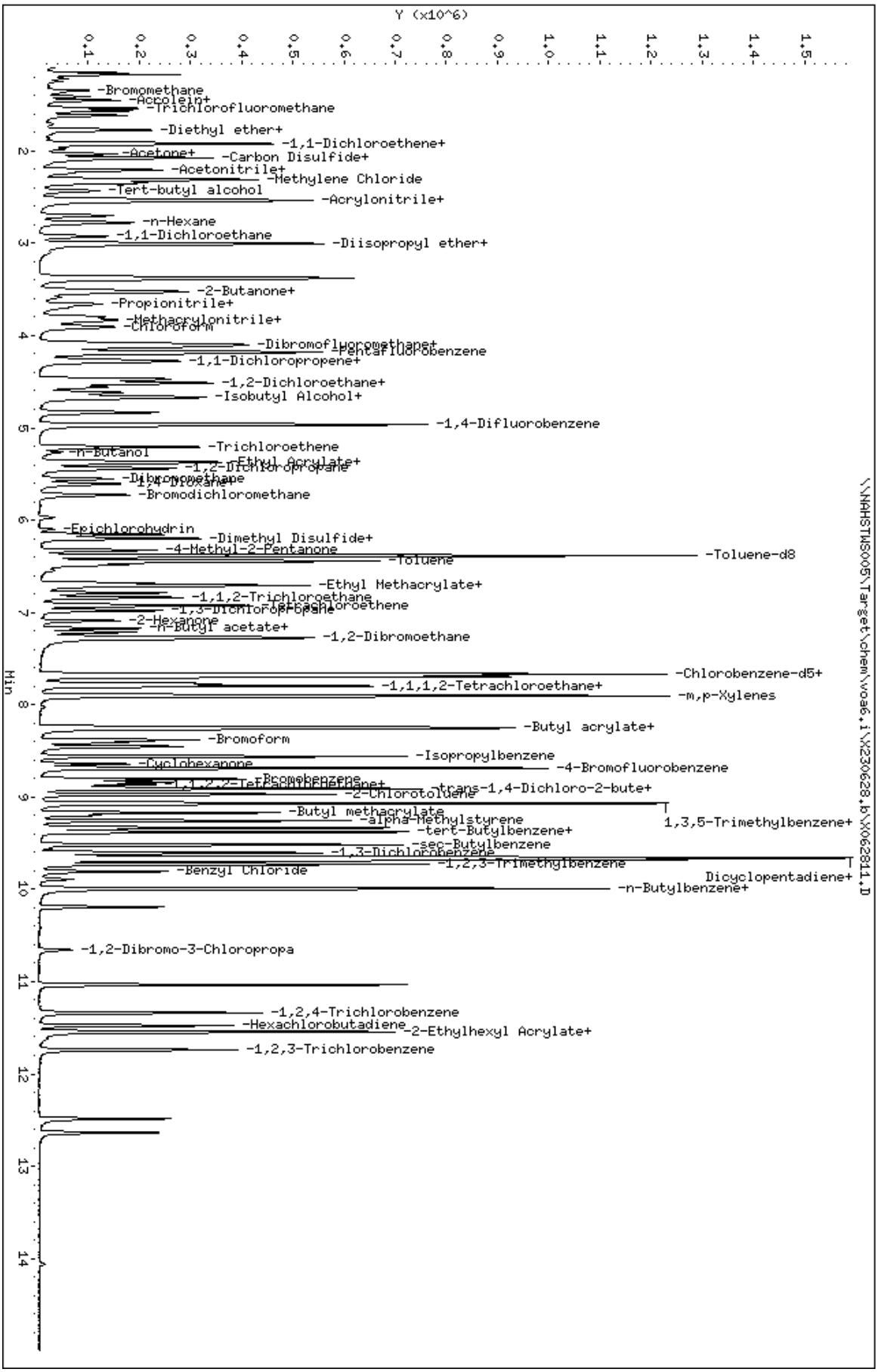
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	6 Bromomethane	94	1.347	1.344	(0.322)	38951	14.0156	14.01
	7 Chloroethane	64	1.407	1.407	(0.337)	55119	18.6247	18.62(M)
	8 Trichlorofluoromethane	101	1.565	1.565	(0.374)	106921	18.5840	18.58
	9 Acrolein	56	1.452	1.452	(0.347)	11186	39.1037	39.10
	10 Acetone	43	1.981	1.977	(0.474)	30949	25.5441	25.54
	11 1,1-Dichloroethene	96	1.921	1.917	(0.459)	66152	18.3286	18.32
	15 Iodomethane	142	2.033	2.034	(0.486)	151004	27.1811	27.18
	16 Acrylonitrile	53	2.543	2.536	(0.608)	50335	34.3978	34.39
	17 Methylene Chloride	84	2.311	2.307	(0.553)	97138	19.0538	19.05
	18 Methyl tert-butyl ether	73	2.536	2.540	(0.606)	209051	16.5953	16.59
	19 Carbon Disulfide	76	2.075	2.075	(0.496)	405469	31.5506	31.55
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	75432	17.4662	17.46
	21 Vinyl Acetate	43	3.004	3.001	(0.719)	356026	30.8865	30.88
	22 1,1-Dichloroethane	63	2.926	2.922	(0.700)	132846	17.0751	17.07
	24 2-Butanone	43	3.589	3.578	(0.858)	43728	28.8226	28.82
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	111130	18.0977	18.09
	27 cis-1,2-Dichloroethene	96	3.529	3.529	(0.844)	114869	23.0647	23.06
	28 Chloroform	83	3.908	3.908	(0.935)	134071	16.0107	16.01
	29 Bromochloromethane	128	3.799	3.795	(0.909)	45060	16.9789	16.97
$	30 Dibromofluoromethane	113	4.103	4.099	(0.981)	186047	45.1551	45.15
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.977)	117486	17.3589	17.35
	32 1,1-Dichloropropene	75	4.283	4.279	(0.863)	105986	19.3946	19.39
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	104155	19.0209	19.02
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	105108	19.9993	19.99
$	35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.070)	183485	41.1373	41.13
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	652167	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	314795	18.7652	18.76
	38 Trichloroethene	130	5.209	5.209	(1.049)	111569	24.1214	24.12
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	102413	17.2584	17.25
	42 1,2-Dichloropropane	63	5.437	5.434	(1.095)	78252	17.7714	17.77
	44 Dibromomethane	93	5.553	5.553	(1.119)	48705	17.6203	17.62
	45 4-Methyl-2-Pentanone	43	6.326	6.322	(0.825)	130272	34.1770	34.17
	46 cis-1,3-Dichloropropene	75	6.157	6.153	(1.240)	131016	17.9066	17.90
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	590067	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	763285	51.1647	51.16
	50 Toluene	91	6.446	6.446	(0.841)	357327	20.6276	20.62
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	108354	17.7001	17.70
	52 2-Hexanone	43	7.087	7.083	(0.924)	85452	33.5620	33.56
	53 1,1,2-Trichloroethane	83	6.835	6.836	(0.891)	62526	18.5273	18.52
	54 1,3-Dichloropropane	76	6.982	6.978	(0.911)	127923	18.7471	18.74
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	91400	19.1098	19.10
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	81879	22.9853	22.98
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	80032	18.5534	18.55
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	77975	19.6609	19.66
	59 Chlorobenzene	112	7.694	7.690	(1.003)	240473	20.2879	20.28
	60 1,1,1,2-Tetrachloroethane	131	7.769	7.773	(1.013)	86565	19.5857	19.58
	61 Ethylbenzene	106	7.799	7.795	(1.017)	127017	20.7990	20.79
	62 m,p-Xylenes	106	7.904	7.900	(1.031)	325113	43.1701	43.17
	63 o-Xylene	106	8.241	8.238	(1.075)	153377	20.4101	20.41
	64 Styrene	104	8.260	8.256	(1.077)	253953	20.5164	20.51
	66 Bromoform	173	8.410	8.410	(1.097)	62490	18.7412	18.74
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	398328	21.4449	21.44

	68	1,1,2,2-Tetrachloroethane	83	8.837	8.837 (0.915)	103061	18.3121	18.31
$	69	4-Bromofluorobenzene	95	8.687	8.687 (1.133)	271576	47.1103	47.11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	320069	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.860	(0.917)	76192	18.8796	18.87(M)
	73 n-Propylbenzene	91	8.908	8.909	(0.922)	465312	22.0923	22.09
	74 Bromobenzene	156	8.803	8.804	(0.911)	110583	21.1979	21.19
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	337356	21.8286	21.82
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	279444	20.8928	20.89
	77 4-Chlorotoluene	91	9.070	9.066	(0.939)	318802	21.3688	21.36
	78 tert-Butylbenzene	119	9.332	9.332	(0.966)	293952	22.8301	22.83
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	333045	21.3591	21.35
	81 sec-Butylbenzene	105	9.519	9.520	(0.985)	410815	22.6229	22.62
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	360489	22.6742	22.67
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	198253	21.3435	21.34
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	207443	20.8648	20.86
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	307360	22.6985	22.69
	88 1,2-Dichlorobenzene	146	9.992	9.988	(1.034)	192847	20.9243	20.92
	89 1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	17359	19.0624	19.06
	90 1,2,4-Trichlorobenzene	180	11.338	11.334	(1.173)	132468	20.6618	20.66
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	67059	23.3019	23.30
	92 Naphthalene	128	11.544	11.540	(1.195)	282186	19.5517	19.55
	93 1,2,3-Trichlorobenzene	180	11.742	11.739	(1.215)	122790	20.8140	20.81
M	94 1,2-Dichloroethylene (total)	96				190301	40.5308	40.53
M	95 Xylenes (total)	106				478490	63.5802	63.58
	141 Cyclohexane	56	4.125	4.121	(0.987)	125630	21.3782	21.37
	138 Freon TF	101	1.921	1.921	(0.459)	106778	33.5209	33.52
	147 Methylcyclohexane	55	5.381	5.381	(1.084)	198226	21.7478	21.74
	146 Methyl Acetate	43	2.240	2.236	(0.536)	40765	14.9397	14.93
	148 Tert-Butyl alcohol	59	2.431	2.431	(0.581)	134048	283.159	283.15
	149 Isopropyl Alcohol	45	2.101	2.097	(0.502)	69696	266.721	266.72

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Purge Volume: 5.0
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Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 28-JUN-2023 15:06
InstruID : voa6.i
LabSampID : HS23061821-02MS

Chloroethane (75-00-3)

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06-Jul-2023
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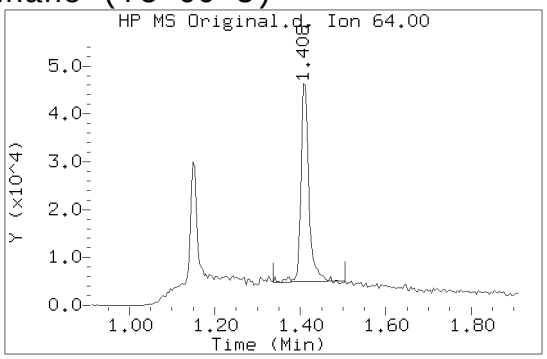

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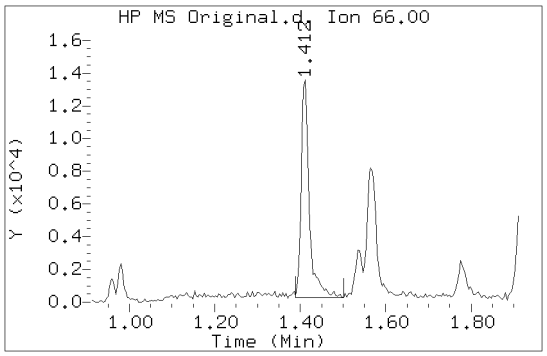

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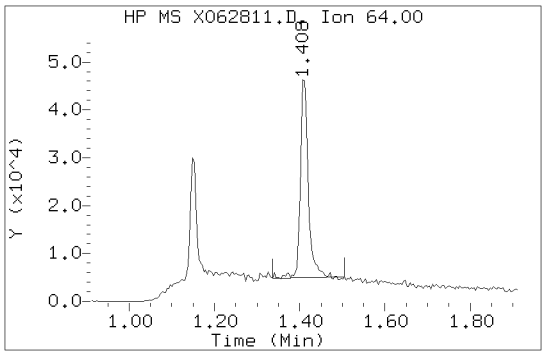

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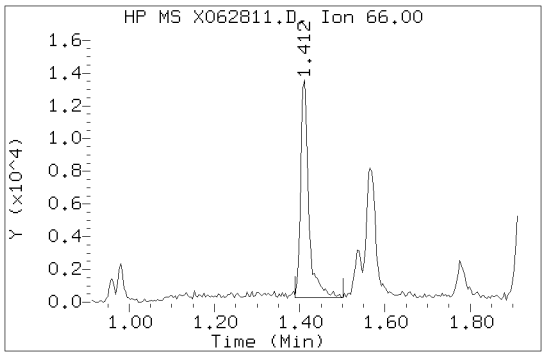

1,2,3-Trichloropropane (96-18-4)

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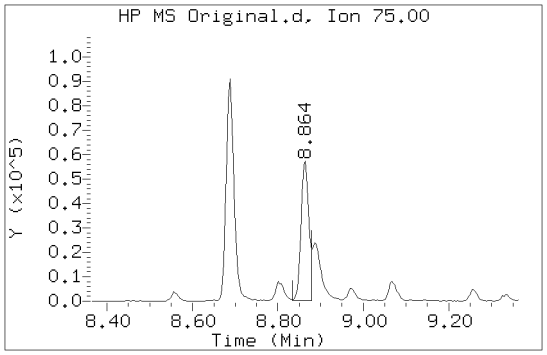

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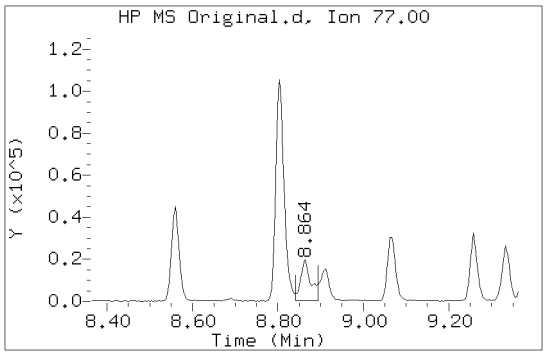

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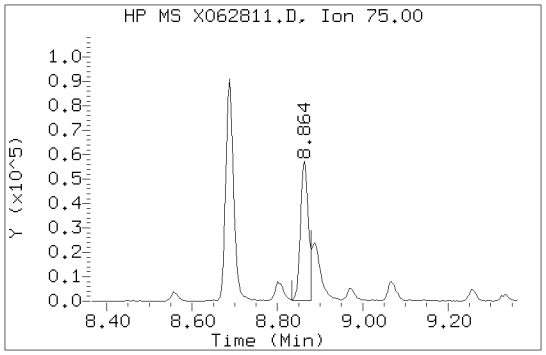

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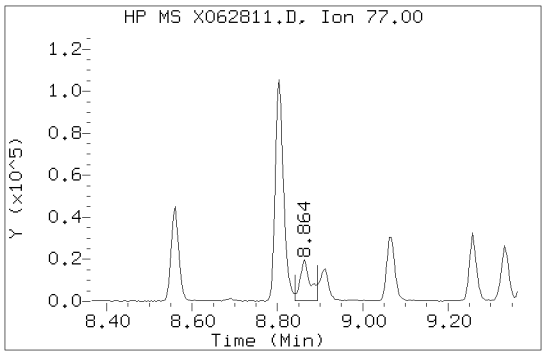

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InstruID : voa6.i
LabSampID : HS23061821-02MS

Chloroprene (126-99-8)

Reason Code:

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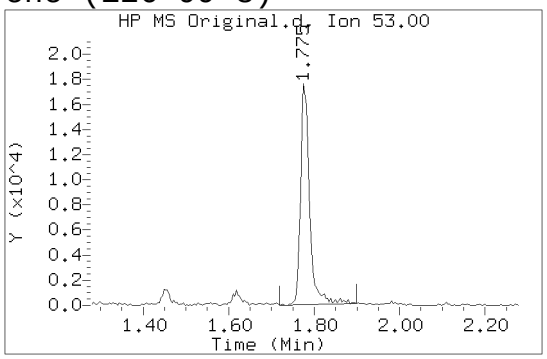

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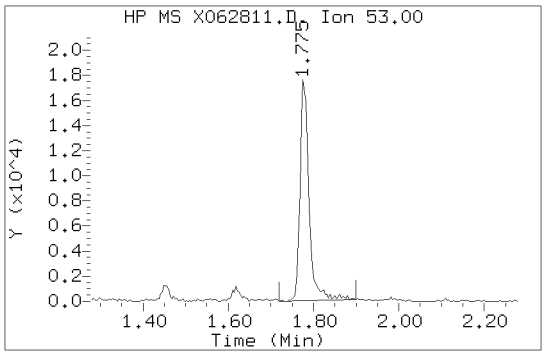

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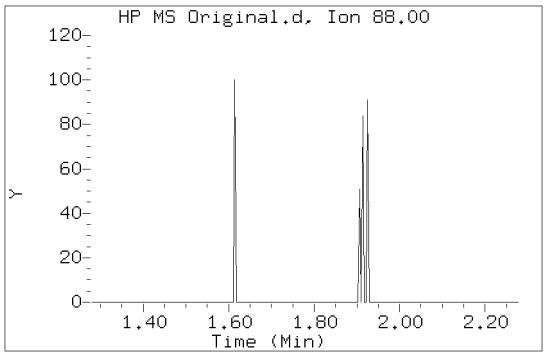

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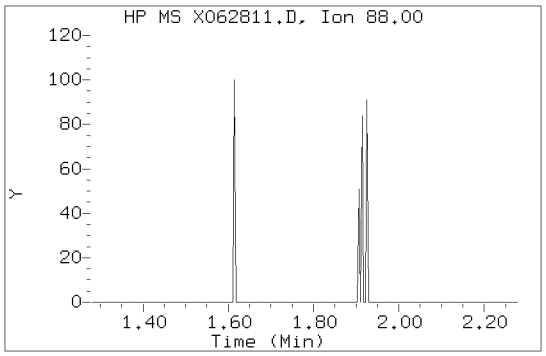

Acetaldehyde (75-07-0)

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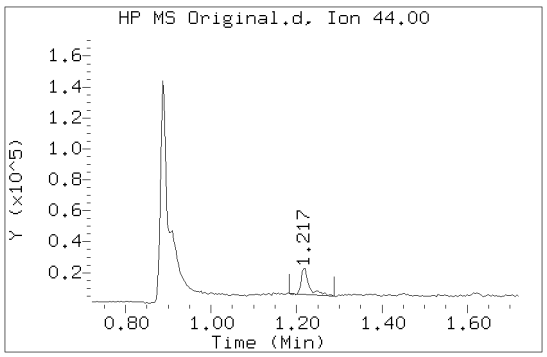

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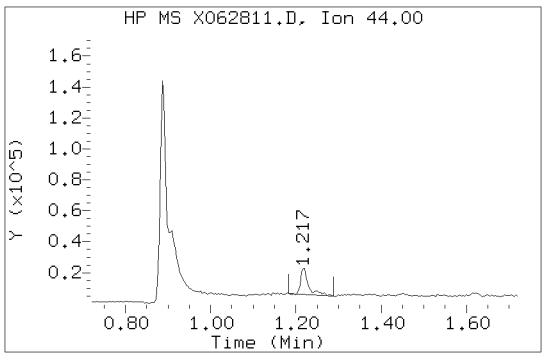

BEFORE

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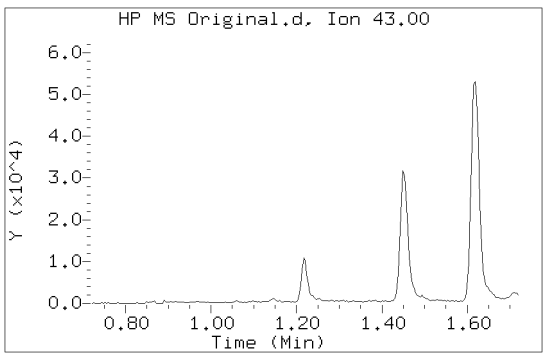

AFTER

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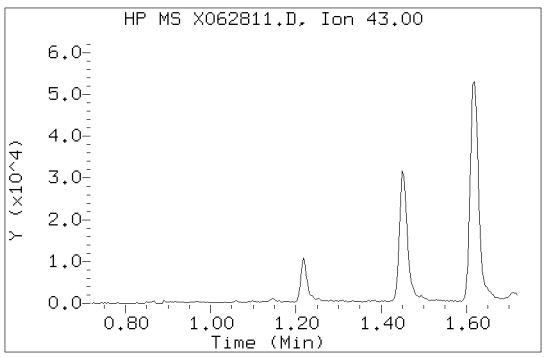

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Inj Date : 28-JUN-2023 15:06
InstruID : voa6.i
LabSampID : HS23061821-02MS

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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42
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HEIGHT
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06-Jul-2023
12:06
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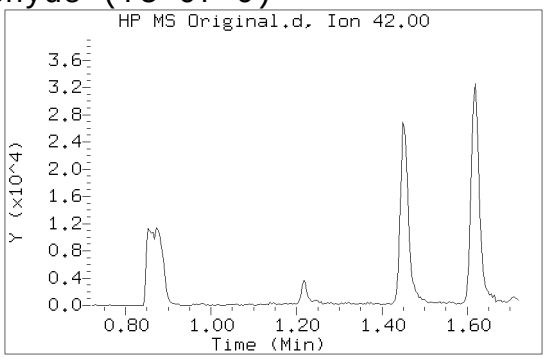
pham



AFTER

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06-Jul-2023
12:06
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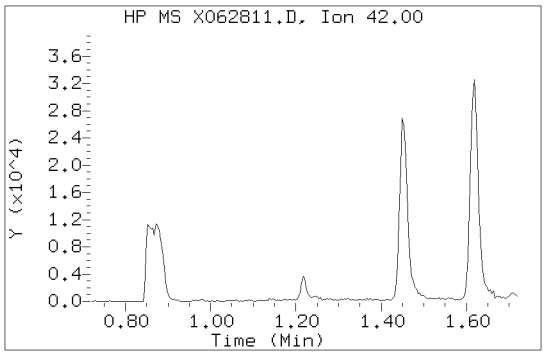

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062812.D Page 1
Report Date: 06-Jul-2023 12:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062812.D
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Inj Date : 28-JUN-2023 15:27
Operator : PC Inst ID: voa6.i
Smp Info : HS23061821-02MSD;HS230611821-02MSD;3;;MSD
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\8260W.m
Meth Date : 06-Jul-2023 12:06 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 10 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.181	(1.000)	454651	50.0000	
135 1,4-Dioxane	88	5.606	5.595	(1.341)	18132	329.084	329.08(a)
140 1,3-Butadiene	54	1.171	1.171	(0.280)	62479	16.5828	16.58
25 Methacrylonitrile	41	3.829	3.825	(0.916)	58030	15.4690	15.46
12 Isobutyl Alcohol	43	4.676	4.676	(1.118)	180766	304.927	304.92
13 Acetonitrile	39	2.206	2.202	(0.528)	70819	160.594	160.59
14 Allyl Chloride	41	2.206	2.202	(0.528)	161953	16.2431	16.24
4 Propionitrile	54	3.656	3.653	(0.875)	91563	166.524	166.52(a)
72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	22407	15.8628	15.86
194 Acetaldehyde	44	1.220	1.216	(0.292)	22940	94.0819	94.08(M)
23 Chloroprene	53	1.778	1.775	(0.425)	24698	16.3440	16.34(M)
130 Ethyl Acetate	43	3.660	3.657	(0.875)	68648	14.8125	14.81
40 Methyl Methacrylate	41	5.609	5.606	(1.342)	55290	15.7090	15.70
49 Ethyl Methacrylate	69	6.708	6.708	(1.351)	76589	16.7049	16.70
131 Methyl Acrylate	55	3.698	3.690	(0.884)	64244	17.4468	17.44
136 n-Hexane	57	2.775	2.776	(0.664)	85830	21.1825	21.18
139 Diethyl ether	59	1.763	1.764	(0.422)	48437	17.0052	17.00
156 Diisopropyl ether	45	3.004	3.001	(0.719)	214121	15.9686	15.96
166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	346343	22.1989	22.19
2 Dichlorodifluoromethane	85	0.980	0.980	(0.234)	59328	15.3844	15.38

3 Chloromethane	50	1.085	1.085 (0.260)	82865	17.9148	17.91
5 Vinyl Chloride	62	1.149	1.149 (0.275)	77780	16.2897	16.28

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062812.D Page 2
Report Date: 06-Jul-2023 12:07

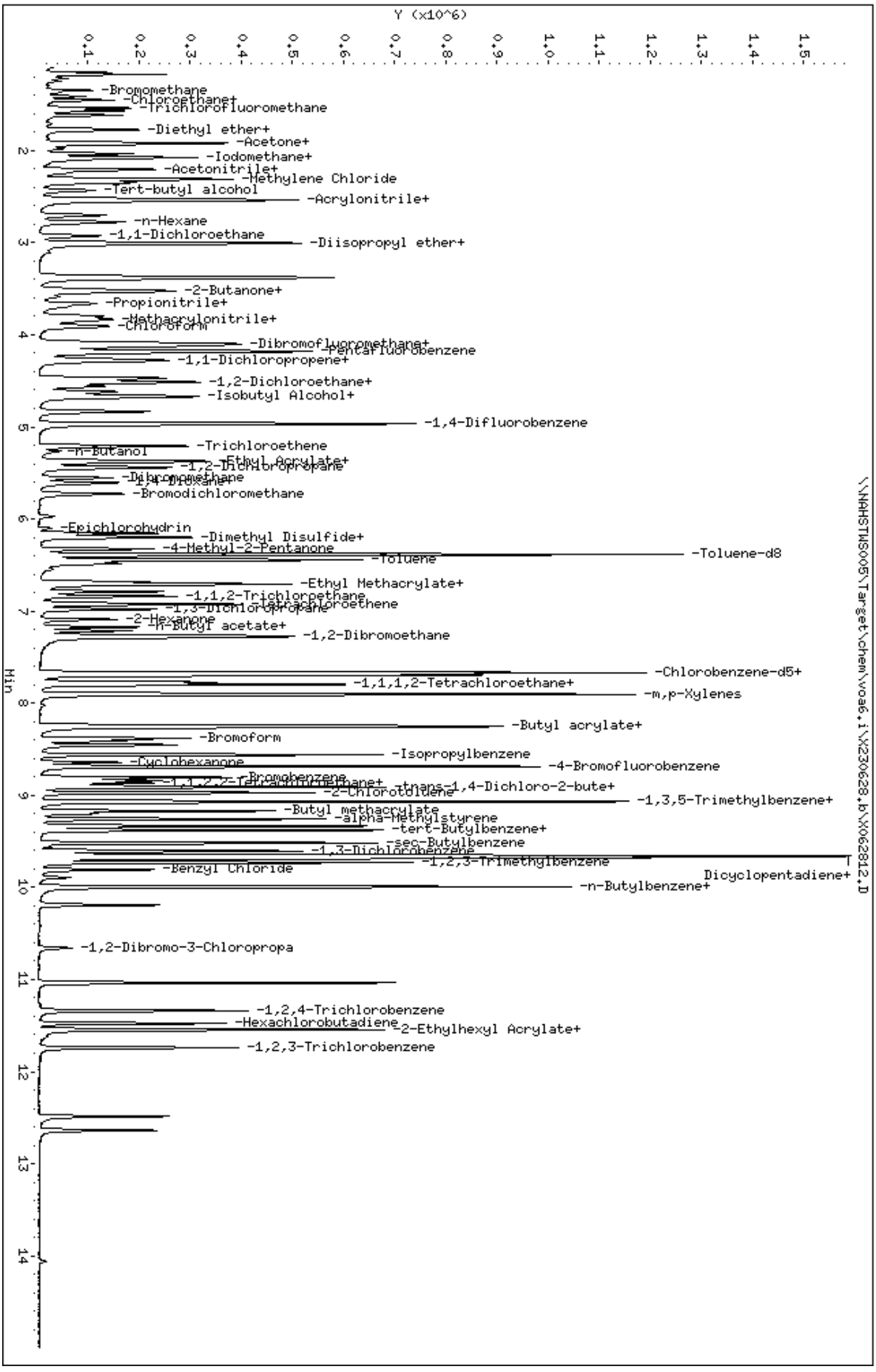
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	6 Bromomethane	94	1.347	1.344	(0.322)	42280	15.4261	15.42
	7 Chloroethane	64	1.411	1.407	(0.338)	58302	19.9755	19.97
	8 Trichlorofluoromethane	101	1.568	1.565	(0.375)	95422	16.8171	16.81
	9 Acrolein	56	1.452	1.452	(0.347)	10411	36.9031	36.90
	10 Acetone	43	1.981	1.977	(0.474)	30491	25.5175	25.51
	11 1,1-Dichloroethene	96	1.921	1.917	(0.459)	60065	16.8747	16.87
	15 Iodomethane	142	2.033	2.034	(0.486)	179271	32.2285	32.22
	16 Acrylonitrile	53	2.543	2.536	(0.608)	48581	33.6631	33.66
	17 Methylene Chloride	84	2.311	2.307	(0.553)	84421	16.7907	16.79
	18 Methyl tert-butyl ether	73	2.539	2.540	(0.607)	202302	16.2840	16.28
	19 Carbon Disulfide	76	2.074	2.075	(0.496)	369599	29.1614	29.16
	20 trans-1,2-Dichloroethene	96	2.536	2.532	(0.606)	71193	16.7150	16.71
	21 Vinyl Acetate	43	3.004	3.001	(0.719)	337376	29.6776	29.67
	22 1,1-Dichloroethane	63	2.925	2.922	(0.700)	123859	16.1425	16.14
	24 2-Butanone	43	3.589	3.578	(0.858)	37484	25.0522	25.05
	26 2,2-Dichloropropane	77	3.514	3.510	(0.840)	102255	16.8848	16.88
	27 cis-1,2-Dichloroethene	96	3.529	3.529	(0.844)	105362	21.4514	21.45
	28 Chloroform	83	3.911	3.908	(0.935)	126590	15.3286	15.32
	29 Bromochloromethane	128	3.795	3.795	(0.908)	43595	16.6565	16.65
$	30 Dibromofluoromethane	113	4.102	4.099	(0.981)	182381	44.8819	44.88
	31 1,1,1-Trichloroethane	97	4.080	4.084	(0.976)	110691	16.5835	16.58
	32 1,1-Dichloropropene	75	4.282	4.279	(0.863)	97882	18.2619	18.26
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	98442	18.3292	18.32
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	98834	19.1733	19.17
$	35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.070)	179225	40.7355	40.73
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	639658	50.0000	
	37 Benzene	78	4.515	4.511	(0.909)	296480	18.0190	18.01
	38 Trichloroethene	130	5.208	5.209	(1.049)	105294	23.2099	23.20
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	97443	16.7420	16.74
	42 1,2-Dichloropropane	63	5.433	5.434	(1.094)	75344	17.4456	17.44
	44 Dibromomethane	93	5.553	5.553	(1.119)	48006	17.7071	17.70
	45 4-Methyl-2-Pentanone	43	6.325	6.322	(0.825)	126092	33.6342	33.63
	46 cis-1,3-Dichloropropene	75	6.157	6.153	(1.240)	125063	17.4272	17.42
*	47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	580351	50.0000	
$	48 Toluene-d8	98	6.385	6.386	(0.833)	746245	50.8599	50.85
	50 Toluene	91	6.445	6.446	(0.841)	335906	19.7156	19.71
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	103617	17.2573	17.25
	52 2-Hexanone	43	7.086	7.083	(0.924)	82189	32.8209	32.82
	53 1,1,2-Trichloroethane	83	6.839	6.836	(0.892)	60394	18.1952	18.19
	54 1,3-Dichloropropane	76	6.981	6.978	(0.911)	120822	18.0029	18.00
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	88102	18.7287	18.72
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	75494	21.5477	21.54
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	76183	17.9567	17.95
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	73692	18.9444	18.94
	59 Chlorobenzene	112	7.694	7.690	(1.003)	228802	19.6264	19.62
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.773	(1.014)	82536	18.9868	18.98
	61 Ethylbenzene	106	7.799	7.795	(1.017)	118871	19.7910	19.79
	62 m,p-Xylenes	106	7.904	7.900	(1.031)	302705	40.8675	40.86
	63 o-Xylene	106	8.241	8.238	(1.075)	146876	19.8723	19.87
	64 Styrene	104	8.260	8.256	(1.077)	244598	20.0915	20.09
	66 Bromoform	173	8.410	8.410	(1.097)	60341	18.3997	18.39
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	374833	20.5178	20.51

	68	1,1,2,2-Tetrachloroethane	83	8.837	8.837 (0.915)	97305	16.8596	16.85
$	69	4-Bromofluorobenzene	95	8.687	8.687 (1.133)	268552	47.3685	47.36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	328228	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.860	(0.917)	70321	16.9917	16.99
	73 n-Propylbenzene	91	8.912	8.909	(0.922)	441597	20.4452	20.44
	74 Bromobenzene	156	8.803	8.804	(0.911)	106625	19.9311	19.93
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	319129	20.1359	20.13
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	264269	19.2671	19.26
	77 4-Chlorotoluene	91	9.069	9.066	(0.939)	299389	19.5687	19.56
	78 tert-Butylbenzene	119	9.332	9.332	(0.966)	277489	21.0157	21.01
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	317885	19.8801	19.88
	81 sec-Butylbenzene	105	9.519	9.520	(0.985)	392037	21.0521	21.05
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	343727	21.0825	21.08
	83 1,3-Dichlorobenzene	146	9.605	9.602	(0.994)	192015	20.1581	20.15
	84 1,4-Dichlorobenzene	146	9.680	9.681	(1.002)	202273	19.8391	19.83
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	294524	21.2099	21.20
	88 1,2-Dichlorobenzene	146	9.992	9.988	(1.034)	184511	19.5222	19.52
	89 1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	17028	18.2455	18.24
	90 1,2,4-Trichlorobenzene	180	11.337	11.334	(1.173)	131437	19.9914	19.99
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	63330	21.4591	21.45
	92 Naphthalene	128	11.544	11.540	(1.195)	275147	18.5902	18.59
	93 1,2,3-Trichlorobenzene	180	11.742	11.739	(1.215)	119200	19.7032	19.70
M	94 1,2-Dichloroethylene (total)	96				176555	38.1664	38.16
M	95 Xylenes (total)	106				449581	60.7398	60.73
	141 Cyclohexane	56	4.125	4.121	(0.987)	117376	20.2528	20.25
	138 Freon TF	101	1.921	1.921	(0.459)	77923	24.8936	24.89
	147 Methylcyclohexane	55	5.385	5.381	(1.085)	188953	21.1358	21.13
	146 Methyl Acetate	43	2.239	2.236	(0.536)	38147	14.1756	14.17
	148 Tert-Butyl alcohol	59	2.434	2.431	(0.582)	125935	269.740	269.73
	149 Isopropyl Alcohol	45	2.101	2.097	(0.502)	66870	259.483	259.48

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 28-JUN-2023 15:27
InstruID : voa6.i
LabSampID : HS23061821-02MSD

Chloroprene (126-99-8)

Reason Code:

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06-Jul-2023
12:06
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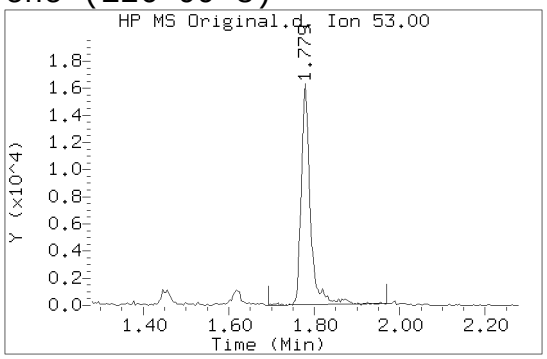

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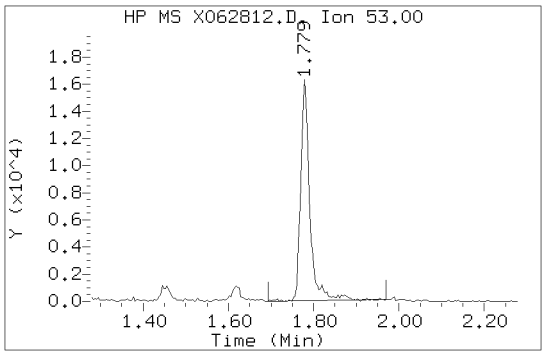

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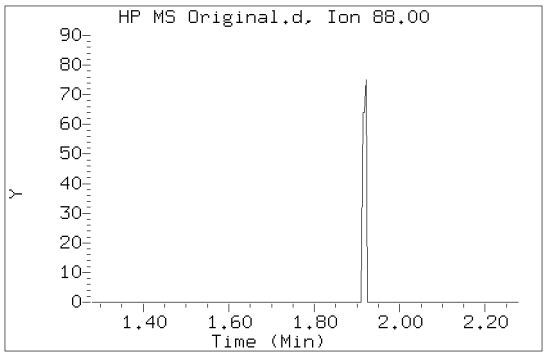

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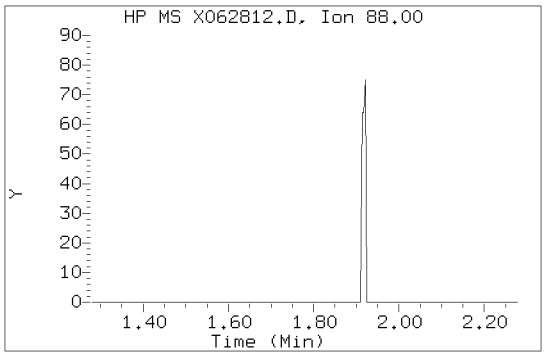

Acetaldehyde (75-07-0)

Reason Code:

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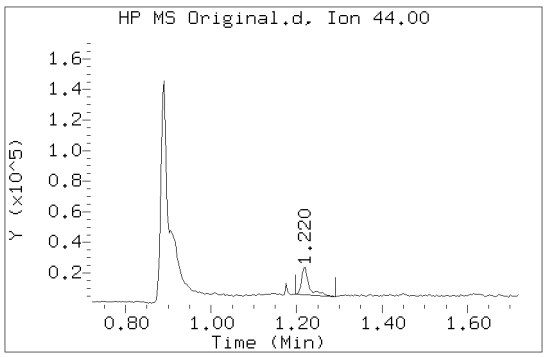

AFTER
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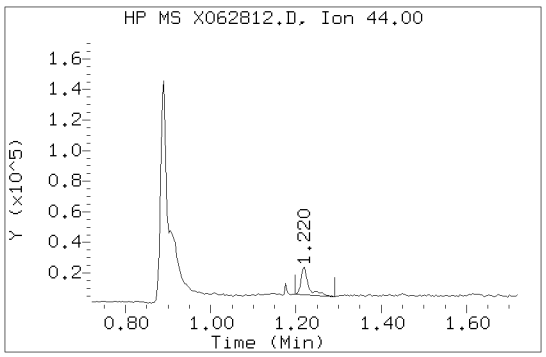

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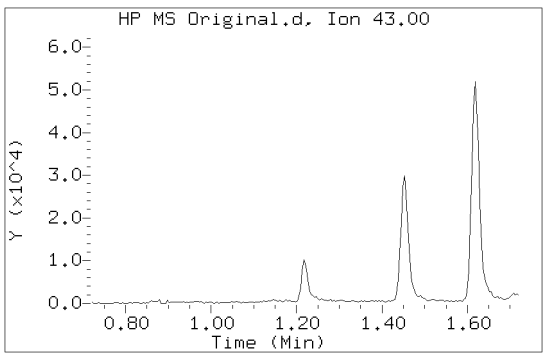

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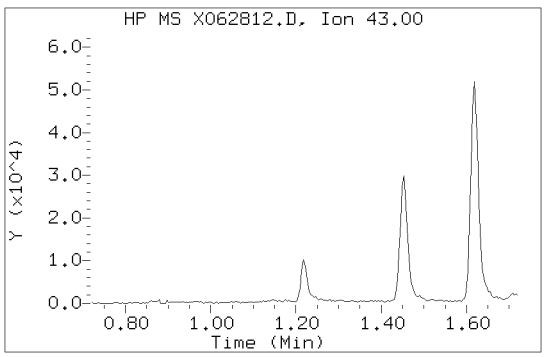

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Inj Date : 28-JUN-2023 15:27
InstruID : voa6.i
LabSampID : HS23061821-02MSD

Acetaldehyde (75-07-0)

Reason Code:

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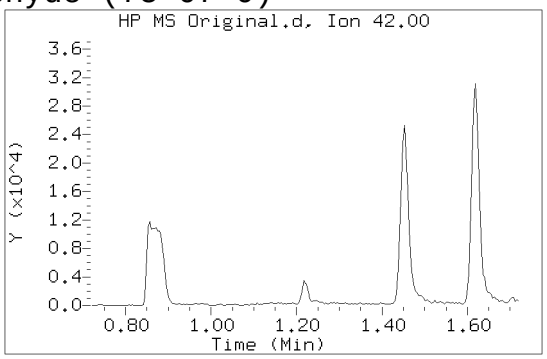

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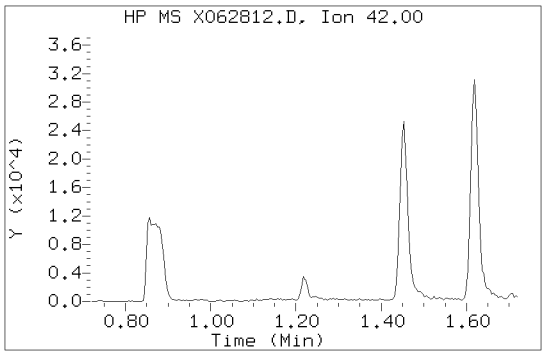

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Report Date: 06-Jul-2023 12:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062813.D
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Inj Date : 28-JUN-2023 15:48
Operator : PC Inst ID: voa6.i
Smp Info : HS23061712-01;HS230611712-01;;;
Misc Info : V6;WATER;0;100;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\8260W.m
Meth Date : 06-Jul-2023 12:06 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 11
Dil Factor: 100.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.181	(1.000)	451415	50.0000	
	27 cis-1,2-Dichloroethene	96	3.544	3.529	(0.848)	5225	1.07142	107.14(a)
$	30 Dibromofluoromethane	113	4.099	4.099	(0.980)	184738	45.7948	45.79
	33 1,2-Dichloroethane	62	4.571	4.556	(0.921)	5009	0.93840	93.84(a)
$	35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.070)	183220	41.9675	41.96
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	635728	50.0000	
	38 Trichloroethene	130	5.209	5.209	(1.049)	230010	51.0144	5101.43
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	558565	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	736305	52.1398	52.13
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	248965	45.6067	45.60
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	292924	50.0000	
M	94 1,2-Dichloroethylene (total)	96				5225	1.07142	107.14(a)
	138 Freon TF	101	1.921	1.921	(0.459)	71448	23.0069	2300.69

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01201687

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062813.D

Date : 28-JUN-2023 15:48

Client ID: HS230611712-01

Instrument: voa6.i

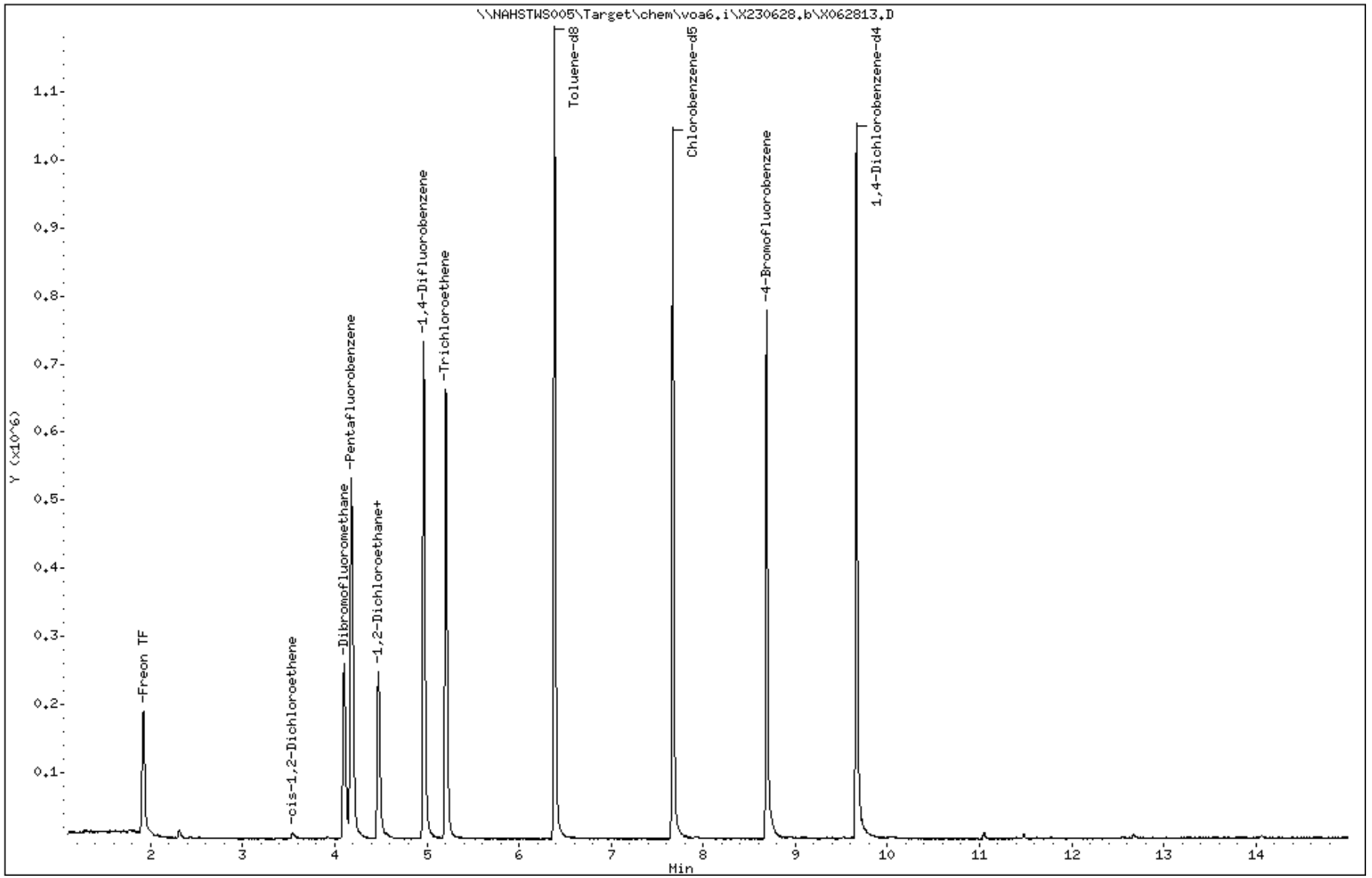
Sample Info: HS23061712-01;HS230611712-01;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062813.D

Date : 28-JUN-2023 15:48

Client ID: HS230611712-01

Instrument: voa6.i

Sample Info: HS23061712-01;HS230611712-01;;;

Purge Volume: 5.0

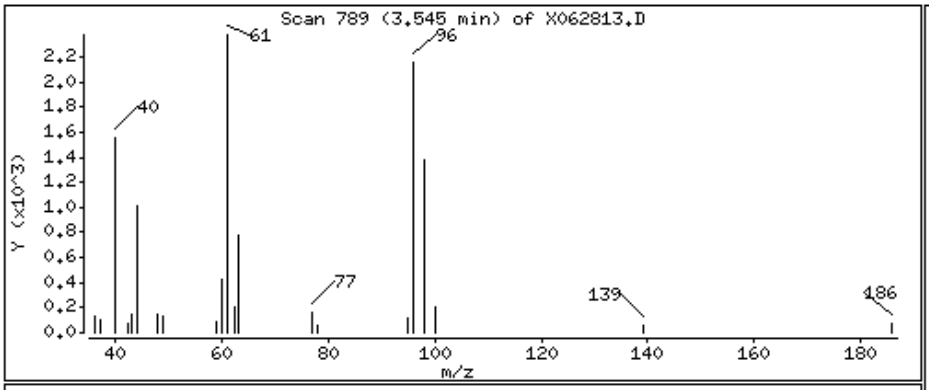
Operator: PC

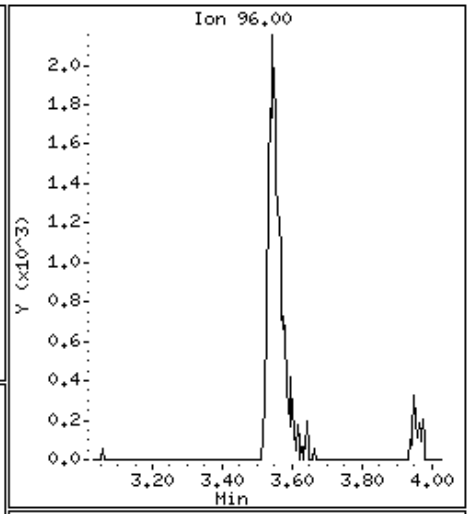
Column phase: DB624

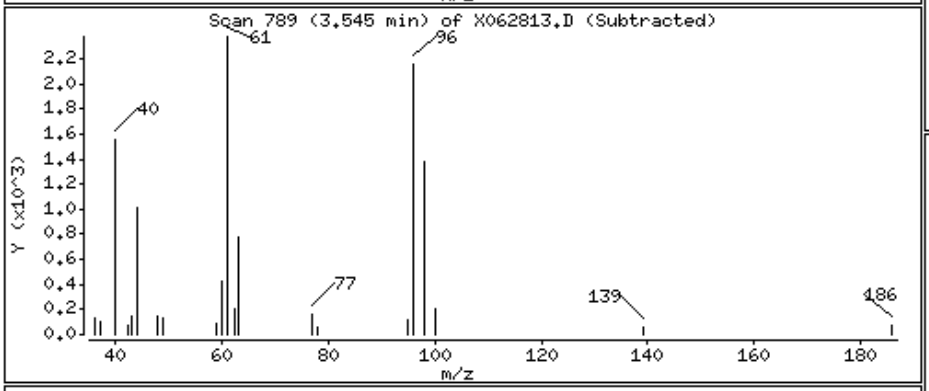
Column diameter: 0.18

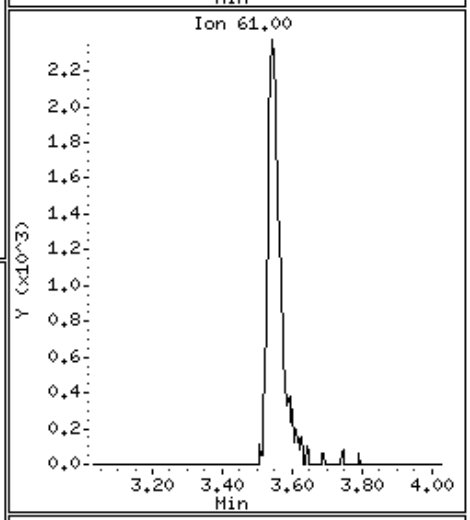
27 cis-1,2-Dichloroethene

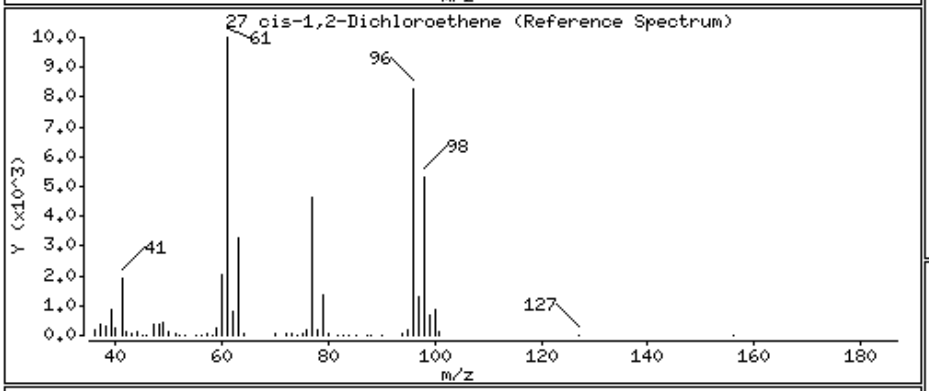
Concentration: 107.14 ug/l

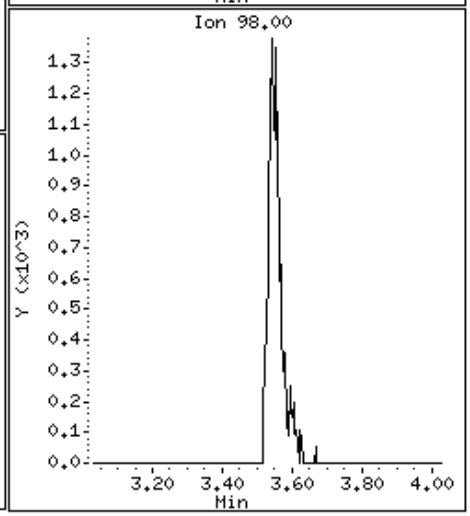


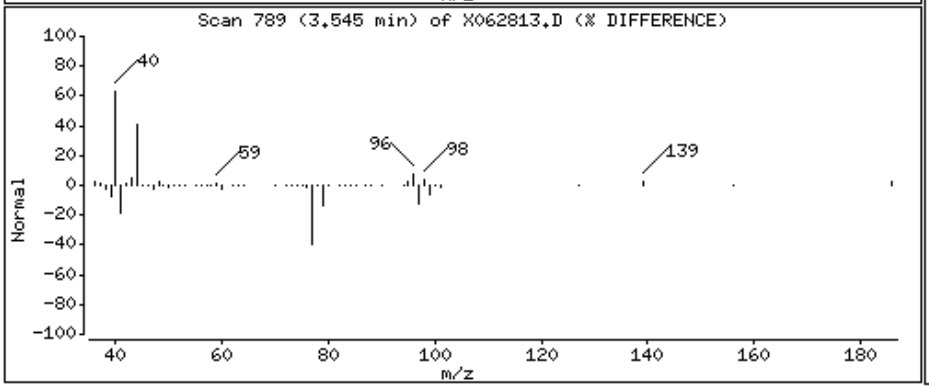












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062813.D

Date : 28-JUN-2023 15:48

Client ID: HS230611712-01

Instrument: voa6.i

Sample Info: HS23061712-01;HS230611712-01;;;

Purge Volume: 5.0

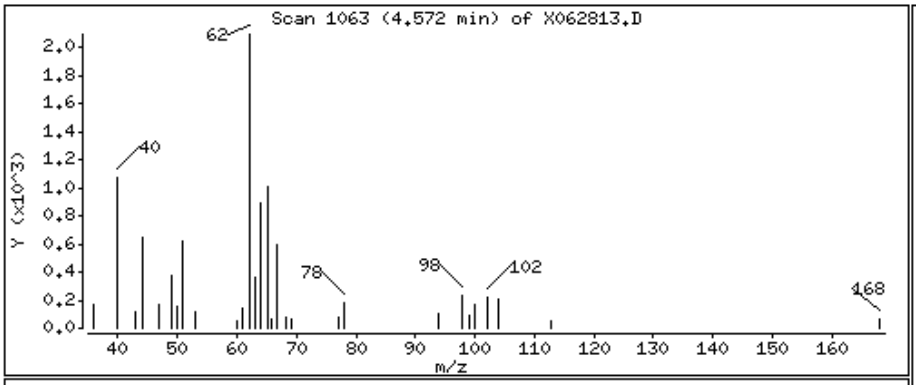
Operator: PC

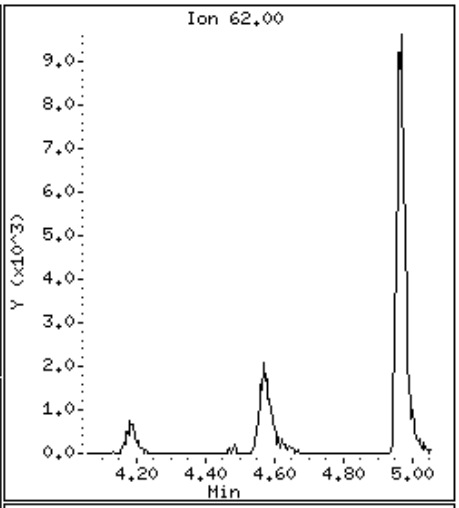
Column phase: DB624

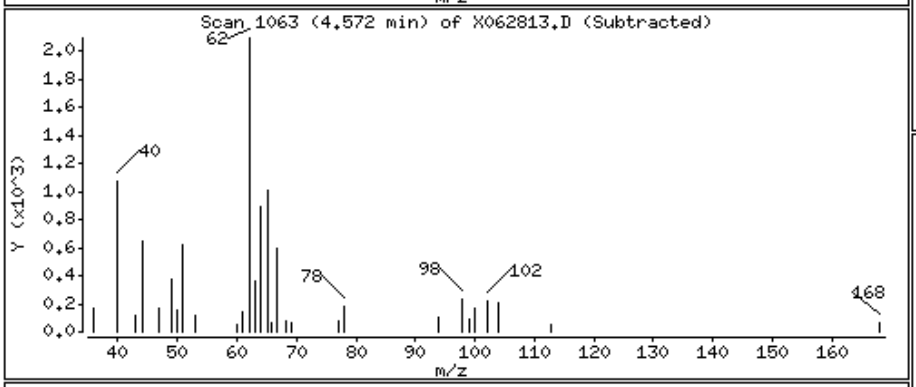
Column diameter: 0.18

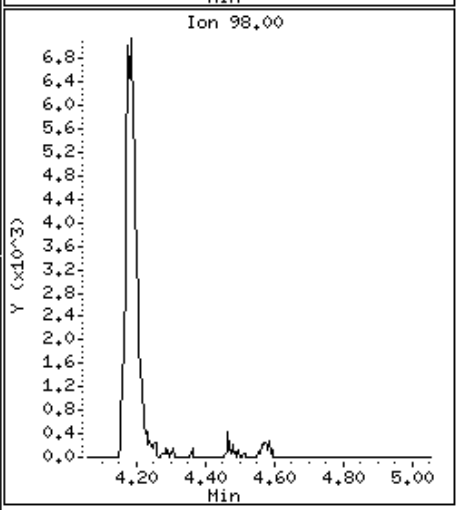
33 1,2-Dichloroethane

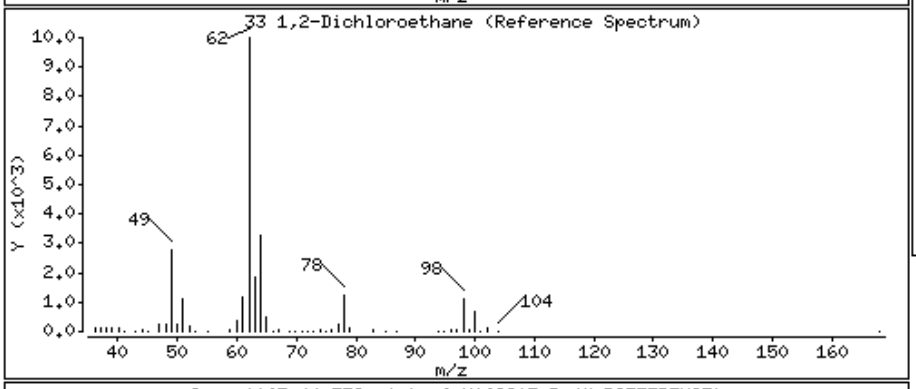
Concentration: 93.84 ug/l

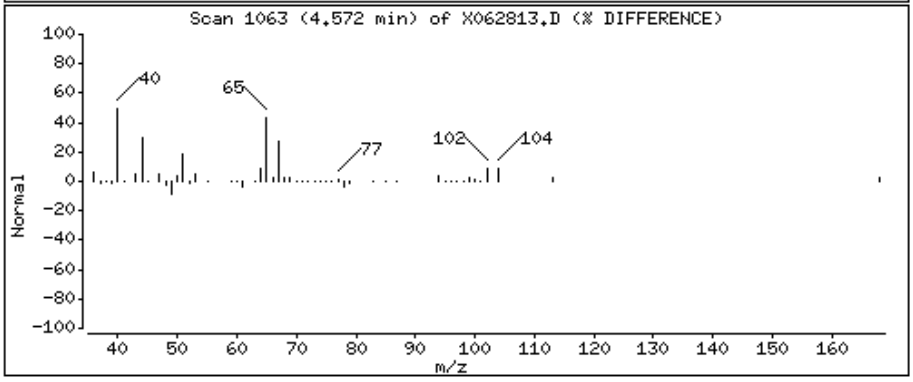












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062813.D Page 4

Date : 28-JUN-2023 15:48

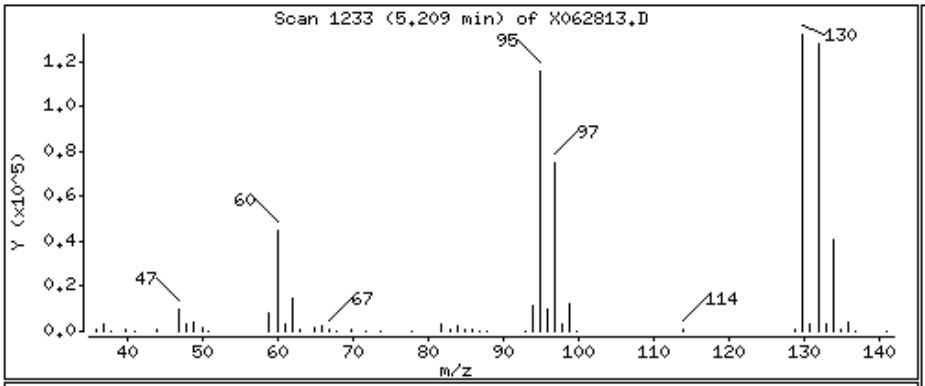
Client ID: HS230611712-01 Instrument: voa6.i

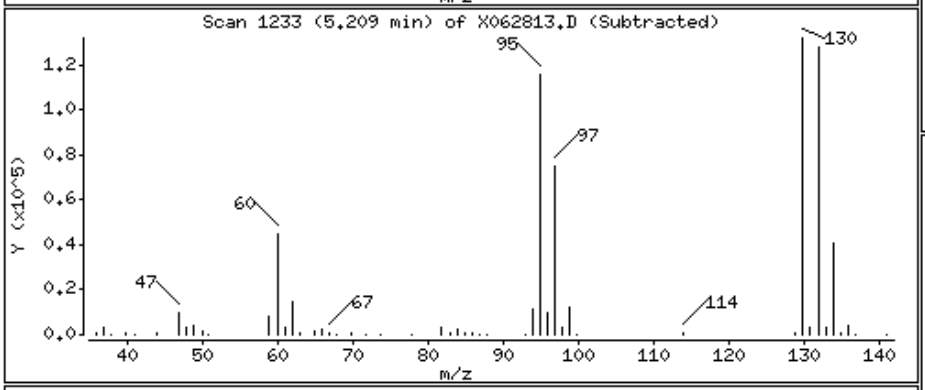
Sample Info: HS23061712-01;HS230611712-01;;;

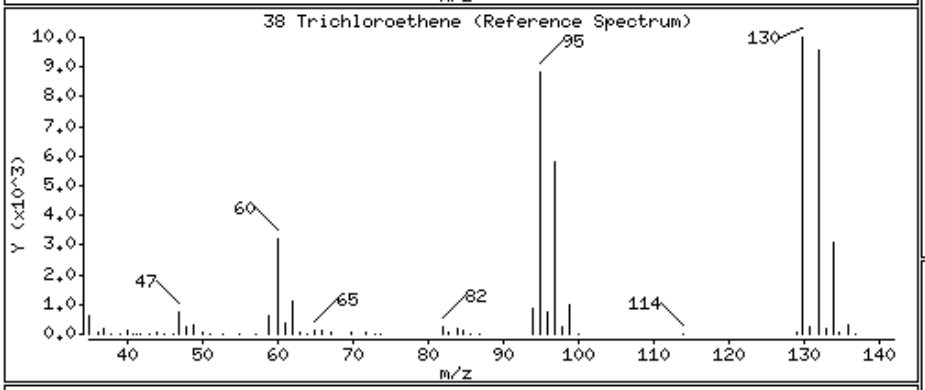
Purge Volume: 5.0 Operator: PC

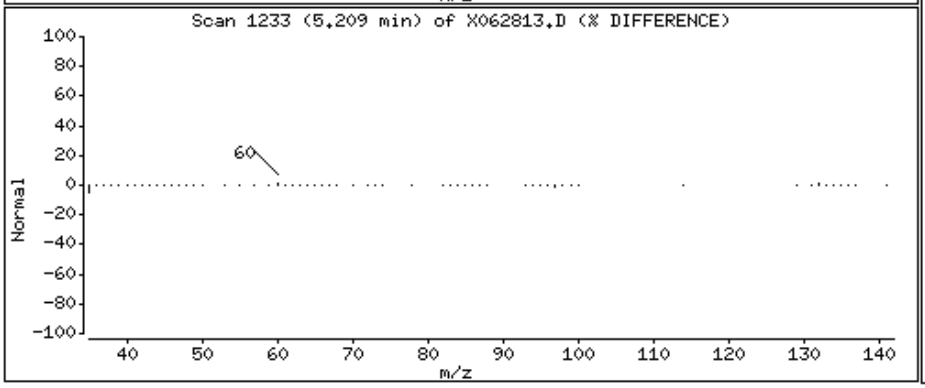
Column phase: DB624 Column diameter: 0.18

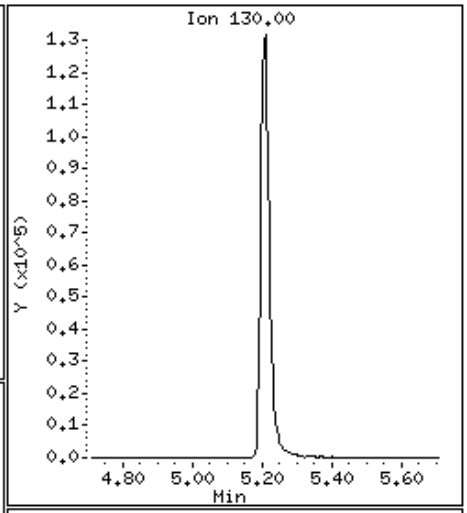
38 Trichloroethene Concentration: 5101.43 ug/l

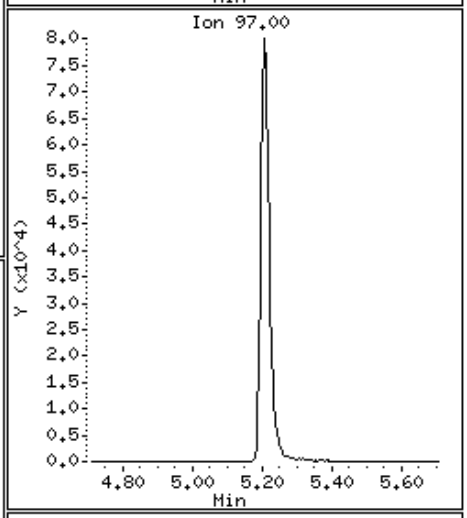


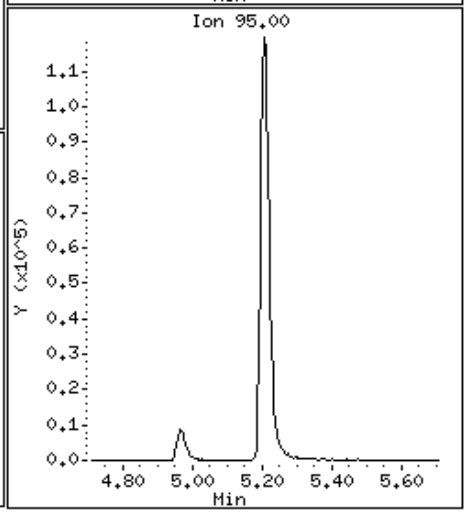












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062813.D Page 5

Date : 28-JUN-2023 15:48

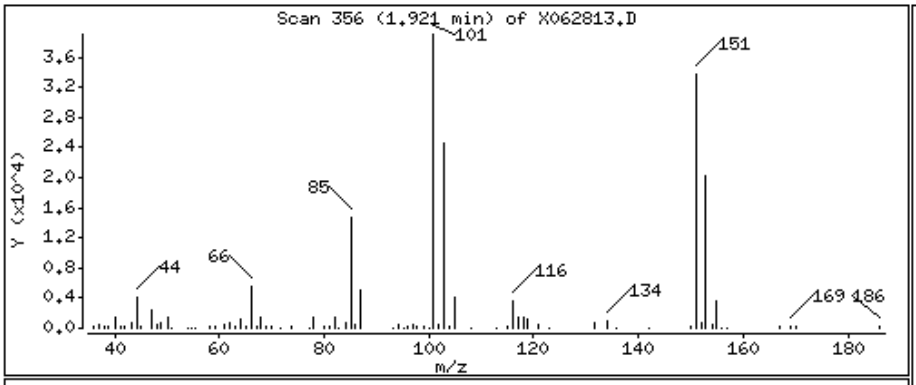
Client ID: HS230611712-01 Instrument: voa6.i

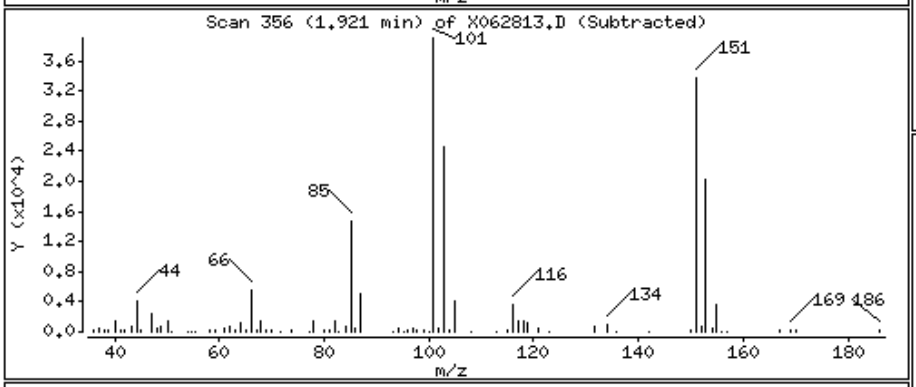
Sample Info: HS23061712-01;HS230611712-01;;;

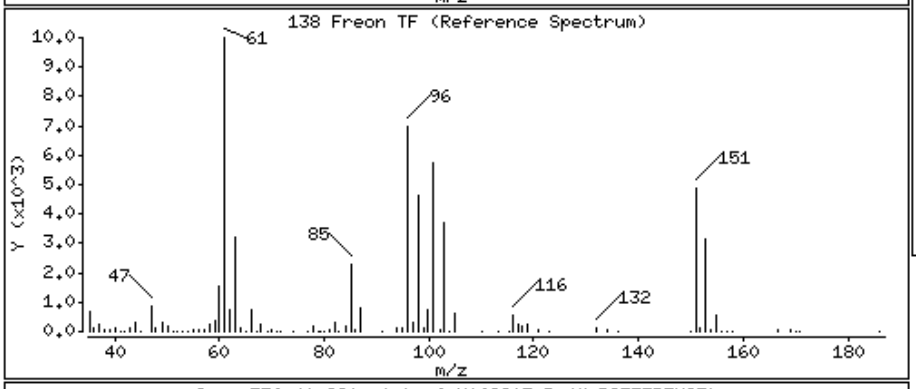
Purge Volume: 5.0 Operator: PC

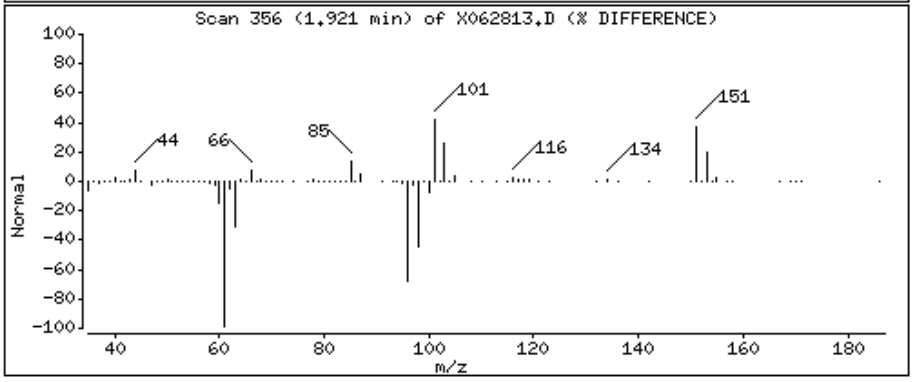
Column phase: DB624 Column diameter: 0.18

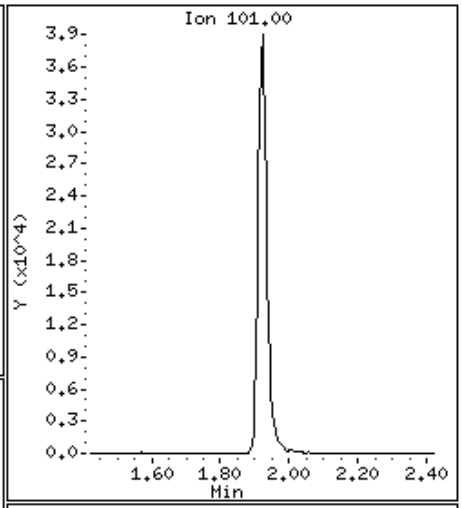
138 Freon TF Concentration: 2300.69 ug/l

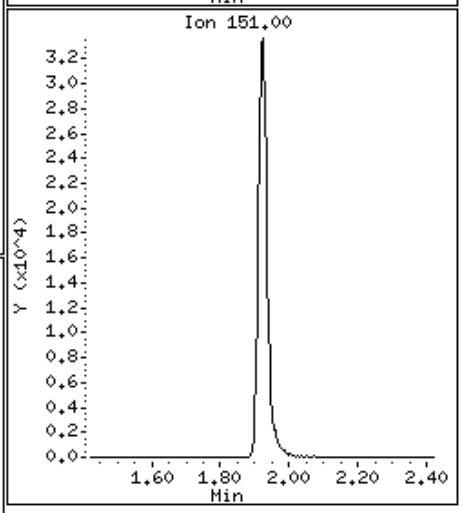












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062813.D
Inj Date : 28-JUN-2023 15:48
InstruID : voa6.i
LabSampID : HS23061712-01

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062830.D Page 1
Report Date: 06-Jul-2023 12:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062830.D
Lab Smp Id: CCV-END Client Smp ID: CCV-END
Inj Date : 28-JUN-2023 21:45
Operator : PC Inst ID: voa6.i
Smp Info : CCV-END;CCV-END;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\8260W.m
Meth Date : 06-Jul-2023 12:07 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.185	4.185	(1.000)	401423	50.0000	
135 1,4-Dioxane	88	5.598	5.598	(1.338)	43520	1000.00	894.59
140 1,3-Butadiene	54	1.171	1.171	(0.280)	133505	50.0000	40.13
25 Methacrylonitrile	41	3.821	3.821	(0.913)	139087	50.0000	41.99
12 Isobutyl Alcohol	43	4.676	4.676	(1.117)	424727	1000.00	811.45
13 Acetonitrile	39	2.206	2.206	(0.527)	152869	500.000	392.62
14 Allyl Chloride	41	2.206	2.206	(0.527)	348940	50.0000	39.63
4 Propionitrile	54	3.653	3.653	(0.873)	214660	500.000	442.16
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	55081	50.0000	39.95
194 Acetaldehyde	44	1.220	1.220	(0.292)	44758	200.000	212.07
23 Chloroprene	53	1.778	1.778	(0.425)	54949	50.0000	41.18(M)
130 Ethyl Acetate	43	3.660	3.660	(0.875)	156582	50.0000	38.26
40 Methyl Methacrylate	41	5.606	5.606	(1.339)	134811	50.0000	43.38
49 Ethyl Methacrylate	69	6.708	6.708	(1.350)	179801	50.0000	41.79
131 Methyl Acrylate	55	3.690	3.690	(0.882)	154354	50.0000	47.47
136 n-Hexane	57	2.775	2.775	(0.663)	155865	50.0000	42.74
139 Diethyl ether	59	1.763	1.763	(0.421)	109614	50.0000	43.58
156 Diisopropyl ether	45	3.004	3.004	(0.718)	503068	50.0000	42.49
166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	760781	50.0000	48.78
2 Dichlorodifluoromethane	85	0.980	0.980	(0.234)	123908	50.0000	35.93

3 Chloromethane	50	1.085	1.085 (0.259)	172154	50.0000	40.76
5 Vinyl Chloride	62	1.152	1.152 (0.275)	170321	50.0000	40.40

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062830.D Page 2
Report Date: 06-Jul-2023 12:07

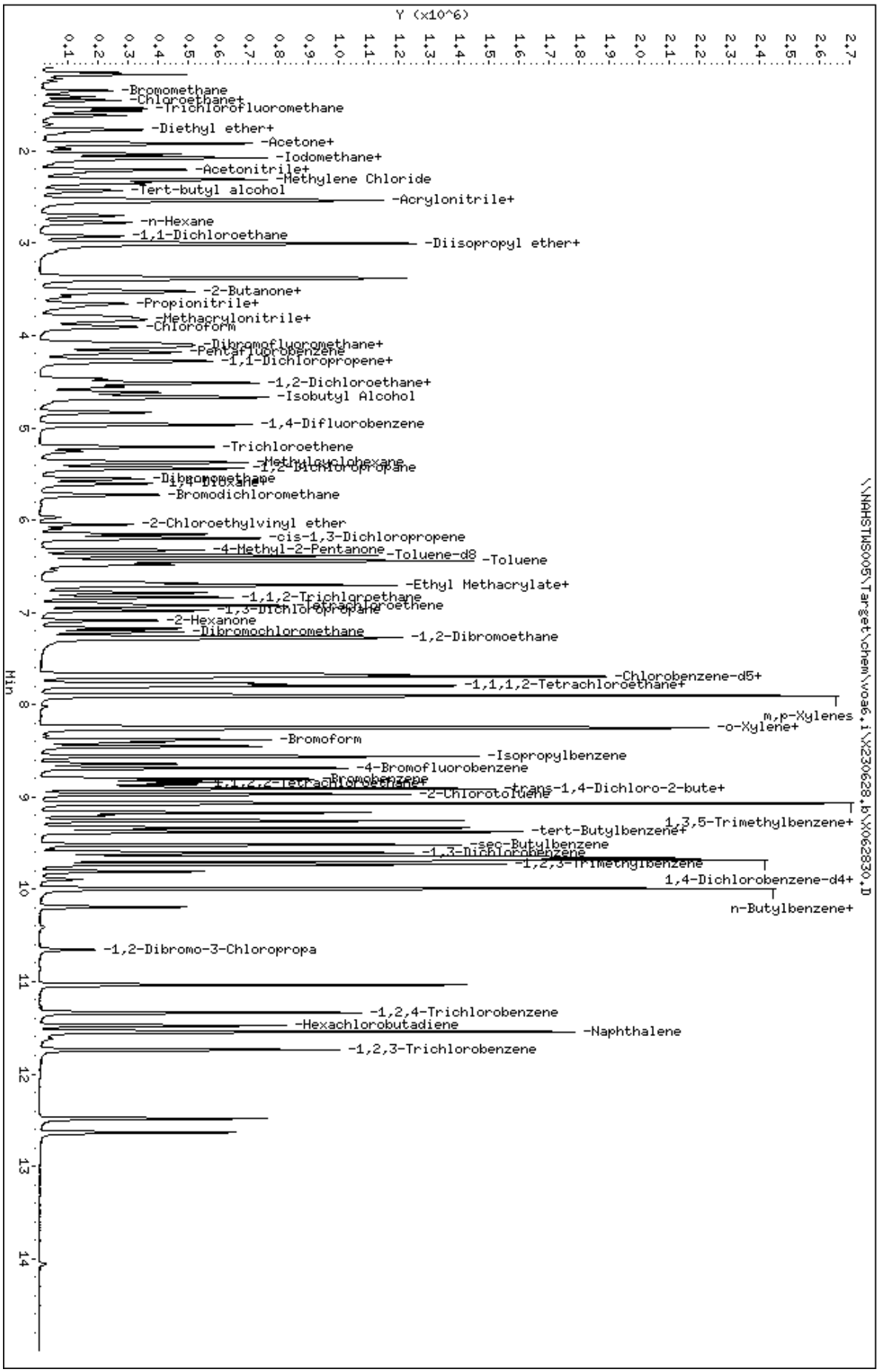
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	6 Bromomethane	94	1.347	1.347	(0.322)	112102	50.0000	46.32
	7 Chloroethane	64	1.411	1.411	(0.337)	112457	50.0000	43.63
	8 Trichlorofluoromethane	101	1.568	1.568	(0.375)	213111	50.0000	42.53
	9 Acrolein	56	1.452	1.452	(0.347)	20954	100.000	84.12
	10 Acetone	43	1.977	1.977	(0.472)	74593	100.000	71.18
	11 1,1-Dichloroethene	96	1.921	1.921	(0.459)	133331	50.0000	42.42
	15 Iodomethane	142	2.033	2.033	(0.486)	487353	100.000	93.70
	16 Acrylonitrile	53	2.539	2.539	(0.607)	111802	100.000	87.74
	17 Methylene Chloride	84	2.311	2.311	(0.552)	183888	50.0000	41.42
	18 Methyl tert-butyl ether	73	2.539	2.539	(0.607)	469277	50.0000	42.78
	19 Carbon Disulfide	76	2.074	2.074	(0.496)	884257	100.000	79.01
	20 trans-1,2-Dichloroethene	96	2.536	2.536	(0.606)	161974	50.0000	43.07
	21 Vinyl Acetate	43	3.000	3.000	(0.717)	856742	100.000	85.35
	22 1,1-Dichloroethane	63	2.925	2.925	(0.699)	278067	50.0000	41.04
	24 2-Butanone	43	3.578	3.578	(0.855)	107183	100.000	81.13
	26 2,2-Dichloropropane	77	3.510	3.510	(0.839)	210129	50.0000	39.30
	27 cis-1,2-Dichloroethene	96	3.529	3.529	(0.843)	191975	50.0000	44.26
	28 Chloroform	83	3.908	3.908	(0.934)	299372	50.0000	41.05
	29 Bromochloromethane	128	3.795	3.795	(0.907)	101103	50.0000	43.75
$	30 Dibromofluoromethane	113	4.102	4.102	(0.980)	164108	50.0000	45.74
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.976)	244137	50.0000	41.42
	32 1,1-Dichloropropene	75	4.282	4.282	(0.862)	222663	50.0000	44.27
	33 1,2-Dichloroethane	62	4.556	4.556	(0.917)	208875	50.0000	41.45
	34 Carbon Tetrachloride	117	4.264	4.264	(0.858)	210810	50.0000	43.58
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.068)	154331	50.0000	39.70
*	36 1,4-Difluorobenzene	114	4.968	4.968	(1.000)	600138	50.0000	
	37 Benzene	78	4.515	4.515	(0.909)	702005	50.0000	45.47
	38 Trichloroethene	130	5.208	5.208	(1.048)	204531	50.0000	48.05
	39 Bromodichloromethane	83	5.726	5.726	(1.152)	234479	50.0000	42.93
	41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.217)	124634	100.000	84.34
	42 1,2-Dichloropropane	63	5.437	5.437	(1.094)	181178	50.0000	44.71
	44 Dibromomethane	93	5.553	5.553	(1.118)	114002	50.0000	44.81
	45 4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	299259	100.000	81.80
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.238)	295919	50.0000	43.95
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	566326	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	671413	50.0000	46.89
	50 Toluene	91	6.445	6.445	(0.841)	775724	50.0000	46.65
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.344)	247797	50.0000	43.98
	52 2-Hexanone	43	7.086	7.086	(0.924)	203286	100.000	83.18
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	144918	50.0000	44.74
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	292474	50.0000	44.65
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	212234	50.0000	46.23
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	163003	50.0000	47.67
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	189618	50.0000	45.80
	58 1-Chlorohexane	55	7.694	7.694	(1.548)	153759	50.0000	42.13
	59 Chlorobenzene	112	7.690	7.690	(1.003)	534897	50.0000	47.01
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	196983	50.0000	46.43
	61 Ethylbenzene	106	7.799	7.799	(1.017)	272380	50.0000	46.47
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	688444	100.000	95.24
	63 o-Xylene	106	8.237	8.237	(1.074)	330489	50.0000	45.82
	64 Styrene	104	8.256	8.256	(1.077)	575105	50.0000	48.40
	66 Bromoform	173	8.410	8.410	(1.097)	151485	50.0000	47.33

67	Isopropylbenzene	105	8.560	8.560 (1.116)	821732	50.0000	46.09
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837 (0.915)	244963	50.0000	42.46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	279969	50.0000	50.64	
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	328091	50.0000		
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	173407	50.0000	41.91	
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	954804	50.0000	44.22	
	74 Bromobenzene	156	8.803	8.803	(0.911)	250286	50.0000	46.80	
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	716951	50.0000	45.25	
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	592286	50.0000	43.19	
	77 4-Chlorotoluene	91	9.069	9.069	(0.939)	680834	50.0000	44.51	
	78 tert-Butylbenzene	119	9.332	9.332	(0.966)	601510	50.0000	45.57	
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	721519	50.0000	45.14	
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	837665	50.0000	45.00	
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	749686	50.0000	46.00	
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	444141	50.0000	46.64	
	84 1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	463051	50.0000	45.43	
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	636502	50.0000	45.85	
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	444967	50.0000	47.09	
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	45539	50.0000	48.37	
	90 1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	318009	50.0000	48.38	
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	142852	50.0000	48.42	
	92 Naphthalene	128	11.540	11.540	(1.194)	718021	50.0000	48.53	
	93 1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	299409	50.0000	49.51	
M	94 1,2-Dichloroethylene (total)	96				353949	100.000		(a)
	141 Cyclohexane	56	4.125	4.125	(0.986)	219901	50.0000	42.97	
	138 Freon TF	101	1.921	1.921	(0.459)	132749	50.0000	47.58	
	147 Methylcyclohexane	55	5.381	5.381	(1.083)	397193	50.0000	47.35	
	146 Methyl Acetate	43	2.236	2.236	(0.534)	94144	50.0000	39.62	
	148 Tert-Butyl alcohol	59	2.431	2.431	(0.581)	310637	1000.00	753.57	
	149 Isopropyl Alcohol	45	2.097	2.097	(0.501)	170983	1000.00	751.46	

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\voa6.i\X230628.b\X062830.D
Date : 28-JUN-2023 21:45
Client ID: CCV-END
Sample Info: CCV-END;CCV-END;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062830.D
Inj Date : 28-JUN-2023 21:45
InstruID : voa6.i
LabSampID : CCV-END

Chloroprene (126-99-8)

Reason Code:

BEFORE

MASS
53
AREA
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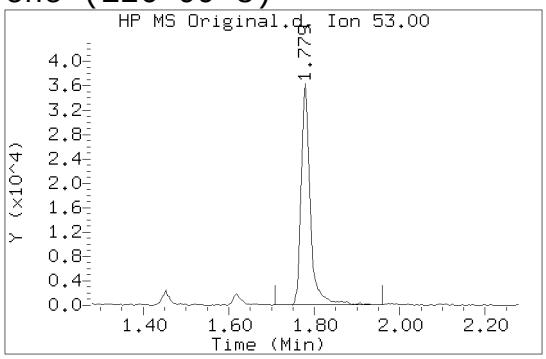
HEIGHT
36216
06-Jul-2023
12:06
linh
pham



AFTER

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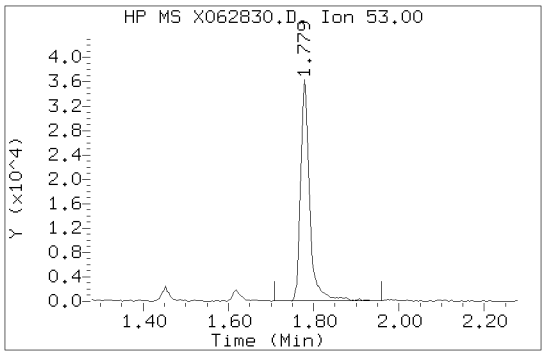

BEFORE

MASS
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06-Jul-2023
12:06
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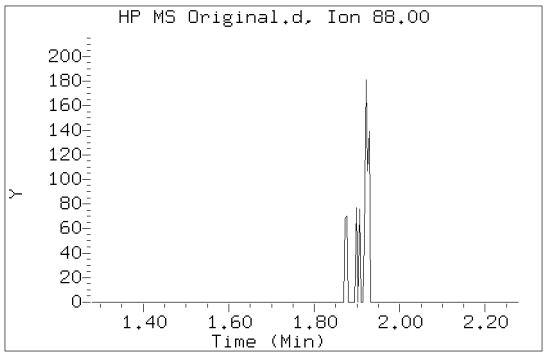

AFTER

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12:06
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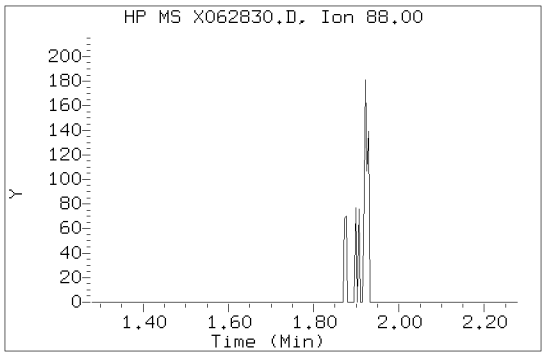


01201700

right solutions.
right partner.

Raw Data VOA9 437296

Volatiles by EPA 8260

Workorder

HS23061712

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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\U230606.b\U060601.D Page 1
Report Date: 06-Jun-2023 11:16

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060601.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 06-JUN-2023 10:53
Operator : PC Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230606.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: NAHSTW7051

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	
9.197	9.180	(0.000)	95	136448			0.00- 100.00	100.00
9.197	9.180	(0.000)	50	25960			15.00- 40.00	19.03
9.197	9.180	(0.000)	75	63728			30.00- 60.00	46.70
9.197	9.180	(0.000)	96	9360			5.00- 9.00	6.86
9.197	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.197	9.180	(0.000)	174	125696			50.00- 0.00	92.12
9.197	9.180	(0.000)	175	10925			5.00- 9.00	8.69
9.197	9.180	(0.000)	176	121928			95.00- 101.00	97.00
9.197	9.180	(0.000)	177	8371			5.00- 9.00	6.87

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.03
75	30.00 - 60.00% of mass 95	46.70
96	5.00 - 9.00% of mass 95	6.86
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	92.12
175	5.00 - 9.00% of mass 174	8.01 (8.69)
176	95.00 - 101.00% of mass 174	89.36 (97.00)
177	5.00 - 9.00% of mass 176	6.13 (6.87)

Data File: U060601.D
Spectrum: Scan 2294 (9.19)
Location of Maximum: 95.00
Number of points: 183

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1606	78.90	3626	126.90	173	180.50	63
37.00	7004	79.90	1138	127.90	637	189.70	63
38.00	6056	80.90	3614	128.80	349	190.10	90
39.10	2292	81.90	1010	129.90	611	190.90	76
39.90	605	83.70	86	131.00	267	191.70	102
40.60	238	84.40	139	131.90	136	193.30	85
41.50	249	85.10	99	133.00	93	193.80	111
42.40	145	86.00	358	134.00	60	194.90	61
43.10	257	86.90	5506	134.90	188	195.70	59
43.90	1550	87.90	5724	135.50	114	199.00	61
45.00	1049	89.70	70	136.10	156	201.00	76
46.20	308	90.90	483	137.00	446	204.10	65
47.00	2170	92.00	3718	138.70	149	206.80	96
47.80	1172	93.00	5572	139.60	225	214.00	57
49.00	5597	94.00	17248	140.80	1519	215.30	57
50.00	25960	95.00	136448	141.80	216	217.30	81
51.00	8122	96.00	9360	142.90	1809	219.80	80
52.10	549	97.00	242	143.90	185	221.90	82
53.20	314	98.10	120	144.90	427	226.10	60
53.90	188	99.50	83	145.90	283	227.70	56
54.20	214	100.10	128	146.90	135	233.00	105
54.80	516	101.30	73	147.90	335	241.30	67
56.00	2033	102.80	171	148.90	169	243.30	72
57.00	3459	103.90	720	149.80	365	244.40	79
57.90	375	104.80	244	151.80	188	246.00	69
59.00	221	105.80	554	152.60	215	247.20	66
60.00	1229	107.10	182	153.80	221	253.10	56
61.00	6314	107.60	97	154.80	409	258.80	62
62.00	6603	108.20	76	155.90	107	264.10	94
63.00	5015	109.70	198	157.00	385	264.50	57
64.00	798	111.00	182	158.70	185	265.40	67
64.90	849	111.60	225	160.20	116	278.00	50
65.80	161	112.70	159	161.10	194	283.30	85
66.80	415	113.00	170	161.60	65	284.10	92
68.00	14015	114.80	234	166.70	55	286.60	57
69.00	13768	115.90	673	168.00	87	287.60	52
70.00	1246	116.90	876	169.10	89	295.90	52
70.80	262	117.80	546	169.60	59	300.90	71
71.30	260	118.80	825	170.30	103	302.50	52
72.10	826	119.90	99	171.00	262	320.40	86
73.00	6098	120.40	70	172.00	1169	328.50	66
74.00	20912	121.70	115	173.90	125696	330.30	64
75.00	63728	122.50	79	175.00	10925	339.30	78
76.00	6105	123.50	138	175.90	121928	346.10	69
76.90	843	124.80	115	176.90	8371	349.50	59

77.90	770	125.60	102	177.90	233		

Data File: \\nahstws005\target\chem\voa9.i\u230606.b\u060601.d Page 1

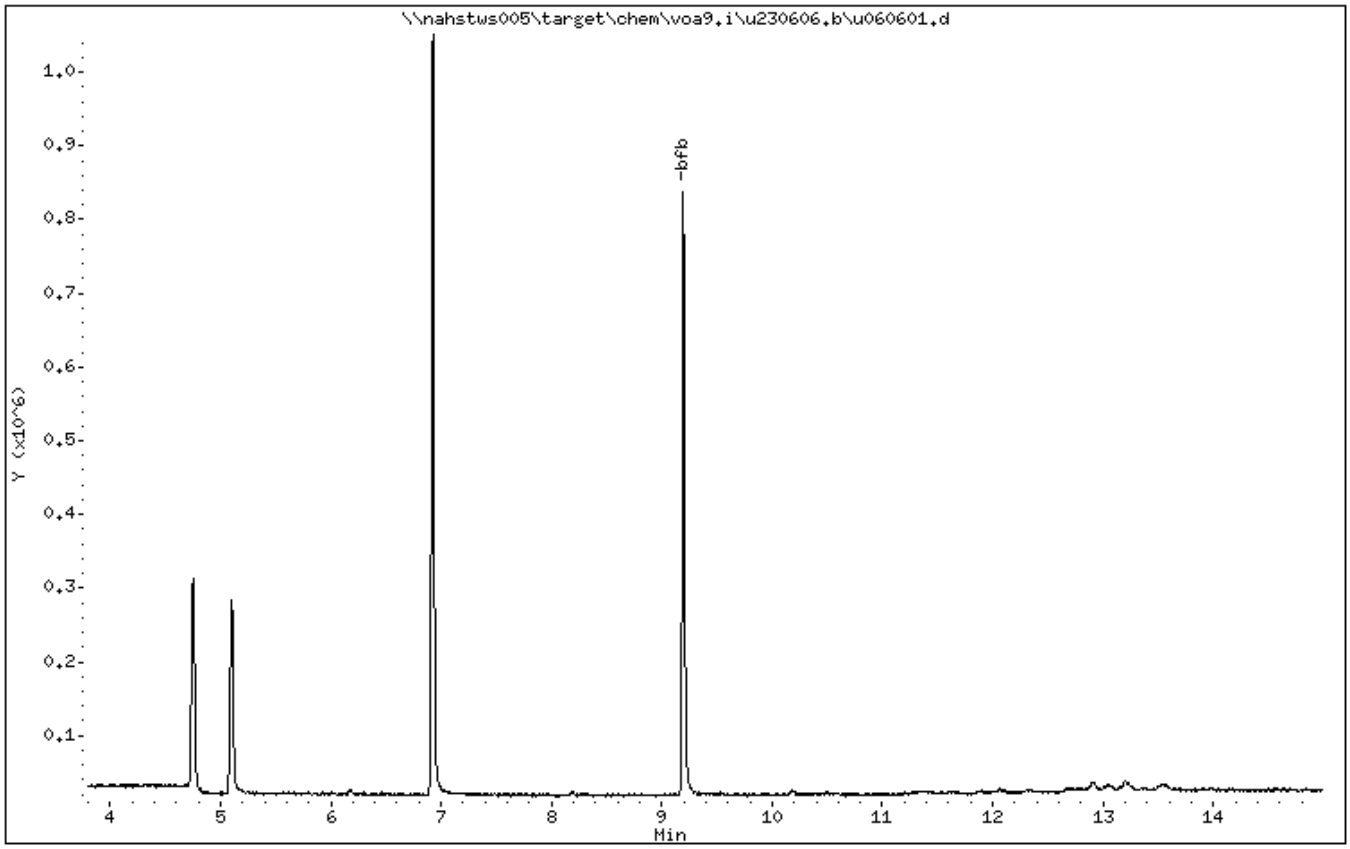
Date : 06-JUN-2023 10:53

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



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Inj Date : 06-JUN-2023 10:53
InstruID : VOA9.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060602.D
Lab Smp Id: VSTD000.25 Client Smp ID: VSTD000.25
Inj Date : 06-JUN-2023 11:15
Operator : PC Inst ID: VOA9.i
Smp Info : VSTD000.25;VSTD000.25;1;1;
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
Meth Date : 13-Jun-2023 13:00 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 13:50 Cal File: U060608.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

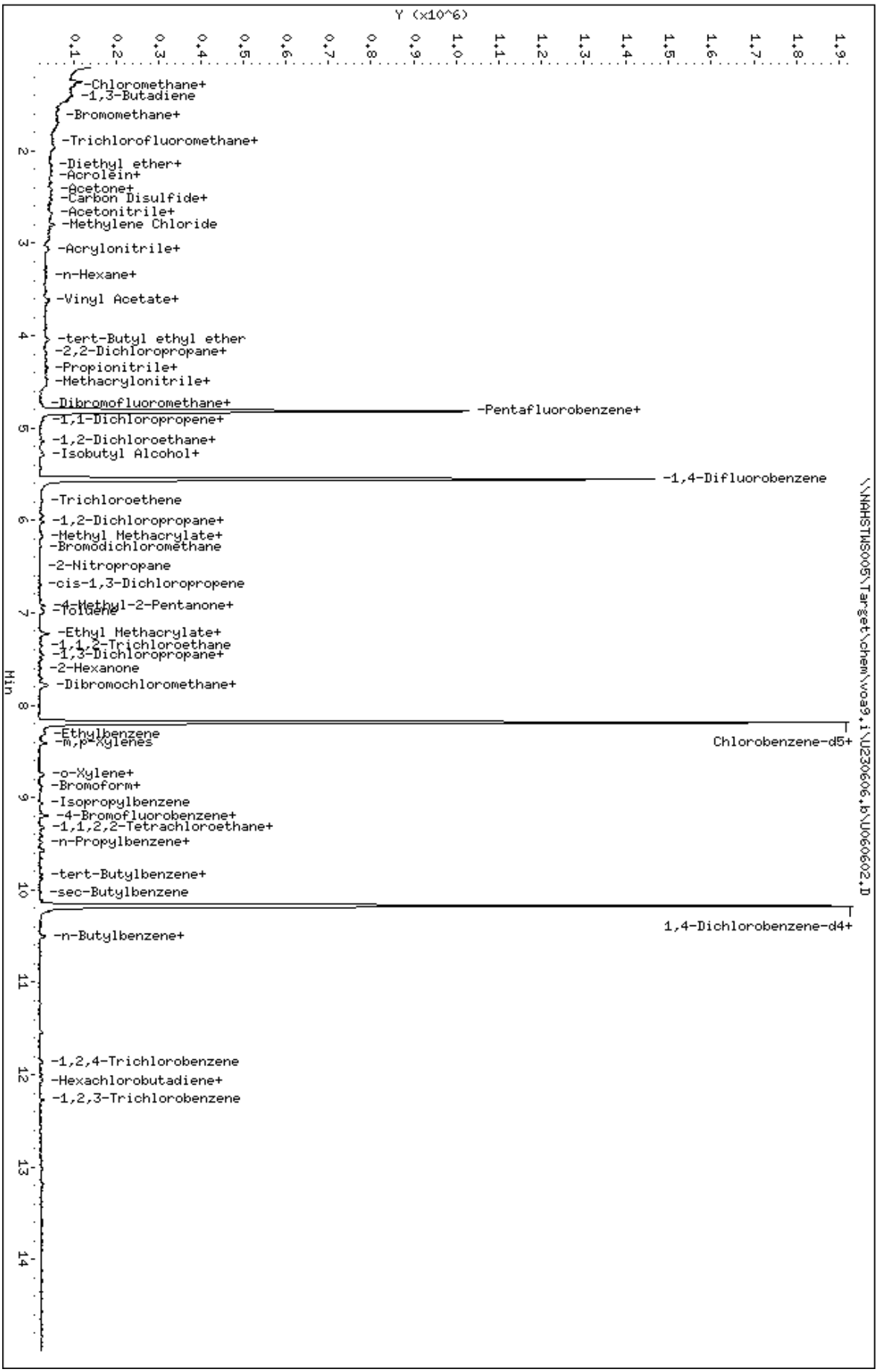
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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)	758075	50.0000	
	15 Iodomethane	142	2.476	2.476	(0.514)	1709	0.50000	10.21(T)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	2648	0.25000	0.73(a)
$	30 Dibromofluoromethane	113	4.751	4.751	(0.987)	2358	0.25000	0.05(a)
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.059)	2464	0.25000	(a)
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	1141877	50.0000	
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	2552	0.25000	2.12(a)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	1042568	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	9480	0.25000	0.40(a)
	51 trans-1,3-Dichloropropene	75	7.207	7.207	(1.298)	1508	0.25000	2.17(a)
	58 1-Chlorohexane	55	8.185	8.185	(1.474)	10231	0.25000	1.74(a)
$	69 4-Bromofluorobenzene	95	9.197	9.197	(1.124)	6043	0.25000	(a)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	519246	50.0000	
M	94 1,2-Dichloroethylene (total)	96				4023	0.50000	(a)
	141 Cyclohexane	56	4.815	4.815	(1.000)	12882	0.25000	1.60(a)
	140 1,3-Butadiene	54	1.404	1.404	(0.292)	1956	0.25000	0.27(a)
	145 alpha-Methylstyrene	118	9.760	9.760	(0.959)	2265	0.25000	3.75(a)
	162 Butyl acrylate	55	8.736	8.736	(1.067)	4785	0.25000	0.38(a)
	203 2-Ethylhexyl Acrylate	55	12.046	12.046	(1.184)	2128	0.25000	2.17(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa9,i\U230606,b\U060602.D
Date : 06-JUN-2023 11:15
Client ID: VSTD000.25
Sample Info: WSTD000,25;VSTD000,25;1;1;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060602.D
Inj Date : 06-JUN-2023 11:15
InstruID : VOA9.i
LabSampID : VSTD000.25

Bromodichloromethane (75-27-4)

Reason Code:

BEFORE
MASS
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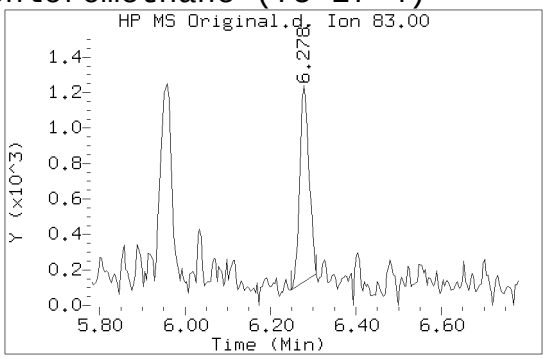
AREA
1696
HEIGHT
1106
08-Jun-2023
14:56
linh
pham



AFTER
MASS
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AREA
1696
HEIGHT
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13-Jun-2023
13:00
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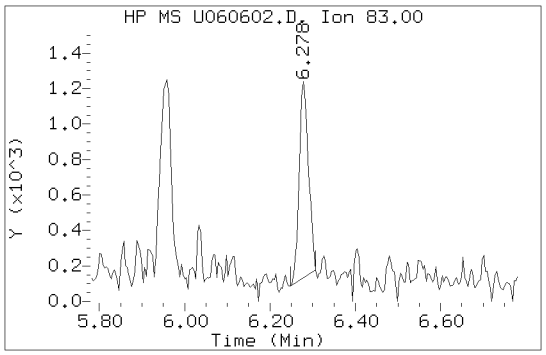
pham



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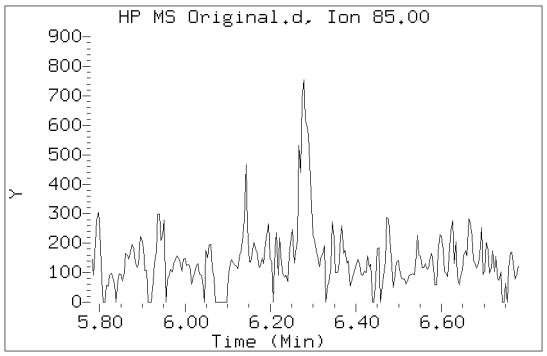

AFTER
MASS
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AREA
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HEIGHT
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13-Jun-2023
13:00
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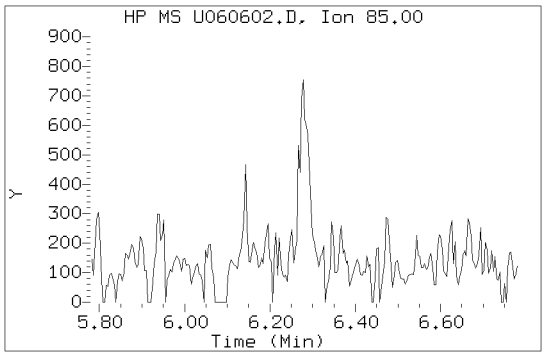
pham



BEFORE
MASS
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HEIGHT
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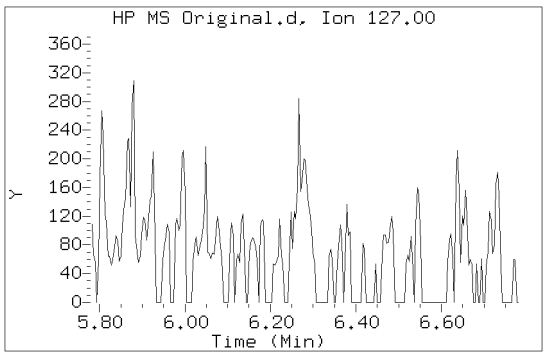
08-Jun-2023
14:56
linh
pham



AFTER
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HEIGHT
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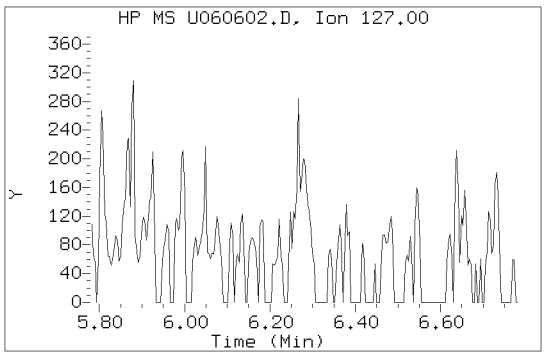
13-Jun-2023
13:00
linh
pham



1,4-Dioxane ()

Reason Code:

BEFORE
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AREA
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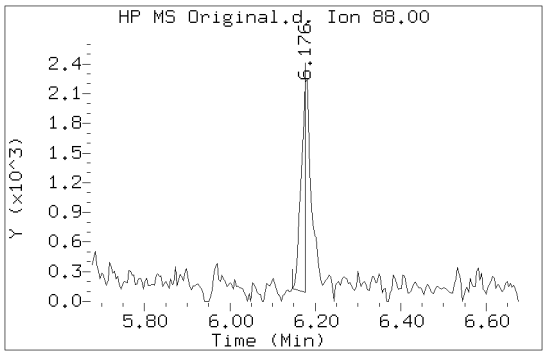
HEIGHT
2126
08-Jun-2023
14:56
linh
pham



AFTER
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13-Jun-2023
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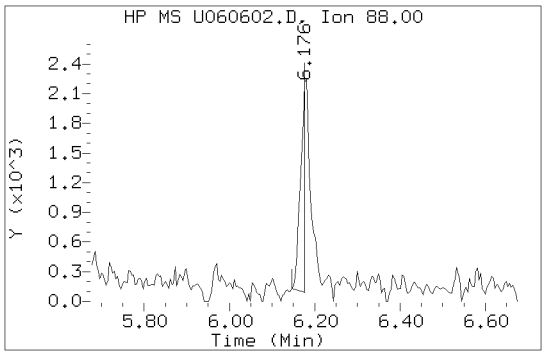

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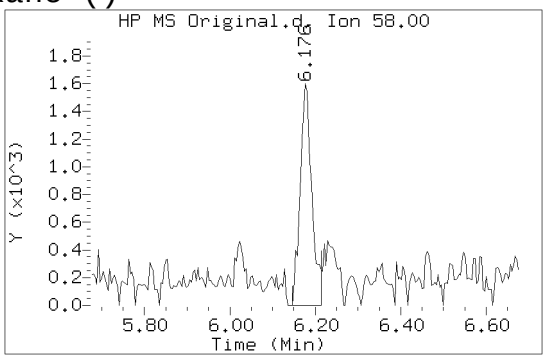
Inj Date : 06-JUN-2023 11:15
InstruID : VOA9.i
LabSampID : VSTD000.25

1,4-Dioxane ()

Reason Code:

BEFORE

MASS
58
AREA
3075
HEIGHT
1600
08-Jun-2023
14:56
linh
pham



AFTER

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13-Jun-2023
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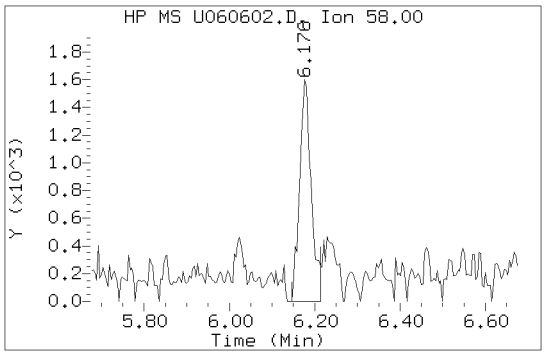


Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060603.D Page 1
Report Date: 21-Jun-2023 13:47

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060603.D
Lab Smp Id: VSTD000.5 Client Smp ID: VSTD000.5
Inj Date : 06-JUN-2023 11:37
Operator : PC Inst ID: VOA9.i
Smp Info : VSTD000.5;VSTD000.5;1;2;
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
Meth Date : 21-Jun-2023 13:45 pcabasca Quant Type: ISTD
Cal Date : 06-JUN-2023 11:37 Cal File: U060603.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14

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

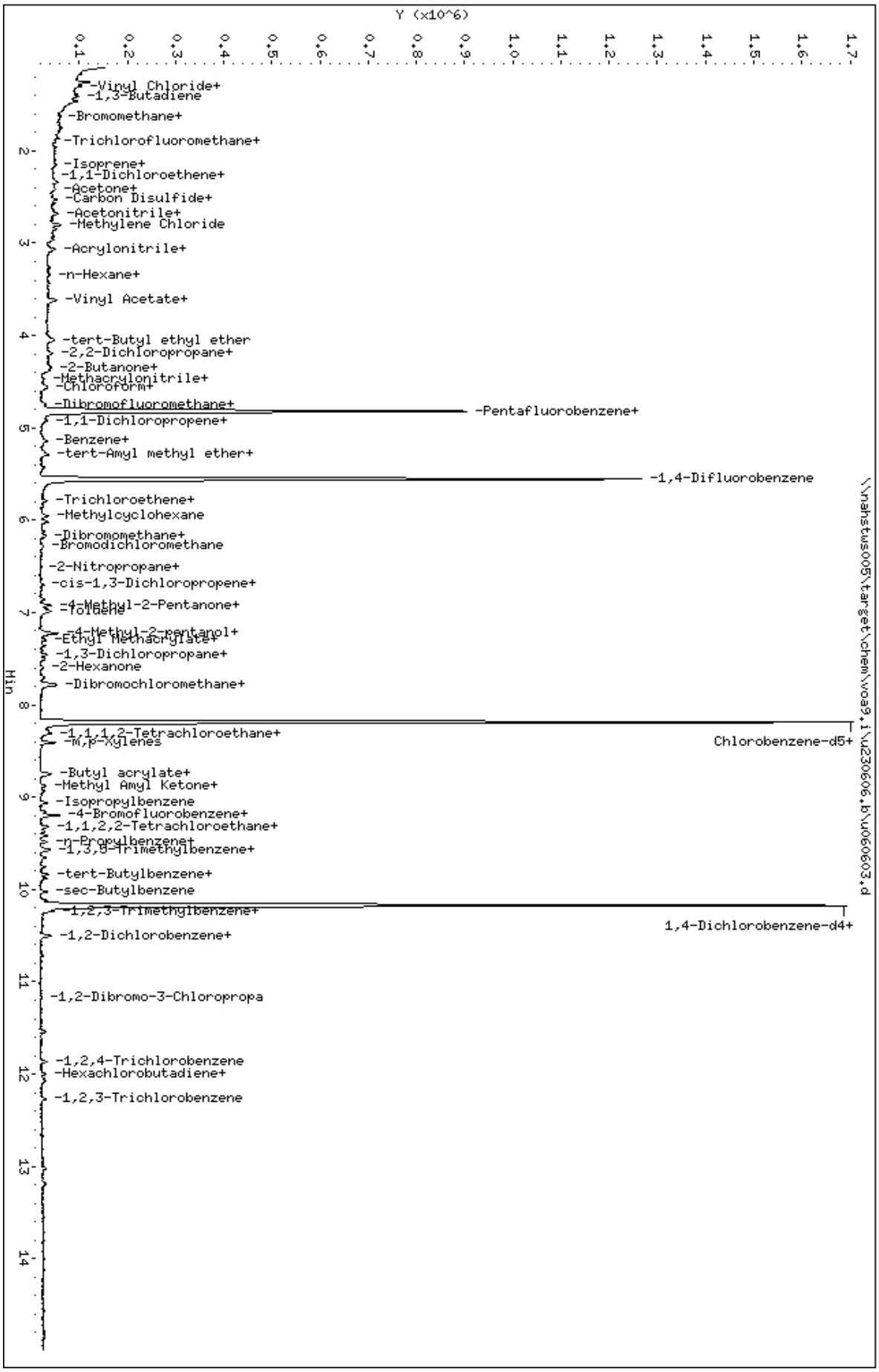
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.819	4.819	(1.000)	671879	50.0000	
	2 Dichlorodifluoromethane	85	1.168	1.168	(0.242)	3237	0.50000	0.60(a)
	5 Vinyl Chloride	62	1.381	1.381	(0.287)	3572	0.50000	0.50(a)
	7 Chloroethane	64	1.704	1.704	(0.354)	2580	0.50000	0.53(aM)
	15 Iodomethane	142	2.480	2.480	(0.515)	1872	1.00000	10.30(T)
	19 Carbon Disulfide	76	2.525	2.525	(0.524)	13120	1.00000	0.96(a)
	20 trans-1,2-Dichloroethene	96	3.065	3.065	(0.636)	2954	0.50000	0.53(a)
	22 1,1-Dichloroethane	63	3.518	3.518	(0.730)	6153	0.50000	0.58(a)
	24 2-Butanone	43	4.272	4.272	(0.886)	3610	1.00000	1.17(aM)
	26 2,2-Dichloropropane	77	4.193	4.193	(0.870)	3685	0.50000	0.92(a)
	29 Bromochloromethane	128	4.470	4.470	(0.928)	2104	0.50000	0.56(a)
$	30 Dibromofluoromethane	113	4.751	4.751	(0.986)	3644	0.50000	0.33(aM)
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	4434	0.50000	0.53(aM)
$	35 1,2-Dichloroethane-d4	65	5.104	5.104	(1.059)	3795	0.50000	(aM)
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	991670	50.0000	
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	4533	0.50000	2.34(aM)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	921846	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	14408	0.50000	0.69(aM)
	50 Toluene	91	6.986	6.986	(0.853)	13471	0.50000	0.53(aM)
	51 trans-1,3-Dichloropropene	75	7.203	7.203	(1.297)	4073	0.50000	2.48(aM)
	54 1,3-Dichloropropane	76	7.503	7.503	(0.917)	5569	0.50000	0.52(a)

57 1,2-Dibromoethane	107	7.792	7.792 (0.952)	3622	0.50000	0.56(aM)
58 1-Chlorohexane	55	8.200	8.200 (1.477)	2785	0.50000	0.54(aM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	59 Chlorobenzene	112	8.208	8.208	(1.003)	8858	0.50000	0.49(a)
	60 1,1,1,2-Tetrachloroethane	131	8.286	8.286	(1.012)	3117	0.50000	0.50(a)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	9164	1.00000	0.93(aM)
	68 1,1,2,2-Tetrachloroethane	83	9.332	9.332	(0.917)	4333	0.50000	0.50(aM)
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	5007	0.50000	(aM)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	456421	50.0000	
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	6595	0.50000	0.50(a)
	93 1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	4090	0.50000	0.46(aM)
M	94 1,2-Dichloroethylene (total)	96				6594	1.00000	1.08(a)
	141 Cyclohexane	56	4.796	4.796	(0.995)	4345	0.50000	0.72(aM)
	138 Freon TF	101	2.341	2.341	(0.486)	2391	0.50000	0.52(aM)
	140 1,3-Butadiene	54	1.408	1.408	(0.292)	2958	0.50000	0.46(a)
	13 Acetonitrile	39	2.678	2.678	(0.556)	4044	5.00000	5.55(a)
	40 Methyl Methacrylate	41	6.165	6.165	(1.279)	3083	0.50000	0.53(aM)
	4 Propionitrile	54	4.347	4.347	(0.902)	5579	5.00000	5.74(aM)
	136 n-Hexane	57	3.353	3.353	(0.696)	2983	0.50000	0.65(a)
	200 Dimethyl Disulfide	94	6.746	6.746	(0.824)	1341	0.50000	4.71(aM)
	166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	9904	0.50000	0.56(a)
	145 alpha-Methylstyrene	118	9.756	9.756	(0.959)	3201	0.50000	3.88(a)
	156 Diisopropyl ether	45	3.627	3.627	(0.753)	10933	0.50000	0.58(a)
	151 4-Methyl-2-pentanol	45	7.226	7.226	(1.301)	20153	10.0000	13.66
	150 Allyl alcohol	57	3.353	3.353	(0.696)	2691	10.0000	12.72(M)
	86 Benzyl Chloride	91	10.315	10.315	(1.260)	1867	0.50000	3.78(aM)
	162 Butyl acrylate	55	8.740	8.740	(1.068)	6005	0.50000	0.55(a)
	139 Diethyl ether	59	2.150	2.150	(0.446)	2812	0.50000	0.61(aM)
	203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	2309	0.50000	2.27(a)
	130 Ethyl Acetate	43	4.272	4.272	(0.886)	3781	0.50000	0.62(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Sample Info: VSTD000.5;VSTD000.5;1;2;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: PC
Column diameter: 0.18

Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Chloromethane (74-87-3)

BEFORE
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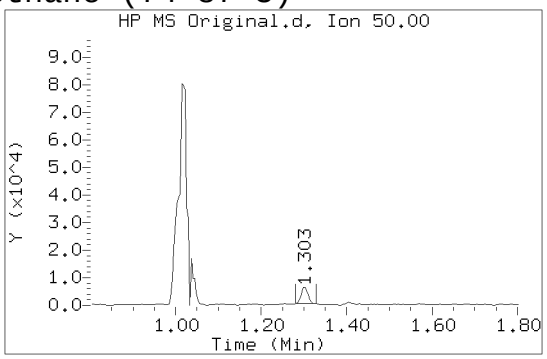
HEIGHT
5876
08-Jun-2023
14:56
linh
pham



AFTER
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21-Jun-2023
13:47
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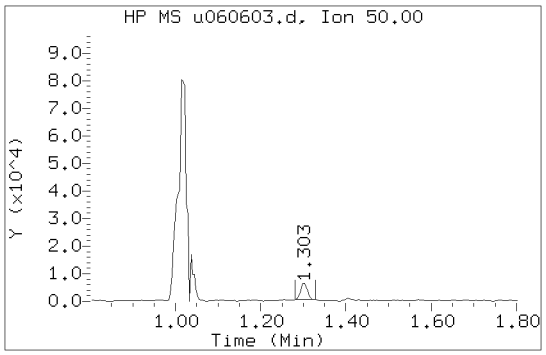
pha

Reason Code:



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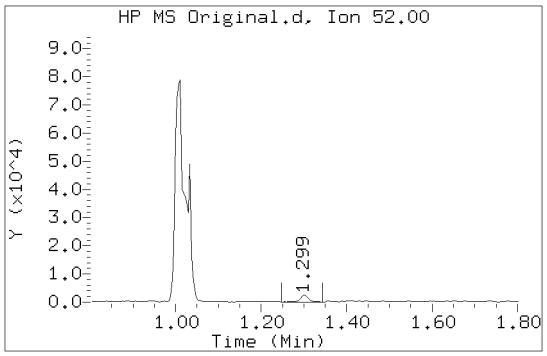

AFTER
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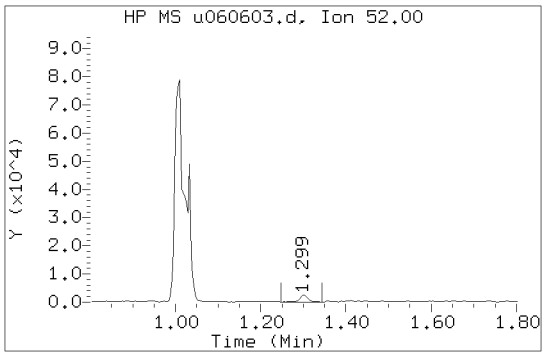

Bromomethane (74-83-9)

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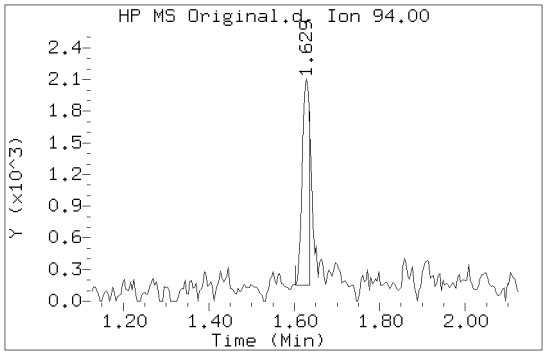

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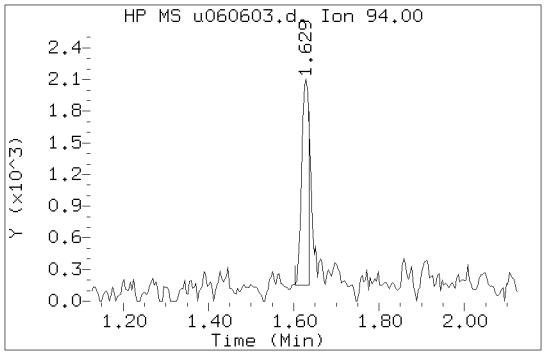
pha

Reason Code:



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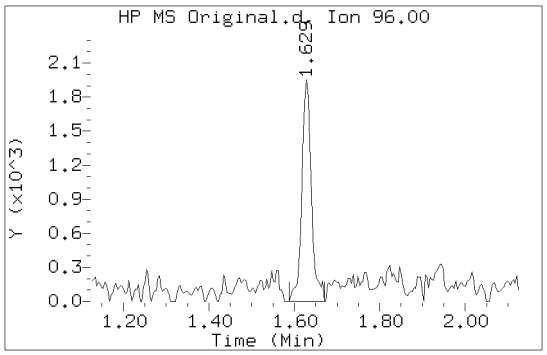

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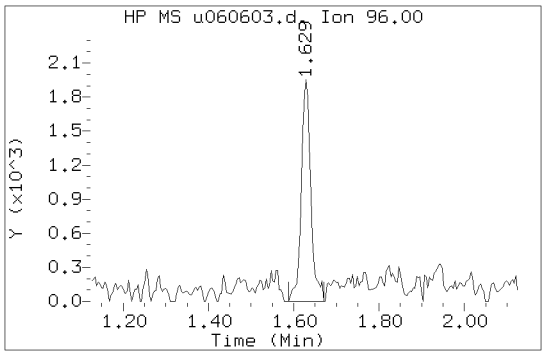

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Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Chloroethane (75-00-3)

Reason Code:

BEFORE
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AREA
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HEIGHT
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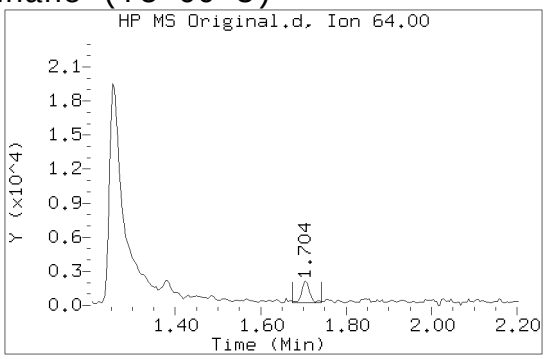
08-Jun-2023
14:56
linh
pham



AFTER
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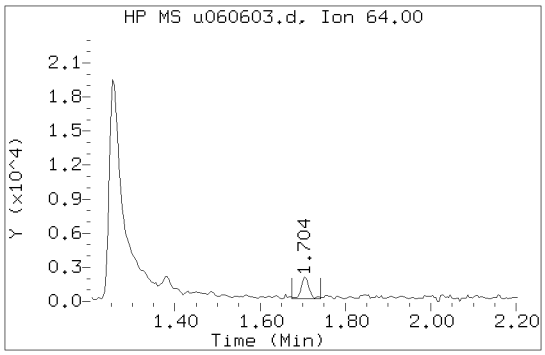

BEFORE
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08-Jun-2023
14:56
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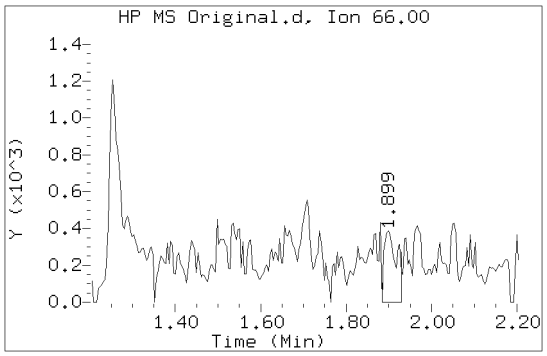

AFTER
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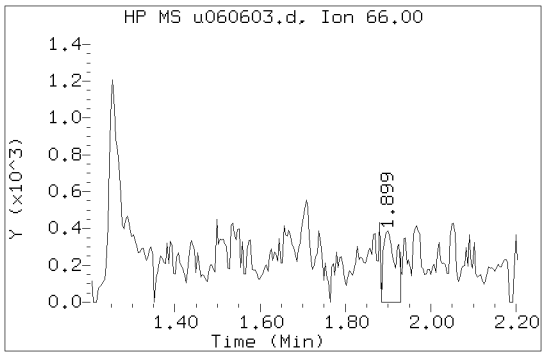

Acrolein (107-02-8)

Reason Code:

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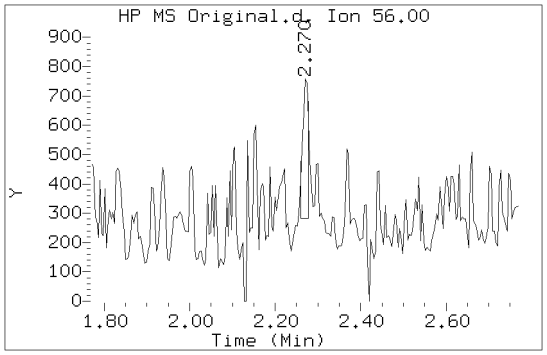

AFTER
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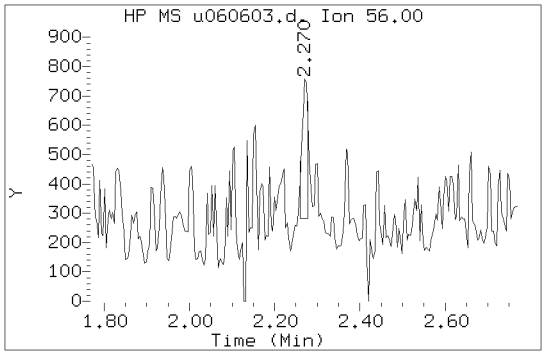

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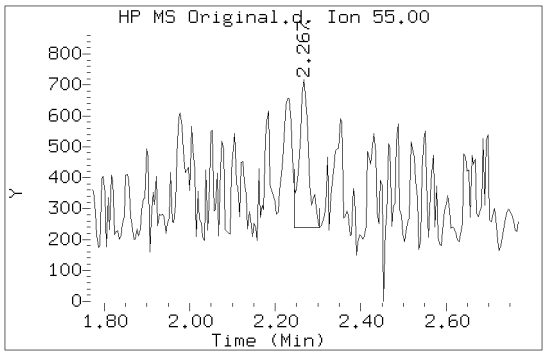

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21-Jun-2023
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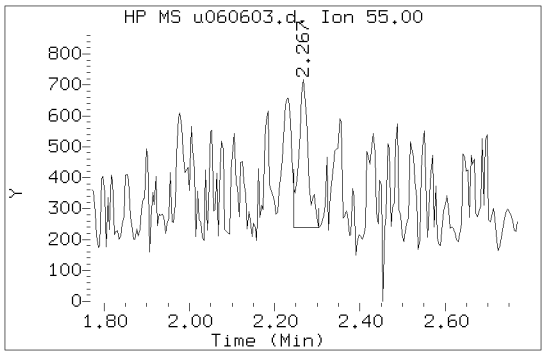

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Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

2-Butanone (78-93-3)

Reason Code:

BEFORE
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2093
08-Jun-2023
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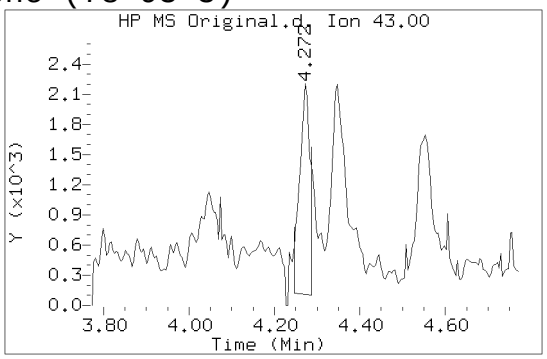
pham



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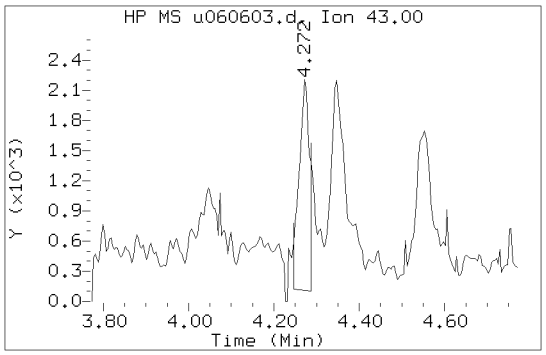

BEFORE
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08-Jun-2023
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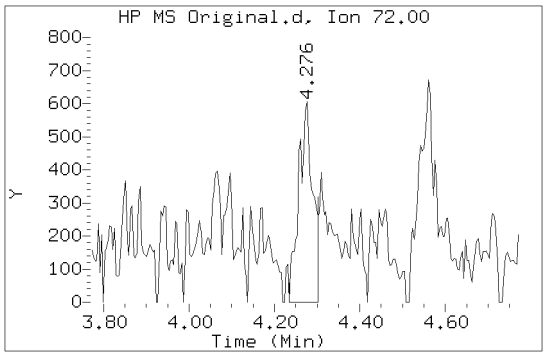

AFTER
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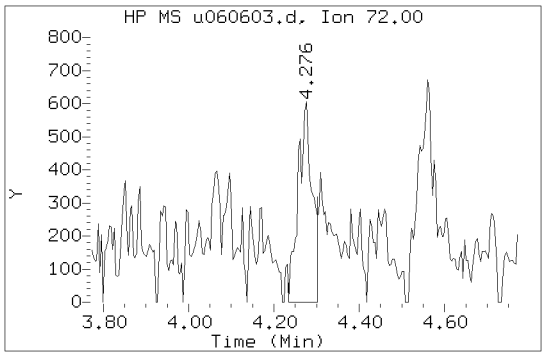

cis-1,2-Dichloroethene (156-59-2)

Reason Code:

BEFORE
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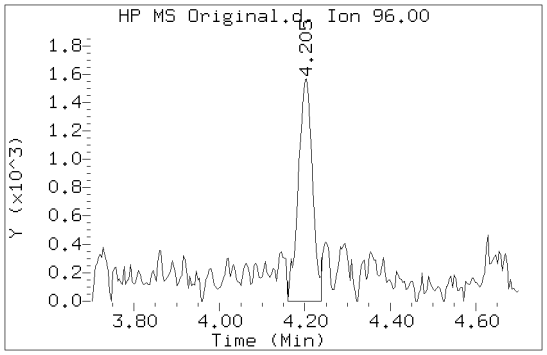
HEIGHT
1571
08-Jun-2023
14:56
linh
pham



AFTER
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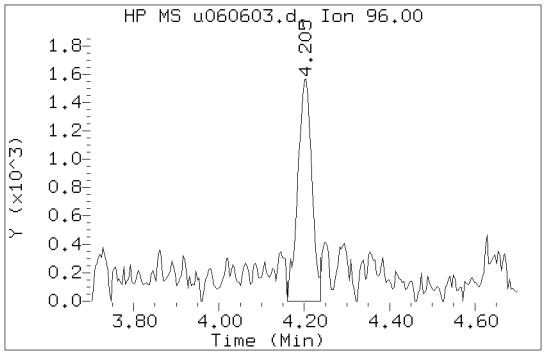

BEFORE
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08-Jun-2023
14:56
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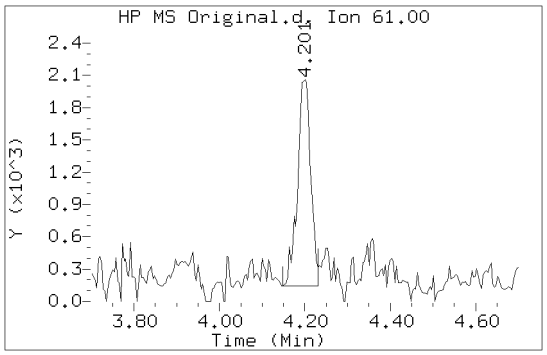

AFTER
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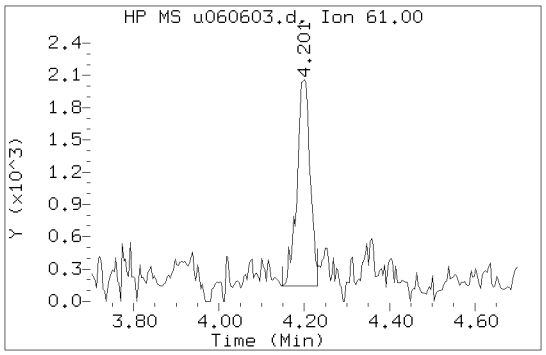

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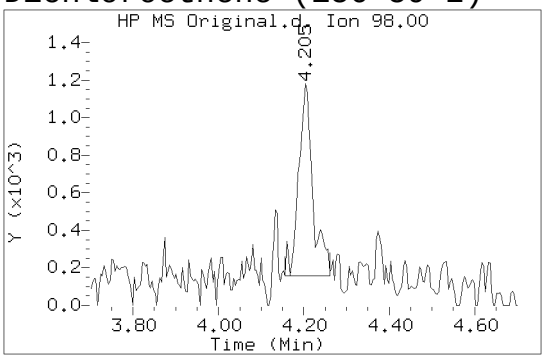
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

cis-1,2-Dichloroethene (156-59-2)

Reason Code:

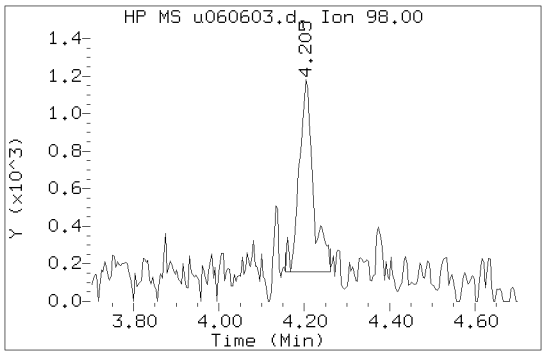
BEFORE

MASS
98
AREA
2375
HEIGHT
1023
08-Jun-2023
14:56
linh
pham



AFTER

MASS
98
AREA
2375
HEIGHT
1023
21-Jun-2023
13:47
linh
pha

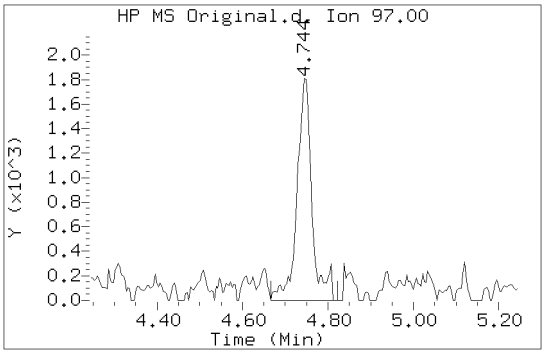


1,1,1-Trichloroethane (71-55-6)

Reason Code:

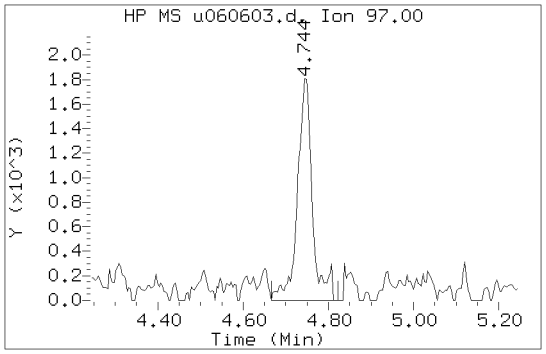
BEFORE

MASS
97
AREA
4434
HEIGHT
1807
08-Jun-2023
14:56
linh
pham



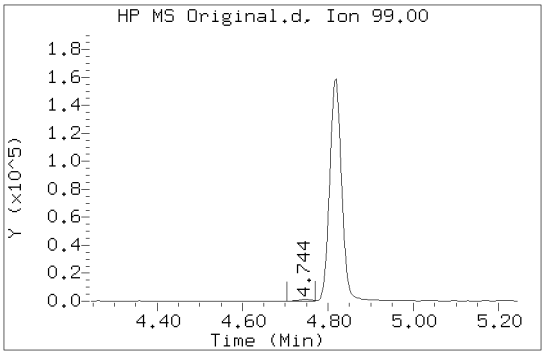
AFTER

MASS
97
AREA
4434
HEIGHT
1807
21-Jun-2023
13:47
linh
pha



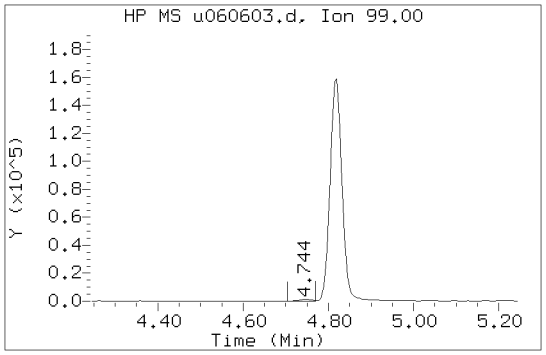
BEFORE

MASS
99
AREA
2413
HEIGHT
1165
08-Jun-2023
14:56
linh
pham



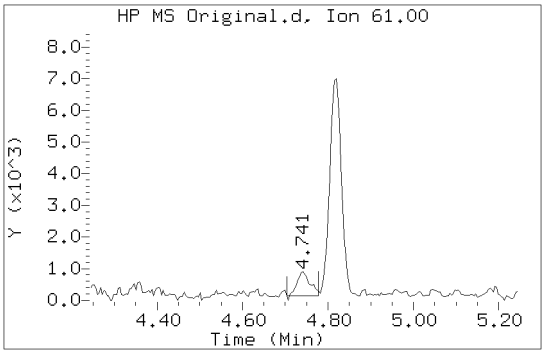
AFTER

MASS
99
AREA
2413
HEIGHT
1165
21-Jun-2023
13:47
linh
pha



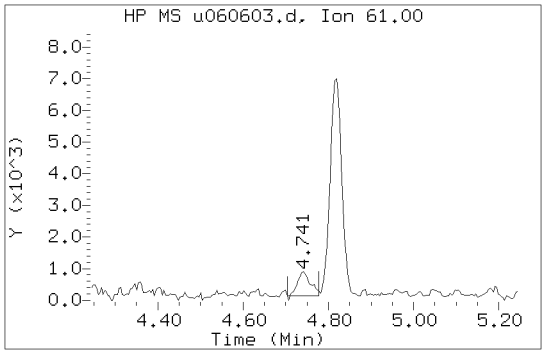
BEFORE

MASS
61
AREA
1649
HEIGHT
774
08-Jun-2023
14:56
linh
pham



AFTER

MASS
61
AREA
1649
HEIGHT
774
21-Jun-2023
13:47
linh
pha



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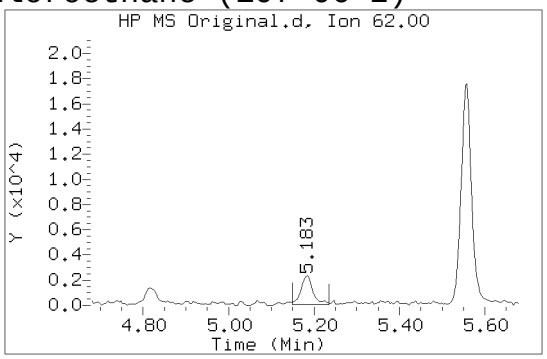
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

1,2-Dichloroethane (107-06-2)

Reason Code:

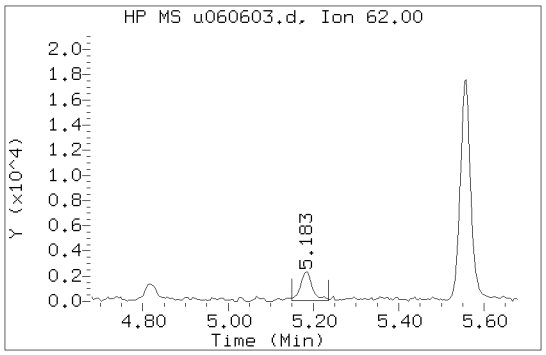
BEFORE

MASS
62
AREA
4646
HEIGHT
2294
08-Jun-2023
14:56
linh
pham



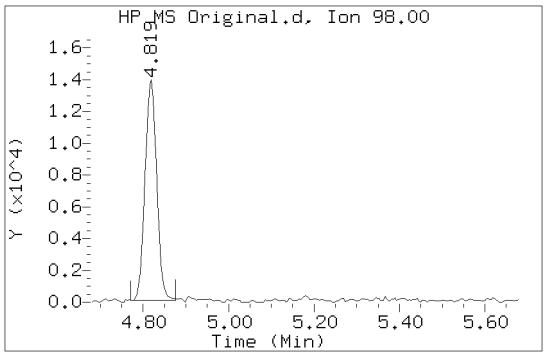
AFTER

MASS
62
AREA
4646
HEIGHT
2294
21-Jun-2023
13:47
linh
pha



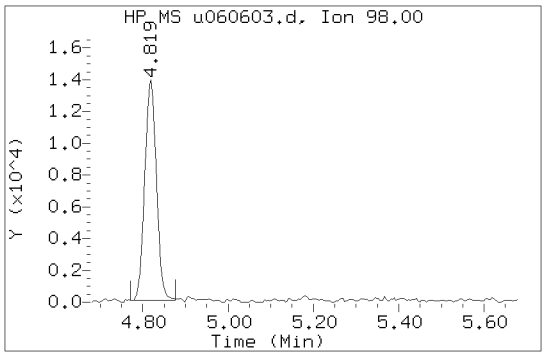
BEFORE

MASS
98
AREA
26343
HEIGHT
13869
08-Jun-2023
14:56
linh
pham



AFTER

MASS
98
AREA
26343
HEIGHT
13869
21-Jun-2023
13:47
linh
pha

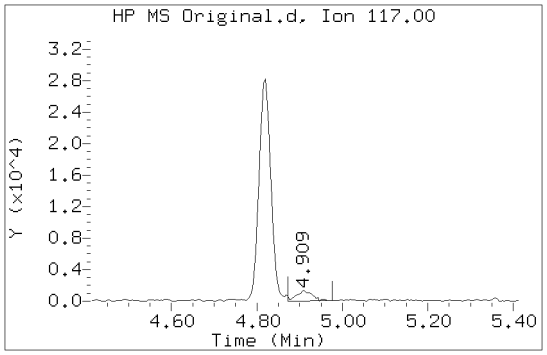


Carbon Tetrachloride (56-23-5)

Reason Code:

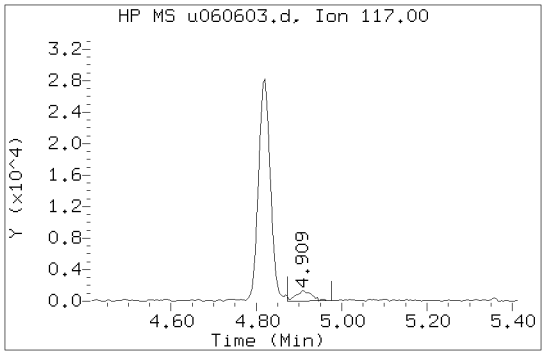
BEFORE

MASS
117
AREA
3518
HEIGHT
1311
08-Jun-2023
14:56
linh
pham



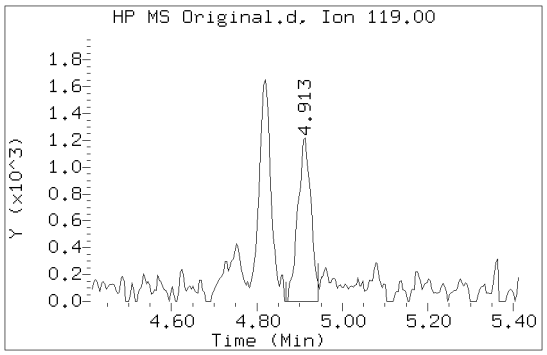
AFTER

MASS
117
AREA
3518
HEIGHT
1311
21-Jun-2023
13:47
linh
pha



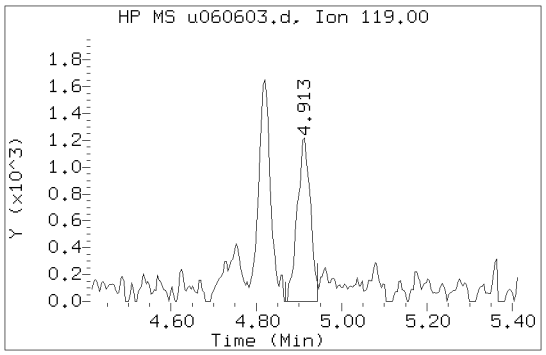
BEFORE

MASS
119
AREA
2642
HEIGHT
1217
08-Jun-2023
14:56
linh
pham



AFTER

MASS
119
AREA
2642
HEIGHT
1217
21-Jun-2023
13:47
linh
pha

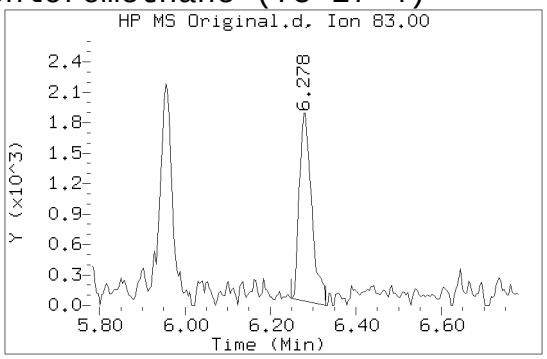


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

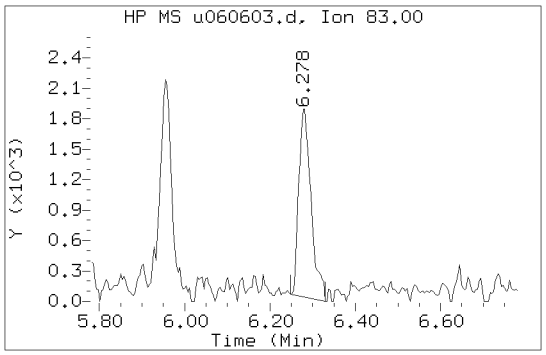
Bromodichloromethane (75-27-4)

Reason Code:

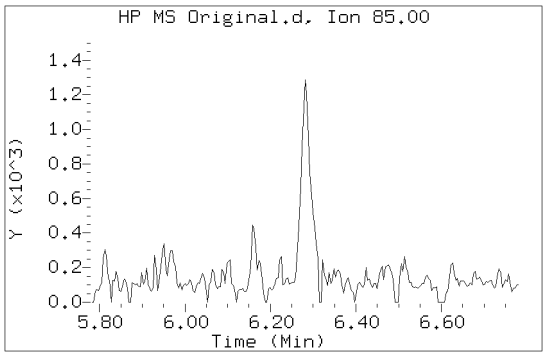
BEFORE
MASS
83
AREA
3797
HEIGHT
1853
08-Jun-2023
14:56
linh
pham



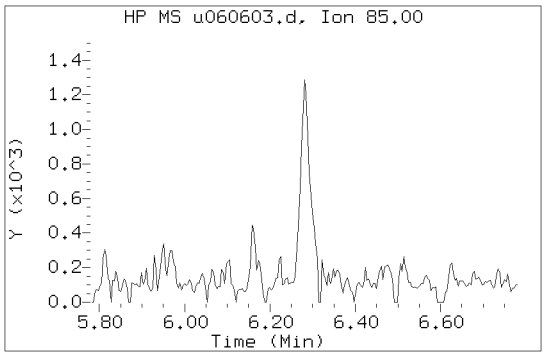
AFTER
MASS
83
AREA
3797
HEIGHT
1853
21-Jun-2023
13:47
linh
pha



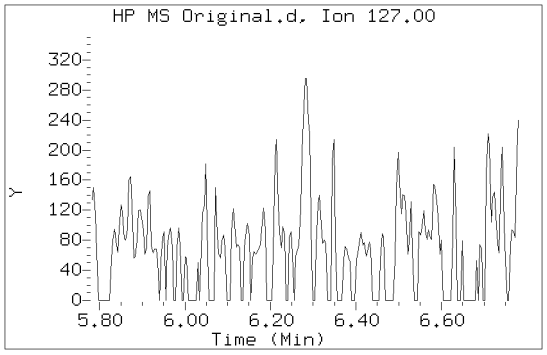
BEFORE
MASS
85
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



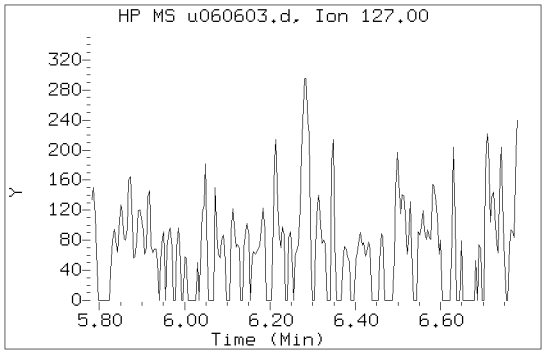
AFTER
MASS
85
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
127
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



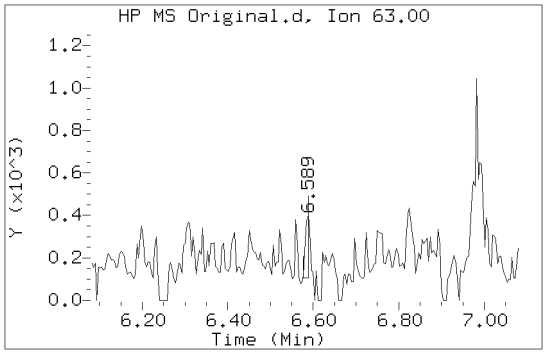
AFTER
MASS
127
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



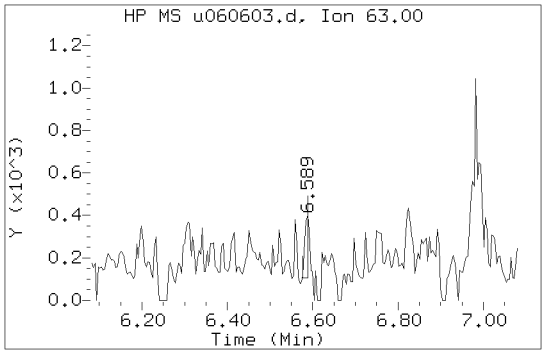
2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE
MASS
63
AREA
169
HEIGHT
296
08-Jun-2023
14:56
linh
pham



AFTER
MASS
63
AREA
169
HEIGHT
296
21-Jun-2023
13:47
linh
pha



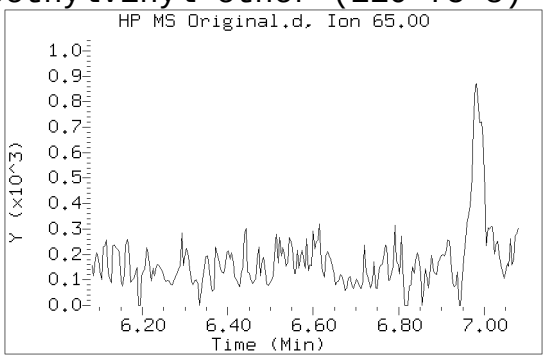
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

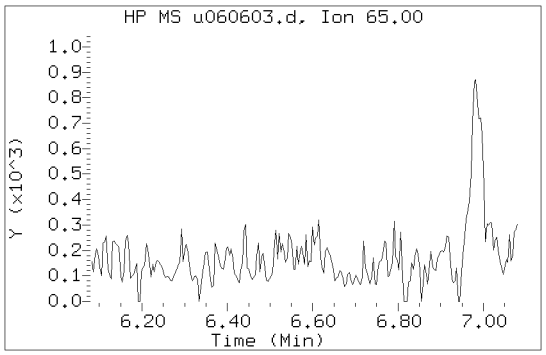
BEFORE

MASS
65
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



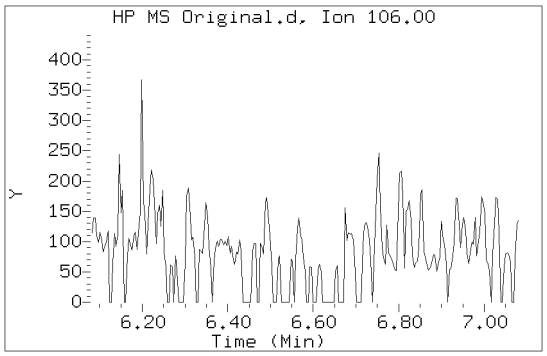
AFTER

MASS
65
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



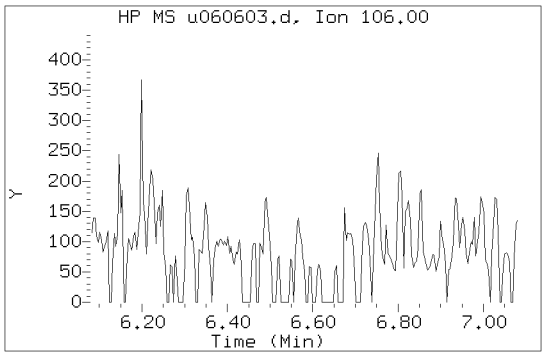
BEFORE

MASS
106
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
106
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

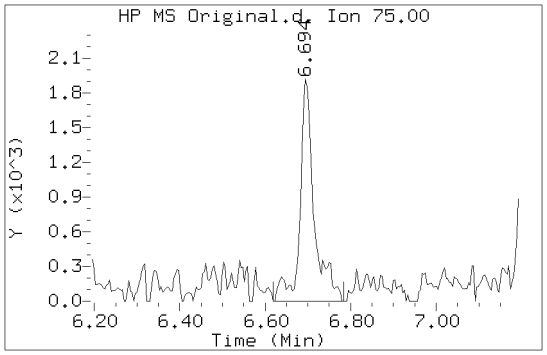


cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

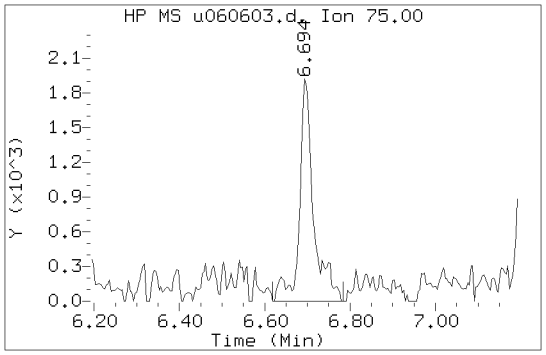
BEFORE

MASS
75
AREA
4533
HEIGHT
1923
08-Jun-2023
14:56
linh
pham



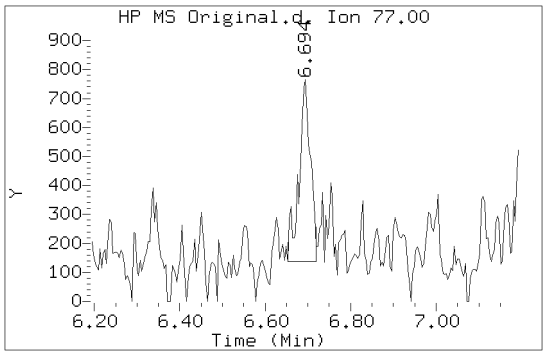
AFTER

MASS
75
AREA
4533
HEIGHT
1923
21-Jun-2023
13:47
linh
pha



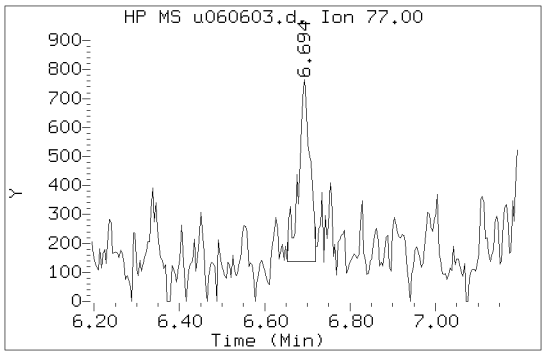
BEFORE

MASS
77
AREA
1180
HEIGHT
628
08-Jun-2023
14:56
linh
pham



AFTER

MASS
77
AREA
1180
HEIGHT
628
21-Jun-2023
13:47
linh
pha

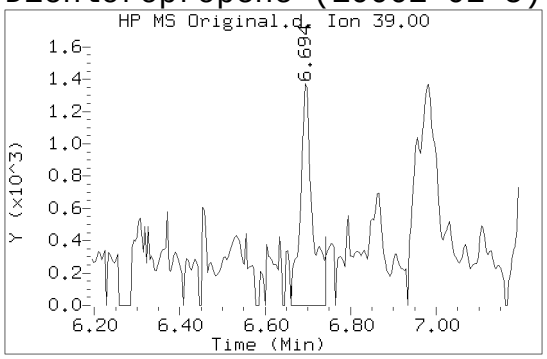


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

cis-1,3-Dichloropropene (10061-01-5)

BEFORE

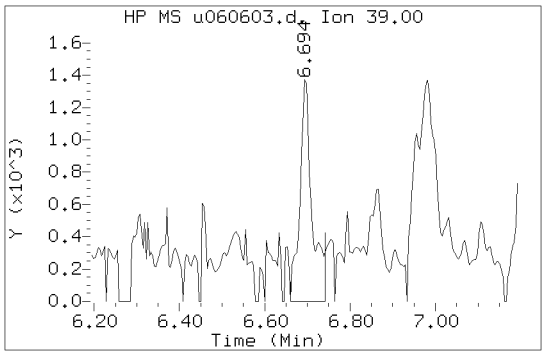
MASS
39
AREA
2809
HEIGHT
1372
08-Jun-2023
14:56
linh
pham



Reason Code:

AFTER

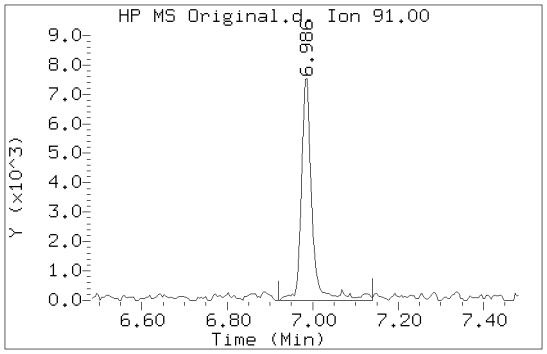
MASS
39
AREA
2809
HEIGHT
1372
21-Jun-2023
13:47
linh
pha



Toluene (108-88-3)

BEFORE

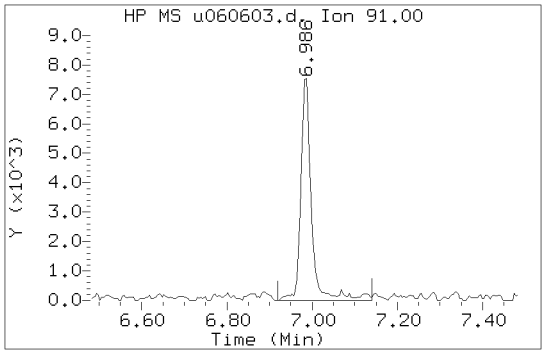
MASS
91
AREA
13471
HEIGHT
7534
08-Jun-2023
14:56
linh
pham



Reason Code:

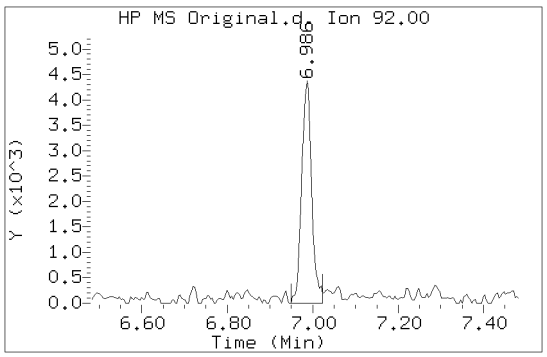
AFTER

MASS
91
AREA
13471
HEIGHT
7534
21-Jun-2023
13:47
linh
pha



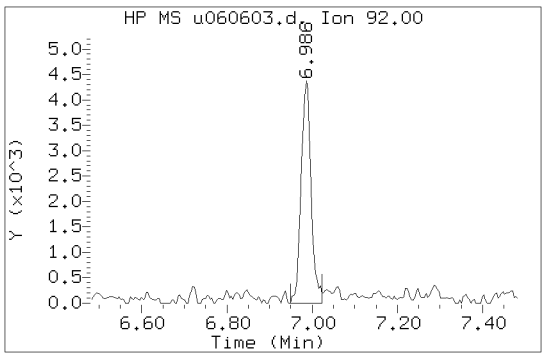
BEFORE

MASS
92
AREA
7328
HEIGHT
4373
08-Jun-2023
14:56
linh
pham



AFTER

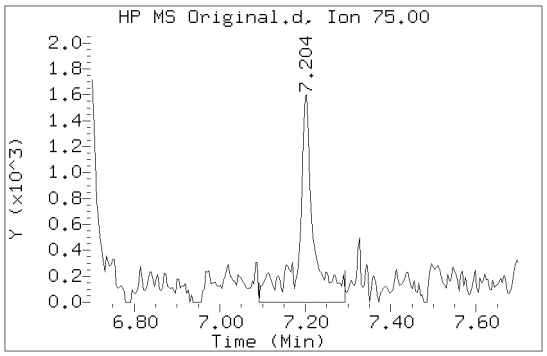
MASS
92
AREA
7328
HEIGHT
4373
21-Jun-2023
13:47
linh
pha



trans-1,3-Dichloropropene (10061-02-6)

BEFORE

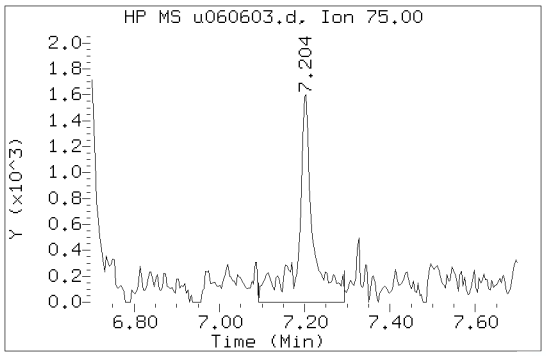
MASS
75
AREA
4073
HEIGHT
1603
08-Jun-2023
14:56
linh
pham



Reason Code:

AFTER

MASS
75
AREA
4073
HEIGHT
1603
21-Jun-2023
13:47
linh
pha



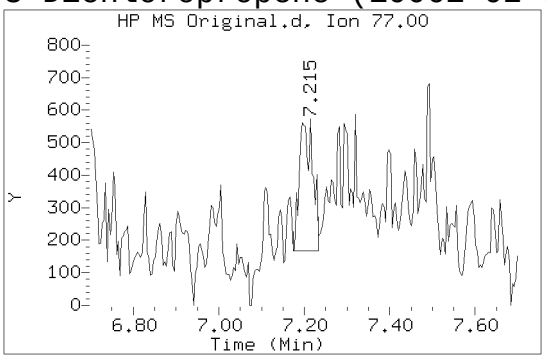
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

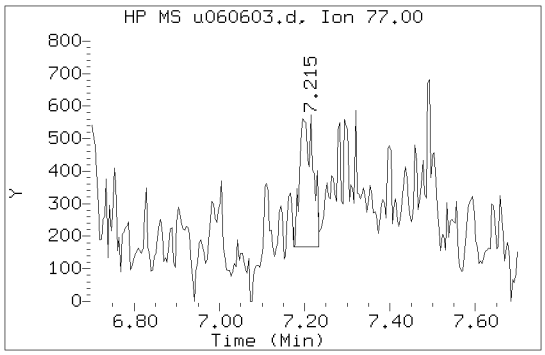
BEFORE

MASS
77
AREA
877
HEIGHT
407
08-Jun-2023
14:56
linh
pham



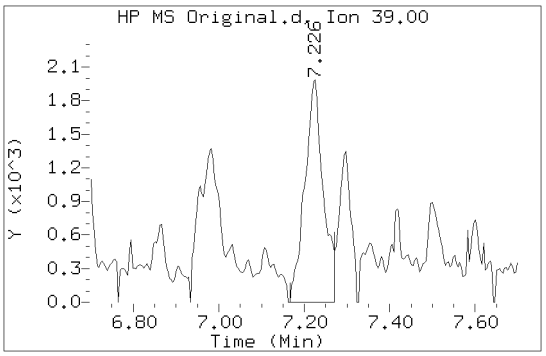
AFTER

MASS
77
AREA
877
HEIGHT
407
21-Jun-2023
13:47
linh
pha



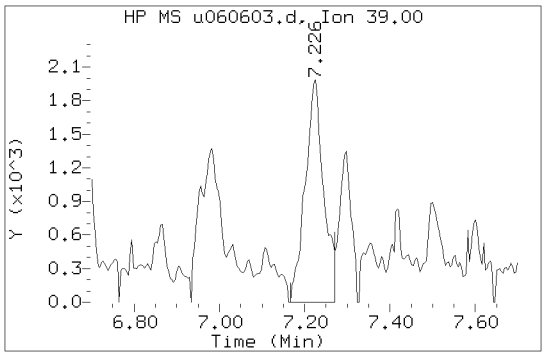
BEFORE

MASS
39
AREA
6017
HEIGHT
1985
08-Jun-2023
14:56
linh
pham



AFTER

MASS
39
AREA
6017
HEIGHT
1985
21-Jun-2023
13:47
linh
pha

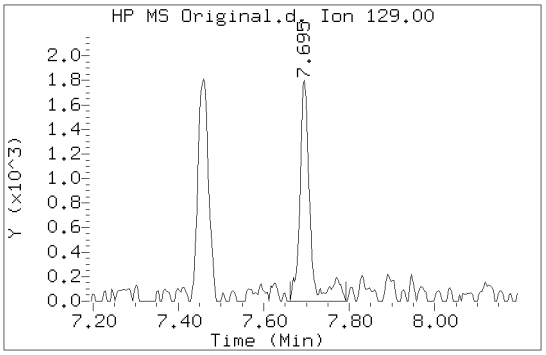


Dibromochloromethane (124-48-1)

Reason Code:

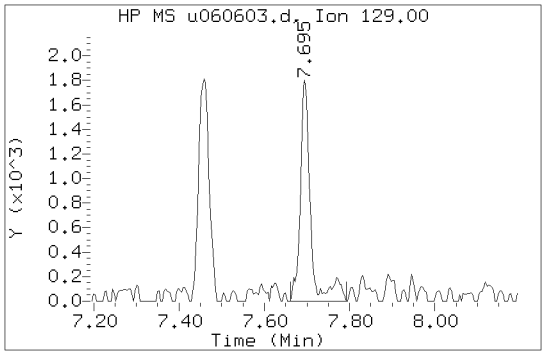
BEFORE

MASS
129
AREA
3068
HEIGHT
1800
08-Jun-2023
14:56
linh
pham



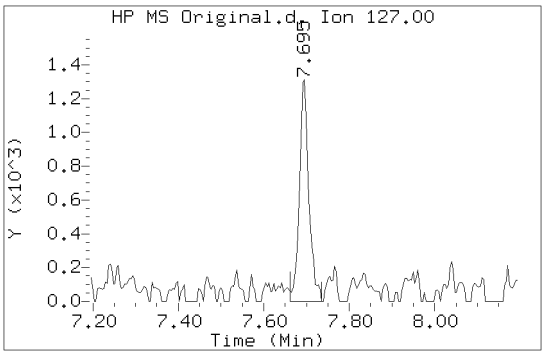
AFTER

MASS
129
AREA
3068
HEIGHT
1800
21-Jun-2023
13:47
linh
pha



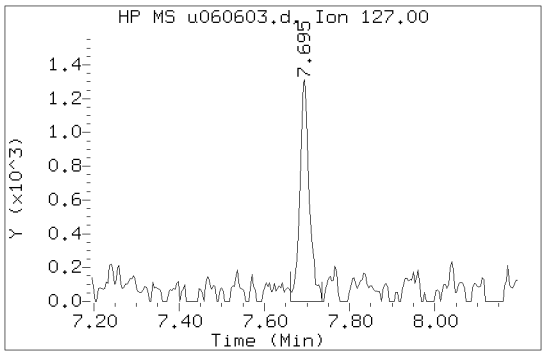
BEFORE

MASS
127
AREA
2055
HEIGHT
1312
08-Jun-2023
14:56
linh
pham



AFTER

MASS
127
AREA
2055
HEIGHT
1312
21-Jun-2023
13:47
linh
pha



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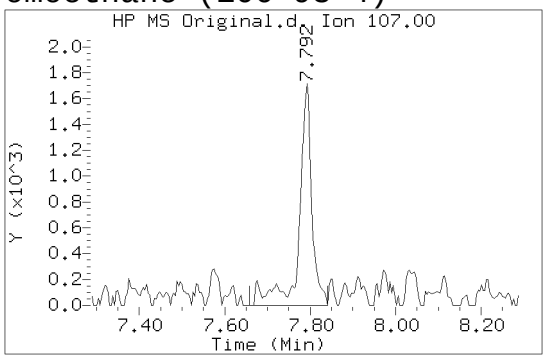
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

1,2-Dibromoethane (106-93-4)

Reason Code:

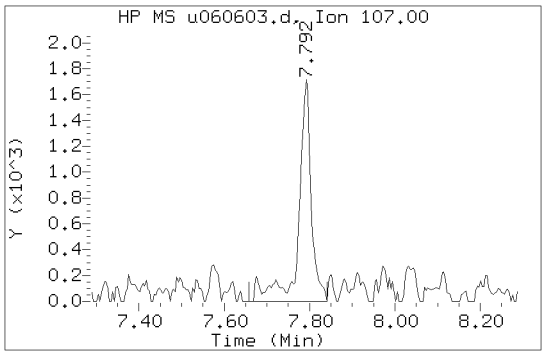
BEFORE

MASS
107
AREA
3622
HEIGHT
1715
08-Jun-2023
14:56
linh
pham



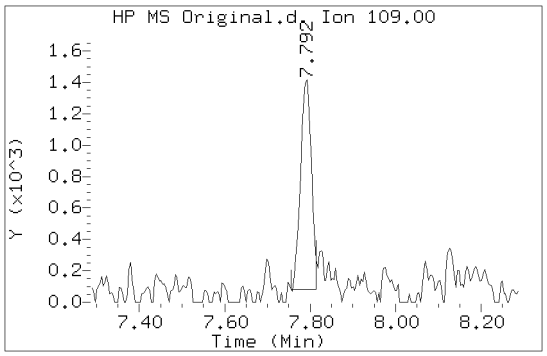
AFTER

MASS
107
AREA
3622
HEIGHT
1715
21-Jun-2023
13:47
linh
pha



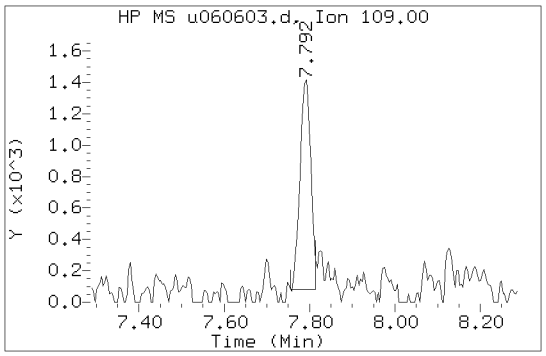
BEFORE

MASS
109
AREA
2422
HEIGHT
1334
08-Jun-2023
14:56
linh
pham



AFTER

MASS
109
AREA
2422
HEIGHT
1334
21-Jun-2023
13:47
linh
pha

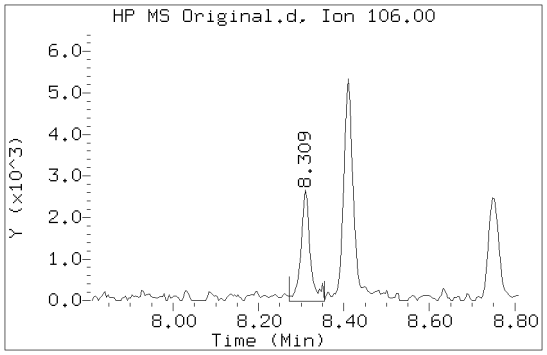


Ethylbenzene (100-41-4)

Reason Code:

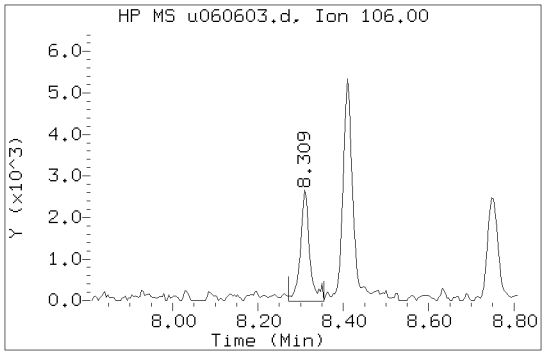
BEFORE

MASS
106
AREA
4142
HEIGHT
2674
08-Jun-2023
14:56
linh
pham



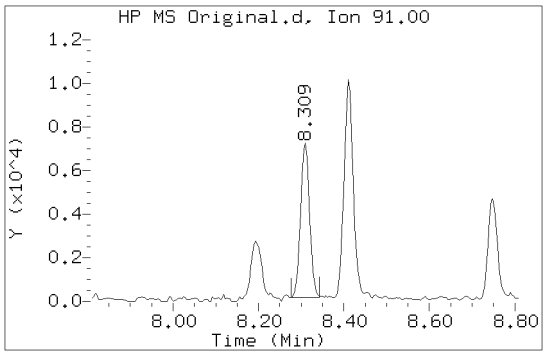
AFTER

MASS
106
AREA
4142
HEIGHT
2674
21-Jun-2023
13:47
linh
pha



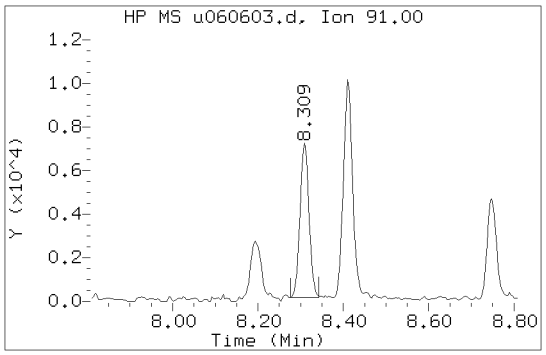
BEFORE

MASS
91
AREA
10611
HEIGHT
7101
08-Jun-2023
14:56
linh
pham



AFTER

MASS
91
AREA
10611
HEIGHT
7101
21-Jun-2023
13:47
linh
pha



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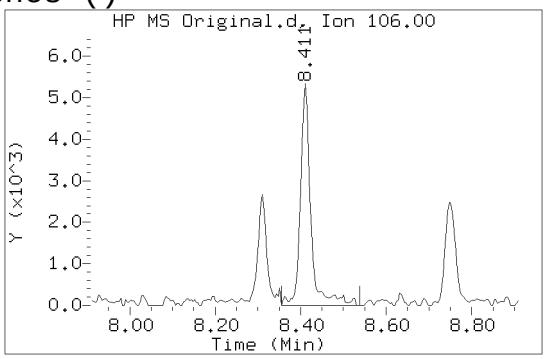
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

m,p-Xylenes ()

Reason Code:

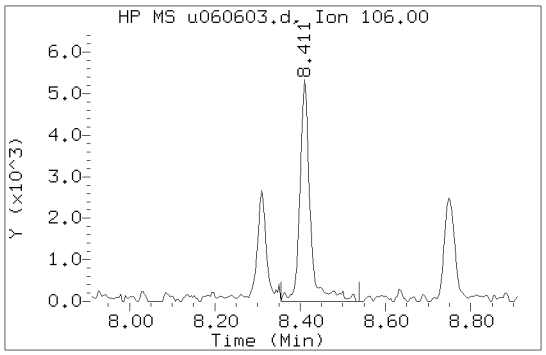
BEFORE

MASS
106
AREA
9164
HEIGHT
5338
08-Jun-2023
14:56
linh
pham



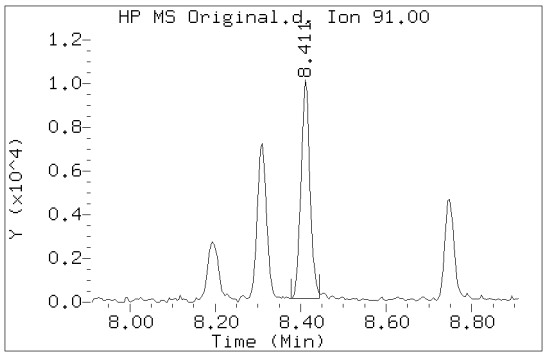
AFTER

MASS
106
AREA
9164
HEIGHT
5338
21-Jun-2023
13:47
linh
pha



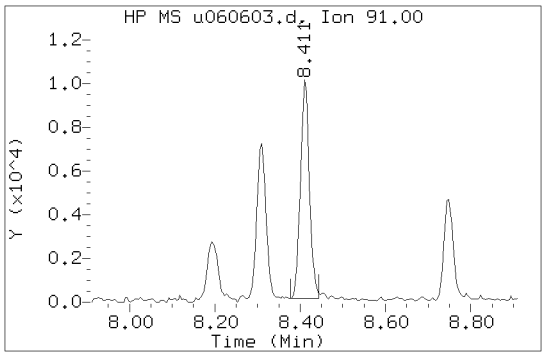
BEFORE

MASS
91
AREA
14815
HEIGHT
9979
08-Jun-2023
14:56
linh
pham



AFTER

MASS
91
AREA
14815
HEIGHT
9979
21-Jun-2023
13:47
linh
pha

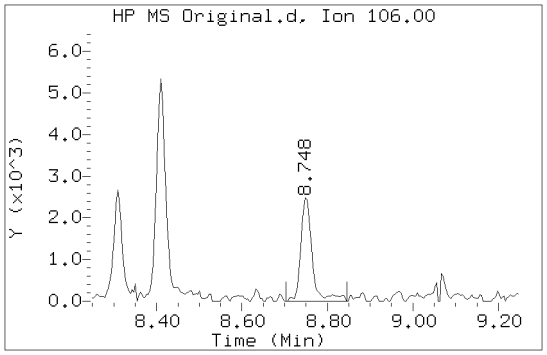


o-Xylene (95-47-6)

Reason Code:

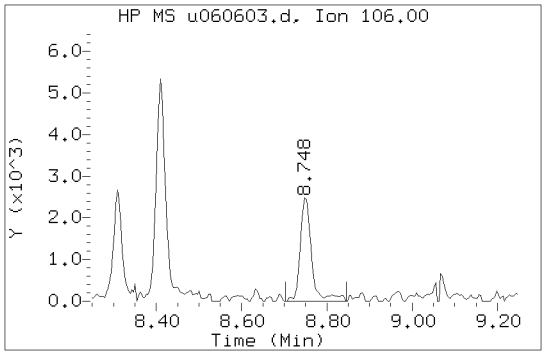
BEFORE

MASS
106
AREA
4736
HEIGHT
2481
08-Jun-2023
14:56
linh
pham



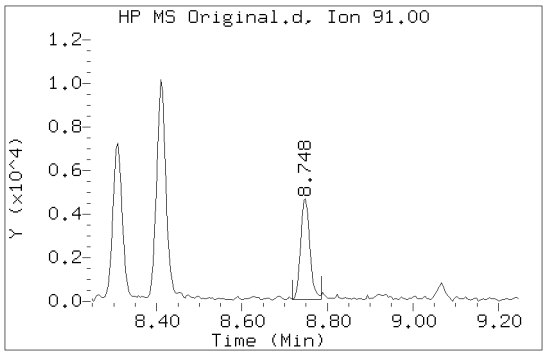
AFTER

MASS
106
AREA
4736
HEIGHT
2481
21-Jun-2023
13:47
linh
pha



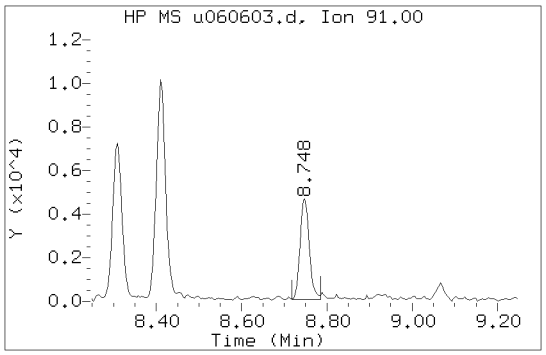
BEFORE

MASS
91
AREA
7145
HEIGHT
4614
08-Jun-2023
14:56
linh
pham



AFTER

MASS
91
AREA
7145
HEIGHT
4614
21-Jun-2023
13:47
linh
pha



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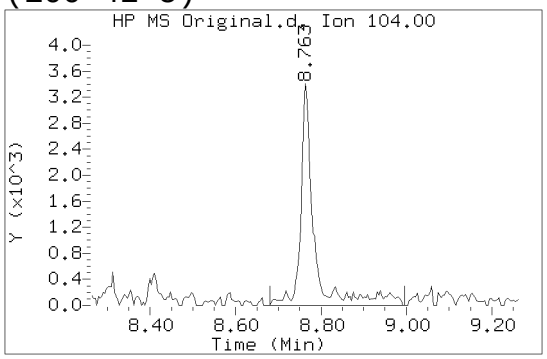
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

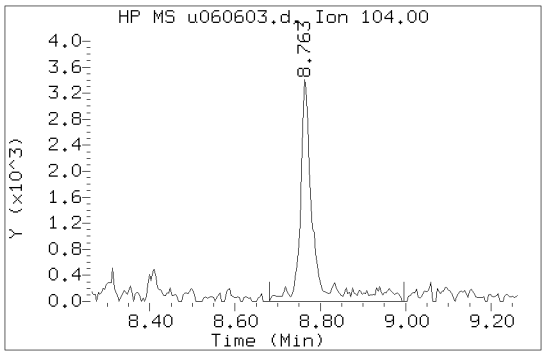
Styrene (100-42-5)

Reason Code:

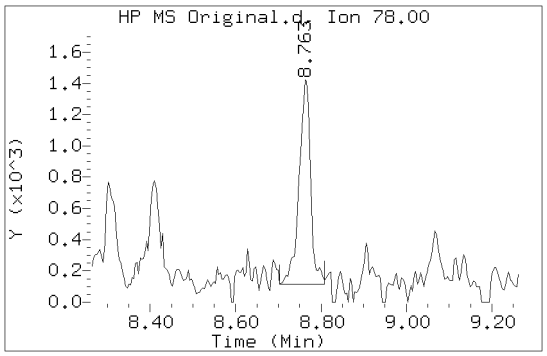
BEFORE
MASS
104
AREA
7547
HEIGHT
3407
08-Jun-2023
14:56
linh
pham



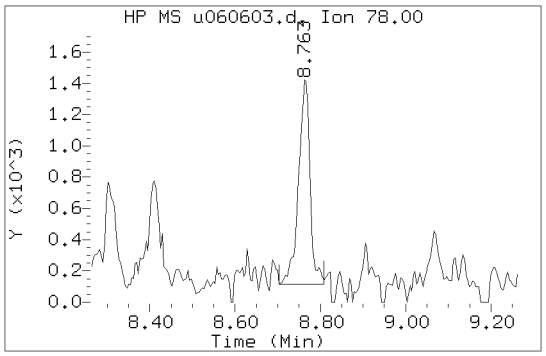
AFTER
MASS
104
AREA
7547
HEIGHT
3407
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
78
AREA
2506
HEIGHT
1307
08-Jun-2023
14:56
linh
pham



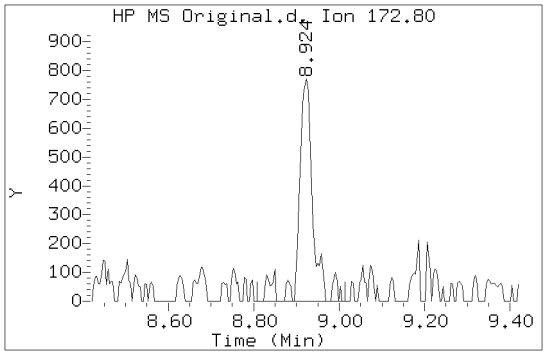
AFTER
MASS
78
AREA
2506
HEIGHT
1307
21-Jun-2023
13:47
linh
pha



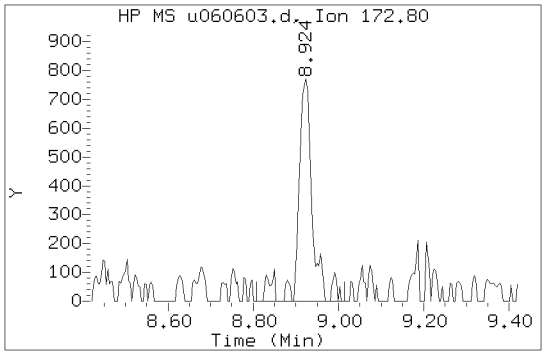
Bromoform (75-25-2)

Reason Code:

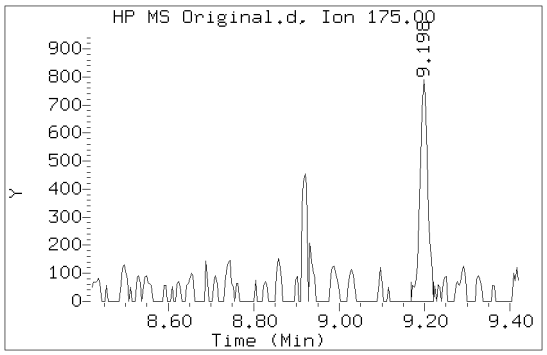
BEFORE
MASS
172.8
AREA
1797
HEIGHT
771
08-Jun-2023
14:56
linh
pham



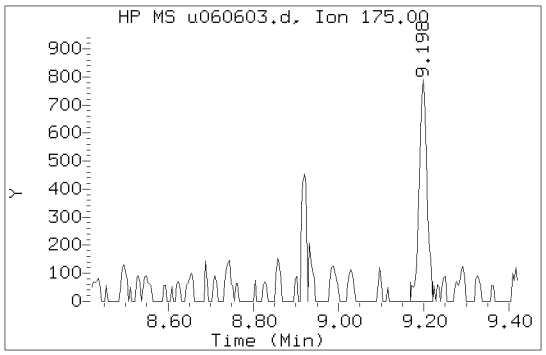
AFTER
MASS
172.8
AREA
1797
HEIGHT
771
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
175
AREA
1005
HEIGHT
790
08-Jun-2023
14:56
linh
pham



AFTER
MASS
175
AREA
1005
HEIGHT
790
21-Jun-2023
13:47
linh
pha



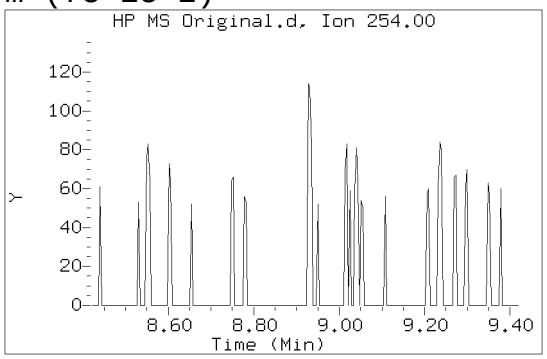
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Bromoform (75-25-2)

Reason Code:

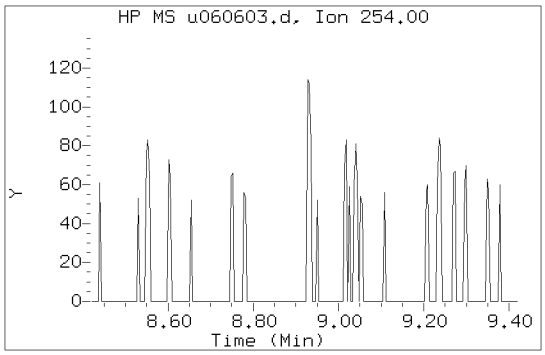
BEFORE

MASS
254
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
254
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

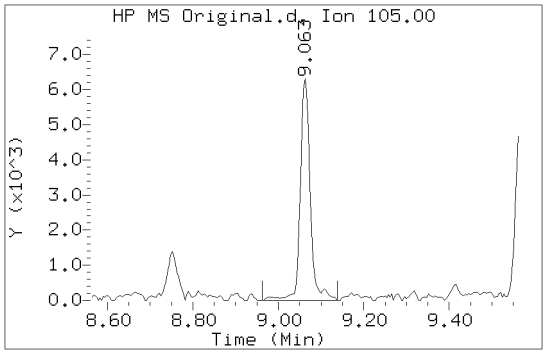


Isopropylbenzene (98-82-8)

Reason Code:

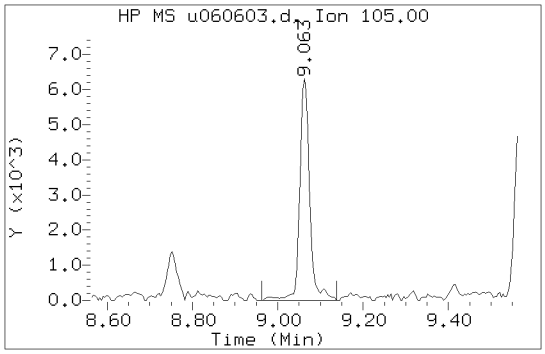
BEFORE

MASS
105
AREA
10525
HEIGHT
6310
08-Jun-2023
14:56
linh
pham



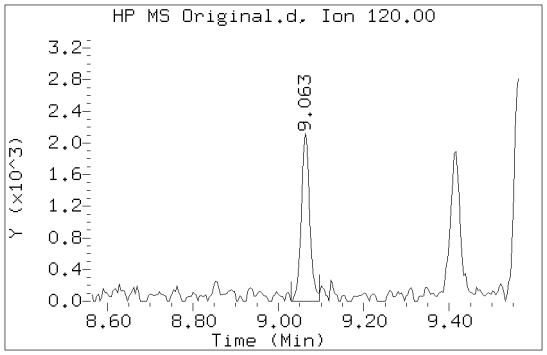
AFTER

MASS
105
AREA
10525
HEIGHT
6310
21-Jun-2023
13:47
linh
pha



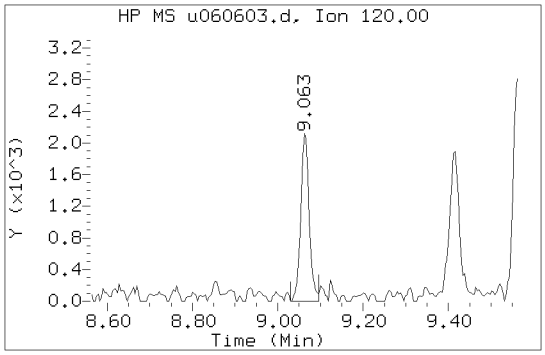
BEFORE

MASS
120
AREA
2979
HEIGHT
2122
08-Jun-2023
14:56
linh
pham



AFTER

MASS
120
AREA
2979
HEIGHT
2122
21-Jun-2023
13:47
linh
pha

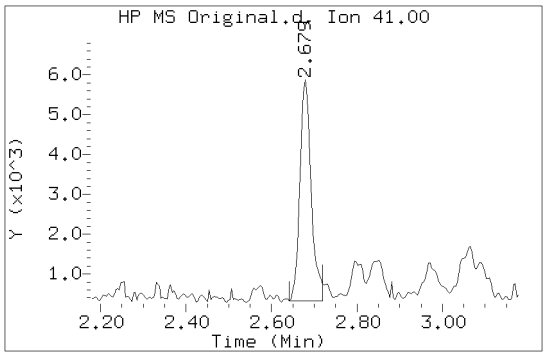


Allyl Chloride (107-05-1)

Reason Code:

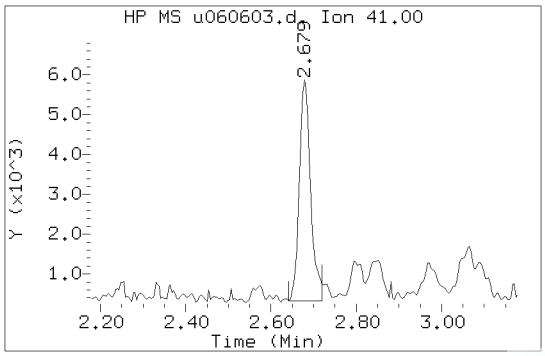
BEFORE

MASS
41
AREA
10377
HEIGHT
5545
08-Jun-2023
14:56
linh
pham



AFTER

MASS
41
AREA
10377
HEIGHT
5545
21-Jun-2023
13:47
linh
pha



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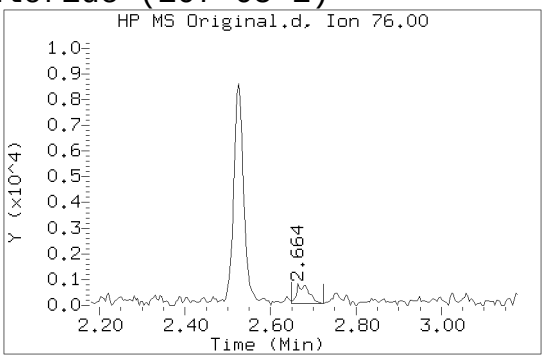
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Allyl Chloride (107-05-1)

Reason Code:

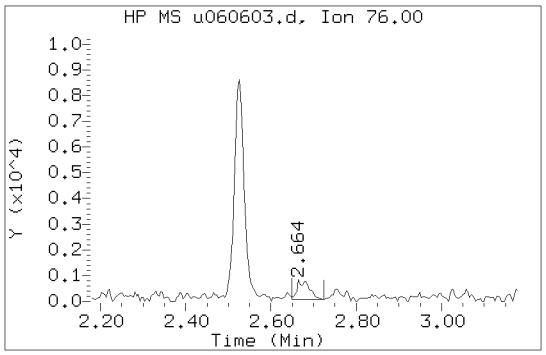
BEFORE

MASS
76
AREA
1452
HEIGHT
753
08-Jun-2023
14:56
linh
pham



AFTER

MASS
76
AREA
1452
HEIGHT
753
21-Jun-2023
13:47
linh
pha

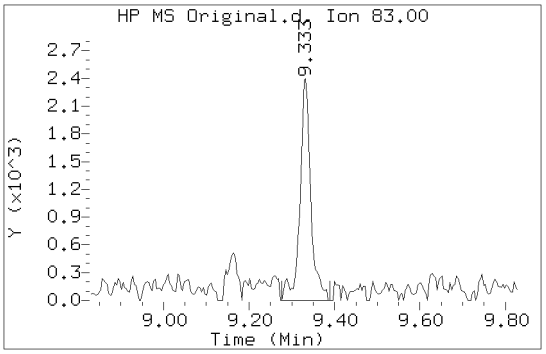


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

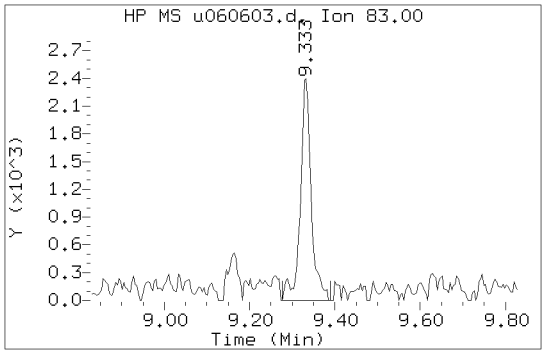
BEFORE

MASS
83
AREA
4333
HEIGHT
2397
08-Jun-2023
14:56
linh
pham



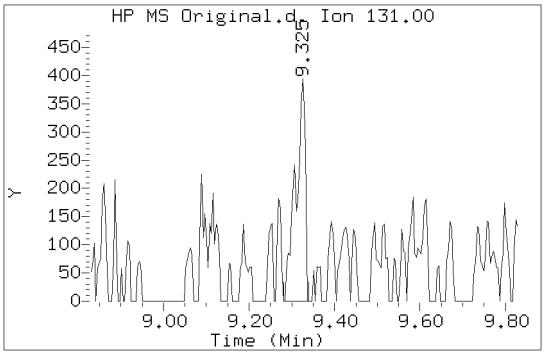
AFTER

MASS
83
AREA
4333
HEIGHT
2397
21-Jun-2023
13:47
linh
pha



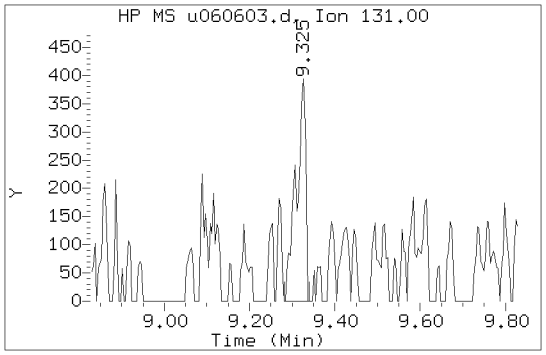
BEFORE

MASS
131
AREA
624
HEIGHT
394
08-Jun-2023
14:56
linh
pham



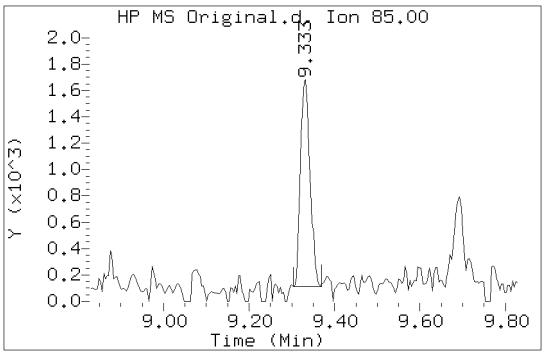
AFTER

MASS
131
AREA
624
HEIGHT
394
21-Jun-2023
13:47
linh
pha



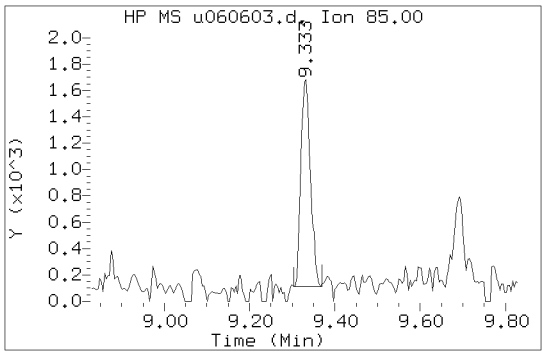
BEFORE

MASS
85
AREA
2508
HEIGHT
1568
08-Jun-2023
14:56
linh
pham



AFTER

MASS
85
AREA
2508
HEIGHT
1568
21-Jun-2023
13:47
linh
pha



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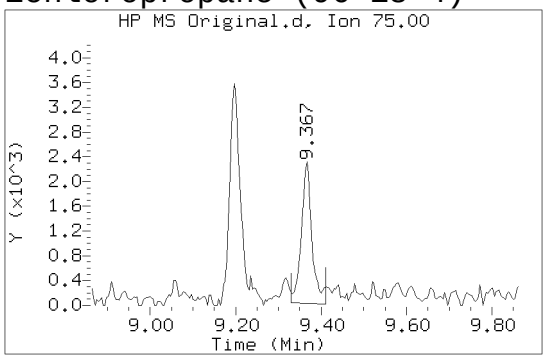
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

1,2,3-Trichloropropane (96-18-4)

Reason Code:

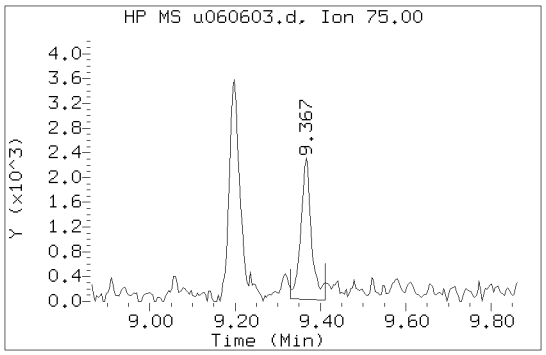
BEFORE

MASS
75
AREA
4089
HEIGHT
2289
08-Jun-2023
14:56
linh
pham



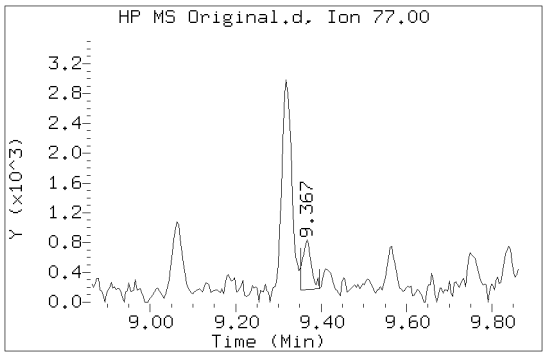
AFTER

MASS
75
AREA
4089
HEIGHT
2289
21-Jun-2023
13:47
linh
pha



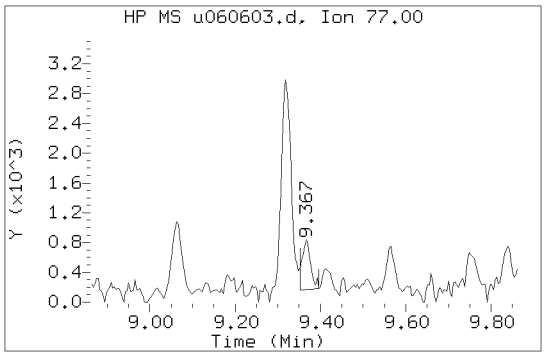
BEFORE

MASS
77
AREA
963
HEIGHT
669
08-Jun-2023
14:56
linh
pham



AFTER

MASS
77
AREA
963
HEIGHT
669
21-Jun-2023
13:47
linh
pha

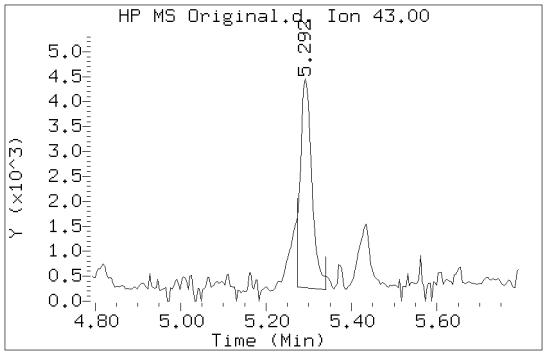


Isobutyl Alcohol (78-83-1)

Reason Code:

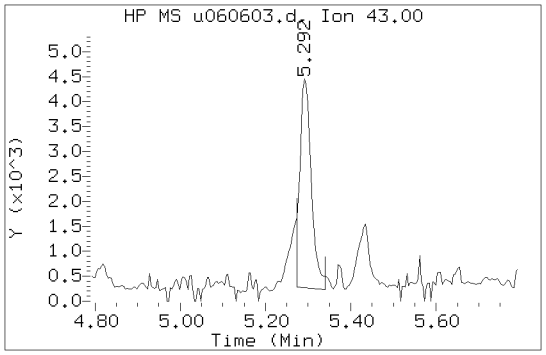
BEFORE

MASS
43
AREA
8062
HEIGHT
4185
08-Jun-2023
14:56
linh
pham



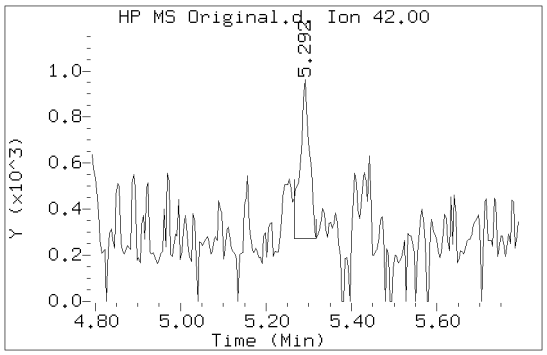
AFTER

MASS
43
AREA
8062
HEIGHT
4185
21-Jun-2023
13:47
linh
pha



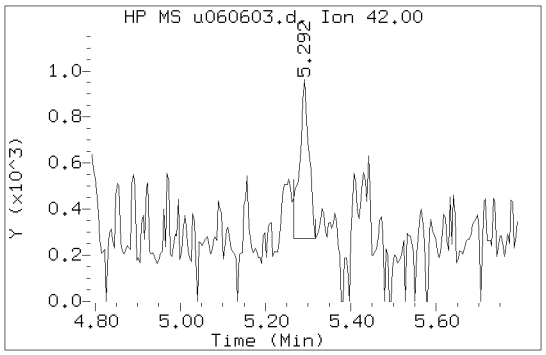
BEFORE

MASS
42
AREA
1073
HEIGHT
689
08-Jun-2023
14:56
linh
pham



AFTER

MASS
42
AREA
1073
HEIGHT
689
21-Jun-2023
13:47
linh
pha



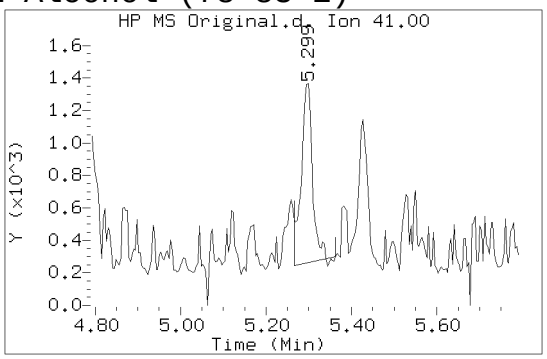
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Isobutyl Alcohol (78-83-1)

Reason Code:

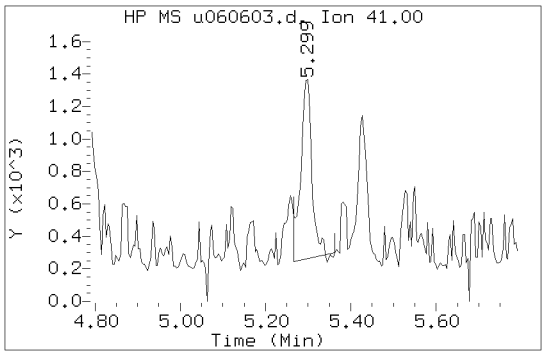
BEFORE

MASS
41
AREA
2043
HEIGHT
1100
08-Jun-2023
14:56
linh
pham



AFTER

MASS
41
AREA
2043
HEIGHT
1100
21-Jun-2023
13:47
linh
pha

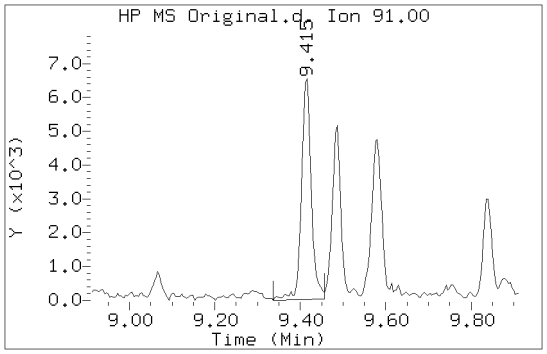


n-Propylbenzene (106-65-1)

Reason Code:

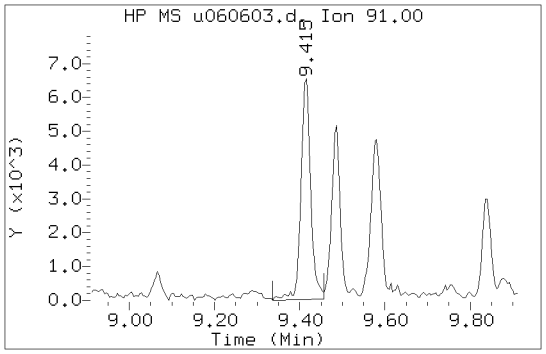
BEFORE

MASS
91
AREA
10721
HEIGHT
6532
08-Jun-2023
14:56
linh
pham



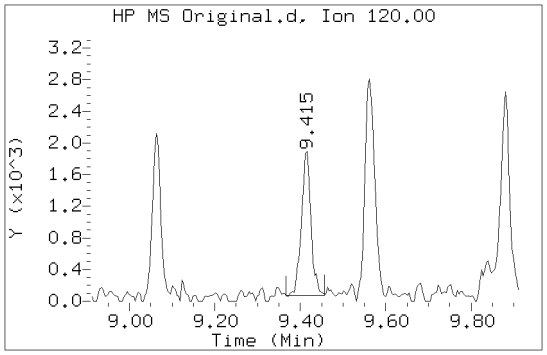
AFTER

MASS
91
AREA
10721
HEIGHT
6532
21-Jun-2023
13:47
linh
pha



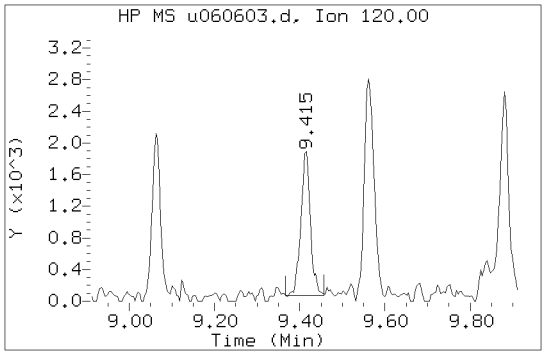
BEFORE

MASS
120
AREA
2911
HEIGHT
1823
08-Jun-2023
14:56
linh
pham



AFTER

MASS
120
AREA
2911
HEIGHT
1823
21-Jun-2023
13:47
linh
pha

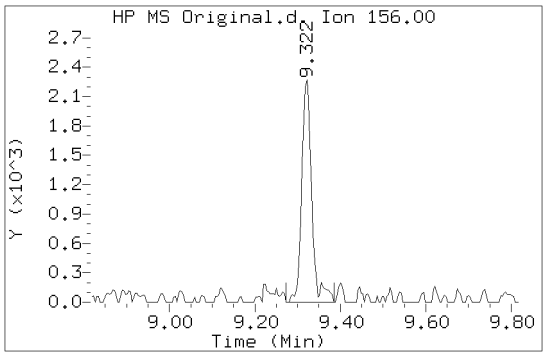


Bromobenzene (108-86-1)

Reason Code:

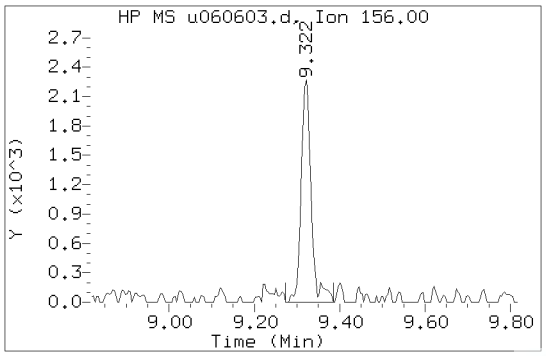
BEFORE

MASS
156
AREA
3800
HEIGHT
2270
08-Jun-2023
14:56
linh
pham



AFTER

MASS
156
AREA
3800
HEIGHT
2270
21-Jun-2023
13:47
linh
pha

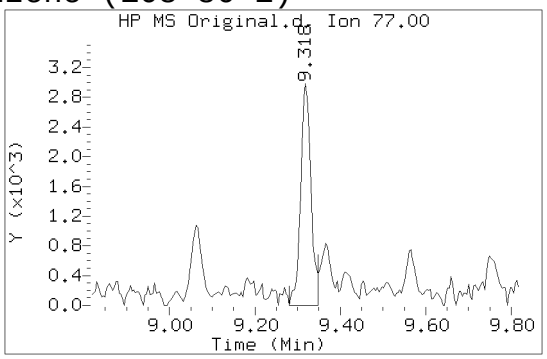


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

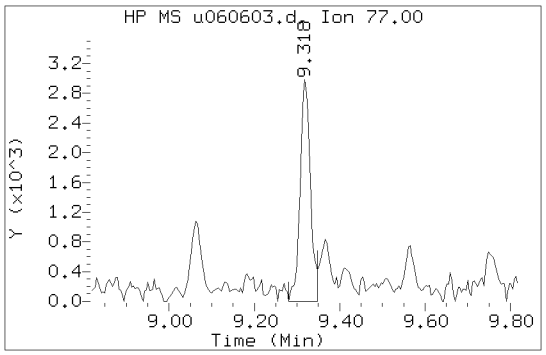
Bromobenzene (108-86-1)

Reason Code:

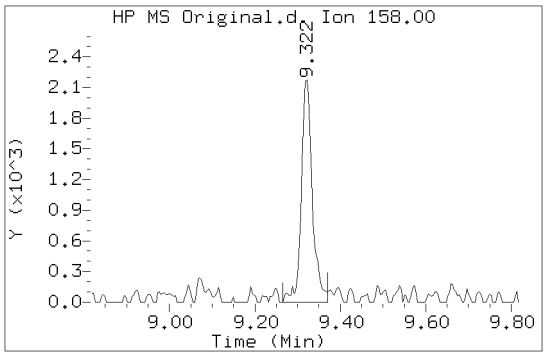
BEFORE
MASS
77
AREA
5137
HEIGHT
2983
08-Jun-2023
14:56
linh
pham



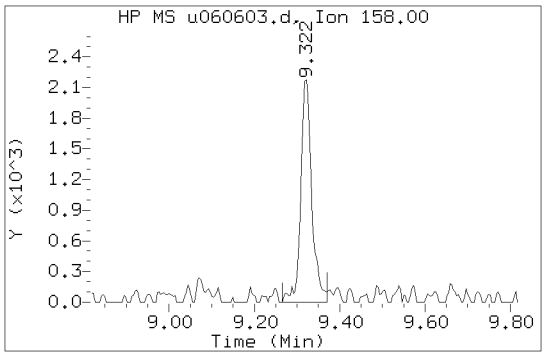
AFTER
MASS
77
AREA
5137
HEIGHT
2983
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
158
AREA
4021
HEIGHT
2175
08-Jun-2023
14:56
linh
pham



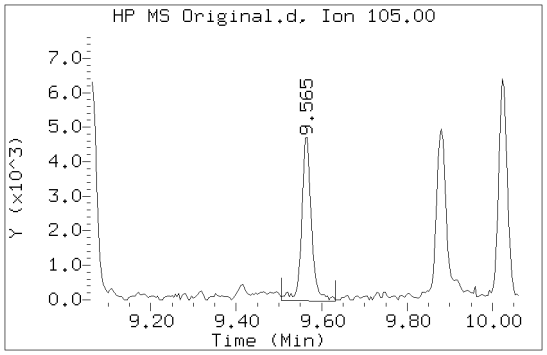
AFTER
MASS
158
AREA
4021
HEIGHT
2175
21-Jun-2023
13:47
linh
pha



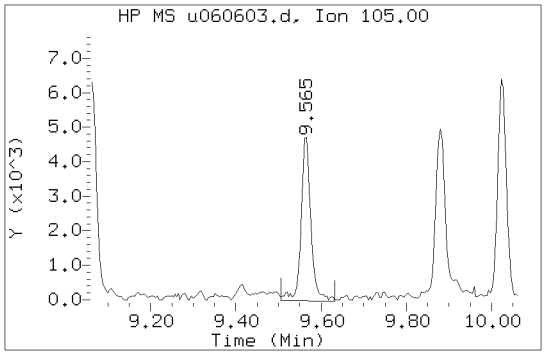
1,3,5-Trimethylbenzene (108-67-8)

Reason Code:

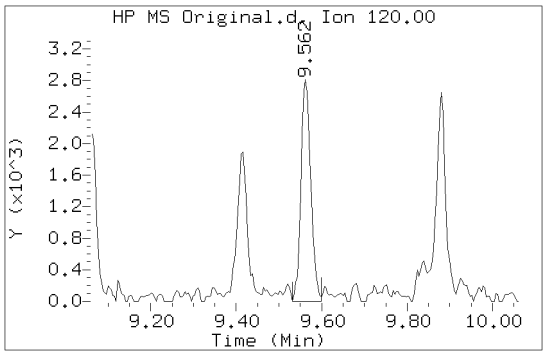
BEFORE
MASS
105
AREA
7820
HEIGHT
4732
08-Jun-2023
14:56
linh
pham



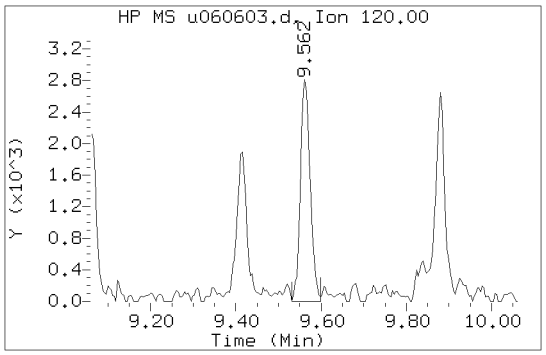
AFTER
MASS
105
AREA
7820
HEIGHT
4732
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
120
AREA
4592
HEIGHT
2810
08-Jun-2023
14:56
linh
pham



AFTER
MASS
120
AREA
4592
HEIGHT
2810
21-Jun-2023
13:47
linh
pha

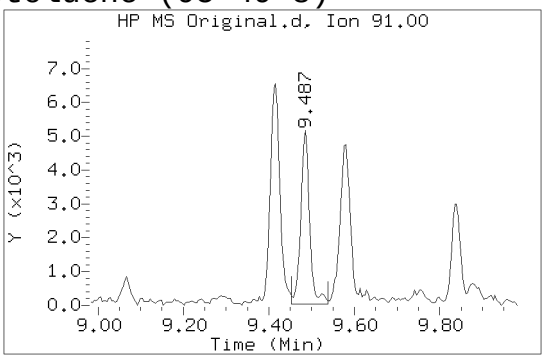


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

2-Chlorotoluene (95-49-8)

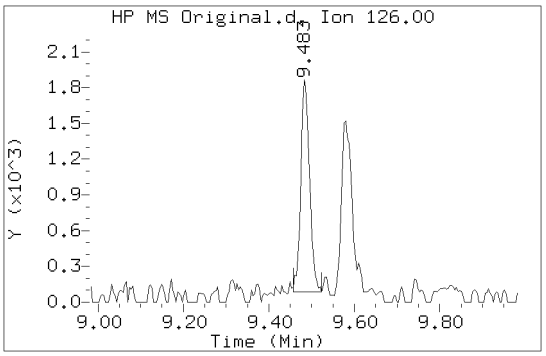
BEFORE

MASS
91
AREA
7551
HEIGHT
5138
08-Jun-2023
14:56
linh
pham



BEFORE

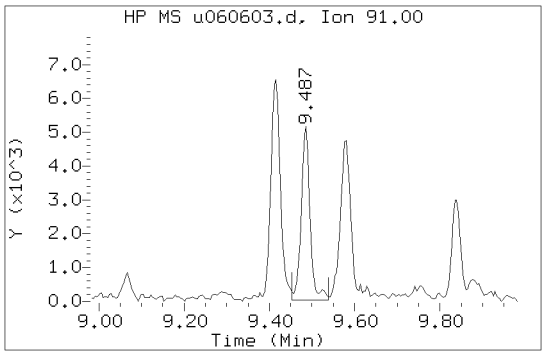
MASS
126
AREA
2589
HEIGHT
1779
08-Jun-2023
14:56
linh
pham



Reason Code:

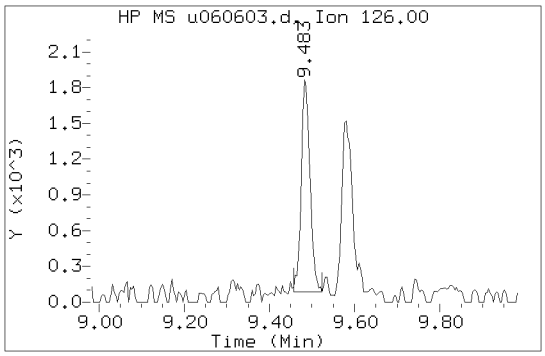
AFTER

MASS
91
AREA
7551
HEIGHT
5138
21-Jun-2023
13:47
linh
pha



AFTER

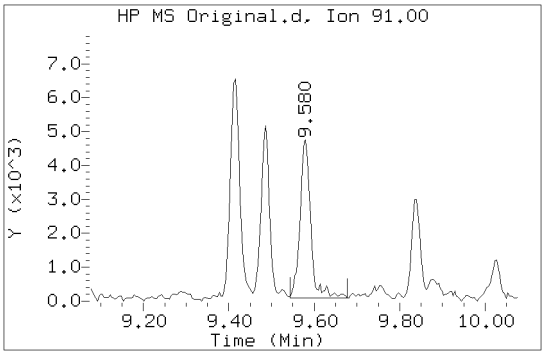
MASS
126
AREA
2589
HEIGHT
1779
21-Jun-2023
13:47
linh
pha



4-Chlorotoluene (106-43-4)

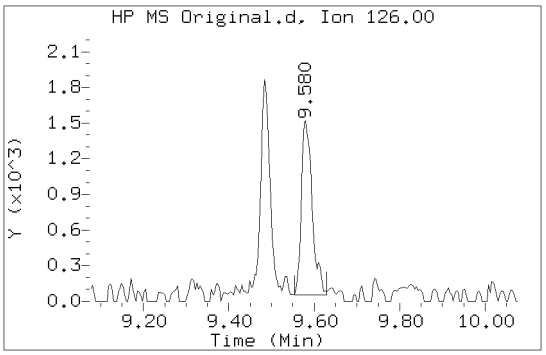
BEFORE

MASS
91
AREA
8243
HEIGHT
4662
08-Jun-2023
14:56
linh
pham



BEFORE

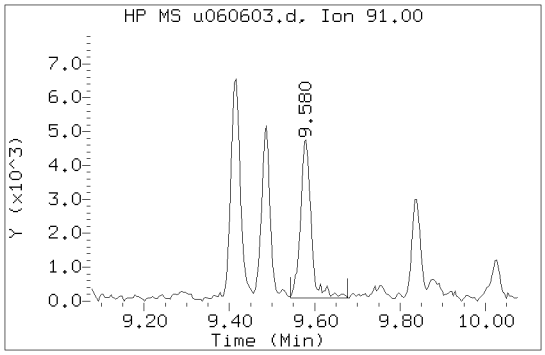
MASS
126
AREA
2606
HEIGHT
1467
08-Jun-2023
14:56
linh
pham



Reason Code:

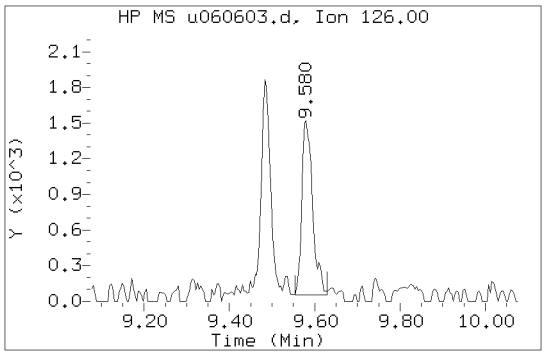
AFTER

MASS
91
AREA
8243
HEIGHT
4662
21-Jun-2023
13:47
linh
pha



AFTER

MASS
126
AREA
2606
HEIGHT
1467
21-Jun-2023
13:47
linh
pha



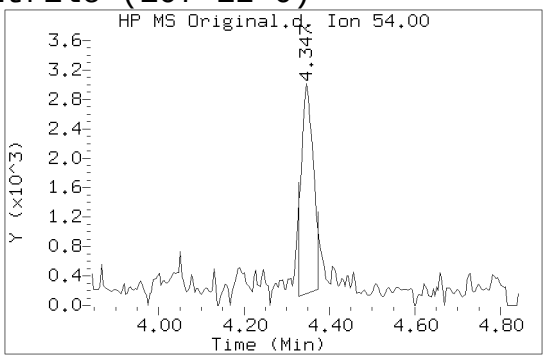
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Propionitrile (107-12-0)

Reason Code:

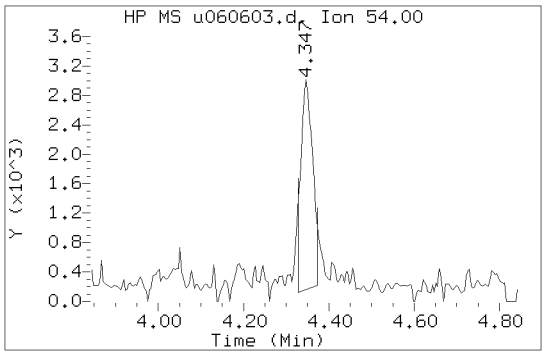
BEFORE

MASS
54
AREA
5579
HEIGHT
2848
08-Jun-2023
14:56
linh
pham



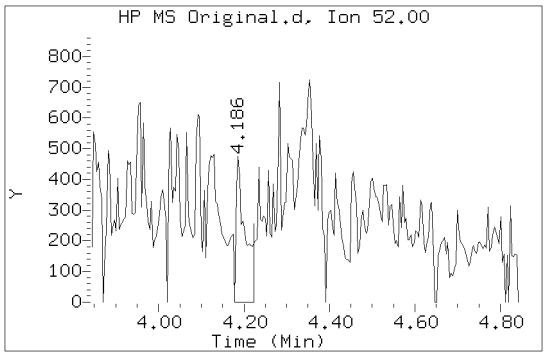
AFTER

MASS
54
AREA
5579
HEIGHT
2848
21-Jun-2023
13:47
linh
pha



BEFORE

MASS
52
AREA
706
HEIGHT
475
08-Jun-2023
14:56
linh
pham



AFTER

MASS
52
AREA
706
HEIGHT
475
21-Jun-2023
13:47
linh
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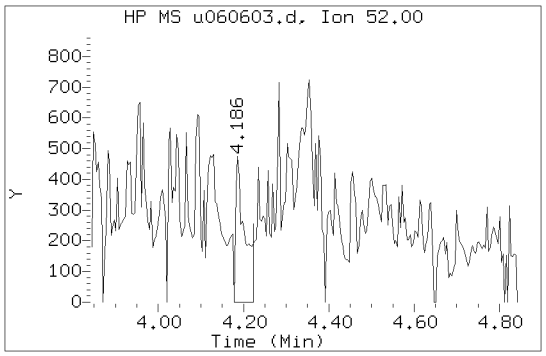
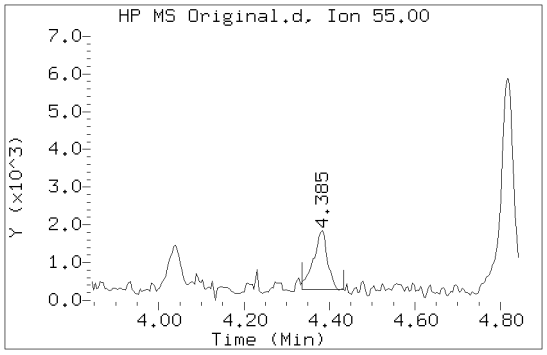


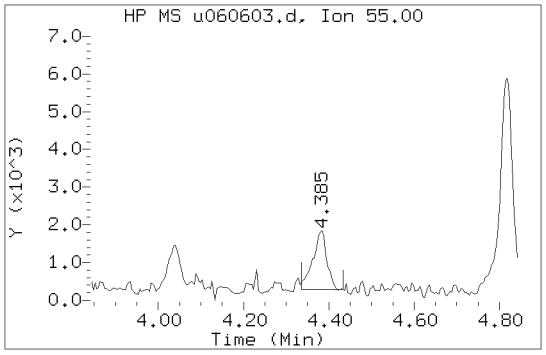
BEFORE

MASS
55
AREA
3548
HEIGHT
1559
08-Jun-2023
14:56
linh
pham



AFTER

MASS
55
AREA
3548
HEIGHT
1559
21-Jun-2023
13:47
linh
pha

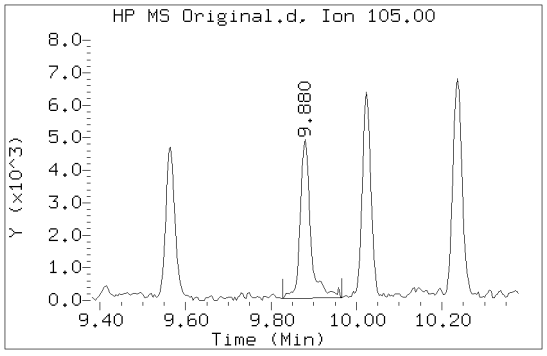


1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

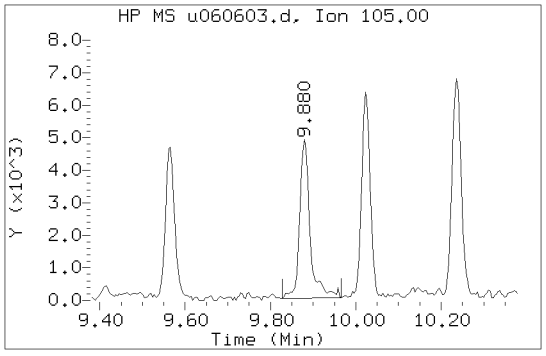
BEFORE

MASS
105
AREA
8548
HEIGHT
4875
08-Jun-2023
14:56
linh
pham



AFTER

MASS
105
AREA
8548
HEIGHT
4875
21-Jun-2023
13:47
linh
pha



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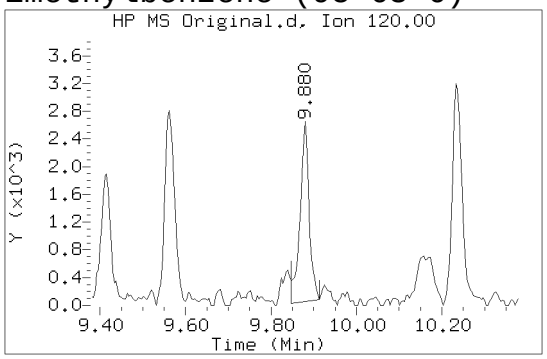
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

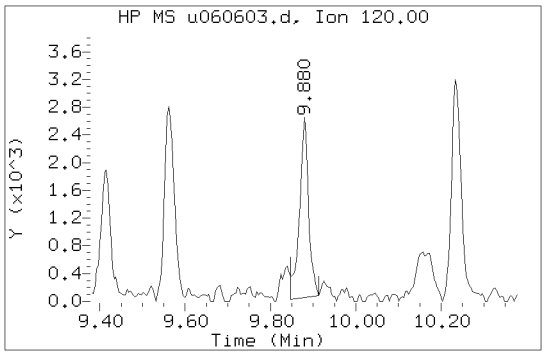
BEFORE

MASS
120
AREA
3975
HEIGHT
2592
08-Jun-2023
14:56
linh
pham



AFTER

MASS
120
AREA
3975
HEIGHT
2592
21-Jun-2023
13:47
linh
pha

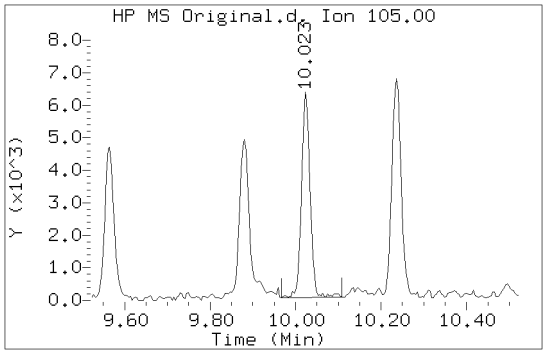


sec-Butylbenzene (135-98-8)

Reason Code:

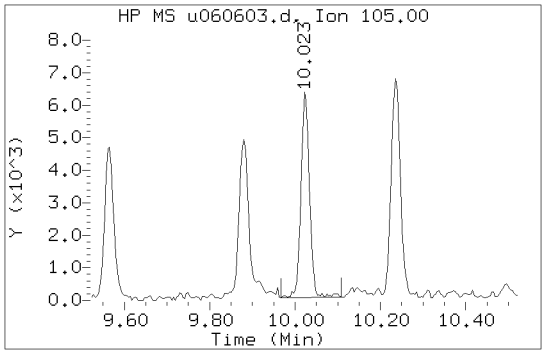
BEFORE

MASS
105
AREA
9131
HEIGHT
6310
08-Jun-2023
14:56
linh
pham



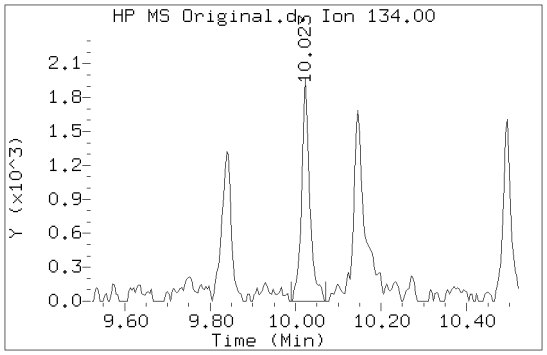
AFTER

MASS
105
AREA
9131
HEIGHT
6310
21-Jun-2023
13:47
linh
pha



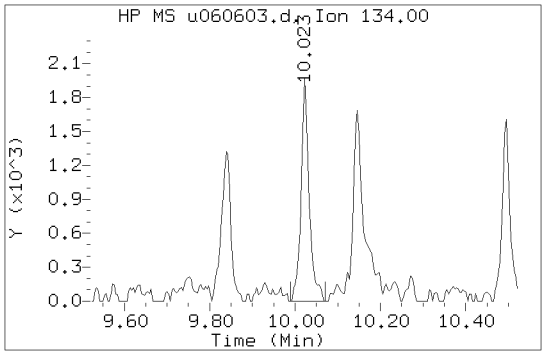
BEFORE

MASS
134
AREA
2687
HEIGHT
1965
08-Jun-2023
14:56
linh
pham



AFTER

MASS
134
AREA
2687
HEIGHT
1965
21-Jun-2023
13:47
linh
pha

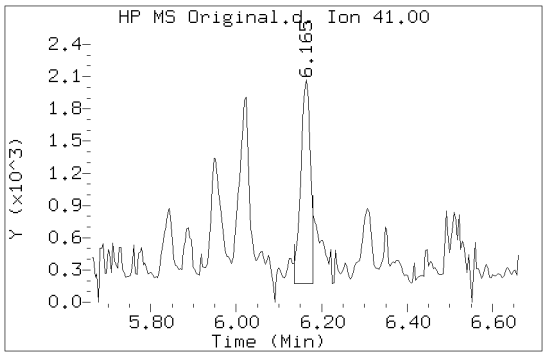


Methyl Methacrylate (80-62-6)

Reason Code:

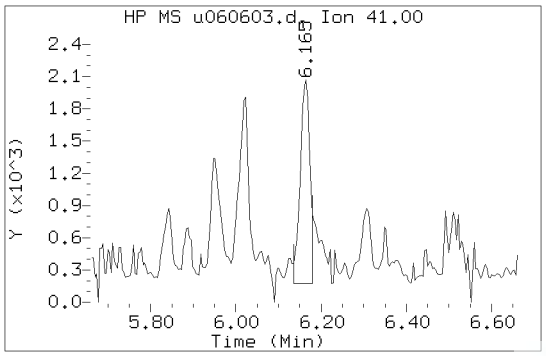
BEFORE

MASS
41
AREA
3083
HEIGHT
1894
08-Jun-2023
14:56
linh
pham



AFTER

MASS
41
AREA
3083
HEIGHT
1894
21-Jun-2023
13:47
linh
pha



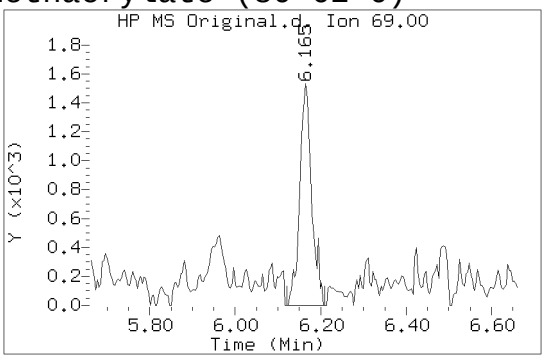
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Methyl Methacrylate (80-62-6)

Reason Code:

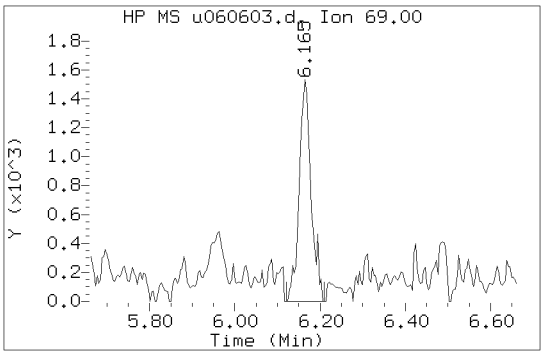
BEFORE

MASS
69
AREA
3017
HEIGHT
1532
08-Jun-2023
14:56
linh
pham



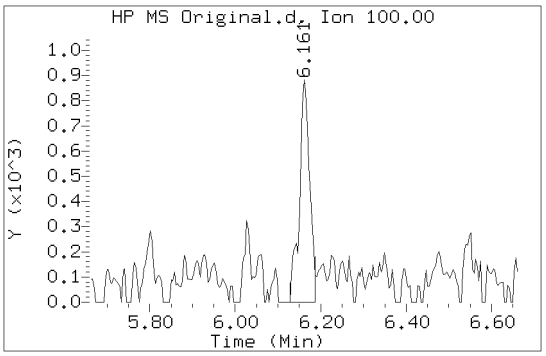
AFTER

MASS
69
AREA
3017
HEIGHT
1532
21-Jun-2023
13:47
linh
pha



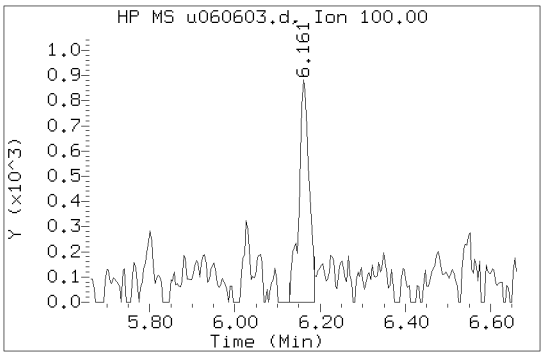
BEFORE

MASS
100
AREA
1506
HEIGHT
882
08-Jun-2023
14:56
linh
pham



AFTER

MASS
100
AREA
1506
HEIGHT
882
21-Jun-2023
13:47
linh
pha

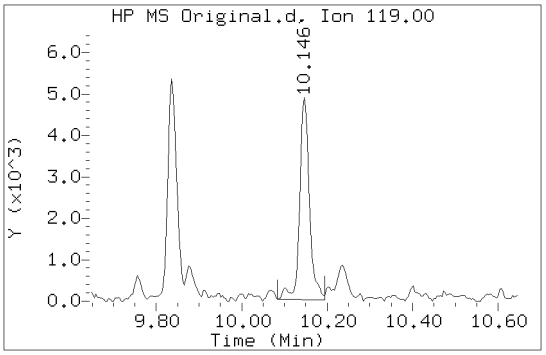


p-Isopropyltoluene (99-87-6)

Reason Code:

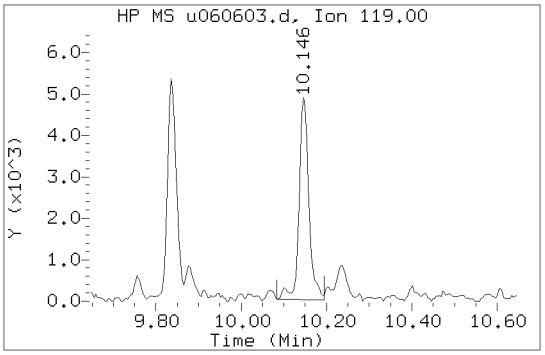
BEFORE

MASS
119
AREA
7969
HEIGHT
4880
08-Jun-2023
14:56
linh
pham



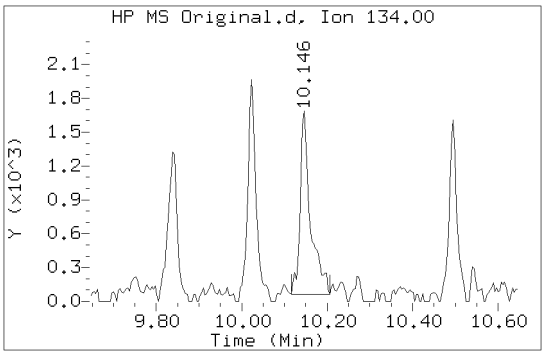
AFTER

MASS
119
AREA
7969
HEIGHT
4880
21-Jun-2023
13:47
linh
pha



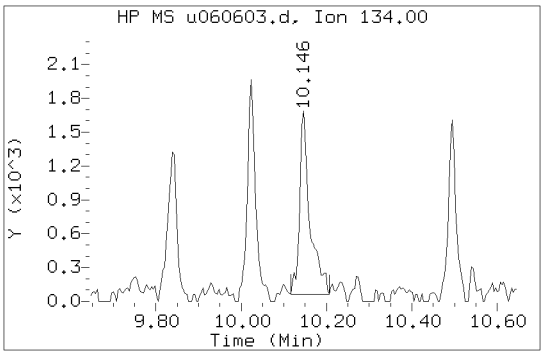
BEFORE

MASS
134
AREA
2795
HEIGHT
1627
08-Jun-2023
14:56
linh
pham



AFTER

MASS
134
AREA
2795
HEIGHT
1627
21-Jun-2023
13:47
linh
pha



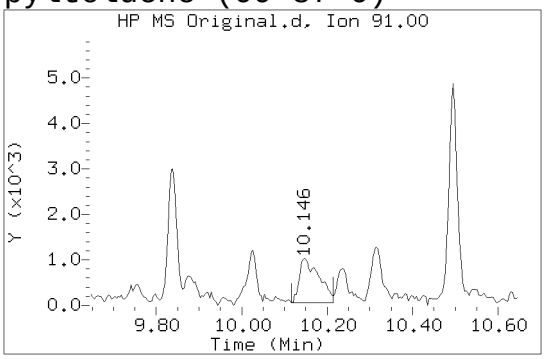
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

p-Isopropyltoluene (99-87-6)

Reason Code:

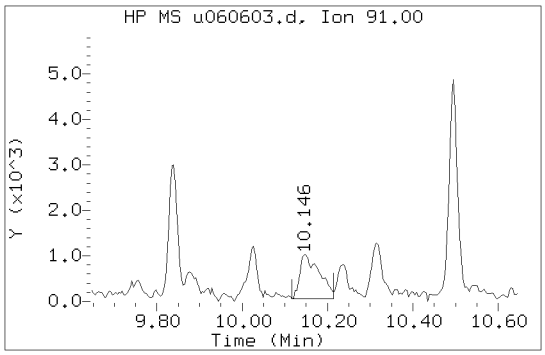
BEFORE

MASS
91
AREA
3125
HEIGHT
970
08-Jun-2023
14:56
linh
pham



AFTER

MASS
91
AREA
3125
HEIGHT
970
21-Jun-2023
13:47
linh
pha

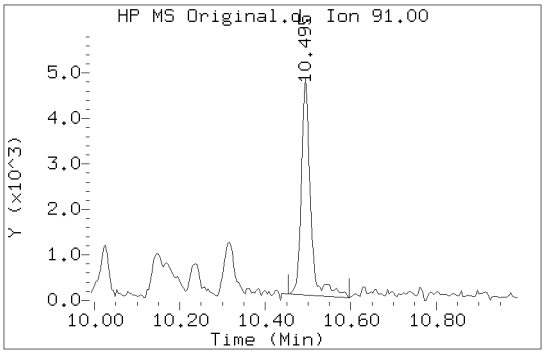


n-Butylbenzene (104-51-8)

Reason Code:

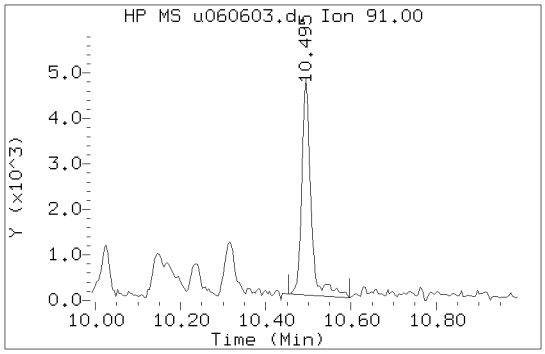
BEFORE

MASS
91
AREA
7213
HEIGHT
4758
08-Jun-2023
14:56
linh
pham



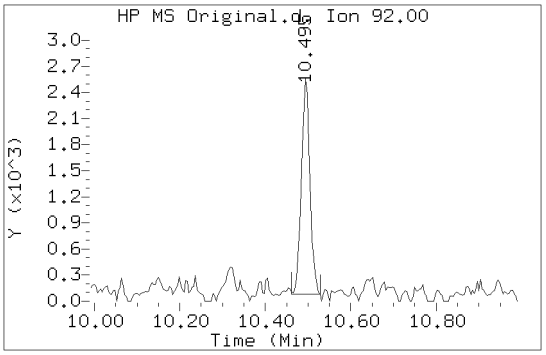
AFTER

MASS
91
AREA
7213
HEIGHT
4758
21-Jun-2023
13:47
linh
pha



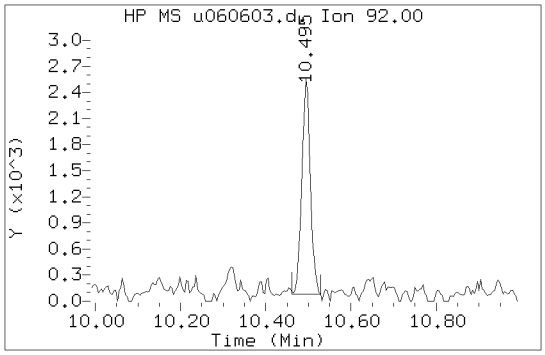
BEFORE

MASS
92
AREA
3472
HEIGHT
2472
08-Jun-2023
14:56
linh
pham



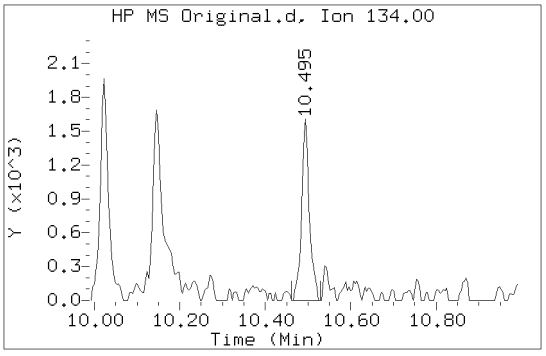
AFTER

MASS
92
AREA
3472
HEIGHT
2472
21-Jun-2023
13:47
linh
pha



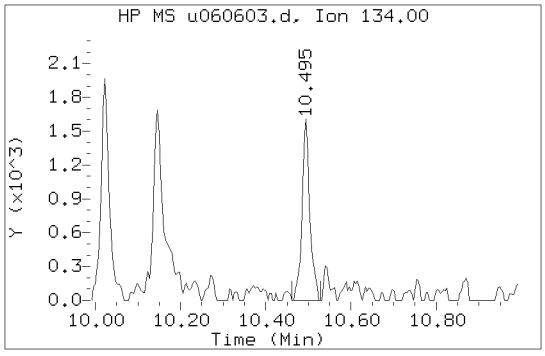
BEFORE

MASS
134
AREA
2070
HEIGHT
1610
08-Jun-2023
14:56
linh
pham



AFTER

MASS
134
AREA
2070
HEIGHT
1610
21-Jun-2023
13:47
linh
pha

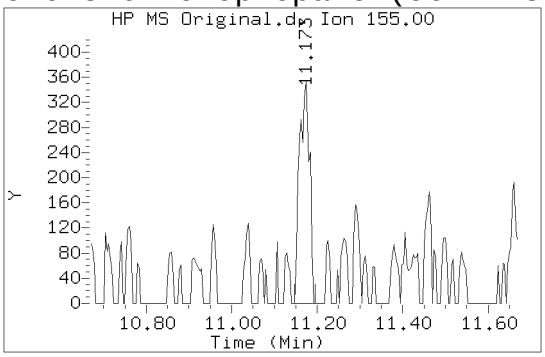


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

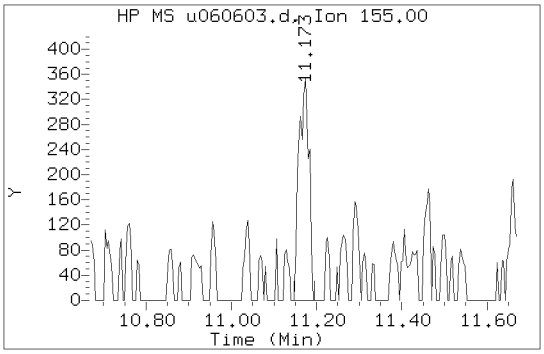
1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

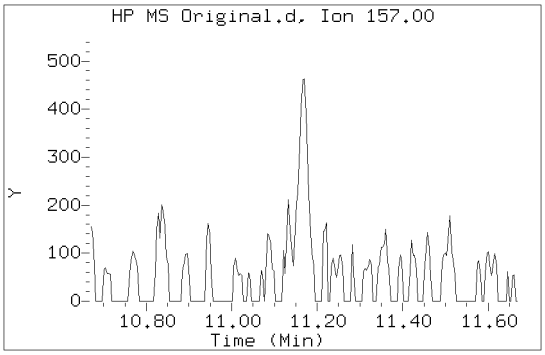
BEFORE
MASS
155
AREA
589
HEIGHT
353
08-Jun-2023
14:56
linh
pham



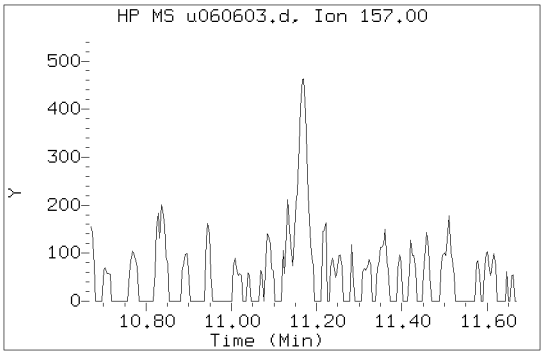
AFTER
MASS
155
AREA
589
HEIGHT
353
21-Jun-2023
13:47
linh
pha



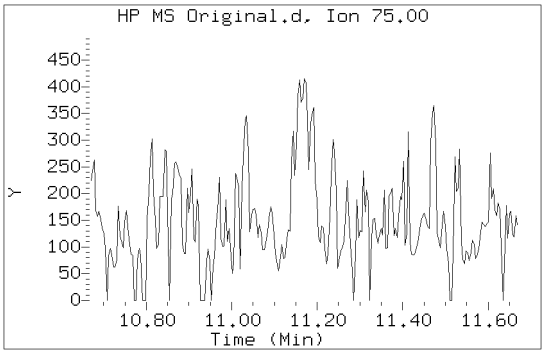
BEFORE
MASS
157
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



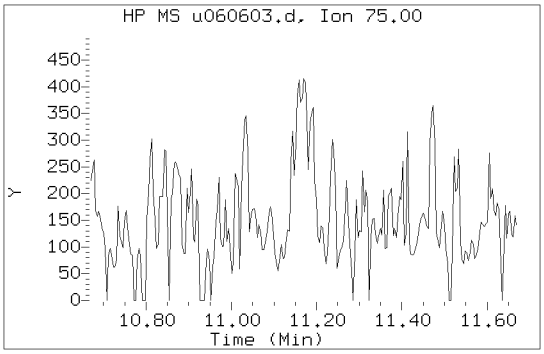
AFTER
MASS
157
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
75
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



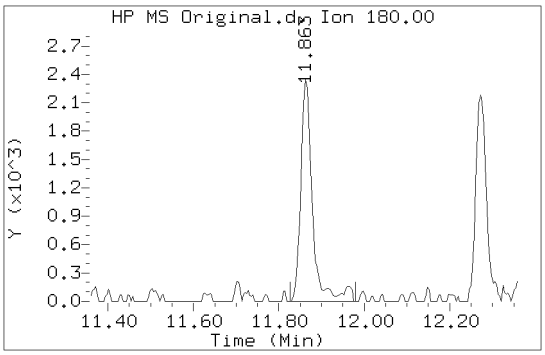
AFTER
MASS
75
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



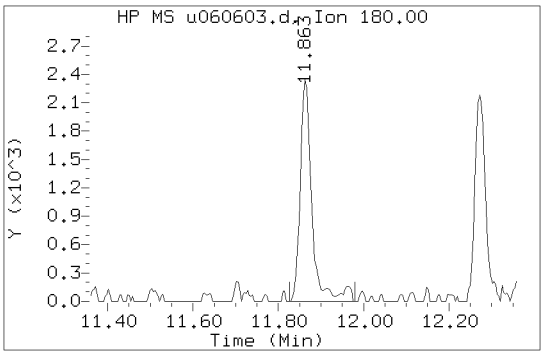
1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

BEFORE
MASS
180
AREA
4551
HEIGHT
2344
08-Jun-2023
14:56
linh
pham



AFTER
MASS
180
AREA
4551
HEIGHT
2344
21-Jun-2023
13:47
linh
pha



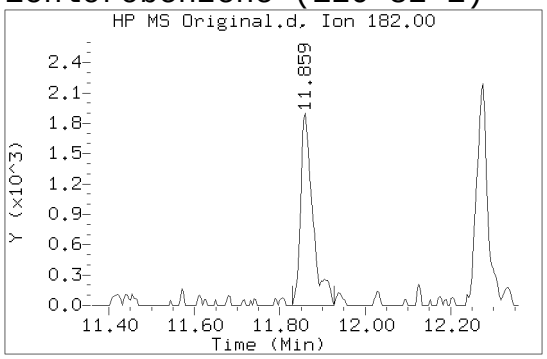
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

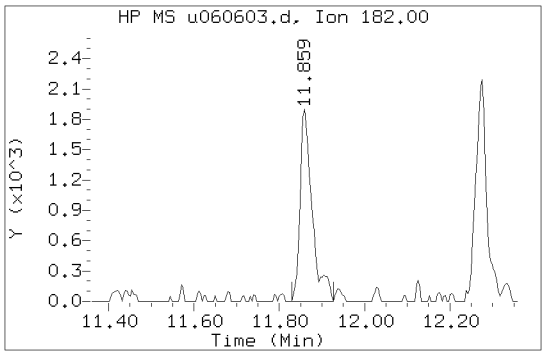
BEFORE

MASS
182
AREA
3811
HEIGHT
1898
08-Jun-2023
14:56
linh
pham



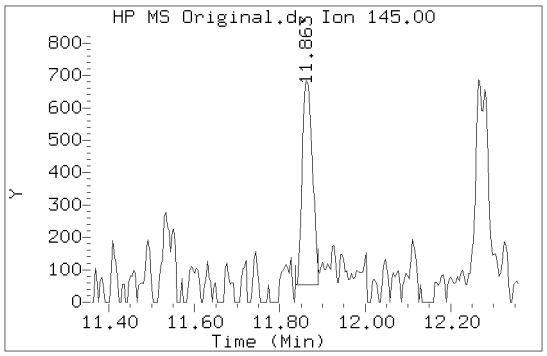
AFTER

MASS
182
AREA
3811
HEIGHT
1898
21-Jun-2023
13:47
linh
pha



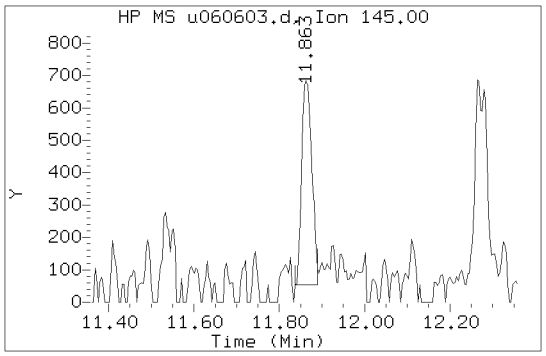
BEFORE

MASS
145
AREA
1065
HEIGHT
632
08-Jun-2023
14:56
linh
pham



AFTER

MASS
145
AREA
1065
HEIGHT
632
21-Jun-2023
13:47
linh
pha

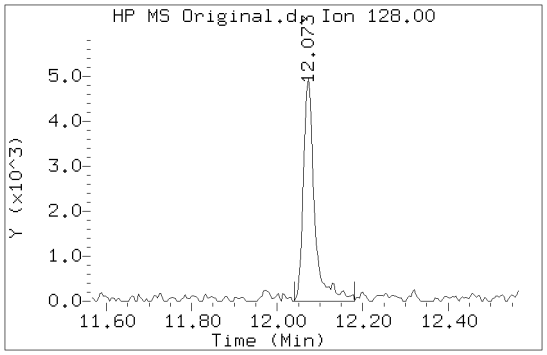


Naphthalene (91-20-3)

Reason Code:

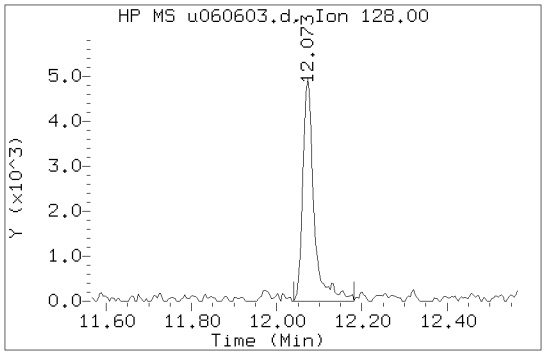
BEFORE

MASS
128
AREA
9156
HEIGHT
4939
08-Jun-2023
14:56
linh
pham



AFTER

MASS
128
AREA
9156
HEIGHT
4939
21-Jun-2023
13:47
linh
pha

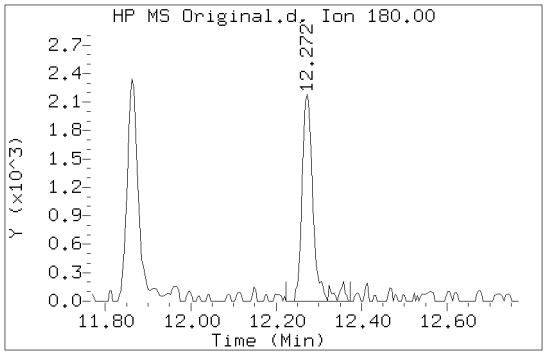


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

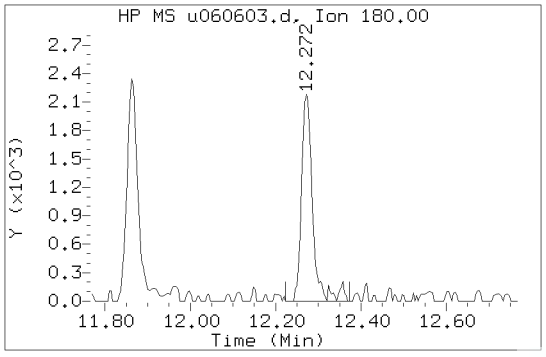
BEFORE

MASS
180
AREA
4090
HEIGHT
2185
08-Jun-2023
14:56
linh
pham



AFTER

MASS
180
AREA
4090
HEIGHT
2185
21-Jun-2023
13:47
linh
pha



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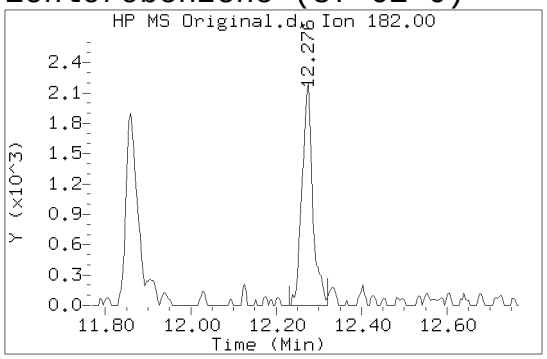
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

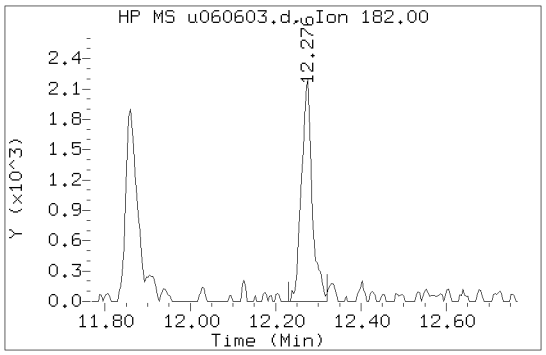
BEFORE

MASS
182
AREA
3923
HEIGHT
2191
08-Jun-2023
14:56
linh
pham



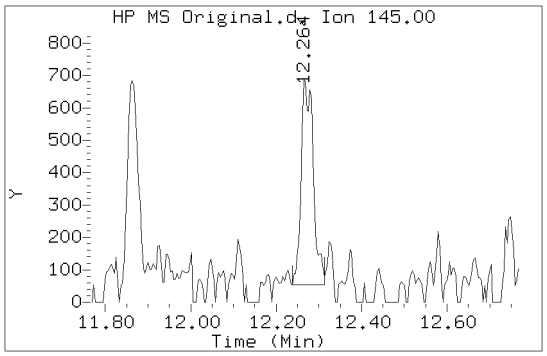
AFTER

MASS
182
AREA
3923
HEIGHT
2191
21-Jun-2023
13:47
linh
pha



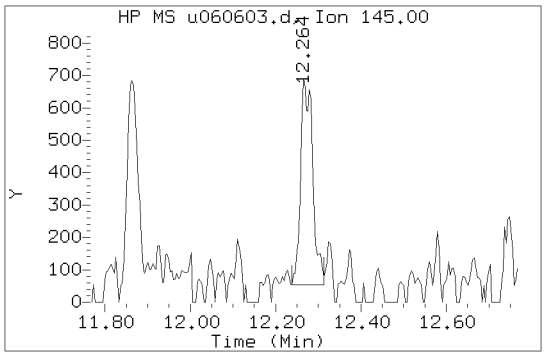
BEFORE

MASS
145
AREA
1275
HEIGHT
633
08-Jun-2023
14:56
linh
pham



AFTER

MASS
145
AREA
1275
HEIGHT
633
21-Jun-2023
13:47
linh
pha

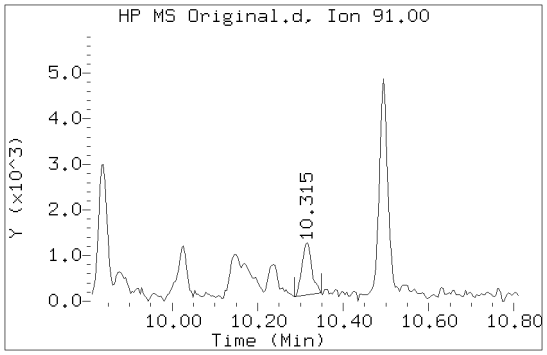


Benzyl Chloride (100-44-7)

Reason Code:

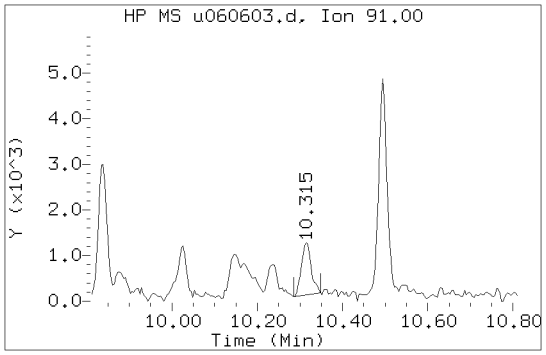
BEFORE

MASS
91
AREA
1867
HEIGHT
1136
08-Jun-2023
14:56
linh
pham



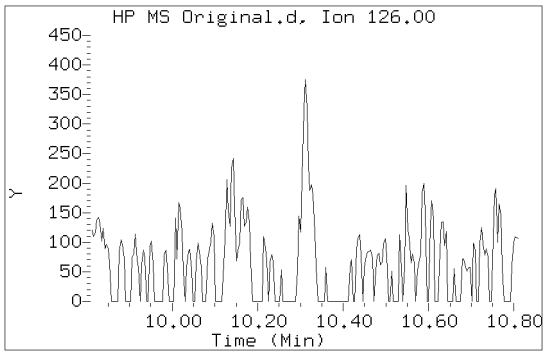
AFTER

MASS
91
AREA
1867
HEIGHT
1136
21-Jun-2023
13:47
linh
pha



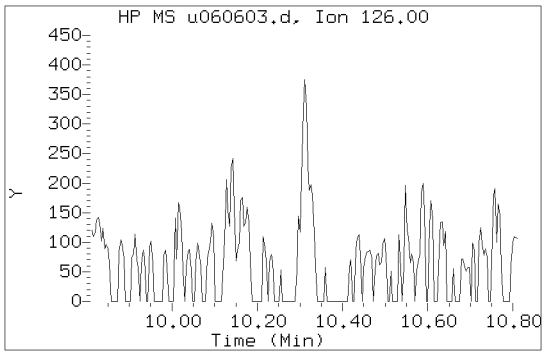
BEFORE

MASS
126
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
126
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



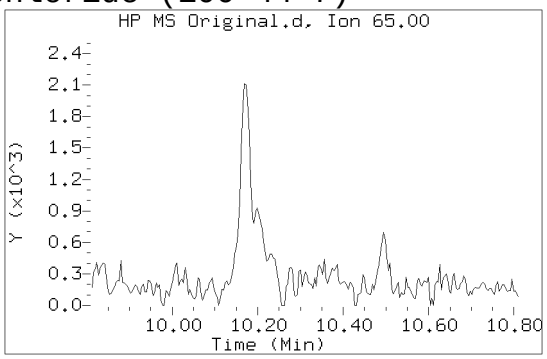
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Benzyl Chloride (100-44-7)

Reason Code:

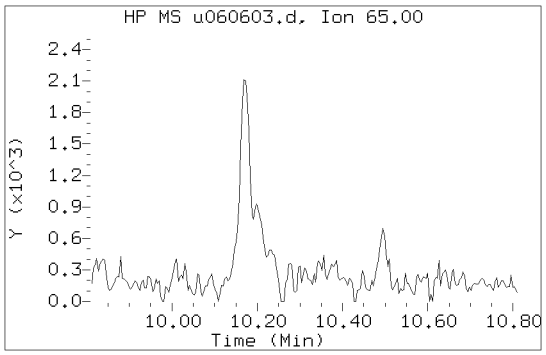
BEFORE

MASS
65
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
65
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

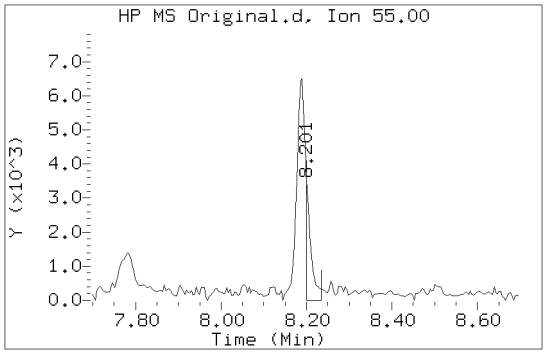


1-Chlorohexane (544-10-5)

Reason Code:

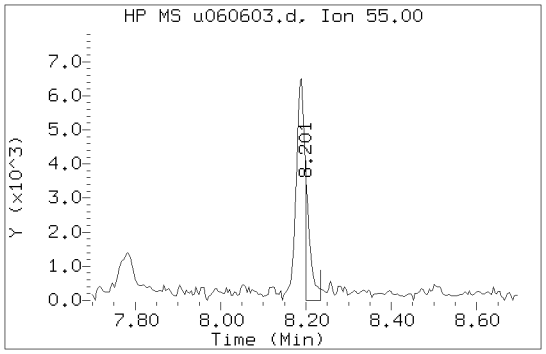
BEFORE

MASS
55
AREA
2785
HEIGHT
3524
08-Jun-2023
14:56
linh
pham



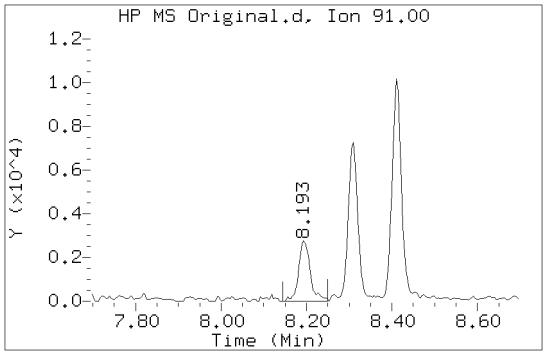
AFTER

MASS
55
AREA
2785
HEIGHT
3524
21-Jun-2023
13:47
linh
pha



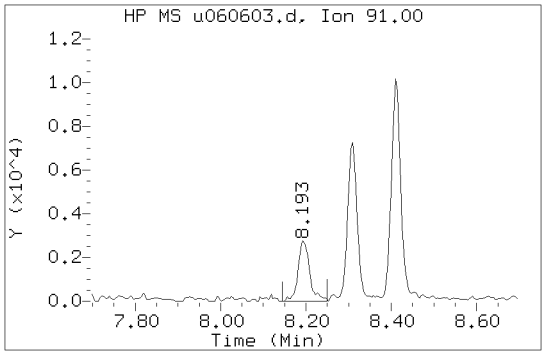
BEFORE

MASS
91
AREA
5394
HEIGHT
2762
08-Jun-2023
14:56
linh
pham



AFTER

MASS
91
AREA
5394
HEIGHT
2762
21-Jun-2023
13:47
linh
pha

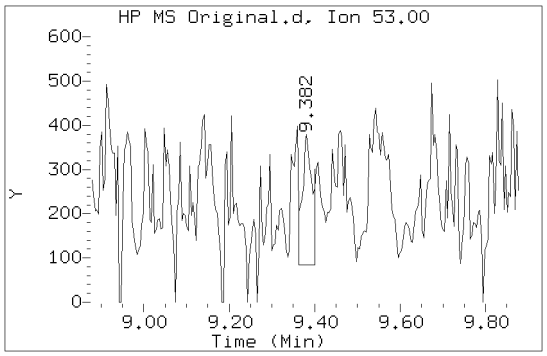


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

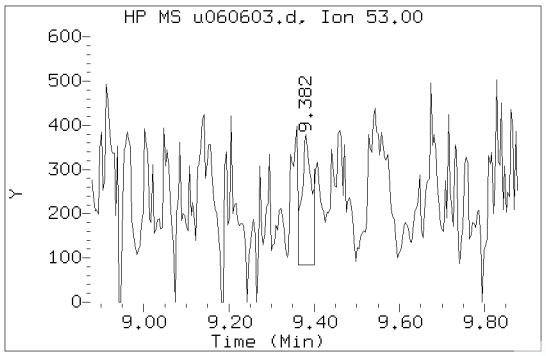
BEFORE

MASS
53
AREA
485
HEIGHT
296
08-Jun-2023
14:56
linh
pham



AFTER

MASS
53
AREA
485
HEIGHT
296
21-Jun-2023
13:47
linh
pha



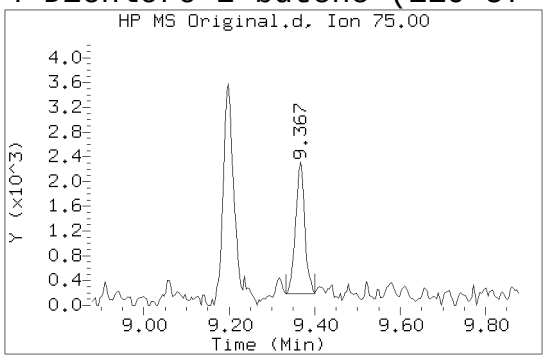
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

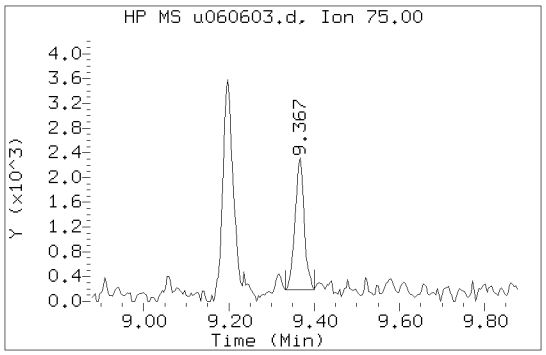
BEFORE

MASS
75
AREA
3241
HEIGHT
2140
08-Jun-2023
14:56
linh
pham



AFTER

MASS
75
AREA
3241
HEIGHT
2140
21-Jun-2023
13:47
linh
pha

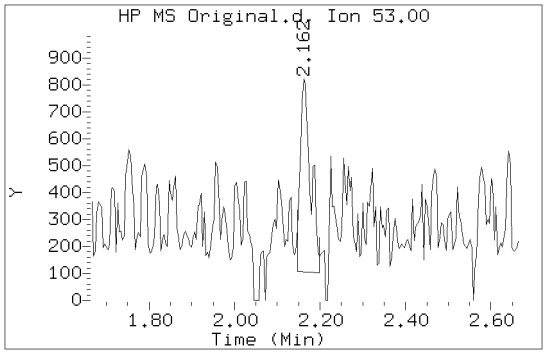


Chloroprene (126-99-8)

Reason Code:

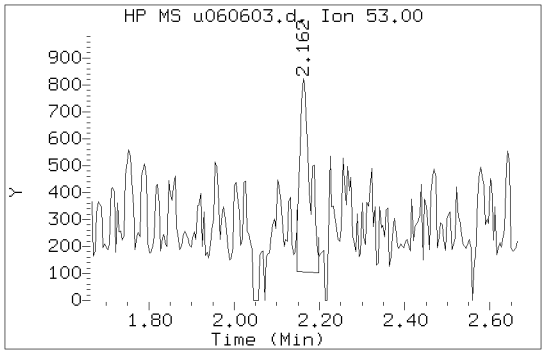
BEFORE

MASS
53
AREA
1260
HEIGHT
717
08-Jun-2023
14:56
linh
pham



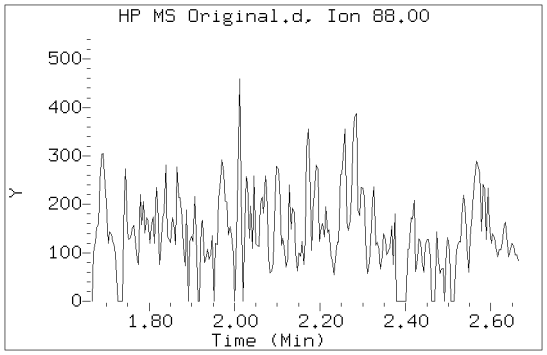
AFTER

MASS
53
AREA
1260
HEIGHT
717
21-Jun-2023
13:47
linh
pha



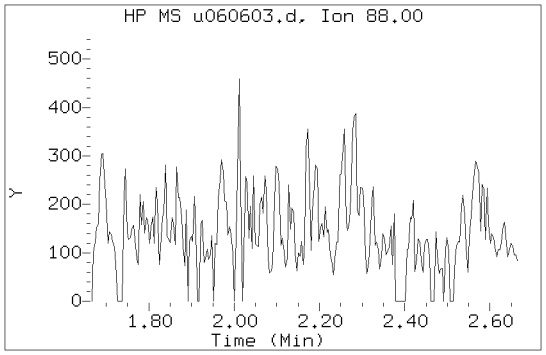
BEFORE

MASS
88
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

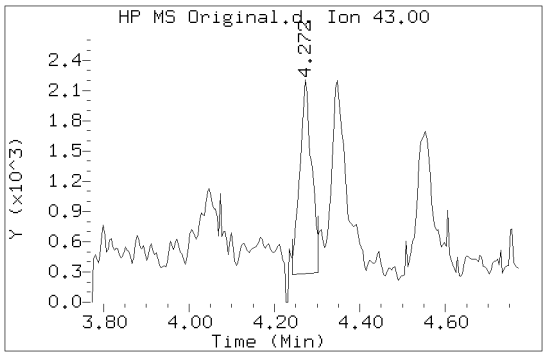


Ethyl Acetate (141-78-6)

Reason Code:

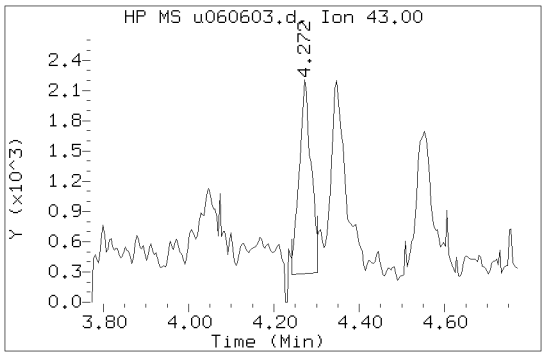
BEFORE

MASS
43
AREA
3781
HEIGHT
1922
08-Jun-2023
14:56
linh
pham



AFTER

MASS
43
AREA
3781
HEIGHT
1922
21-Jun-2023
13:47
linh
pha

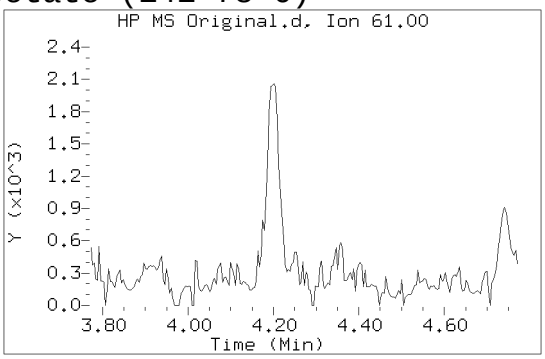


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

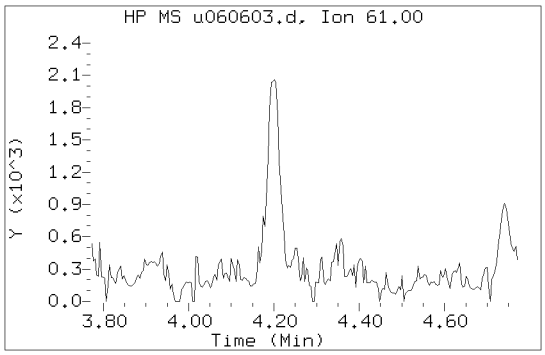
Ethyl Acetate (141-78-6)

Reason Code:

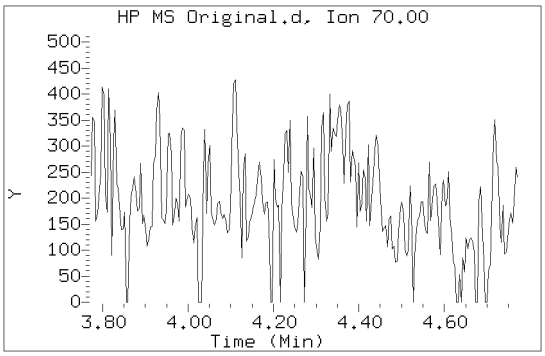
BEFORE
MASS
61
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



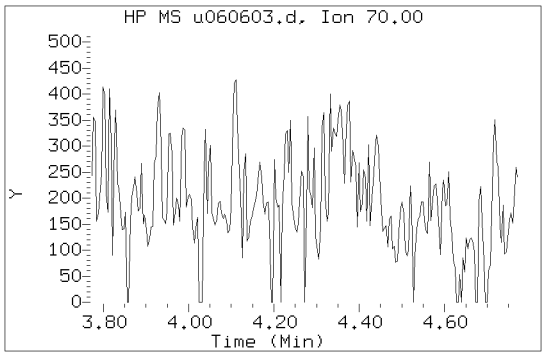
AFTER
MASS
61
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
70
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



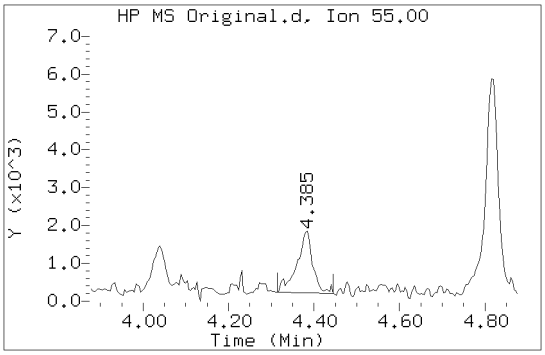
AFTER
MASS
70
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



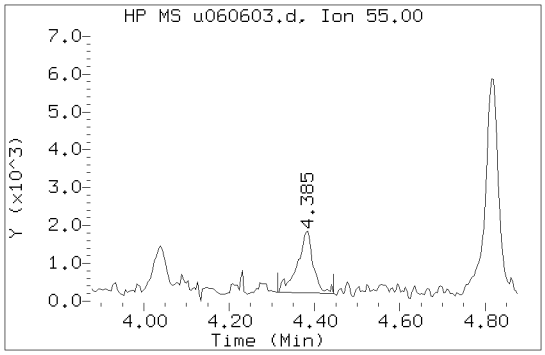
Methyl Acrylate (96-33-3)

Reason Code:

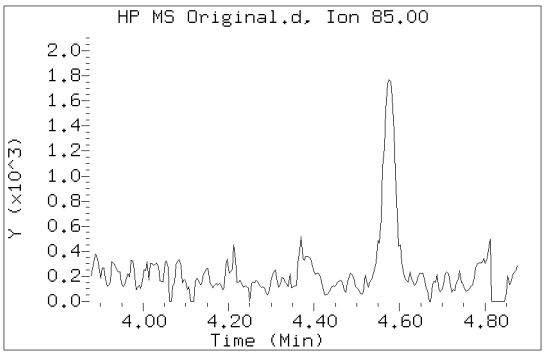
BEFORE
MASS
55
AREA
4302
HEIGHT
1632
08-Jun-2023
14:56
linh
pham



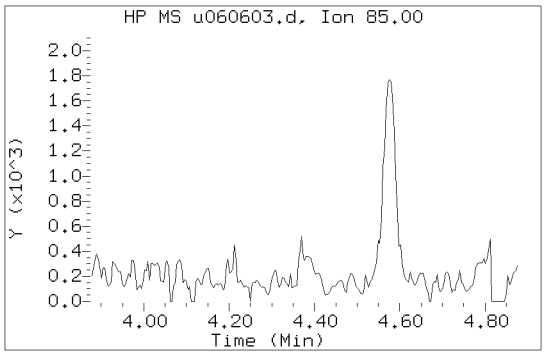
AFTER
MASS
55
AREA
4302
HEIGHT
1632
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
85
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER
MASS
85
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



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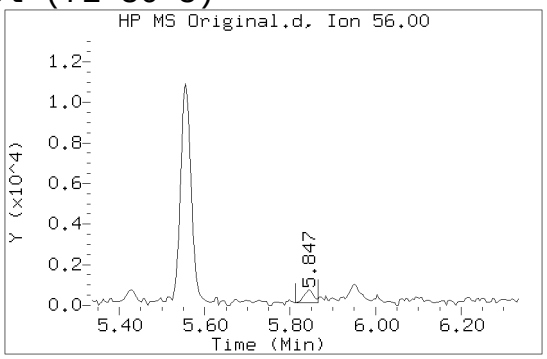
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

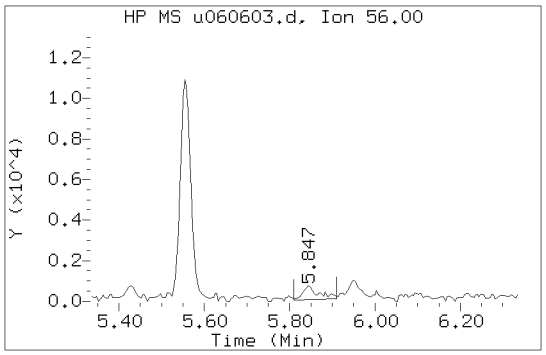
n-Butanol (71-36-3)

Reason Code:

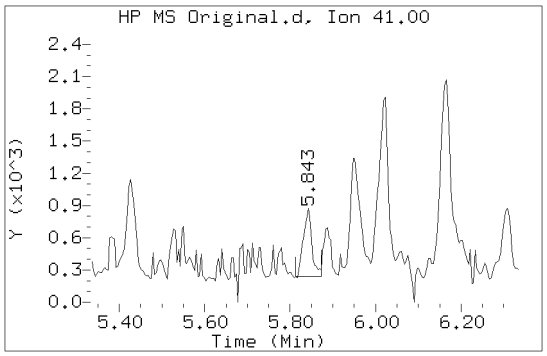
BEFORE
MASS
56
AREA
1032
HEIGHT
628
08-Jun-2023
14:56
linh
pham



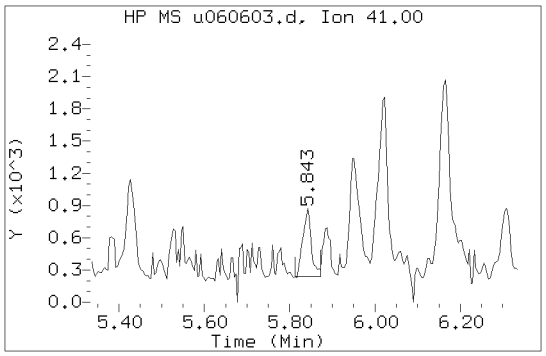
AFTER
MASS
56
AREA
1746
HEIGHT
662
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
41
AREA
903
HEIGHT
633
08-Jun-2023
14:56
linh
pham



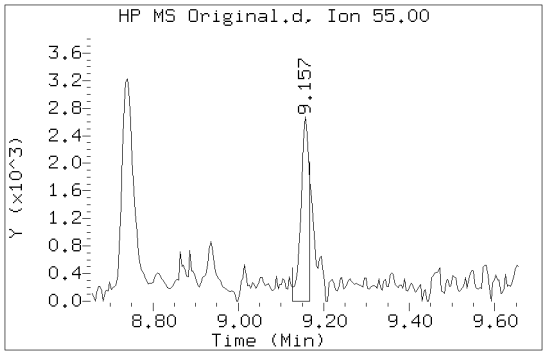
AFTER
MASS
41
AREA
903
HEIGHT
633
21-Jun-2023
13:47
linh
pha



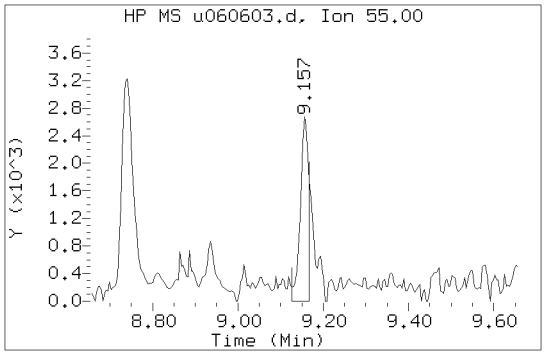
Cyclohexanone (108-94-1)

Reason Code:

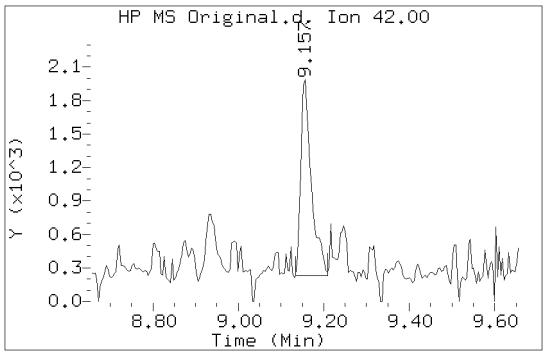
BEFORE
MASS
55
AREA
3642
HEIGHT
2680
08-Jun-2023
14:56
linh
pham



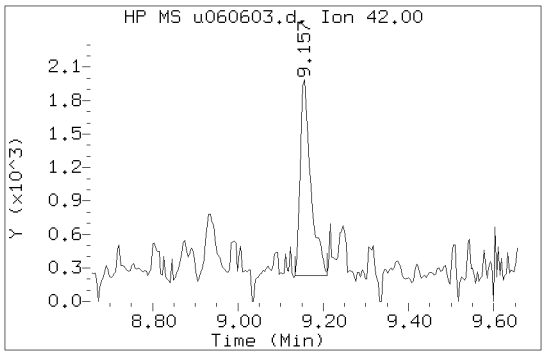
AFTER
MASS
55
AREA
3642
HEIGHT
2680
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
42
AREA
3088
HEIGHT
1757
08-Jun-2023
14:56
linh
pham



AFTER
MASS
42
AREA
3088
HEIGHT
1757
21-Jun-2023
13:47
linh
pha



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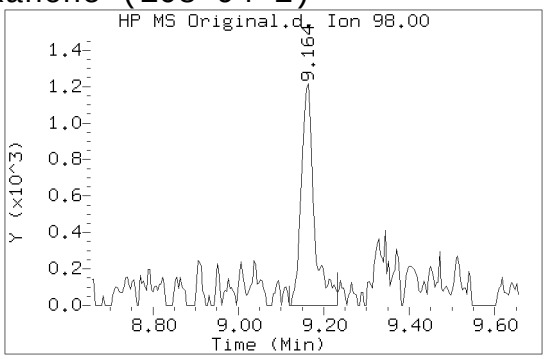
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Cyclohexanone (108-94-1)

Reason Code:

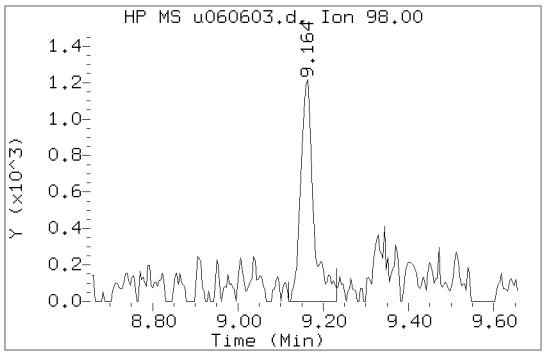
BEFORE

MASS
98
AREA
2606
HEIGHT
1216
08-Jun-2023
14:56
linh
pham



AFTER

MASS
98
AREA
2606
HEIGHT
1216
21-Jun-2023
13:47
linh
pha

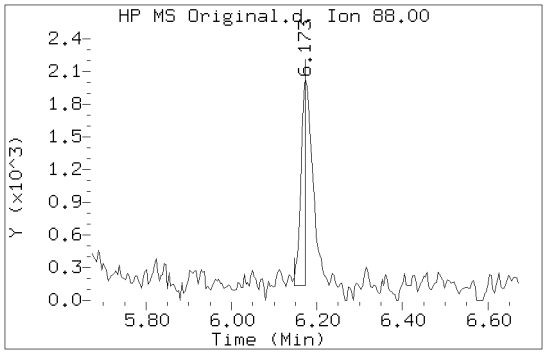


1,4-Dioxane ()

Reason Code:

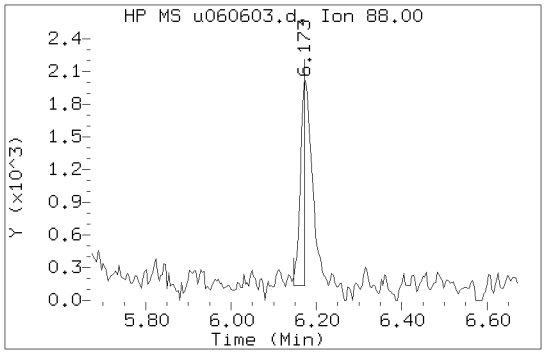
BEFORE

MASS
88
AREA
1567
HEIGHT
1901
08-Jun-2023
14:56
linh
pham



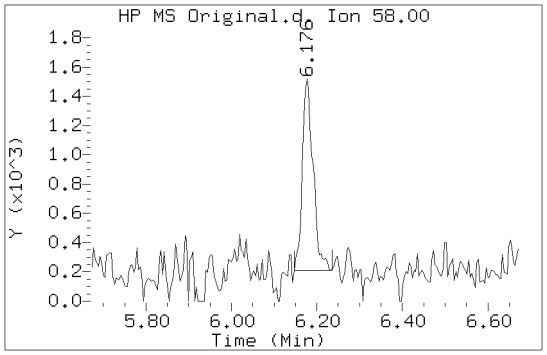
AFTER

MASS
88
AREA
1567
HEIGHT
1901
21-Jun-2023
13:47
linh
pha



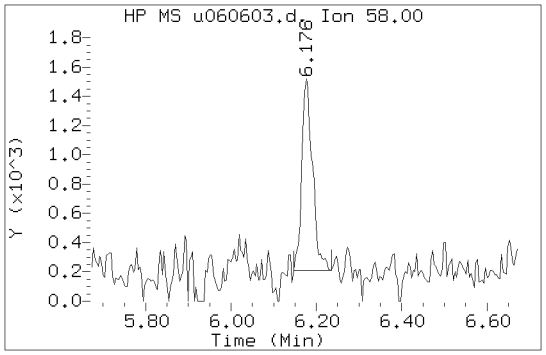
BEFORE

MASS
58
AREA
2344
HEIGHT
1308
08-Jun-2023
14:56
linh
pham



AFTER

MASS
58
AREA
2344
HEIGHT
1308
21-Jun-2023
13:47
linh
pha

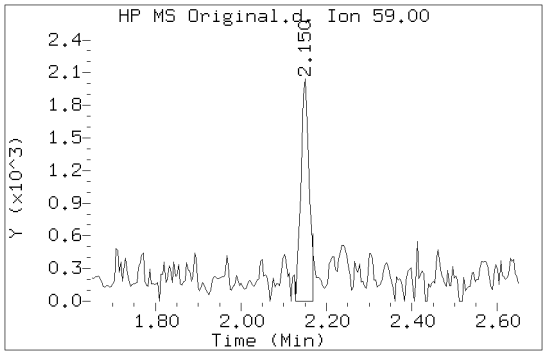


Diethyl ether (60-29-7)

Reason Code:

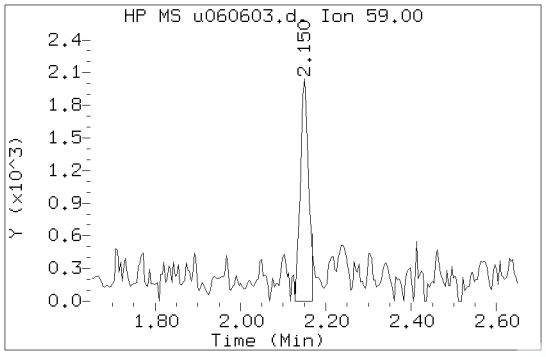
BEFORE

MASS
59
AREA
2812
HEIGHT
2042
08-Jun-2023
14:56
linh
pham



AFTER

MASS
59
AREA
2812
HEIGHT
2042
21-Jun-2023
13:47
linh
pha

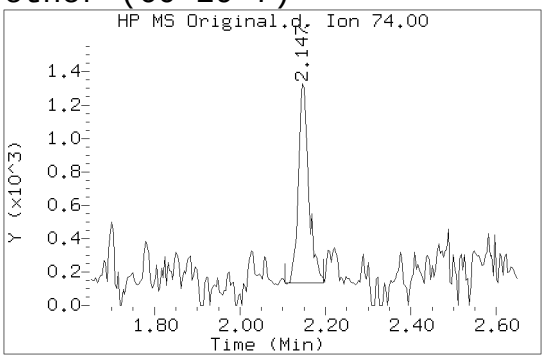


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Diethyl ether (60-29-7)

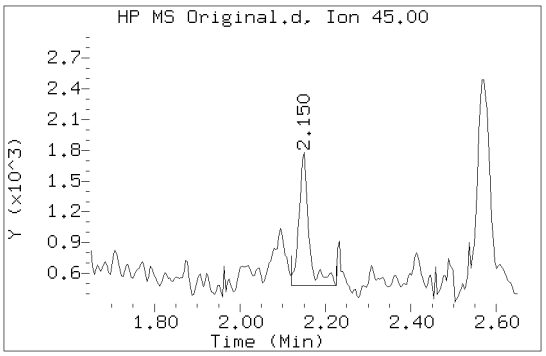
BEFORE

MASS
74
AREA
2051
HEIGHT
1194
08-Jun-2023
14:56
linh
pham



BEFORE

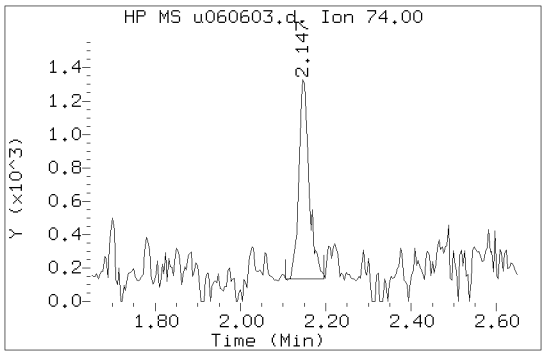
MASS
45
AREA
2149
HEIGHT
1297
08-Jun-2023
14:56
linh
pham



Reason Code:

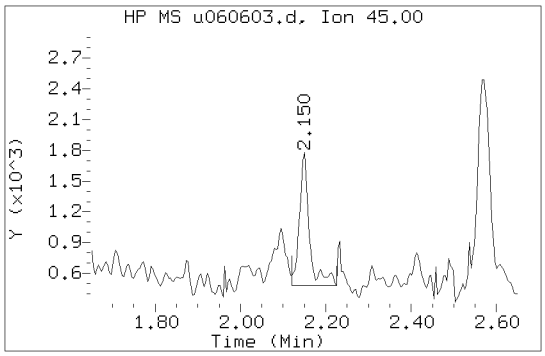
AFTER

MASS
74
AREA
2051
HEIGHT
1194
21-Jun-2023
13:47
linh
pha



AFTER

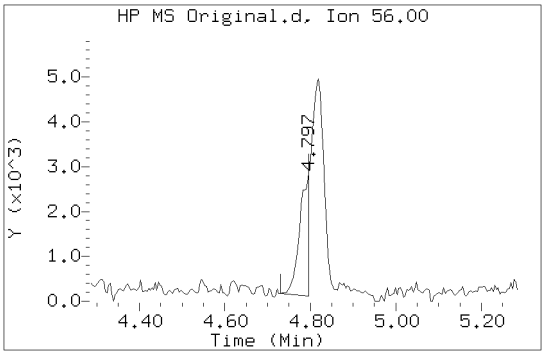
MASS
45
AREA
2149
HEIGHT
1297
21-Jun-2023
13:47
linh
pha



Cyclohexane (110-82-7)

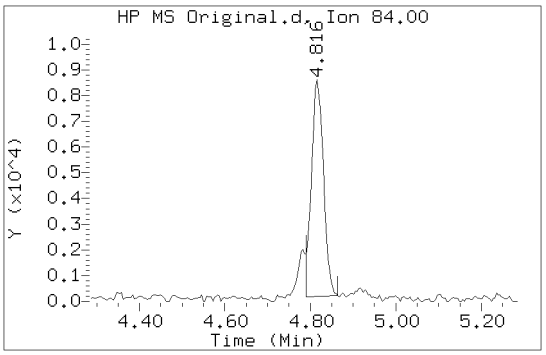
BEFORE

MASS
56
AREA
4345
HEIGHT
2735
08-Jun-2023
14:56
linh
pham



BEFORE

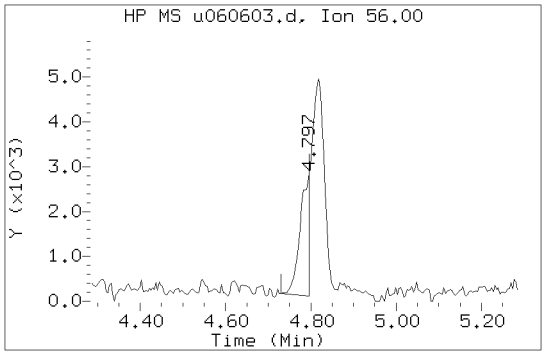
MASS
84
AREA
16696
HEIGHT
8414
08-Jun-2023
14:56
linh
pham



Reason Code:

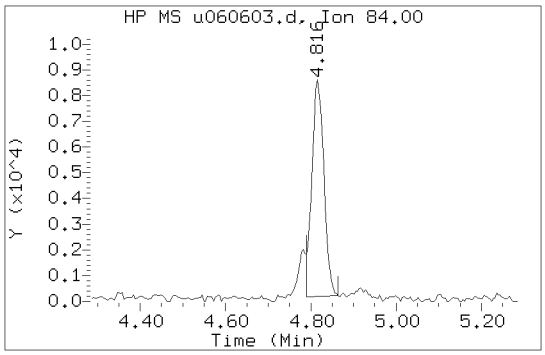
AFTER

MASS
56
AREA
4345
HEIGHT
2735
21-Jun-2023
13:47
linh
pha



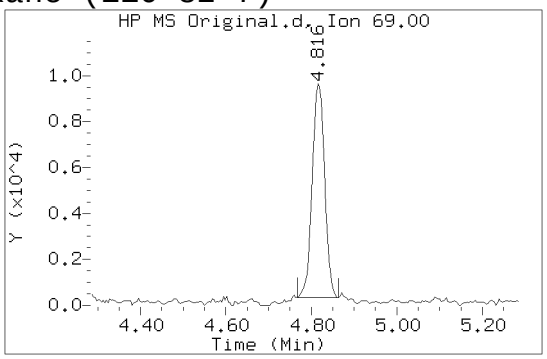
AFTER

MASS
84
AREA
16696
HEIGHT
8414
21-Jun-2023
13:47
linh
pha



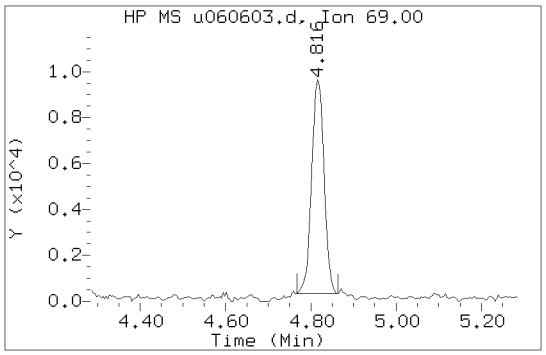
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Cyclohexane (110-82-7)



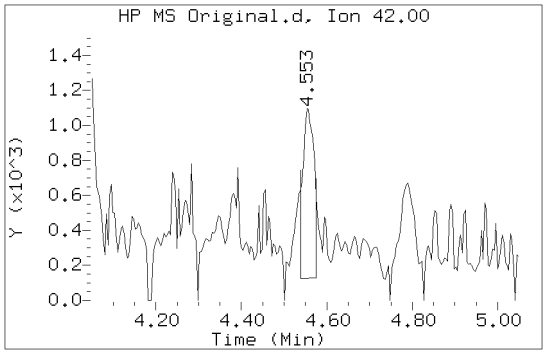
BEFORE
MASS
69
AREA
18963
HEIGHT
9317
08-Jun-2023
14:56
linh
pham

Reason Code:



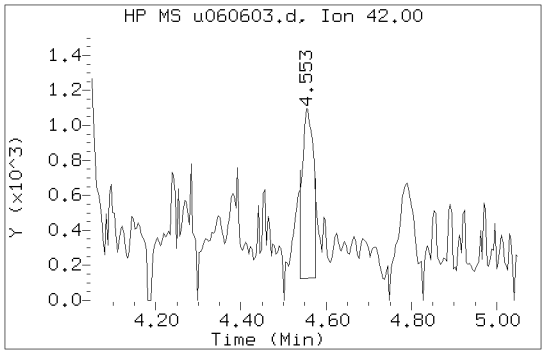
AFTER
MASS
69
AREA
18963
HEIGHT
9317
21-Jun-2023
13:47
linh
pha

Tetrahydrofuran (109-99-9)

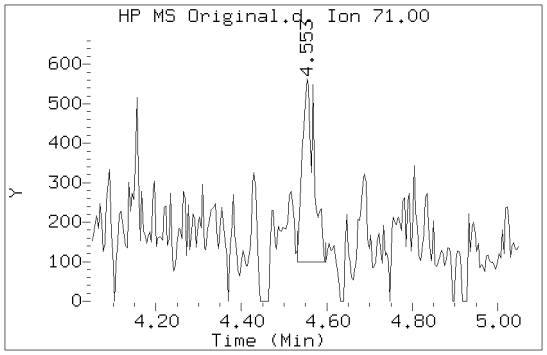


BEFORE
MASS
42
AREA
1846
HEIGHT
970
08-Jun-2023
14:56
linh
pham

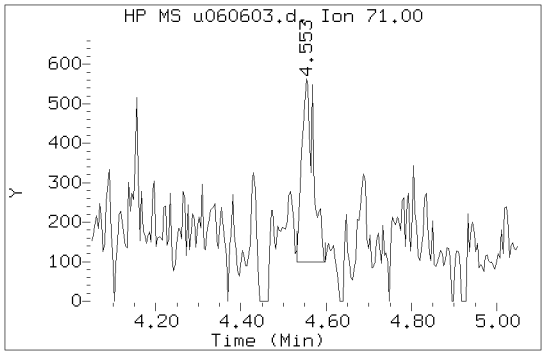
Reason Code:



AFTER
MASS
42
AREA
1846
HEIGHT
970
21-Jun-2023
13:47
linh
pha

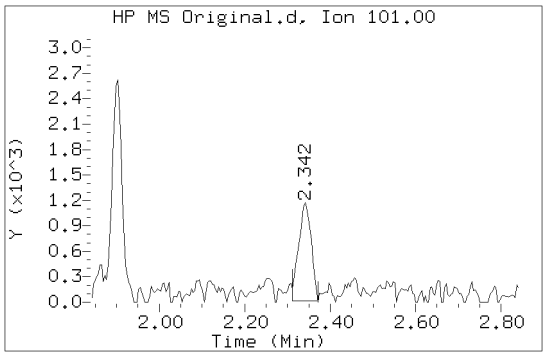


BEFORE
MASS
71
AREA
900
HEIGHT
464
08-Jun-2023
14:56
linh
pham



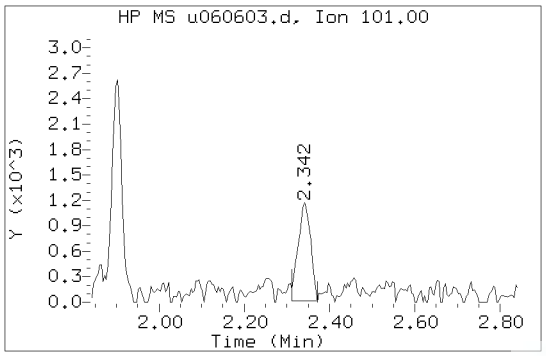
AFTER
MASS
71
AREA
900
HEIGHT
464
21-Jun-2023
13:47
linh
pha

Freon TF (76-13-1)



BEFORE
MASS
101
AREA
2391
HEIGHT
1159
08-Jun-2023
14:56
linh
pham

Reason Code:



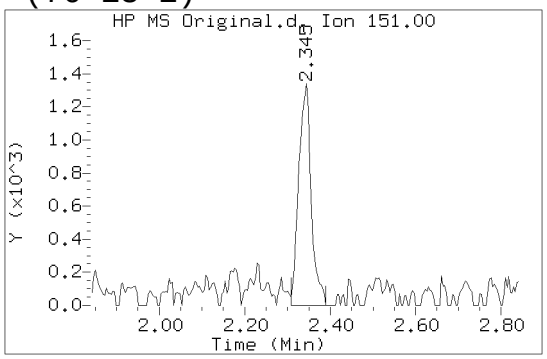
AFTER
MASS
101
AREA
2391
HEIGHT
1159
21-Jun-2023
13:47
linh
pha

Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Freon TF (76-13-1)

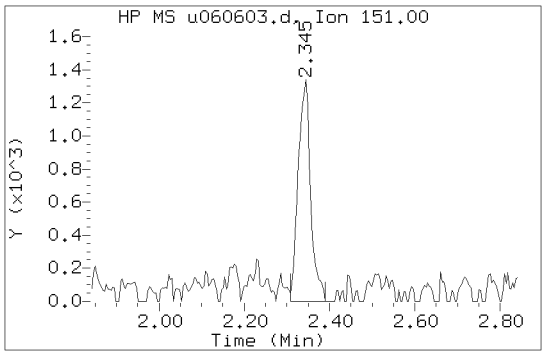
BEFORE

MASS
151
AREA
2754
HEIGHT
1340
08-Jun-2023
14:56
linh
pham



AFTER

MASS
151
AREA
2754
HEIGHT
1340
21-Jun-2023
13:47
linh
pha

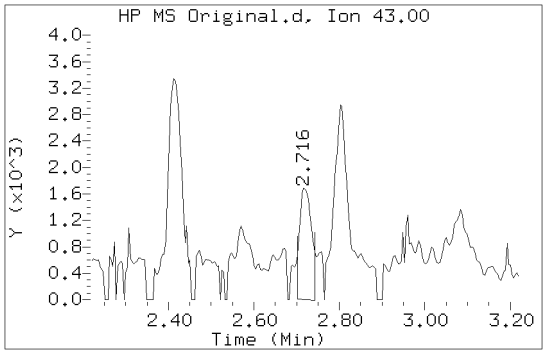


Reason Code:

Methyl Acetate (79-20-9)

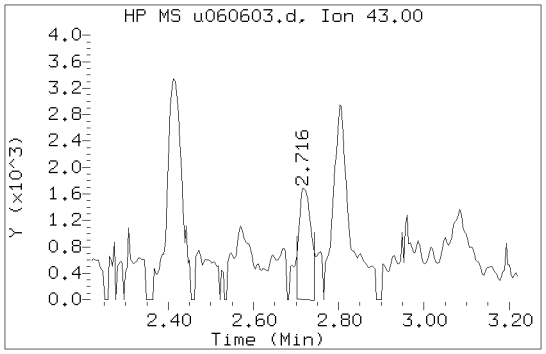
BEFORE

MASS
43
AREA
3375
HEIGHT
1684
08-Jun-2023
14:56
linh
pham



AFTER

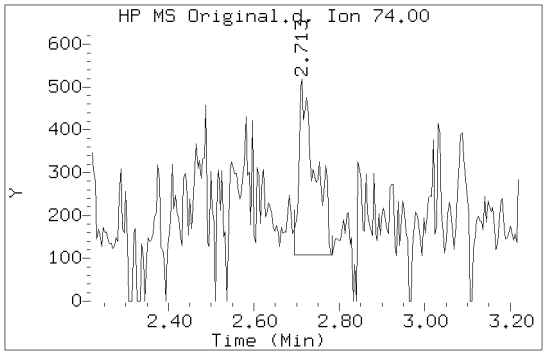
MASS
43
AREA
3375
HEIGHT
1684
21-Jun-2023
13:47
linh
pha



Reason Code:

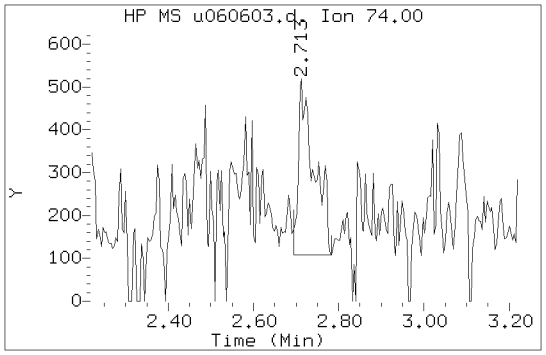
BEFORE

MASS
74
AREA
1069
HEIGHT
411
08-Jun-2023
14:56
linh
pham



AFTER

MASS
74
AREA
1069
HEIGHT
411
21-Jun-2023
13:47
linh
pha

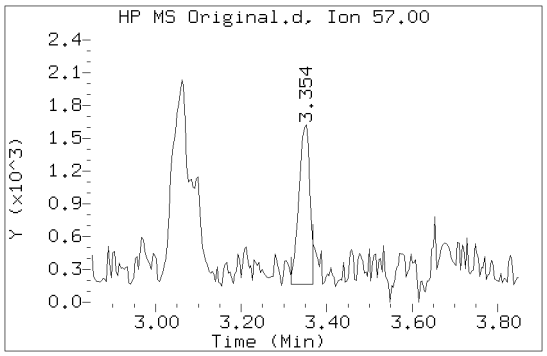


Reason Code:

Allyl alcohol (107-18-6)

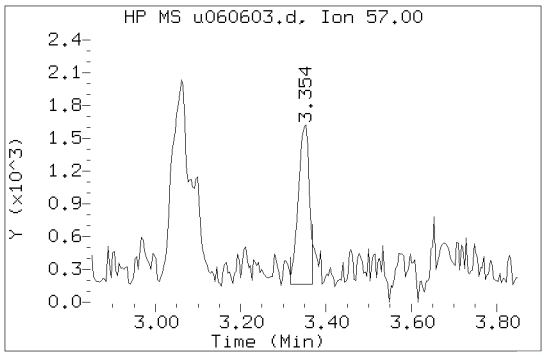
BEFORE

MASS
57
AREA
2691
HEIGHT
1461
08-Jun-2023
14:56
linh
pham



AFTER

MASS
57
AREA
2691
HEIGHT
1461
21-Jun-2023
13:47
linh
pha



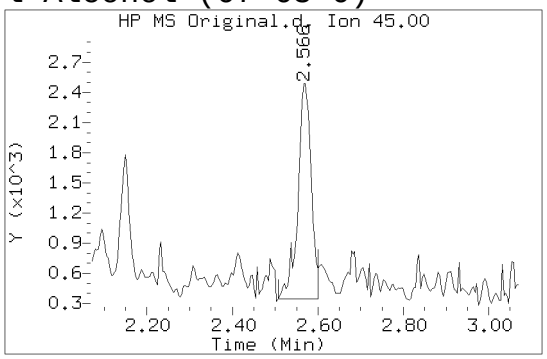
Reason Code:

Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

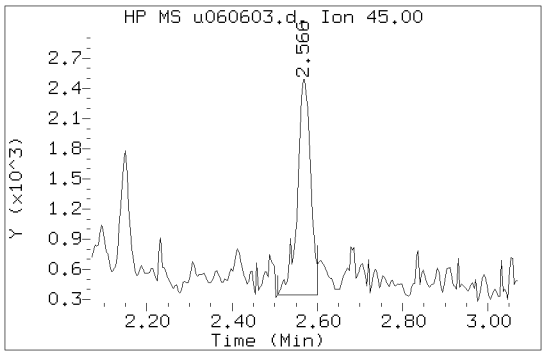
Isopropyl Alcohol (67-63-0)

Reason Code:

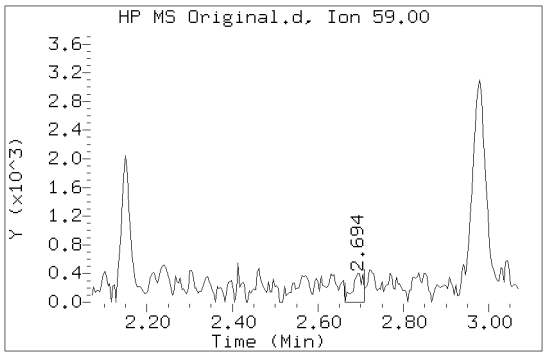
BEFORE
MASS
45
AREA
4735
HEIGHT
2141
08-Jun-2023
14:56
linh
pham



AFTER
MASS
45
AREA
4735
HEIGHT
2141
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
59
AREA
670
HEIGHT
403
08-Jun-2023
14:56
linh
pham



AFTER
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59
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670
HEIGHT
403
21-Jun-2023
13:47
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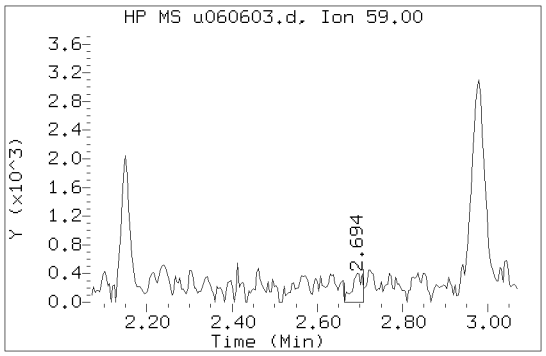

Ethanol (64-17-5)

Reason Code:

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AREA
929
HEIGHT
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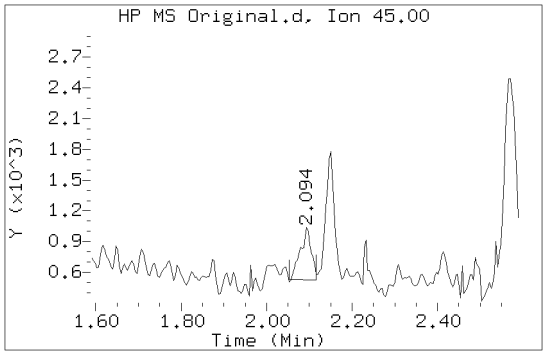
08-Jun-2023
14:56
linh
pham



AFTER
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21-Jun-2023
13:47
linh
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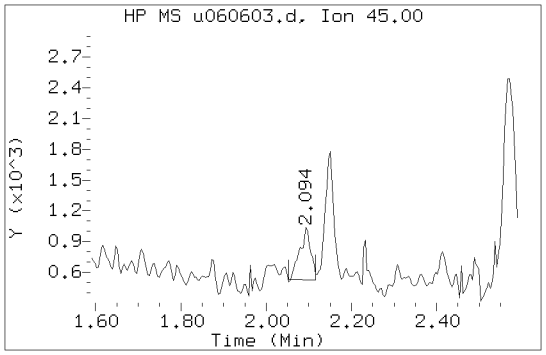

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0
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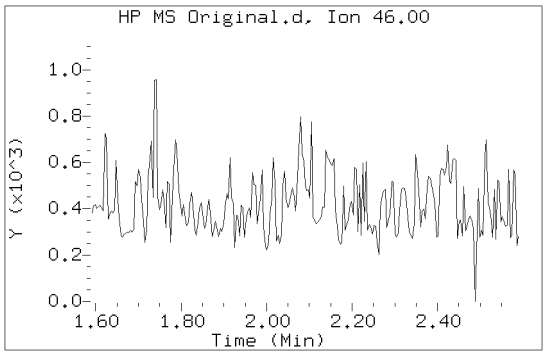

AFTER
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HEIGHT
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21-Jun-2023
13:47
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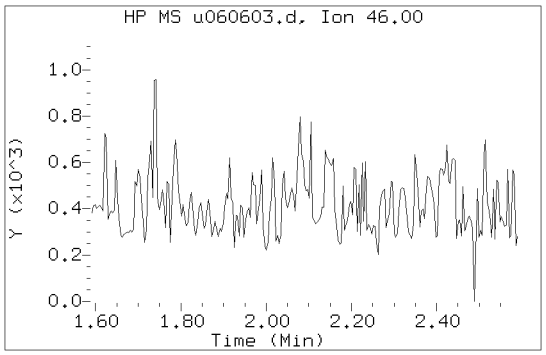

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InstruID : VOA9.i
LabSampID : VSTD000.5

Ethanol (64-17-5)

Reason Code:

BEFORE

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HEIGHT
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08-Jun-2023
14:56
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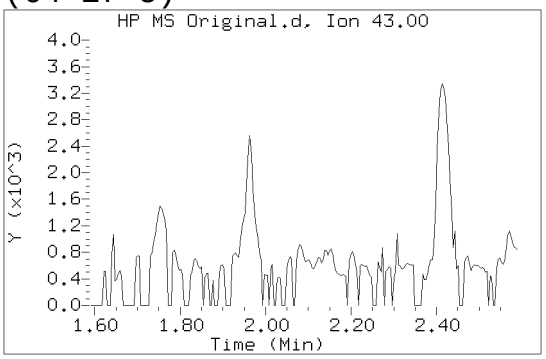

AFTER

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43
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HEIGHT
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21-Jun-2023
13:47
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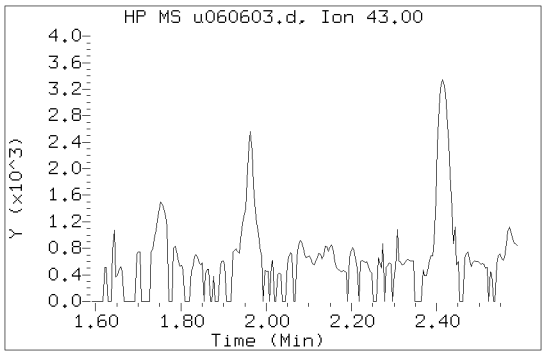

n-Butyl acetate (123-86-4)

Reason Code:

BEFORE

MASS
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AREA
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HEIGHT
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08-Jun-2023
14:56
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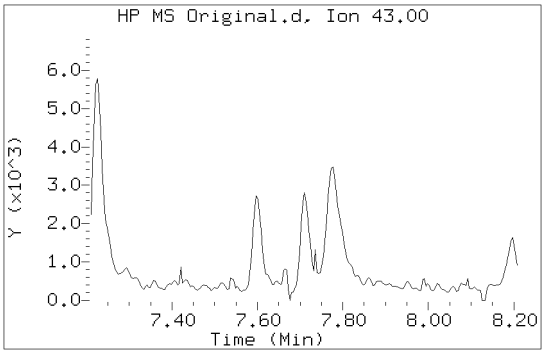

AFTER

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AREA
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HEIGHT
2763
21-Jun-2023
13:47
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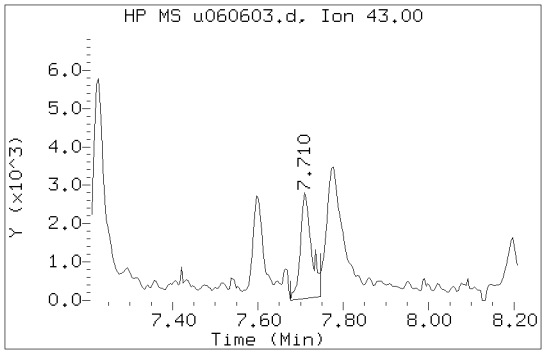

BEFORE

MASS
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AREA
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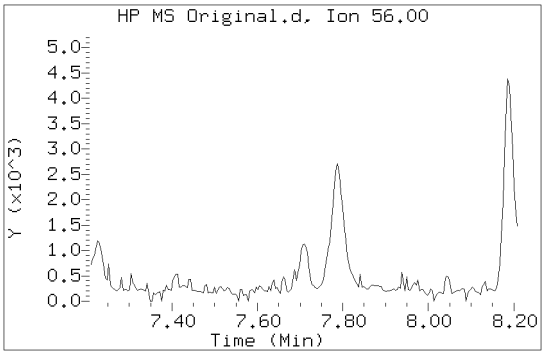
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
56
AREA
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HEIGHT
896
21-Jun-2023
13:47
linh
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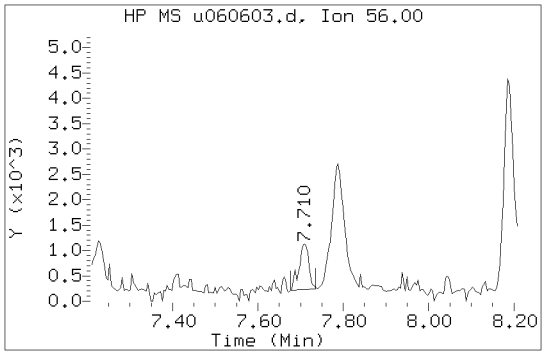

BEFORE

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08-Jun-2023
14:56
linh
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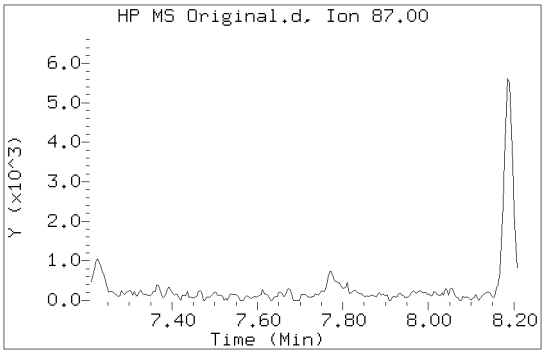

AFTER

MASS
87
AREA
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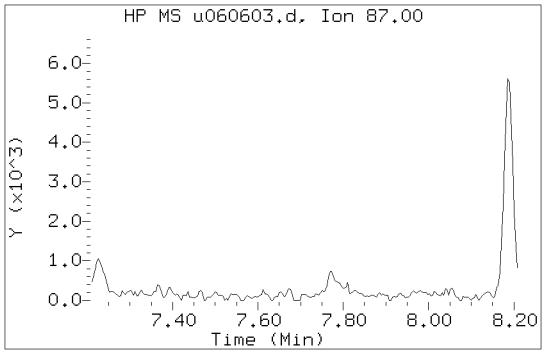
HEIGHT
0
21-Jun-2023
13:47
linh
pha



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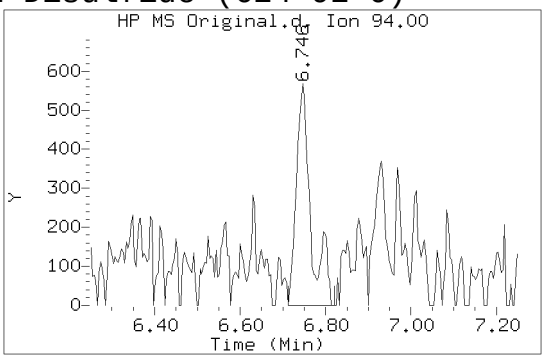
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

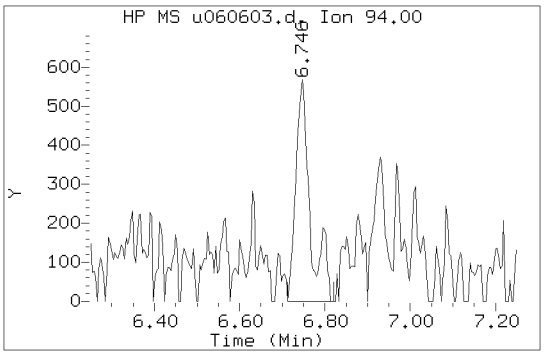
Dimethyl Disulfide (624-92-0)

Reason Code:

BEFORE
MASS
94
AREA
1341
HEIGHT
568
08-Jun-2023
14:56
linh
pham



AFTER
MASS
94
AREA
1341
HEIGHT
568
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
79
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
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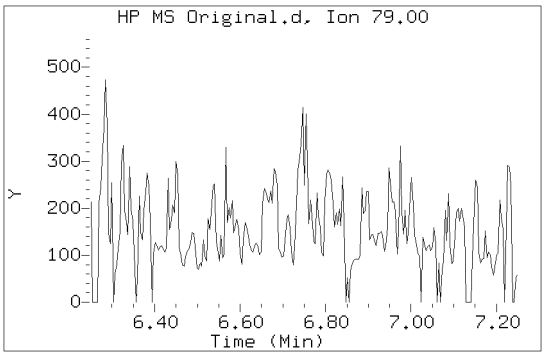

AFTER
MASS
79
AREA
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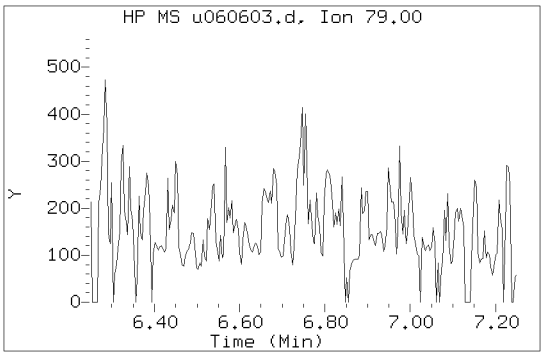
HEIGHT
0
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
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AREA
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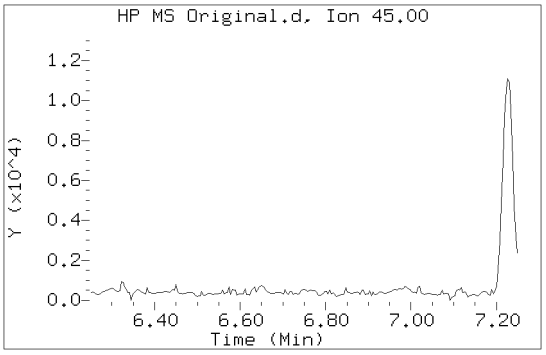
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER
MASS
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AREA
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HEIGHT
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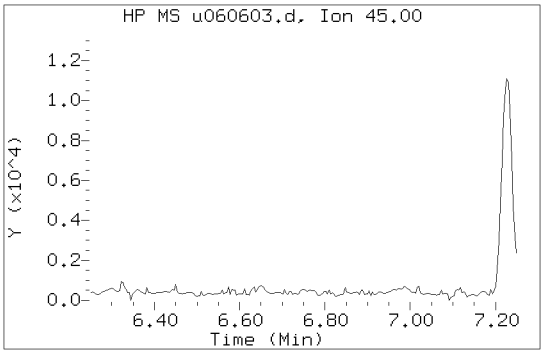
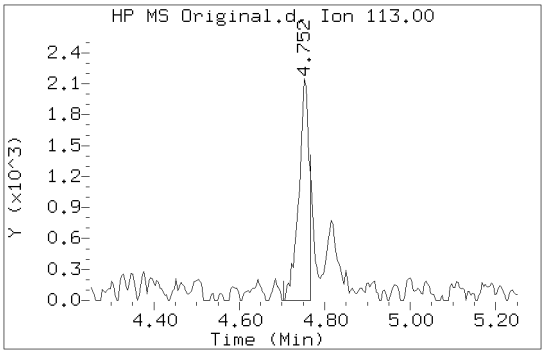
21-Jun-2023
13:47
linh
pha



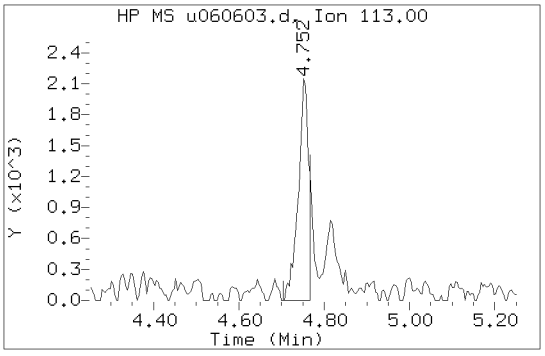
Dibromofluoromethane (1868-53-7)

Reason Code:

BEFORE
MASS
113
AREA
3644
HEIGHT
2149
08-Jun-2023
14:56
linh
pham



AFTER
MASS
113
AREA
3644
HEIGHT
2149
21-Jun-2023
13:47
linh
pha



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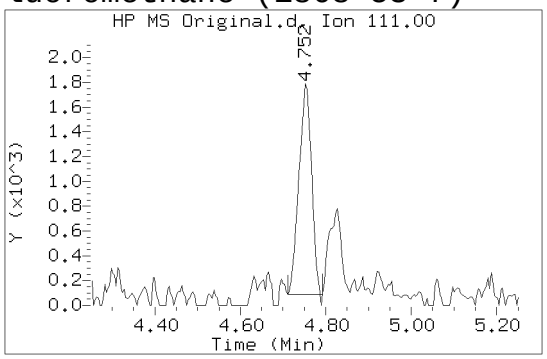
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Dibromofluoromethane (1868-53-7)

Reason Code:

BEFORE

MASS
111
AREA
3541
HEIGHT
1703
08-Jun-2023
14:56
linh
pham



AFTER

MASS
111
AREA
3541
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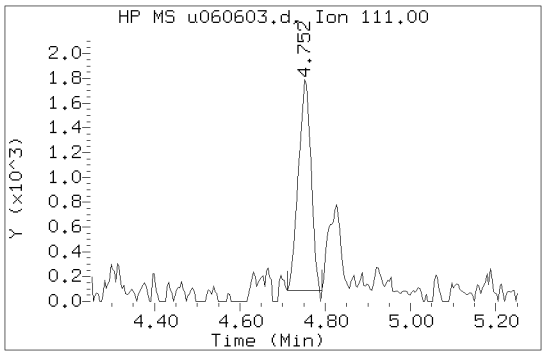
1703
21-Jun-2023
13:47
linh
pha



1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

BEFORE

MASS
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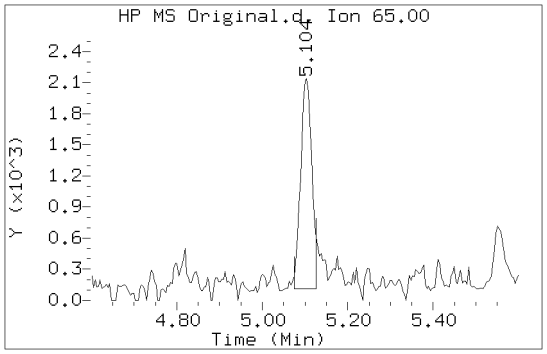
AREA
3795
HEIGHT
2029
08-Jun-2023
14:56
linh
pham



AFTER

MASS
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AREA
3795
HEIGHT
2029
21-Jun-2023
13:47
linh
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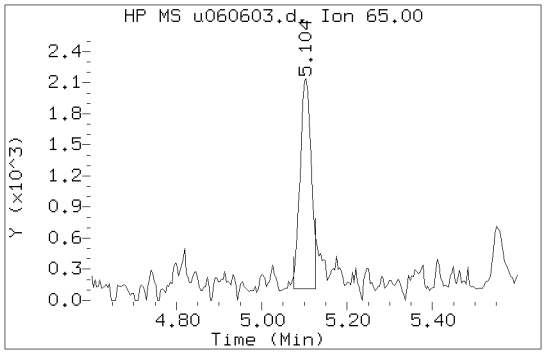

BEFORE

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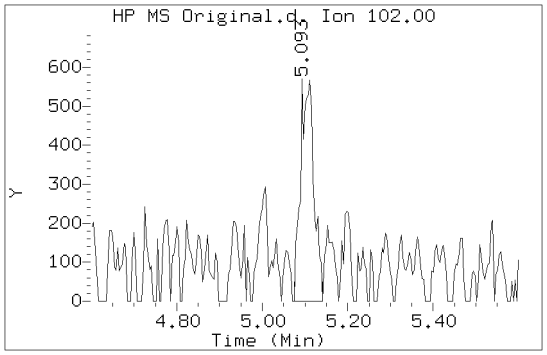
570
08-Jun-2023
14:56
linh
pham



AFTER

MASS
102
AREA
1254
HEIGHT
570
21-Jun-2023
13:47
linh
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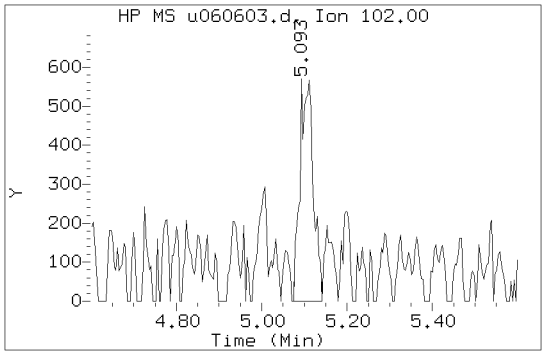
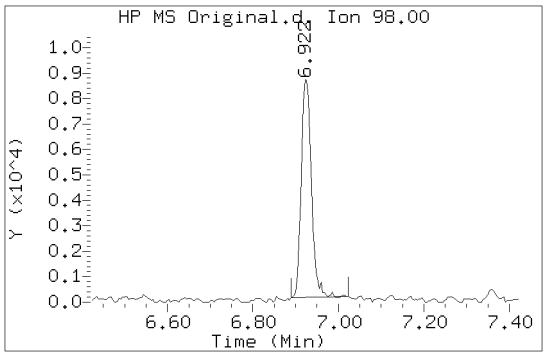


Toluene-d8 (2037-26-5)

Reason Code:

BEFORE

MASS
98
AREA
14408
HEIGHT
8549
08-Jun-2023
14:56
linh
pham



AFTER

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HEIGHT
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21-Jun-2023
13:47
linh
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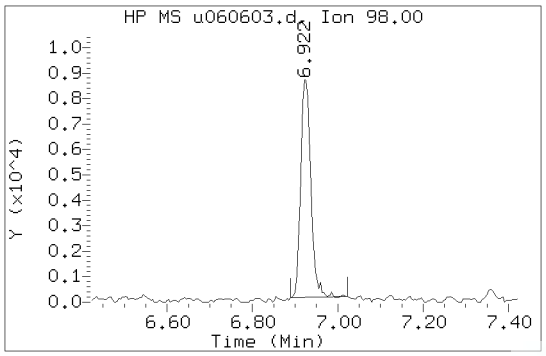

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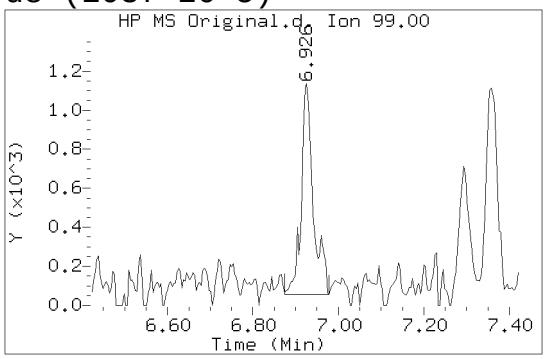
InstruID : VOA9.i
LabSampID : VSTD000.5

Toluene-d8 (2037-26-5)

BEFORE
MASS
99
AREA
2122
HEIGHT
1080
08-Jun-2023
14:56
linh
pham



Reason Code:

AFTER
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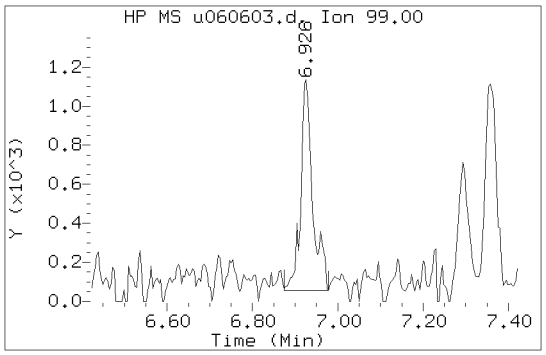
99
AREA
2122
HEIGHT
1080
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
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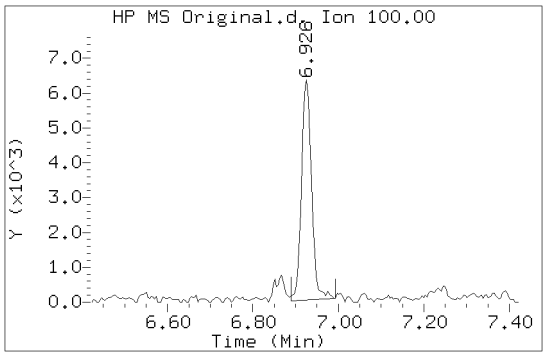
AREA
10558
HEIGHT
6311
08-Jun-2023
14:56
linh
pham



AFTER
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HEIGHT
6311
21-Jun-2023
13:47
linh
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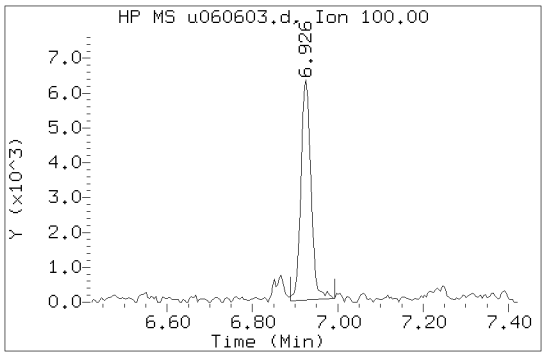

4-Bromofluorobenzene (460-00-4)

BEFORE
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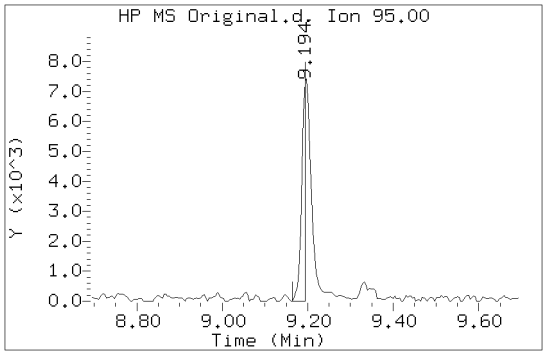
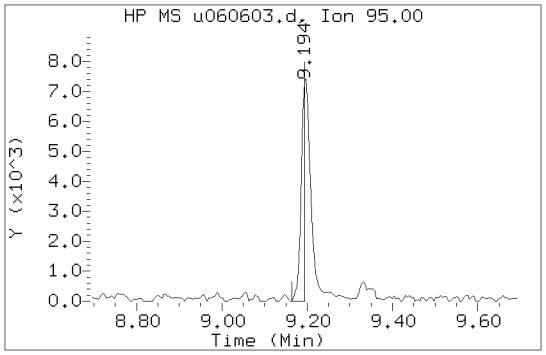
95
AREA
5007
HEIGHT
7327
08-Jun-2023
14:56
linh
pham

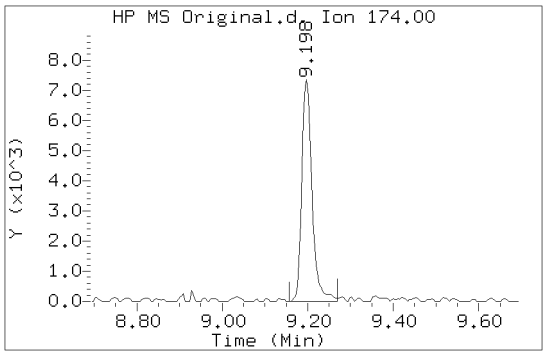


Reason Code:

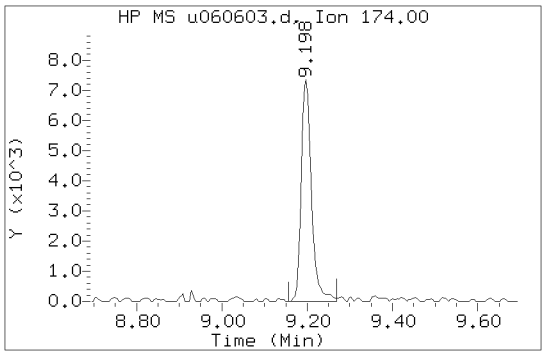
AFTER
MASS
95
AREA
5007
HEIGHT
7327
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
174
AREA
12552
HEIGHT
7353
08-Jun-2023
14:56
linh
pham



AFTER
MASS
174
AREA
12552
HEIGHT
7353
21-Jun-2023
13:47
linh
pha



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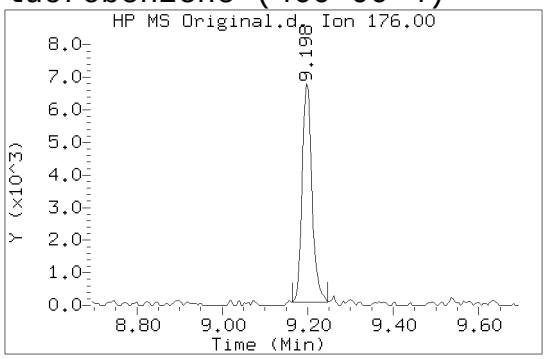
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

4-Bromofluorobenzene (460-00-4)

Reason Code:

BEFORE

MASS
176
AREA
10910
HEIGHT
6707
08-Jun-2023
14:56
linh
pham



AFTER

MASS
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AREA
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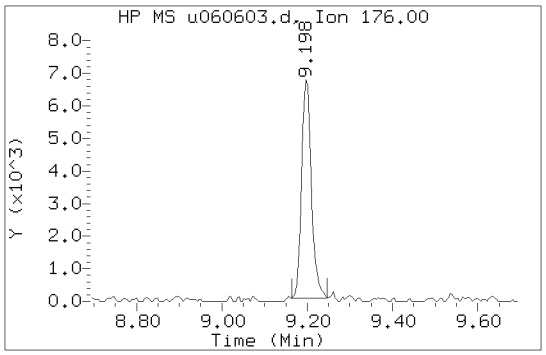
HEIGHT
6707
21-Jun-2023
13:47
linh
pha



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Report Date: 21-Jun-2023 13:47

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060606.D
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Inj Date : 06-JUN-2023 13:06
Operator : PC Inst ID: VOA9.i
Smp Info : VSTD005;VSTD005;1;5;
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
Meth Date : 21-Jun-2023 13:45 pcabasca Quant Type: ISTD
Cal Date : 06-JUN-2023 13:06 Cal File: U060606.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14

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)	661055	50.0000	
2 Dichlorodifluoromethane	85	1.156	1.156	(0.240)	31172	5.00000	5.17
3 Chloromethane	50	1.287	1.287	(0.268)	62455	5.00000	5.08
5 Vinyl Chloride	62	1.370	1.370	(0.285)	36493	5.00000	5.21
6 Bromomethane	94	1.613	1.613	(0.335)	23995	5.00000	5.08
7 Chloroethane	64	1.692	1.692	(0.352)	23603	5.00000	5.01
8 Trichlorofluoromethane	101	1.887	1.887	(0.392)	41967	5.00000	5.22
9 Acrolein	56	2.258	2.258	(0.469)	3393	10.0000	9.67(aM)
10 Acetone	43	2.401	2.401	(0.499)	31915	10.0000	9.15
11 1,1-Dichloroethene	96	2.326	2.326	(0.483)	25586	5.00000	5.09
15 Iodomethane	142	2.461	2.461	(0.512)	10875	10.0000	12.46(M)
16 Acrylonitrile	53	3.060	3.060	(0.636)	26401	10.0000	10.76
17 Methylene Chloride	84	2.787	2.787	(0.579)	34262	5.00000	4.77(a)
18 Methyl tert-butyl ether	73	3.075	3.075	(0.639)	77272	5.00000	5.02
19 Carbon Disulfide	76	2.513	2.513	(0.522)	137840	10.0000	10.27
20 trans-1,2-Dichloroethene	96	3.049	3.049	(0.634)	27553	5.00000	5.04
21 Vinyl Acetate	43	3.604	3.604	(0.749)	174288	10.0000	10.47
22 1,1-Dichloroethane	63	3.507	3.507	(0.729)	52777	5.00000	5.08
24 2-Butanone	43	4.264	4.264	(0.886)	29852	10.0000	9.90
26 2,2-Dichloropropane	77	4.174	4.174	(0.868)	33762	5.00000	5.28
27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	34046	5.00000	5.21

28	Chloroform	83	4.567	4.567 (0.949)	56388	5.00000	5.22
29	Bromochloromethane	128	4.462	4.462 (0.928)	18916	5.00000	5.17

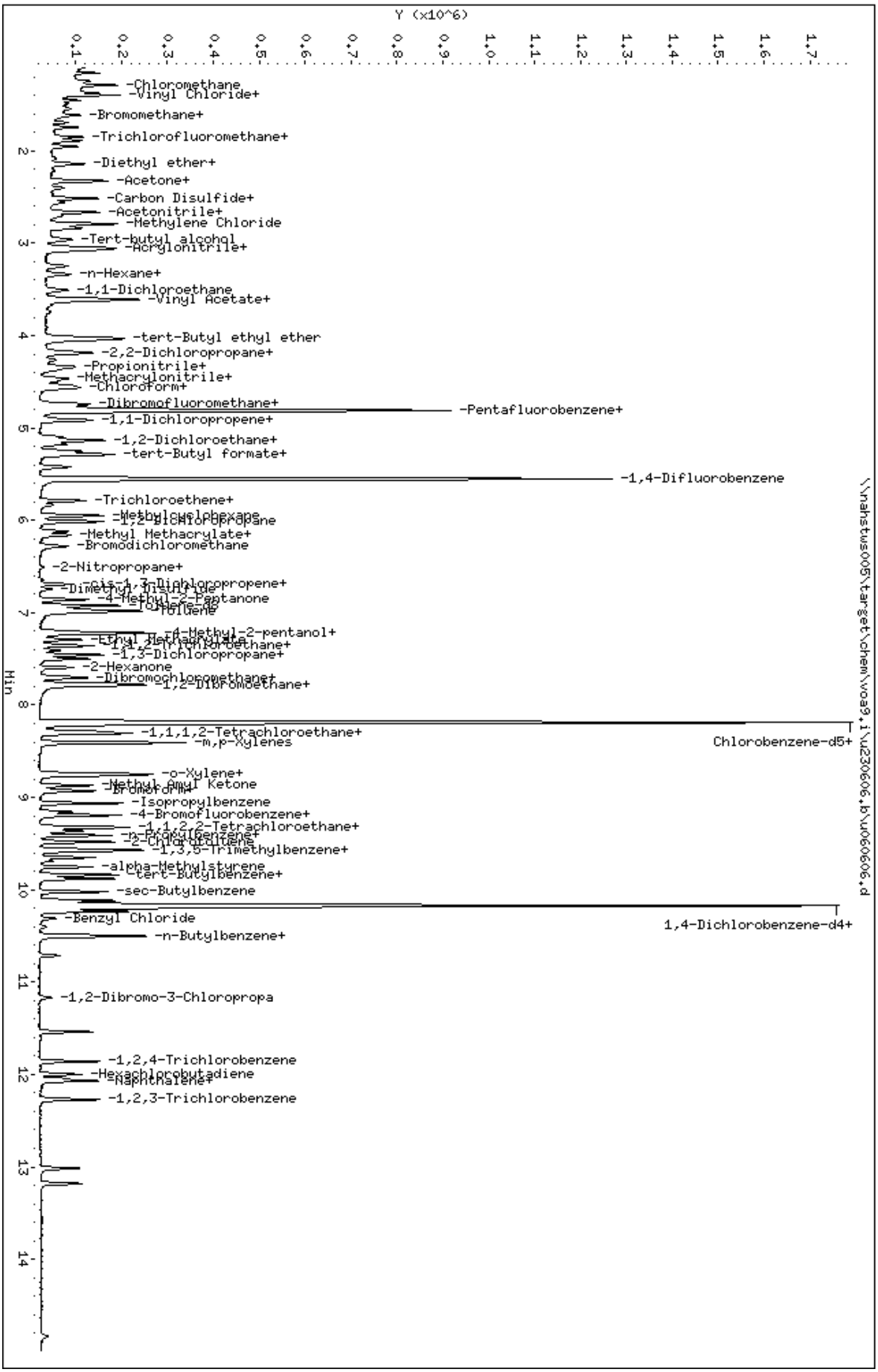
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	30229	5.00000	5.16
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	40381	5.00000	4.90(a)
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	35687	5.00000	4.94(a)
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	44658	5.00000	5.23
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	30773	5.00000	4.63(a)
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	34153	5.00000	5.08
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	985343	50.0000	
	37 Benzene	78	5.137	5.137	(0.926)	124450	5.00000	5.24
	38 Trichloroethene	130	5.786	5.786	(1.043)	36191	5.00000	5.25
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	36599	5.00000	4.94(a)
	42 1,2-Dichloropropane	63	6.011	6.011	(1.083)	32316	5.00000	5.09
	44 Dibromomethane	93	6.119	6.119	(1.103)	20983	5.00000	5.18
	45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	69130	10.0000	10.20
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.206)	37734	5.00000	5.56
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	930383	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	106553	5.00000	5.06(M)
	50 Toluene	91	6.982	6.982	(0.853)	128415	5.00000	5.08
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.297)	31811	5.00000	5.68(M)
	52 2-Hexanone	43	7.593	7.593	(0.928)	46135	10.0000	9.77
	53 1,1,2-Trichloroethane	83	7.356	7.356	(0.899)	27005	5.00000	5.14
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	55865	5.00000	5.20
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	28715	5.00000	4.60(a)
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	31033	5.00000	5.04
	57 1,2-Dibromoethane	107	7.788	7.788	(0.951)	31859	5.00000	4.91(a)
	58 1-Chlorohexane	55	8.196	8.196	(1.477)	23998	5.00000	4.74(aM)
	59 Chlorobenzene	112	8.211	8.211	(1.003)	93304	5.00000	5.18
	60 1,1,1,2-Tetrachloroethane	131	8.282	8.282	(1.012)	29452	5.00000	4.75(a)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	40417	5.00000	4.82(a)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	87802	10.0000	8.85(a)
	63 o-Xylene	106	8.747	8.747	(1.069)	45979	5.00000	4.69(a)
	64 Styrene	104	8.762	8.762	(1.071)	64961	5.00000	4.17(a)
	66 Bromoform	173	8.920	8.920	(1.090)	18587	5.00000	4.42(a)
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	111398	5.00000	4.73(a)
	68 1,1,2,2-Tetrachloroethane	83	9.328	9.328	(0.917)	44946	5.00000	5.11
$	69 4-Bromofluorobenzene	95	9.193	9.193	(1.123)	49215	5.00000	5.13
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	467357	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	38304	5.00000	4.95(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	110045	5.00000	4.48(a)
	74 Bromobenzene	156	9.317	9.317	(0.916)	38901	5.00000	4.93(a)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	78874	5.00000	4.68(a)
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	85816	5.00000	4.97(a)
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	94195	5.00000	4.93(a)
	78 tert-Butylbenzene	119	9.838	9.838	(0.967)	79517	5.00000	4.81(a)
	79 1,2,4-Trimethylbenzene	105	9.879	9.879	(0.971)	85616	5.00000	4.86(a)
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	96016	5.00000	4.58(a)
	82 p-Isopropyltoluene	119	10.145	10.145	(0.997)	79695	5.00000	4.54(a)
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	67753	5.00000	5.05
	84 1,4-Dichlorobenzene	146	10.190	10.190	(1.002)	73343	5.00000	5.13
	87 n-Butylbenzene	91	10.494	10.494	(1.032)	70944	5.00000	4.72(a)
	88 1,2-Dichlorobenzene	146	10.505	10.505	(1.033)	65904	5.00000	4.90(a)
	89 1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	5840	5.00000	4.55(a)
	90 1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	42718	5.00000	4.62(a)

92 Naphthalene	128	12.069	12.069 (1.186)	95946	5.00000	4.47(a)
93 1,2,3-Trichlorobenzene	180	12.271	12.271 (1.206)	42734	5.00000	4.73(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
M 94 1,2-Dichloroethylene (total)	96				61599	10.0000	10.26
M 95 Xylenes (total)	106				133781	15.0000	13.54(a)
135 1,4-Dioxane	88	6.172	6.172	(1.283)	12691	100.000	96.68(a)
141 Cyclohexane	56	4.777	4.777	(0.993)	37840	5.00000	4.93(aM)
138 Freon TF	101	2.326	2.326	(0.483)	23128	5.00000	5.20
140 1,3-Butadiene	54	1.396	1.396	(0.290)	32480	5.00000	5.18
147 Methylcyclohexane	55	5.947	5.947	(1.072)	68659	5.00000	5.02
146 Methyl Acetate	43	2.708	2.708	(0.563)	27090	5.00000	4.86(a)
148 Tert-Butyl alcohol	59	2.963	2.963	(0.616)	66425	100.000	104.33
149 Isopropyl Alcohol	45	2.558	2.558	(0.532)	41674	100.000	96.43
72 trans-1,4-Dichloro-2-butene	53	9.381	9.381	(1.146)	5142	5.00000	4.79(M)
12 Isobutyl Alcohol	43	5.287	5.287	(1.099)	83135	100.000	96.79(M)
13 Acetonitrile	39	2.663	2.663	(0.554)	35522	50.0000	49.63
14 Allyl Chloride	41	2.667	2.667	(0.554)	87674	5.00000	5.10
25 Methacrylonitrile	41	4.492	4.492	(0.934)	18250	5.00000	4.67
40 Methyl Methacrylate	41	6.157	6.157	(1.280)	26729	5.00000	4.70
4 Propionitrile	54	4.335	4.335	(0.901)	49866	50.0000	52.20(a)
136 n-Hexane	57	3.334	3.334	(0.693)	28289	5.00000	5.36
194 Acetaldehyde	44	1.452	1.452	(0.302)	14773	20.0000	16.20(M)
131 Methyl Acrylate	55	4.369	4.369	(0.908)	32767	5.00000	4.68(aM)
200 Dimethyl Disulfide	94	6.742	6.742	(0.824)	15263	5.00000	6.61(M)
23 Chloroprene	53	2.150	2.150	(0.447)	9849	5.00000	4.67(aM)
49 Ethyl Methacrylate	69	7.293	7.293	(1.314)	44828	5.00000	5.18
166 1,2,3-Trimethylbenzene	105	10.235	10.235	(1.006)	96136	5.00000	5.35
167 Ethanol	45	2.075	2.075	(0.431)	9968	100.000	100.77
164 Dicyclopentadiene	66	10.202	10.202	(1.003)	115572	5.00000	5.06
145 alpha-Methylstyrene	118	9.756	9.756	(0.959)	33946	5.00000	7.13
142 Tetrahydrofuran	42	4.541	4.541	(0.944)	13490	10.0000	9.46
156 Diisopropyl ether	45	3.615	3.615	(0.751)	94647	5.00000	5.13
151 4-Methyl-2-pentanol	45	7.222	7.222	(1.301)	137040	100.000	93.52
150 Allyl alcohol	57	3.334	3.334	(0.693)	27611	100.000	105.45(M)
86 Benzyl Chloride	91	10.310	10.310	(1.260)	22092	5.00000	7.16
162 Butyl acrylate	55	8.736	8.736	(1.067)	52526	5.00000	4.77(a)
139 Diethyl ether	59	2.135	2.135	(0.444)	23079	5.00000	5.16
203 2-Ethylhexyl Acrylate	55	12.042	12.042	(1.184)	19373	5.00000	6.09
134 Cyclohexanone	55	9.156	9.156	(0.900)	28189	100.000	97.28(a)
130 Ethyl Acetate	43	4.264	4.264	(0.886)	29376	5.00000	4.97(aM)
189 n-Butyl acetate	43	7.709	7.709	(0.942)	50116	5.00000	4.73(aM)
182 Epichlorohydrin	57	6.629	6.629	(1.195)	2028	20.0000	31.12(M)
132 n-Butanol	56	5.831	5.831	(1.212)	16483	100.000	86.46(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Client ID: VSTD005
Sample Info: VSTD005;VSTD005;1;5;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: PC
Column diameter: 0.18

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Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

Acrolein (107-02-8)

Reason Code:

BEFORE

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56
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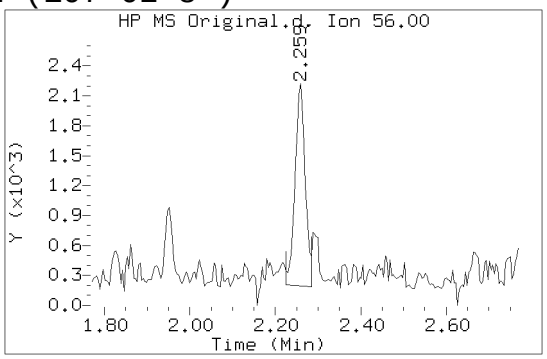
3393
HEIGHT
2027
08-Jun-2023
14:56
linh
pham



AFTER

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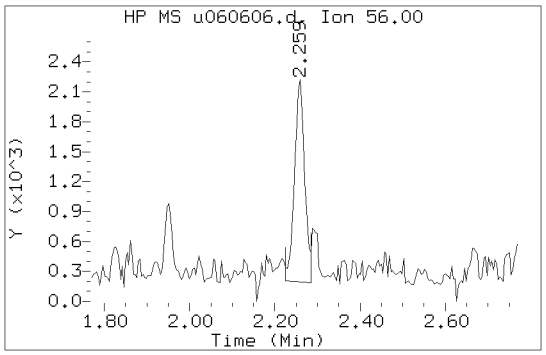

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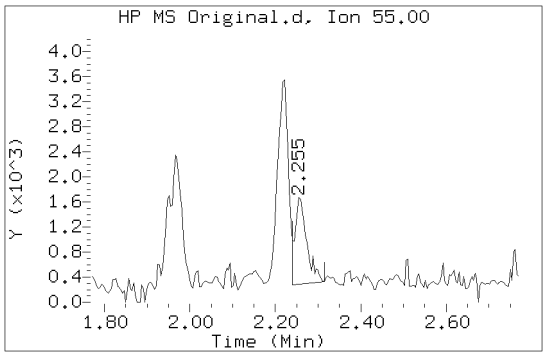

AFTER

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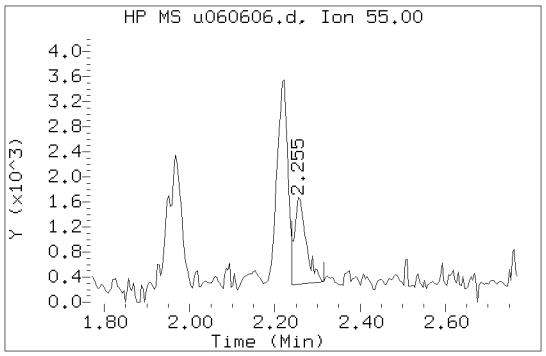

Iodomethane (74-88-4)

Reason Code:

BEFORE

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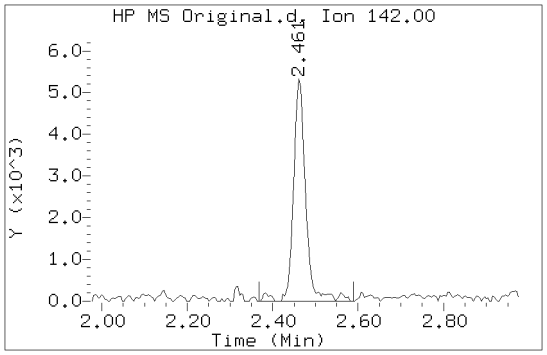

AFTER

MASS
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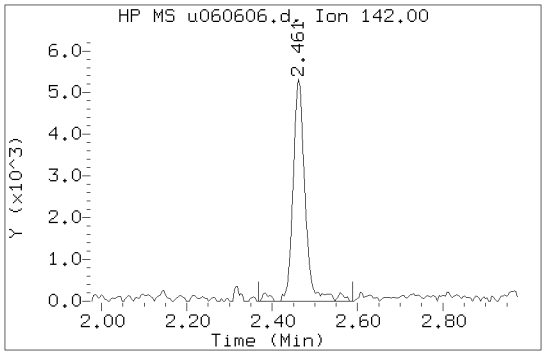

BEFORE

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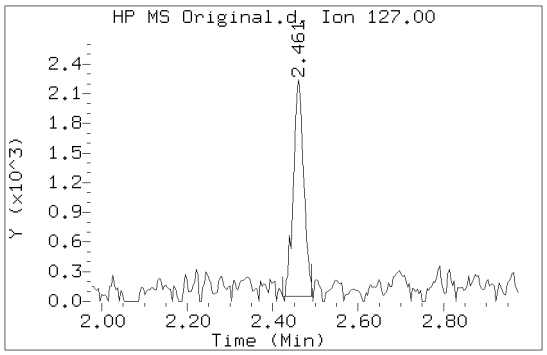

AFTER

MASS
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HEIGHT
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21-Jun-2023
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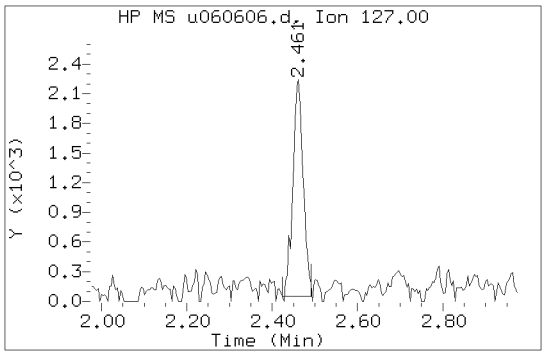
pha



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Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

Iodomethane (74-88-4)

Reason Code:

BEFORE

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629
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14:56
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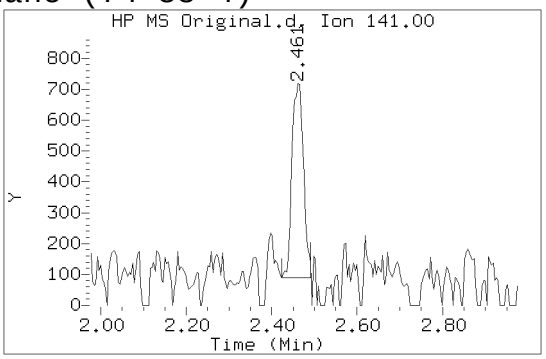
pham



AFTER

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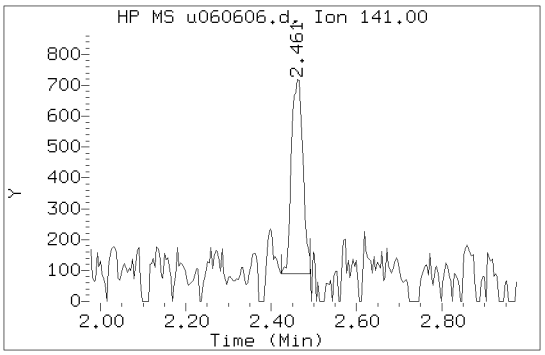

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE

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AREA
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14:56
linh
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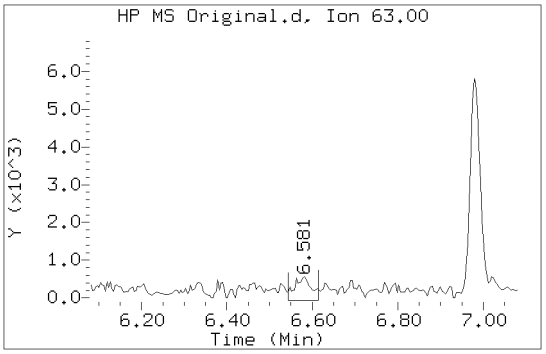

AFTER

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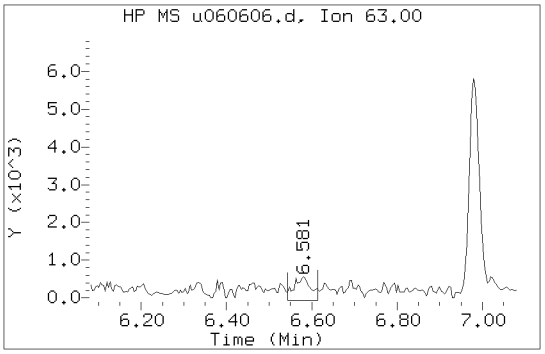

BEFORE

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08-Jun-2023
14:56
linh
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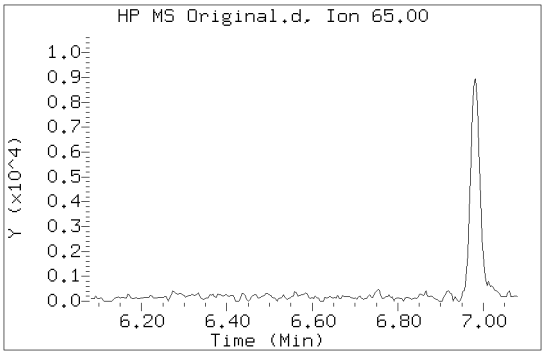

AFTER

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AREA
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HEIGHT
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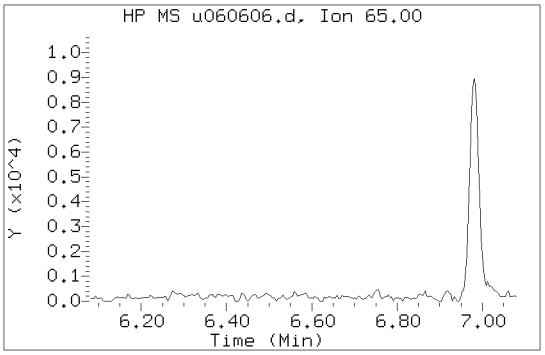

BEFORE

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14:56
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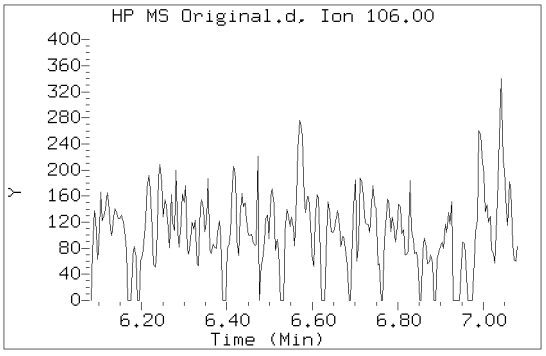

AFTER

MASS
106
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21-Jun-2023
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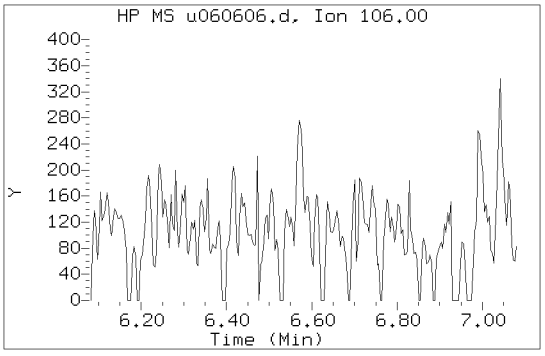
linh
pha



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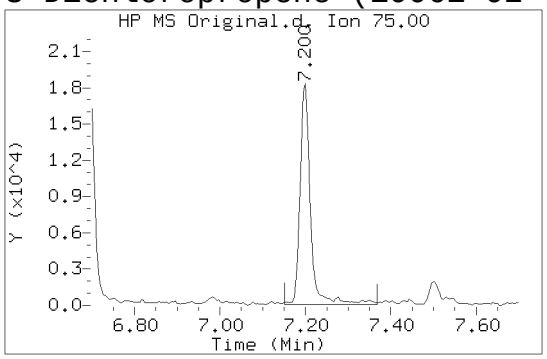
Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

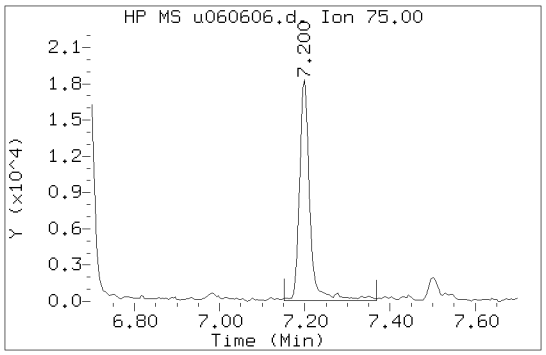
trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

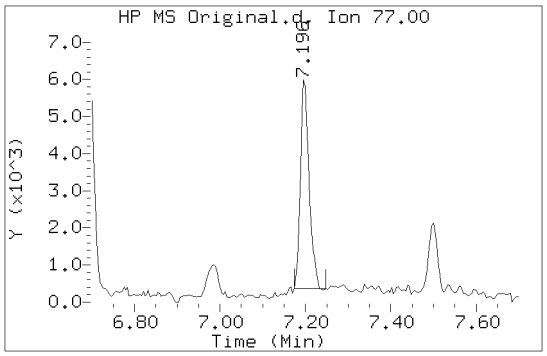
BEFORE
MASS
75
AREA
31811
HEIGHT
18277
08-Jun-2023
14:56
linh
pham



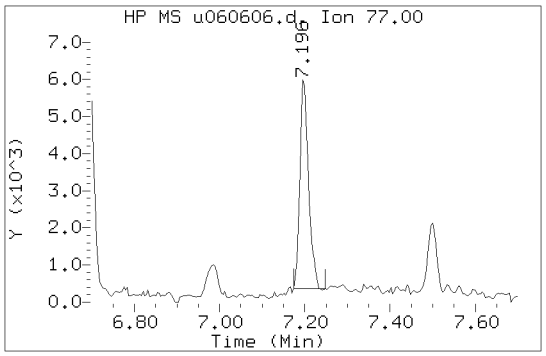
AFTER
MASS
75
AREA
31811
HEIGHT
18277
21-Jun-2023
13:47
linh
pha



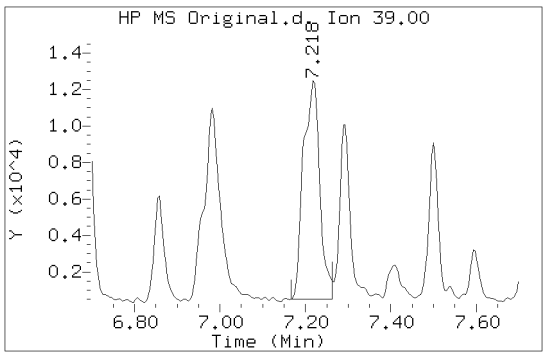
BEFORE
MASS
77
AREA
8164
HEIGHT
5630
08-Jun-2023
14:56
linh
pham



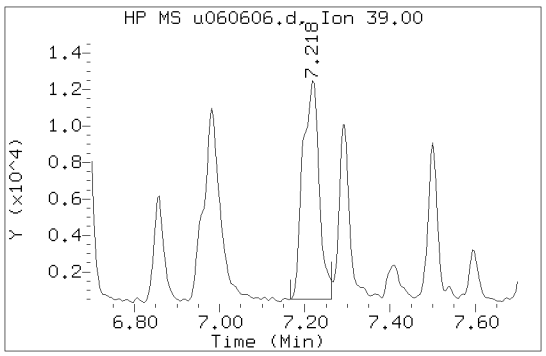
AFTER
MASS
77
AREA
8164
HEIGHT
5630
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
39
AREA
32255
HEIGHT
11964
08-Jun-2023
14:56
linh
pham



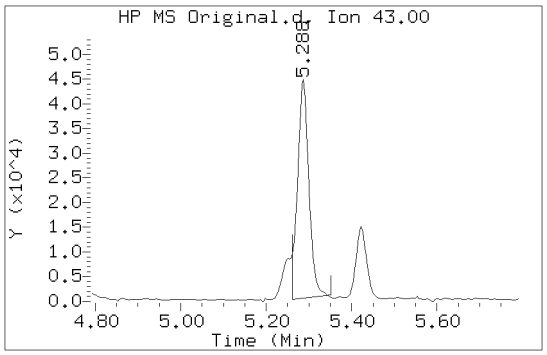
AFTER
MASS
39
AREA
32255
HEIGHT
11964
21-Jun-2023
13:47
linh
pha



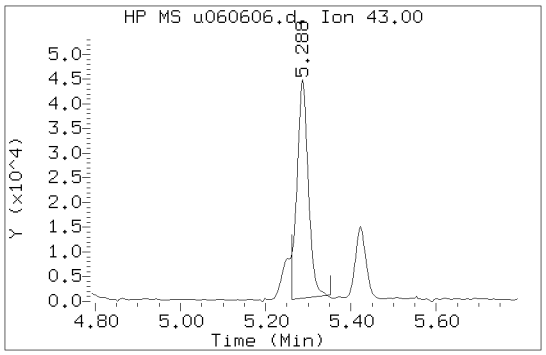
Isobutyl Alcohol (78-83-1)

Reason Code:

BEFORE
MASS
43
AREA
83135
HEIGHT
44258
08-Jun-2023
14:56
linh
pham



AFTER
MASS
43
AREA
83135
HEIGHT
44258
21-Jun-2023
13:47
linh
pha



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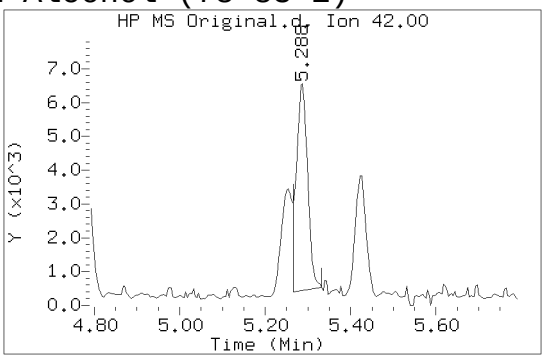
Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

Isobutyl Alcohol (78-83-1)

Reason Code:

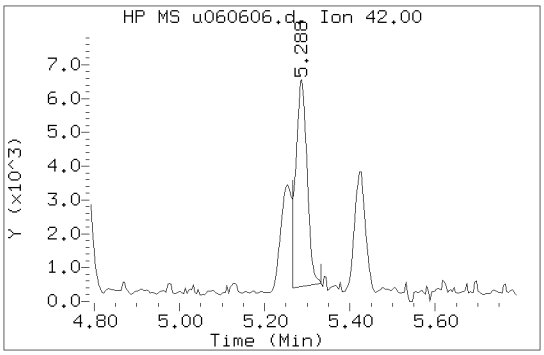
BEFORE

MASS
42
AREA
11630
HEIGHT
6123
08-Jun-2023
14:56
linh
pham



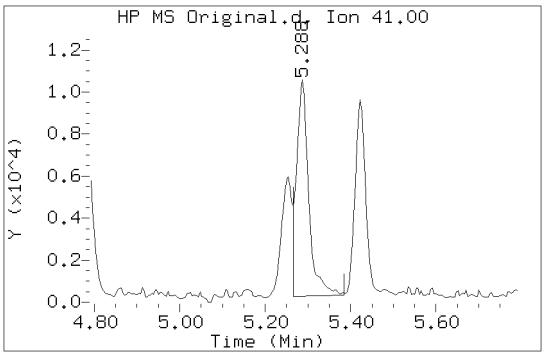
AFTER

MASS
42
AREA
11630
HEIGHT
6123
21-Jun-2023
13:47
linh
pha



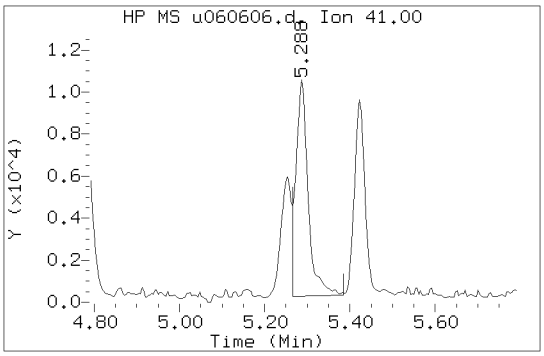
BEFORE

MASS
41
AREA
21244
HEIGHT
10293
08-Jun-2023
14:56
linh
pham



AFTER

MASS
41
AREA
21244
HEIGHT
10293
21-Jun-2023
13:47
linh
pha

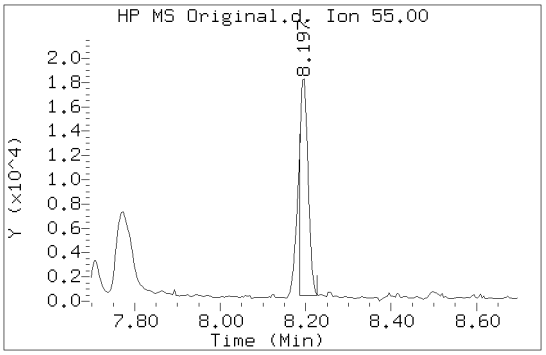


1-Chlorohexane (544-10-5)

Reason Code:

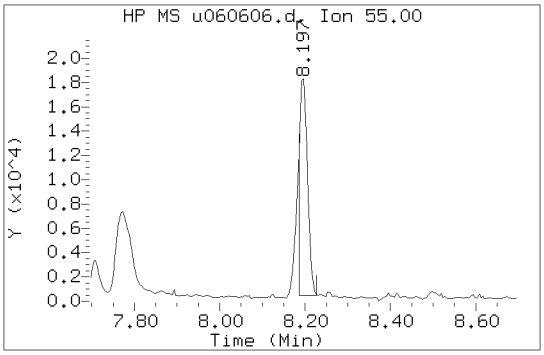
BEFORE

MASS
55
AREA
23998
HEIGHT
17834
08-Jun-2023
14:56
linh
pham



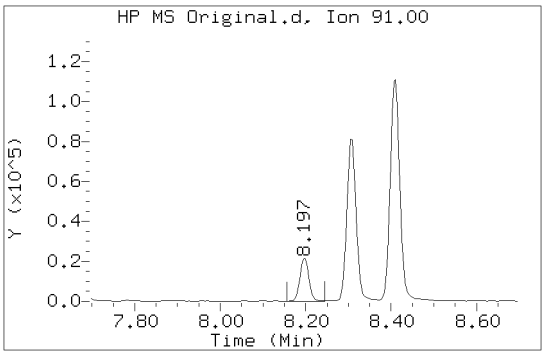
AFTER

MASS
55
AREA
23998
HEIGHT
17834
21-Jun-2023
13:47
linh
pha



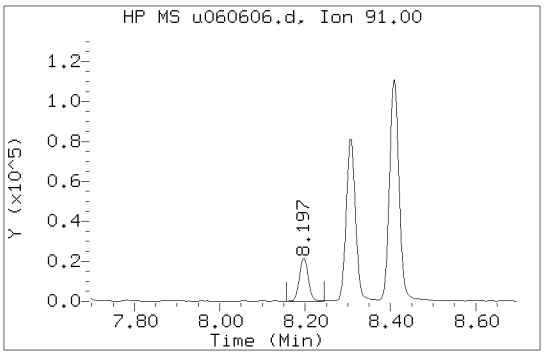
BEFORE

MASS
91
AREA
32110
HEIGHT
21527
08-Jun-2023
14:56
linh
pham



AFTER

MASS
91
AREA
32110
HEIGHT
21527
21-Jun-2023
13:47
linh
pha



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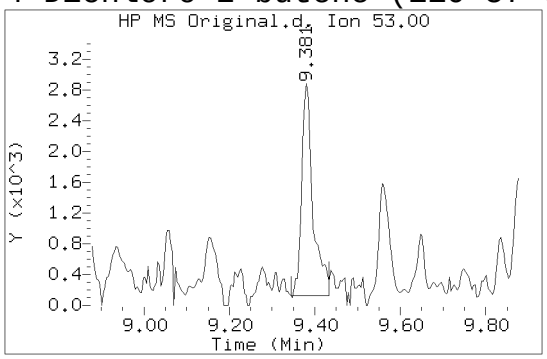
Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

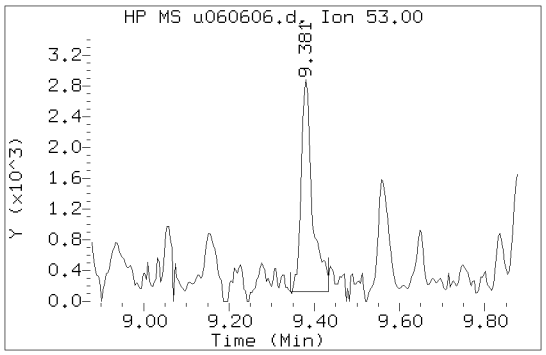
BEFORE

MASS
53
AREA
5142
HEIGHT
2759
08-Jun-2023
14:56
linh
pham



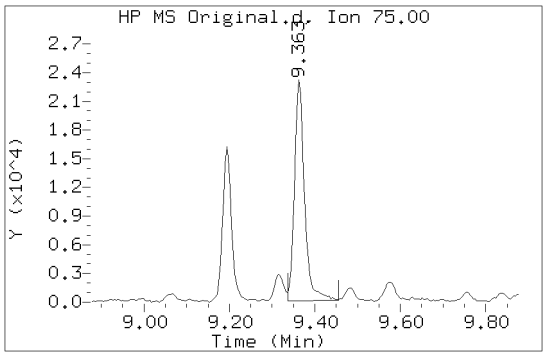
AFTER

MASS
53
AREA
5142
HEIGHT
2759
21-Jun-2023
13:47
linh
pha



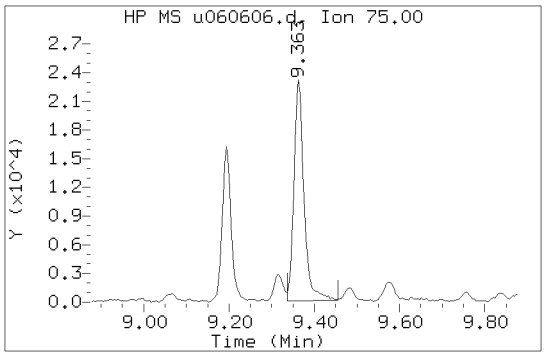
BEFORE

MASS
75
AREA
38567
HEIGHT
23094
08-Jun-2023
14:56
linh
pham



AFTER

MASS
75
AREA
38567
HEIGHT
23094
21-Jun-2023
13:47
linh
pha

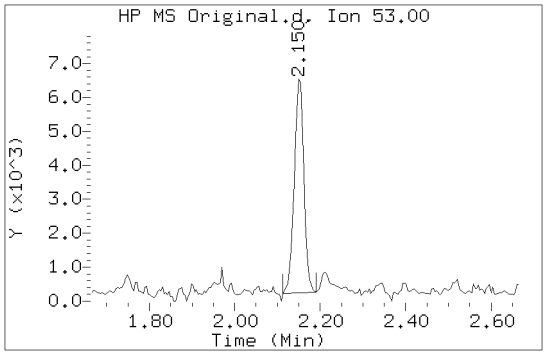


Chloroprene (126-99-8)

Reason Code:

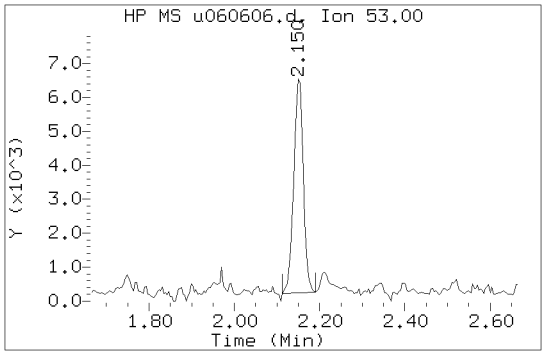
BEFORE

MASS
53
AREA
9849
HEIGHT
6297
08-Jun-2023
14:56
linh
pham



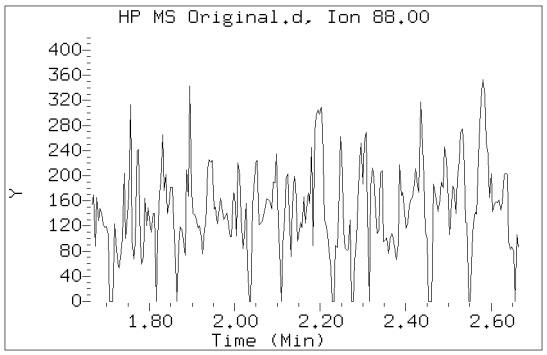
AFTER

MASS
53
AREA
9849
HEIGHT
6297
21-Jun-2023
13:47
linh
pha



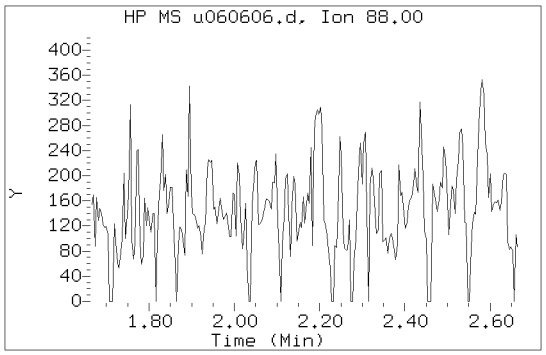
BEFORE

MASS
88
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



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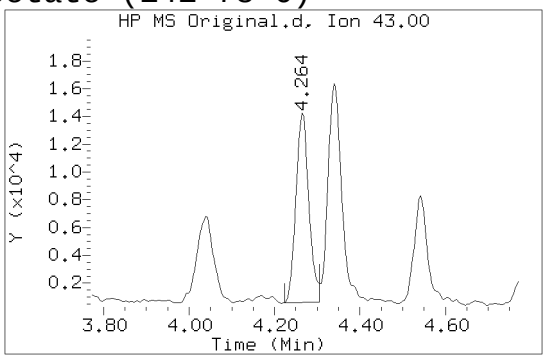
Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

Ethyl Acetate (141-78-6)

Reason Code:

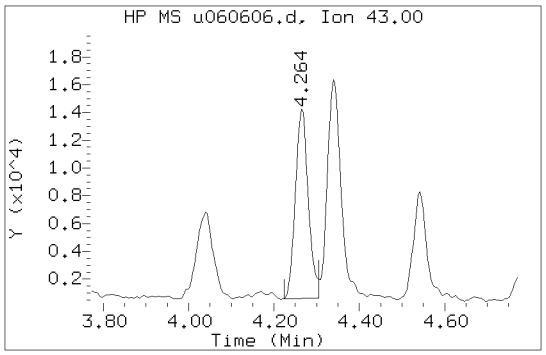
BEFORE

MASS
43
AREA
29376
HEIGHT
13625
08-Jun-2023
14:56
linh
pham



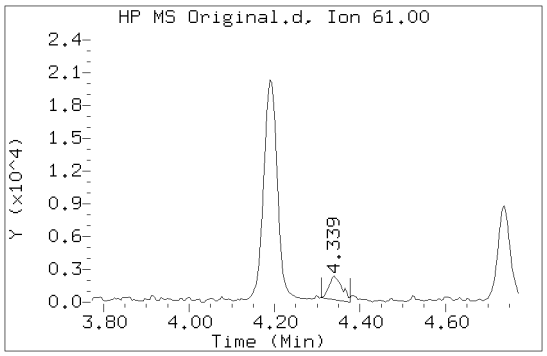
AFTER

MASS
43
AREA
29376
HEIGHT
13625
21-Jun-2023
13:47
linh
pha



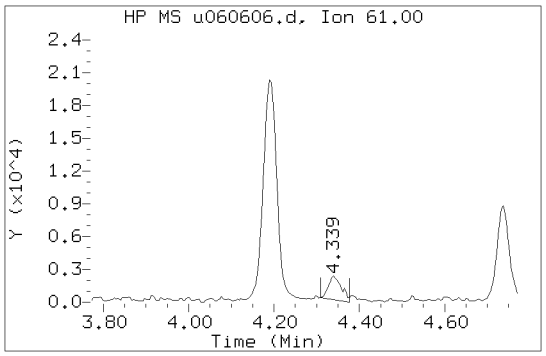
BEFORE

MASS
61
AREA
4693
HEIGHT
2196
08-Jun-2023
14:56
linh
pham



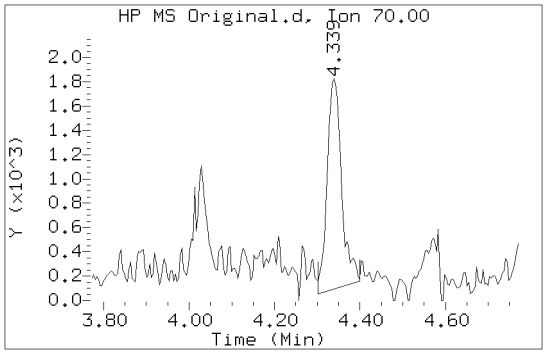
AFTER

MASS
61
AREA
4693
HEIGHT
2196
21-Jun-2023
13:47
linh
pha



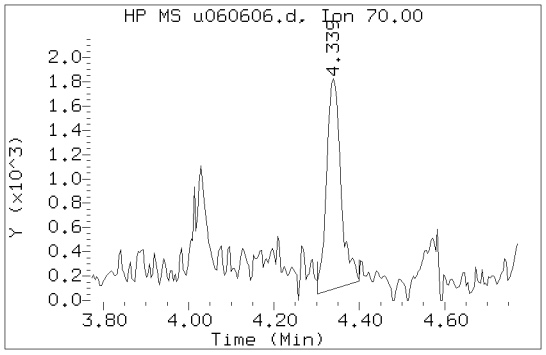
BEFORE

MASS
70
AREA
4078
HEIGHT
1731
08-Jun-2023
14:56
linh
pham



AFTER

MASS
70
AREA
4078
HEIGHT
1731
21-Jun-2023
13:47
linh
pha

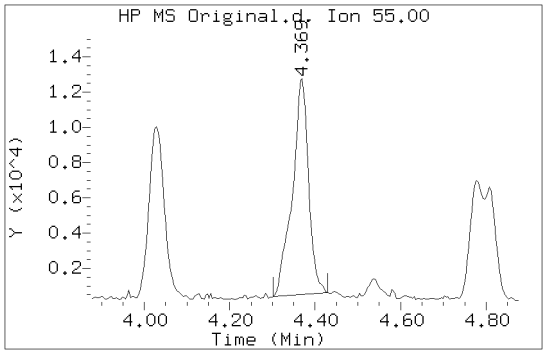


Methyl Acrylate (96-33-3)

Reason Code:

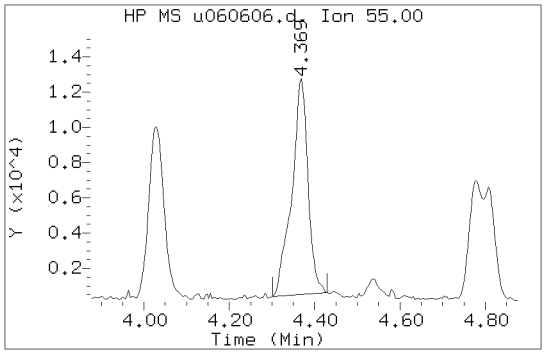
BEFORE

MASS
55
AREA
32767
HEIGHT
12241
08-Jun-2023
14:56
linh
pham



AFTER

MASS
55
AREA
32767
HEIGHT
12241
21-Jun-2023
13:47
linh
pha



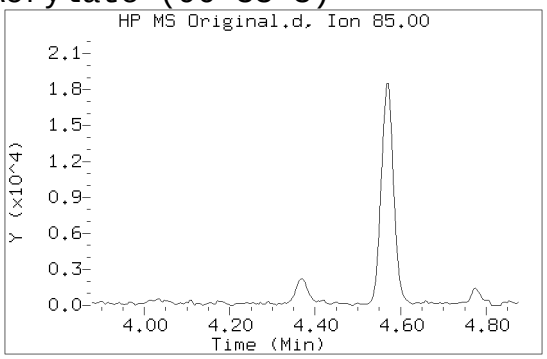
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060606.d
Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

Methyl Acrylate (96-33-3)

Reason Code:

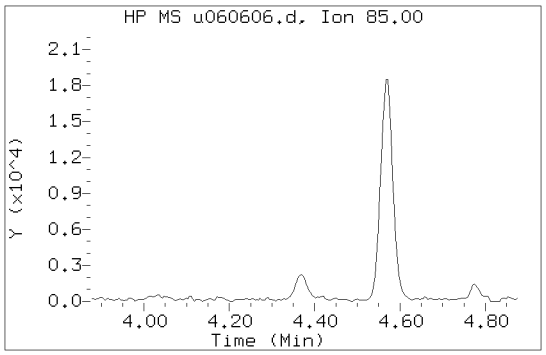
BEFORE

MASS
85
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
85
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

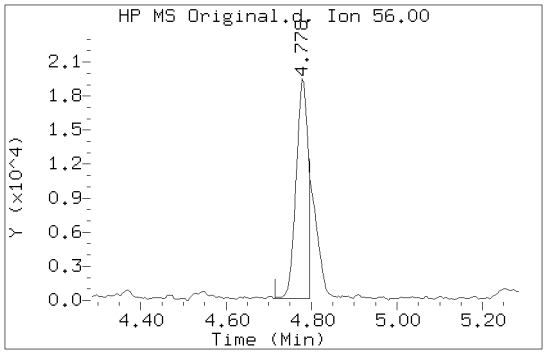


Cyclohexane (110-82-7)

Reason Code:

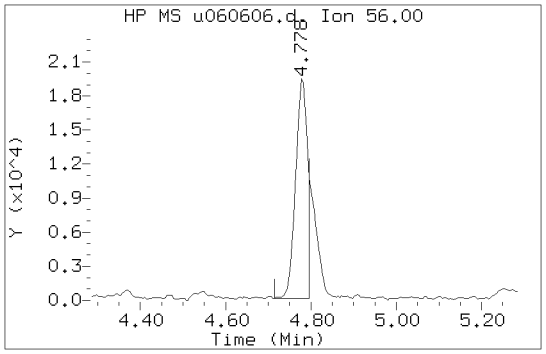
BEFORE

MASS
56
AREA
37840
HEIGHT
19339
08-Jun-2023
14:56
linh
pham



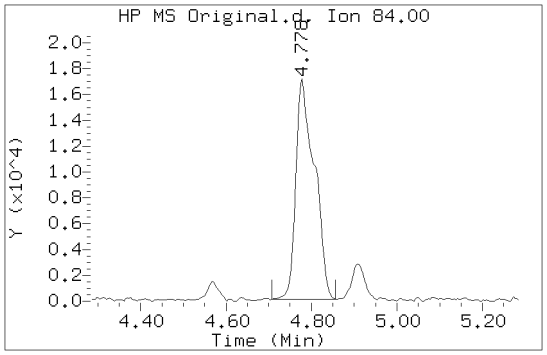
AFTER

MASS
56
AREA
37840
HEIGHT
19339
21-Jun-2023
13:47
linh
pha



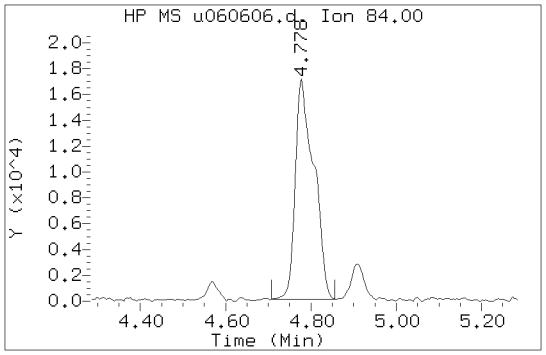
BEFORE

MASS
84
AREA
52176
HEIGHT
17059
08-Jun-2023
14:56
linh
pham



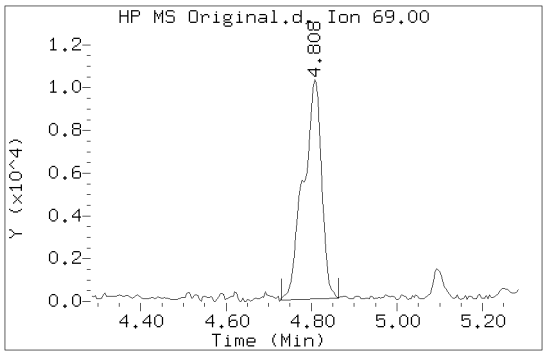
AFTER

MASS
84
AREA
52176
HEIGHT
17059
21-Jun-2023
13:47
linh
pha



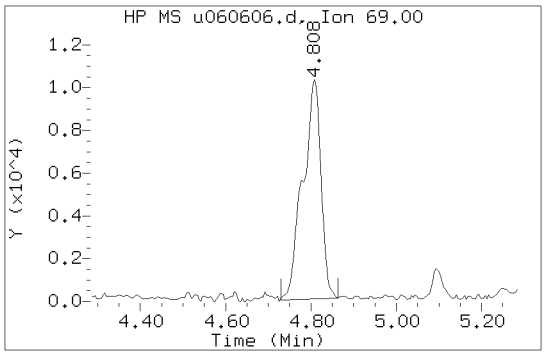
BEFORE

MASS
69
AREA
30602
HEIGHT
10254
08-Jun-2023
14:56
linh
pham



AFTER

MASS
69
AREA
30602
HEIGHT
10254
21-Jun-2023
13:47
linh
pha



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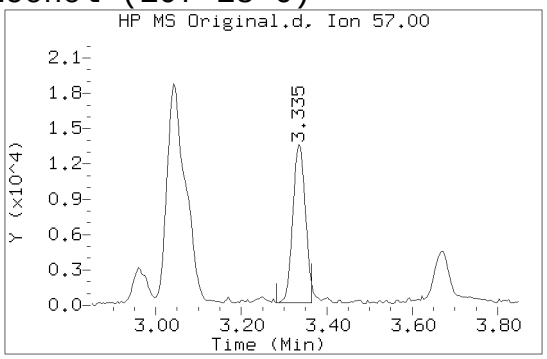
Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

Allyl alcohol (107-18-6)

Reason Code:

BEFORE

MASS
57
AREA
27611
HEIGHT
13437
08-Jun-2023
14:56
linh
pham



AFTER

MASS
57
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27611
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13437
21-Jun-2023
13:47
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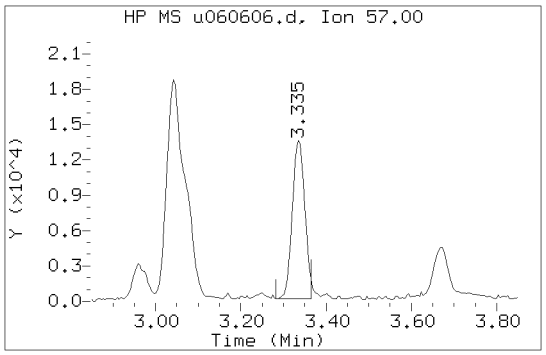
pha



Epichlorohydrin (106-89-8)

Reason Code:

BEFORE

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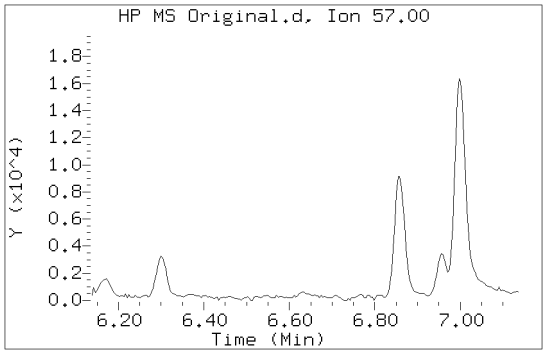

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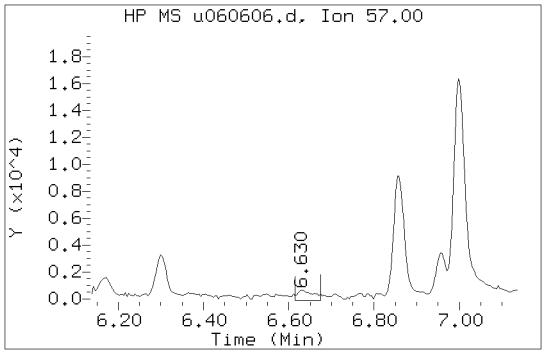

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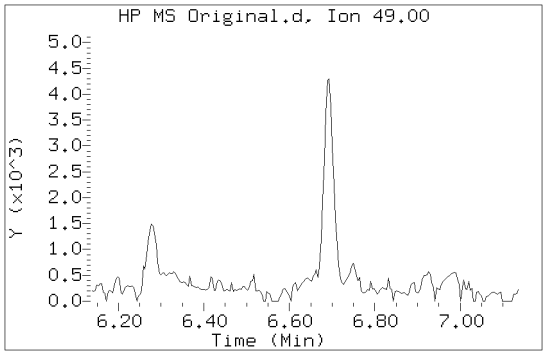

AFTER

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21-Jun-2023
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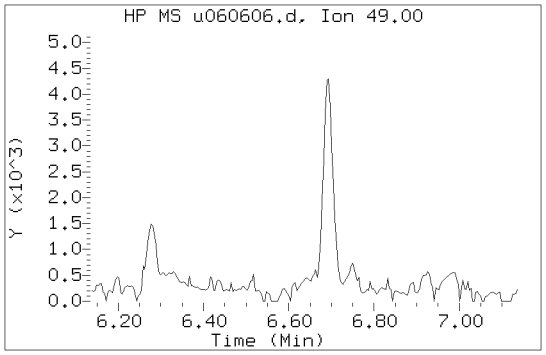

n-Butyl acetate (123-86-4)

Reason Code:

BEFORE

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08-Jun-2023
14:56
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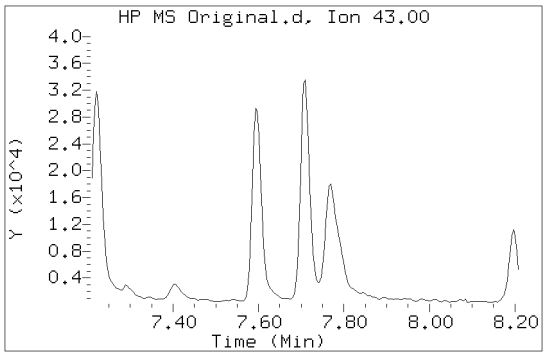
pham



AFTER

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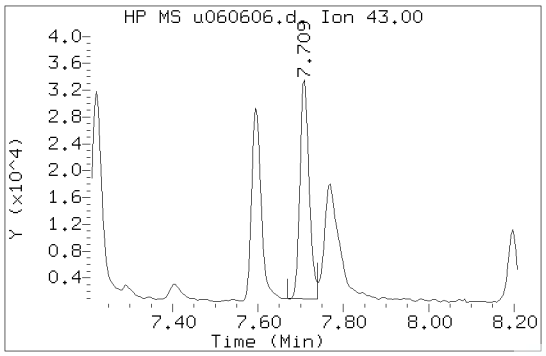

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Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

n-Butyl acetate (123-86-4)

Reason Code:

BEFORE
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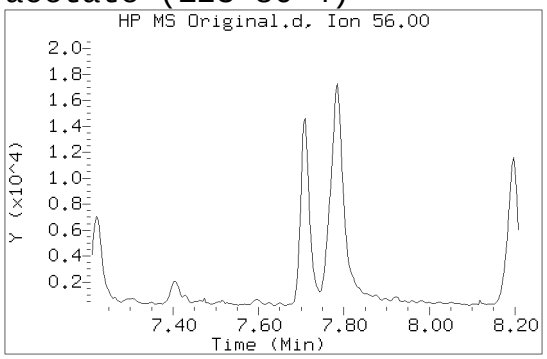
08-Jun-2023
14:56
linh
pham



AFTER
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21-Jun-2023
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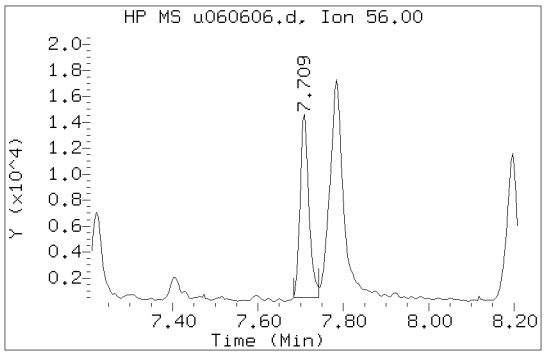

BEFORE
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08-Jun-2023
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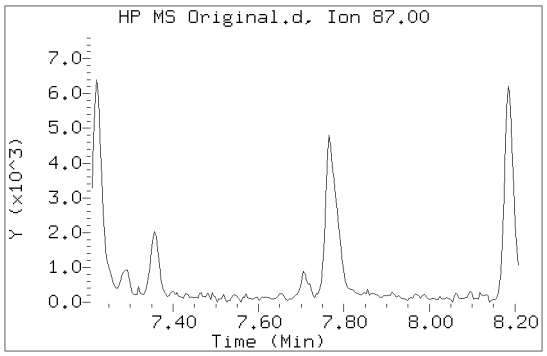

AFTER
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AREA
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21-Jun-2023
13:47
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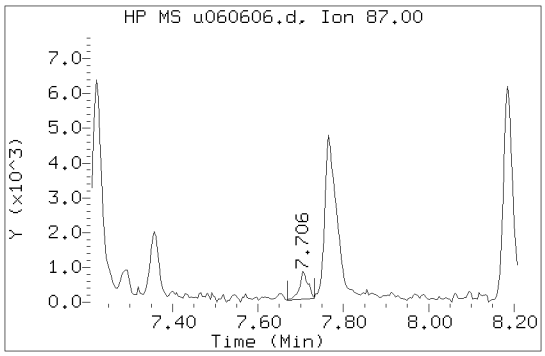

Acetaldehyde (75-07-0)

Reason Code:

BEFORE
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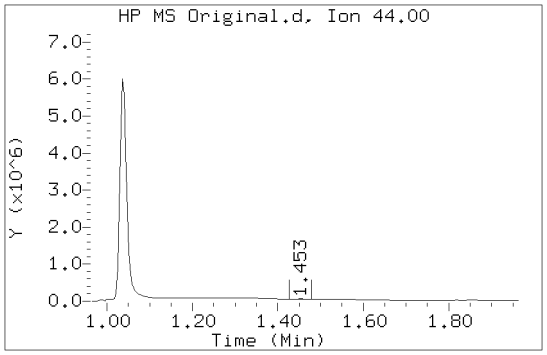
44
AREA
14773
HEIGHT
16936
08-Jun-2023
14:56
linh
pham



AFTER
MASS
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AREA
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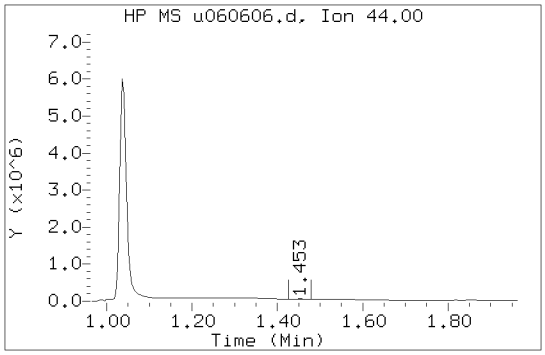
16936
21-Jun-2023
13:47
linh
pha



BEFORE
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08-Jun-2023
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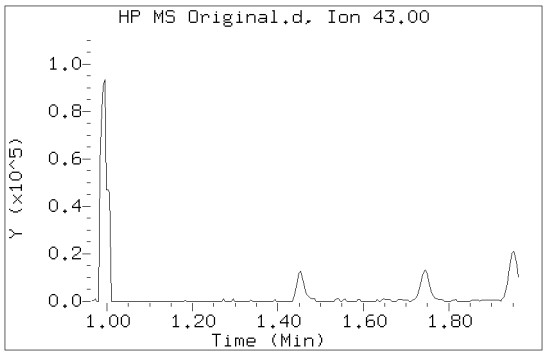
pham



AFTER
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HEIGHT
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21-Jun-2023
13:47
linh
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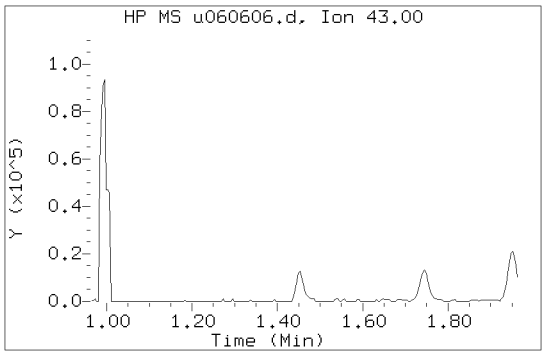

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Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

MASS
42
AREA
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HEIGHT
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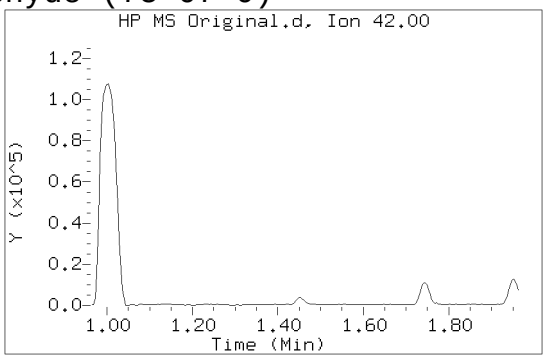
08-Jun-2023
14:56
linh
pham



AFTER

MASS
42
AREA
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HEIGHT
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21-Jun-2023
13:47
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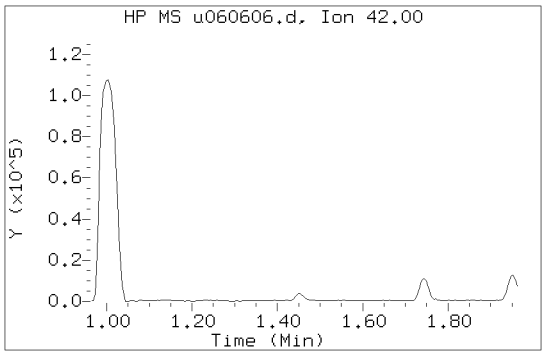
pha



Dimethyl Disulfide (624-92-0)

Reason Code:

BEFORE

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AREA
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HEIGHT
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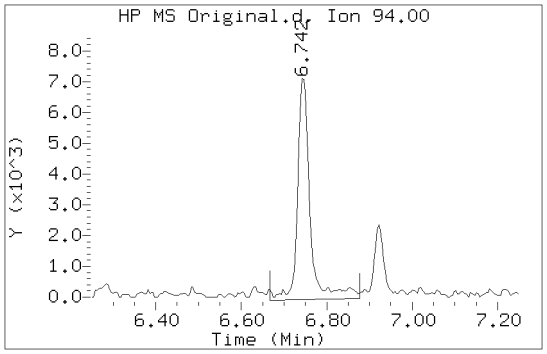
08-Jun-2023
14:56
linh
pham



AFTER

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21-Jun-2023
13:47
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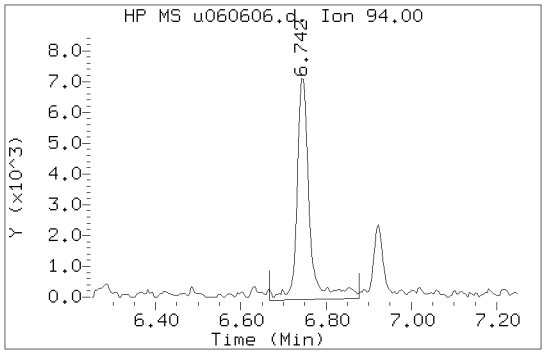

BEFORE

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08-Jun-2023
14:56
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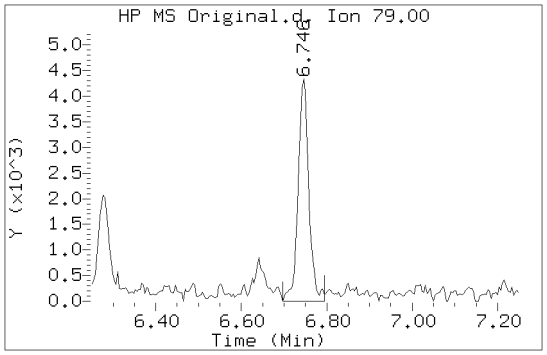
pham



AFTER

MASS
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AREA
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21-Jun-2023
13:47
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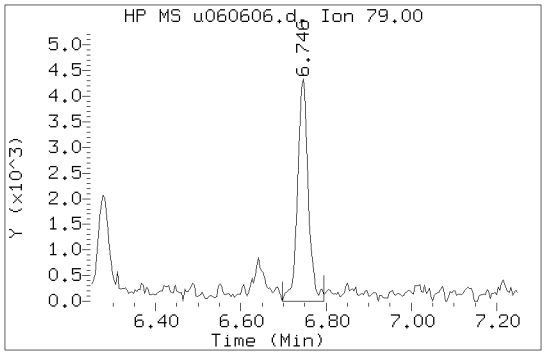

BEFORE

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08-Jun-2023
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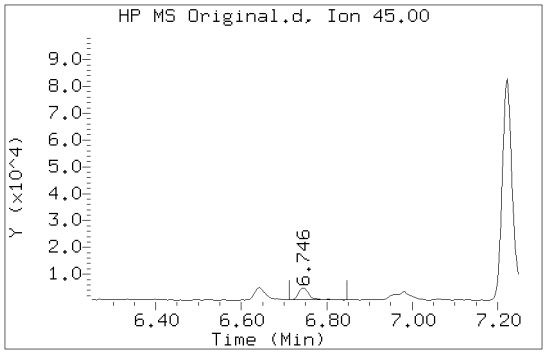

AFTER

MASS
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21-Jun-2023
13:47
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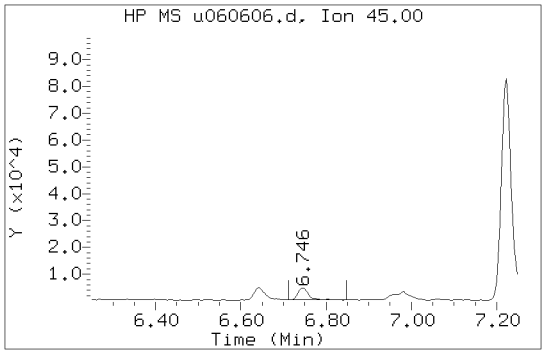

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Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

Toluene-d8 (2037-26-5)

Reason Code:

BEFORE
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HEIGHT
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08-Jun-2023
14:56
linh
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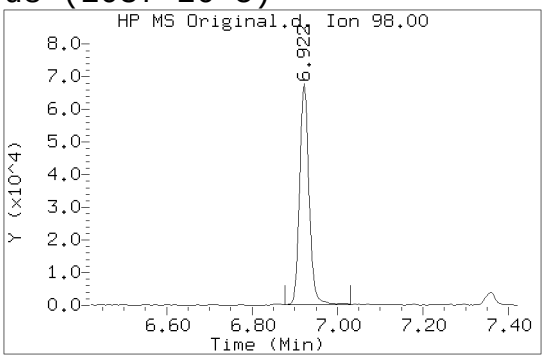

AFTER
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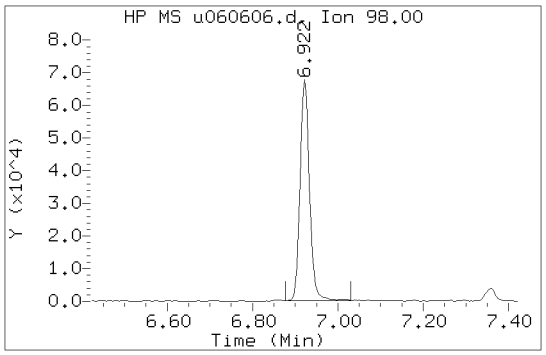

BEFORE
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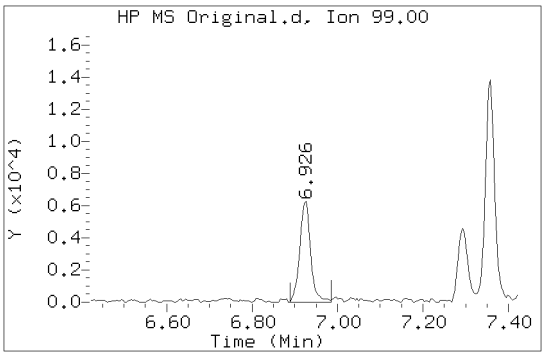

AFTER
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21-Jun-2023
13:47
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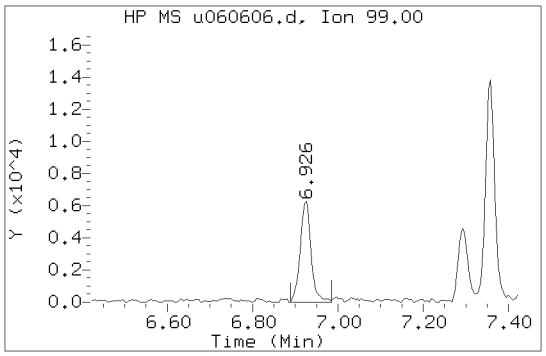

BEFORE
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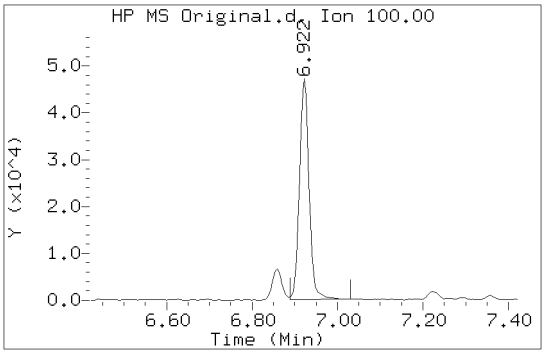
08-Jun-2023
14:56
linh
pham



AFTER
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21-Jun-2023
13:47
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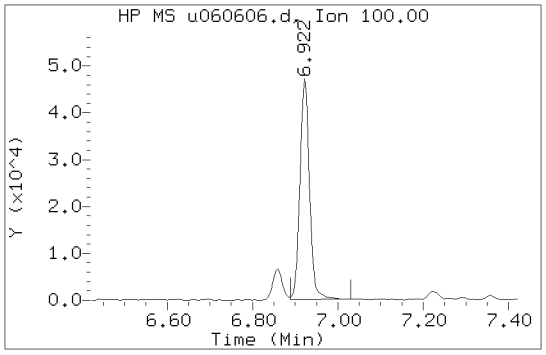

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Report Date: 21-Jun-2023 13:47

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060607.D
Lab Smp Id: VSTD001 Client Smp ID: VSTD001
Inj Date : 06-JUN-2023 13:28
Operator : PC Inst ID: VOA9.i
Smp Info : VSTD001;VSTD001;1;3;
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
Meth Date : 21-Jun-2023 13:45 pcabasca Quant Type: ISTD
Cal Date : 06-JUN-2023 13:28 Cal File: U060607.D
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14

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)	679602	50.0000	
	2 Dichlorodifluoromethane	85	1.160	1.160	(0.241)	5058	1.00000	0.88(a)
	5 Vinyl Chloride	62	1.374	1.374	(0.285)	5942	1.00000	0.82(a)
	7 Chloroethane	64	1.696	1.696	(0.352)	5340	1.00000	1.10(a)
	8 Trichlorofluoromethane	101	1.891	1.891	(0.393)	6909	1.00000	0.83(a)
	11 1,1-Dichloroethene	96	2.330	2.330	(0.484)	4736	1.00000	0.91(a)
	15 Iodomethane	142	2.465	2.465	(0.512)	3593	2.00000	10.69(TM)
	18 Methyl tert-butyl ether	73	3.076	3.076	(0.639)	16686	1.00000	1.05(a)
	19 Carbon Disulfide	76	2.517	2.517	(0.523)	25547	2.00000	1.85(a)
	20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.634)	5007	1.00000	0.89(a)
	22 1,1-Dichloroethane	63	3.514	3.514	(0.730)	11574	1.00000	1.08(a)
	24 2-Butanone	43	4.272	4.272	(0.887)	7341	2.00000	2.36(aM)
	26 2,2-Dichloropropane	77	4.174	4.174	(0.867)	6247	1.00000	1.27(a)
	27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.870)	6668	1.00000	0.99(a)
	28 Chloroform	83	4.571	4.571	(0.949)	10748	1.00000	0.96(a)
	29 Bromochloromethane	128	4.474	4.474	(0.929)	4161	1.00000	1.10(a)
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	5853	1.00000	0.71(a)
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	7815	1.00000	0.92(a)
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	7674	1.00000	1.04(a)
	33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	8428	1.00000	0.97(a)
	34 Carbon Tetrachloride	117	4.905	4.905	(0.883)	5676	1.00000	0.84(a)

$	35	1,2-Dichloroethane-d4	65	5.096	5.096 (1.058)	6027	1.00000	0.30(a)
*	36	1,4-Difluorobenzene	114	5.554	5.554 (1.000)	1002093	50.0000	

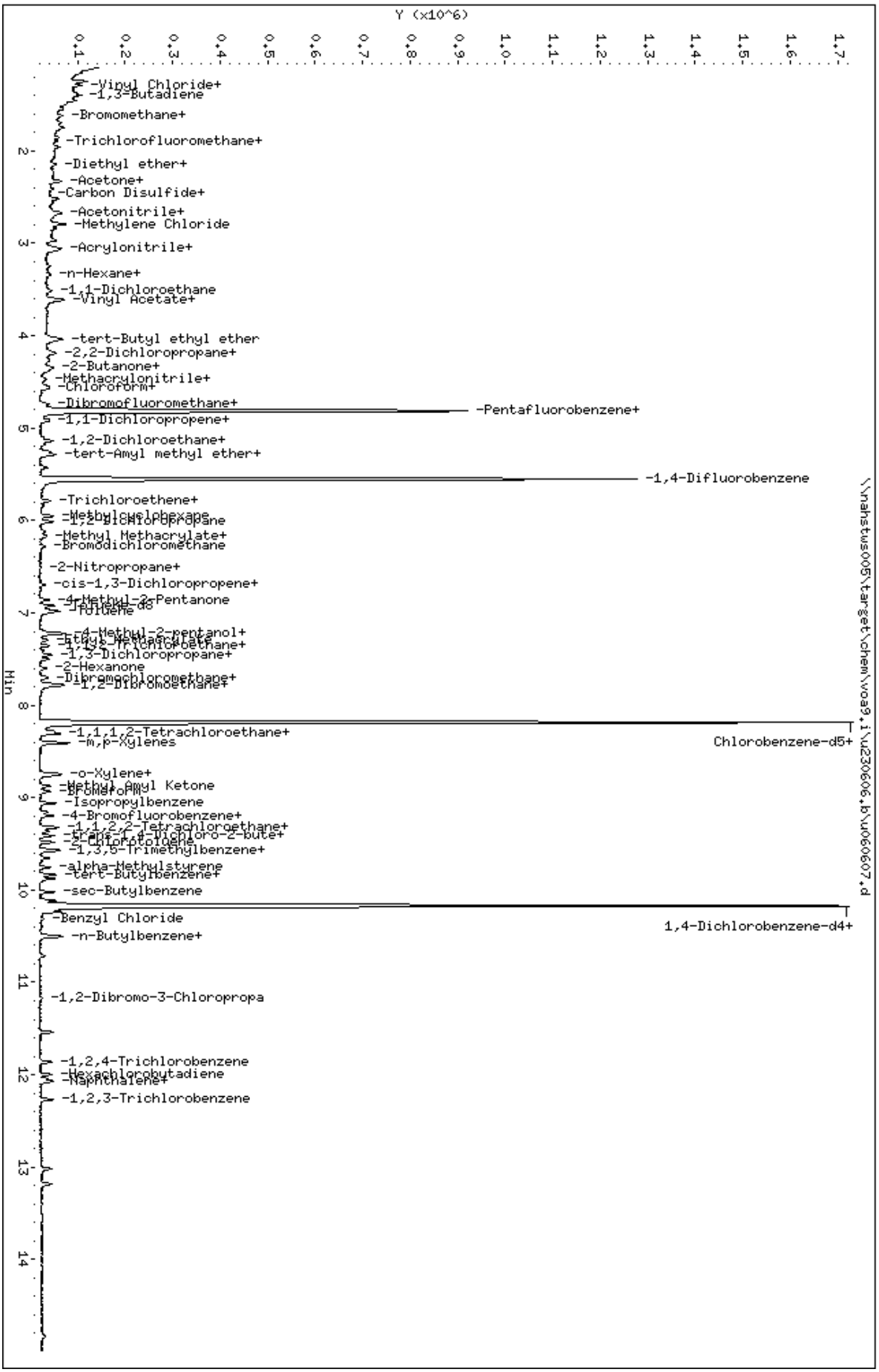
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	37 Benzene	78	5.137	5.137	(0.925)	21926	1.00000	0.90(a)
	38 Trichloroethene	130	5.790	5.790	(1.043)	7055	1.00000	1.00(a)
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	6686	1.00000	0.88(a)
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	6571	1.00000	1.01(a)
	44 Dibromomethane	93	6.120	6.120	(1.102)	4245	1.00000	1.03(a)
	45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	12749	2.00000	1.87(a)
	46 cis-1,3-Dichloropropene	75	6.697	6.697	(1.206)	6985	1.00000	2.57(a)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	934282	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	18686	1.00000	0.88(a)
	50 Toluene	91	6.982	6.982	(0.853)	24364	1.00000	0.96(a)
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.296)	5962	1.00000	2.69(aM)
	52 2-Hexanone	43	7.597	7.597	(0.928)	10155	2.00000	2.14(a)
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	6320	1.00000	1.19(a)
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	10678	1.00000	0.99(a)
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	4999	1.00000	0.79(a)
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	6715	1.00000	1.08(a)
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	6817	1.00000	1.04(a)
	58 1-Chlorohexane	55	8.196	8.196	(1.476)	4887	1.00000	0.94(aM)
	59 Chlorobenzene	112	8.211	8.211	(1.003)	19148	1.00000	1.05(a)
	60 1,1,1,2-Tetrachloroethane	131	8.286	8.286	(1.012)	5664	1.00000	0.91(a)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	7997	1.00000	0.95(a)
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	17600	2.00000	1.76(a)
	63 o-Xylene	106	8.747	8.747	(1.069)	8615	1.00000	0.87(a)
	64 Styrene	104	8.762	8.762	(1.071)	12462	1.00000	0.79(a)
	66 Bromoform	173	8.924	8.924	(1.090)	3596	1.00000	0.85(Ta)
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	21174	1.00000	0.89(a)
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	9671	1.00000	1.08(a)
$	69 4-Bromofluorobenzene	95	9.197	9.197	(1.124)	8608	1.00000	0.14(a)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	472015	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	7255	1.00000	0.92(a)
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	21667	1.00000	0.87(a)
	74 Bromobenzene	156	9.321	9.321	(0.916)	8241	1.00000	1.03(a)
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	16352	1.00000	0.96(a)
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	17404	1.00000	0.99(a)
	77 4-Chlorotoluene	91	9.580	9.580	(0.942)	18186	1.00000	0.94(a)
	78 tert-Butylbenzene	119	9.838	9.838	(0.967)	15445	1.00000	0.92(a)
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	18732	1.00000	1.05(a)
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	19975	1.00000	0.94(a)
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	16778	1.00000	0.94(a)
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	13868	1.00000	1.02(a)
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	16169	1.00000	1.12(a)
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	14921	1.00000	1.10(a)
	89 1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	1239	1.00000	0.95(aM)
	90 1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	9686	1.00000	1.03(a)
	93 1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	9603	1.00000	1.05(a)
M	94 1,2-Dichloroethylene (total)	96				11675	2.00000	1.88(a)
M	95 Xylenes (total)	106				26215	3.00000	2.64(a)
	141 Cyclohexane	56	4.796	4.796	(0.996)	7781	1.00000	1.14(aM)
	138 Freon TF	101	2.330	2.330	(0.484)	3752	1.00000	0.82(a)
	140 1,3-Butadiene	54	1.400	1.400	(0.291)	5632	1.00000	0.87(a)
	146 Methyl Acetate	43	2.712	2.712	(0.563)	6421	1.00000	1.12(aM)
	148 Tert-Butyl alcohol	59	2.967	2.967	(0.616)	16016	20.0000	20.67(aM)

72	trans-1,4-Dichloro-2-butene	53	9.381	9.381 (1.146)	1083	1.00000	1.00
12	Isobutyl Alcohol	43	5.291	5.291 (1.099)	18069	20.0000	20.46(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
13	Acetonitrile	39	2.667	2.667	(0.554)	7477	10.0000	10.16
40	Methyl Methacrylate	41	6.161	6.161	(1.279)	5203	1.00000	0.89(a)
4	Propionitrile	54	4.343	4.343	(0.902)	10588	10.0000	10.78(aM)
136	n-Hexane	57	3.338	3.338	(0.693)	4787	1.00000	0.97(a)
131	Methyl Acrylate	55	4.365	4.365	(0.907)	7188	1.00000	1.00(aM)
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	2841	1.00000	4.92(aM)
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	20474	1.00000	1.12(a)
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	29317	1.00000	1.27(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	6428	1.00000	4.20(a)
156	Diisopropyl ether	45	3.623	3.623	(0.752)	18372	1.00000	0.96(a)
151	4-Methyl-2-pentanol	45	7.222	7.222	(1.300)	29449	20.0000	19.76
150	Allyl alcohol	57	3.338	3.338	(0.693)	4787	20.0000	20.21
86	Benzyl Chloride	91	10.311	10.311	(1.260)	5481	1.00000	4.38(a)
162	Butyl acrylate	55	8.736	8.736	(1.067)	10827	1.00000	0.97(a)
139	Diethyl ether	59	2.142	2.142	(0.445)	3957	1.00000	0.86(a)
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	4963	1.00000	2.84(aM)
134	Cyclohexanone	55	9.156	9.156	(0.900)	6822	20.0000	23.31(a)
130	Ethyl Acetate	43	4.272	4.272	(0.887)	6476	1.00000	1.06(aMH)
189	n-Butyl acetate	43	7.713	7.713	(0.942)	10025	1.00000	0.94(aM)
182	Epichlorohydrin	57	6.656	6.656	(1.198)	230	4.00000	12.04(M)
132	n-Butanol	56	5.838	5.838	(1.213)	4225	20.0000	21.55(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Client ID: VSTD001
Sample Info: VSTD001;VSTD001;1;3;
Purge Volume: 5.0
Column phase: DB624

\\nahstws005\target\chem\voa9,i\u230606,b\u060607,d

Instrument: VOA9,i
Operator: PC
Column diameter: 0.18

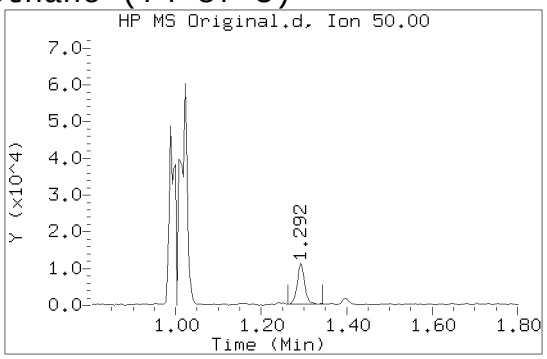
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060607.d
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

Chloromethane (74-87-3)

Reason Code:

BEFORE

MASS
50
AREA
13219
HEIGHT
11073
08-Jun-2023
14:56
linh
pham



AFTER

MASS
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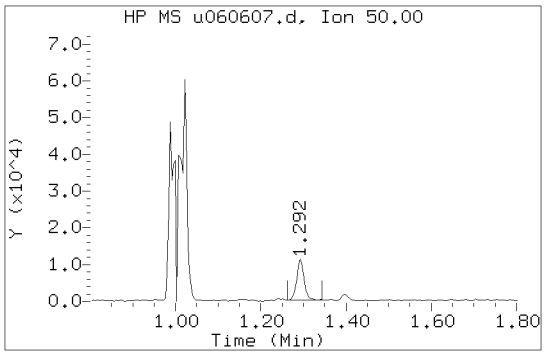
13219
HEIGHT
11073
21-Jun-2023
13:47
linh
pha



BEFORE

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3855
08-Jun-2023
14:56
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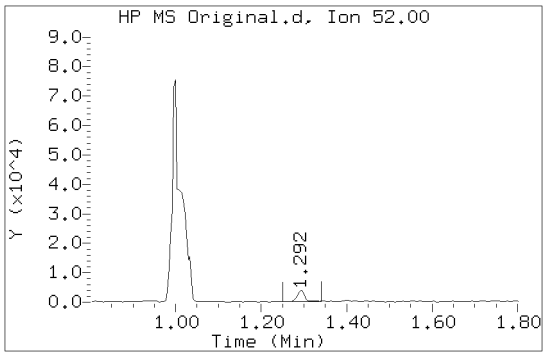

AFTER

MASS
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21-Jun-2023
13:47
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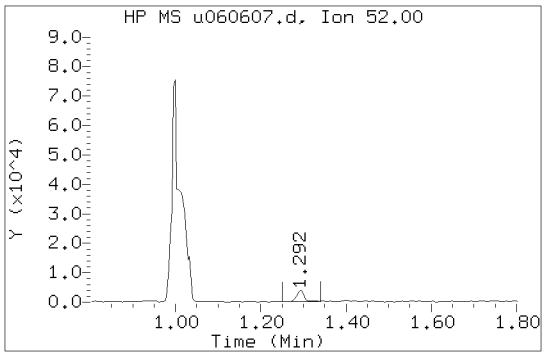

Acrolein (107-02-8)

Reason Code:

BEFORE

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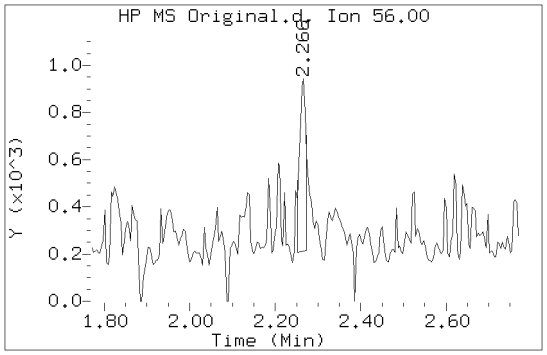
56
AREA
802
HEIGHT
729
08-Jun-2023
14:56
linh
pham



AFTER

MASS
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AREA
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729
21-Jun-2023
13:47
linh
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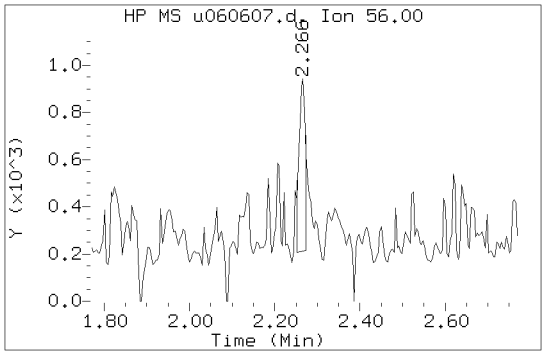

BEFORE

MASS
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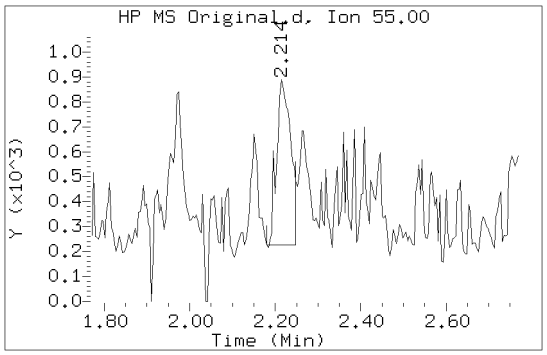
AREA
1527
HEIGHT
664
08-Jun-2023
14:56
linh
pham



AFTER

MASS
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21-Jun-2023
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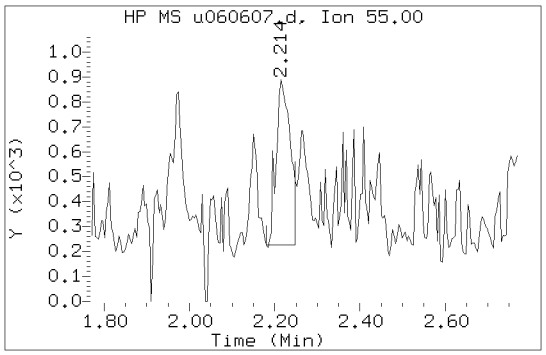

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Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

Iodomethane (74-88-4)

Reason Code:

BEFORE
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AREA
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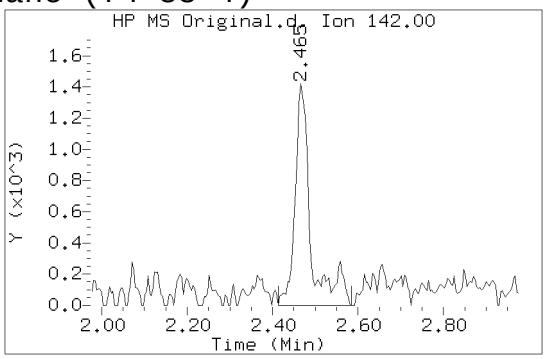
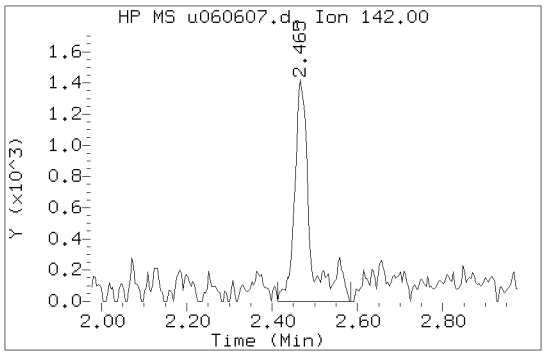
HEIGHT
1421
08-Jun-2023
14:56
linh
pham



AFTER
MASS
142
AREA
3593
HEIGHT
1421
21-Jun-2023
13:47
linh
pha



BEFORE
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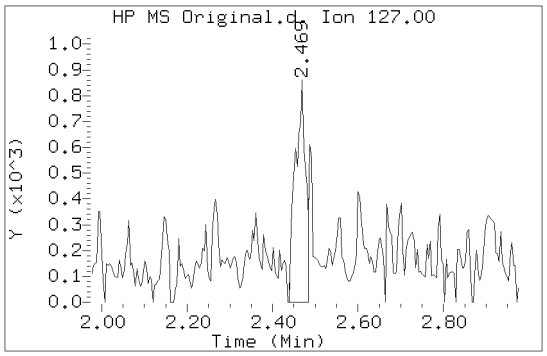
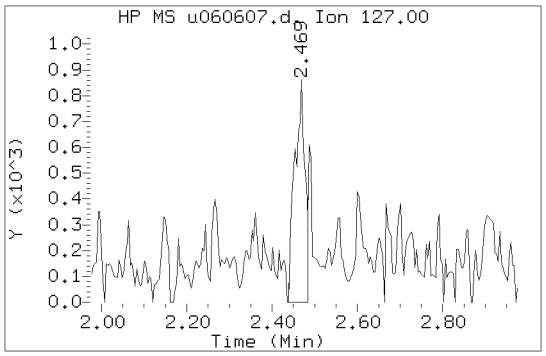
AREA
1453
HEIGHT
861
08-Jun-2023
14:56
linh
pham



AFTER
MASS
127
AREA
1453
HEIGHT
861
21-Jun-2023
13:47
linh
pha



BEFORE
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141
AREA
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08-Jun-2023
14:56
linh
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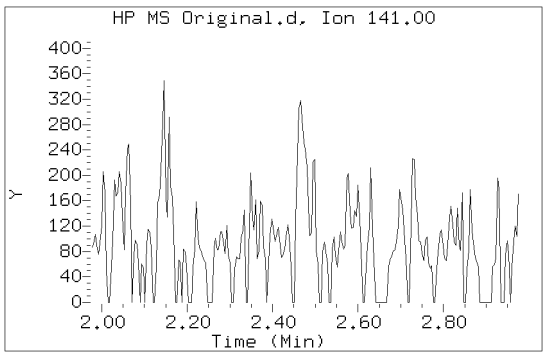

AFTER
MASS
141
AREA
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HEIGHT
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21-Jun-2023
13:47
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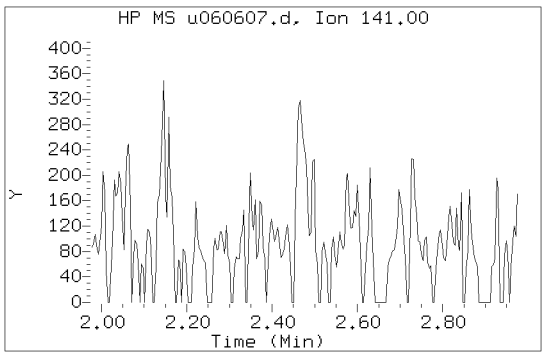
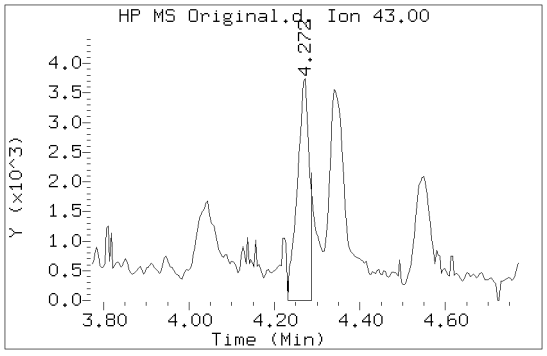


2-Butanone (78-93-3)

Reason Code:

BEFORE
MASS
43
AREA
7341
HEIGHT
3739
08-Jun-2023
14:56
linh
pham



AFTER
MASS
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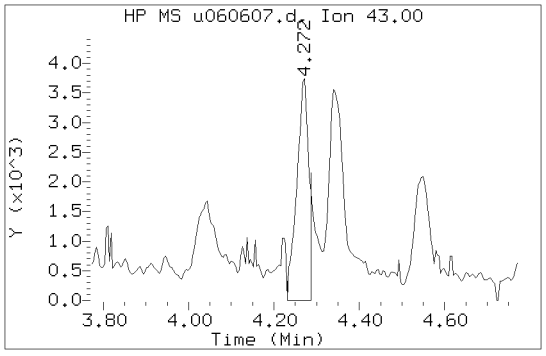
AREA
7341
HEIGHT
3739
21-Jun-2023
13:47
linh
pha



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Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

2-Butanone (78-93-3)

Reason Code:

BEFORE

MASS
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AREA
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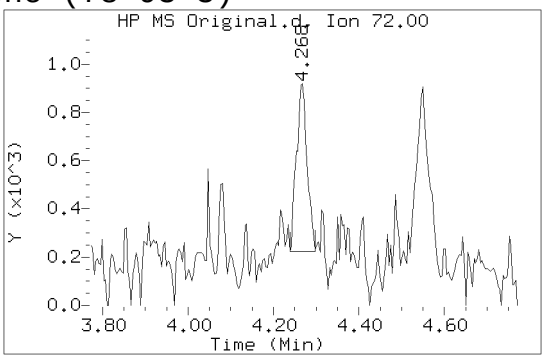
HEIGHT
697
08-Jun-2023
14:56
linh
pham



AFTER

MASS
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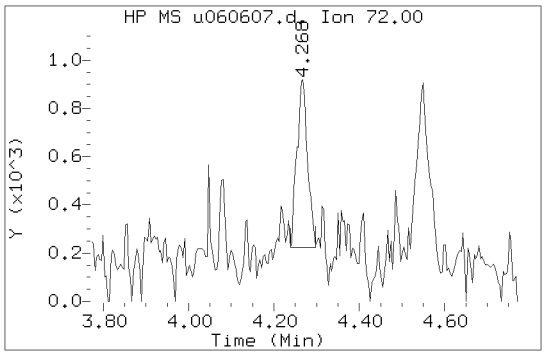
AREA
1240
HEIGHT
697
21-Jun-2023
13:47
linh
pha



2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE

MASS
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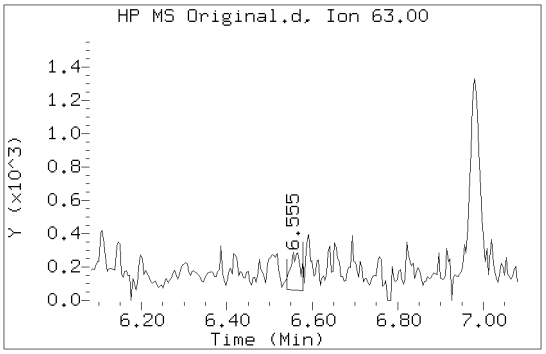
AREA
379
HEIGHT
225
08-Jun-2023
14:56
linh
pham



AFTER

MASS
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AREA
379
HEIGHT
225
21-Jun-2023
13:47
linh
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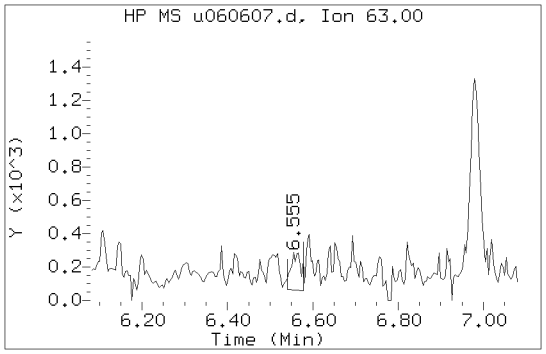
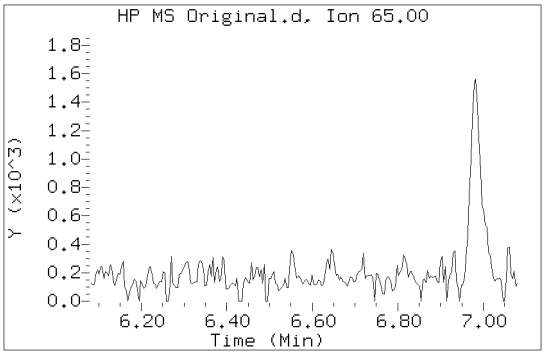


BEFORE

MASS
65
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
65
AREA
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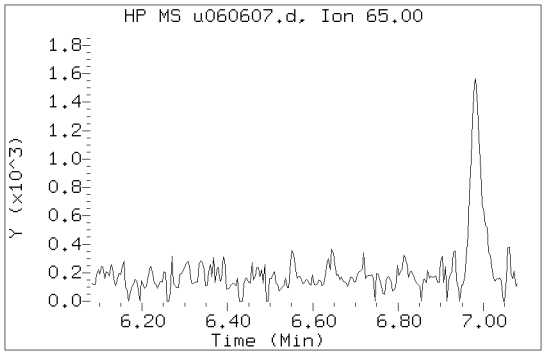
HEIGHT
0
21-Jun-2023
13:47
linh
pha



BEFORE

MASS
106
AREA
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08-Jun-2023
14:56
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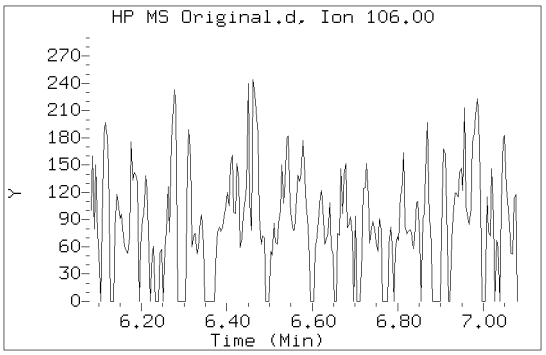

AFTER

MASS
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AREA
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HEIGHT
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21-Jun-2023
13:47
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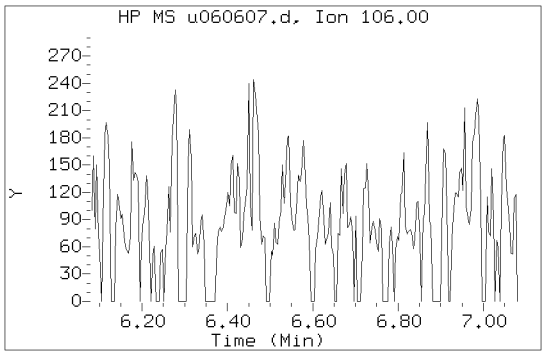

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Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

BEFORE

MASS
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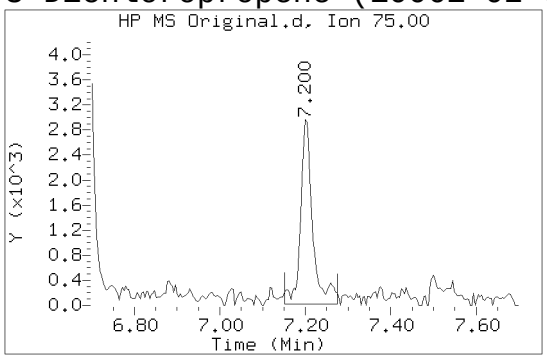
AREA
5962
HEIGHT
2945
08-Jun-2023
14:56
linh
pham



AFTER

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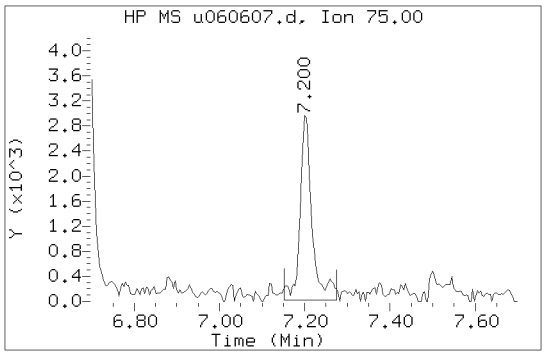

BEFORE

MASS
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AREA
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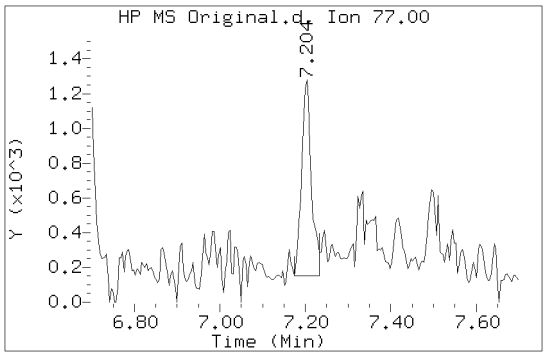
1128
08-Jun-2023
14:56
linh
pham



AFTER

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AREA
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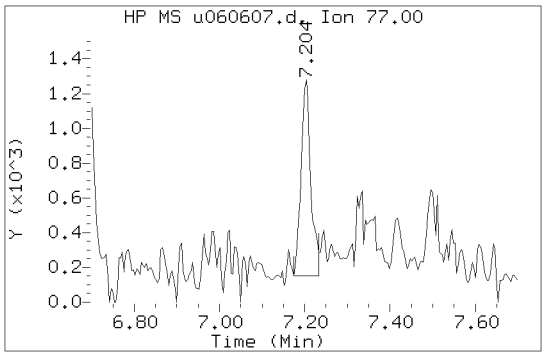
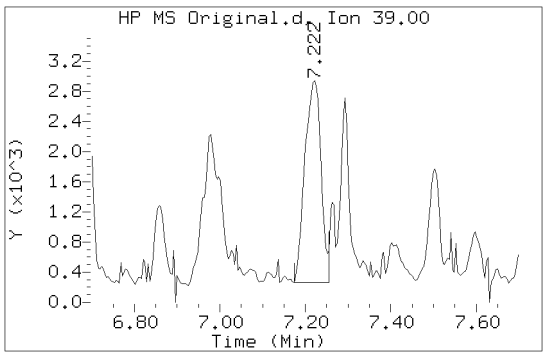
HEIGHT
1128
21-Jun-2023
13:47
linh
pha



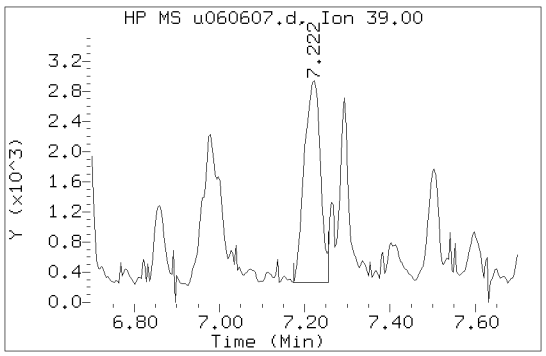
BEFORE

MASS
39
AREA
7143
HEIGHT
2676
08-Jun-2023
14:56
linh
pham



AFTER

MASS
39
AREA
7143
HEIGHT
2676
21-Jun-2023
13:47
linh
pha

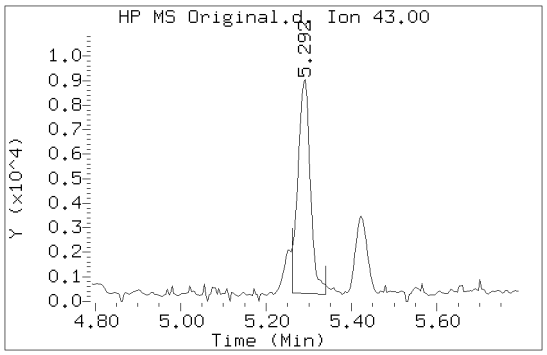


Isobutyl Alcohol (78-83-1)

Reason Code:

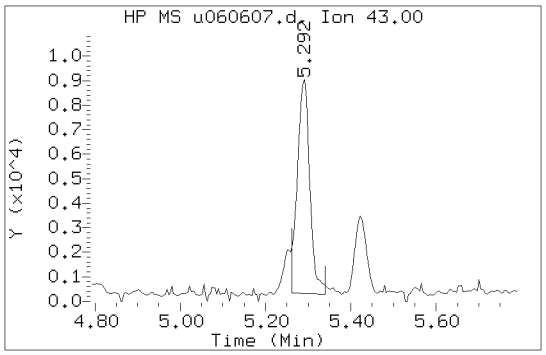
BEFORE

MASS
43
AREA
18069
HEIGHT
8714
08-Jun-2023
14:56
linh
pham



AFTER

MASS
43
AREA
18069
HEIGHT
8714
21-Jun-2023
13:47
linh
pha



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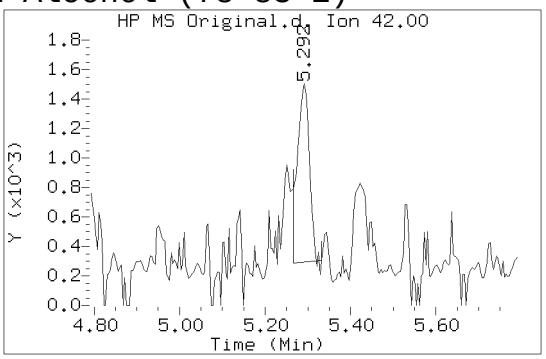
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

Isobutyl Alcohol (78-83-1)

Reason Code:

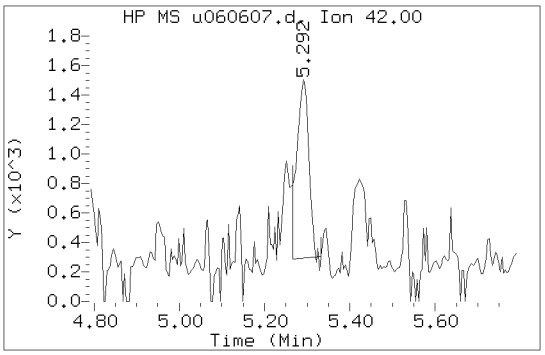
BEFORE

MASS
42
AREA
2425
HEIGHT
1210
08-Jun-2023
14:56
linh
pham



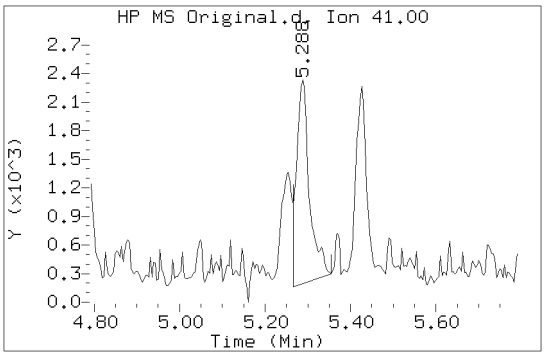
AFTER

MASS
42
AREA
2425
HEIGHT
1210
21-Jun-2023
13:47
linh
pha



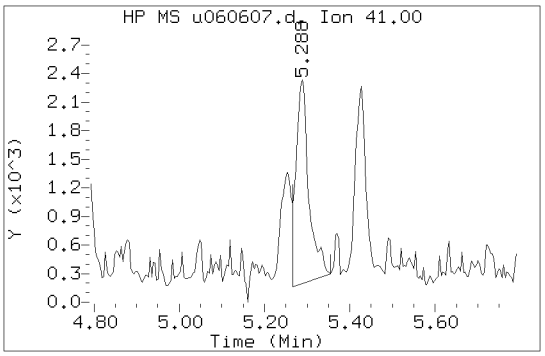
BEFORE

MASS
41
AREA
4613
HEIGHT
2138
08-Jun-2023
14:56
linh
pham



AFTER

MASS
41
AREA
4613
HEIGHT
2138
21-Jun-2023
13:47
linh
pha

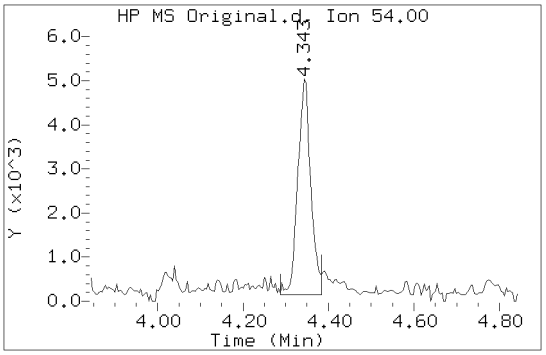


Propionitrile (107-12-0)

Reason Code:

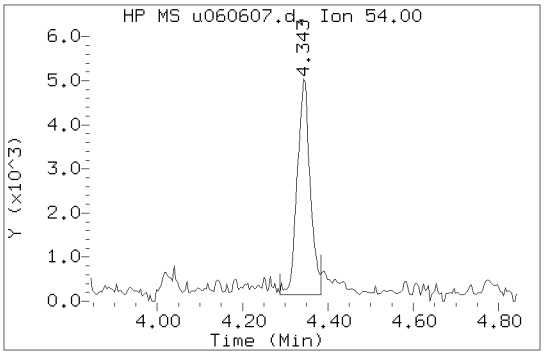
BEFORE

MASS
54
AREA
10588
HEIGHT
4897
08-Jun-2023
14:56
linh
pham



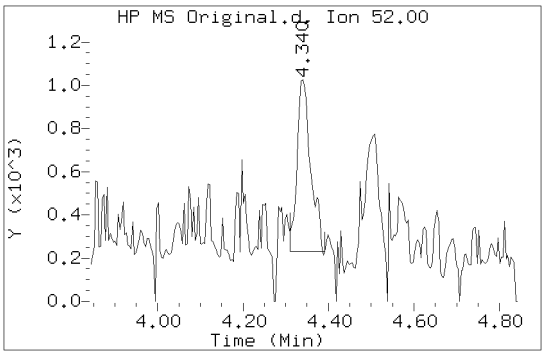
AFTER

MASS
54
AREA
10588
HEIGHT
4897
21-Jun-2023
13:47
linh
pha



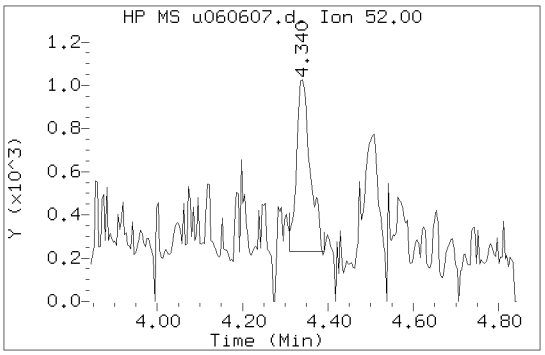
BEFORE

MASS
52
AREA
1789
HEIGHT
794
08-Jun-2023
14:56
linh
pham



AFTER

MASS
52
AREA
1789
HEIGHT
794
21-Jun-2023
13:47
linh
pha



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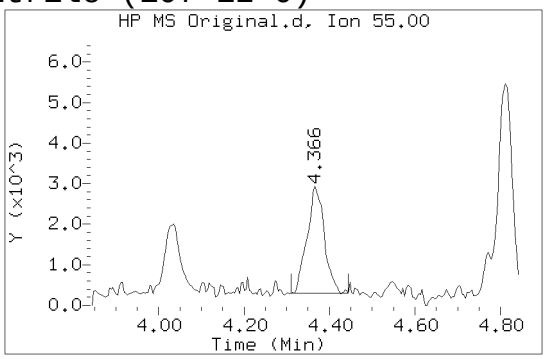
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

Propionitrile (107-12-0)

Reason Code:

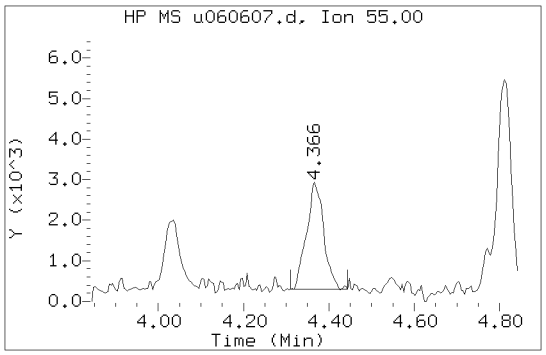
BEFORE

MASS
55
AREA
7500
HEIGHT
2642
08-Jun-2023
14:56
linh
pham



AFTER

MASS
55
AREA
7500
HEIGHT
2642
21-Jun-2023
13:47
linh
pha

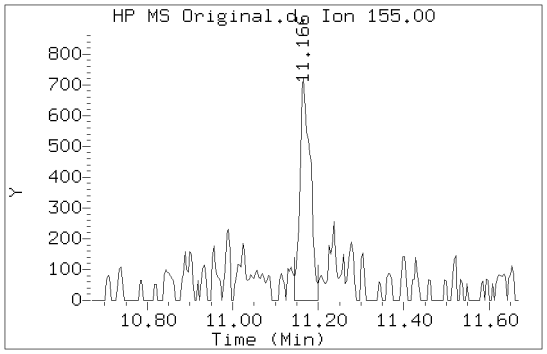


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

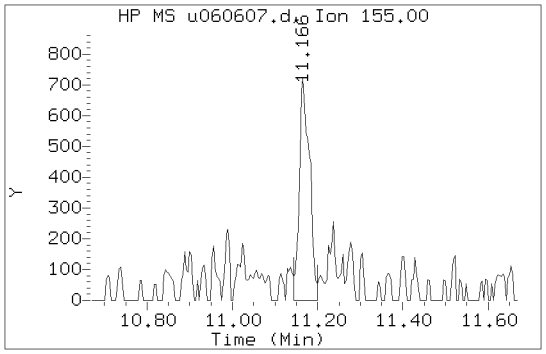
BEFORE

MASS
155
AREA
1239
HEIGHT
719
08-Jun-2023
14:56
linh
pham



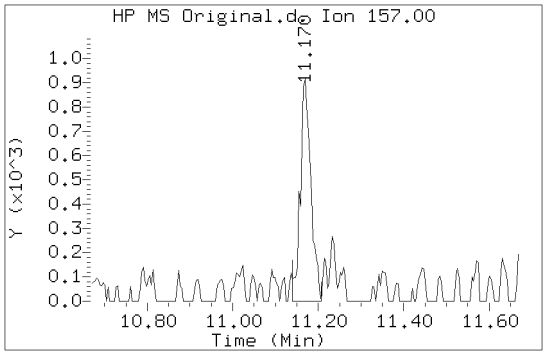
AFTER

MASS
155
AREA
1239
HEIGHT
719
21-Jun-2023
13:47
linh
pha



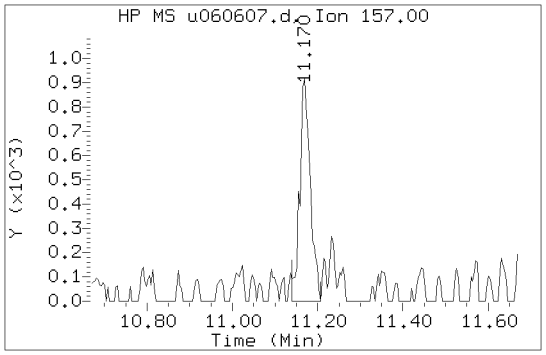
BEFORE

MASS
157
AREA
1601
HEIGHT
916
08-Jun-2023
14:56
linh
pham



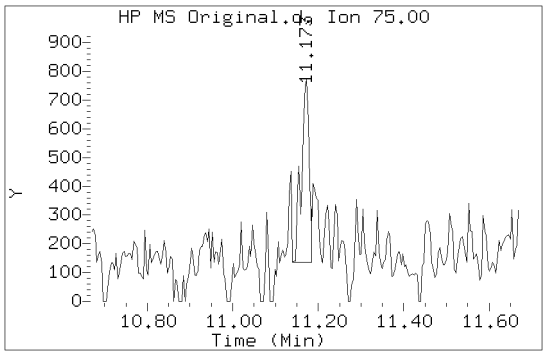
AFTER

MASS
157
AREA
1601
HEIGHT
916
21-Jun-2023
13:47
linh
pha



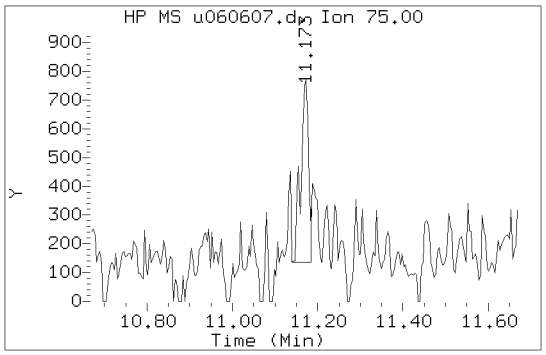
BEFORE

MASS
75
AREA
809
HEIGHT
634
08-Jun-2023
14:56
linh
pham



AFTER

MASS
75
AREA
809
HEIGHT
634
21-Jun-2023
13:47
linh
pha

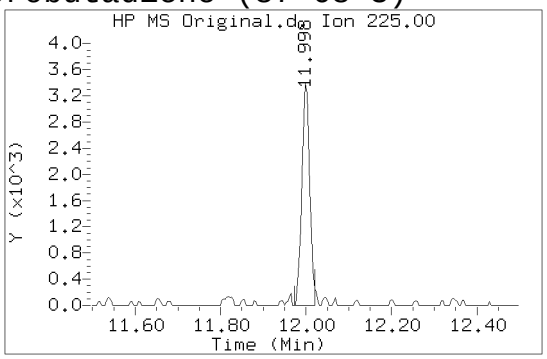


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060607.d
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

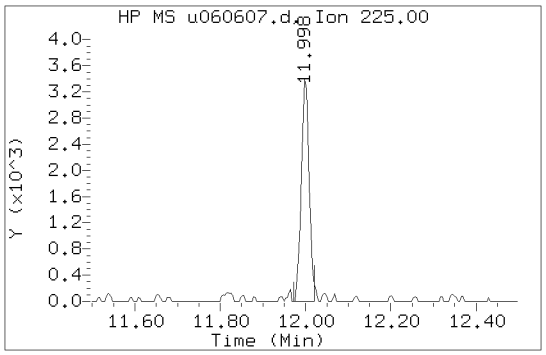
Hexachlorobutadiene (87-68-3)

Reason Code:

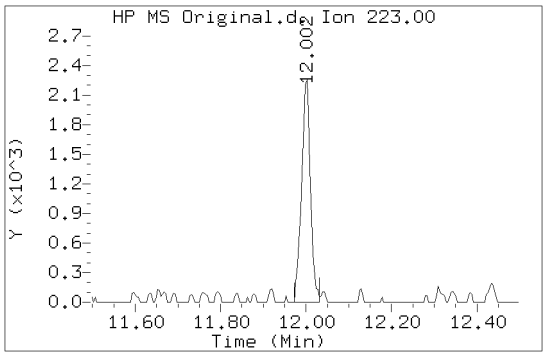
BEFORE
MASS
225
AREA
4470
HEIGHT
3386
08-Jun-2023
14:56
linh
pham



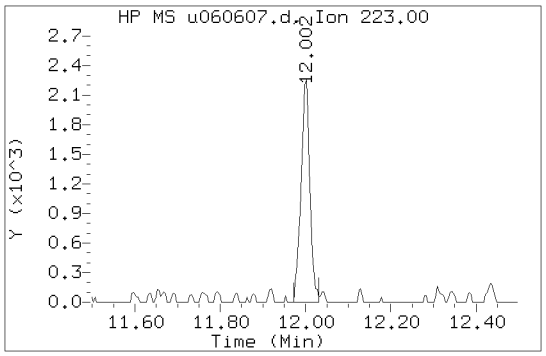
AFTER
MASS
225
AREA
4470
HEIGHT
3386
21-Jun-2023
13:47
linh
pha



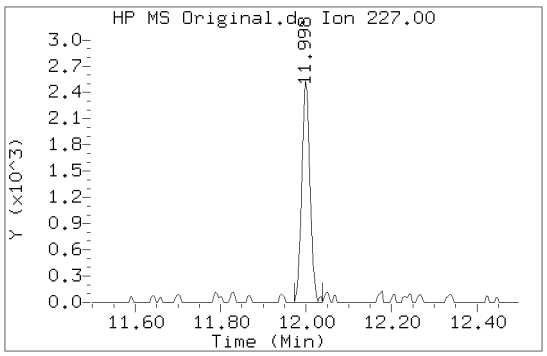
BEFORE
MASS
223
AREA
3352
HEIGHT
2254
08-Jun-2023
14:56
linh
pham



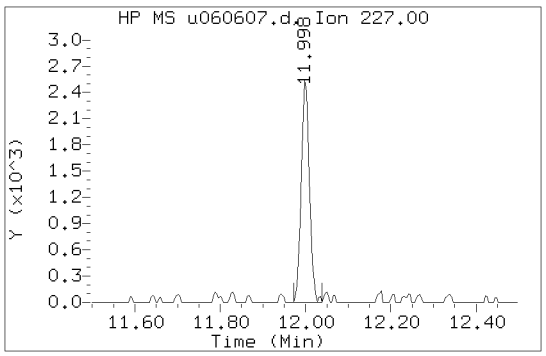
AFTER
MASS
223
AREA
3352
HEIGHT
2254
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
227
AREA
3477
HEIGHT
2534
08-Jun-2023
14:56
linh
pham



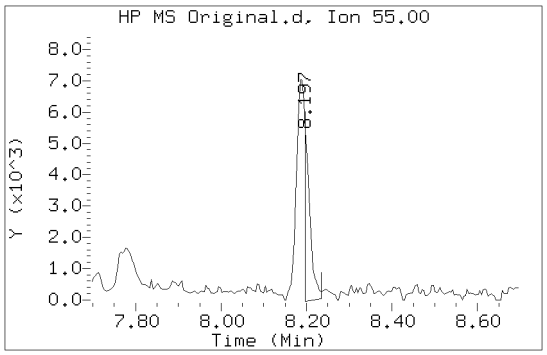
AFTER
MASS
227
AREA
3477
HEIGHT
2534
21-Jun-2023
13:47
linh
pha



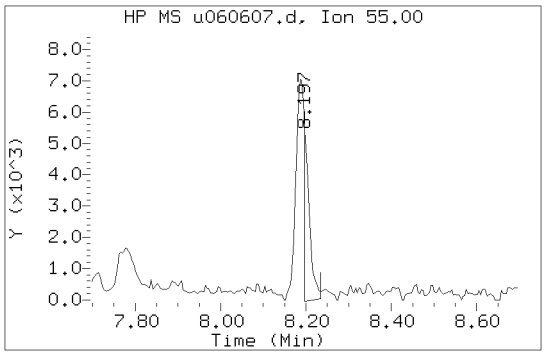
1-Chlorohexane (544-10-5)

Reason Code:

BEFORE
MASS
55
AREA
4887
HEIGHT
5444
08-Jun-2023
14:56
linh
pham



AFTER
MASS
55
AREA
4887
HEIGHT
5444
21-Jun-2023
13:47
linh
pha

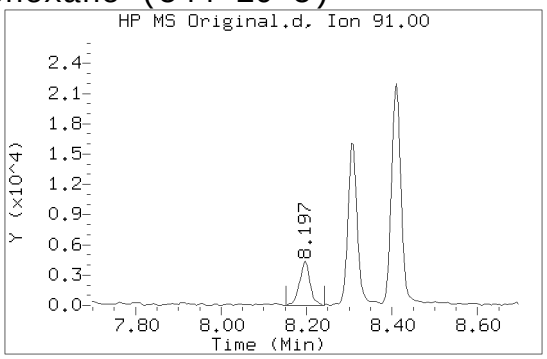


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060607.d
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

1-Chlorohexane (544-10-5)

BEFORE

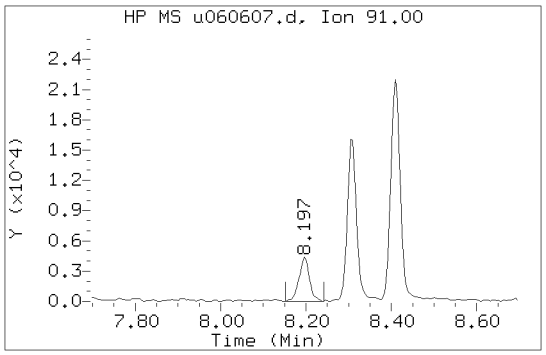
MASS
91
AREA
7655
HEIGHT
4415
08-Jun-2023
14:56
linh
pham



Reason Code:

AFTER

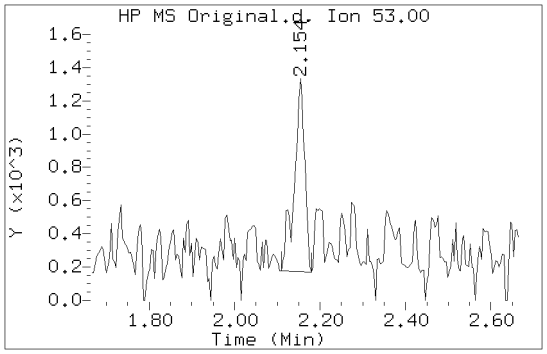
MASS
91
AREA
7655
HEIGHT
4415
21-Jun-2023
13:47
linh
pha



Chloroprene (126-99-8)

BEFORE

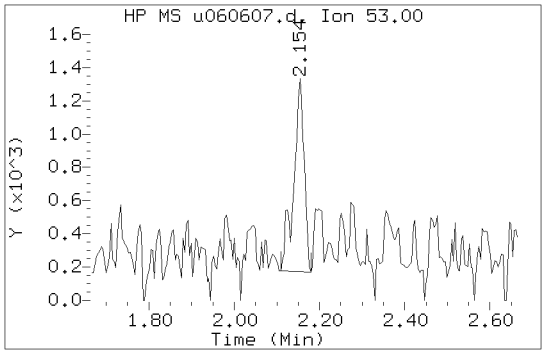
MASS
53
AREA
2027
HEIGHT
1160
08-Jun-2023
14:56
linh
pham



Reason Code:

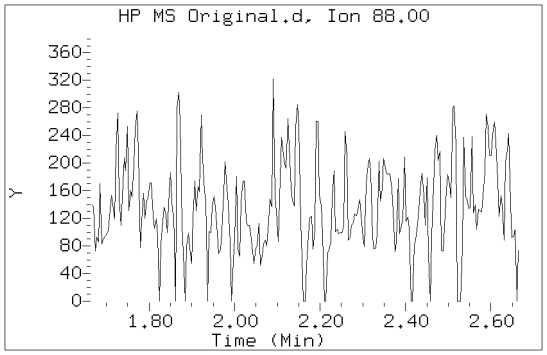
AFTER

MASS
53
AREA
2027
HEIGHT
1160
21-Jun-2023
13:47
linh
pha



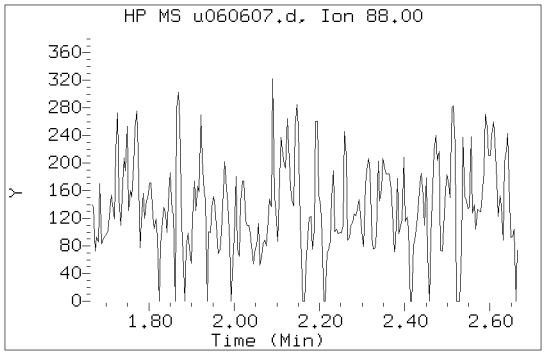
BEFORE

MASS
88
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

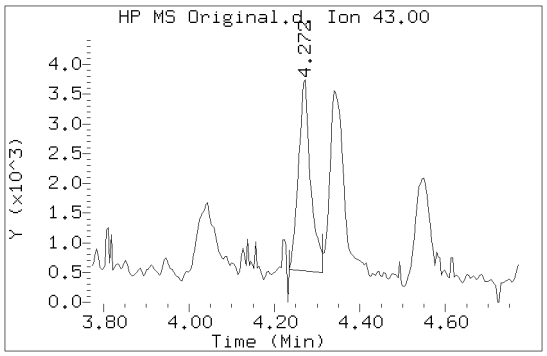
MASS
88
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



Ethyl Acetate (141-78-6)

BEFORE

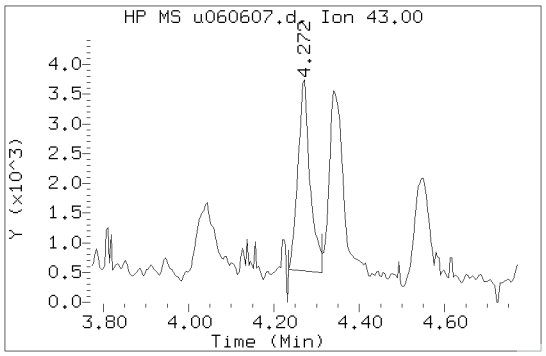
MASS
43
AREA
6476
HEIGHT
3212
08-Jun-2023
14:56
linh
pham



Reason Code:

AFTER

MASS
43
AREA
6476
HEIGHT
3212
21-Jun-2023
13:47
linh
pha



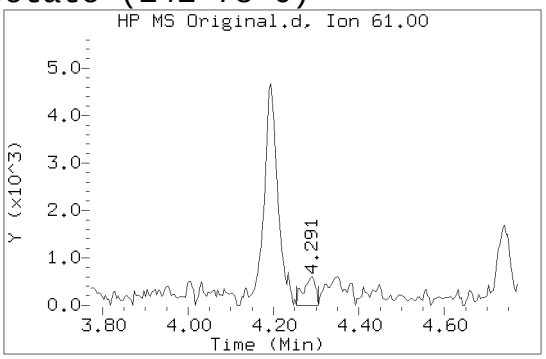
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060607.d
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

Ethyl Acetate (141-78-6)

Reason Code:

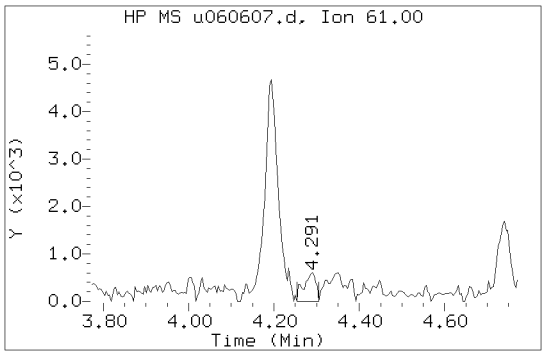
BEFORE

MASS
61
AREA
1204
HEIGHT
613
08-Jun-2023
14:56
linh
pham



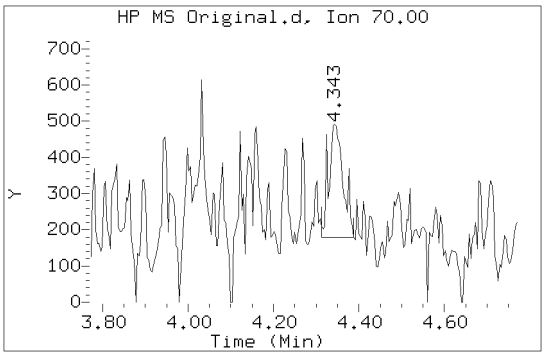
AFTER

MASS
61
AREA
1204
HEIGHT
613
21-Jun-2023
13:47
linh
pha



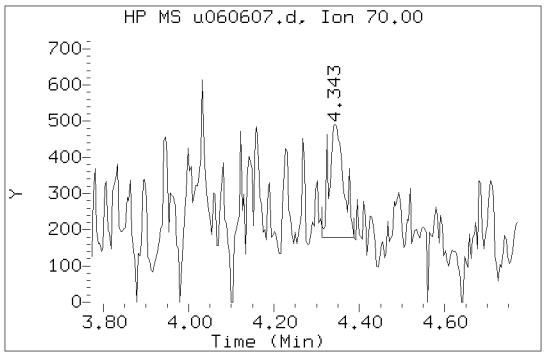
BEFORE

MASS
70
AREA
720
HEIGHT
311
08-Jun-2023
14:56
linh
pham



AFTER

MASS
70
AREA
720
HEIGHT
311
21-Jun-2023
13:47
linh
pha

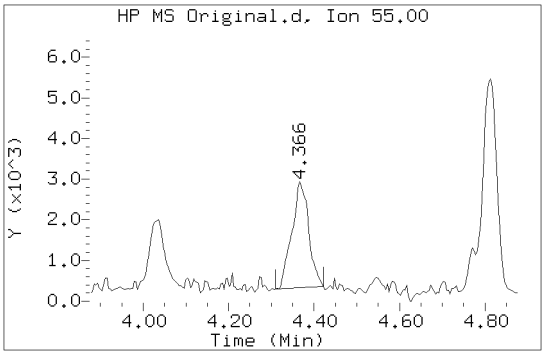


Methyl Acrylate (96-33-3)

Reason Code:

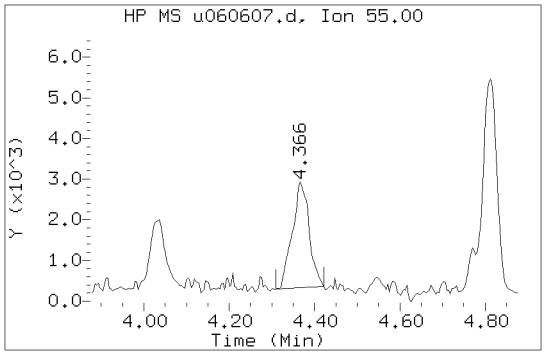
BEFORE

MASS
55
AREA
7188
HEIGHT
2604
08-Jun-2023
14:56
linh
pham



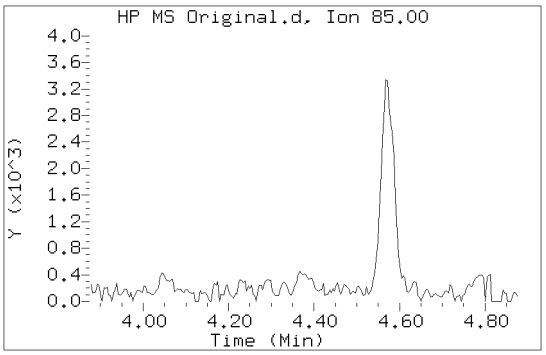
AFTER

MASS
55
AREA
7188
HEIGHT
2604
21-Jun-2023
13:47
linh
pha



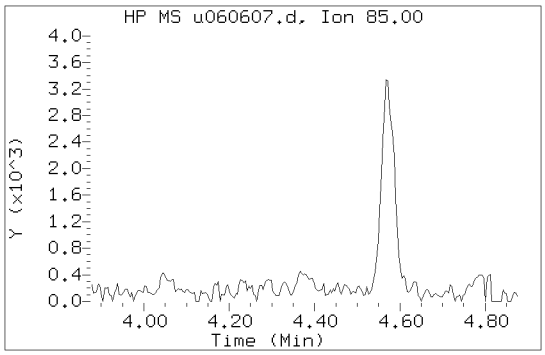
BEFORE

MASS
85
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
85
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



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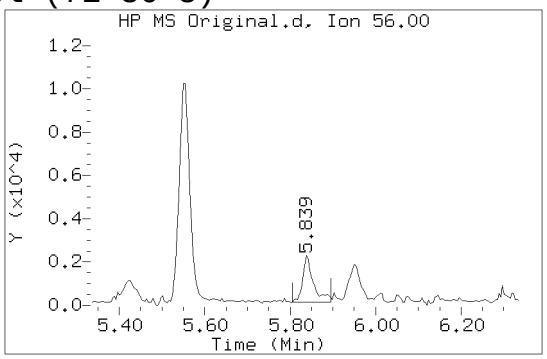
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

n-Butanol (71-36-3)

Reason Code:

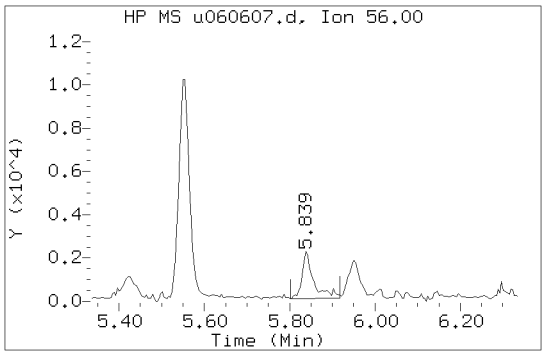
BEFORE

MASS
56
AREA
3831
HEIGHT
2179
08-Jun-2023
14:56
linh
pham



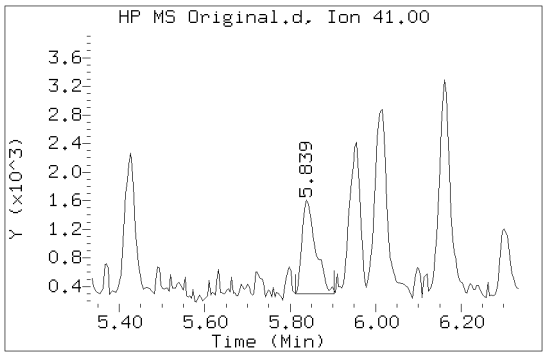
AFTER

MASS
56
AREA
4225
HEIGHT
2201
21-Jun-2023
13:47
linh
pha



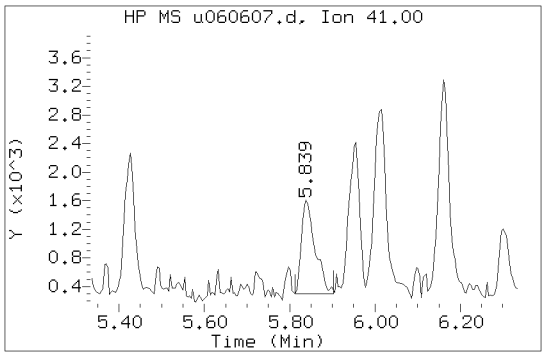
BEFORE

MASS
41
AREA
2978
HEIGHT
1310
08-Jun-2023
14:56
linh
pham



AFTER

MASS
41
AREA
2978
HEIGHT
1310
21-Jun-2023
13:47
linh
pha

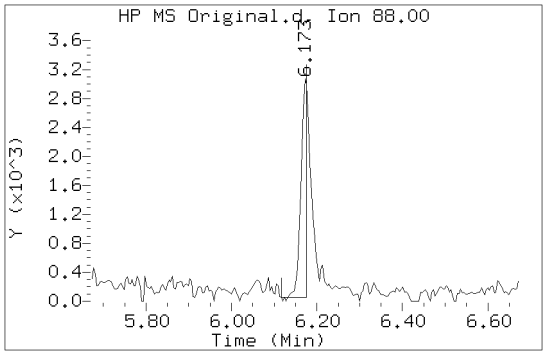


1,4-Dioxane ()

Reason Code:

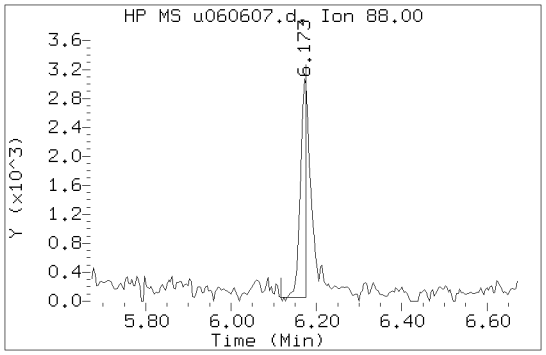
BEFORE

MASS
88
AREA
3065
HEIGHT
3017
08-Jun-2023
14:56
linh
pham



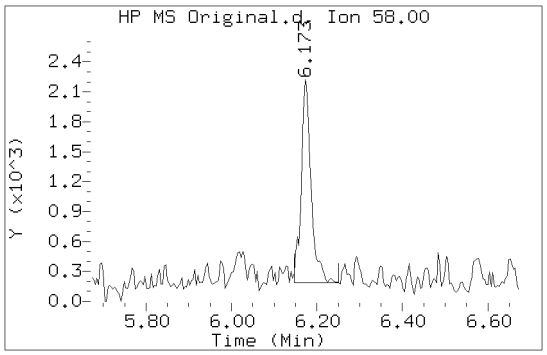
AFTER

MASS
88
AREA
3065
HEIGHT
3017
21-Jun-2023
13:47
linh
pha



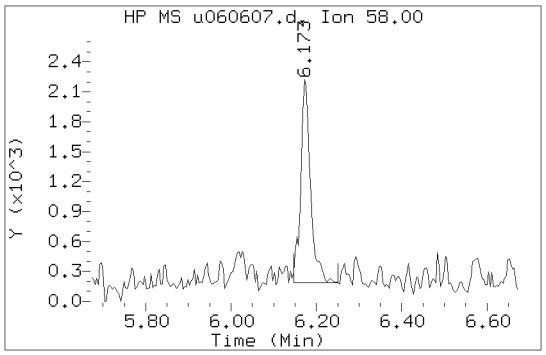
BEFORE

MASS
58
AREA
3335
HEIGHT
2036
08-Jun-2023
14:56
linh
pham



AFTER

MASS
58
AREA
3335
HEIGHT
2036
21-Jun-2023
13:47
linh
pha



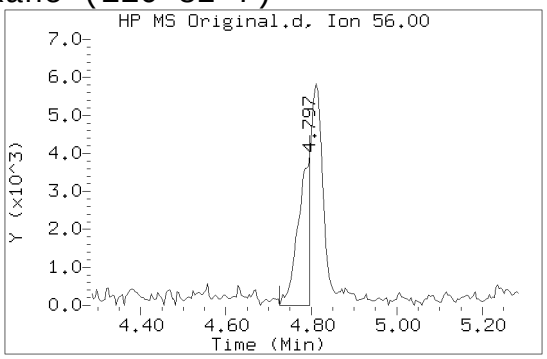
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060607.d
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

Cyclohexane (110-82-7)

Reason Code:

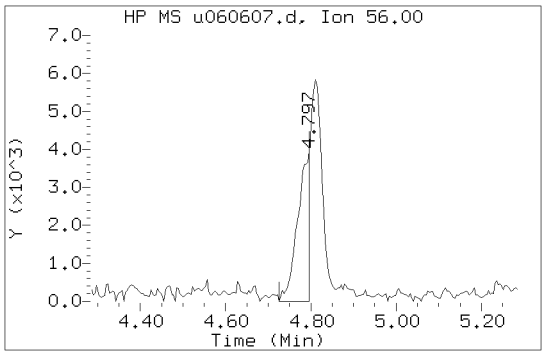
BEFORE

MASS
56
AREA
7781
HEIGHT
3965
08-Jun-2023
14:56
linh
pham



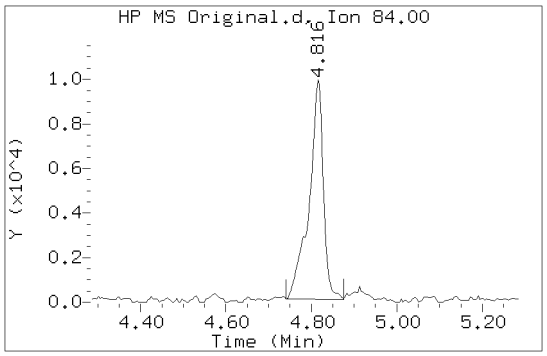
AFTER

MASS
56
AREA
7781
HEIGHT
3965
21-Jun-2023
13:47
linh
pha



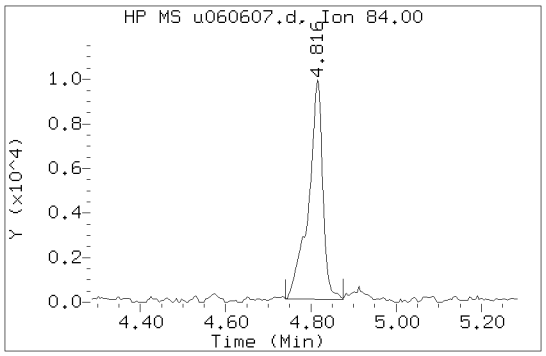
BEFORE

MASS
84
AREA
22992
HEIGHT
9843
08-Jun-2023
14:56
linh
pham



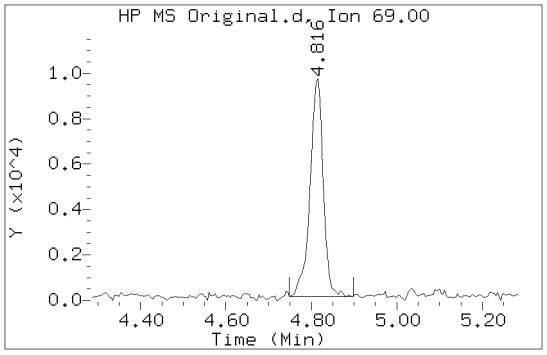
AFTER

MASS
84
AREA
22992
HEIGHT
9843
21-Jun-2023
13:47
linh
pha



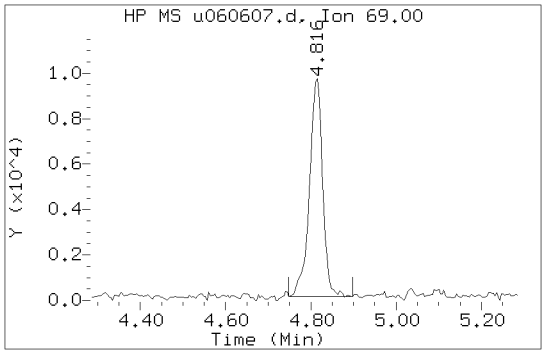
BEFORE

MASS
69
AREA
20740
HEIGHT
9600
08-Jun-2023
14:56
linh
pham



AFTER

MASS
69
AREA
20740
HEIGHT
9600
21-Jun-2023
13:47
linh
pha

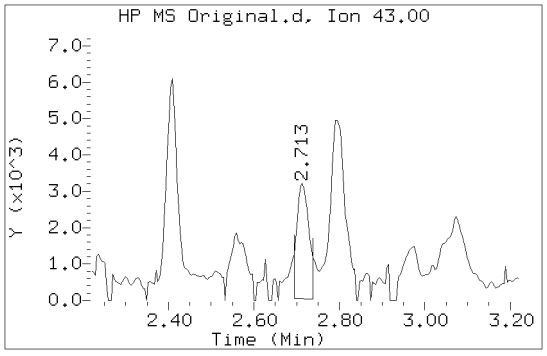


Methyl Acetate (79-20-9)

Reason Code:

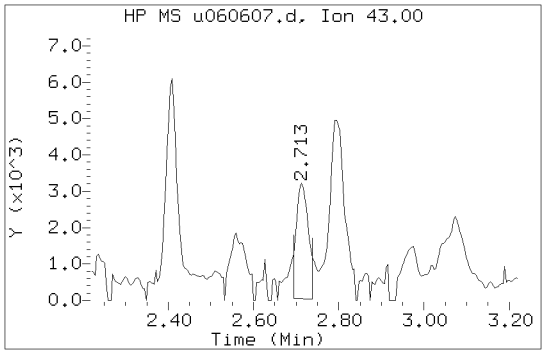
BEFORE

MASS
43
AREA
6421
HEIGHT
3170
08-Jun-2023
14:56
linh
pham



AFTER

MASS
43
AREA
6421
HEIGHT
3170
21-Jun-2023
13:47
linh
pha

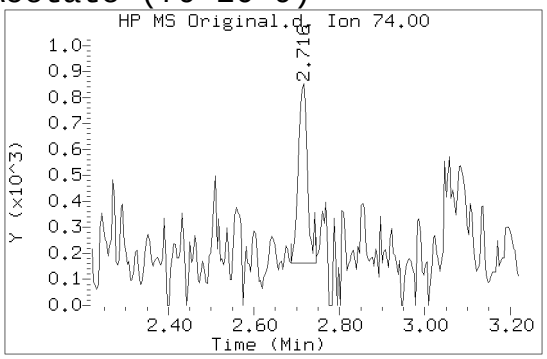


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060607.d
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

Methyl Acetate (79-20-9)

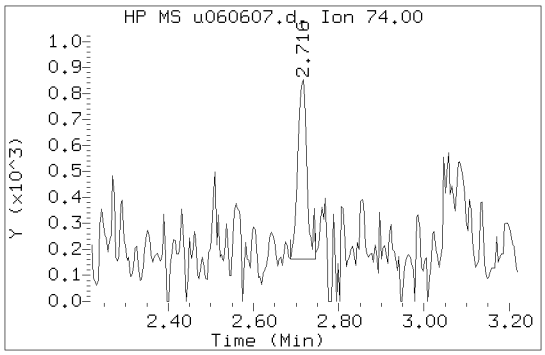
BEFORE

MASS
74
AREA
1042
HEIGHT
689
08-Jun-2023
14:56
linh
pham



AFTER

MASS
74
AREA
1042
HEIGHT
689
21-Jun-2023
13:47
linh
pha

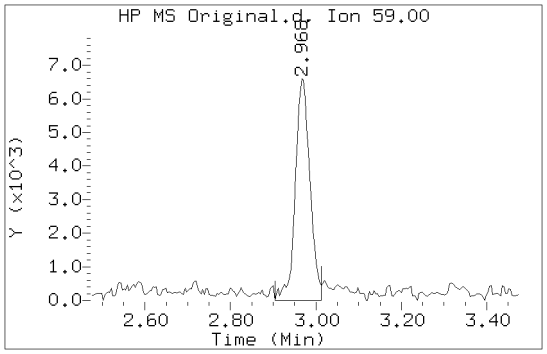


Reason Code:

Tert-Butyl alcohol (75-65-0)

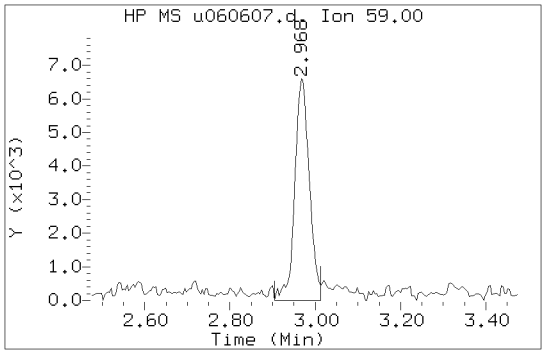
BEFORE

MASS
59
AREA
16016
HEIGHT
6600
08-Jun-2023
14:56
linh
pham



AFTER

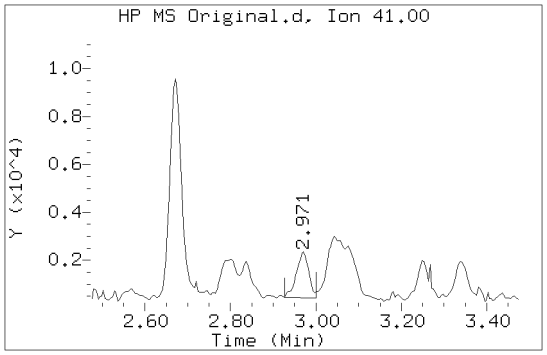
MASS
59
AREA
16016
HEIGHT
6600
21-Jun-2023
13:47
linh
pha



Reason Code:

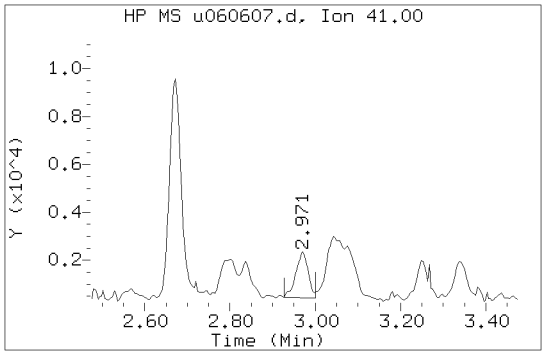
BEFORE

MASS
41
AREA
3907
HEIGHT
1899
08-Jun-2023
14:56
linh
pham



AFTER

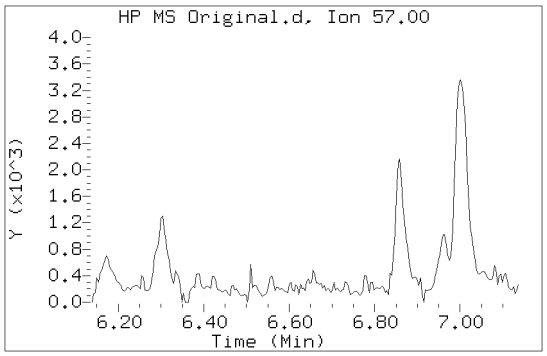
MASS
41
AREA
3907
HEIGHT
1899
21-Jun-2023
13:47
linh
pha



Epichlorohydrin (106-89-8)

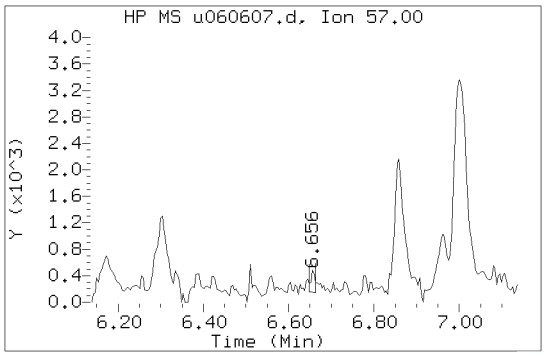
BEFORE

MASS
57
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
57
AREA
230
HEIGHT
333
21-Jun-2023
13:47
linh
pha



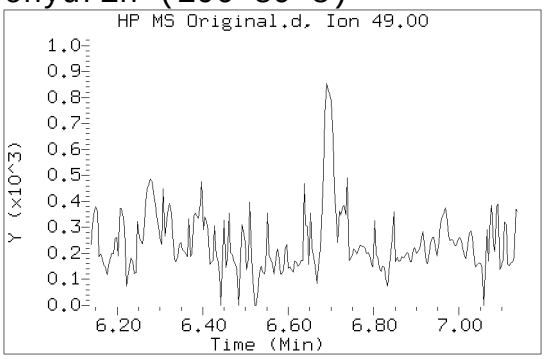
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060607.d
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

Epichlorohydrin (106-89-8)

Reason Code:

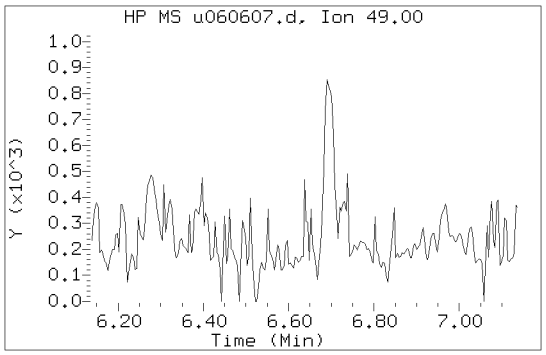
BEFORE

MASS
49
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
49
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

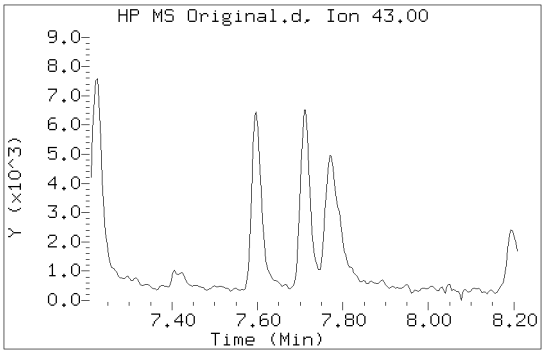


n-Butyl acetate (123-86-4)

Reason Code:

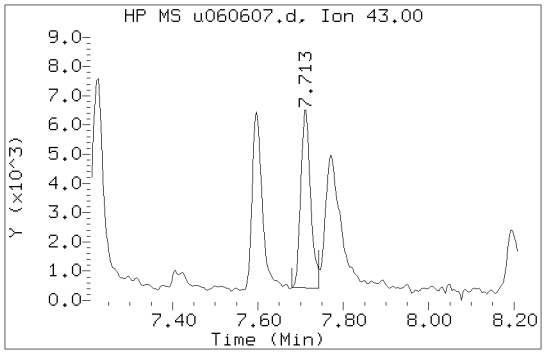
BEFORE

MASS
43
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



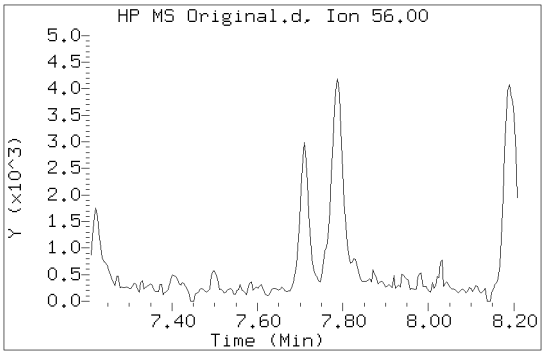
AFTER

MASS
43
AREA
10025
HEIGHT
6077
21-Jun-2023
13:47
linh
pha



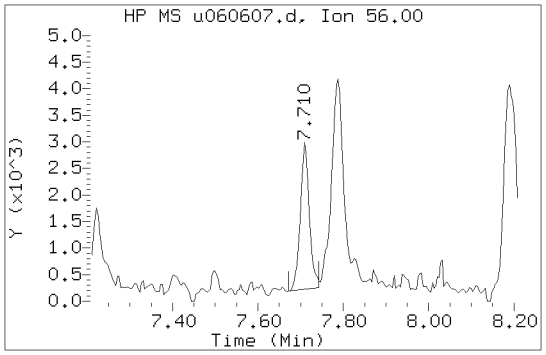
BEFORE

MASS
56
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



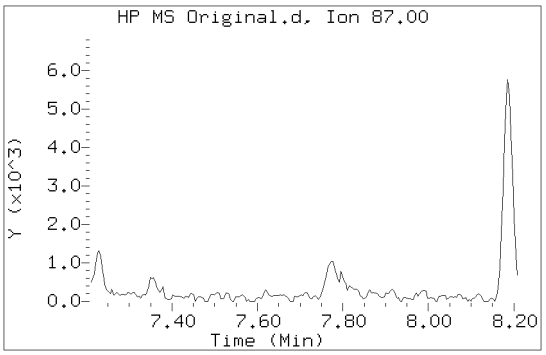
AFTER

MASS
56
AREA
4189
HEIGHT
2770
21-Jun-2023
13:47
linh
pha



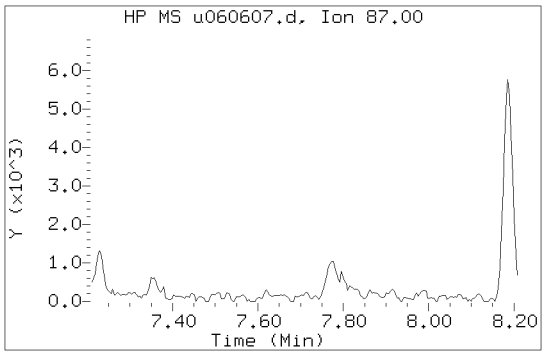
BEFORE

MASS
87
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
87
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

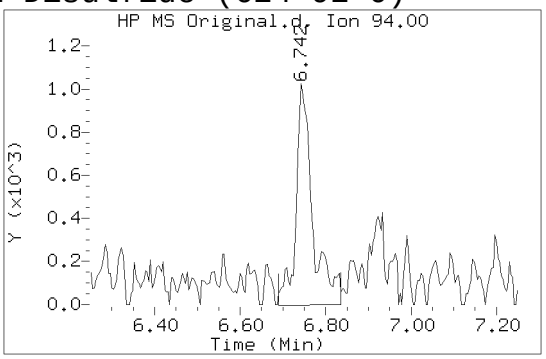


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060607.d
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

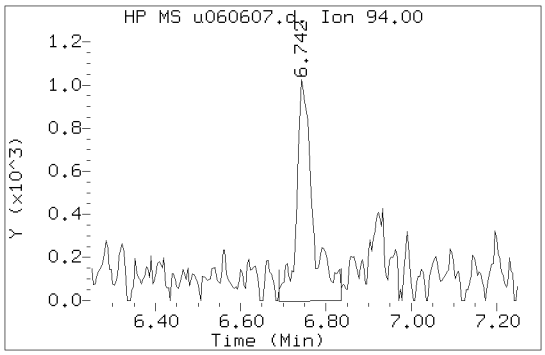
Dimethyl Disulfide (624-92-0)

Reason Code:

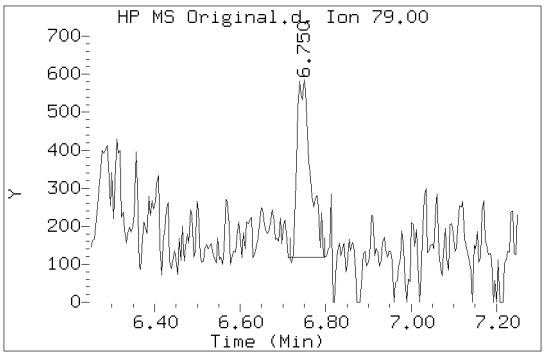
BEFORE
MASS
94
AREA
2841
HEIGHT
1027
08-Jun-2023
14:56
linh
pham



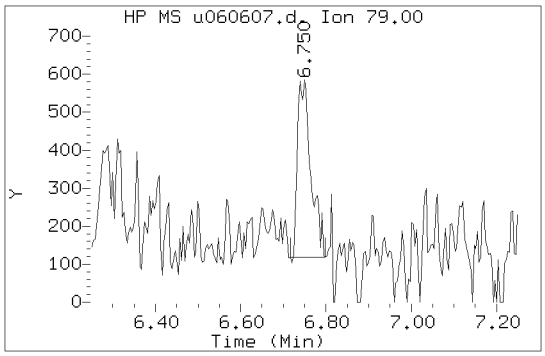
AFTER
MASS
94
AREA
2841
HEIGHT
1027
21-Jun-2023
13:47
linh
pha



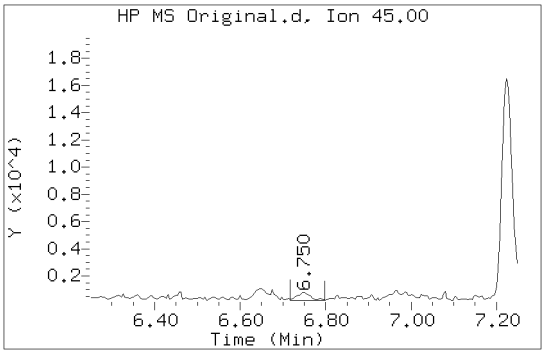
BEFORE
MASS
79
AREA
1040
HEIGHT
467
08-Jun-2023
14:56
linh
pham



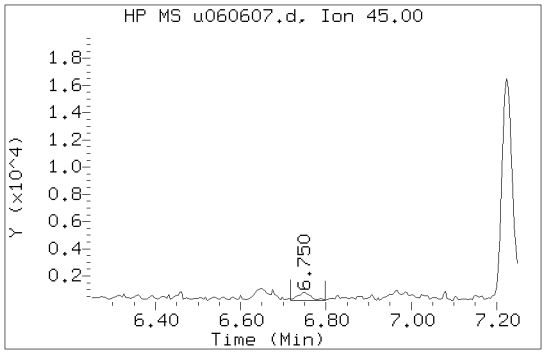
AFTER
MASS
79
AREA
1040
HEIGHT
467
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
45
AREA
1197
HEIGHT
562
08-Jun-2023
14:56
linh
pham



AFTER
MASS
45
AREA
1197
HEIGHT
562
21-Jun-2023
13:47
linh
pha



2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

BEFORE
MASS
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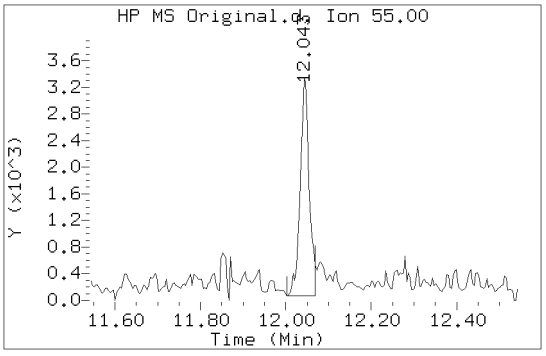
AREA
4963
HEIGHT
3262
08-Jun-2023
14:56
linh
pham



AFTER
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21-Jun-2023
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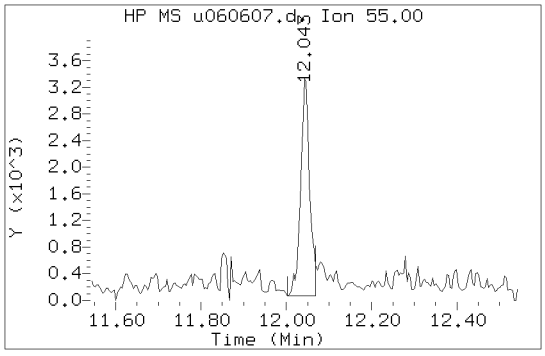

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Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

BEFORE

MASS
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AREA
3909
HEIGHT
2125
08-Jun-2023
14:56
linh
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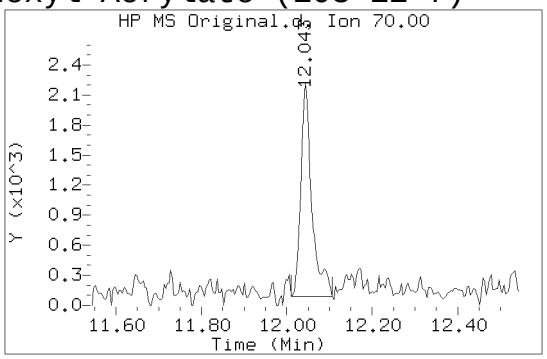
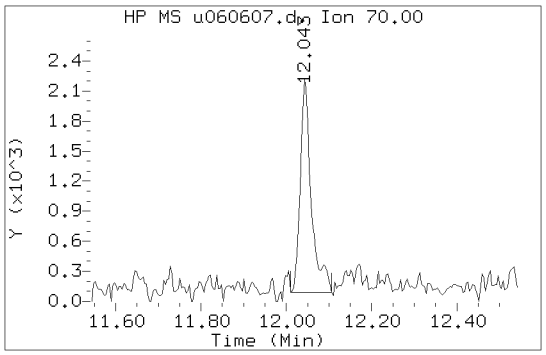


AFTER

MASS
70
AREA
3909
HEIGHT
2125
21-Jun-2023
13:47
linh
pha



ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060608.D
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Inj Date : 06-JUN-2023 13:50
Operator : PC Inst ID: VOA9.i
Smp Info : VSTD002;VSTD002;1;4;
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
Meth Date : 13-Jun-2023 13:01 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 13:28 Cal File: U060607.D
Als bottle: 9 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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)	654680	50.0000	
2	Dichlorodifluoromethane	85	1.171	1.171	(0.243)	8519	2.00000	1.48(a)
3	Chloromethane	50	1.303	1.303	(0.270)	24280	2.00000	1.17(a)
5	Vinyl Chloride	62	1.385	1.385	(0.288)	12806	2.00000	1.84(a)
6	Bromomethane	94	1.629	1.629	(0.338)	9237	2.00000	0.85(a)
7	Chloroethane	64	1.708	1.708	(0.354)	8750	2.00000	1.87(a)
8	Trichlorofluoromethane	101	1.902	1.902	(0.395)	13346	2.00000	1.67(a)
10	Acetone	43	2.420	2.420	(0.502)	18337	4.00000	2.91(a)
11	1,1-Dichloroethene	96	2.341	2.341	(0.486)	8887	2.00000	1.78(a)
15	Iodomethane	142	2.480	2.480	(0.515)	5244	4.00000	11.12(M)
17	Methylene Chloride	84	2.802	2.802	(0.582)	14226	2.00000	1.40(a)
18	Methyl tert-butyl ether	73	3.087	3.087	(0.641)	27827	2.00000	1.82(a)
19	Carbon Disulfide	76	2.528	2.528	(0.525)	47817	4.00000	3.59(a)
20	trans-1,2-Dichloroethene	96	3.068	3.068	(0.637)	10209	2.00000	1.88(a)
21	Vinyl Acetate	43	3.616	3.616	(0.750)	59931	4.00000	3.63(a)
22	1,1-Dichloroethane	63	3.522	3.522	(0.731)	20288	2.00000	1.97(a)
24	2-Butanone	43	4.279	4.279	(0.888)	11638	4.00000	3.89(a)
26	2,2-Dichloropropane	77	4.182	4.182	(0.868)	12294	2.00000	2.19(a)
27	cis-1,2-Dichloroethene	96	4.204	4.204	(0.872)	12235	2.00000	1.89(a)
28	Chloroform	83	4.579	4.579	(0.950)	20897	2.00000	1.95(a)

	29 Bromochloromethane	128	4.474	4.474 (0.928)	6927	2.00000	1.91(a)
$	30 Dibromofluoromethane	113	4.755	4.755 (0.987)	10602	2.00000	1.62(a)

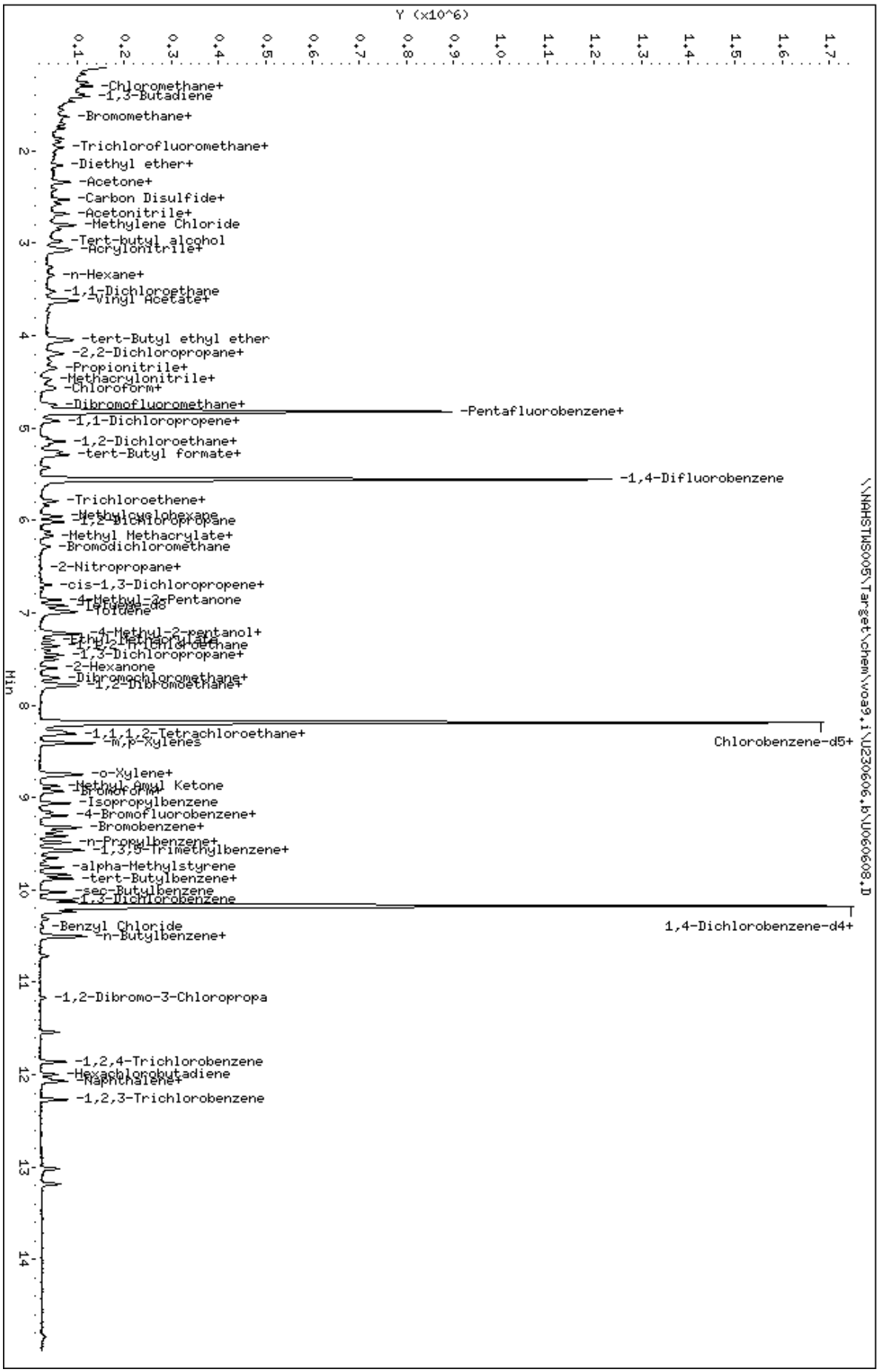
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	13786	2.00000	1.69(a)
	32 1,1-Dichloropropene	75	4.928	4.928	(0.887)	12050	2.00000	1.70(a)
	33 1,2-Dichloroethane	62	5.183	5.183	(0.933)	17690	2.00000	2.12(a)
	34 Carbon Tetrachloride	117	4.916	4.916	(0.885)	10294	2.00000	1.58(a)
$	35 1,2-Dichloroethane-d4	65	5.104	5.104	(1.059)	11855	2.00000	1.33(a)
*	36 1,4-Difluorobenzene	114	5.557	5.557	(1.000)	962707	50.0000	
	37 Benzene	78	5.141	5.141	(0.925)	46993	2.00000	2.02(a)
	38 Trichloroethene	130	5.794	5.794	(1.042)	12341	2.00000	1.83(a)
	39 Bromodichloromethane	83	6.281	6.281	(1.130)	12700	2.00000	1.75(a)
	42 1,2-Dichloropropane	63	6.015	6.015	(1.082)	12117	2.00000	1.95(a)
	44 Dibromomethane	93	6.123	6.123	(1.102)	7782	2.00000	1.96(a)
	45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	30250	4.00000	4.57(a)
	46 cis-1,3-Dichloropropene	75	6.697	6.697	(1.205)	12842	2.00000	3.18(a)
*	47 Chlorobenzene-d5	117	8.189	8.189	(1.000)	907233	50.0000	
$	48 Toluene-d8	98	6.926	6.926	(0.846)	36710	2.00000	1.78(a)
	50 Toluene	91	6.986	6.986	(0.853)	45011	2.00000	1.82(a)
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.295)	12660	2.00000	3.51(aM)
	52 2-Hexanone	43	7.597	7.597	(0.928)	23033	4.00000	5.00
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.898)	10667	2.00000	2.08(a)
	54 1,3-Dichloropropane	76	7.503	7.503	(0.916)	21098	2.00000	2.01(a)
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	10276	2.00000	1.69(a)
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	11347	2.00000	1.89(a)
	57 1,2-Dibromoethane	107	7.788	7.788	(0.951)	12823	2.00000	2.03(a)
	58 1-Chlorohexane	55	8.189	8.189	(1.473)	9554	2.00000	1.93(aM)
	59 Chlorobenzene	112	8.211	8.211	(1.003)	36163	2.00000	2.05(a)
	60 1,1,1,2-Tetrachloroethane	131	8.286	8.286	(1.012)	11696	2.00000	1.93(a)
	61 Ethylbenzene	106	8.309	8.309	(1.015)	13970	2.00000	1.70(a)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	33831	4.00000	3.49(aM)
	63 o-Xylene	106	8.748	8.748	(1.068)	16529	2.00000	1.73(a)
	64 Styrene	104	8.766	8.766	(1.070)	26887	2.00000	1.77(a)
	66 Bromoform	173	8.920	8.920	(1.089)	7583	2.00000	1.84(a)
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	39716	2.00000	1.73(a)
	68 1,1,2,2-Tetrachloroethane	83	9.332	9.332	(0.917)	21290	2.00000	2.41(aM)
$	69 4-Bromofluorobenzene	95	9.197	9.197	(1.123)	16728	2.00000	1.19(a)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	468121	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	17163	2.00000	2.21(aM)
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	42411	2.00000	1.72(a)
	74 Bromobenzene	156	9.317	9.317	(0.916)	17200	2.00000	2.17(a)
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	31762	2.00000	1.88(a)
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	34904	2.00000	2.02(a)
	77 4-Chlorotoluene	91	9.580	9.580	(0.942)	39709	2.00000	2.07(a)
	78 tert-Butylbenzene	119	9.838	9.838	(0.967)	29666	2.00000	1.79(a)
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	37613	2.00000	2.13(a)
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	35689	2.00000	1.70(a)
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	31988	2.00000	1.81(a)
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	29086	2.00000	2.16(a)
	84 1,4-Dichlorobenzene	146	10.195	10.195	(1.002)	31674	2.00000	2.21(aM)
	87 n-Butylbenzene	91	10.494	10.494	(1.032)	27289	2.00000	1.81(a)
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	30371	2.00000	2.25(a)
	89 1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	2819	2.00000	2.19(a)
	90 1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	19713	2.00000	2.13(a)
	93 1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	20459	2.00000	2.26(a)

M	94	1,2-Dichloroethylene (total)	96			22444	4.00000	(a)
	135	1,4-Dioxane	88	6.176	6.176 (1.282)	5764	40.0000	44.34(aM)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
141 Cyclohexane	56	4.785	4.785	(0.993)	8877	2.00000	1.31(aMH)
138 Freon TF	101	2.341	2.341	(0.486)	6997	2.00000	1.59(aM)
140 1,3-Butadiene	54	1.408	1.408	(0.292)	11039	2.00000	1.78(a)
147 Methylcyclohexane	55	5.955	5.955	(1.071)	22206	2.00000	1.66(a)
146 Methyl Acetate	43	2.723	2.723	(0.565)	12288	2.00000	2.22(a)
148 Tert-Butyl alcohol	59	2.978	2.978	(0.618)	34487	40.0000	52.33
149 Isopropyl Alcohol	45	2.573	2.573	(0.534)	22047	40.0000	51.51(T)
72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.145)	1936	2.00000	1.85(M)
12 Isobutyl Alcohol	43	5.295	5.295	(1.099)	31429	40.0000	36.94(M)
13 Acetonitrile	39	2.678	2.678	(0.556)	13701	20.0000	19.32
40 Methyl Methacrylate	41	6.161	6.161	(1.278)	9826	2.00000	1.74
4 Propionitrile	54	4.350	4.350	(0.903)	17197	20.0000	18.17(a)
136 n-Hexane	57	3.346	3.346	(0.694)	7179	2.00000	1.45(a)
131 Methyl Acrylate	55	4.377	4.377	(0.908)	11843	2.00000	1.71(aM)
200 Dimethyl Disulfide	94	6.746	6.746	(0.824)	4598	2.00000	5.17(M)
49 Ethyl Methacrylate	69	7.297	7.297	(1.313)	13205	2.00000	1.56(a)
166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	34972	2.00000	1.94(a)
167 Ethanol	45	2.090	2.090	(0.434)	4910	40.0000	38.64
164 Dicyclopentadiene	66	10.202	10.202	(1.003)	43120	2.00000	1.88(a)
145 alpha-Methylstyrene	118	9.756	9.756	(0.959)	14955	2.00000	5.11
156 Diisopropyl ether	45	3.627	3.627	(0.753)	35538	2.00000	1.94(Ta)
151 4-Methyl-2-pentanol	45	7.226	7.226	(1.300)	47340	40.0000	33.06
150 Allyl alcohol	57	3.346	3.346	(0.694)	7179	40.0000	29.86
86 Benzyl Chloride	91	10.315	10.315	(1.260)	11203	2.00000	5.38
162 Butyl acrylate	55	8.740	8.740	(1.067)	18210	2.00000	1.69(a)
139 Diethyl ether	59	2.154	2.154	(0.447)	8174	2.00000	1.84(a)
203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	8201	2.00000	3.58(a)
134 Cyclohexanone	55	9.156	9.156	(0.900)	11087	40.0000	38.20(a)
130 Ethyl Acetate	43	4.279	4.279	(0.888)	11855	2.00000	2.02(aM)
189 n-Butyl acetate	43	7.713	7.713	(0.942)	21837	2.00000	2.11(aM)
182 Epichlorohydrin	57	6.637	6.637	(1.194)	854	8.00000	18.93(M)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Client ID: VSTD002
Sample Info: VSTD002;VSTD002;1;4;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: PC
Column diameter: 0.18

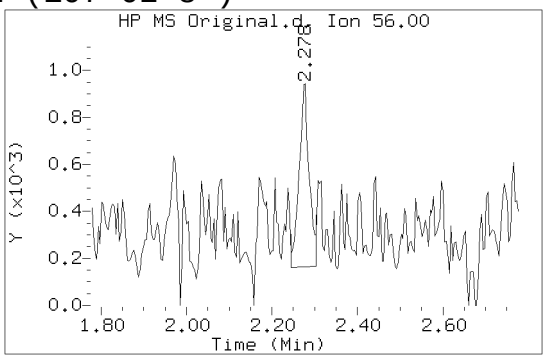
Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060608.D
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

Acrolein (107-02-8)

Reason Code:

BEFORE

MASS
56
AREA
1315
HEIGHT
779
08-Jun-2023
14:56
linh
pham



AFTER

MASS
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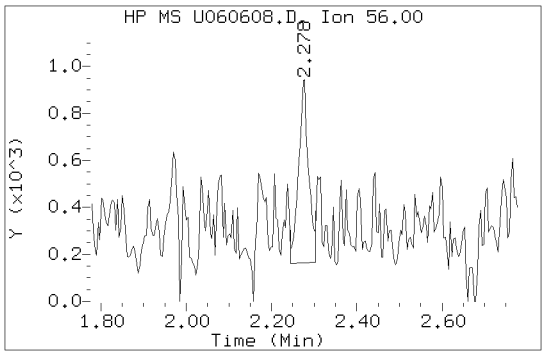
AREA
1315
HEIGHT
779
13-Jun-2023
13:00
linh
pham



BEFORE

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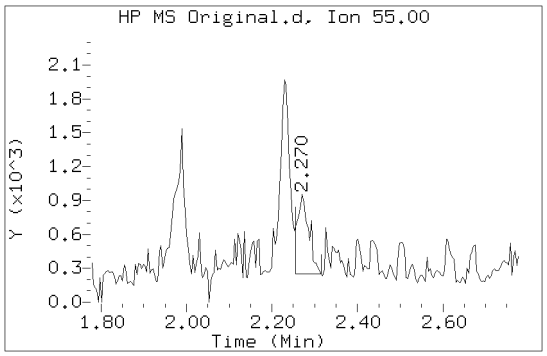

AFTER

MASS
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AREA
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706
13-Jun-2023
13:00
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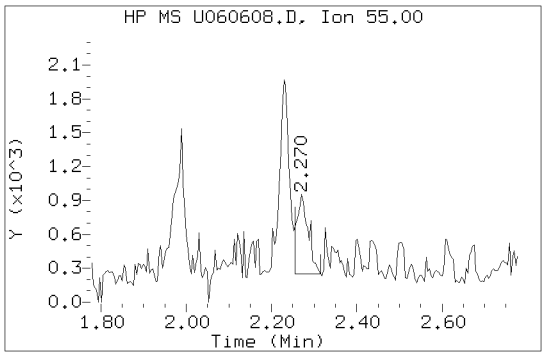
pham



Iodomethane (74-88-4)

Reason Code:

BEFORE

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AREA
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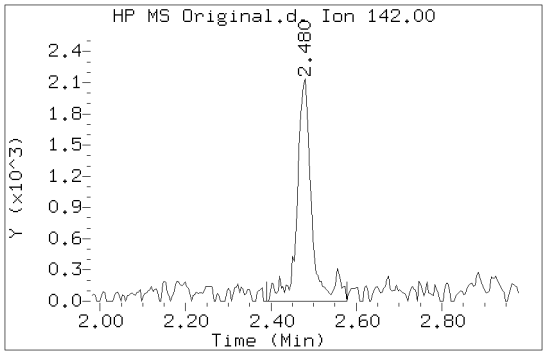
HEIGHT
2136
08-Jun-2023
14:56
linh
pham



AFTER

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13-Jun-2023
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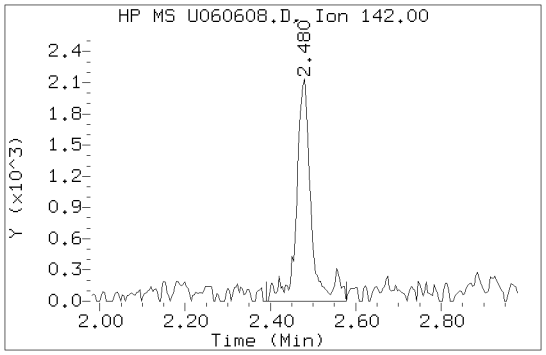

BEFORE

MASS
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AREA
2301
HEIGHT
941
08-Jun-2023
14:56
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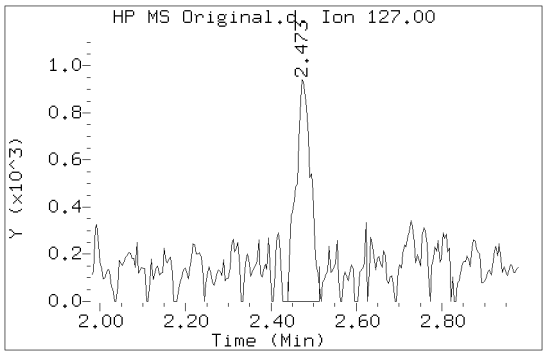
pham



AFTER

MASS
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AREA
2301
HEIGHT
941
13-Jun-2023
13:00
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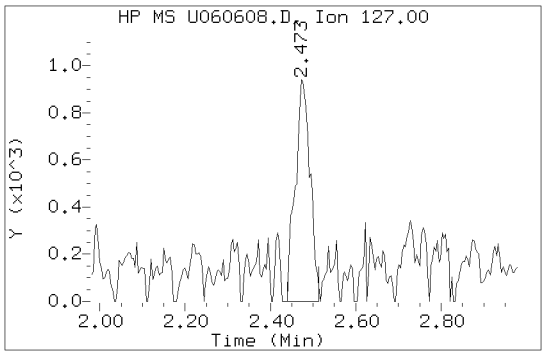
pham



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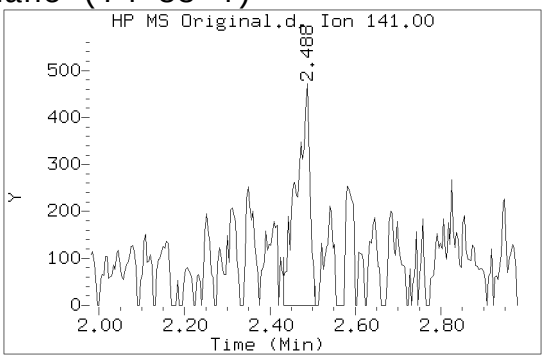
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

Iodomethane (74-88-4)

Reason Code:

BEFORE

MASS
141
AREA
1044
HEIGHT
472
08-Jun-2023
14:56
linh
pham



AFTER

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HEIGHT
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13-Jun-2023
13:00
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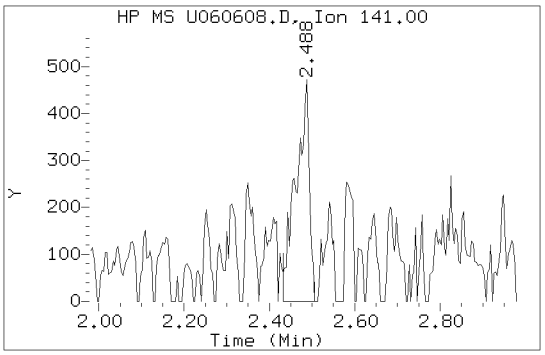
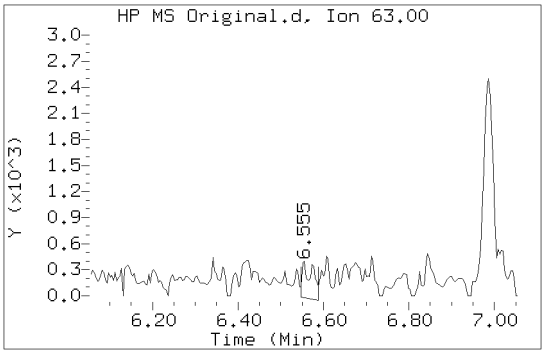


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE

MASS
63
AREA
728
HEIGHT
422
08-Jun-2023
14:56
linh
pham



AFTER

MASS
63
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728
HEIGHT
422
13-Jun-2023
13:00
linh
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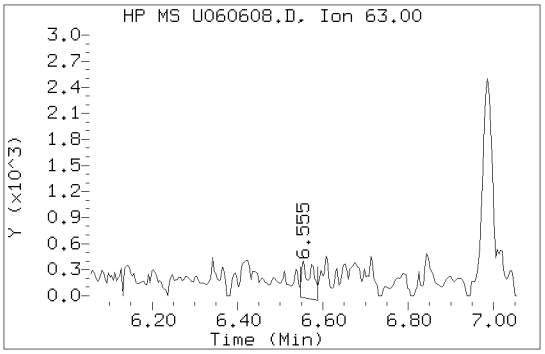

BEFORE

MASS
65
AREA
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HEIGHT
0
08-Jun-2023
14:56
linh
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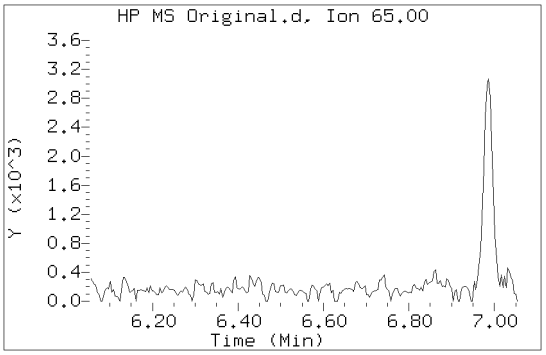

AFTER

MASS
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AREA
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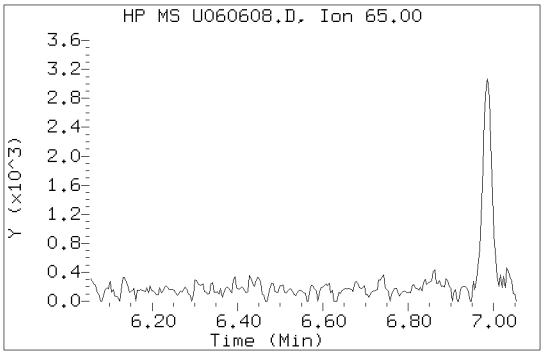
HEIGHT
0
13-Jun-2023
13:00
linh
pham



BEFORE

MASS
106
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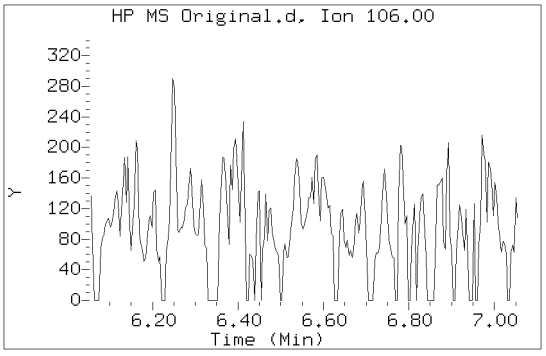
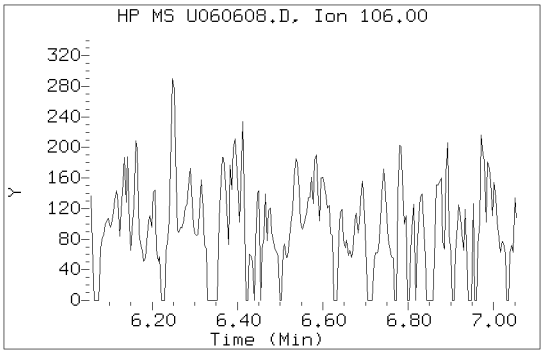
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
106
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham



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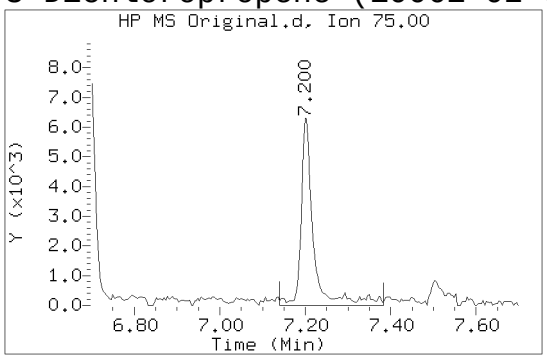
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

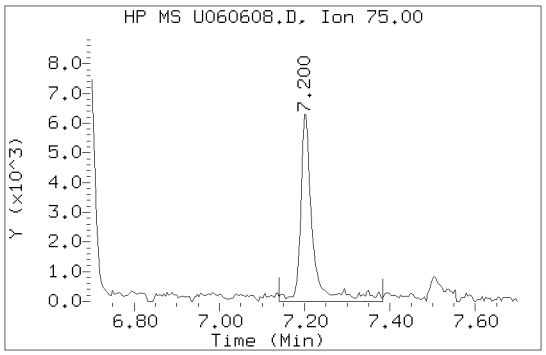
BEFORE

MASS
75
AREA
12660
HEIGHT
6296
08-Jun-2023
14:56
linh
pham



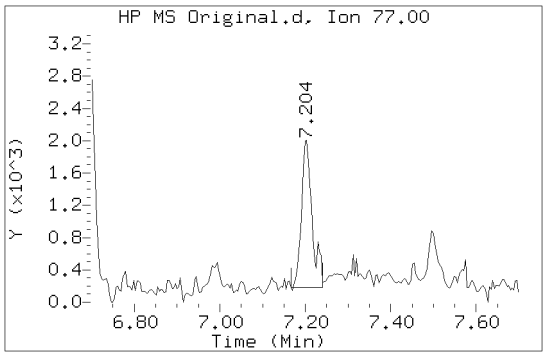
AFTER

MASS
75
AREA
12660
HEIGHT
6296
13-Jun-2023
13:00
linh
pham



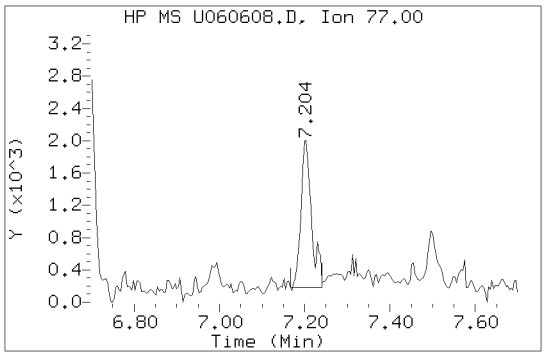
BEFORE

MASS
77
AREA
3204
HEIGHT
1827
08-Jun-2023
14:56
linh
pham



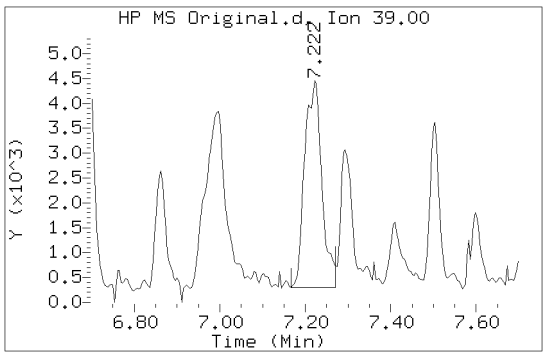
AFTER

MASS
77
AREA
3204
HEIGHT
1827
13-Jun-2023
13:00
linh
pham



BEFORE

MASS
39
AREA
11661
HEIGHT
4160
08-Jun-2023
14:56
linh
pham



AFTER

MASS
39
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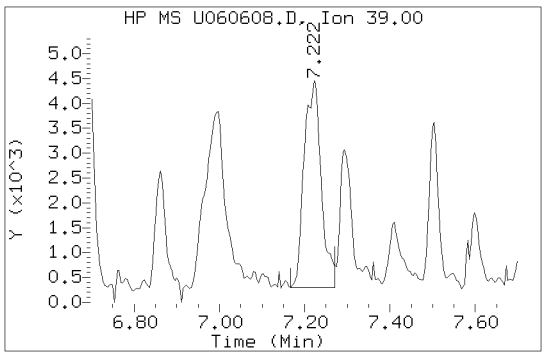
11661
HEIGHT
4160
13-Jun-2023
13:00
linh
pham

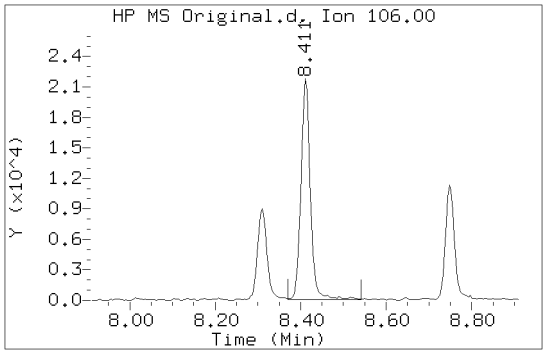


m,p-Xylenes ()

Reason Code:

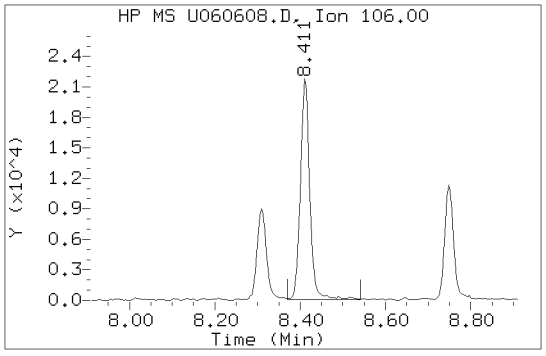
BEFORE

MASS
106
AREA
33831
HEIGHT
21724
08-Jun-2023
14:56
linh
pham



AFTER

MASS
106
AREA
33831
HEIGHT
21724
13-Jun-2023
13:00
linh
pham



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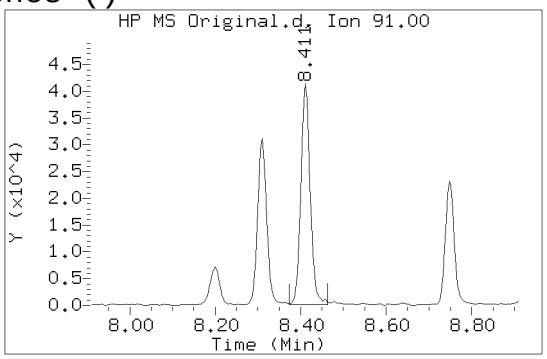
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

m,p-Xylenes ()

Reason Code:

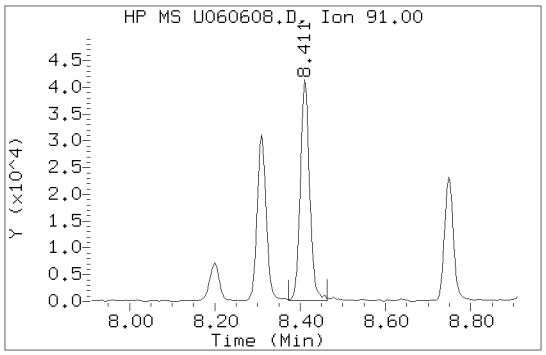
BEFORE

MASS
91
AREA
63741
HEIGHT
41264
08-Jun-2023
14:56
linh
pham



AFTER

MASS
91
AREA
63741
HEIGHT
41264
13-Jun-2023
13:00
linh
pham

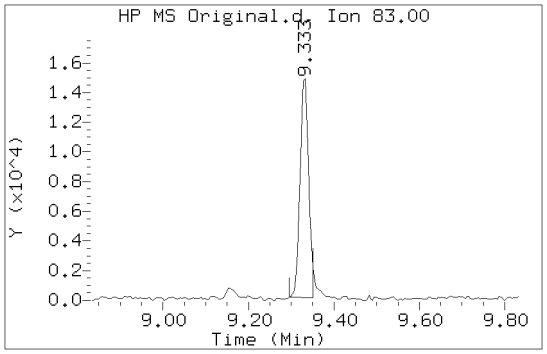


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

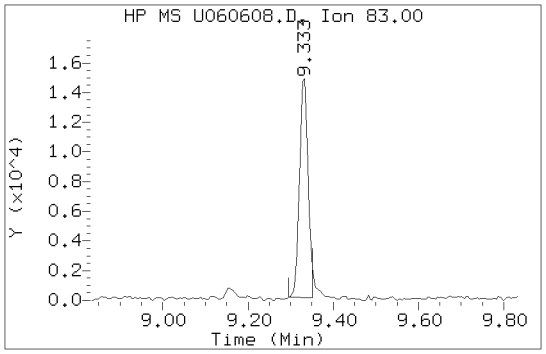
BEFORE

MASS
83
AREA
21290
HEIGHT
14748
08-Jun-2023
14:56
linh
pham



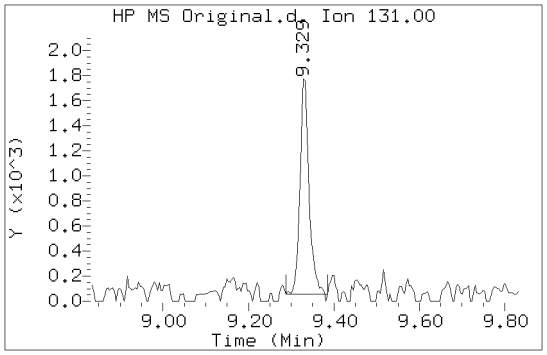
AFTER

MASS
83
AREA
21290
HEIGHT
14748
13-Jun-2023
13:00
linh
pham



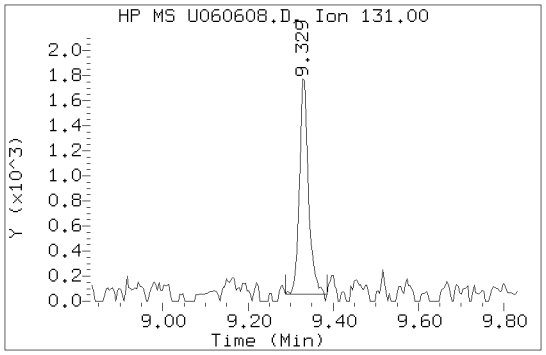
BEFORE

MASS
131
AREA
2587
HEIGHT
1718
08-Jun-2023
14:56
linh
pham



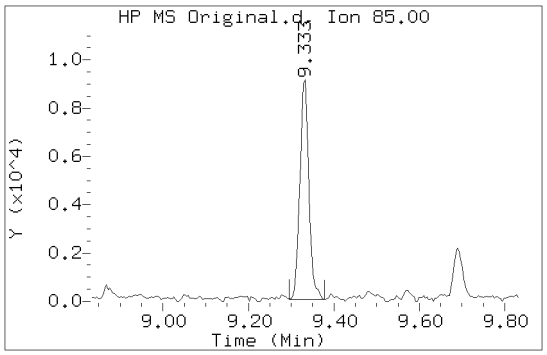
AFTER

MASS
131
AREA
2587
HEIGHT
1718
13-Jun-2023
13:00
linh
pham



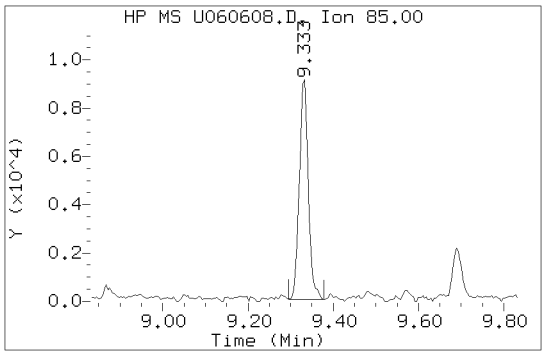
BEFORE

MASS
85
AREA
13620
HEIGHT
9094
08-Jun-2023
14:56
linh
pham



AFTER

MASS
85
AREA
13620
HEIGHT
9094
13-Jun-2023
13:00
linh
pham



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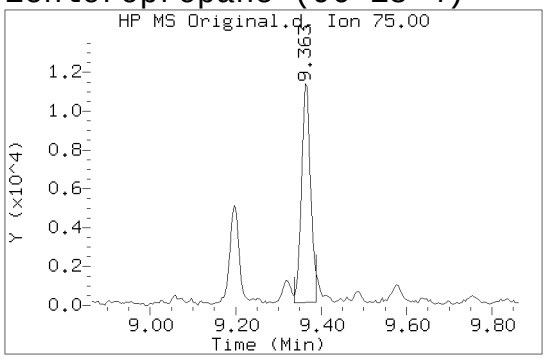
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

1,2,3-Trichloropropane (96-18-4)

Reason Code:

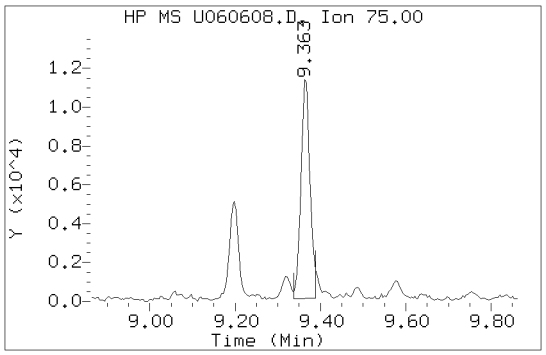
BEFORE

MASS
75
AREA
17163
HEIGHT
11263
08-Jun-2023
14:56
linh
pham



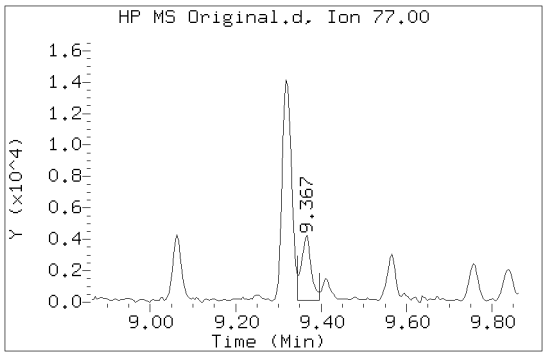
AFTER

MASS
75
AREA
17163
HEIGHT
11263
13-Jun-2023
13:00
linh
pham



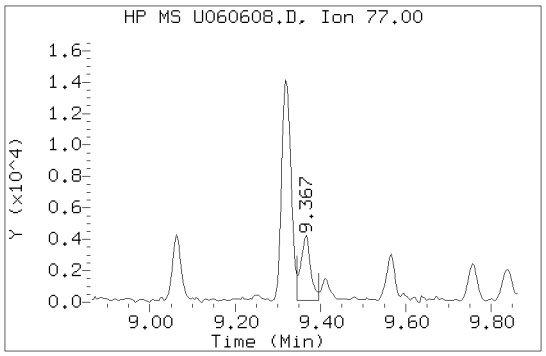
BEFORE

MASS
77
AREA
7018
HEIGHT
4115
08-Jun-2023
14:56
linh
pham



AFTER

MASS
77
AREA
7018
HEIGHT
4115
13-Jun-2023
13:00
linh
pham

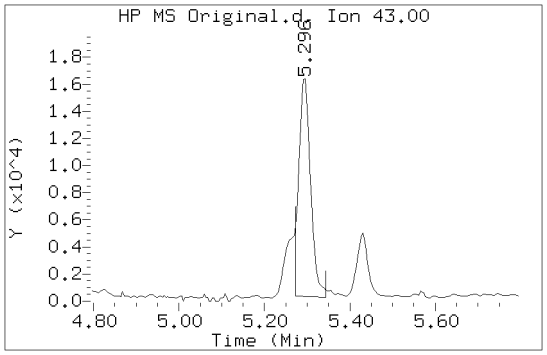


Isobutyl Alcohol (78-83-1)

Reason Code:

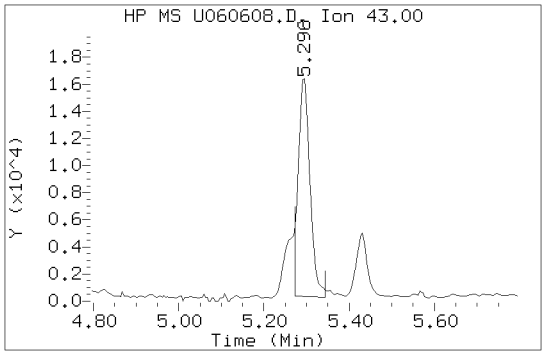
BEFORE

MASS
43
AREA
31429
HEIGHT
16036
08-Jun-2023
14:56
linh
pham



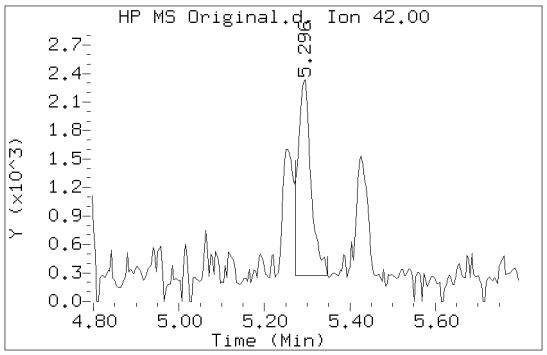
AFTER

MASS
43
AREA
31429
HEIGHT
16036
13-Jun-2023
13:00
linh
pham



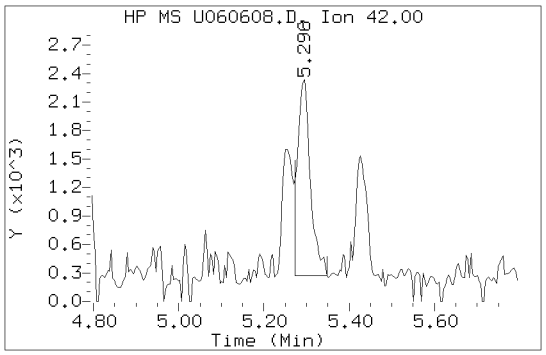
BEFORE

MASS
42
AREA
4414
HEIGHT
2065
08-Jun-2023
14:56
linh
pham



AFTER

MASS
42
AREA
4414
HEIGHT
2065
13-Jun-2023
13:00
linh
pham



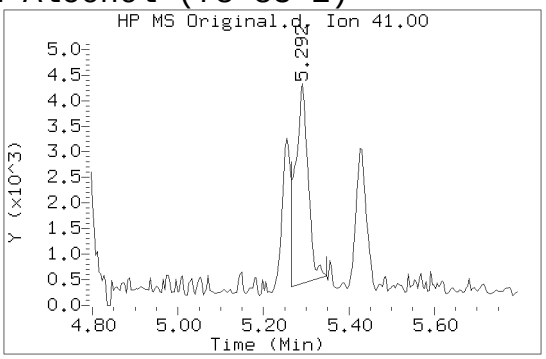
Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060608.D
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

Isobutyl Alcohol (78-83-1)

Reason Code:

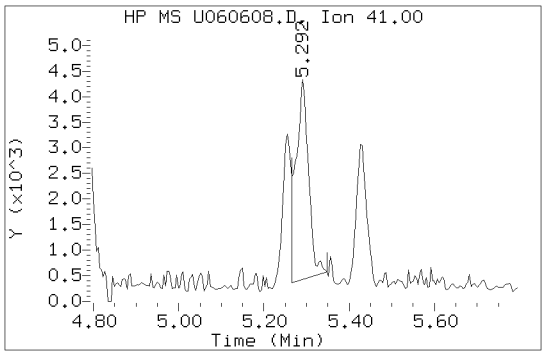
BEFORE

MASS
41
AREA
8253
HEIGHT
3899
08-Jun-2023
14:56
linh
pham



AFTER

MASS
41
AREA
8253
HEIGHT
3899
13-Jun-2023
13:00
linh
pham

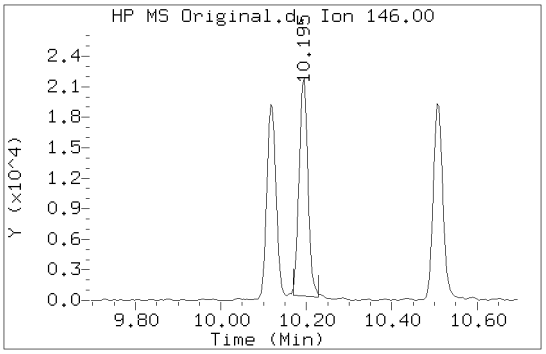


1,4-Dichlorobenzene (106-46-7)

Reason Code:

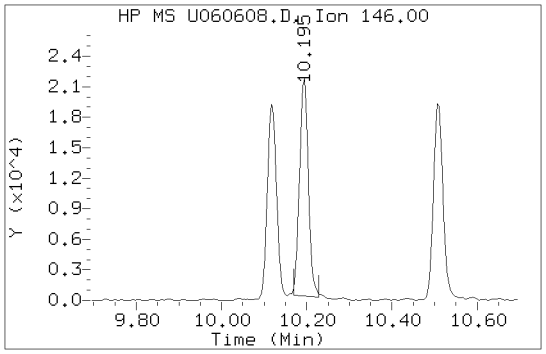
BEFORE

MASS
146
AREA
31674
HEIGHT
21370
08-Jun-2023
14:56
linh
pham



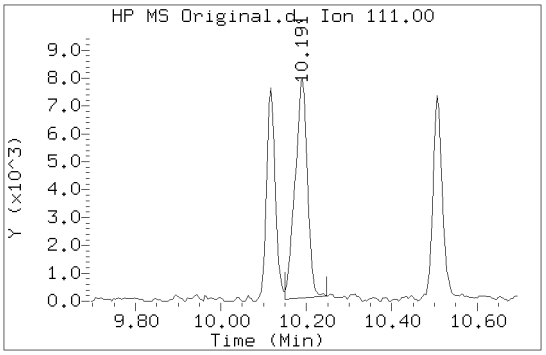
AFTER

MASS
146
AREA
31674
HEIGHT
21370
13-Jun-2023
13:00
linh
pham



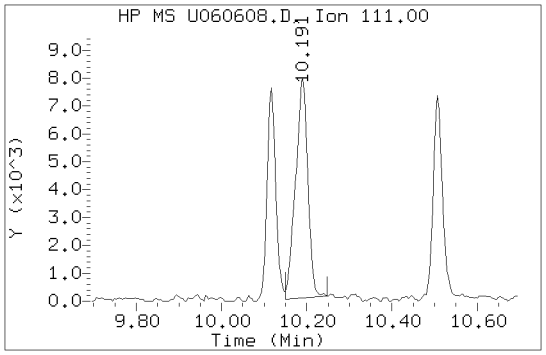
BEFORE

MASS
111
AREA
16075
HEIGHT
7847
08-Jun-2023
14:56
linh
pham



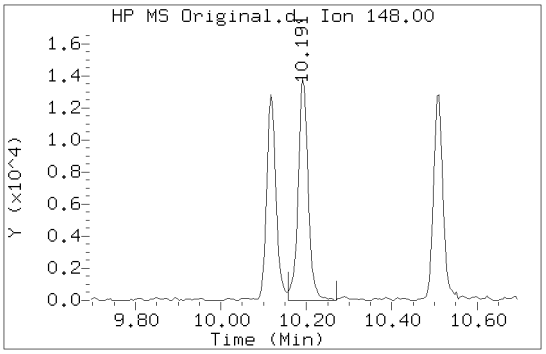
AFTER

MASS
111
AREA
16075
HEIGHT
7847
13-Jun-2023
13:00
linh
pham



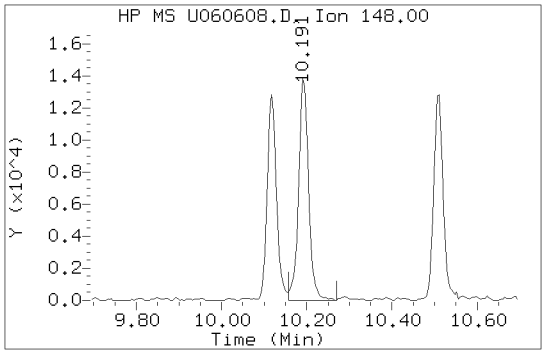
BEFORE

MASS
148
AREA
23144
HEIGHT
13826
08-Jun-2023
14:56
linh
pham



AFTER

MASS
148
AREA
23144
HEIGHT
13826
13-Jun-2023
13:00
linh
pham



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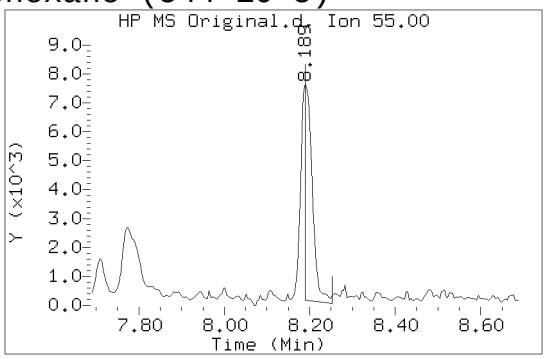
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

1-Chlorohexane (544-10-5)

Reason Code:

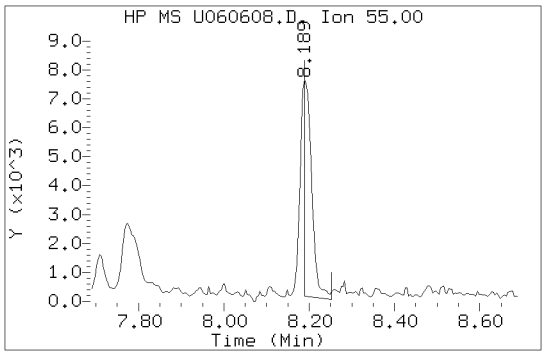
BEFORE

MASS
55
AREA
9554
HEIGHT
7479
08-Jun-2023
14:56
linh
pham



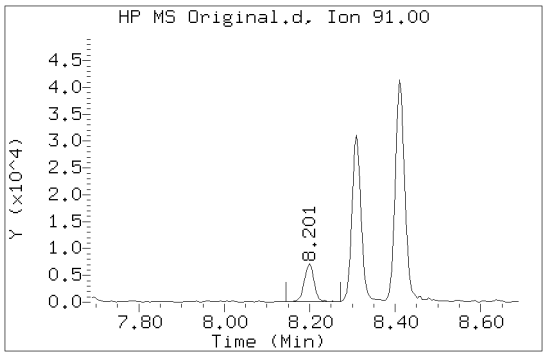
AFTER

MASS
55
AREA
9554
HEIGHT
7479
13-Jun-2023
13:00
linh
pham



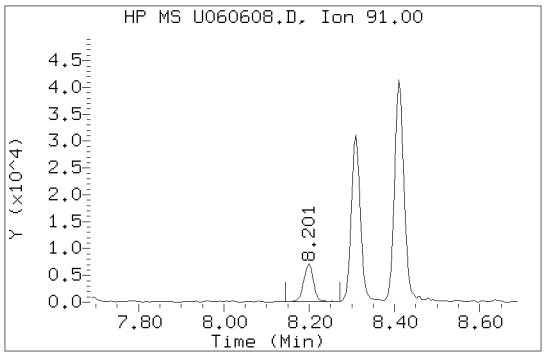
BEFORE

MASS
91
AREA
11373
HEIGHT
7051
08-Jun-2023
14:56
linh
pham



AFTER

MASS
91
AREA
11373
HEIGHT
7051
13-Jun-2023
13:00
linh
pham

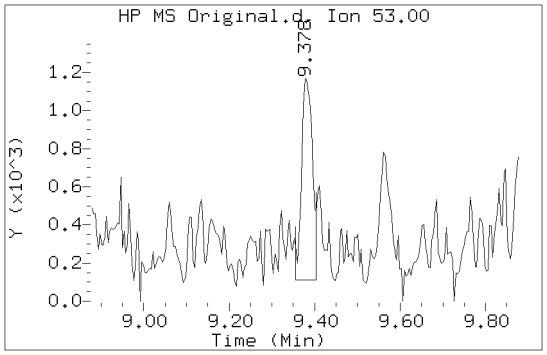


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

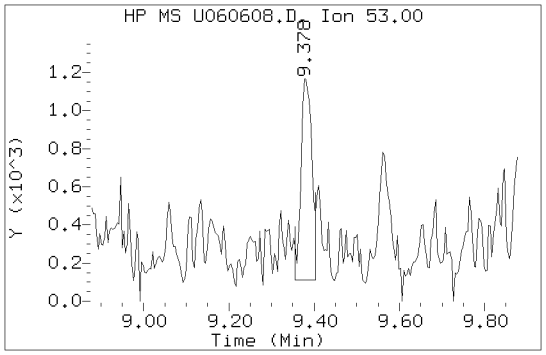
BEFORE

MASS
53
AREA
1936
HEIGHT
1056
08-Jun-2023
14:56
linh
pham



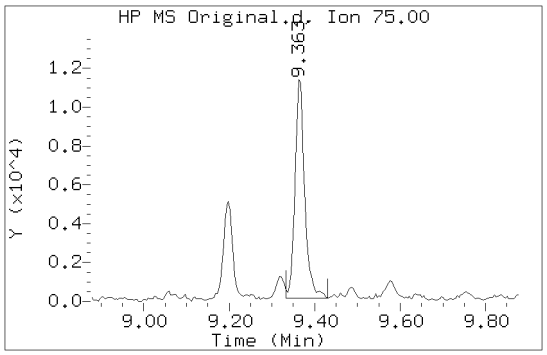
AFTER

MASS
53
AREA
1936
HEIGHT
1056
13-Jun-2023
13:00
linh
pham



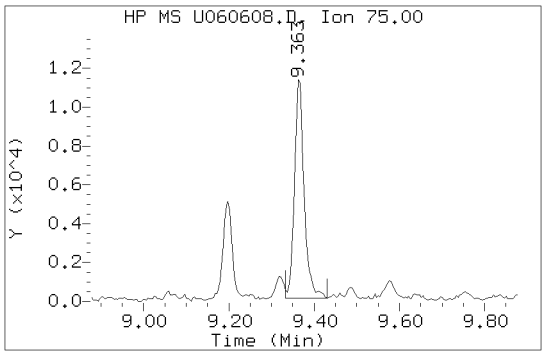
BEFORE

MASS
75
AREA
18151
HEIGHT
11253
08-Jun-2023
14:56
linh
pham



AFTER

MASS
75
AREA
18151
HEIGHT
11253
13-Jun-2023
13:00
linh
pham



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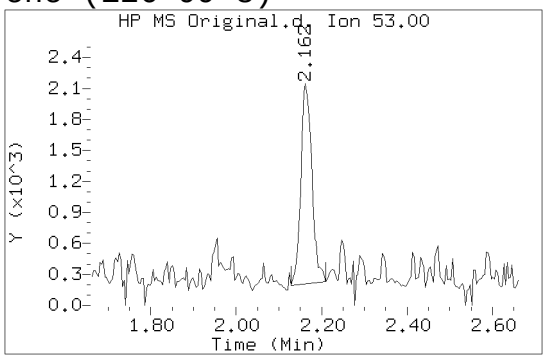
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

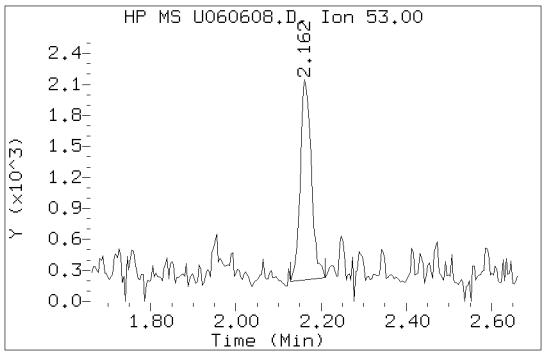
Chloroprene (126-99-8)

Reason Code:

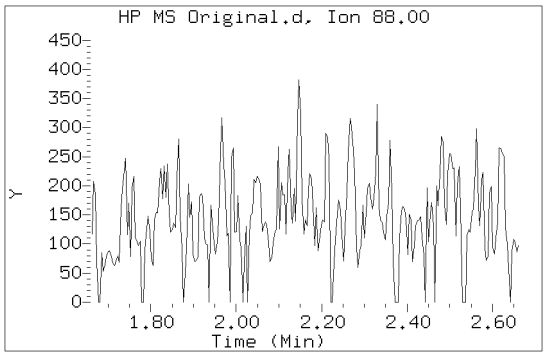
BEFORE
MASS
53
AREA
3552
HEIGHT
1939
08-Jun-2023
14:56
linh
pham



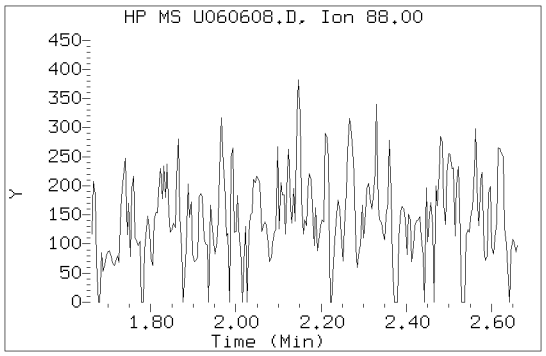
AFTER
MASS
53
AREA
3552
HEIGHT
1939
13-Jun-2023
13:00
linh
pham



BEFORE
MASS
88
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



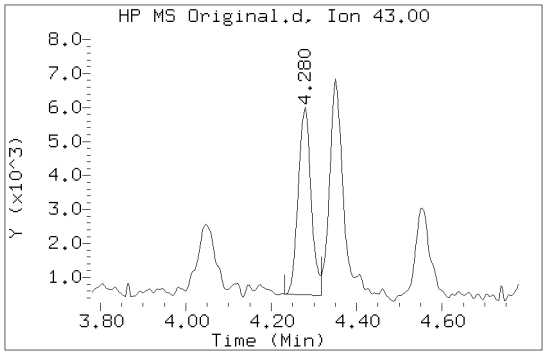
AFTER
MASS
88
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham



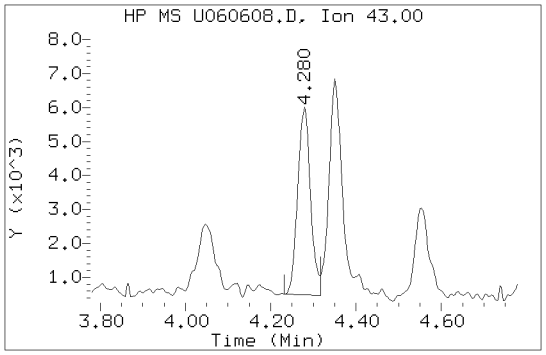
Ethyl Acetate (141-78-6)

Reason Code:

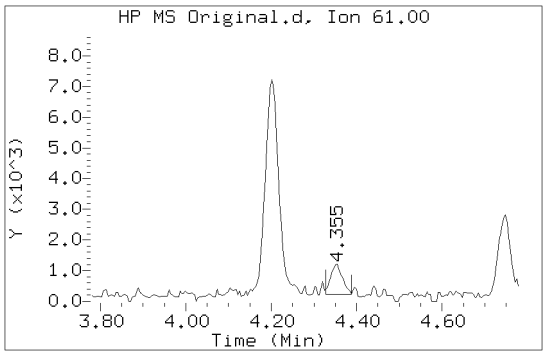
BEFORE
MASS
43
AREA
11855
HEIGHT
5517
08-Jun-2023
14:56
linh
pham



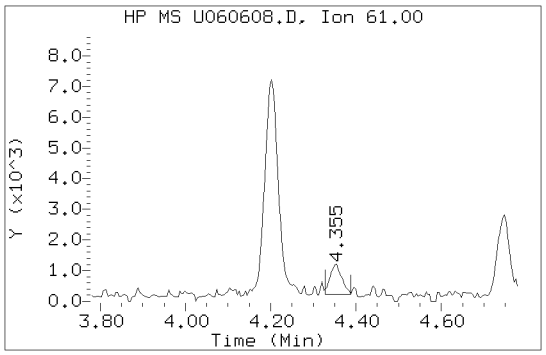
AFTER
MASS
43
AREA
11855
HEIGHT
5517
13-Jun-2023
13:00
linh
pham



BEFORE
MASS
61
AREA
1871
HEIGHT
977
08-Jun-2023
14:56
linh
pham



AFTER
MASS
61
AREA
1871
HEIGHT
977
13-Jun-2023
13:00
linh
pham



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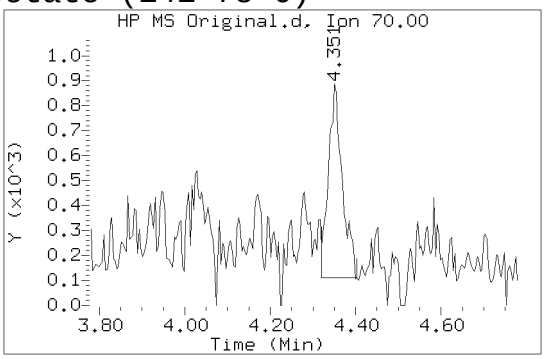
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

Ethyl Acetate (141-78-6)

Reason Code:

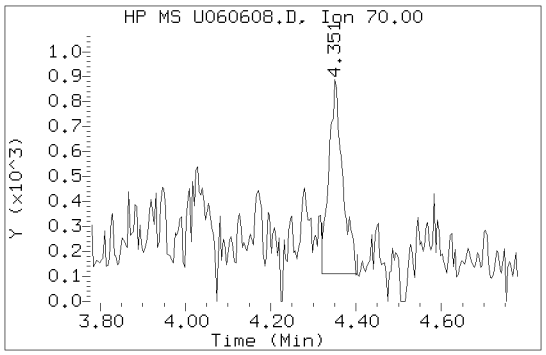
BEFORE

MASS
70
AREA
1750
HEIGHT
777
08-Jun-2023
14:56
linh
pham



AFTER

MASS
70
AREA
1750
HEIGHT
777
13-Jun-2023
13:00
linh
pham

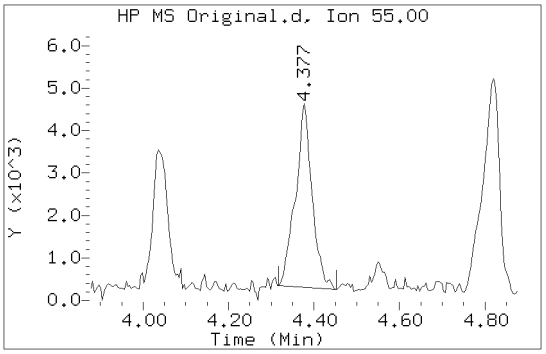


Methyl Acrylate (96-33-3)

Reason Code:

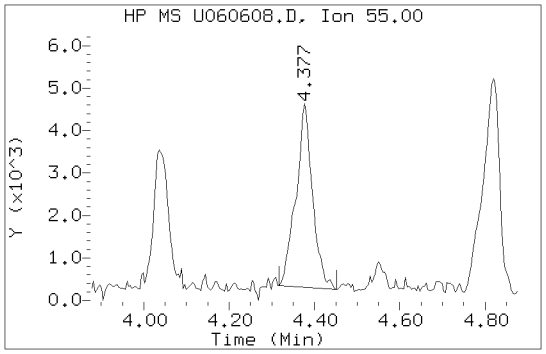
BEFORE

MASS
55
AREA
11843
HEIGHT
4323
08-Jun-2023
14:56
linh
pham



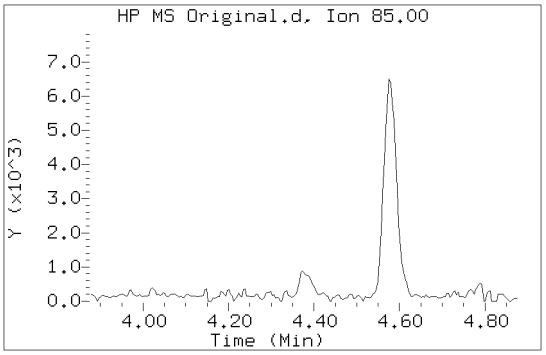
AFTER

MASS
55
AREA
11843
HEIGHT
4323
13-Jun-2023
13:00
linh
pham



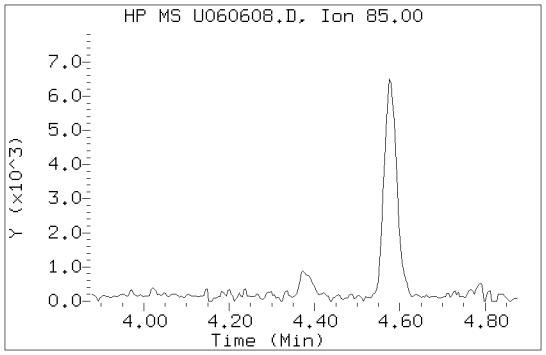
BEFORE

MASS
85
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
85
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham

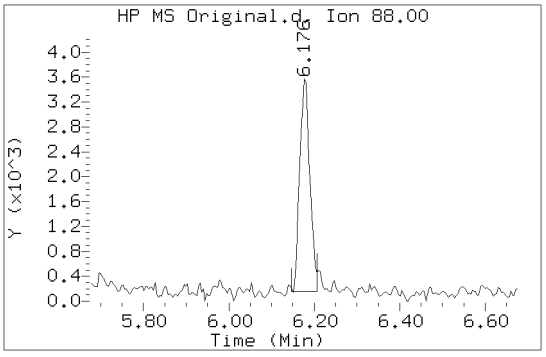


1,4-Dioxane ()

Reason Code:

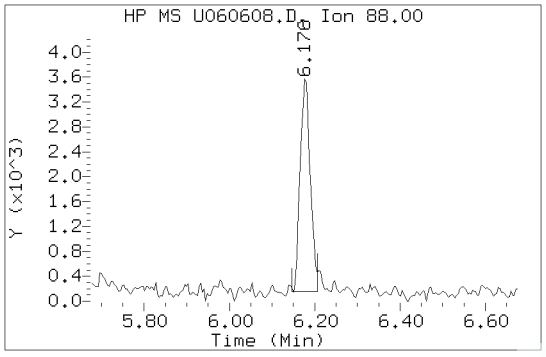
BEFORE

MASS
88
AREA
5764
HEIGHT
3411
08-Jun-2023
14:56
linh
pham



AFTER

MASS
88
AREA
5764
HEIGHT
3411
13-Jun-2023
13:00
linh
pham



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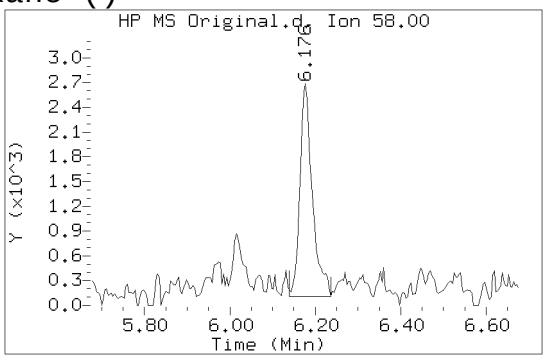
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

1,4-Dioxane ()

Reason Code:

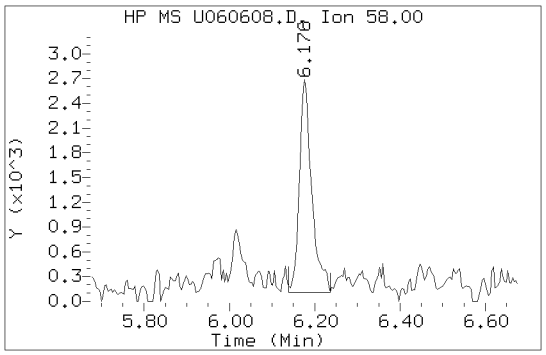
BEFORE

MASS
58
AREA
5271
HEIGHT
2575
08-Jun-2023
14:56
linh
pham



AFTER

MASS
58
AREA
5271
HEIGHT
2575
13-Jun-2023
13:00
linh
pham

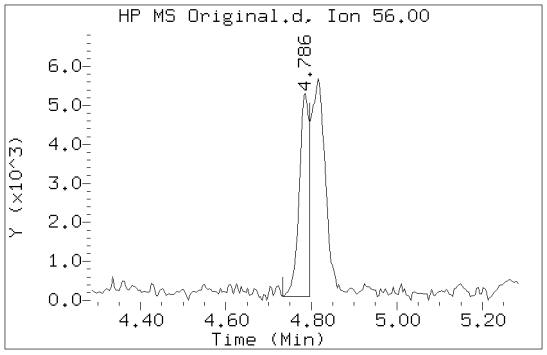


Cyclohexane (110-82-7)

Reason Code:

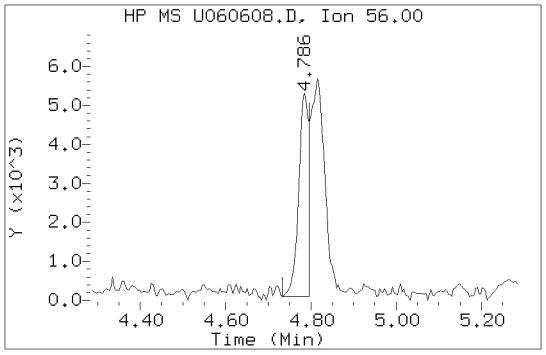
BEFORE

MASS
56
AREA
8877
HEIGHT
5201
08-Jun-2023
14:56
linh
pham



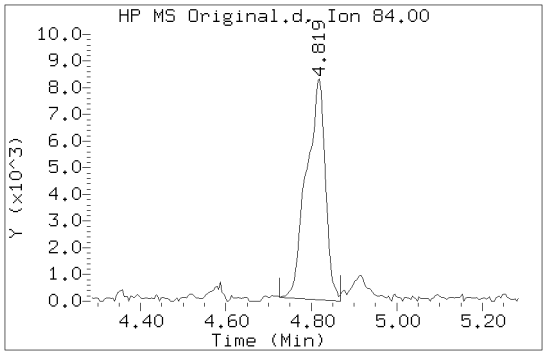
AFTER

MASS
56
AREA
8877
HEIGHT
5201
13-Jun-2023
13:00
linh
pham



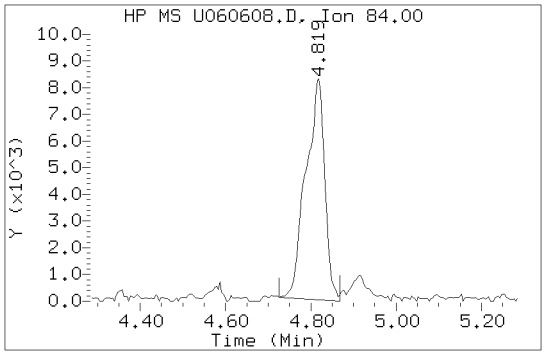
BEFORE

MASS
84
AREA
25654
HEIGHT
8278
08-Jun-2023
14:56
linh
pham



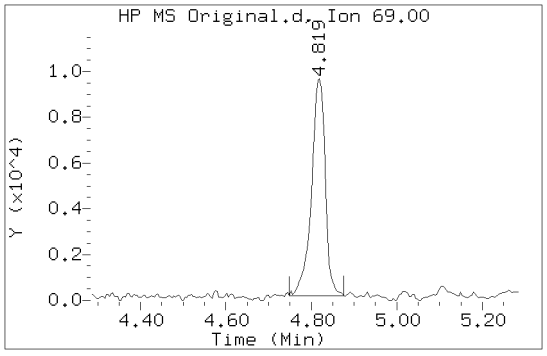
AFTER

MASS
84
AREA
25654
HEIGHT
8278
13-Jun-2023
13:00
linh
pham



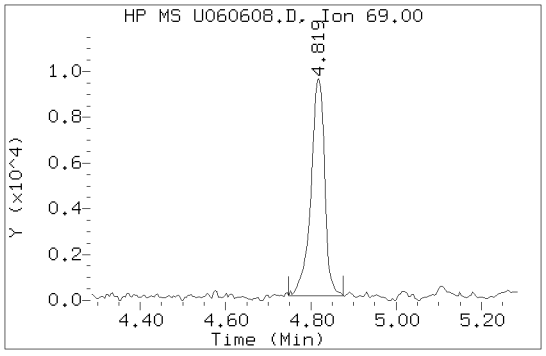
BEFORE

MASS
69
AREA
21405
HEIGHT
9491
08-Jun-2023
14:56
linh
pham



AFTER

MASS
69
AREA
21405
HEIGHT
9491
13-Jun-2023
13:00
linh
pham



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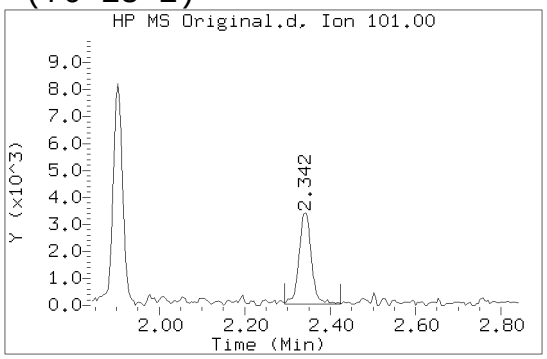
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

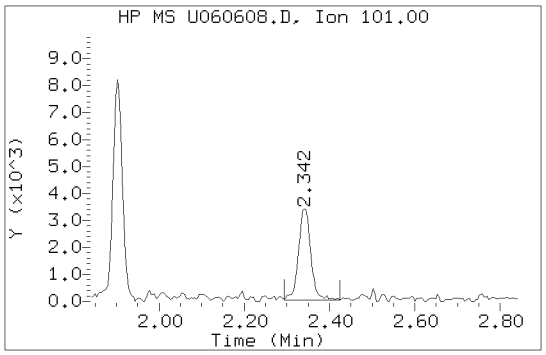
Freon TF (76-13-1)

Reason Code:

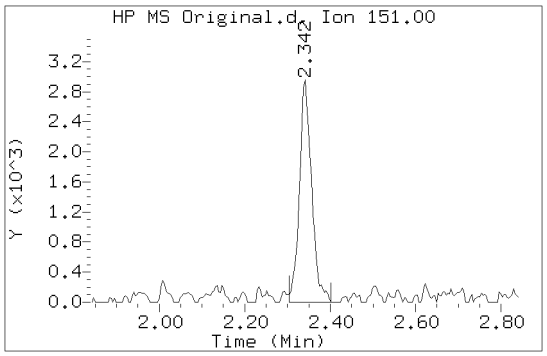
BEFORE
MASS
101
AREA
6997
HEIGHT
3366
08-Jun-2023
14:56
linh
pham



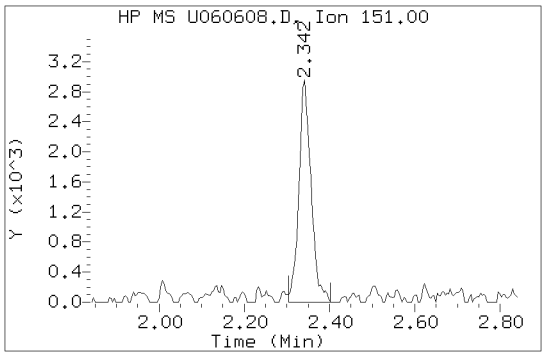
AFTER
MASS
101
AREA
6997
HEIGHT
3366
13-Jun-2023
13:00
linh
pham



BEFORE
MASS
151
AREA
5971
HEIGHT
2957
08-Jun-2023
14:56
linh
pham



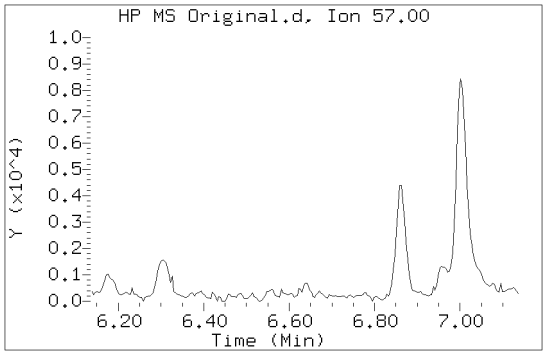
AFTER
MASS
151
AREA
5971
HEIGHT
2957
13-Jun-2023
13:00
linh
pham



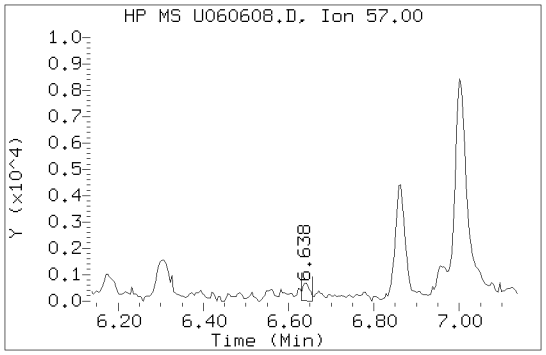
Epichlorohydrin (106-89-8)

Reason Code:

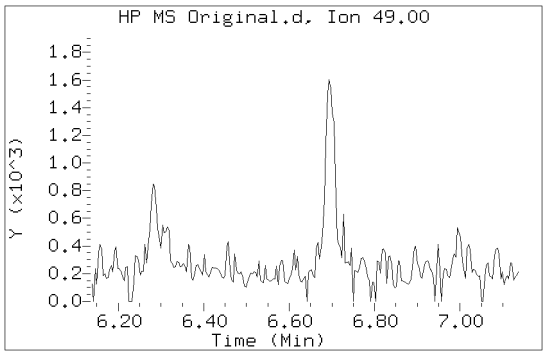
BEFORE
MASS
57
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



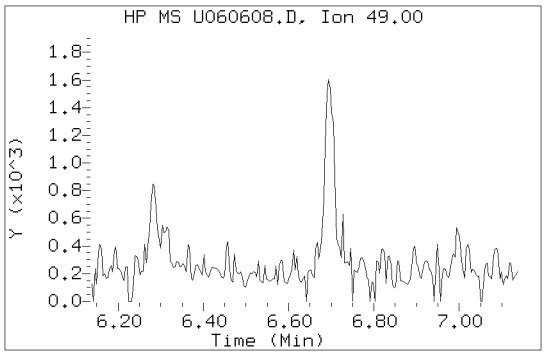
AFTER
MASS
57
AREA
854
HEIGHT
671
13-Jun-2023
13:00
linh
pham



BEFORE
MASS
49
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER
MASS
49
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham



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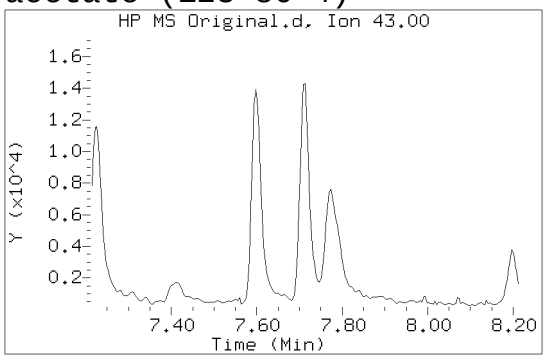
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

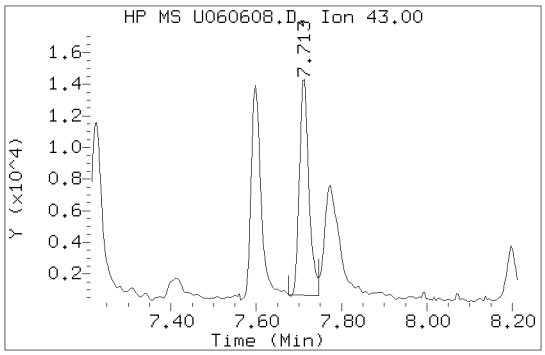
n-Butyl acetate (123-86-4)

Reason Code:

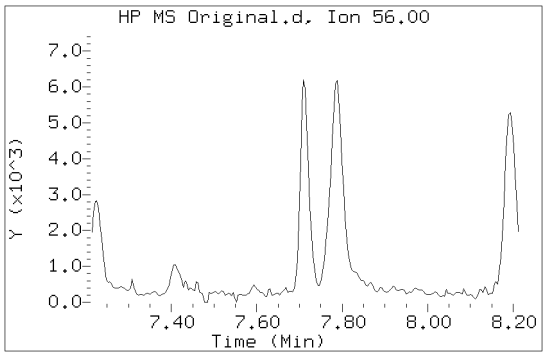
BEFORE
MASS
43
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER
MASS
43
AREA
21837
HEIGHT
13643
13-Jun-2023
13:00
linh
pham



BEFORE
MASS
56
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER
MASS
56
AREA
8685
HEIGHT
5924
13-Jun-2023
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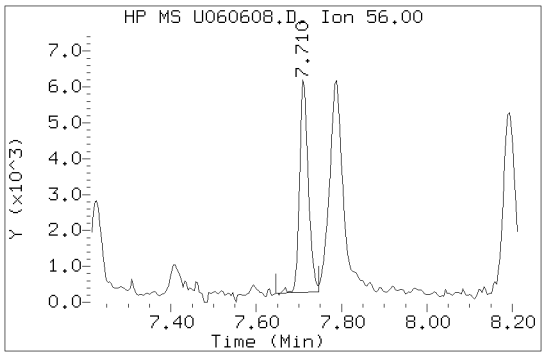

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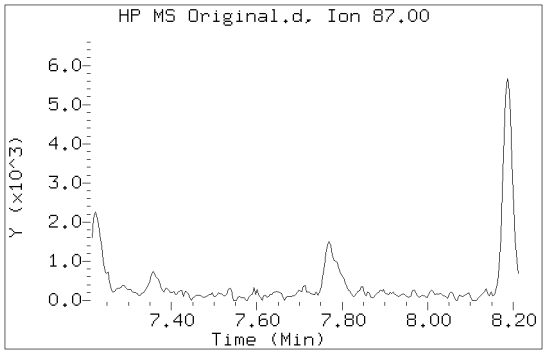

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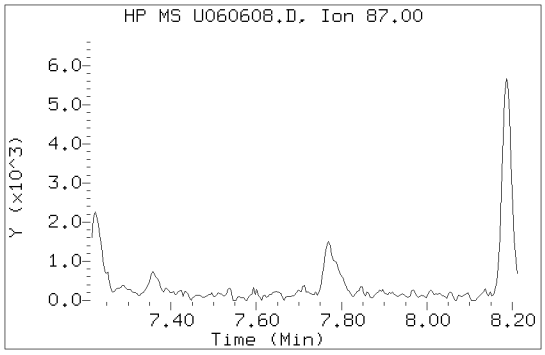

Dimethyl Disulfide (624-92-0)

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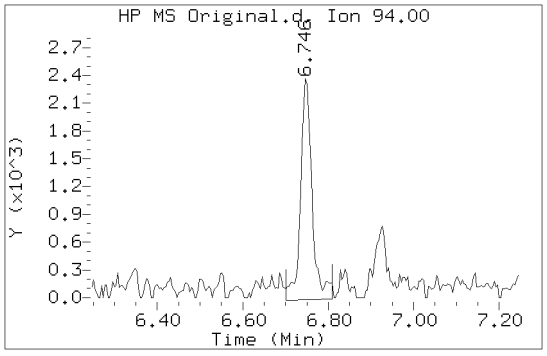

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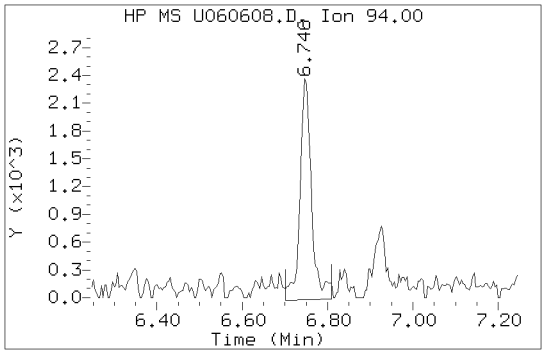

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LabSampID : VSTD002

Dimethyl Disulfide (624-92-0)

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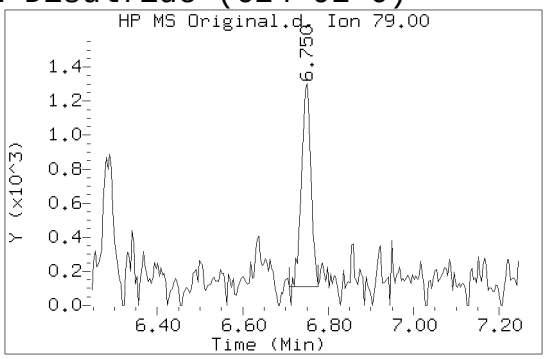

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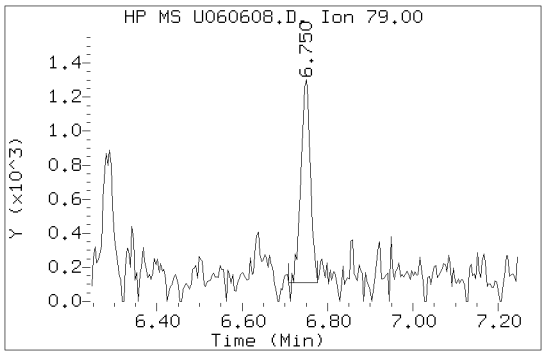

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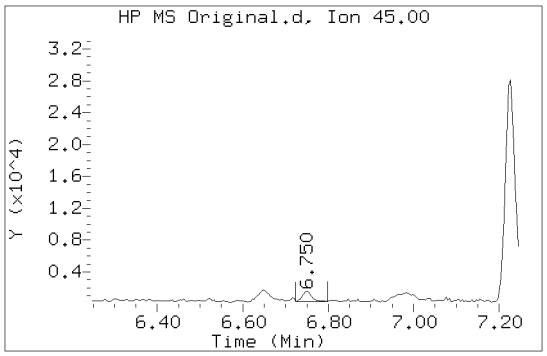

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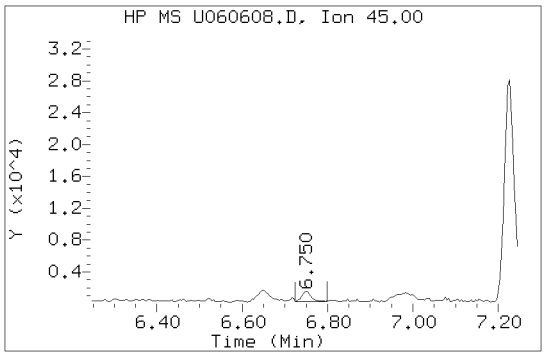

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Report Date: 21-Jun-2023 13:48

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060609.D
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Smp Info : VSTD020;VSTD020;1;6;
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Als bottle: 10 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14

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)	699800	50.0000	
2	Dichlorodifluoromethane	85	1.156	1.156	(0.240)	134998	20.0000	20.92
3	Chloromethane	50	1.291	1.291	(0.268)	243997	20.0000	22.39
5	Vinyl Chloride	62	1.370	1.370	(0.285)	154975	20.0000	20.93
6	Bromomethane	94	1.614	1.614	(0.335)	85360	20.0000	21.41
7	Chloroethane	64	1.693	1.693	(0.352)	101661	20.0000	20.38
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	186610	20.0000	21.95
9	Acrolein	56	2.259	2.259	(0.469)	13555	40.0000	36.49
10	Acetone	43	2.405	2.405	(0.500)	105410	40.0000	40.65
11	1,1-Dichloroethene	96	2.326	2.326	(0.483)	106844	20.0000	20.11
15	Iodomethane	142	2.465	2.465	(0.512)	69713	40.0000	25.52
16	Acrylonitrile	53	3.061	3.061	(0.636)	100523	40.0000	38.73
17	Methylene Chloride	84	2.791	2.791	(0.580)	133454	20.0000	20.31
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	301047	20.0000	18.48
19	Carbon Disulfide	76	2.514	2.514	(0.522)	585546	40.0000	41.23
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	117673	20.0000	20.36
21	Vinyl Acetate	43	3.604	3.604	(0.749)	686124	40.0000	38.96
22	1,1-Dichloroethane	63	3.511	3.511	(0.730)	209138	20.0000	19.05
24	2-Butanone	43	4.264	4.264	(0.886)	120643	40.0000	37.81
26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	139835	20.0000	19.51
27	cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	136001	20.0000	19.67

28	Chloroform	83	4.568	4.568 (0.949)	226645	20.0000	19.83
29	Bromochloromethane	128	4.467	4.467 (0.928)	75232	20.0000	19.46

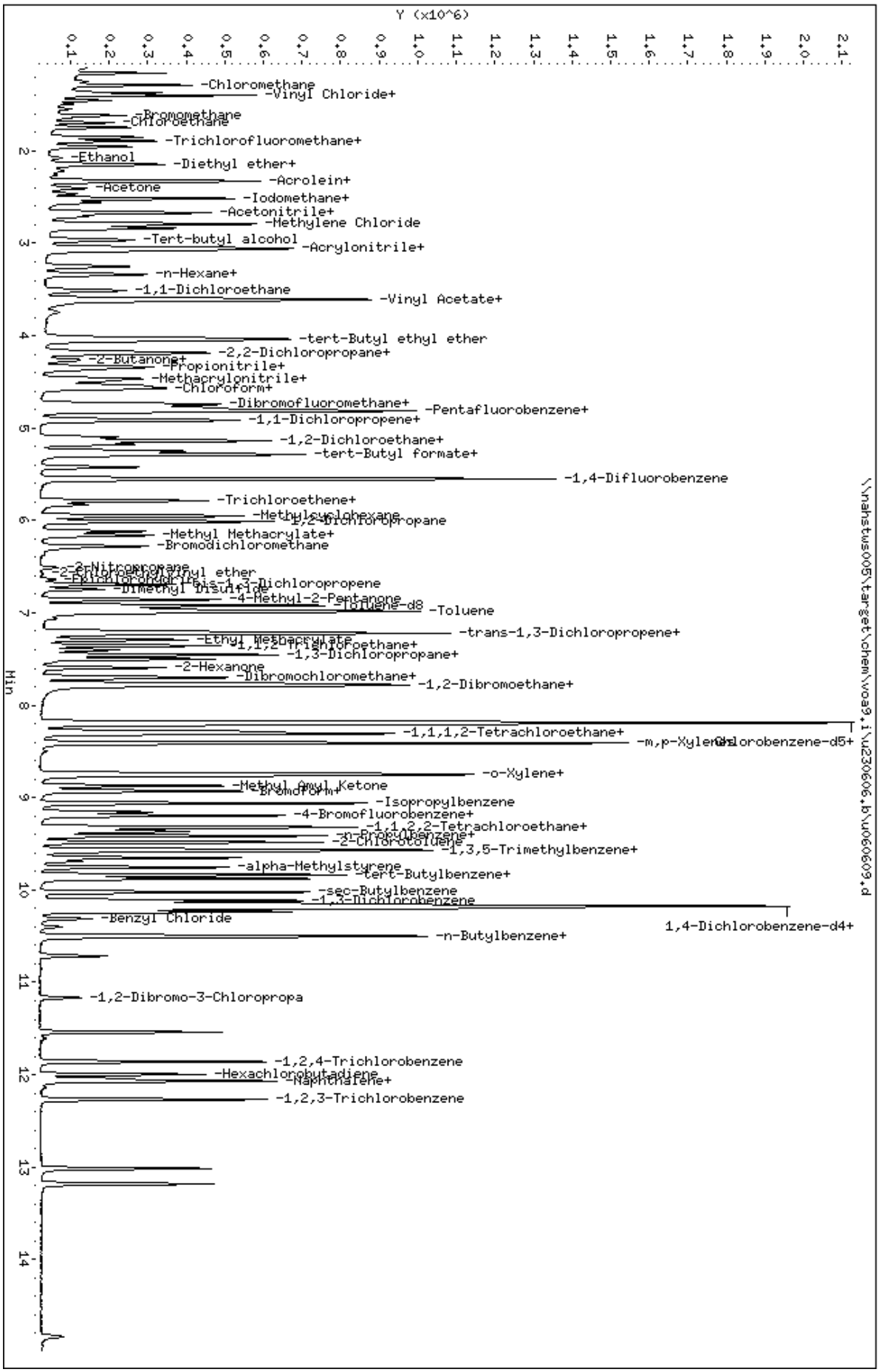
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	119153	20.0000	20.09
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	178912	20.0000	20.54
	32 1,1-Dichloropropene	75	4.916	4.916	(0.886)	160757	20.0000	20.96
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	178788	20.0000	19.74
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	147458	20.0000	20.93
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	129564	20.0000	19.98
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	1046146	50.0000	
	37 Benzene	78	5.138	5.138	(0.926)	516341	20.0000	20.48
	38 Trichloroethene	130	5.786	5.786	(1.043)	145174	20.0000	19.86
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	153153	20.0000	19.47
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	7046	40.0000	37.04(M)
	42 1,2-Dichloropropane	63	6.011	6.011	(1.083)	134169	20.0000	19.93
	44 Dibromomethane	93	6.120	6.120	(1.103)	83709	20.0000	19.46
	45 4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	288078	40.0000	41.20
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.206)	176588	20.0000	18.03
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	960016	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	445555	20.0000	20.50
	50 Toluene	91	6.982	6.982	(0.853)	554230	20.0000	21.28
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.297)	143978	20.0000	17.64
	52 2-Hexanone	43	7.593	7.593	(0.928)	190529	40.0000	39.13
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	107394	20.0000	19.82
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	226819	20.0000	20.49
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	128911	20.0000	20.05
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	133448	20.0000	21.03
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	132458	20.0000	19.81
	58 1-Chlorohexane	55	8.197	8.197	(1.477)	111769	20.0000	20.80
	59 Chlorobenzene	112	8.208	8.208	(1.003)	374064	20.0000	20.12
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	128313	20.0000	20.08
	61 Ethylbenzene	106	8.305	8.305	(1.015)	179483	20.0000	20.75
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	421040	40.0000	41.14
	63 o-Xylene	106	8.748	8.748	(1.069)	206194	20.0000	20.39
	64 Styrene	104	8.763	8.763	(1.071)	318690	20.0000	19.86
	66 Bromoform	173	8.920	8.920	(1.090)	81243	20.0000	18.72
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	516146	20.0000	21.25
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	178916	20.0000	19.34
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	178335	20.0000	20.30
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	491623	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	151200	20.0000	18.58
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	527972	20.0000	20.47
	74 Bromobenzene	156	9.317	9.317	(0.916)	165398	20.0000	19.93
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	338496	20.0000	19.13
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	380446	20.0000	20.98
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	415563	20.0000	20.71
	78 tert-Butylbenzene	119	9.838	9.838	(0.967)	368922	20.0000	21.23
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	349187	20.0000	18.86
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	457784	20.0000	20.77
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	348135	20.0000	18.85
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	280647	20.0000	19.92
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	292174	20.0000	19.45
	87 n-Butylbenzene	91	10.491	10.491	(1.031)	319352	20.0000	20.20
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	281467	20.0000	19.92
	89 1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	24061	20.0000	17.83

90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	186288	20.0000	19.17
91 Hexachlorobutadiene	225	11.998	11.998 (1.179)	79518	20.0000	20.26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
92	Naphthalene	128	12.069	12.069	(1.186)	445465	20.0000	19.73
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	186329	20.0000	19.61
M 94	1,2-Dichloroethylene (total)	96				253674	40.0000	40.04
M 95	Xylenes (total)	106				627234	60.0000	61.54
135	1,4-Dioxane	88	6.168	6.168	(1.282)	38808	400.000	279.28(M)
141	Cyclohexane	56	4.778	4.778	(0.993)	190495	20.0000	22.56
138	Freon TF	101	2.330	2.330	(0.484)	102379	20.0000	21.78
140	1,3-Butadiene	54	1.396	1.396	(0.290)	143212	20.0000	21.60
147	Methylcyclohexane	55	5.947	5.947	(1.072)	271418	20.0000	18.70
146	Methyl Acetate	43	2.708	2.708	(0.563)	109689	20.0000	18.61
148	Tert-Butyl alcohol	59	2.963	2.963	(0.616)	255911	400.000	392.79
149	Isopropyl Alcohol	45	2.558	2.558	(0.532)	166234	400.000	363.36
72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	18573	20.0000	16.80(M)
12	Isobutyl Alcohol	43	5.288	5.288	(1.099)	360790	400.000	396.80(M)
13	Acetonitrile	39	2.667	2.667	(0.554)	140672	200.000	185.67
14	Allyl Chloride	41	2.667	2.667	(0.554)	339917	20.0000	18.70
25	Methacrylonitrile	41	4.493	4.493	(0.934)	82790	20.0000	20.02
40	Methyl Methacrylate	41	6.157	6.157	(1.280)	116616	20.0000	19.38
4	Propionitrile	54	4.335	4.335	(0.901)	196157	200.000	193.97(a)
136	n-Hexane	57	3.338	3.338	(0.694)	131033	20.0000	22.86
194	Acetaldehyde	44	1.453	1.453	(0.302)	80793	80.0000	83.70(M)
131	Methyl Acrylate	55	4.365	4.365	(0.907)	140883	20.0000	19.03(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	75368	20.0000	14.42(M)
23	Chloroprene	53	2.150	2.150	(0.447)	46564	20.0000	20.86(M)
49	Ethyl Methacrylate	69	7.293	7.293	(1.314)	174530	20.0000	19.03
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	336473	20.0000	17.80
167	Ethanol	45	2.075	2.075	(0.431)	33180	400.000	365.81
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	430916	20.0000	17.96
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	141914	20.0000	17.83
142	Tetrahydrofuran	42	4.542	4.542	(0.944)	48081	40.0000	37.45
156	Diisopropyl ether	45	3.619	3.619	(0.752)	362787	20.0000	18.59
151	4-Methyl-2-pentanol	45	7.222	7.222	(1.301)	598756	400.000	384.89
150	Allyl alcohol	57	3.338	3.338	(0.694)	131033	400.000	457.76
86	Benzyl Chloride	91	10.311	10.311	(1.260)	85763	20.0000	17.37
162	Butyl acrylate	55	8.733	8.733	(1.067)	214597	20.0000	18.89
139	Diethyl ether	59	2.139	2.139	(0.445)	88209	20.0000	18.65
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	70007	20.0000	16.56
134	Cyclohexanone	55	9.156	9.156	(0.900)	110447	400.000	362.37(a)
130	Ethyl Acetate	43	4.264	4.264	(0.886)	118985	20.0000	19.02(M)
189	n-Butyl acetate	43	7.705	7.705	(0.941)	210444	20.0000	19.25(M)
182	Epichlorohydrin	57	6.637	6.637	(1.196)	5384	80.0000	62.88
132	n-Butanol	56	5.831	5.831	(1.212)	67633	400.000	339.53(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Column phase: DB624

Instrument: VOA9.i
Operator: PC
Column diameter: 0.18

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Inj Date : 06-JUN-2023 14:13
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LabSampID : VSTD020

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

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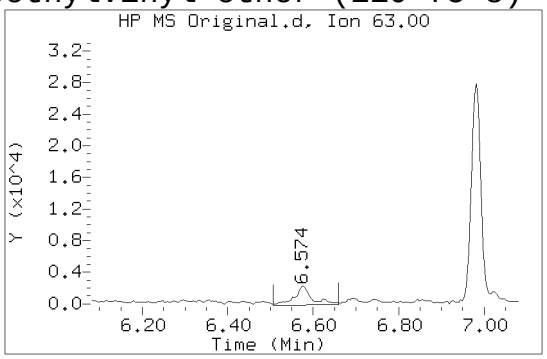

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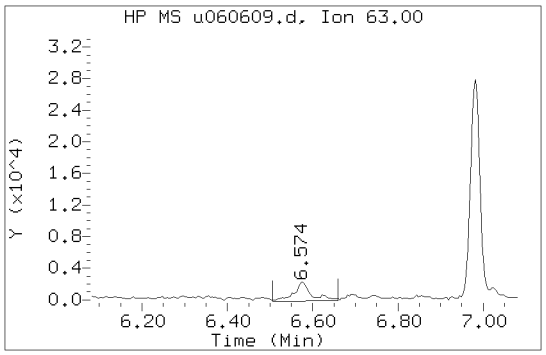

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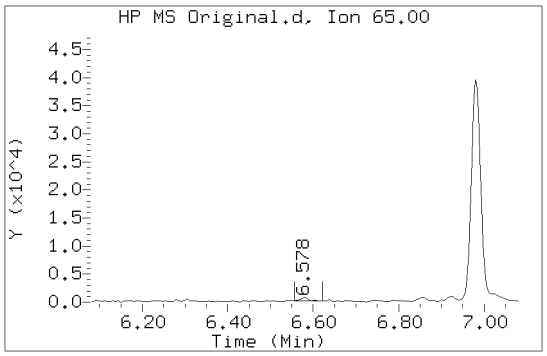

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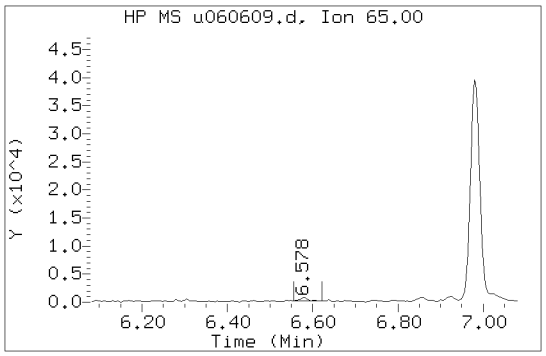

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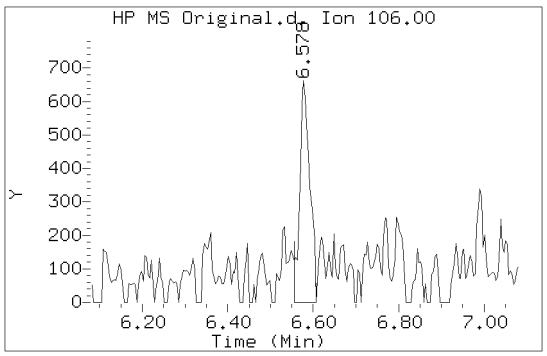

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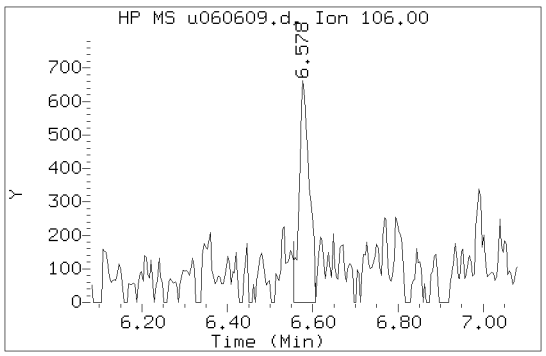
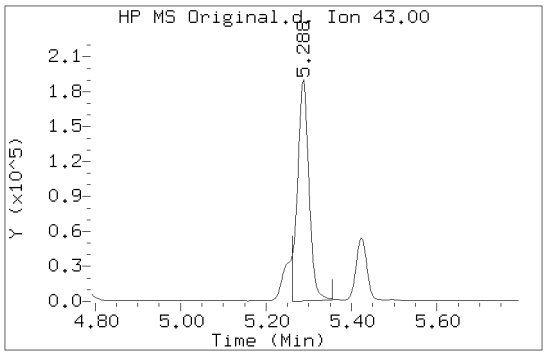


Isobutyl Alcohol (78-83-1)

Reason Code:

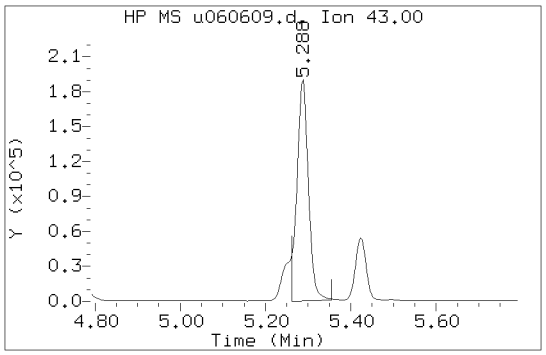
BEFORE

MASS
43
AREA
360790
HEIGHT
189910
08-Jun-2023
14:56
linh
pham



AFTER

MASS
43
AREA
360790
HEIGHT
189910
21-Jun-2023
13:48
linh
pha



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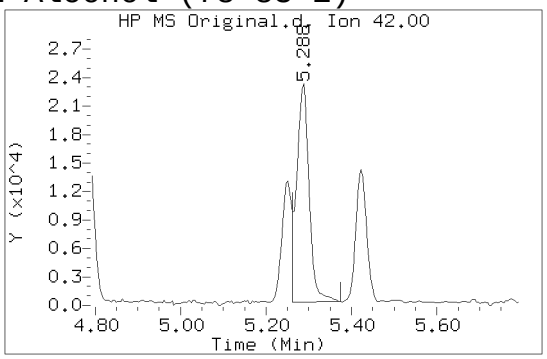
Inj Date : 06-JUN-2023 14:13
InstruID : VOA9.i
LabSampID : VSTD020

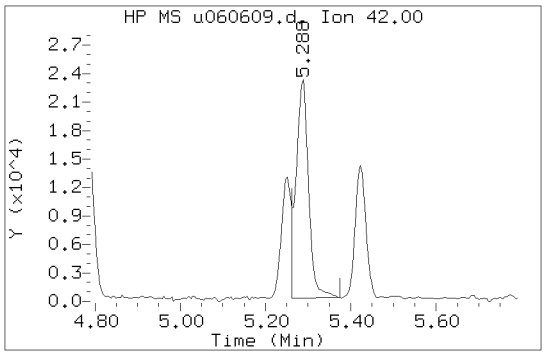
Isobutyl Alcohol (78-83-1)

Reason Code:

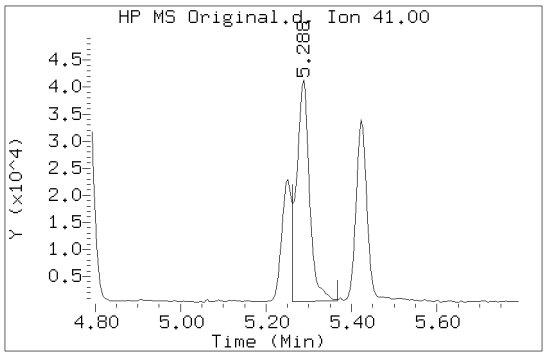
BEFORE
MASS
42
AREA
48295
HEIGHT
22999
08-Jun-2023
14:56
linh
pham



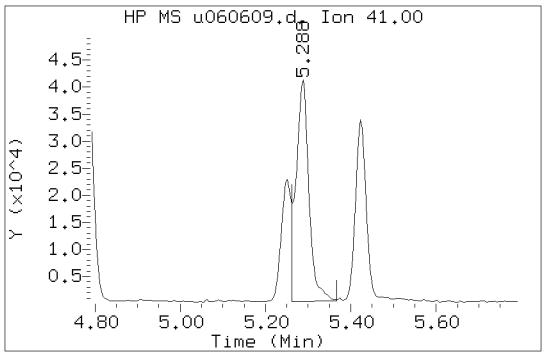
AFTER
MASS
42
AREA
48295
HEIGHT
22999
21-Jun-2023
13:48
linh
pha



BEFORE
MASS
41
AREA
88268
HEIGHT
40909
08-Jun-2023
14:56
linh
pham



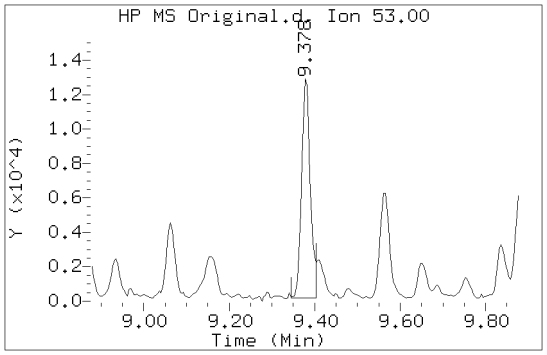
AFTER
MASS
41
AREA
88268
HEIGHT
40909
21-Jun-2023
13:48
linh
pha



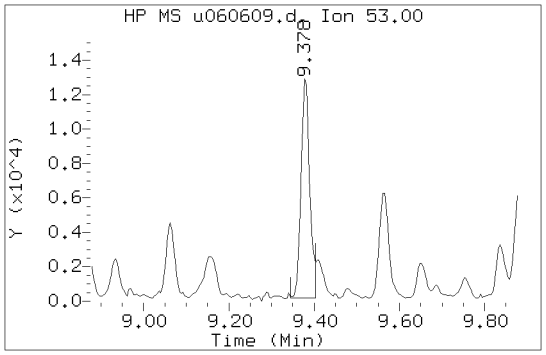
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

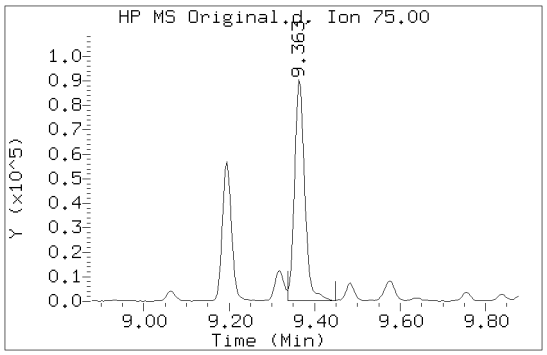
BEFORE
MASS
53
AREA
18573
HEIGHT
12721
08-Jun-2023
14:56
linh
pham



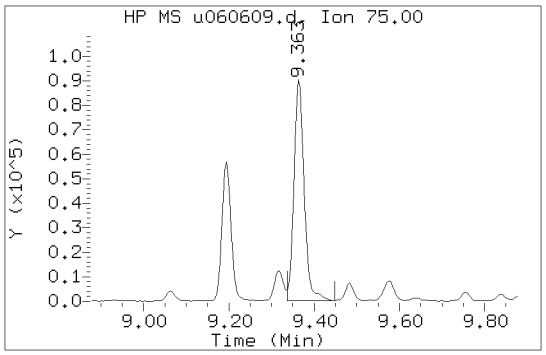
AFTER
MASS
53
AREA
18573
HEIGHT
12721
21-Jun-2023
13:48
linh
pha



BEFORE
MASS
75
AREA
151200
HEIGHT
90329
08-Jun-2023
14:56
linh
pham



AFTER
MASS
75
AREA
151200
HEIGHT
90329
21-Jun-2023
13:48
linh
pha



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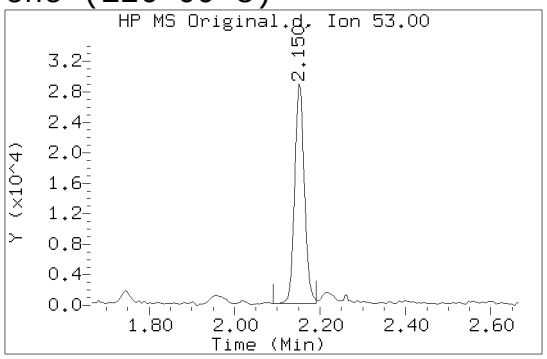
Inj Date : 06-JUN-2023 14:13
InstruID : VOA9.i
LabSampID : VSTD020

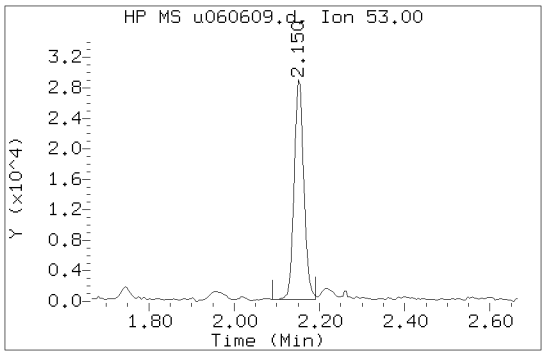
Chloroprene (126-99-8)

Reason Code:

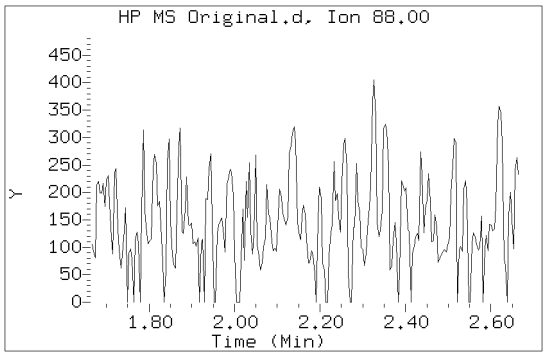
BEFORE
MASS
53
AREA
46564
HEIGHT
28813
08-Jun-2023
14:56
linh
pham



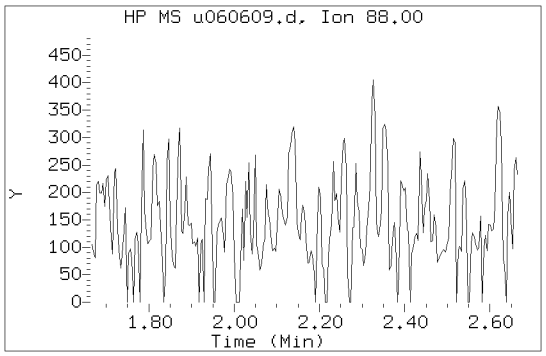
AFTER
MASS
53
AREA
46564
HEIGHT
28813
21-Jun-2023
13:48
linh
pha



BEFORE
MASS
88
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



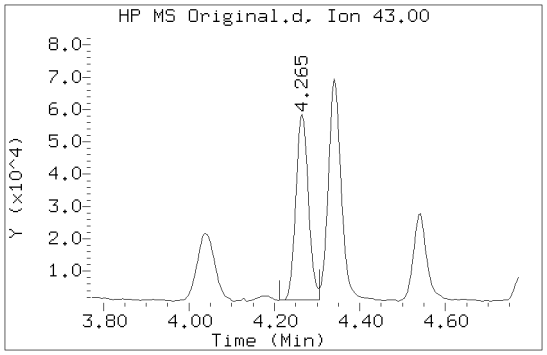
AFTER
MASS
88
AREA
0
HEIGHT
0
21-Jun-2023
13:48
linh
pha



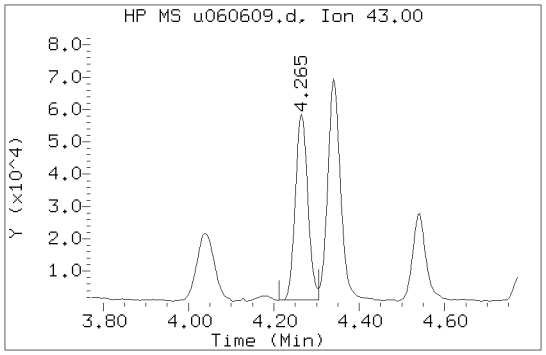
Ethyl Acetate (141-78-6)

Reason Code:

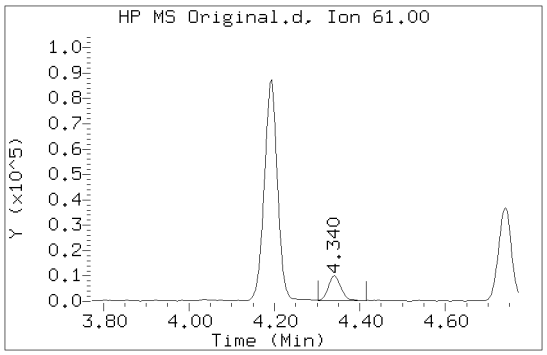
BEFORE
MASS
43
AREA
118985
HEIGHT
57477
08-Jun-2023
14:56
linh
pham



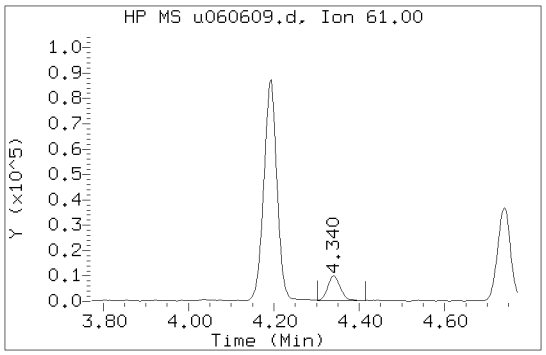
AFTER
MASS
43
AREA
118985
HEIGHT
57477
21-Jun-2023
13:48
linh
pha



BEFORE
MASS
61
AREA
20257
HEIGHT
9732
08-Jun-2023
14:56
linh
pham



AFTER
MASS
61
AREA
20257
HEIGHT
9732
21-Jun-2023
13:48
linh
pha

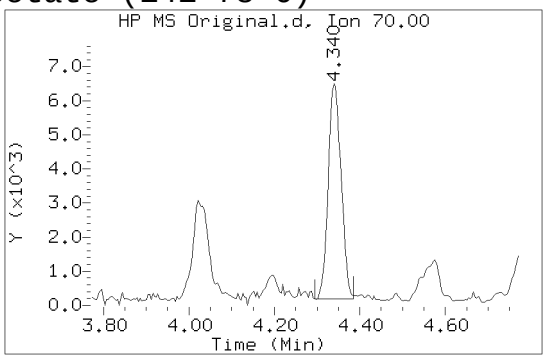


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060609.d
Inj Date : 06-JUN-2023 14:13
InstruID : VOA9.i
LabSampID : VSTD020

Ethyl Acetate (141-78-6)

BEFORE

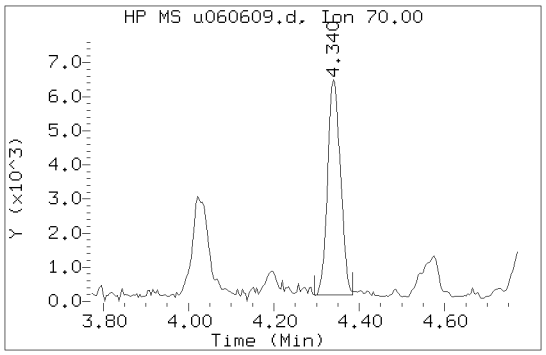
MASS
70
AREA
13212
HEIGHT
6309
08-Jun-2023
14:56
linh
pham



Reason Code:

AFTER

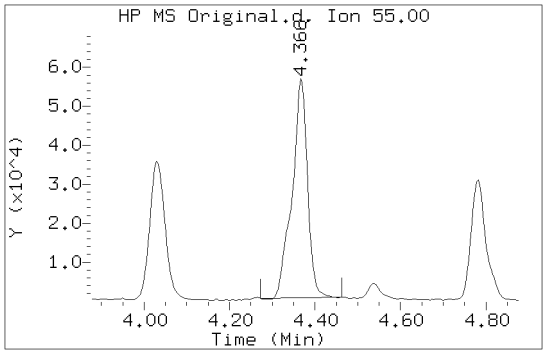
MASS
70
AREA
13212
HEIGHT
6309
21-Jun-2023
13:48
linh
pha



Methyl Acrylate (96-33-3)

BEFORE

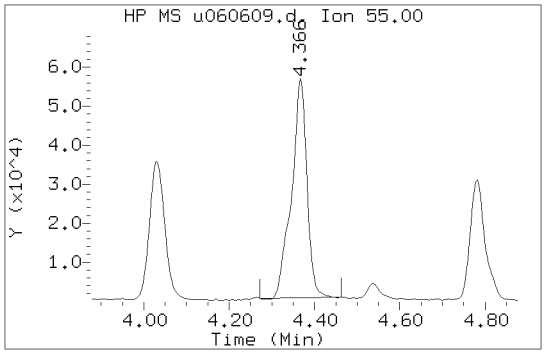
MASS
55
AREA
140883
HEIGHT
56149
08-Jun-2023
14:56
linh
pham



Reason Code:

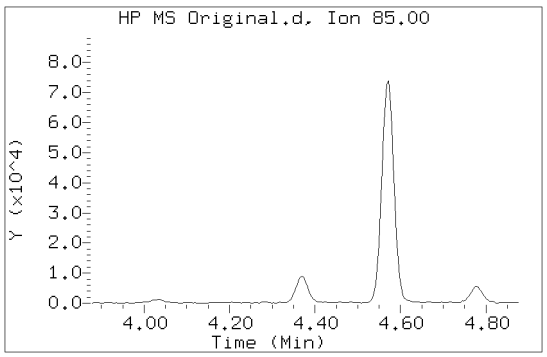
AFTER

MASS
55
AREA
140883
HEIGHT
56149
21-Jun-2023
13:48
linh
pha



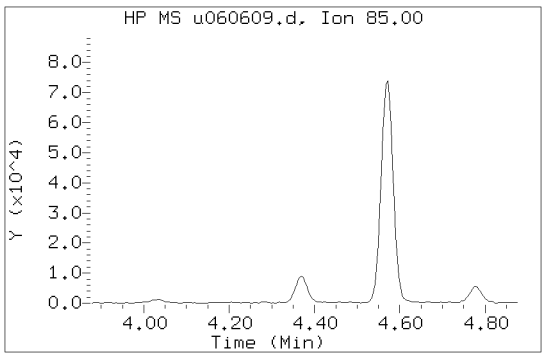
BEFORE

MASS
85
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
85
AREA
0
HEIGHT
0
21-Jun-2023
13:48
linh
pha

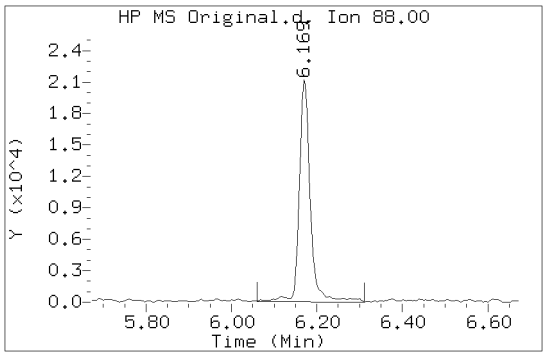


1,4-Dioxane ()

Reason Code:

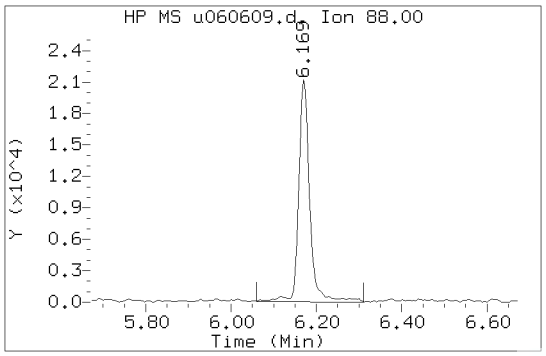
BEFORE

MASS
88
AREA
38808
HEIGHT
21163
08-Jun-2023
14:56
linh
pham



AFTER

MASS
88
AREA
38808
HEIGHT
21163
21-Jun-2023
13:48
linh
pha



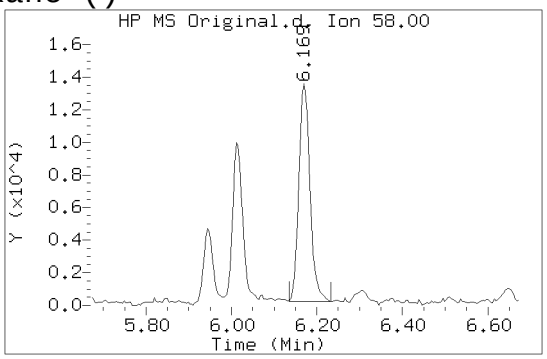
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060609.d
Inj Date : 06-JUN-2023 14:13
InstruID : VOA9.i
LabSampID : VSTD020

1,4-Dioxane ()

Reason Code:

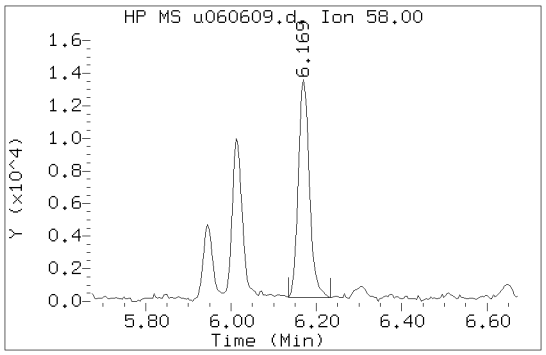
BEFORE

MASS
58
AREA
24573
HEIGHT
13347
08-Jun-2023
14:56
linh
pham



AFTER

MASS
58
AREA
24573
HEIGHT
13347
21-Jun-2023
13:48
linh
pha

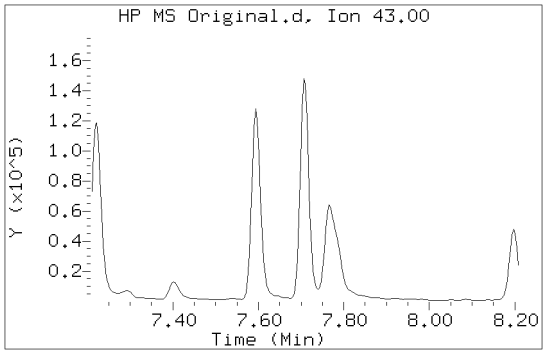


n-Butyl acetate (123-86-4)

Reason Code:

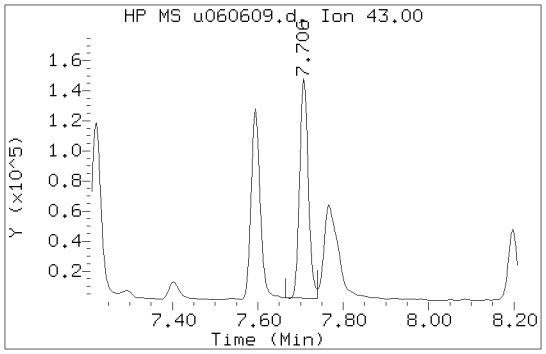
BEFORE

MASS
43
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



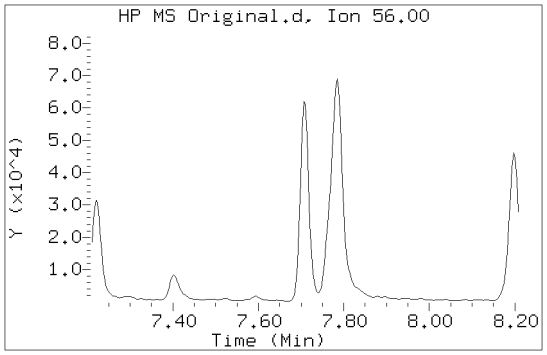
AFTER

MASS
43
AREA
210444
HEIGHT
145880
21-Jun-2023
13:48
linh
pha



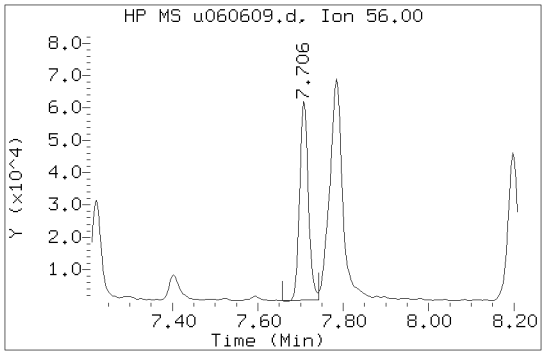
BEFORE

MASS
56
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



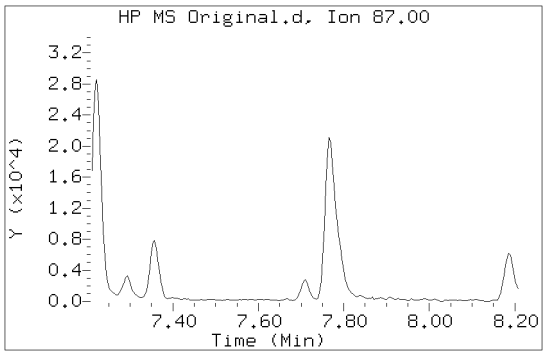
AFTER

MASS
56
AREA
89395
HEIGHT
61609
21-Jun-2023
13:48
linh
pha



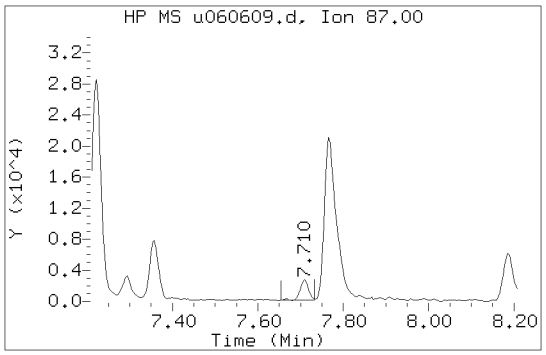
BEFORE

MASS
87
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
87
AREA
3612
HEIGHT
2635
21-Jun-2023
13:48
linh
pha



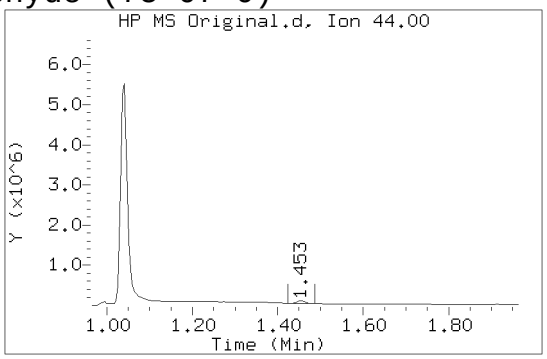
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060609.d
Inj Date : 06-JUN-2023 14:13
InstruID : VOA9.i
LabSampID : VSTD020

Acetaldehyde (75-07-0)

Reason Code:

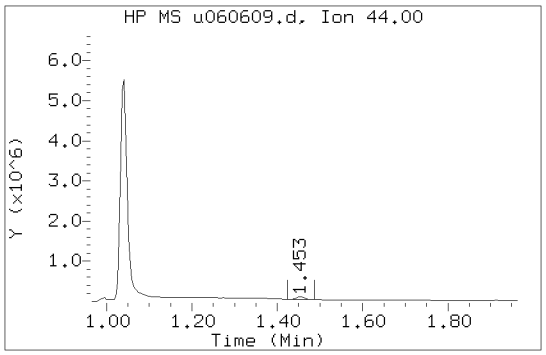
BEFORE

MASS
44
AREA
80793
HEIGHT
67878
08-Jun-2023
14:56
linh
pham



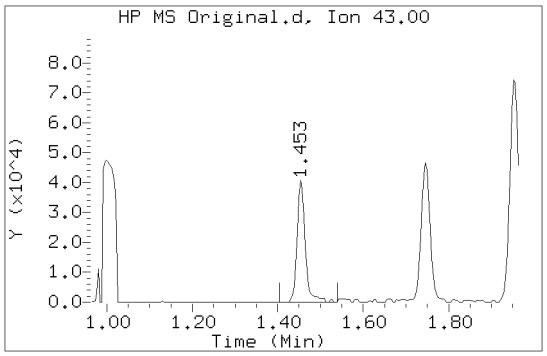
AFTER

MASS
44
AREA
80793
HEIGHT
67878
21-Jun-2023
13:48
linh
pha



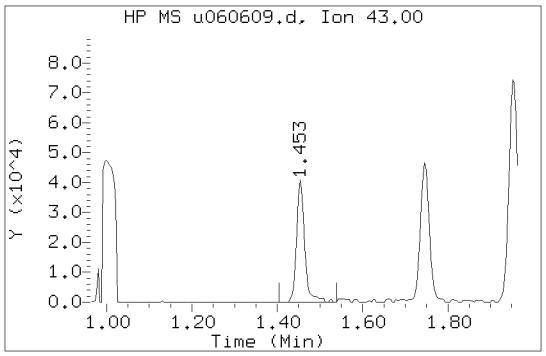
BEFORE

MASS
43
AREA
54539
HEIGHT
40760
08-Jun-2023
14:56
linh
pham



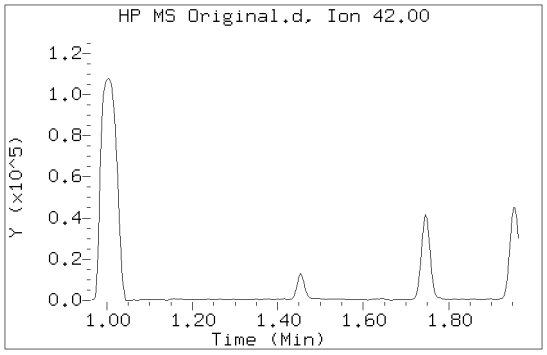
AFTER

MASS
43
AREA
54539
HEIGHT
40760
21-Jun-2023
13:48
linh
pha



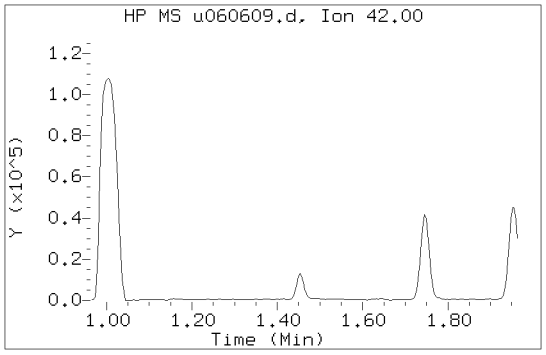
BEFORE

MASS
42
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
42
AREA
0
HEIGHT
0
21-Jun-2023
13:48
linh
pha



Dimethyl Disulfide (624-92-0)

Reason Code:

BEFORE

MASS
94
AREA
75368
HEIGHT
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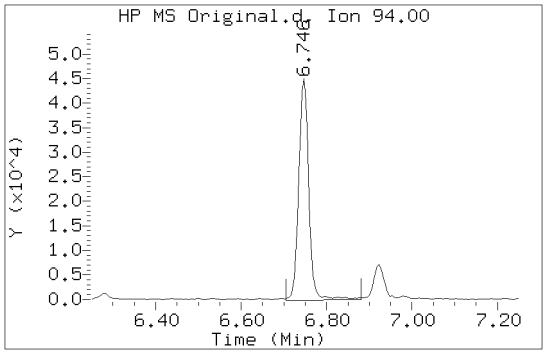

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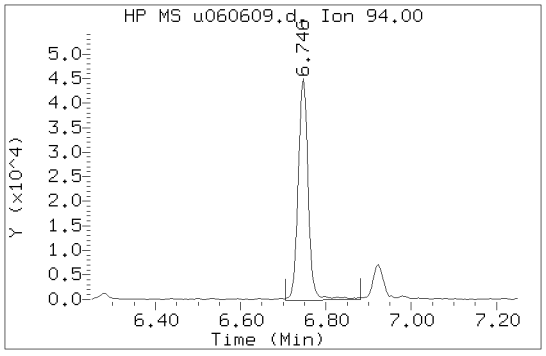

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Inj Date : 06-JUN-2023 14:13
InstruID : VOA9.i
LabSampID : VSTD020

Dimethyl Disulfide (624-92-0)

Reason Code:

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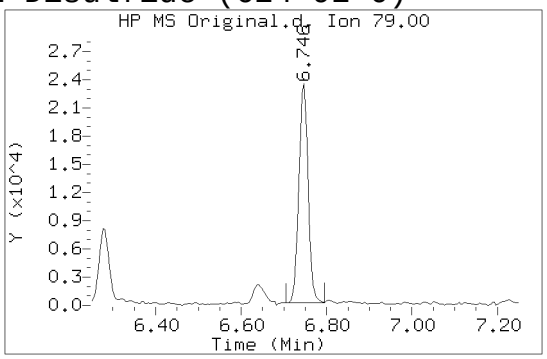

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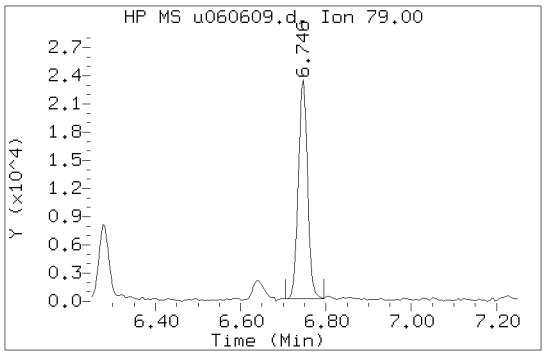

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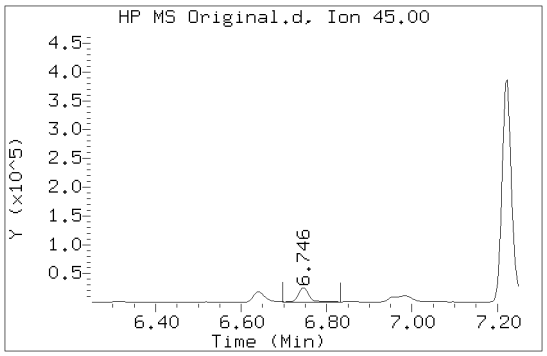

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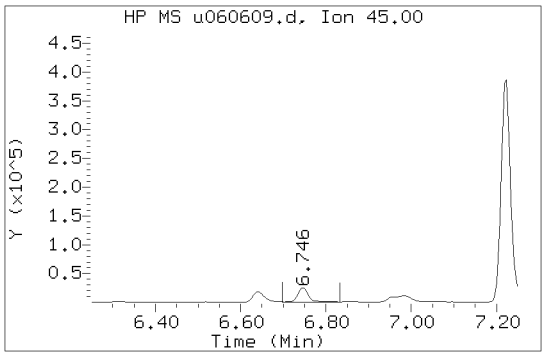

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Report Date: 21-Jun-2023 13:49

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060610.D
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Inj Date : 06-JUN-2023 14:35
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Smp Info : VSTD050;VSTD050;1;7;
Misc Info : V9;WATER;0;1;
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Als bottle: 11 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7051

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)	676524	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.242)	301782	50.0000	48.28
3	Chloromethane	50	1.303	1.303	(0.270)	533277	50.0000	52.32
5	Vinyl Chloride	62	1.381	1.381	(0.287)	371826	50.0000	51.96
6	Bromomethane	94	1.625	1.625	(0.337)	189385	50.0000	51.52
7	Chloroethane	64	1.704	1.704	(0.354)	235929	50.0000	48.94
8	Trichlorofluoromethane	101	1.903	1.903	(0.395)	408187	50.0000	49.66
9	Acrolein	56	2.270	2.270	(0.471)	34711	100.000	96.66
10	Acetone	43	2.416	2.416	(0.501)	245967	100.000	106.19
11	1,1-Dichloroethene	96	2.337	2.337	(0.485)	253953	50.0000	49.45
15	Iodomethane	142	2.476	2.476	(0.514)	311144	100.000	80.01
16	Acrylonitrile	53	3.072	3.072	(0.638)	238722	100.000	95.15
17	Methylene Chloride	84	2.798	2.798	(0.581)	313459	50.0000	50.82
18	Methyl tert-butyl ether	73	3.087	3.087	(0.641)	751017	50.0000	47.69
19	Carbon Disulfide	76	2.525	2.525	(0.524)	1424175	100.000	103.74
20	trans-1,2-Dichloroethene	96	3.065	3.065	(0.636)	287983	50.0000	51.56
21	Vinyl Acetate	43	3.612	3.612	(0.750)	1688425	100.000	99.18
22	1,1-Dichloroethane	63	3.522	3.522	(0.731)	510453	50.0000	48.09
24	2-Butanone	43	4.272	4.272	(0.886)	284571	100.000	92.25
26	2,2-Dichloropropane	77	4.185	4.185	(0.869)	344673	50.0000	49.12

27	cis-1,2-Dichloroethene	96	4.200	4.200 (0.872)	330459	50.0000	49.46
28	Chloroform	83	4.579	4.579 (0.950)	553969	50.0000	50.15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	29 Bromochloromethane	128	4.474	4.474	(0.928)	180688	50.0000	48.34
$	30 Dibromofluoromethane	113	4.752	4.752	(0.986)	271537	50.0000	47.80
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	427820	50.0000	50.81
	32 1,1-Dichloropropene	75	4.924	4.924	(0.886)	378122	50.0000	50.72
	33 1,2-Dichloroethane	62	5.179	5.179	(0.932)	428044	50.0000	48.61
	34 Carbon Tetrachloride	117	4.913	4.913	(0.884)	352021	50.0000	51.40
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	303470	50.0000	49.38
*	36 1,4-Difluorobenzene	114	5.557	5.557	(1.000)	1017200	50.0000	
	37 Benzene	78	5.141	5.141	(0.925)	1252175	50.0000	51.08
	38 Trichloroethene	130	5.790	5.790	(1.042)	345905	50.0000	48.68
	39 Bromodichloromethane	83	6.281	6.281	(1.130)	388938	50.0000	50.86
	41 2-Chloroethylvinyl ether	63	6.581	6.581	(1.184)	17983	100.000	97.24(M)
	42 1,2-Dichloropropane	63	6.015	6.015	(1.082)	326747	50.0000	49.92
	44 Dibromomethane	93	6.124	6.124	(1.102)	203401	50.0000	48.64
	45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	697558	100.000	98.05
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.204)	477156	50.0000	46.71
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	976881	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	1047714	50.0000	47.38(M)
	50 Toluene	91	6.982	6.982	(0.853)	1342745	50.0000	50.67
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.295)	395477	50.0000	46.15
	52 2-Hexanone	43	7.593	7.593	(0.928)	463757	100.000	93.61
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	255402	50.0000	46.32
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	550839	50.0000	48.90
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	344538	50.0000	52.67
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	304966	50.0000	47.24
	57 1,2-Dibromoethane	107	7.788	7.788	(0.951)	322319	50.0000	47.39
	58 1-Chlorohexane	55	8.197	8.197	(1.475)	234412	50.0000	44.87
	59 Chlorobenzene	112	8.212	8.212	(1.003)	916475	50.0000	48.46
	60 1,1,1,2-Tetrachloroethane	131	8.287	8.287	(1.012)	327010	50.0000	50.31
	61 Ethylbenzene	106	8.309	8.309	(1.015)	443008	50.0000	50.33
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	1096202	100.000	105.27
	63 o-Xylene	106	8.748	8.748	(1.069)	532694	50.0000	51.78
	64 Styrene	104	8.763	8.763	(1.071)	873807	50.0000	53.52
	66 Bromoform	173	8.920	8.920	(1.090)	227224	50.0000	51.46
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	1269616	50.0000	51.38
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	438008	50.0000	45.99
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	425877	50.0000	48.86
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	506267	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	396260	50.0000	47.29
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	1350525	50.0000	50.85
	74 Bromobenzene	156	9.317	9.317	(0.916)	406120	50.0000	47.54
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	873885	50.0000	47.96
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	927058	50.0000	49.66
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	1031057	50.0000	49.89
	78 tert-Butylbenzene	119	9.838	9.838	(0.967)	874077	50.0000	48.84
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	861955	50.0000	45.21
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	1105877	50.0000	48.73
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	895378	50.0000	47.09
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	679277	50.0000	46.82
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	709983	50.0000	45.89
	87 n-Butylbenzene	91	10.491	10.491	(1.031)	741855	50.0000	45.58
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	681773	50.0000	46.86

89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169 (1.098)	66094	50.0000	47.56
90	1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	468840	50.0000	46.85

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
91	Hexachlorobutadiene	225	11.998	11.998	(1.179)	174158	50.0000	43.10
92	Naphthalene	128	12.065	12.065	(1.186)	1175644	50.0000	50.58
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	463613	50.0000	47.39
M 94	1,2-Dichloroethylene (total)	96				618442	100.000	(a)
135	1,4-Dioxane	88	6.172	6.172	(1.281)	89225	1000.00	664.21
141	Cyclohexane	56	4.785	4.785	(0.993)	384146	50.0000	46.29
138	Freon TF	101	2.341	2.341	(0.486)	217639	50.0000	47.90
140	1,3-Butadiene	54	1.408	1.408	(0.292)	329617	50.0000	51.44
147	Methylcyclohexane	55	5.951	5.951	(1.071)	649753	50.0000	46.04
146	Methyl Acetate	43	2.720	2.720	(0.564)	254836	50.0000	44.73
148	Tert-Butyl alcohol	59	2.975	2.975	(0.617)	592187	1000.00	947.12
149	Isopropyl Alcohol	45	2.570	2.570	(0.533)	395875	1000.00	895.11
72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	53071	50.0000	47.18(M)
12	Isobutyl Alcohol	43	5.291	5.291	(1.098)	891975	1000.00	1014.77(M)
13	Acetonitrile	39	2.678	2.678	(0.556)	355989	500.000	486.02
14	Allyl Chloride	41	2.678	2.678	(0.556)	838850	50.0000	47.75
25	Methacrylonitrile	41	4.500	4.500	(0.934)	196618	50.0000	49.19
40	Methyl Methacrylate	41	6.161	6.161	(1.278)	297279	50.0000	51.10
4	Propionitrile	54	4.343	4.343	(0.901)	467472	500.000	478.18
136	n-Hexane	57	3.350	3.350	(0.695)	256401	50.0000	45.49
194	Acetaldehyde	44	1.464	1.464	(0.304)	182837	200.000	195.95(M)
131	Methyl Acrylate	55	4.377	4.377	(0.908)	350463	50.0000	48.98(M)
200	Dimethyl Disulfide	94	6.750	6.750	(0.825)	275143	50.0000	38.98
23	Chloroprene	53	2.165	2.165	(0.449)	103984	50.0000	48.19(M)
49	Ethyl Methacrylate	69	7.293	7.293	(1.312)	443431	50.0000	49.73
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	871855	50.0000	44.80
167	Ethanol	45	2.090	2.090	(0.434)	83818	1000.00	992.72
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	1102255	50.0000	44.63
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	398013	50.0000	42.48
142	Tetrahydrofuran	42	4.549	4.549	(0.944)	124830	100.000	104.57
156	Diisopropyl ether	45	3.627	3.627	(0.753)	905553	50.0000	48.00
151	4-Methyl-2-pentanol	45	7.222	7.222	(1.299)	1360403	1000.00	899.38
150	Allyl alcohol	57	3.350	3.350	(0.695)	256401	1000.00	910.24
86	Benzyl Chloride	91	10.311	10.311	(1.260)	234906	50.0000	40.89
162	Butyl acrylate	55	8.733	8.733	(1.067)	552381	50.0000	47.80
139	Diethyl ether	59	2.150	2.150	(0.446)	220811	50.0000	48.30
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	214955	50.0000	44.70
134	Cyclohexanone	55	9.156	9.156	(0.900)	291143	1000.00	927.60
130	Ethyl Acetate	43	4.272	4.272	(0.886)	275065	50.0000	45.48(M)
189	n-Butyl acetate	43	7.709	7.709	(0.942)	537633	50.0000	48.33(M)
182	Epichlorohydrin	57	6.637	6.637	(1.194)	17348	200.000	179.78
132	n-Butanol	56	5.835	5.835	(1.211)	176825	1000.00	918.25

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01201831

Data File: \\nahstws005\target\chem\voa9.i\u230606.b\u060610.d

Page 1

Date : 06-JUN-2023 14:35

Client ID: VSTD050

Instrument: VOA9.i

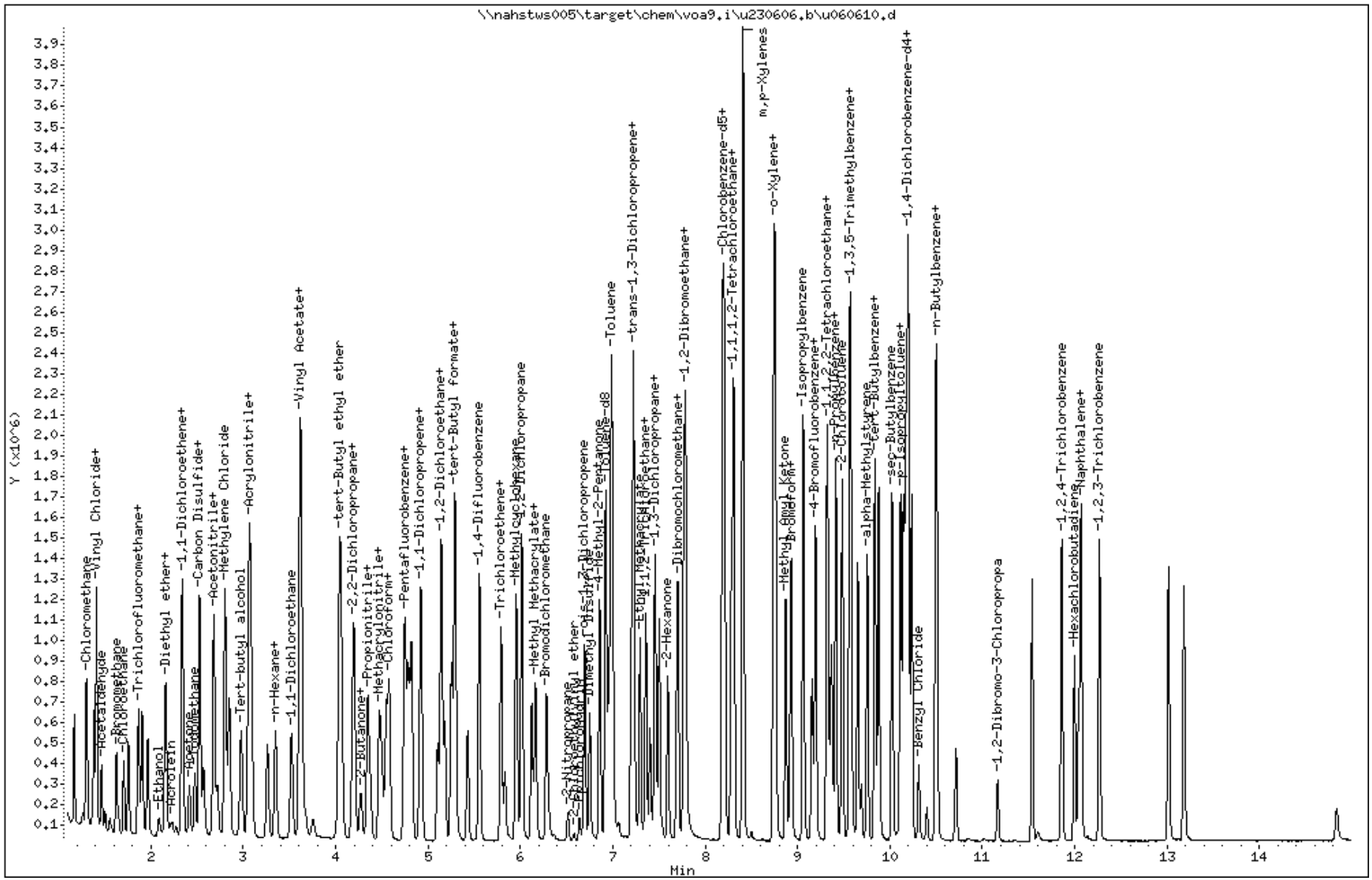
Sample Info: VSTD050;VSTD050;1;7;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Inj Date : 06-JUN-2023 14:35
InstruID : VOA9.i
LabSampID : VSTD050

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

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14:56
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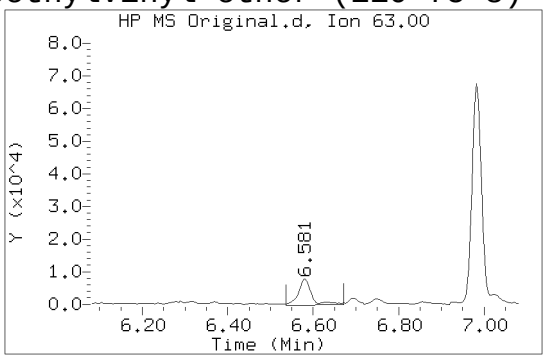

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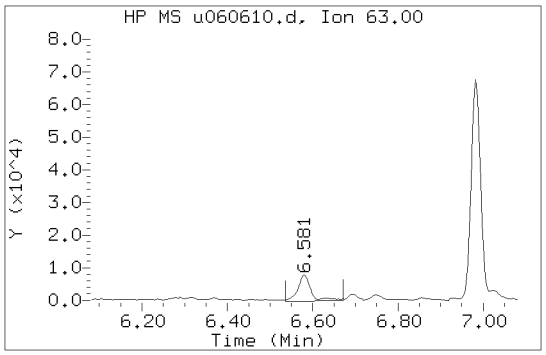

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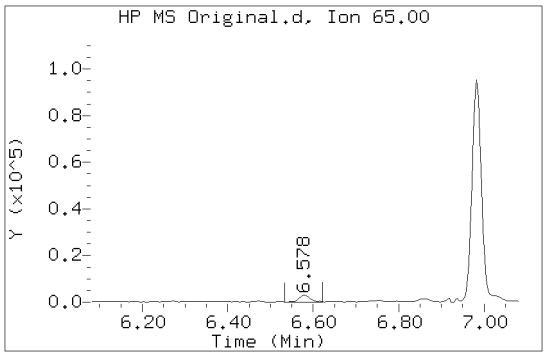

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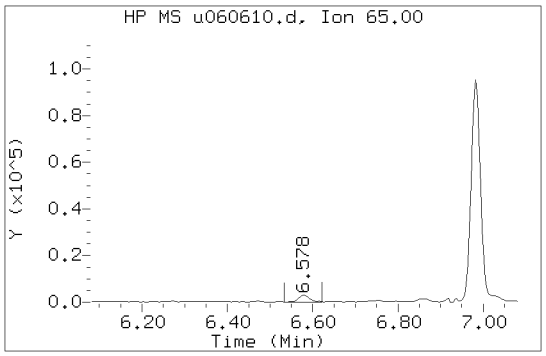

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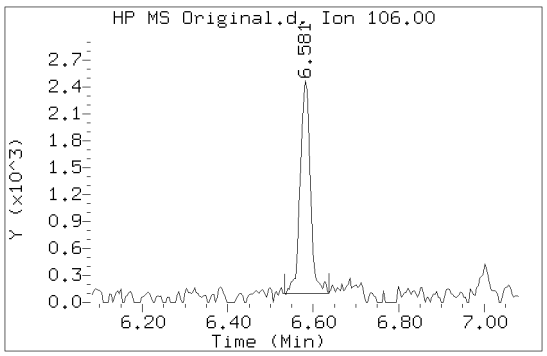

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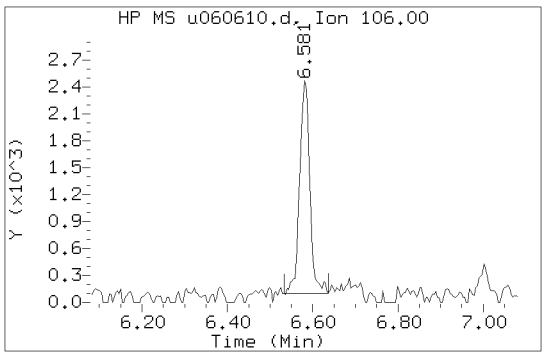

Isobutyl Alcohol (78-83-1)

Reason Code:

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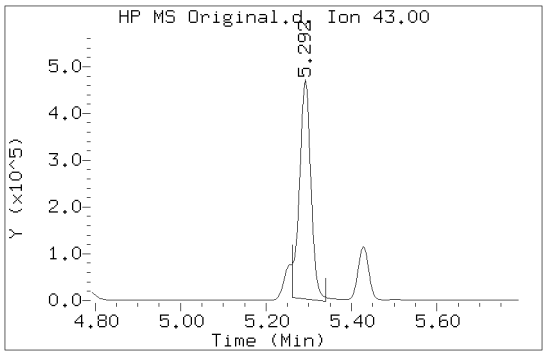

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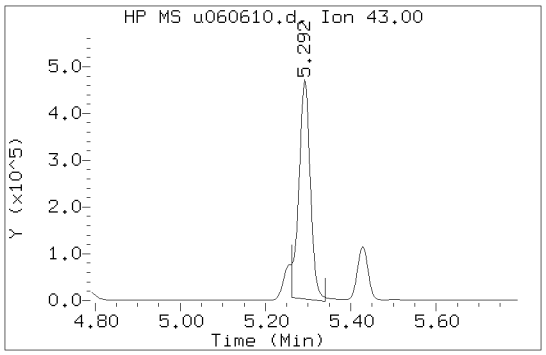

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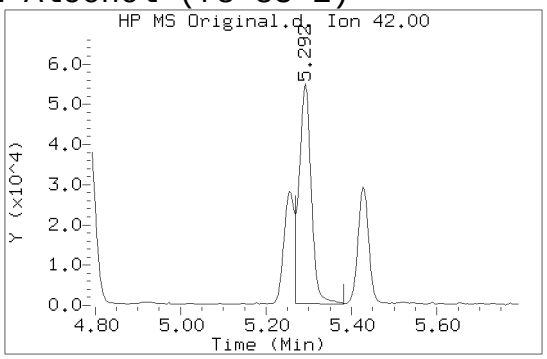
Inj Date : 06-JUN-2023 14:35
InstruID : VOA9.i
LabSampID : VSTD050

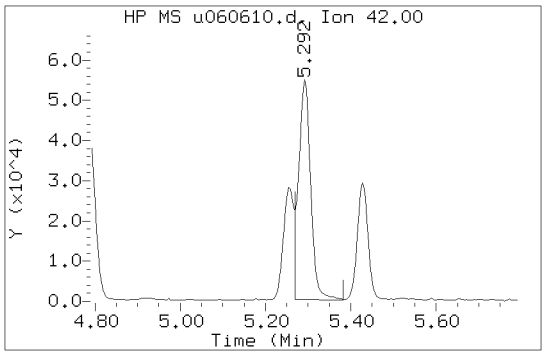
Isobutyl Alcohol (78-83-1)

Reason Code:

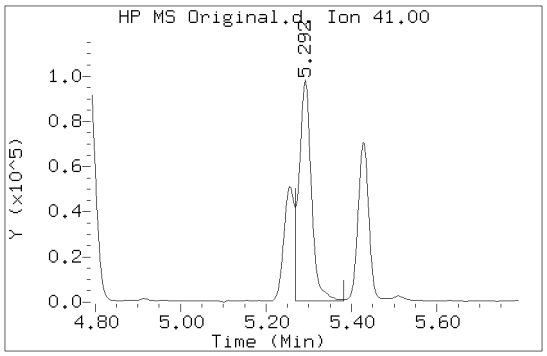
BEFORE
MASS
42
AREA
109693
HEIGHT
54695
08-Jun-2023
14:56
linh
pham



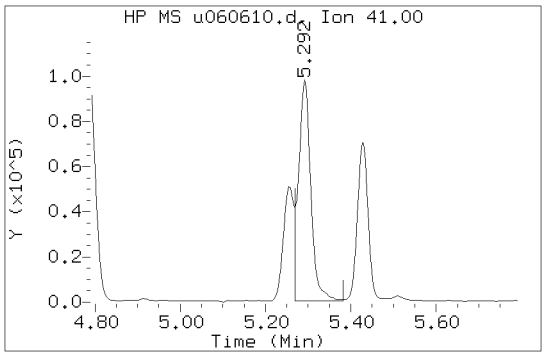
AFTER
MASS
42
AREA
109693
HEIGHT
54695
21-Jun-2023
13:49
linh
pha



BEFORE
MASS
41
AREA
200117
HEIGHT
97881
08-Jun-2023
14:56
linh
pham



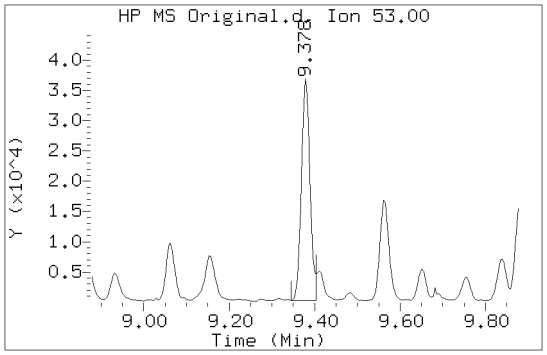
AFTER
MASS
41
AREA
200117
HEIGHT
97881
21-Jun-2023
13:49
linh
pha



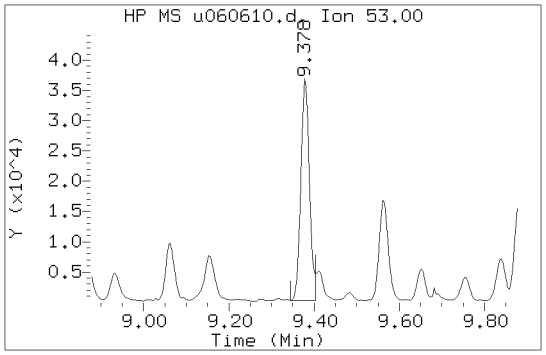
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

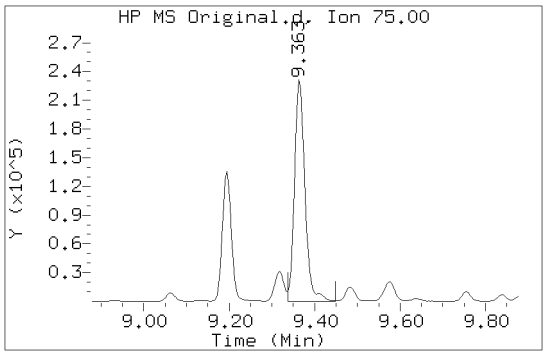
BEFORE
MASS
53
AREA
53071
HEIGHT
36577
08-Jun-2023
14:56
linh
pham



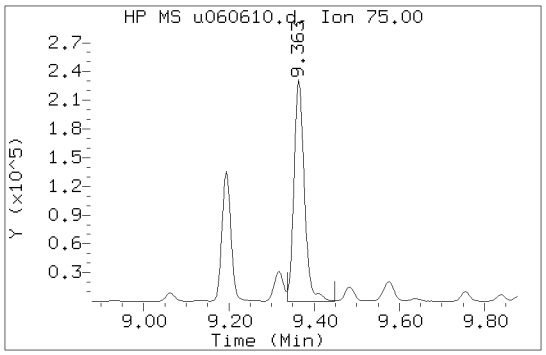
AFTER
MASS
53
AREA
53071
HEIGHT
36577
21-Jun-2023
13:49
linh
pha



BEFORE
MASS
75
AREA
396260
HEIGHT
231235
08-Jun-2023
14:56
linh
pham



AFTER
MASS
75
AREA
396260
HEIGHT
231235
21-Jun-2023
13:49
linh
pha

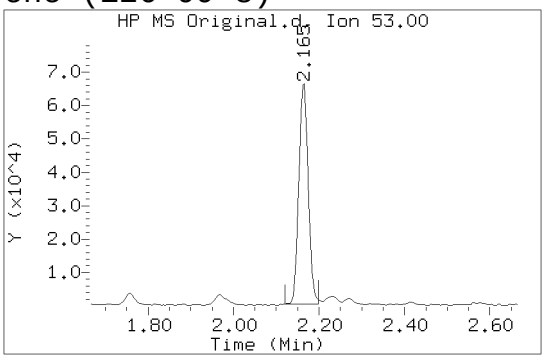


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060610.d
Inj Date : 06-JUN-2023 14:35
InstruID : VOA9.i
LabSampID : VSTD050

Chloroprene (126-99-8)

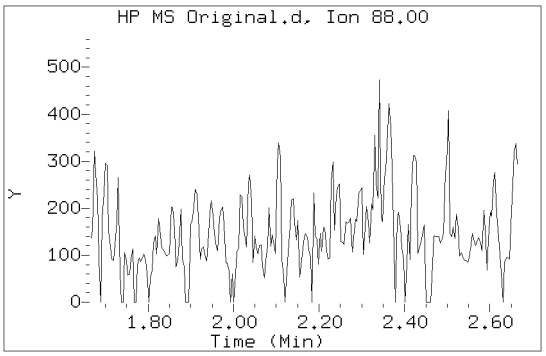
BEFORE

MASS
53
AREA
103984
HEIGHT
65956
08-Jun-2023
14:56
linh
pham



BEFORE

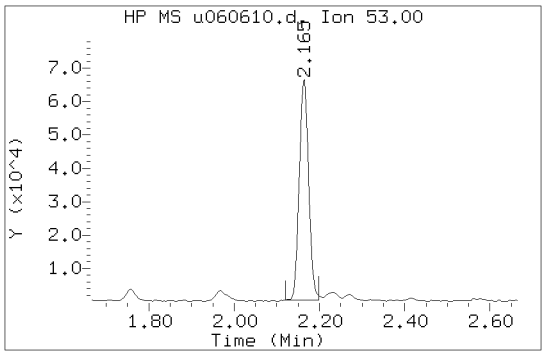
MASS
88
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



Reason Code:

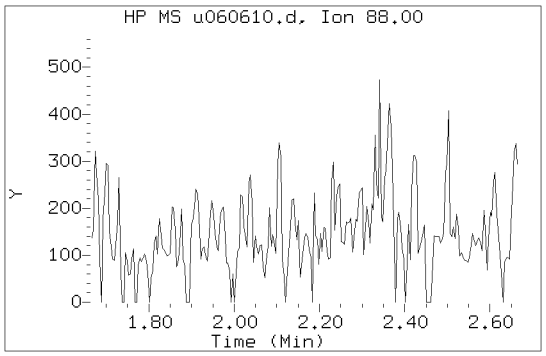
AFTER

MASS
53
AREA
103984
HEIGHT
65956
21-Jun-2023
13:49
linh
pha



AFTER

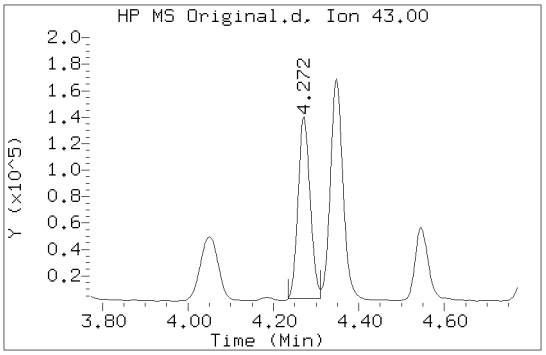
MASS
88
AREA
0
HEIGHT
0
21-Jun-2023
13:49
linh
pha



Ethyl Acetate (141-78-6)

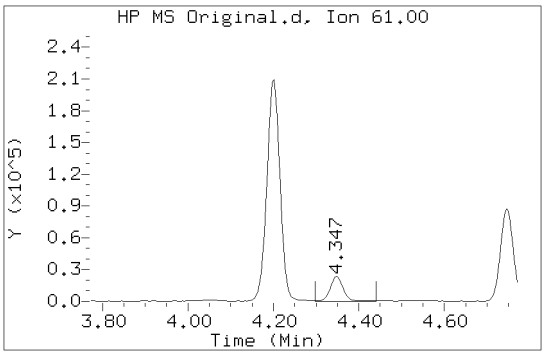
BEFORE

MASS
43
AREA
275065
HEIGHT
137464
08-Jun-2023
14:56
linh
pham



BEFORE

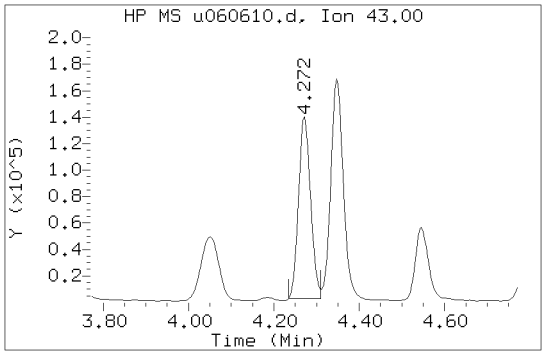
MASS
61
AREA
48522
HEIGHT
23550
08-Jun-2023
14:56
linh
pham



Reason Code:

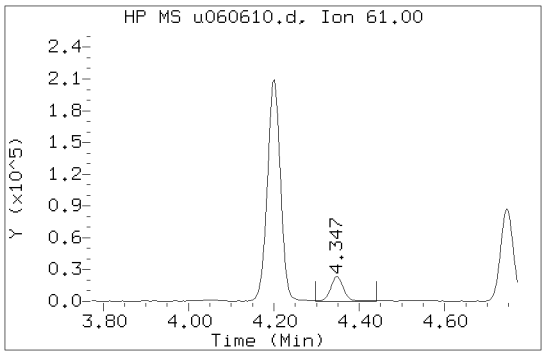
AFTER

MASS
43
AREA
275065
HEIGHT
137464
21-Jun-2023
13:49
linh
pha



AFTER

MASS
61
AREA
48522
HEIGHT
23550
21-Jun-2023
13:49
linh
pha



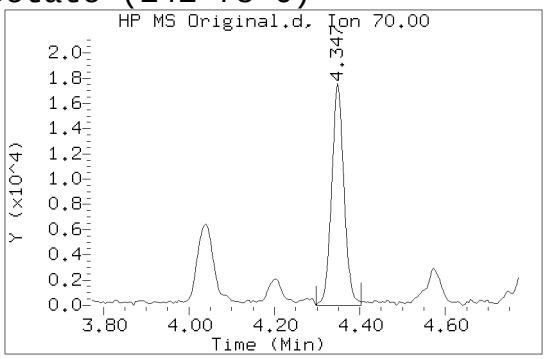
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060610.d
Inj Date : 06-JUN-2023 14:35
InstruID : VOA9.i
LabSampID : VSTD050

Ethyl Acetate (141-78-6)

Reason Code:

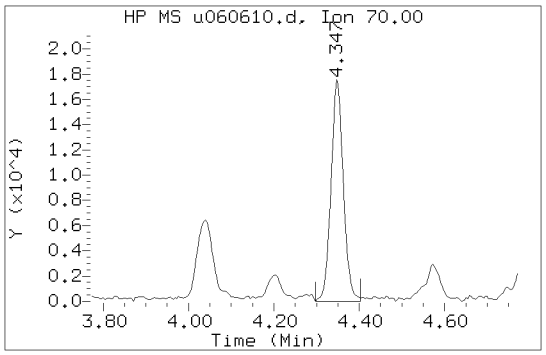
BEFORE

MASS
70
AREA
35210
HEIGHT
17560
08-Jun-2023
14:56
linh
pham



AFTER

MASS
70
AREA
35210
HEIGHT
17560
21-Jun-2023
13:49
linh
pha

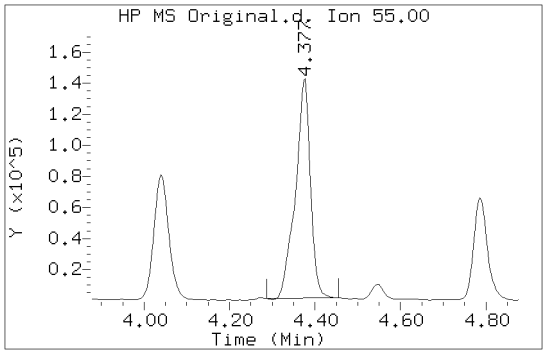


Methyl Acrylate (96-33-3)

Reason Code:

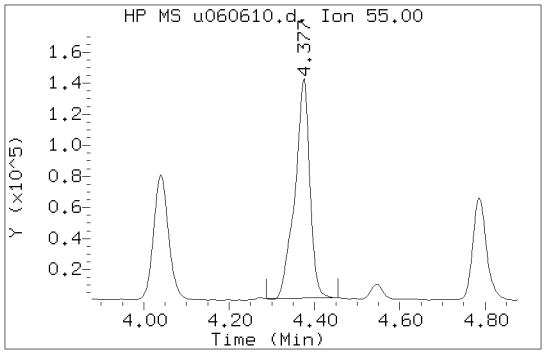
BEFORE

MASS
55
AREA
350463
HEIGHT
141367
08-Jun-2023
14:56
linh
pham



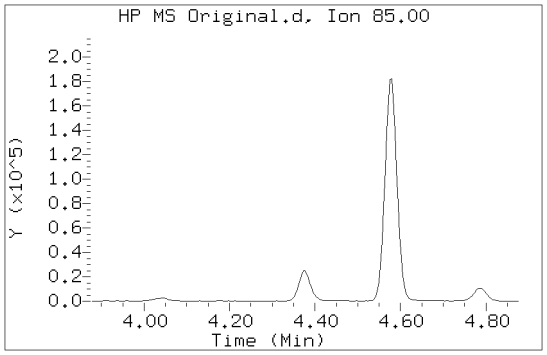
AFTER

MASS
55
AREA
350463
HEIGHT
141367
21-Jun-2023
13:49
linh
pha



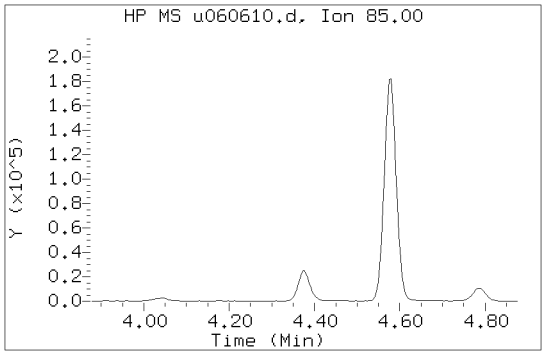
BEFORE

MASS
85
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
85
AREA
0
HEIGHT
0
21-Jun-2023
13:49
linh
pha

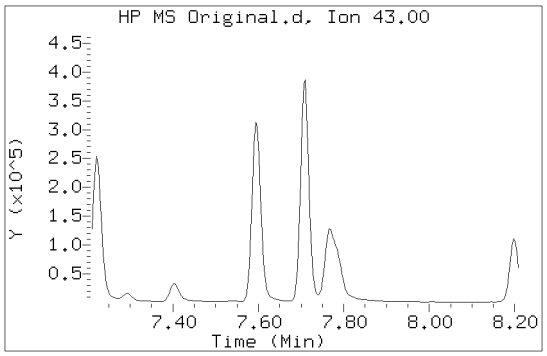


n-Butyl acetate (123-86-4)

Reason Code:

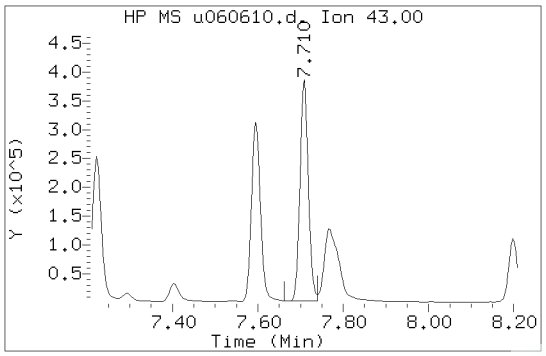
BEFORE

MASS
43
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

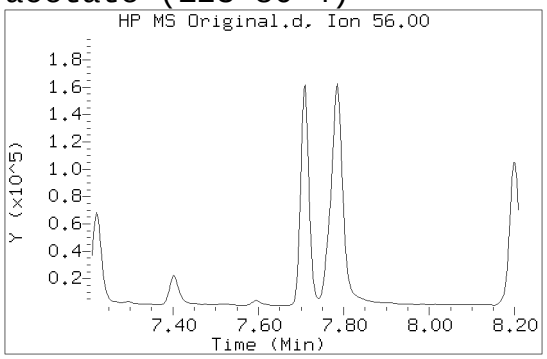
MASS
43
AREA
537633
HEIGHT
383148
21-Jun-2023
13:49
linh
pha



Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060610.d
Inj Date : 06-JUN-2023 14:35
InstruID : VOA9.i
LabSampID : VSTD050

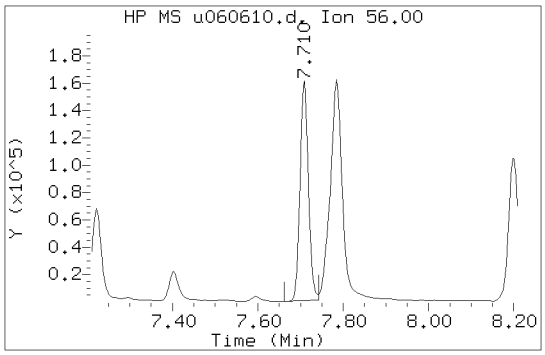
n-Butyl acetate (123-86-4)

BEFORE
MASS
56
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham

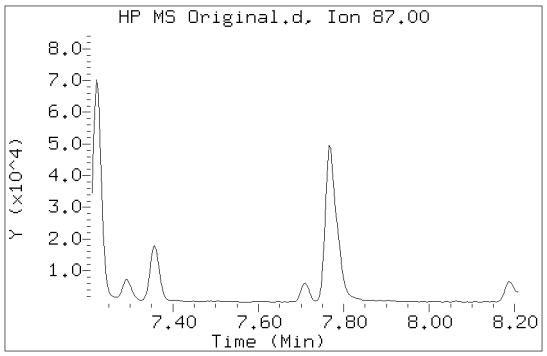


Reason Code:

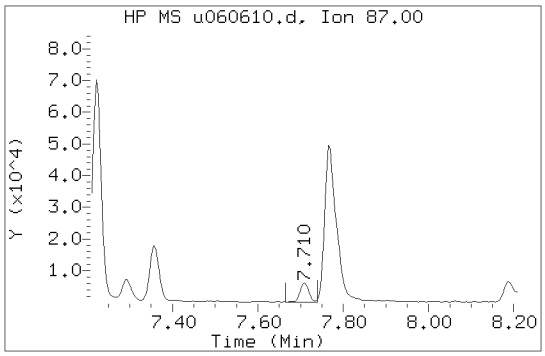
AFTER
MASS
56
AREA
225501
HEIGHT
160546
21-Jun-2023
13:49
linh
pha



BEFORE
MASS
87
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham

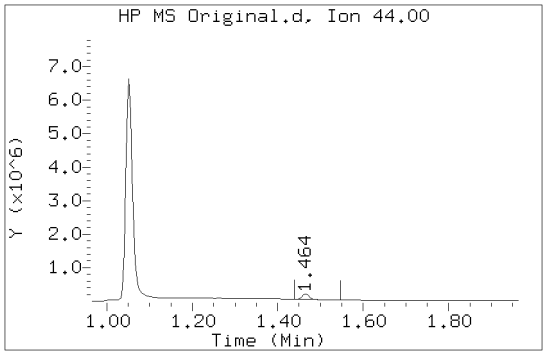


AFTER
MASS
87
AREA
8948
HEIGHT
6014
21-Jun-2023
13:49
linh
pha



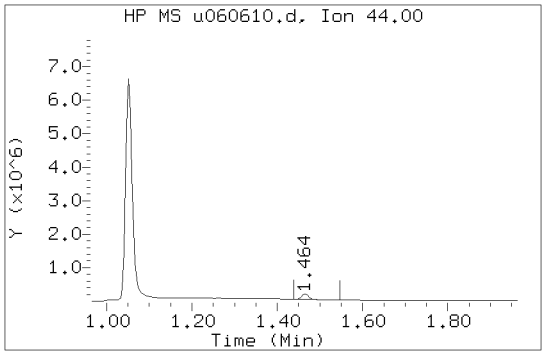
Acetaldehyde (75-07-0)

BEFORE
MASS
44
AREA
182837
HEIGHT
160861
08-Jun-2023
14:56
linh
pham

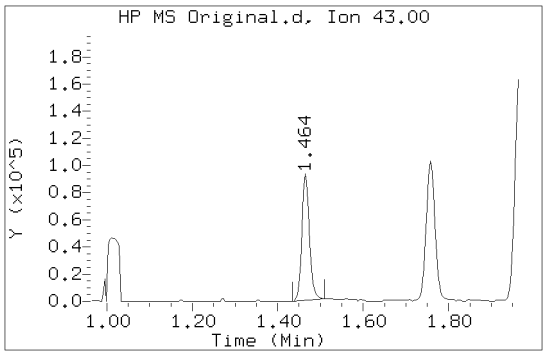


Reason Code:

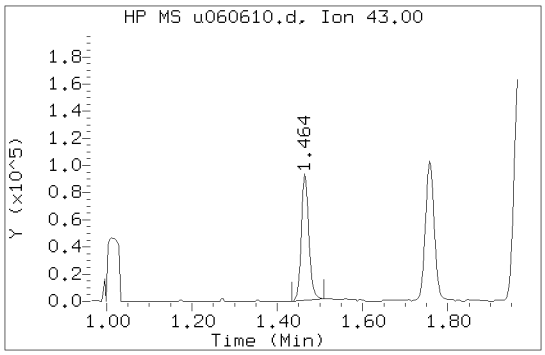
AFTER
MASS
44
AREA
182837
HEIGHT
160861
21-Jun-2023
13:49
linh
pha



BEFORE
MASS
43
AREA
115916
HEIGHT
93282
08-Jun-2023
14:56
linh
pham



AFTER
MASS
43
AREA
115916
HEIGHT
93282
21-Jun-2023
13:49
linh
pha



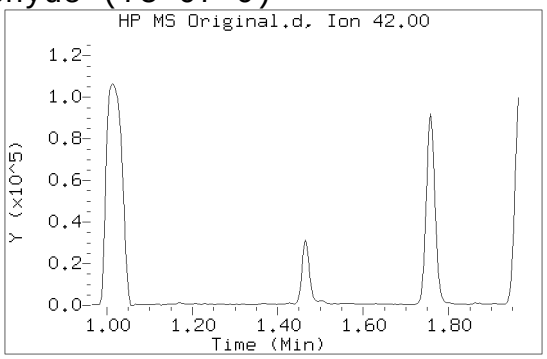
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060610.d
Inj Date : 06-JUN-2023 14:35
InstruID : VOA9.i
LabSampID : VSTD050

Acetaldehyde (75-07-0)

Reason Code:

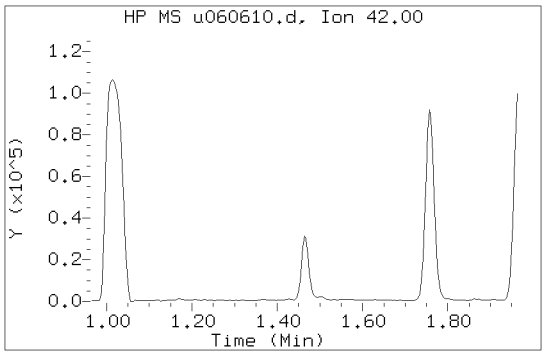
BEFORE

MASS
42
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
42
AREA
0
HEIGHT
0
21-Jun-2023
13:49
linh
pha

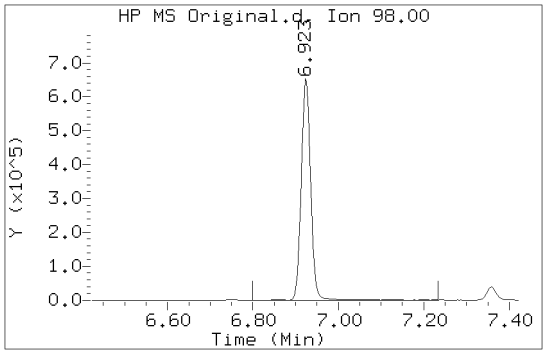


Toluene-d8 (2037-26-5)

Reason Code:

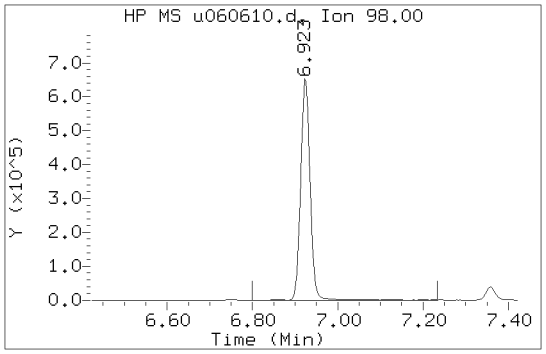
BEFORE

MASS
98
AREA
1047714
HEIGHT
653990
08-Jun-2023
14:56
linh
pham



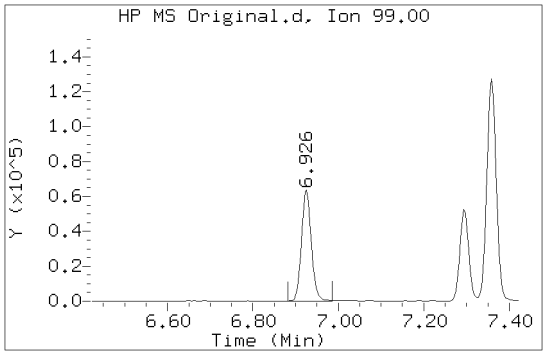
AFTER

MASS
98
AREA
1047714
HEIGHT
653990
21-Jun-2023
13:49
linh
pha



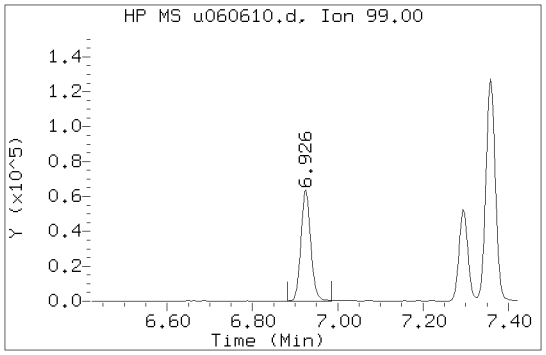
BEFORE

MASS
99
AREA
104983
HEIGHT
63672
08-Jun-2023
14:56
linh
pham



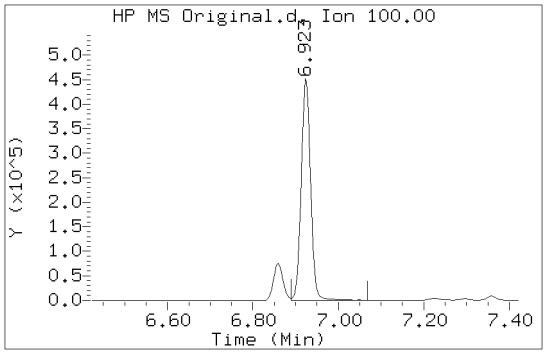
AFTER

MASS
99
AREA
104983
HEIGHT
63672
21-Jun-2023
13:49
linh
pha



BEFORE

MASS
100
AREA
706605
HEIGHT
451766
08-Jun-2023
14:56
linh
pham



AFTER

MASS
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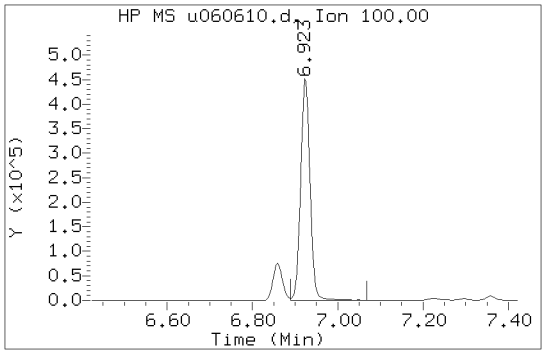
AREA
706605
HEIGHT
451766
21-Jun-2023
13:49
linh
pha



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060611.D Page 1
Report Date: 21-Jun-2023 13:48

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060611.D
Lab Smp Id: VSTD100 Client Smp ID: VSTD100
Inj Date : 06-JUN-2023 14:57
Operator : PC Inst ID: VOA9.i
Smp Info : VSTD100;VSTD100;1;8;
Misc Info : V9;WATER;0;1;
Comment :
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Meth Date : 21-Jun-2023 13:45 pcabasca Quant Type: ISTD
Cal Date : 06-JUN-2023 14:57 Cal File: U060611.D
Als bottle: 12 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14

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)	670070	50.0000	
2 Dichlorodifluoromethane	85	1.171	1.171	(0.243)	630744	100.000	101.79
3 Chloromethane	50	1.303	1.303	(0.270)	979734	100.000	98.21
5 Vinyl Chloride	62	1.385	1.385	(0.288)	740321	100.000	104.45
6 Bromomethane	94	1.621	1.621	(0.337)	362834	100.000	101.38
7 Chloroethane	64	1.704	1.704	(0.354)	467539	100.000	97.92
8 Trichlorofluoromethane	101	1.902	1.902	(0.395)	855761	100.000	105.12
9 Acrolein	56	2.274	2.274	(0.472)	67908	200.000	190.93
10 Acetone	43	2.416	2.416	(0.501)	467276	200.000	208.92
11 1,1-Dichloroethene	96	2.341	2.341	(0.486)	513614	100.000	100.98
15 Iodomethane	142	2.476	2.476	(0.514)	901104	200.000	199.55
16 Acrylonitrile	53	3.072	3.072	(0.638)	516348	200.000	207.79
17 Methylene Chloride	84	2.802	2.802	(0.582)	614571	100.000	101.61
18 Methyl tert-butyl ether	73	3.087	3.087	(0.641)	1584444	100.000	101.58
19 Carbon Disulfide	76	2.528	2.528	(0.525)	2847374	200.000	209.40
20 trans-1,2-Dichloroethene	96	3.065	3.065	(0.636)	568535	100.000	102.78
21 Vinyl Acetate	43	3.616	3.616	(0.750)	3561924	200.000	211.24
22 1,1-Dichloroethane	63	3.522	3.522	(0.731)	1000189	100.000	95.14
24 2-Butanone	43	4.272	4.272	(0.886)	586975	200.000	192.13
26 2,2-Dichloropropane	77	4.189	4.189	(0.869)	699035	100.000	100.17
27 cis-1,2-Dichloroethene	96	4.204	4.204	(0.872)	653745	100.000	98.79

28	Chloroform	83	4.579	4.579 (0.950)	1087668	100.000	99.41
29	Bromochloromethane	128	4.474	4.474 (0.928)	353937	100.000	95.61

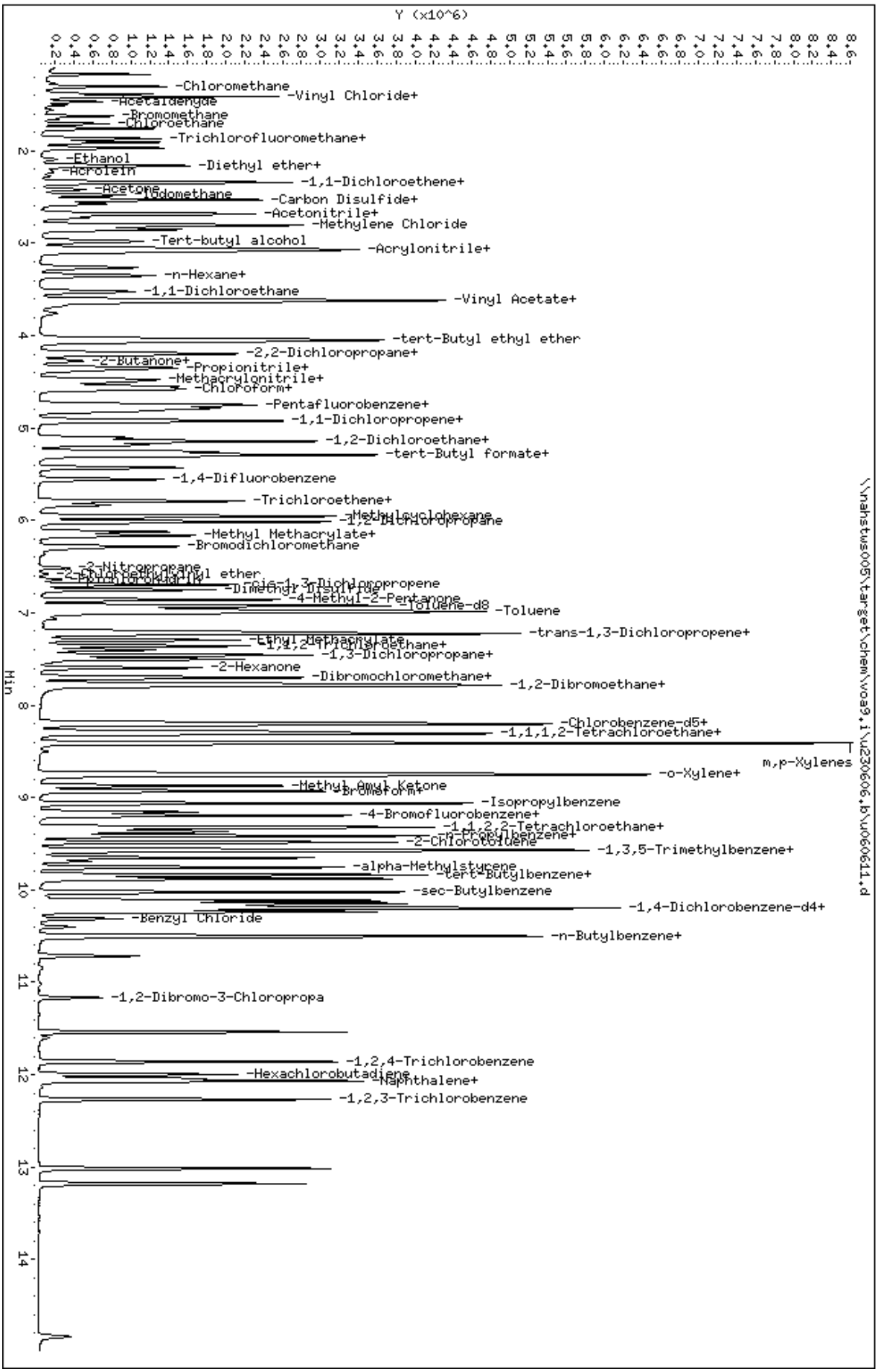
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
$	30 Dibromofluoromethane	113	4.755	4.755	(0.987)	587291	100.000	104.76
	31 1,1,1-Trichloroethane	97	4.748	4.748	(0.985)	877070	100.000	105.18
	32 1,1-Dichloropropene	75	4.924	4.924	(0.886)	789905	100.000	106.49
	33 1,2-Dichloroethane	62	5.183	5.183	(0.933)	859937	100.000	98.17
	34 Carbon Tetrachloride	117	4.916	4.916	(0.885)	751459	100.000	110.29
$	35 1,2-Dichloroethane-d4	65	5.104	5.104	(1.059)	630129	100.000	104.27
*	36 1,4-Difluorobenzene	114	5.557	5.557	(1.000)	1012041	50.0000	
	37 Benzene	78	5.141	5.141	(0.925)	2477058	100.000	101.57
	38 Trichloroethene	130	5.790	5.790	(1.042)	703907	100.000	99.58
	39 Bromodichloromethane	83	6.281	6.281	(1.130)	818290	100.000	107.56
	41 2-Chloroethylvinyl ether	63	6.581	6.581	(1.184)	40457	200.000	219.88
	42 1,2-Dichloropropane	63	6.015	6.015	(1.082)	652200	100.000	100.16
	44 Dibromomethane	93	6.123	6.123	(1.102)	418327	100.000	100.55
	45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	1453246	200.000	201.66
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.204)	1015887	100.000	97.77
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	989593	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	2212089	100.000	98.76
	50 Toluene	91	6.982	6.982	(0.853)	2683985	100.000	99.99
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.295)	857257	100.000	98.18
	52 2-Hexanone	43	7.593	7.593	(0.928)	985396	200.000	196.34
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	529613	100.000	94.83
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	1115267	100.000	97.74
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	737148	100.000	111.24
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	639857	100.000	97.84
	57 1,2-Dibromoethane	107	7.788	7.788	(0.951)	667663	100.000	96.91
	58 1-Chlorohexane	55	8.196	8.196	(1.475)	524953	100.000	101.01
	59 Chlorobenzene	112	8.211	8.211	(1.003)	1872827	100.000	97.76
	60 1,1,1,2-Tetrachloroethane	131	8.286	8.286	(1.012)	680431	100.000	103.34
	61 Ethylbenzene	106	8.309	8.309	(1.015)	943978	100.000	105.87
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	2348572	200.000	222.64
	63 o-Xylene	106	8.748	8.748	(1.069)	1136322	100.000	109.04
	64 Styrene	104	8.763	8.763	(1.071)	1895390	100.000	114.61
	66 Bromoform	173	8.920	8.920	(1.090)	516461	100.000	115.46
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	2761754	100.000	110.34
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	908699	100.000	94.04
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	923899	100.000	105.68
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	513703	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	846266	100.000	99.55
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	3014111	100.000	111.86
	74 Bromobenzene	156	9.317	9.317	(0.916)	845025	100.000	97.49
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	1940177	100.000	104.95
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	1931083	100.000	101.94
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	2158910	100.000	102.96
	78 tert-Butylbenzene	119	9.838	9.838	(0.967)	1926006	100.000	106.08
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	1885486	100.000	97.48
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	2529836	100.000	109.87
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	2089715	100.000	108.33
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	1428807	100.000	97.05
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	1475761	100.000	94.02
	87 n-Butylbenzene	91	10.494	10.494	(1.032)	1713959	100.000	103.79
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	1414908	100.000	95.85
	89 1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	145818	100.000	103.41

90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	1004776	100.000	98.96
91 Hexachlorobutadiene	225	11.998	11.998 (1.179)	399123	100.000	97.34

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	92 Naphthalene	128	12.065	12.065	(1.186)	2448621	100.000	103.83
	93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	976842	100.000	98.42
M	94 1,2-Dichloroethylene (total)	96				1222280	200.000	201.57
M	95 Xylenes (total)	106				3484894	300.000	331.69
	135 1,4-Dioxane	88	6.172	6.172	(1.281)	185267	2000.00	1392.45
	141 Cyclohexane	56	4.785	4.785	(0.993)	872566	100.000	102.63
	138 Freon TF	101	2.345	2.345	(0.487)	480519	100.000	106.77
	140 1,3-Butadiene	54	1.411	1.411	(0.293)	678126	100.000	106.86
	147 Methylcyclohexane	55	5.951	5.951	(1.071)	1558687	100.000	111.02(A)
	146 Methyl Acetate	43	2.720	2.720	(0.564)	537399	100.000	95.24
	148 Tert-Butyl alcohol	59	2.978	2.978	(0.618)	1263261	2000.00	2045.59
	149 Isopropyl Alcohol	45	2.573	2.573	(0.534)	847444	2000.00	1934.60
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	125171	100.000	109.85(M)
	12 Isobutyl Alcohol	43	5.291	5.291	(1.098)	1859195	2000.00	2135.51(M)
	13 Acetonitrile	39	2.678	2.678	(0.556)	750162	1000.00	1034.05
	14 Allyl Chloride	41	2.678	2.678	(0.556)	1757558	100.000	101.02
	25 Methacrylonitrile	41	4.500	4.500	(0.934)	417519	100.000	105.46
	40 Methyl Methacrylate	41	6.161	6.161	(1.278)	629718	100.000	109.29
	4 Propionitrile	54	4.347	4.347	(0.902)	963710	1000.00	995.29
	136 n-Hexane	57	3.349	3.349	(0.695)	595793	100.000	102.41
	194 Acetaldehyde	44	1.468	1.468	(0.305)	401024	400.000	433.93(M)
	131 Methyl Acrylate	55	4.377	4.377	(0.908)	743794	100.000	104.95(M)
	200 Dimethyl Disulfide	94	6.749	6.749	(0.825)	843448	100.000	100.11
	23 Chloroprene	53	2.165	2.165	(0.449)	214456	100.000	100.34(M)
	49 Ethyl Methacrylate	69	7.293	7.293	(1.312)	960371	100.000	108.25
	166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	1877988	100.000	95.10
	167 Ethanol	45	2.094	2.094	(0.435)	175232	2000.00	2120.76
	164 Dicyclopentadiene	66	10.202	10.202	(1.003)	2526635	100.000	100.82
	145 alpha-Methylstyrene	118	9.756	9.756	(0.959)	939505	100.000	94.14
	142 Tetrahydrofuran	42	4.549	4.549	(0.944)	246154	200.000	210.54
	156 Diisopropyl ether	45	3.631	3.631	(0.753)	1887901	100.000	101.04
	151 4-Methyl-2-pentanol	45	7.222	7.222	(1.299)	3087346	2000.00	2051.50
	150 Allyl alcohol	57	3.349	3.349	(0.695)	595793	2000.00	2048.16
	86 Benzyl Chloride	91	10.311	10.311	(1.260)	573982	100.000	93.75
	162 Butyl acrylate	55	8.733	8.733	(1.067)	1240696	100.000	105.99
	139 Diethyl ether	59	2.154	2.154	(0.447)	464259	100.000	102.54
	203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	534360	100.000	100.35
	134 Cyclohexanone	55	9.156	9.156	(0.900)	605439	2000.00	1901.05
	130 Ethyl Acetate	43	4.272	4.272	(0.886)	580165	100.000	96.86(M)
	189 n-Butyl acetate	43	7.709	7.709	(0.942)	1156578	100.000	102.64(M)
	182 Epichlorohydrin	57	6.633	6.633	(1.194)	42530	400.000	396.34
	132 n-Butanol	56	5.835	5.835	(1.211)	404429	2000.00	2120.43

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.



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Client ID: VSTD100
Sample Info: VSTD100;VSTD100;1;8;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: PC
Column diameter: 0.18

Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060611.d
Inj Date : 06-JUN-2023 14:57
InstruID : VOA9.i
LabSampID : VSTD100

Isobutyl Alcohol (78-83-1)

Reason Code:

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08-Jun-2023
14:56
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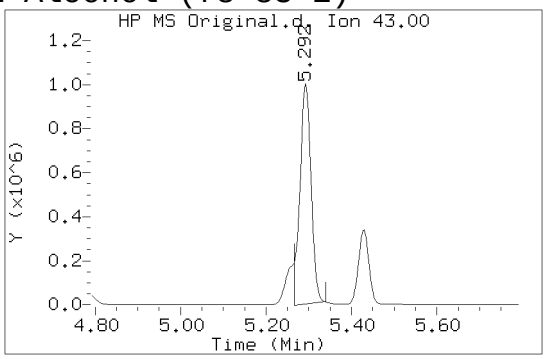

AFTER

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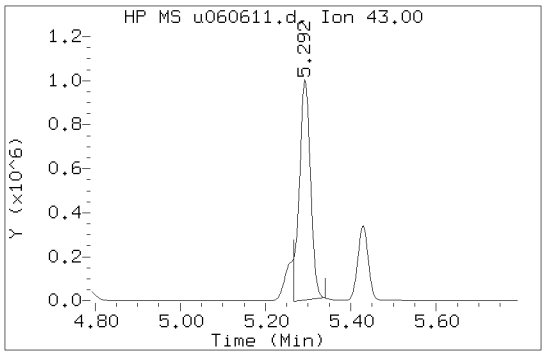

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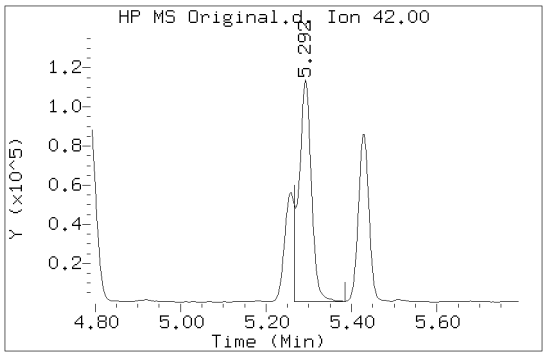

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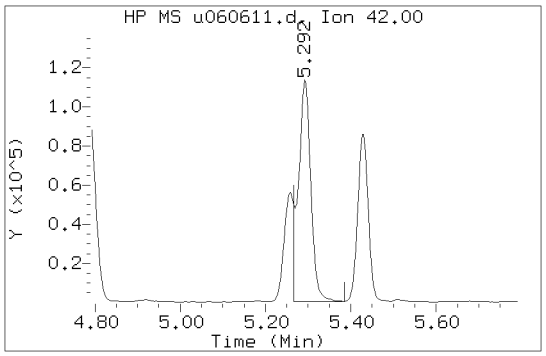

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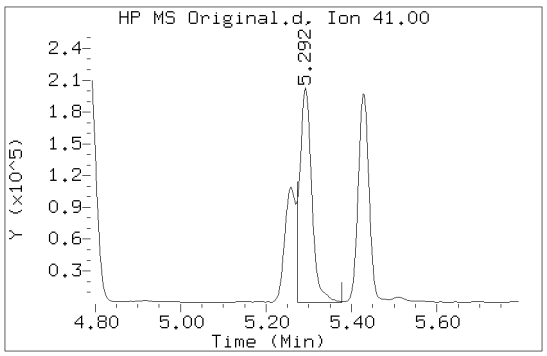

AFTER

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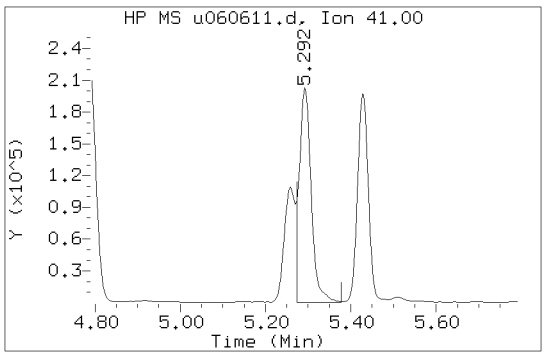

trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

BEFORE

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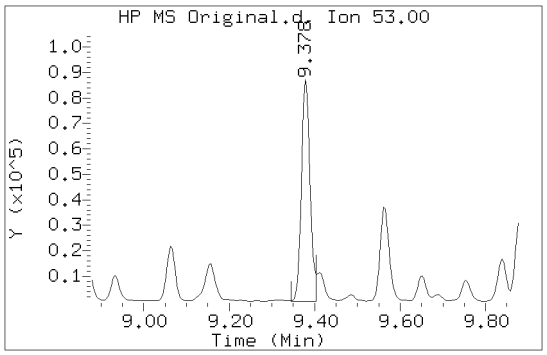

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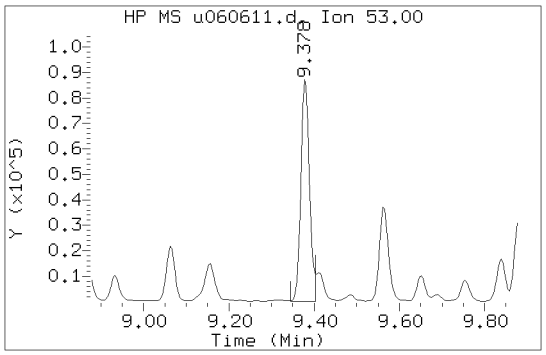

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Inj Date : 06-JUN-2023 14:57
InstruID : VOA9.i
LabSampID : VSTD100

trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

BEFORE

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08-Jun-2023
14:56
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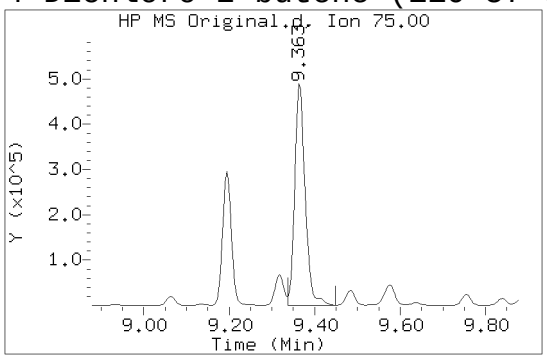
pham



AFTER

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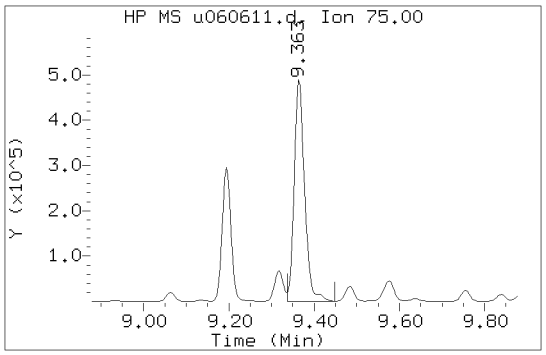

Chloroprene (126-99-8)

Reason Code:

BEFORE

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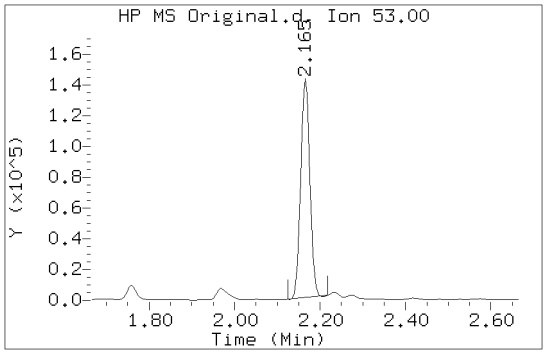
pham



AFTER

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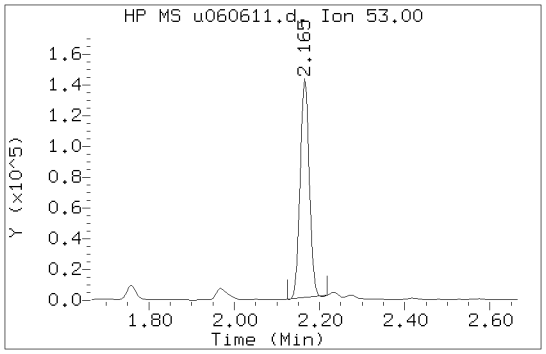

BEFORE

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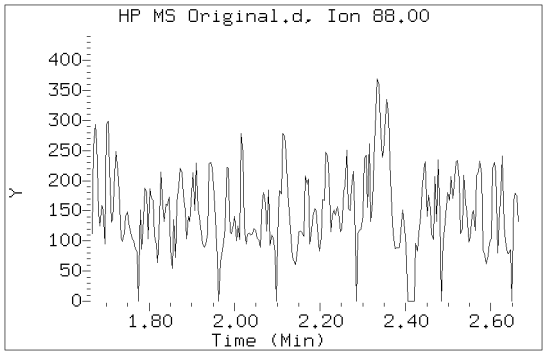

AFTER

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21-Jun-2023
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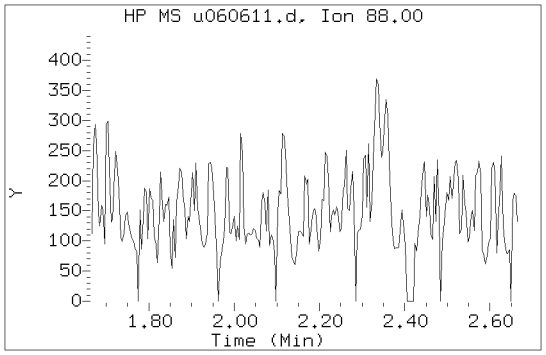

Ethyl Acetate (141-78-6)

Reason Code:

BEFORE

MASS
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08-Jun-2023
14:56
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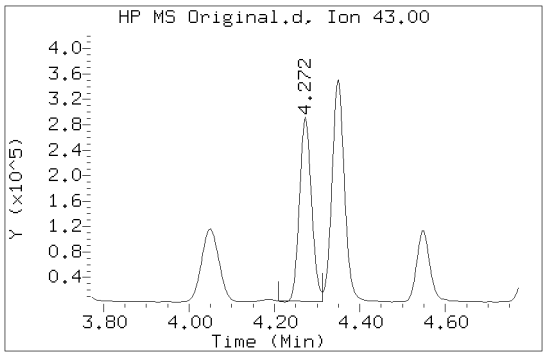

AFTER

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21-Jun-2023
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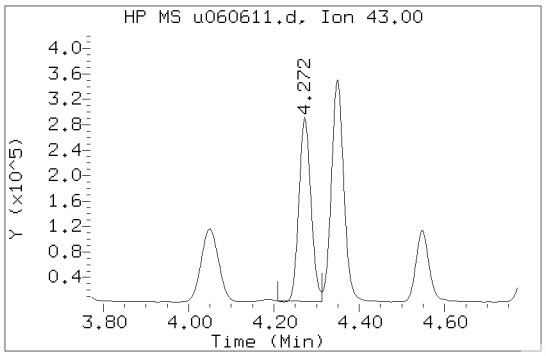

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Inj Date : 06-JUN-2023 14:57
InstruID : VOA9.i
LabSampID : VSTD100

Ethyl Acetate (141-78-6)

Reason Code:

BEFORE

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08-Jun-2023
14:56
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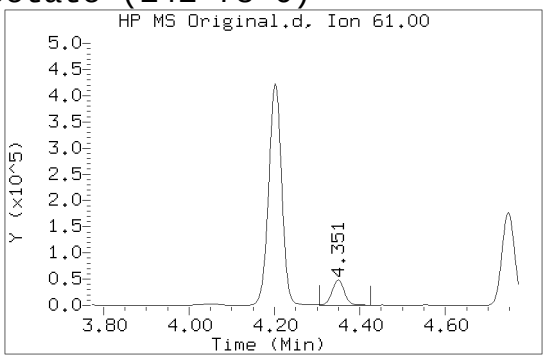

AFTER

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21-Jun-2023
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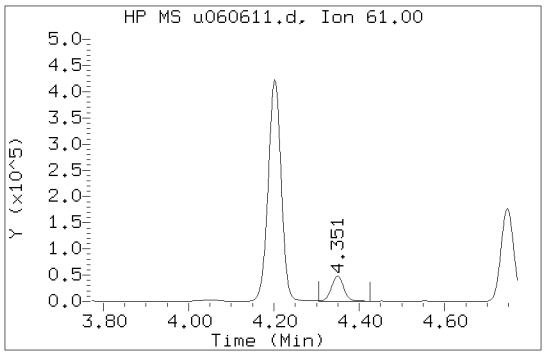

BEFORE

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08-Jun-2023
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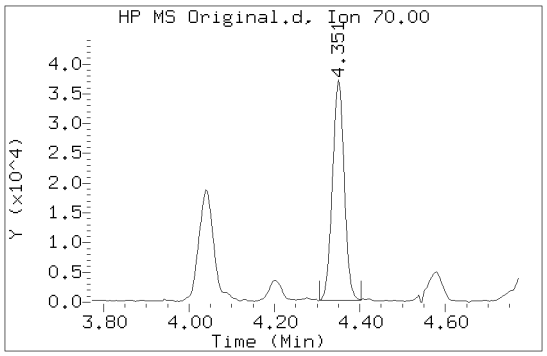

AFTER

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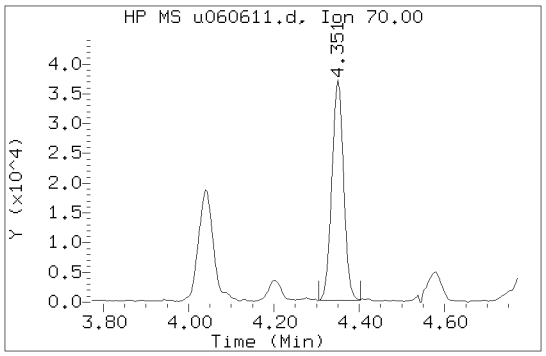

Methyl Acrylate (96-33-3)

Reason Code:

BEFORE

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08-Jun-2023
14:56
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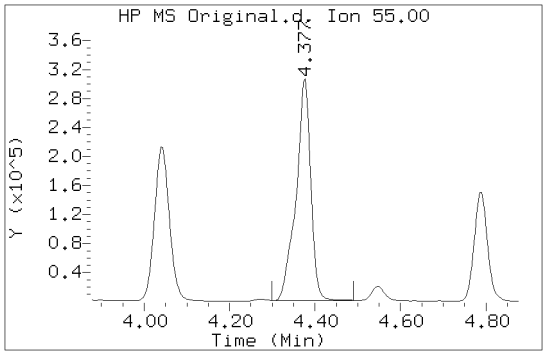

AFTER

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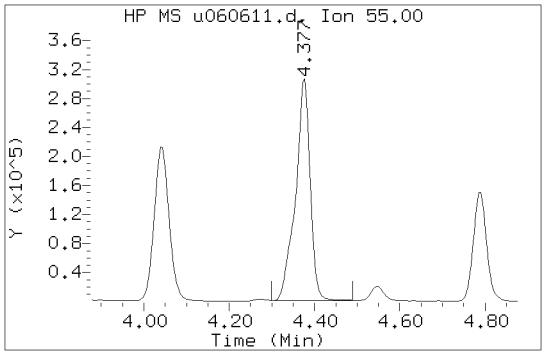

BEFORE

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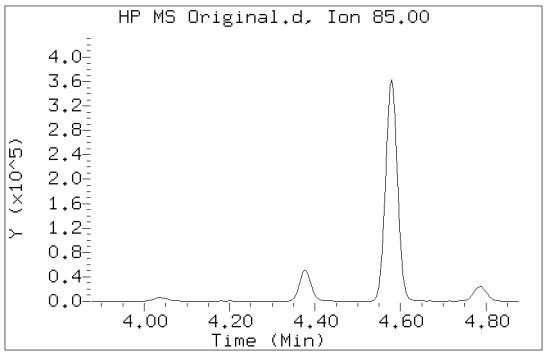

AFTER

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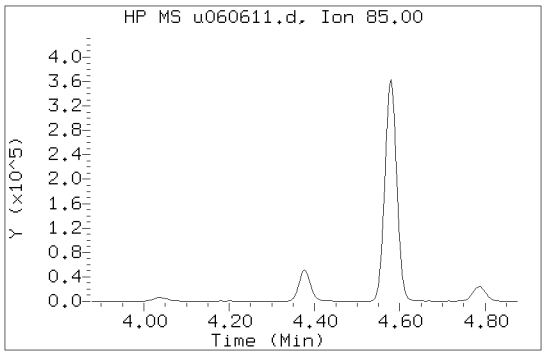

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Inj Date : 06-JUN-2023 14:57
InstruID : VOA9.i
LabSampID : VSTD100

n-Butyl acetate (123-86-4)

Reason Code:

BEFORE
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08-Jun-2023
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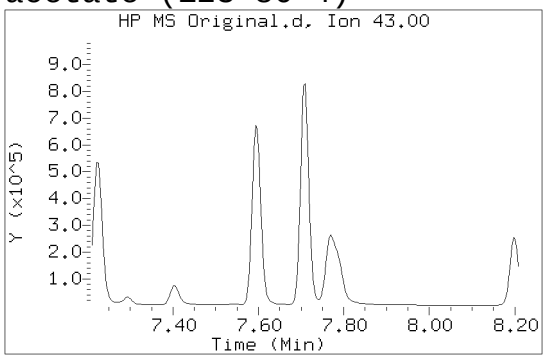

AFTER
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21-Jun-2023
13:48
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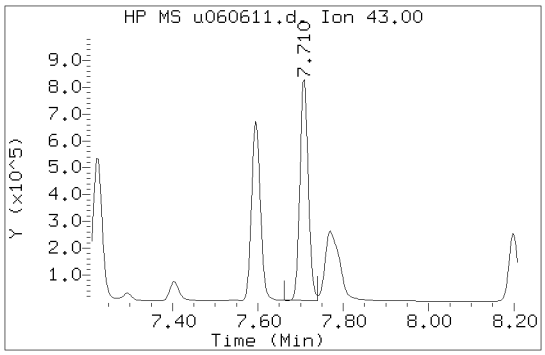

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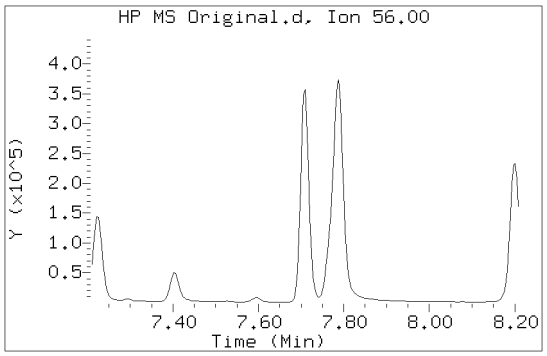

AFTER
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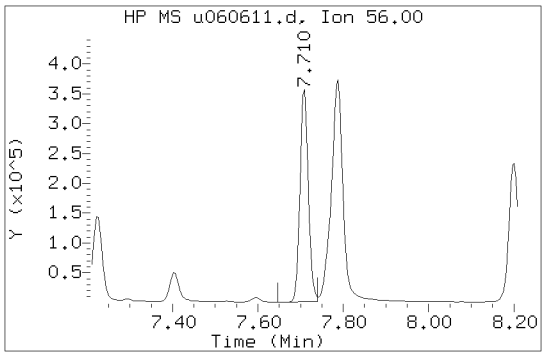

BEFORE
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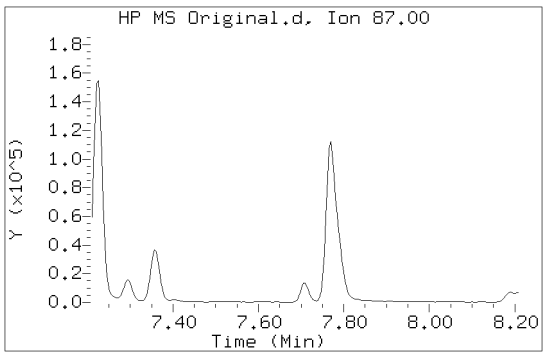

AFTER
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13:48
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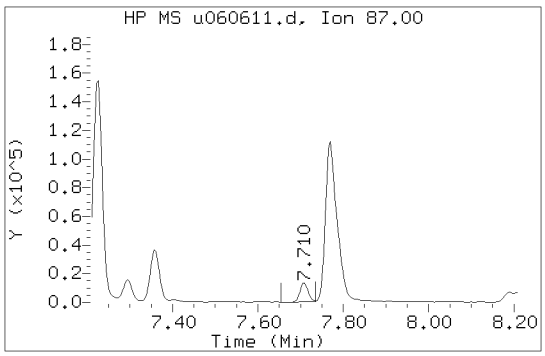

Acetaldehyde (75-07-0)

Reason Code:

BEFORE
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44
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HEIGHT
318277
08-Jun-2023
14:56
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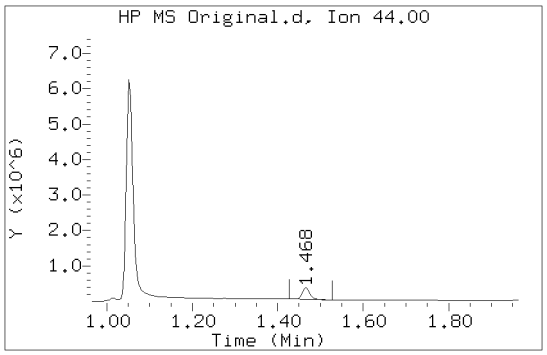
pham



AFTER
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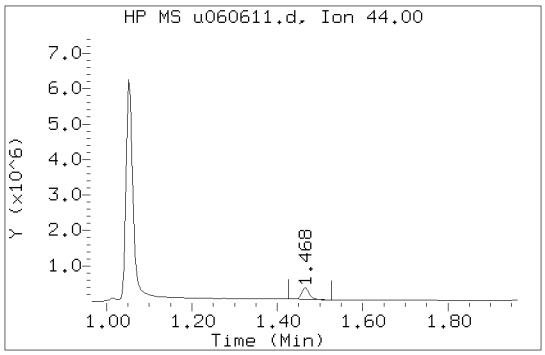

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Inj Date : 06-JUN-2023 14:57
InstruID : VOA9.i
LabSampID : VSTD100

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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08-Jun-2023
14:56
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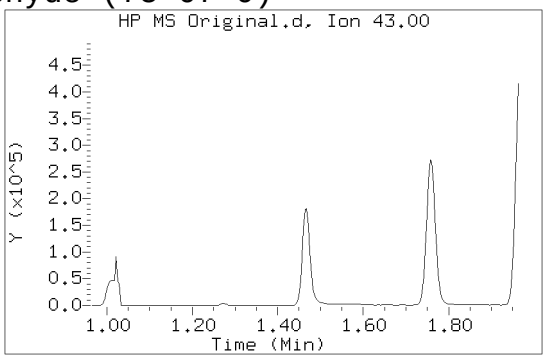

AFTER

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13:48
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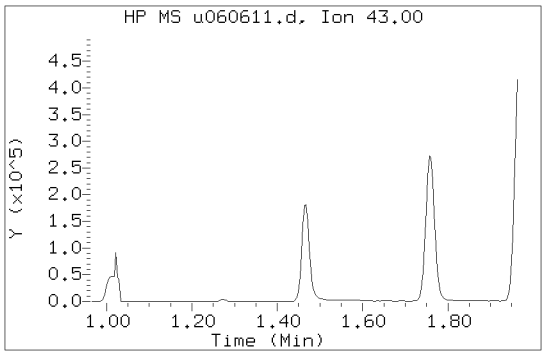

BEFORE

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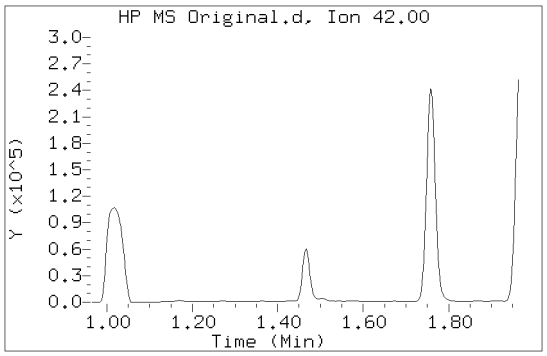

AFTER

MASS
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21-Jun-2023
13:48
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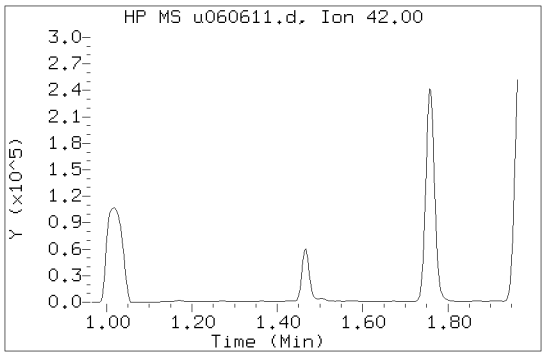


ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060612.D
Lab Smp Id: VSTD150 Client Smp ID: VSTD150
Inj Date : 06-JUN-2023 15:19
Operator : PC Inst ID: VOA9.i
Smp Info : VSTD150;VSTD150;1;9;
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
Meth Date : 21-Jun-2023 13:45 pcabasca Quant Type: ISTD
Cal Date : 06-JUN-2023 15:19 Cal File: U060612.D
Als bottle: 13 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14

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)	693393	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.242)	960667	150.000	149.79
3	Chloromethane	50	1.299	1.299	(0.270)	1383207	150.000	134.48
5	Vinyl Chloride	62	1.378	1.378	(0.286)	1135719	150.000	154.84
6	Bromomethane	94	1.614	1.614	(0.335)	572508	150.000	155.55
7	Chloroethane	64	1.700	1.700	(0.353)	710334	150.000	143.77
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	1306396	150.000	155.08
9	Acrolein	56	2.270	2.270	(0.471)	101869	300.000	276.78
10	Acetone	43	2.412	2.412	(0.501)	669020	300.000	291.26
11	1,1-Dichloroethene	96	2.337	2.337	(0.485)	792951	150.000	150.65
15	Iodomethane	142	2.472	2.472	(0.513)	1654094	300.000	314.13
16	Acrylonitrile	53	3.068	3.068	(0.637)	777948	300.000	302.53
17	Methylene Chloride	84	2.799	2.799	(0.581)	934598	150.000	149.80
18	Methyl tert-butyl ether	73	3.087	3.087	(0.641)	2427294	150.000	150.38
19	Carbon Disulfide	76	2.525	2.525	(0.524)	4369759	300.000	310.56
20	trans-1,2-Dichloroethene	96	3.065	3.065	(0.636)	854280	150.000	149.24
21	Vinyl Acetate	43	3.612	3.612	(0.750)	5494788	300.000	314.91
22	1,1-Dichloroethane	63	3.518	3.518	(0.730)	1535399	150.000	141.14
24	2-Butanone	43	4.272	4.272	(0.886)	886610	300.000	280.44
26	2,2-Dichloropropane	77	4.186	4.186	(0.869)	1080274	150.000	149.40
27	cis-1,2-Dichloroethene	96	4.201	4.201	(0.872)	1008606	150.000	147.29

28	Chloroform	83	4.575	4.575 (0.949)	1661391	150.000	146.74
29	Bromochloromethane	128	4.474	4.474 (0.928)	547129	150.000	142.83

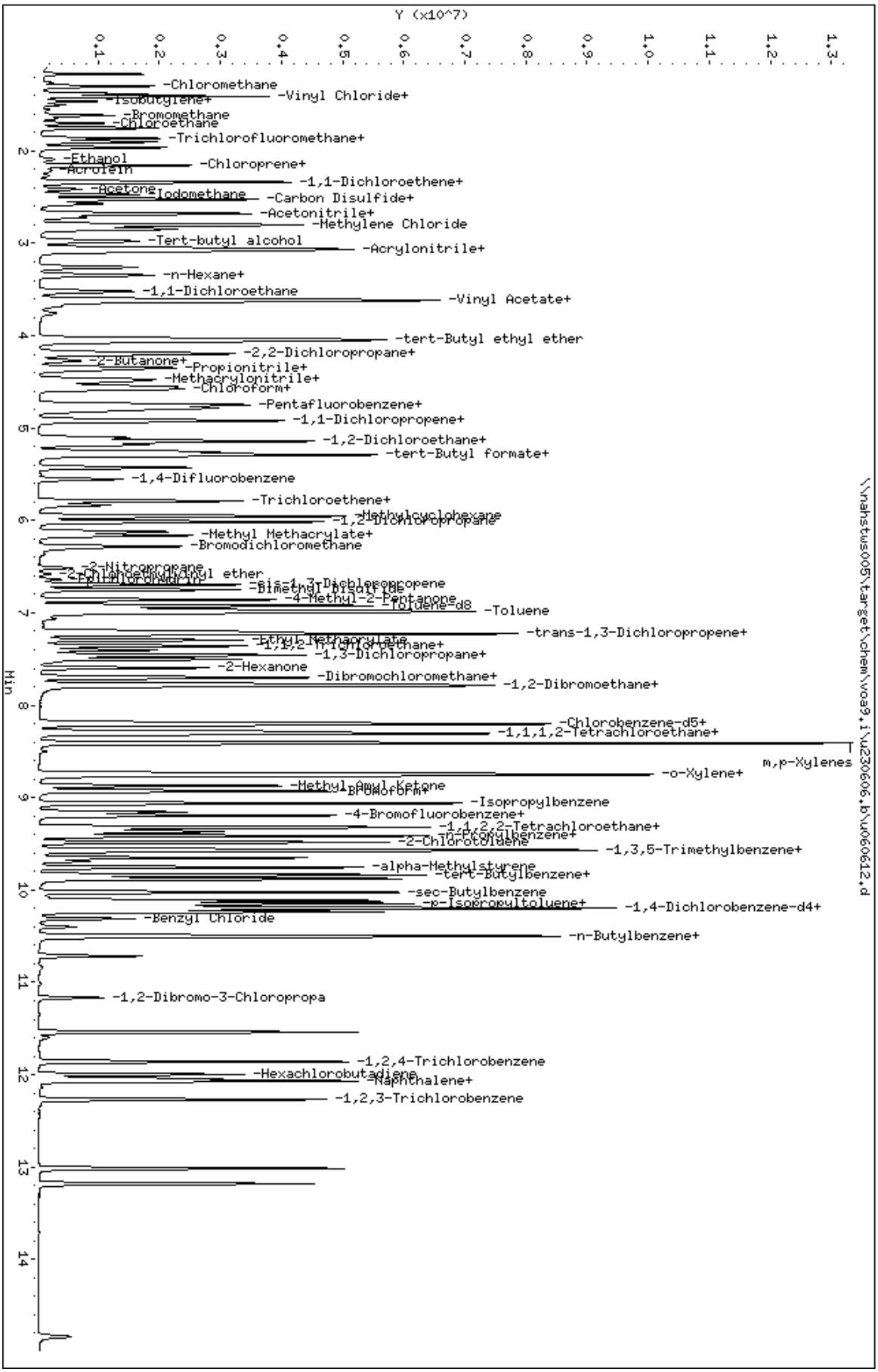
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
$	30 Dibromofluoromethane	113	4.752	4.752	(0.986)	869167	150.000	149.96
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	1344181	150.000	155.77
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	1205862	150.000	156.12
	33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	1309746	150.000	143.58
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	1159204	150.000	163.38
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	944002	150.000	151.26
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	1053901	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	3801057	150.000	149.67
	38 Trichloroethene	130	5.790	5.790	(1.043)	1087941	150.000	147.80
	39 Bromodichloromethane	83	6.281	6.281	(1.131)	1283901	150.000	162.07
	41 2-Chloroethylvinyl ether	63	6.581	6.581	(1.185)	81461	300.000	425.14(A)
	42 1,2-Dichloropropane	63	6.015	6.015	(1.083)	1011740	150.000	149.21
	44 Dibromomethane	93	6.124	6.124	(1.103)	644143	150.000	148.67
	45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	2275634	300.000	307.02
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	1649908	150.000	151.42
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	1017824	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	3265170	150.000	141.74
	50 Toluene	91	6.982	6.982	(0.853)	4084070	150.000	147.94
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.296)	1382903	150.000	150.98
	52 2-Hexanone	43	7.597	7.597	(0.928)	1507185	300.000	291.99
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	820894	150.000	142.91
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	1724053	150.000	146.90
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	1165162	150.000	170.96
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	979028	150.000	145.56
	57 1,2-Dibromoethane	107	7.788	7.788	(0.951)	1030570	150.000	145.44
	58 1-Chlorohexane	55	8.200	8.200	(1.476)	831688	150.000	153.68
	59 Chlorobenzene	112	8.212	8.212	(1.003)	2875380	150.000	145.94
	60 1,1,1,2-Tetrachloroethane	131	8.287	8.287	(1.012)	1071450	150.000	158.22
	61 Ethylbenzene	106	8.309	8.309	(1.015)	1466582	150.000	159.93
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	3636671	300.000	335.20
	63 o-Xylene	106	8.748	8.748	(1.069)	1775674	150.000	165.67
	64 Styrene	104	8.763	8.763	(1.071)	2956532	150.000	173.82
	66 Bromoform	173	8.920	8.920	(1.090)	819014	150.000	178.03
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	4235878	150.000	164.54
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	1374039	150.000	140.32
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	1355424	150.000	151.13
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	520569	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	1312413	150.000	152.35
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	4668789	150.000	170.98
	74 Bromobenzene	156	9.317	9.317	(0.916)	1305028	150.000	148.57
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	3068129	150.000	163.78
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	2928853	150.000	152.58
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	3299464	150.000	155.29
	78 tert-Butylbenzene	119	9.839	9.839	(0.967)	2957735	150.000	160.75
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	2991253	150.000	152.61
	81 sec-Butylbenzene	105	10.026	10.026	(0.986)	3927022	150.000	168.30
	82 p-Isopropyltoluene	119	10.150	10.150	(0.998)	3334448	150.000	170.58
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	2191876	150.000	146.92
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	2268941	150.000	142.64
	87 n-Butylbenzene	91	10.495	10.495	(1.032)	2750567	150.000	164.36
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	2171343	150.000	145.16
	89 1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	234556	150.000	164.15

90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	1581317	150.000	153.70
91 Hexachlorobutadiene	225	11.998	11.998 (1.179)	641183	150.000	154.32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	92 Naphthalene	128	12.069	12.069	(1.186)	3777446	150.000	158.06
	93 1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	1515436	150.000	150.67
M	94 1,2-Dichloroethylene (total)	96				1862886	300.000	296.53
M	95 Xylenes (total)	106				5412345	450.000	500.87
	135 1,4-Dioxane	88	6.172	6.172	(1.281)	279013	3000.00	2026.50
	141 Cyclohexane	56	4.785	4.785	(0.993)	1346053	150.000	148.66
	138 Freon TF	101	2.337	2.337	(0.485)	744713	150.000	159.91
	140 1,3-Butadiene	54	1.408	1.408	(0.292)	1026660	150.000	156.34
	147 Methylcyclohexane	55	5.951	5.951	(1.072)	2435816	150.000	166.61(A)
	146 Methyl Acetate	43	2.720	2.720	(0.564)	806323	150.000	138.10
	148 Tert-Butyl alcohol	59	2.975	2.975	(0.617)	1948328	3000.00	3051.23
	149 Isopropyl Alcohol	45	2.574	2.574	(0.534)	1284183	3000.00	2833.01
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	204272	150.000	174.30(M)
	12 Isobutyl Alcohol	43	5.291	5.291	(1.098)	2767410	3000.00	3071.79(M)
	13 Acetonitrile	39	2.675	2.675	(0.555)	1141243	1500.00	1520.22
	14 Allyl Chloride	41	2.679	2.679	(0.556)	2678647	150.000	148.79
	25 Methacrylonitrile	41	4.500	4.500	(0.934)	649391	150.000	158.51
	40 Methyl Methacrylate	41	6.161	6.161	(1.278)	969658	150.000	162.64
	4 Propionitrile	54	4.347	4.347	(0.902)	1447622	1500.00	1444.77
	136 n-Hexane	57	3.346	3.346	(0.694)	933406	150.000	149.31
	194 Acetaldehyde	44	1.460	1.460	(0.303)	604743	600.000	632.36(M)
	131 Methyl Acrylate	55	4.373	4.373	(0.907)	1119010	150.000	152.59(M)
	200 Dimethyl Disulfide	94	6.750	6.750	(0.825)	1542342	150.000	156.55
	23 Chloroprene	53	2.161	2.161	(0.449)	341381	150.000	154.36
	49 Ethyl Methacrylate	69	7.293	7.293	(1.313)	1503706	150.000	162.76
	166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	2909415	150.000	145.39
	167 Ethanol	45	2.090	2.090	(0.434)	261491	3000.00	3068.37
	164 Dicyclopentadiene	66	10.202	10.202	(1.003)	3912009	150.000	154.05
	145 alpha-Methylstyrene	118	9.756	9.756	(0.959)	1521945	150.000	148.37
	142 Tetrahydrofuran	42	4.549	4.549	(0.944)	364883	300.000	302.61
	156 Diisopropyl ether	45	3.627	3.627	(0.753)	2879455	150.000	148.92
	151 4-Methyl-2-pentanol	45	7.226	7.226	(1.301)	4710347	3000.00	3005.64
	150 Allyl alcohol	57	3.346	3.346	(0.694)	933406	3000.00	2986.18
	86 Benzyl Chloride	91	10.311	10.311	(1.260)	988530	150.000	154.64
	162 Butyl acrylate	55	8.733	8.733	(1.067)	1959643	150.000	162.76
	139 Diethyl ether	59	2.150	2.150	(0.446)	716609	150.000	152.95
	203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	905239	150.000	153.98
	134 Cyclohexanone	55	9.156	9.156	(0.900)	877279	3000.00	2718.28
	130 Ethyl Acetate	43	4.272	4.272	(0.886)	876170	150.000	141.35(M)
	189 n-Butyl acetate	43	7.709	7.709	(0.942)	1856486	150.000	160.19(M)
	182 Epichlorohydrin	57	6.633	6.633	(1.194)	78090	600.000	617.79
	132 n-Butanol	56	5.835	5.835	(1.211)	629851	3000.00	3191.24

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.



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Date : 06-JUN-2023 15:19
Client ID: VSTD150
Sample Info: VSTD150;VSTD150;1;9;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: PC
Column diameter: 0.18

Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060612.d
Inj Date : 06-JUN-2023 15:19
InstruID : VOA9.i
LabSampID : VSTD150

Isobutyl Alcohol (78-83-1)

Reason Code:

BEFORE

MASS
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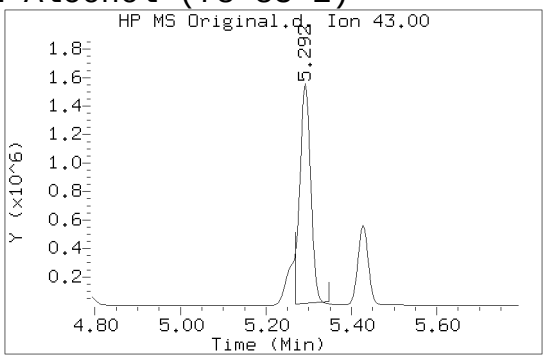
2767410
HEIGHT
1544511
08-Jun-2023
14:56
linh
pham



AFTER

MASS
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21-Jun-2023
13:48
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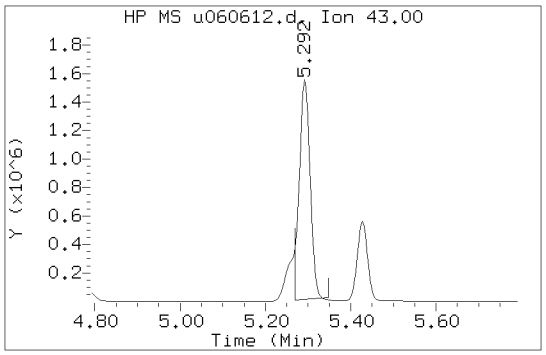

BEFORE

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08-Jun-2023
14:56
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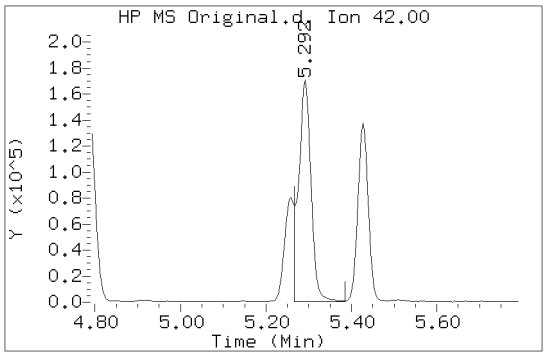

AFTER

MASS
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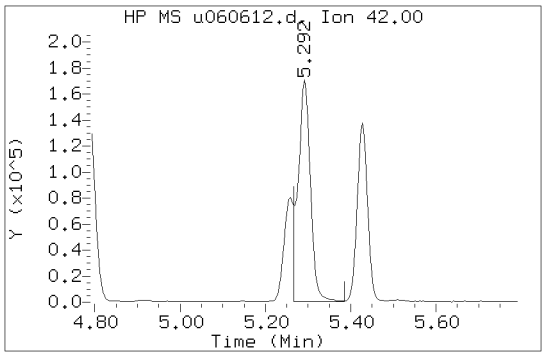

BEFORE

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08-Jun-2023
14:56
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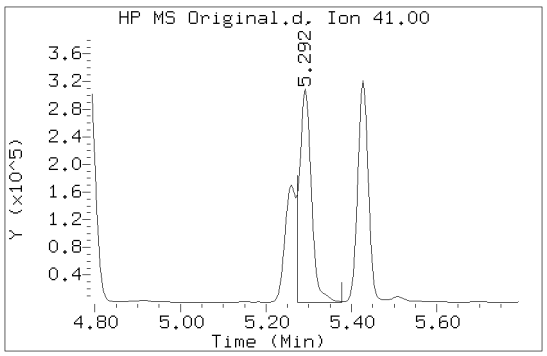
pham



AFTER

MASS
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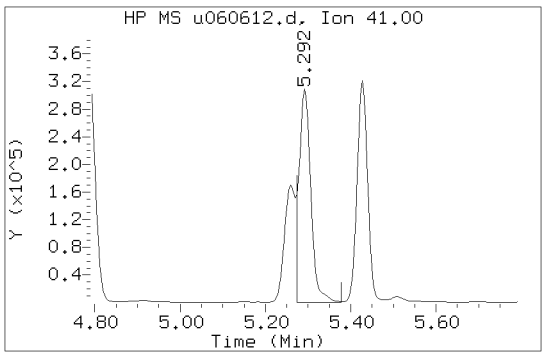

trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

BEFORE

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08-Jun-2023
14:56
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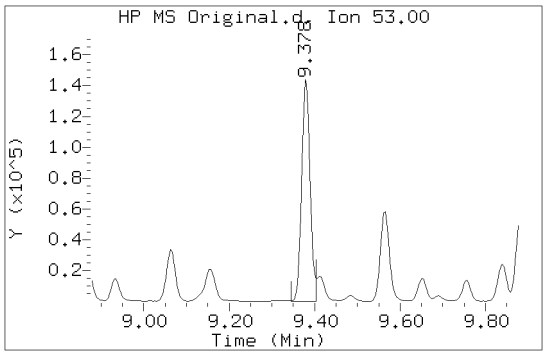

AFTER

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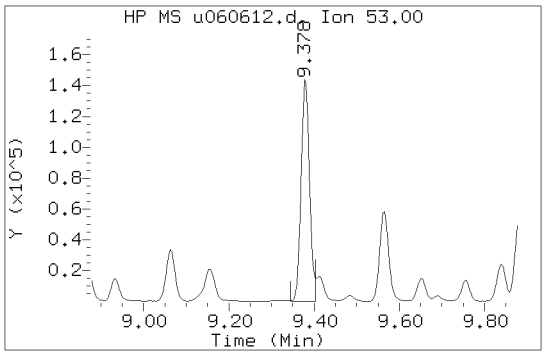

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Inj Date : 06-JUN-2023 15:19
InstruID : VOA9.i
LabSampID : VSTD150

trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

BEFORE

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HEIGHT
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08-Jun-2023
14:56
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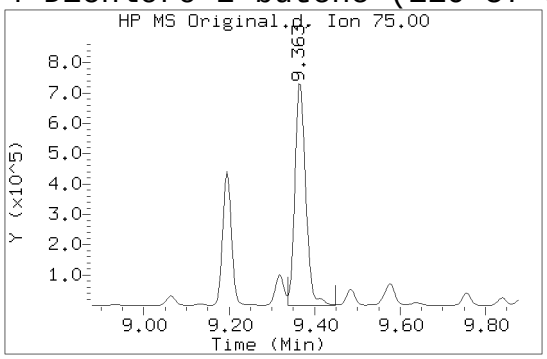

AFTER

MASS
75
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21-Jun-2023
13:48
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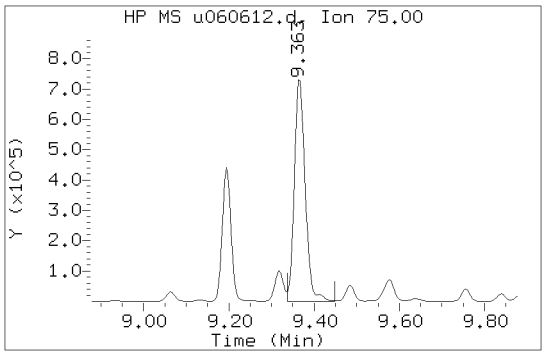
pha



Ethyl Acetate (141-78-6)

Reason Code:

BEFORE

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14:56
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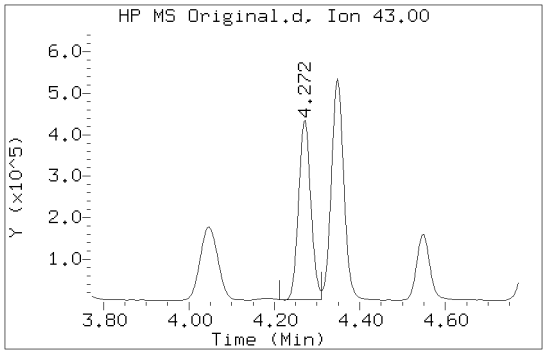

AFTER

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21-Jun-2023
13:48
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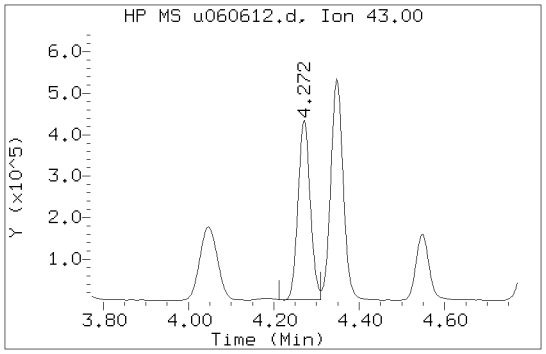

BEFORE

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08-Jun-2023
14:56
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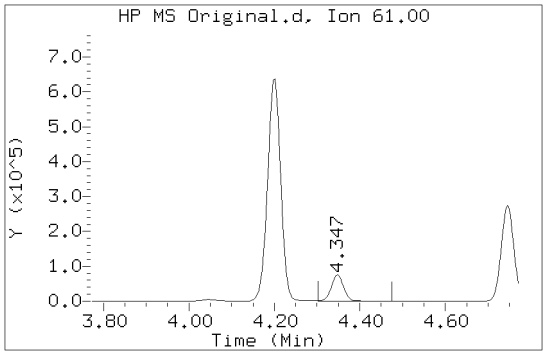

AFTER

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21-Jun-2023
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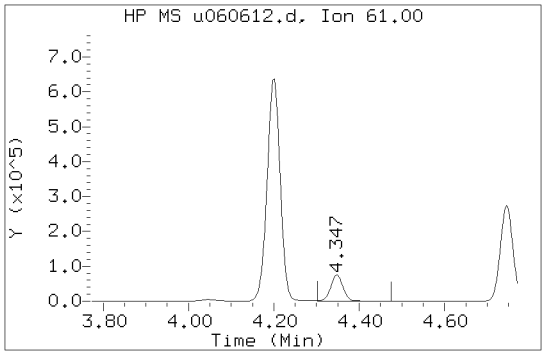

BEFORE

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08-Jun-2023
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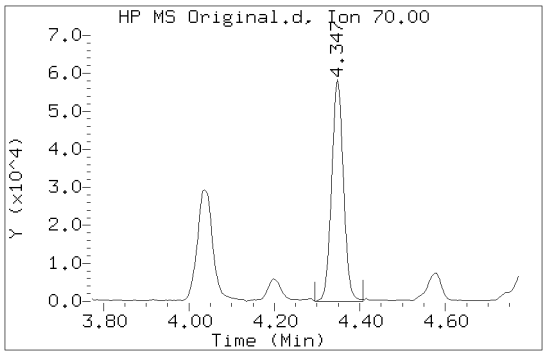

AFTER

MASS
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21-Jun-2023
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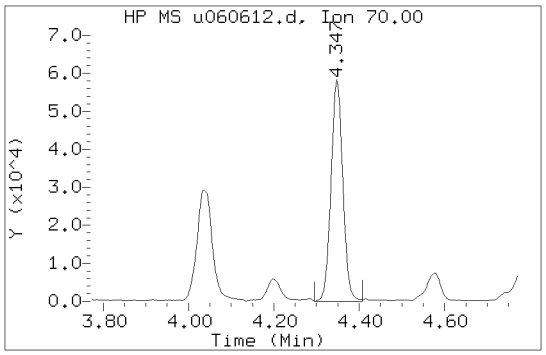

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Inj Date : 06-JUN-2023 15:19
InstruID : VOA9.i
LabSampID : VSTD150

Methyl Acrylate (96-33-3)

BEFORE
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AREA
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HEIGHT
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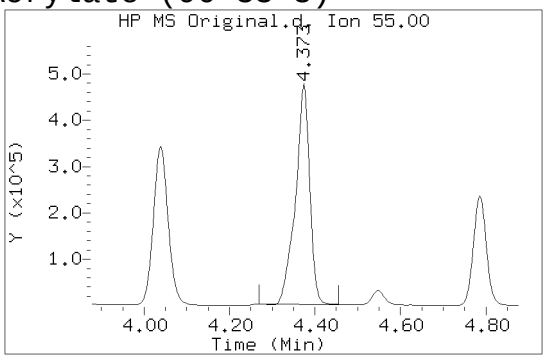
08-Jun-2023
14:56
linh
pham



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21-Jun-2023
13:48
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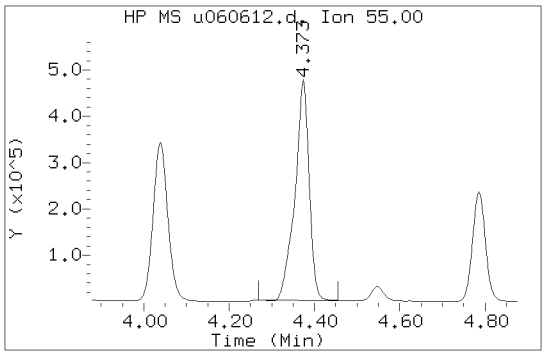
pha

Reason Code:



BEFORE
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14:56
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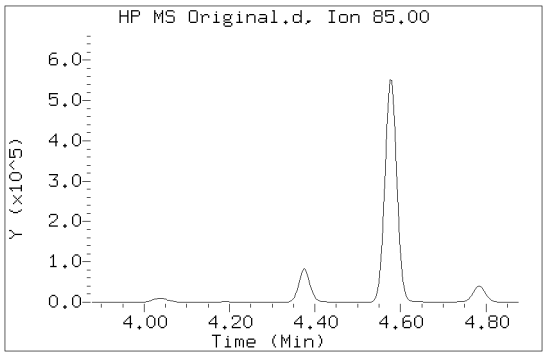

AFTER
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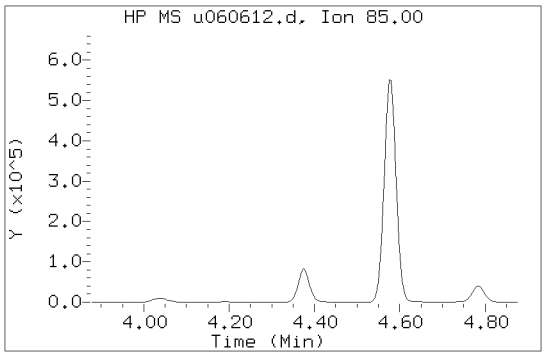

n-Butyl acetate (123-86-4)

BEFORE
MASS
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AREA
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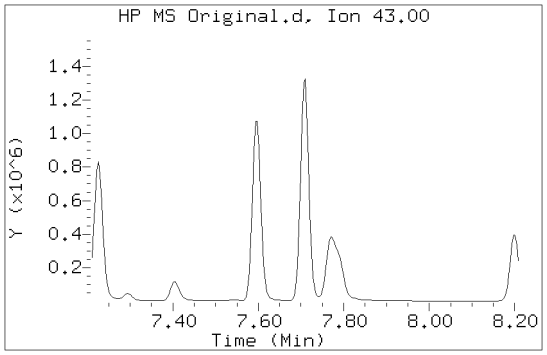
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER
MASS
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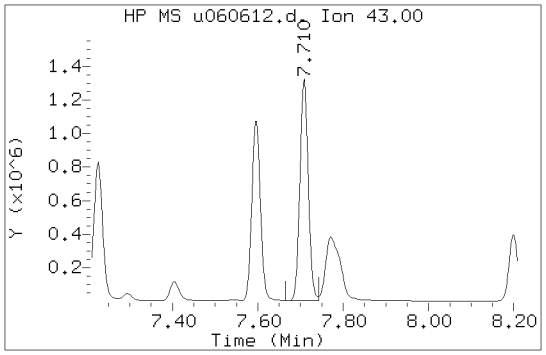
21-Jun-2023
13:48
linh
pha

Reason Code:



BEFORE
MASS
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08-Jun-2023
14:56
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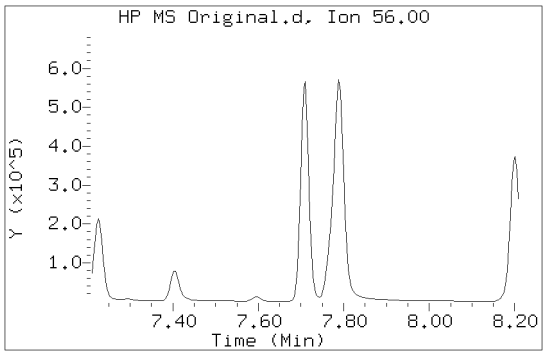

AFTER
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21-Jun-2023
13:48
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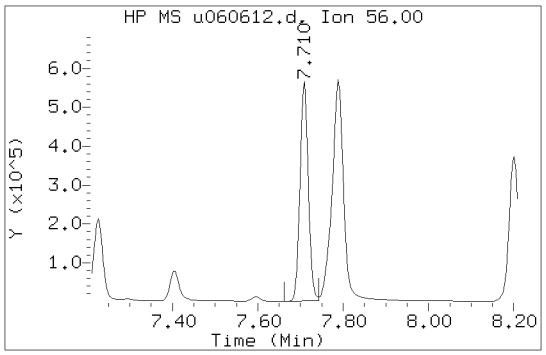

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Inj Date : 06-JUN-2023 15:19
InstruID : VOA9.i
LabSampID : VSTD150

n-Butyl acetate (123-86-4)

Reason Code:

BEFORE

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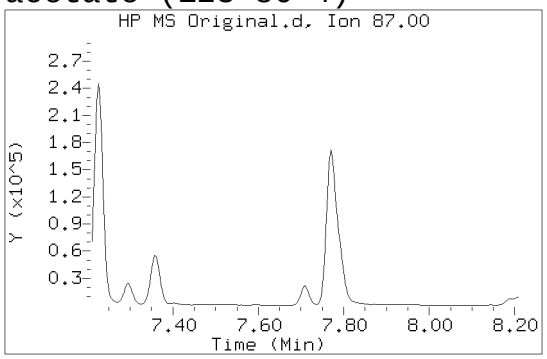
08-Jun-2023
14:56
linh
pham



AFTER

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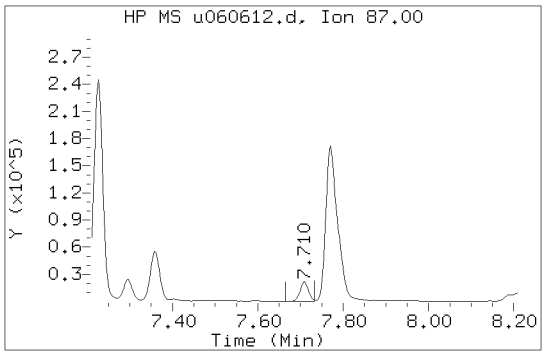

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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AREA
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HEIGHT
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08-Jun-2023
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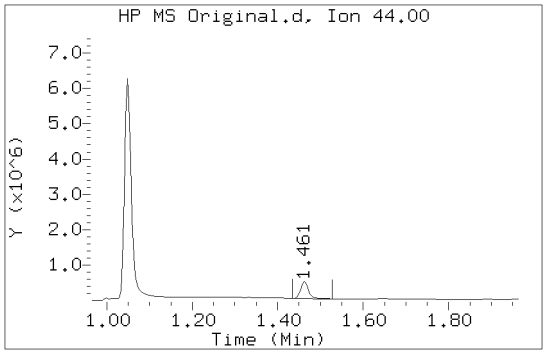
linh
pham



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21-Jun-2023
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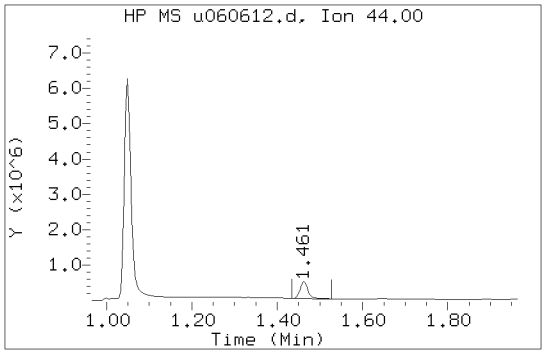

BEFORE

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AREA
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HEIGHT
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08-Jun-2023
14:56
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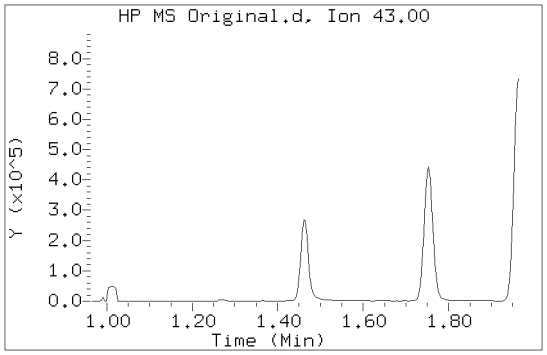
pham



AFTER

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AREA
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HEIGHT
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21-Jun-2023
13:48
linh
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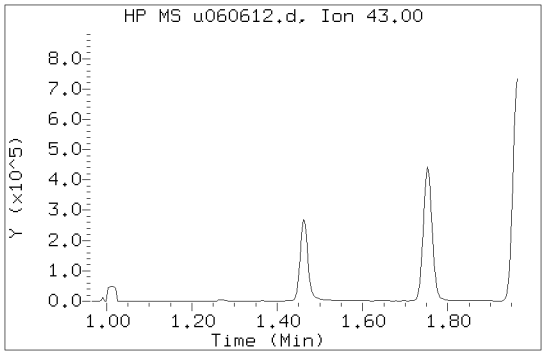

BEFORE

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AREA
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08-Jun-2023
14:56
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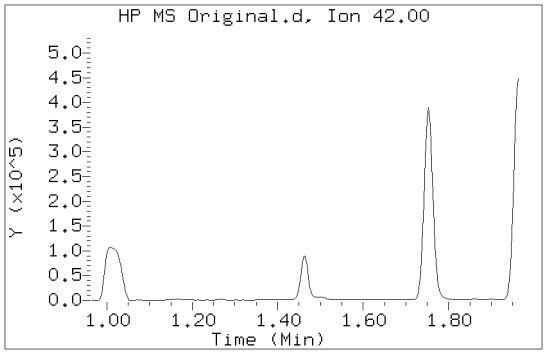

AFTER

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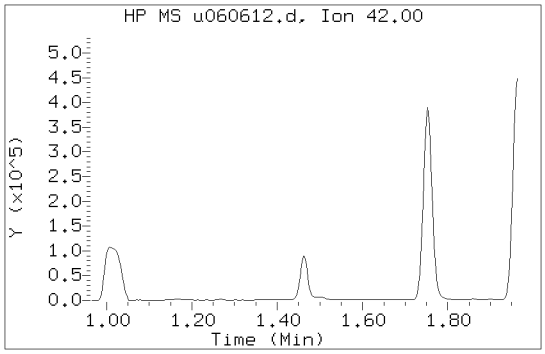
21-Jun-2023
13:48
linh
pha



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060613.D Page 1
Report Date: 21-Jun-2023 13:48

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060613.D
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Inj Date : 06-JUN-2023 15:41
Operator : PC Inst ID: VOA9.i
Smp Info : VSTD200;VSTD200;1;10;
Misc Info : V9;WATER;0;1;
Comment :
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Meth Date : 21-Jun-2023 13:45 pcabasca Quant Type: ISTD
Cal Date : 06-JUN-2023 15:41 Cal File: U060613.D
Als bottle: 14 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14

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)	719289	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.242)	1327832	200.000	199.55
3	Chloromethane	50	1.303	1.303	(0.270)	1811207	200.000	170.11
5	Vinyl Chloride	62	1.382	1.382	(0.287)	1577666	200.000	207.36(A)
6	Bromomethane	94	1.614	1.614	(0.335)	739966	200.000	194.26
7	Chloroethane	64	1.700	1.700	(0.353)	966868	200.000	188.65
8	Trichlorofluoromethane	101	1.903	1.903	(0.395)	1797881	200.000	205.74(A)
9	Acrolein	56	2.270	2.270	(0.471)	145745	400.000	381.74
10	Acetone	43	2.416	2.416	(0.501)	921553	400.000	388.62
11	1,1-Dichloroethene	96	2.341	2.341	(0.486)	1106671	200.000	202.69(A)
15	Iodomethane	142	2.472	2.472	(0.513)	2389174	400.000	393.17
16	Acrylonitrile	53	3.072	3.072	(0.638)	1044690	400.000	391.64
17	Methylene Chloride	84	2.799	2.799	(0.581)	1286266	200.000	199.09
18	Methyl tert-butyl ether	73	3.087	3.087	(0.641)	3267974	200.000	195.18
19	Carbon Disulfide	76	2.525	2.525	(0.524)	6034238	400.000	413.41(A)
20	trans-1,2-Dichloroethene	96	3.065	3.065	(0.636)	1205698	200.000	203.05(A)
21	Vinyl Acetate	43	3.616	3.616	(0.750)	7382189	400.000	407.85(A)
22	1,1-Dichloroethane	63	3.522	3.522	(0.731)	2108962	200.000	186.89
24	2-Butanone	43	4.272	4.272	(0.886)	1191616	400.000	363.35
26	2,2-Dichloropropane	77	4.189	4.189	(0.869)	1505657	200.000	200.60(A)
27	cis-1,2-Dichloroethene	96	4.204	4.204	(0.872)	1388156	200.000	195.41

28	Chloroform	83	4.579	4.579 (0.950)	2274175	200.000	193.63
29	Bromochloromethane	128	4.474	4.474 (0.928)	727780	200.000	183.15

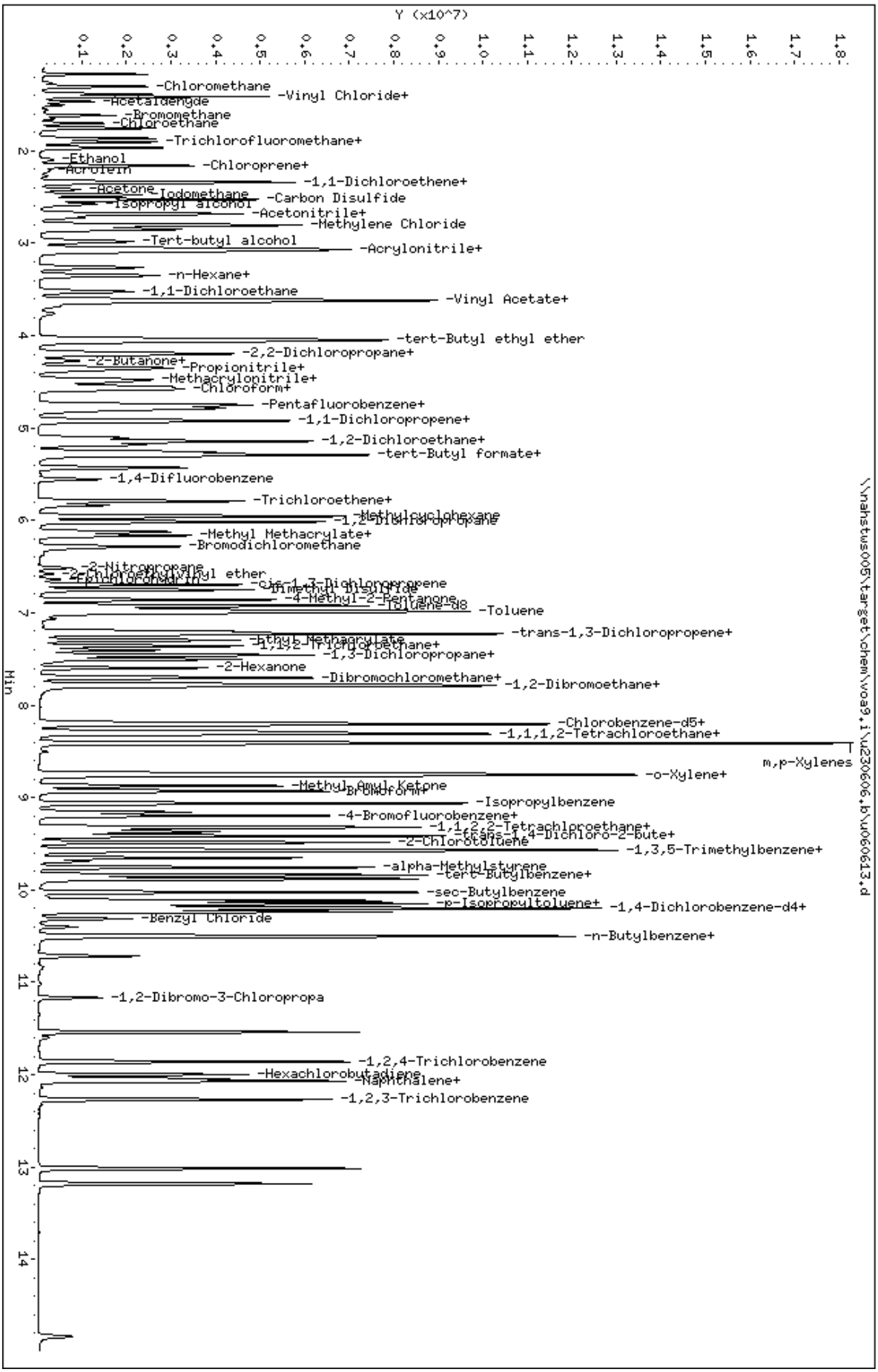
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
$	30 Dibromofluoromethane	113	4.755	4.755	(0.987)	1189943	200.000	198.02
	31 1,1,1-Trichloroethane	97	4.748	4.748	(0.985)	1886386	200.000	210.74(A)
	32 1,1-Dichloropropene	75	4.924	4.924	(0.886)	1700729	200.000	212.75(A)
	33 1,2-Dichloroethane	62	5.183	5.183	(0.933)	1771626	200.000	187.66
	34 Carbon Tetrachloride	117	4.917	4.917	(0.885)	1637950	200.000	223.06(A)
$	35 1,2-Dichloroethane-d4	65	5.104	5.104	(1.059)	1273587	200.000	196.93
*	36 1,4-Difluorobenzene	114	5.558	5.558	(1.000)	1090740	50.0000	
	37 Benzene	78	5.141	5.141	(0.925)	5184803	200.000	197.26
	38 Trichloroethene	130	5.790	5.790	(1.042)	1521502	200.000	199.72
	39 Bromodichloromethane	83	6.281	6.281	(1.130)	1771493	200.000	216.07(A)
	41 2-Chloroethylvinyl ether	63	6.581	6.581	(1.184)	132164	400.000	666.47(A)
	42 1,2-Dichloropropane	63	6.015	6.015	(1.082)	1391632	200.000	198.30
	44 Dibromomethane	93	6.124	6.124	(1.102)	883833	200.000	197.11
	45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	3098336	400.000	401.08(A)
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.204)	2272308	200.000	200.87(A)
*	47 Chlorobenzene-d5	117	8.189	8.189	(1.000)	1060812	50.0000	
$	48 Toluene-d8	98	6.926	6.926	(0.846)	4434953	200.000	184.71
	50 Toluene	91	6.982	6.982	(0.853)	5549820	200.000	192.89
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.295)	1913130	200.000	201.14(A)
	52 2-Hexanone	43	7.597	7.597	(0.928)	2078685	400.000	386.39
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.898)	1110628	200.000	185.51
	54 1,3-Dichloropropane	76	7.503	7.503	(0.916)	2327172	200.000	190.26
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	1606540	200.000	226.17(A)
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	1393824	200.000	198.83
	57 1,2-Dibromoethane	107	7.788	7.788	(0.951)	1398022	200.000	189.30
	58 1-Chlorohexane	55	8.200	8.200	(1.475)	1197273	200.000	213.76(A)
	59 Chlorobenzene	112	8.212	8.212	(1.003)	3927200	200.000	191.25
	60 1,1,1,2-Tetrachloroethane	131	8.287	8.287	(1.012)	1485967	200.000	210.54(A)
	61 Ethylbenzene	106	8.309	8.309	(1.015)	2034447	200.000	212.86(A)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	5028837	400.000	444.73(A)
	63 o-Xylene	106	8.748	8.748	(1.068)	2445057	200.000	218.88(A)
	64 Styrene	104	8.763	8.763	(1.070)	4009853	200.000	226.19(A)
	66 Bromoform	173	8.920	8.920	(1.089)	1122084	200.000	234.02(A)
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	5892020	200.000	219.60(A)
	68 1,1,2,2-Tetrachloroethane	83	9.332	9.332	(0.917)	1811573	200.000	181.35
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	1832443	200.000	196.31
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	531037	50.0000	
	71 1,2,3-Trichloropropane	75	9.366	9.366	(0.921)	1763864	200.000	200.72(A)
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	6509511	200.000	233.69(A)
	74 Bromobenzene	156	9.321	9.321	(0.916)	1773376	200.000	197.92
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	4383254	200.000	229.37(A)
	76 2-Chlorotoluene	91	9.486	9.486	(0.933)	3980132	200.000	203.26(A)
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	4532900	200.000	209.14(A)
	78 tert-Butylbenzene	119	9.839	9.839	(0.967)	4141351	200.000	220.65(A)
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	4284336	200.000	214.27(A)
	81 sec-Butylbenzene	105	10.026	10.026	(0.986)	5530698	200.000	232.36(A)
	82 p-Isopropyltoluene	119	10.150	10.150	(0.998)	4785361	200.000	239.98(A)
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	3007133	200.000	197.60
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	3094412	200.000	190.71
	87 n-Butylbenzene	91	10.495	10.495	(1.032)	3970657	200.000	232.59(A)
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	2966505	200.000	194.42
	89 1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	327879	200.000	224.94(A)

90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	2208303	200.000	210.41(A)
91 Hexachlorobutadiene	225	11.998	11.998 (1.179)	915431	200.000	215.98(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	92 Naphthalene	128	12.069	12.069	(1.186)	5090967	200.000	208.82(A)
	93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	2101950	200.000	204.86(A)
M	94 1,2-Dichloroethylene (total)	96				2593854	400.000	398.47
M	95 Xylenes (total)	106				7473894	600.000	663.61
	135 1,4-Dioxane	88	6.172	6.172	(1.281)	359619	4000.00	2517.91
	141 Cyclohexane	56	4.785	4.785	(0.993)	1948136	200.000	200.21(A)
	138 Freon TF	101	2.341	2.341	(0.486)	1062416	200.000	219.92(A)
	140 1,3-Butadiene	54	1.412	1.412	(0.293)	1426460	200.000	209.40(A)
	147 Methylcyclohexane	55	5.951	5.951	(1.071)	3311608	200.000	218.86(A)
	146 Methyl Acetate	43	2.720	2.720	(0.564)	1087855	200.000	179.61
	148 Tert-Butyl alcohol	59	2.978	2.978	(0.618)	2615413	4000.00	3949.93
	149 Isopropyl Alcohol	45	2.577	2.577	(0.535)	1712648	4000.00	3642.22
	72 trans-1,4-Dichloro-2-butene	53	9.381	9.381	(1.146)	280535	200.000	229.67(A)
	12 Isobutyl Alcohol	43	5.291	5.291	(1.098)	3974379	4000.00	4252.69(AM)
	13 Acetonitrile	39	2.679	2.679	(0.556)	1502696	2000.00	1929.63
	14 Allyl Chloride	41	2.679	2.679	(0.556)	3531503	200.000	189.10
	25 Methacrylonitrile	41	4.500	4.500	(0.934)	862110	200.000	202.86(A)
	40 Methyl Methacrylate	41	6.161	6.161	(1.278)	1311723	200.000	212.09(A)
	4 Propionitrile	54	4.350	4.350	(0.903)	1943419	2000.00	1869.76
	136 n-Hexane	57	3.350	3.350	(0.695)	1358253	200.000	199.96
	194 Acetaldehyde	44	1.464	1.464	(0.304)	813402	800.000	819.92(AM)
	131 Methyl Acrylate	55	4.377	4.377	(0.908)	1518708	200.000	199.64(M)
	200 Dimethyl Disulfide	94	6.750	6.750	(0.824)	2303909	200.000	196.98
	23 Chloroprene	53	2.165	2.165	(0.449)	488469	200.000	212.92(A)
	49 Ethyl Methacrylate	69	7.297	7.297	(1.313)	2085234	200.000	218.09(A)
	166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	4057323	200.000	198.76
	167 Ethanol	45	2.098	2.098	(0.435)	342926	4000.00	3885.10
	164 Dicyclopentadiene	66	10.202	10.202	(1.003)	5181324	200.000	200.01(A)
	145 alpha-Methylstyrene	118	9.756	9.756	(0.959)	2162870	200.000	205.31(A)
	142 Tetrahydrofuran	42	4.549	4.549	(0.944)	488623	400.000	391.34
	156 Diisopropyl ether	45	3.631	3.631	(0.753)	3891038	200.000	194.00
	151 4-Methyl-2-pentanol	45	7.226	7.226	(1.300)	6448455	4000.00	3975.75
	150 Allyl alcohol	57	3.350	3.350	(0.695)	1358253	4000.00	3999.38
	86 Benzyl Chloride	91	10.311	10.311	(1.259)	1346925	200.000	201.11(A)
	162 Butyl acrylate	55	8.733	8.733	(1.066)	2685275	200.000	213.99(A)
	139 Diethyl ether	59	2.154	2.154	(0.447)	970215	200.000	199.62
	203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	1300346	200.000	198.09
	134 Cyclohexanone	55	9.156	9.156	(0.900)	1223605	4000.00	3716.65
	130 Ethyl Acetate	43	4.272	4.272	(0.886)	1152217	200.000	179.20(M)
	189 n-Butyl acetate	43	7.709	7.709	(0.941)	2542322	200.000	210.47(AM)
	182 Epichlorohydrin	57	6.633	6.633	(1.194)	120896	800.000	793.08
	132 n-Butanol	56	5.835	5.835	(1.211)	859488	4000.00	4197.96(A)

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.



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Sample Info: VSTD200;VSTD200;1;10;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: PC
Column diameter: 0.18

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Inj Date : 06-JUN-2023 15:41
InstruID : VOA9.i
LabSampID : VSTD200

Isobutyl Alcohol (78-83-1)

Reason Code:

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HEIGHT
2109402
08-Jun-2023
14:56
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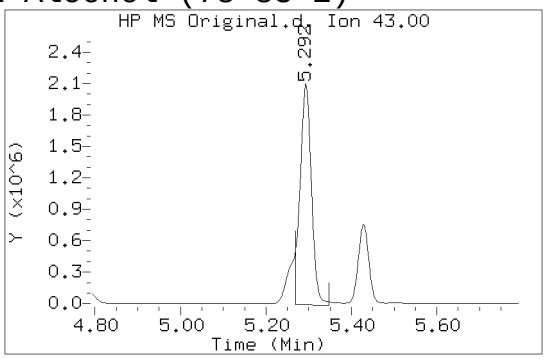

AFTER

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21-Jun-2023
13:48
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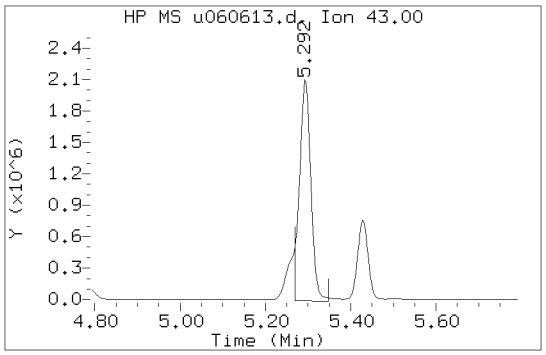

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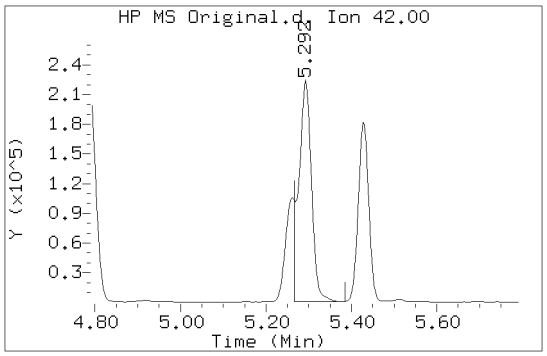

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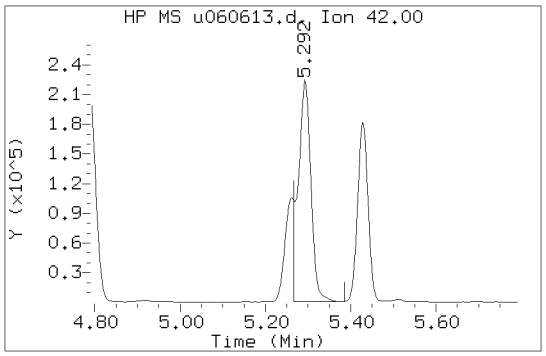

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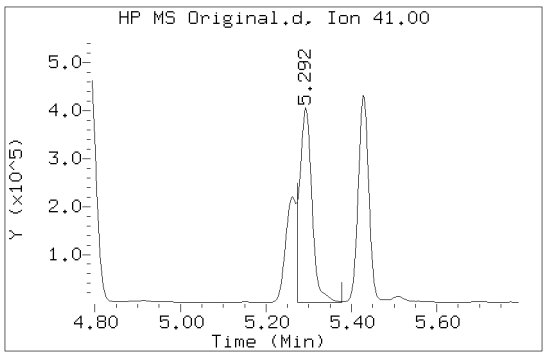

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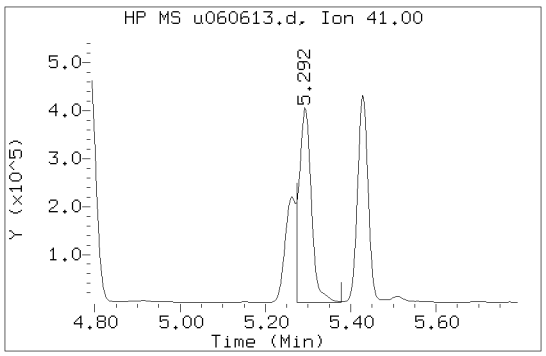

Ethyl Acetate (141-78-6)

Reason Code:

BEFORE

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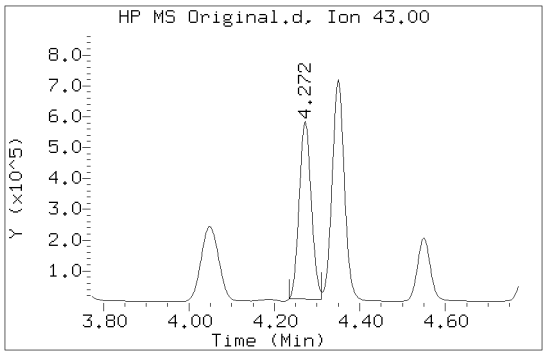

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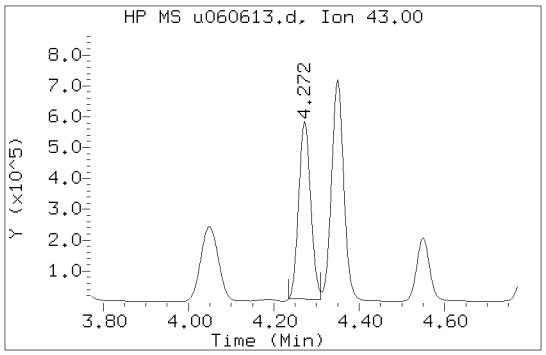

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Inj Date : 06-JUN-2023 15:41
InstruID : VOA9.i
LabSampID : VSTD200

Ethyl Acetate (141-78-6)

Reason Code:

BEFORE

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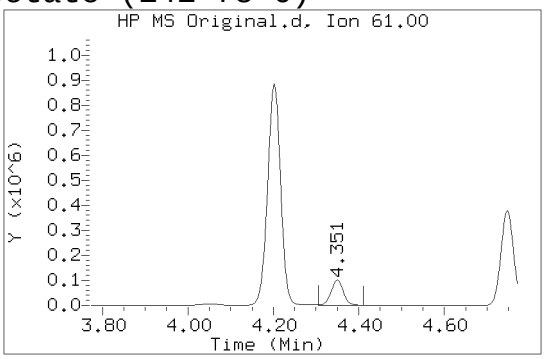

AFTER

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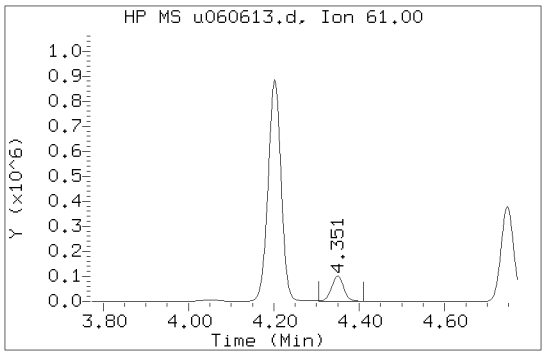

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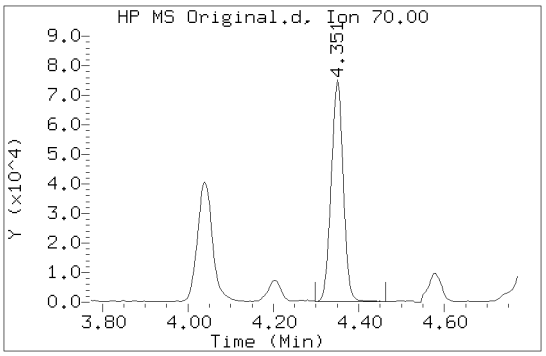

AFTER

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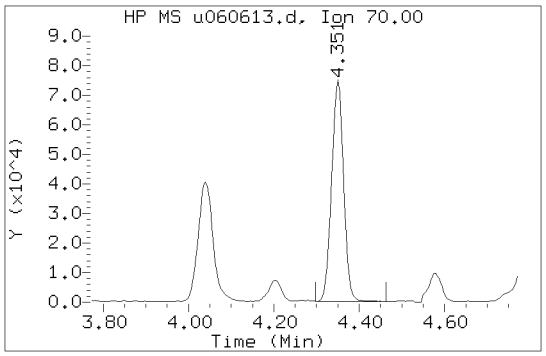

Methyl Acrylate (96-33-3)

Reason Code:

BEFORE

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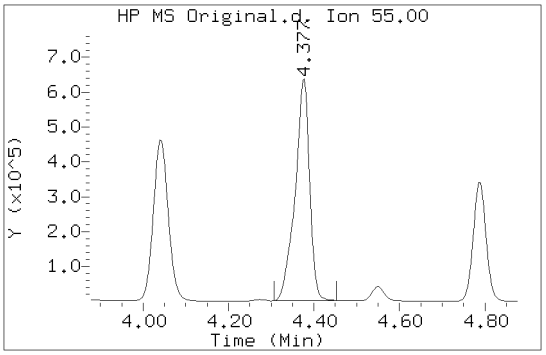

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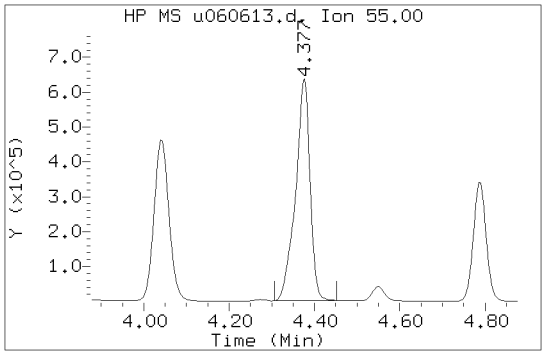

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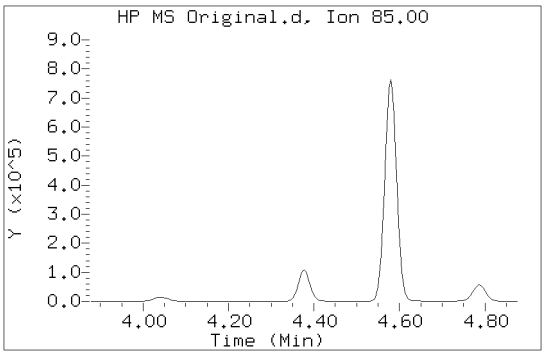

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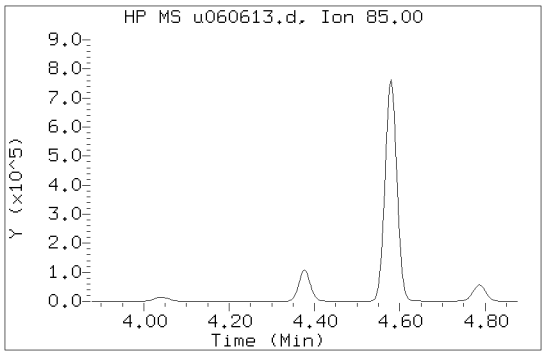

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LabSampID : VSTD200

n-Butyl acetate (123-86-4)

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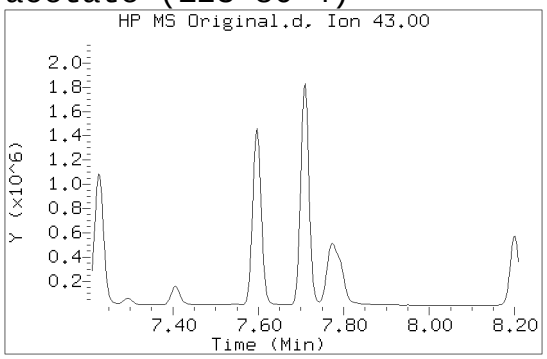

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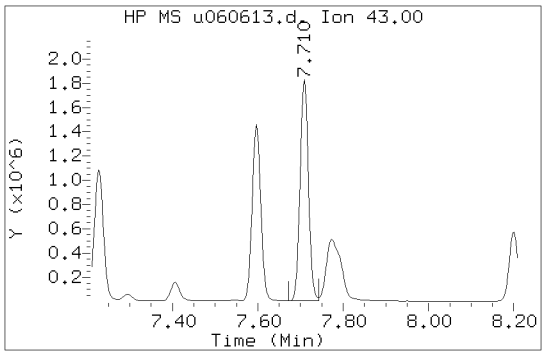

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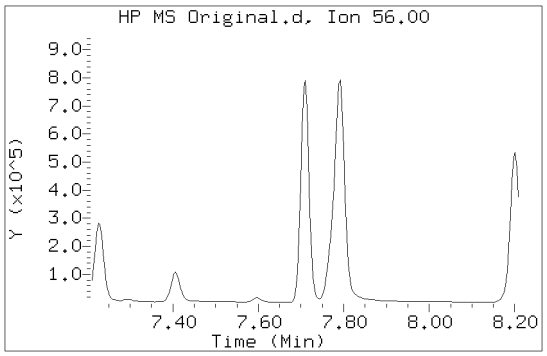

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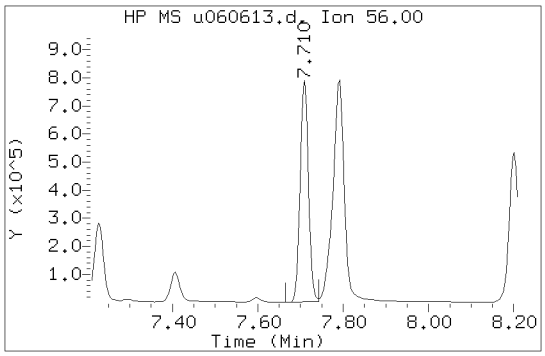

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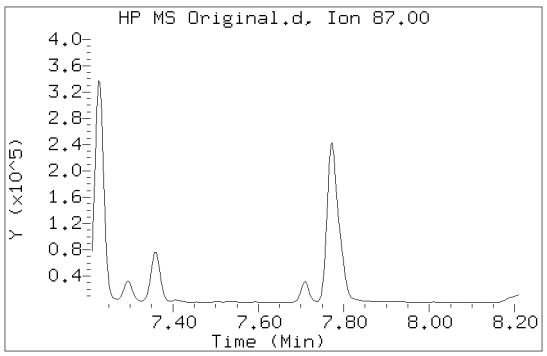

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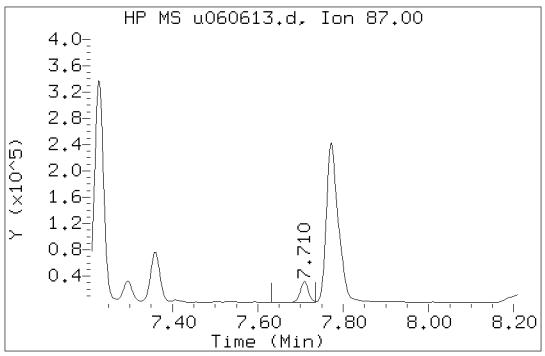

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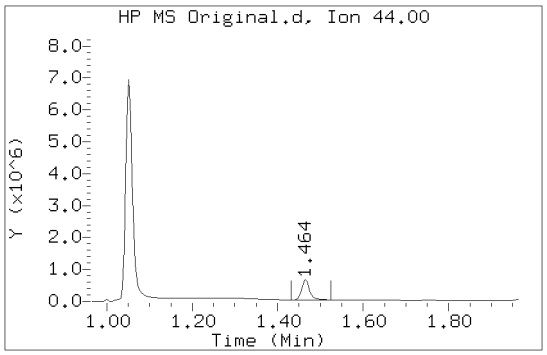

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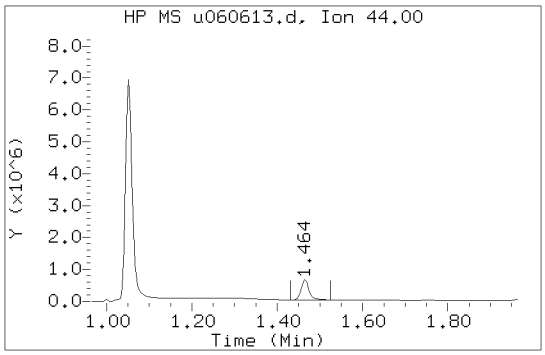

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LabSampID : VSTD200

Acetaldehyde (75-07-0)

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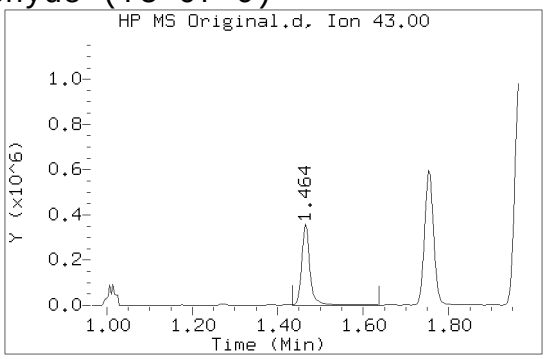

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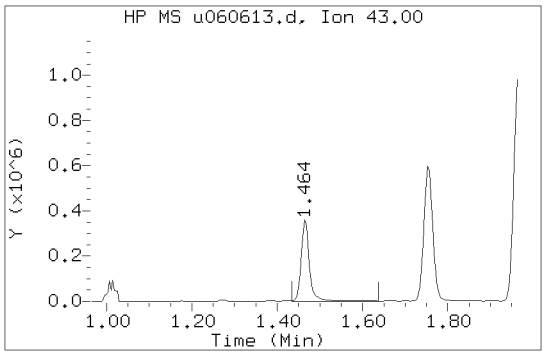

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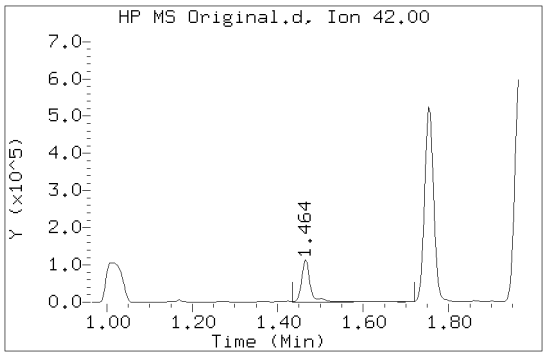

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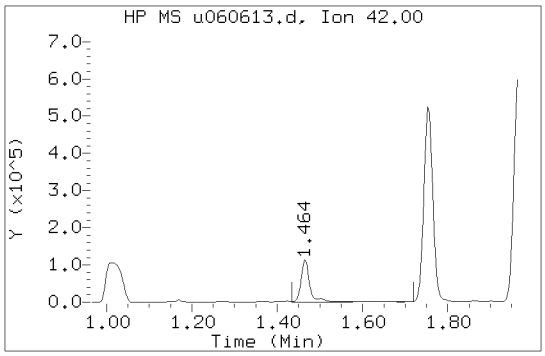

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Report Date: 21-Jun-2023 13:48

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060616.D
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Smp Info : CCV;CCV;2;;;ICV
Misc Info : V9;WATER;0;1;
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Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 17 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14

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)	780826	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.168	(0.241)	313326	43.4411	43.44
3 Chloromethane	50	1.295	1.303	(0.269)	478723	40.3986	40.39
5 Vinyl Chloride	62	1.374	1.382	(0.285)	368340	44.5978	44.59
6 Bromomethane	94	1.618	1.614	(0.336)	232986	55.0399	55.03
7 Chloroethane	64	1.696	1.700	(0.352)	239922	43.1235	43.12
8 Trichlorofluoromethane	101	1.895	1.903	(0.394)	416947	43.9550	43.95
9 Acrolein	56	2.263	2.270	(0.470)	36231	87.4197	87.41
10 Acetone	43	2.409	2.416	(0.500)	256579	95.4315	95.43
11 1,1-Dichloroethene	96	2.334	2.341	(0.485)	257583	43.4598	43.45
15 Iodomethane	142	2.469	2.472	(0.513)	390544	85.8965	85.89
16 Acrylonitrile	53	3.065	3.072	(0.636)	264231	91.2502	91.25
17 Methylene Chloride	84	2.795	2.799	(0.580)	325441	45.6146	45.61
18 Methyl tert-butyl ether	73	3.080	3.087	(0.640)	820662	45.1527	45.15
19 Carbon Disulfide	76	2.521	2.525	(0.524)	1475776	93.1400	93.13
20 trans-1,2-Dichloroethene	96	3.057	3.065	(0.635)	292795	45.4251	45.42
21 Vinyl Acetate	43	3.605	3.616	(0.749)	1831639	93.2206	93.22
22 1,1-Dichloroethane	63	3.515	3.522	(0.730)	503967	41.1420	41.14
24 2-Butanone	43	4.264	4.272	(0.886)	310116	87.1102	87.11
26 2,2-Dichloropropane	77	4.182	4.189	(0.868)	371756	45.9347	45.93
27 cis-1,2-Dichloroethene	96	4.197	4.204	(0.872)	341415	44.2752	44.27

28	Chloroform	83	4.572	4.579 (0.949)	560655	43.9760	43.97
29	Bromochloromethane	128	4.470	4.474 (0.928)	193817	44.9336	44.93

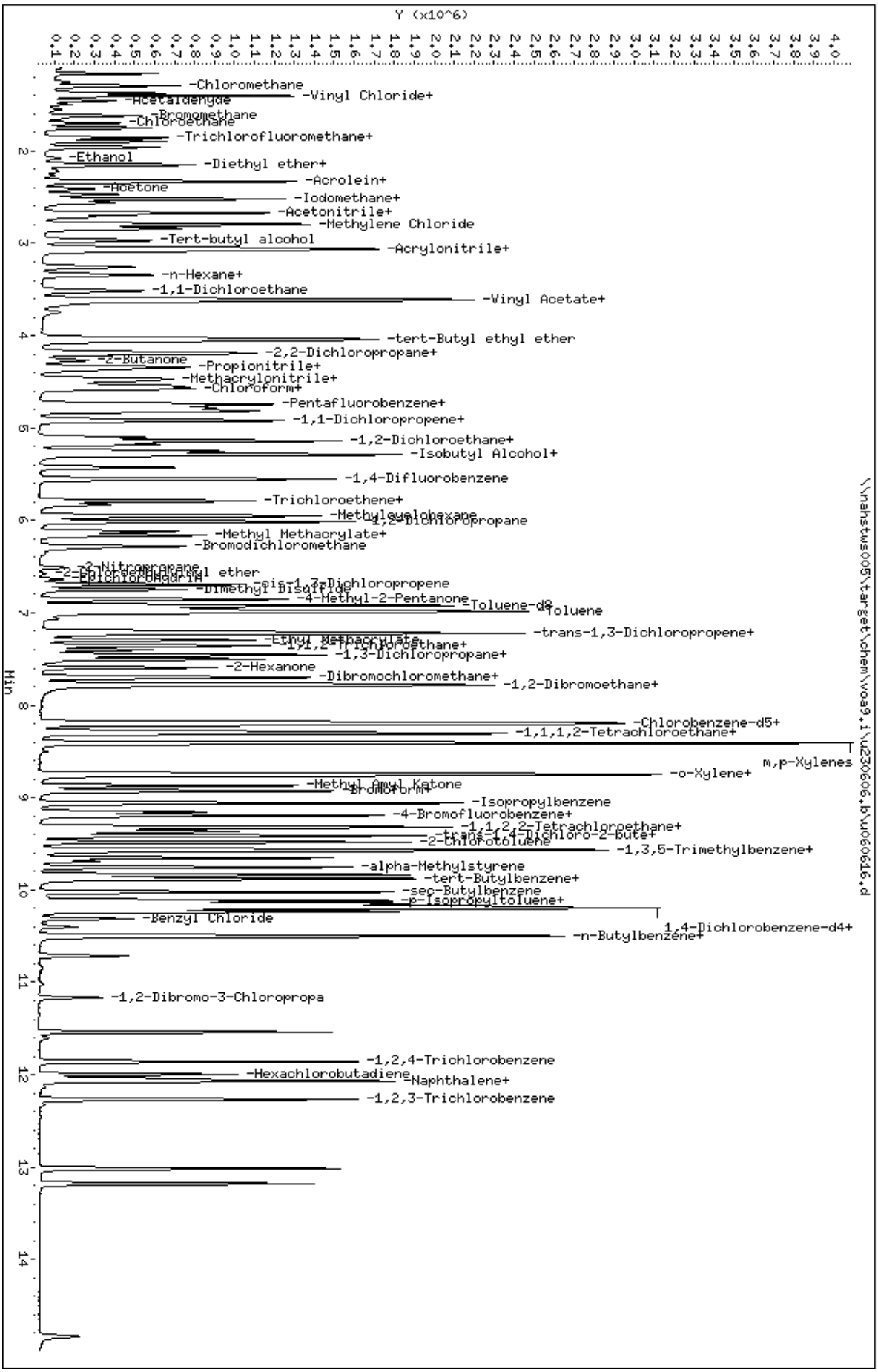
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
$	30 Dibromofluoromethane	113	4.748	4.755	(0.986)	318316	48.5594	48.55
	31 1,1,1-Trichloroethane	97	4.740	4.748	(0.984)	428686	44.1171	44.11
	32 1,1-Dichloropropene	75	4.920	4.924	(0.886)	386704	45.6635	45.66
	33 1,2-Dichloroethane	62	5.175	5.183	(0.932)	441937	44.1878	44.18
	34 Carbon Tetrachloride	117	4.909	4.917	(0.884)	345264	44.3847	44.38
$	35 1,2-Dichloroethane-d4	65	5.100	5.104	(1.059)	338506	47.7012	47.70
*	36 1,4-Difluorobenzene	114	5.554	5.558	(1.000)	1155525	50.0000	
	37 Benzene	78	5.138	5.141	(0.925)	1289605	46.3151	46.31
	38 Trichloroethene	130	5.790	5.790	(1.043)	360272	44.6411	44.64
	39 Bromodichloromethane	83	6.281	6.281	(1.131)	414478	47.7201	47.72
	41 2-Chloroethylvinyl ether	63	6.577	6.581	(1.184)	17278	82.2441	82.24(M)
	42 1,2-Dichloropropane	63	6.011	6.015	(1.082)	336299	45.2354	45.23
	44 Dibromomethane	93	6.120	6.124	(1.102)	214846	45.2290	45.22
	45 4-Methyl-2-Pentanone	43	6.855	6.858	(0.837)	752796	97.7283	97.72
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	520852	44.9600	44.95
*	47 Chlorobenzene-d5	117	8.185	8.189	(1.000)	1057791	50.0000	
$	48 Toluene-d8	98	6.922	6.926	(0.846)	1235345	51.5999	51.59
	50 Toluene	91	6.982	6.982	(0.853)	1380191	48.1072	48.10
	51 trans-1,3-Dichloropropene	75	7.200	7.199	(1.296)	429650	44.2325	44.23
	52 2-Hexanone	43	7.593	7.597	(0.928)	496806	92.6111	92.61
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	272556	45.6579	45.65
	54 1,3-Dichloropropane	76	7.499	7.503	(0.916)	578247	47.4115	47.41
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	366836	51.7915	51.79
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	318249	45.5291	45.52
	57 1,2-Dibromoethane	107	7.784	7.788	(0.951)	335864	45.6094	45.60
	58 1-Chlorohexane	55	8.197	8.200	(1.476)	242405	40.8537	40.85
	59 Chlorobenzene	112	8.208	8.212	(1.003)	941715	45.9914	45.99
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.287	(1.012)	345385	49.0774	49.07
	61 Ethylbenzene	106	8.305	8.309	(1.015)	460758	48.3475	48.34
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	1140862	101.183	101.18
	63 o-Xylene	106	8.748	8.748	(1.069)	558477	50.1380	50.13
	64 Styrene	104	8.763	8.763	(1.071)	935490	52.9214	52.92
	66 Bromoform	173	8.920	8.920	(1.090)	243942	51.0235	51.02
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	1308769	48.9183	48.91
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.332	(0.917)	454457	44.1598	44.15
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	483743	51.3065	51.30
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	547105	50.0000	
	71 1,2,3-Trichloropropane	75	9.363	9.366	(0.920)	415776	45.9243	45.92
	73 n-Propylbenzene	91	9.411	9.415	(0.925)	1420825	49.5106	49.51
	74 Bromobenzene	156	9.318	9.321	(0.916)	421969	45.7115	45.71
	75 1,3,5-Trimethylbenzene	105	9.561	9.565	(0.940)	949218	48.2136	48.21
	76 2-Chlorotoluene	91	9.482	9.486	(0.932)	943175	46.7536	46.75
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	1080779	48.4010	48.40
	78 tert-Butylbenzene	119	9.839	9.839	(0.967)	902133	46.6540	46.65
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	984625	47.7979	47.79
	81 sec-Butylbenzene	105	10.022	10.026	(0.985)	1146037	46.7345	46.73
	82 p-Isopropyltoluene	119	10.146	10.150	(0.997)	996804	48.5205	48.52
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	724727	46.2241	46.22
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	744273	44.5230	44.52
	87 n-Butylbenzene	91	10.491	10.495	(1.031)	805977	45.8271	45.82
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	711620	45.2687	45.26
	89 1,2-Dibromo-3-Chloropropane	155	11.166	11.169	(1.098)	71438	47.5707	47.57

90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	514361	47.5706	47.57
91 Hexachlorobutadiene	225	11.998	11.998 (1.179)	185622	42.5095	42.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	92 Naphthalene	128	12.065	12.069	(1.186)	1281110	51.0072	51.00
	93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	500164	47.3173	47.31
M	94 1,2-Dichloroethylene (total)	96				634210	89.7003	89.70
M	95 Xylenes (total)	106				1699339	151.321	151.32
	135 1,4-Dioxane	88	6.169	6.172	(1.281)	94832	611.650	611.64(R)
	141 Cyclohexane	56	4.782	4.785	(0.993)	401902	42.0727	42.07
	138 Freon TF	101	2.334	2.341	(0.485)	222912	42.5073	42.50
	140 1,3-Butadiene	54	1.404	1.412	(0.292)	342878	46.3679	46.36
	147 Methylcyclohexane	55	5.947	5.951	(1.071)	742238	46.3048	46.30
	146 Methyl Acetate	43	2.712	2.720	(0.563)	267638	40.7078	40.70
	148 Tert-Butyl alcohol	59	2.967	2.978	(0.616)	653389	905.196	905.19
	149 Isopropyl Alcohol	45	2.562	2.577	(0.532)	432312	846.925	846.92
	72 trans-1,4-Dichloro-2-butene	53	9.378	9.381	(1.146)	66066	54.2434	54.24
	12 Isobutyl Alcohol	43	5.288	5.291	(1.098)	1078739	1063.31	1063.31
	13 Acetonitrile	39	2.671	2.679	(0.555)	369725	437.354	437.35
	14 Allyl Chloride	41	2.671	2.679	(0.555)	881221	43.4696	43.46
	25 Methacrylonitrile	41	4.497	4.500	(0.934)	220001	47.6887	47.68
	40 Methyl Methacrylate	41	6.157	6.161	(1.279)	319473	47.5853	47.58
	4 Propionitrile	54	4.339	4.350	(0.901)	504761	447.359	447.35
	136 n-Hexane	57	3.342	3.350	(0.694)	279959	43.1157	43.11
	194 Acetaldehyde	44	1.457	1.464	(0.303)	213458	198.213	198.21(M)
	131 Methyl Acrylate	55	4.369	4.377	(0.907)	376406	45.5808	45.58(M)
	200 Dimethyl Disulfide	94	6.746	6.750	(0.824)	342782	43.9278	43.92
	23 Chloroprene	53	2.158	2.165	(0.448)	106743	42.8616	42.86(M)
	49 Ethyl Methacrylate	69	7.293	7.297	(1.313)	493833	48.7533	48.75
	166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	946548	45.0091	45.00
	167 Ethanol	45	2.083	2.098	(0.433)	87414	894.820	894.81
	164 Dicyclopentadiene	66	10.198	10.202	(1.003)	1170894	43.8737	43.87
	145 alpha-Methylstyrene	118	9.752	9.756	(0.959)	456404	44.8638	44.86
	142 Tetrahydrofuran	42	4.545	4.549	(0.944)	124728	90.2172	90.21
	156 Diisopropyl ether	45	3.623	3.631	(0.752)	968924	44.5026	44.50
	151 4-Methyl-2-pentanol	45	7.222	7.226	(1.300)	1465561	852.923	852.92
	150 Allyl alcohol	57	3.342	3.350	(0.694)	279959	862.620	862.62
	86 Benzyl Chloride	91	10.311	10.311	(1.260)	308230	48.8252	48.82
	162 Butyl acrylate	55	8.733	8.733	(1.067)	606576	48.4779	48.47
	139 Diethyl ether	59	2.143	2.154	(0.445)	236202	44.7701	44.77
	203 2-Ethylhexyl Acrylate	55	12.043	12.039	(1.184)	256043	48.8830	48.88
	134 Cyclohexanone	55	9.153	9.156	(0.900)	315426	929.955	929.95
	130 Ethyl Acetate	43	4.343	4.272	(0.902)	367738	52.6863	52.68
	189 n-Butyl acetate	43	7.706	7.709	(0.941)	585580	48.6187	48.61(M)
	182 Epichlorohydrin	57	6.633	6.633	(1.194)	19670	179.479	179.47
	132 n-Butanol	56	5.831	5.835	(1.211)	194822	876.568	876.56

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.



Data File: \\nahstws005\target\chem\voa9,i\u230606,b\u060616,d
Date : 06-JUN-2023 16:48
Client ID: ICV
Sample Info: CCV;CCV;2;;;ICV
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: PC
Column diameter: 0.18

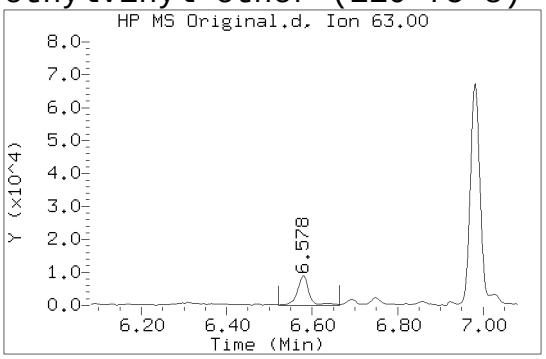
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060616.d
Inj Date : 06-JUN-2023 16:48
InstruID : VOA9.i
LabSampID : ICV

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

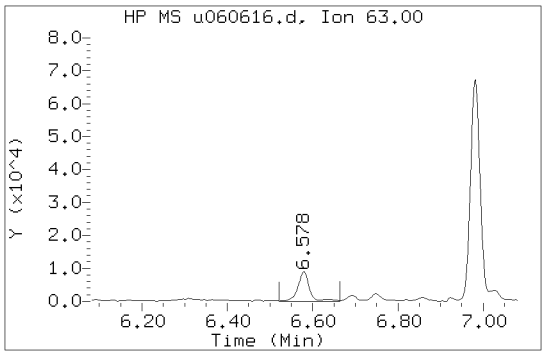
BEFORE

MASS
63
AREA
17278
HEIGHT
8945
08-Jun-2023
14:56
linh
pham



AFTER

MASS
63
AREA
17278
HEIGHT
8945
21-Jun-2023
13:48
linh
pha



BEFORE

MASS
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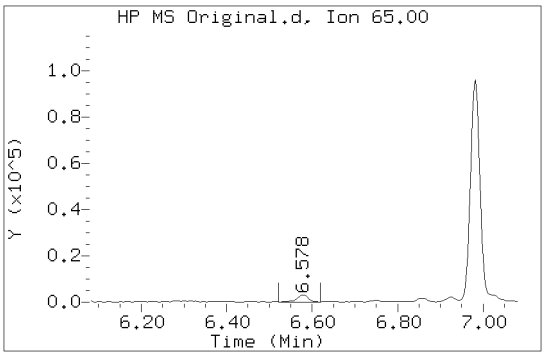
AREA
5481
HEIGHT
3011
08-Jun-2023
14:56
linh
pham



AFTER

MASS
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AREA
5481
HEIGHT
3011
21-Jun-2023
13:48
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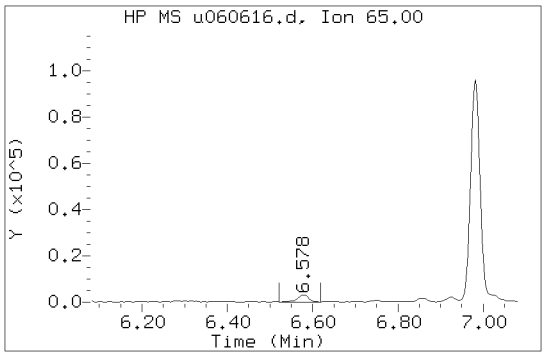
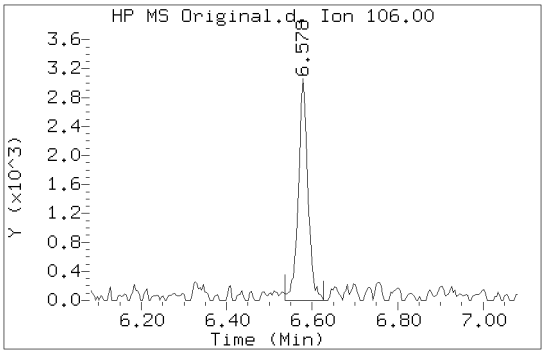


BEFORE

MASS
106
AREA
4846
HEIGHT
3061
08-Jun-2023
14:56
linh
pham



AFTER

MASS
106
AREA
4846
HEIGHT
3061
21-Jun-2023
13:48
linh
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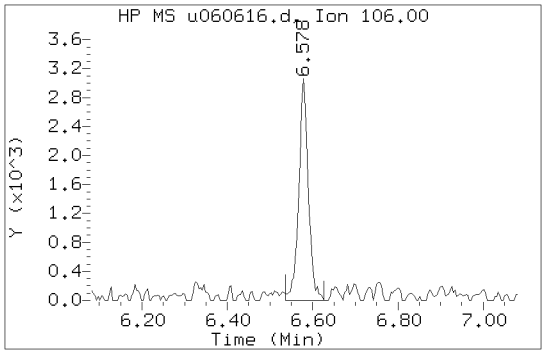
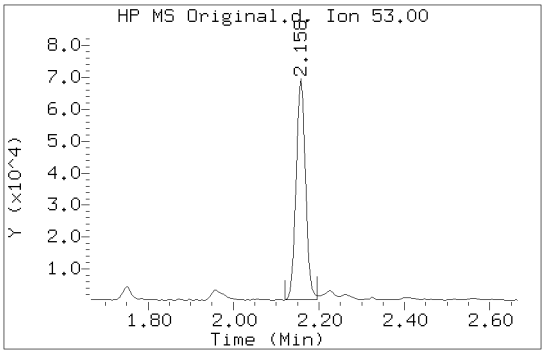


Chloroprene (126-99-8)

Reason Code:

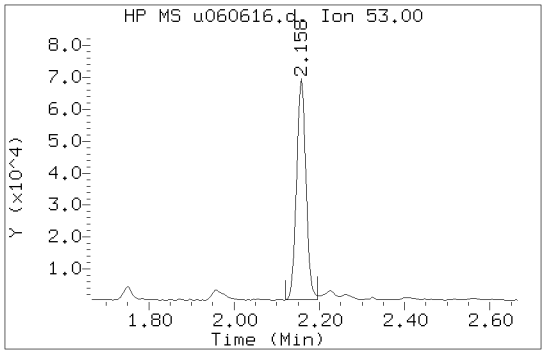
BEFORE

MASS
53
AREA
106743
HEIGHT
69224
08-Jun-2023
14:56
linh
pham



AFTER

MASS
53
AREA
106743
HEIGHT
69224
21-Jun-2023
13:48
linh
pha



Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060616.d
Inj Date : 06-JUN-2023 16:48
InstruID : VOA9.i
LabSampID : ICV

Chloroprene (126-99-8)

Reason Code:

BEFORE

MASS
88
AREA
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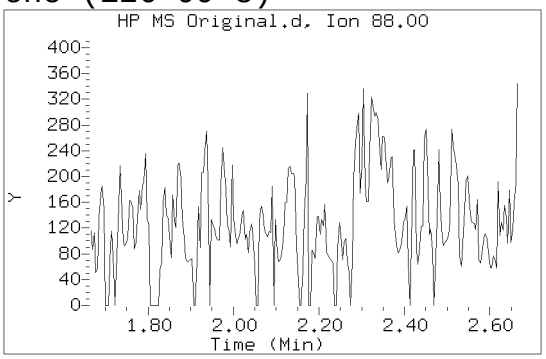
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
88
AREA
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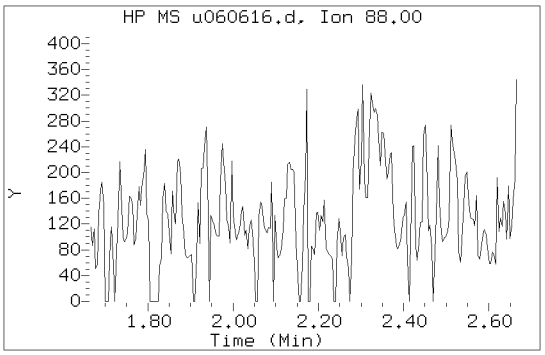
HEIGHT
0
21-Jun-2023
13:48
linh
pha



Methyl Acrylate (96-33-3)

Reason Code:

BEFORE

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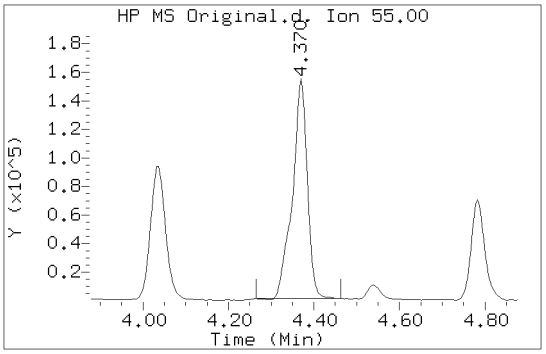
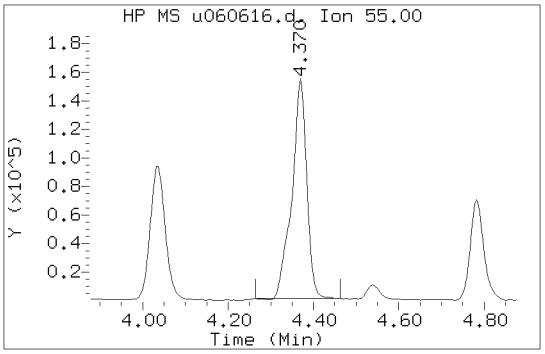
AREA
376406
HEIGHT
153880
08-Jun-2023
14:56
linh
pham



AFTER

MASS
55
AREA
376406
HEIGHT
153880
21-Jun-2023
13:48
linh
pha



BEFORE

MASS
85
AREA
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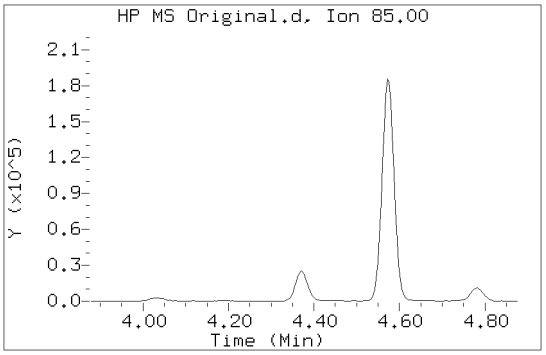
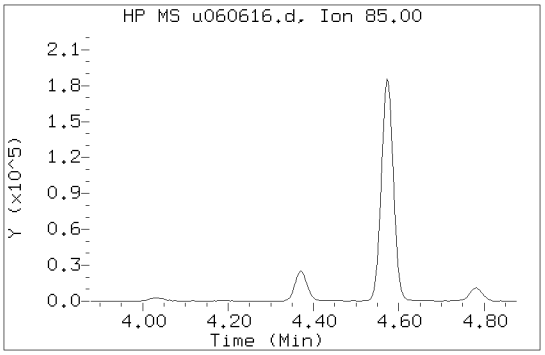
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
85
AREA
0
HEIGHT
0
21-Jun-2023
13:48
linh
pha

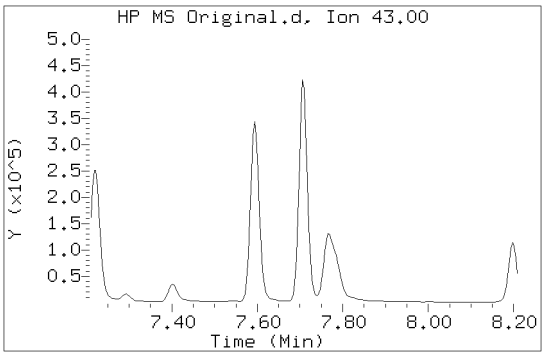


n-Butyl acetate (123-86-4)

Reason Code:

BEFORE

MASS
43
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
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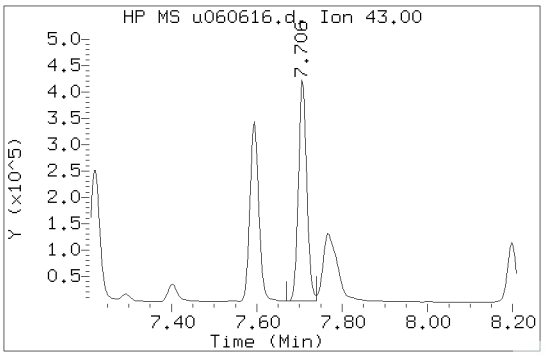
AREA
585580
HEIGHT
419610
21-Jun-2023
13:48
linh
pha

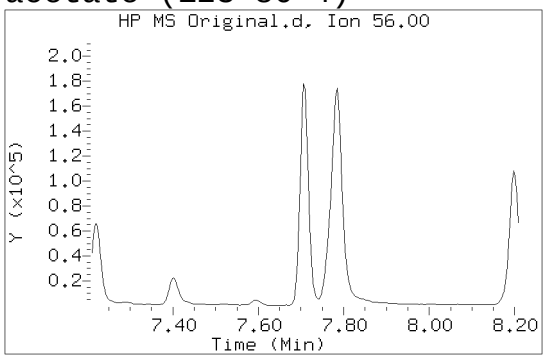


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060616.d
Inj Date : 06-JUN-2023 16:48
InstruID : VOA9.i
LabSampID : ICV

n-Butyl acetate (123-86-4)

BEFORE

MASS
56
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



BEFORE

MASS
87
AREA
0
HEIGHT
0
08-Jun-2023
14:56
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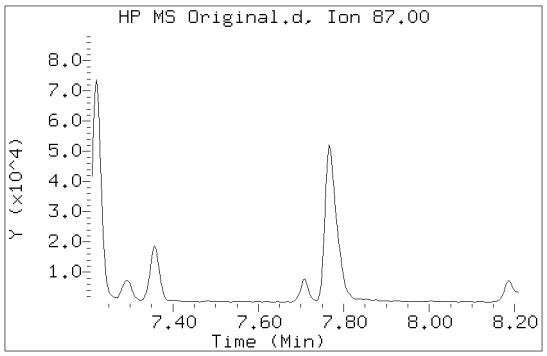
pham



Reason Code:

AFTER

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AREA
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HEIGHT
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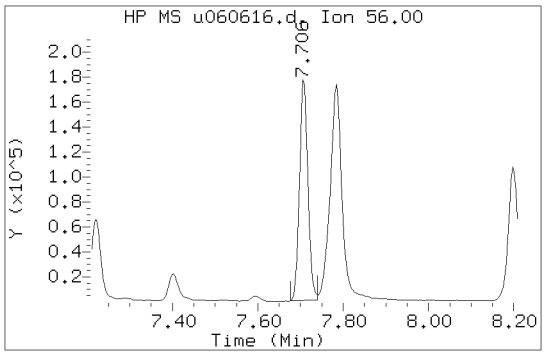
21-Jun-2023
13:48
linh
pha



AFTER

MASS
87
AREA
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HEIGHT
7486
21-Jun-2023
13:48
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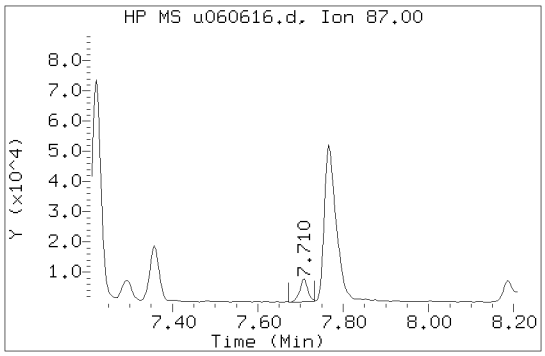
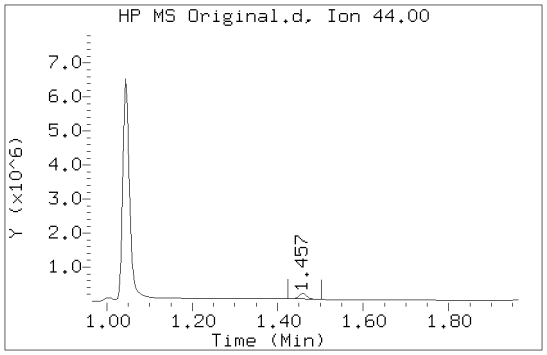


Acetaldehyde (75-07-0)

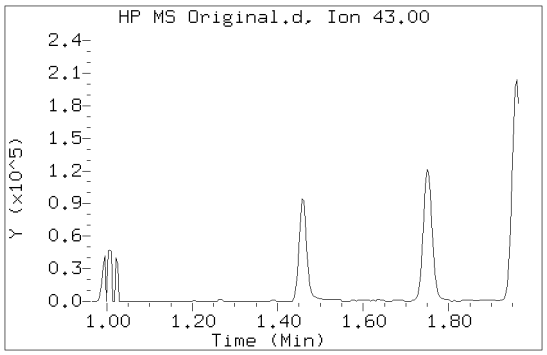
BEFORE

MASS
44
AREA
213458
HEIGHT
168169
08-Jun-2023
14:56
linh
pham



BEFORE

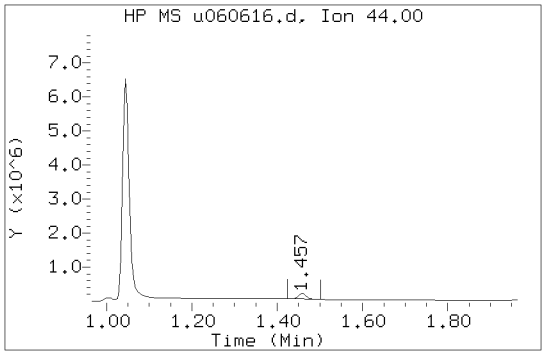
MASS
43
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



Reason Code:

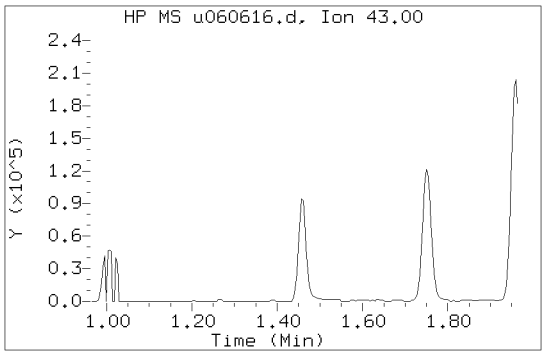
AFTER

MASS
44
AREA
213458
HEIGHT
168169
21-Jun-2023
13:48
linh
pha



AFTER

MASS
43
AREA
0
HEIGHT
0
21-Jun-2023
13:48
linh
pha



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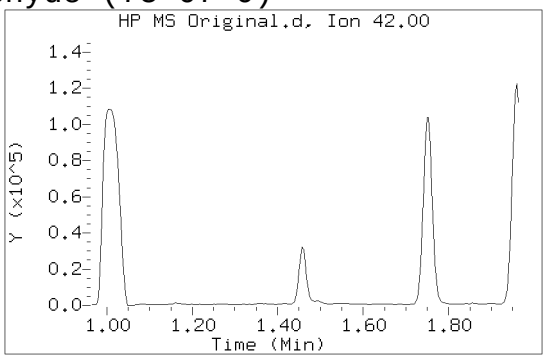
Inj Date : 06-JUN-2023 16:48
InstruID : VOA9.i
LabSampID : ICV

Acetaldehyde (75-07-0)

Reason Code:

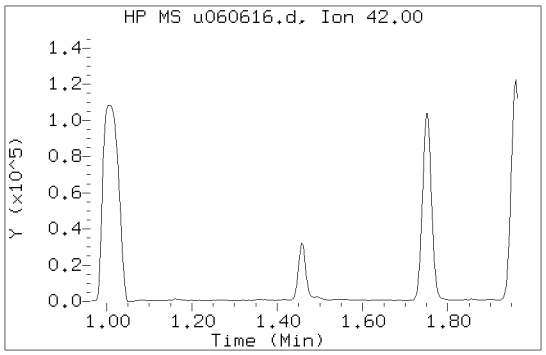
BEFORE

MASS
42
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
42
AREA
0
HEIGHT
0
21-Jun-2023
13:48
linh
pha



01201879

right solutions.
right partner.

Raw Data VOA9 440247

Volatiles by EPA 8260

Workorder

HS23061712

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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\U230629.b\U062901.D Page 1
Report Date: 29-Jun-2023 11:14

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062901.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 29-JUN-2023 10:25
Operator : PC Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230629.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: NAHSTW7051

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	
9.193	9.180	(0.000)	95	137408			0.00- 100.00	100.00
9.193	9.180	(0.000)	50	26296			15.00- 40.00	19.14
9.193	9.180	(0.000)	75	66800			30.00- 60.00	48.61
9.193	9.180	(0.000)	96	9899			5.00- 9.00	7.20
9.193	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.193	9.180	(0.000)	174	126192			50.00- 0.00	91.84
9.193	9.180	(0.000)	175	10615			5.00- 9.00	8.41
9.193	9.180	(0.000)	176	122792			95.00- 101.00	97.31
9.193	9.180	(0.000)	177	8415			5.00- 9.00	6.85

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.14
75	30.00 - 60.00% of mass 95	48.61
96	5.00 - 9.00% of mass 95	7.20
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	91.84
175	5.00 - 9.00% of mass 174	7.73 (8.41)
176	95.00 - 101.00% of mass 174	89.36 (97.31)
177	5.00 - 9.00% of mass 176	6.12 (6.85)

Data File: U062901.D
Spectrum: Scan 2293 (9.19)
Location of Maximum: 95.00
Number of points: 176

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	252	79.90	1665	124.80	61	170.80	874
36.00	1546	80.90	4141	125.80	118	171.90	843
37.00	7371	81.80	969	126.80	1403	173.90	126192
38.00	6957	83.00	567	127.90	738	175.00	10615
39.00	4817	84.10	264	128.90	281	175.90	122792
39.90	1246	84.80	175	129.90	545	176.90	8415
41.00	3515	86.10	263	130.80	213	177.90	210
42.00	4906	86.90	5179	131.40	69	178.60	55
43.00	4642	87.90	5591	132.30	65	180.50	60
44.00	2110	89.90	116	133.10	62	181.80	74
45.00	3367	90.90	751	134.90	277	182.90	57
46.10	375	92.00	4065	135.60	101	183.30	67
47.00	2085	93.00	6359	136.20	103	184.70	126
48.00	1081	94.00	16776	136.80	262	185.10	138
49.00	5281	95.00	137408	137.80	84	185.90	1127
50.00	26296	96.00	9899	138.60	115	191.00	65
51.00	8560	97.00	491	139.90	228	192.00	133
52.00	635	98.00	2525	140.80	1717	197.30	57
53.10	480	99.10	328	141.90	1502	206.80	130
54.00	852	99.70	121	142.90	1498	208.10	64
55.00	5512	101.20	83	143.90	219	209.70	68
55.90	2893	102.00	89	145.00	202	216.90	55
57.00	4420	102.80	151	145.90	185	217.40	86
58.00	1604	103.90	570	146.90	124	233.90	111
59.00	5551	104.90	321	147.90	521	234.40	78
60.00	1485	105.80	626	148.90	250	234.80	55
61.00	6331	107.00	462	149.80	154	237.00	72
62.00	6243	108.00	88	152.00	92	237.90	75
63.00	5141	109.00	188	153.00	250	245.40	100
64.00	723	109.90	163	154.00	183	255.00	78
64.90	549	110.90	230	154.90	513	259.70	92
65.80	168	111.70	113	155.60	133	261.00	57
67.00	589	112.90	276	156.00	86	262.70	63
68.00	13898	113.50	55	156.80	310	278.70	83
69.00	14912	114.50	77	158.40	85	287.80	76
70.00	2302	115.00	164	159.00	150	301.50	51
71.10	302	115.90	587	159.70	85	311.90	72
71.90	711	116.90	774	160.90	294	312.80	55
73.00	6584	117.90	482	161.80	105	329.10	61
74.00	23440	118.90	811	165.10	51	331.30	56
75.00	66800	119.80	149	165.70	97	340.70	58
76.00	6044	122.00	115	167.00	66		
77.00	1228	122.60	81	167.70	105		
77.90	790	123.30	120	168.10	83		
78.90	3911	123.70	113	169.60	237		

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Data File: \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062901.D Page 1

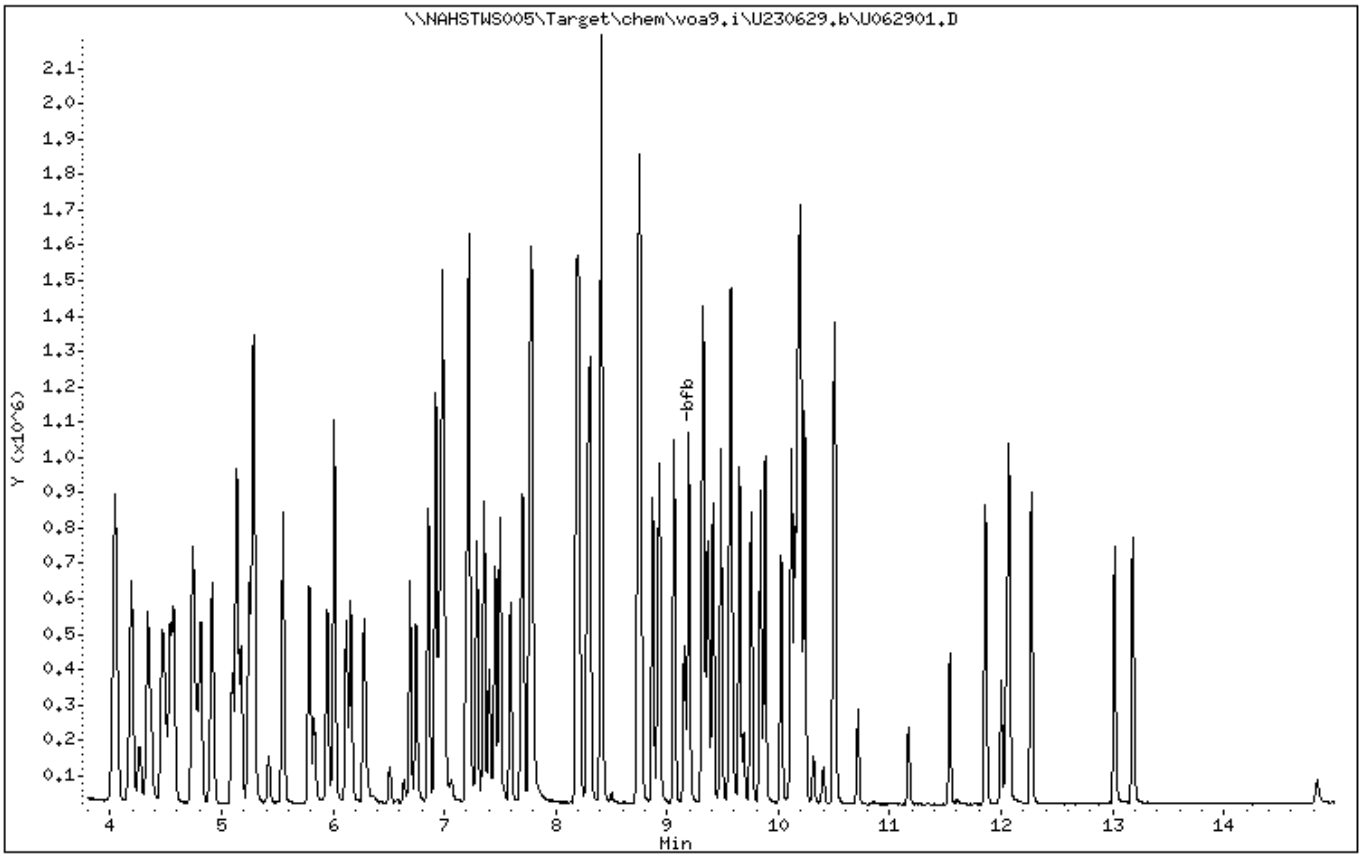
Date : 29-JUN-2023 10:25

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062901.D Page 2

Date : 29-JUN-2023 10:25

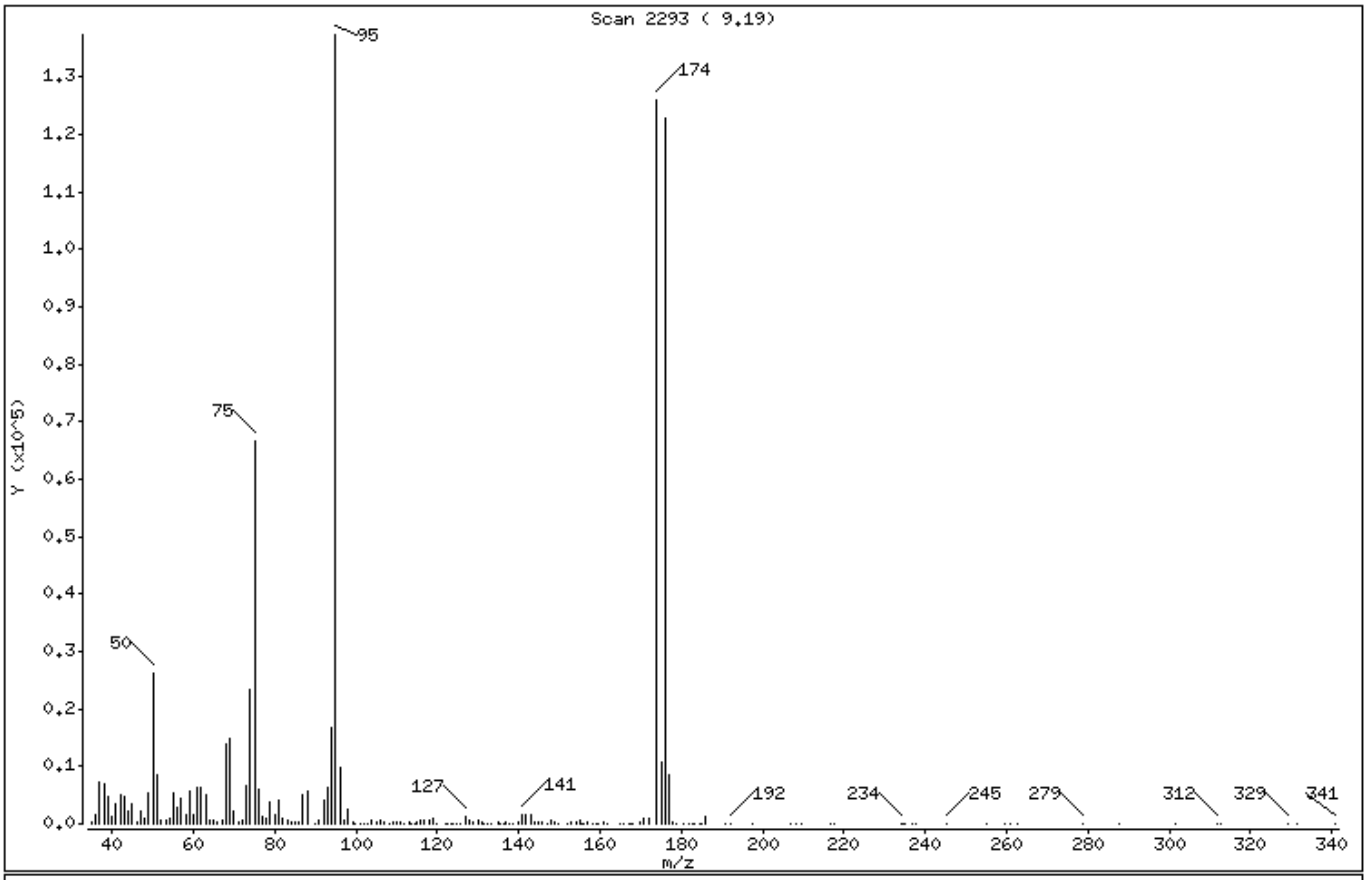
Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

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	19.14
75	30.00 - 60.00% of mass 95	48.61
96	5.00 - 9.00% of mass 95	7.20
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	91.84
175	5.00 - 9.00% of mass 174	7.73 (8.41)
176	95.00 - 101.00% of mass 174	89.36 (97.31)
177	5.00 - 9.00% of mass 176	6.12 (6.85)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062901.D Page 3

Date : 29-JUN-2023 10:25

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

Data File: U062901.D
Spectrum: Scan 2293 (9.19)
Location of Maximum: 95.00
Number of points: 176

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	252	79.90	1665	124.80	61	170.80	874
36.00	1546	80.90	4141	125.80	118	171.90	843
37.00	7371	81.80	969	126.80	1403	173.90	126192
38.00	6957	83.00	567	127.90	738	175.00	10615
39.00	4817	84.10	264	128.90	281	175.90	122792
39.90	1246	84.80	175	129.90	545	176.90	8415
41.00	3515	86.10	263	130.80	213	177.90	210
42.00	4906	86.90	5179	131.40	69	178.60	55
43.00	4642	87.90	5591	132.30	65	180.50	60
44.00	2110	89.90	116	133.10	62	181.80	74
45.00	3367	90.90	751	134.90	277	182.90	57
46.10	375	92.00	4065	135.60	101	183.30	67
47.00	2085	93.00	6359	136.20	103	184.70	126
48.00	1081	94.00	16776	136.80	262	185.10	138
49.00	5281	95.00	137408	137.80	84	185.90	1127
50.00	26296	96.00	9899	138.60	115	191.00	65
51.00	8560	97.00	491	139.90	228	192.00	133
52.00	635	98.00	2525	140.80	1717	197.30	57
53.10	480	99.10	328	141.90	1502	206.80	130
54.00	852	99.70	121	142.90	1498	208.10	64
55.00	5512	101.20	83	143.90	219	209.70	68
55.90	2893	102.00	89	145.00	202	216.90	55
57.00	4420	102.80	151	145.90	185	217.40	86
58.00	1604	103.90	570	146.90	124	233.90	111
59.00	5551	104.90	321	147.90	521	234.40	78
60.00	1485	105.80	626	148.90	250	234.80	55
61.00	6331	107.00	462	149.80	154	237.00	72
62.00	6243	108.00	88	152.00	92	237.90	75
63.00	5141	109.00	188	153.00	250	245.40	100
64.00	723	109.90	163	154.00	183	255.00	78
64.90	549	110.90	230	154.90	513	259.70	92
65.80	168	111.70	113	155.60	133	261.00	57
67.00	589	112.90	276	156.00	86	262.70	63
68.00	13898	113.50	55	156.80	310	278.70	83
69.00	14912	114.50	77	158.40	85	287.80	76

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062901.D

Date : 29-JUN-2023 10:25

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

Data File: U062901.D
Spectrum: Scan 2293 (9.19)
Location of Maximum: 95.00
Number of points: 176

m/z	Y	m/z	Y	m/z	Y	m/z	Y
70.00	2302	115.00	164	159.00	150	301.50	51
71.10	302	115.90	587	159.70	85	311.90	72
71.90	711	116.90	774	160.90	294	312.80	55
73.00	6584	117.90	482	161.80	105	329.10	61
74.00	23440	118.90	811	165.10	51	331.30	56
75.00	66800	119.80	149	165.70	97	340.70	58
76.00	6044	122.00	115	167.00	66		
77.00	1228	122.60	81	167.70	105		
77.90	790	123.30	120	168.10	83		
78.90	3911	123.70	113	169.60	237		

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062903.D Page 1
Report Date: 03-Jul-2023 13:02

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062903.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 29-JUN-2023 11:09
Operator : PC Inst ID: VOA9.i
Smp Info : CCV;CCV;2;;;
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\8260C.m
Meth Date : 03-Jul-2023 13:02 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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)	567832	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.160	(0.241)	248826	50.0000	47.43
3	Chloromethane	50	1.291	1.291	(0.268)	360189	50.0000	41.84
5	Vinyl Chloride	62	1.370	1.370	(0.285)	289205	50.0000	48.15
6	Bromomethane	94	1.614	1.614	(0.335)	173249	50.0000	56.32
7	Chloroethane	64	1.696	1.696	(0.352)	195134	50.0000	48.22
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	374393	50.0000	54.27
9	Acrolein	56	2.259	2.259	(0.469)	29341	100.000	97.35
10	Acetone	43	2.405	2.405	(0.499)	199771	100.000	102.57
11	1,1-Dichloroethene	96	2.326	2.326	(0.483)	218196	50.0000	50.62
15	Iodomethane	142	2.465	2.465	(0.512)	469765	100.000	132.11
16	Acrylonitrile	53	3.061	3.061	(0.636)	207130	100.000	98.36
17	Methylene Chloride	84	2.791	2.791	(0.580)	275015	50.0000	53.17
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	693580	50.0000	52.47
19	Carbon Disulfide	76	2.517	2.517	(0.523)	1317811	100.000	114.36
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.634)	242156	50.0000	51.66
21	Vinyl Acetate	43	3.604	3.604	(0.749)	1523456	100.000	106.61
22	1,1-Dichloroethane	63	3.511	3.511	(0.729)	426488	50.0000	47.87
24	2-Butanone	43	4.264	4.264	(0.886)	243882	100.000	94.20
26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	327931	50.0000	55.63

27 cis-1,2-Dichloroethene	96	4.193	4.193 (0.871)	282555	50.0000	50.38
28 Chloroform	83	4.572	4.572 (0.949)	465274	50.0000	50.18

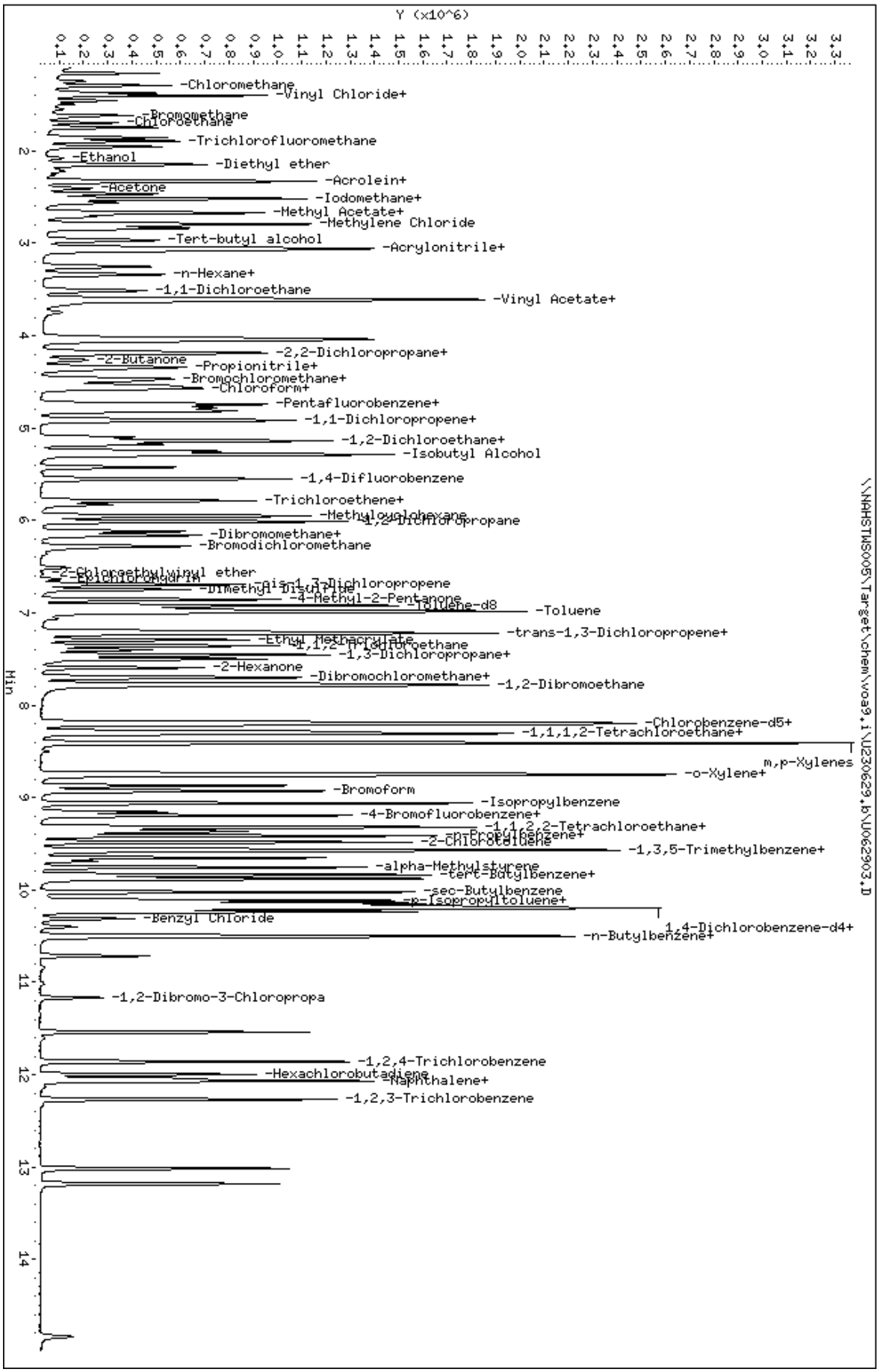
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	29 Bromochloromethane	128	4.467	4.467	(0.928)	156621	50.0000	49.93
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	232377	50.0000	48.74
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	363547	50.0000	51.44
	32 1,1-Dichloropropene	75	4.920	4.920	(0.886)	316664	50.0000	53.31
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	378513	50.0000	53.95
	34 Carbon Tetrachloride	117	4.909	4.909	(0.884)	307890	50.0000	56.43
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	251930	50.0000	48.83
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	810480	50.0000	
	37 Benzene	78	5.138	5.138	(0.925)	1016602	50.0000	52.05
	38 Trichloroethene	130	5.786	5.786	(1.042)	287106	50.0000	50.72
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	343835	50.0000	56.43
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	6674	100.000	45.29
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	271733	50.0000	52.11
	44 Dibromomethane	93	6.120	6.120	(1.102)	181615	50.0000	54.51
	45 4-Methyl-2-Pentanone	43	6.855	6.855	(0.837)	578495	100.000	99.39
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	420561	50.0000	51.46
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	799242	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	862483	50.0000	47.67
	50 Toluene	91	6.982	6.982	(0.853)	1116313	50.0000	51.49
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	355051	50.0000	51.75
	52 2-Hexanone	43	7.593	7.593	(0.928)	382492	100.000	94.36
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	222076	50.0000	49.23
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	470280	50.0000	51.03
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	307648	50.0000	57.48
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	265608	50.0000	50.29
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	287483	50.0000	51.66
	58 1-Chlorohexane	55	8.197	8.197	(1.476)	218237	50.0000	52.43
	59 Chlorobenzene	112	8.208	8.208	(1.003)	783162	50.0000	50.62
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	290290	50.0000	54.59
	61 Ethylbenzene	106	8.305	8.305	(1.015)	373478	50.0000	51.86
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	922302	100.000	108.26
	63 o-Xylene	106	8.748	8.748	(1.069)	454956	50.0000	54.05
	64 Styrene	104	8.763	8.763	(1.071)	768428	50.0000	57.53
	66 Bromoform	173	8.920	8.920	(1.090)	207889	50.0000	57.54
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	1079543	50.0000	53.40
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	379212	50.0000	47.75
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	362803	50.0000	50.92
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	422195	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	356028	50.0000	50.95
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	1172463	50.0000	52.94
	74 Bromobenzene	156	9.317	9.317	(0.916)	358049	50.0000	50.26
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	784940	50.0000	51.66
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	777096	50.0000	49.91
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	881168	50.0000	51.13
	78 tert-Butylbenzene	119	9.839	9.839	(0.967)	761608	50.0000	51.03
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	812621	50.0000	51.11
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	969818	50.0000	51.24
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	831761	50.0000	52.46
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	595532	50.0000	49.22
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	617192	50.0000	47.84
	87 n-Butylbenzene	91	10.491	10.491	(1.031)	689708	50.0000	50.81
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	588353	50.0000	48.50

89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166 (1.098)	55797	50.0000	48.14
90	1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	403211	50.0000	48.32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
91	Hexachlorobutadiene	225	11.998	11.998	(1.179)	172198	50.0000	51.10
92	Naphthalene	128	12.065	12.065	(1.186)	986449	50.0000	50.89
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	385167	50.0000	47.21
M 94	1,2-Dichloroethylene (total)	96				524711	100.000	(a)
135	1,4-Dioxane	88	6.169	6.169	(1.281)	75657	1000.00	671.01
141	Cyclohexane	56	4.778	4.778	(0.992)	321160	50.0000	46.11
138	Freon TF	101	2.330	2.330	(0.484)	207068	50.0000	54.29
140	1,3-Butadiene	54	1.400	1.400	(0.291)	250901	50.0000	46.65
147	Methylcyclohexane	55	5.947	5.947	(1.071)	583437	50.0000	51.89
146	Methyl Acetate	43	2.709	2.709	(0.563)	227335	50.0000	47.54
148	Tert-Butyl alcohol	59	2.967	2.967	(0.616)	561534	1000.00	1070.64
149	Isopropyl Alcohol	45	2.559	2.559	(0.531)	367475	1000.00	989.94
72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	59881	50.0000	65.06
12	Isobutyl Alcohol	43	5.288	5.288	(1.098)	786826	1000.00	1066.49
13	Acetonitrile	39	2.667	2.667	(0.554)	307113	500.000	499.55
14	Allyl Chloride	41	2.667	2.667	(0.554)	708060	50.0000	48.02
25	Methacrylonitrile	41	4.493	4.493	(0.933)	169672	50.0000	50.57
40	Methyl Methacrylate	41	6.157	6.157	(1.279)	255713	50.0000	52.37
4	Propionitrile	54	4.339	4.339	(0.901)	391722	500.000	477.39
131	Methyl Acrylate	55	4.369	4.369	(0.907)	317776	50.0000	52.91
49	Ethyl Methacrylate	69	7.293	7.293	(1.313)	381964	50.0000	53.76
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	804562	50.0000	49.57
156	Diisopropyl ether	45	3.619	3.619	(0.752)	810551	50.0000	51.19

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTMS005\Target\chem\voa9.i\U230629.b\U062903.D
Date : 29-JUN-2023 11:09
Client ID: CCV
Sample Info: CCV,CCV,2,,,
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062903.D
Inj Date : 29-JUN-2023 11:09
InstruID : VOA9.i
LabSampID : CCV

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062904.D Page 1
Report Date: 03-Jul-2023 13:02

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062904.D
Lab Smp Id: CCB Client Smp ID: CCB
Inj Date : 29-JUN-2023 11:32
Operator : PC Inst ID: VOA9.i
Smp Info : CCB;CCB;;;
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\8260C.m
Meth Date : 03-Jul-2023 13:02 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.819	4.815	(1.000)	648308	50.0000	
$ 30 Dibromofluoromethane	113	4.751	4.748	(0.986)	262169	48.1667	48.16
$ 35 1,2-Dichloroethane-d4	65	5.100	5.096	(1.058)	295084	50.1161	50.11
* 36 1,4-Difluorobenzene	114	5.557	5.554	(1.000)	870455	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	795220	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	975326	54.1904	54.19
$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	341661	48.1472	48.14
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	402526	50.0000	

01201896

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062904.D

Date : 29-JUN-2023 11:32

Client ID: CCB

Instrument: VOA9.i

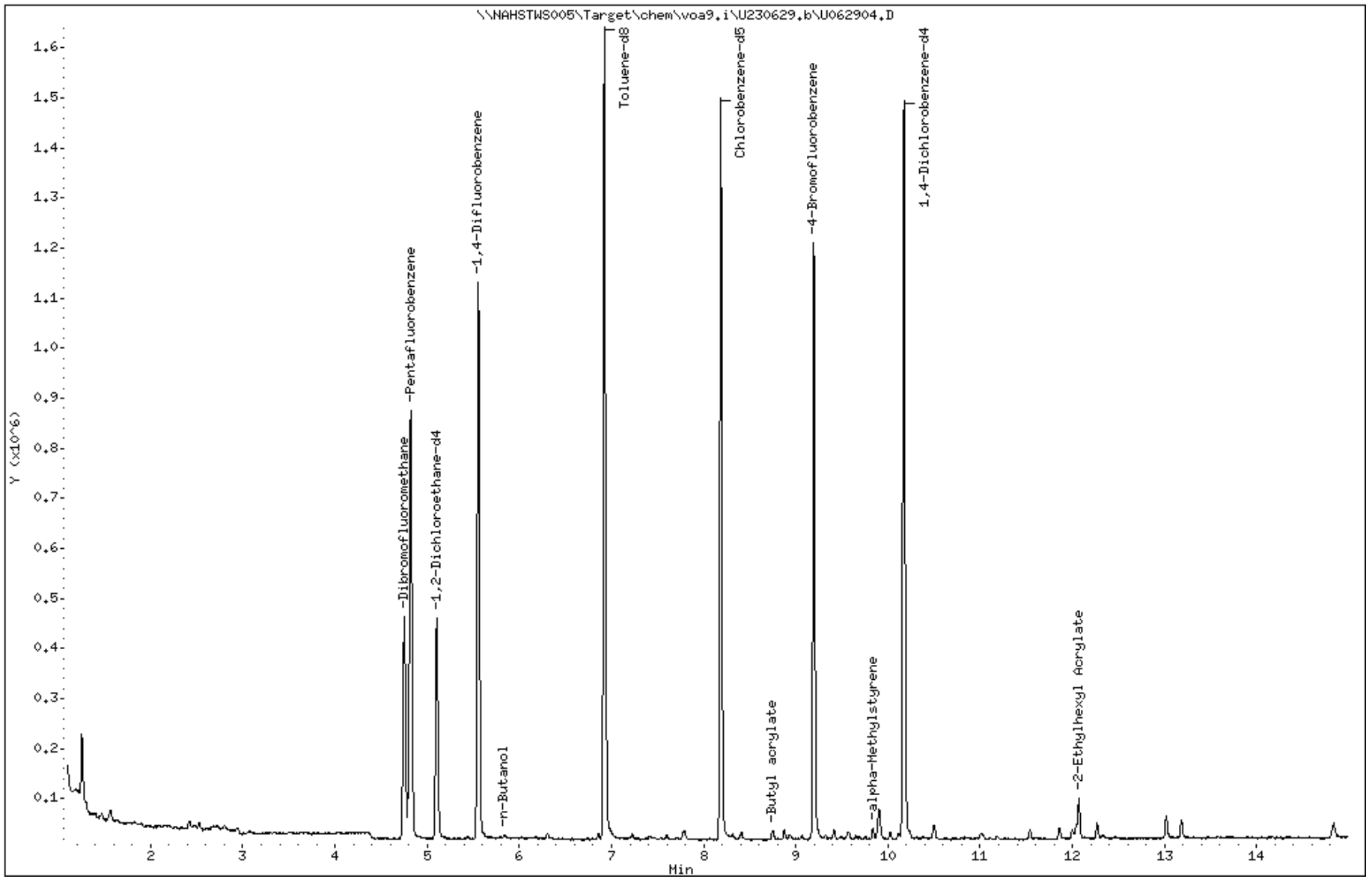
Sample Info: CCB;CCB;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062904.D
Inj Date : 29-JUN-2023 11:32
InstruID : VOA9.i
LabSampID : CCB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062905.D Page 1
Report Date: 03-Jul-2023 13:02

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062905.D
Lab Smp Id: VLCSW-230629 Client Smp ID: VLCSW-230629
Inj Date : 29-JUN-2023 11:54
Operator : PC Inst ID: VOA9.i
Smp Info : VLCSW-230629;VLCSW-230629;3;;LCS
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\8260C.m
Meth Date : 03-Jul-2023 13:02 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.812	4.815	(1.000)	545168	50.0000	
2	Dichlorodifluoromethane	85	1.157	1.160	(0.240)	103457	20.5863	20.58
3	Chloromethane	50	1.291	1.291	(0.268)	150776	17.4831	17.48
5	Vinyl Chloride	62	1.370	1.370	(0.285)	120158	20.8373	20.83
6	Bromomethane	94	1.614	1.614	(0.335)	78766	25.7022	25.70
7	Chloroethane	64	1.693	1.696	(0.352)	79017	20.3418	20.34
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	159418	24.0707	24.07
9	Acrolein	56	2.259	2.259	(0.469)	12173	42.0678	42.06
10	Acetone	43	2.405	2.405	(0.500)	85202	42.3957	42.39
11	1,1-Dichloroethene	96	2.326	2.326	(0.484)	89677	21.6708	21.67
15	Iodomethane	142	2.465	2.465	(0.512)	155189	53.9311	53.93
16	Acrylonitrile	53	3.061	3.061	(0.636)	82353	40.7337	40.73
17	Methylene Chloride	84	2.787	2.791	(0.579)	113377	22.2457	22.24
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	279425	22.0195	22.01
19	Carbon Disulfide	76	2.514	2.517	(0.522)	538878	48.7113	48.71
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	98622	21.9144	21.91
21	Vinyl Acetate	43	3.601	3.604	(0.748)	583509	42.5347	42.53
22	1,1-Dichloroethane	63	3.511	3.511	(0.730)	175524	20.5231	20.52
24	2-Butanone	43	4.264	4.264	(0.886)	92163	37.0788	37.07
26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	131593	23.4849	23.48

27 cis-1,2-Dichloroethene	96	4.193	4.193 (0.871)	113274	21.0393	21.03
28 Chloroform	83	4.568	4.572 (0.949)	190497	21.4009	21.40

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062905.D Page 2
Report Date: 03-Jul-2023 13:02

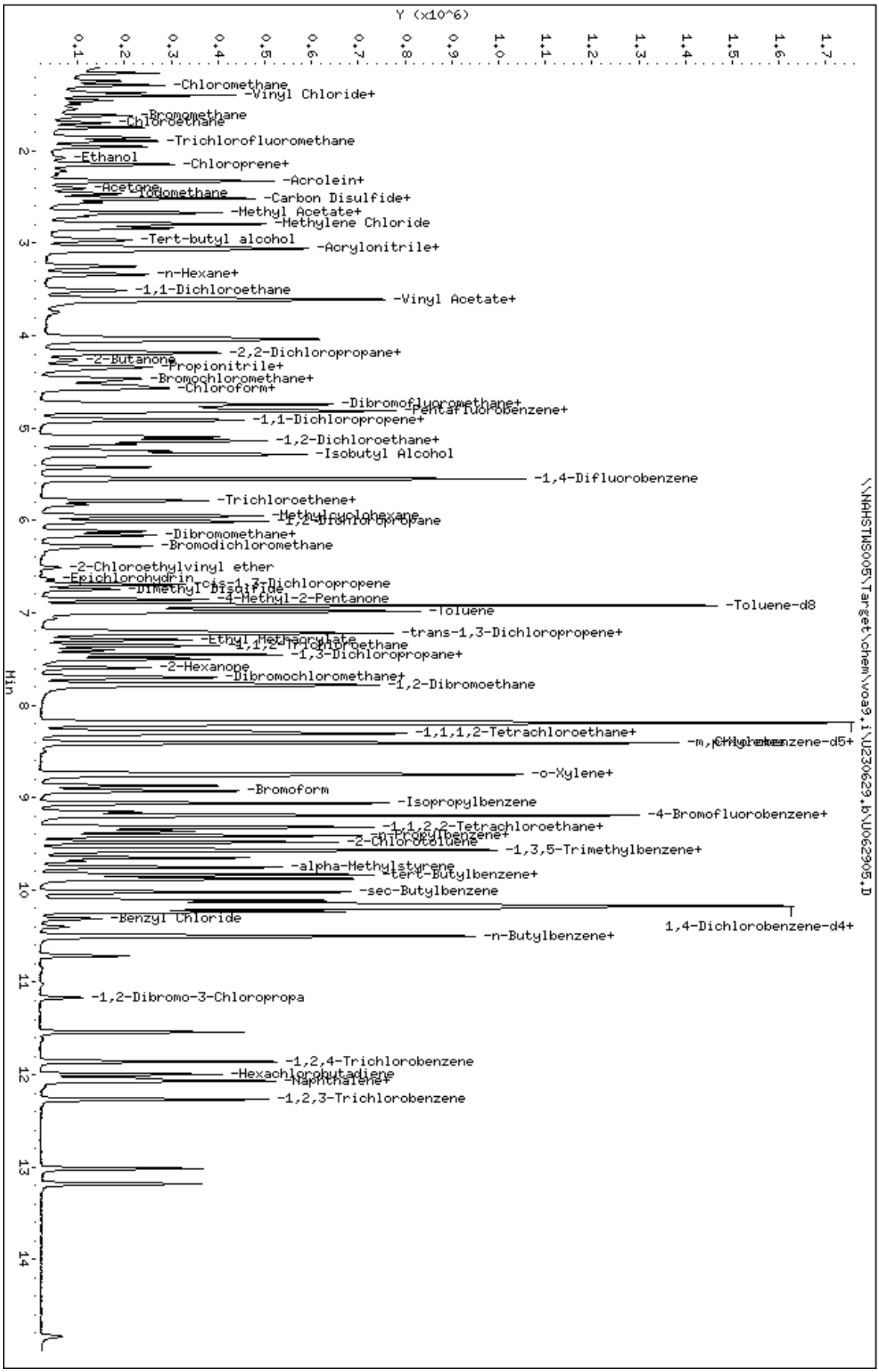
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	29 Bromochloromethane	128	4.467	4.467	(0.928)	61850	20.5373	20.53
$	30 Dibromofluoromethane	113	4.744	4.748	(0.986)	231262	50.5421	50.54
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	155099	22.8613	22.86
	32 1,1-Dichloropropene	75	4.916	4.920	(0.886)	132608	22.5933	22.59
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	156476	22.5740	22.57
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	127589	23.6654	23.66
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	255848	51.6943	51.69
*	36 1,4-Difluorobenzene	114	5.550	5.554	(1.000)	800867	50.0000	
	37 Benzene	78	5.134	5.138	(0.925)	409266	21.2076	21.20
	38 Trichloroethene	130	5.786	5.786	(1.043)	117363	20.9823	20.98
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	130744	21.7190	21.71
	41 2-Chloroethylvinyl ether	63	6.573	6.577	(1.184)	2044	14.0382	14.03(a)
	42 1,2-Dichloropropane	63	6.007	6.011	(1.082)	106865	20.7399	20.73
	44 Dibromomethane	93	6.120	6.120	(1.103)	70724	21.4820	21.48
	45 4-Methyl-2-Pentanone	43	6.855	6.855	(0.837)	213440	37.7547	37.75
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	156373	20.5593	20.55
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	776333	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	853057	48.5501	48.55
	50 Toluene	91	6.982	6.982	(0.853)	453827	21.5533	21.55
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	124116	19.6151	19.61
	52 2-Hexanone	43	7.593	7.593	(0.928)	143163	36.3629	36.36
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	87617	19.9986	19.99
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	182986	20.4428	20.44
	55 Dibromochloromethane	129	7.691	7.694	(0.940)	113552	21.8441	21.84
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	112875	22.0025	22.00
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	112066	20.7356	20.73
	58 1-Chlorohexane	55	8.197	8.197	(1.477)	95210	23.1522	23.15
	59 Chlorobenzene	112	8.208	8.208	(1.003)	324211	21.5743	21.57
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	111503	21.5882	21.58
	61 Ethylbenzene	106	8.305	8.305	(1.015)	154504	22.0898	22.08
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	380413	45.9707	45.97
	63 o-Xylene	106	8.748	8.748	(1.069)	181196	22.1647	22.16
	64 Styrene	104	8.763	8.763	(1.071)	302005	23.2787	23.27
	66 Bromoform	173	8.920	8.920	(1.090)	73958	21.0776	21.07
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	456971	23.2728	23.27
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	149036	19.3480	19.34
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	357047	51.6033	51.60
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	409506	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	132284	19.5209	19.52
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	494199	23.0075	23.00
	74 Bromobenzene	156	9.317	9.317	(0.916)	146321	21.1769	21.17
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	333102	22.6043	22.60
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	330415	21.8823	21.88
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	372249	22.2721	22.27
	78 tert-Butylbenzene	119	9.839	9.839	(0.967)	328495	22.6964	22.69
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	344247	22.3264	22.32
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	419945	22.8793	22.87
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	354699	23.0667	23.06
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	249006	21.2185	21.21
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	261383	20.8901	20.89
	87 n-Butylbenzene	91	10.491	10.491	(1.031)	298939	22.7087	22.70
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	245677	20.8797	20.87

89	1,2-Dibromo-3-Chloropropane	155	11.169	11.166 (1.098)	19156	17.0422	17.04
90	1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	160536	19.8360	19.83

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	91 Hexachlorobutadiene	225	11.998	11.998	(1.179)	72757	22.2609	22.26
	92 Naphthalene	128	12.069	12.065	(1.186)	365251	19.4288	19.42
	93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	154243	19.4950	19.49
M	94 1,2-Dichloroethylene (total)	96				211896	42.9537	42.95
M	95 Xylenes (total)	106				561609	68.1354	68.13
	135 1,4-Dioxane	88	6.172	6.169	(1.283)	26694	246.596	246.59
	141 Cyclohexane	56	4.778	4.778	(0.993)	144654	22.0083	22.00
	138 Freon TF	101	2.330	2.330	(0.484)	88189	24.0862	24.08
	140 1,3-Butadiene	54	1.396	1.400	(0.290)	104587	20.2572	20.25
	147 Methylcyclohexane	55	5.947	5.947	(1.072)	233243	20.9947	20.99
	146 Methyl Acetate	43	2.708	2.709	(0.563)	88143	19.2018	19.20
	148 Tert-Butyl alcohol	59	2.963	2.967	(0.616)	215360	424.709	424.70
	149 Isopropyl Alcohol	45	2.559	2.559	(0.532)	136069	381.795	381.79
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	20525	22.9617	22.96
	12 Isobutyl Alcohol	43	5.288	5.288	(1.099)	333467	470.783	470.78
	13 Acetonitrile	39	2.667	2.667	(0.554)	127360	215.780	215.77
	14 Allyl Chloride	41	2.667	2.667	(0.554)	285544	20.1742	20.17
	25 Methacrylonitrile	41	4.493	4.493	(0.934)	66001	20.4911	20.49
	40 Methyl Methacrylate	41	6.157	6.157	(1.280)	95784	20.4341	20.43
	4 Propionitrile	54	4.335	4.339	(0.901)	159051	201.897	201.89(a)
	131 Methyl Acrylate	55	4.365	4.369	(0.907)	126196	21.8874	21.88
	49 Ethyl Methacrylate	69	7.293	7.293	(1.314)	141837	20.2038	20.20
	166 1,2,3-Trimethylbenzene	105	10.232	10.236	(1.006)	335628	21.3219	21.32
	156 Diisopropyl ether	45	3.616	3.619	(0.751)	335145	22.0471	22.04

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



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Date : 29-JUN-2023 11:54
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Sample Info: VLCSW-230629;VLCSW-230629;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062905.D
Inj Date : 29-JUN-2023 11:54
InstruID : VOA9.i
LabSampID : VLCSW-230629

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062907.D Page 1
Report Date: 03-Jul-2023 13:02

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062907.D
Lab Smp Id: VBLKW-230629 Client Smp ID: VBLKW-230629
Inj Date : 29-JUN-2023 12:39
Operator : PC Inst ID: VOA9.i
Smp Info : VBLKW-230629;VBLKW-230629;3;;BLANK
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\8260C.m
Meth Date : 03-Jul-2023 13:02 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.815	4.815	(1.000)	641704	50.0000	
$ 30 Dibromofluoromethane	113	4.748	4.748	(0.986)	261423	48.5262	48.52
$ 35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	297667	51.0881	51.08
* 36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	867792	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	788040	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	960597	53.8584	53.85
$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	331839	47.1711	47.17
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	391345	50.0000	

01201906

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062907.D

Date : 29-JUN-2023 12:39

Client ID: VBLKW-230629

Instrument: VOA9.i

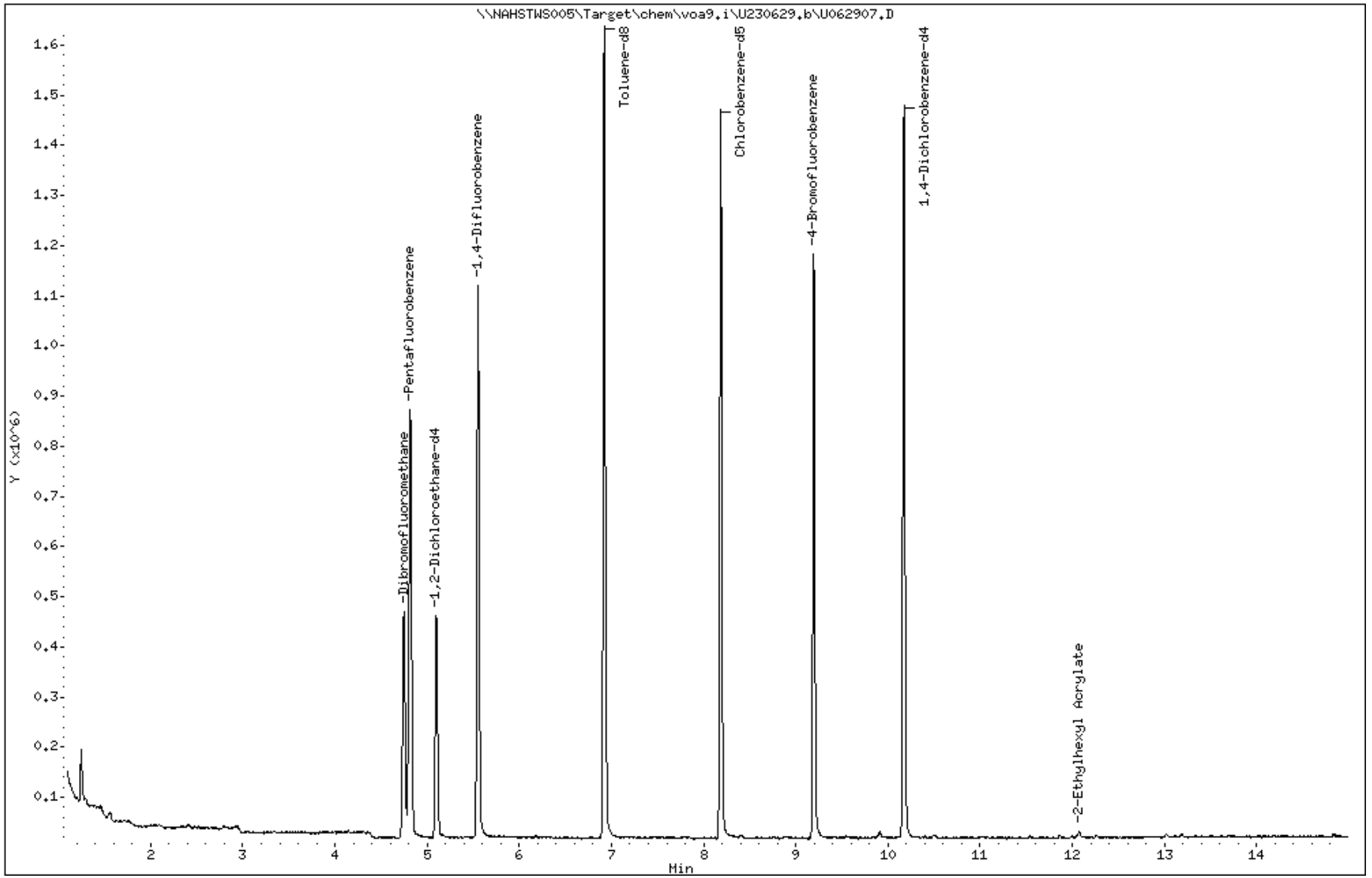
Sample Info: VBLKW-230629;VBLKW-230629;3;;BLANK

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Inj Date : 29-JUN-2023 12:39
InstruID : VOA9.i
LabSampID : VBLKW-230629

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062913.D Page 1
Report Date: 03-Jul-2023 13:02

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062913.D
Lab Smp Id: HS23061825-03MS Client Smp ID: HS23061825-03MS
Inj Date : 29-JUN-2023 15:10
Operator : PC Inst ID: VOA9.i
Smp Info : HS23061825-03MS;HS23061825-03MS;3;;MS
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\8260C.m
Meth Date : 03-Jul-2023 13:02 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 13 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.815	4.815	(1.000)	636356	50.0000	
2	Dichlorodifluoromethane	85	1.164	1.160	(0.242)	104716	17.8616	17.86
3	Chloromethane	50	1.299	1.291	(0.270)	158286	15.5881	15.58
5	Vinyl Chloride	62	1.378	1.370	(0.286)	133359	19.8126	19.81
6	Bromomethane	94	1.618	1.614	(0.336)	85239	23.6946	23.69
7	Chloroethane	64	1.700	1.696	(0.353)	90526	19.9651	19.96
8	Trichlorofluoromethane	101	1.895	1.891	(0.394)	183671	23.7587	23.75
9	Acrolein	56	2.270	2.259	(0.471)	9918	29.3634	29.36
10	Acetone	43	2.409	2.405	(0.500)	74432	30.2936	30.29
11	1,1-Dichloroethene	96	2.334	2.326	(0.485)	104468	21.6276	21.62
15	Iodomethane	142	2.468	2.465	(0.513)	161437	49.2379	49.23
16	Acrylonitrile	53	3.068	3.061	(0.637)	110154	46.6772	46.67
17	Methylene Chloride	84	2.795	2.791	(0.580)	118931	19.8874	19.88
18	Methyl tert-butyl ether	73	3.080	3.076	(0.640)	276419	18.6613	18.66
19	Carbon Disulfide	76	2.521	2.517	(0.524)	552146	42.7586	42.75
20	trans-1,2-Dichloroethene	96	3.061	3.053	(0.636)	107902	20.5407	20.54
21	Vinyl Acetate	43	3.608	3.604	(0.749)	593972	37.0930	37.09
22	1,1-Dichloroethane	63	3.514	3.511	(0.730)	190875	19.1199	19.11
24	2-Butanone	43	4.268	4.264	(0.886)	91321	31.4753	31.47
26	2,2-Dichloropropane	77	4.182	4.178	(0.868)	146498	22.4169	22.41

27 cis-1,2-Dichloroethene	96	4.197	4.193 (0.872)	124933	19.8797	19.87
28 Chloroform	83	4.575	4.572 (0.950)	200995	19.3446	19.34

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062913.D Page 2
Report Date: 03-Jul-2023 13:02

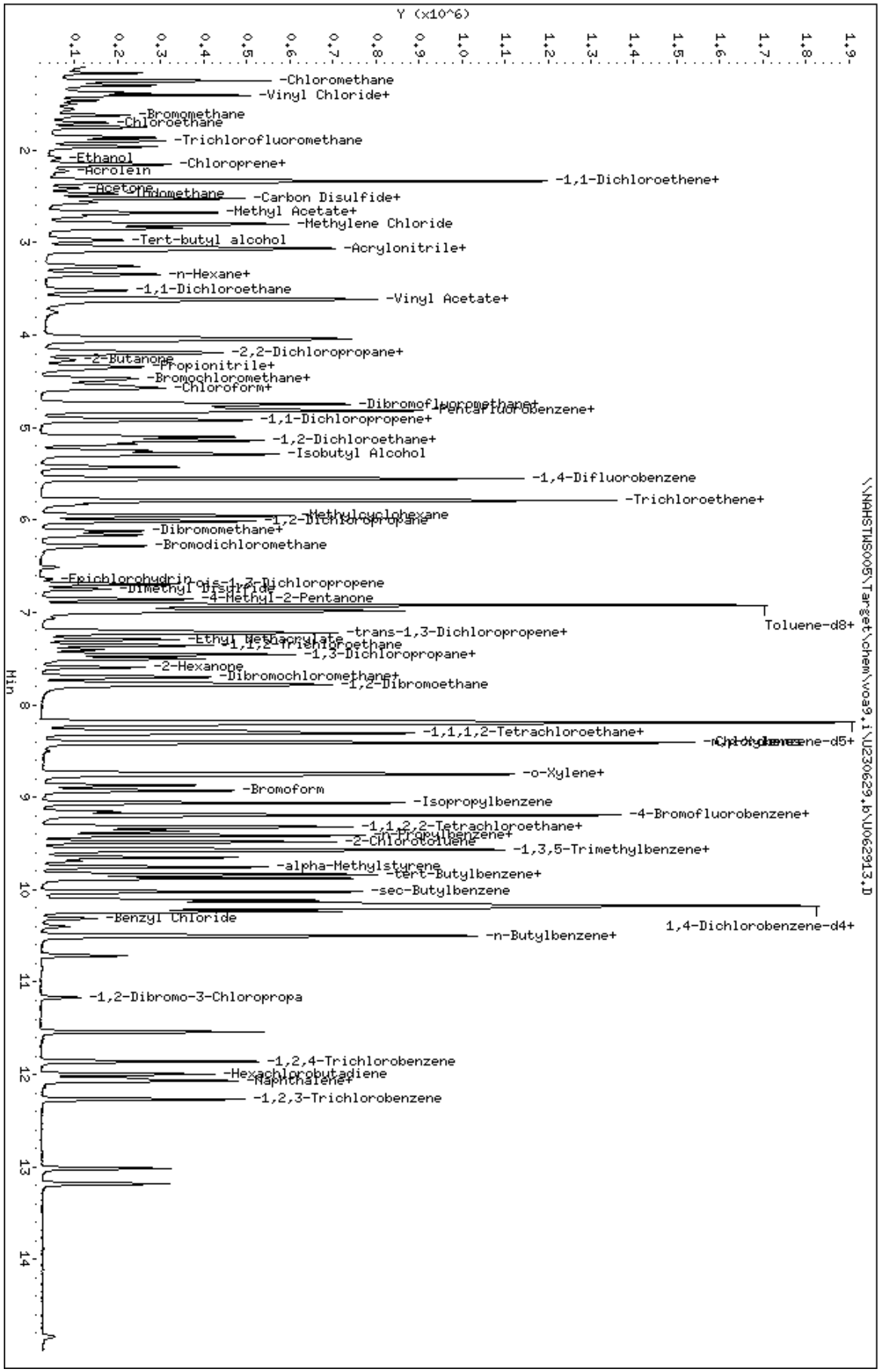
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	29 Bromochloromethane	128	4.470	4.467	(0.928)	64767	18.4241	18.42
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	266311	49.8576	49.85
	31 1,1,1-Trichloroethane	97	4.744	4.740	(0.985)	171211	21.6199	21.61
	32 1,1-Dichloropropene	75	4.920	4.920	(0.886)	145079	23.0528	23.05
	33 1,2-Dichloroethane	62	5.179	5.175	(0.933)	171125	23.0242	23.02
	34 Carbon Tetrachloride	117	4.913	4.909	(0.885)	143894	24.8916	24.89
$	35 1,2-Dichloroethane-d4	65	5.100	5.096	(1.059)	299178	51.7882	51.78
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	858718	50.0000	
	37 Benzene	78	5.141	5.138	(0.926)	436246	21.0827	21.08
	38 Trichloroethene	130	5.790	5.786	(1.043)	434806	72.4984	72.49
	39 Bromodichloromethane	83	6.281	6.277	(1.131)	137243	21.2627	21.26
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	111104	20.1100	20.10
	44 Dibromomethane	93	6.120	6.120	(1.102)	73931	20.9433	20.94
	45 4-Methyl-2-Pentanone	43	6.858	6.855	(0.838)	211951	35.4731	35.47
	46 cis-1,3-Dichloropropene	75	6.693	6.690	(1.205)	155284	19.1819	19.18
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	820502	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	1004199	54.0755	54.07
	50 Toluene	91	6.982	6.982	(0.853)	483043	21.7058	21.70
	51 trans-1,3-Dichloropropene	75	7.199	7.196	(1.296)	127969	18.9392	18.93
	52 2-Hexanone	43	7.593	7.593	(0.928)	140615	33.7931	33.79
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	90136	19.4661	19.46
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	189945	20.0779	20.07
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	120555	21.9428	21.94
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	130853	24.1338	24.13
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	113167	19.8121	19.81
	58 1-Chlorohexane	55	8.196	8.197	(1.476)	108359	24.5744	24.57
	59 Chlorobenzene	112	8.211	8.208	(1.003)	343904	21.6528	21.65
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	120588	22.0904	22.09
	61 Ethylbenzene	106	8.305	8.305	(1.015)	166909	22.5788	22.57
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	415527	47.5109	47.51
	63 o-Xylene	106	8.748	8.748	(1.069)	197306	22.8361	22.83
	64 Styrene	104	8.763	8.763	(1.071)	318267	23.2116	23.21
	66 Bromoform	173	8.920	8.920	(1.090)	78727	21.2289	21.22
	67 Isopropylbenzene	105	9.062	9.063	(1.107)	504470	24.3088	24.30
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	150749	18.0235	18.02
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	374972	51.2709	51.27
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	444652	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	132865	18.0569	18.05
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	531366	22.7825	22.78
	74 Bromobenzene	156	9.317	9.317	(0.916)	150436	20.0515	20.05
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	365077	22.8160	22.81
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	356168	21.7234	21.72
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	402236	22.1640	22.16
	78 tert-Butylbenzene	119	9.838	9.839	(0.967)	361601	23.0091	23.00
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	366329	21.8806	21.88
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	466858	23.4247	23.42
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	392999	23.5373	23.53
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	263100	20.6474	20.64
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	273435	20.1260	20.12
	87 n-Butylbenzene	91	10.491	10.491	(1.031)	331455	23.1886	23.18
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	255398	19.9903	19.99
	89 1,2-Dibromo-3-Chloropropane	155	11.169	11.166	(1.098)	19629	16.0827	16.08

90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	159082	18.1026	18.10	
91 Hexachlorobutadiene	225	11.998	11.998 (1.179)	76271	21.4915	21.49	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	92 Naphthalene	128	12.069	12.065	(1.186)	331376	16.2337	16.23
	93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	149173	17.3639	17.36
M	94 1,2-Dichloroethylene (total)	96				232835	40.4204	40.42
M	95 Xylenes (total)	106				612833	70.3470	70.34
	135 1,4-Dioxane	88	6.172	6.169	(1.282)	25068	198.391	198.39
	141 Cyclohexane	56	4.781	4.778	(0.993)	171963	22.4061	22.40
	138 Freon TF	101	2.337	2.330	(0.485)	352212	82.4116	82.41
	140 1,3-Butadiene	54	1.404	1.400	(0.292)	122533	20.3322	20.33
	147 Methylcyclohexane	55	5.951	5.947	(1.072)	259256	21.7641	21.76
	146 Methyl Acetate	43	2.716	2.709	(0.564)	94314	17.6019	17.60
	148 Tert-Butyl alcohol	59	2.971	2.967	(0.617)	209346	352.860	352.85
	149 Isopropyl Alcohol	45	2.566	2.559	(0.533)	134735	323.879	323.87
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	15640	16.5549	16.55
	12 Isobutyl Alcohol	43	5.287	5.288	(1.098)	325049	393.140	393.13
	13 Acetonitrile	39	2.671	2.667	(0.555)	138225	200.629	200.62
	14 Allyl Chloride	41	2.675	2.667	(0.555)	303166	18.3500	18.34
	25 Methacrylonitrile	41	4.497	4.493	(0.934)	60031	15.9669	15.96
	40 Methyl Methacrylate	41	6.157	6.157	(1.279)	93451	17.0796	17.07
	4 Propionitrile	54	4.339	4.339	(0.901)	155758	169.385	169.38(a)
	131 Methyl Acrylate	55	4.369	4.369	(0.907)	123273	18.3167	18.31
	49 Ethyl Methacrylate	69	7.293	7.293	(1.313)	142405	18.9181	18.91
	166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	367008	21.4726	21.47
	156 Diisopropyl ether	45	3.623	3.619	(0.752)	334227	18.8361	18.83

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



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Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: PC
Column diameter: 0.18

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InstruID : VOA9.i
LabSampID : HS23061825-03MS

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062914.D Page 1
Report Date: 03-Jul-2023 13:02

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062914.D
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Operator : PC Inst ID: VOA9.i
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Misc Info : V9;WATER;0;1;
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Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 13 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.815	4.815	(1.000)	638913	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.160	(0.241)	103428	17.5726	17.57
3	Chloromethane	50	1.291	1.291	(0.268)	161438	15.8562	15.85
5	Vinyl Chloride	62	1.374	1.370	(0.285)	130625	19.3287	19.32
6	Bromomethane	94	1.614	1.614	(0.335)	80774	22.2603	22.26
7	Chloroethane	64	1.696	1.696	(0.352)	86363	18.9707	18.97
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	181106	23.3331	23.33
9	Acrolein	56	2.262	2.259	(0.470)	9916	29.2400	29.24
10	Acetone	43	2.405	2.405	(0.499)	81944	33.7683	33.76
11	1,1-Dichloroethene	96	2.330	2.326	(0.484)	102653	21.1668	21.16
15	Iodomethane	142	2.465	2.465	(0.512)	169796	51.0694	51.06
16	Acrylonitrile	53	3.061	3.061	(0.636)	114506	48.3271	48.32
17	Methylene Chloride	84	2.791	2.791	(0.580)	120654	20.1055	20.10
18	Methyl tert-butyl ether	73	3.080	3.076	(0.640)	278845	18.7497	18.74
19	Carbon Disulfide	76	2.517	2.517	(0.523)	543783	41.9425	41.94
20	trans-1,2-Dichloroethene	96	3.057	3.053	(0.635)	109004	20.6674	20.66
21	Vinyl Acetate	43	3.604	3.604	(0.749)	606949	37.7517	37.75
22	1,1-Dichloroethane	63	3.511	3.511	(0.729)	187163	18.6731	18.67
24	2-Butanone	43	4.264	4.264	(0.886)	96098	32.9892	32.98
26	2,2-Dichloropropane	77	4.182	4.178	(0.868)	140675	21.4571	21.45

27	cis-1,2-Dichloroethene	96	4.193	4.193 (0.871)	121961	19.3291	19.32
28	Chloroform	83	4.572	4.572 (0.949)	204919	19.6433	19.64

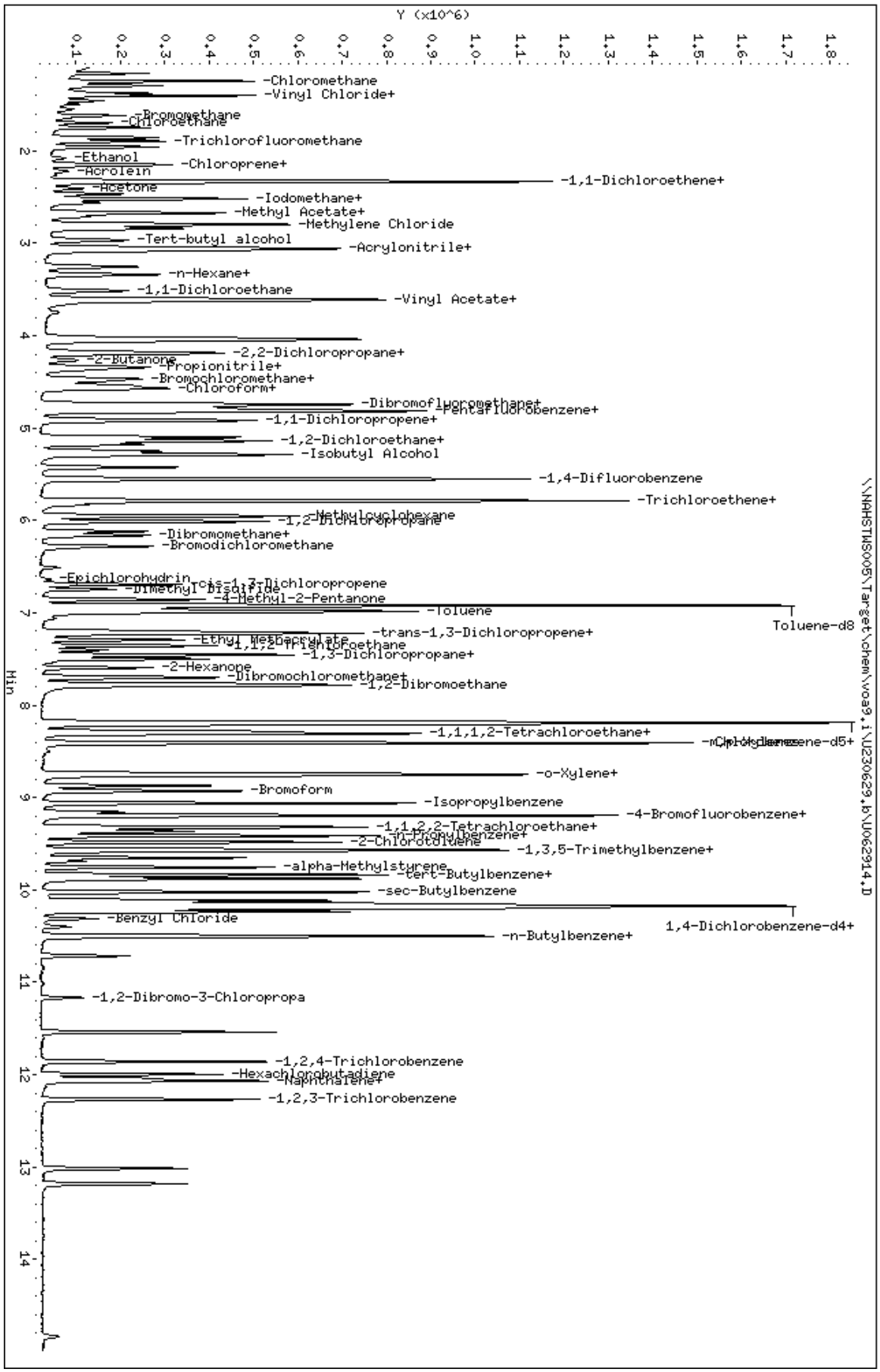
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	29 Bromochloromethane	128	4.467	4.467	(0.928)	65214	18.4770	18.47
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	267431	49.8670	49.86
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	170021	21.3837	21.38
	32 1,1-Dichloropropene	75	4.920	4.920	(0.886)	147073	23.0699	23.06
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	170652	22.6660	22.66
	34 Carbon Tetrachloride	117	4.909	4.909	(0.884)	140860	24.0542	24.05
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	293831	50.6442	50.64
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	869876	50.0000	
	37 Benzene	78	5.138	5.138	(0.925)	439318	20.9588	20.95
	38 Trichloroethene	130	5.786	5.786	(1.042)	432964	71.2652	71.26
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	141594	21.6554	21.65
	42 1,2-Dichloropropane	63	6.007	6.011	(1.082)	114036	20.3759	20.37
	44 Dibromomethane	93	6.120	6.120	(1.102)	72710	20.3332	20.33
	45 4-Methyl-2-Pentanone	43	6.855	6.855	(0.837)	219355	37.1255	37.12
	46 cis-1,3-Dichloropropene	75	6.693	6.690	(1.205)	158579	19.3221	19.32
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	811369	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	1000103	54.4611	54.46
	50 Toluene	91	6.982	6.982	(0.853)	487910	22.1713	22.17
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	133326	19.4213	19.42
	52 2-Hexanone	43	7.593	7.593	(0.928)	145480	35.3558	35.35
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	91162	19.9093	19.90
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	193443	20.6778	20.67
	55 Dibromochloromethane	129	7.690	7.694	(0.940)	117532	21.6334	21.63
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	128590	23.9834	23.98
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	114342	20.2432	20.24
	58 1-Chlorohexane	55	8.197	8.197	(1.476)	108341	24.2552	24.25
	59 Chlorobenzene	112	8.208	8.208	(1.003)	340388	21.6727	21.67
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	118509	21.9539	21.95
	61 Ethylbenzene	106	8.305	8.305	(1.015)	166501	22.7771	22.77
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	410231	47.4333	47.43
	63 o-Xylene	106	8.748	8.748	(1.069)	195372	22.8668	22.86
	64 Styrene	104	8.763	8.763	(1.071)	317425	23.4107	23.41
	66 Bromoform	173	8.920	8.920	(1.090)	78036	21.2794	21.27
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	505085	24.6124	24.61
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	152984	18.9575	18.95
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	365042	50.4609	50.46
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	429013	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	133106	18.7491	18.74
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	536695	23.8499	23.84
	74 Bromobenzene	156	9.317	9.317	(0.916)	151803	20.9713	20.97
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	362921	23.5080	23.50
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	348216	22.0126	22.01
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	394497	22.5300	22.53
	78 tert-Butylbenzene	119	9.838	9.839	(0.967)	363948	24.0026	24.00
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	369405	22.8687	22.86
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	468017	24.3389	24.33
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	393779	24.4438	24.44
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	263888	21.4642	21.46
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	276151	21.0668	21.06
	87 n-Butylbenzene	91	10.491	10.491	(1.031)	331848	24.0624	24.06
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	256344	20.7957	20.79
	89 1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	19870	16.8736	16.87

90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	162185	19.1285	19.12
91 Hexachlorobutadiene	225	11.998	11.998 (1.179)	76940	22.4703	22.47

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	92 Naphthalene	128	12.065	12.065	(1.186)	364514	18.5080	18.50
	93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	155370	18.7445	18.74
M	94 1,2-Dichloroethylene (total)	96				230965	39.9965	39.99
M	95 Xylenes (total)	106				605603	70.3001	70.30
	135 1,4-Dioxane	88	6.172	6.169	(1.282)	28130	221.733	221.73
	141 Cyclohexane	56	4.782	4.778	(0.993)	172576	22.3962	22.39
	138 Freon TF	101	2.334	2.330	(0.485)	347934	81.0848	81.08
	140 1,3-Butadiene	54	1.400	1.400	(0.291)	120388	19.8963	19.89
	147 Methylcyclohexane	55	5.947	5.947	(1.071)	262192	21.7282	21.72
	146 Methyl Acetate	43	2.708	2.709	(0.563)	96406	17.9203	17.92
	148 Tert-Butyl alcohol	59	2.963	2.967	(0.615)	213837	359.073	359.07
	149 Isopropyl Alcohol	45	2.559	2.559	(0.531)	139535	334.075	334.07
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	18228	19.5114	19.51
	12 Isobutyl Alcohol	43	5.288	5.288	(1.098)	312718	376.712	376.71
	13 Acetonitrile	39	2.667	2.667	(0.554)	140742	203.465	203.46
	14 Allyl Chloride	41	2.667	2.667	(0.554)	307916	18.5629	18.56
	25 Methacrylonitrile	41	4.493	4.493	(0.933)	65817	17.4358	17.43
	40 Methyl Methacrylate	41	6.157	6.157	(1.279)	96465	17.5599	17.55
	4 Propionitrile	54	4.339	4.339	(0.901)	158121	171.266	171.26(a)
	131 Methyl Acrylate	55	4.365	4.369	(0.907)	125901	18.6323	18.63
	49 Ethyl Methacrylate	69	7.293	7.293	(1.313)	146721	19.2415	19.24
	166 1,2,3-Trimethylbenzene	105	10.232	10.236	(1.006)	364291	22.0906	22.09
	156 Diisopropyl ether	45	3.619	3.619	(0.752)	336918	18.9118	18.91

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



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Column phase: DB624

Instrument: VOA9,i
Operator: PC
Column diameter: 0.18

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NO MANUAL INTEGRATIONS

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Report Date: 03-Jul-2023 13:02

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Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
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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	4.815	(1.000)	635423	50.0000	
	17 Methylene Chloride	84	2.798	2.791	(0.581)	147619	24.9705	4994.09
	27 cis-1,2-Dichloroethene	96	4.200	4.193	(0.872)	35678	5.68551	1137.10
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	261956	49.1096	49.10
$	35 1,2-Dichloroethane-d4	65	5.100	5.096	(1.059)	295000	51.1314	51.13
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	851989	50.0000	
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	778952	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	956979	54.2815	54.28
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	328532	47.2473	47.24
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	388313	50.0000	
M	94 1,2-Dichloroethylene (total)	96				35678	5.68551	1137.10(a)
	138 Freon TF	101	2.337	2.330	(0.485)	326200	76.4373	15287.45

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01201923

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062916.D

Date : 29-JUN-2023 16:18

Client ID: HS23061712-05

Instrument: VOA9.i

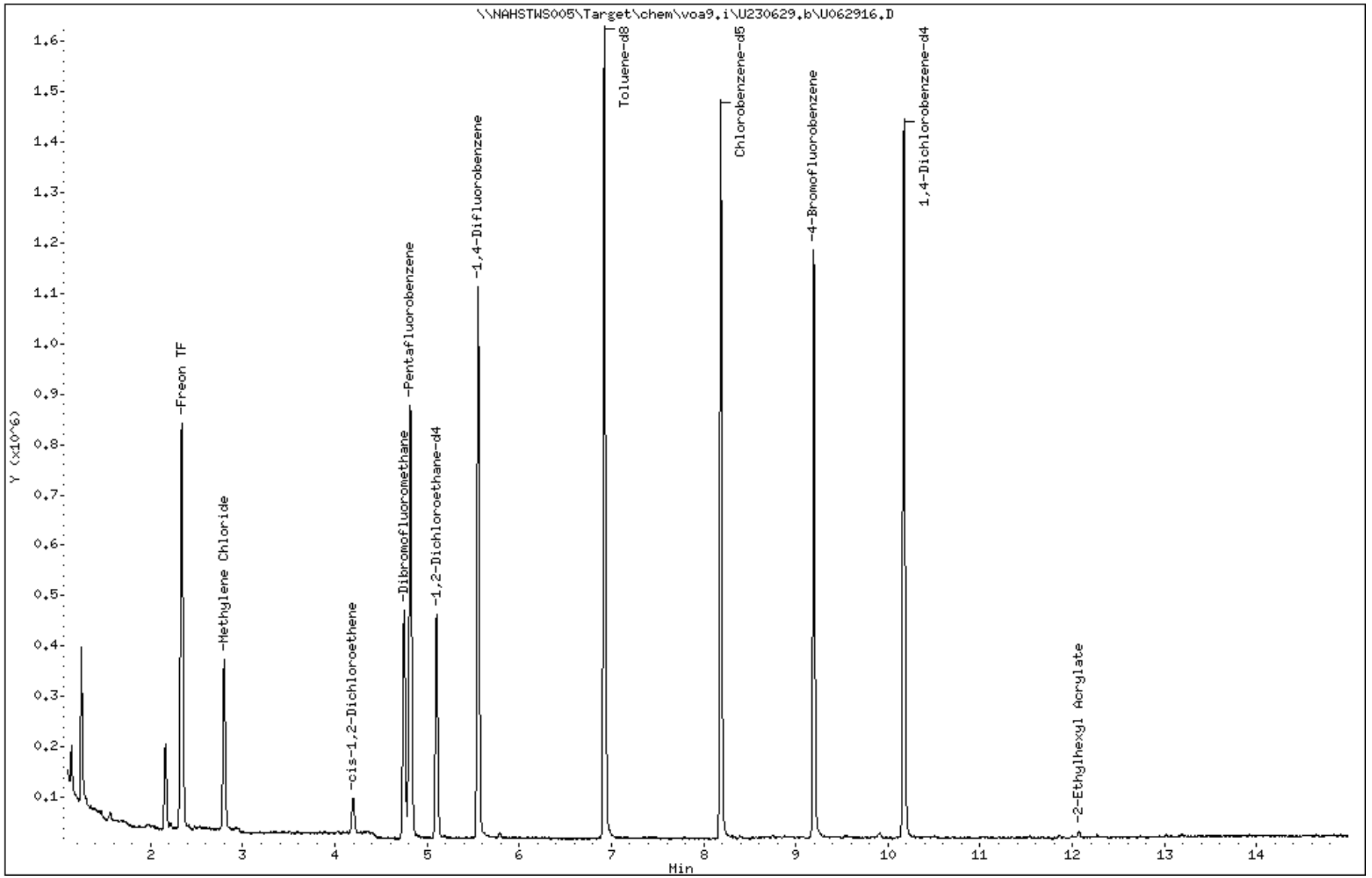
Sample Info: HS23061712-05;HS23061712-05;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Date : 29-JUN-2023 16:18

Client ID: HS23061712-05

Instrument: VOA9.i

Sample Info: HS23061712-05;HS23061712-05;;;

Purge Volume: 5.0

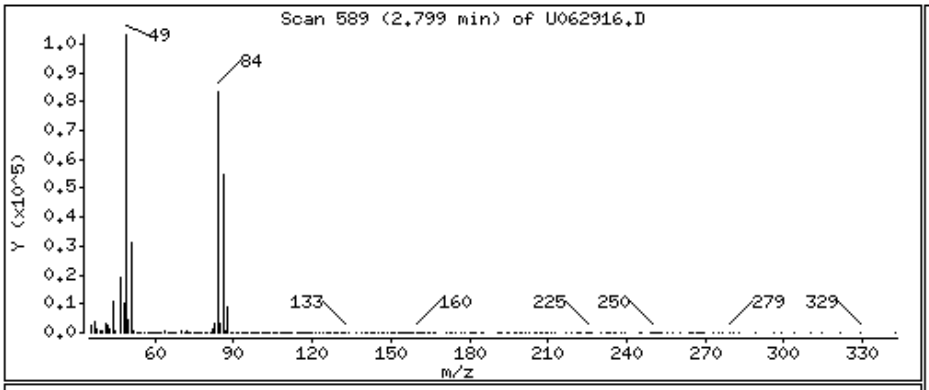
Operator: PC

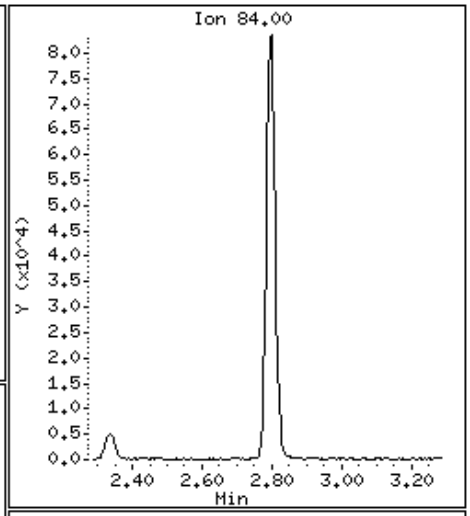
Column phase: DB624

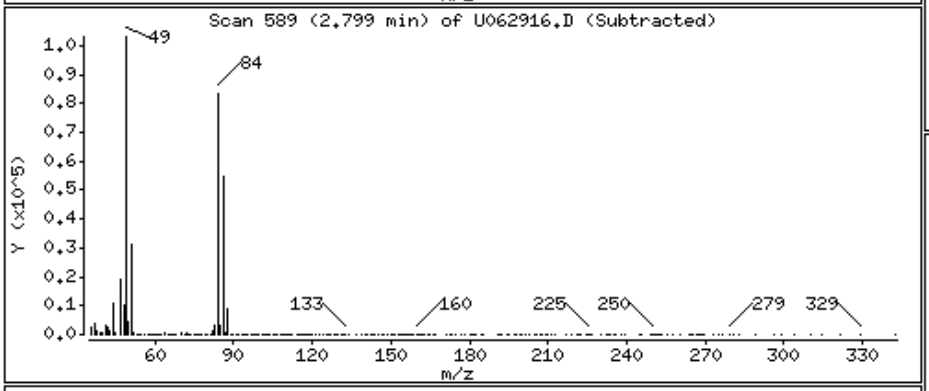
Column diameter: 0.18

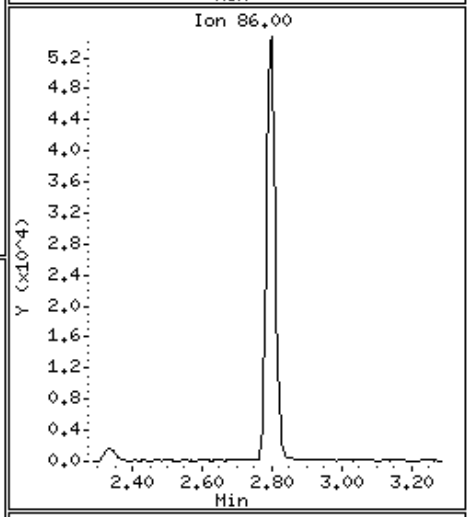
17 Methylene Chloride

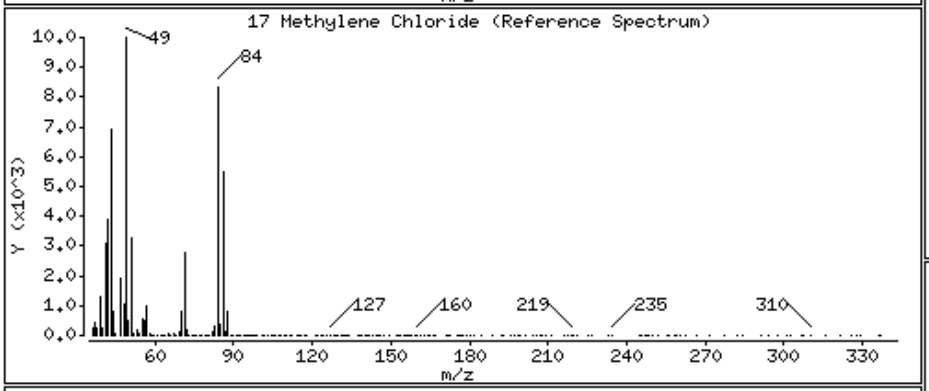
Concentration: 4994.09 ug/l

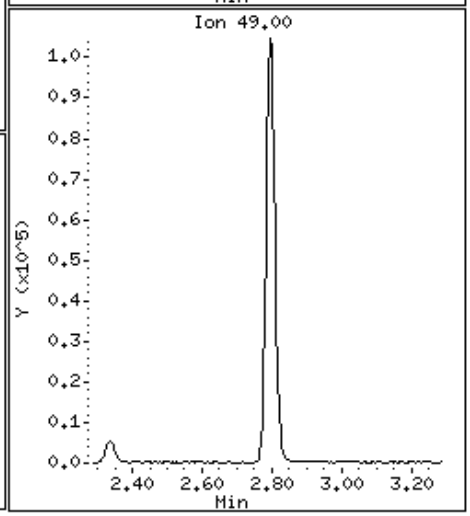


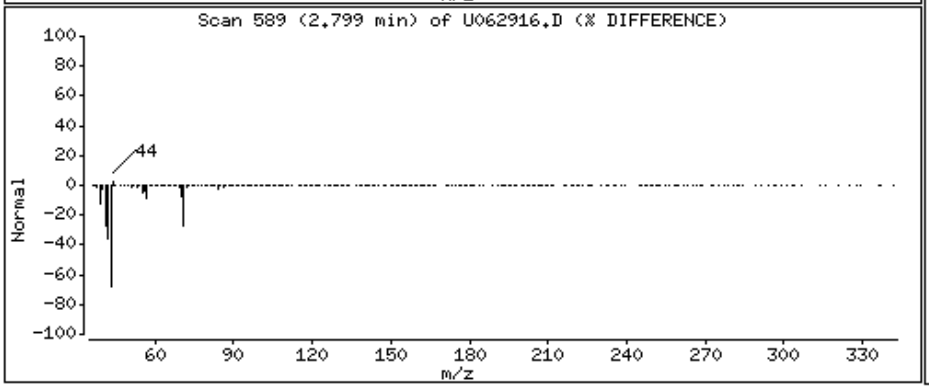












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Date : 29-JUN-2023 16:18

Client ID: HS23061712-05

Instrument: VOA9.i

Sample Info: HS23061712-05;HS23061712-05;;;

Purge Volume: 5.0

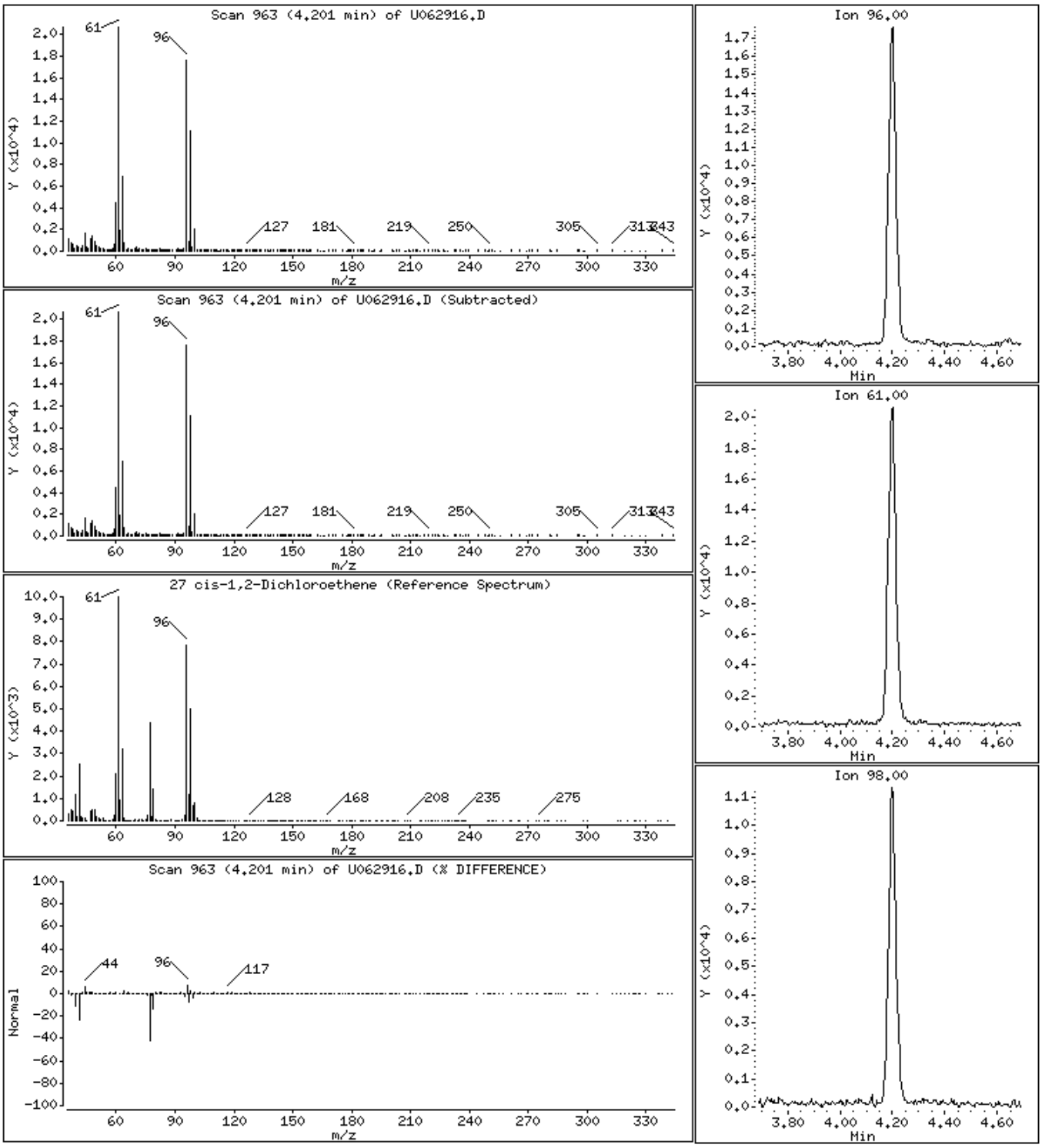
Operator: PC

Column phase: DB624

Column diameter: 0.18

27 cis-1,2-Dichloroethene

Concentration: 1137.10 ug/l



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062916.D Page 4

Date : 29-JUN-2023 16:18

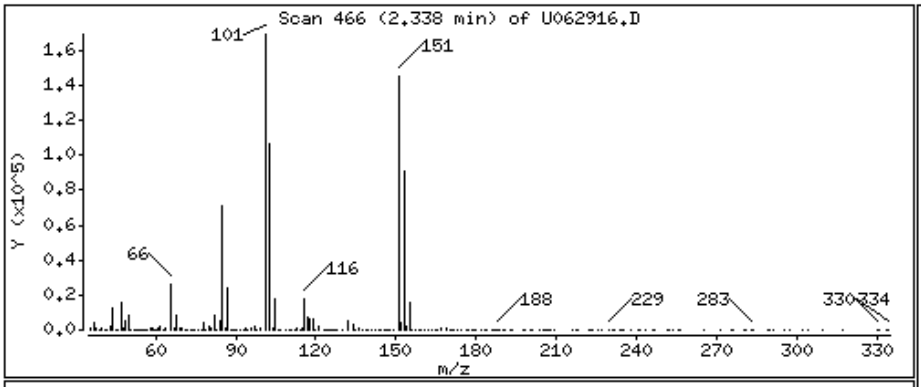
Client ID: HS23061712-05 Instrument: VOA9.i

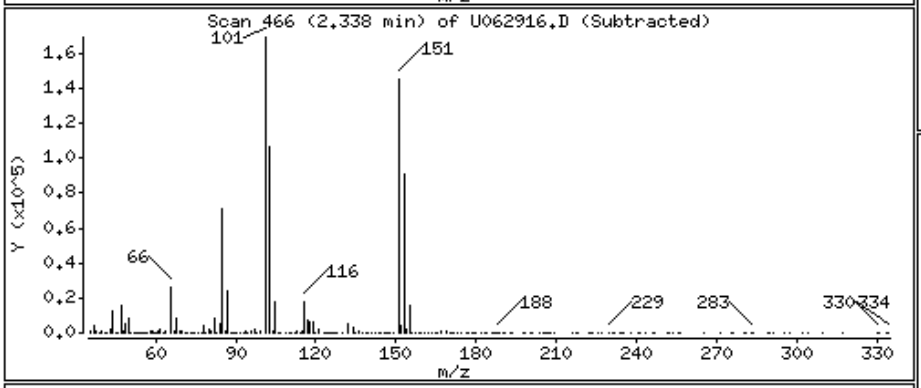
Sample Info: HS23061712-05;HS23061712-05;;;

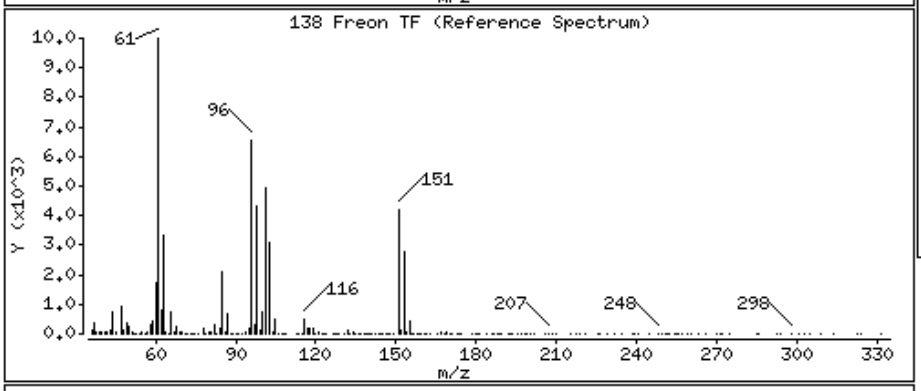
Purge Volume: 5.0 Operator: PC

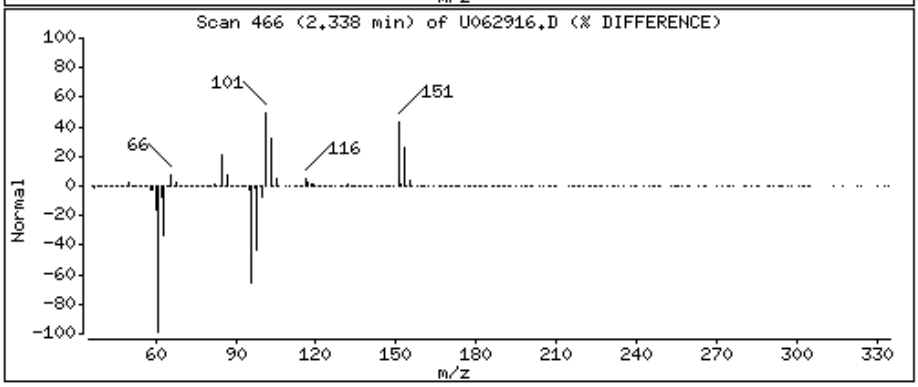
Column phase: DB624 Column diameter: 0.18

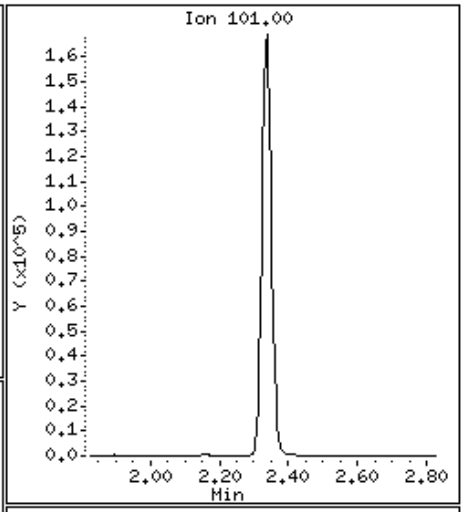
138 Freon TF Concentration: 15287.45 ug/l

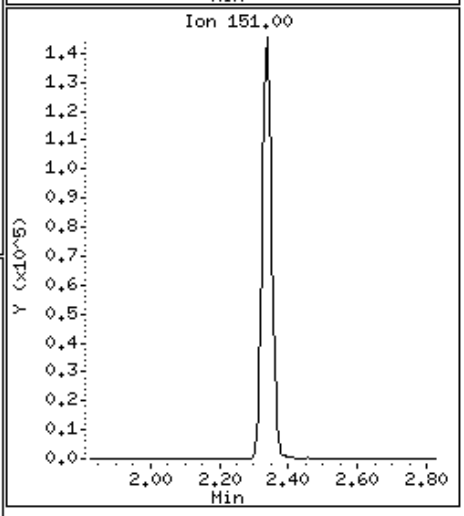












Data File : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062916.D
Inj Date : 29-JUN-2023 16:18
InstruID : VOA9.i
LabSampID : HS23061712-05

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062931.D Page 1
Report Date: 03-Jul-2023 13:03

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062931.D
Lab Smp Id: CCV-END Client Smp ID: CCV-END
Inj Date : 29-JUN-2023 21:53
Operator : PC Inst ID: VOA9.i
Smp Info : CCV-END;CCV-END;2;;;
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\8260C.m
Meth Date : 03-Jul-2023 13:03 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 30 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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)	524037	50.0000	
2	Dichlorodifluoromethane	85	1.164	1.164	(0.242)	167716	50.0000	34.66
3	Chloromethane	50	1.295	1.295	(0.269)	319606	50.0000	40.18
5	Vinyl Chloride	62	1.378	1.378	(0.286)	237639	50.0000	42.87
6	Bromomethane	94	1.618	1.618	(0.336)	158813	50.0000	55.93
7	Chloroethane	64	1.700	1.700	(0.353)	170867	50.0000	45.76
8	Trichlorofluoromethane	101	1.895	1.895	(0.394)	317684	50.0000	49.90
9	Acrolein	56	2.266	2.266	(0.471)	28101	100.000	101.02
10	Acetone	43	2.409	2.409	(0.500)	174276	100.000	96.65
11	1,1-Dichloroethene	96	2.334	2.334	(0.485)	187324	50.0000	47.09
15	Iodomethane	142	2.469	2.469	(0.513)	306261	100.000	98.06
16	Acrylonitrile	53	3.065	3.065	(0.636)	206969	100.000	106.49
17	Methylene Chloride	84	2.795	2.795	(0.580)	244647	50.0000	51.21
18	Methyl tert-butyl ether	73	3.080	3.080	(0.640)	656593	50.0000	53.82
19	Carbon Disulfide	76	2.521	2.521	(0.524)	1131257	100.000	106.38
20	trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	213400	50.0000	49.33
21	Vinyl Acetate	43	3.608	3.608	(0.749)	1283180	100.000	97.30
22	1,1-Dichloroethane	63	3.514	3.514	(0.730)	386529	50.0000	47.01
24	2-Butanone	43	4.268	4.268	(0.886)	219098	100.000	91.70
26	2,2-Dichloropropane	77	4.182	4.182	(0.868)	241818	50.0000	44.53

27 cis-1,2-Dichloroethene	96	4.197	4.197 (0.872)	252313	50.0000	48.75
28 Chloroform	83	4.572	4.572 (0.949)	417678	50.0000	48.81

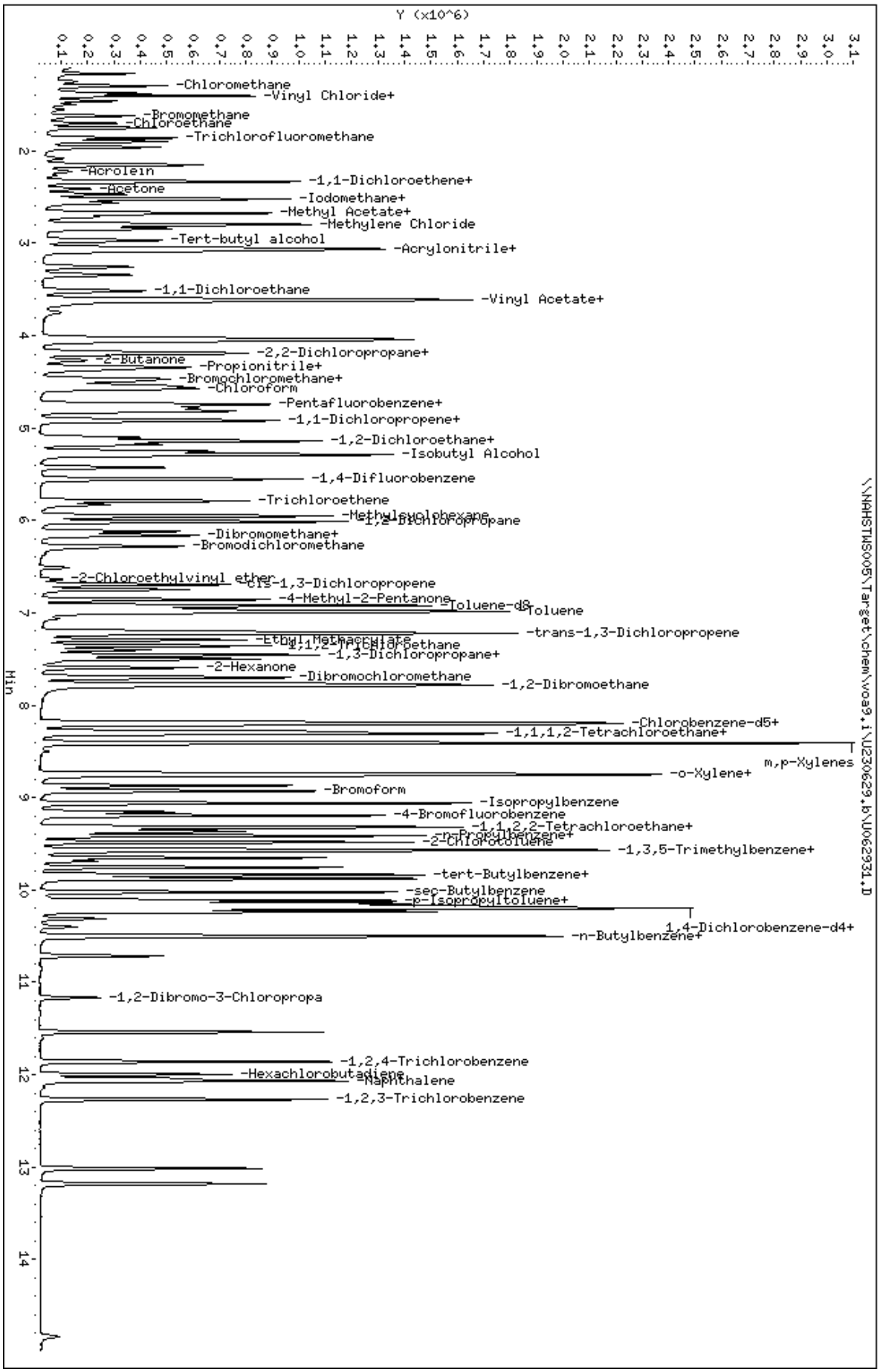
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	29 Bromochloromethane	128	4.470	4.470	(0.928)	137327	50.0000	47.43
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	235230	50.0000	53.50
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	322838	50.0000	49.50
	32 1,1-Dichloropropene	75	4.920	4.920	(0.886)	268616	50.0000	47.90
	33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	344306	50.0000	51.98
	34 Carbon Tetrachloride	117	4.909	4.909	(0.884)	265776	50.0000	51.59
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	252455	50.0000	53.08
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	765169	50.0000	
	37 Benzene	78	5.138	5.138	(0.925)	894587	50.0000	48.51
	38 Trichloroethene	130	5.790	5.790	(1.043)	258958	50.0000	48.45
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	303682	50.0000	52.80
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	3194	100.000	22.95
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	239276	50.0000	48.60
	44 Dibromomethane	93	6.120	6.120	(1.102)	159158	50.0000	50.59
	45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	512108	100.000	93.09
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	349738	50.0000	45.56
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	755426	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	858906	50.0000	50.23
	50 Toluene	91	6.982	6.982	(0.853)	994981	50.0000	48.56
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.296)	294390	50.0000	45.69
	52 2-Hexanone	43	7.593	7.593	(0.928)	328648	100.000	85.78
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	197550	50.0000	46.33
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	422698	50.0000	48.52
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	270748	50.0000	53.52
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	229920	50.0000	46.05
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	256451	50.0000	48.76
	58 1-Chlorohexane	55	8.197	8.197	(1.476)	183034	50.0000	46.58
	59 Chlorobenzene	112	8.208	8.208	(1.003)	704057	50.0000	48.14
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	257662	50.0000	51.26
	61 Ethylbenzene	106	8.305	8.305	(1.015)	331621	50.0000	48.72
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	832180	100.000	103.34
	63 o-Xylene	106	8.748	8.748	(1.069)	411874	50.0000	51.77
	64 Styrene	104	8.763	8.763	(1.071)	678744	50.0000	53.76
	66 Bromoform	173	8.920	8.920	(1.090)	189257	50.0000	55.42
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	962707	50.0000	50.38
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	340622	50.0000	44.86
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	359416	50.0000	53.41
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	403598	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	310620	50.0000	46.50
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	1040395	50.0000	49.14
	74 Bromobenzene	156	9.317	9.317	(0.916)	326001	50.0000	47.87
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	711316	50.0000	48.97
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	711579	50.0000	47.81
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	811147	50.0000	49.24
	78 tert-Butylbenzene	119	9.839	9.839	(0.967)	683420	50.0000	47.91
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	710431	50.0000	46.75
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	849766	50.0000	46.97
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	710091	50.0000	46.85
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	543372	50.0000	46.98
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	558725	50.0000	45.30
	87 n-Butylbenzene	91	10.491	10.491	(1.031)	575869	50.0000	44.38
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	543311	50.0000	46.85

89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169 (1.098)	50761	50.0000	45.82
90	1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	355669	50.0000	44.59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
91	Hexachlorobutadiene	225	11.998	11.998	(1.179)	137360	50.0000	42.64
92	Naphthalene	128	12.065	12.065	(1.186)	838294	50.0000	45.24
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	346540	50.0000	44.44
M 94	1,2-Dichloroethylene (total)	96				465713	100.000	(a)
135	1,4-Dioxane	88	6.169	6.169	(1.281)	67224	1000.00	646.04
141	Cyclohexane	56	4.782	4.782	(0.993)	256988	50.0000	40.13
138	Freon TF	101	2.334	2.334	(0.485)	171535	50.0000	48.73
140	1,3-Butadiene	54	1.404	1.404	(0.292)	209418	50.0000	42.19
147	Methylcyclohexane	55	5.947	5.947	(1.071)	545061	50.0000	51.35
146	Methyl Acetate	43	2.712	2.712	(0.563)	217209	50.0000	49.22
148	Tert-Butyl alcohol	59	2.967	2.967	(0.616)	503805	1000.00	1040.72
149	Isopropyl Alcohol	45	2.562	2.562	(0.532)	328558	1000.00	959.07
72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	46125	50.0000	53.02
12	Isobutyl Alcohol	43	5.288	5.288	(1.098)	719732	1000.00	1057.07
13	Acetonitrile	39	2.671	2.671	(0.555)	287501	500.000	506.74
14	Allyl Chloride	41	2.671	2.671	(0.555)	670357	50.0000	49.27
25	Methacrylonitrile	41	4.497	4.497	(0.934)	155514	50.0000	50.22
40	Methyl Methacrylate	41	6.157	6.157	(1.279)	233766	50.0000	51.88
4	Propionitrile	54	4.339	4.339	(0.901)	379739	500.000	501.47
131	Methyl Acrylate	55	4.369	4.369	(0.907)	303095	50.0000	54.68
49	Ethyl Methacrylate	69	7.293	7.293	(1.313)	350878	50.0000	52.31
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	783156	50.0000	50.48
156	Diisopropyl ether	45	3.623	3.623	(0.752)	777178	50.0000	53.18

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa9,i\U230629,b\U062931,D
Date : 29-JUN-2023 21:53
Client ID: CCV-END
Sample Info: CCV-END;CCV-END;2;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062931.D
Inj Date : 29-JUN-2023 21:53
InstruID : VOA9.i
LabSampID : CCV-END

NO MANUAL INTEGRATIONS

HS23061712-MSSEMI-SW8270SIM

ALS WO# HS23061712

01201936

right solutions.
right partner.

Form 1

Organic Analysis Data Sheet

Semi-Volatiles by EPA 8270SIM

Workorder

HS23061712

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site18/24	**HS23061712**	

Semi-Volatiles by EPA 8270SIM

HS23061712-01	Collected	Received	Matrix	Basis
1824DPTMW05_062223	06/22/23 10:30	06/24/23 09:05	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	8.8		1.0	1.0	1.0	100	06/29/23 16:06	SV-6_440304	20.D	196799

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061712

Semi-Volatiles by EPA 8270SIM

HS23061712-02

18CPTMW10SW_062223

Collected	Received	Matrix	Basis
06/22/23 13:35	06/24/23 09:05	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	0.037		0.010	0.010	0.010	1	06/29/23 14:27	SV-6_440304	16.D	196799

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061712**

Semi-Volatiles by EPA 8270SIM

HS23061712-05

18CPTMW01SW_062223

Collected	Received	Matrix	Basis
06/23/23 11:40	06/24/23 09:05	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	0.044		0.010	0.010	0.010	1	06/29/23 14:45	SV-6_440304	17.D	196799

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site18/24	**HS23061712**	

Semi-Volatiles by EPA 8270SIM

HS23061712-06	Collected	Received	Matrix	Basis
18CPTMW01DW_062323	06/23/23 10:20	06/24/23 09:05	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	0.027		0.010	0.010	0.010	1	06/29/23 15:03	SV-6_440304	18.D	196799

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061712**

Semi-Volatiles by EPA 8270SIM

HS23061712-07

MW2_062323

Collected	Received	Matrix	Basis
06/23/23 09:10	06/24/23 09:05	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	1.4		0.10	0.10	0.10	10	06/29/23 16:24	SV-6_440304	21.D	196799

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061712

Semi-Volatiles by EPA 8270SIM

MBLK-196799

MBLK-196799

Collected	Received	Matrix	Basis
NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	0.030	U	0.010	0.030	0.030	1	06/29/23 11:25	SV-6_440304	06.D	196799

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Form 2

System Monitoring Compound Recovery

Semi-Volatiles by EPA 8270SIM

Workorder

HS23061712

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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 Site18/24

Workorder: HS23061712

RunID: SV-6-440304

Semi-Volatiles by EPA 8270SIM

HS23061712-01	Analyzed	Conc Units	Dilution
1824DPTMW05_062223	06/29/23	%REC	100

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0	0.08	0		40-140
4-Terphenyl-d14	0	0.08	0		40-140
Nitrobenzene-d5	0	0.08	0		40-140

HS23061712-02	Analyzed	Conc Units	Dilution
18CPTMW10SW_062223	06/29/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0.088	0.08	110		40-140
4-Terphenyl-d14	0.091	0.08	113		40-140
Nitrobenzene-d5	0.088	0.08	110		40-140

HS23061712-05	Analyzed	Conc Units	Dilution
18CPTMW01SW_062223	06/29/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0.088	0.08	110		40-140
4-Terphenyl-d14	0.084	0.08	105		40-140
Nitrobenzene-d5	0.09	0.08	112		40-140

HS23061712-06	Analyzed	Conc Units	Dilution
18CPTMW01DW_062323	06/29/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0.087	0.08	109		40-140
4-Terphenyl-d14	0.089	0.08	111		40-140
Nitrobenzene-d5	0.089	0.08	112		40-140

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP Site18/24

Workorder: HS23061712

RunID: SV-6-440304

Semi-Volatiles by EPA 8270SIM

HS23061712-07	Analyzed	Conc Units	Dilution
MW2_062323	06/29/23	%REC	10

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0.089	0.08	112		40-140
4-Terphenyl-d14	0.086	0.08	107		40-140
Nitrobenzene-d5	0.1	0.08	124		40-140

LCS1-196799	Analyzed	Conc Units	Dilution
LCS1-196799	06/29/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0.0897	0.08	112		40-140
4-Terphenyl-d14	0.09058	0.08	113		40-140
Nitrobenzene-d5	0.09084	0.08	114		40-140

LCSD1-196799	Analyzed	Conc Units	Dilution
LCSD1-196799	06/29/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0.09409	0.08	118		40-140
4-Terphenyl-d14	0.0909	0.08	114		40-140
Nitrobenzene-d5	0.089	0.08	111		40-140

MBLK-196799	Analyzed	Conc Units	Dilution
MBLK-196799	06/29/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0.09294	0.08	116		40-140
4-Terphenyl-d14	0.09052	0.08	113		40-140
Nitrobenzene-d5	0.09184	0.08	115		40-140

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Form 3B

Laboratory Control Sample Recovery

Semi-Volatiles by EPA 8270SIM

Workorder

HS23061712

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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 Site18/24

Workorder
HS23061712

SAMPLENUM
LCS1-196799

Semi-Volatiles by EPA 8270SIM

SV-6_440304				LCS1-196799			LCSD1-196799					
Spike Matrix	Aqueous		Run Date	06/29/23			06/29/23					
Result Units	ug/L		Run Time	11:43			12:01					
Prep Method	SW3510		Data File	07.D			08.D					
Prep Date	06/27/23	Prep Batch 196799	Prep Amt	1000 mL			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	0.07214	90		0.08194	102.0		20	12.7	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3B - Laboratory Control Sample Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP Site18/24

Workorder: HS23061712

SAMPLENUM: LCSD1-196799

Semi-Volatiles by EPA 8270SIM

SV-6_440304				LCSD1-196799		
Spike Matrix	Aqueous		Run Date	06/29/23		
Result Units	ug/L		Run Time	12:01		
Prep Method	SW3510		Data File	08.D		
Prep Date	06/27/23	Prep Batch 196799	Prep Amt	1000 mL		

Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q
1,4-Dioxane	40-140	0.08	0.08194	102	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

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Form 4

Method Blank Summary

Semi-Volatiles by EPA 8270SIM

Workorder

HS23061712

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

ALS Environmental–Houston Laboratory
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www.alsglobal.com

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061712

Semi-Volatiles by EPA 8270SIM

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	MBLK-196799	06.D	06/29/23 11:25	SV-6_440304
LCS1-196799	LCS	LCS1-196799	07.D	06/29/23 11:43	SV-6_440304
LCSD1-196799	LCSD	LCSD1-196799	08.D	06/29/23 12:01	SV-6_440304
18CPTMW10SW_062223	SAMP	HS23061712-02	16.D	06/29/23 14:27	SV-6_440304
18CPTMW01SW_062223	SAMP	HS23061712-05	17.D	06/29/23 14:45	SV-6_440304
18CPTMW01DW_062323	SAMP	HS23061712-06	18.D	06/29/23 15:03	SV-6_440304
1824DPTMW05_062223	SAMP	HS23061712-01	20.D	06/29/23 16:06	SV-6_440304
MW2_062323	SAMP	HS23061712-07	21.D	06/29/23 16:24	SV-6_440304

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Form 5

Instrument Performance Check

Semi-Volatiles by EPA 8270SIM

Workorder

HS23061712

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

ALS Environmental–Houston Laboratory
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www.alsglobal.com

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061712

RunID
SV-6-439923

Semi-Volatiles by EPA 8270SIM

Tune File 01.D 06/16/23 6/16/2023

This check applies to the following analyses

m / e	Ion Abundance Criterion	%RA
51	30.0 - 80.0% of mass 198	40.3 (40.3)
68	Less than 2.0% of mass 69	0.5 (1.44) 1
69	Mass 69 RA	32.2 (32.2)
70	Less than 2.0% of mass 69	0.2 (0.502) 1
127	25.0 - 75.0% of mass 198	38.5 (38.5)
197	Less than 1.0% of mass 198	0.5 (0.46)
198	Base peak, 100% RA	100 (83.3)
199	5.0 - 9.0% of mass 198	6.5 (6.46)
275	10.0 - 30.0% of mass 198	25.8 (25.8)
365	Greater than 0.75% of mass 198	3.4 (3.43)
441	Present, but less than mass 443	17.7 (76.4)
442	40.0 - 110.0% of mass 198	120.1 (120)
443	15.0 - 24.0% of mass 442	23.2 (19.3) 2

%RA - Percent Relative Abundance

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	14DXICAL-	ICAL1	6/16/2023	04	14DXICAL-0.01
2	14DXICAL-	ICAL2	6/16/2023	05	14DXICAL-0.03
3	14DXICAL-	ICAL3	6/16/2023	06	14DXICAL-0.05
4	14DXICAL-	ICAL4	6/16/2023	07	14DXICAL-0.08
5	14DXICAL-	ICAL6	6/16/2023	09	14DXICAL-0.15
6	14DXICAL-0.1	ICAL5	6/16/2023	12	14DXICAL-0.1
7	14DXICAL-0.5	ICAL8	6/16/2023	14	14DXICAL-0.5
8	14DXICAL-0.2	ICAL7	6/16/2023	15	14DXICAL-0.2
9	14DXICV-0.08	ICV	6/16/2023	16	14DXICV-0.08

Form 5 - Instrument Performance Check

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site18/24	**HS23061712**	

RunID

Semi-Volatiles by EPA 8270SIM

SV-6-439923

Tune File	01.D	06/16/23 6/16/2023	This check applies to the following analyses

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061712

RunID
SV-6-440304

Semi-Volatiles by EPA 8270SIM

Tune File 01.D 06/29/23 6/29/2023

m / e	Ion Abundance Criterion	%RA
51	30.0 - 80.0% of mass 198	42.5 (42.46)
68	Less than 2.0% of mass 69	0.6 (1.56) 1
69	Mass 69 RA	36.4 (36.35)
70	Less than 2.0% of mass 69	0.1 (0.36) 1
127	25.0 - 75.0% of mass 198	42.4 (42.43)
197	Less than 1.0% of mass 198	1.4 (1.38)
198	Base peak, 100% RA	100 (88.16)
199	5.0 - 9.0% of mass 198	6.5 (6.51)
275	10.0 - 30.0% of mass 198	24.7 (24.69)
365	Greater than 0.75% of mass 198	3.7 (3.65)
441	Present, but less than mass 443	16.5 (73.96)
442	40.0 - 110.0% of mass 198	113.4 (113.43)
443	15.0 - 24.0% of mass 442	22.4 (19.72) 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	6/29/2023	03	14DX-0.08
2	MBLK-196799	MBLK	6/29/2023	06	MBLK-196799
3	LCS1-196799	LCS	6/29/2023	07	LCS1-196799
4	LCSD1-	LCSD	6/29/2023	08	LCSD1-196799
5	HS23061712-	SAMP	6/29/2023	16	18CPTMW10SW_062223
6	HS23061712-	SAMP	6/29/2023	17	18CPTMW01SW_062223
7	HS23061712-	SAMP	6/29/2023	18	18CPTMW01DW_062323
8	HS23061712-	SAMP	6/29/2023	20	1824DPTMW05_062223
9	HS23061712-	SAMP	6/29/2023	21	MW2_062323
10	14DXCCV-	CCV	6/29/2023	22	14DXCCV-END

Form 5 - Instrument Performance Check

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site18/24	**HS23061712**	

Semi-Volatiles by EPA 8270SIM

RunID: SV-6-440304

Tune File	01.D	06/29/23 6/29/2023	This check applies to the following analyses

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Form 6

Initial Calibration Data

Semi-Volatiles by EPA 8270SIM

Workorder

HS23061712

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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

Initial Calibration Data

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061712

RunID SV-6_439923

Semi-Volatiles by EPA 8270SIM

ICAL Start Date 10-MAR-2022 1025
ICAL End Date 16-JUN-2023 1556

Calibration Files

Calibration file names

Level 1..target\chem\sv6.i\230616.b\04.d
Level 2..target\chem\sv6.i\230616.b\05.d
Level 3..target\chem\sv6.i\230616.b\06.d
Level 4..target\chem\sv6.i\230616.b\07.d
Level 5..target\chem\sv6.i\230616.b\12.d
Level 6..target\chem\sv6.i\230616.b\09.d
Level 7..target\chem\sv6.i\230616.b\15.d
Level 8..target\chem\sv6.i\230616.b\14.d

Compound	0.20000 Level 7 0.01000 Level 1	0.50000 Level 8 0.03000 Level 2	0.05000 Level 3	0.08000 Level 4	0.10000 Level 5	0.15000 Level 6	RRF	%RSD	Q
1,4-Dioxane	0.30124 0.40150	0.32659 0.31193	0.32643	0.34940	0.35892	0.33837	0.33930	9.241	
2-Fluorophenol	0.40150 NE NE	0.31193 NE NE	NE	NE	NE	NE	0.33930 NE	9.241 NE	
13 Phenol-d6	NE NE	NE NE	NE	NE	NE	NE	NE	NE	
33 Nitrobenzene-d5	0.28832 0.34832	0.28035 0.27609	0.30204	0.32108	0.30808	0.30634	0.30383	7.735	
69 2-Fluorobiphenyl	0.98985 1.25227	0.97067 0.94386	0.97876	1.06873	0.97017	1.00640	1.02259	9.764	
105 2,4,6-Tribromophenol	NE NE	NE NE	NE	NE	NE	NE	NE	NE	
158 4-Terphenyl-d14	0.60104 1.00267	0.68127 0.75942	0.64541	0.74244	0.75380	0.71602	0.73776	16.347	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

01201958

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Form 6I

Initial Calibration Verification (ICV)

Semi-Volatiles by EPA 8270SIM

Workorder

HS23061712

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061712

RunID SV-6_439923

Semi-Volatiles by EPA 8270SIM

Sample Matrix LIQUID
Lab Smp Id 14DXICV-0.08
Level LOW
Fraction SV
Client Smp ID 14DXICV-0.08
Operator LG

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
1,4-Dioxane	0.08000	0.07070	88.38	40-140	
Nitrobenzene-d5	0.08000	0.07086	88.57	40-140	
2-Fluorobiphenyl	0.08000	0.08036	100.45	40-140	
4-Terphenyl-d14	0.08000	0.08379	104.74	40-140	

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Form 7

Continuing Calibration Verification (CCV)

Semi-Volatiles by EPA 8270SIM

Workorder

HS23061712

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

ALS Environmental–Houston Laboratory
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Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061712

RunID
SV-6_440304

Semi-Volatiles by EPA 8270SIM

Instrument ID SV6.I
Lab File ID 03.D
Analysis Type WATER
Lab Sample ID 14DX-0.08

Injection Date :12
ICAL Date(s) 10-MAR-2022 16-JUN-2023
ICAL Times :25 15:56
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF0.080	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
33 Nitrobenzene-d5	0.30383	0.28756	0.010	-5.35563	20.0	Averaged	
69 2-Fluorobiphenyl	1.02259	1.08931	0.010	6.52495	20.0	Averaged	
158 4-Terphenyl-d14	0.73776	0.75647	0.010	2.53611	20.0	Averaged	
1,4-Dioxane	0.33930	0.30305	0.010	-10.68255	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061712

RunID
SV-6_440304

Semi-Volatiles by EPA 8270SIM

Instrument ID SV6.I
Lab File ID 22.D
Analysis Type WATER
Lab Sample ID 14DXCCV-END Quant Type

Injection Date :42
ICAL Date(s) 10-MAR-2022 16-JUN-2023
ICAL Times :25 15:56
ISTD

Compound	$\overline{RRF}$ / Conc	RF0.080	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
33 Nitrobenzene-d5	0.30383	0.27489	0.010	-9.52554	50.0	Averaged	
69 2-Fluorobiphenyl	1.02259	1.01318	0.010	-0.92010	50.0	Averaged	
158 4-Terphenyl-d14	0.73776	0.76979	0.010	4.34132	50.0	Averaged	
1,4-Dioxane	0.33930	0.33410	0.010	-1.53344	50.0	Averaged	

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Form 12

Preparation Log

Semi-VolatilesEPA 3510

Workorder

HS23061712

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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Form 12 - Preparation Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061712

RunID
196799

Semi-VolatilesEPA 3510

Prep Batch 196799 **Prep Date** 06/27/23

	Matrix	Type	Client Sample ID	Lab Sample ID	Initial Amt (mL)	Final Amt (mL)
1	Aqueous	MBLK	MBLK-196799	MBLK-196799	1000	1
2	Aqueous	LCS	LCS1-196799	LCS1-196799	1000	1
3	Aqueous	LCSD	LCSD1-196799	LCSD1-196799	1000	1
4	Water	SAMP	1824DPTMW05_062223	HS23061712-01	1000	1
5	Water	SAMP	18CPTMW10SW_062223	HS23061712-02	1000	1
6	Water	SAMP	18CPTMW01SW_062223	HS23061712-05	1000	1
7	Water	SAMP	18CPTMW01DW_062323	HS23061712-06	1000	1
8	Water	SAMP	MW2_062323	HS23061712-07	1000	1

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Analysis Run Log

Semi-Volatiles by EPA 8270SIM

Workorder

HS23061712

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

ALS Environmental–Houston Laboratory

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Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061712

RunID
SV-6-439923

Semi-Volatiles by EPA 8270SIM

Run ID SV-6_439923 **Start Date** 06/16/23 **EndDate** 06/16/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
09:28	DFTPP	TUNE	DFTPP	01.D	06/16/23	1
11:08	14DXICAL-0.01	ICAL1	14DXICAL-0.01	04.D	06/16/23	1
11:26	14DXICAL-0.03	ICAL2	14DXICAL-0.03	05.D	06/16/23	1
11:44	14DXICAL-0.05	ICAL3	14DXICAL-0.05	06.D	06/16/23	1
12:02	14DXICAL-0.08	ICAL4	14DXICAL-0.08	07.D	06/16/23	1
12:38	14DXICAL-0.15	ICAL6	14DXICAL-0.15	09.D	06/16/23	1
14:15	14DXICAL-0.1	ICAL5	14DXICAL-0.1	12.D	06/16/23	1
14:51	14DXICAL-0.5	ICAL8	14DXICAL-0.5	14.D	06/16/23	1
15:56	14DXICAL-0.2	ICAL7	14DXICAL-0.2	15.D	06/16/23	1
16:22	14DXICV-0.08	ICV	14DXICV-0.08	16.D	06/16/23	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061712

RunID
SV-6-440304

Semi-Volatiles by EPA 8270SIM

Run ID SV-6_440304 **Start Date** 06/29/23 **EndDate** 07/03/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
09:23	DFTPP	TUNE	DFTPP	01.D	06/29/23	1
10:12	14DX-0.08	CCV	14DX-0.08	03.D	06/29/23	1
11:25	MBLK-196799	MBLK	MBLK-196799	06.D	06/29/23	1
11:43	LCS1-196799	LCS	LCS1-196799	07.D	06/29/23	1
12:01	LCSD1-196799	LCSD	LCSD1-196799	08.D	06/29/23	1
12:20	HS23061557-01	SAMP	ZZZZZZZZZZ	09.D	06/29/23	1
12:38	HS23061557-03	SAMP	ZZZZZZZZZZ	10.D	06/29/23	1
12:56	HS23061557-04	SAMP	ZZZZZZZZZZ	11.D	06/29/23	1
13:14	HS23061557-05	SAMP	ZZZZZZZZZZ	12.D	06/29/23	1
13:32	HS23061557-06	SAMP	ZZZZZZZZZZ	13.D	06/29/23	1
13:50	HS23061557-07	SAMP	ZZZZZZZZZZ	14.D	06/29/23	1
14:56	HS23061596-01	SAMP	ZZZZZZZZZZ	14.D	07/03/23	1
15:14	HS23061596-02	SAMP	ZZZZZZZZZZ	15.D	07/03/23	1
14:27	HS23061712-02	SAMP	18CPTMW10SW_0622	16.D	06/29/23	1
15:32	HS23061596-03	SAMP	ZZZZZZZZZZ	16.D	07/03/23	1
14:45	HS23061712-05	SAMP	18CPTMW01SW_0622	17.D	06/29/23	1
15:50	HS23061596-04	SAMP	ZZZZZZZZZZ	17.D	07/03/23	1
15:03	HS23061712-06	SAMP	18CPTMW01DW_0623	18.D	06/29/23	1
16:08	HS23061695-01	SAMP	ZZZZZZZZZZ	18.D	07/03/23	1
16:26	HS23061697-01	SAMP	ZZZZZZZZZZ	19.D	07/03/23	1
16:06	HS23061712-01	SAMP	1824DPTMW05_06222	20.D	06/29/23	100
16:24	HS23061712-07	SAMP	MW2_062323	21.D	06/29/23	10
16:42	14DXCCV-END	CCV	14DXCCV-END	22.D	06/29/23	1

01201968

right solutions.
right partner.

Raw Data SV 6 439923

Semi-Volatiles by EPA 8270SIM

Workorder

HS23061712

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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\230616.b\01.D Page 1
Report Date: 16-Jun-2023 09:41

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\SV6.i\230616.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 16-JUN-2023 09:28
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230616.b\DFTPP.m
Meth Date : 14-Mar-2023 15:59 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: NAHSTW7015

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		
5.009	6.357	-1.348	198	573312			0.00- 100.00	83.28
5.009	6.357	-1.348	51	231176			10.00- 80.00	40.32
5.009	6.357	-1.348	68	2654			0.00- 2.00	1.44
5.009	6.357	-1.348	69	184729			0.00- 0.00	32.22
5.009	6.357	-1.348	70	927			0.00- 2.00	0.50
5.009	6.357	-1.348	127	220864			10.00- 80.00	38.52
5.009	6.357	-1.348	197	2637			0.00- 2.00	0.46
5.009	6.357	-1.348	199	37040			5.00- 9.00	6.46
5.009	6.357	-1.348	275	147776			10.00- 60.00	25.78
5.009	6.357	-1.348	365	19688			1.00- 100.00	3.43
5.009	6.357	-1.348	441	101568			0.01- 99.99	76.45
5.009	6.357	-1.348	442	688448			50.00- 150.00	120.08
5.009	6.357	-1.348	443	132864			15.00- 24.00	19.30

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	40.32
68	Less than 2.00% of mass 69	0.46 (1.44)
69	Mass 69 relative abundance	32.22
70	Less than 2.00% of mass 69	0.16 (0.50)
127	10.00 - 80.00% of mass 198	38.52
197	Less than 2.00% of mass 198	0.46
199	5.00 - 9.00% of mass 198	6.46
275	10.00 - 60.00% of mass 198	25.78
365	1.00 - 100.00% of mass 198	3.43
441	Present, but less than mass 443	17.72
442	50.00 - 150.00% of mass 198	120.08
443	15.00 - 24.00% of mass 442	23.17 (19.30)

Data File: 01.D
Spectrum: HP ChemStation MS 01.D, Scan 453: 5.010 min. (SUB)
Location of Maximum: 442.10
Number of points: 316

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.10	691	128.10	16159	209.00	1513	297.00	5492
38.00	1909	129.00	84336	210.10	2201	298.00	365
39.10	12523	130.00	6769	211.00	6102	301.00	640
40.00	181	131.00	1444	213.00	401	302.00	602
40.90	276	132.10	794	214.00	192	303.10	4693
45.00	312	133.10	248	215.00	1503	304.00	1179
49.00	1051	134.00	2156	216.00	2932	304.90	175
50.10	53200	135.00	6519	217.00	39448	308.00	557
51.10	231168	136.00	2427	218.00	4584	309.00	385
52.10	12049	137.10	3257	219.00	408	310.00	461
53.00	444	138.10	689	221.10	31488	311.10	249
55.00	841	139.00	436	221.70	5812	311.90	184
56.00	6699	140.00	864	223.00	9377	312.90	383
57.00	16176	141.00	10733	224.10	87680	314.00	1739
58.00	734	142.00	3754	225.10	21984	315.00	3954
61.00	2603	143.00	2343	226.00	2230	316.10	2781
62.00	2746	144.00	787	227.00	33024	317.00	633
63.00	8959	145.00	657	228.00	4457	319.90	232
64.00	1134	146.10	1823	229.00	7608	321.00	1268
65.10	3754	147.00	5380	230.00	950	322.00	605
66.20	170	148.00	12478	231.00	3201	323.10	14516
66.90	176	149.00	2115	232.00	487	324.00	2985
68.00	2654	150.00	633	233.00	674	325.00	302
69.00	184704	151.60	2531	234.00	1838	326.00	247
70.00	927	152.00	808	235.00	2392	327.00	2521
71.10	180	153.00	3358	236.00	1374	328.00	1205
73.00	1217	154.00	2616	237.00	2292	329.00	338
74.00	17520	155.00	6177	238.00	338	332.00	1141
75.00	28192	156.10	9411	239.00	1122	333.00	1368
76.10	9960	157.00	2001	240.00	936	334.10	8776
77.10	218880	158.00	2113	241.00	1871	335.00	2203
78.10	13466	159.00	1675	242.00	4359	336.00	187
79.00	12046	160.10	3244	243.10	4502	339.10	380
80.00	9791	161.00	5606	244.10	67632	339.90	281
81.00	14216	162.00	1730	245.10	8922	341.00	1623
82.00	3653	163.00	400	246.00	11263	342.10	476
83.00	3381	164.00	727	247.00	2407	346.00	2738
84.00	184	165.00	4330	248.10	663	347.00	596
85.00	2227	166.00	3419	249.00	2399	350.90	220
86.00	3237	167.00	24512	250.00	534	352.10	4359
87.00	1991	168.00	9507	251.00	626	353.00	3284
88.00	676	169.10	1791	252.00	592	354.10	4838
89.00	341	170.00	842	253.00	1532	355.00	896
91.00	2912	170.90	1000	254.00	2136	359.00	467
92.00	3110	172.00	2269	255.00	354304	365.00	19688

93.00	21304	173.10	2549	256.00	51136	366.00	2752
94.00	1218	174.00	5175	257.00	3611	370.10	513
95.00	484	175.00	9799	258.00	18768	371.00	1054
96.00	924	176.00	2683	259.00	3038	372.00	8081
97.10	374	177.00	3904	260.00	415	373.10	1766
98.00	16345	178.00	1303	261.00	547	374.00	321
99.00	11441	179.00	17472	263.00	216	377.00	254
100.00	1118	180.00	12918	264.00	482	383.00	2280
101.00	8931	181.00	6121	265.00	7562	384.00	529
101.90	481	182.10	939	266.00	1247	385.00	199
103.00	2466	183.00	711	267.90	202	390.10	1132
104.00	4787	184.00	1198	270.00	419	391.00	640
105.00	4856	185.10	9374	270.90	595	392.00	528
106.00	1473	186.10	74288	272.00	859	401.00	506
107.00	67952	187.10	20504	273.00	9955	402.00	3420
108.00	9807	188.00	2068	274.00	26688	403.00	5432
109.00	1838	189.00	3837	275.00	147776	404.00	1627
110.00	123544	189.90	682	276.10	18968	405.00	236
111.00	17696	191.00	2262	277.00	11809	415.00	201
112.00	1819	192.00	6230	278.00	1774	421.00	5131
112.90	638	193.10	7049	279.00	482	422.00	3941
114.00	179	194.00	1444	280.90	159	423.00	33192
114.80	238	195.00	1036	282.00	357	424.00	5796
116.00	3334	196.10	15513	283.00	1383	425.00	632
117.00	50184	197.00	2637	284.00	975	434.00	155
118.10	3139	198.00	573312	285.00	2248	436.70	155
119.00	504	199.00	37040	286.10	556	441.10	101568
120.00	697	200.00	3218	289.00	393	442.10	688448
121.00	285	201.50	2802	290.00	552	443.10	132864
122.00	4036	203.00	3916	291.00	367	444.10	12072
123.10	5628	204.00	19400	291.90	558	445.00	733
124.00	2843	205.10	32656	293.00	2916		
125.00	2735	206.10	146944	294.00	680		
126.10	975	207.10	18016	295.00	908		
127.00	220864	208.10	4201	296.00	40008		

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\04.D
Lab Smp Id: 14DXICAL-0.01 Client Smp ID: 14DXICAL-0.01
Inj Date : 16-JUN-2023 11:08
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.01
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 12:20 Cal File: 08.D
Als bottle: 4 Calibration Sample, Level: 1
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	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.128	3.128	(1.000)	5079	0.10000	(a)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	17862	0.10000	
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.849)	515	0.01000	0.009537(QM)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	10143	0.10000	
$ 69 2-Fluorobiphenyl	172	5.245	5.245	(0.891)	1004	0.01000	0.009665(M)
* 126 Phenanthrene-d10	188	7.322	7.322	(1.000)	20228	0.10000	
* 182 Chrysene-d12	240	10.023	10.023	(1.000)	14841	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.909	8.909	(0.889)	892	0.01000	0.008235(M)
* 198 Perylene-d12	264	11.945	11.945	(1.000)	14498	0.10000	(M)
1 1,4-Dioxane	58	1.486	1.486	(0.475)	153	0.01000	0.008943(aQM)

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.

01201974

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\04.D

Date : 16-JUN-2023 11:08

Client ID: 14DXICAL-0.01

Instrument: SV6.i

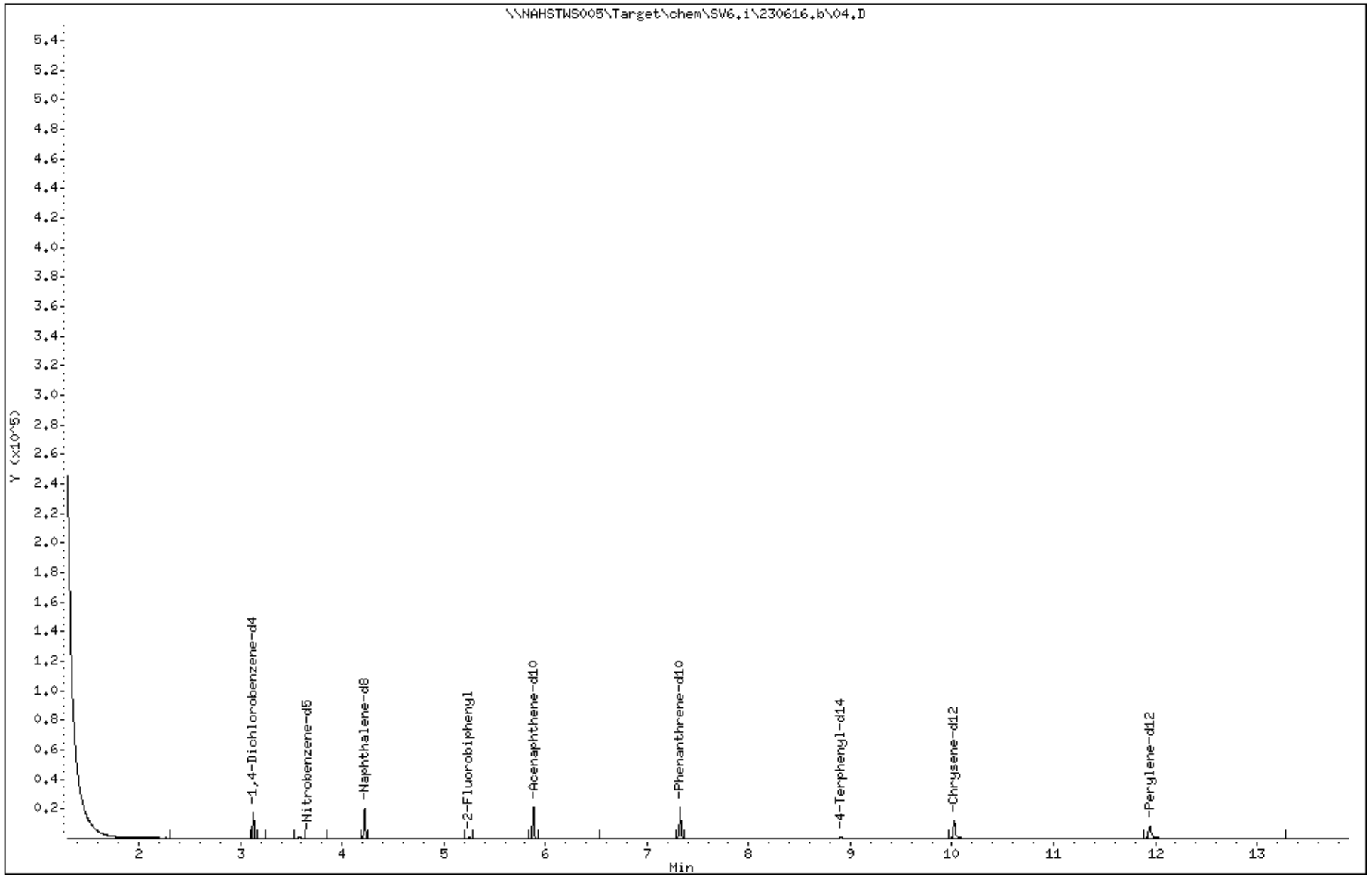
Sample Info: 14DXICAL-0.01

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



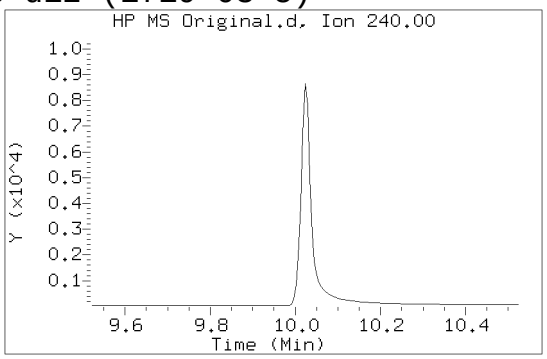
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\04.D
Inj Date : 16-JUN-2023 11:08
InstruID : SV6.i
LabSampID : 14DXICAL-0.01

Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
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AREA
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HEIGHT
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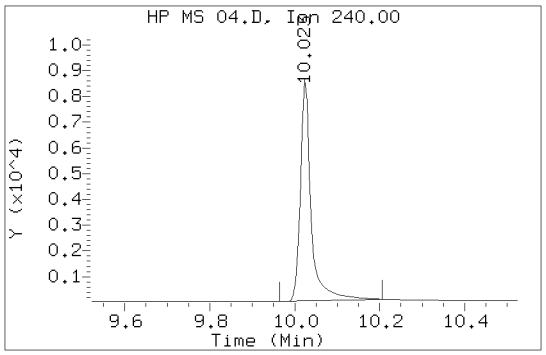
29-Jun-2023
14:26
ALSHS
Ser



BEFORE

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AREA
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HEIGHT
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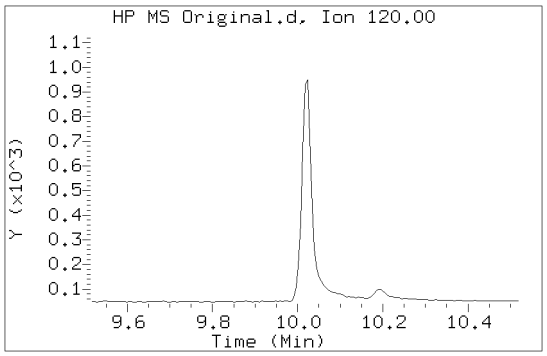
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
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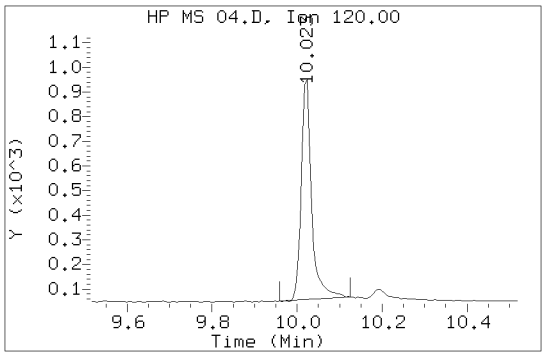
AREA
1504
HEIGHT
891
29-Jun-2023
14:26
ALSHS
Ser



BEFORE

MASS
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AREA
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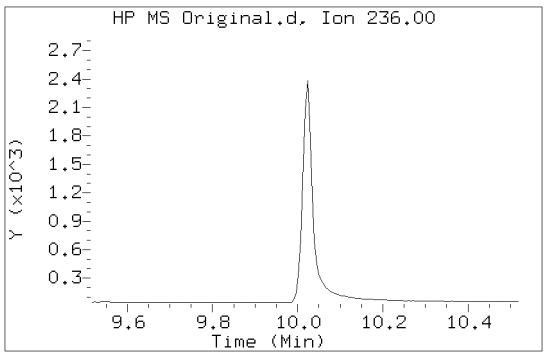
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
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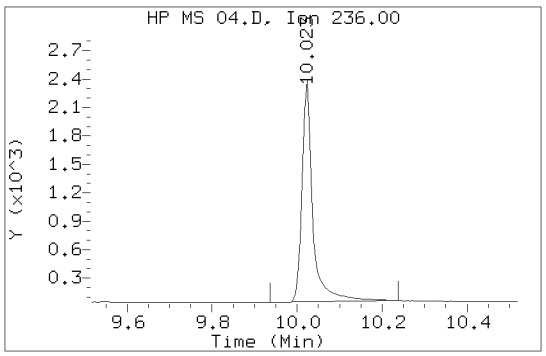
AREA
4047
HEIGHT
2330
29-Jun-2023
14:26
ALSHS
Ser



Perylene-d12 (1520-96-3)

Reason Code:

BEFORE

MASS
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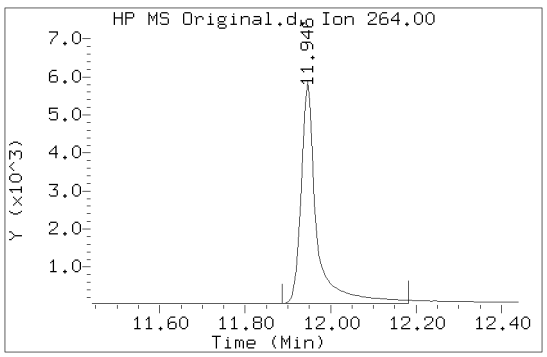
AREA
14674
HEIGHT
5826
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
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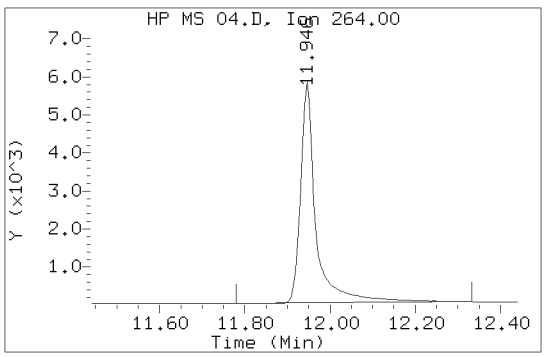
AREA
14498
HEIGHT
5814
29-Jun-2023
14:26
ALSHS
Ser



Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\04.D
Inj Date : 16-JUN-2023 11:08
InstruID : SV6.i
LabSampID : 14DXICAL-0.01

Perylene-d12 (1520-96-3)

Reason Code:

BEFORE

MASS
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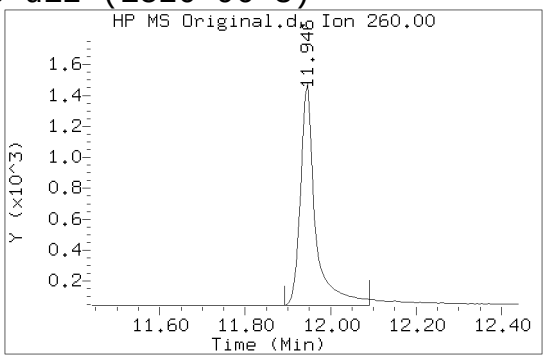
AREA
3461
HEIGHT
1431
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
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AREA
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HEIGHT
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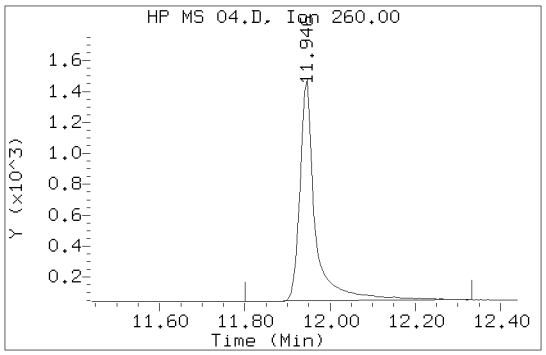
29-Jun-2023
14:26
ALSHS
Ser



BEFORE

MASS
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AREA
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HEIGHT
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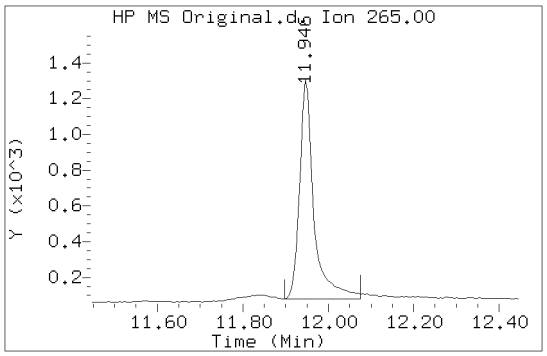
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
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AREA
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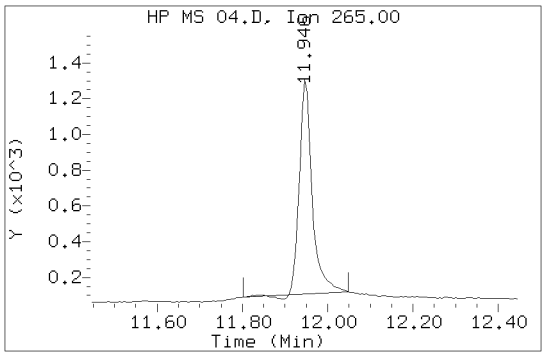
HEIGHT
1196
29-Jun-2023
14:26
ALSHS
Ser

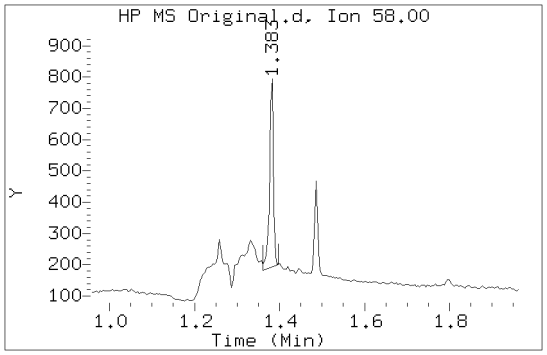


1,4-Dioxane ()

Reason Code:

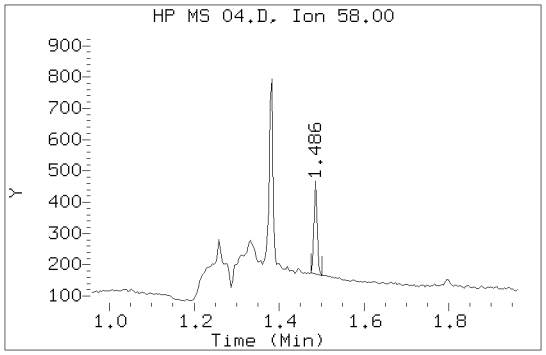
BEFORE

MASS
58
AREA
375
HEIGHT
599
16-Jun-2023
11:24
ALSHS
Server



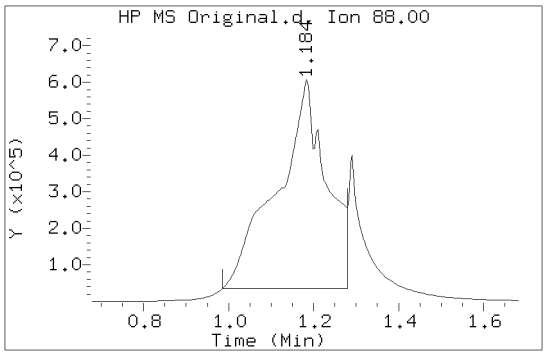
AFTER

MASS
58
AREA
153
HEIGHT
296
29-Jun-2023
14:26
ALSHS
Ser



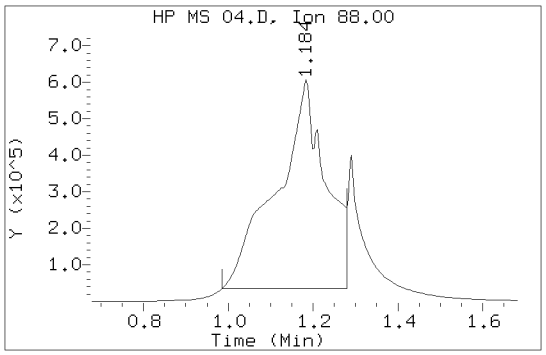
BEFORE

MASS
88
AREA
4618745
HEIGHT
572488
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
88
AREA
4618745
HEIGHT
572488
29-Jun-2023
14:26
ALSHS
Ser



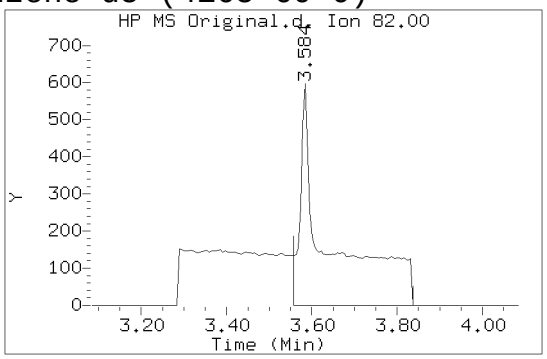
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\04.D
Inj Date : 16-JUN-2023 11:08
InstruID : SV6.i
LabSampID : 14DXICAL-0.01

Nitrobenzene-d5 (4165-60-0)

Reason Code:

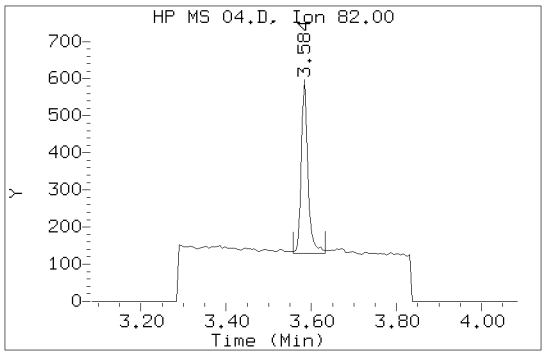
BEFORE

MASS
82
AREA
2695
HEIGHT
597
16-Jun-2023
11:24
ALSHS
Server



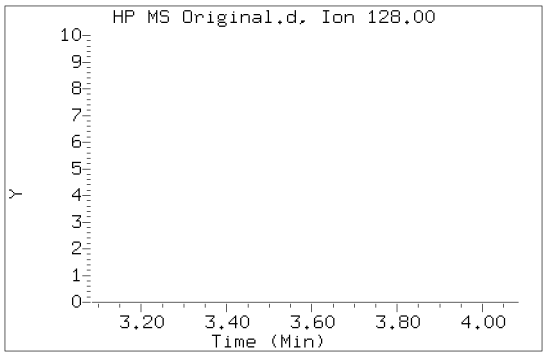
AFTER

MASS
82
AREA
515
HEIGHT
468
29-Jun-2023
14:26
ALSHS
Ser



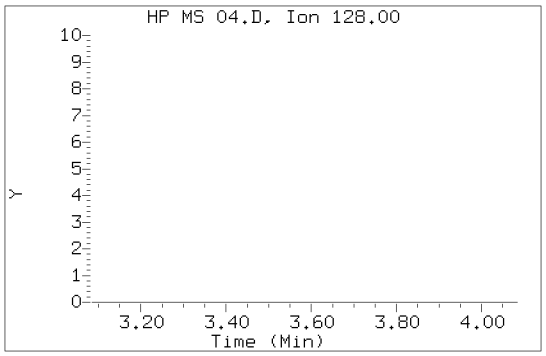
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server



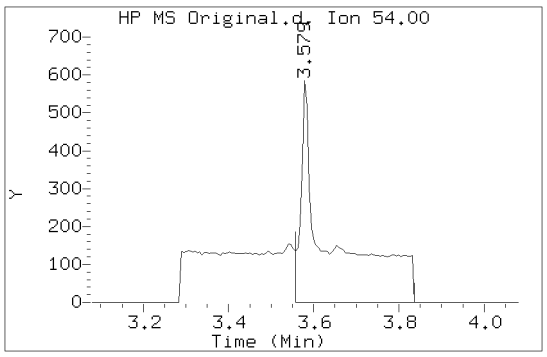
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:26
ALSHS
Ser



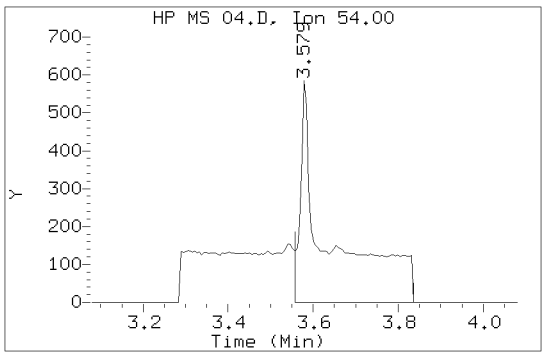
BEFORE

MASS
54
AREA
2634
HEIGHT
585
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
54
AREA
2634
HEIGHT
585
29-Jun-2023
14:26
ALSHS
Ser

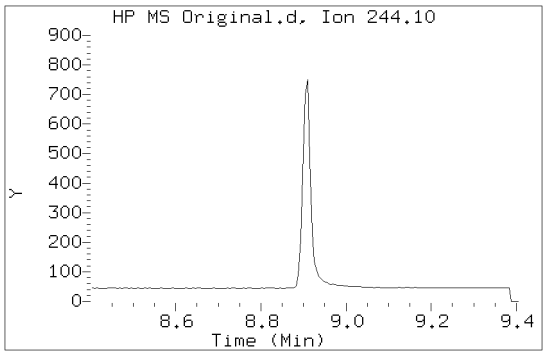


4-Terphenyl-d14 (1718-51-0)

Reason Code:

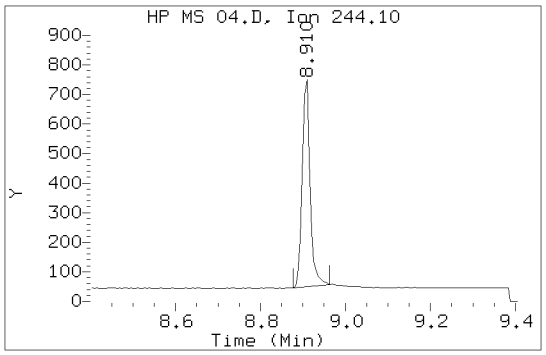
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
244.1
AREA
892
HEIGHT
699
29-Jun-2023
14:26
ALSHS
Ser



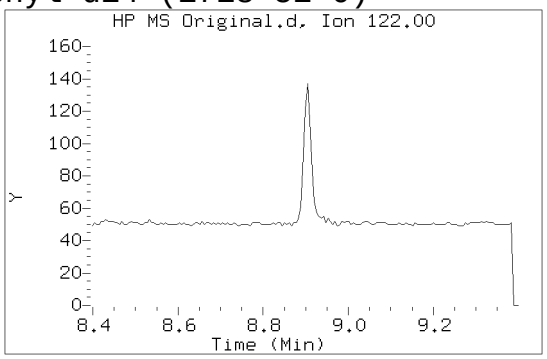
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\04.D
Inj Date : 16-JUN-2023 11:08
InstruID : SV6.i
LabSampID : 14DXICAL-0.01

4-Terphenyl-d14 (1718-51-0)

Reason Code:

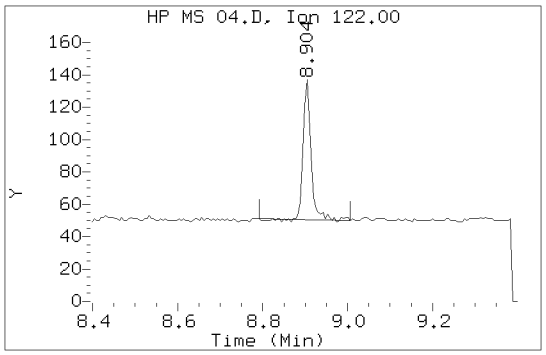
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server



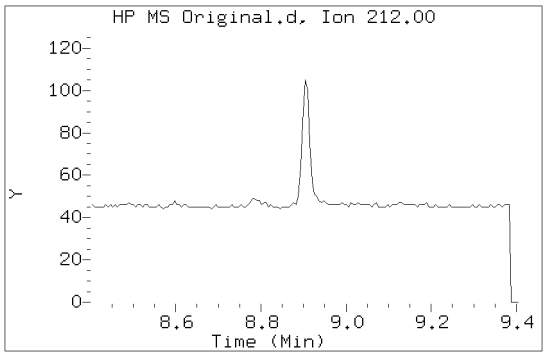
AFTER

MASS
122
AREA
109
HEIGHT
86
29-Jun-2023
14:26
ALSHS
Ser



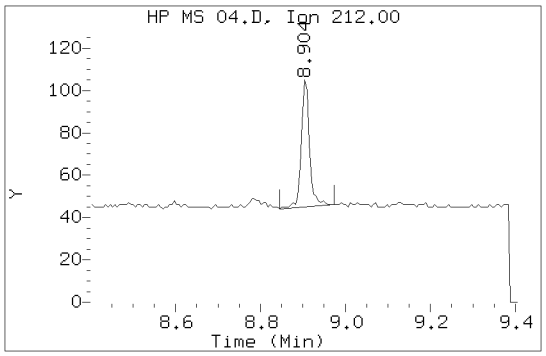
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
212
AREA
80
HEIGHT
60
29-Jun-2023
14:26
ALSHS
Ser

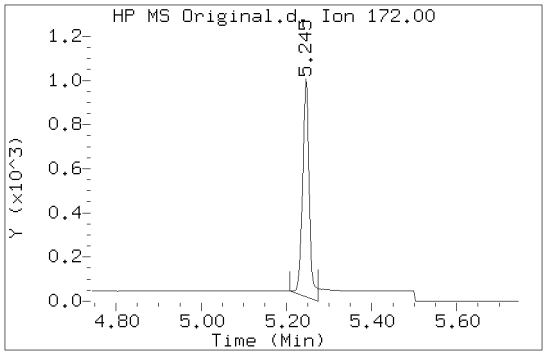


2-Fluorobiphenyl (321-60-8)

Reason Code:

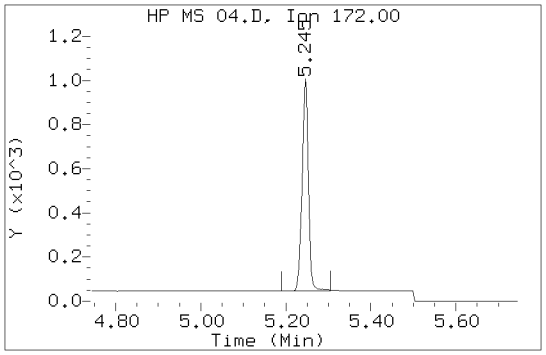
BEFORE

MASS
172
AREA
1093
HEIGHT
986
16-Jun-2023
11:24
ALSHS
Server



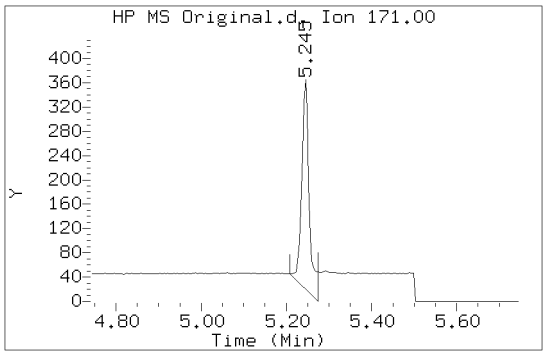
AFTER

MASS
172
AREA
1004
HEIGHT
960
29-Jun-2023
14:26
ALSHS
Ser



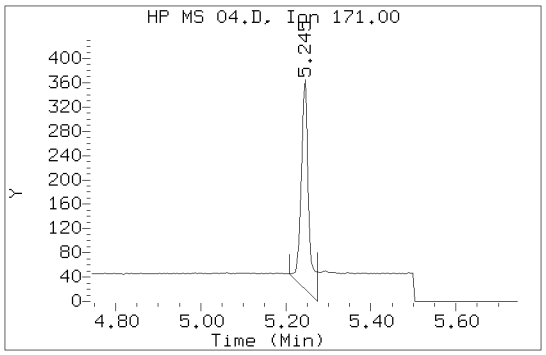
BEFORE

MASS
171
AREA
428
HEIGHT
345
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
171
AREA
428
HEIGHT
345
29-Jun-2023
14:26
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D Page 1
Report Date: 29-Jun-2023 14:27

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Lab Smp Id: 14DXICAL-0.03 Client Smp ID: 14DXICAL-0.03
Inj Date : 16-JUN-2023 11:26
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.03
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 11:08 Cal File: 04.D
Als bottle: 5 Calibration Sample, Level: 2
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	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.128	3.128	(1.000)	4348	0.10000	(aM)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	14672	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.849)	1234	0.03000	0.02782(QM)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	8616	0.10000	
$ 69 2-Fluorobiphenyl	172	5.245	5.245	(0.891)	2509	0.03000	0.02843(M)
* 126 Phenanthrene-d10	188	7.322	7.322	(1.000)	16998	0.10000	
* 182 Chrysene-d12	240	10.023	10.023	(1.000)	11821	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.904	8.904	(0.888)	2416	0.03000	0.02800(M)
* 198 Perylene-d12	264	11.940	11.940	(1.000)	10677	0.10000	(M)
1 1,4-Dioxane	58	1.467	1.467	(0.469)	426	0.03000	0.02909(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.

01201980

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D

Date : 16-JUN-2023 11:26

Client ID: 14DXICAL-0.03

Instrument: SV6.i

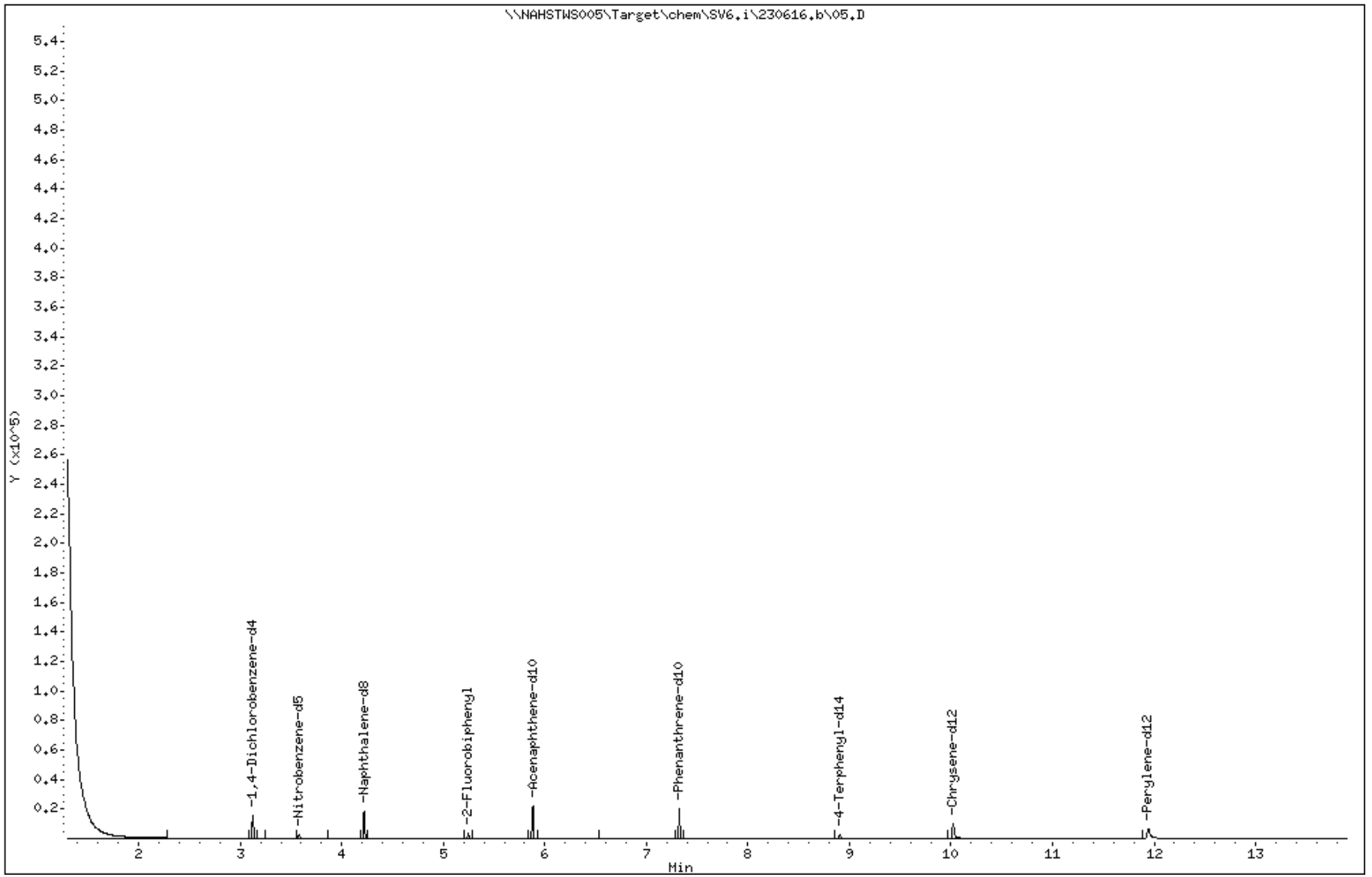
Sample Info: 14DXICAL-0.03

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



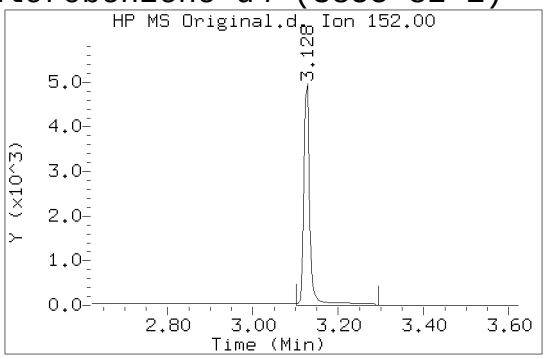
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

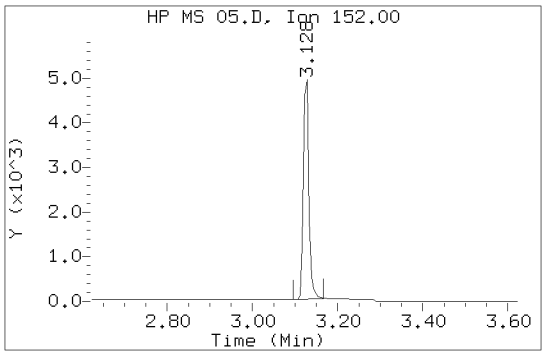
BEFORE

MASS
152
AREA
4935
HEIGHT
4966
16-Jun-2023
11:42
ALSHS
Server



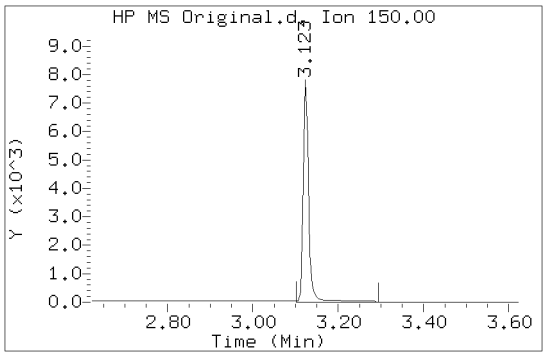
AFTER

MASS
152
AREA
4348
HEIGHT
4916
29-Jun-2023
14:26
ALSHS
Ser



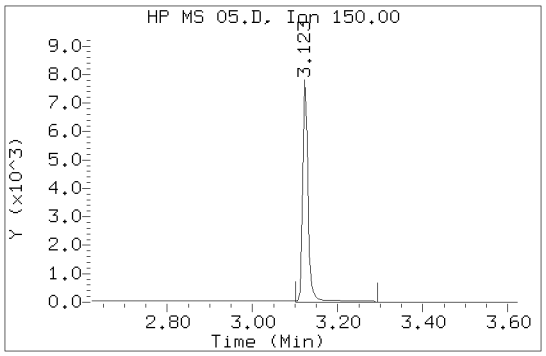
BEFORE

MASS
150
AREA
6954
HEIGHT
7812
16-Jun-2023
11:42
ALSHS
Server



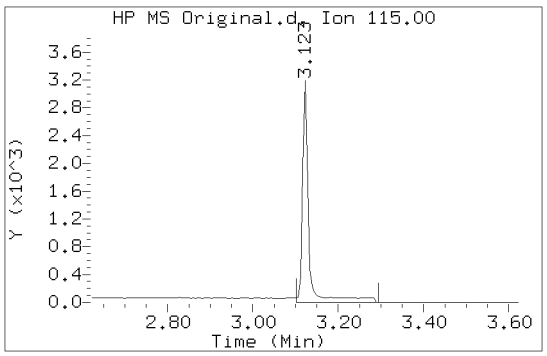
AFTER

MASS
150
AREA
6954
HEIGHT
7812
29-Jun-2023
14:26
ALSHS
Ser



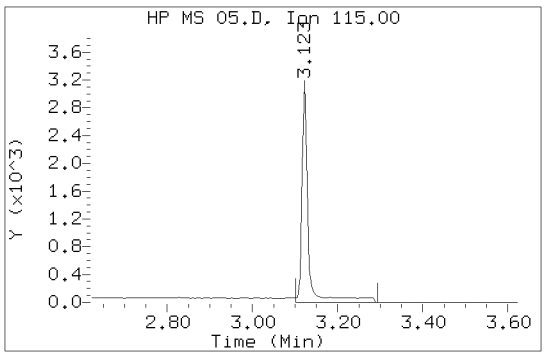
BEFORE

MASS
115
AREA
3189
HEIGHT
3190
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
115
AREA
3189
HEIGHT
3190
29-Jun-2023
14:26
ALSHS
Ser

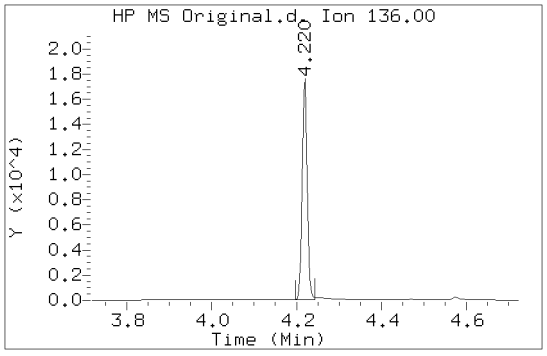


Naphthalene-d8 (1146-65-2)

Reason Code:

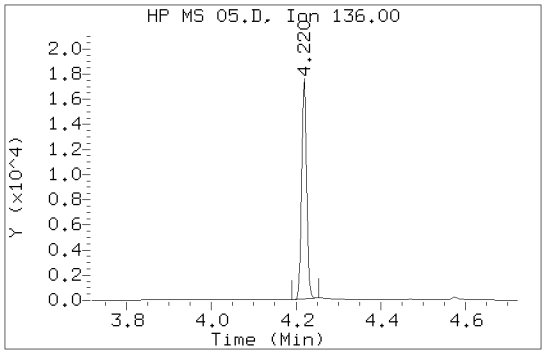
BEFORE

MASS
136
AREA
14851
HEIGHT
17567
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
136
AREA
14672
HEIGHT
17505
29-Jun-2023
14:26
ALSHS
Ser



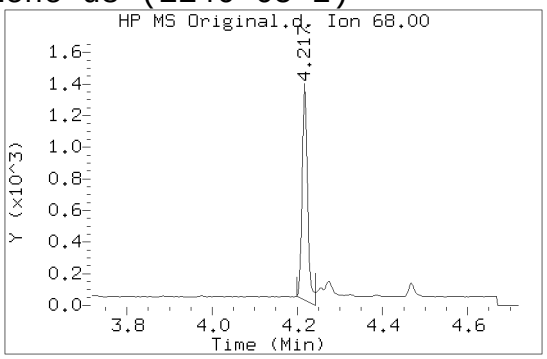
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

Naphthalene-d8 (1146-65-2)

Reason Code:

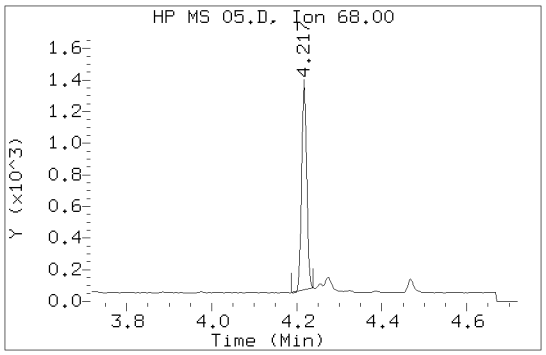
BEFORE

MASS
68
AREA
1196
HEIGHT
1368
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
68
AREA
1062
HEIGHT
1328
29-Jun-2023
14:26
ALSHS
Ser

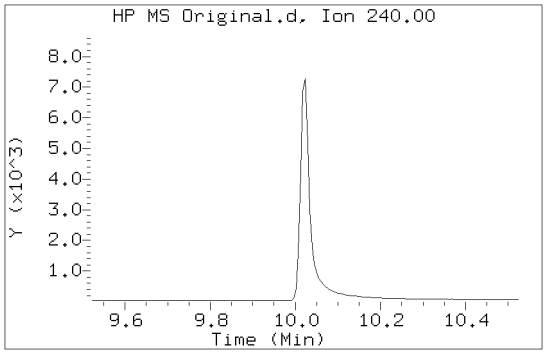


Chrysene-d12 (1719-03-5)

Reason Code:

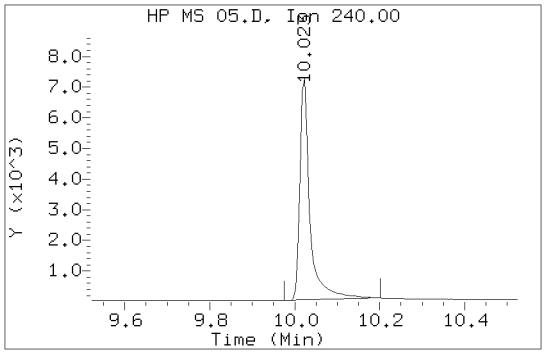
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



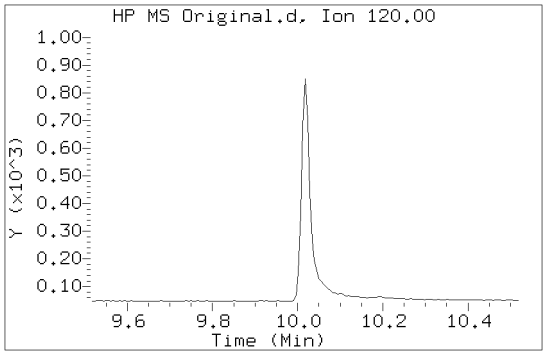
AFTER

MASS
240
AREA
11821
HEIGHT
7215
29-Jun-2023
14:26
ALSHS
Ser



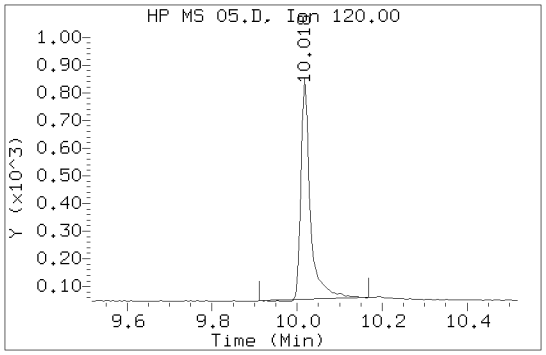
BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



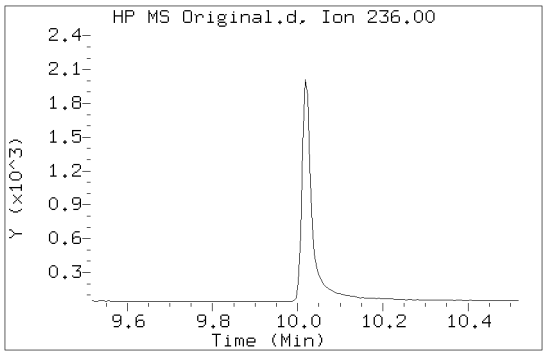
AFTER

MASS
120
AREA
1207
HEIGHT
796
29-Jun-2023
14:26
ALSHS
Ser



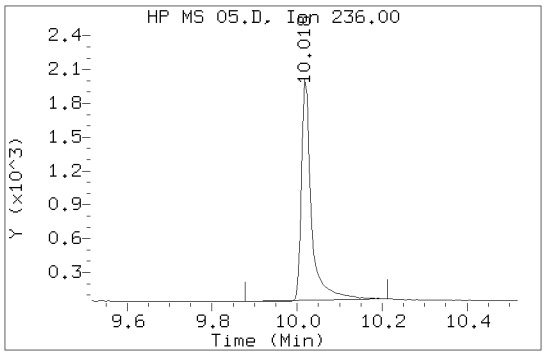
BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
236
AREA
3185
HEIGHT
1956
29-Jun-2023
14:26
ALSHS
Ser



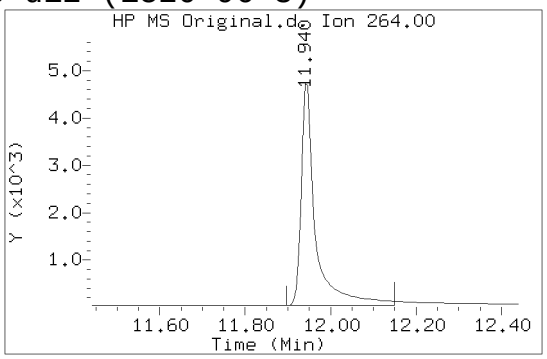
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

Perylene-d12 (1520-96-3)

Reason Code:

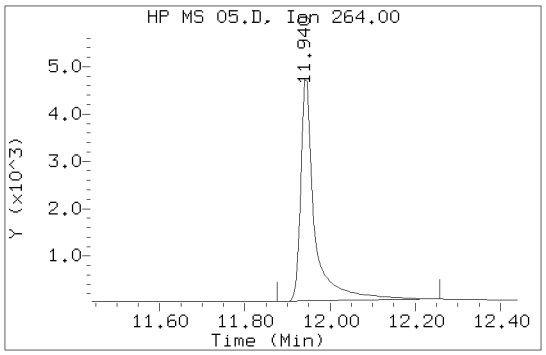
BEFORE

MASS
264
AREA
10829
HEIGHT
4681
16-Jun-2023
11:42
ALSHS
Server



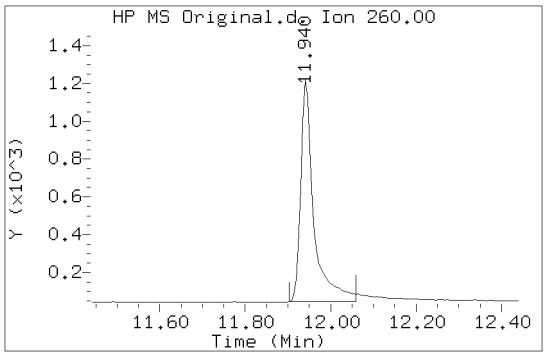
AFTER

MASS
264
AREA
10677
HEIGHT
4673
29-Jun-2023
14:26
ALSHS
Ser



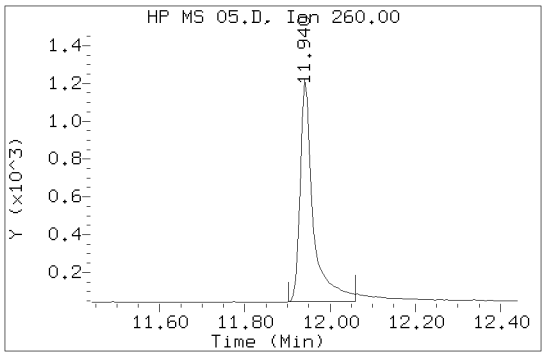
BEFORE

MASS
260
AREA
2488
HEIGHT
1174
16-Jun-2023
11:42
ALSHS
Server



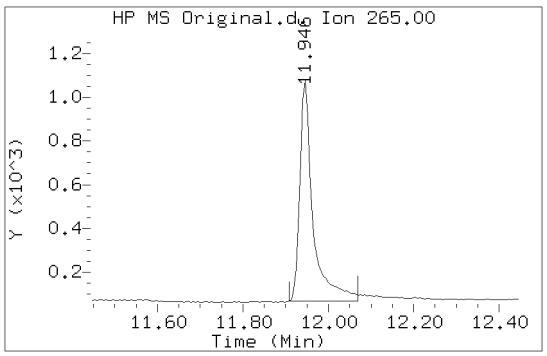
AFTER

MASS
260
AREA
2488
HEIGHT
1174
29-Jun-2023
14:26
ALSHS
Ser



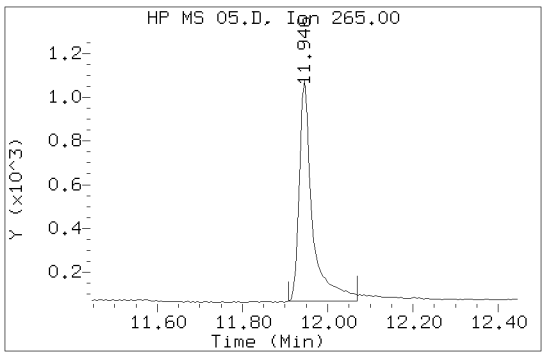
BEFORE

MASS
265
AREA
2154
HEIGHT
1009
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
265
AREA
2154
HEIGHT
1009
29-Jun-2023
14:26
ALSHS
Ser

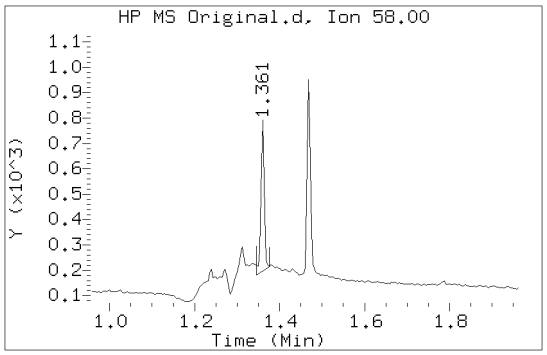


1,4-Dioxane ()

Reason Code:

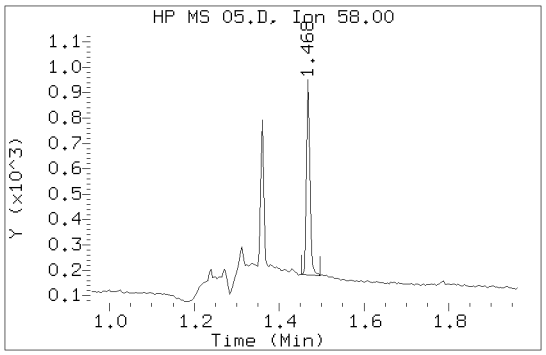
BEFORE

MASS
58
AREA
319
HEIGHT
594
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
58
AREA
426
HEIGHT
768
29-Jun-2023
14:26
ALSHS
Ser



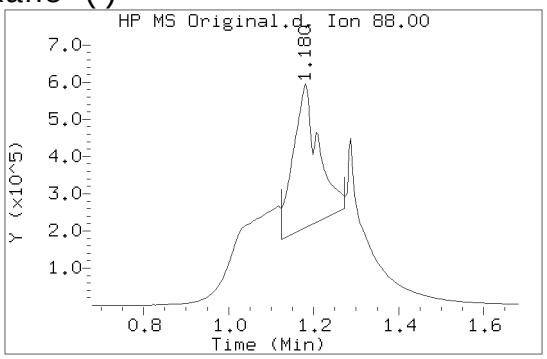
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

1,4-Dioxane ()

Reason Code:

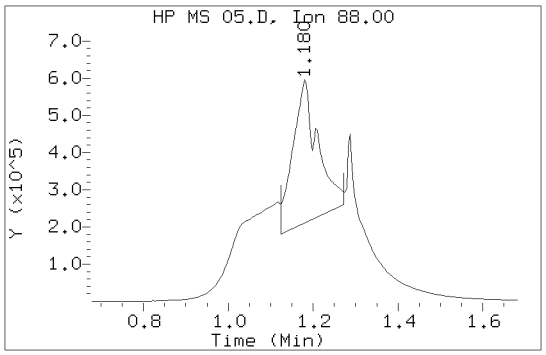
BEFORE

MASS
88
AREA
1599767
HEIGHT
386587
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
88
AREA
1591467
HEIGHT
385442
29-Jun-2023
14:26
ALSHS
Ser

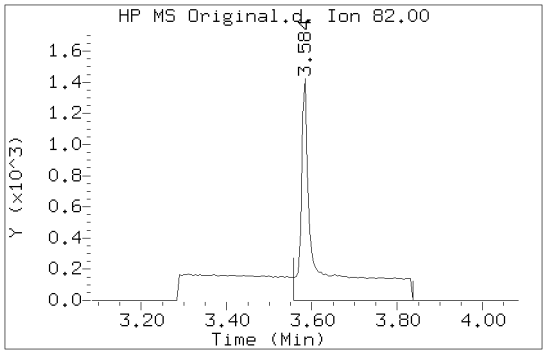


Nitrobenzene-d5 (4165-60-0)

Reason Code:

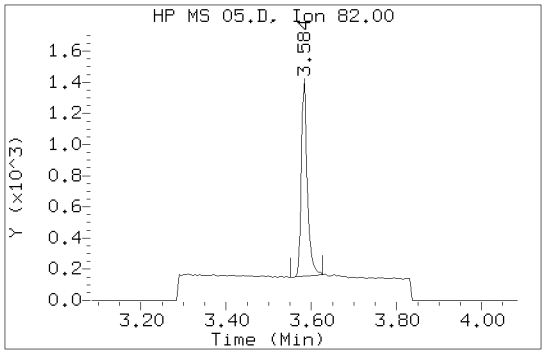
BEFORE

MASS
82
AREA
3739
HEIGHT
1423
16-Jun-2023
11:42
ALSHS
Server



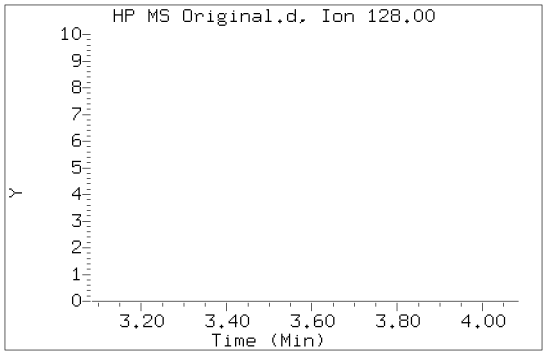
AFTER

MASS
82
AREA
1234
HEIGHT
1266
29-Jun-2023
14:26
ALSHS
Ser



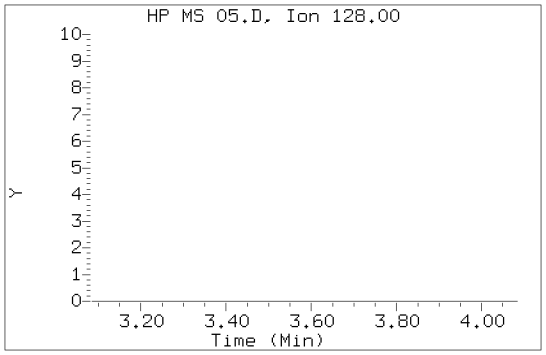
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



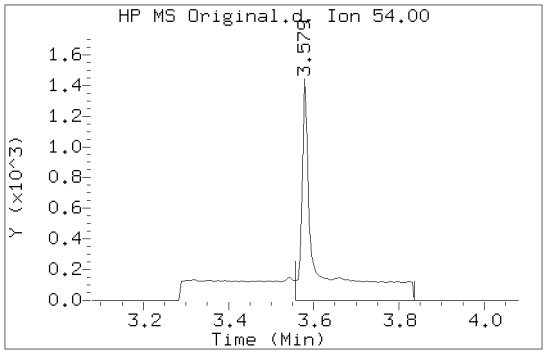
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:26
ALSHS
Ser



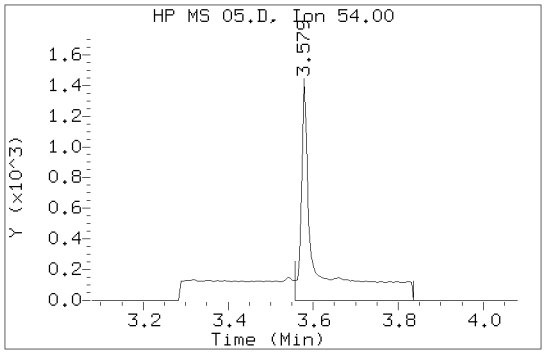
BEFORE

MASS
54
AREA
3364
HEIGHT
1444
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
54
AREA
3364
HEIGHT
1444
29-Jun-2023
14:26
ALSHS
Ser



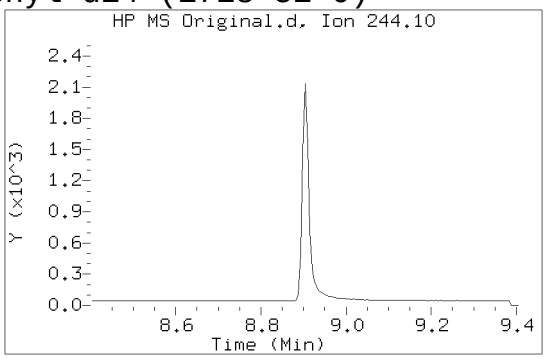
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

4-Terphenyl-d14 (1718-51-0)

Reason Code:

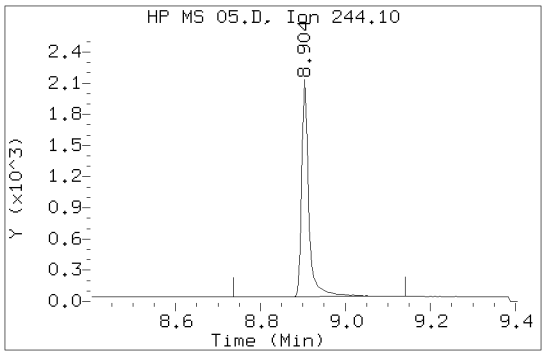
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



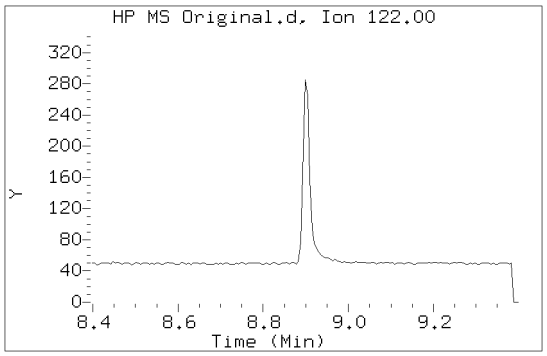
AFTER

MASS
244.1
AREA
2416
HEIGHT
2087
29-Jun-2023
14:26
ALSHS
Ser



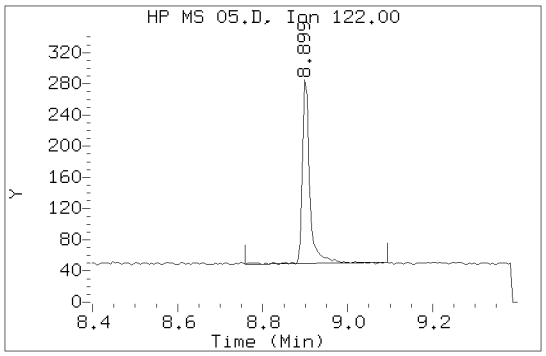
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



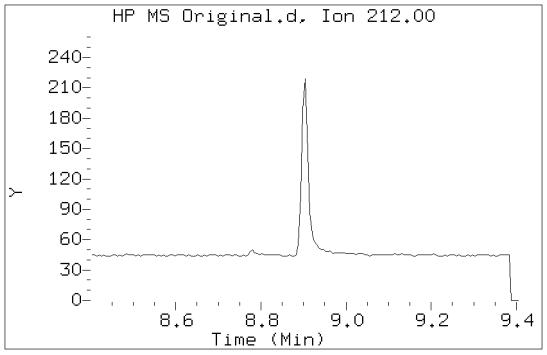
AFTER

MASS
122
AREA
278
HEIGHT
235
29-Jun-2023
14:26
ALSHS
Ser



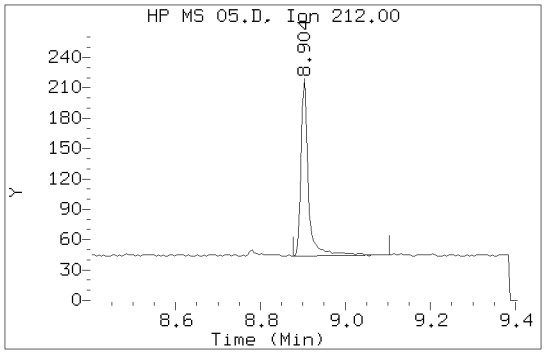
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
212
AREA
205
HEIGHT
174
29-Jun-2023
14:26
ALSHS
Ser

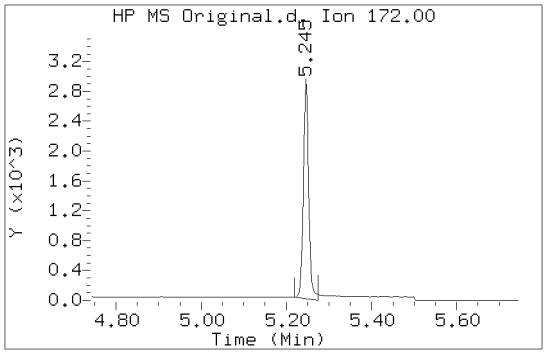


2-Fluorobiphenyl (321-60-8)

Reason Code:

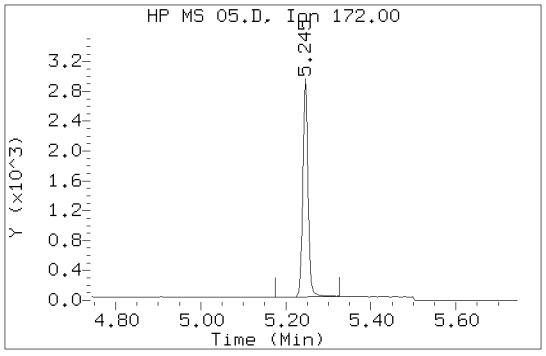
BEFORE

MASS
172
AREA
2588
HEIGHT
2943
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
172
AREA
2509
HEIGHT
2918
29-Jun-2023
14:26
ALSHS
Ser



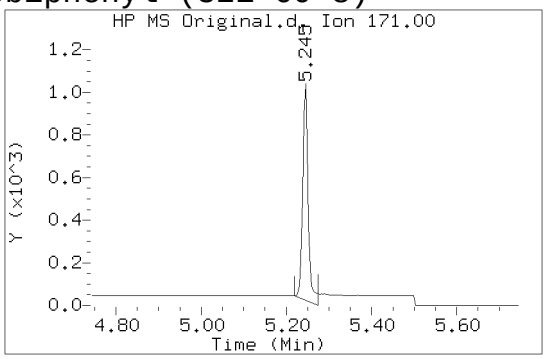
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

2-Fluorobiphenyl (321-60-8)

Reason Code:

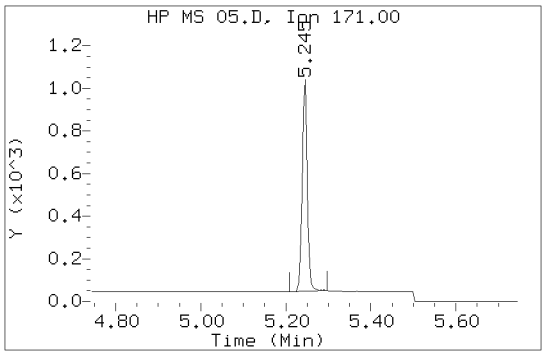
BEFORE

MASS
171
AREA
921
HEIGHT
1017
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
171
AREA
834
HEIGHT
993
29-Jun-2023
14:26
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Lab Smp Id: 14DXICAL-0.05 Client Smp ID: 14DXICAL-0.05
Inj Date : 16-JUN-2023 11:44
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.05
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 11:26 Cal File: 05.D
Als bottle: 6 Calibration Sample, Level: 3
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	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.128	3.128	(1.000)	5073	0.10000	(a)
* 45 Naphthalene-d8	136	4.216	4.216	(1.000)	17044	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.850)	2574	0.05000	0.04995(QM)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	10027	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.245	5.245	(0.891)	4907	0.05000	0.04778(M)
* 126 Phenanthrene-d10	188	7.322	7.322	(1.000)	19800	0.10000	
* 182 Chrysene-d12	240	10.017	10.017	(1.000)	14524	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.904	8.904	(0.889)	4687	0.05000	0.04422(M)
* 198 Perylene-d12	264	11.940	11.940	(1.000)	12549	0.10000	(M)
1 1,4-Dioxane	58	1.486	1.486	(0.475)	828	0.05000	0.04846(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.

01201988

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D

Date : 16-JUN-2023 11:44

Client ID: 14DXICAL-0.05

Instrument: SV6.i

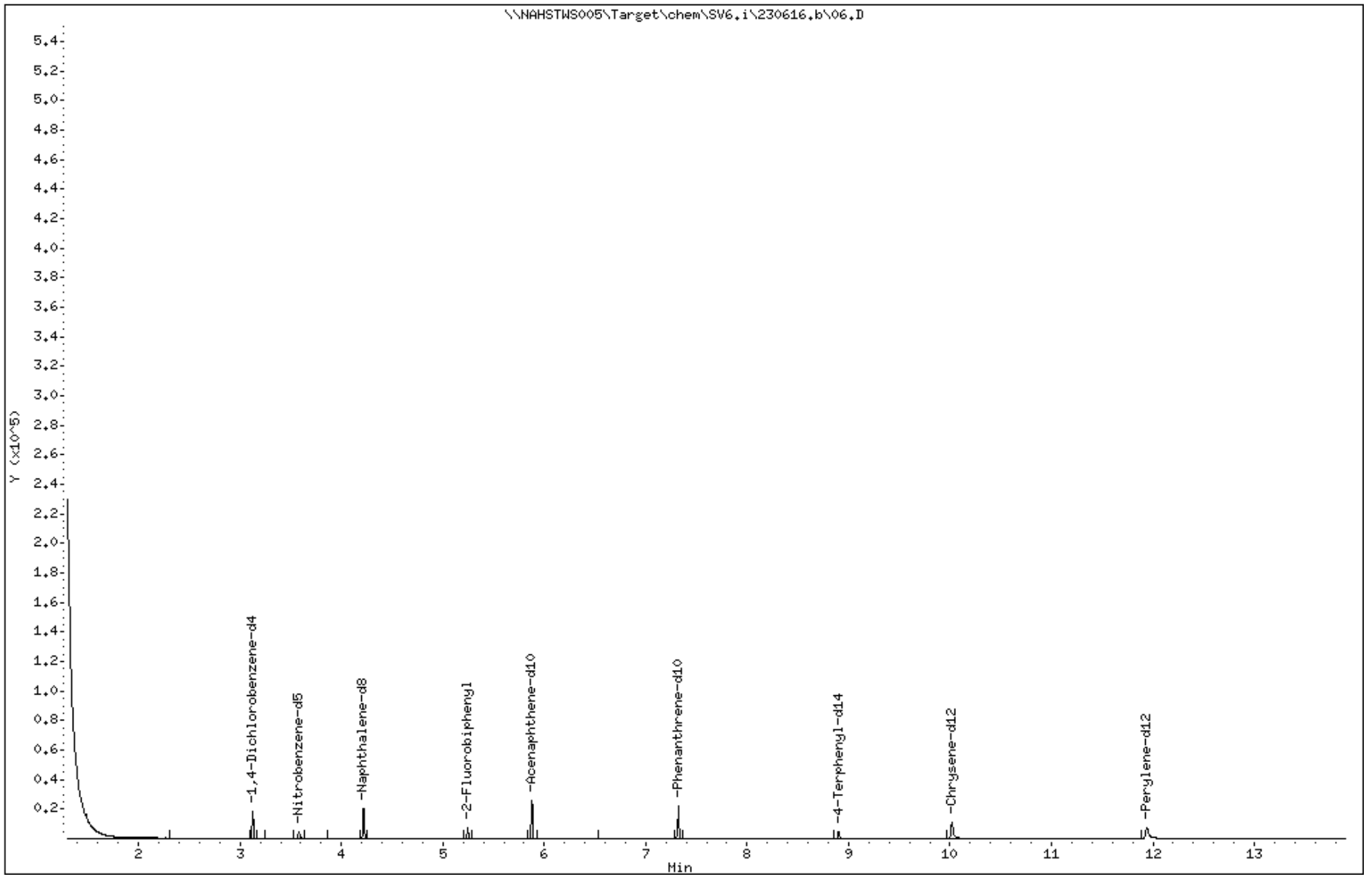
Sample Info: 14DXICAL-0.05

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



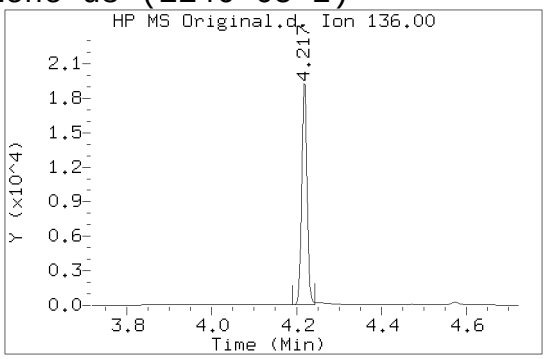
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

Naphthalene-d8 (1146-65-2)

Reason Code:

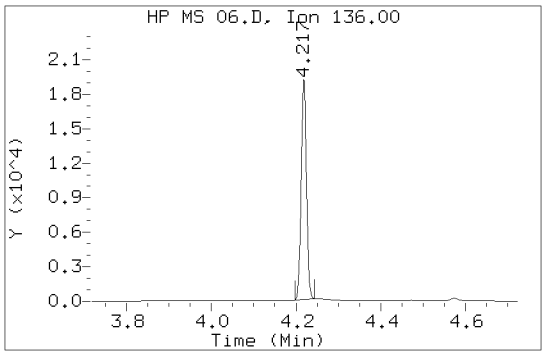
BEFORE

MASS
136
AREA
17378
HEIGHT
19211
16-Jun-2023
11:59
ALSHS
Server



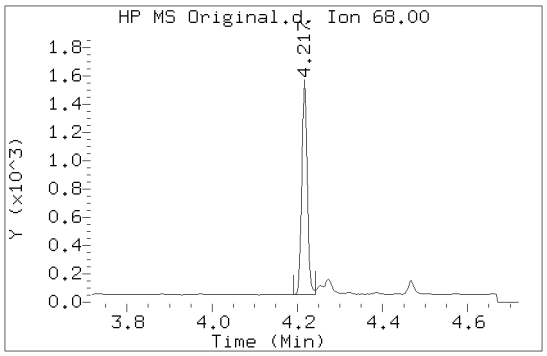
AFTER

MASS
136
AREA
17044
HEIGHT
19106
29-Jun-2023
14:26
ALSHS
Ser



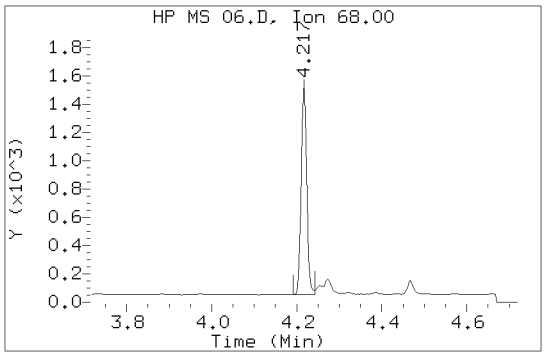
BEFORE

MASS
68
AREA
1330
HEIGHT
1515
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
68
AREA
1330
HEIGHT
1515
29-Jun-2023
14:26
ALSHS
Ser

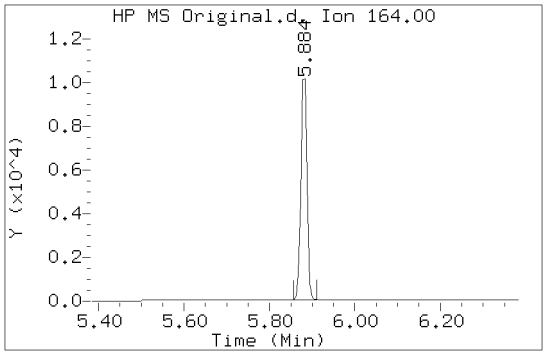


Acenaphthene-d10 (15067-26-2)

Reason Code:

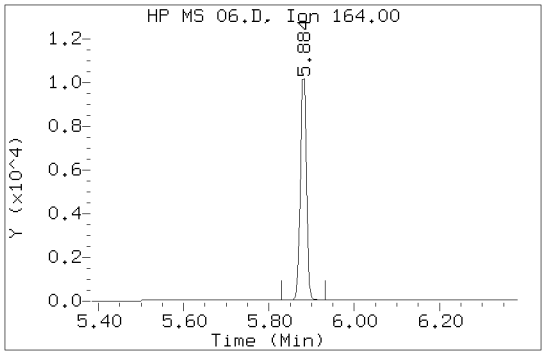
BEFORE

MASS
164
AREA
9969
HEIGHT
10109
16-Jun-2023
11:59
ALSHS
Server



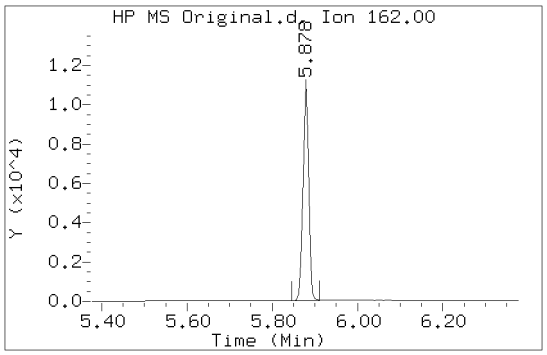
AFTER

MASS
164
AREA
10027
HEIGHT
10124
29-Jun-2023
14:26
ALSHS
Ser



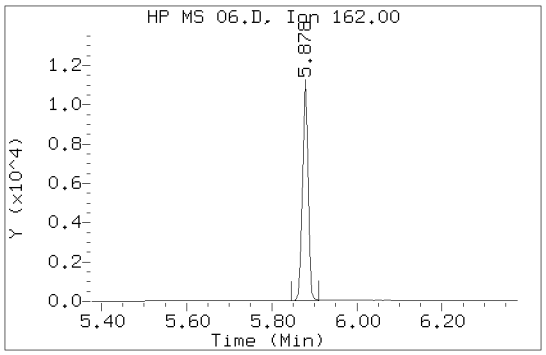
BEFORE

MASS
162
AREA
10122
HEIGHT
11230
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
162
AREA
10122
HEIGHT
11230
29-Jun-2023
14:26
ALSHS
Ser



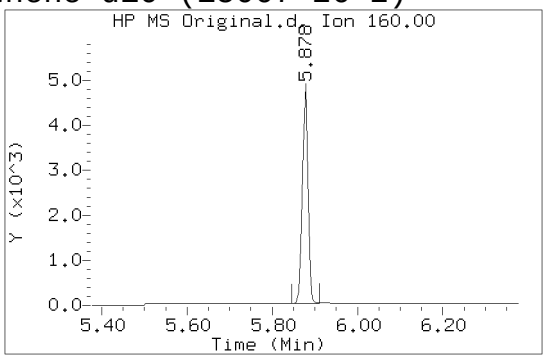
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

Acenaphthene-d10 (15067-26-2)

Reason Code:

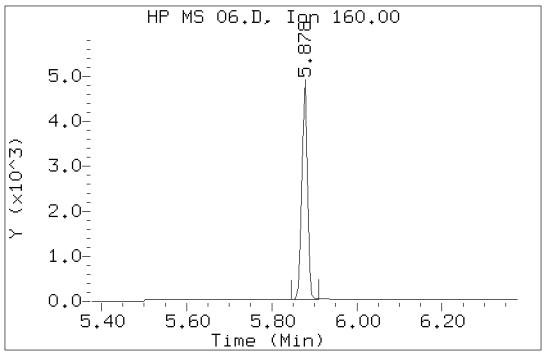
BEFORE

MASS
160
AREA
4359
HEIGHT
4881
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
160
AREA
4359
HEIGHT
4881
29-Jun-2023
14:26
ALSHS
Ser

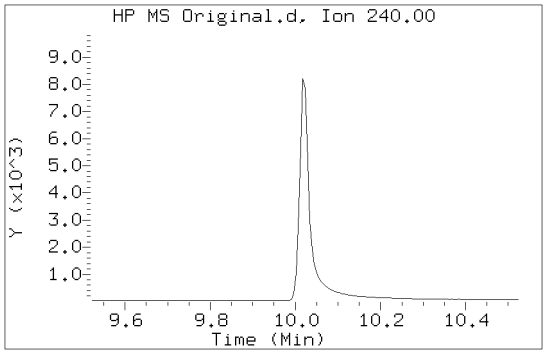


Chrysene-d12 (1719-03-5)

Reason Code:

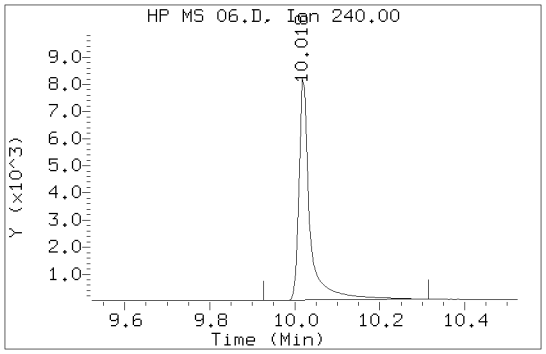
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



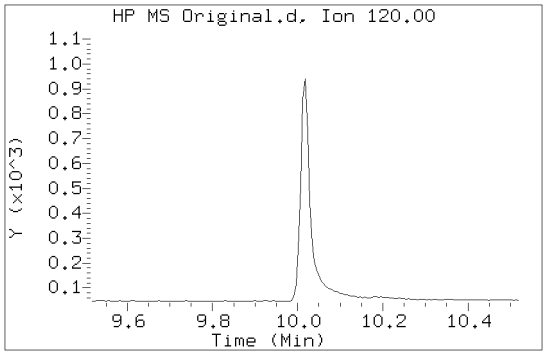
AFTER

MASS
240
AREA
14524
HEIGHT
8152
29-Jun-2023
14:26
ALSHS
Ser



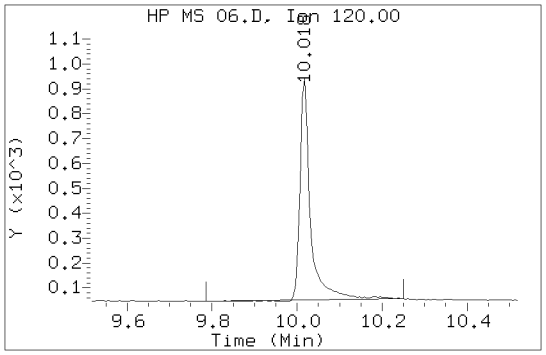
BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



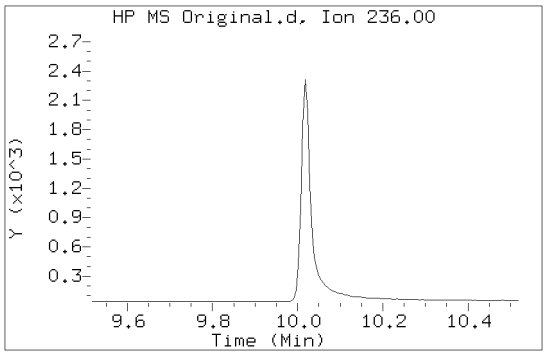
AFTER

MASS
120
AREA
1511
HEIGHT
888
29-Jun-2023
14:26
ALSHS
Ser



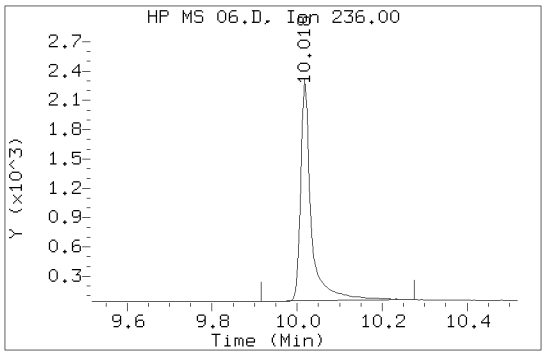
BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
236
AREA
3903
HEIGHT
2262
29-Jun-2023
14:26
ALSHS
Ser



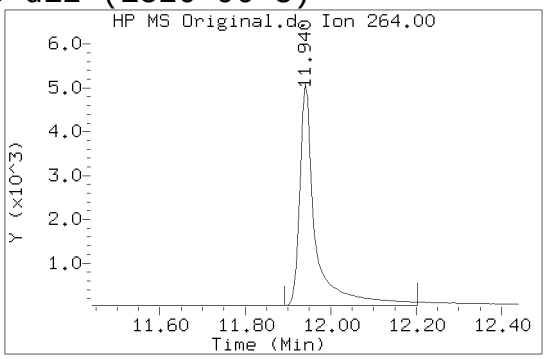
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

Perylene-d12 (1520-96-3)

Reason Code:

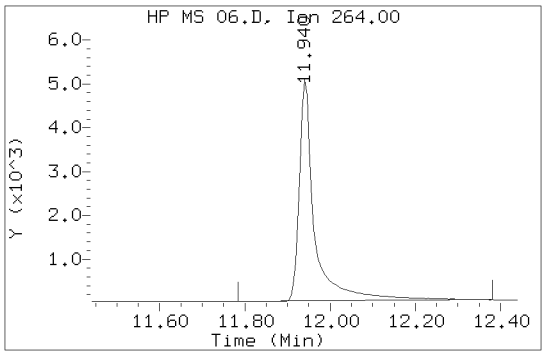
BEFORE

MASS
264
AREA
12686
HEIGHT
5050
16-Jun-2023
11:59
ALSHS
Server



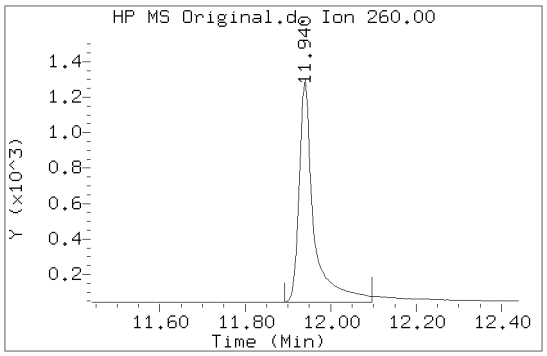
AFTER

MASS
264
AREA
12549
HEIGHT
5041
29-Jun-2023
14:26
ALSHS
Ser



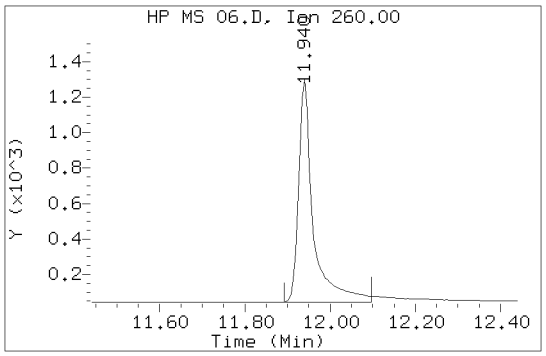
BEFORE

MASS
260
AREA
2978
HEIGHT
1253
16-Jun-2023
11:59
ALSHS
Server



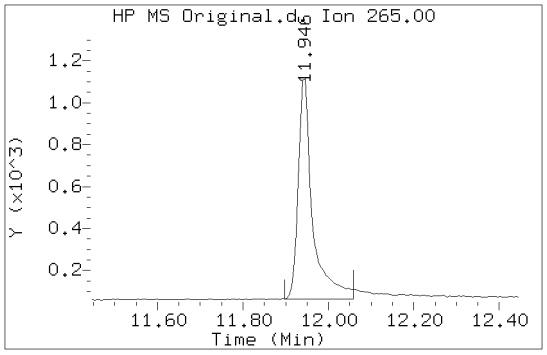
AFTER

MASS
260
AREA
2978
HEIGHT
1253
29-Jun-2023
14:26
ALSHS
Ser



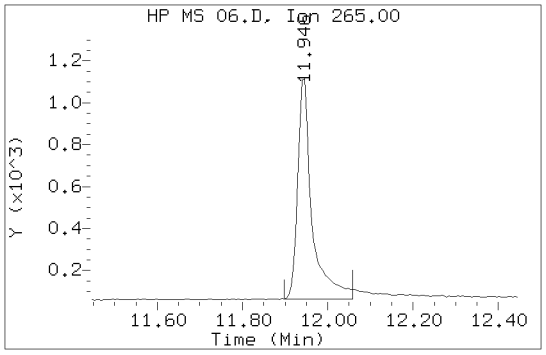
BEFORE

MASS
265
AREA
2473
HEIGHT
1053
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
265
AREA
2473
HEIGHT
1053
29-Jun-2023
14:26
ALSHS
Ser

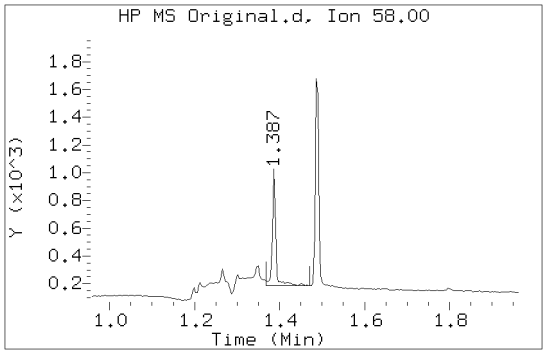


1,4-Dioxane ()

Reason Code:

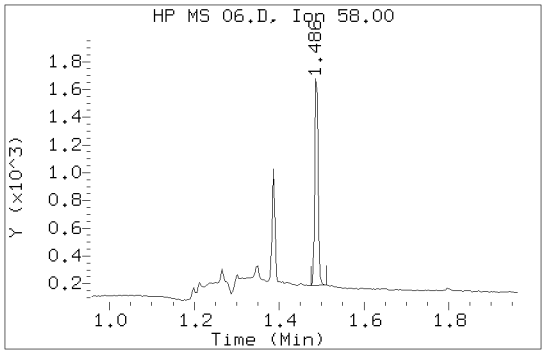
BEFORE

MASS
58
AREA
474
HEIGHT
839
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
58
AREA
828
HEIGHT
1488
29-Jun-2023
14:26
ALSHS
Ser



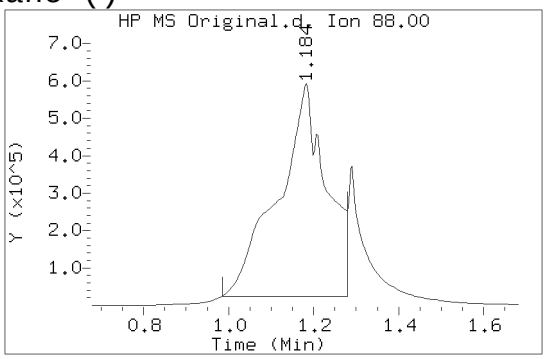
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

1,4-Dioxane ()

Reason Code:

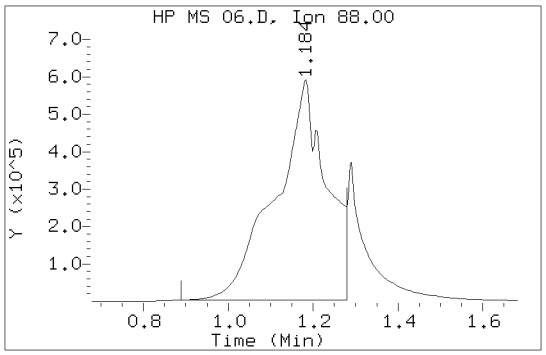
BEFORE

MASS
88
AREA
4490753
HEIGHT
567696
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
88
AREA
4905096
HEIGHT
589066
29-Jun-2023
14:26
ALSHS
Ser

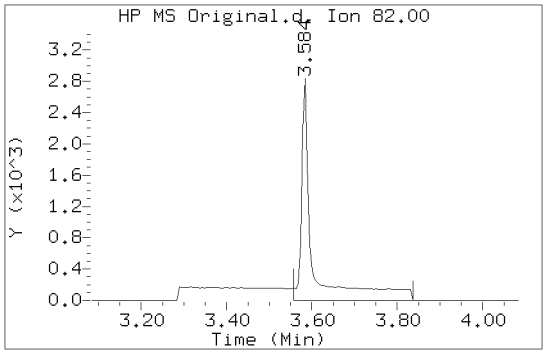


Nitrobenzene-d5 (4165-60-0)

Reason Code:

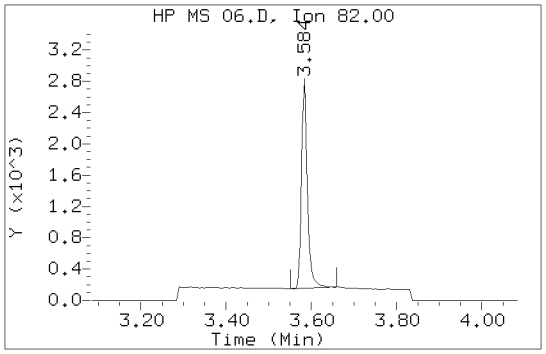
BEFORE

MASS
82
AREA
5121
HEIGHT
2833
16-Jun-2023
11:59
ALSHS
Server



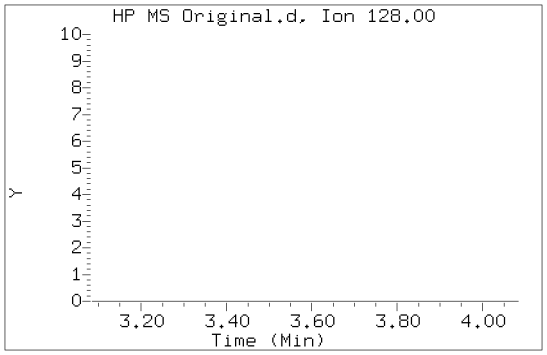
AFTER

MASS
82
AREA
2574
HEIGHT
2676
29-Jun-2023
14:26
ALSHS
Ser



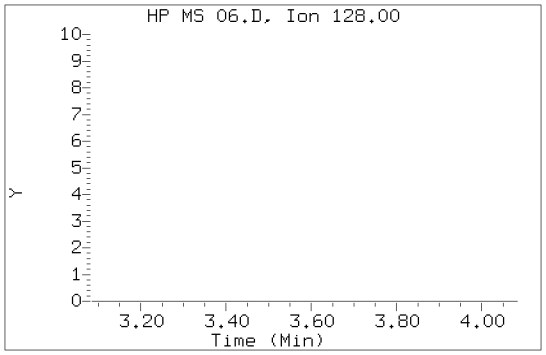
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



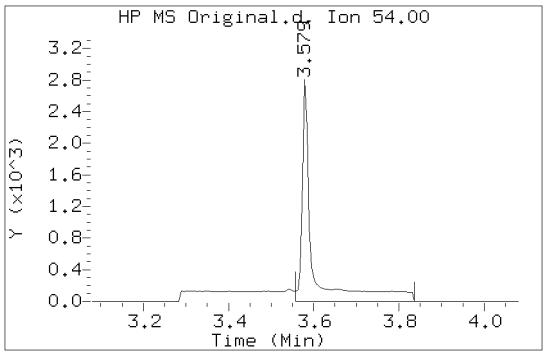
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:26
ALSHS
Ser



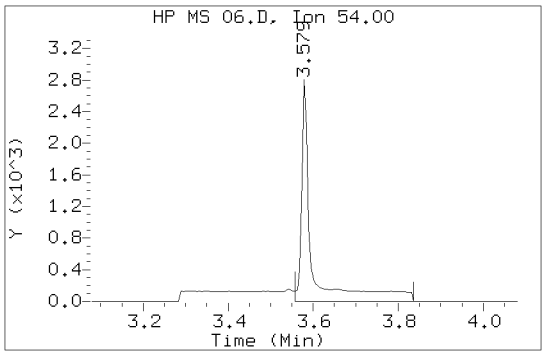
BEFORE

MASS
54
AREA
4709
HEIGHT
2805
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
54
AREA
4709
HEIGHT
2805
29-Jun-2023
14:26
ALSHS
Ser



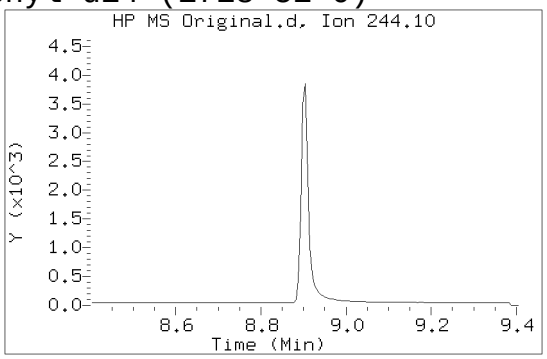
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

4-Terphenyl-d14 (1718-51-0)

Reason Code:

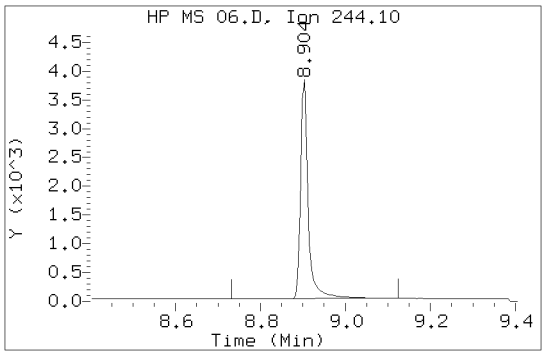
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



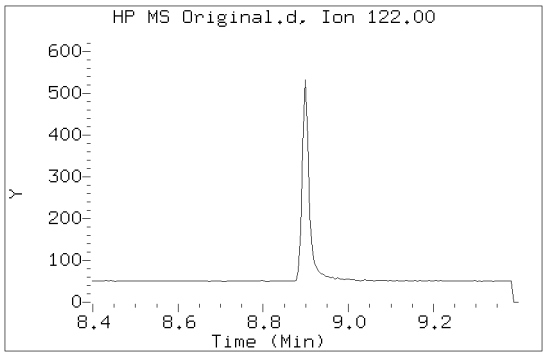
AFTER

MASS
244.1
AREA
4687
HEIGHT
3802
29-Jun-2023
14:26
ALSHS
Ser



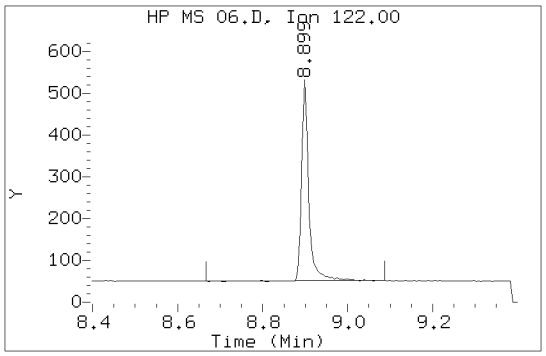
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



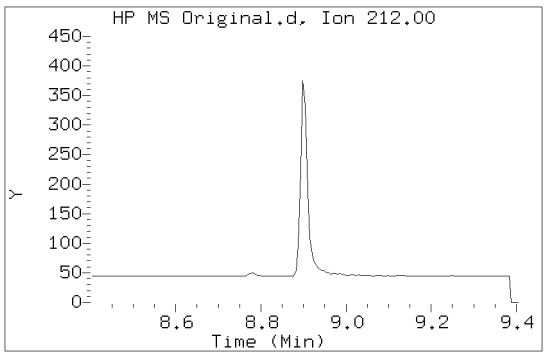
AFTER

MASS
122
AREA
540
HEIGHT
480
29-Jun-2023
14:26
ALSHS
Ser



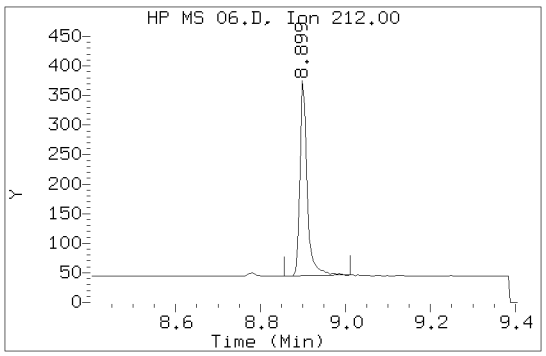
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
212
AREA
383
HEIGHT
330
29-Jun-2023
14:26
ALSHS
Ser

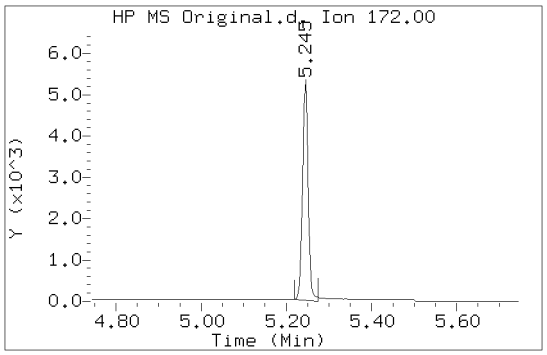


2-Fluorobiphenyl (321-60-8)

Reason Code:

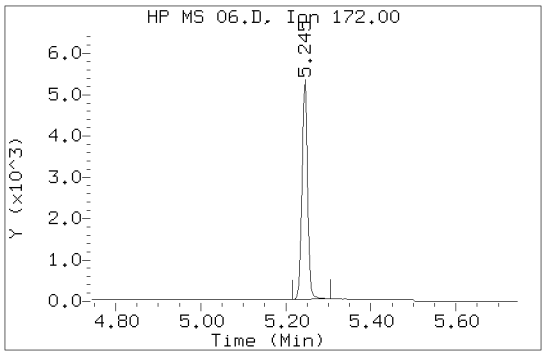
BEFORE

MASS
172
AREA
4989
HEIGHT
5338
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
172
AREA
4907
HEIGHT
5312
29-Jun-2023
14:26
ALSHS
Ser



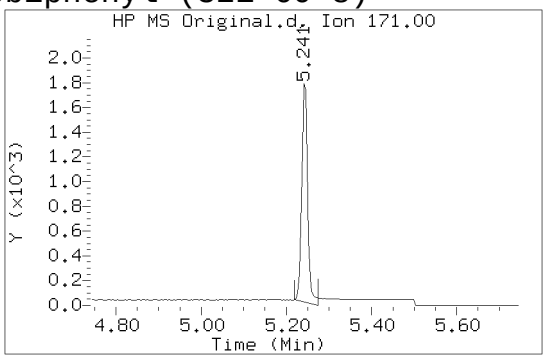
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

2-Fluorobiphenyl (321-60-8)

Reason Code:

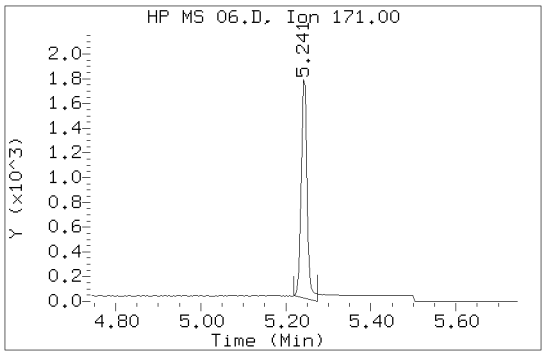
BEFORE

MASS
171
AREA
1727
HEIGHT
1764
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
171
AREA
1727
HEIGHT
1764
29-Jun-2023
14:26
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Lab Smp Id: 14DXICAL-0.08 Client Smp ID: 14DXICAL-0.08
Inj Date : 16-JUN-2023 12:02
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 11:44 Cal File: 06.D
Als bottle: 7 Calibration Sample, Level: 4
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	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.128	3.128	(1.000)	4590	0.10000	(a)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	15619	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.849)	4012	0.08000	0.08496(M)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	9075	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.245	5.245	(0.891)	7759	0.08000	0.08348
* 126 Phenanthrene-d10	188	7.322	7.322	(1.000)	18261	0.10000	
* 182 Chrysene-d12	240	10.017	10.017	(1.000)	12097	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.904	8.904	(0.889)	7185	0.08000	0.08138(M)
* 198 Perylene-d12	264	11.940	11.940	(1.000)	10759	0.10000	(M)
1 1,4-Dioxane	58	1.482	1.482	(0.474)	1283	0.08000	0.08298(QH)

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.
H - Operator selected an alternate compound hit.

01201996

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D

Date : 16-JUN-2023 12:02

Client ID: 14DXICAL-0.08

Instrument: SV6.i

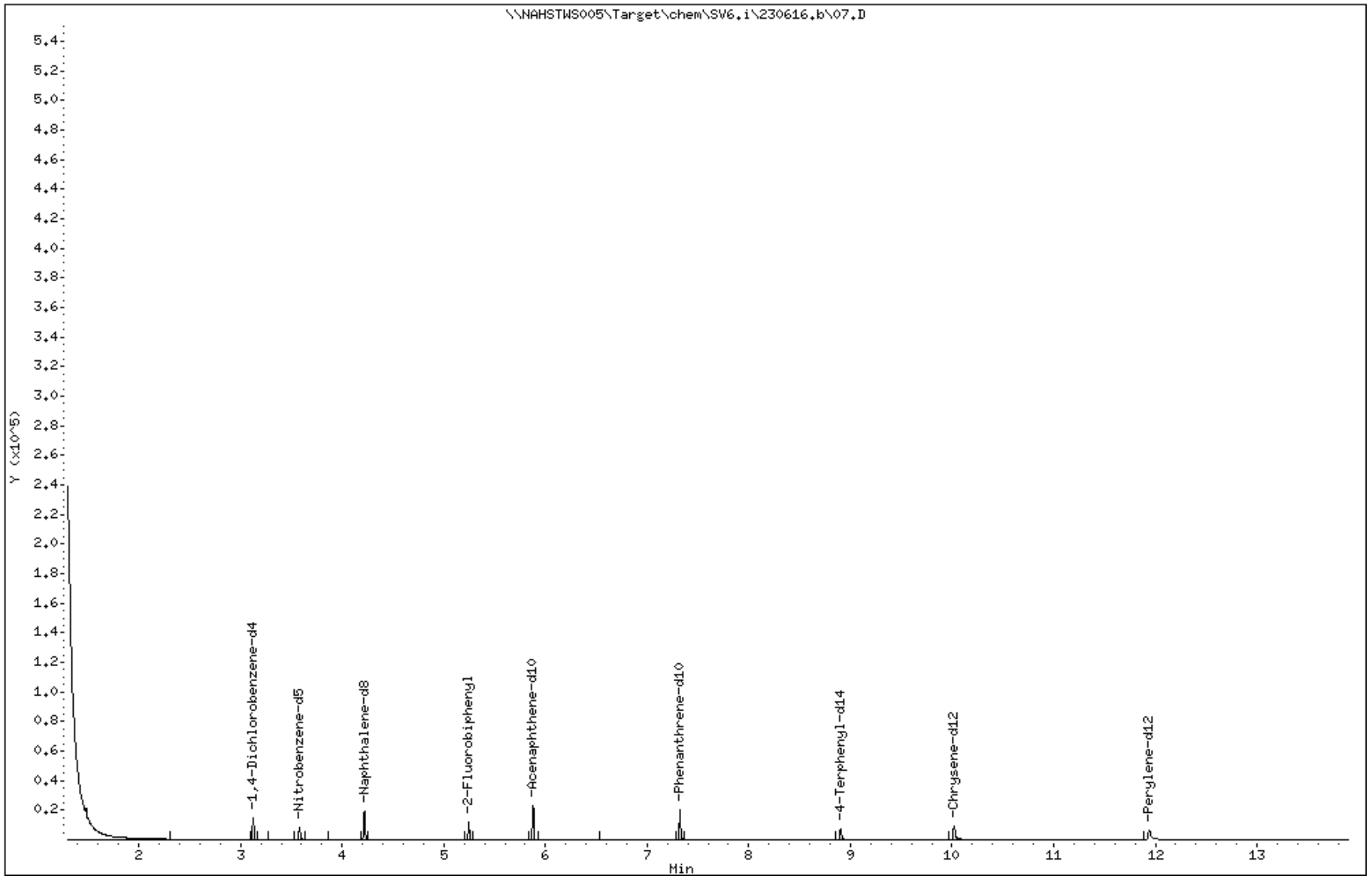
Sample Info: 14DXICAL-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



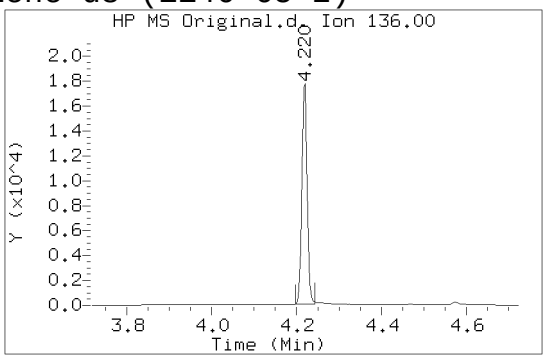
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Inj Date : 16-JUN-2023 12:02
InstruID : SV6.i
LabSampID : 14DXICAL-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

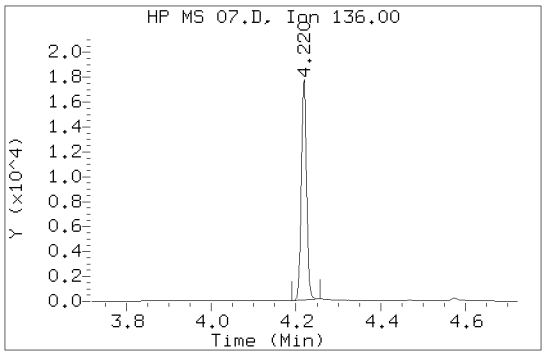
BEFORE

MASS
136
AREA
15744
HEIGHT
17718
16-Jun-2023
12:18
ALSHS
Server



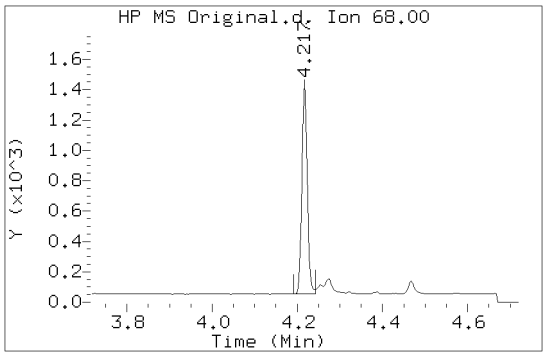
AFTER

MASS
136
AREA
15619
HEIGHT
17670
29-Jun-2023
14:26
ALSHS
Ser



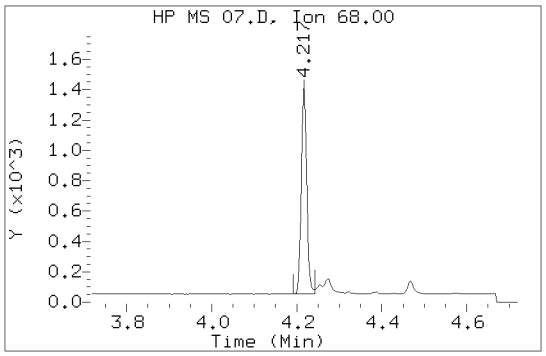
BEFORE

MASS
68
AREA
1209
HEIGHT
1411
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
68
AREA
1209
HEIGHT
1411
29-Jun-2023
14:26
ALSHS
Ser

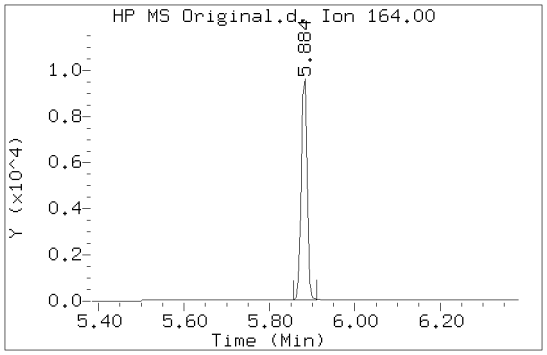


Acenaphthene-d10 (15067-26-2)

Reason Code:

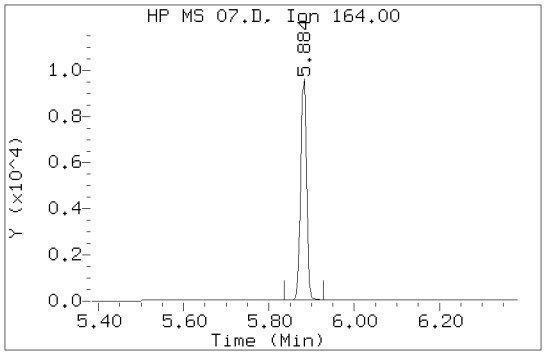
BEFORE

MASS
164
AREA
9060
HEIGHT
9568
16-Jun-2023
12:18
ALSHS
Server



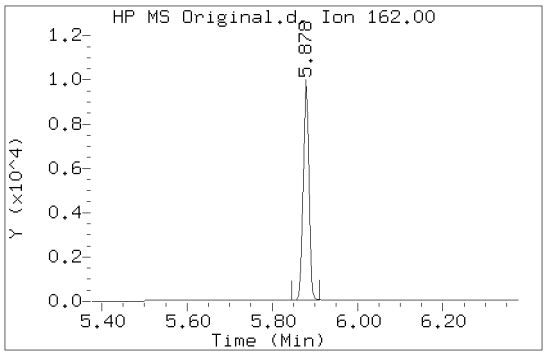
AFTER

MASS
164
AREA
9075
HEIGHT
9571
29-Jun-2023
14:26
ALSHS
Ser



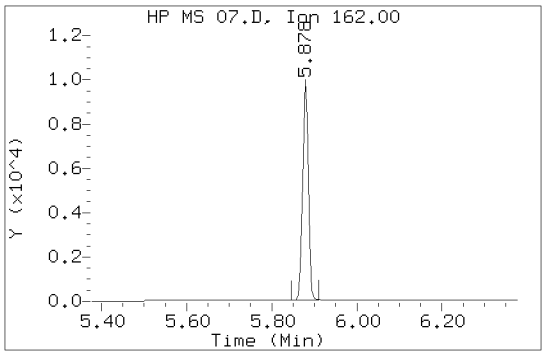
BEFORE

MASS
162
AREA
9173
HEIGHT
9961
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
162
AREA
9173
HEIGHT
9961
29-Jun-2023
14:26
ALSHS
Ser



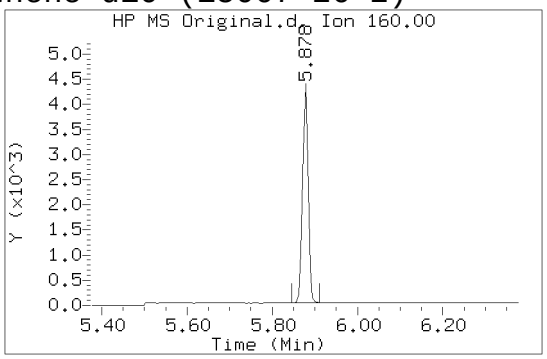
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Inj Date : 16-JUN-2023 12:02
InstruID : SV6.i
LabSampID : 14DXICAL-0.08

Acenaphthene-d10 (15067-26-2)

Reason Code:

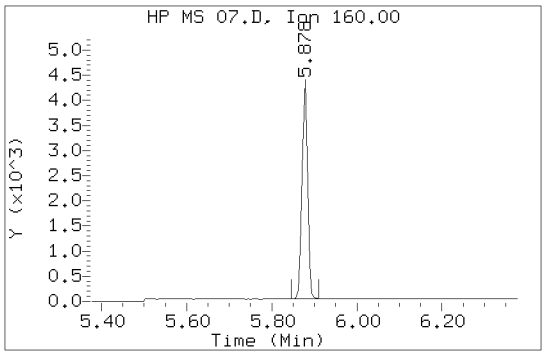
BEFORE

MASS
160
AREA
3928
HEIGHT
4365
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
160
AREA
3928
HEIGHT
4365
29-Jun-2023
14:26
ALSHS
Ser

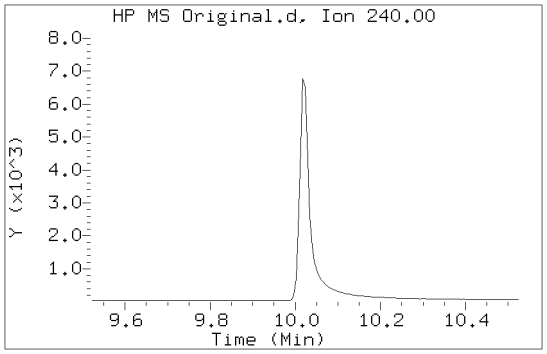


Chrysene-d12 (1719-03-5)

Reason Code:

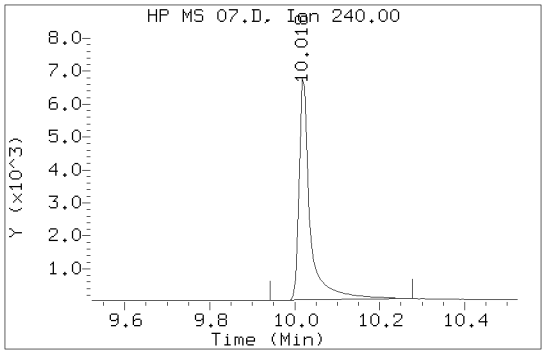
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



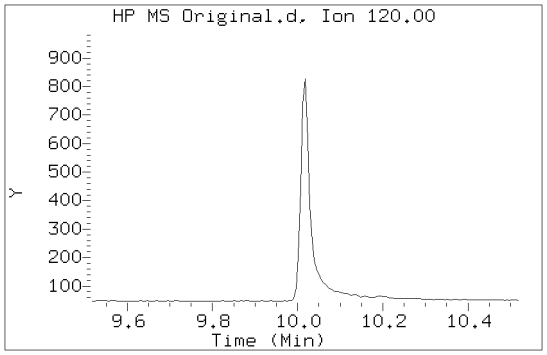
AFTER

MASS
240
AREA
12097
HEIGHT
6713
29-Jun-2023
14:26
ALSHS
Ser



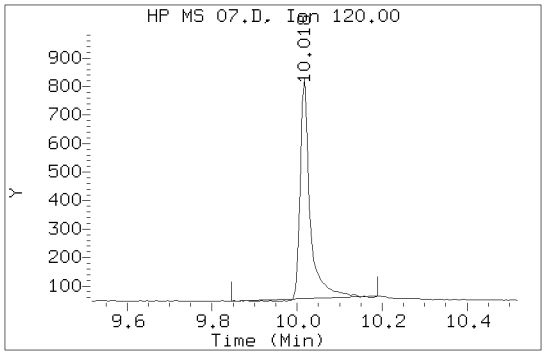
BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



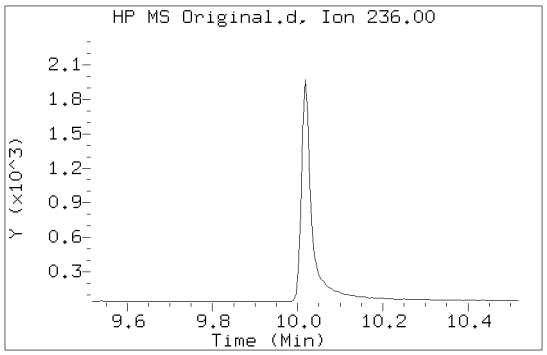
AFTER

MASS
120
AREA
1207
HEIGHT
771
29-Jun-2023
14:26
ALSHS
Ser



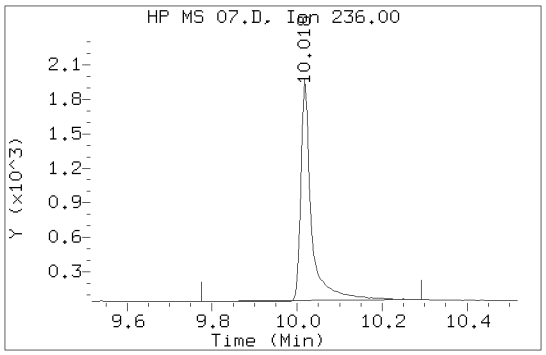
BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
236
AREA
3279
HEIGHT
1919
29-Jun-2023
14:26
ALSHS
Ser



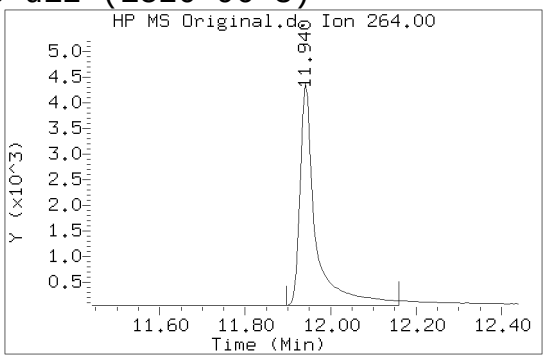
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Inj Date : 16-JUN-2023 12:02
InstruID : SV6.i
LabSampID : 14DXICAL-0.08

Perylene-d12 (1520-96-3)

Reason Code:

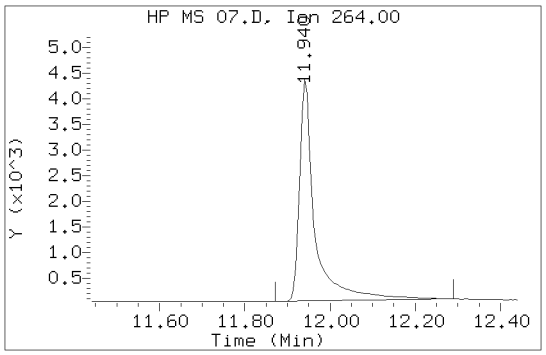
BEFORE

MASS
264
AREA
10879
HEIGHT
4324
16-Jun-2023
12:18
ALSHS
Server



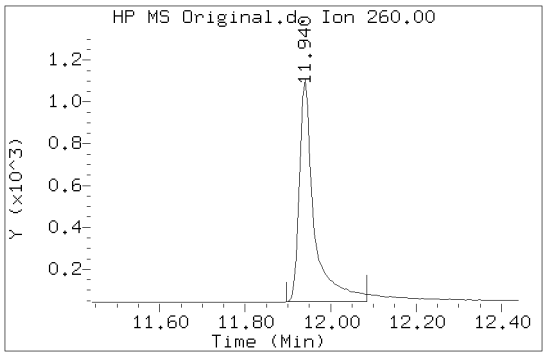
AFTER

MASS
264
AREA
10759
HEIGHT
4317
29-Jun-2023
14:26
ALSHS
Ser



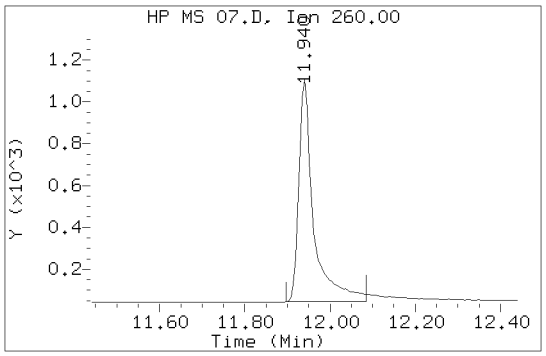
BEFORE

MASS
260
AREA
2559
HEIGHT
1060
16-Jun-2023
12:18
ALSHS
Server



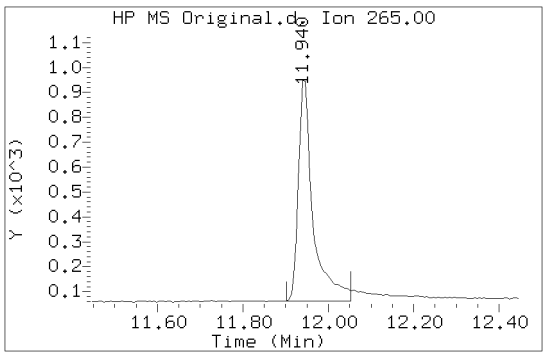
AFTER

MASS
260
AREA
2559
HEIGHT
1060
29-Jun-2023
14:26
ALSHS
Ser



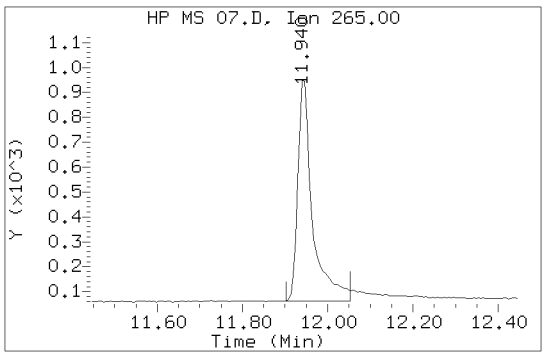
BEFORE

MASS
265
AREA
2115
HEIGHT
884
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
265
AREA
2115
HEIGHT
884
29-Jun-2023
14:26
ALSHS
Ser

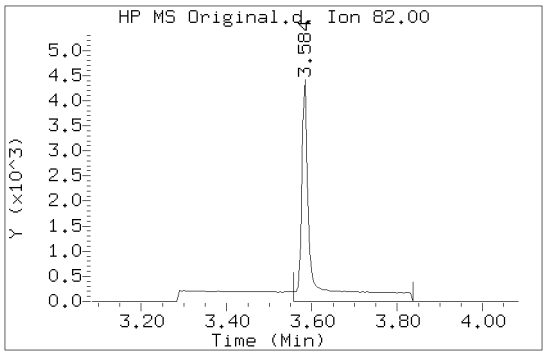


Nitrobenzene-d5 (4165-60-0)

Reason Code:

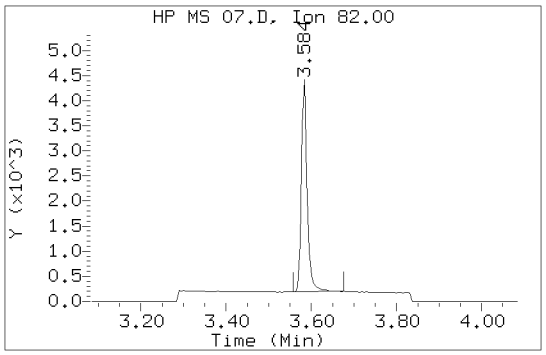
BEFORE

MASS
82
AREA
7140
HEIGHT
4418
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
82
AREA
4012
HEIGHT
4226
29-Jun-2023
14:26
ALSHS
Ser



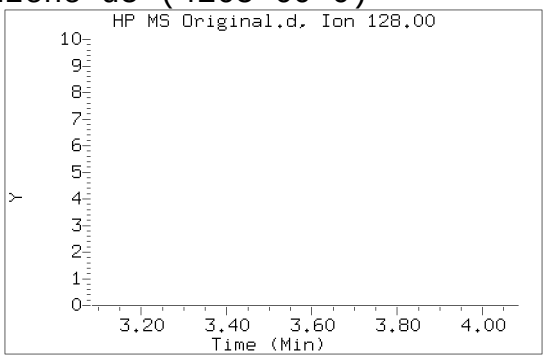
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Inj Date : 16-JUN-2023 12:02
InstruID : SV6.i
LabSampID : 14DXICAL-0.08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

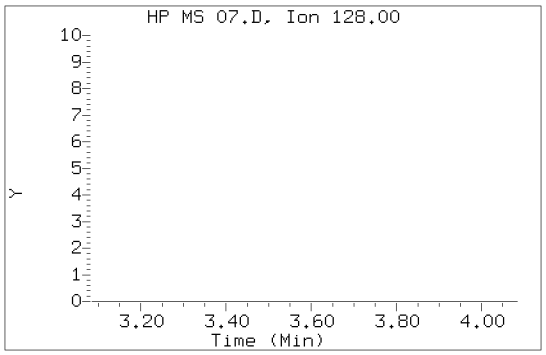
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



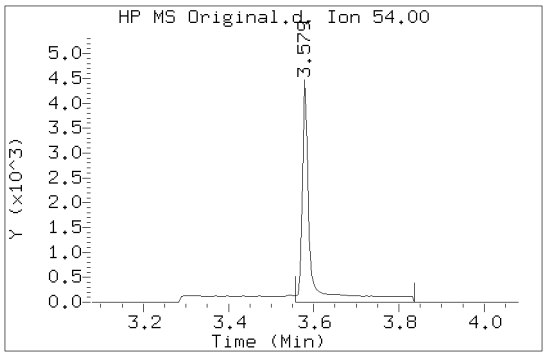
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:26
ALSHS
Ser



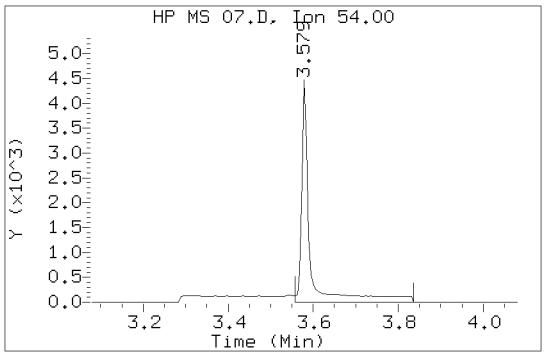
BEFORE

MASS
54
AREA
6137
HEIGHT
4470
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
54
AREA
6137
HEIGHT
4470
29-Jun-2023
14:26
ALSHS
Ser

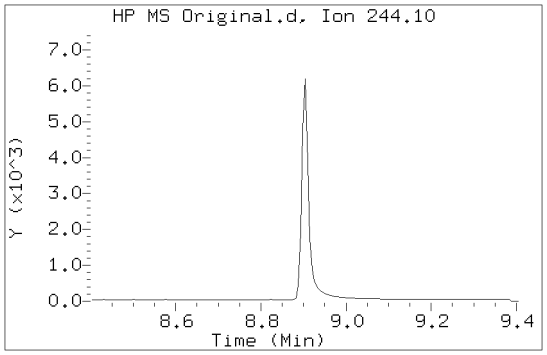


4-Terphenyl-d14 (1718-51-0)

Reason Code:

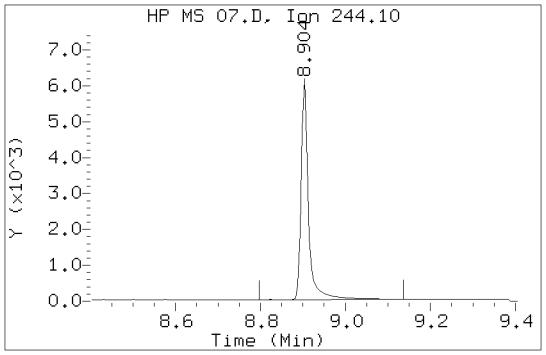
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



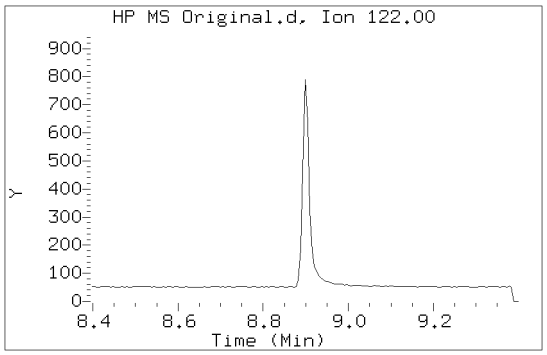
AFTER

MASS
244.1
AREA
7185
HEIGHT
6143
29-Jun-2023
14:26
ALSHS
Ser



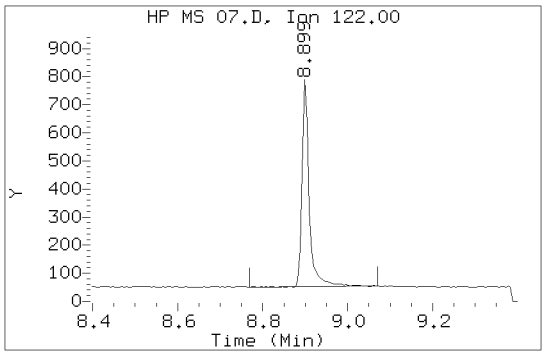
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
122
AREA
850
HEIGHT
736
29-Jun-2023
14:26
ALSHS
Ser



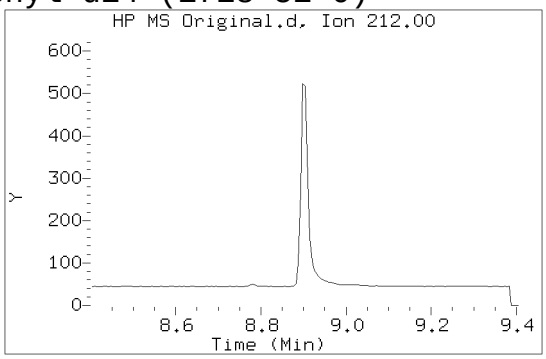
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Inj Date : 16-JUN-2023 12:02
InstruID : SV6.i
LabSampID : 14DXICAL-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

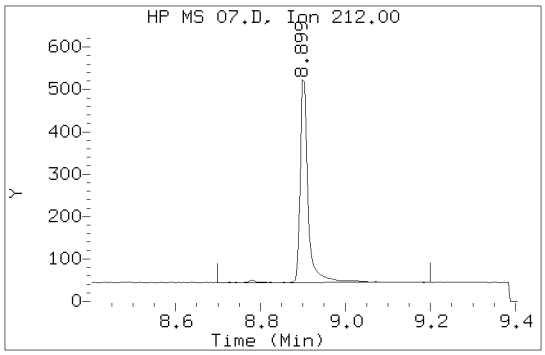
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
212
AREA
622
HEIGHT
478
29-Jun-2023
14:26
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D
Lab Smp Id: 14DXICAL-0.15 Client Smp ID: 14DXICAL-0.15
Inj Date : 16-JUN-2023 12:38
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.15
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 12:20 Cal File: 08.D
Als bottle: 9 Calibration Sample, Level: 6
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	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.128	3.128	(1.000)	3901	0.10000	(aM)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	13349	0.10000	
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.849)	6134	0.15000	0.1520(AQM)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	7708	0.10000	
$ 69 2-Fluorobiphenyl	172	5.245	5.245	(0.891)	11636	0.15000	0.1474
* 126 Phenanthrene-d10	188	7.323	7.323	(1.000)	15157	0.10000	
* 182 Chrysene-d12	240	10.018	10.018	(1.000)	10131	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.904	8.904	(0.889)	10881	0.15000	0.1472(M)
* 198 Perylene-d12	264	11.940	11.940	(1.000)	7987	0.10000	(M)
1 1,4-Dioxane	58	1.464	1.464	(0.468)	1980	0.15000	0.1507(QH)

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.
H - Operator selected an alternate compound hit.

01202004

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D

Date : 16-JUN-2023 12:38

Client ID: 14DXICAL-0.15

Instrument: SV6.i

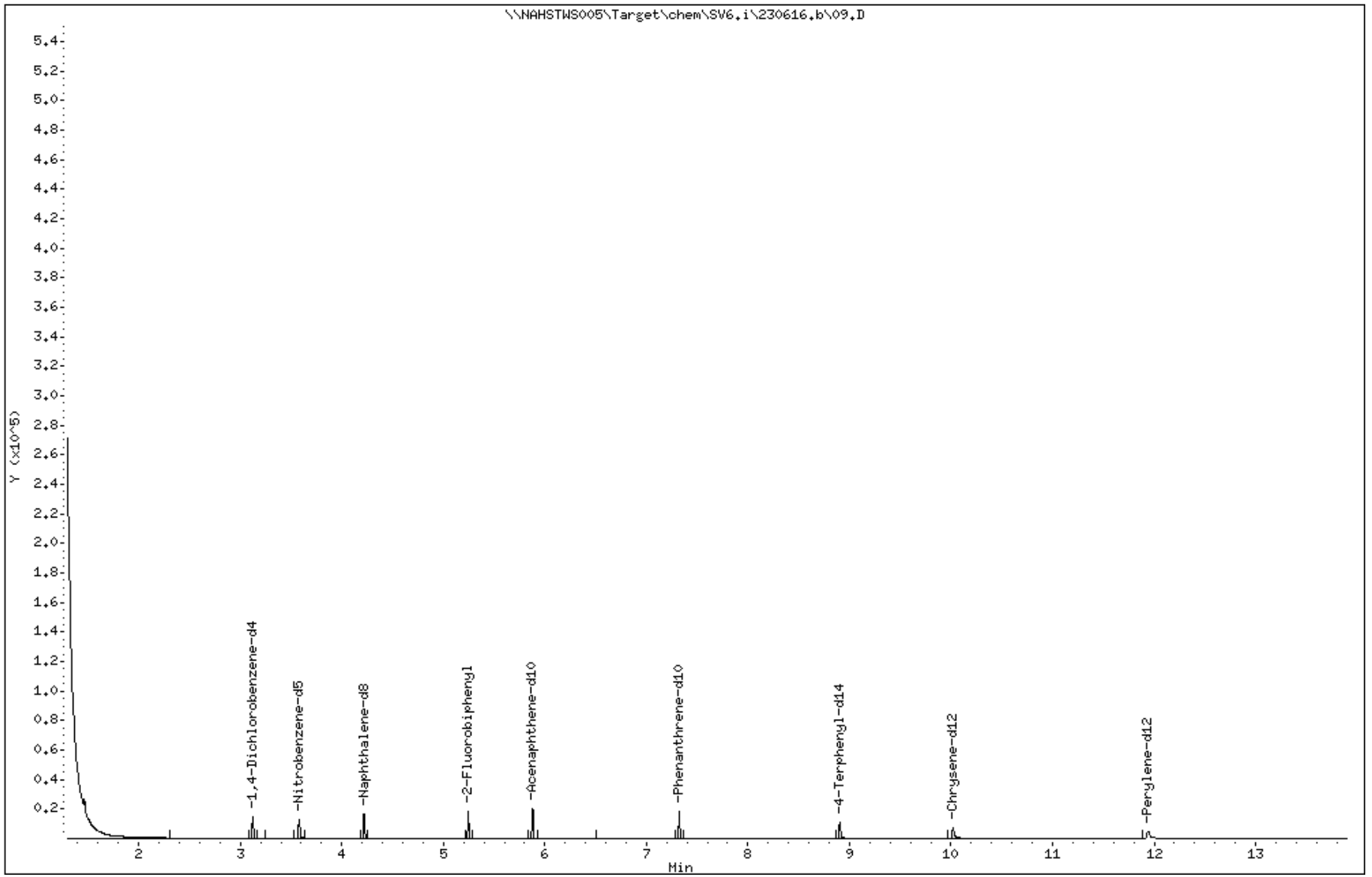
Sample Info: 14DXICAL-0.15

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



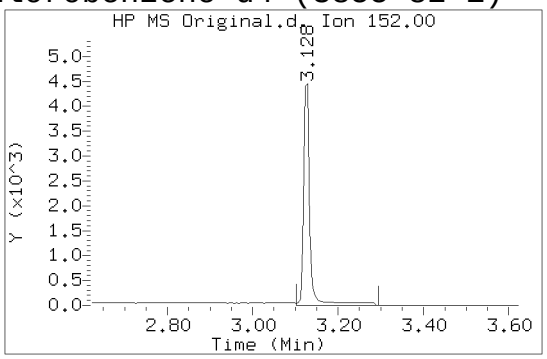
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D
Inj Date : 16-JUN-2023 12:38
InstruID : SV6.i
LabSampID : 14DXICAL-0.15

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

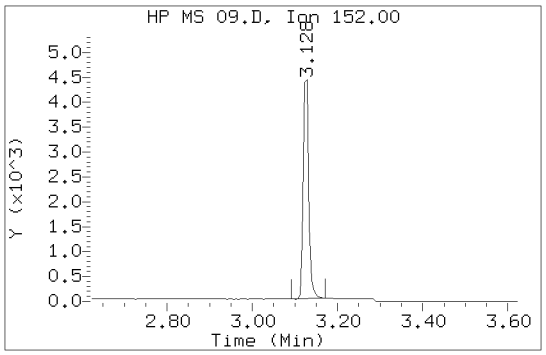
BEFORE

MASS
152
AREA
4505
HEIGHT
4453
16-Jun-2023
12:57
ALSHS
Server



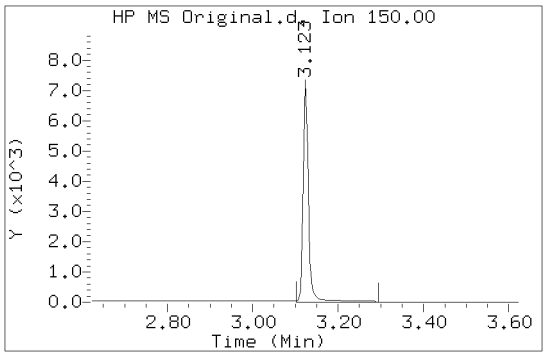
AFTER

MASS
152
AREA
3901
HEIGHT
4398
29-Jun-2023
14:27
ALSHS
Ser



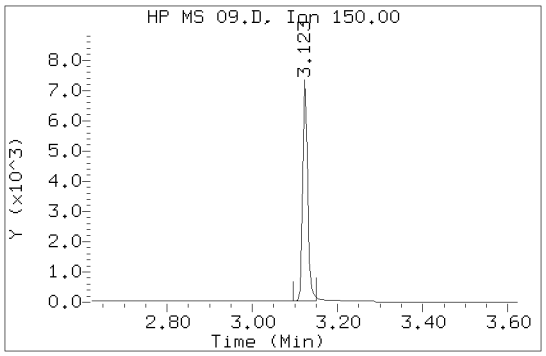
BEFORE

MASS
150
AREA
6326
HEIGHT
7351
16-Jun-2023
12:57
ALSHS
Server



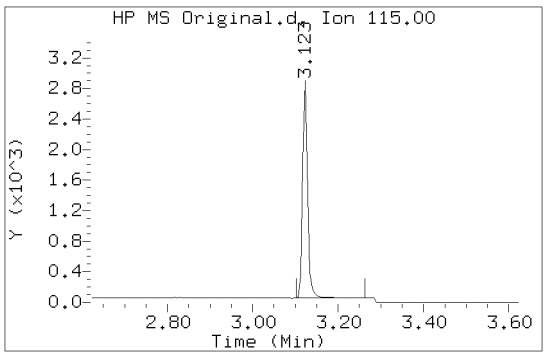
AFTER

MASS
150
AREA
5706
HEIGHT
7305
29-Jun-2023
14:27
ALSHS
Ser



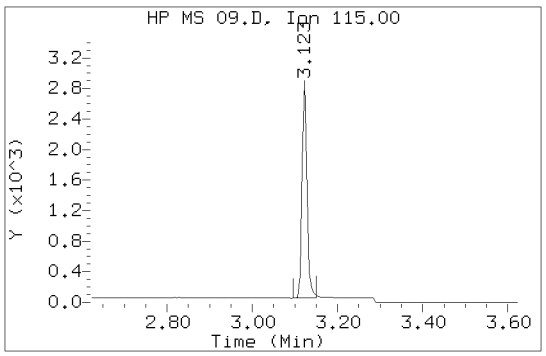
BEFORE

MASS
115
AREA
2255
HEIGHT
2847
16-Jun-2023
12:57
ALSHS
Server



AFTER

MASS
115
AREA
2210
HEIGHT
2846
29-Jun-2023
14:27
ALSHS
Ser

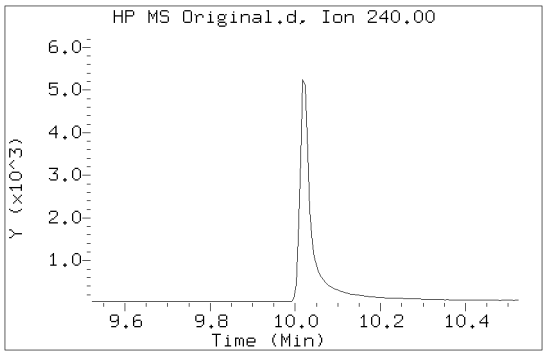


Chrysene-d12 (1719-03-5)

Reason Code:

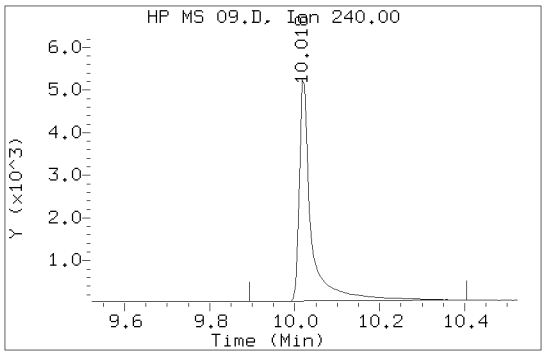
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



AFTER

MASS
240
AREA
10131
HEIGHT
5190
29-Jun-2023
14:27
ALSHS
Ser



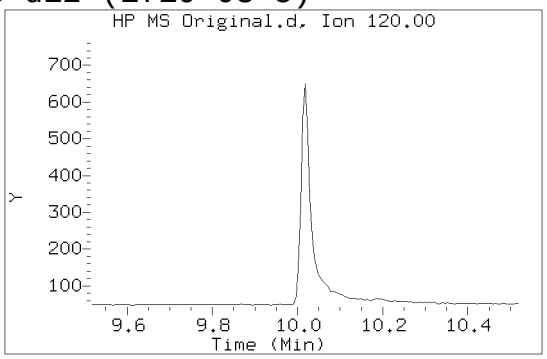
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D
Inj Date : 16-JUN-2023 12:38
InstruID : SV6.i
LabSampID : 14DXICAL-0.15

Chrysene-d12 (1719-03-5)

Reason Code:

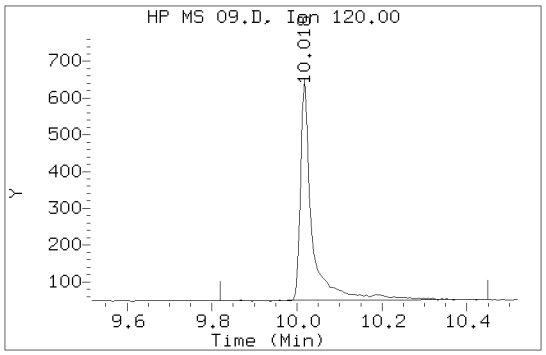
BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



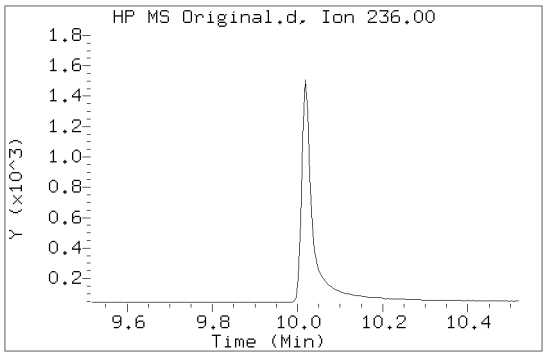
AFTER

MASS
120
AREA
1131
HEIGHT
600
29-Jun-2023
14:27
ALSHS
Ser



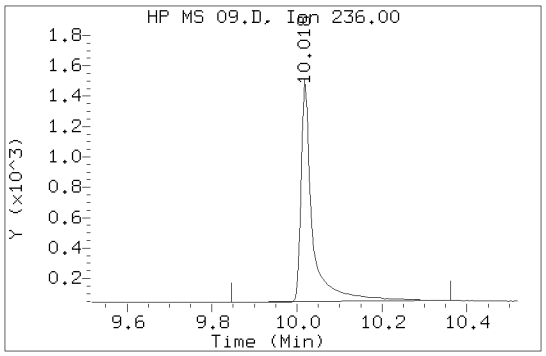
BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



AFTER

MASS
236
AREA
2695
HEIGHT
1458
29-Jun-2023
14:27
ALSHS
Ser

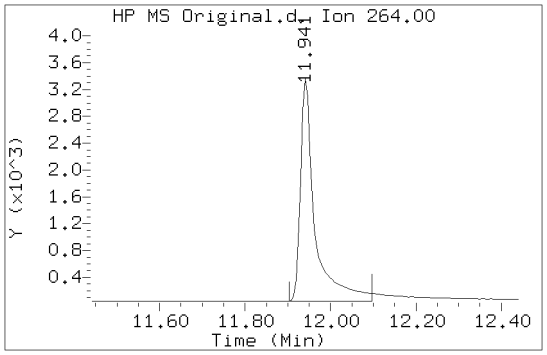


Perylene-d12 (1520-96-3)

Reason Code:

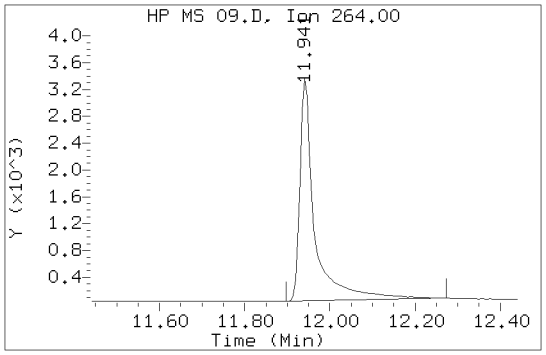
BEFORE

MASS
264
AREA
7735
HEIGHT
3310
16-Jun-2023
12:57
ALSHS
Server



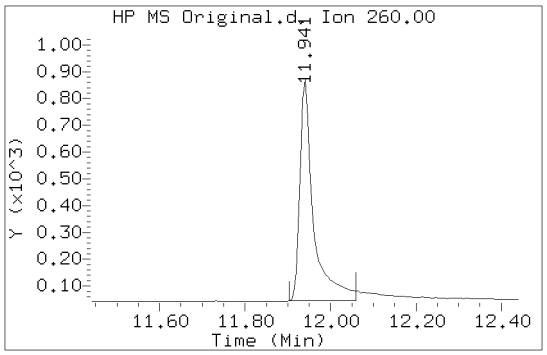
AFTER

MASS
264
AREA
7987
HEIGHT
3307
29-Jun-2023
14:27
ALSHS
Ser



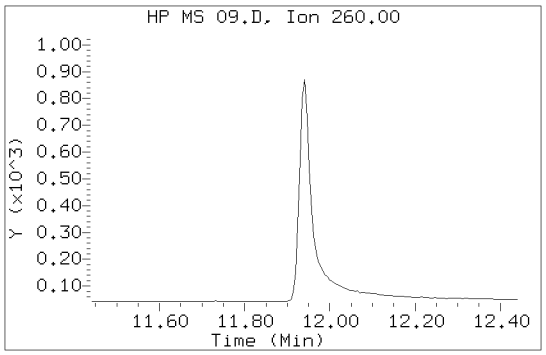
BEFORE

MASS
260
AREA
1816
HEIGHT
824
16-Jun-2023
12:57
ALSHS
Server



AFTER

MASS
260
AREA
2012
HEIGHT
823
29-Jun-2023
14:27
ALSHS
Ser



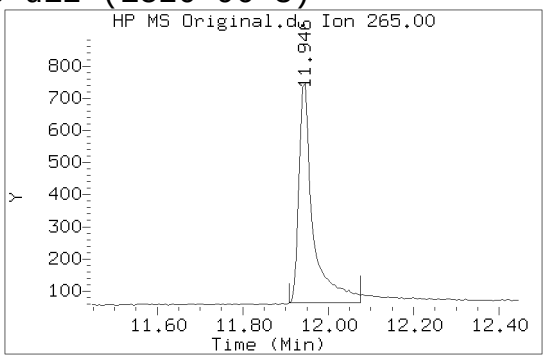
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D
Inj Date : 16-JUN-2023 12:38
InstruID : SV6.i
LabSampID : 14DXICAL-0.15

Perylene-d12 (1520-96-3)

Reason Code:

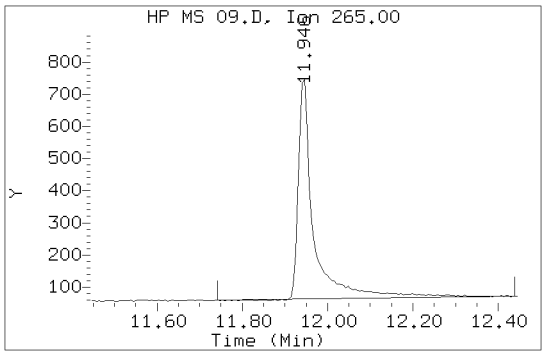
BEFORE

MASS
265
AREA
1571
HEIGHT
682
16-Jun-2023
12:57
ALSHS
Server



AFTER

MASS
265
AREA
1706
HEIGHT
682
29-Jun-2023
14:27
ALSHS
Ser

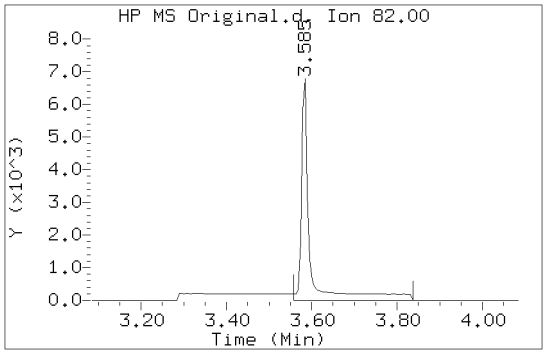


Nitrobenzene-d5 (4165-60-0)

Reason Code:

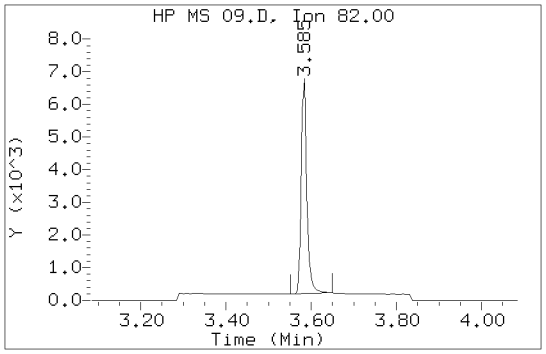
BEFORE

MASS
82
AREA
9487
HEIGHT
6787
16-Jun-2023
12:57
ALSHS
Server



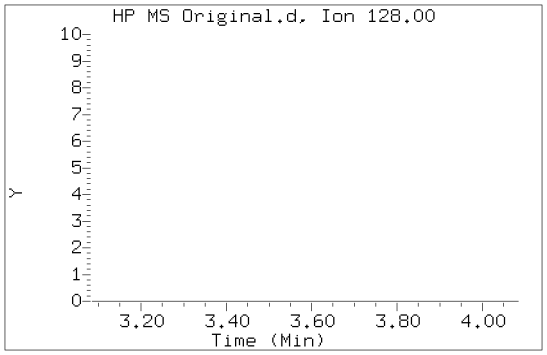
AFTER

MASS
82
AREA
6134
HEIGHT
6582
29-Jun-2023
14:27
ALSHS
Ser



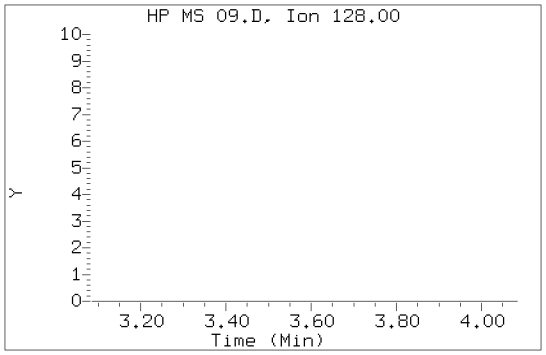
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



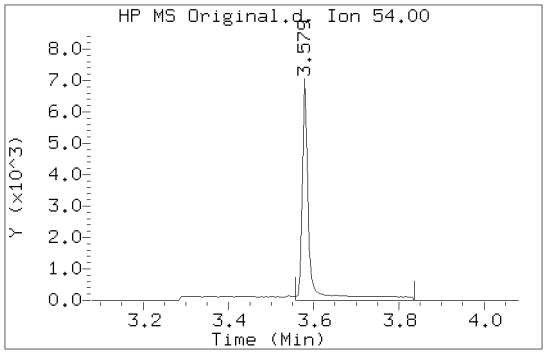
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser



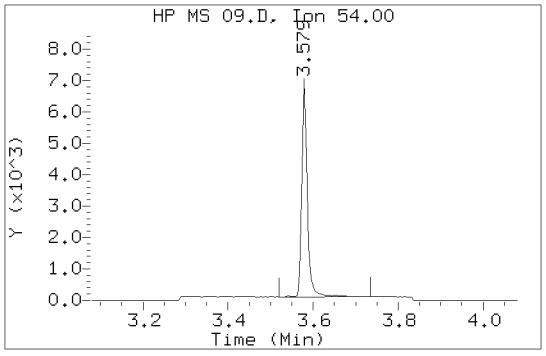
BEFORE

MASS
54
AREA
8200
HEIGHT
7059
16-Jun-2023
12:57
ALSHS
Server



AFTER

MASS
54
AREA
6294
HEIGHT
6945
29-Jun-2023
14:27
ALSHS
Ser

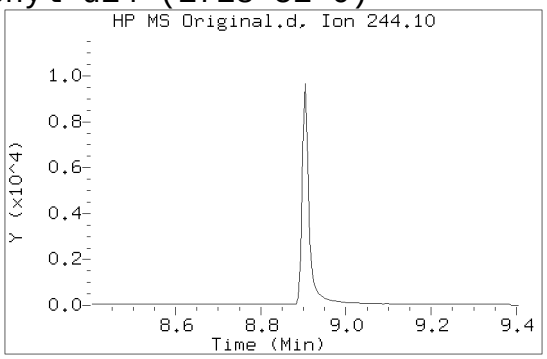


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D
Inj Date : 16-JUN-2023 12:38
InstruID : SV6.i
LabSampID : 14DXICAL-0.15

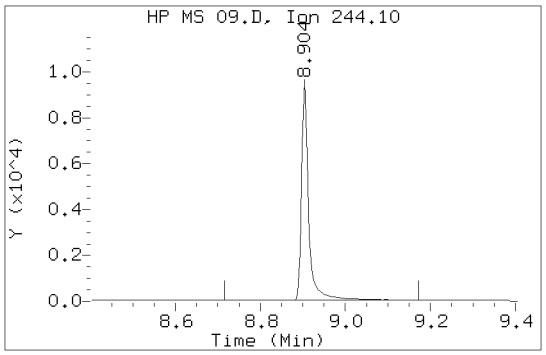
4-Terphenyl-d14 (1718-51-0)

Reason Code:

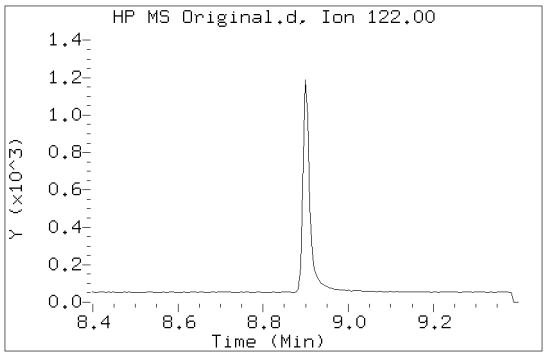
BEFORE
MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



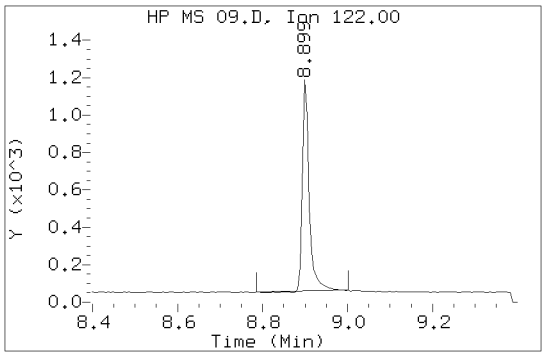
AFTER
MASS
244.1
AREA
10881
HEIGHT
9614
29-Jun-2023
14:27
ALSHS
Ser



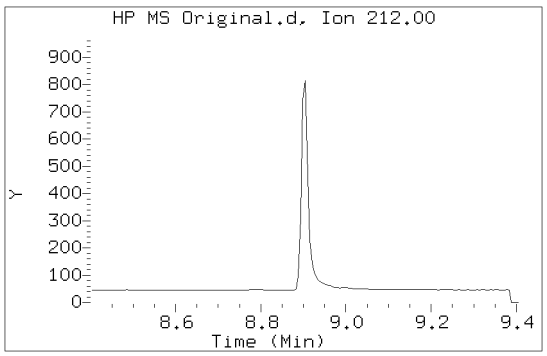
BEFORE
MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



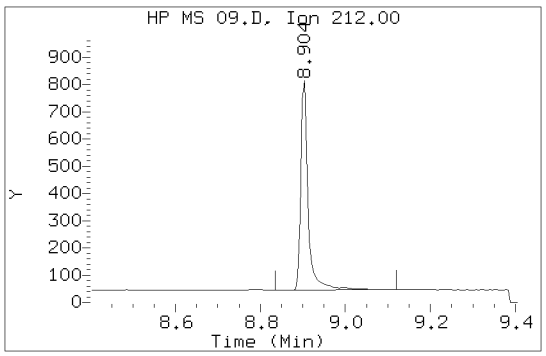
AFTER
MASS
122
AREA
1222
HEIGHT
1128
29-Jun-2023
14:27
ALSHS
Ser



BEFORE
MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



AFTER
MASS
212
AREA
918
HEIGHT
769
29-Jun-2023
14:27
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D Page 1
Report Date: 29-Jun-2023 15:48

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Lab Smp Id: 14DXICAL-0.1 Client Smp ID: 14DXICAL-0.1
Inj Date : 16-JUN-2023 14:15
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.1
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 15:48 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 12 Calibration Sample, Level: 5
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	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.128	3.128	(1.000)	4026	0.10000	(aM)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	13383	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.849)	4123	0.10000	0.1019(QM)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	7945	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.248	5.248	(0.892)	7708	0.10000	0.09473(M)
* 126 Phenanthrene-d10	188	7.328	7.328	(1.000)	15519	0.10000	(M)
* 182 Chrysene-d12	240	10.028	10.028	(1.000)	9988	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.909	8.909	(0.888)	7529	0.10000	0.1033(M)
* 198 Perylene-d12	264	11.946	11.946	(1.000)	8963	0.10000	(M)
1 1,4-Dioxane	58	1.471	1.471	(0.470)	1445	0.10000	0.1066(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.

01202010

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D

Date : 16-JUN-2023 14:15

Client ID: 14DXICAL-0.1

Instrument: SV6.i

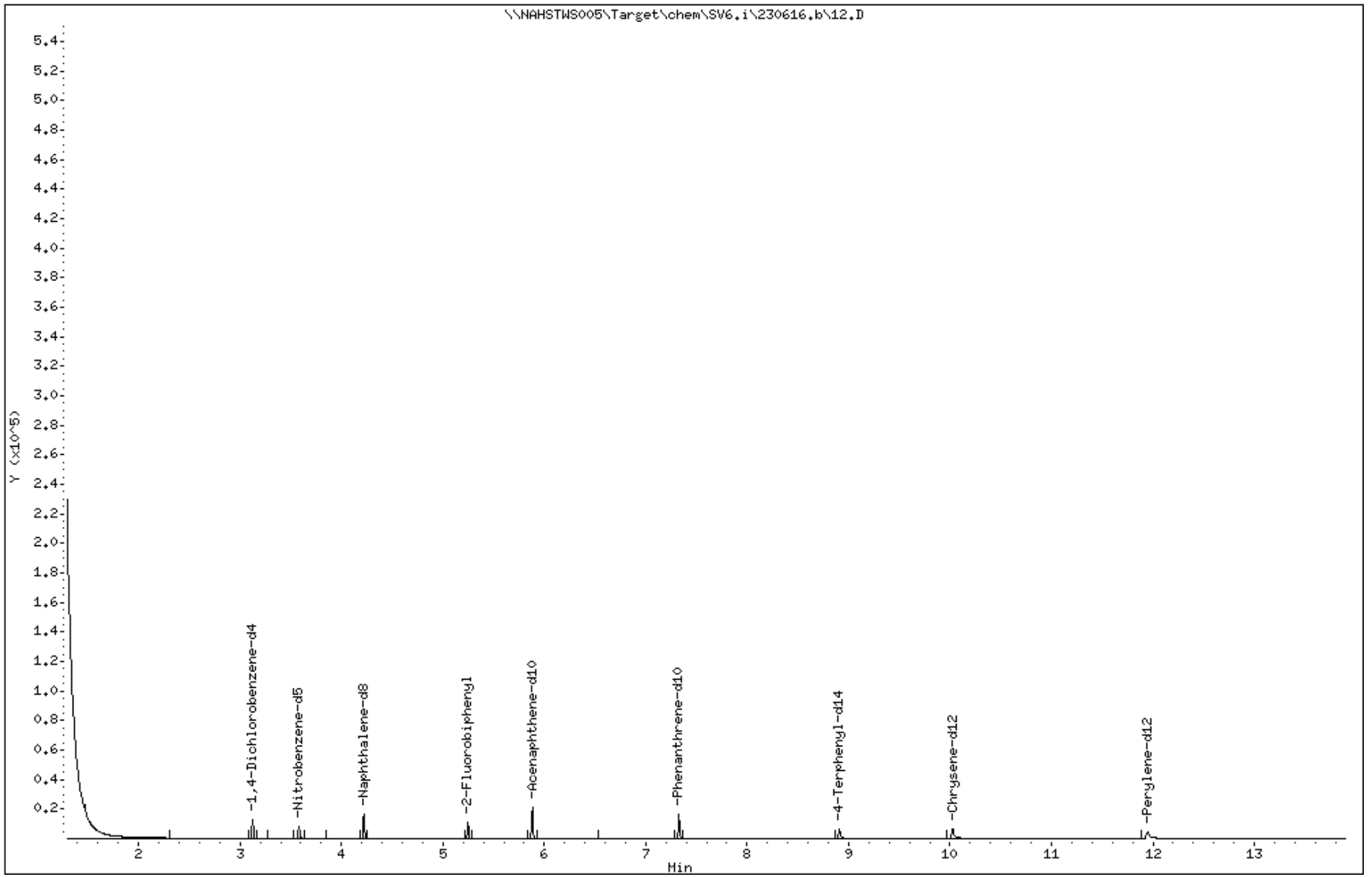
Sample Info: 14DXICAL-0.1

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

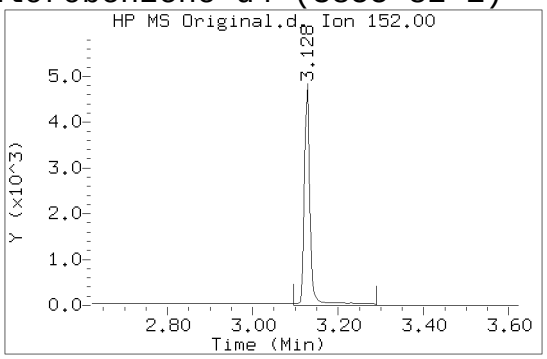


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

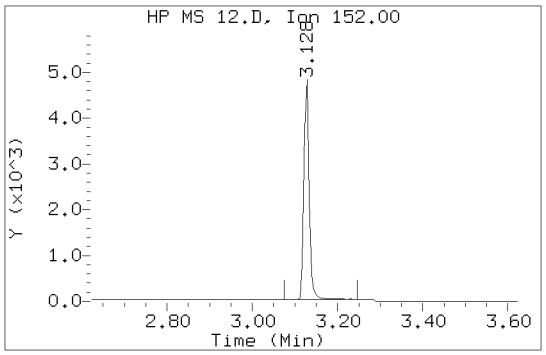
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

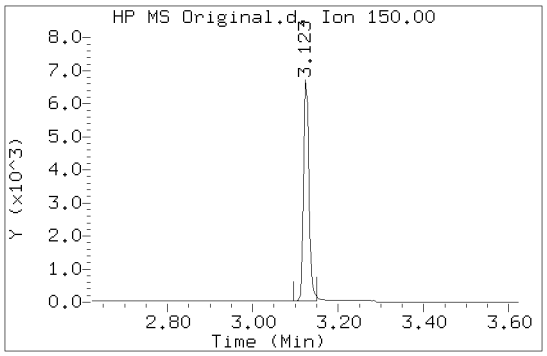
BEFORE
MASS
152
AREA
4570
HEIGHT
4842
16-Jun-2023
14:59
jiayi
lu



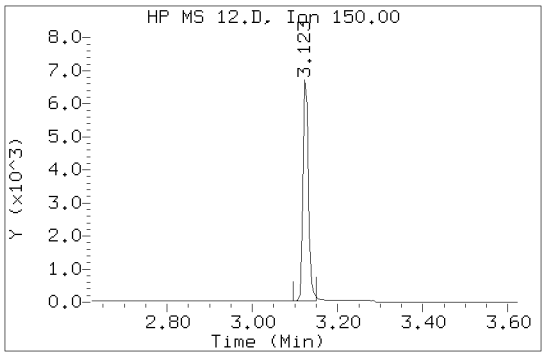
AFTER
MASS
152
AREA
4026
HEIGHT
4796
29-Jun-2023
15:48



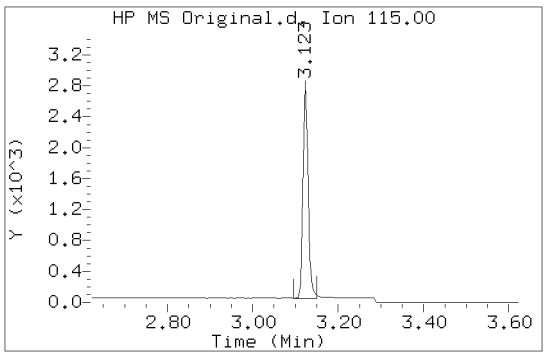
BEFORE
MASS
150
AREA
5752
HEIGHT
6676
16-Jun-2023
14:59
jiayi
lu



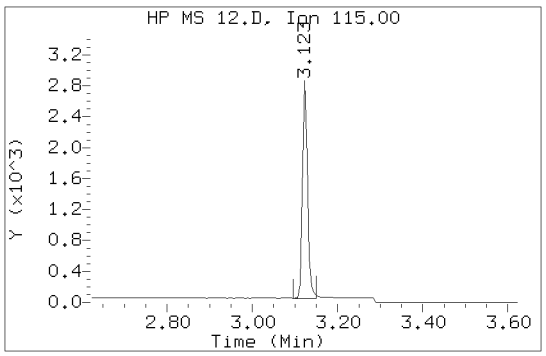
AFTER
MASS
150
AREA
5752
HEIGHT
6676
29-Jun-2023
15:48



BEFORE
MASS
115
AREA
2249
HEIGHT
2814
16-Jun-2023
14:59
jiayi
lu



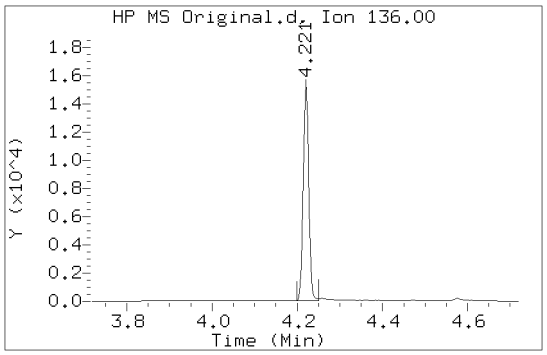
AFTER
MASS
115
AREA
2249
HEIGHT
2814
29-Jun-2023
15:48



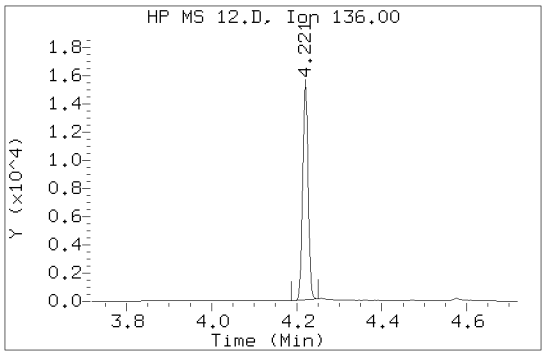
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
13619
HEIGHT
15676
16-Jun-2023
14:59
jiayi
lu



AFTER
MASS
136
AREA
13383
HEIGHT
15614
29-Jun-2023
15:48



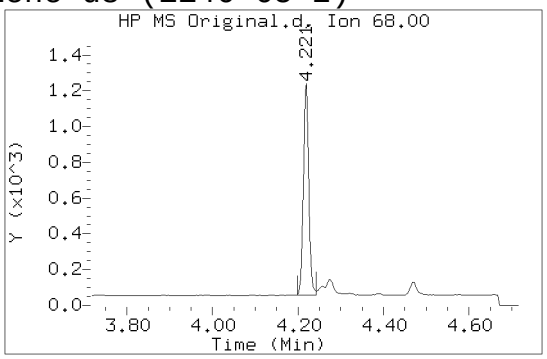
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

Naphthalene-d8 (1146-65-2)

Reason Code:

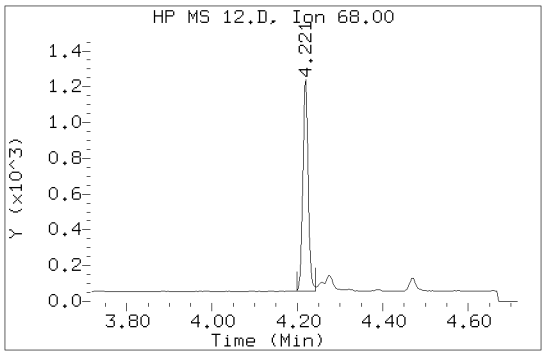
BEFORE

MASS
68
AREA
1062
HEIGHT
1182
16-Jun-2023
14:59
jiayi
lu



AFTER

MASS
68
AREA
1062
HEIGHT
1182
29-Jun-2023
15:48

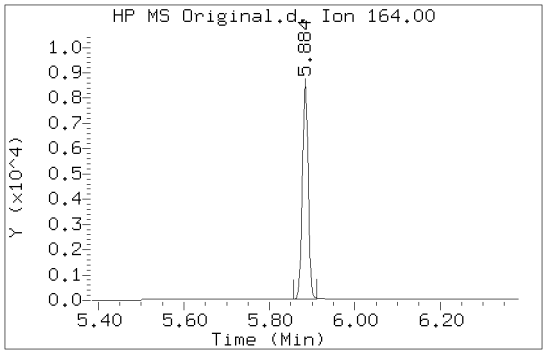


Acenaphthene-d10 (15067-26-2)

Reason Code:

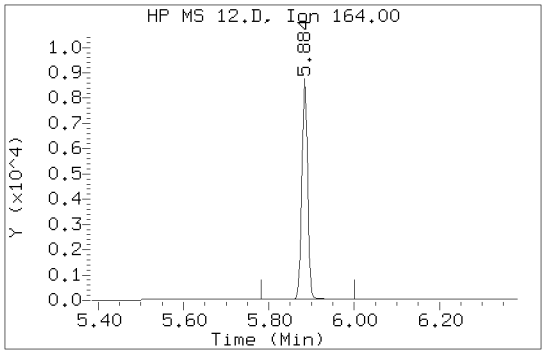
BEFORE

MASS
164
AREA
7893
HEIGHT
8717
16-Jun-2023
14:59
jiayi
lu



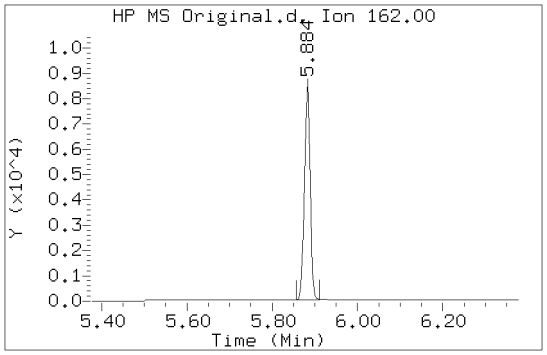
AFTER

MASS
164
AREA
7945
HEIGHT
8719
29-Jun-2023
15:48



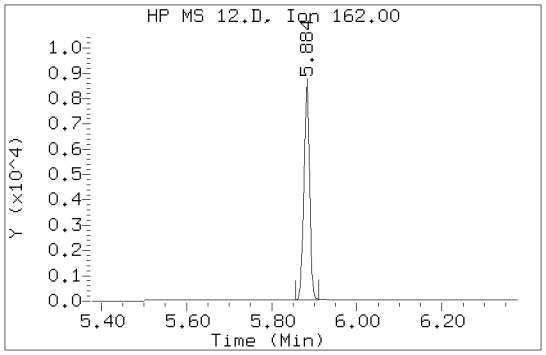
BEFORE

MASS
162
AREA
7978
HEIGHT
8729
16-Jun-2023
14:59
jiayi
lu



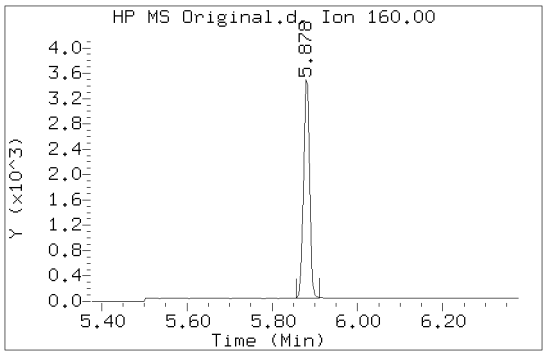
AFTER

MASS
162
AREA
7978
HEIGHT
8729
29-Jun-2023
15:48



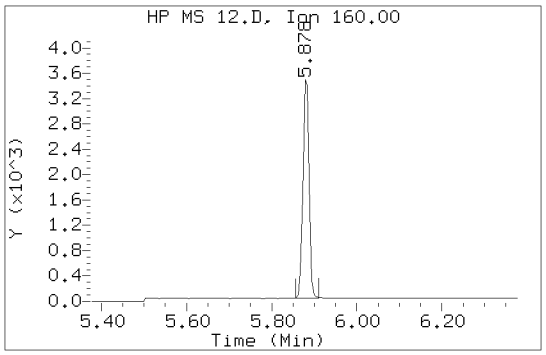
BEFORE

MASS
160
AREA
3420
HEIGHT
3449
16-Jun-2023
14:59
jiayi
lu



AFTER

MASS
160
AREA
3420
HEIGHT
3449
29-Jun-2023
15:48



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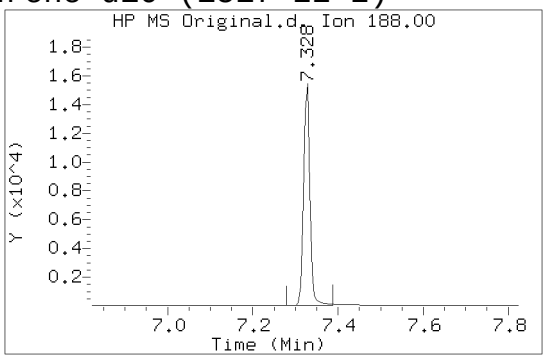
Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

Phenanthrene-d10 (1517-22-2)

Reason Code:

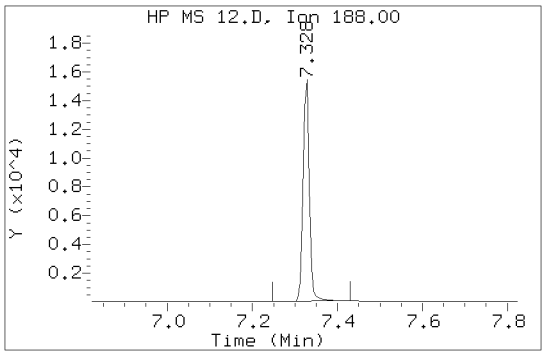
BEFORE

MASS
188
AREA
15580
HEIGHT
15412
16-Jun-2023
14:59
jiayi
lu



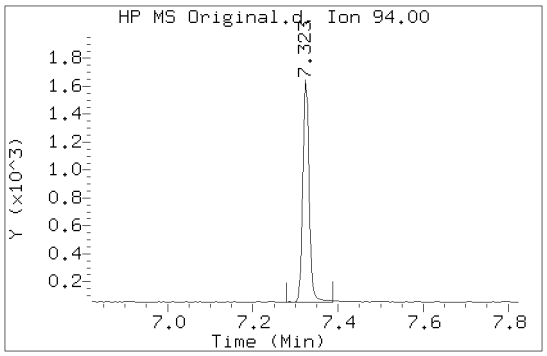
AFTER

MASS
188
AREA
15519
HEIGHT
15398
29-Jun-2023
15:48



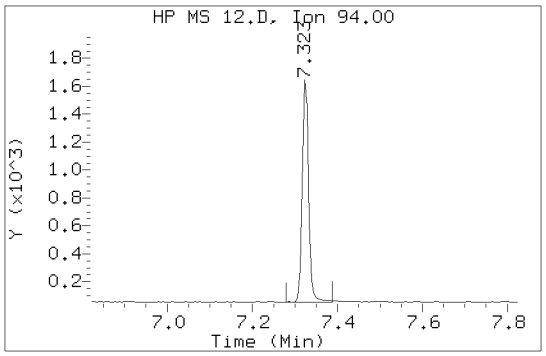
BEFORE

MASS
94
AREA
1615
HEIGHT
1589
16-Jun-2023
14:59
jiayi
lu



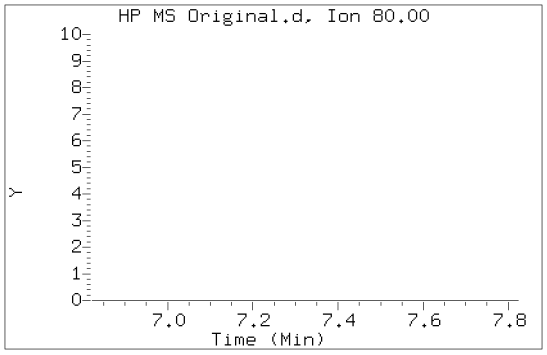
AFTER

MASS
94
AREA
1615
HEIGHT
1589
29-Jun-2023
15:48



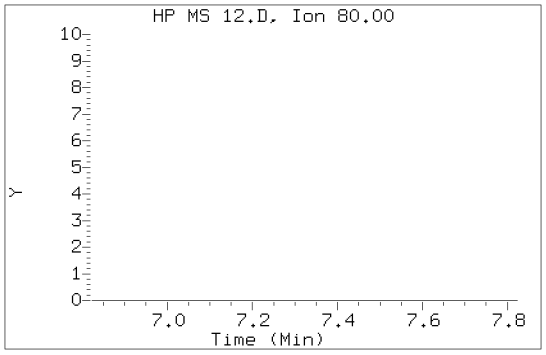
BEFORE

MASS
80
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



AFTER

MASS
80
AREA
0
HEIGHT
0
29-Jun-2023
15:48

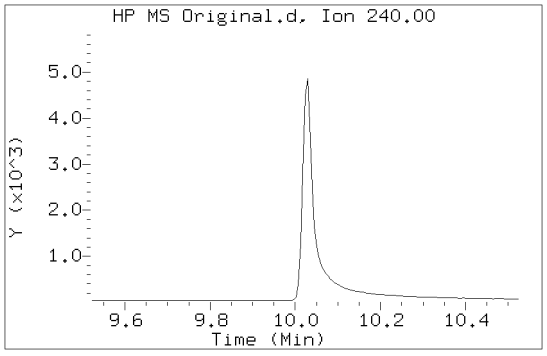


Chrysene-d12 (1719-03-5)

Reason Code:

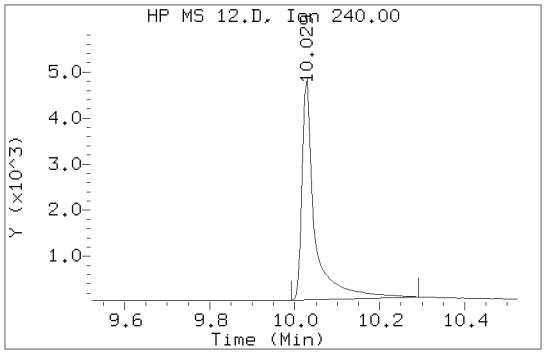
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



AFTER

MASS
240
AREA
9988
HEIGHT
4801
29-Jun-2023
15:48

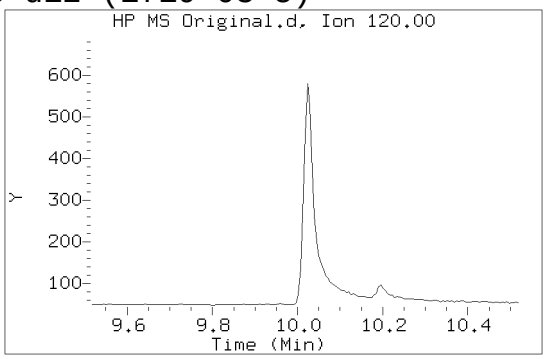


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

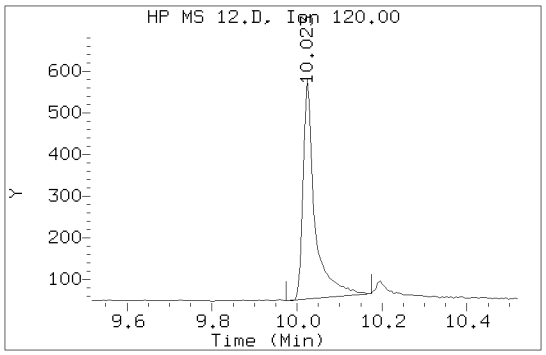
Chrysene-d12 (1719-03-5)

Reason Code:

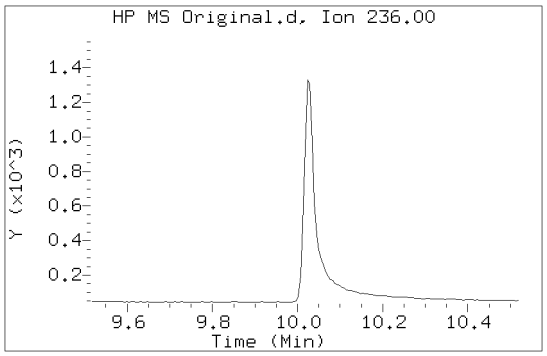
BEFORE
MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



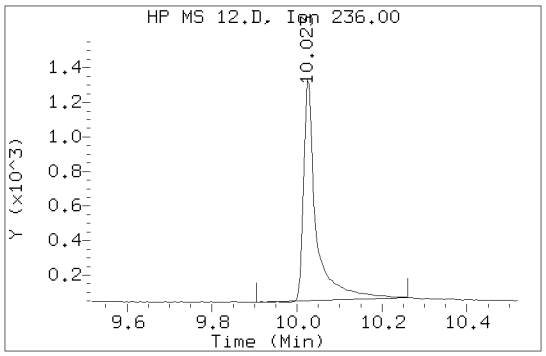
AFTER
MASS
120
AREA
998
HEIGHT
525
29-Jun-2023
15:48



BEFORE
MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



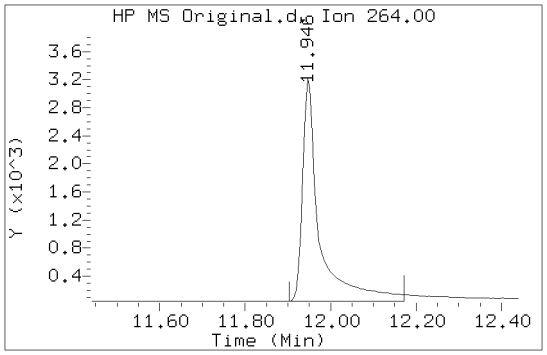
AFTER
MASS
236
AREA
2622
HEIGHT
1277
29-Jun-2023
15:48



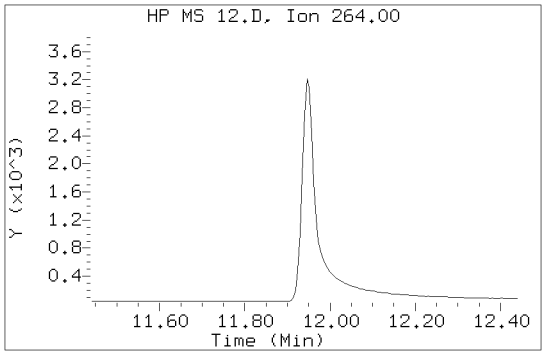
Perylene-d12 (1520-96-3)

Reason Code:

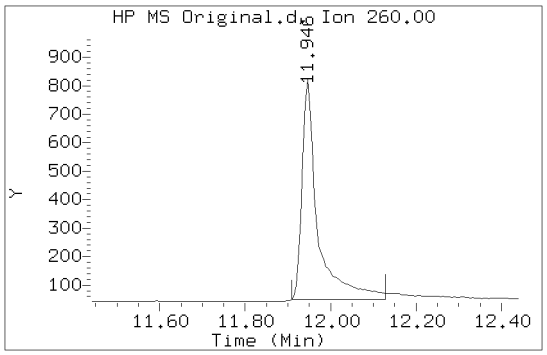
BEFORE
MASS
264
AREA
8613
HEIGHT
3164
16-Jun-2023
14:59
jiayi
lu



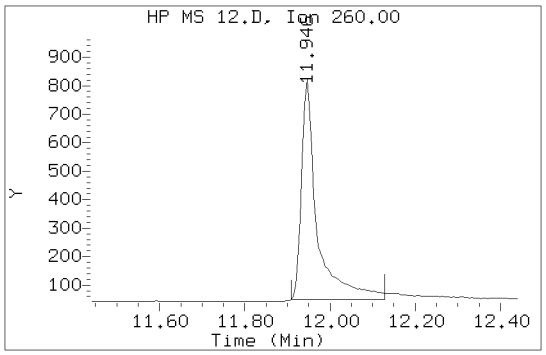
AFTER
MASS
264
AREA
8963
HEIGHT
3161
29-Jun-2023
15:48



BEFORE
MASS
260
AREA
1977
HEIGHT
772
16-Jun-2023
14:59
jiayi
lu



AFTER
MASS
260
AREA
1977
HEIGHT
772
29-Jun-2023
15:48



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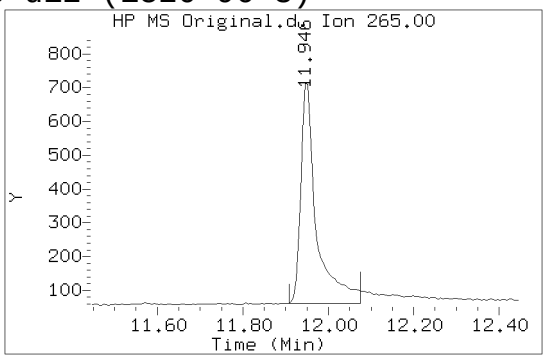
Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

Perylene-d12 (1520-96-3)

Reason Code:

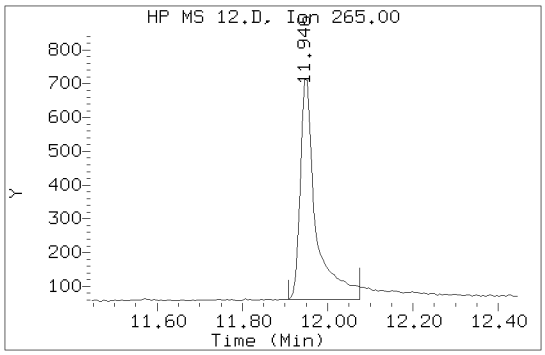
BEFORE

MASS
265
AREA
1666
HEIGHT
651
16-Jun-2023
14:59
jiayi
lu



AFTER

MASS
265
AREA
1666
HEIGHT
651
29-Jun-2023
15:48

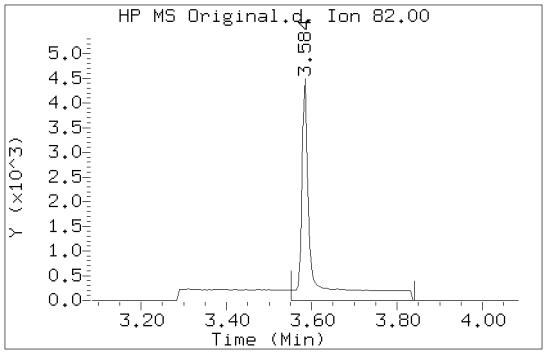


Nitrobenzene-d5 (4165-60-0)

Reason Code:

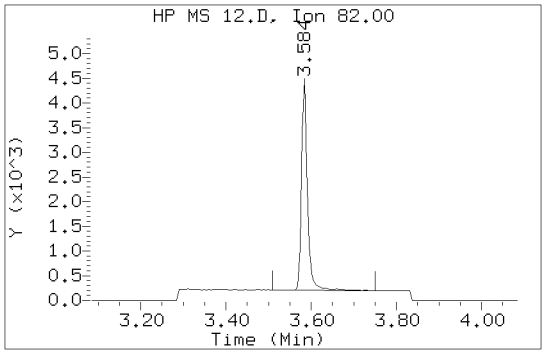
BEFORE

MASS
82
AREA
7524
HEIGHT
4492
16-Jun-2023
14:59
jiayi
lu



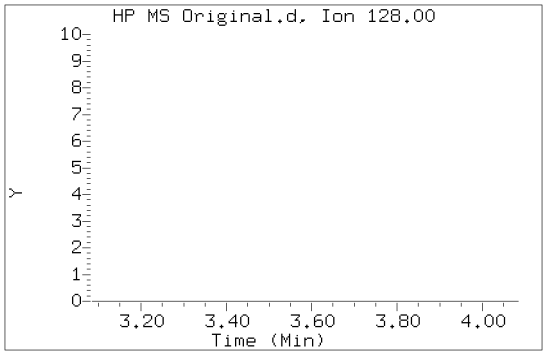
AFTER

MASS
82
AREA
4123
HEIGHT
4285
29-Jun-2023
15:48



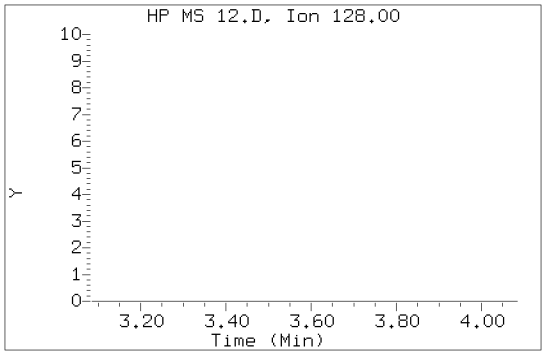
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



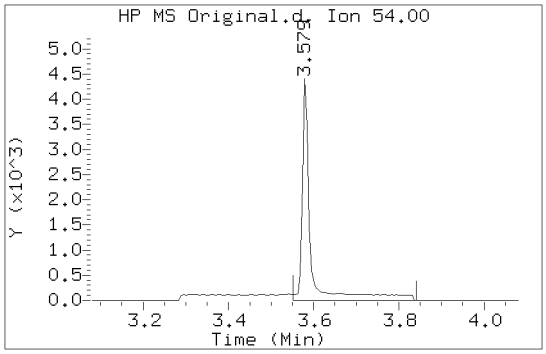
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
15:48



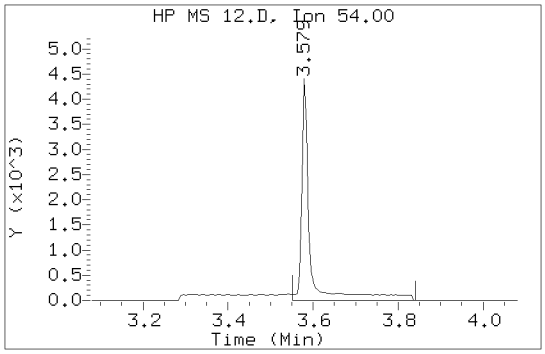
BEFORE

MASS
54
AREA
6015
HEIGHT
4407
16-Jun-2023
14:59
jiayi
lu



AFTER

MASS
54
AREA
6015
HEIGHT
4407
29-Jun-2023
15:48



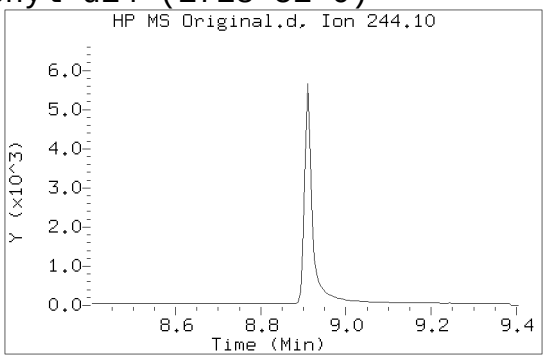
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

4-Terphenyl-d14 (1718-51-0)

Reason Code:

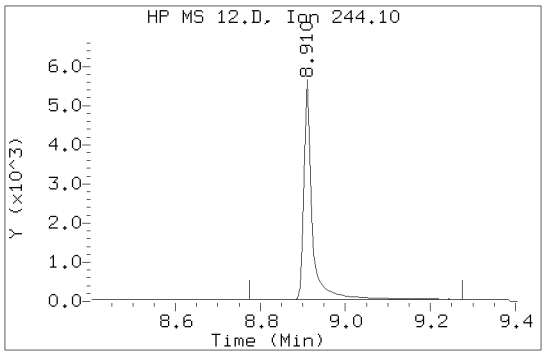
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



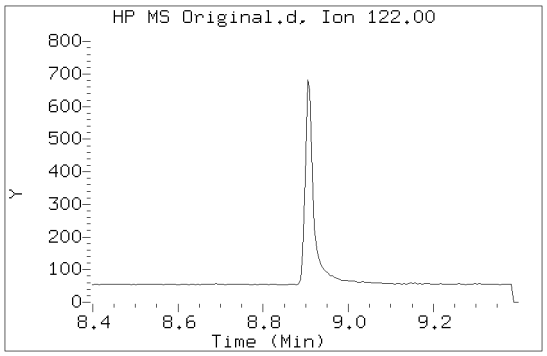
AFTER

MASS
244.1
AREA
7529
HEIGHT
5616
29-Jun-2023
15:48



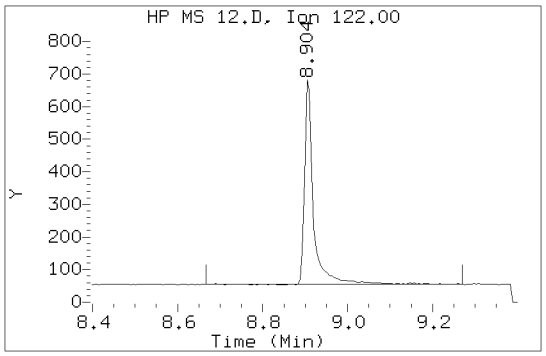
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



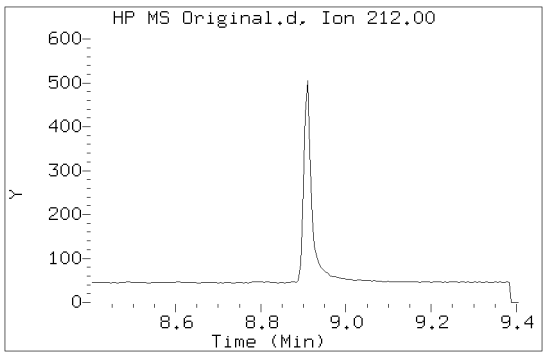
AFTER

MASS
122
AREA
918
HEIGHT
627
29-Jun-2023
15:48



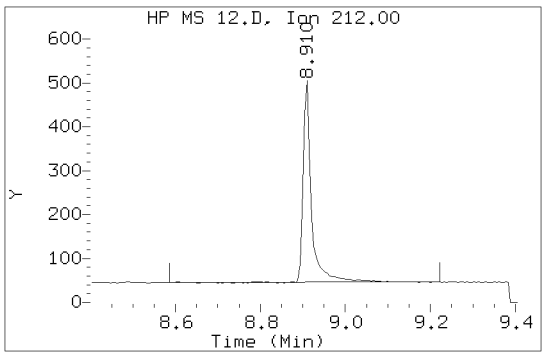
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



AFTER

MASS
212
AREA
625
HEIGHT
459
29-Jun-2023
15:48

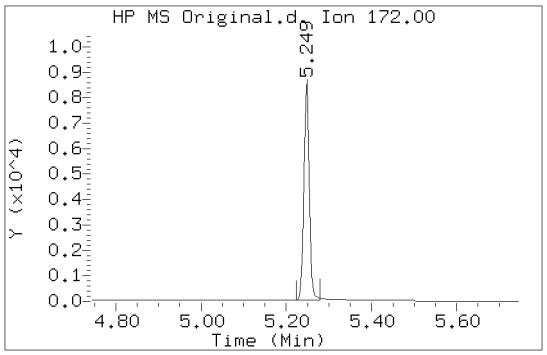


2-Fluorobiphenyl (321-60-8)

Reason Code:

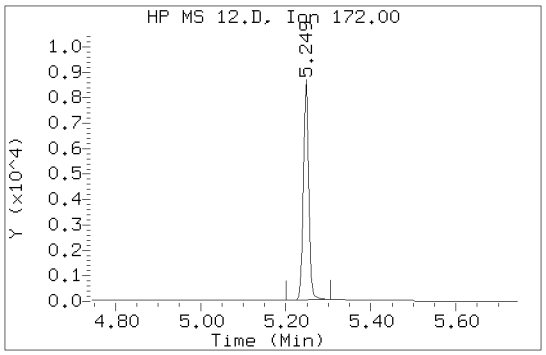
BEFORE

MASS
172
AREA
7733
HEIGHT
8663
16-Jun-2023
14:59
jiayi
lu



AFTER

MASS
172
AREA
7708
HEIGHT
8650
29-Jun-2023
15:48



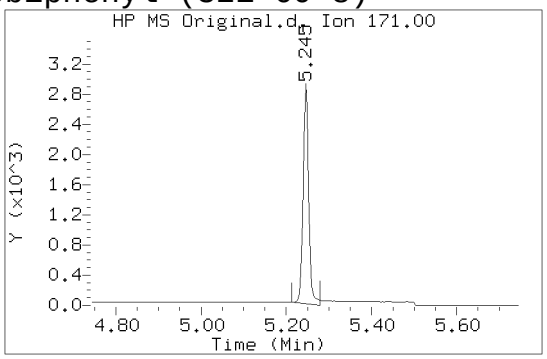
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

2-Fluorobiphenyl (321-60-8)

Reason Code:

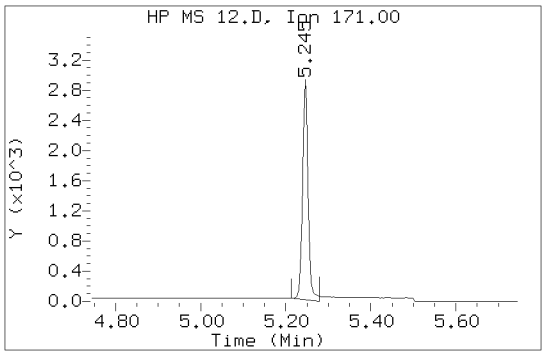
BEFORE

MASS
171
AREA
2685
HEIGHT
2917
16-Jun-2023
14:59
jiayi
lu



AFTER

MASS
171
AREA
2685
HEIGHT
2917
29-Jun-2023
15:48



Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D Page 1
Report Date: 29-Jun-2023 14:27

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Lab Smp Id: 14DXICAL-0.5 Client Smp ID: 14DXICAL-0.5
Inj Date : 16-JUN-2023 14:51
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.5
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 12:38 Cal File: 09.D
Als bottle: 14 Calibration Sample, Level: 8
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	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.122	3.122	(1.000)	4165	0.10000	(aM)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	13989	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.579	3.579	(0.848)	19311	0.50000	0.4566(AM)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	8414	0.10000	
$ 69 2-Fluorobiphenyl	172	5.245	5.245	(0.891)	39708	0.50000	0.4608(AM)
* 126 Phenanthrene-d10	188	7.322	7.322	(1.000)	16472	0.10000	(M)
* 182 Chrysene-d12	240	10.017	10.017	(1.000)	10483	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.904	8.904	(0.889)	39805	0.50000	0.5203(AM)
* 198 Perylene-d12	264	11.940	11.940	(1.000)	8460	0.10000	(M)
1 1,4-Dioxane	58	1.452	1.452	(0.465)	6496	0.50000	0.4630(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.

01202020

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D

Date : 16-JUN-2023 14:51

Client ID: 14DXICAL-0.5

Instrument: SV6.i

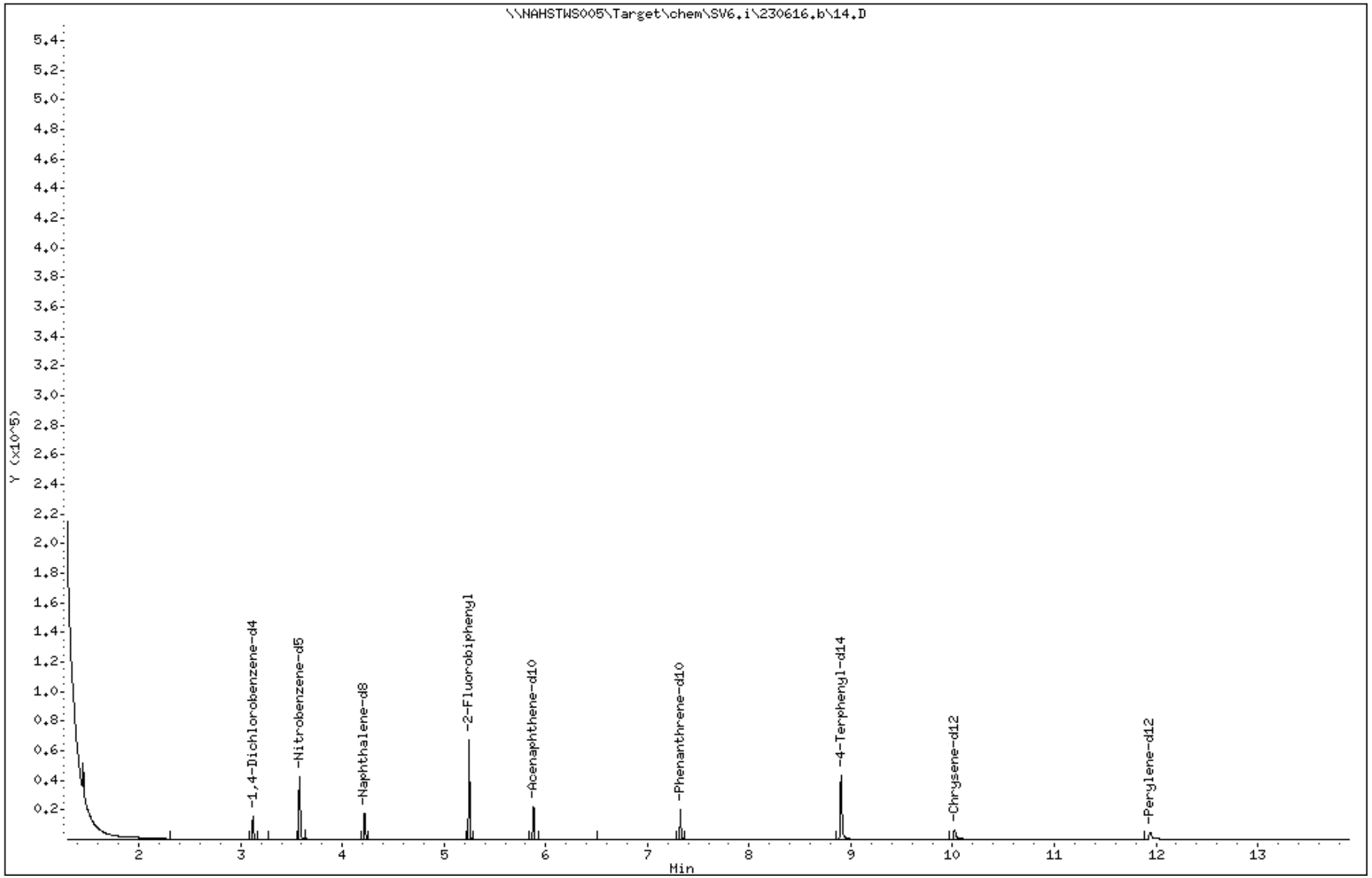
Sample Info: 14DXICAL-0.5

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



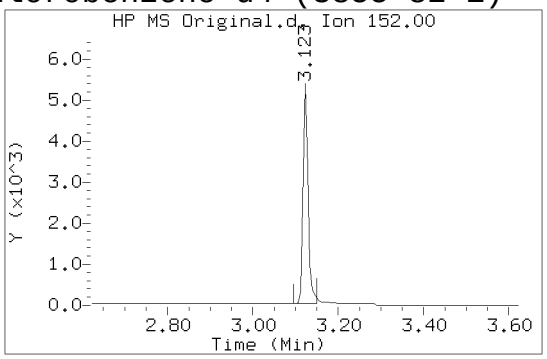
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

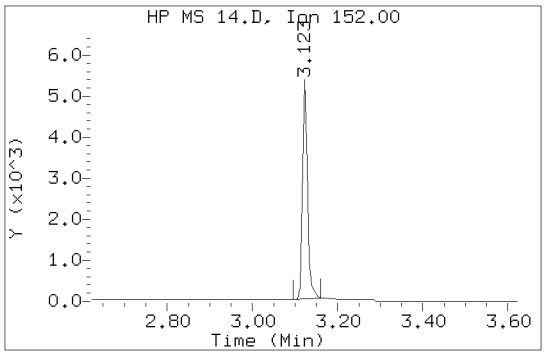
BEFORE

MASS
152
AREA
4211
HEIGHT
5358
16-Jun-2023
15:06
ALSHS
Server



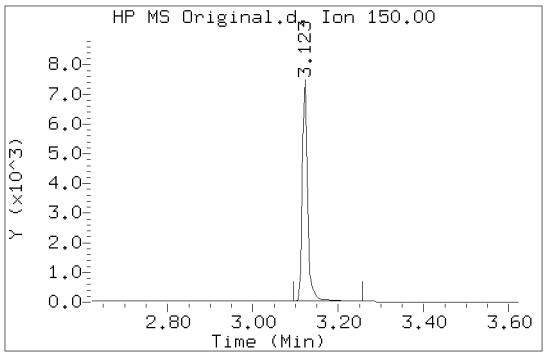
AFTER

MASS
152
AREA
4165
HEIGHT
5341
29-Jun-2023
14:27
ALSHS
Ser



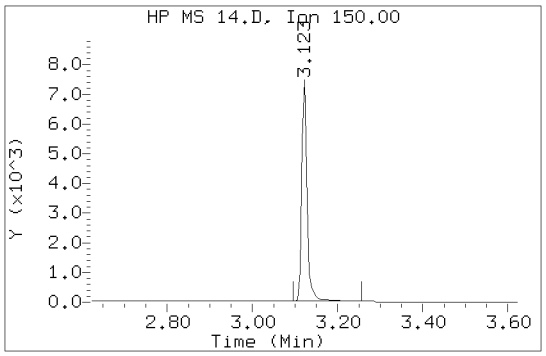
BEFORE

MASS
150
AREA
6228
HEIGHT
7441
16-Jun-2023
15:06
ALSHS
Server



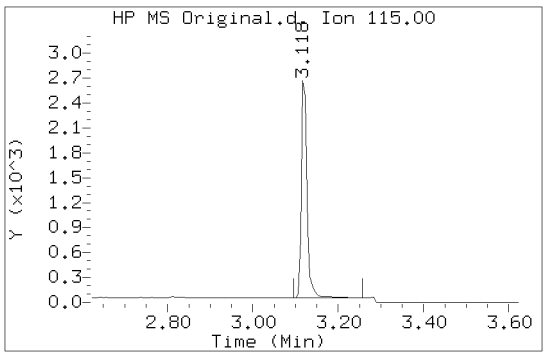
AFTER

MASS
150
AREA
6228
HEIGHT
7441
29-Jun-2023
14:27
ALSHS
Ser



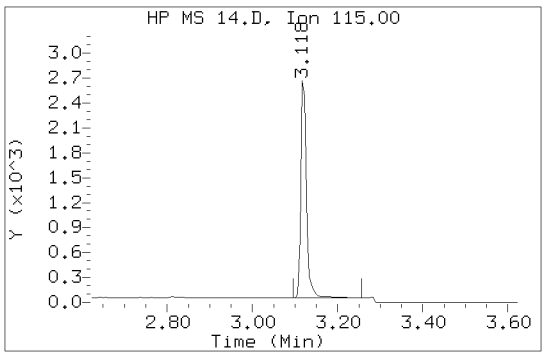
BEFORE

MASS
115
AREA
2367
HEIGHT
2615
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
115
AREA
2367
HEIGHT
2615
29-Jun-2023
14:27
ALSHS
Ser

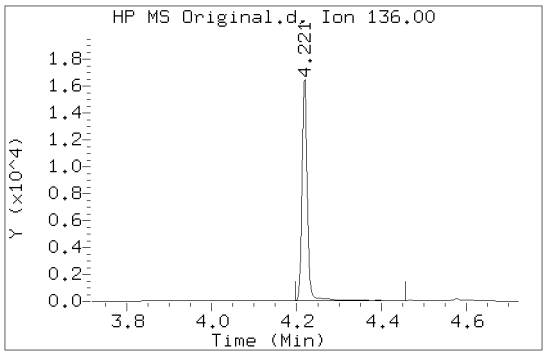


Naphthalene-d8 (1146-65-2)

Reason Code:

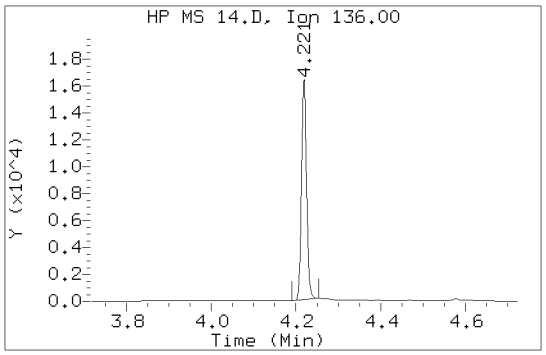
BEFORE

MASS
136
AREA
14856
HEIGHT
16448
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
136
AREA
13989
HEIGHT
16349
29-Jun-2023
14:27
ALSHS
Ser



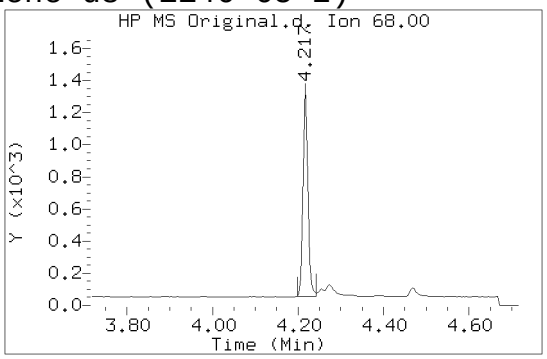
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

Naphthalene-d8 (1146-65-2)

Reason Code:

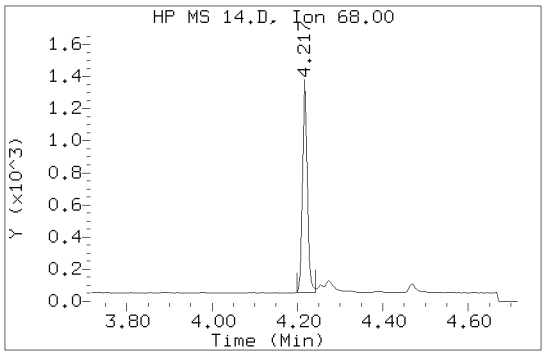
BEFORE

MASS
68
AREA
1074
HEIGHT
1326
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
68
AREA
1074
HEIGHT
1326
29-Jun-2023
14:27
ALSHS
Ser

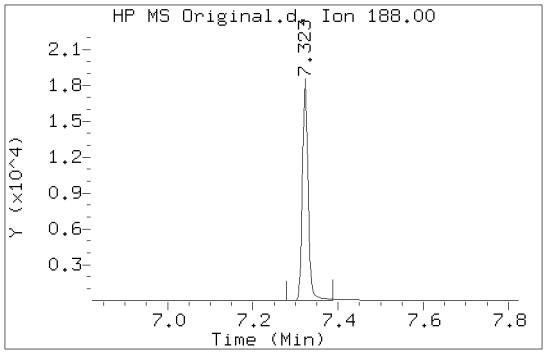


Phenanthrene-d10 (1517-22-2)

Reason Code:

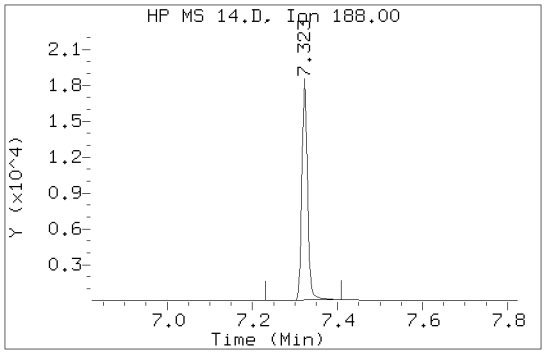
BEFORE

MASS
188
AREA
16664
HEIGHT
18523
16-Jun-2023
15:06
ALSHS
Server



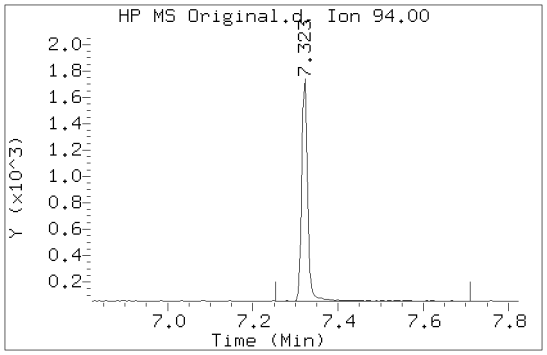
AFTER

MASS
188
AREA
16472
HEIGHT
18498
29-Jun-2023
14:27
ALSHS
Ser



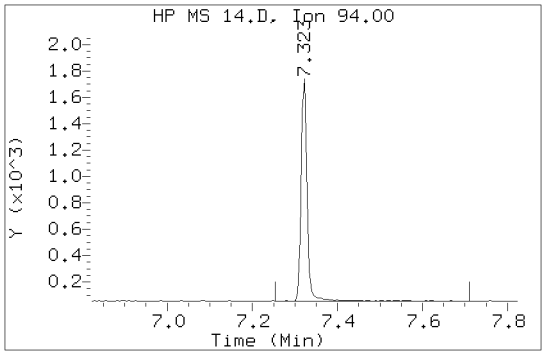
BEFORE

MASS
94
AREA
1634
HEIGHT
1685
16-Jun-2023
15:06
ALSHS
Server



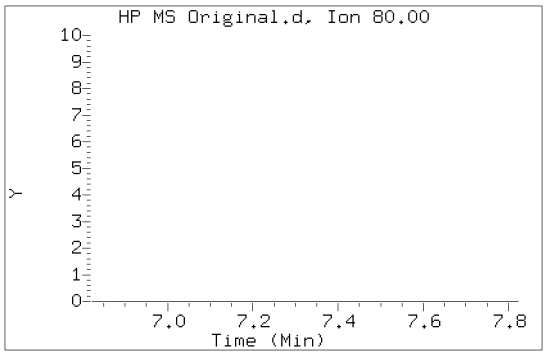
AFTER

MASS
94
AREA
1634
HEIGHT
1685
29-Jun-2023
14:27
ALSHS
Ser



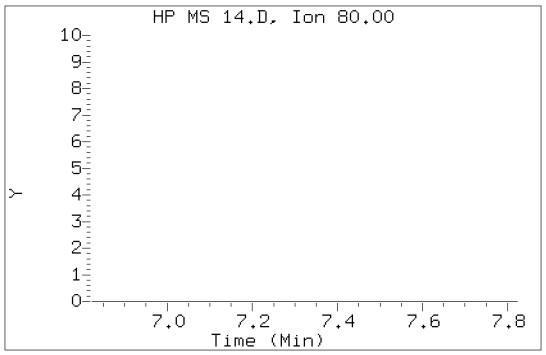
BEFORE

MASS
80
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser

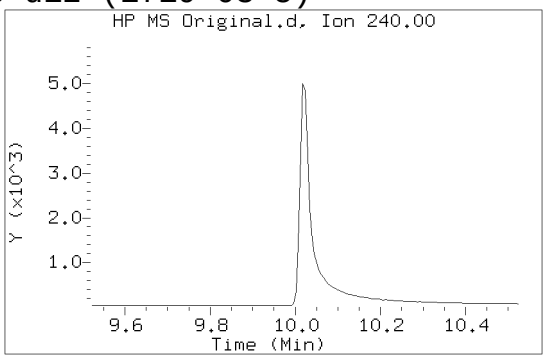


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

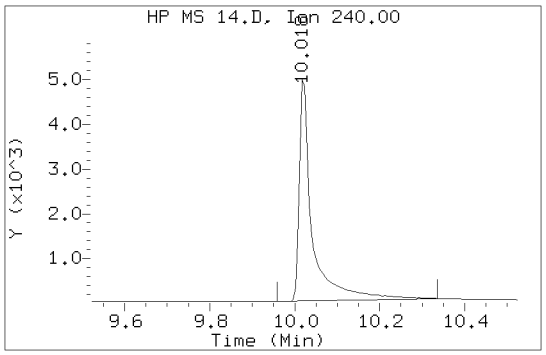
Chrysene-d12 (1719-03-5)

Reason Code:

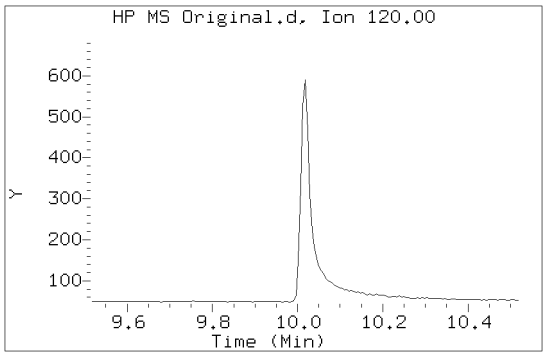
BEFORE
MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



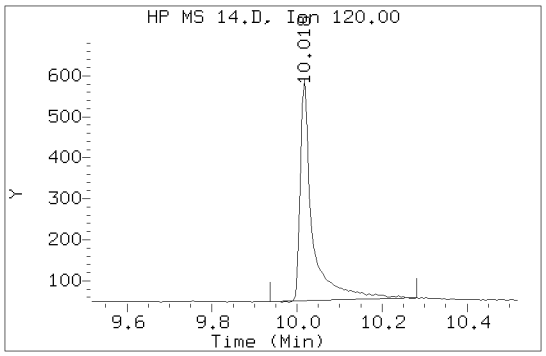
AFTER
MASS
240
AREA
10483
HEIGHT
4943
29-Jun-2023
14:27
ALSHS
Ser



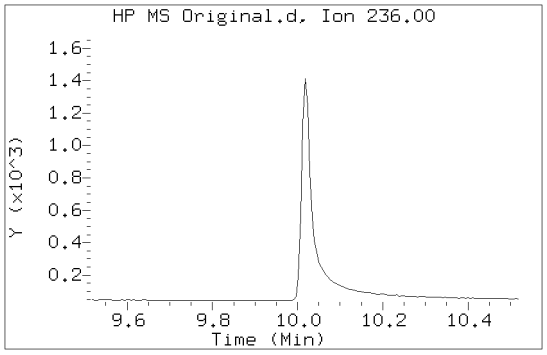
BEFORE
MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



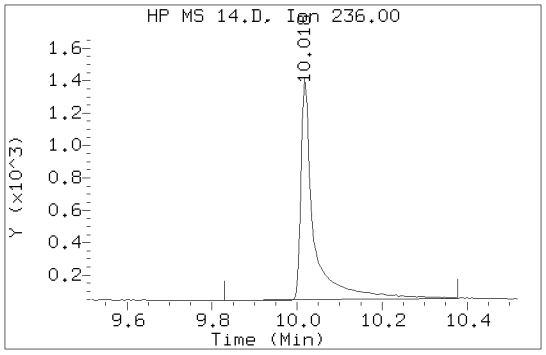
AFTER
MASS
120
AREA
1068
HEIGHT
538
29-Jun-2023
14:27
ALSHS
Ser



BEFORE
MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



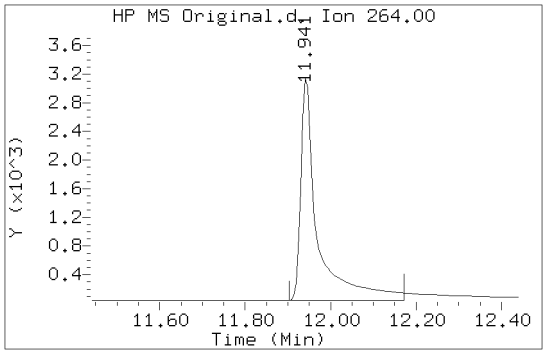
AFTER
MASS
236
AREA
2872
HEIGHT
1362
29-Jun-2023
14:27
ALSHS
Ser



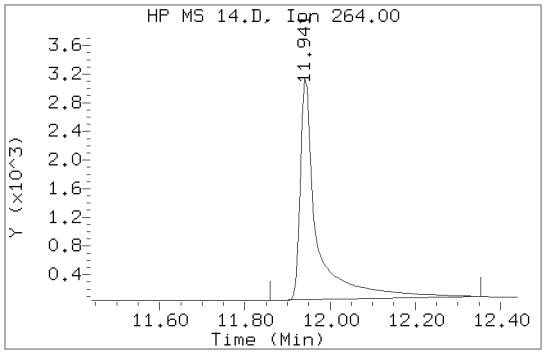
Perylene-d12 (1520-96-3)

Reason Code:

BEFORE
MASS
264
AREA
8406
HEIGHT
3088
16-Jun-2023
15:06
ALSHS
Server



AFTER
MASS
264
AREA
8460
HEIGHT
3081
29-Jun-2023
14:27
ALSHS
Ser



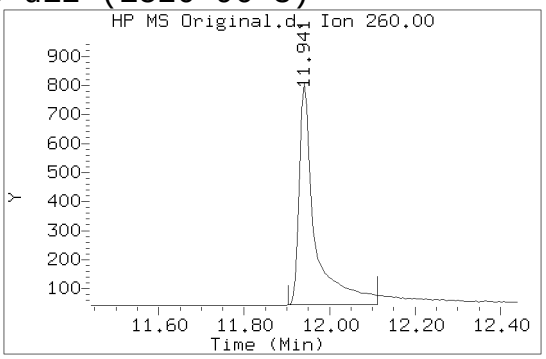
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

Perylene-d12 (1520-96-3)

Reason Code:

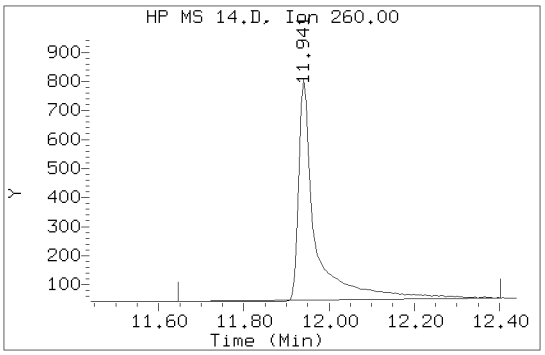
BEFORE

MASS
260
AREA
1950
HEIGHT
761
16-Jun-2023
15:06
ALSHS
Server



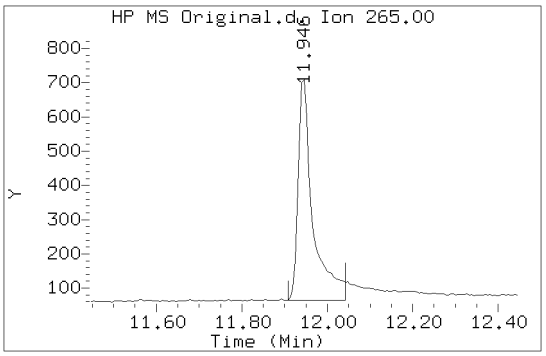
AFTER

MASS
260
AREA
2034
HEIGHT
757
29-Jun-2023
14:27
ALSHS
Ser



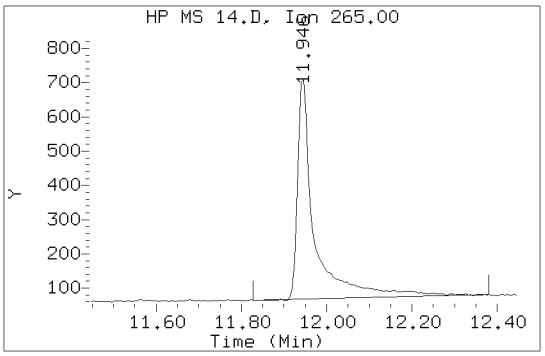
BEFORE

MASS
265
AREA
1539
HEIGHT
643
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
265
AREA
1765
HEIGHT
639
29-Jun-2023
14:27
ALSHS
Ser

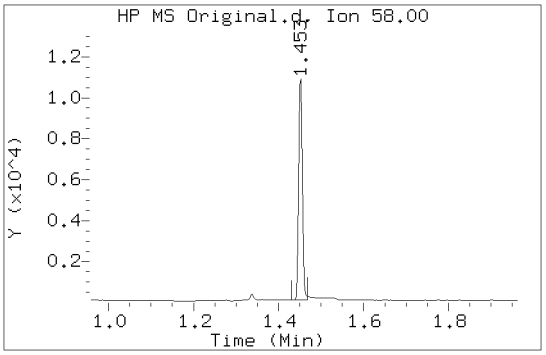


1,4-Dioxane ()

Reason Code:

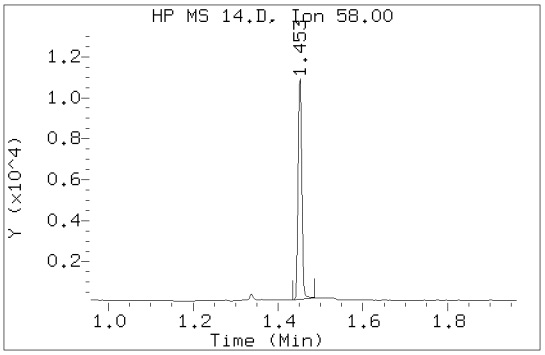
BEFORE

MASS
58
AREA
6535
HEIGHT
10789
16-Jun-2023
15:06
ALSHS
Server



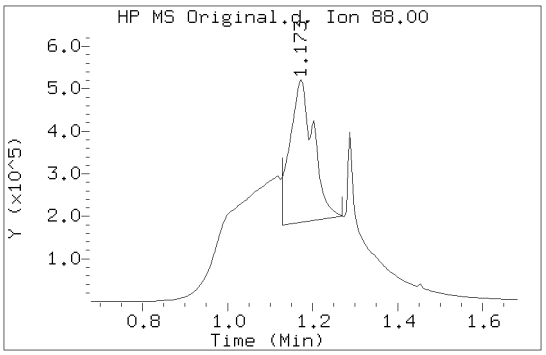
AFTER

MASS
58
AREA
6496
HEIGHT
10751
29-Jun-2023
14:27
ALSHS
Ser



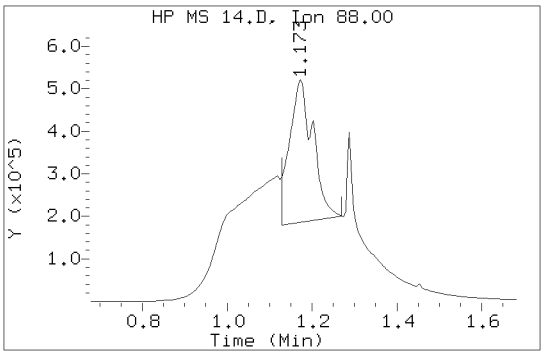
BEFORE

MASS
88
AREA
1285756
HEIGHT
334955
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
88
AREA
1285756
HEIGHT
334955
29-Jun-2023
14:27
ALSHS
Ser



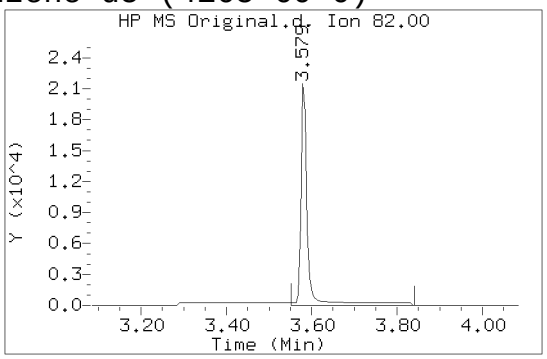
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

Nitrobenzene-d5 (4165-60-0)

Reason Code:

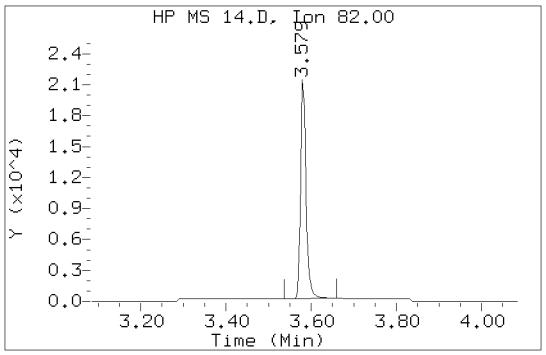
BEFORE

MASS
82
AREA
23560
HEIGHT
21488
16-Jun-2023
15:06
ALSHS
Server



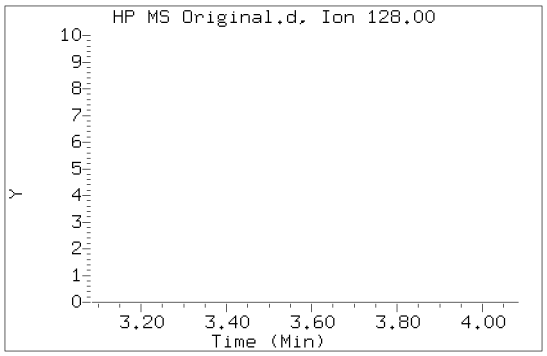
AFTER

MASS
82
AREA
19311
HEIGHT
21230
29-Jun-2023
14:27
ALSHS
Ser



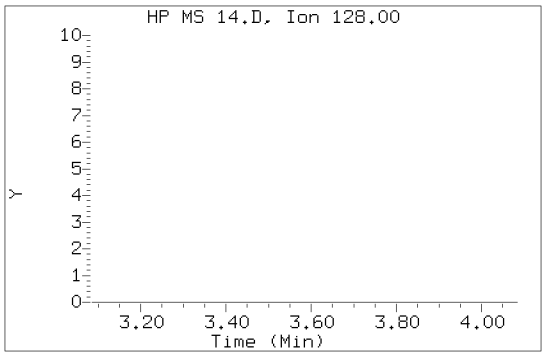
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



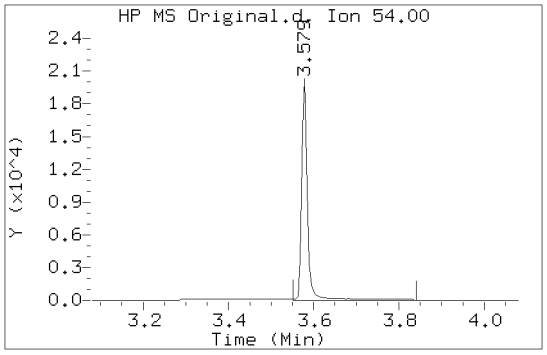
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser



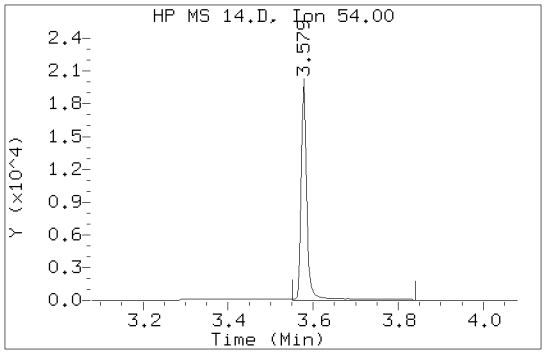
BEFORE

MASS
54
AREA
20065
HEIGHT
20304
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
54
AREA
20065
HEIGHT
20304
29-Jun-2023
14:27
ALSHS
Ser

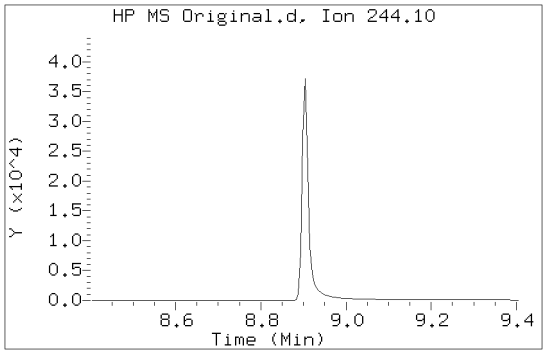


4-Terphenyl-d14 (1718-51-0)

Reason Code:

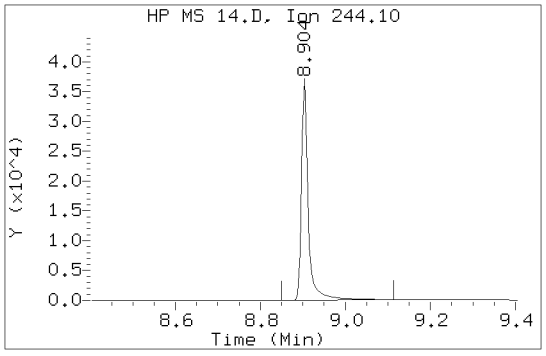
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
244.1
AREA
39805
HEIGHT
37107
29-Jun-2023
14:27
ALSHS
Ser



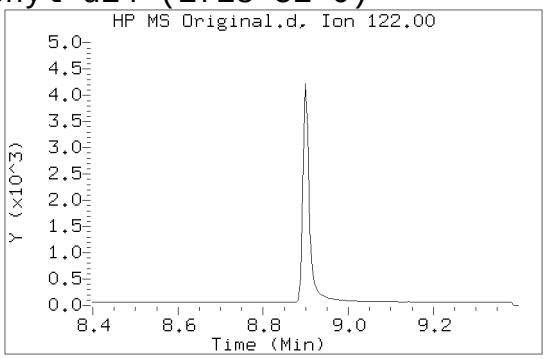
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

4-Terphenyl-d14 (1718-51-0)

Reason Code:

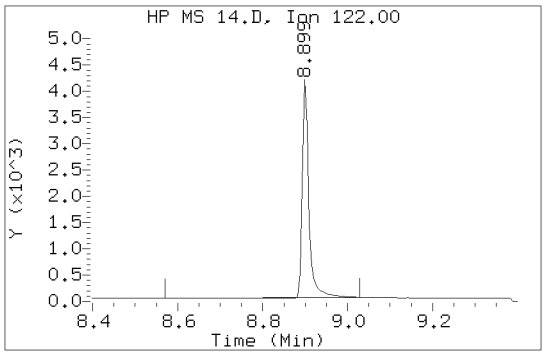
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



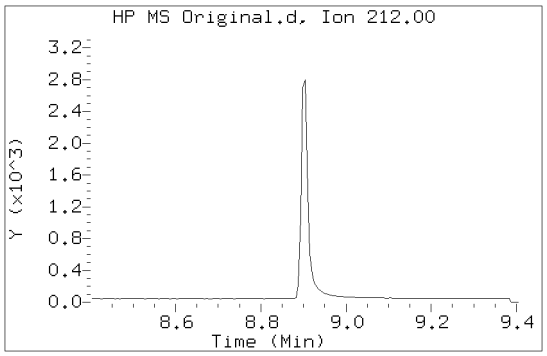
AFTER

MASS
122
AREA
4228
HEIGHT
4149
29-Jun-2023
14:27
ALSHS
Ser



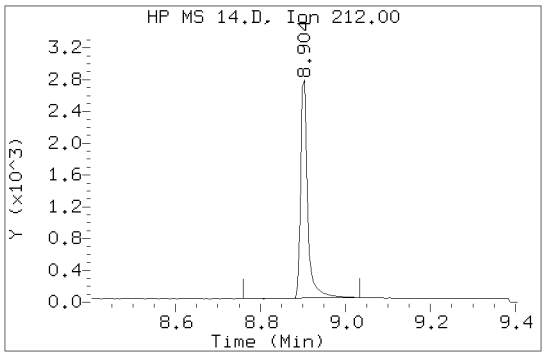
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
212
AREA
3105
HEIGHT
2745
29-Jun-2023
14:27
ALSHS
Ser

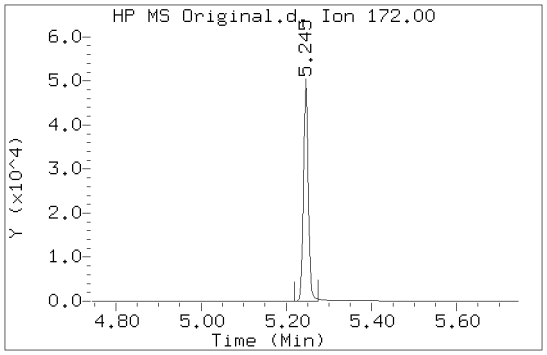


2-Fluorobiphenyl (321-60-8)

Reason Code:

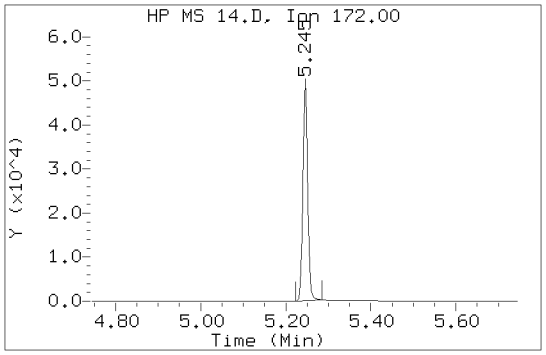
BEFORE

MASS
172
AREA
40002
HEIGHT
50410
16-Jun-2023
15:06
ALSHS
Server



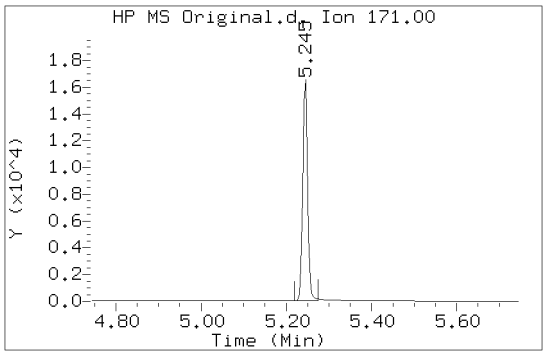
AFTER

MASS
172
AREA
39708
HEIGHT
50322
29-Jun-2023
14:27
ALSHS
Ser



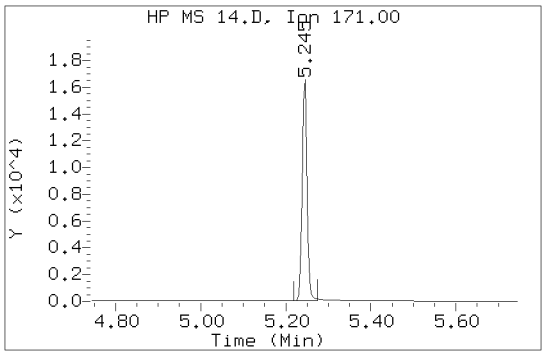
BEFORE

MASS
171
AREA
13389
HEIGHT
16514
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
171
AREA
13389
HEIGHT
16514
29-Jun-2023
14:27
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Lab Smp Id: 14DXICAL-0.2 Client Smp ID: 14DXICAL-0.2
Inj Date : 16-JUN-2023 15:56
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.2RR
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 14:51 Cal File: 14.D
Als bottle: 15 Calibration Sample, Level: 7
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	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.122	3.122	(1.000)	3731	0.10000	(aM)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	12688	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.849)	8839	0.20000	0.2304(AM)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	7256	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.245	5.245	(0.891)	18173	0.20000	0.2446(AM)
* 126 Phenanthrene-d10	188	7.322	7.322	(1.000)	14346	0.10000	
* 182 Chrysene-d12	240	10.023	10.023	(1.000)	8796	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.904	8.904	(0.888)	17639	0.20000	0.2748(AM)
* 198 Perylene-d12	264	11.940	11.940	(1.000)	6565	0.10000	(M)
1 1,4-Dioxane	58	1.460	1.460	(0.468)	2996	0.20000	0.2384(Q)

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.

01202029

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D

Date : 16-JUN-2023 15:56

Client ID: 14DXICAL-0.2

Instrument: SV6.i

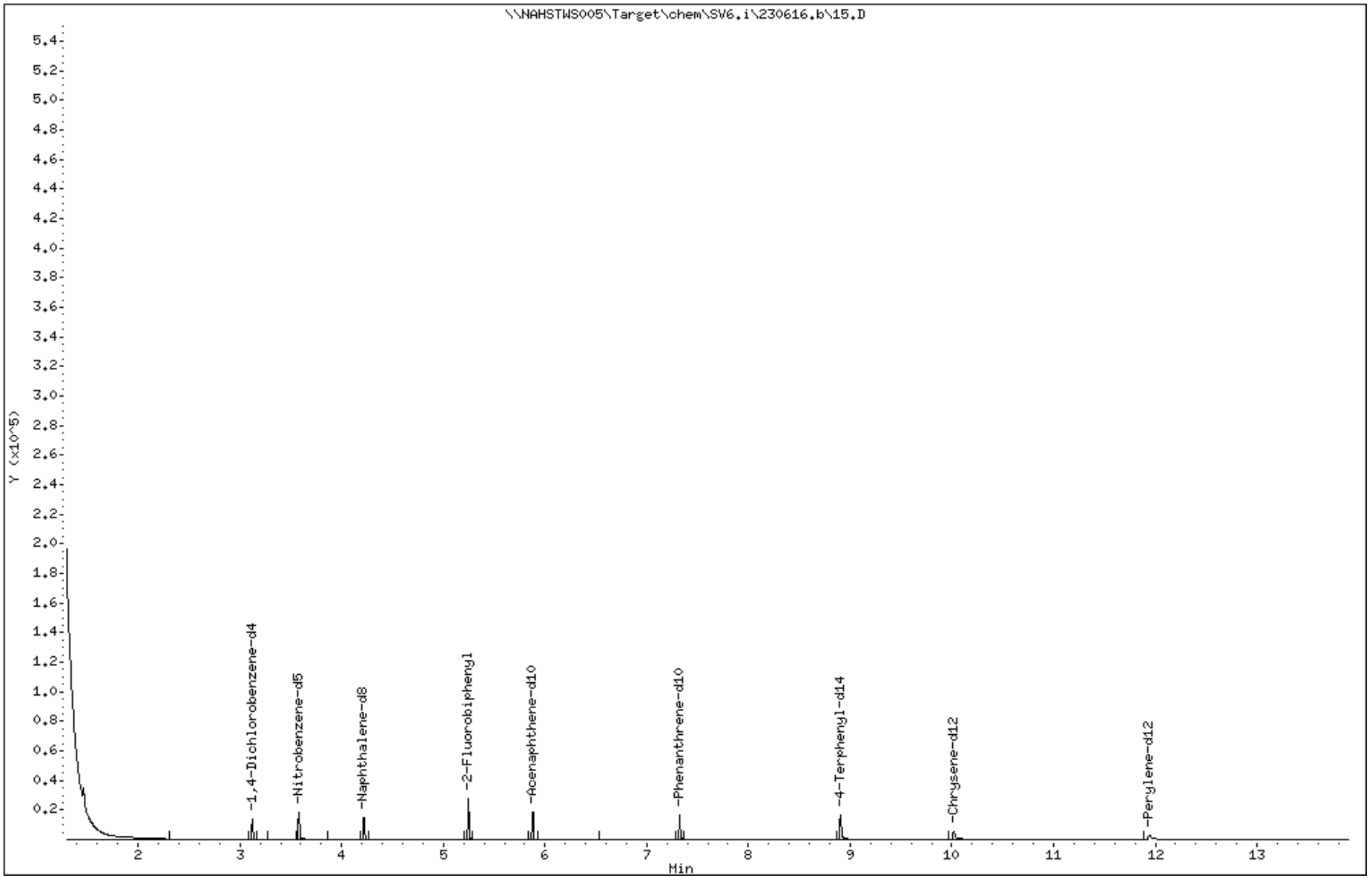
Sample Info: 14DXICAL-0.2RR

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



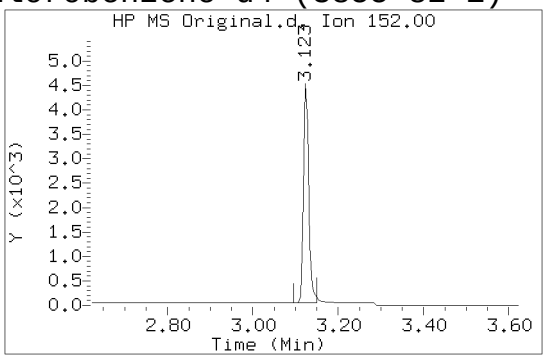
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

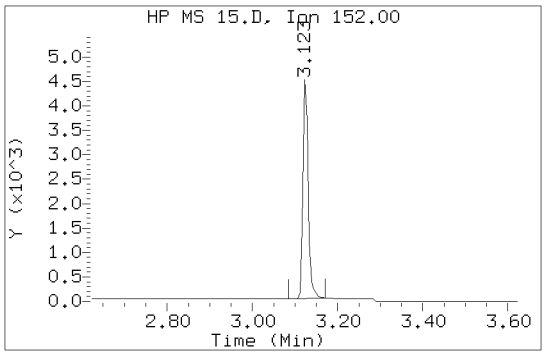
BEFORE

MASS
152
AREA
3749
HEIGHT
4489
16-Jun-2023
16:11
ALSHS
Server



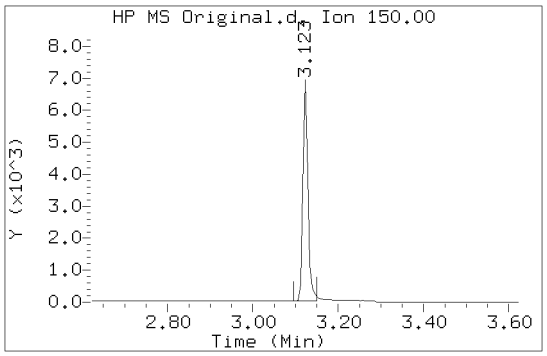
AFTER

MASS
152
AREA
3731
HEIGHT
4478
29-Jun-2023
14:27
ALSHS
Ser



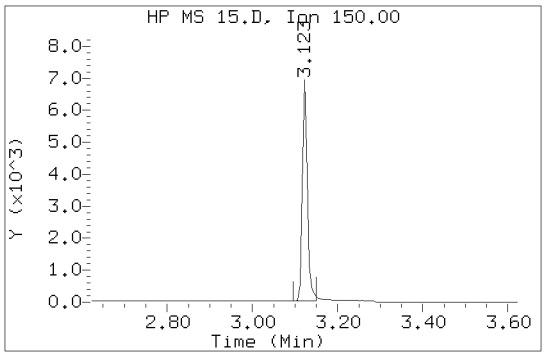
BEFORE

MASS
150
AREA
5426
HEIGHT
6903
16-Jun-2023
16:11
ALSHS
Server



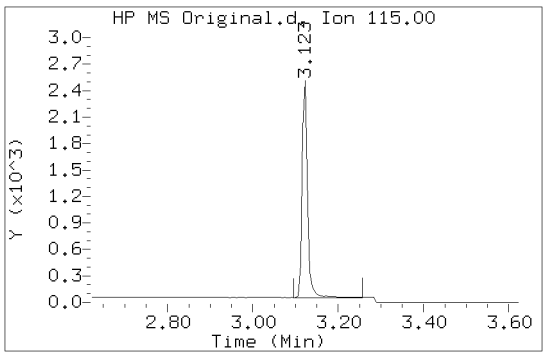
AFTER

MASS
150
AREA
5426
HEIGHT
6903
29-Jun-2023
14:27
ALSHS
Ser



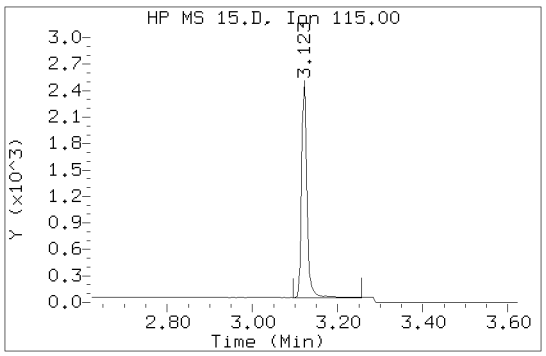
BEFORE

MASS
115
AREA
2094
HEIGHT
2459
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
115
AREA
2094
HEIGHT
2459
29-Jun-2023
14:27
ALSHS
Ser

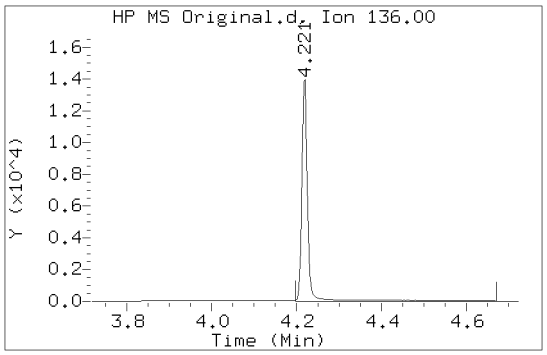


Naphthalene-d8 (1146-65-2)

Reason Code:

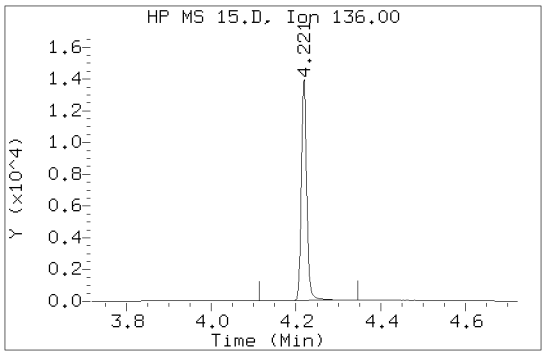
BEFORE

MASS
136
AREA
14465
HEIGHT
13959
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
136
AREA
12688
HEIGHT
13897
29-Jun-2023
14:27
ALSHS
Ser



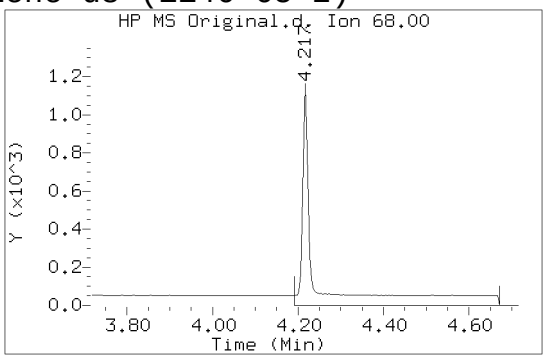
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

Naphthalene-d8 (1146-65-2)

Reason Code:

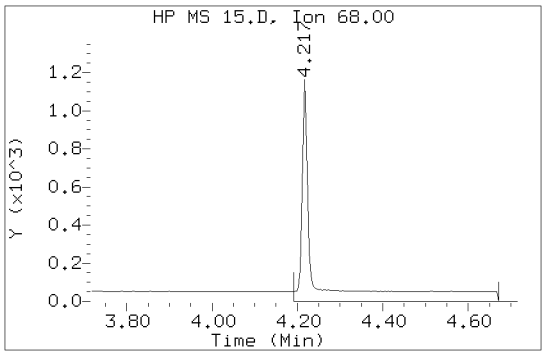
BEFORE

MASS
68
AREA
2461
HEIGHT
1163
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
68
AREA
2461
HEIGHT
1163
29-Jun-2023
14:27
ALSHS
Ser

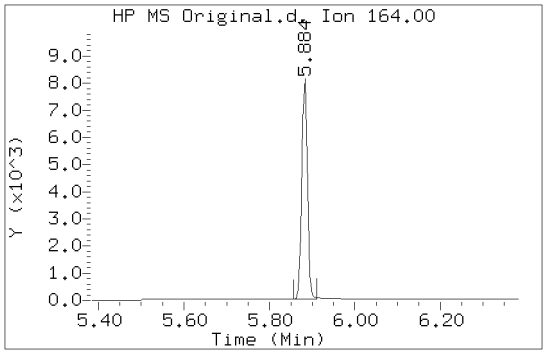


Acenaphthene-d10 (15067-26-2)

Reason Code:

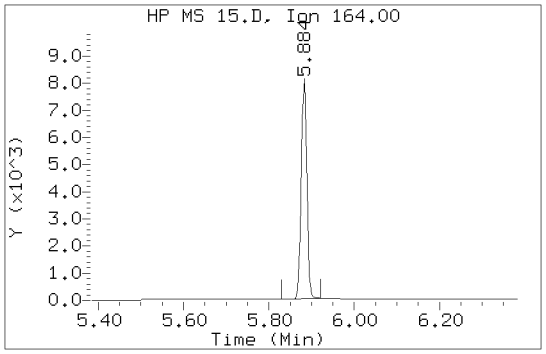
BEFORE

MASS
164
AREA
7305
HEIGHT
8114
16-Jun-2023
16:11
ALSHS
Server



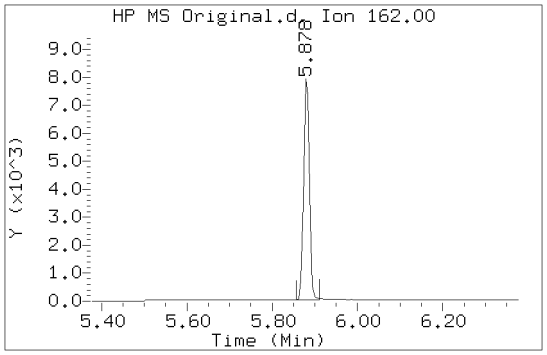
AFTER

MASS
164
AREA
7256
HEIGHT
8100
29-Jun-2023
14:27
ALSHS
Ser



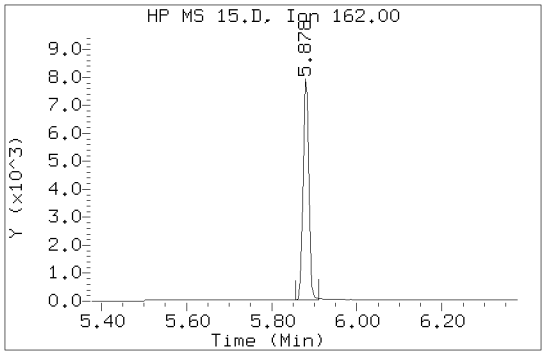
BEFORE

MASS
162
AREA
7389
HEIGHT
7893
16-Jun-2023
16:11
ALSHS
Server



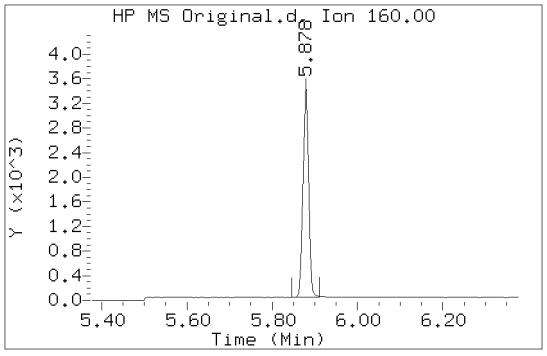
AFTER

MASS
162
AREA
7389
HEIGHT
7893
29-Jun-2023
14:27
ALSHS
Ser



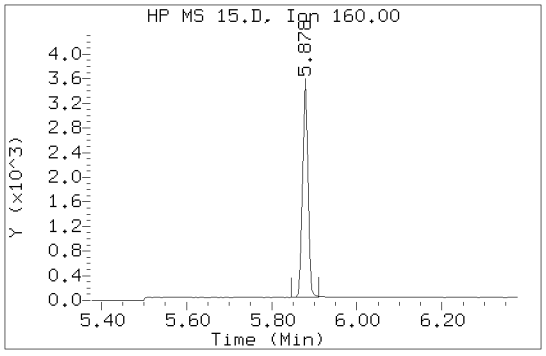
BEFORE

MASS
160
AREA
3110
HEIGHT
3554
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
160
AREA
3110
HEIGHT
3554
29-Jun-2023
14:27
ALSHS
Ser



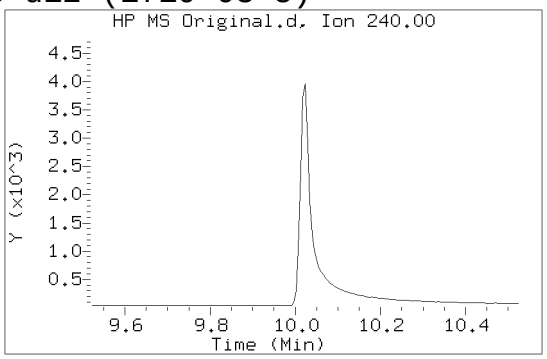
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

Chrysene-d12 (1719-03-5)

Reason Code:

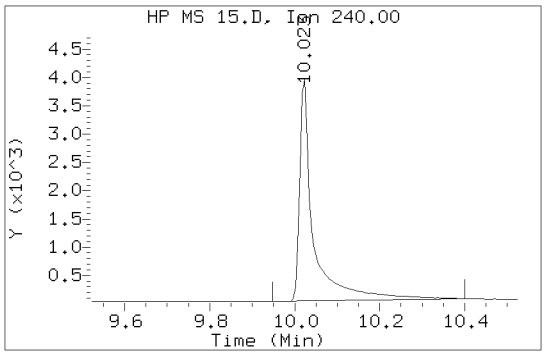
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



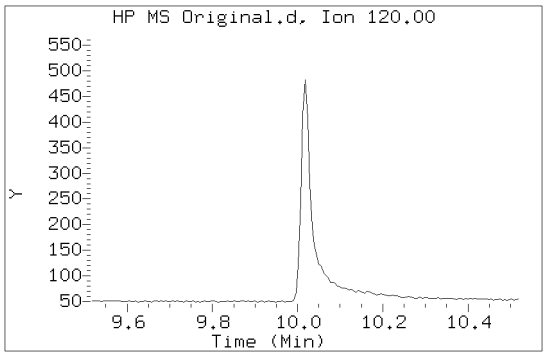
AFTER

MASS
240
AREA
8796
HEIGHT
3907
29-Jun-2023
14:27
ALSHS
Ser



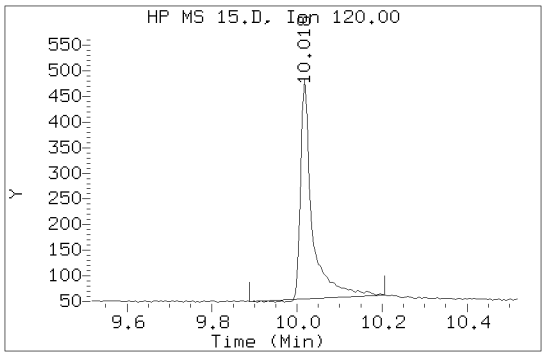
BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



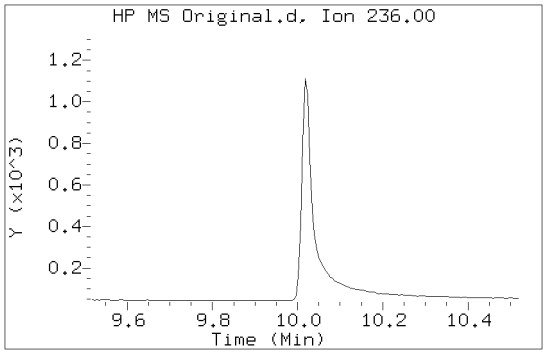
AFTER

MASS
120
AREA
798
HEIGHT
426
29-Jun-2023
14:27
ALSHS
Ser



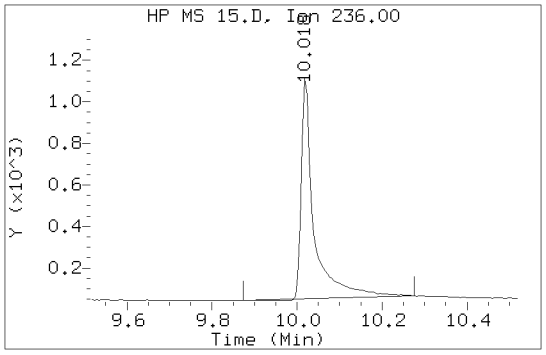
BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
236
AREA
2198
HEIGHT
1058
29-Jun-2023
14:27
ALSHS
Ser

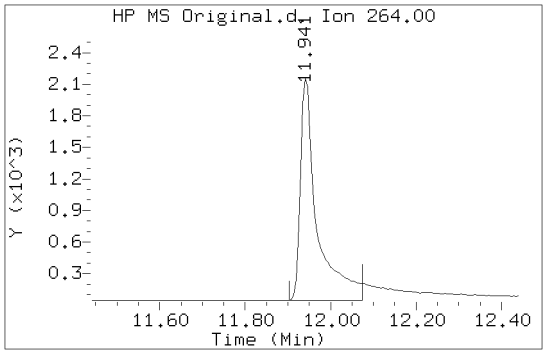


Perylene-d12 (1520-96-3)

Reason Code:

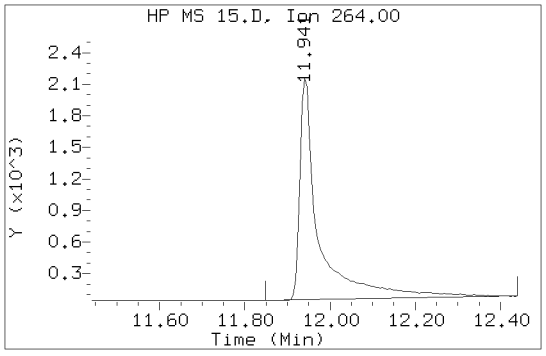
BEFORE

MASS
264
AREA
5713
HEIGHT
2106
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
264
AREA
6565
HEIGHT
2100
29-Jun-2023
14:27
ALSHS
Ser



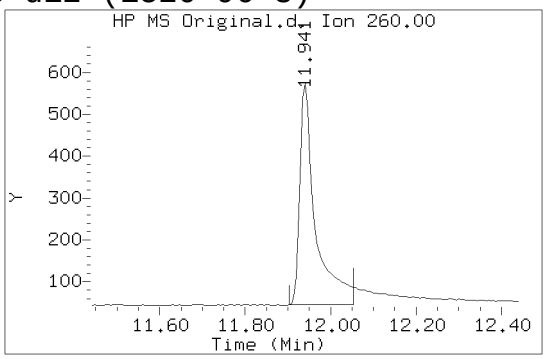
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

Perylene-d12 (1520-96-3)

Reason Code:

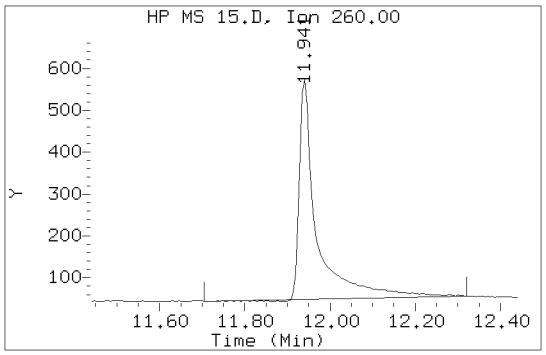
BEFORE

MASS
260
AREA
1348
HEIGHT
528
16-Jun-2023
16:11
ALSHS
Server



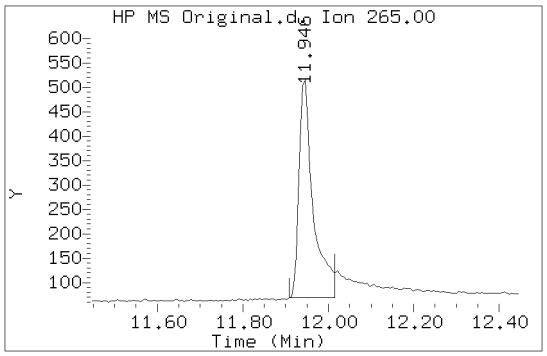
AFTER

MASS
260
AREA
1491
HEIGHT
524
29-Jun-2023
14:27
ALSHS
Ser



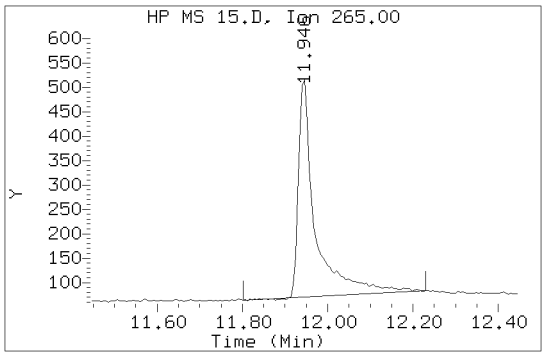
BEFORE

MASS
265
AREA
1037
HEIGHT
446
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
265
AREA
1210
HEIGHT
444
29-Jun-2023
14:27
ALSHS
Ser

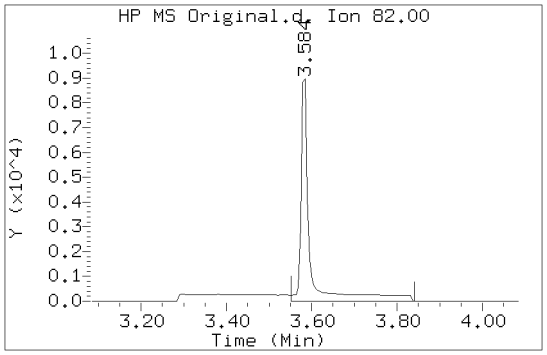


Nitrobenzene-d5 (4165-60-0)

Reason Code:

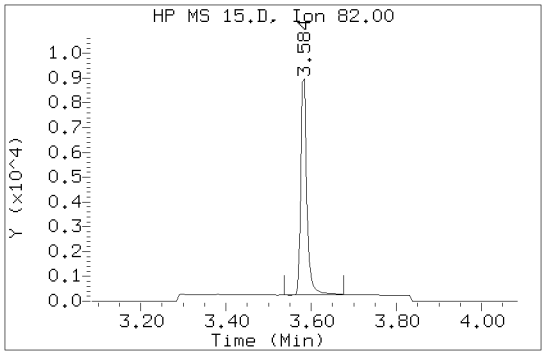
BEFORE

MASS
82
AREA
13113
HEIGHT
8968
16-Jun-2023
16:11
ALSHS
Server



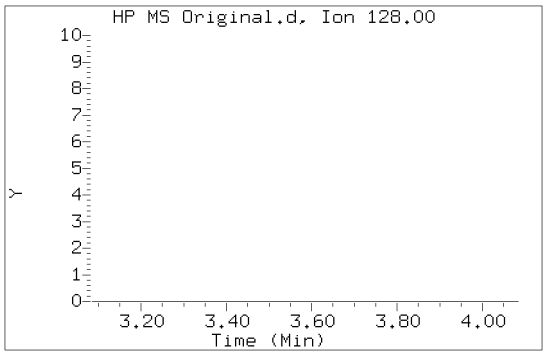
AFTER

MASS
82
AREA
8839
HEIGHT
8709
29-Jun-2023
14:27
ALSHS
Ser



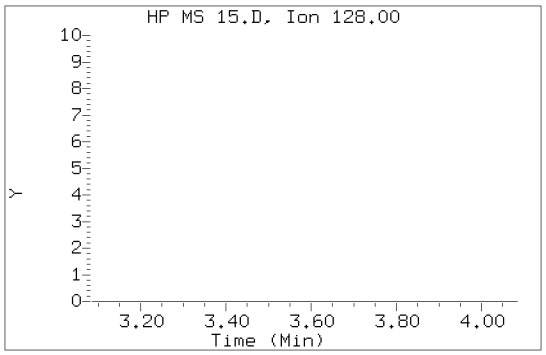
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser



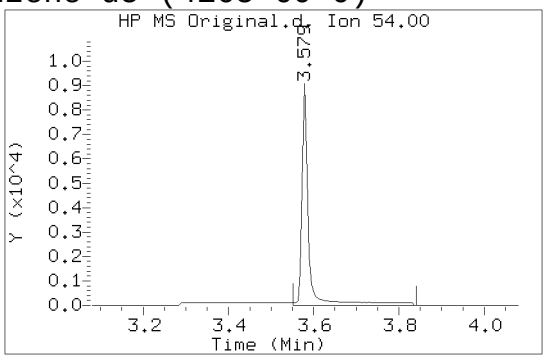
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

Nitrobenzene-d5 (4165-60-0)

Reason Code:

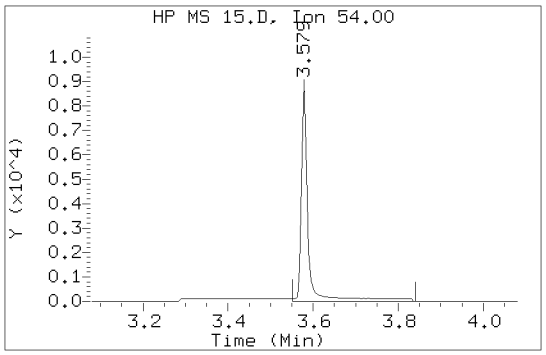
BEFORE

MASS
54
AREA
10106
HEIGHT
9078
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
54
AREA
10106
HEIGHT
9078
29-Jun-2023
14:27
ALSHS
Ser

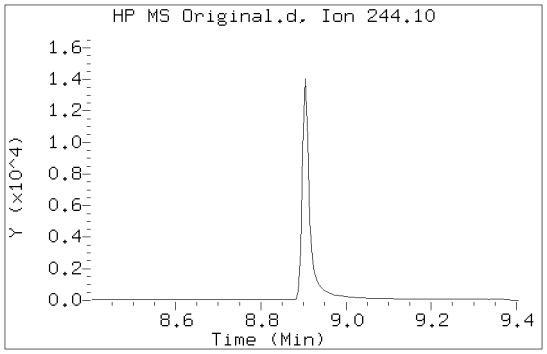


4-Terphenyl-d14 (1718-51-0)

Reason Code:

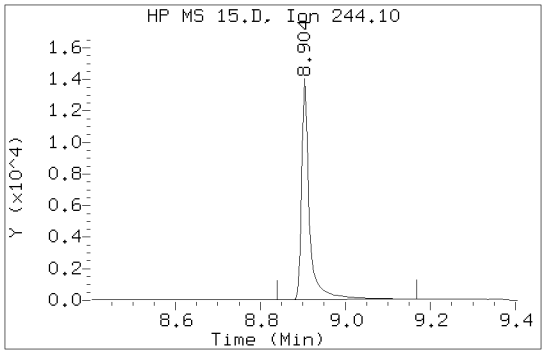
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



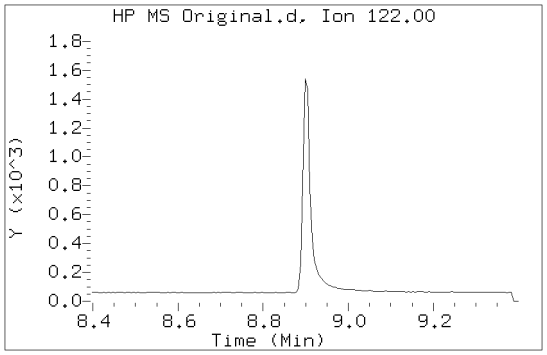
AFTER

MASS
244.1
AREA
17639
HEIGHT
13989
29-Jun-2023
14:27
ALSHS
Ser



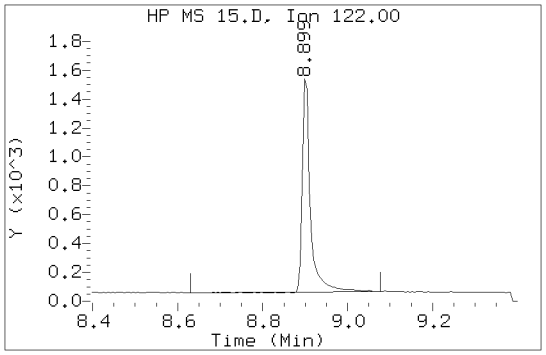
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



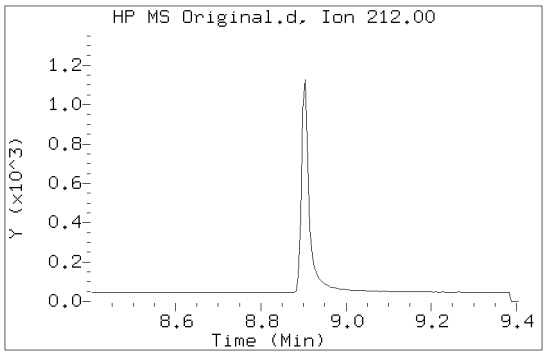
AFTER

MASS
122
AREA
1896
HEIGHT
1474
29-Jun-2023
14:27
ALSHS
Ser



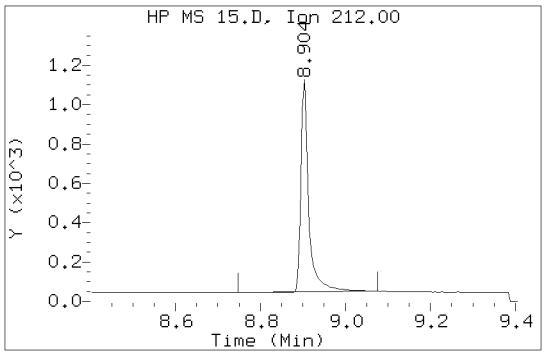
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
212
AREA
1371
HEIGHT
1079
29-Jun-2023
14:27
ALSHS
Ser



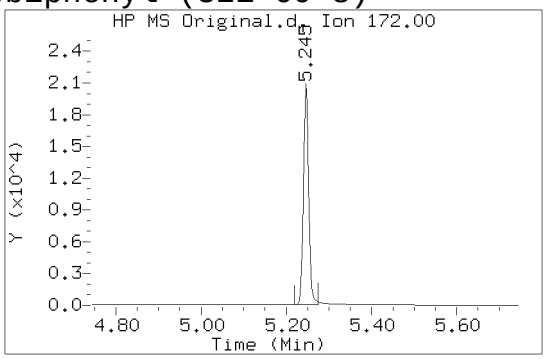
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

2-Fluorobiphenyl (321-60-8)

Reason Code:

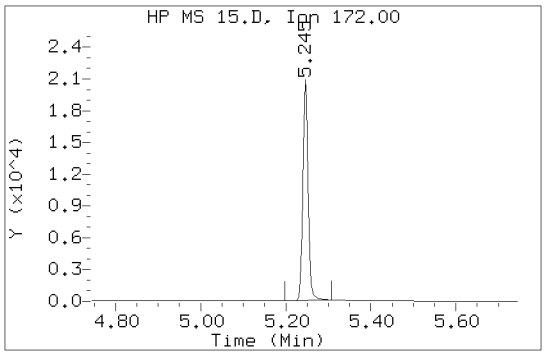
BEFORE

MASS
172
AREA
18197
HEIGHT
20880
16-Jun-2023
16:11
ALSHS
Server



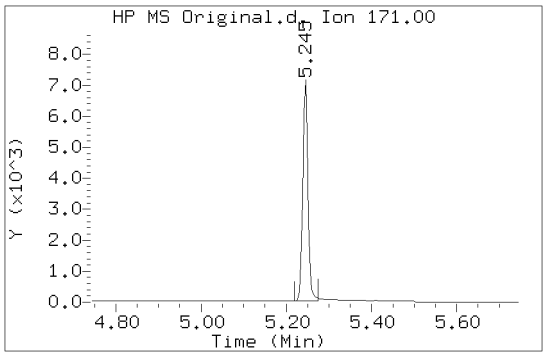
AFTER

MASS
172
AREA
18173
HEIGHT
20843
29-Jun-2023
14:27
ALSHS
Ser



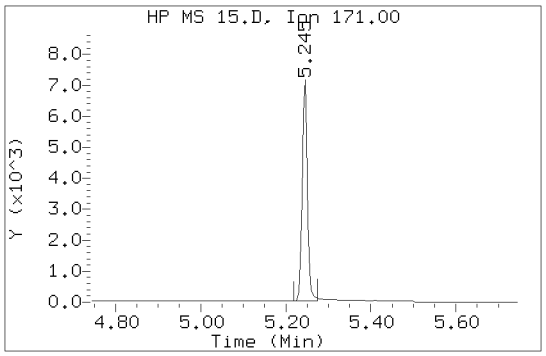
BEFORE

MASS
171
AREA
6120
HEIGHT
7129
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
171
AREA
6120
HEIGHT
7129
29-Jun-2023
14:27
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Lab Smp Id: 14DXICV-0.08 Client Smp ID: 14DXICV-0.08
Inj Date : 16-JUN-2023 16:22
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICV-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 16 QC Sample: METHSPIKE
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	3.128	3.122	(1.000)	5295	0.10000	(aM)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	17725	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.849)	3797	0.07086	0.07086(M)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	10379	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.248	5.245	(0.892)	8542	0.08036	0.08036(M)
* 126 Phenanthrene-d10	188	7.328	7.322	(1.000)	20505	0.10000	(M)
* 182 Chrysene-d12	240	10.023	10.023	(1.000)	12662	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.909	8.904	(0.889)	7743	0.08379	0.08379(M)
* 198 Perylene-d12	264	11.945	11.940	(1.000)	10635	0.10000	(M)
1 1,4-Dioxane	58	1.464	1.460	(0.468)	1261	0.07070	0.07070(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01202037

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D

Date : 16-JUN-2023 16:22

Client ID: 14DXICV-0.08

Instrument: SV6.i

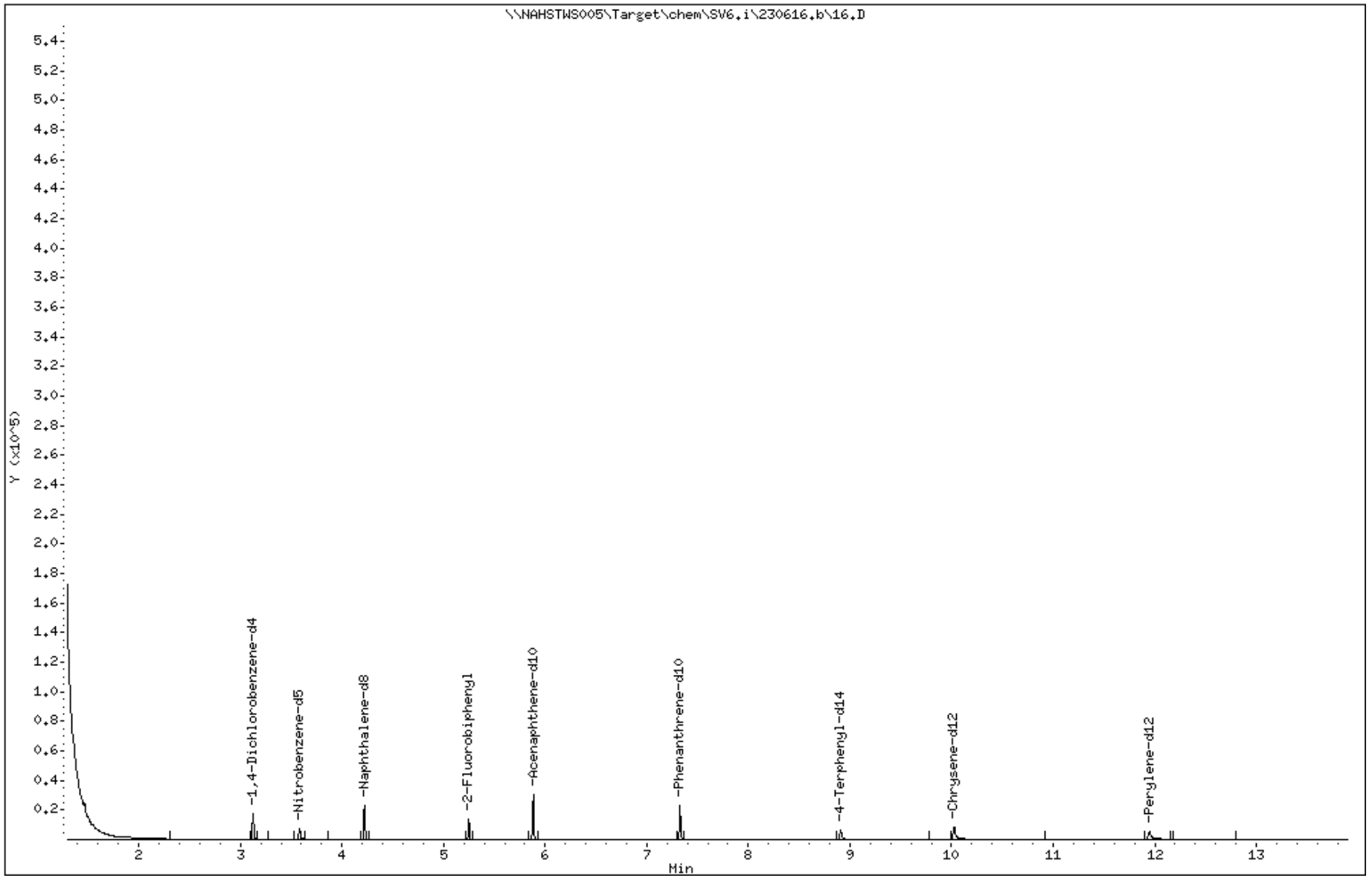
Sample Info: 14DXICV-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



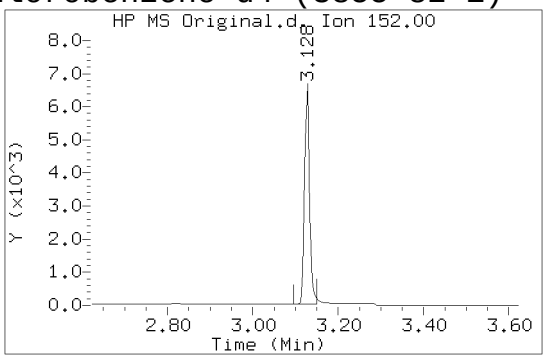
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

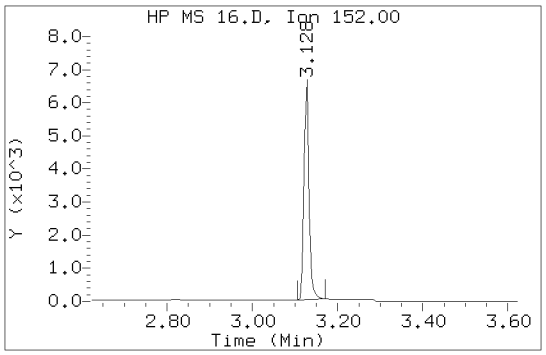
BEFORE

MASS
152
AREA
5292
HEIGHT
6650
16-Jun-2023
16:37
ALSHS
Server



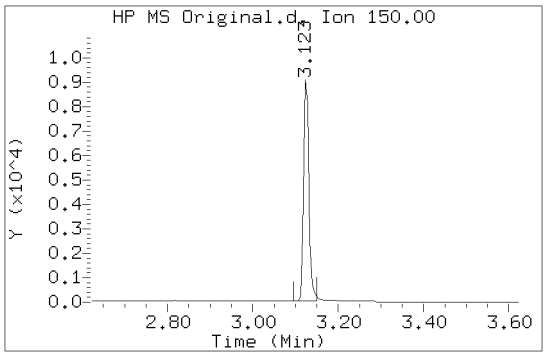
AFTER

MASS
152
AREA
5295
HEIGHT
6641
29-Jun-2023
14:27
ALSHS
Ser



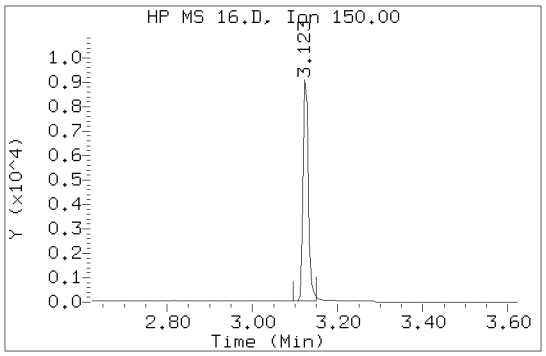
BEFORE

MASS
150
AREA
7668
HEIGHT
9050
16-Jun-2023
16:37
ALSHS
Server



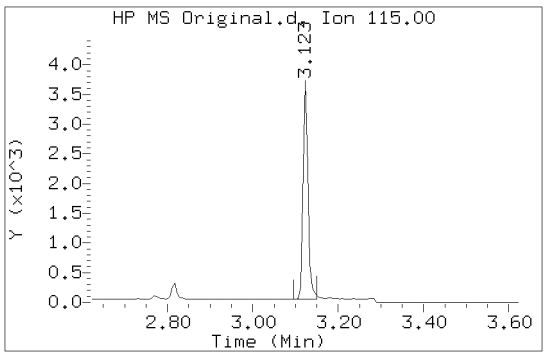
AFTER

MASS
150
AREA
7668
HEIGHT
9050
29-Jun-2023
14:27
ALSHS
Ser



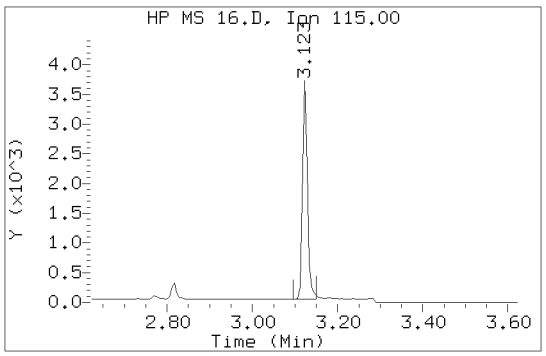
BEFORE

MASS
115
AREA
2824
HEIGHT
3676
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
115
AREA
2824
HEIGHT
3676
29-Jun-2023
14:27
ALSHS
Ser

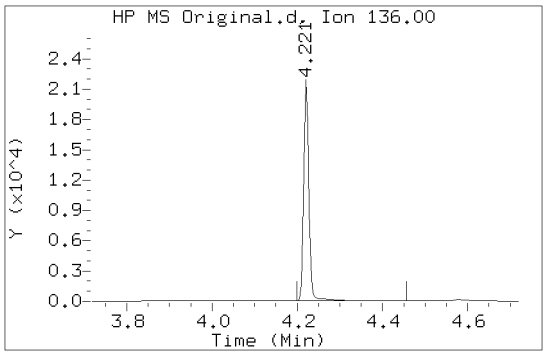


Naphthalene-d8 (1146-65-2)

Reason Code:

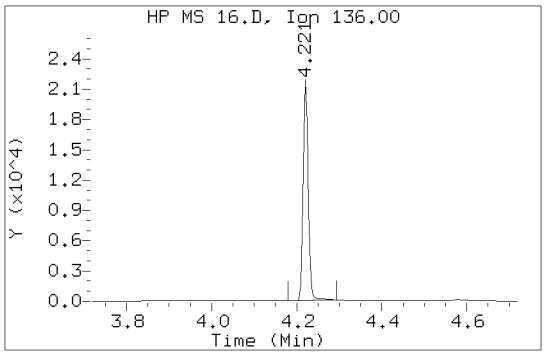
BEFORE

MASS
136
AREA
18147
HEIGHT
21880
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
136
AREA
17725
HEIGHT
21858
29-Jun-2023
14:27
ALSHS
Ser



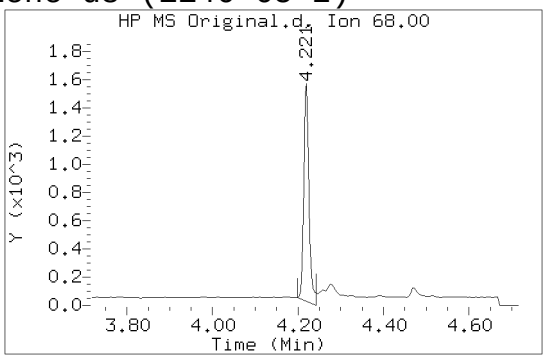
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

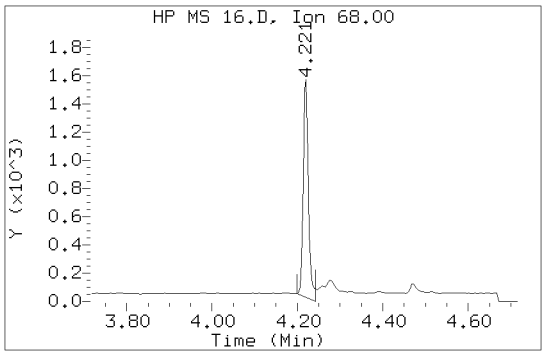
BEFORE

MASS
68
AREA
1351
HEIGHT
1544
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
68
AREA
1351
HEIGHT
1544
29-Jun-2023
14:27
ALSHS
Ser

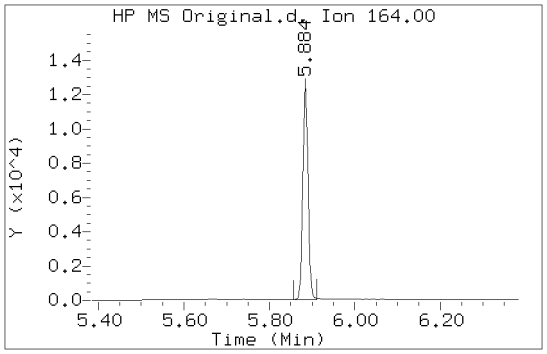


Acenaphthene-d10 (15067-26-2)

Reason Code:

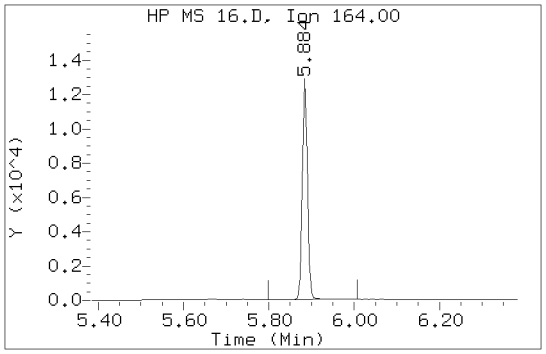
BEFORE

MASS
164
AREA
10322
HEIGHT
12879
16-Jun-2023
16:37
ALSHS
Server



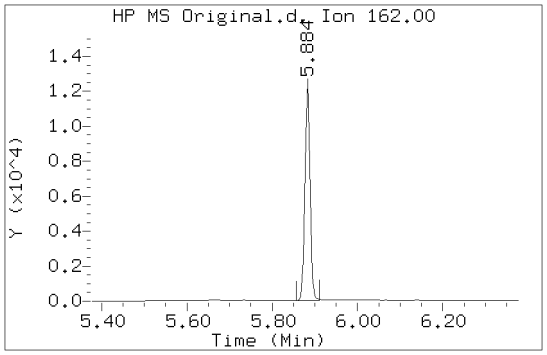
AFTER

MASS
164
AREA
10379
HEIGHT
12877
29-Jun-2023
14:27
ALSHS
Ser



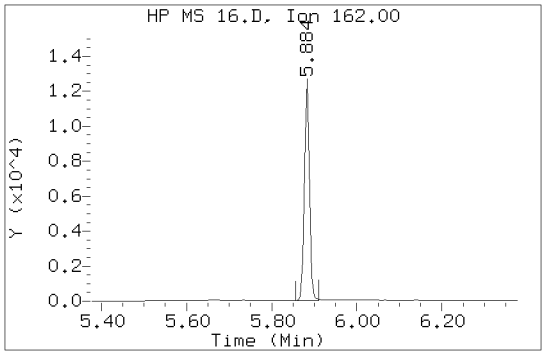
BEFORE

MASS
162
AREA
10387
HEIGHT
12657
16-Jun-2023
16:37
ALSHS
Server



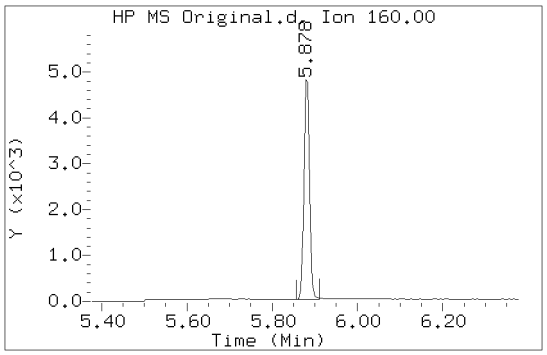
AFTER

MASS
162
AREA
10387
HEIGHT
12657
29-Jun-2023
14:27
ALSHS
Ser



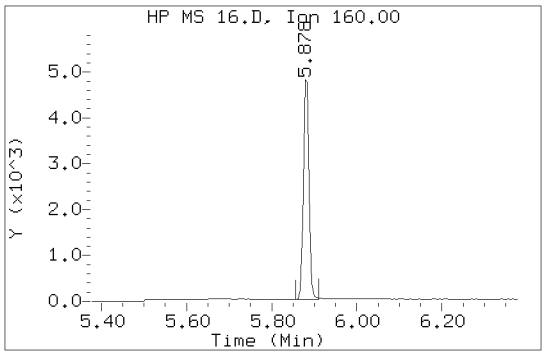
BEFORE

MASS
160
AREA
4356
HEIGHT
4785
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
160
AREA
4356
HEIGHT
4785
29-Jun-2023
14:27
ALSHS
Ser

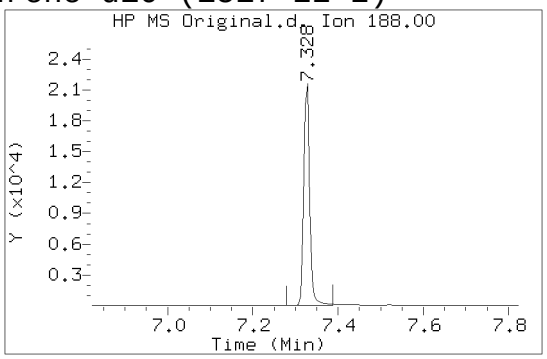


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

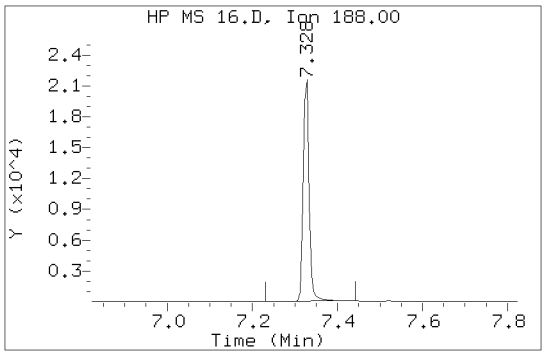
Phenanthrene-d10 (1517-22-2)

Reason Code:

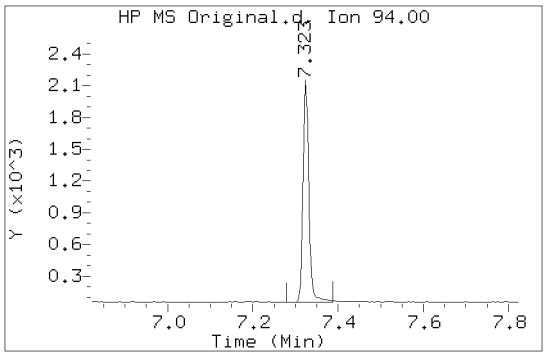
BEFORE
MASS
188
AREA
20554
HEIGHT
21579
16-Jun-2023
16:37
ALSHS
Server



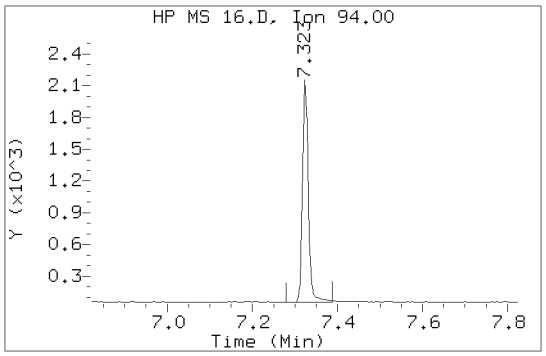
AFTER
MASS
188
AREA
20505
HEIGHT
21562
29-Jun-2023
14:27
ALSHS
Ser



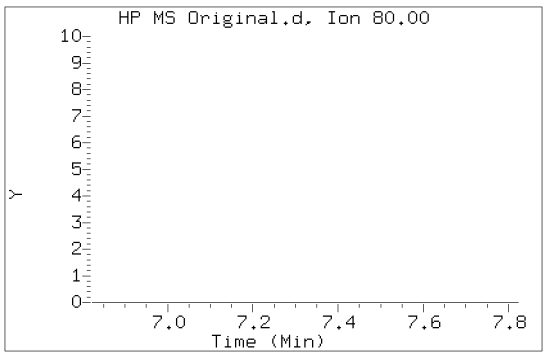
BEFORE
MASS
94
AREA
1950
HEIGHT
2099
16-Jun-2023
16:37
ALSHS
Server



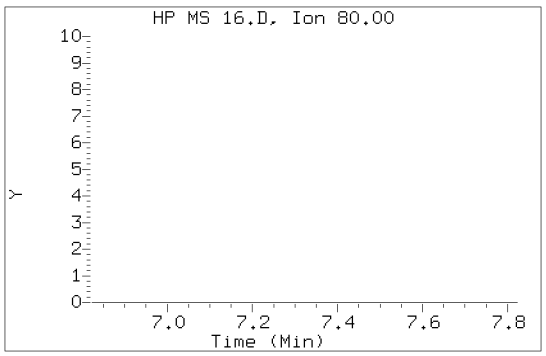
AFTER
MASS
94
AREA
1950
HEIGHT
2099
29-Jun-2023
14:27
ALSHS
Ser



BEFORE
MASS
80
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



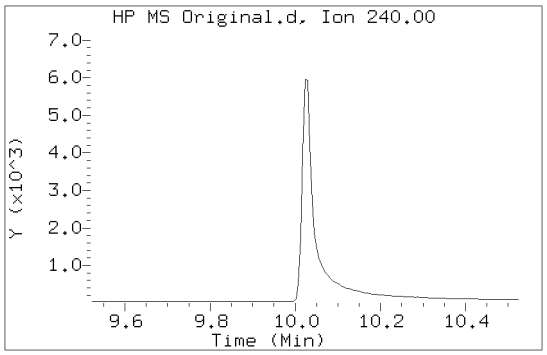
AFTER
MASS
80
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser



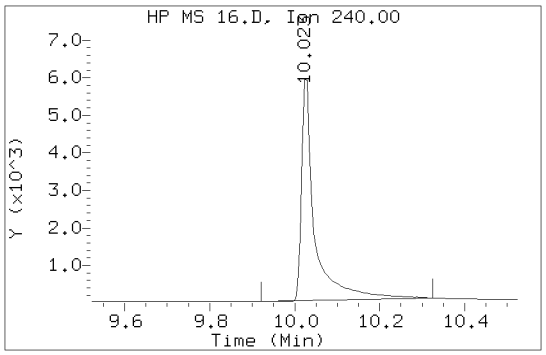
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



AFTER
MASS
240
AREA
12662
HEIGHT
5881
29-Jun-2023
14:27
ALSHS
Ser



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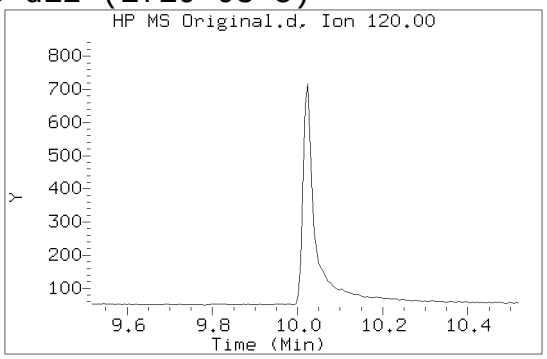
Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

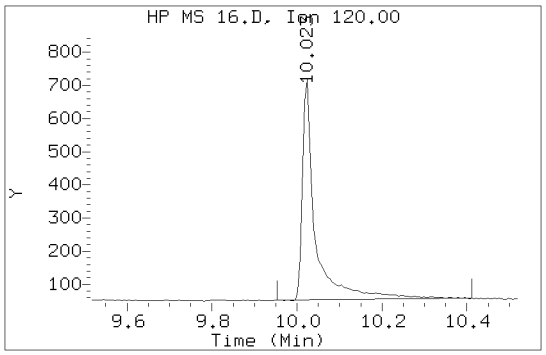
BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



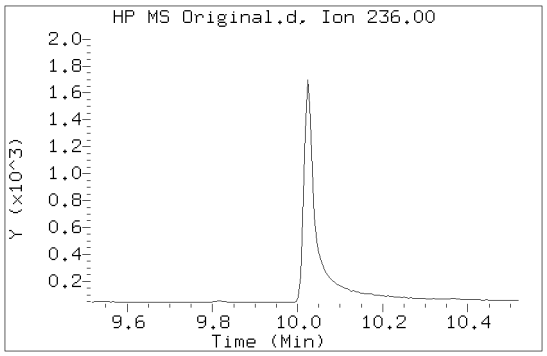
AFTER

MASS
120
AREA
1417
HEIGHT
664
29-Jun-2023
14:27
ALSHS
Ser



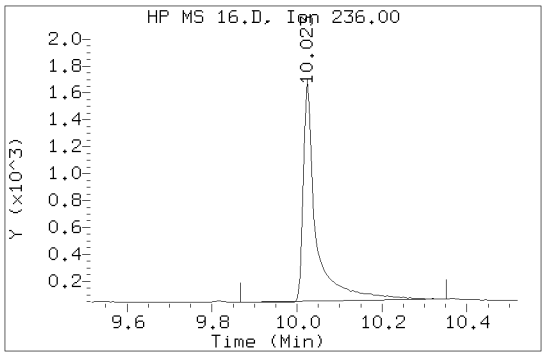
BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
236
AREA
3367
HEIGHT
1641
29-Jun-2023
14:27
ALSHS
Ser

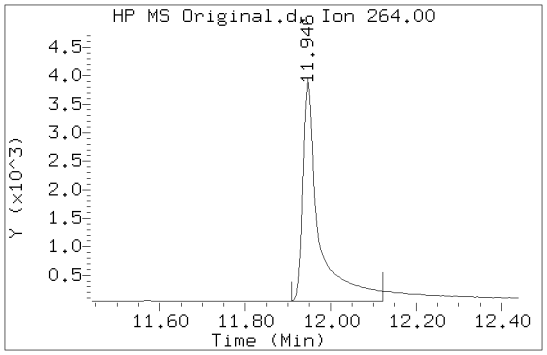


Perylene-d12 (1520-96-3)

Reason Code:

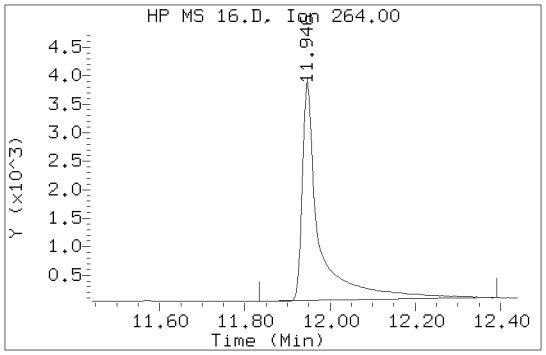
BEFORE

MASS
264
AREA
10066
HEIGHT
3896
16-Jun-2023
16:37
ALSHS
Server



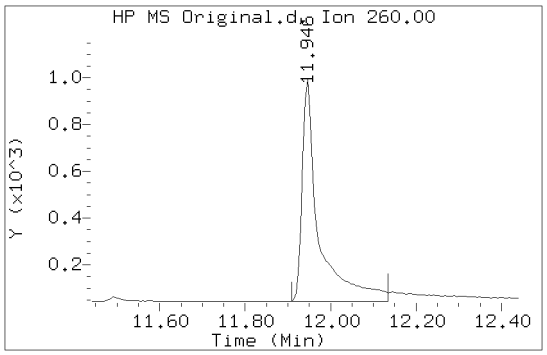
AFTER

MASS
264
AREA
10635
HEIGHT
3885
29-Jun-2023
14:27
ALSHS
Ser



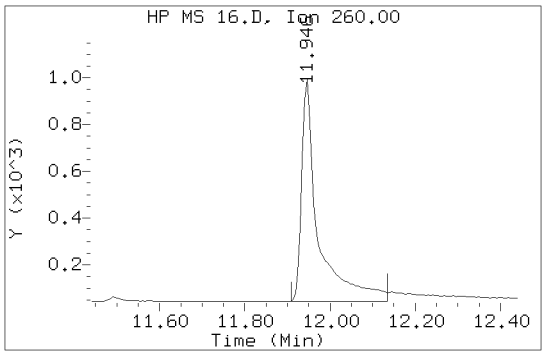
BEFORE

MASS
260
AREA
2544
HEIGHT
947
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
260
AREA
2544
HEIGHT
947
29-Jun-2023
14:27
ALSHS
Ser



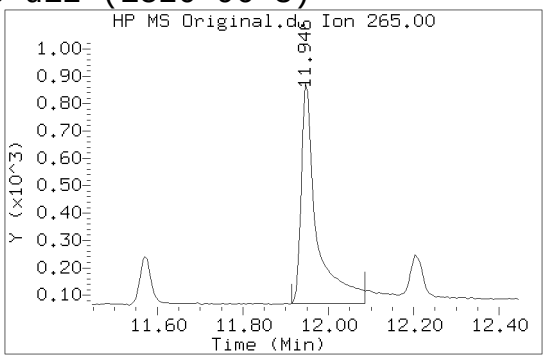
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

Perylene-d12 (1520-96-3)

Reason Code:

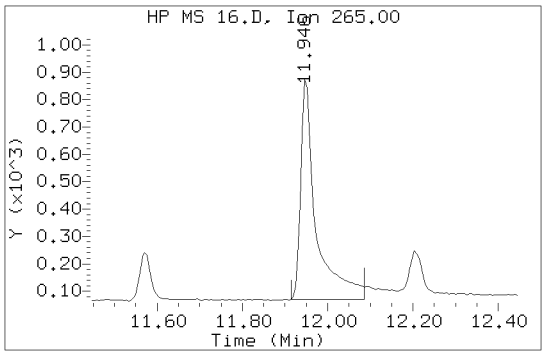
BEFORE

MASS
265
AREA
2015
HEIGHT
803
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
265
AREA
2015
HEIGHT
803
29-Jun-2023
14:27
ALSHS
Ser

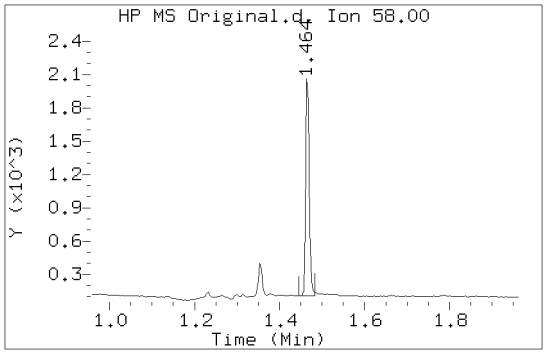


1,4-Dioxane ()

Reason Code:

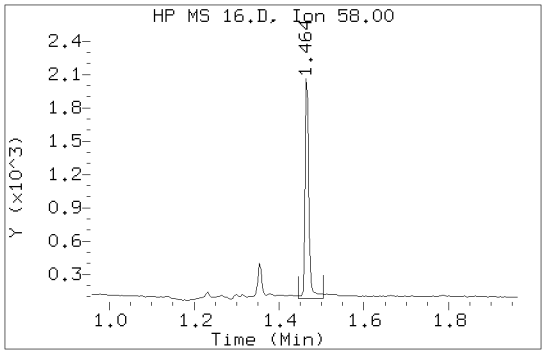
BEFORE

MASS
58
AREA
1149
HEIGHT
1956
16-Jun-2023
16:37
ALSHS
Server



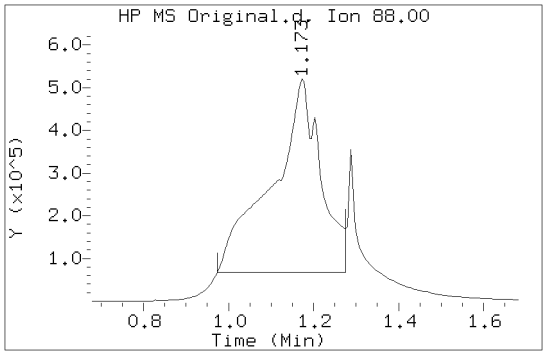
AFTER

MASS
58
AREA
1261
HEIGHT
1979
29-Jun-2023
14:27
ALSHS
Ser



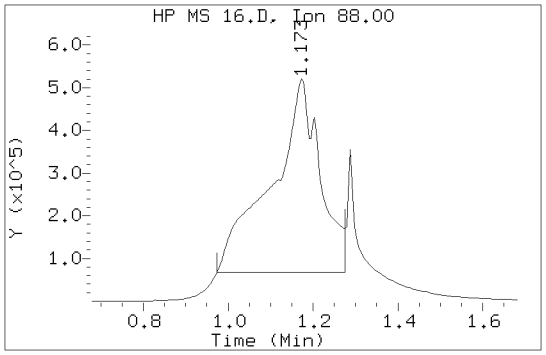
BEFORE

MASS
88
AREA
3609729
HEIGHT
452352
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
88
AREA
3609729
HEIGHT
452352
29-Jun-2023
14:27
ALSHS
Ser

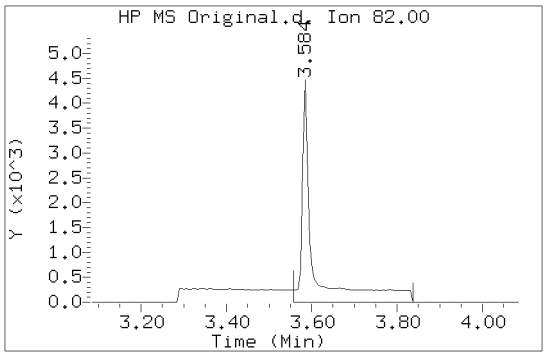


Nitrobenzene-d5 (4165-60-0)

Reason Code:

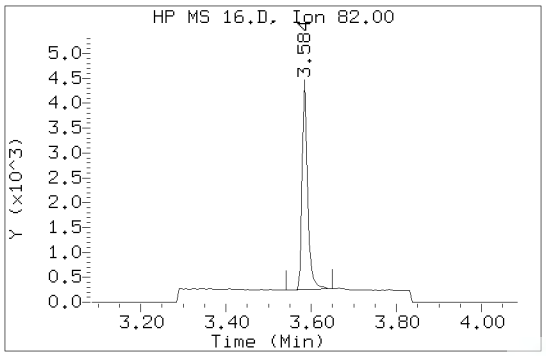
BEFORE

MASS
82
AREA
8001
HEIGHT
4469
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
82
AREA
3797
HEIGHT
4214
29-Jun-2023
14:27
ALSHS
Ser



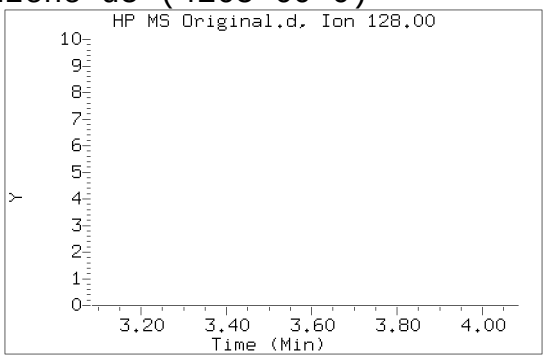
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

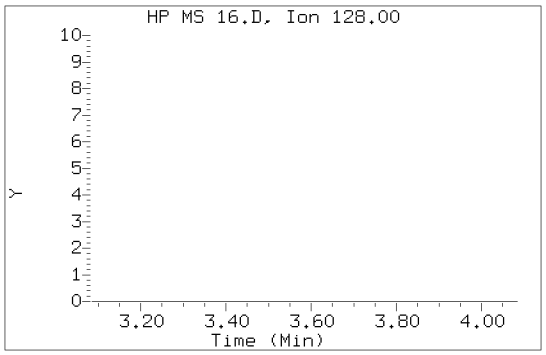
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



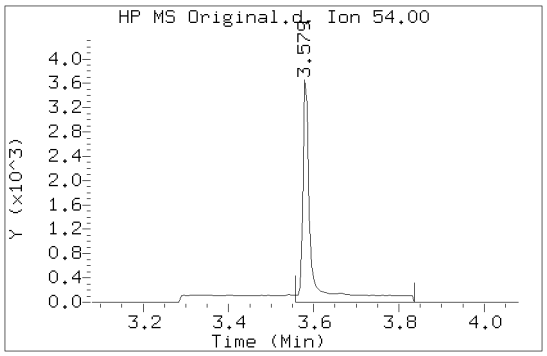
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser



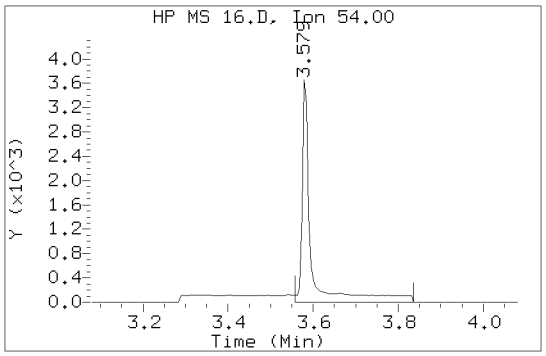
BEFORE

MASS
54
AREA
5382
HEIGHT
3655
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
54
AREA
5382
HEIGHT
3655
29-Jun-2023
14:27
ALSHS
Ser

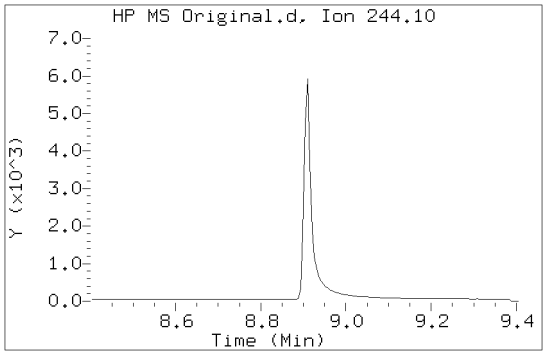


4-Terphenyl-d14 (1718-51-0)

Reason Code:

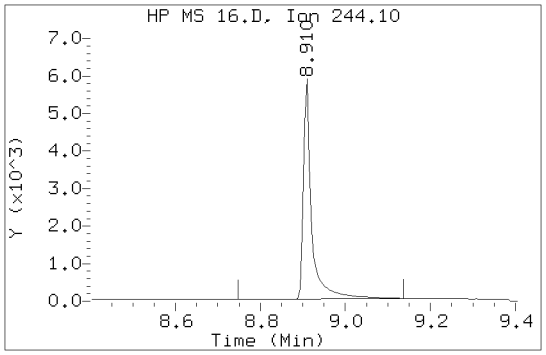
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



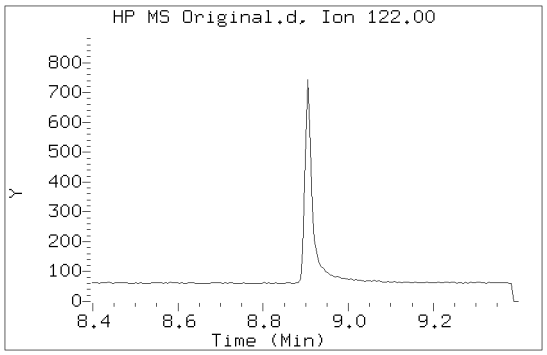
AFTER

MASS
244.1
AREA
7743
HEIGHT
5864
29-Jun-2023
14:27
ALSHS
Ser



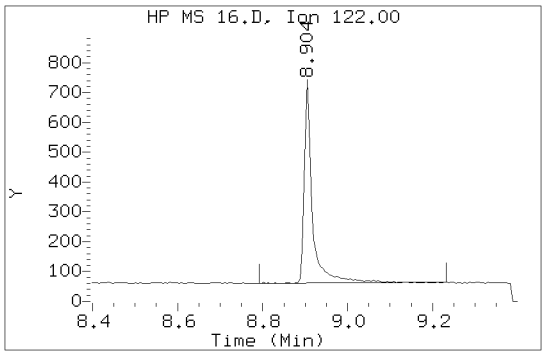
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
122
AREA
889
HEIGHT
681
29-Jun-2023
14:27
ALSHS
Ser



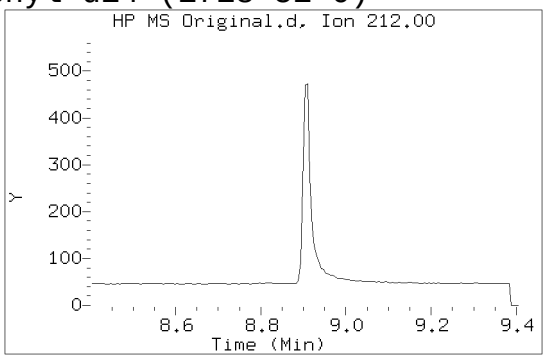
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

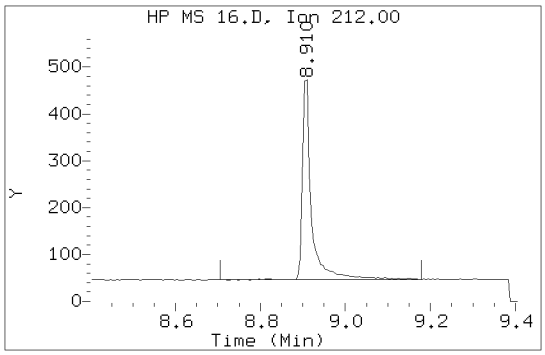
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
212
AREA
632
HEIGHT
426
29-Jun-2023
14:27
ALSHS
Ser



2-Fluorobiphenyl (321-60-8)

Reason Code:

BEFORE

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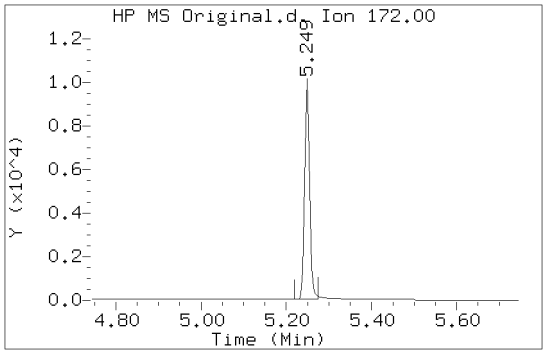
8416
HEIGHT
10125
16-Jun-2023
16:37
ALSHS
Server



AFTER

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HEIGHT
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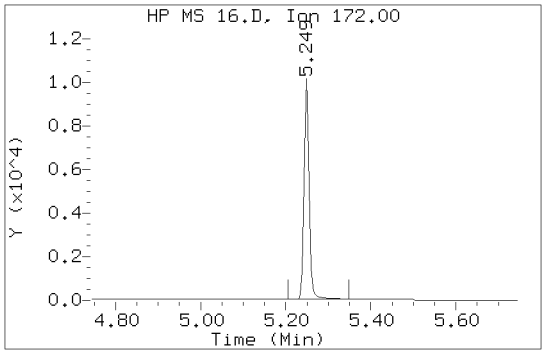
14:27
ALSHS
Ser



BEFORE

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AREA
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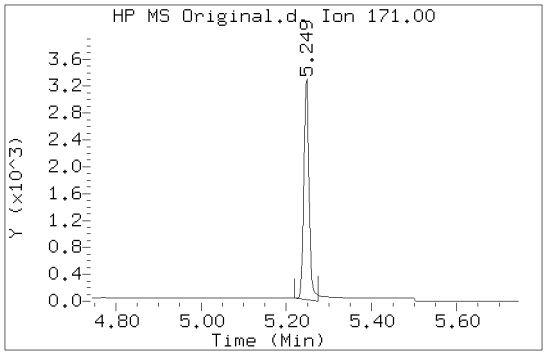
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
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AREA
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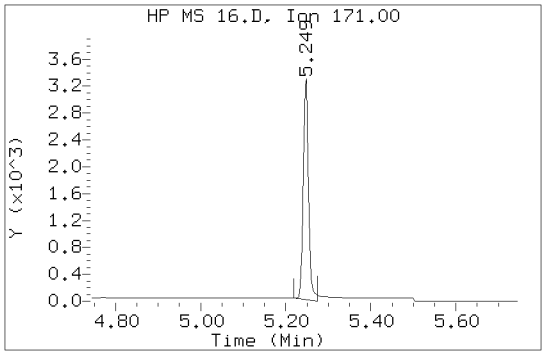
HEIGHT
3286
29-Jun-2023
14:27
ALSHS
Ser



right solutions.
right partner.

Raw Data SV 6 440304

Semi-Volatiles by EPA 8270SIM

Workorder

HS23061712

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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\230629.b\01.D Page 1
Report Date: 29-Jun-2023 09:37

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\SV6.i\230629.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 29-JUN-2023 09:23
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230629.b\DFTPP.m
Meth Date : 14-Mar-2023 15:59 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: NAHSTW7015

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		
4.496	6.357	-1.861	198	129208			0.00- 100.00	88.16
4.496	6.357	-1.861	51	54859			10.00- 80.00	42.46
4.496	6.357	-1.861	68	735			0.00- 2.00	1.56
4.496	6.357	-1.861	69	46968			0.00- 0.00	36.35
4.496	6.357	-1.861	70	170			0.00- 2.00	0.36
4.496	6.357	-1.861	127	54824			10.00- 80.00	42.43
4.496	6.357	-1.861	197	1787			0.00- 2.00	1.38
4.496	6.357	-1.861	199	8415			5.00- 9.00	6.51
4.496	6.357	-1.861	275	31904			10.00- 60.00	24.69
4.496	6.357	-1.861	365	4720			1.00- 100.00	3.65
4.496	6.357	-1.861	441	21376			0.01- 99.99	73.96
4.496	6.357	-1.861	442	146560			50.00- 150.00	113.43
4.496	6.357	-1.861	443	28904			15.00- 24.00	19.72

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	42.46
68	Less than 2.00% of mass 69	0.57 (1.56)
69	Mass 69 relative abundance	36.35
70	Less than 2.00% of mass 69	0.13 (0.36)
127	10.00 - 80.00% of mass 198	42.43
197	Less than 2.00% of mass 198	1.38
199	5.00 - 9.00% of mass 198	6.51
275	10.00 - 60.00% of mass 198	24.69
365	1.00 - 100.00% of mass 198	3.65
441	Present, but less than mass 443	16.54
442	50.00 - 150.00% of mass 198	113.43
443	15.00 - 24.00% of mass 442	22.37 (19.72)

Data File: 01.D
Spectrum: HP ChemStation MS 01.D, Scan 357: 4.496 min. (SUB)
Location of Maximum: 442.00
Number of points: 244

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.90	175	125.00	722	197.00	1787	277.00	2383
38.00	562	127.00	54824	198.00	129208	277.90	389
39.10	3574	128.00	3821	199.00	8415	283.00	287
40.00	36	129.00	21256	200.00	920	283.90	210
50.00	13006	130.00	1796	201.50	684	285.00	582
51.00	54856	131.00	321	202.10	223	288.90	153
52.00	3021	134.00	532	202.90	877	290.00	189
55.00	359	135.00	1537	204.00	5027	293.00	681
56.00	1827	135.90	648	205.00	7818	294.10	155
57.00	4375	137.00	695	206.10	33216	294.90	299
57.90	159	138.00	211	207.00	4122	296.00	9536
60.90	702	140.00	242	208.00	1021	297.00	1423
62.00	597	141.00	2999	209.00	295	301.90	193
63.00	2190	142.00	822	210.10	664	303.00	984
63.90	259	143.00	574	211.00	1482	304.00	440
65.00	984	144.10	182	214.90	332	308.00	166
67.90	735	144.90	196	216.00	831	314.00	533
69.00	46968	145.90	440	217.00	9421	315.00	1120
69.90	170	147.00	1331	218.00	1147	316.00	547
73.00	343	148.00	3293	221.00	6144	317.10	163
74.00	4428	148.90	602	222.00	1175	321.00	342
75.00	7466	151.40	615	223.00	2055	323.00	3326
76.00	2463	153.00	769	224.00	19696	324.10	622
77.10	53336	154.00	740	225.10	4647	327.00	350
78.10	3431	155.00	1605	225.90	450	328.00	326
79.00	3212	156.00	2637	227.00	8143	332.10	208
80.00	2304	157.00	502	228.00	1023	333.10	203
81.00	3713	157.90	476	229.00	1756	334.00	2255
81.90	750	159.00	524	230.00	212	334.90	489
83.00	819	160.10	682	231.00	621	340.90	257
84.00	66	161.00	1145	233.90	416	345.90	638
85.00	607	162.00	319	235.00	582	346.90	178
86.00	1056	165.00	816	236.00	438	352.00	1235
87.00	440	166.00	938	237.00	456	353.10	951
88.00	207	167.00	5541	239.00	253	354.00	991
91.10	718	168.00	2139	240.00	195	355.10	210
92.00	768	169.10	463	240.90	323	365.00	4720
93.00	5684	170.00	209	242.00	887	366.00	628
94.00	337	171.00	278	243.00	979	370.90	219
96.00	274	171.90	501	244.10	13977	372.00	1794
98.00	3925	173.00	756	245.00	1864	373.00	460
99.00	3048	174.10	1039	246.00	2983	382.90	594
100.00	279	175.00	2350	247.00	558	384.00	164
101.00	2339	176.00	546	247.80	194	390.00	261
103.00	445	177.00	1107	249.00	587	401.00	180

104.00	1191	177.90	265	252.00	180	402.00	881
105.00	1115	179.00	4007	252.90	446	403.00	855
106.00	477	180.00	3409	254.00	502	404.00	288
107.00	17064	181.00	1605	255.00	80472	421.00	907
108.00	2648	182.10	222	256.00	12109	422.00	1069
108.90	371	183.90	404	257.00	993	423.00	6900
110.00	29168	185.00	2219	258.00	4393	424.00	1315
111.00	4223	186.00	16359	259.00	694	425.00	169
112.00	544	187.00	4704	259.90	179	441.00	21376
112.90	203	188.00	454	264.90	1409	442.00	146560
116.00	841	189.00	920	265.90	339	443.10	28904
117.00	12274	191.00	469	271.00	183	444.00	2676
118.00	746	192.00	1507	272.00	312	445.00	159
120.00	181	193.00	1771	273.00	2791		
122.00	1142	194.00	421	274.00	5796		
123.00	1672	194.90	228	275.00	31904		
123.90	644	196.00	3226	276.00	4231		

Data File: \\nahstws005\Target\chem\SV6.i\230629.b\03.D Page 1
Report Date: 29-Jun-2023 10:30

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230629.b\03.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 29-JUN-2023 10:12
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230629.b\DXSIM.m
Meth Date : 29-Jun-2023 10:28 jiayi.lu Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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	2.637	2.637	(1.000)	3374	0.10000	(aM)
* 45 Naphthalene-d8	136	3.702	3.702	(1.000)	10198	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.082	3.082	(0.833)	2346	0.08000	0.07572(M)
* 86 Acenaphthene-d10	164	5.342	5.342	(1.000)	6091	0.10000	
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.885)	5308	0.08000	0.08522
* 126 Phenanthrene-d10	188	6.765	6.765	(1.000)	12457	0.10000	
* 182 Chrysene-d12	240	9.341	9.341	(1.000)	8771	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.351	8.351	(0.894)	5308	0.08000	0.08203(M)
* 198 Perylene-d12	264	11.038	11.038	(1.000)	8055	0.10000	(M)
1 1,4-Dioxane	58	1.084	1.084	(0.411)	818	0.08000	0.07145(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.

01202051

Data File: \\nahstws005\Target\chem\SV6.i\230629.b\03.D

Page 1

Date : 29-JUN-2023 10:12

Client ID: 14DX-0.08

Instrument: SV6.i

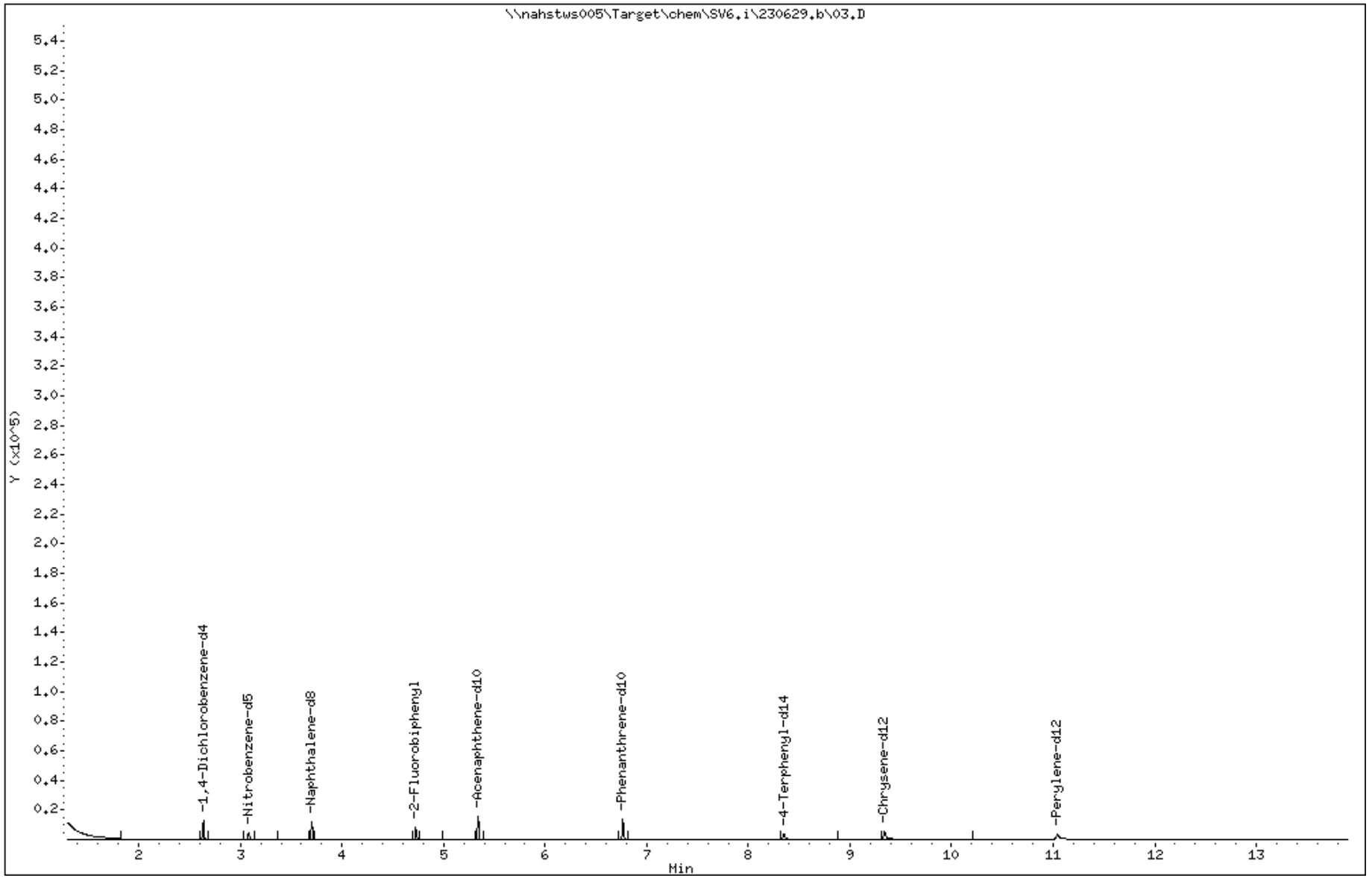
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File : \\nahstws005\Target\chem\SV6.i\230629.b\03.D
Inj Date : 29-JUN-2023 10:12
InstruID : SV6.i
LabSampID : 14DX-0.08

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

BEFORE

MASS
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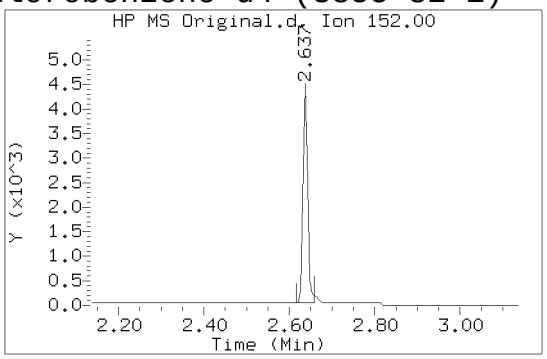
3260
HEIGHT
4469
29-Jun-2023
10:27
ALSHS
Server



AFTER

MASS
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AREA
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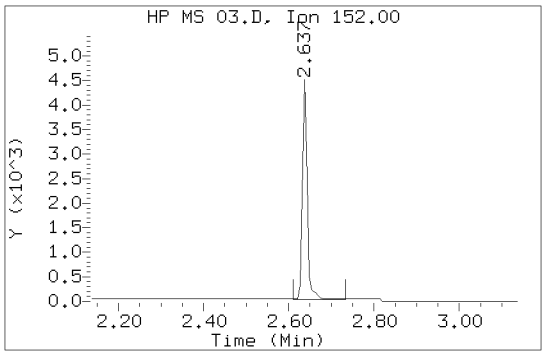
HEIGHT
4473
29-Jun-2023
10:30
ALSHS
Se



BEFORE

MASS
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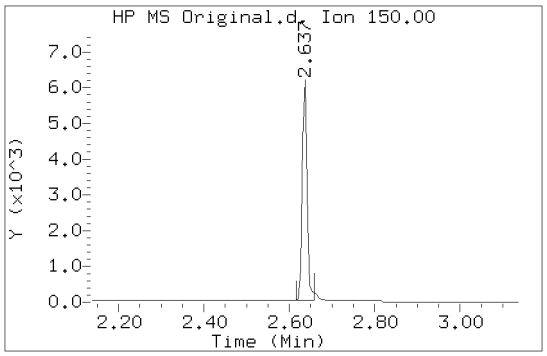
AREA
4715
HEIGHT
6168
29-Jun-2023
10:27
ALSHS
Server



AFTER

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AREA
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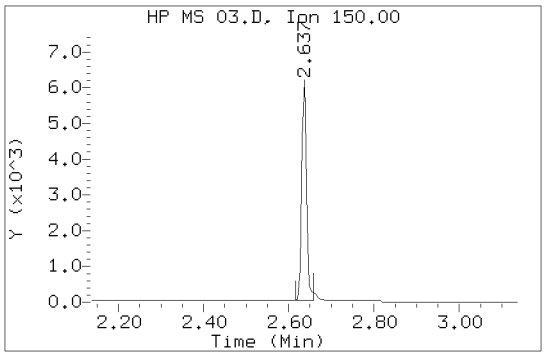
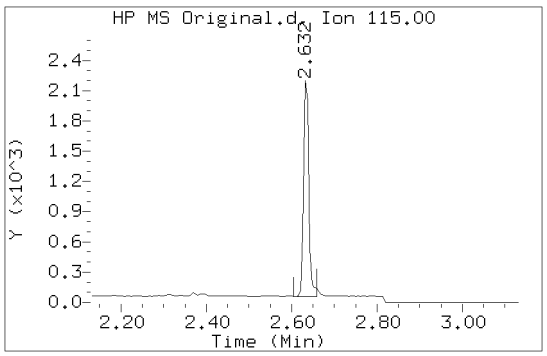
HEIGHT
6168
29-Jun-2023
10:30
ALSHS
Se



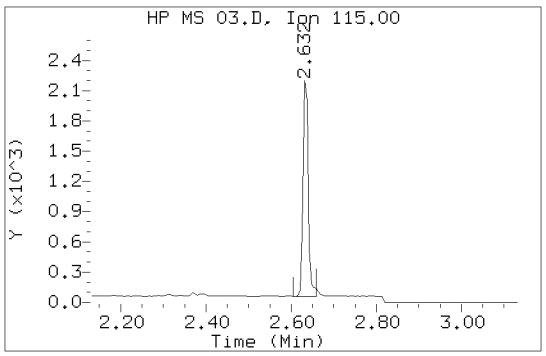
BEFORE

MASS
115
AREA
1782
HEIGHT
2140
29-Jun-2023
10:27
ALSHS
Server



AFTER

MASS
115
AREA
1782
HEIGHT
2140
29-Jun-2023
10:30
ALSHS
Se

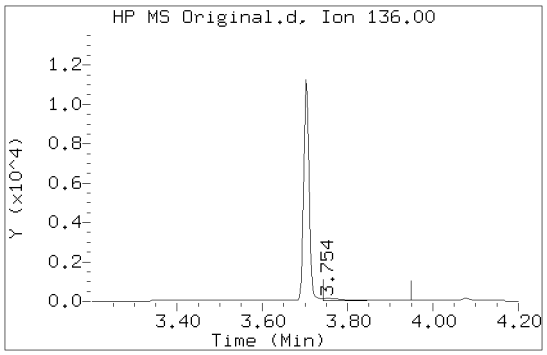


Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE

MASS
136
AREA
407
HEIGHT
133
29-Jun-2023
10:27
ALSHS
Server



AFTER

MASS
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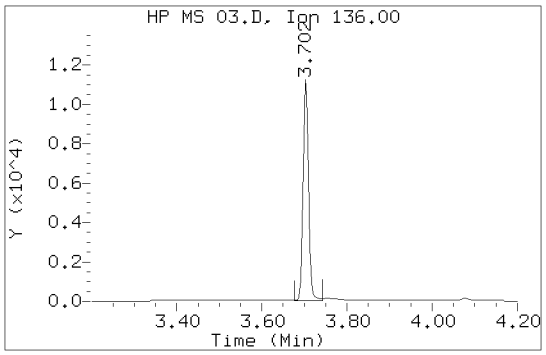
AREA
10198
HEIGHT
11213
29-Jun-2023
10:30
ALSHS
Se



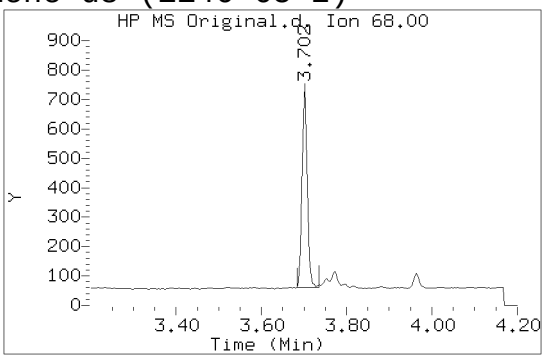
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\03.D
Inj Date : 29-JUN-2023 10:12
InstruID : SV6.i
LabSampID : 14DX-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE

MASS
68
AREA
602
HEIGHT
694
29-Jun-2023
10:27
ALSHS
Server



AFTER

MASS
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AREA
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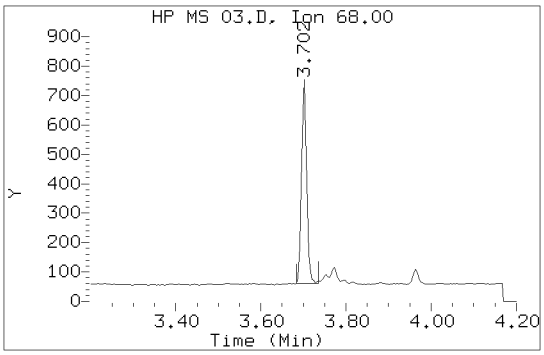
HEIGHT
694
29-Jun-2023
10:30
ALSHS
Se



Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE

MASS
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AREA
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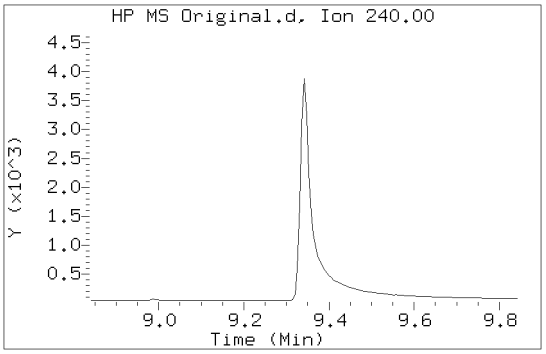
HEIGHT
0
29-Jun-2023
10:27
ALSHS
Server



AFTER

MASS
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AREA
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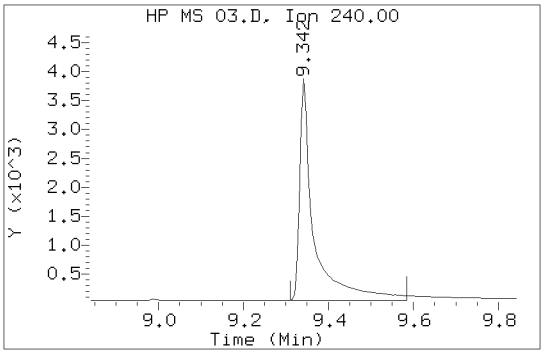
HEIGHT
3828
29-Jun-2023
10:30
ALSHS
Se



BEFORE

MASS
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AREA
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HEIGHT
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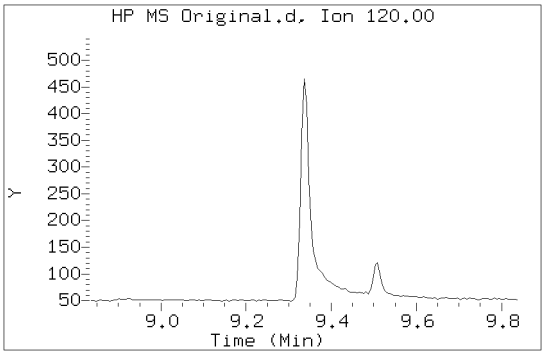
29-Jun-2023
10:27
ALSHS
Server



AFTER

MASS
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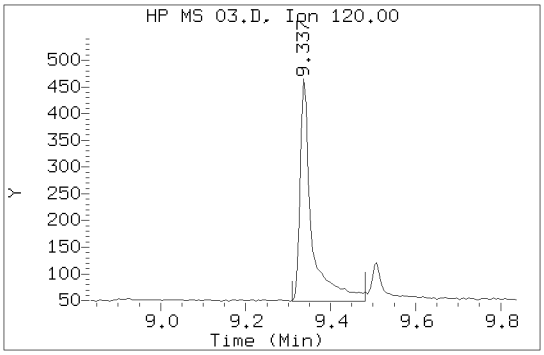
AREA
795
HEIGHT
416
29-Jun-2023
10:30
ALSHS
Se



BEFORE

MASS
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AREA
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HEIGHT
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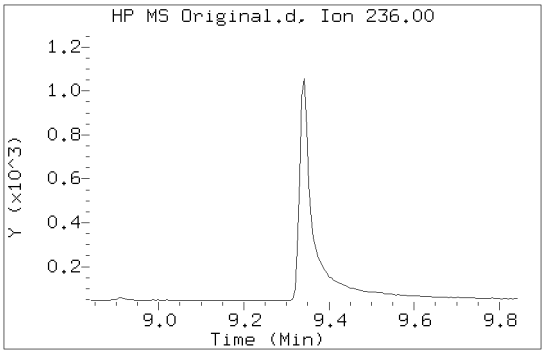
29-Jun-2023
10:27
ALSHS
Server



AFTER

MASS
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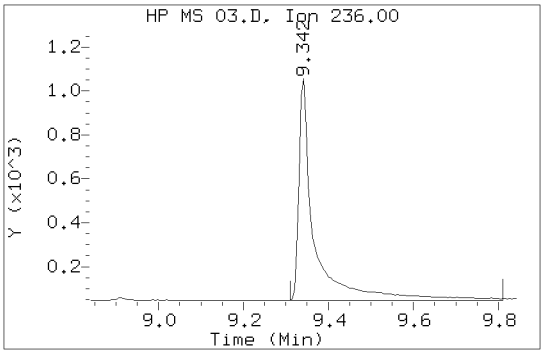
AREA
2583
HEIGHT
1009
29-Jun-2023
10:30
ALSHS
Se



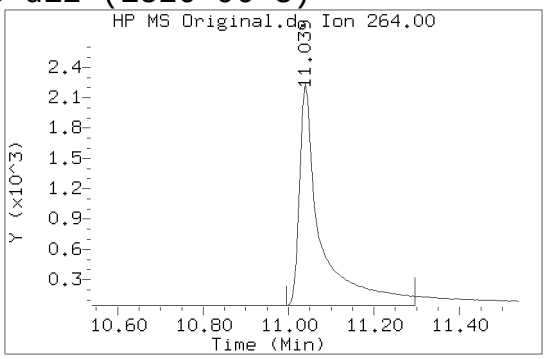
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\03.D
Inj Date : 29-JUN-2023 10:12
InstruID : SV6.i
LabSampID : 14DX-0.08

Perylene-d12 (1520-96-3)

Reason Code:

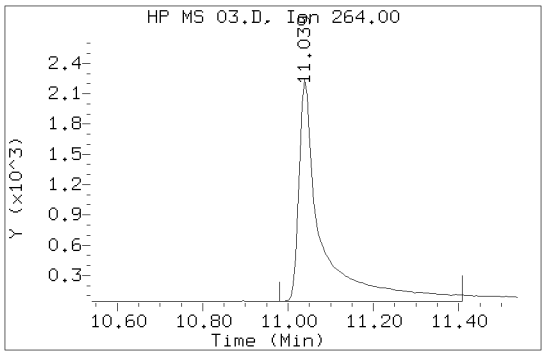
BEFORE

MASS
264
AREA
7483
HEIGHT
2190
29-Jun-2023
10:27
ALSHS
Server



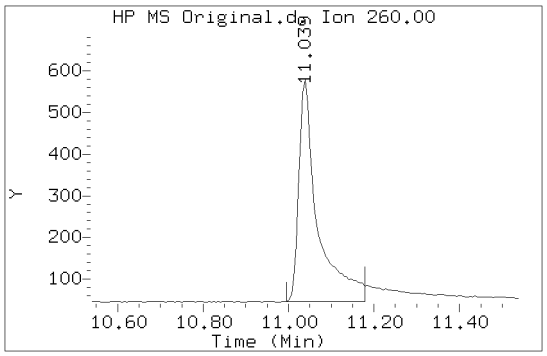
AFTER

MASS
264
AREA
8055
HEIGHT
2194
29-Jun-2023
10:30
ALSHS
Se



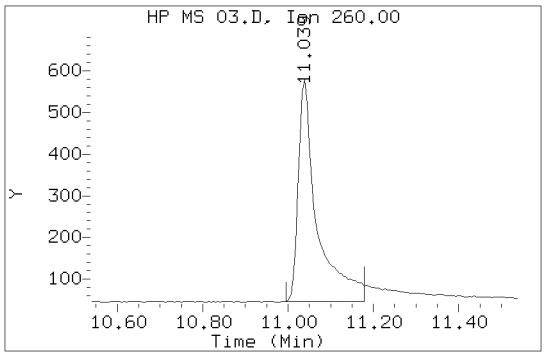
BEFORE

MASS
260
AREA
1632
HEIGHT
532
29-Jun-2023
10:27
ALSHS
Server



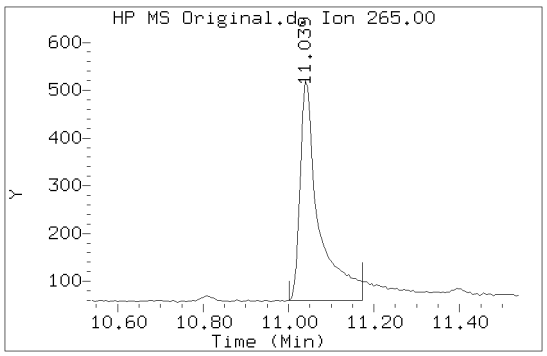
AFTER

MASS
260
AREA
1632
HEIGHT
532
29-Jun-2023
10:30
ALSHS
Se



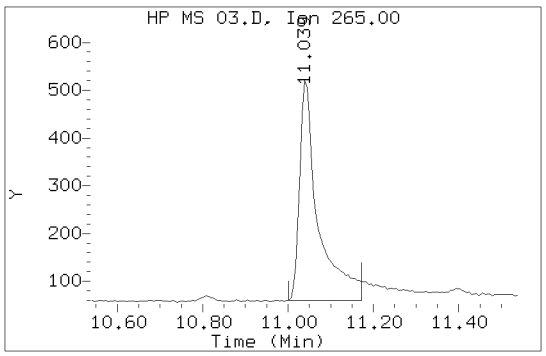
BEFORE

MASS
265
AREA
1397
HEIGHT
460
29-Jun-2023
10:27
ALSHS
Server



AFTER

MASS
265
AREA
1397
HEIGHT
460
29-Jun-2023
10:30
ALSHS
Se

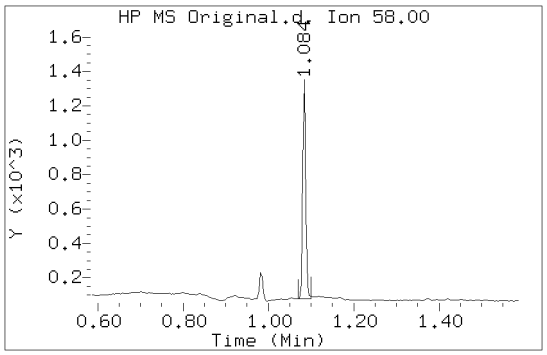


1,4-Dioxane ()

Reason Code:

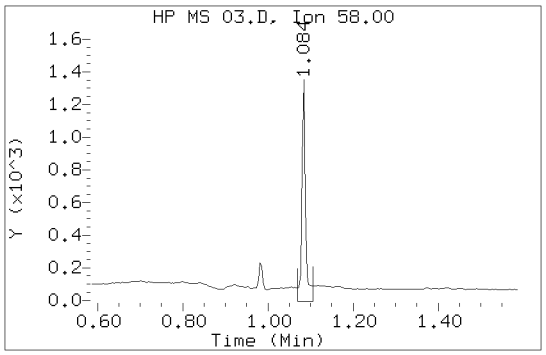
BEFORE

MASS
58
AREA
608
HEIGHT
1273
29-Jun-2023
10:27
ALSHS
Server



AFTER

MASS
58
AREA
818
HEIGHT
1357
29-Jun-2023
10:30
ALSHS
Se



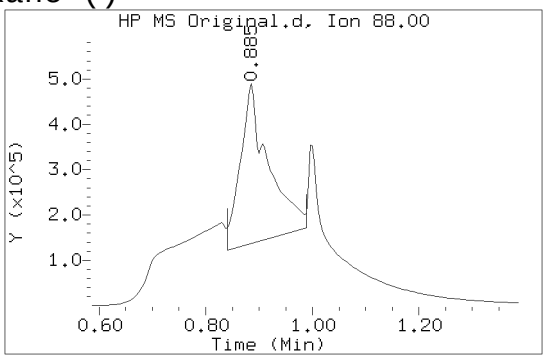
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\03.D
Inj Date : 29-JUN-2023 10:12
InstruID : SV6.i
LabSampID : 14DX-0.08

1,4-Dioxane ()

Reason Code:

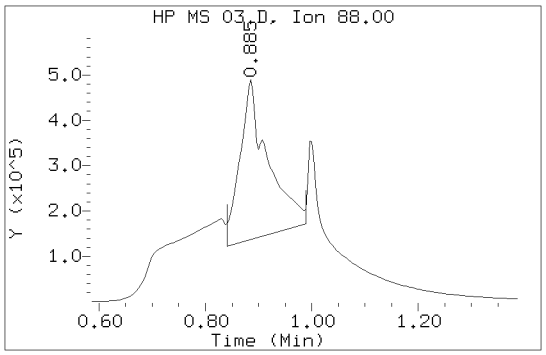
BEFORE

MASS
88
AREA
1292614
HEIGHT
352349
29-Jun-2023
10:27
ALSHS
Server



AFTER

MASS
88
AREA
1292614
HEIGHT
352349
29-Jun-2023
10:30
ALSHS
Se

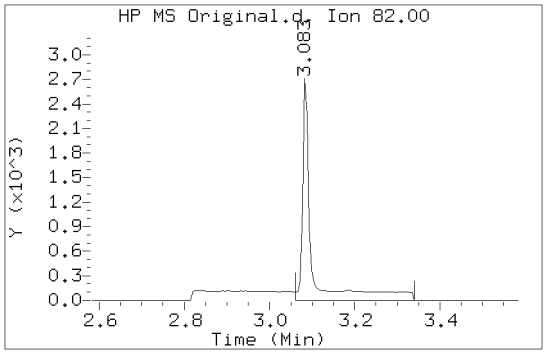


Nitrobenzene-d5 (4165-60-0)

Reason Code:

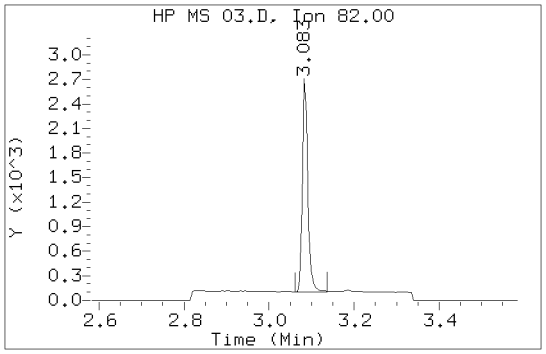
BEFORE

MASS
82
AREA
4092
HEIGHT
2708
29-Jun-2023
10:27
ALSHS
Server



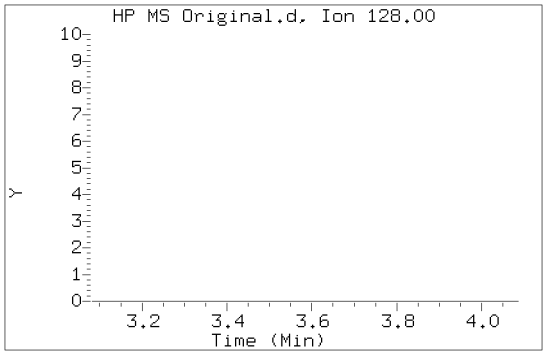
AFTER

MASS
82
AREA
2346
HEIGHT
2605
29-Jun-2023
10:30
ALSHS
Se



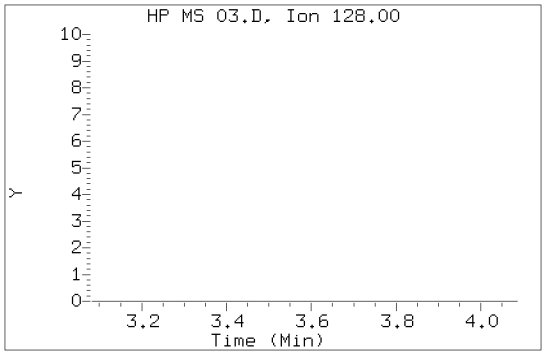
BEFORE

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
10:27
ALSHS
Server



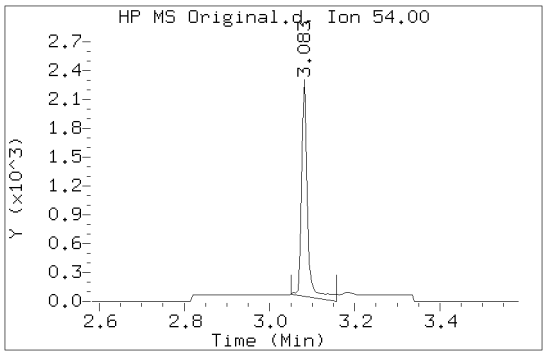
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
10:30
ALSHS
Se



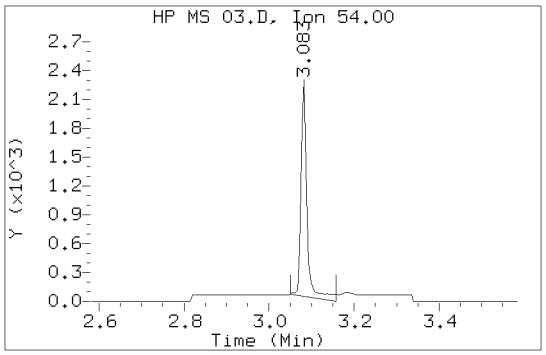
BEFORE

MASS
54
AREA
2223
HEIGHT
2256
29-Jun-2023
10:27
ALSHS
Server



AFTER

MASS
54
AREA
2223
HEIGHT
2256
29-Jun-2023
10:30
ALSHS
Se



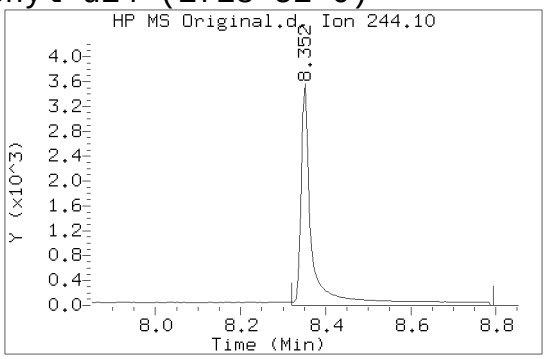
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\03.D
Inj Date : 29-JUN-2023 10:12
InstruID : SV6.i
LabSampID : 14DX-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

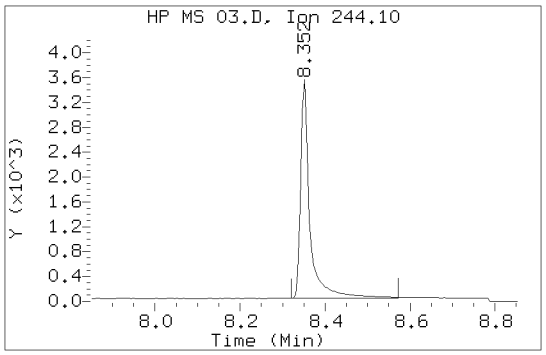
BEFORE

MASS
244.1
AREA
6789
HEIGHT
3567
29-Jun-2023
10:27
ALSHS
Server



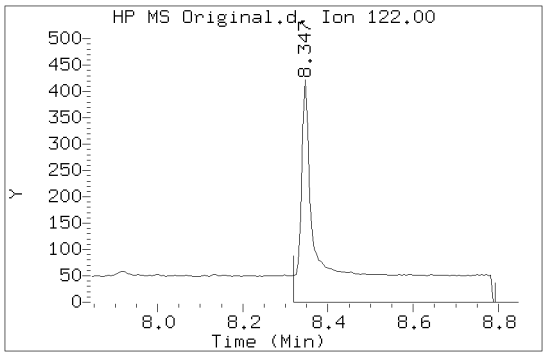
AFTER

MASS
244.1
AREA
5308
HEIGHT
3518
29-Jun-2023
10:30
ALSHS
Se



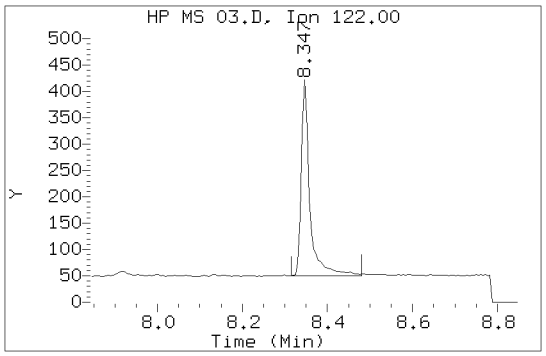
BEFORE

MASS
122
AREA
1944
HEIGHT
422
29-Jun-2023
10:27
ALSHS
Server



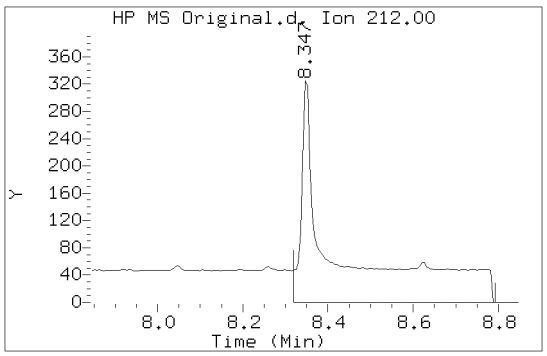
AFTER

MASS
122
AREA
516
HEIGHT
372
29-Jun-2023
10:30
ALSHS
Se



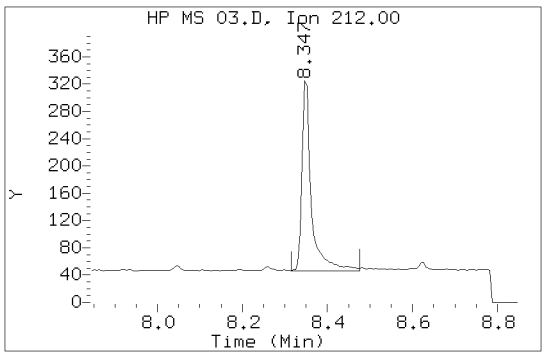
BEFORE

MASS
212
AREA
1776
HEIGHT
325
29-Jun-2023
10:27
ALSHS
Server



AFTER

MASS
212
AREA
429
HEIGHT
279
29-Jun-2023
10:30
ALSHS
Se



Data File: \\nahstws005\Target\chem\SV6.i\230629.b\06.D Page 1
Report Date: 29-Jun-2023 12:09

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230629.b\06.D
Lab Smp Id: MBLK-196799 Client Smp ID: MBLK-196799
Inj Date : 29-JUN-2023 11:25
Operator : LG Inst ID: SV6.i
Smp Info : MBLK-196799
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230629.b\DXSIM.m
Meth Date : 29-Jun-2023 10:28 jiayi.lu Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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	2.642	2.637	(1.000)	3138	0.10000	(a)
* 45 Naphthalene-d8	136	3.701	3.702	(1.000)	9866	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.087	3.082	(0.834)	2753	0.09184	0.09184(M)
* 86 Acenaphthene-d10	164	5.341	5.342	(1.000)	6513	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.885)	6190	0.09294	0.09294(M)
* 126 Phenanthrene-d10	188	6.765	6.765	(1.000)	11177	0.10000	
* 182 Chrysene-d12	240	9.341	9.341	(1.000)	9625	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.346	8.351	(0.893)	6428	0.09052	0.09052(M)
* 198 Perylene-d12	264	11.038	11.038	(1.000)	6541	0.10000	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01202058

Data File: \\nahstws005\Target\chem\SV6.i\230629.b\06.D

Date : 29-JUN-2023 11:25

Client ID: MBLK-196799

Instrument: SV6.i

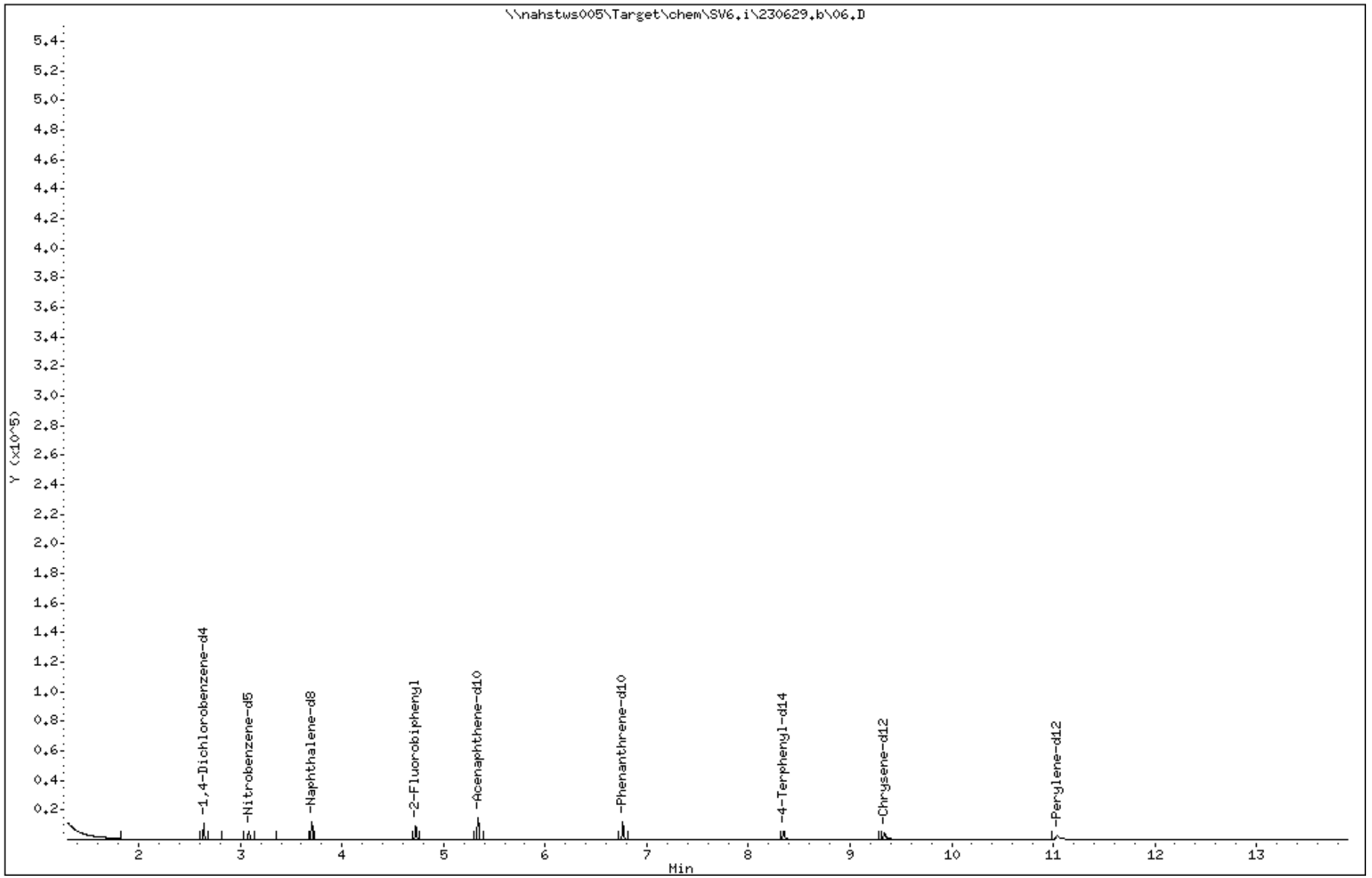
Sample Info: MBLK-196799

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



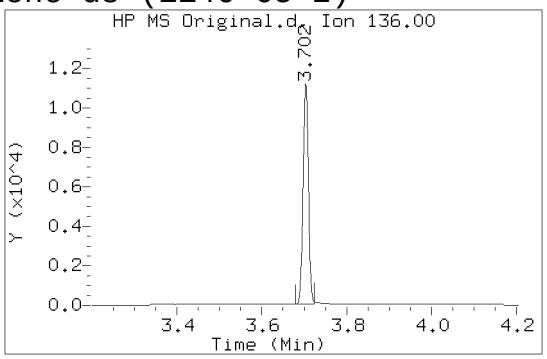
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\06.D
Inj Date : 29-JUN-2023 11:25
InstruID : SV6.i
LabSampID : MBLK-196799

Naphthalene-d8 (1146-65-2)

Reason Code:

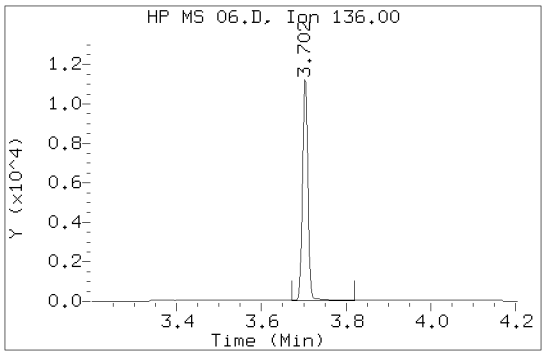
BEFORE

MASS
136
AREA
9610
HEIGHT
11179
29-Jun-2023
12:01
ALSHS
Server



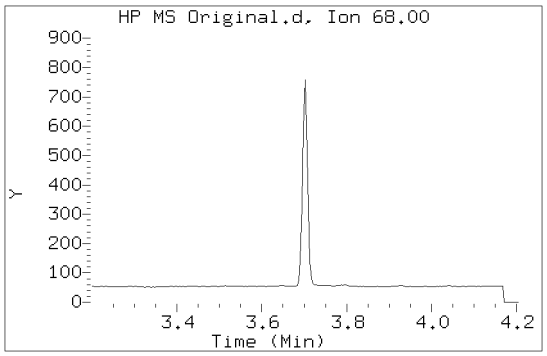
AFTER

MASS
136
AREA
9866
HEIGHT
11187
29-Jun-2023
12:09
ALSHS
Se



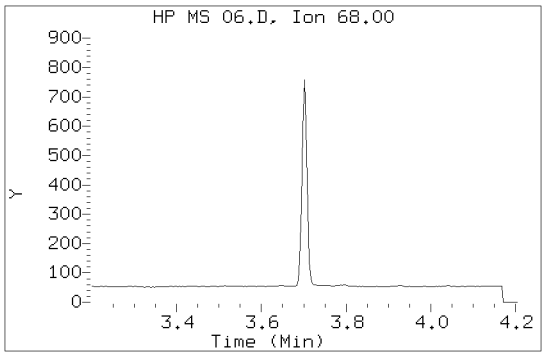
BEFORE

MASS
68
AREA
0
HEIGHT
0
29-Jun-2023
12:01
ALSHS
Server



AFTER

MASS
68
AREA
0
HEIGHT
0
29-Jun-2023
12:09
ALSHS
Se

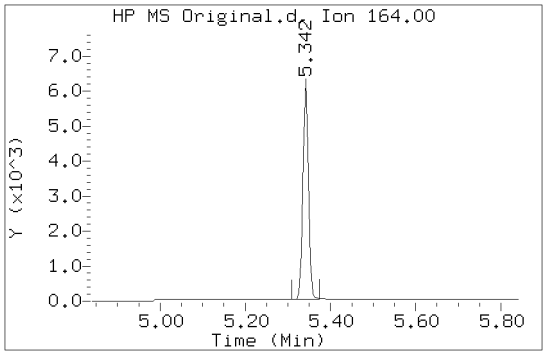


Acenaphthene-d10 (15067-26-2)

Reason Code:

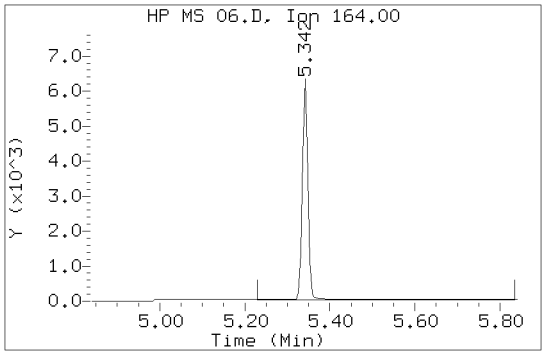
BEFORE

MASS
164
AREA
5655
HEIGHT
6298
29-Jun-2023
12:01
ALSHS
Server



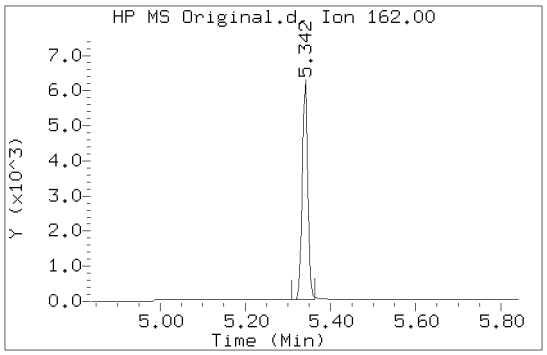
AFTER

MASS
164
AREA
6513
HEIGHT
6321
29-Jun-2023
12:09
ALSHS
Se



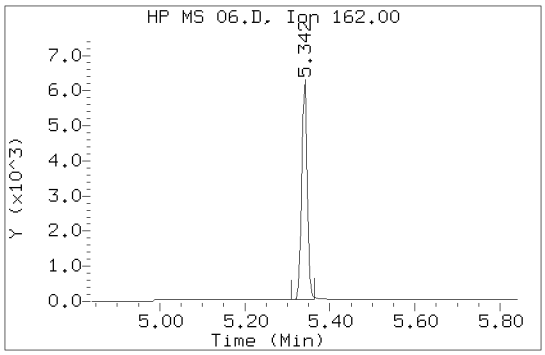
BEFORE

MASS
162
AREA
5741
HEIGHT
6263
29-Jun-2023
12:01
ALSHS
Server



AFTER

MASS
162
AREA
5741
HEIGHT
6263
29-Jun-2023
12:09
ALSHS
Se



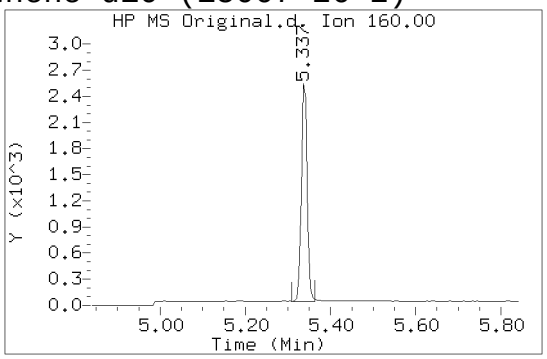
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\06.D
Inj Date : 29-JUN-2023 11:25
InstruID : SV6.i
LabSampID : MBLK-196799

Acenaphthene-d10 (15067-26-2)

Reason Code:

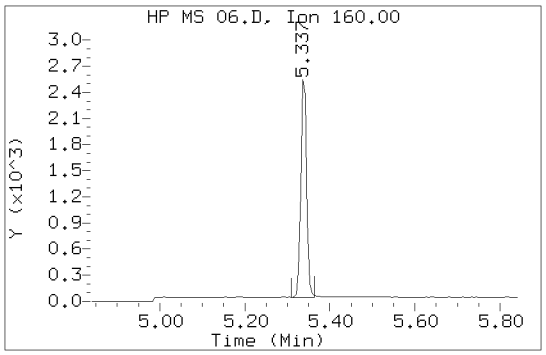
BEFORE

MASS
160
AREA
2405
HEIGHT
2499
29-Jun-2023
12:01
ALSHS
Server



AFTER

MASS
160
AREA
2405
HEIGHT
2499
29-Jun-2023
12:09
ALSHS
Se

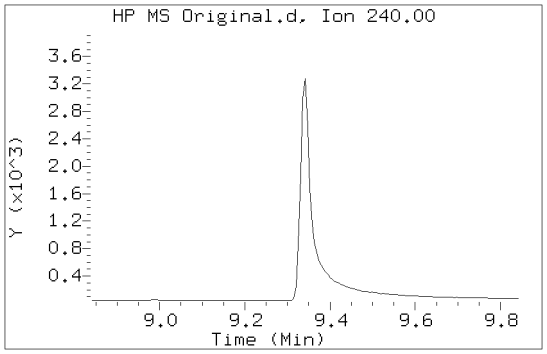


Chrysene-d12 (1719-03-5)

Reason Code:

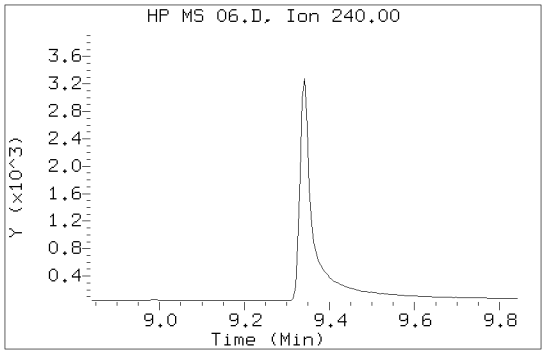
BEFORE

MASS
240
AREA
0
HEIGHT
0
29-Jun-2023
12:01
ALSHS
Server



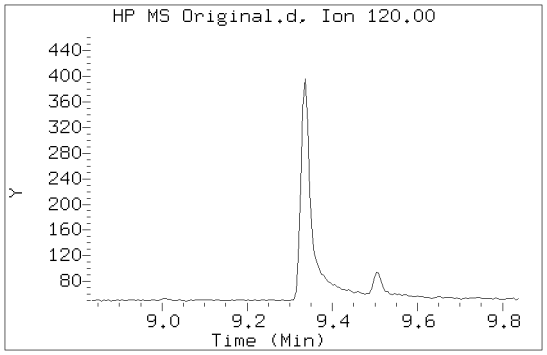
AFTER

MASS
240
AREA
9625
HEIGHT
3250
29-Jun-2023
12:09
ALSHS
Se



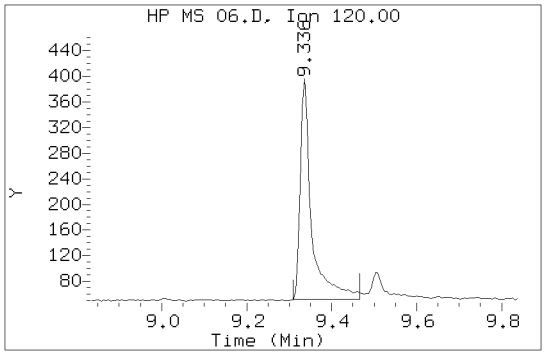
BEFORE

MASS
120
AREA
0
HEIGHT
0
29-Jun-2023
12:01
ALSHS
Server



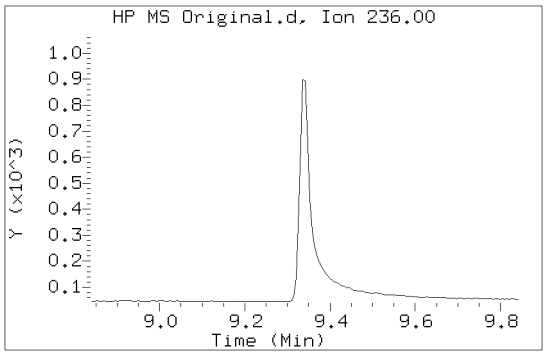
AFTER

MASS
120
AREA
637
HEIGHT
344
29-Jun-2023
12:09
ALSHS
Se



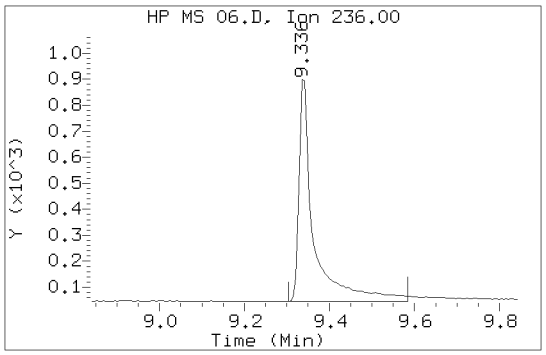
BEFORE

MASS
236
AREA
0
HEIGHT
0
29-Jun-2023
12:01
ALSHS
Server



AFTER

MASS
236
AREA
2054
HEIGHT
852
29-Jun-2023
12:09
ALSHS
Se



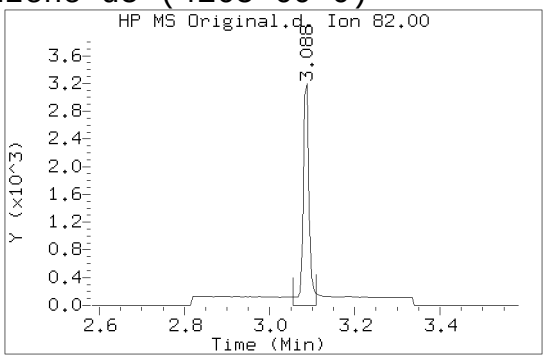
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\06.D
Inj Date : 29-JUN-2023 11:25
InstruID : SV6.i
LabSampID : MBLK-196799

Nitrobenzene-d5 (4165-60-0)

Reason Code:

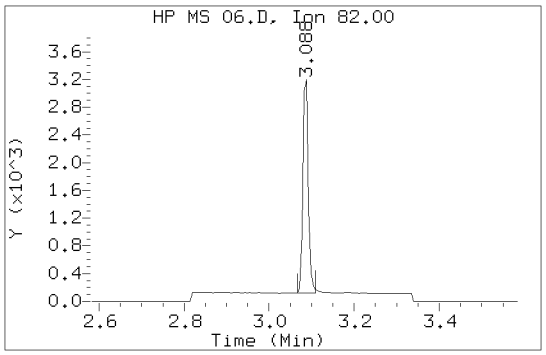
BEFORE

MASS
82
AREA
3181
HEIGHT
3197
29-Jun-2023
12:01
ALSHS
Server



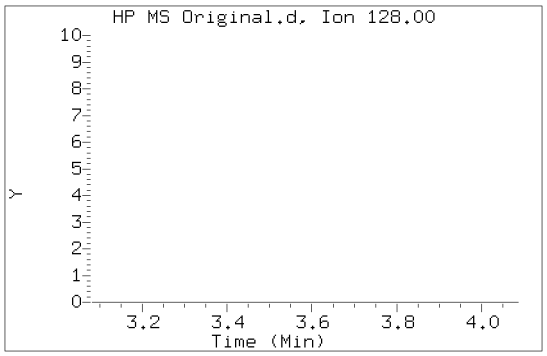
AFTER

MASS
82
AREA
2753
HEIGHT
3076
29-Jun-2023
12:09
ALSHS
Se



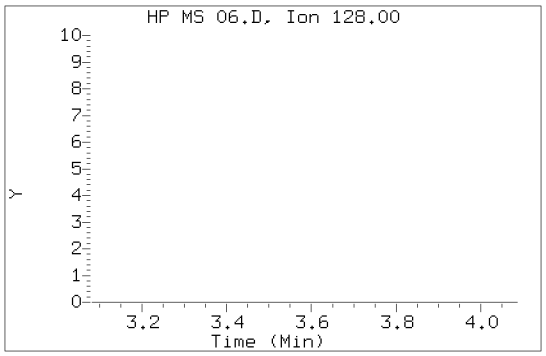
BEFORE

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
12:01
ALSHS
Server



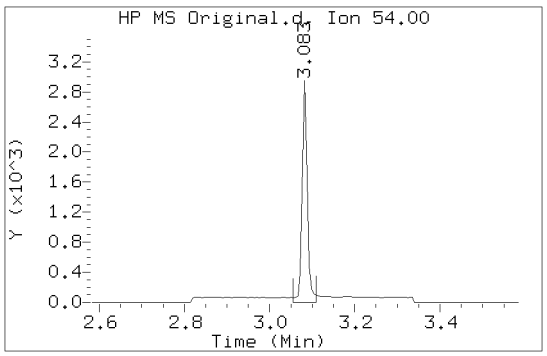
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
12:09
ALSHS
Se



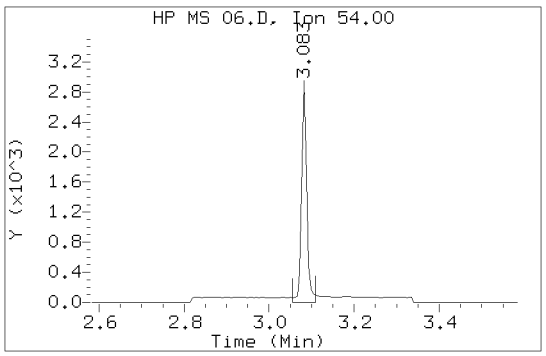
BEFORE

MASS
54
AREA
2558
HEIGHT
2949
29-Jun-2023
12:01
ALSHS
Server



AFTER

MASS
54
AREA
2558
HEIGHT
2949
29-Jun-2023
12:09
ALSHS
Se

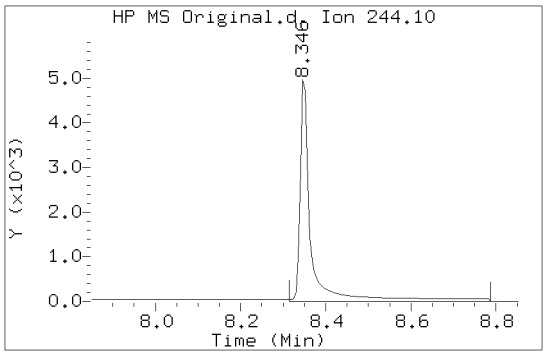


4-Terphenyl-d14 (1718-51-0)

Reason Code:

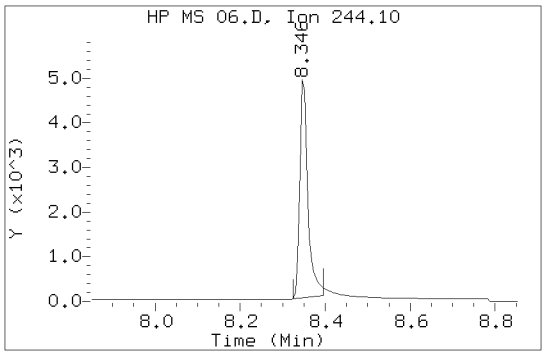
BEFORE

MASS
244.1
AREA
8900
HEIGHT
4966
29-Jun-2023
12:01
ALSHS
Server



AFTER

MASS
244.1
AREA
6428
HEIGHT
4887
29-Jun-2023
12:09
ALSHS
Se

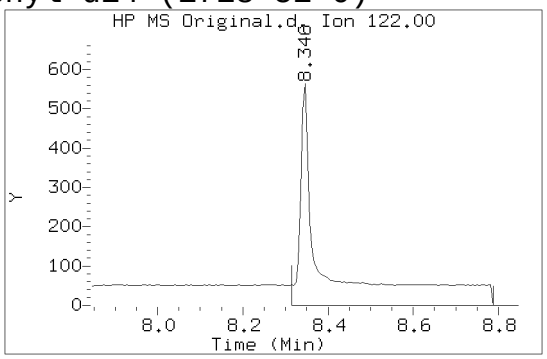


Data File : \\nahstws005\Target\chem\SV6.i\230629.b\06.D
Inj Date : 29-JUN-2023 11:25
InstruID : SV6.i
LabSampID : MBLK-196799

4-Terphenyl-d14 (1718-51-0)

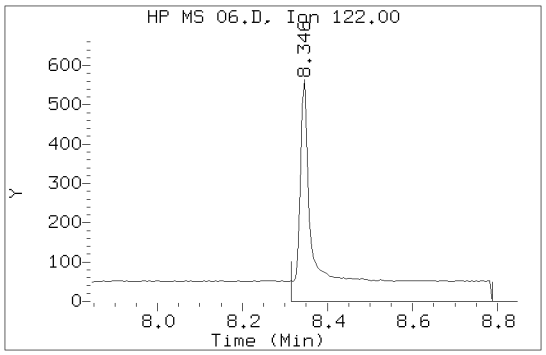
Reason Code:

BEFORE



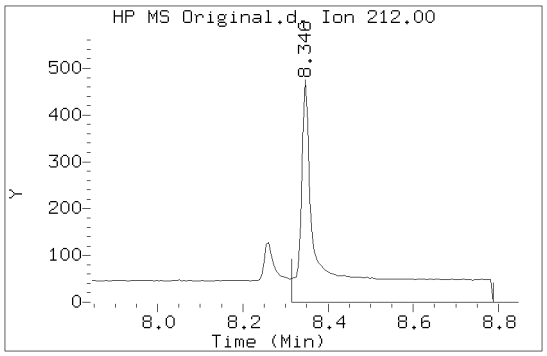
MASS
122
AREA
2174
HEIGHT
564
29-Jun-2023
12:01
ALSHS
Server

AFTER



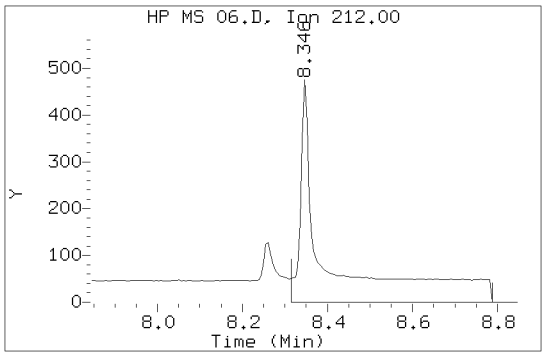
MASS
122
AREA
2174
HEIGHT
564
29-Jun-2023
12:09
ALSHS
Se

BEFORE



MASS
212
AREA
1974
HEIGHT
475
29-Jun-2023
12:01
ALSHS
Server

AFTER

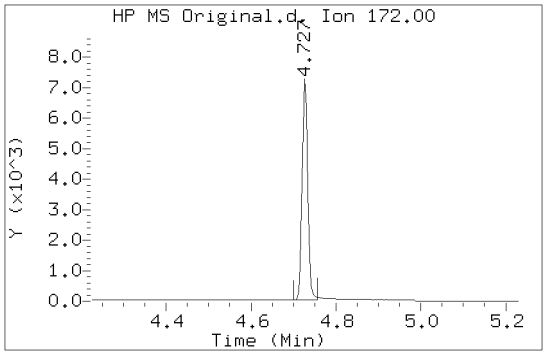


MASS
212
AREA
1974
HEIGHT
475
29-Jun-2023
12:09
ALSHS
Se

2-Fluorobiphenyl (321-60-8)

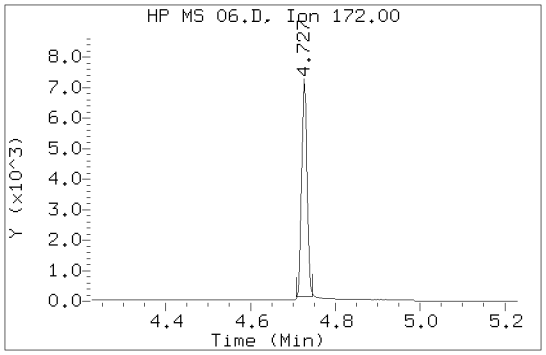
Reason Code:

BEFORE



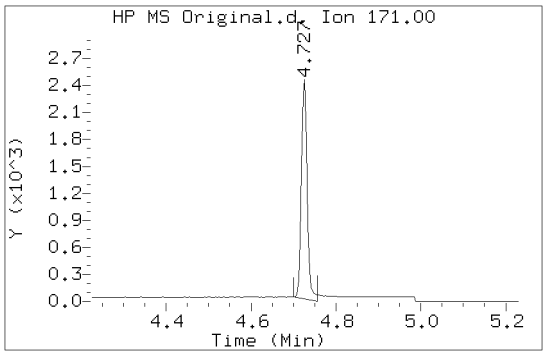
MASS
172
AREA
6528
HEIGHT
7237
29-Jun-2023
12:01
ALSHS
Server

AFTER



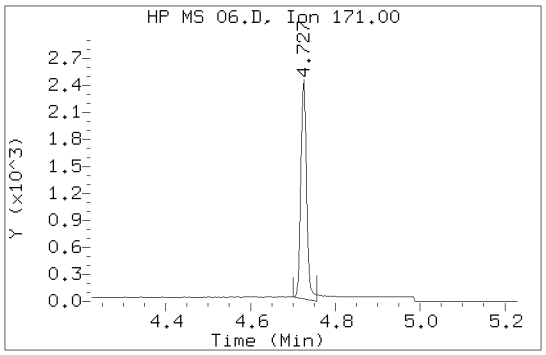
MASS
172
AREA
6190
HEIGHT
7128
29-Jun-2023
12:09
ALSHS
Se

BEFORE



MASS
171
AREA
2305
HEIGHT
2439
29-Jun-2023
12:01
ALSHS
Server

AFTER



MASS
171
AREA
2305
HEIGHT
2439
29-Jun-2023
12:09
ALSHS
Se

Data File: \\nahstws005\Target\chem\SV6.i\230629.b\07.D Page 1
Report Date: 29-Jun-2023 12:10

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230629.b\07.D
Lab Smp Id: LCS1-196799 Client Smp ID: LCS1-196799
Inj Date : 29-JUN-2023 11:43
Operator : LG Inst ID: SV6.i
Smp Info : LCS1-196799
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230629.b\DXSIM.m
Meth Date : 29-Jun-2023 10:28 jiayi.lu Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 7 QC Sample: LCS
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	2.637	2.637	(1.000)	2525	0.10000	(aM)
* 45 Naphthalene-d8	136	3.702	3.702	(1.000)	8855	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.082	3.082	(0.833)	2444	0.09084	0.09084(M)
* 86 Acenaphthene-d10	164	5.342	5.342	(1.000)	6710	0.10000	(QM)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.885)	6155	0.08970	0.08970
* 126 Phenanthrene-d10	188	6.759	6.765	(1.000)	8887	0.10000	
* 182 Chrysene-d12	240	9.336	9.341	(1.000)	9266	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.346	8.351	(0.894)	6192	0.09058	0.09058(M)
* 198 Perylene-d12	264	11.039	11.038	(1.000)	5389	0.10000	
1 1,4-Dioxane	58	1.084	1.084	(0.411)	618	0.07213	0.07213(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.

01202064

Data File: \\nahstws005\Target\chem\SV6.i\230629.b\07.D

Date : 29-JUN-2023 11:43

Client ID: LCS1-196799

Instrument: SV6.i

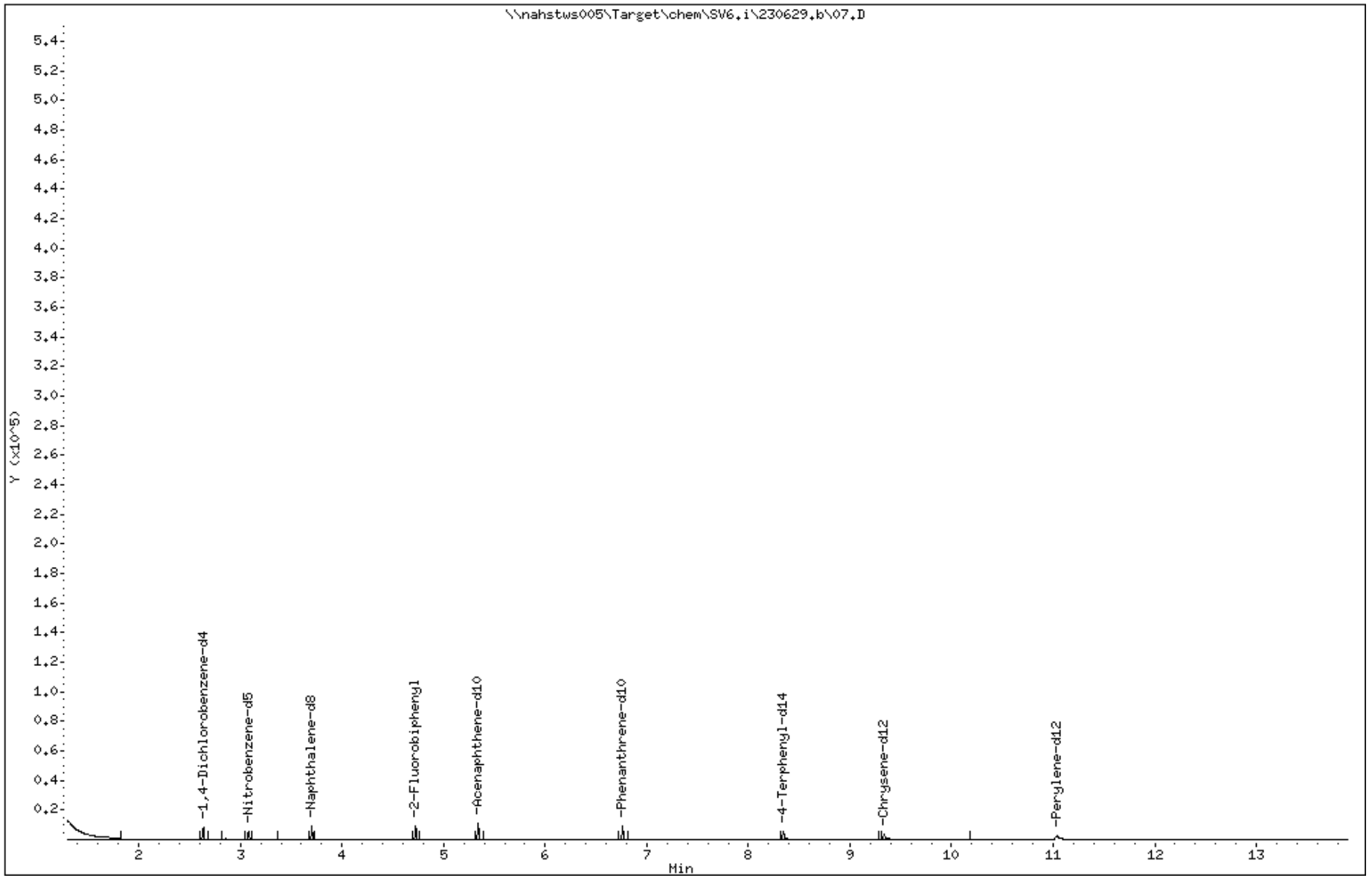
Sample Info: LCS1-196799

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



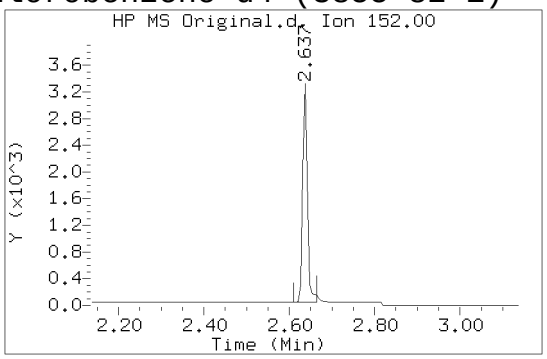
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\07.D
Inj Date : 29-JUN-2023 11:43
InstruID : SV6.i
LabSampID : LCS1-196799

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

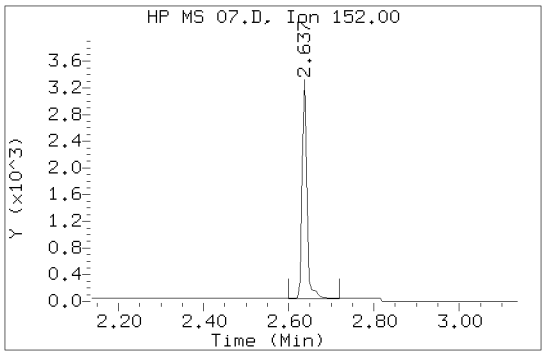
BEFORE

MASS
152
AREA
2435
HEIGHT
3277
29-Jun-2023
12:01
ALSHS
Server



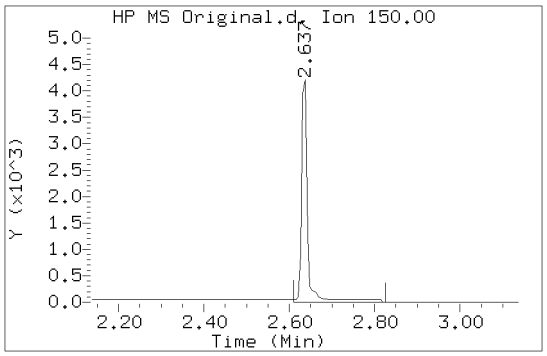
AFTER

MASS
152
AREA
2525
HEIGHT
3284
29-Jun-2023
12:10
ALSHS
Se



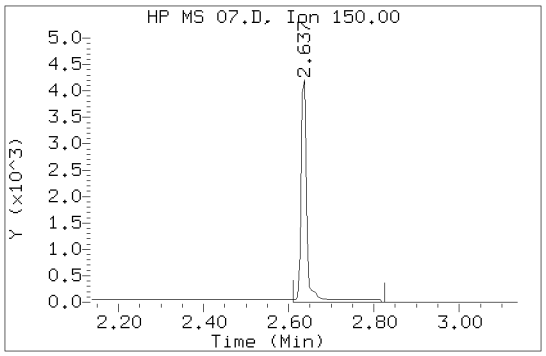
BEFORE

MASS
150
AREA
4160
HEIGHT
4208
29-Jun-2023
12:01
ALSHS
Server



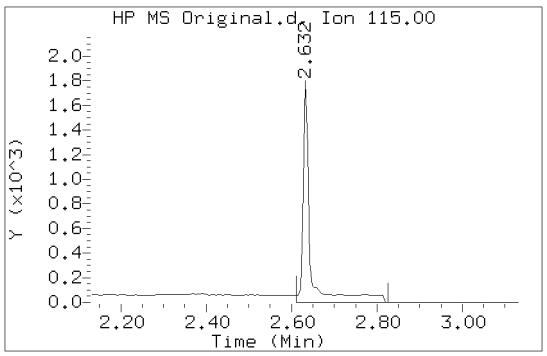
AFTER

MASS
150
AREA
4160
HEIGHT
4208
29-Jun-2023
12:10
ALSHS
Se



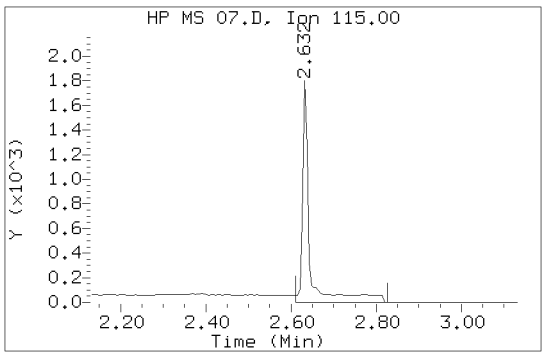
BEFORE

MASS
115
AREA
2060
HEIGHT
1801
29-Jun-2023
12:01
ALSHS
Server



AFTER

MASS
115
AREA
2060
HEIGHT
1801
29-Jun-2023
12:10
ALSHS
Se

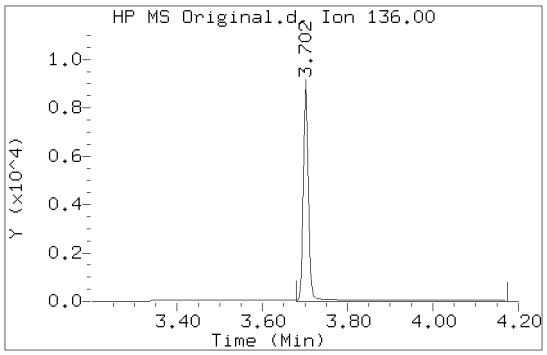


Naphthalene-d8 (1146-65-2)

Reason Code:

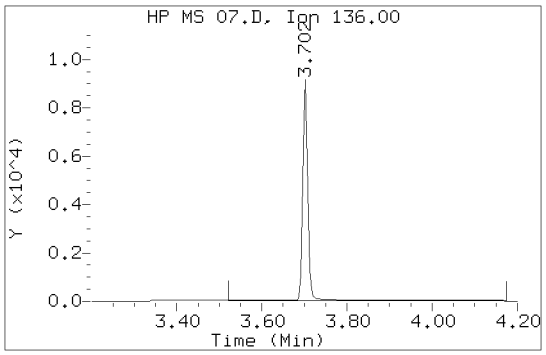
BEFORE

MASS
136
AREA
9136
HEIGHT
9167
29-Jun-2023
12:01
ALSHS
Server



AFTER

MASS
136
AREA
8855
HEIGHT
9148
29-Jun-2023
12:10
ALSHS
Se



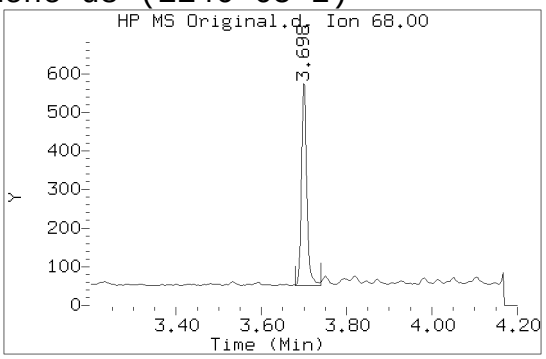
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\07.D
Inj Date : 29-JUN-2023 11:43
InstruID : SV6.i
LabSampID : LCS1-196799

Naphthalene-d8 (1146-65-2)

Reason Code:

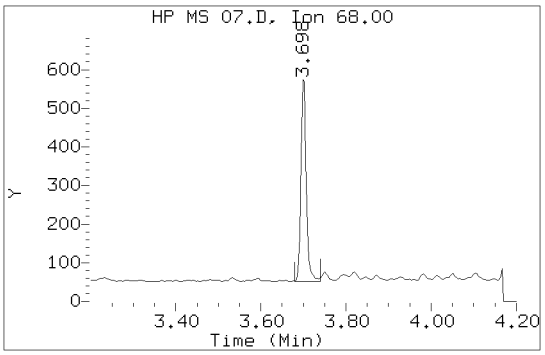
BEFORE

MASS
68
AREA
467
HEIGHT
522
29-Jun-2023
12:01
ALSHS
Server



AFTER

MASS
68
AREA
467
HEIGHT
522
29-Jun-2023
12:10
ALSHS
Se

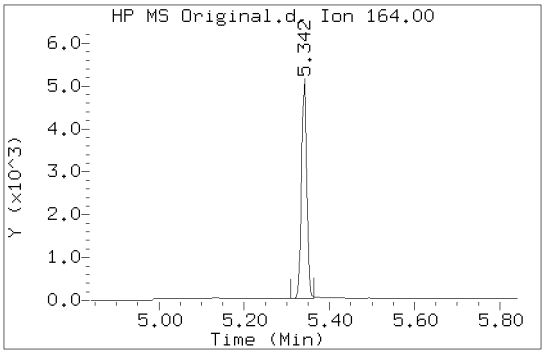


Acenaphthene-d10 (15067-26-2)

Reason Code:

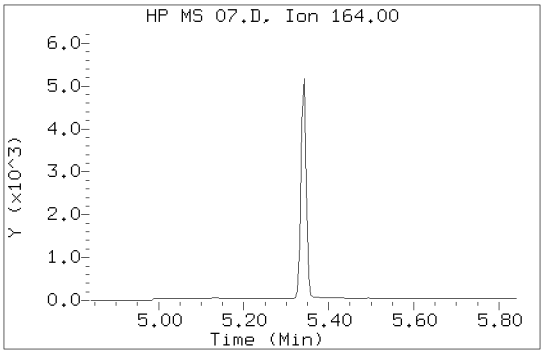
BEFORE

MASS
164
AREA
4468
HEIGHT
5123
29-Jun-2023
12:01
ALSHS
Server



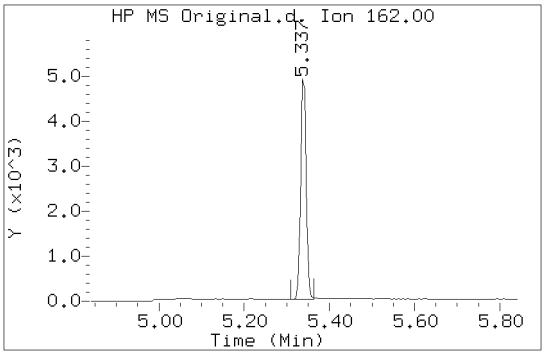
AFTER

MASS
164
AREA
6710
HEIGHT
5159
29-Jun-2023
12:10
ALSHS
Se



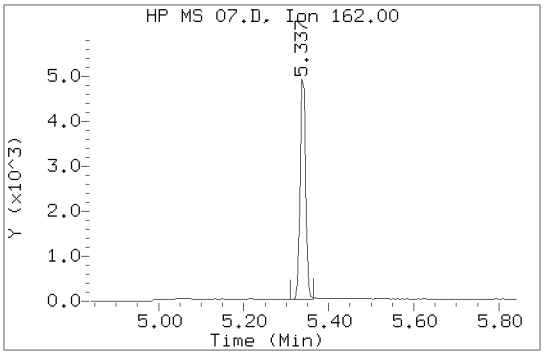
BEFORE

MASS
162
AREA
4523
HEIGHT
4886
29-Jun-2023
12:01
ALSHS
Server



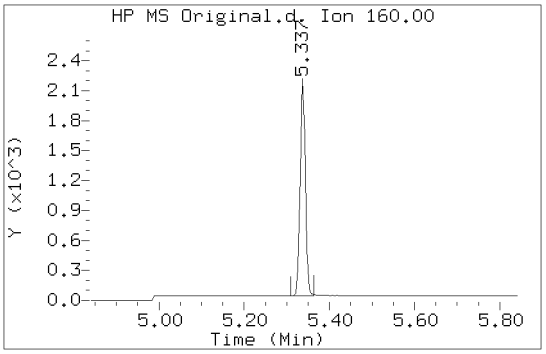
AFTER

MASS
162
AREA
4523
HEIGHT
4886
29-Jun-2023
12:10
ALSHS
Se



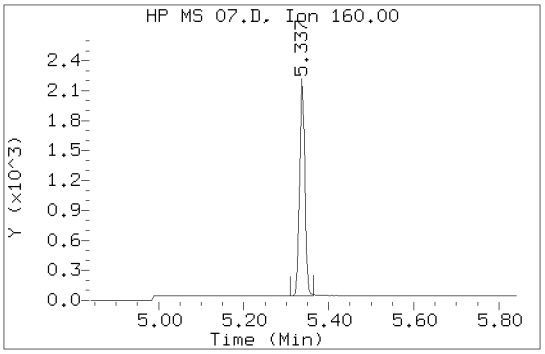
BEFORE

MASS
160
AREA
1879
HEIGHT
2174
29-Jun-2023
12:01
ALSHS
Server



AFTER

MASS
160
AREA
1879
HEIGHT
2174
29-Jun-2023
12:10
ALSHS
Se



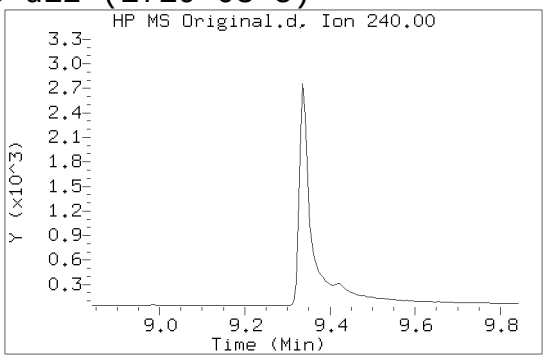
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\07.D
Inj Date : 29-JUN-2023 11:43
InstruID : SV6.i
LabSampID : LCS1-196799

Chrysene-d12 (1719-03-5)

Reason Code:

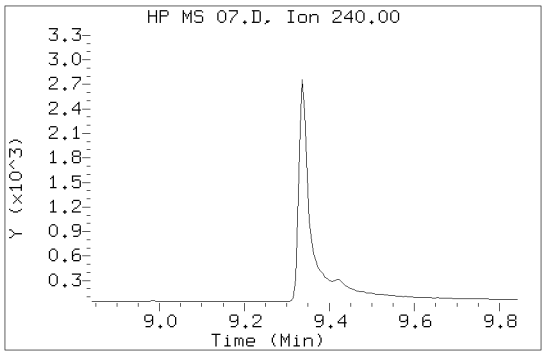
BEFORE

MASS
240
AREA
0
HEIGHT
0
29-Jun-2023
12:01
ALSHS
Server



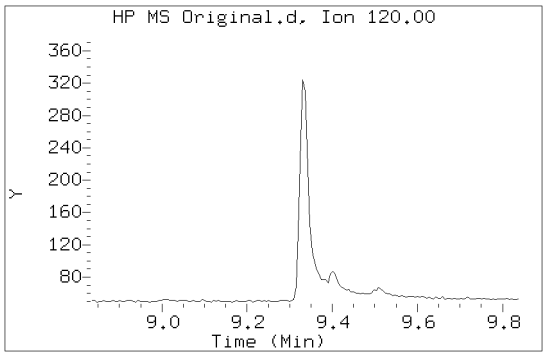
AFTER

MASS
240
AREA
9266
HEIGHT
2745
29-Jun-2023
12:10
ALSHS
Se



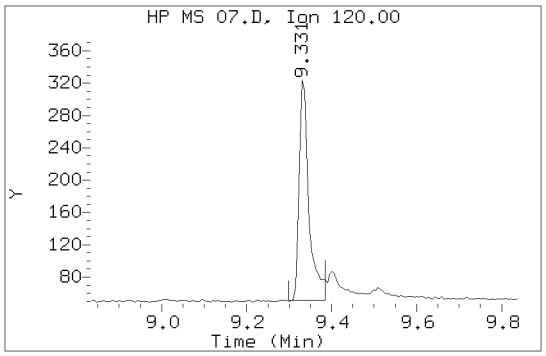
BEFORE

MASS
120
AREA
0
HEIGHT
0
29-Jun-2023
12:01
ALSHS
Server



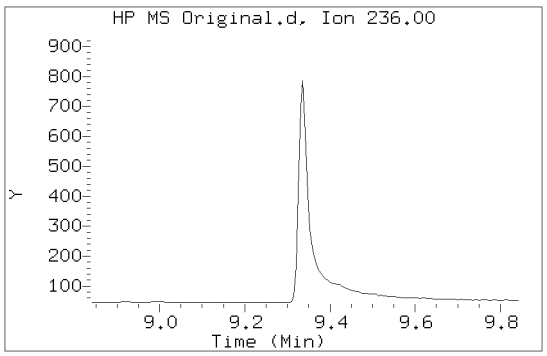
AFTER

MASS
120
AREA
436
HEIGHT
273
29-Jun-2023
12:10
ALSHS
Se



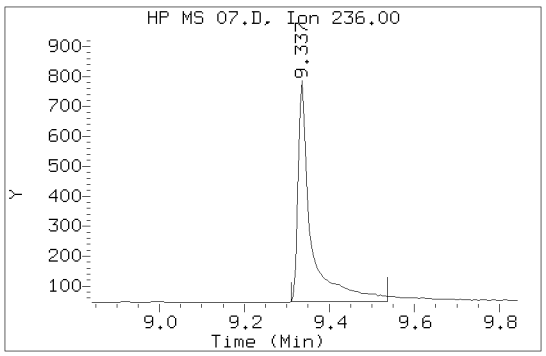
BEFORE

MASS
236
AREA
0
HEIGHT
0
29-Jun-2023
12:01
ALSHS
Server



AFTER

MASS
236
AREA
1574
HEIGHT
738
29-Jun-2023
12:10
ALSHS
Se

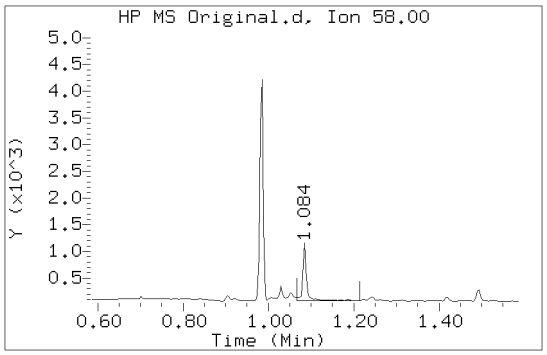


1,4-Dioxane ()

Reason Code:

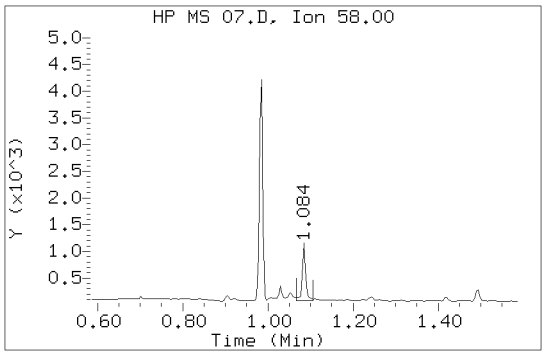
BEFORE

MASS
58
AREA
711
HEIGHT
1090
29-Jun-2023
12:01
ALSHS
Server



AFTER

MASS
58
AREA
618
HEIGHT
1090
29-Jun-2023
12:10
ALSHS
Se



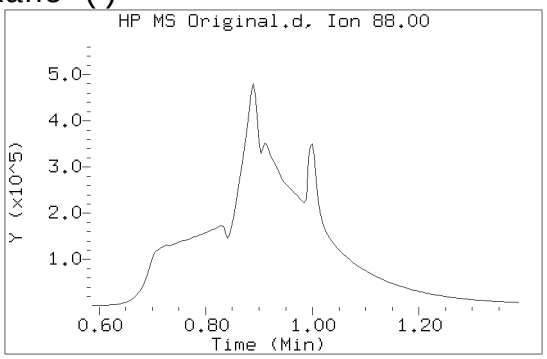
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\07.D
Inj Date : 29-JUN-2023 11:43
InstruID : SV6.i
LabSampID : LCS1-196799

1,4-Dioxane ()

Reason Code:

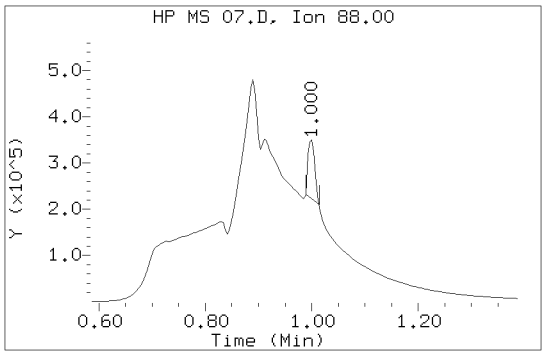
BEFORE

MASS
88
AREA
1586903
HEIGHT
348266
29-Jun-2023
12:01
ALSHS
Server



AFTER

MASS
88
AREA
112467
HEIGHT
127161
29-Jun-2023
12:10
ALSHS
Se

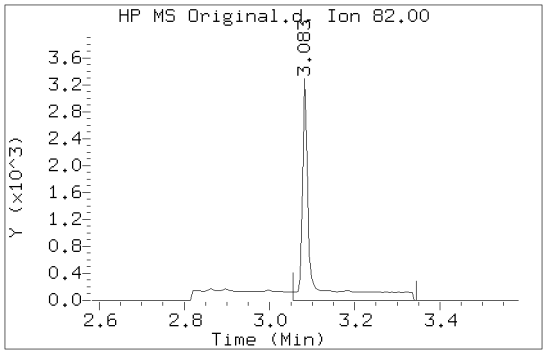


Nitrobenzene-d5 (4165-60-0)

Reason Code:

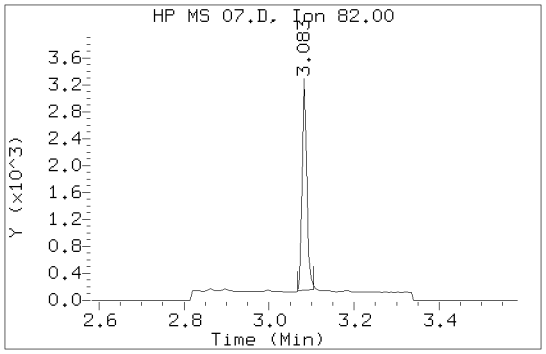
BEFORE

MASS
82
AREA
4664
HEIGHT
3293
29-Jun-2023
12:01
ALSHS
Server



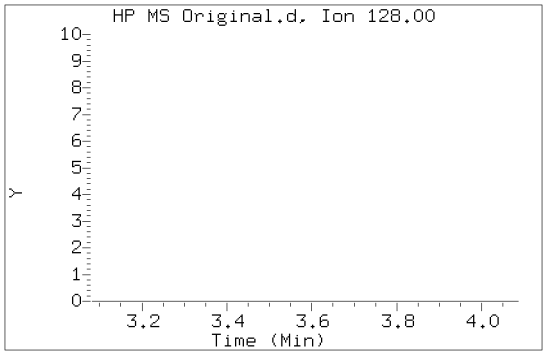
AFTER

MASS
82
AREA
2444
HEIGHT
3143
29-Jun-2023
12:10
ALSHS
Se



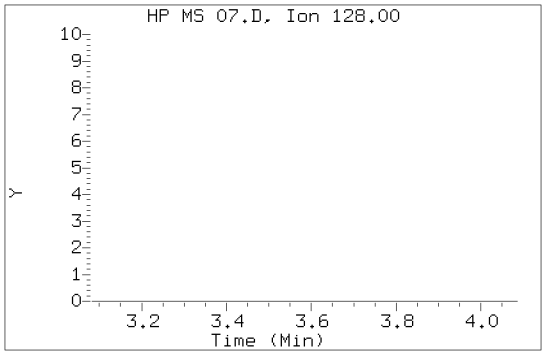
BEFORE

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
12:01
ALSHS
Server



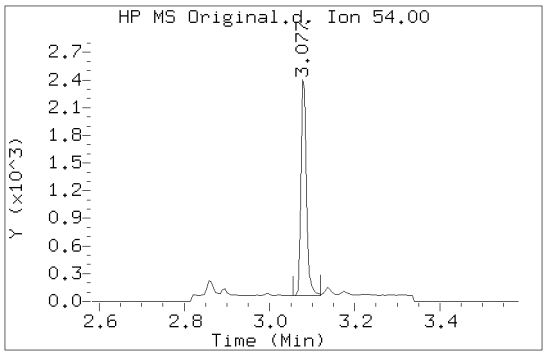
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
12:10
ALSHS
Se



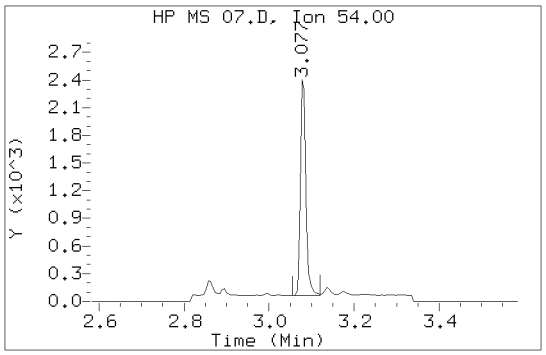
BEFORE

MASS
54
AREA
2115
HEIGHT
2339
29-Jun-2023
12:01
ALSHS
Server



AFTER

MASS
54
AREA
2115
HEIGHT
2339
29-Jun-2023
12:10
ALSHS
Se



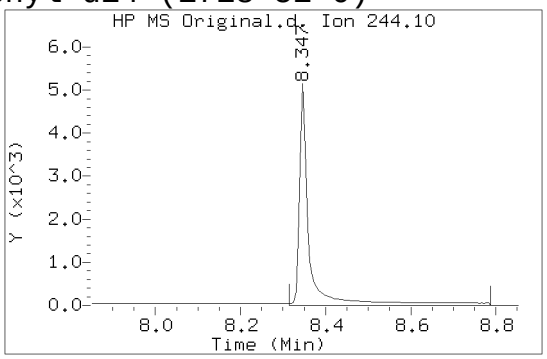
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\07.D
Inj Date : 29-JUN-2023 11:43
InstruID : SV6.i
LabSampID : LCS1-196799

4-Terphenyl-d14 (1718-51-0)

Reason Code:

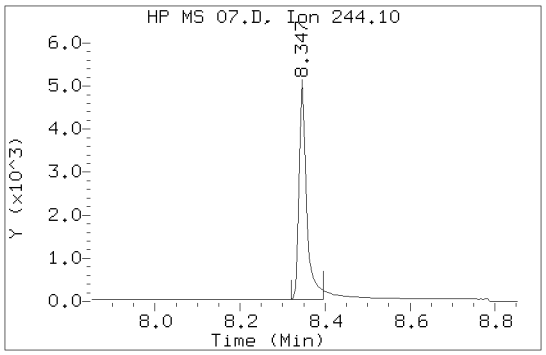
BEFORE

MASS
244.1
AREA
8301
HEIGHT
5148
29-Jun-2023
12:01
ALSHS
Server



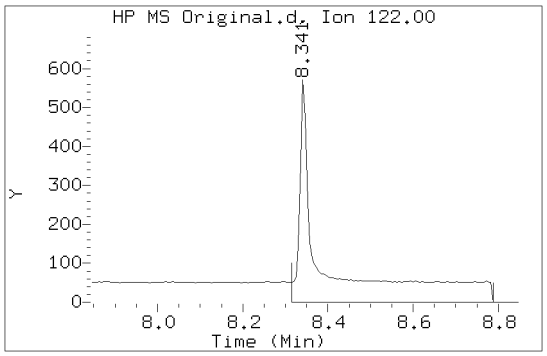
AFTER

MASS
244.1
AREA
6192
HEIGHT
5099
29-Jun-2023
12:10
ALSHS
Se



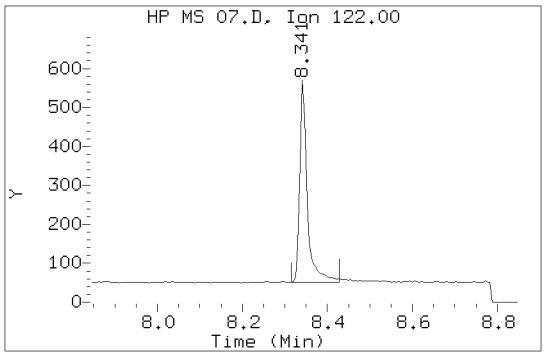
BEFORE

MASS
122
AREA
2131
HEIGHT
571
29-Jun-2023
12:01
ALSHS
Server



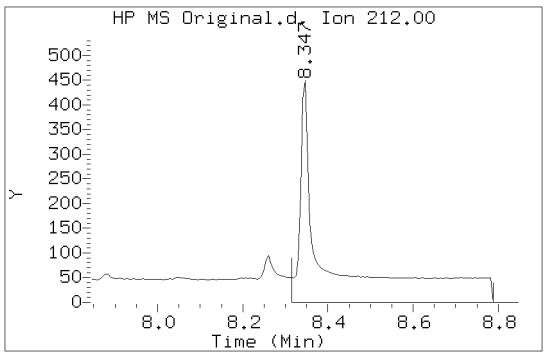
AFTER

MASS
122
AREA
635
HEIGHT
520
29-Jun-2023
12:10
ALSHS
Se



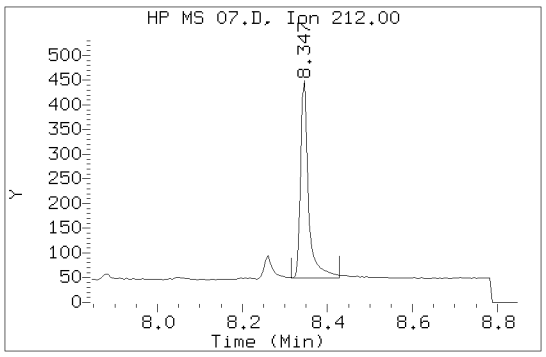
BEFORE

MASS
212
AREA
1923
HEIGHT
449
29-Jun-2023
12:01
ALSHS
Server



AFTER

MASS
212
AREA
516
HEIGHT
400
29-Jun-2023
12:10
ALSHS
Se



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230629.b\08.D
Lab Smp Id: LCSD1-196799 Client Smp ID: LCSD1-196799
Inj Date : 29-JUN-2023 12:01
Operator : LG Inst ID: SV6.i
Smp Info : LCSD1-196799
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230629.b\DXSIM.m
Meth Date : 29-Jun-2023 10:28 jiayi.lu Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 8 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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	2.637	2.637	(1.000)	2392	0.10000	(a)
* 45	Naphthalene-d8	136	3.702	3.702	(1.000)	9109	0.10000	(M)
$ 33	Nitrobenzene-d5	82	3.082	3.082	(0.833)	2463	0.08899	0.08899(M)
* 86	Acenaphthene-d10	164	5.342	5.342	(1.000)	6213	0.10000	(QM)
$ 69	2-Fluorobiphenyl	172	4.726	4.726	(0.885)	5978	0.09409	0.09409(M)
* 126	Phenanthrene-d10	188	6.765	6.765	(1.000)	8673	0.10000	
* 182	Chrysene-d12	240	9.336	9.341	(1.000)	9191	0.10000	(M)
$ 158	4-Terphenyl-d14	244	8.346	8.351	(0.894)	6164	0.09090	0.09090(M)
* 198	Perylene-d12	264	11.039	11.038	(1.000)	5394	0.10000	(M)
1	1,4-Dioxane	58	1.080	1.084	(0.410)	665	0.08194	0.08194(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.

01202071

Data File: \\nahstws005\Target\chem\SV6.i\230629.b\08.D

Date : 29-JUN-2023 12:01

Client ID: LCSD1-196799

Instrument: SV6.i

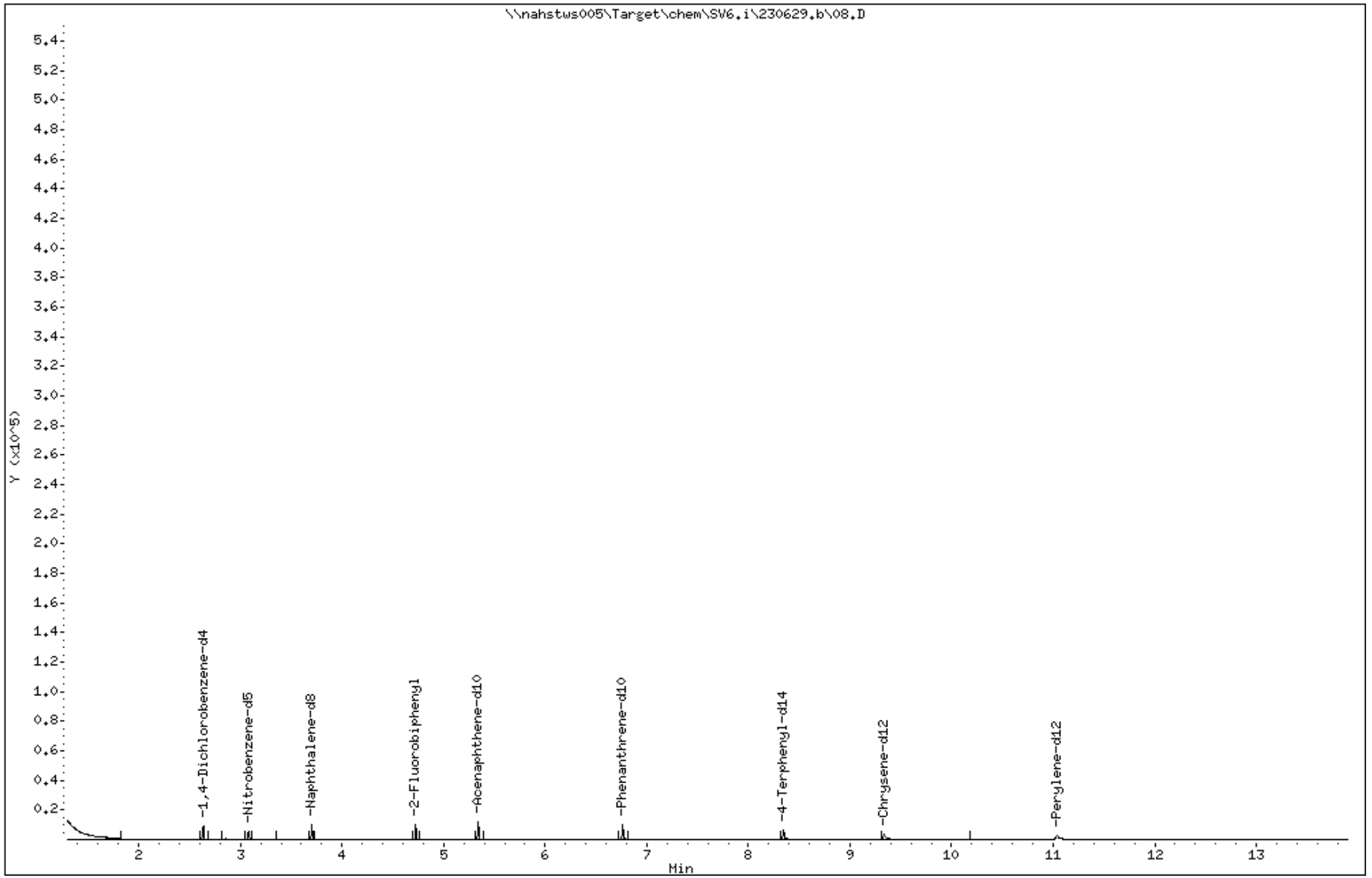
Sample Info: LCSD1-196799

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



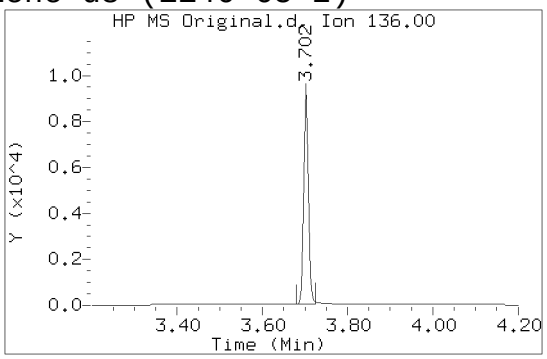
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\08.D
Inj Date : 29-JUN-2023 12:01
InstruID : SV6.i
LabSampID : LCSD1-196799

Naphthalene-d8 (1146-65-2)

Reason Code:

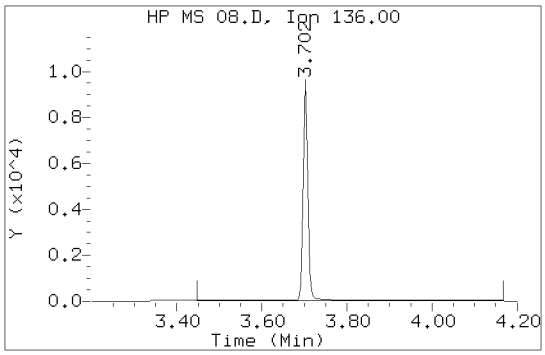
BEFORE

MASS
136
AREA
7394
HEIGHT
9598
29-Jun-2023
12:16
ALSHS
Server



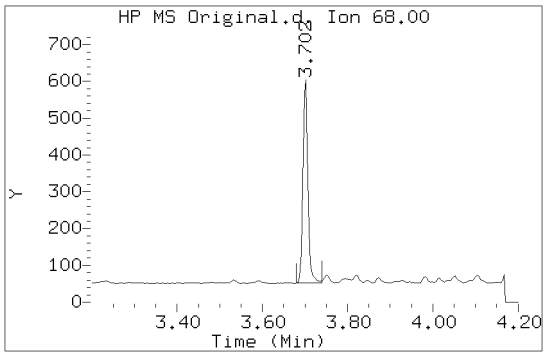
AFTER

MASS
136
AREA
9109
HEIGHT
9632
29-Jun-2023
13:03
ALSHS
Se



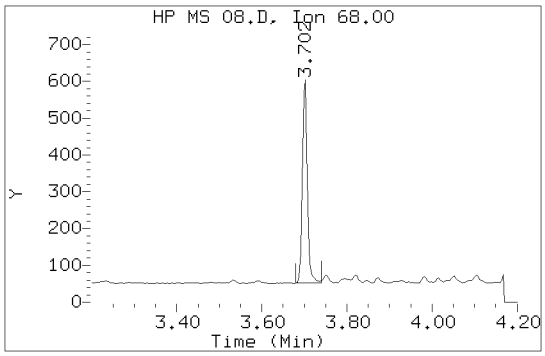
BEFORE

MASS
68
AREA
459
HEIGHT
552
29-Jun-2023
12:16
ALSHS
Server



AFTER

MASS
68
AREA
459
HEIGHT
552
29-Jun-2023
13:03
ALSHS
Se

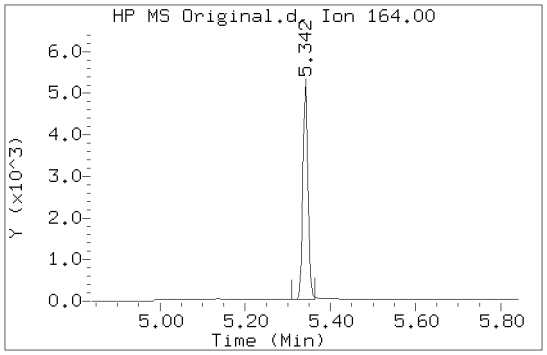


Acenaphthene-d10 (15067-26-2)

Reason Code:

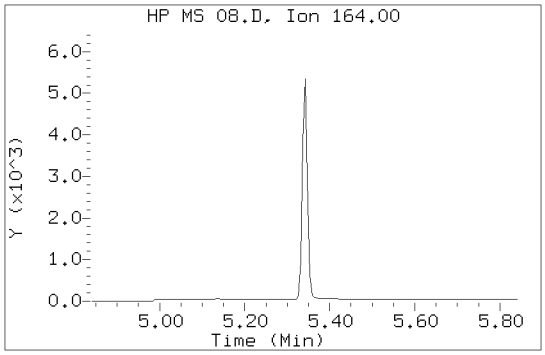
BEFORE

MASS
164
AREA
4387
HEIGHT
5296
29-Jun-2023
12:16
ALSHS
Server



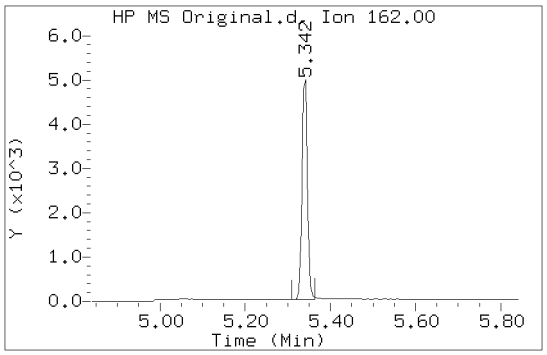
AFTER

MASS
164
AREA
6213
HEIGHT
5325
29-Jun-2023
13:03
ALSHS
Se



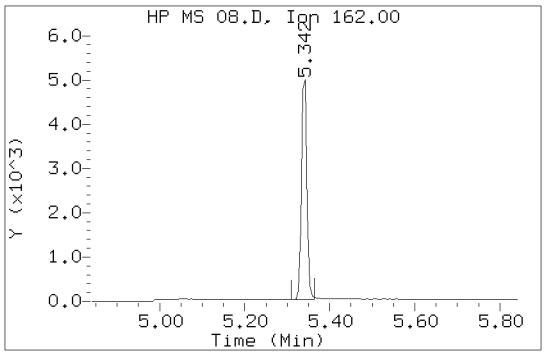
BEFORE

MASS
162
AREA
4465
HEIGHT
4958
29-Jun-2023
12:16
ALSHS
Server



AFTER

MASS
162
AREA
4465
HEIGHT
4958
29-Jun-2023
13:03
ALSHS
Se



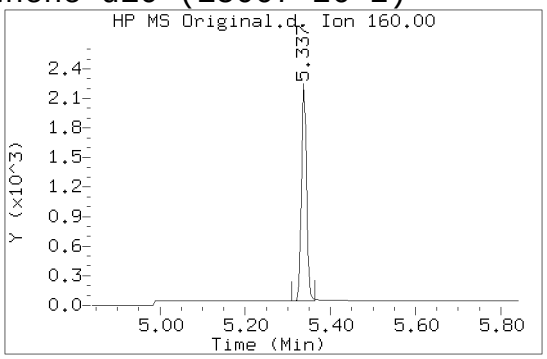
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\08.D
Inj Date : 29-JUN-2023 12:01
InstruID : SV6.i
LabSampID : LCSD1-196799

Acenaphthene-d10 (15067-26-2)

Reason Code:

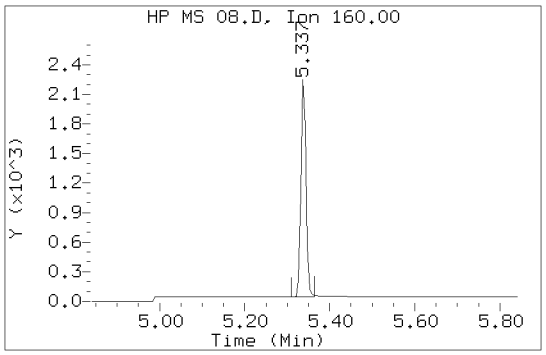
BEFORE

MASS
160
AREA
1860
HEIGHT
2202
29-Jun-2023
12:16
ALSHS
Server



AFTER

MASS
160
AREA
1860
HEIGHT
2202
29-Jun-2023
13:03
ALSHS
Se

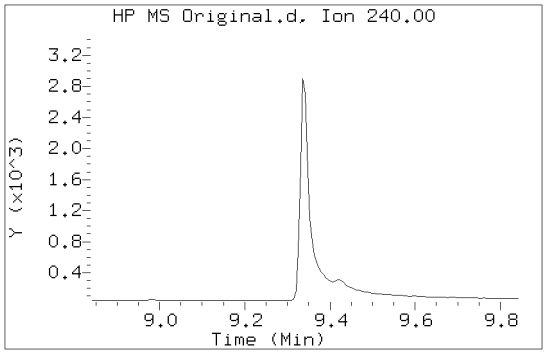


Chrysene-d12 (1719-03-5)

Reason Code:

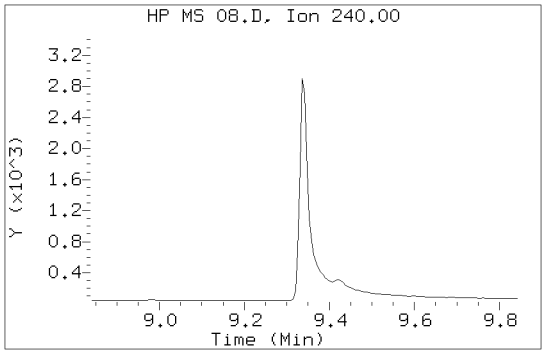
BEFORE

MASS
240
AREA
0
HEIGHT
0
29-Jun-2023
12:16
ALSHS
Server



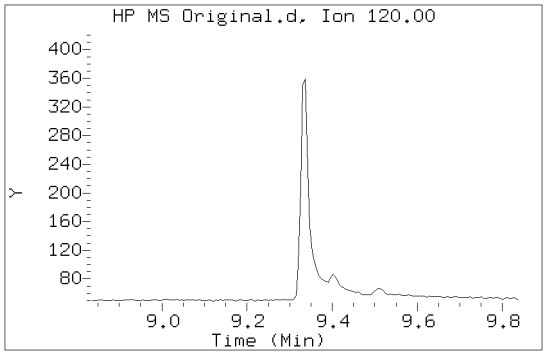
AFTER

MASS
240
AREA
9191
HEIGHT
2884
29-Jun-2023
13:03
ALSHS
Se



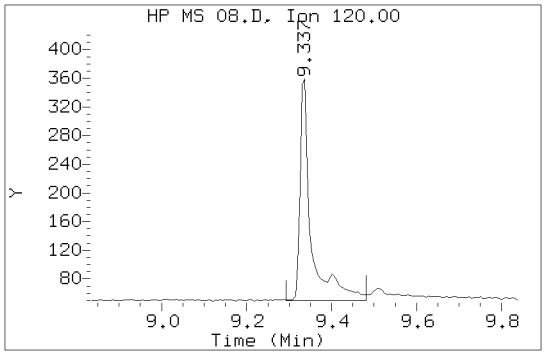
BEFORE

MASS
120
AREA
0
HEIGHT
0
29-Jun-2023
12:16
ALSHS
Server



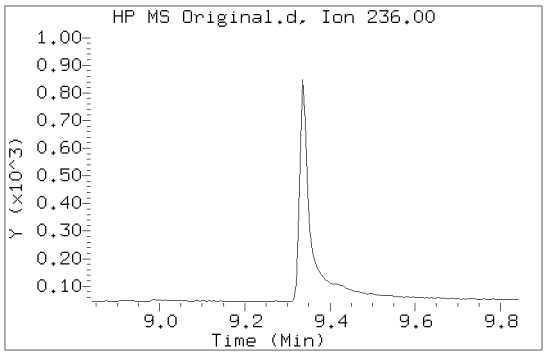
AFTER

MASS
120
AREA
556
HEIGHT
309
29-Jun-2023
13:03
ALSHS
Se



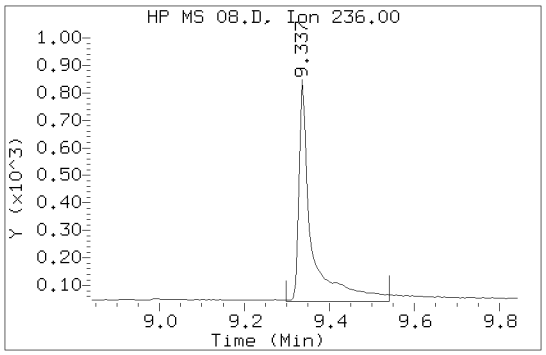
BEFORE

MASS
236
AREA
0
HEIGHT
0
29-Jun-2023
12:16
ALSHS
Server



AFTER

MASS
236
AREA
1649
HEIGHT
806
29-Jun-2023
13:03
ALSHS
Se



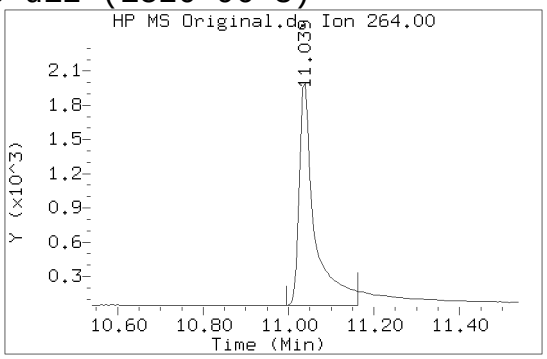
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\08.D
Inj Date : 29-JUN-2023 12:01
InstruID : SV6.i
LabSampID : LCSD1-196799

Perylene-d12 (1520-96-3)

Reason Code:

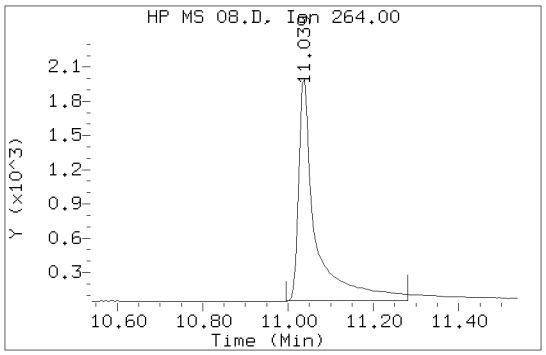
BEFORE

MASS
264
AREA
4871
HEIGHT
1941
29-Jun-2023
12:16
ALSHS
Server



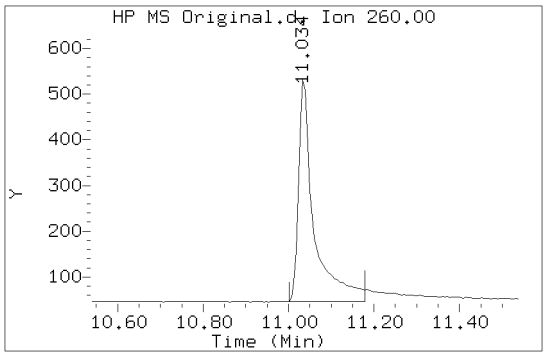
AFTER

MASS
264
AREA
5394
HEIGHT
1937
29-Jun-2023
13:03
ALSHS
Se



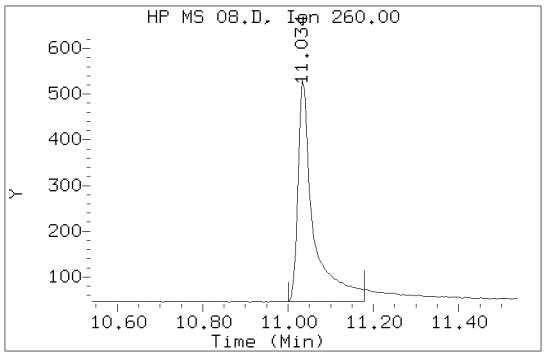
BEFORE

MASS
260
AREA
1208
HEIGHT
484
29-Jun-2023
12:16
ALSHS
Server



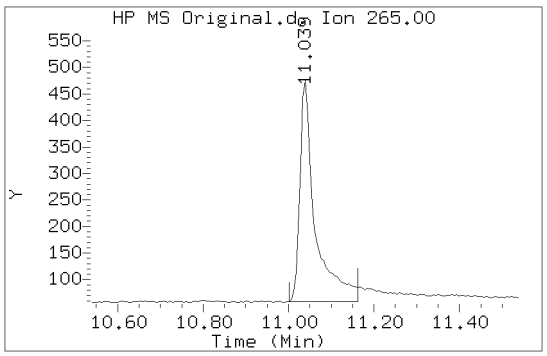
AFTER

MASS
260
AREA
1208
HEIGHT
484
29-Jun-2023
13:03
ALSHS
Se



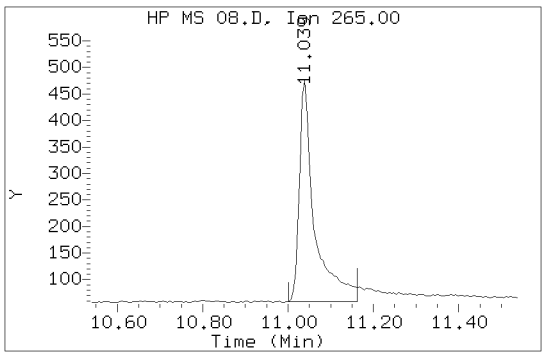
BEFORE

MASS
265
AREA
1033
HEIGHT
417
29-Jun-2023
12:16
ALSHS
Server



AFTER

MASS
265
AREA
1033
HEIGHT
417
29-Jun-2023
13:03
ALSHS
Se

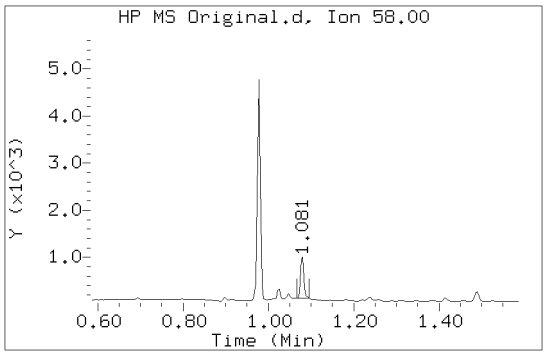


1,4-Dioxane ()

Reason Code:

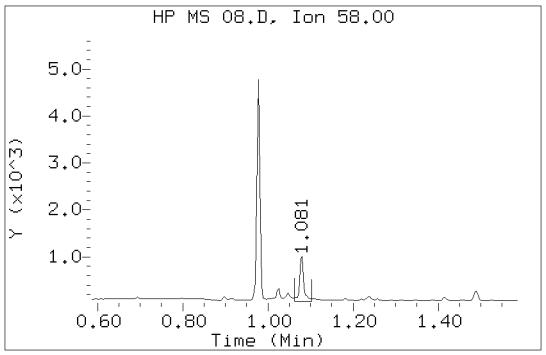
BEFORE

MASS
58
AREA
475
HEIGHT
875
29-Jun-2023
12:16
ALSHS
Server



AFTER

MASS
58
AREA
665
HEIGHT
950
29-Jun-2023
13:03
ALSHS
Se

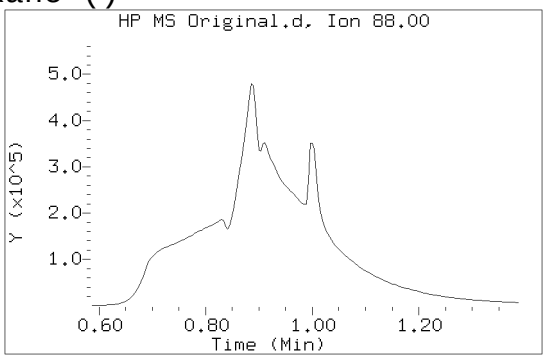


Data File : \\nahstws005\Target\chem\SV6.i\230629.b\08.D
Inj Date : 29-JUN-2023 12:01
InstruID : SV6.i
LabSampID : LCSD1-196799

1,4-Dioxane ()

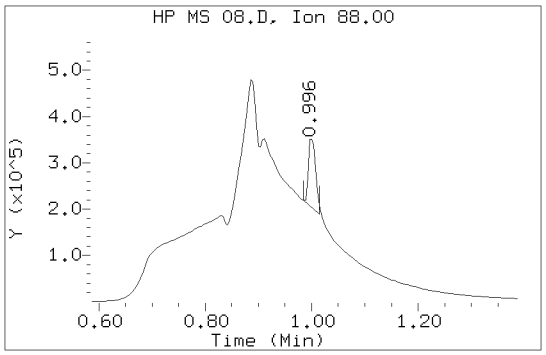
Reason Code:

BEFORE



MASS
88
AREA
1584203
HEIGHT
350038
29-Jun-2023
12:16
ALSHS
Server

AFTER

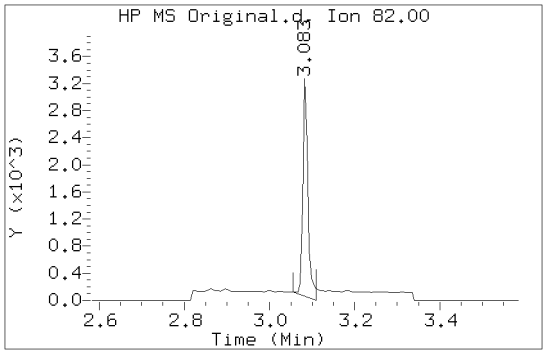


MASS
88
AREA
141943
HEIGHT
142939
29-Jun-2023
13:03
ALSHS
Se

Nitrobenzene-d5 (4165-60-0)

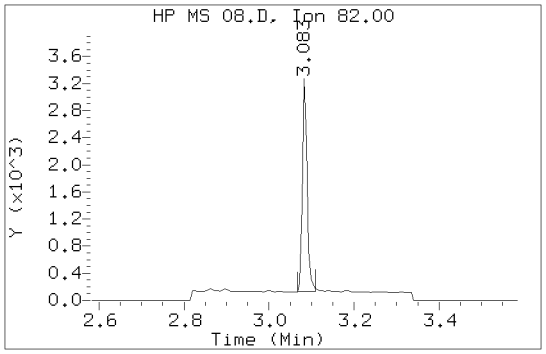
Reason Code:

BEFORE



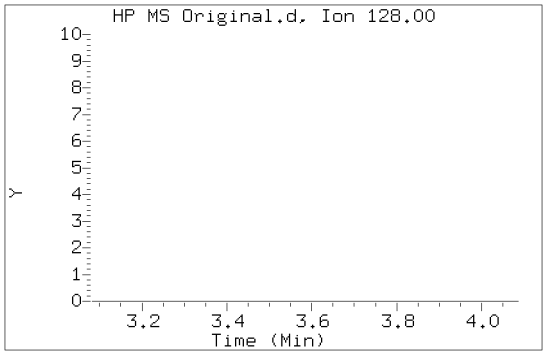
MASS
82
AREA
2697
HEIGHT
3209
29-Jun-2023
12:16
ALSHS
Server

AFTER



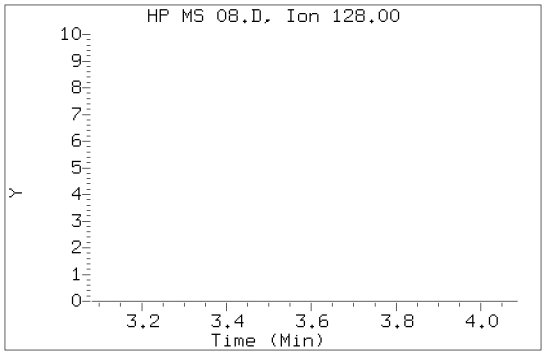
MASS
82
AREA
2463
HEIGHT
3142
29-Jun-2023
13:03
ALSHS
Se

BEFORE



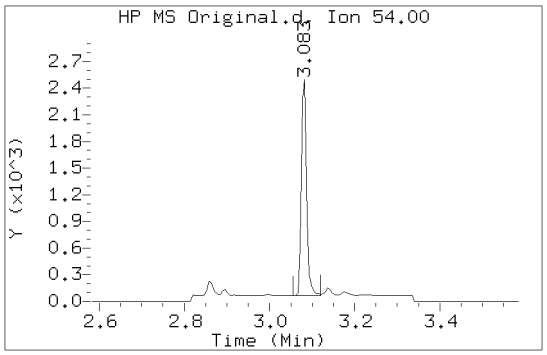
MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
12:16
ALSHS
Server

AFTER



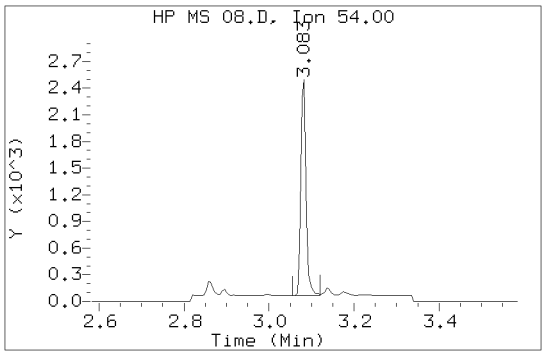
MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
13:03
ALSHS
Se

BEFORE



MASS
54
AREA
2111
HEIGHT
2432
29-Jun-2023
12:16
ALSHS
Server

AFTER



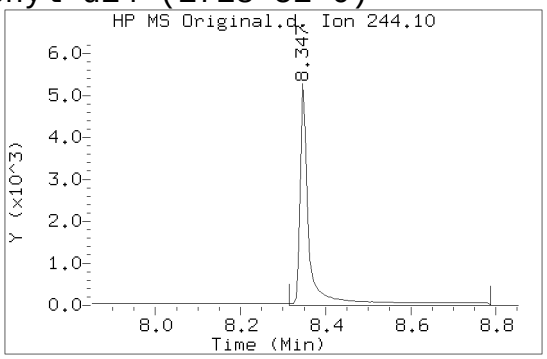
MASS
54
AREA
2111
HEIGHT
2432
29-Jun-2023
13:03
ALSHS
Se

Data File : \\nahstws005\Target\chem\SV6.i\230629.b\08.D
Inj Date : 29-JUN-2023 12:01
InstruID : SV6.i
LabSampID : LCSD1-196799

4-Terphenyl-d14 (1718-51-0)

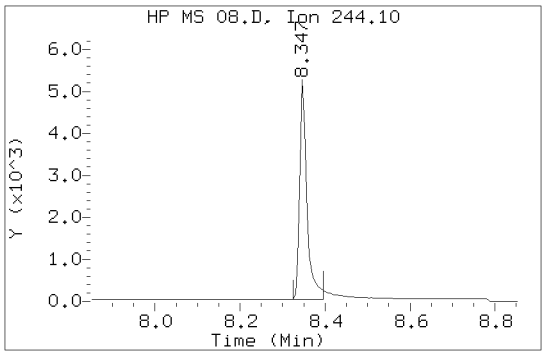
Reason Code:

BEFORE



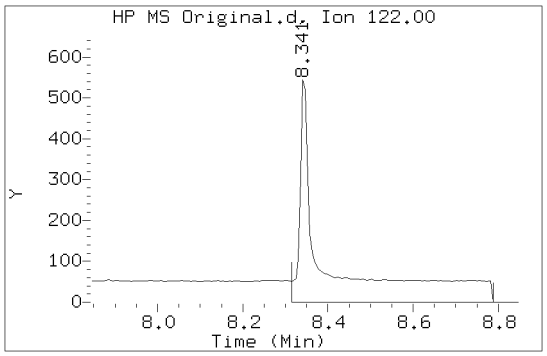
MASS
244.1
AREA
8259
HEIGHT
5280
29-Jun-2023
12:16
ALSHS
Server

AFTER



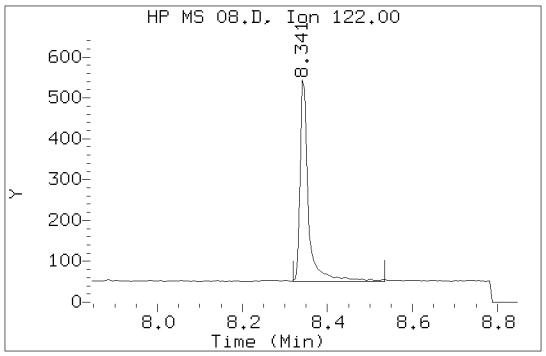
MASS
244.1
AREA
6164
HEIGHT
5238
29-Jun-2023
13:03
ALSHS
Se

BEFORE



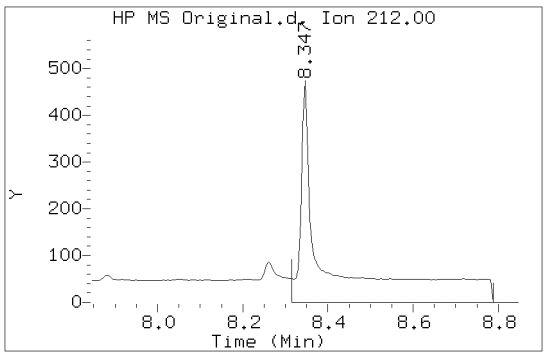
MASS
122
AREA
2142
HEIGHT
544
29-Jun-2023
12:16
ALSHS
Server

AFTER



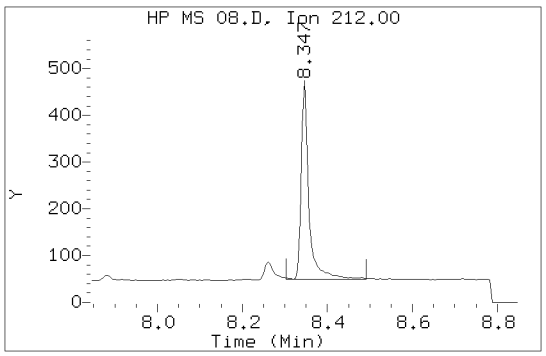
MASS
122
AREA
669
HEIGHT
493
29-Jun-2023
13:03
ALSHS
Se

BEFORE



MASS
212
AREA
1926
HEIGHT
474
29-Jun-2023
12:16
ALSHS
Server

AFTER

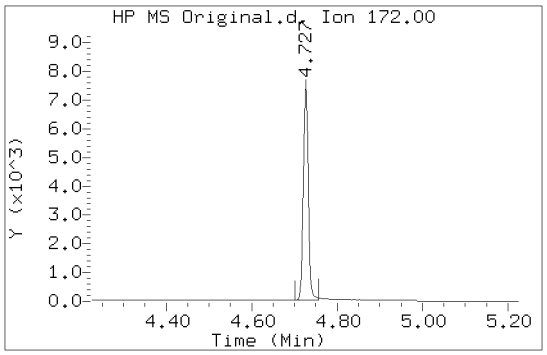


MASS
212
AREA
529
HEIGHT
425
29-Jun-2023
13:03
ALSHS
Se

2-Fluorobiphenyl (321-60-8)

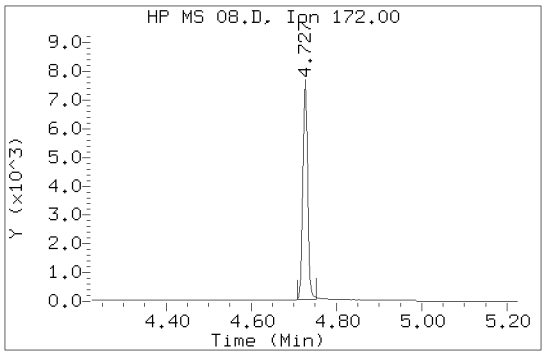
Reason Code:

BEFORE



MASS
172
AREA
6060
HEIGHT
7663
29-Jun-2023
12:16
ALSHS
Server

AFTER



MASS
172
AREA
5978
HEIGHT
7641
29-Jun-2023
13:03
ALSHS
Se

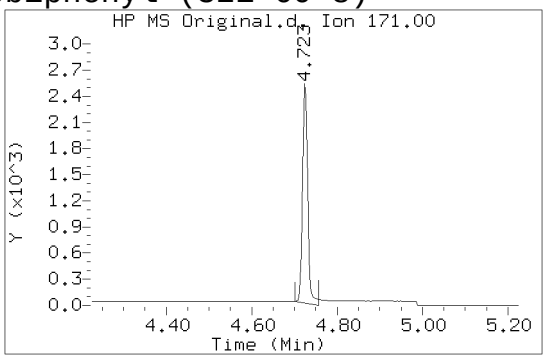
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\08.D
Inj Date : 29-JUN-2023 12:01
InstruID : SV6.i
LabSampID : LCSD1-196799

2-Fluorobiphenyl (321-60-8)

Reason Code:

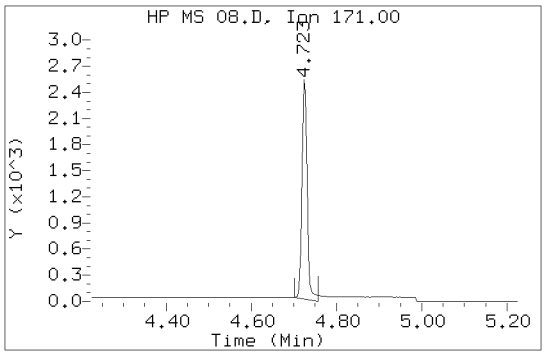
BEFORE

MASS
171
AREA
2125
HEIGHT
2518
29-Jun-2023
12:16
ALSHS
Server



AFTER

MASS
171
AREA
2125
HEIGHT
2518
29-Jun-2023
13:03
ALSHS
Se



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230629.b\16.D
Lab Smp Id: HS23061712-02 Client Smp ID: HS23061712-02
Inj Date : 29-JUN-2023 14:27
Operator : LG Inst ID: SV6.i
Smp Info : HS23061712-02
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230629.b\DXSIM.m
Meth Date : 29-Jun-2023 10:28 jiayi.lu Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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	2.642	2.637	(1.000)	3641	0.10000	(aM)
* 45 Naphthalene-d8	136	3.702	3.702	(1.000)	11020	0.10000	
$ 33 Nitrobenzene-d5	82	3.088	3.082	(0.834)	2941	0.08784	0.08784(M)
* 86 Acenaphthene-d10	164	5.342	5.342	(1.000)	7828	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.885)	7073	0.08836	0.08836
* 126 Phenanthrene-d10	188	6.759	6.765	(1.000)	12980	0.10000	
* 182 Chrysene-d12	240	9.336	9.341	(1.000)	11386	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.346	8.351	(0.894)	7614	0.09064	0.09064(M)
* 198 Perylene-d12	264	11.033	11.038	(1.000)	8516	0.10000	
1 1,4-Dioxane	58	1.088	1.084	(0.412)	461	0.03732	0.03732(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01202079

Data File: \\nahstws005\Target\chem\SV6.i\230629.b\16.D

Date : 29-JUN-2023 14:27

Client ID: HS23061712-02

Instrument: SV6.i

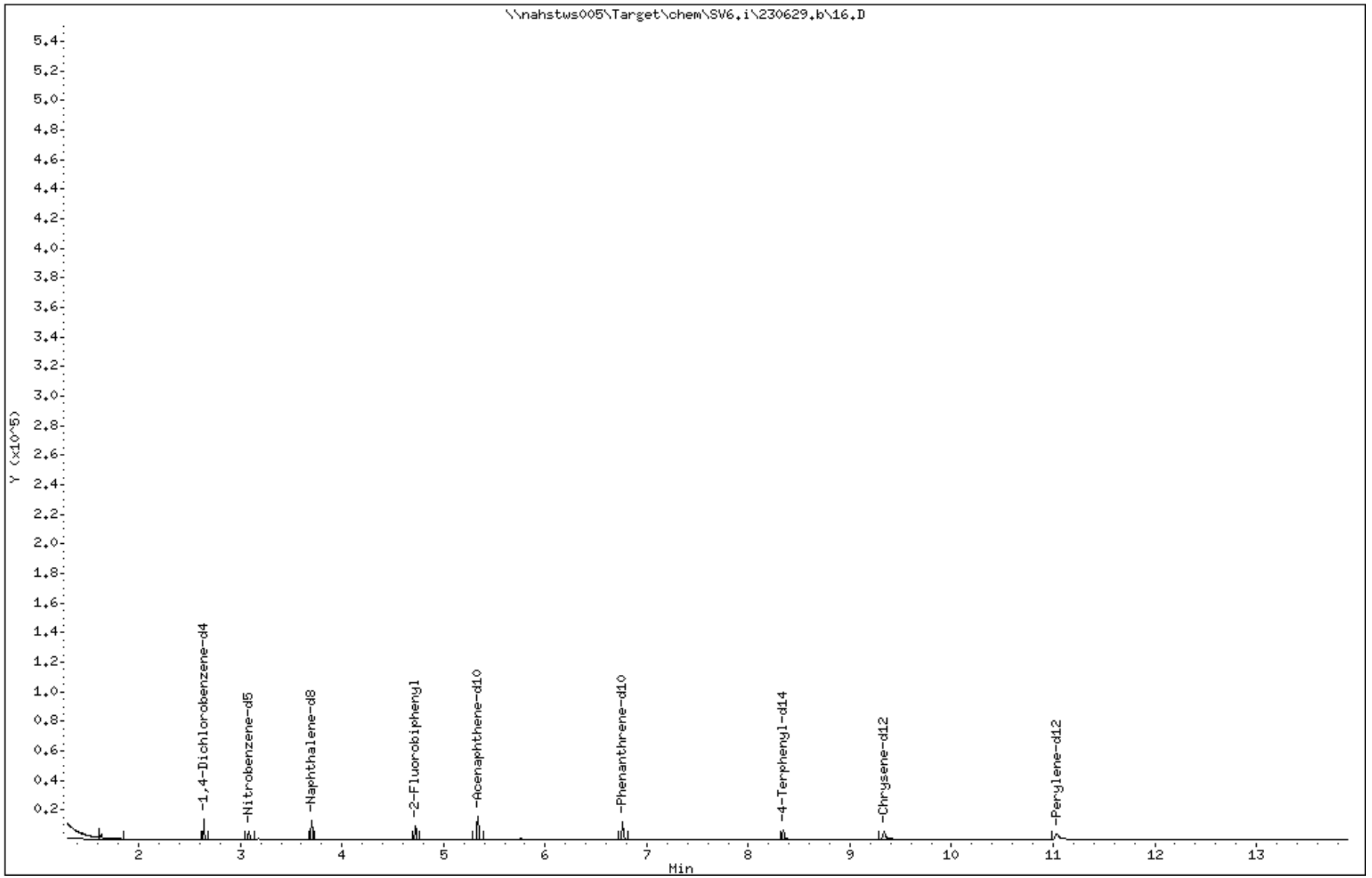
Sample Info: HS23061712-02

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\nahstws005\Target\chem\SV6.i\230629.b\16.D

Date : 29-JUN-2023 14:27

Client ID: HS23061712-02

Instrument: SV6.i

Sample Info: HS23061712-02

Purge Volume: 1000.0

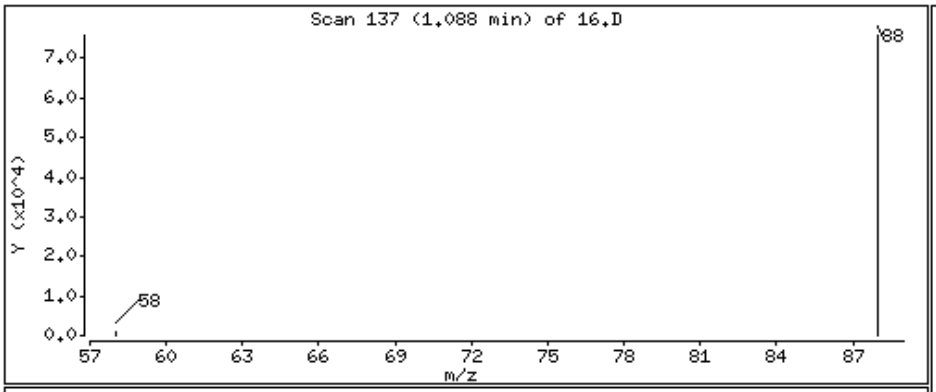
Operator: LG

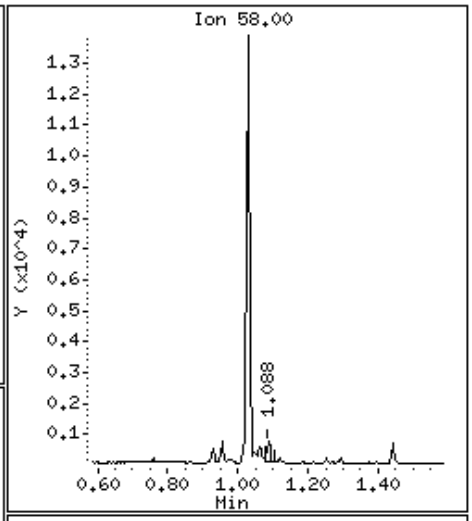
Column phase: RTX-5SIL MS

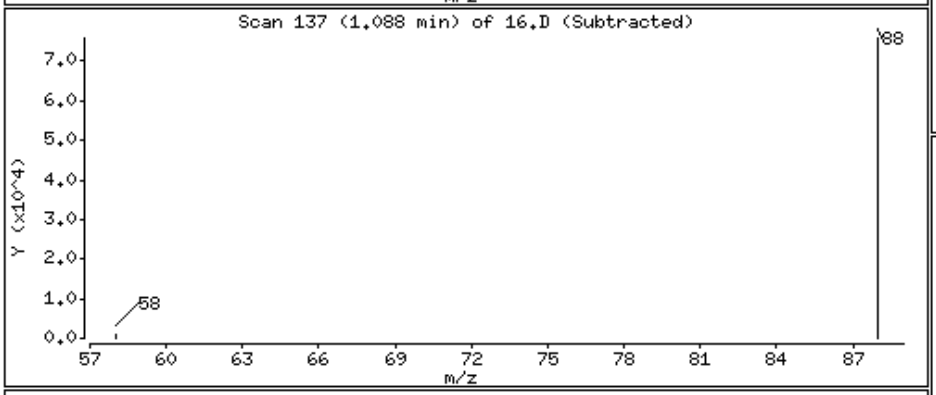
Column diameter: 0.28

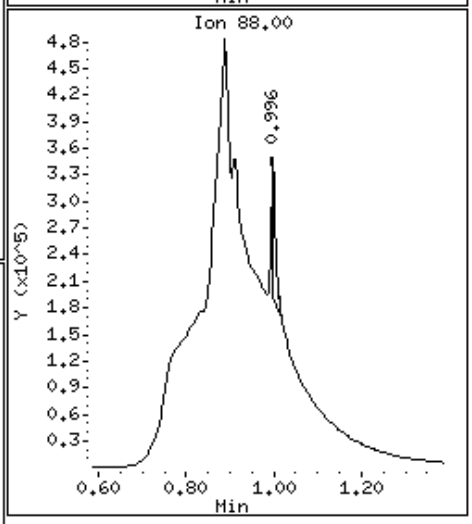
1 1,4-Dioxane

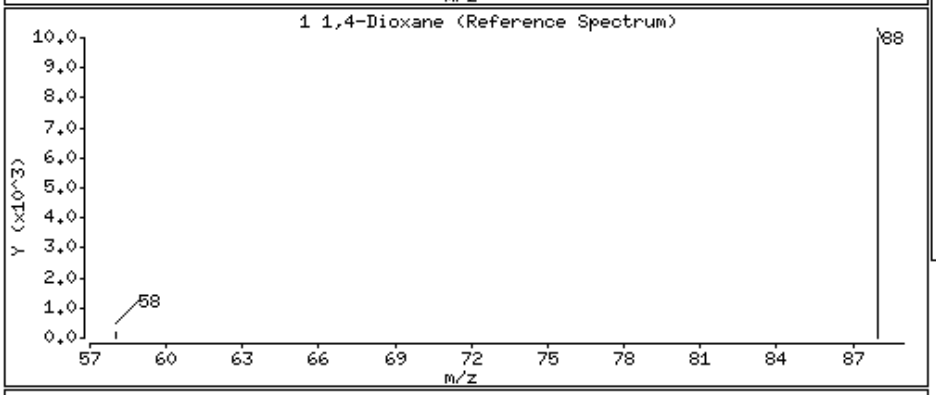
Concentration: 0.03732 ug/L

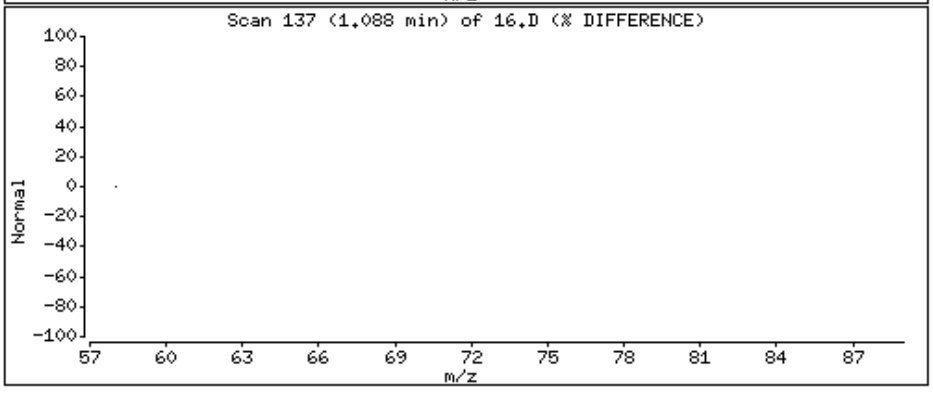












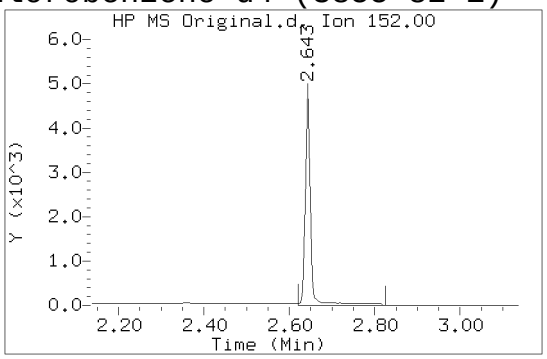
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\16.D
Inj Date : 29-JUN-2023 14:27
InstruID : SV6.i
LabSampID : HS23061712-02

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

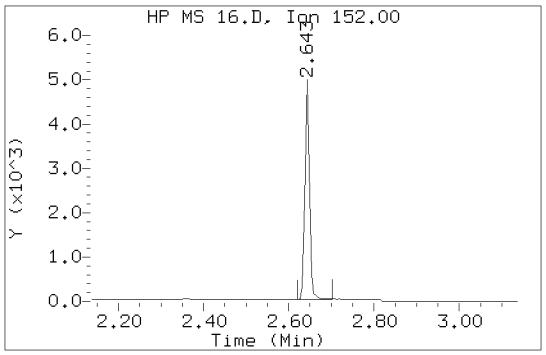
BEFORE

MASS
152
AREA
4207
HEIGHT
5004
29-Jun-2023
14:41
ALSHS
Server



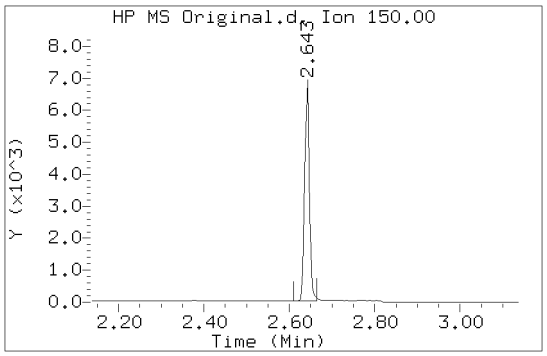
AFTER

MASS
152
AREA
3641
HEIGHT
4959
29-Jun-2023
16:24
ALSHS
Se



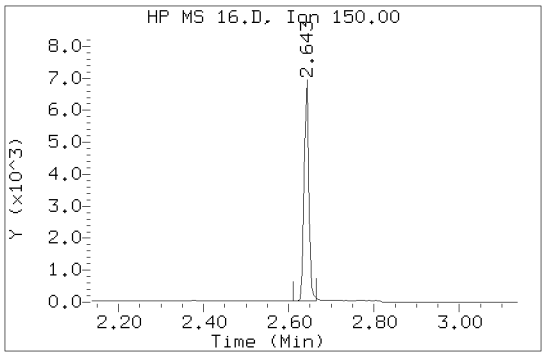
BEFORE

MASS
150
AREA
5169
HEIGHT
6902
29-Jun-2023
14:41
ALSHS
Server



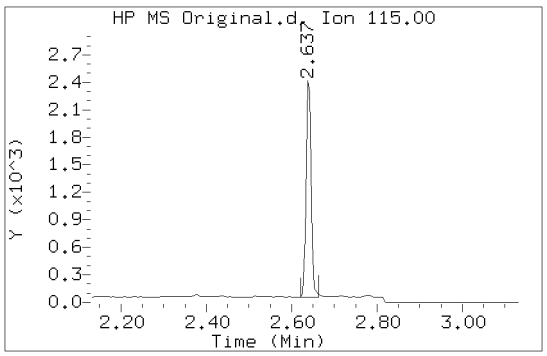
AFTER

MASS
150
AREA
5169
HEIGHT
6902
29-Jun-2023
16:24
ALSHS
Se



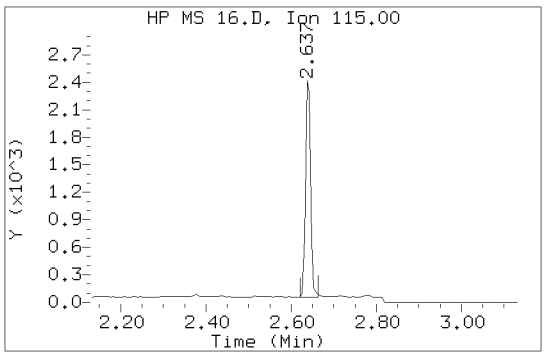
BEFORE

MASS
115
AREA
1954
HEIGHT
2360
29-Jun-2023
14:41
ALSHS
Server



AFTER

MASS
115
AREA
1954
HEIGHT
2360
29-Jun-2023
16:24
ALSHS
Se

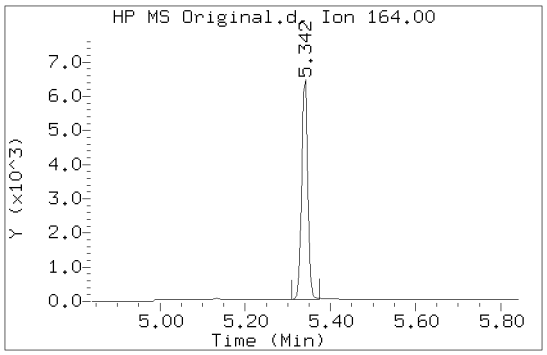


Acenaphthene-d10 (15067-26-2)

Reason Code:

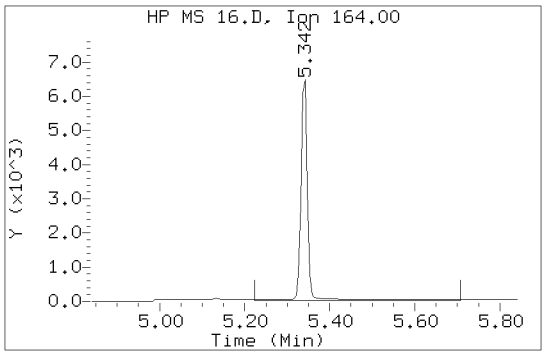
BEFORE

MASS
164
AREA
6511
HEIGHT
6424
29-Jun-2023
14:41
ALSHS
Server



AFTER

MASS
164
AREA
7828
HEIGHT
6472
29-Jun-2023
16:24
ALSHS
Se



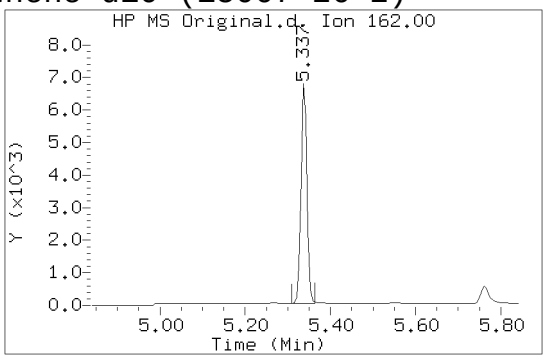
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\16.D
Inj Date : 29-JUN-2023 14:27
InstruID : SV6.i
LabSampID : HS23061712-02

Acenaphthene-d10 (15067-26-2)

Reason Code:

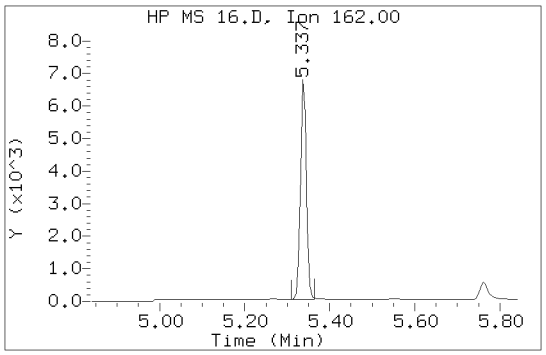
BEFORE

MASS
162
AREA
6598
HEIGHT
6752
29-Jun-2023
14:41
ALSHS
Server



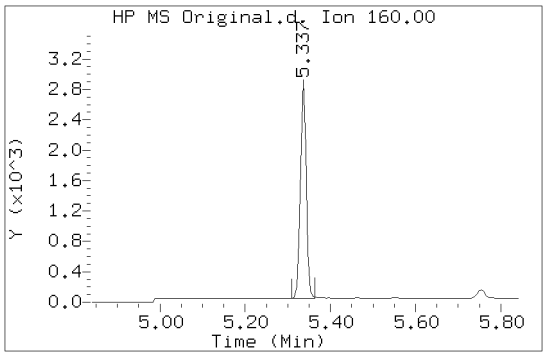
AFTER

MASS
162
AREA
6598
HEIGHT
6752
29-Jun-2023
16:24
ALSHS
Se



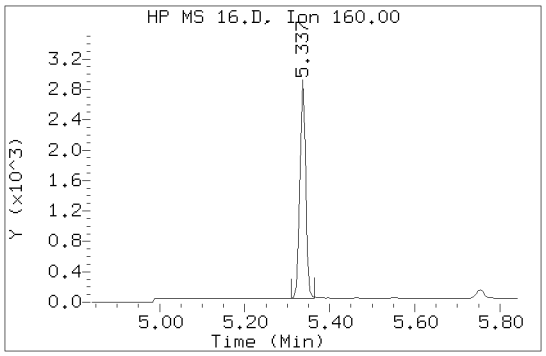
BEFORE

MASS
160
AREA
2764
HEIGHT
2876
29-Jun-2023
14:41
ALSHS
Server



AFTER

MASS
160
AREA
2764
HEIGHT
2876
29-Jun-2023
16:24
ALSHS
Se

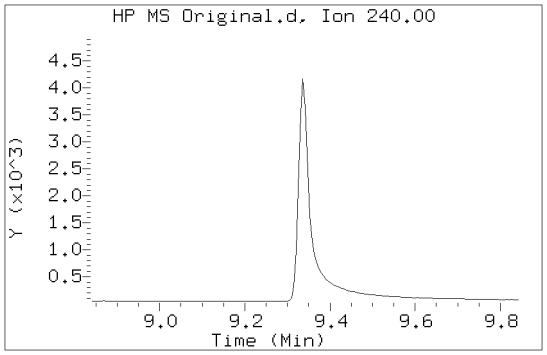


Chrysene-d12 (1719-03-5)

Reason Code:

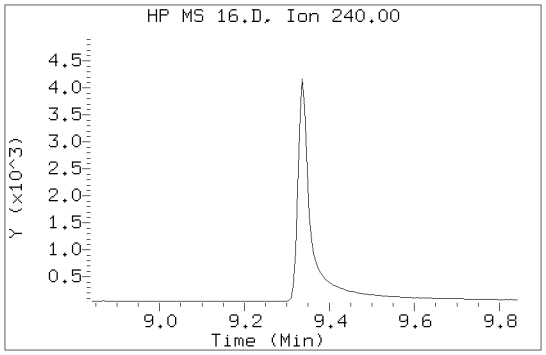
BEFORE

MASS
240
AREA
0
HEIGHT
0
29-Jun-2023
14:41
ALSHS
Server



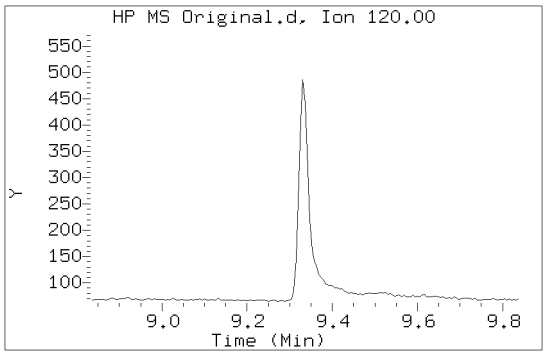
AFTER

MASS
240
AREA
11386
HEIGHT
4142
29-Jun-2023
16:24
ALSHS
Se



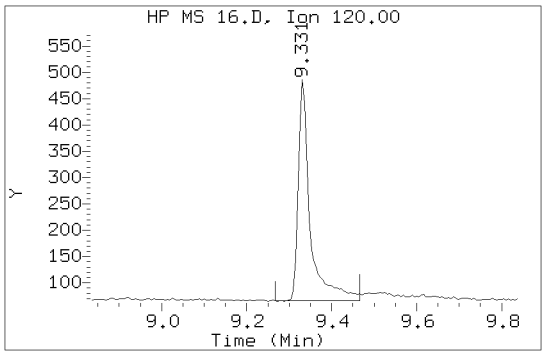
BEFORE

MASS
120
AREA
0
HEIGHT
0
29-Jun-2023
14:41
ALSHS
Server



AFTER

MASS
120
AREA
818
HEIGHT
420
29-Jun-2023
16:24
ALSHS
Se

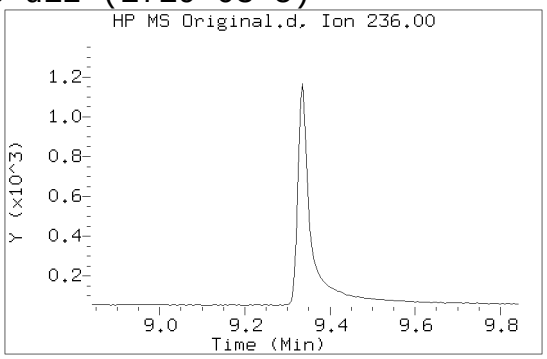


Data File : \\nahstws005\Target\chem\SV6.i\230629.b\16.D
Inj Date : 29-JUN-2023 14:27
InstruID : SV6.i
LabSampID : HS23061712-02

Chrysene-d12 (1719-03-5)

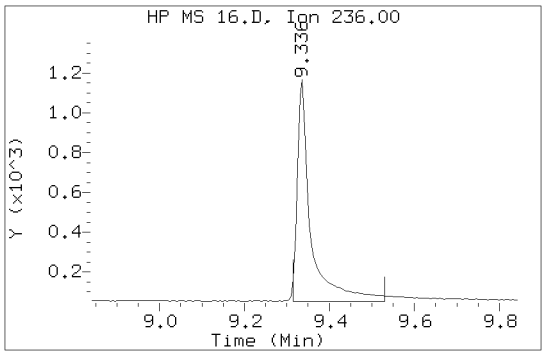
Reason Code:

BEFORE



MASS
236
AREA
0
HEIGHT
0
29-Jun-2023
14:41
ALSHS
Server

AFTER

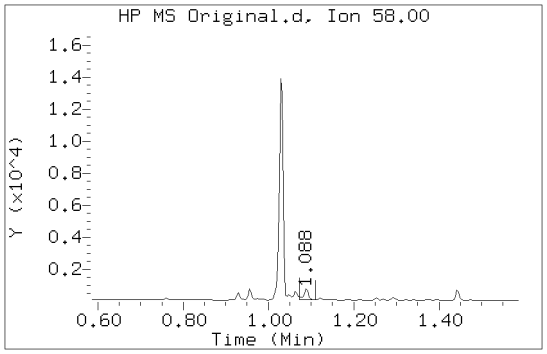


MASS
236
AREA
2453
HEIGHT
1115
29-Jun-2023
16:24
ALSHS
Se

1,4-Dioxane ()

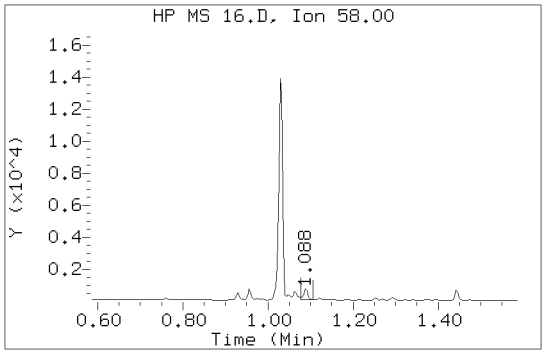
Reason Code:

BEFORE



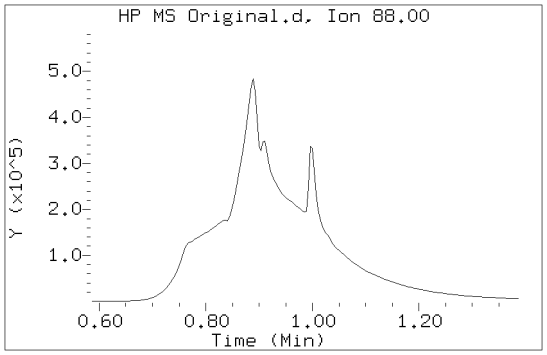
MASS
58
AREA
514
HEIGHT
700
29-Jun-2023
14:41
ALSHS
Server

AFTER



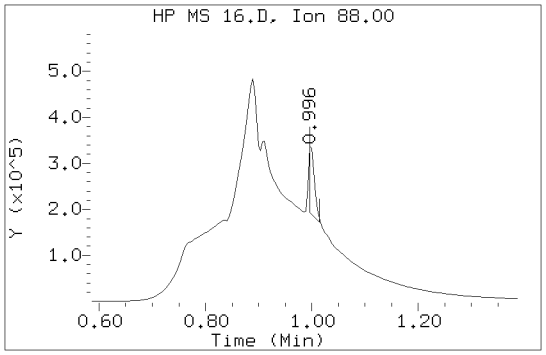
MASS
58
AREA
461
HEIGHT
692
29-Jun-2023
16:24
ALSHS
Se

BEFORE



MASS
88
AREA
1418056
HEIGHT
335511
29-Jun-2023
14:41
ALSHS
Server

AFTER

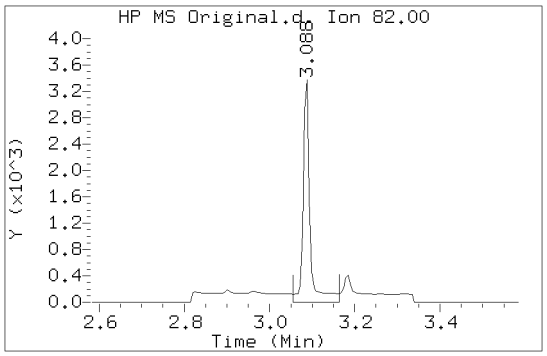


MASS
88
AREA
104071
HEIGHT
143815
29-Jun-2023
16:24
ALSHS
Se

Nitrobenzene-d5 (4165-60-0)

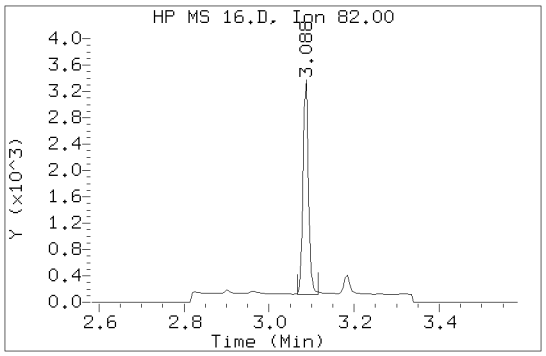
Reason Code:

BEFORE



MASS
82
AREA
3799
HEIGHT
3374
29-Jun-2023
14:41
ALSHS
Server

AFTER



MASS
82
AREA
2941
HEIGHT
3254
29-Jun-2023
16:24
ALSHS
Se

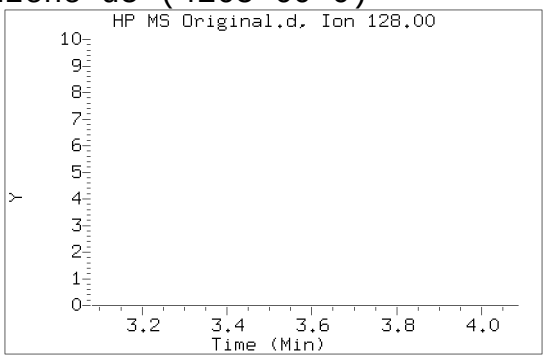
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\16.D
Inj Date : 29-JUN-2023 14:27
InstruID : SV6.i
LabSampID : HS23061712-02

Nitrobenzene-d5 (4165-60-0)

Reason Code:

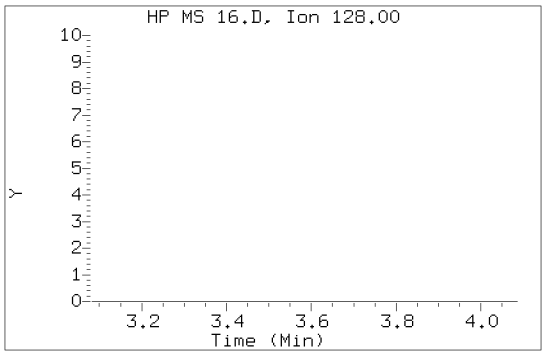
BEFORE

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:41
ALSHS
Server



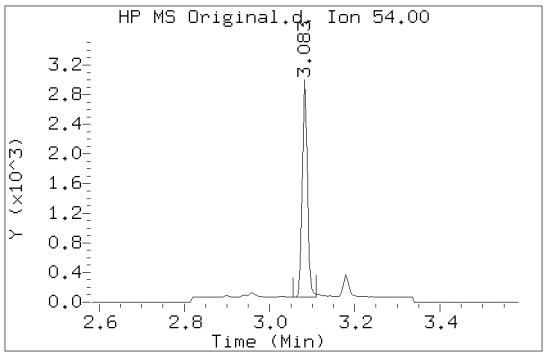
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
16:24
ALSHS
Se



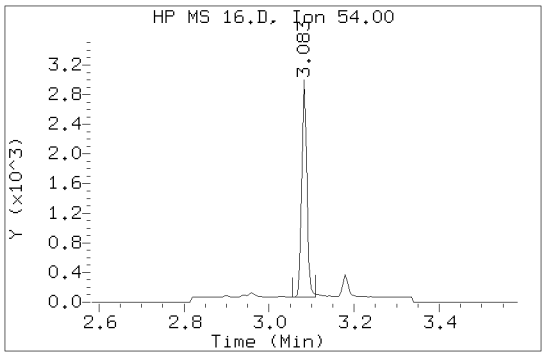
BEFORE

MASS
54
AREA
2504
HEIGHT
2929
29-Jun-2023
14:41
ALSHS
Server



AFTER

MASS
54
AREA
2504
HEIGHT
2929
29-Jun-2023
16:24
ALSHS
Se

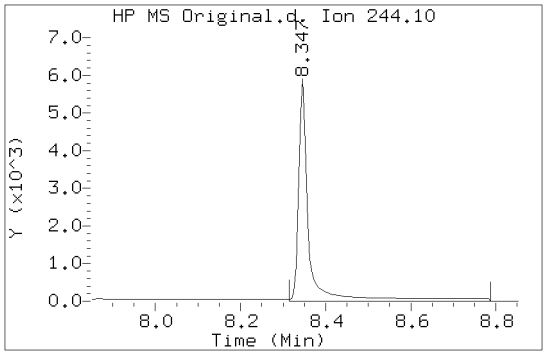


4-Terphenyl-d14 (1718-51-0)

Reason Code:

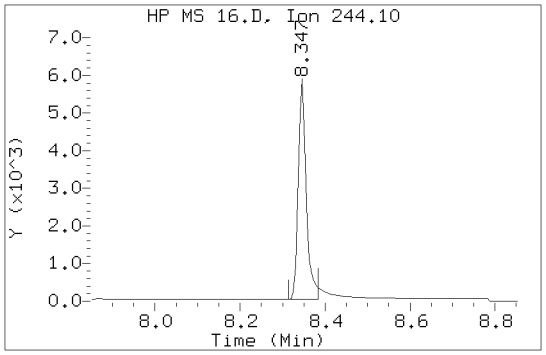
BEFORE

MASS
244.1
AREA
10124
HEIGHT
5909
29-Jun-2023
14:41
ALSHS
Server



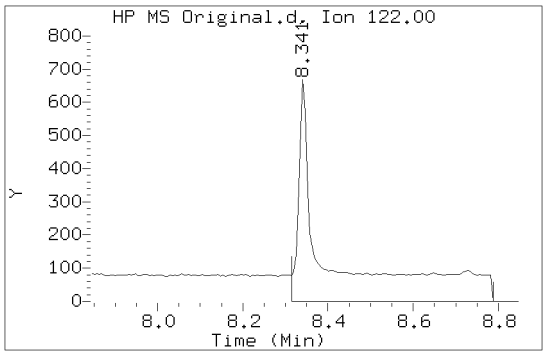
AFTER

MASS
244.1
AREA
7614
HEIGHT
5852
29-Jun-2023
16:24
ALSHS
Se



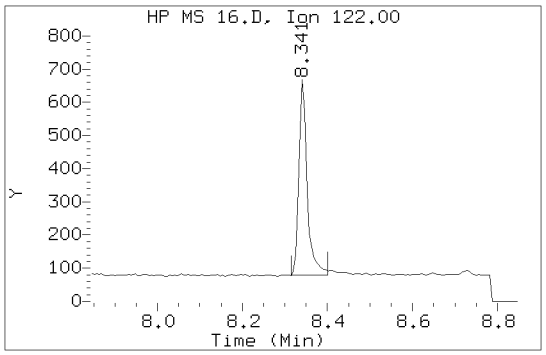
BEFORE

MASS
122
AREA
3127
HEIGHT
668
29-Jun-2023
14:41
ALSHS
Server



AFTER

MASS
122
AREA
793
HEIGHT
589
29-Jun-2023
16:24
ALSHS
Se



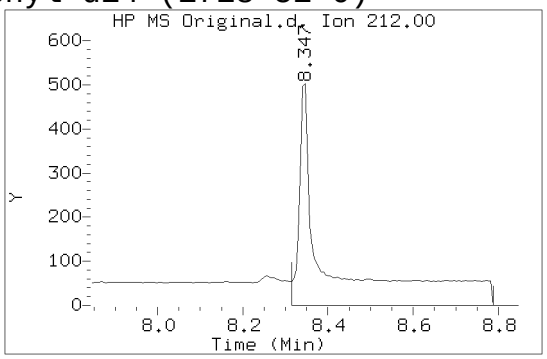
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\16.D
Inj Date : 29-JUN-2023 14:27
InstruID : SV6.i
LabSampID : HS23061712-02

4-Terphenyl-d14 (1718-51-0)

Reason Code:

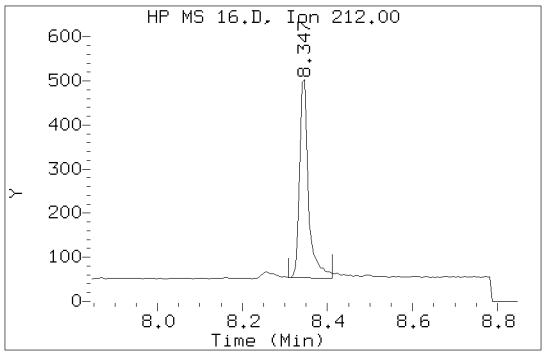
BEFORE

MASS
212
AREA
2231
HEIGHT
503
29-Jun-2023
14:41
ALSHS
Server



AFTER

MASS
212
AREA
650
HEIGHT
449
29-Jun-2023
16:24
ALSHS
Se



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230629.b\17.D
Lab Smp Id: HS23061712-05 Client Smp ID: HS23061712-05
Inj Date : 29-JUN-2023 14:45
Operator : LG Inst ID: SV6.i
Smp Info : HS23061712-05
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230629.b\DXSIM.m
Meth Date : 29-Jun-2023 10:28 jiayi.lu Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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	2.637	2.637	(1.000)	2805	0.10000		(a)
* 45 Naphthalene-d8	136	3.702	3.702	(1.000)	8596	0.10000		
$ 33 Nitrobenzene-d5	82	3.082	3.082	(0.833)	2341	0.08963	0.08963	
* 86 Acenaphthene-d10	164	5.342	5.342	(1.000)	5943	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.885)	5357	0.08815	0.08815	
* 126 Phenanthrene-d10	188	6.765	6.765	(1.000)	10055	0.10000		
* 182 Chrysene-d12	240	9.341	9.341	(1.000)	9989	0.10000		(M)
$ 158 4-Terphenyl-d14	244	8.346	8.351	(0.893)	6163	0.08363	0.08363	(M)
* 198 Perylene-d12	264	11.039	11.038	(1.000)	6300	0.10000		
1 1,4-Dioxane	58	1.091	1.084	(0.414)	421	0.04424	0.04424	(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01202087

Data File: \\nahstws005\Target\chem\SV6.i\230629.b\17.D

Date : 29-JUN-2023 14:45

Client ID: HS23061712-05

Instrument: SV6.i

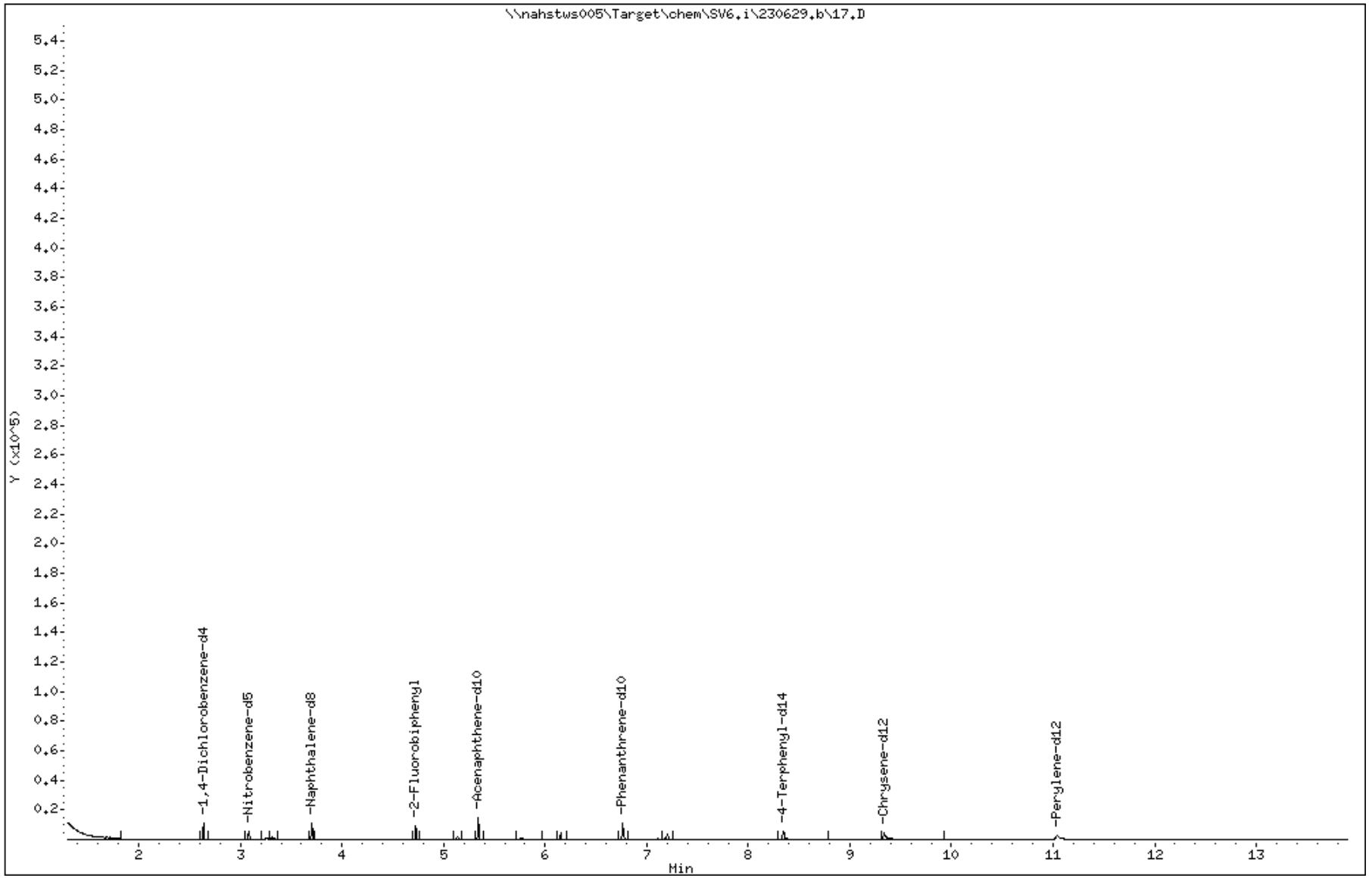
Sample Info: HS23061712-05

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\nahstws005\Target\chem\SV6.i\230629.b\17.D

Date : 29-JUN-2023 14:45

Client ID: HS23061712-05

Instrument: SV6.i

Sample Info: HS23061712-05

Purge Volume: 1000.0

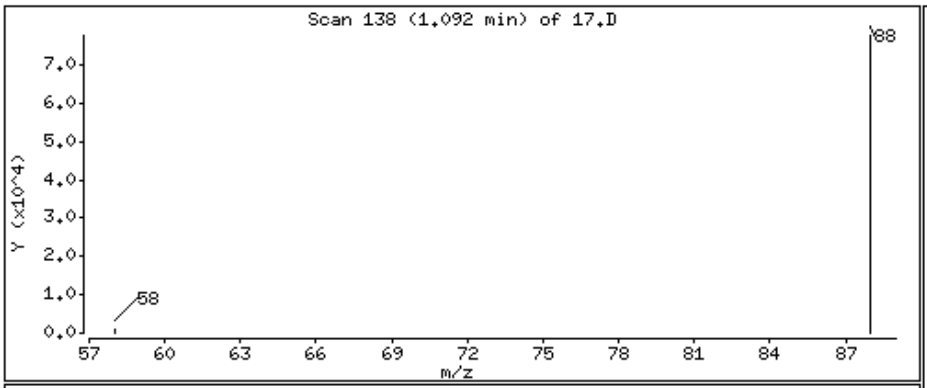
Operator: LG

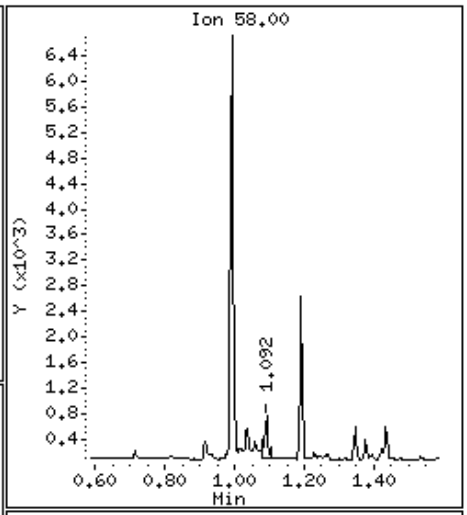
Column phase: RTX-5SIL MS

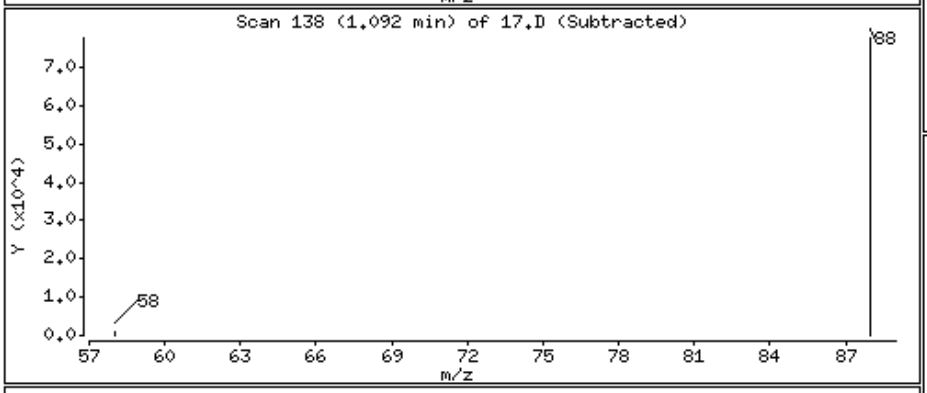
Column diameter: 0.28

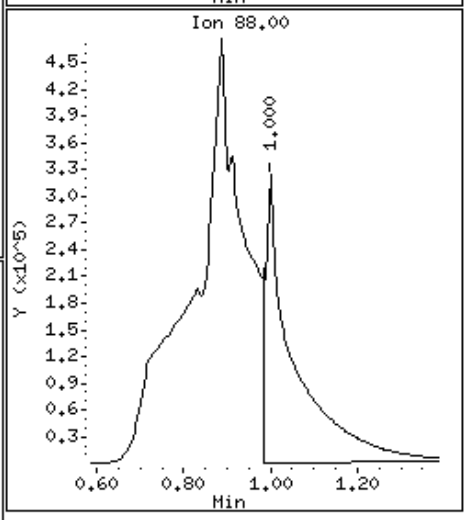
1 1,4-Dioxane

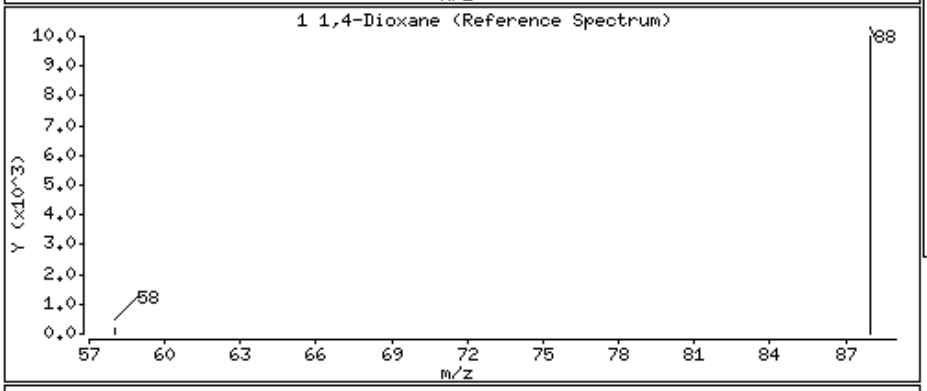
Concentration: 0.04424 ug/L

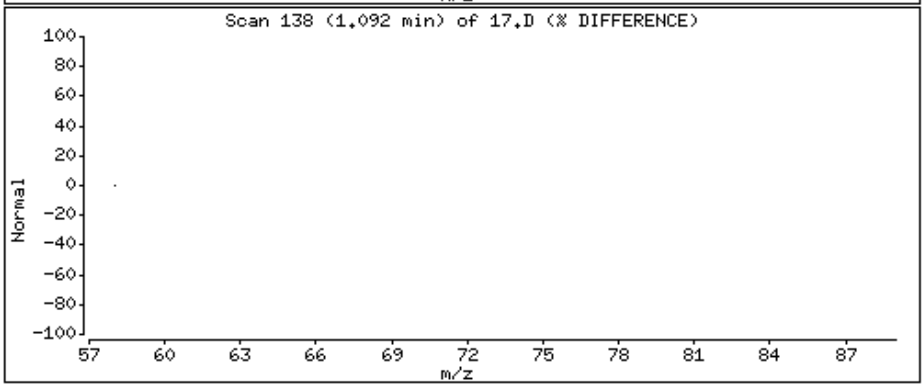












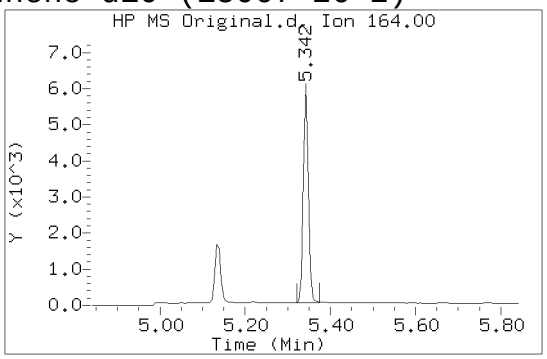
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\17.D
Inj Date : 29-JUN-2023 14:45
InstruID : SV6.i
LabSampID : HS23061712-05

Acenaphthene-d10 (15067-26-2)

Reason Code:

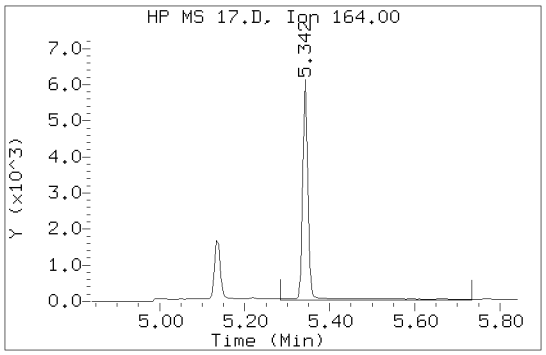
BEFORE

MASS
164
AREA
5023
HEIGHT
6068
29-Jun-2023
15:00
ALSHS
Server



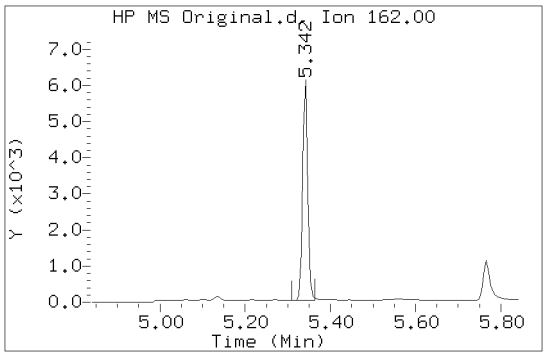
AFTER

MASS
164
AREA
5943
HEIGHT
6104
29-Jun-2023
16:24
ALSHS
Se



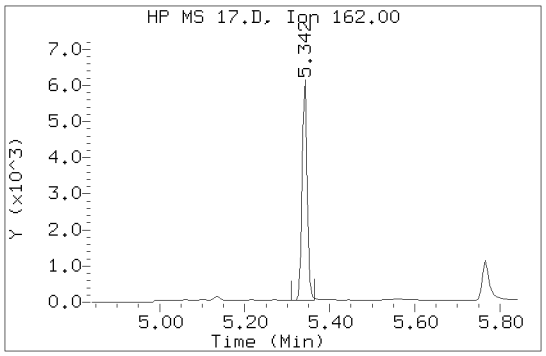
BEFORE

MASS
162
AREA
5121
HEIGHT
6100
29-Jun-2023
15:00
ALSHS
Server



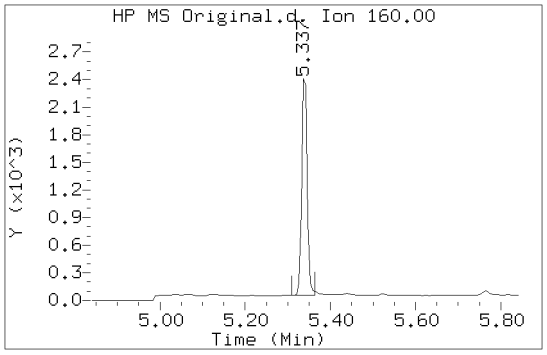
AFTER

MASS
162
AREA
5121
HEIGHT
6100
29-Jun-2023
16:24
ALSHS
Se



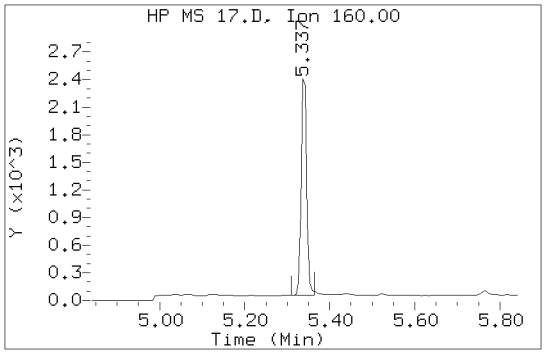
BEFORE

MASS
160
AREA
2167
HEIGHT
2355
29-Jun-2023
15:00
ALSHS
Server



AFTER

MASS
160
AREA
2167
HEIGHT
2355
29-Jun-2023
16:24
ALSHS
Se

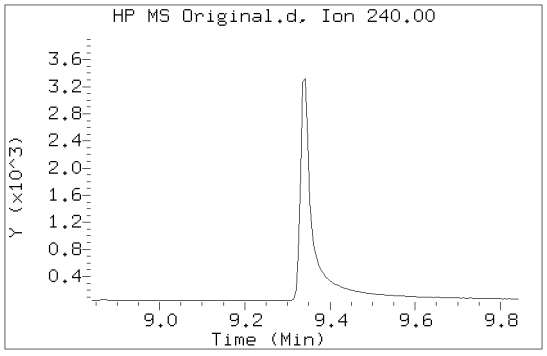


Chrysene-d12 (1719-03-5)

Reason Code:

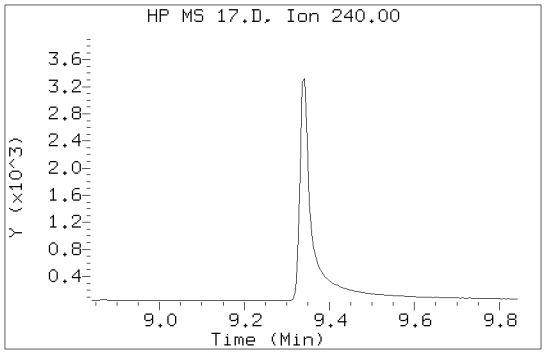
BEFORE

MASS
240
AREA
0
HEIGHT
0
29-Jun-2023
15:00
ALSHS
Server



AFTER

MASS
240
AREA
9989
HEIGHT
3309
29-Jun-2023
16:24
ALSHS
Se



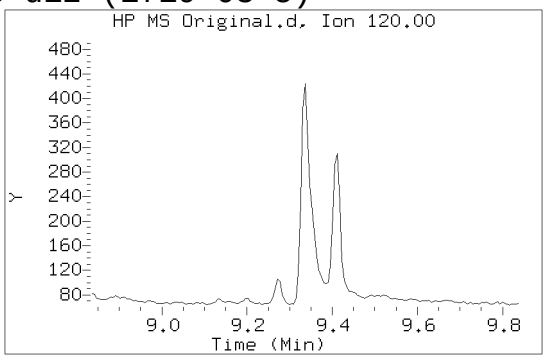
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\17.D
Inj Date : 29-JUN-2023 14:45
InstruID : SV6.i
LabSampID : HS23061712-05

Chrysene-d12 (1719-03-5)

Reason Code:

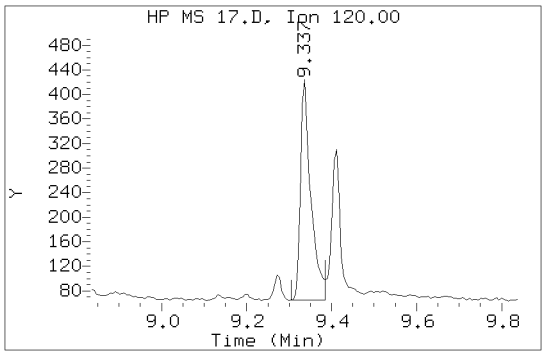
BEFORE

MASS
120
AREA
0
HEIGHT
0
29-Jun-2023
15:00
ALSHS
Server



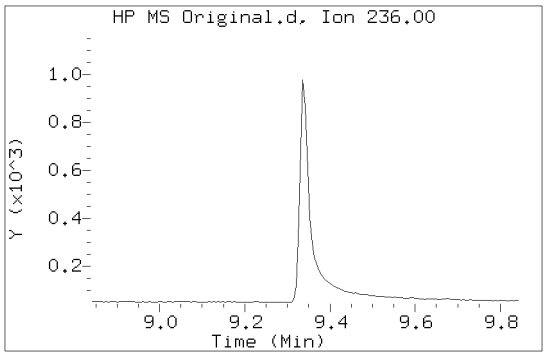
AFTER

MASS
120
AREA
605
HEIGHT
359
29-Jun-2023
16:24
ALSHS
Se



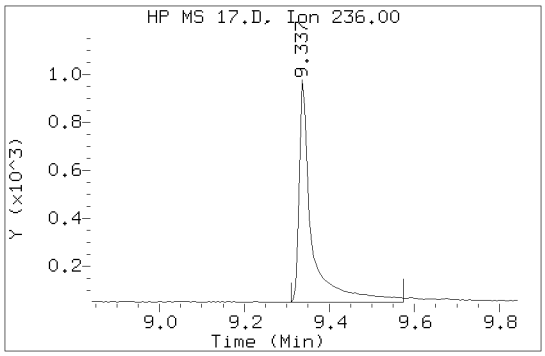
BEFORE

MASS
236
AREA
0
HEIGHT
0
29-Jun-2023
15:00
ALSHS
Server



AFTER

MASS
236
AREA
1899
HEIGHT
926
29-Jun-2023
16:24
ALSHS
Se

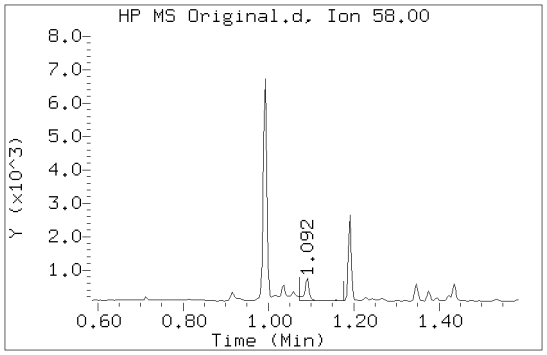


1,4-Dioxane ()

Reason Code:

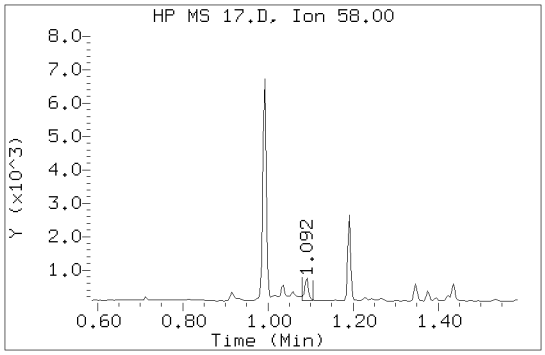
BEFORE

MASS
58
AREA
517
HEIGHT
677
29-Jun-2023
15:00
ALSHS
Server



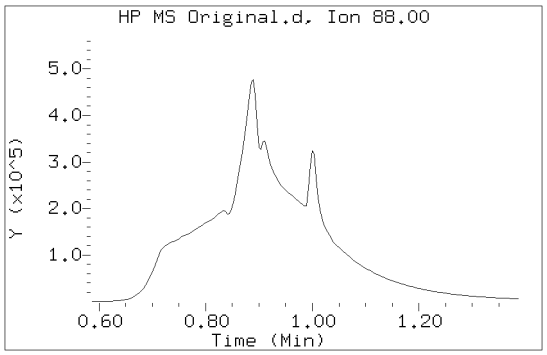
AFTER

MASS
58
AREA
421
HEIGHT
669
29-Jun-2023
16:24
ALSHS
Se



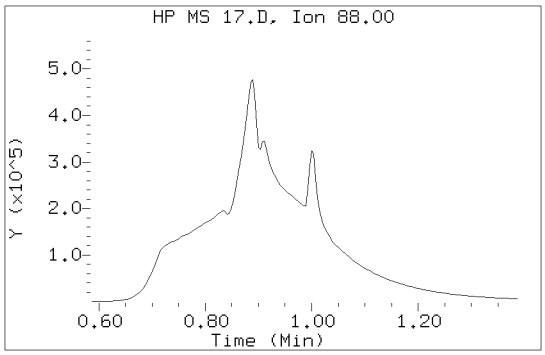
BEFORE

MASS
88
AREA
1484786
HEIGHT
322428
29-Jun-2023
15:00
ALSHS
Server



AFTER

MASS
88
AREA
1484786
HEIGHT
322428
29-Jun-2023
16:24
ALSHS
Se



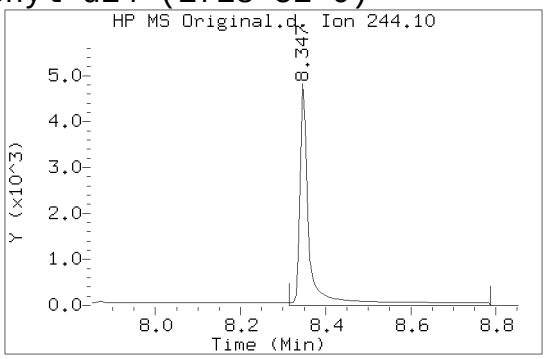
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\17.D
Inj Date : 29-JUN-2023 14:45
InstruID : SV6.i
LabSampID : HS23061712-05

4-Terphenyl-d14 (1718-51-0)

Reason Code:

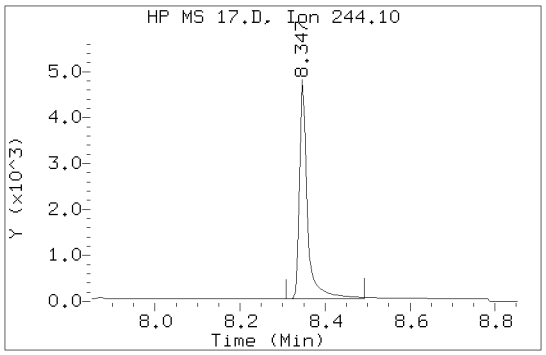
BEFORE

MASS
244.1
AREA
7914
HEIGHT
4826
29-Jun-2023
15:00
ALSHS
Server



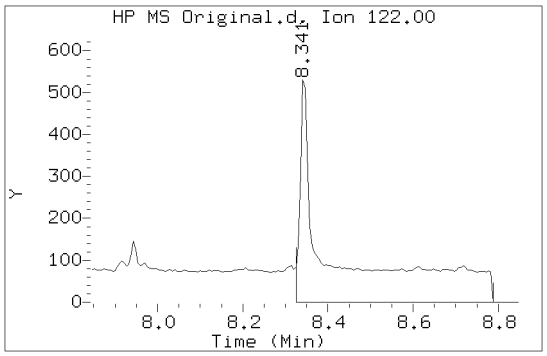
AFTER

MASS
244.1
AREA
6163
HEIGHT
4771
29-Jun-2023
16:24
ALSHS
Se



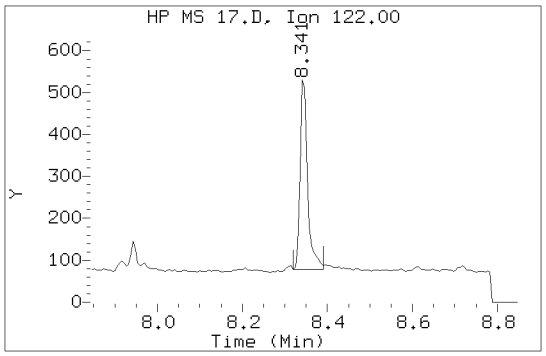
BEFORE

MASS
122
AREA
2708
HEIGHT
530
29-Jun-2023
15:00
ALSHS
Server



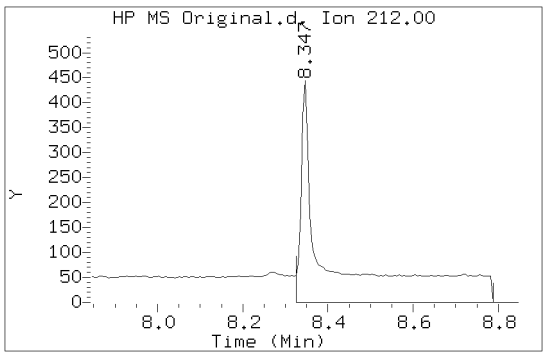
AFTER

MASS
122
AREA
546
HEIGHT
452
29-Jun-2023
16:24
ALSHS
Se



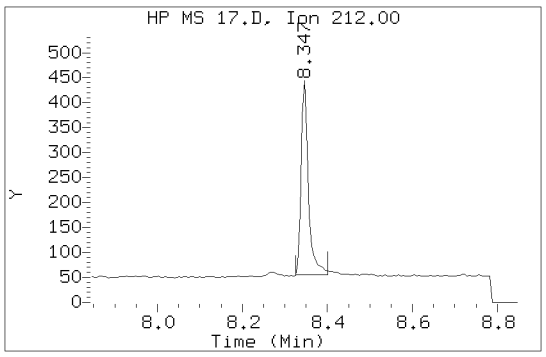
BEFORE

MASS
212
AREA
1970
HEIGHT
444
29-Jun-2023
15:00
ALSHS
Server



AFTER

MASS
212
AREA
455
HEIGHT
389
29-Jun-2023
16:24
ALSHS
Se



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230629.b\18.D
Lab Smp Id: HS23061712-06 Client Smp ID: HS23061712-06
Inj Date : 29-JUN-2023 15:03
Operator : LG Inst ID: SV6.i
Smp Info : HS23061712-06
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230629.b\DXSIM.m
Meth Date : 29-Jun-2023 10:28 jiayi.lu Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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	2.642	2.637	(1.000)	2948	0.10000	(a)
* 45 Naphthalene-d8	136	3.702	3.702	(1.000)	9379	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.088	3.082	(0.834)	2544	0.08928	0.08928(M)
* 86 Acenaphthene-d10	164	5.342	5.342	(1.000)	6825	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.885)	6072	0.08700	0.08700
* 126 Phenanthrene-d10	188	6.765	6.765	(1.000)	10484	0.10000	
* 182 Chrysene-d12	240	9.336	9.341	(1.000)	10391	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.346	8.351	(0.894)	6827	0.08905	0.08905(M)
* 198 Perylene-d12	264	11.039	11.038	(1.000)	7061	0.10000	
1 1,4-Dioxane	58	1.073	1.084	(0.406)	266	0.02659	0.02659(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01202093

Data File: \\nahstws005\Target\chem\SV6.i\230629.b\18.D

Date : 29-JUN-2023 15:03

Client ID: HS23061712-06

Instrument: SV6.i

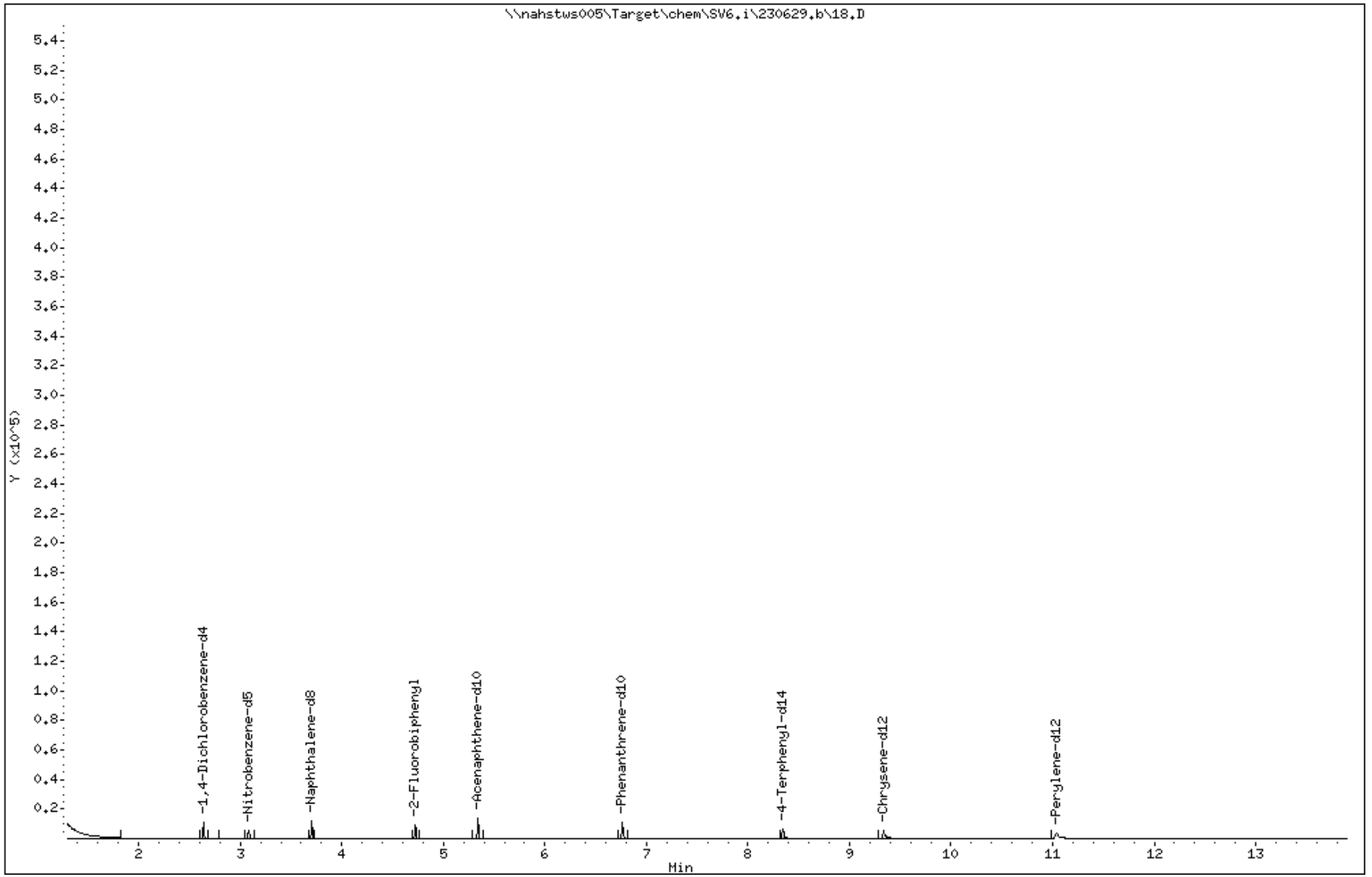
Sample Info: HS23061712-06

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\nahstws005\Target\chem\SV6.i\230629.b\18.D

Date : 29-JUN-2023 15:03

Client ID: HS23061712-06

Instrument: SV6.i

Sample Info: HS23061712-06

Purge Volume: 1000.0

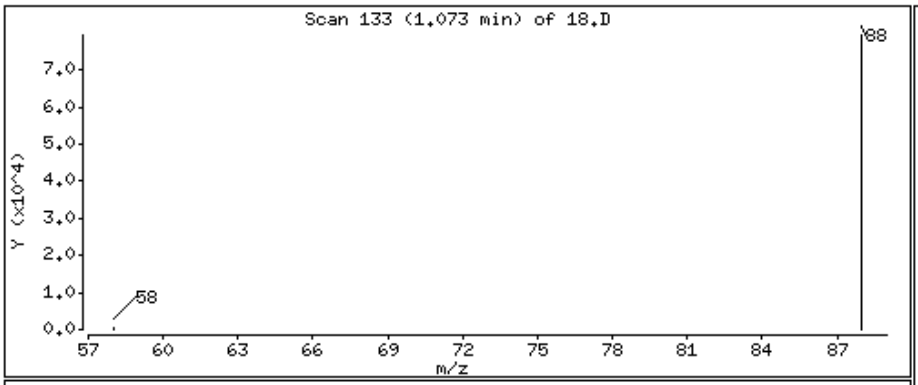
Operator: LG

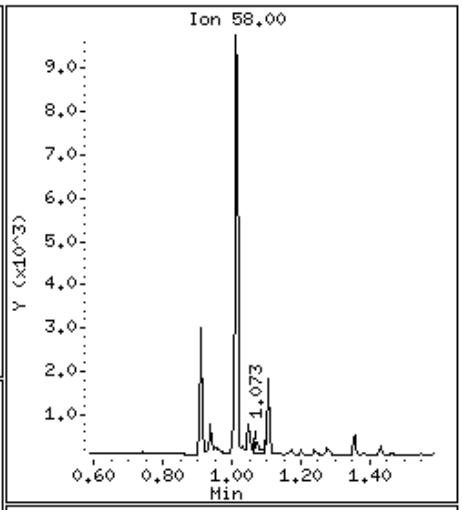
Column phase: RTX-5SIL MS

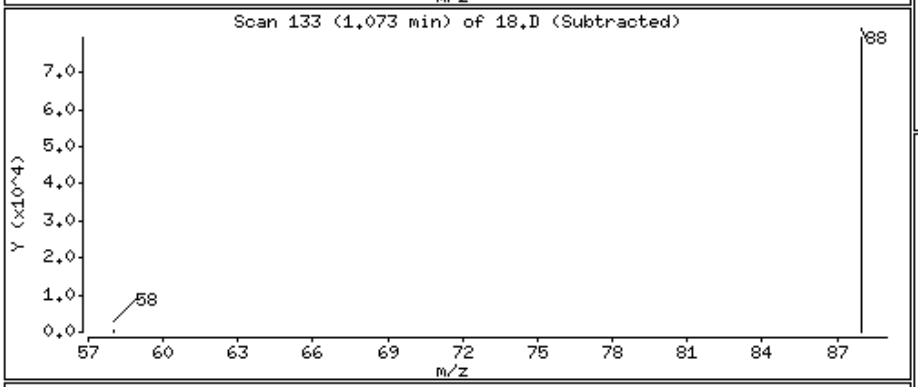
Column diameter: 0.28

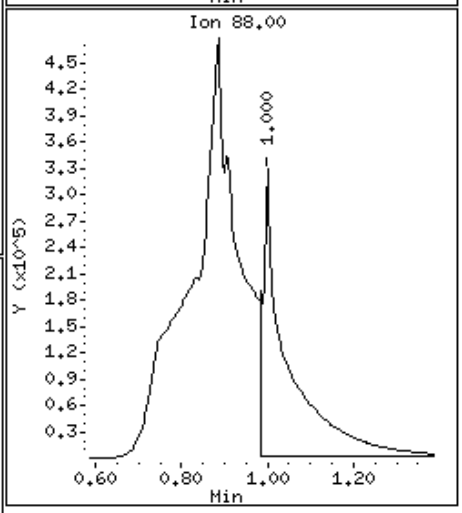
1 1,4-Dioxane

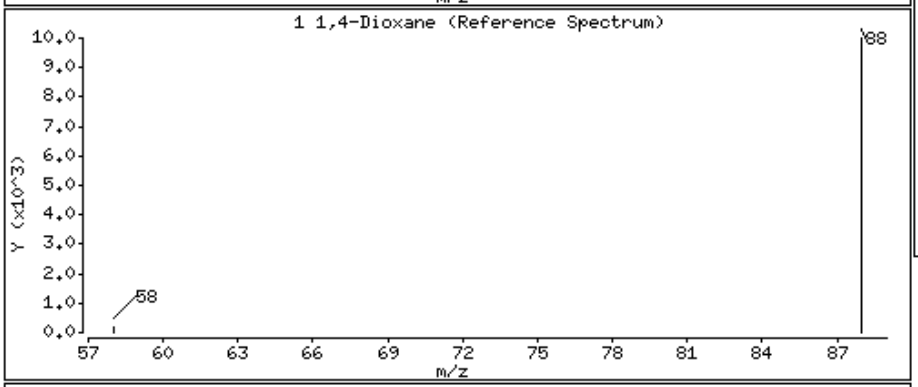
Concentration: 0.02659 ug/L

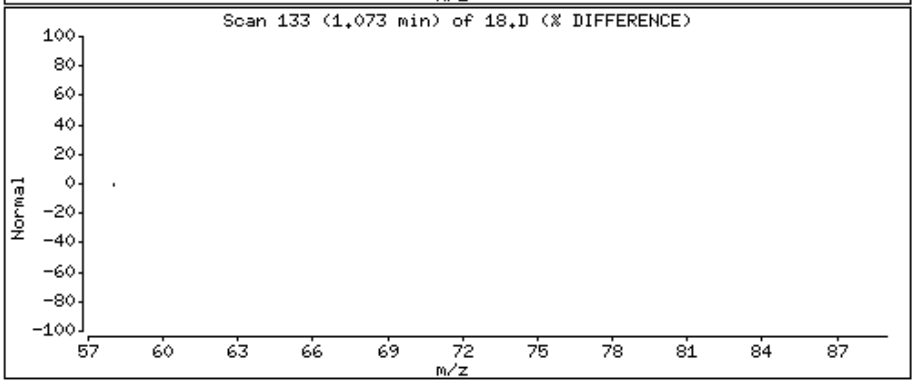












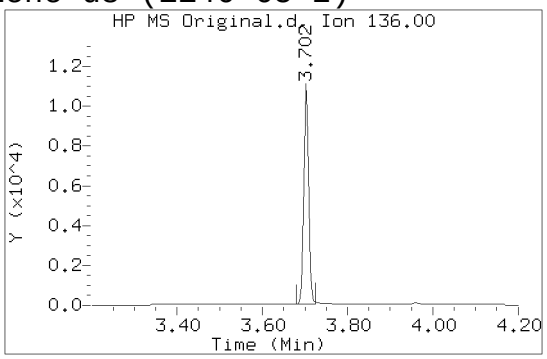
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\18.D
Inj Date : 29-JUN-2023 15:03
InstruID : SV6.i
LabSampID : HS23061712-06

Naphthalene-d8 (1146-65-2)

Reason Code:

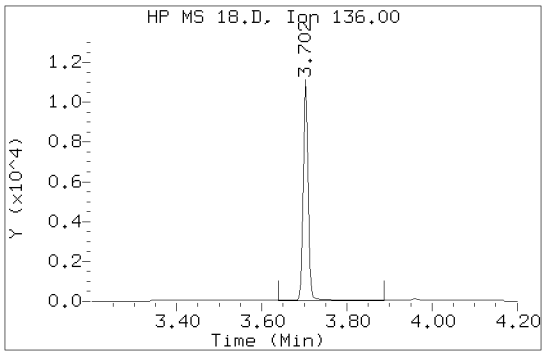
BEFORE

MASS
136
AREA
8941
HEIGHT
11079
29-Jun-2023
15:19
ALSHS
Server



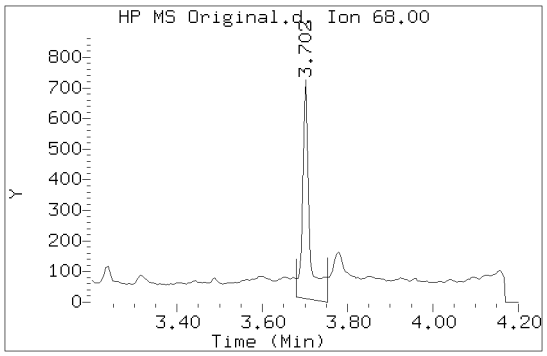
AFTER

MASS
136
AREA
9379
HEIGHT
11095
29-Jun-2023
16:24
ALSHS
Se



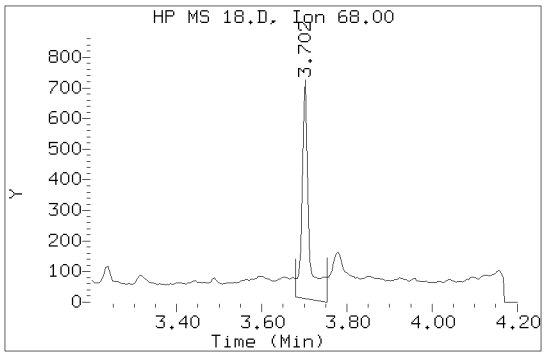
BEFORE

MASS
68
AREA
848
HEIGHT
714
29-Jun-2023
15:19
ALSHS
Server



AFTER

MASS
68
AREA
848
HEIGHT
714
29-Jun-2023
16:24
ALSHS
Se

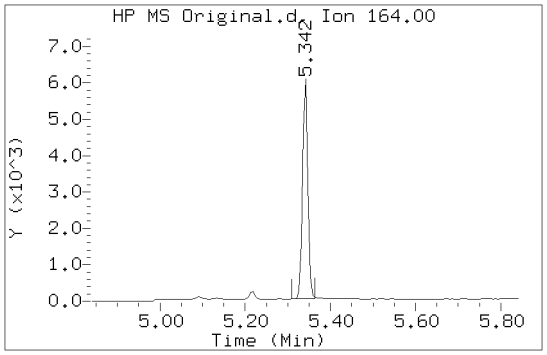


Acenaphthene-d10 (15067-26-2)

Reason Code:

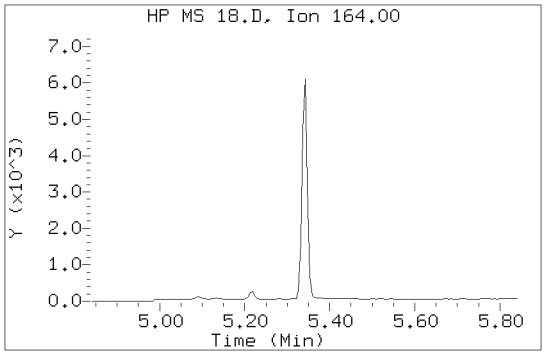
BEFORE

MASS
164
AREA
5257
HEIGHT
6045
29-Jun-2023
15:19
ALSHS
Server



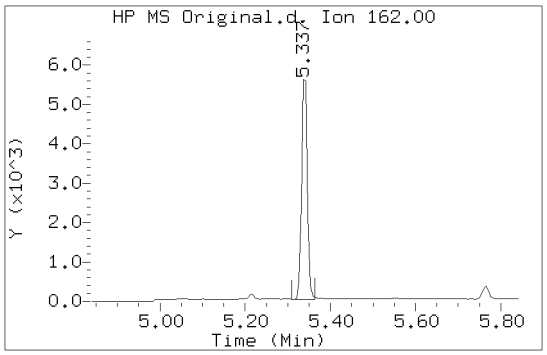
AFTER

MASS
164
AREA
6825
HEIGHT
6086
29-Jun-2023
16:24
ALSHS
Se



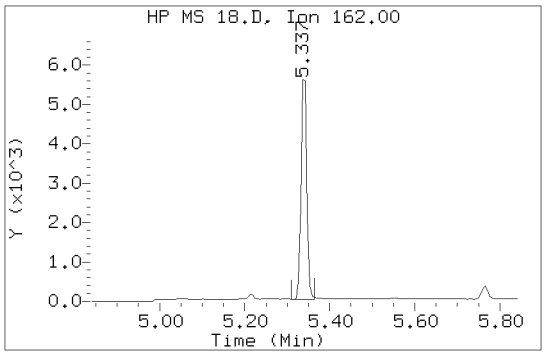
BEFORE

MASS
162
AREA
5332
HEIGHT
5575
29-Jun-2023
15:19
ALSHS
Server



AFTER

MASS
162
AREA
5332
HEIGHT
5575
29-Jun-2023
16:24
ALSHS
Se



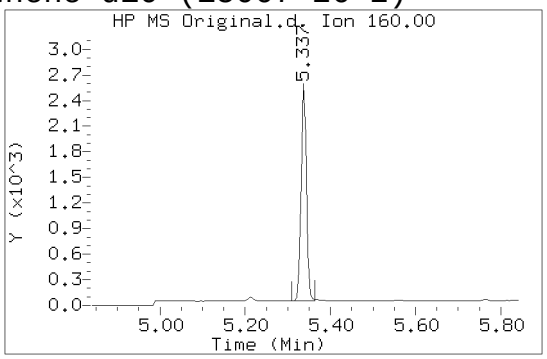
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\18.D
Inj Date : 29-JUN-2023 15:03
InstruID : SV6.i
LabSampID : HS23061712-06

Acenaphthene-d10 (15067-26-2)

Reason Code:

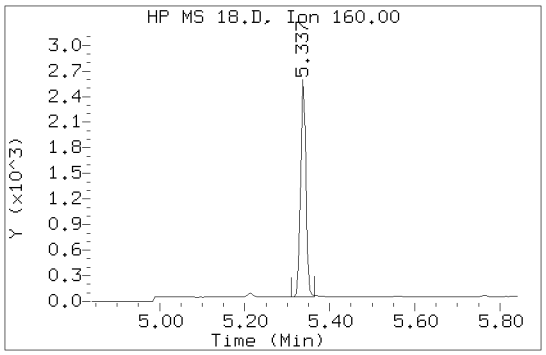
BEFORE

MASS
160
AREA
2245
HEIGHT
2548
29-Jun-2023
15:19
ALSHS
Server



AFTER

MASS
160
AREA
2245
HEIGHT
2548
29-Jun-2023
16:24
ALSHS
Se

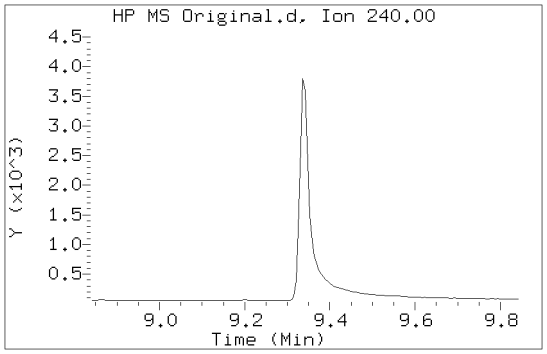


Chrysene-d12 (1719-03-5)

Reason Code:

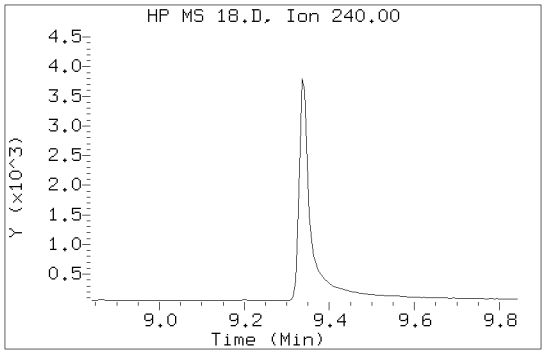
BEFORE

MASS
240
AREA
0
HEIGHT
0
29-Jun-2023
15:19
ALSHS
Server



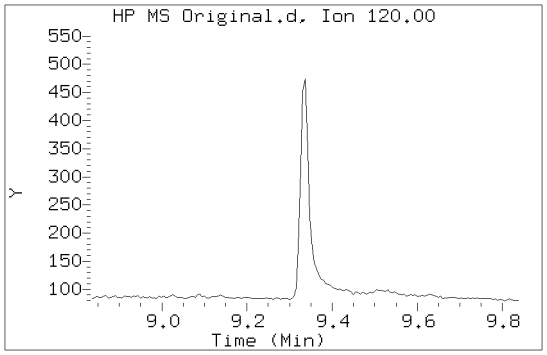
AFTER

MASS
240
AREA
10391
HEIGHT
3771
29-Jun-2023
16:24
ALSHS
Se



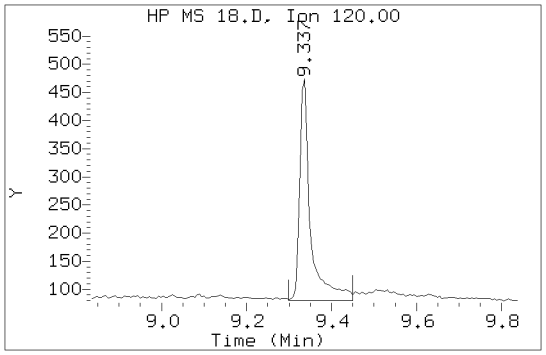
BEFORE

MASS
120
AREA
0
HEIGHT
0
29-Jun-2023
15:19
ALSHS
Server



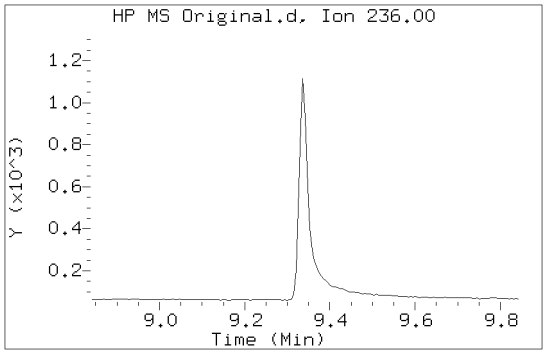
AFTER

MASS
120
AREA
694
HEIGHT
394
29-Jun-2023
16:24
ALSHS
Se



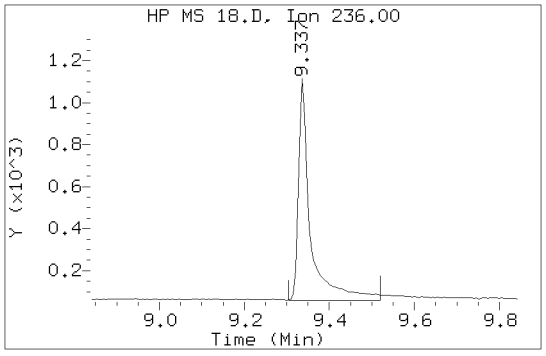
BEFORE

MASS
236
AREA
0
HEIGHT
0
29-Jun-2023
15:19
ALSHS
Server



AFTER

MASS
236
AREA
2051
HEIGHT
1055
29-Jun-2023
16:24
ALSHS
Se



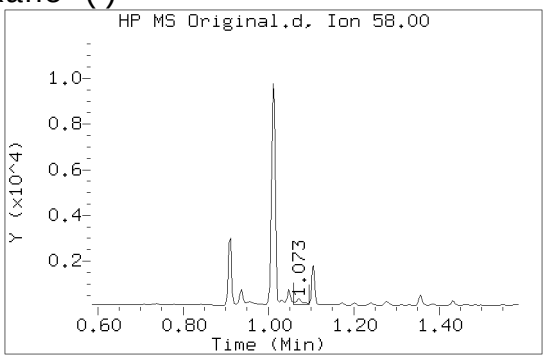
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\18.D
Inj Date : 29-JUN-2023 15:03
InstruID : SV6.i
LabSampID : HS23061712-06

1,4-Dioxane ()

Reason Code:

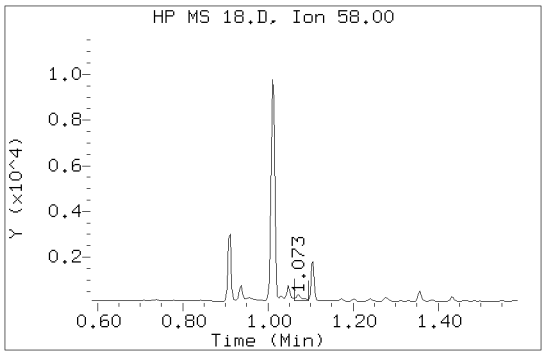
BEFORE

MASS
58
AREA
296
HEIGHT
261
29-Jun-2023
15:19
ALSHS
Server



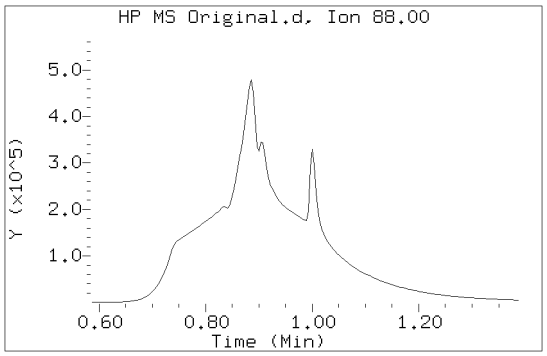
AFTER

MASS
58
AREA
266
HEIGHT
259
29-Jun-2023
16:24
ALSHS
Se



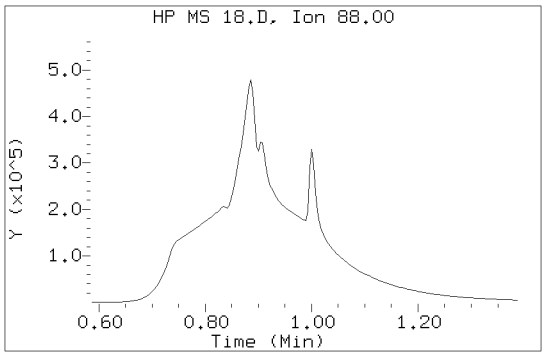
BEFORE

MASS
88
AREA
1292425
HEIGHT
328545
29-Jun-2023
15:19
ALSHS
Server



AFTER

MASS
88
AREA
1292425
HEIGHT
328545
29-Jun-2023
16:24
ALSHS
Se

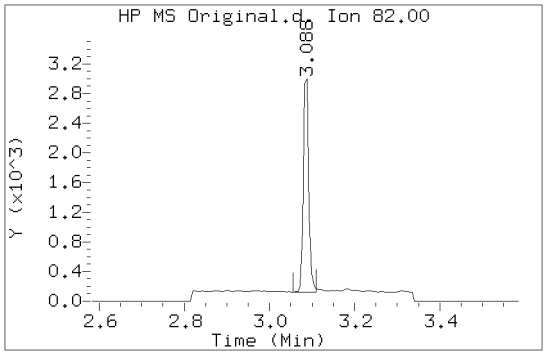


Nitrobenzene-d5 (4165-60-0)

Reason Code:

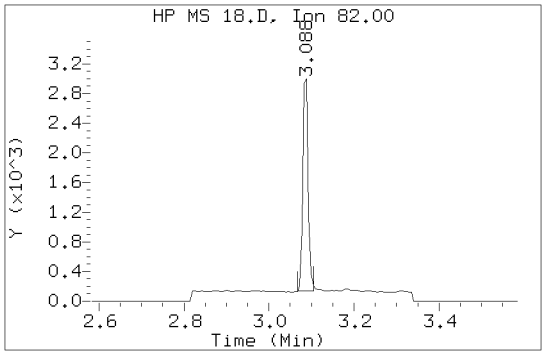
BEFORE

MASS
82
AREA
2589
HEIGHT
2874
29-Jun-2023
15:19
ALSHS
Server



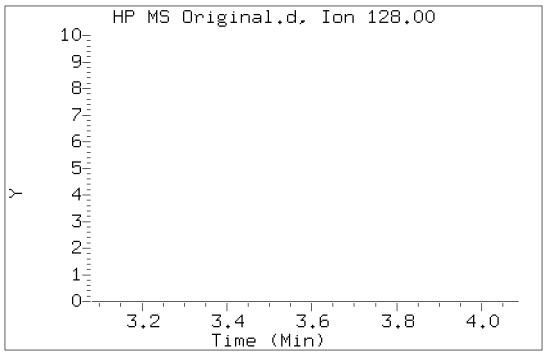
AFTER

MASS
82
AREA
2544
HEIGHT
2862
29-Jun-2023
16:24
ALSHS
Se



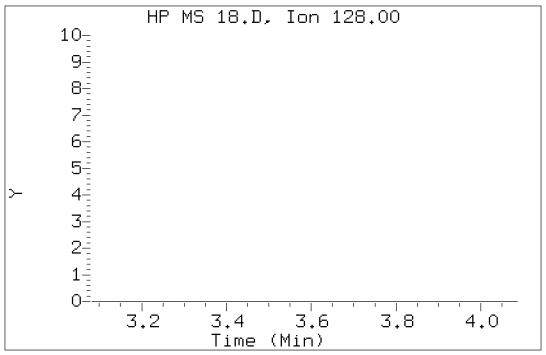
BEFORE

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
15:19
ALSHS
Server



AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
16:24
ALSHS
Se



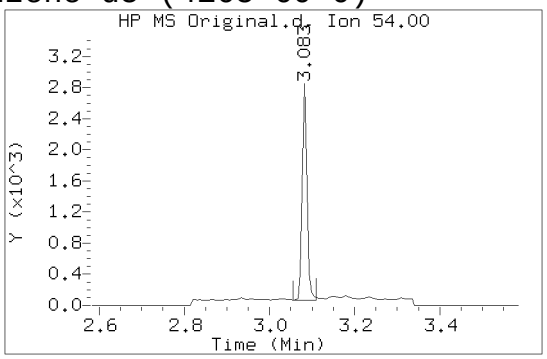
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\18.D
Inj Date : 29-JUN-2023 15:03
InstruID : SV6.i
LabSampID : HS23061712-06

Nitrobenzene-d5 (4165-60-0)

Reason Code:

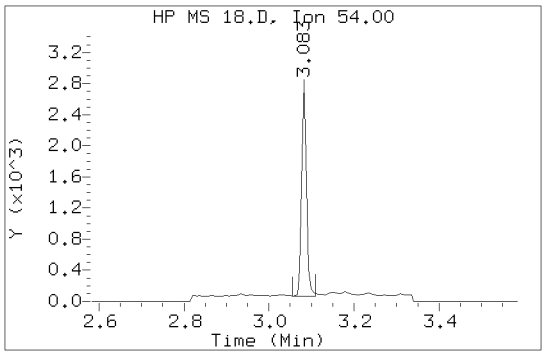
BEFORE

MASS
54
AREA
2216
HEIGHT
2781
29-Jun-2023
15:19
ALSHS
Server



AFTER

MASS
54
AREA
2216
HEIGHT
2781
29-Jun-2023
16:24
ALSHS
Se

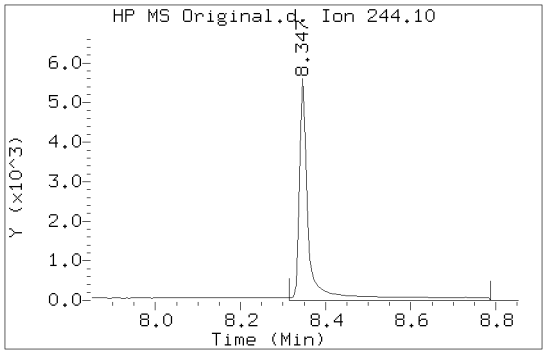


4-Terphenyl-d14 (1718-51-0)

Reason Code:

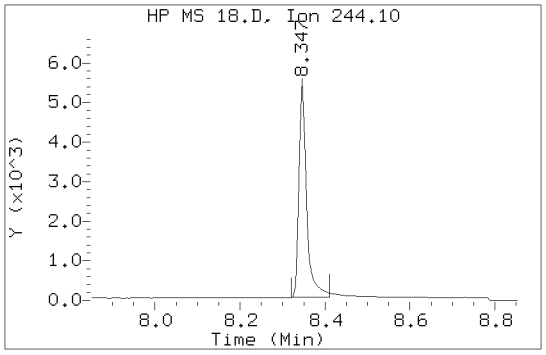
BEFORE

MASS
244.1
AREA
9195
HEIGHT
5605
29-Jun-2023
15:19
ALSHS
Server



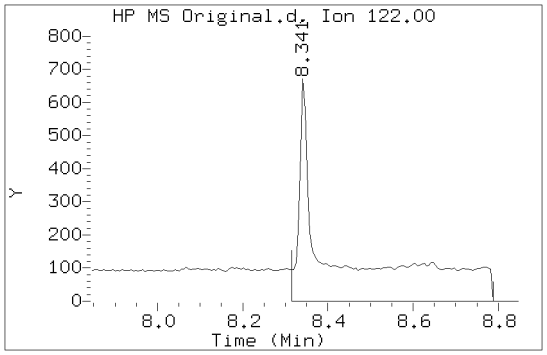
AFTER

MASS
244.1
AREA
6827
HEIGHT
5531
29-Jun-2023
16:24
ALSHS
Se



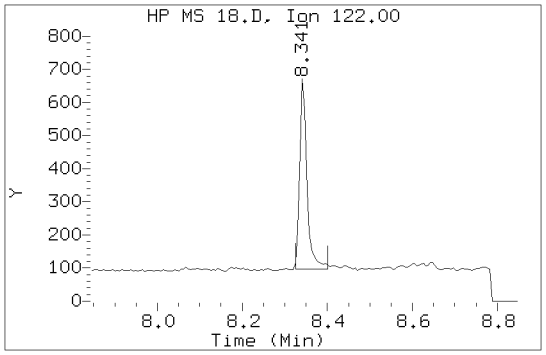
BEFORE

MASS
122
AREA
3536
HEIGHT
671
29-Jun-2023
15:19
ALSHS
Server



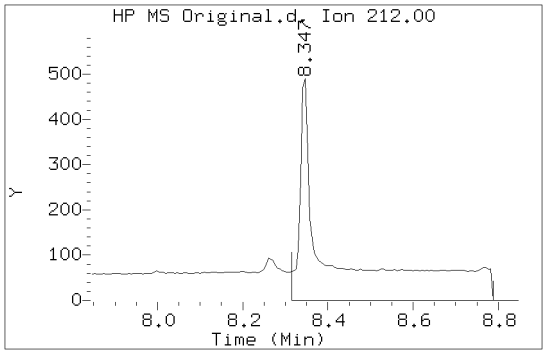
AFTER

MASS
122
AREA
680
HEIGHT
574
29-Jun-2023
16:24
ALSHS
Se



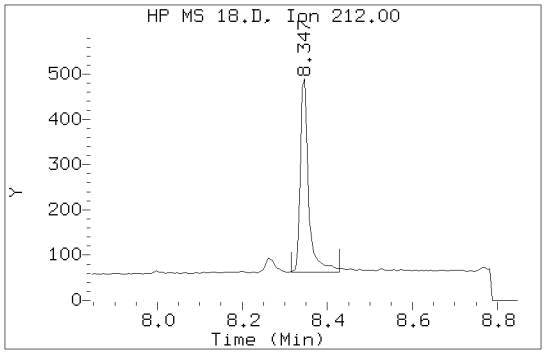
BEFORE

MASS
212
AREA
2442
HEIGHT
490
29-Jun-2023
15:19
ALSHS
Server



AFTER

MASS
212
AREA
571
HEIGHT
427
29-Jun-2023
16:24
ALSHS
Se



Data File: \\nahstws005\Target\chem\SV6.i\230629.b\20.D Page 1
Report Date: 29-Jun-2023 16:24

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230629.b\20.D
Lab Smp Id: HS23061712-01 Client Smp ID: HS23061712-01
Inj Date : 29-JUN-2023 16:06
Operator : LG Inst ID: SV6.i
Smp Info : HS23061712-01X1H
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230629.b\DXSIM.m
Meth Date : 29-Jun-2023 10:28 jiayi.lu Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 20
Dil Factor: 100.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	100.000	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	2.642	2.637	(1.000)	2396	0.10000		(a)
* 45 Naphthalene-d8	136	3.705	3.702	(1.000)	7356	0.10000		(M)
* 86 Acenaphthene-d10	164	5.342	5.342	(1.000)	4362	0.10000		(M)
* 126 Phenanthrene-d10	188	6.770	6.765	(1.000)	8785	0.10000		(M)
* 182 Chrysene-d12	240	9.347	9.341	(1.000)	5592	0.10000		(M)
* 198 Perylene-d12	264	11.044	11.038	(1.000)	5299	0.10000		(M)
1 1,4-Dioxane	58	1.099	1.084	(0.416)	719	0.08844	8.844	(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01202100

Data File: \\nahstws005\Target\chem\SV6.i\230629.b\20.D

Date : 29-JUN-2023 16:06

Client ID: HS23061712-01

Instrument: SV6.i

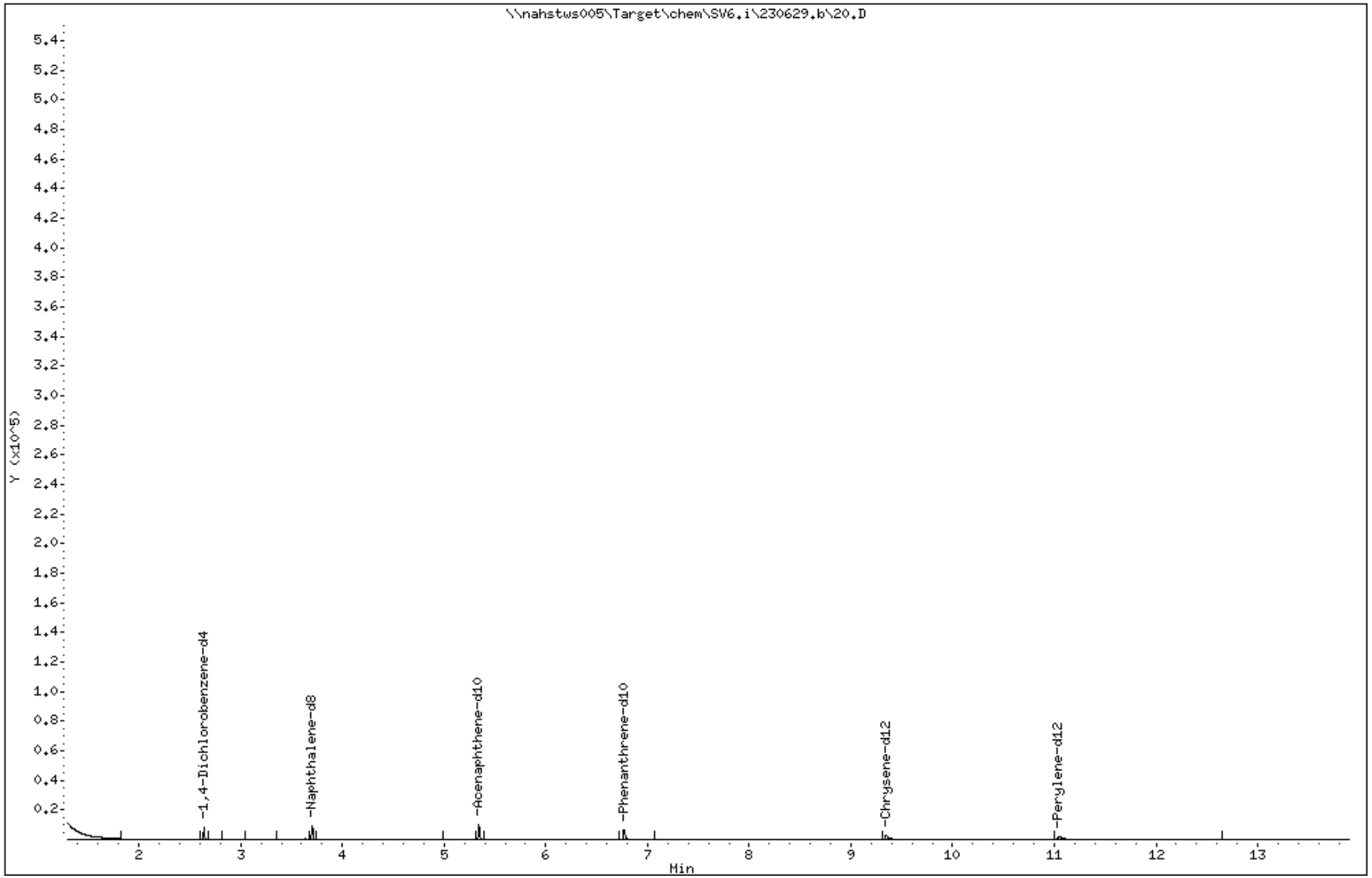
Sample Info: HS23061712-01X1H

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\nahstws005\Target\chem\SV6.i\230629.b\20.D

Date : 29-JUN-2023 16:06

Client ID: HS23061712-01

Instrument: SV6.i

Sample Info: HS23061712-01X1H

Purge Volume: 1000.0

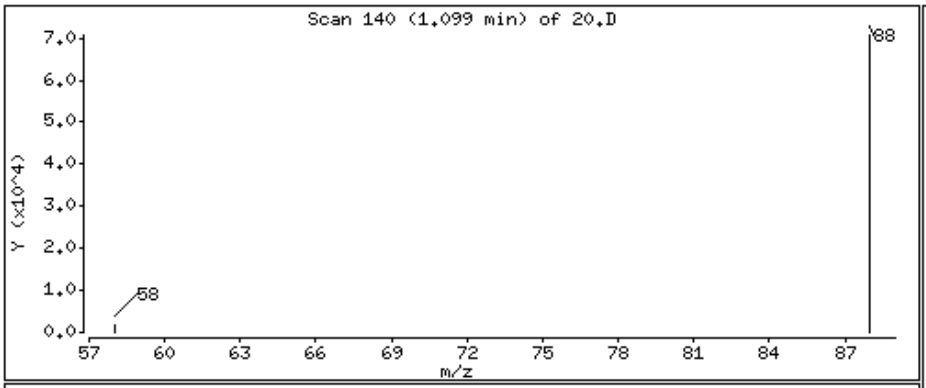
Operator: LG

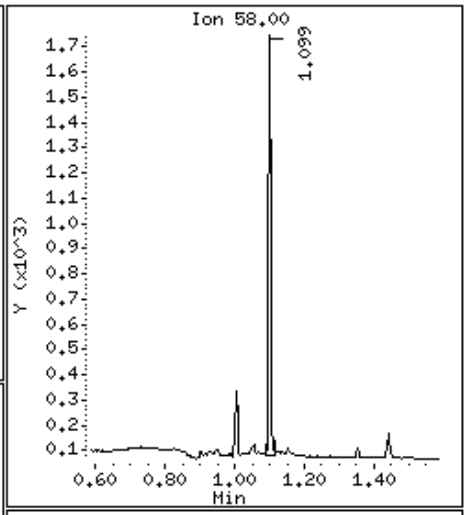
Column phase: RTX-5SIL MS

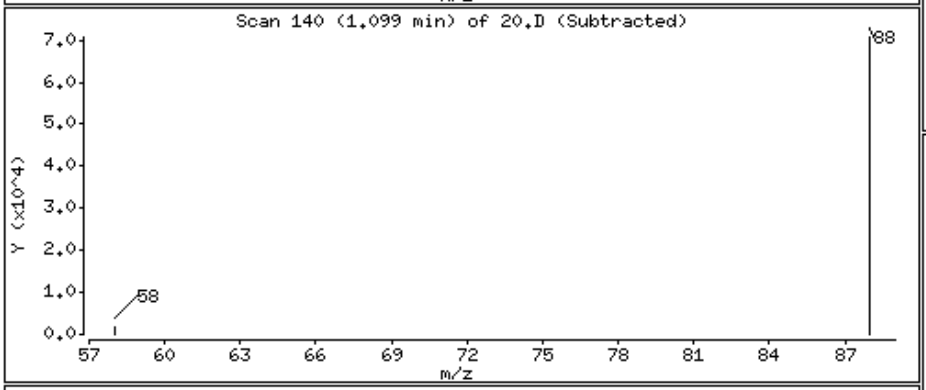
Column diameter: 0.28

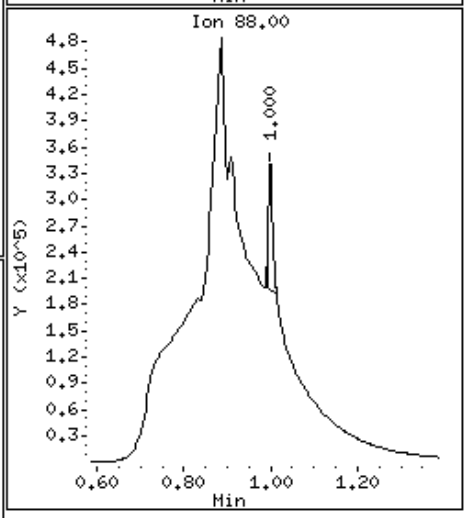
1 1,4-Dioxane

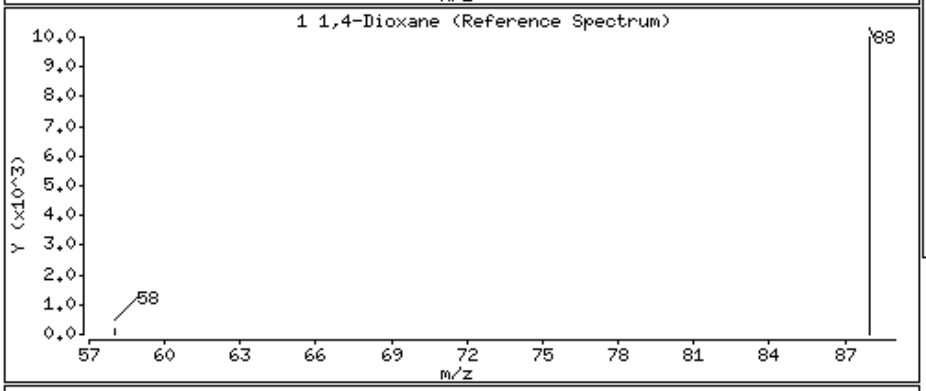
Concentration: 8.844 ug/L

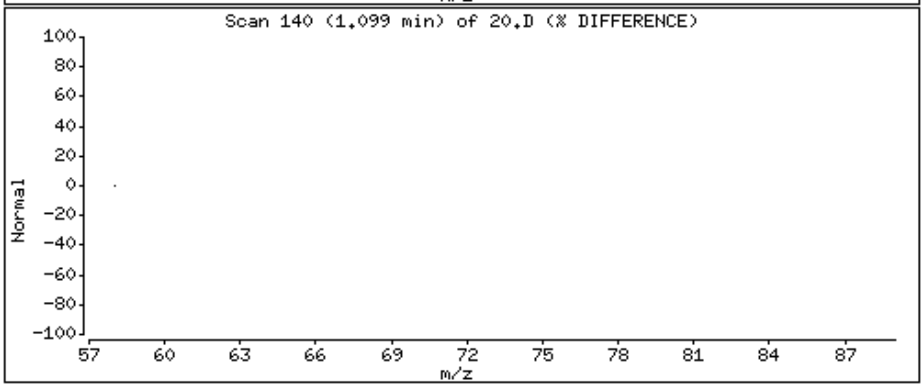












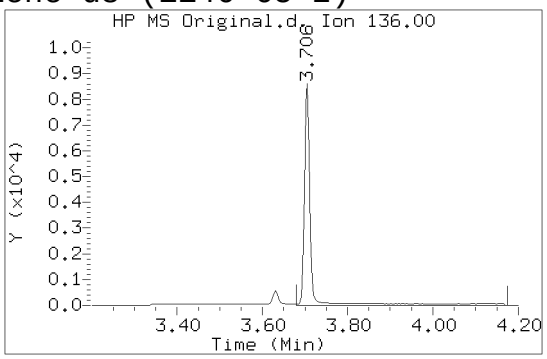
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\20.D
Inj Date : 29-JUN-2023 16:06
InstruID : SV6.i
LabSampID : HS23061712-01

Naphthalene-d8 (1146-65-2)

Reason Code:

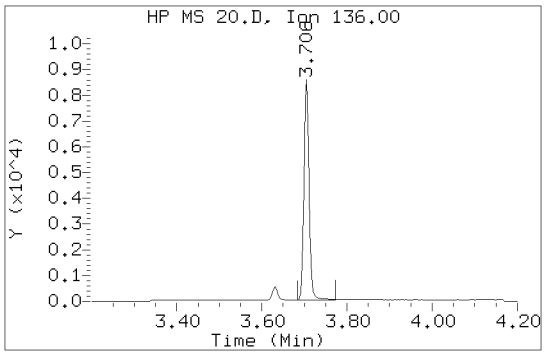
BEFORE

MASS
136
AREA
9161
HEIGHT
8609
29-Jun-2023
16:21
ALSHS
Server



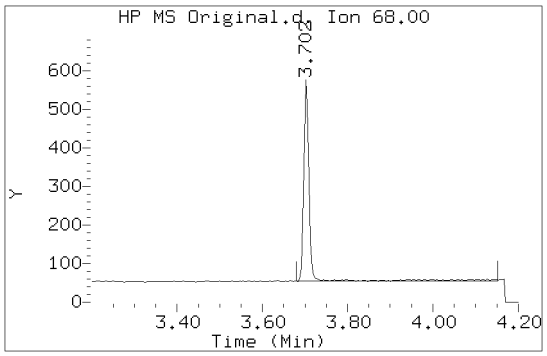
AFTER

MASS
136
AREA
7356
HEIGHT
8559
29-Jun-2023
16:24
ALSHS
Se



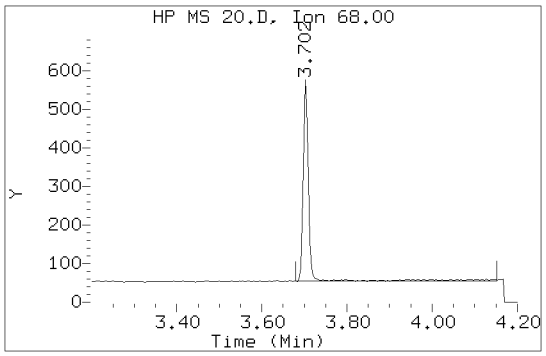
BEFORE

MASS
68
AREA
486
HEIGHT
522
29-Jun-2023
16:21
ALSHS
Server



AFTER

MASS
68
AREA
486
HEIGHT
522
29-Jun-2023
16:24
ALSHS
Se

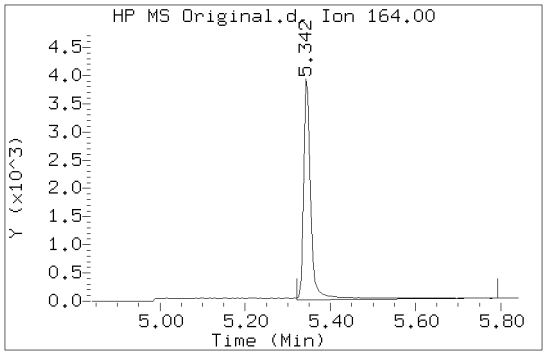


Acenaphthene-d10 (15067-26-2)

Reason Code:

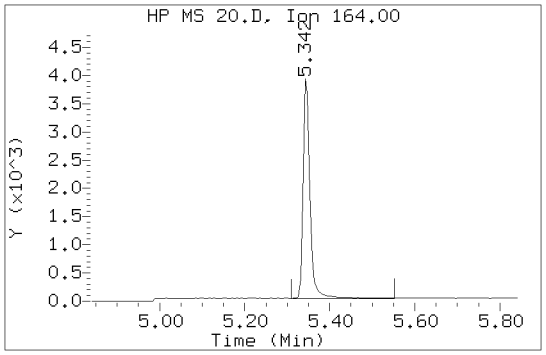
BEFORE

MASS
164
AREA
4783
HEIGHT
3917
29-Jun-2023
16:21
ALSHS
Server



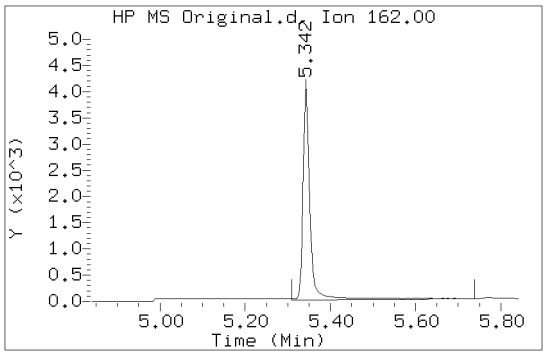
AFTER

MASS
164
AREA
4362
HEIGHT
3891
29-Jun-2023
16:24
ALSHS
Se



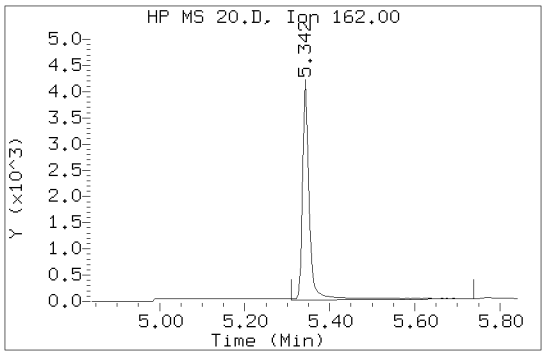
BEFORE

MASS
162
AREA
4797
HEIGHT
4202
29-Jun-2023
16:21
ALSHS
Server



AFTER

MASS
162
AREA
4797
HEIGHT
4202
29-Jun-2023
16:24
ALSHS
Se



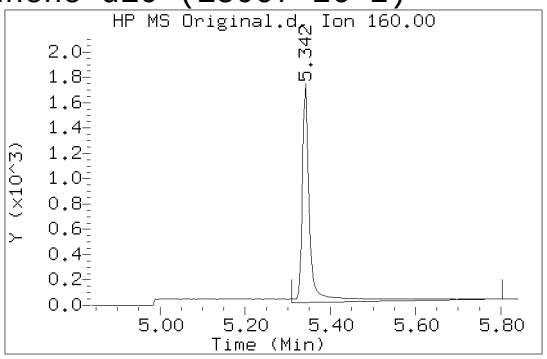
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\20.D
Inj Date : 29-JUN-2023 16:06
InstruID : SV6.i
LabSampID : HS23061712-01

Acenaphthene-d10 (15067-26-2)

Reason Code:

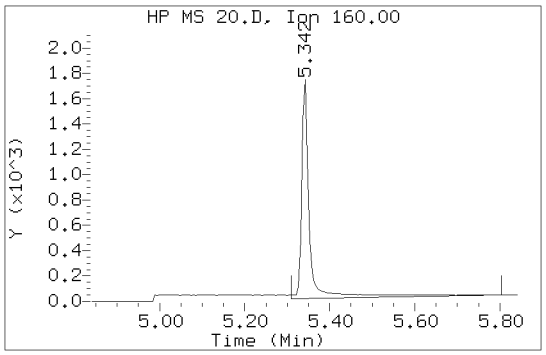
BEFORE

MASS
160
AREA
2311
HEIGHT
1729
29-Jun-2023
16:21
ALSHS
Server



AFTER

MASS
160
AREA
2311
HEIGHT
1729
29-Jun-2023
16:24
ALSHS
Se

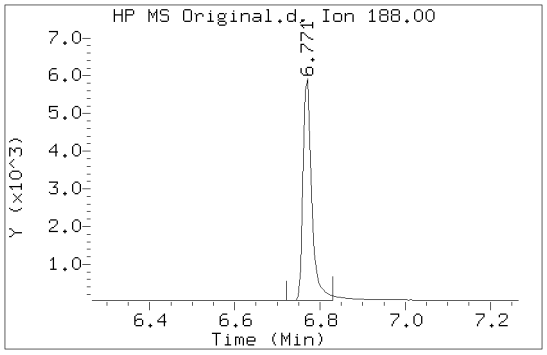


Phenanthrene-d10 (1517-22-2)

Reason Code:

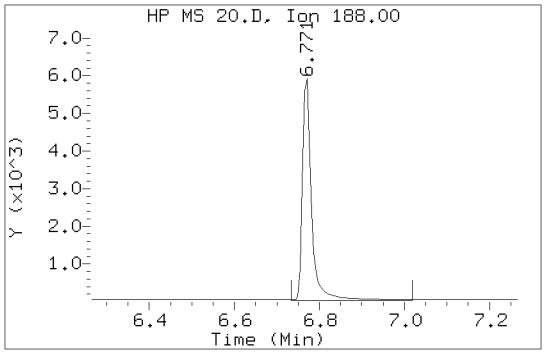
BEFORE

MASS
188
AREA
8291
HEIGHT
5871
29-Jun-2023
16:21
ALSHS
Server



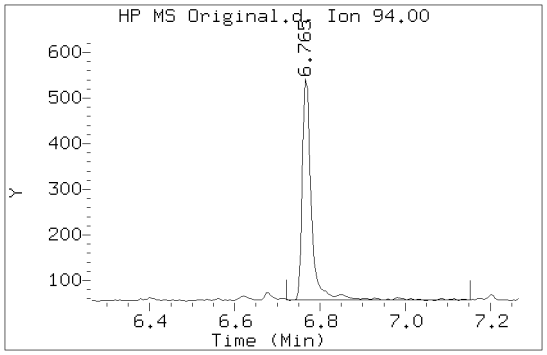
AFTER

MASS
188
AREA
8785
HEIGHT
5882
29-Jun-2023
16:24
ALSHS
Se



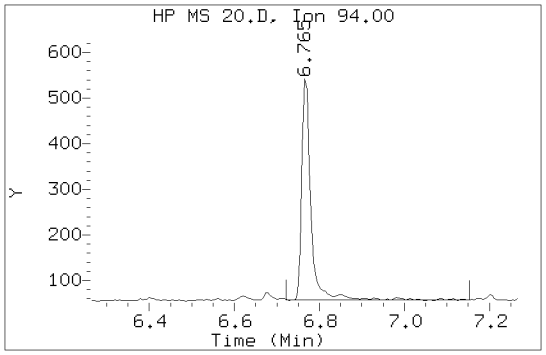
BEFORE

MASS
94
AREA
720
HEIGHT
484
29-Jun-2023
16:21
ALSHS
Server



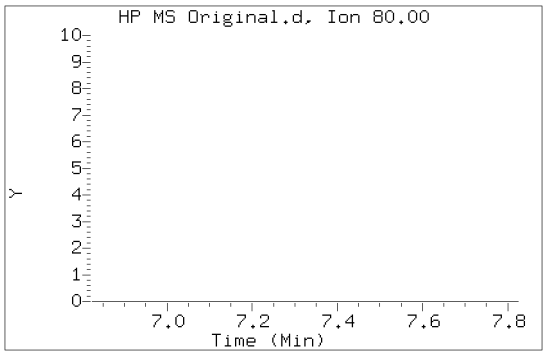
AFTER

MASS
94
AREA
720
HEIGHT
484
29-Jun-2023
16:24
ALSHS
Se



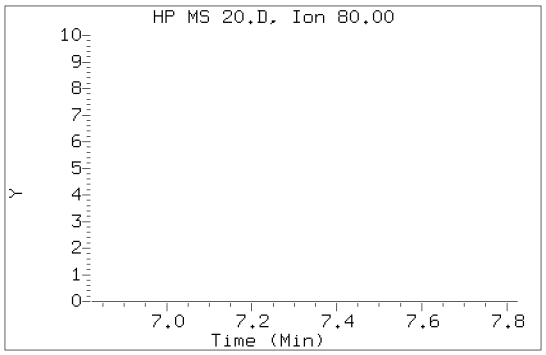
BEFORE

MASS
80
AREA
0
HEIGHT
0
29-Jun-2023
16:21
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
29-Jun-2023
16:24
ALSHS
Se

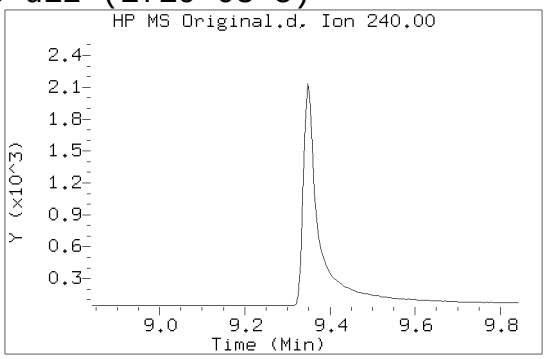


Data File : \\nahstws005\Target\chem\SV6.i\230629.b\20.D
Inj Date : 29-JUN-2023 16:06
InstruID : SV6.i
LabSampID : HS23061712-01

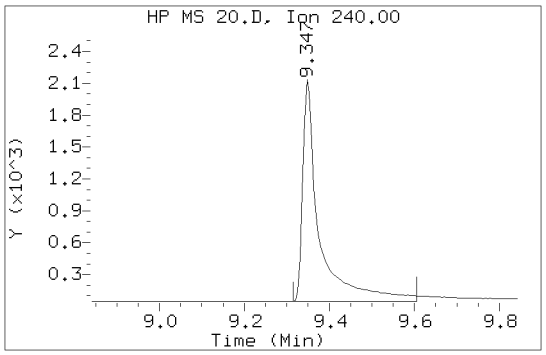
Chrysene-d12 (1719-03-5)

Reason Code:

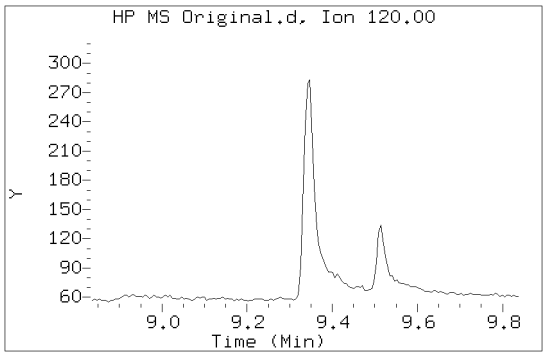
BEFORE
MASS
240
AREA
0
HEIGHT
0
29-Jun-2023
16:21
ALSHS
Server



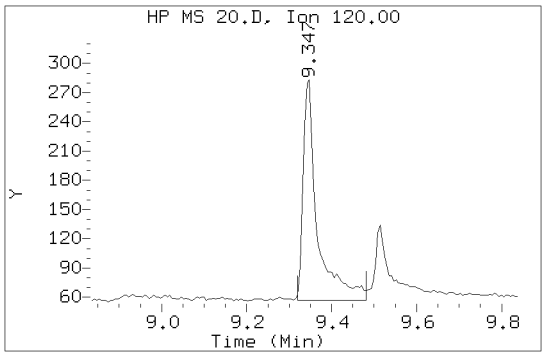
AFTER
MASS
240
AREA
5592
HEIGHT
2083
29-Jun-2023
16:24
ALSHS
Se



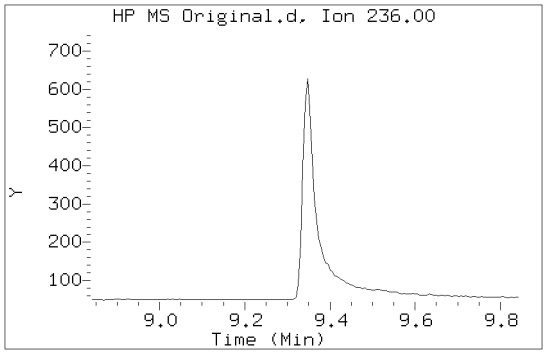
BEFORE
MASS
120
AREA
0
HEIGHT
0
29-Jun-2023
16:21
ALSHS
Server



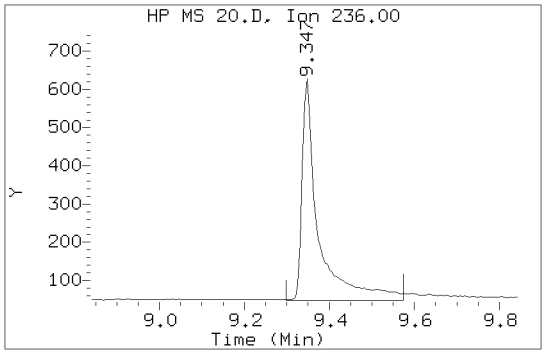
AFTER
MASS
120
AREA
525
HEIGHT
226
29-Jun-2023
16:24
ALSHS
Se



BEFORE
MASS
236
AREA
0
HEIGHT
0
29-Jun-2023
16:21
ALSHS
Server



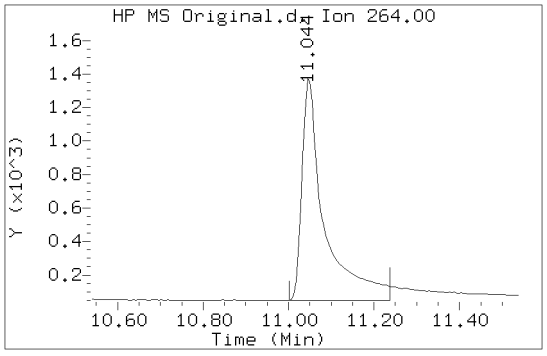
AFTER
MASS
236
AREA
1538
HEIGHT
580
29-Jun-2023
16:24
ALSHS
Se



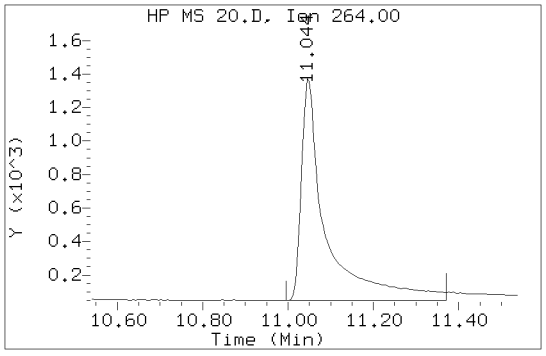
Perylene-d12 (1520-96-3)

Reason Code:

BEFORE
MASS
264
AREA
4809
HEIGHT
1322
29-Jun-2023
16:21
ALSHS
Server



AFTER
MASS
264
AREA
5299
HEIGHT
1322
29-Jun-2023
16:24
ALSHS
Se



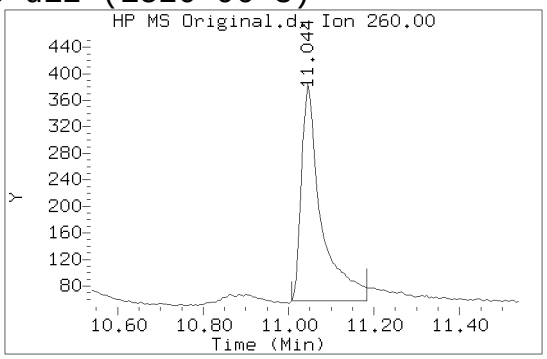
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\20.D
Inj Date : 29-JUN-2023 16:06
InstruID : SV6.i
LabSampID : HS23061712-01

Perylene-d12 (1520-96-3)

Reason Code:

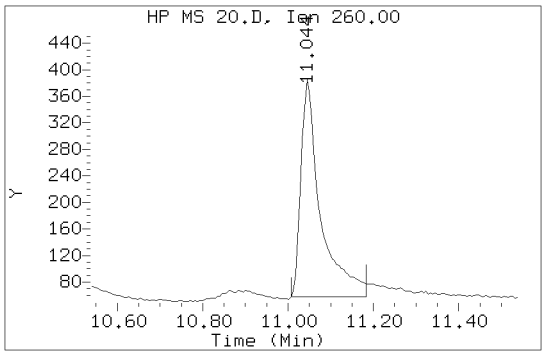
BEFORE

MASS
260
AREA
1042
HEIGHT
327
29-Jun-2023
16:21
ALSHS
Server



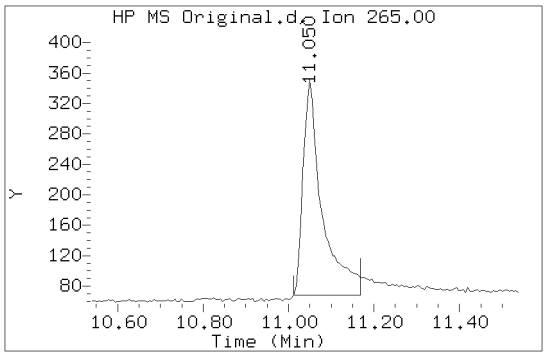
AFTER

MASS
260
AREA
1042
HEIGHT
327
29-Jun-2023
16:24
ALSHS
Se



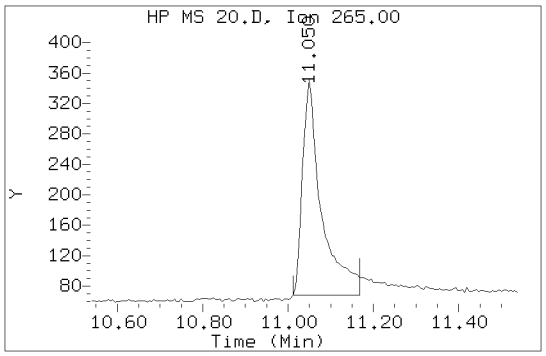
BEFORE

MASS
265
AREA
876
HEIGHT
283
29-Jun-2023
16:21
ALSHS
Server



AFTER

MASS
265
AREA
876
HEIGHT
283
29-Jun-2023
16:24
ALSHS
Se

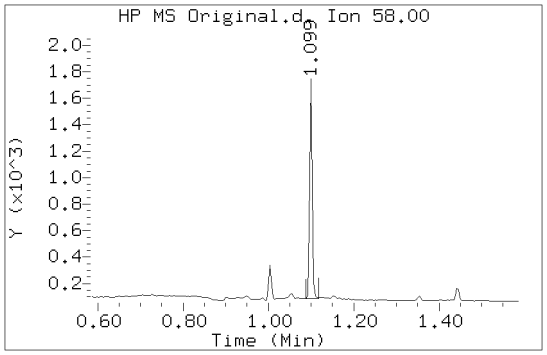


1,4-Dioxane ()

Reason Code:

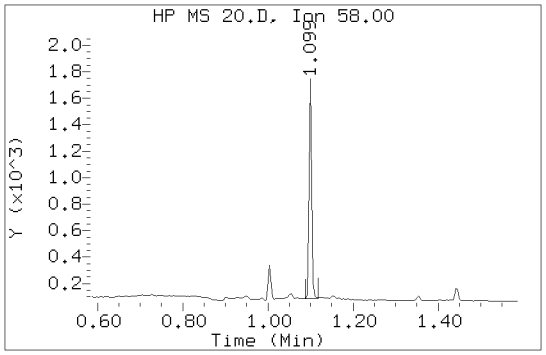
BEFORE

MASS
58
AREA
719
HEIGHT
1661
29-Jun-2023
16:21
ALSHS
Server



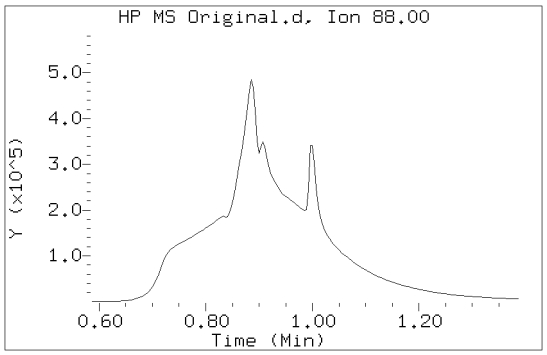
AFTER

MASS
58
AREA
719
HEIGHT
1661
29-Jun-2023
16:24
ALSHS
Se



BEFORE

MASS
88
AREA
1448650
HEIGHT
339718
29-Jun-2023
16:21
ALSHS
Server



AFTER

MASS
88
AREA
112576
HEIGHT
143720
29-Jun-2023
16:24
ALSHS
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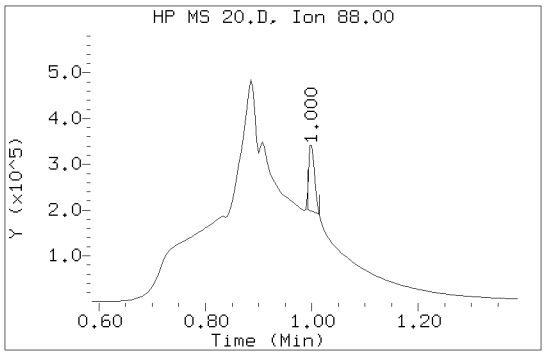


Data File: \\nahstws005\Target\chem\SV6.i\230629.b\21.D Page 1
Report Date: 29-Jun-2023 16:47

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230629.b\21.D
Lab Smp Id: HS23061712-07 Client Smp ID: HS23061712-07
Inj Date : 29-JUN-2023 16:24
Operator : LG Inst ID: SV6.i
Smp Info : HS23061712-07X10
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230629.b\DXSIM.m
Meth Date : 29-Jun-2023 10:28 jiayi.lu Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 21
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	10.000	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	2.637	2.637	(1.000)	2423	0.10000	(a)
* 45 Naphthalene-d8	136	3.702	3.702	(1.000)	8796	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.088	3.082	(0.834)	266	0.00995	0.09953(M)
* 86 Acenaphthene-d10	164	5.342	5.342	(1.000)	6361	0.10000	(QM)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.885)	582	0.00895	0.08947(M)
* 126 Phenanthrene-d10	188	6.765	6.765	(1.000)	8742	0.10000	(M)
* 182 Chrysene-d12	240	9.341	9.341	(1.000)	9609	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.346	8.351	(0.893)	607	0.00856	0.08562(M)
* 198 Perylene-d12	264	11.039	11.038	(1.000)	5189	0.10000	
1 1,4-Dioxane	58	1.095	1.084	(0.415)	1187	0.14438	1.444(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.

01202107

Data File: \\nahstws005\Target\chem\SV6.i\230629.b\21.D

Date : 29-JUN-2023 16:24

Client ID: HS23061712-07

Instrument: SV6.i

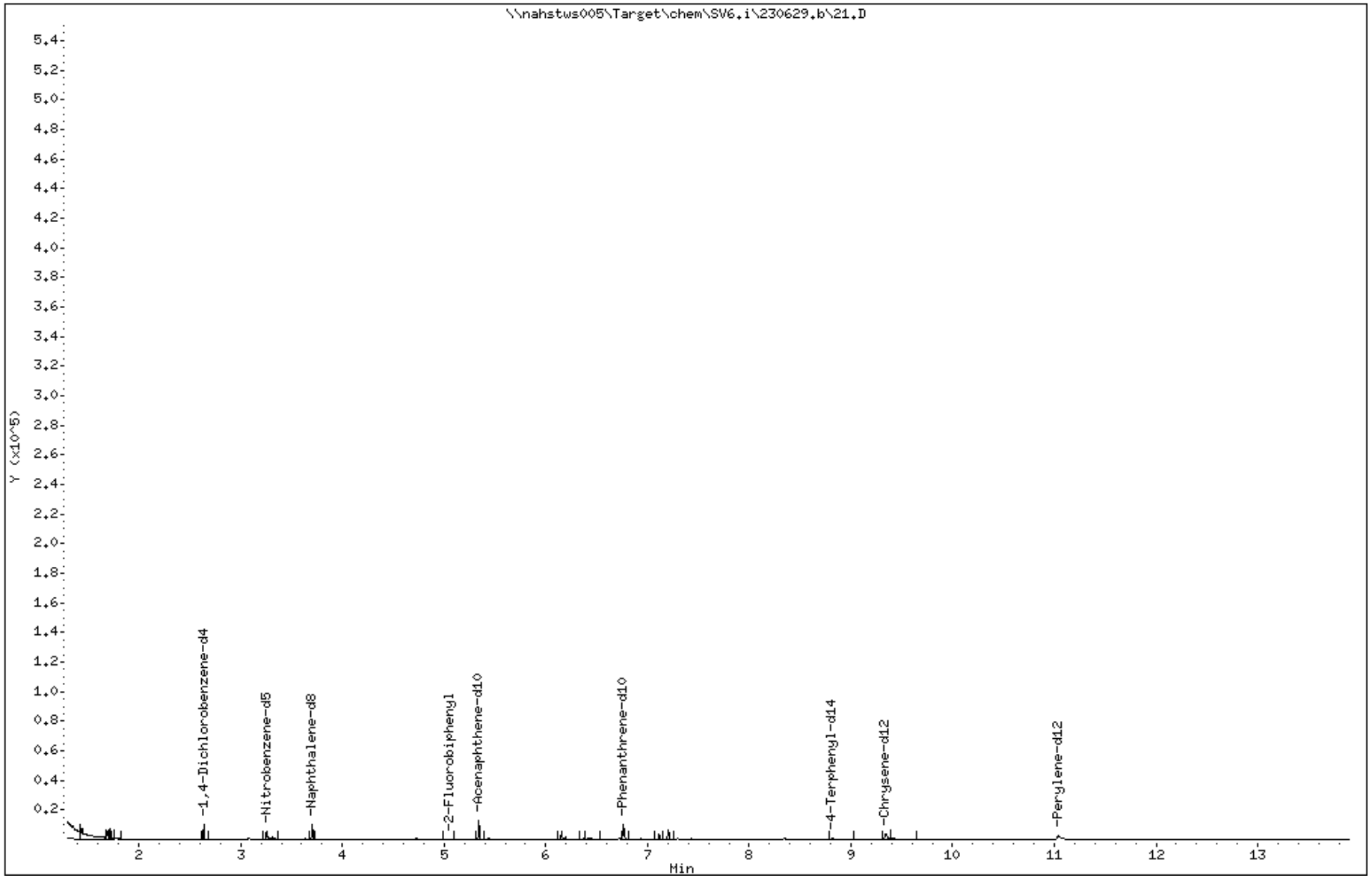
Sample Info: HS23061712-07X10

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\nahstws005\Target\chem\SV6.i\230629.b\21.D

Date : 29-JUN-2023 16:24

Client ID: HS23061712-07

Instrument: SV6.i

Sample Info: HS23061712-07X10

Purge Volume: 1000.0

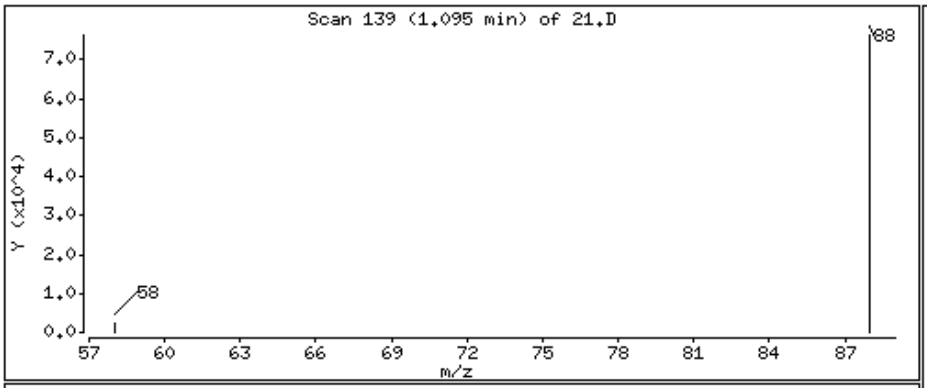
Operator: LG

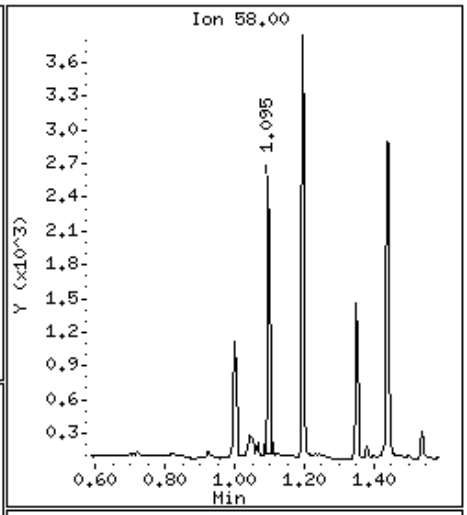
Column phase: RTX-5SIL MS

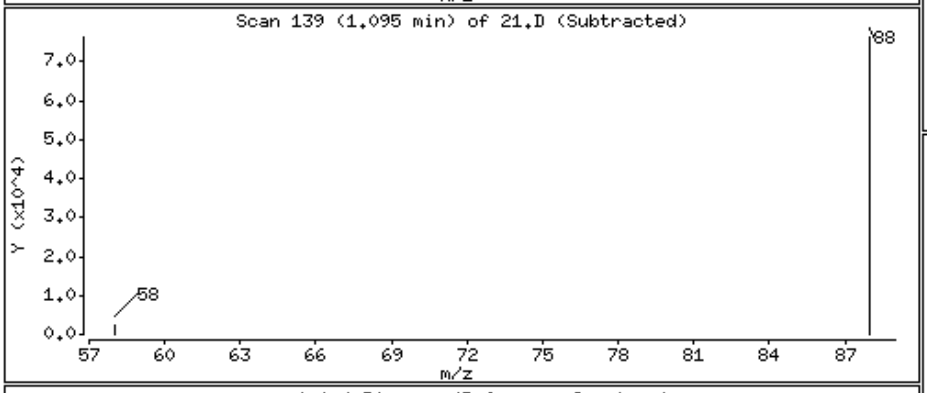
Column diameter: 0.28

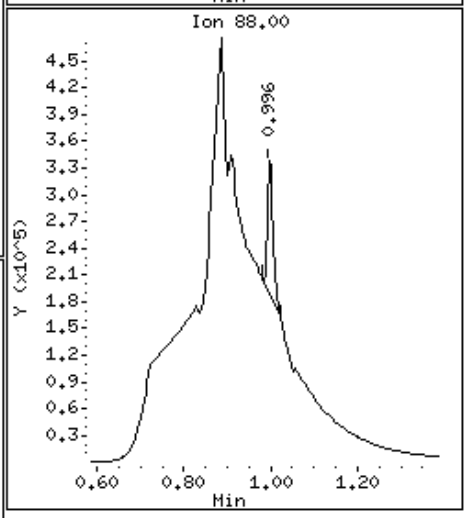
1 1,4-Dioxane

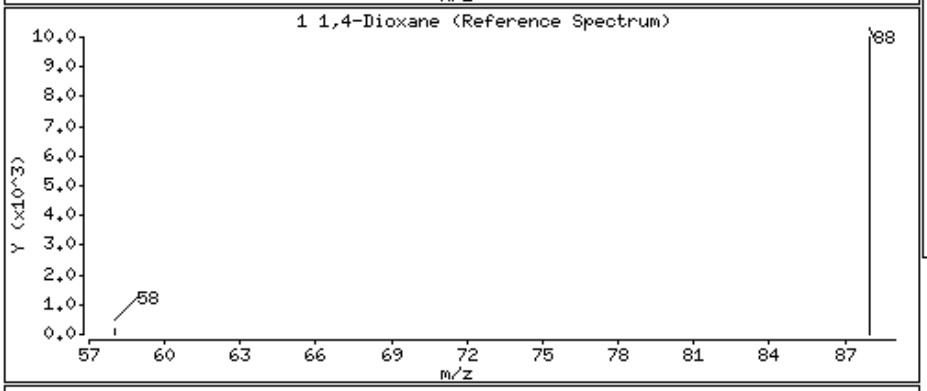
Concentration: 1.444 ug/L

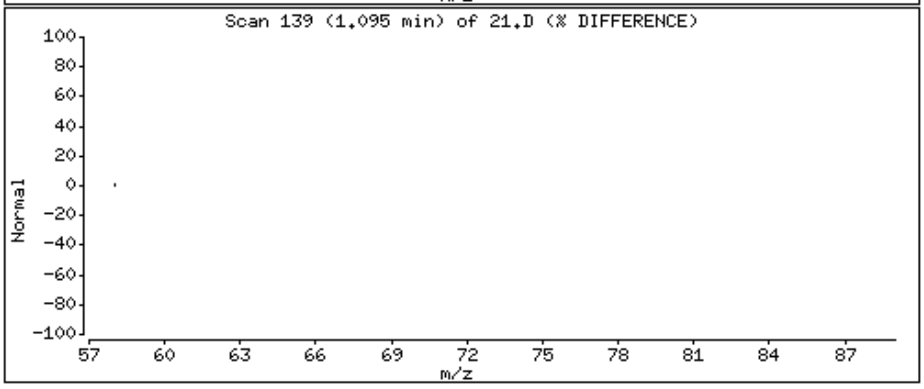










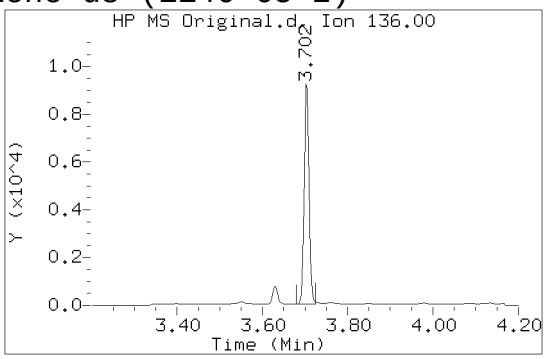


Data File : \\nahstws005\Target\chem\SV6.i\230629.b\21.D
Inj Date : 29-JUN-2023 16:24
InstruID : SV6.i
LabSampID : HS23061712-07

Naphthalene-d8 (1146-65-2)

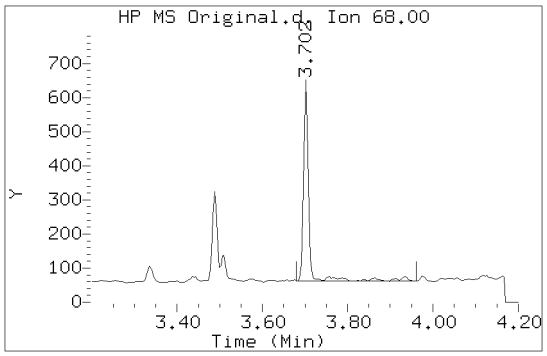
BEFORE

MASS
136
AREA
7482
HEIGHT
9227
29-Jun-2023
16:41
ALSHS
Server



BEFORE

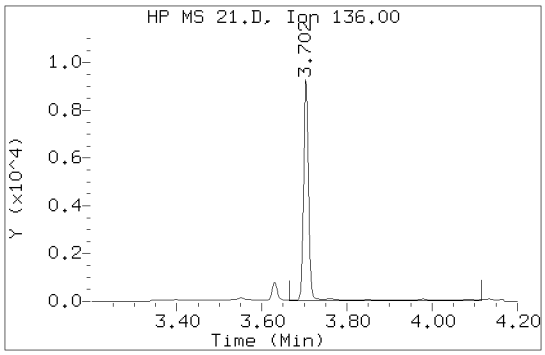
MASS
68
AREA
521
HEIGHT
590
29-Jun-2023
16:41
ALSHS
Server



Reason Code:

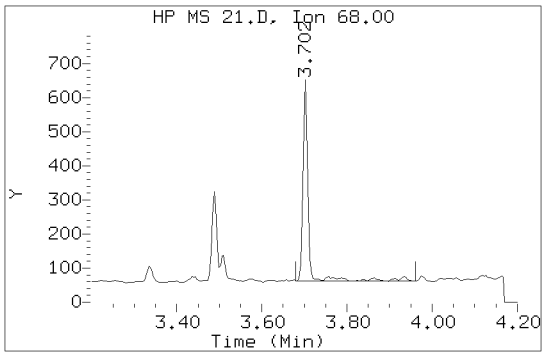
AFTER

MASS
136
AREA
8796
HEIGHT
9265
29-Jun-2023
16:47
ALSHS
Se



AFTER

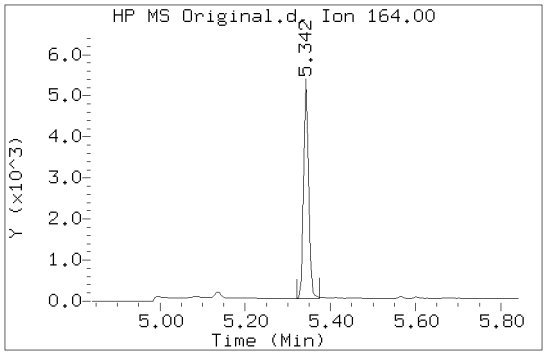
MASS
68
AREA
521
HEIGHT
590
29-Jun-2023
16:47
ALSHS
Se



Acenaphthene-d10 (15067-26-2)

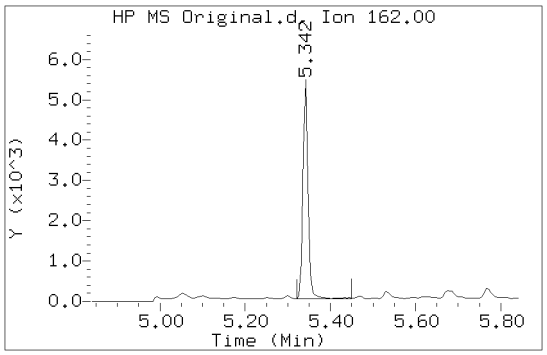
BEFORE

MASS
164
AREA
4366
HEIGHT
5342
29-Jun-2023
16:41
ALSHS
Server



BEFORE

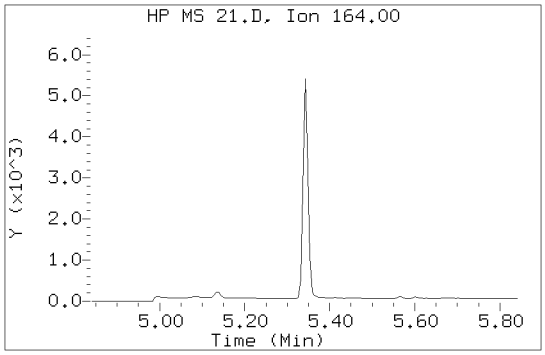
MASS
162
AREA
4572
HEIGHT
5435
29-Jun-2023
16:41
ALSHS
Server



Reason Code:

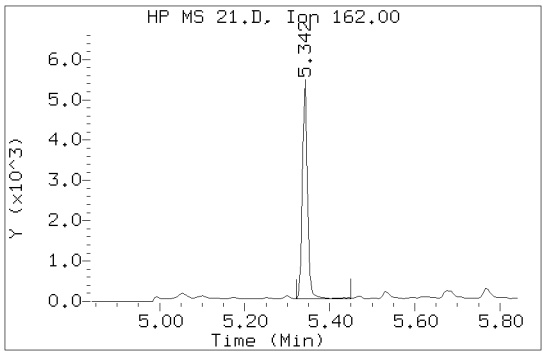
AFTER

MASS
164
AREA
6361
HEIGHT
5395
29-Jun-2023
16:47
ALSHS
Se



AFTER

MASS
162
AREA
4572
HEIGHT
5435
29-Jun-2023
16:47
ALSHS
Se



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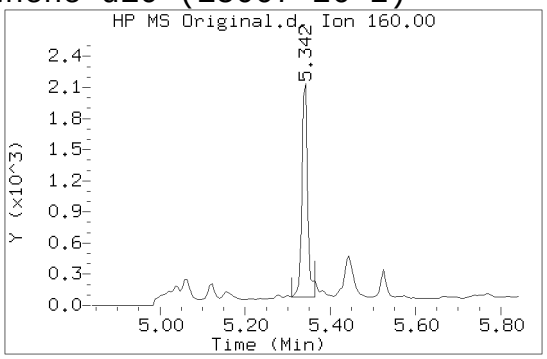
Inj Date : 29-JUN-2023 16:24
InstruID : SV6.i
LabSampID : HS23061712-07

Acenaphthene-d10 (15067-26-2)

Reason Code:

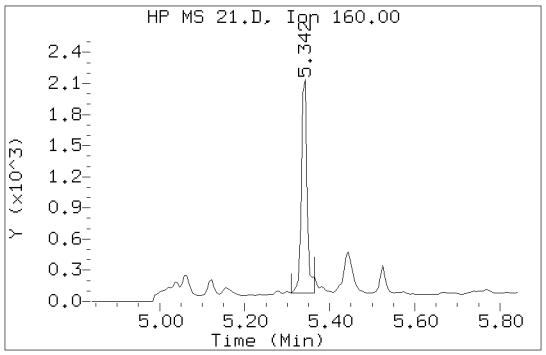
BEFORE

MASS
160
AREA
1977
HEIGHT
2054
29-Jun-2023
16:41
ALSHS
Server



AFTER

MASS
160
AREA
1977
HEIGHT
2054
29-Jun-2023
16:47
ALSHS
Se

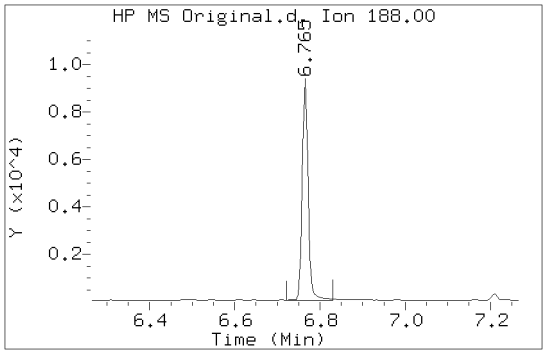


Phenanthrene-d10 (1517-22-2)

Reason Code:

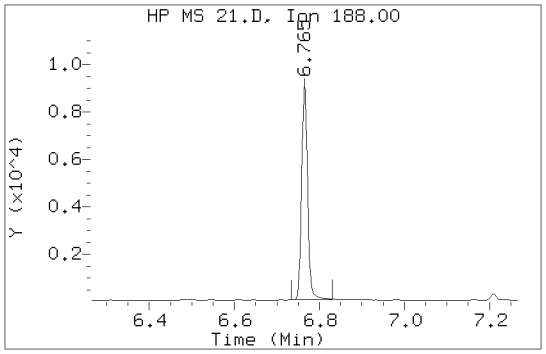
BEFORE

MASS
188
AREA
8804
HEIGHT
9339
29-Jun-2023
16:41
ALSHS
Server



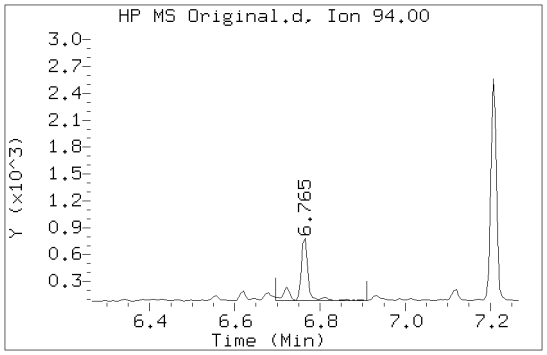
AFTER

MASS
188
AREA
8742
HEIGHT
9329
29-Jun-2023
16:47
ALSHS
Se



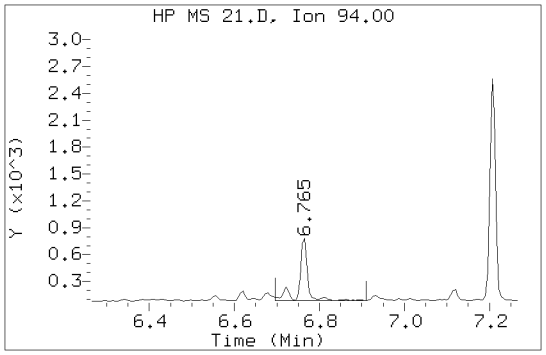
BEFORE

MASS
94
AREA
944
HEIGHT
696
29-Jun-2023
16:41
ALSHS
Server



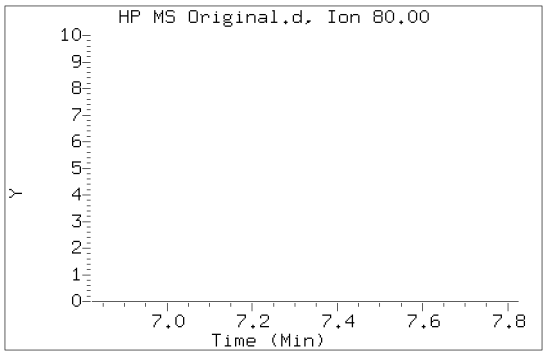
AFTER

MASS
94
AREA
944
HEIGHT
696
29-Jun-2023
16:47
ALSHS
Se



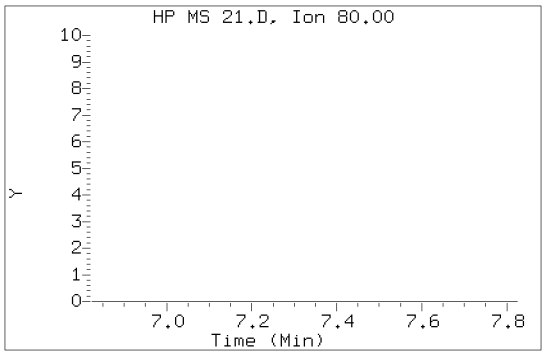
BEFORE

MASS
80
AREA
0
HEIGHT
0
29-Jun-2023
16:41
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
29-Jun-2023
16:47
ALSHS
Se



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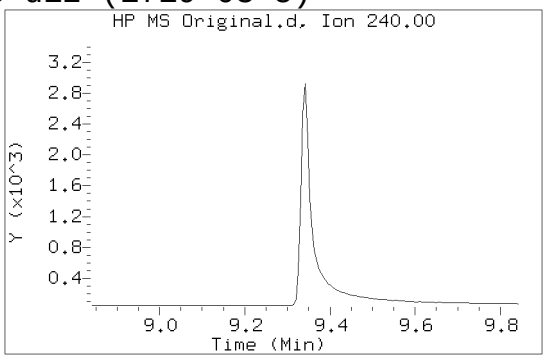
Inj Date : 29-JUN-2023 16:24
InstruID : SV6.i
LabSampID : HS23061712-07

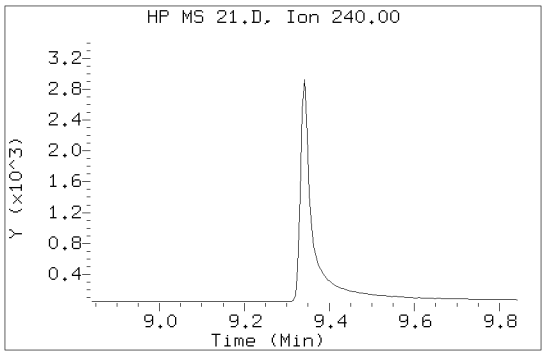
Chrysene-d12 (1719-03-5)

Reason Code:

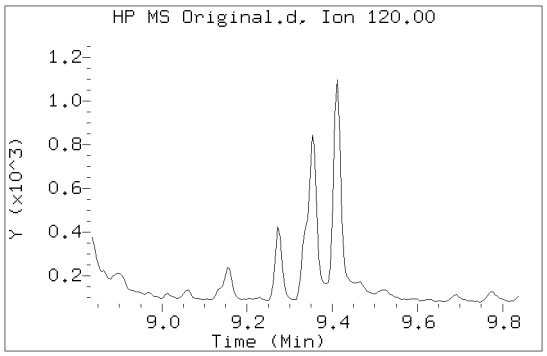
BEFORE
MASS
240
AREA
0
HEIGHT
0
29-Jun-2023
16:41
ALSHS
Server



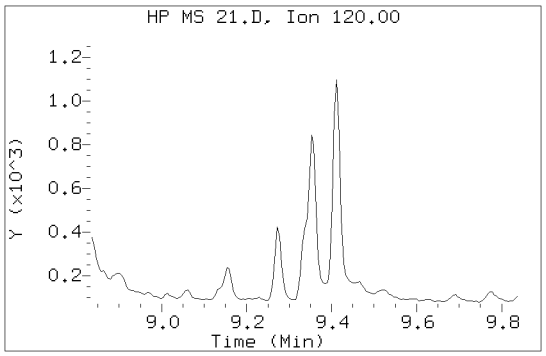
AFTER
MASS
240
AREA
9609
HEIGHT
2919
29-Jun-2023
16:47
ALSHS
Se



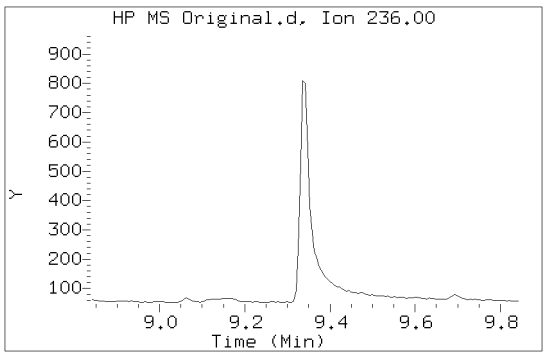
BEFORE
MASS
120
AREA
0
HEIGHT
0
29-Jun-2023
16:41
ALSHS
Server



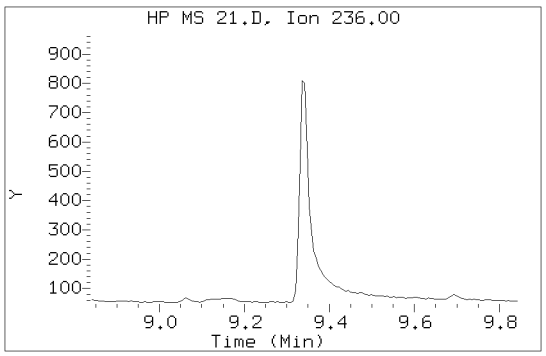
AFTER
MASS
120
AREA
0
HEIGHT
0
29-Jun-2023
16:47
ALSHS
Se



BEFORE
MASS
236
AREA
0
HEIGHT
0
29-Jun-2023
16:41
ALSHS
Server



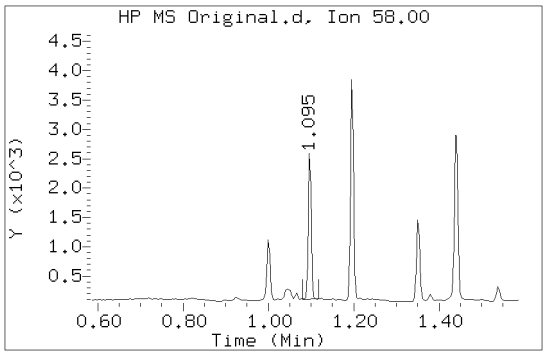
AFTER
MASS
236
AREA
0
HEIGHT
0
29-Jun-2023
16:47
ALSHS
Se



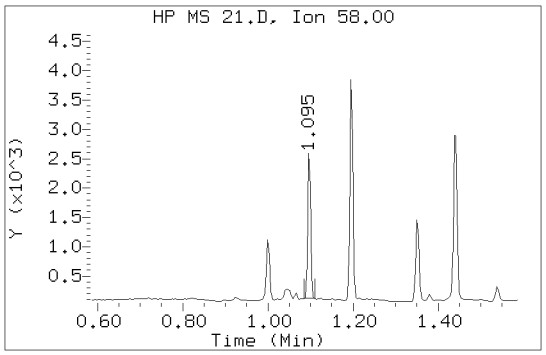
1,4-Dioxane ()

Reason Code:

BEFORE
MASS
58
AREA
1210
HEIGHT
2481
29-Jun-2023
16:41
ALSHS
Server



AFTER
MASS
58
AREA
1187
HEIGHT
2469
29-Jun-2023
16:47
ALSHS
Se



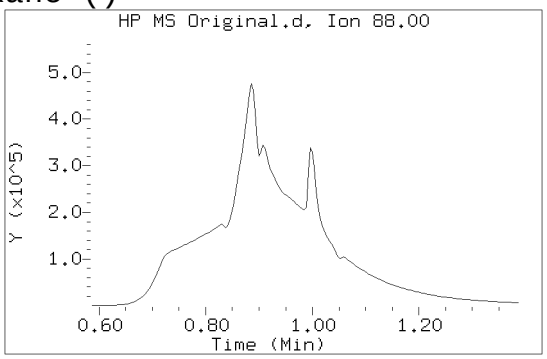
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\21.D
Inj Date : 29-JUN-2023 16:24
InstruID : SV6.i
LabSampID : HS23061712-07

1,4-Dioxane ()

Reason Code:

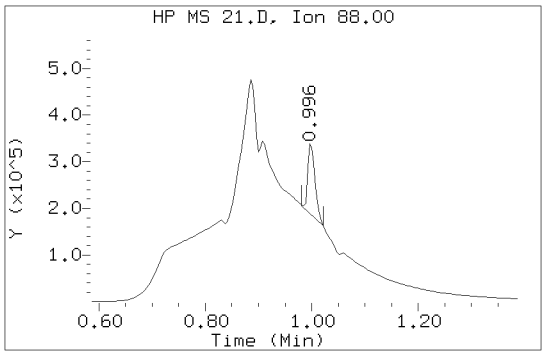
BEFORE

MASS
88
AREA
1480745
HEIGHT
337038
29-Jun-2023
16:41
ALSHS
Server



AFTER

MASS
88
AREA
143998
HEIGHT
148346
29-Jun-2023
16:47
ALSHS
Se

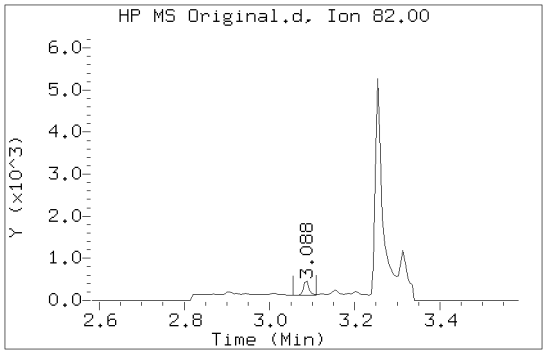


Nitrobenzene-d5 (4165-60-0)

Reason Code:

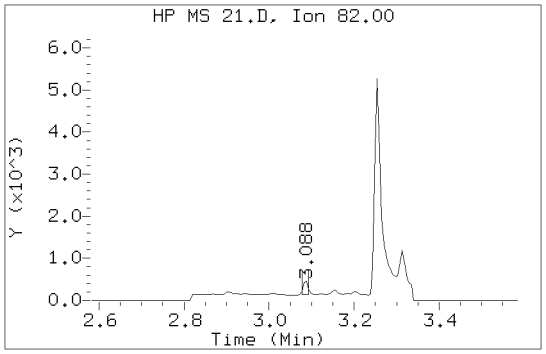
BEFORE

MASS
82
AREA
297
HEIGHT
334
29-Jun-2023
16:41
ALSHS
Server



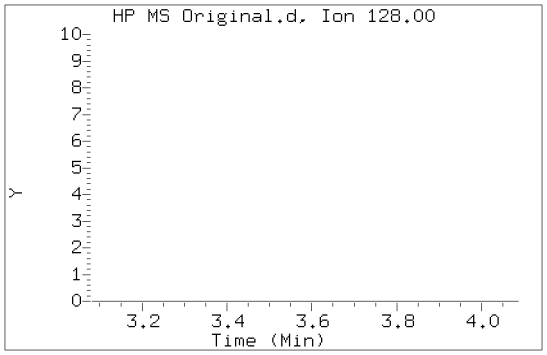
AFTER

MASS
82
AREA
266
HEIGHT
327
29-Jun-2023
16:47
ALSHS
Se



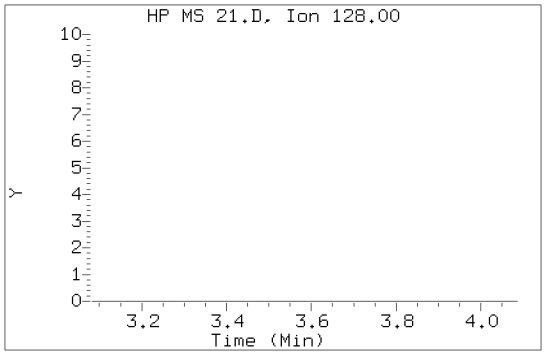
BEFORE

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
16:41
ALSHS
Server



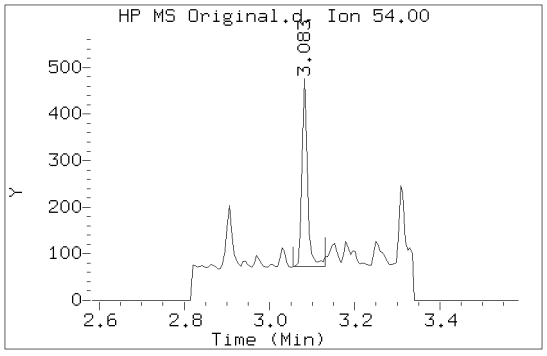
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
16:47
ALSHS
Se



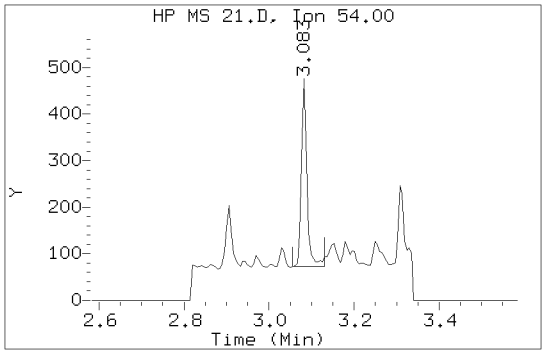
BEFORE

MASS
54
AREA
373
HEIGHT
403
29-Jun-2023
16:41
ALSHS
Server



AFTER

MASS
54
AREA
373
HEIGHT
403
29-Jun-2023
16:47
ALSHS
Se



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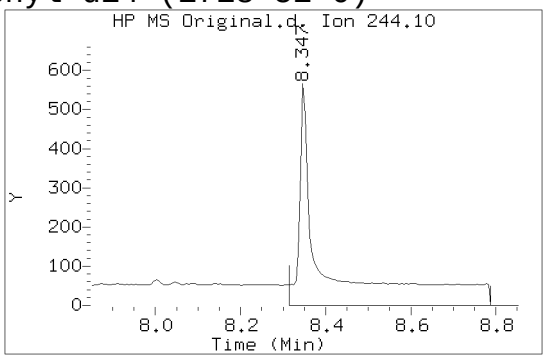
Inj Date : 29-JUN-2023 16:24
InstruID : SV6.i
LabSampID : HS23061712-07

4-Terphenyl-d14 (1718-51-0)

Reason Code:

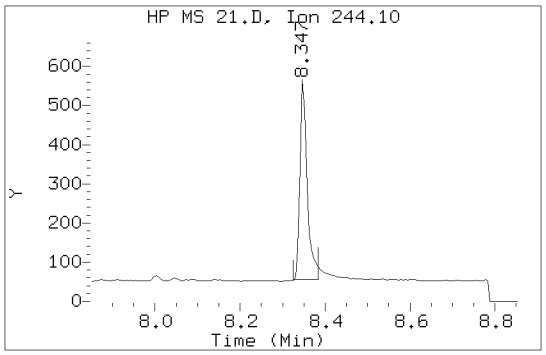
BEFORE

MASS
244.1
AREA
2202
HEIGHT
566
29-Jun-2023
16:41
ALSHS
Server



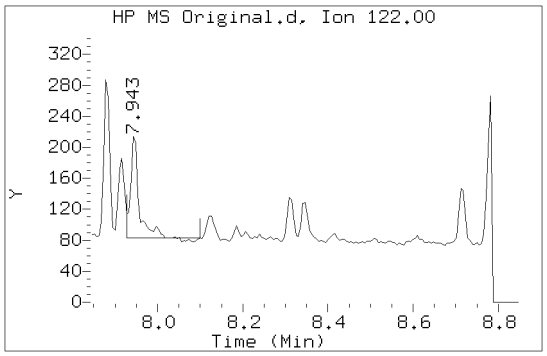
AFTER

MASS
244.1
AREA
607
HEIGHT
511
29-Jun-2023
16:47
ALSHS
Se



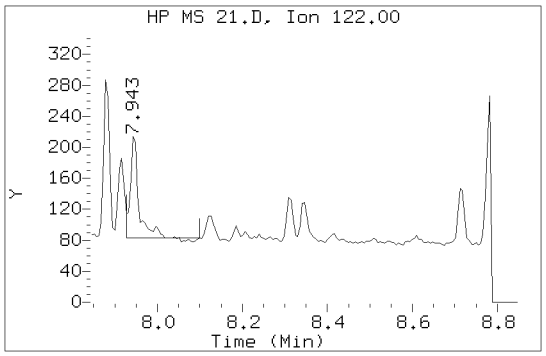
BEFORE

MASS
122
AREA
181
HEIGHT
131
29-Jun-2023
16:41
ALSHS
Server



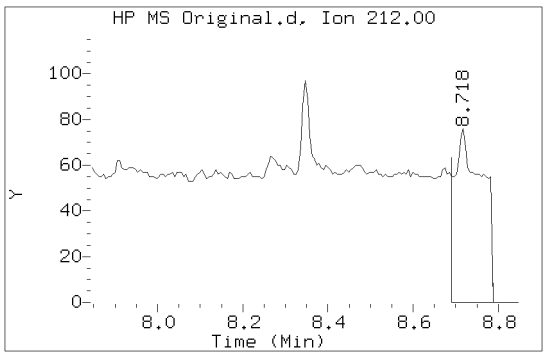
AFTER

MASS
122
AREA
181
HEIGHT
131
29-Jun-2023
16:47
ALSHS
Se



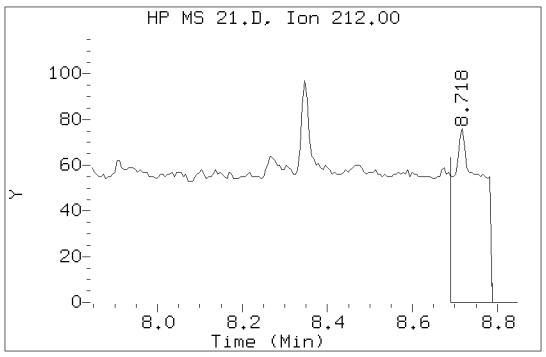
BEFORE

MASS
212
AREA
342
HEIGHT
76
29-Jun-2023
16:41
ALSHS
Server



AFTER

MASS
212
AREA
342
HEIGHT
76
29-Jun-2023
16:47
ALSHS
Se

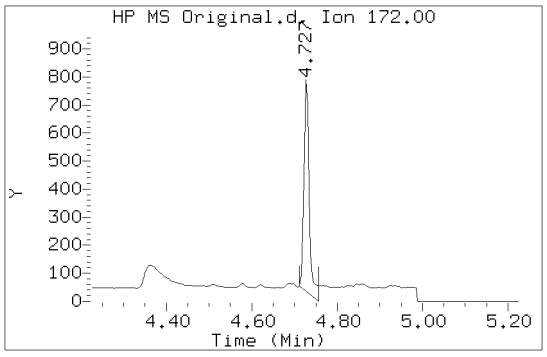


2-Fluorobiphenyl (321-60-8)

Reason Code:

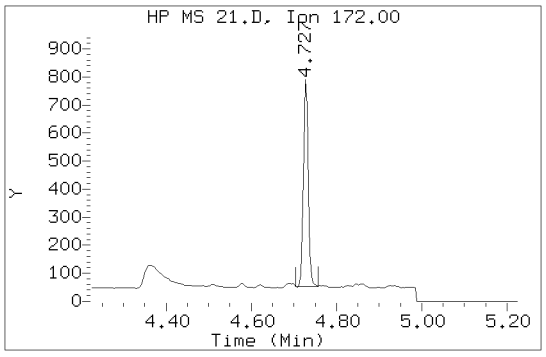
BEFORE

MASS
172
AREA
655
HEIGHT
753
29-Jun-2023
16:41
ALSHS
Server



AFTER

MASS
172
AREA
582
HEIGHT
737
29-Jun-2023
16:47
ALSHS
Se



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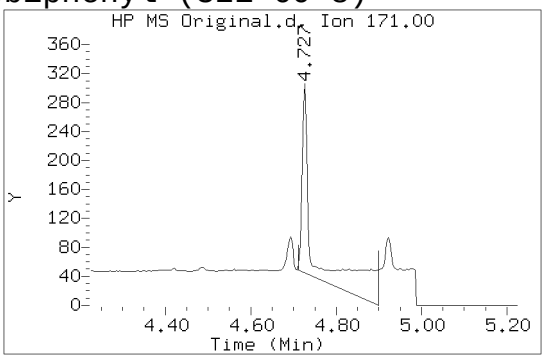
Inj Date : 29-JUN-2023 16:24
InstruID : SV6.i
LabSampID : HS23061712-07

2-Fluorobiphenyl (321-60-8)

Reason Code:

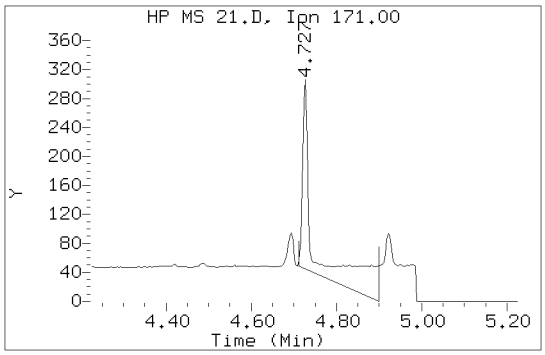
BEFORE

MASS
171
AREA
483
HEIGHT
260
29-Jun-2023
16:41
ALSHS
Server



AFTER

MASS
171
AREA
483
HEIGHT
260
29-Jun-2023
16:47
ALSHS
Se



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230629.b\22.D
Lab Smp Id: 14DXCCV-END Client Smp ID: 14DXCCV-END
Inj Date : 29-JUN-2023 16:42
Operator : LG Inst ID: SV6.i
Smp Info : 14DXCCV-END
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230629.b\DXSIM.m
Meth Date : 30-Jun-2023 13:07 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 22 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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	2.637	2.637	(1.000)	2952	0.10000	(a)
* 45 Naphthalene-d8	136	3.702	3.702	(1.000)	9513	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.082	3.082	(0.833)	2092	0.08000	0.07238(Q)
* 86 Acenaphthene-d10	164	5.347	5.347	(1.000)	5975	0.10000	
$ 69 2-Fluorobiphenyl	172	4.730	4.730	(0.885)	4843	0.08000	0.07926(M)
* 126 Phenanthrene-d10	188	6.770	6.770	(1.000)	10474	0.10000	
* 182 Chrysene-d12	240	9.347	9.347	(1.000)	7416	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.351	8.351	(0.894)	4567	0.08000	0.08347(M)
* 198 Perylene-d12	264	11.044	11.044	(1.000)	6630	0.10000	(M)
1 1,4-Dioxane	58	1.077	1.077	(0.408)	789	0.08000	0.07877(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.

01202116

Data File: \\nahstws005\Target\chem\SV6.i\230629.b\22.D

Date : 29-JUN-2023 16:42

Client ID: 14DXCCV-END

Instrument: SV6.i

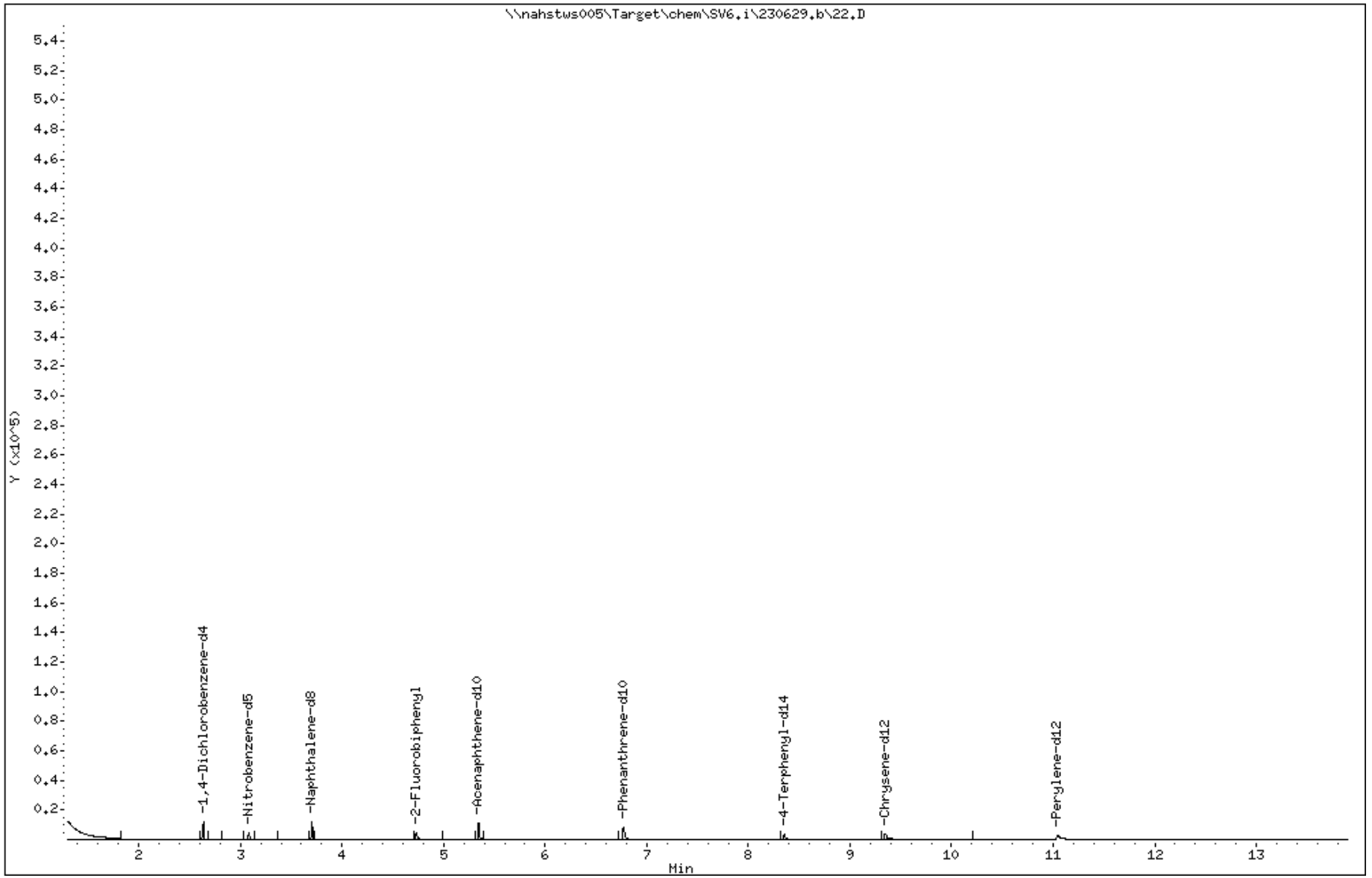
Sample Info: 14DXCCV-END

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



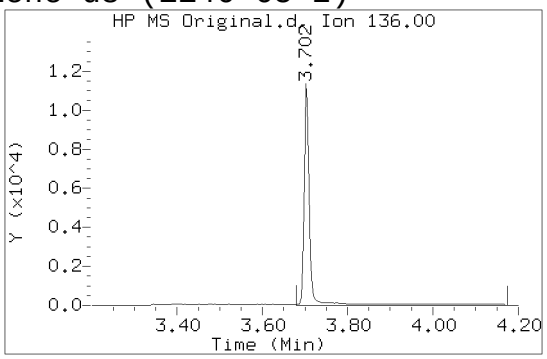
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\22.D
Inj Date : 29-JUN-2023 16:42
InstruID : SV6.i
LabSampID : 14DXCCV-END

Naphthalene-d8 (1146-65-2)

Reason Code:

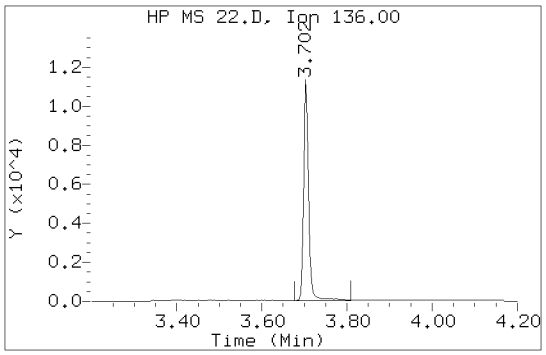
BEFORE

MASS
136
AREA
11032
HEIGHT
11363
29-Jun-2023
16:58
ALSHS
Server



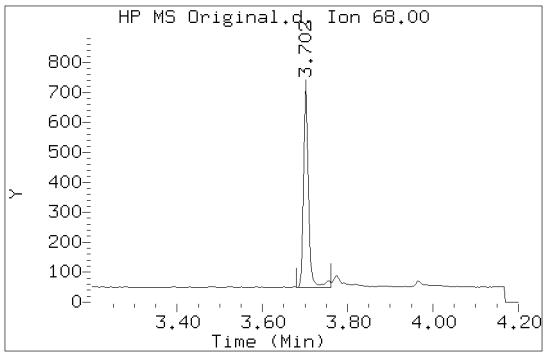
AFTER

MASS
136
AREA
9513
HEIGHT
11332
30-Jun-2023
13:07
ALSHS
Se



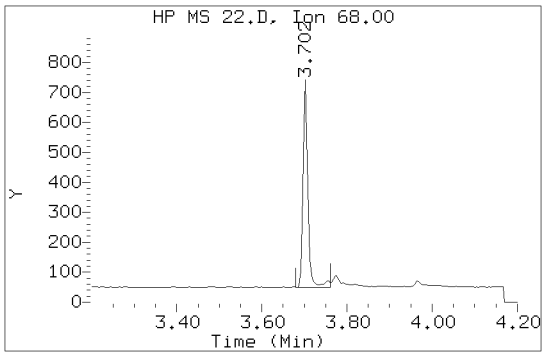
BEFORE

MASS
68
AREA
566
HEIGHT
692
29-Jun-2023
16:58
ALSHS
Server



AFTER

MASS
68
AREA
566
HEIGHT
692
30-Jun-2023
13:07
ALSHS
Se

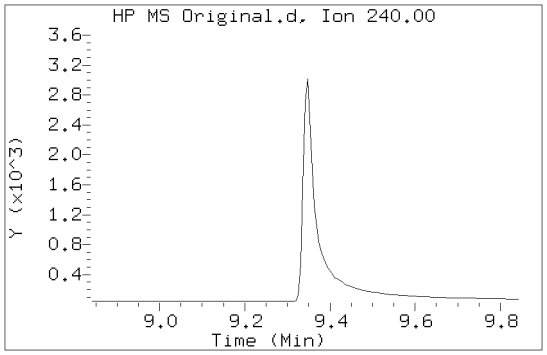


Chrysene-d12 (1719-03-5)

Reason Code:

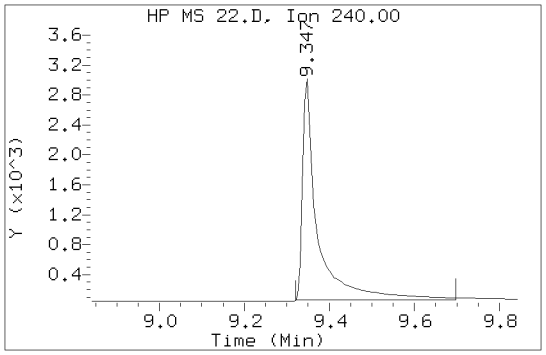
BEFORE

MASS
240
AREA
0
HEIGHT
0
29-Jun-2023
16:58
ALSHS
Server



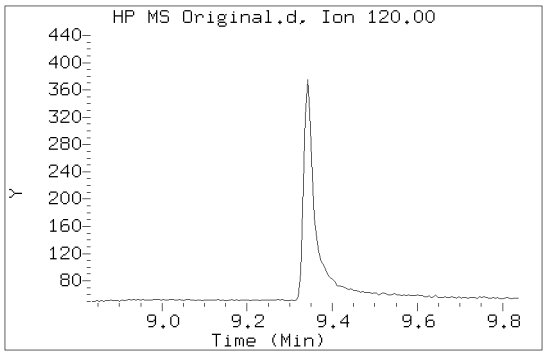
AFTER

MASS
240
AREA
7416
HEIGHT
2956
30-Jun-2023
13:07
ALSHS
Se



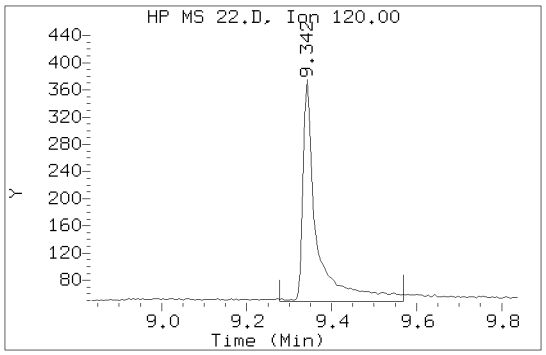
BEFORE

MASS
120
AREA
0
HEIGHT
0
29-Jun-2023
16:58
ALSHS
Server



AFTER

MASS
120
AREA
742
HEIGHT
326
30-Jun-2023
13:07
ALSHS
Se



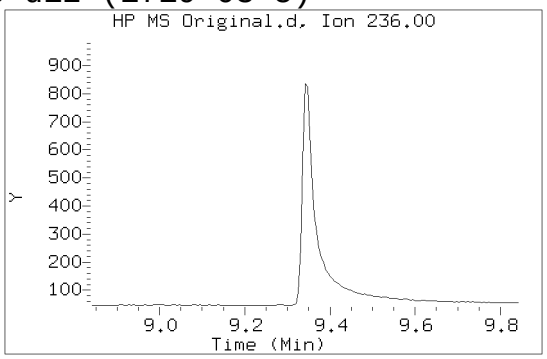
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\22.D
Inj Date : 29-JUN-2023 16:42
InstruID : SV6.i
LabSampID : 14DXCCV-END

Chrysene-d12 (1719-03-5)

Reason Code:

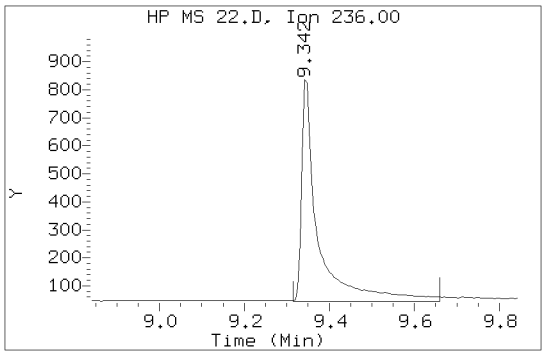
BEFORE

MASS
236
AREA
0
HEIGHT
0
29-Jun-2023
16:58
ALSHS
Server



AFTER

MASS
236
AREA
2111
HEIGHT
791
30-Jun-2023
13:07
ALSHS
Se

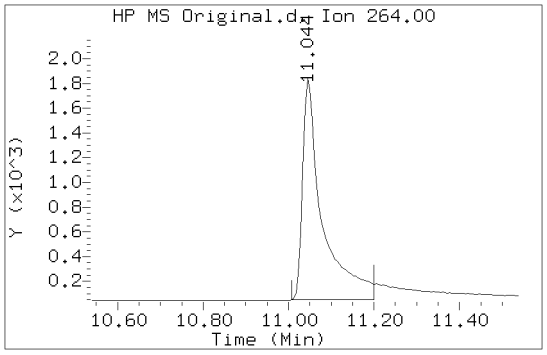


Perylene-d12 (1520-96-3)

Reason Code:

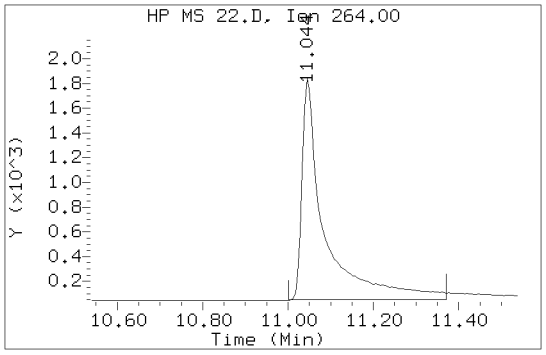
BEFORE

MASS
264
AREA
5738
HEIGHT
1787
29-Jun-2023
16:58
ALSHS
Server



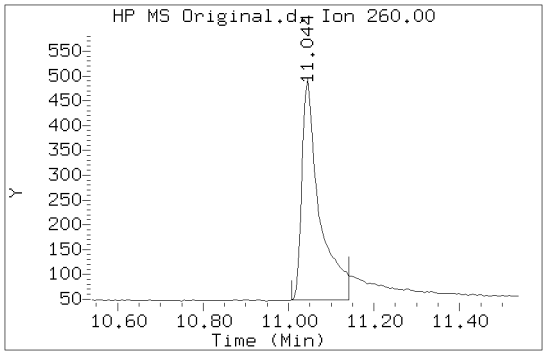
AFTER

MASS
264
AREA
6630
HEIGHT
1788
30-Jun-2023
13:07
ALSHS
Se



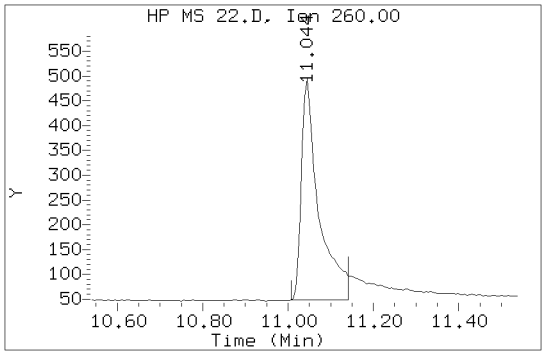
BEFORE

MASS
260
AREA
1268
HEIGHT
446
29-Jun-2023
16:58
ALSHS
Server



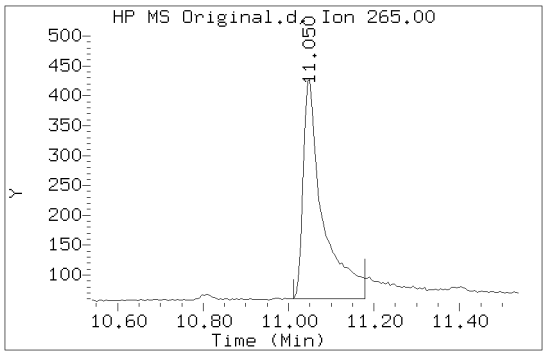
AFTER

MASS
260
AREA
1268
HEIGHT
446
30-Jun-2023
13:07
ALSHS
Se



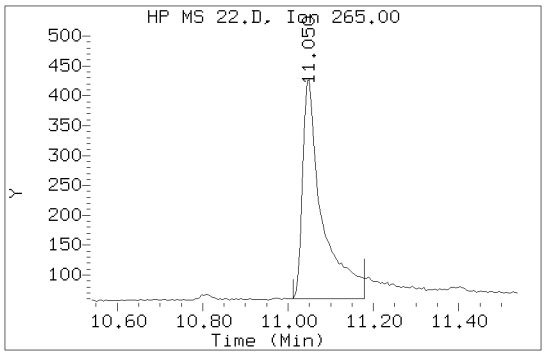
BEFORE

MASS
265
AREA
1170
HEIGHT
367
29-Jun-2023
16:58
ALSHS
Server



AFTER

MASS
265
AREA
1170
HEIGHT
367
30-Jun-2023
13:07
ALSHS
Se



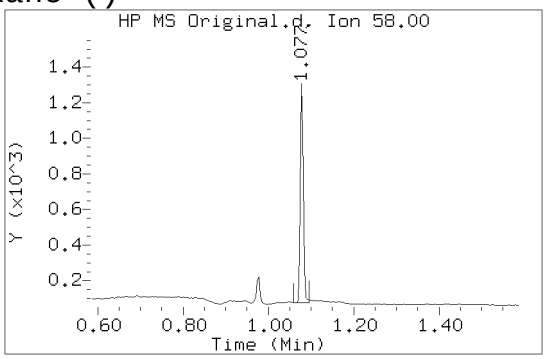
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\22.D
Inj Date : 29-JUN-2023 16:42
InstruID : SV6.i
LabSampID : 14DXCCV-END

1,4-Dioxane ()

Reason Code:

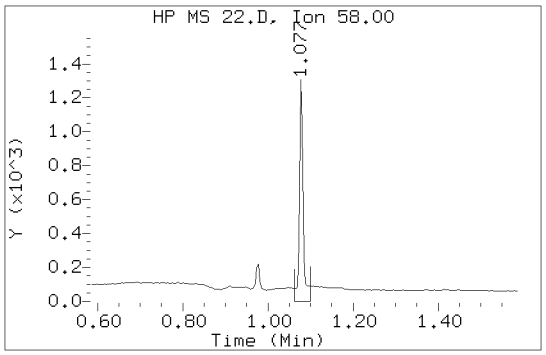
BEFORE

MASS
58
AREA
601
HEIGHT
1231
29-Jun-2023
16:58
ALSHS
Server



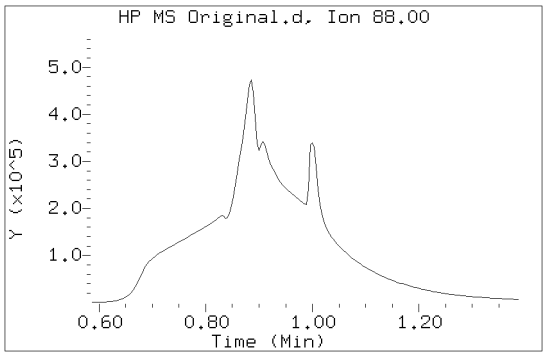
AFTER

MASS
58
AREA
789
HEIGHT
1307
30-Jun-2023
13:07
ALSHS
Se



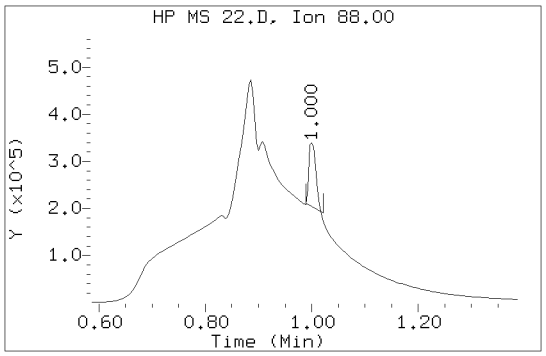
BEFORE

MASS
88
AREA
1554911
HEIGHT
338147
29-Jun-2023
16:58
ALSHS
Server



AFTER

MASS
88
AREA
119683
HEIGHT
135278
30-Jun-2023
13:07
ALSHS
Se

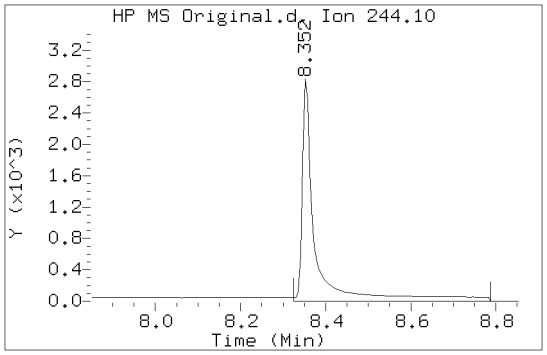


4-Terphenyl-d14 (1718-51-0)

Reason Code:

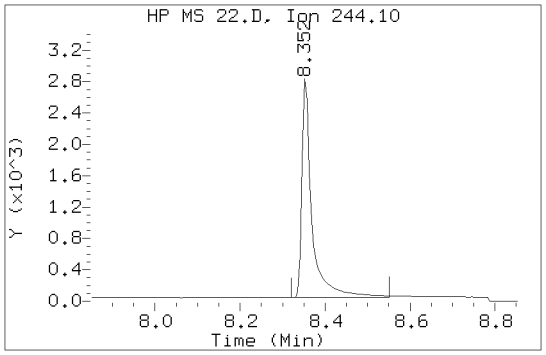
BEFORE

MASS
244.1
AREA
6016
HEIGHT
2835
29-Jun-2023
16:58
ALSHS
Server



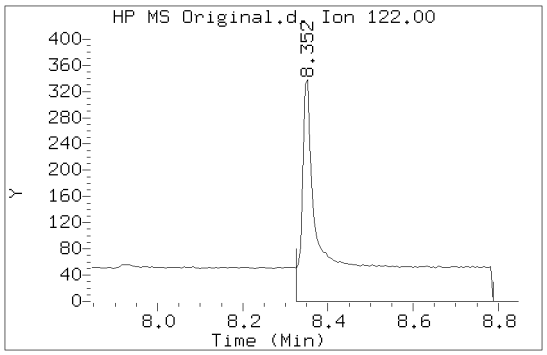
AFTER

MASS
244.1
AREA
4567
HEIGHT
2788
30-Jun-2023
13:07
ALSHS
Se



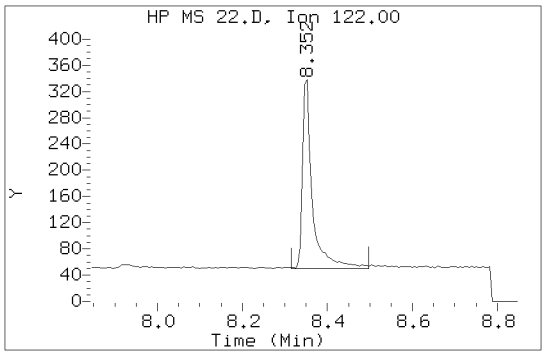
BEFORE

MASS
122
AREA
1905
HEIGHT
338
29-Jun-2023
16:58
ALSHS
Server



AFTER

MASS
122
AREA
467
HEIGHT
288
30-Jun-2023
13:07
ALSHS
Se



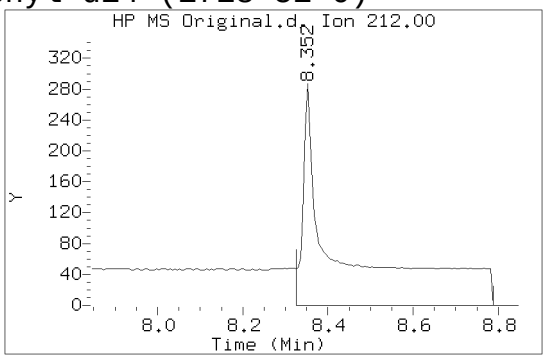
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\22.D
Inj Date : 29-JUN-2023 16:42
InstruID : SV6.i
LabSampID : 14DXCCV-END

4-Terphenyl-d14 (1718-51-0)

Reason Code:

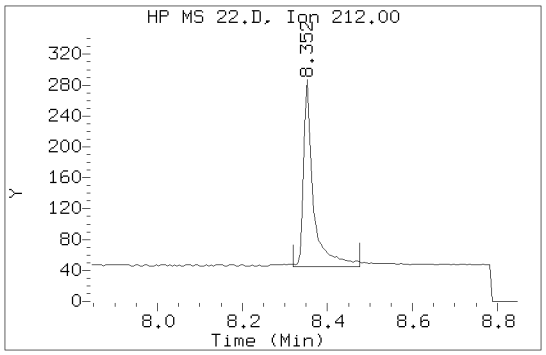
BEFORE

MASS
212
AREA
1692
HEIGHT
287
29-Jun-2023
16:58
ALSHS
Server



AFTER

MASS
212
AREA
387
HEIGHT
242
30-Jun-2023
13:07
ALSHS
Se

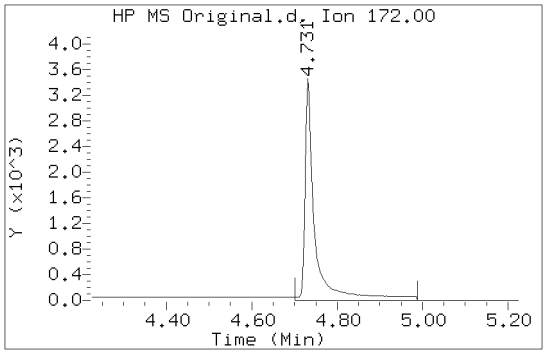


2-Fluorobiphenyl (321-60-8)

Reason Code:

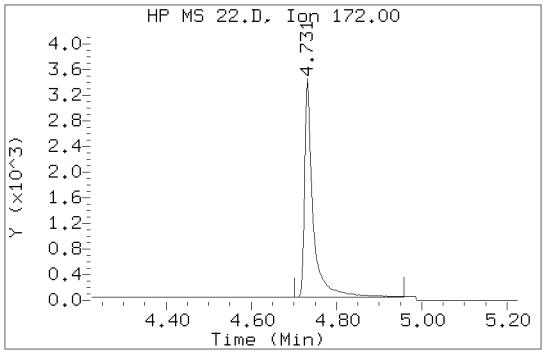
BEFORE

MASS
172
AREA
5637
HEIGHT
3458
29-Jun-2023
16:58
ALSHS
Server



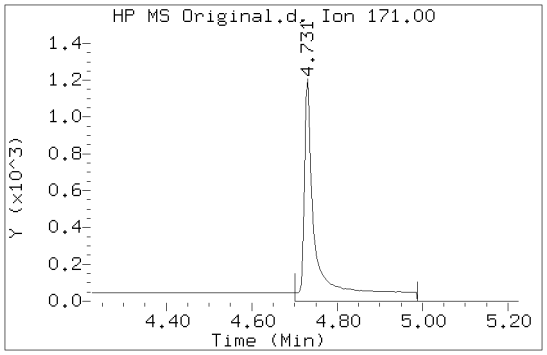
AFTER

MASS
172
AREA
4843
HEIGHT
3413
30-Jun-2023
13:07
ALSHS
Se



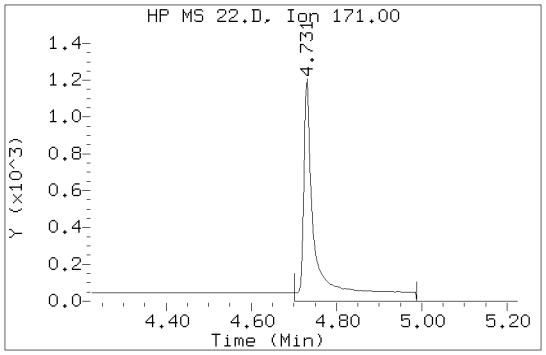
BEFORE

MASS
171
AREA
2434
HEIGHT
1207
29-Jun-2023
16:58
ALSHS
Server



AFTER

MASS
171
AREA
2434
HEIGHT
1207
30-Jun-2023
13:07
ALSHS
Se



HS23061712 - ME - HG_W_DODICP_W_DOD

ALS WO# HS23061712

ALS Houston, US

Date: 24-Jul-23

Form 11 - INTERNAL STANDARD ASSOCIATION

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

Instrument:ICPMS06

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: 24-Jul-23

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712
Start Date: 11-Jul-2023 End Date: 11-Jul-2023

Run ID:HG04_441015
Instrument:HG04
Method:SW7470A

Sample No.	D/F	Time	FileID	Analytes
ICCV 1	1	11-Jul-2023 12:37	_7419227	HG
ICV	1	11-Jul-2023 12:44	_7419228	HG
ICB	1	11-Jul-2023 12:46	_7419229	HG
CRA	1	11-Jul-2023 12:48	_7419230	HG
CCV 2	1	11-Jul-2023 12:52	_7419231	HG
CCB 1	1	11-Jul-2023 12:54	_7419232	HG
CCV 3	1	11-Jul-2023 13:16	HG04_441015 Raw Data_7419213	HG
CCB 2	1	11-Jul-2023 13:18	_7419214	HG
CCV 4	1	11-Jul-2023 13:41	_7419225	HG
CCB 3	1	11-Jul-2023 13:43	_7419226	HG
MBLK-197408	1	11-Jul-2023 13:47	_7419235	HG
LCS-197408	1	11-Jul-2023 13:49	_7419236	HG
18CPTMW10DW_062223	1	11-Jul-2023 13:51	_7419237	HG
18CPTMW10DW_062223_a	1	11-Jul-2023 13:52	_7419238	HG
18CPTMW01SW_062223	1	11-Jul-2023 13:54	_7419239	HG
18CPTMW01DW_062323	1	11-Jul-2023 13:56	_7419240	HG
MW1_062323	1	11-Jul-2023 13:57	_7419241	HG
MW1_062323MS	1	11-Jul-2023 13:59	_7419242	HG
MW1_062323MSD	1	11-Jul-2023 14:01	_7419243	HG
CCV 5	1	11-Jul-2023 14:05	_7419245	HG
CCB 4	1	11-Jul-2023 14:06	_7419246	HG
CCV 6	1	11-Jul-2023 14:34	_7419257	HG
CCB 5	1	11-Jul-2023 14:36	_7419258	HG
ZZZZZZMS	1	11-Jul-2023 14:45	_7419262	HG
ZZZZZZMSD	1	11-Jul-2023 14:47	_7419263	HG
CCV 7	1	11-Jul-2023 14:57	_7419269	HG
CCB 6	1	11-Jul-2023 14:59	_7419270	HG
CCV 8	1	11-Jul-2023 15:21	_7419281	HG
CCB 7	1	11-Jul-2023 15:23	_7419282	HG
CCV 9	1	11-Jul-2023 15:43	_7419292	HG
CCB 8	1	11-Jul-2023 15:45	_7419293	HG
CCV 10	1	11-Jul-2023 15:59	_7419747	HG
CCB 9	1	11-Jul-2023 16:00	_7419748	HG
CCV 11	1	11-Jul-2023 16:30	_7419759	HG
CCB 10	1	11-Jul-2023 16:32	_7419760	HG
CCV 12	1	11-Jul-2023 16:53	_7419771	HG
CCB 11	1	11-Jul-2023 16:55	_7419772	HG
CCV 13	1	11-Jul-2023 17:01	_7419781	HG
CCB 12	1	11-Jul-2023 17:03	_7419782	HG

ALS Houston, US

Date: 24-Jul-23

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712
Start Date: 07-Jul-2023 End Date: 07-Jul-2023

Run ID:ICPMS06_440735
Instrument:ICPMS06
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS06_440735_Tune	1	07-Jul-2023 00:00	ICPMS06_440735_Tune_1	
CAL BLK	1	07-Jul-2023 11:02	015CALB.d_7406350	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	07-Jul-2023 11:04	016CALS.d_7406351	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	07-Jul-2023 11:06	017CALS.d_7406352	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
10/50/100	1	07-Jul-2023 11:08	018CALS.d_7406353	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	07-Jul-2023 11:10	019CALS.d_7406354	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	07-Jul-2023 11:12	020CALS.d_7406355	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICV	1	07-Jul-2023 11:18	022_ICV.d_7406357	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV2	1	07-Jul-2023 11:22	024LCV2.d_7406359	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV5	1	07-Jul-2023 11:24	025LCV5.d_7406360	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICB	1	07-Jul-2023 11:26	026_ICB.d_7406361	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	07-Jul-2023 11:34	028ICSA.d_7406363	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSAB	1	07-Jul-2023 11:36	029ICSB.d_7406364	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	07-Jul-2023 16:51	146_CCV.d_7407789	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	07-Jul-2023 16:52	147_CCB.d_7407790	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
MBLK-197198	1	07-Jul-2023 16:55	148SMPL.d_7407791	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LCS-197198	1	07-Jul-2023 16:57	149SMPL.d_7407792	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI SB SE V ZN
MW1_062323	1	07-Jul-2023 16:59	150SMPL.d_7407793	AG AL AS BA BE CA CD CO CR CU FE K MG MN NI PB SB SE TL V ZN
MW1_062323SD	5	07-Jul-2023 17:01	151SMPL.d_7407794	AG AL AS BA BE CA CD CO CR CU FE K MG MN NI PB SB SE TL V ZN
MW1_062323MS	1	07-Jul-2023 17:03	152SMPL.d_7407795	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI SB SE V ZN
MW1_062323MSD	1	07-Jul-2023 17:05	153SMPL.d_7407796	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
MW1_062323PDS	1	07-Jul-2023 17:07	154SMPL.d_7407797	AG AL AS BA BE CA CD CO CR CU FE K MG MN NI PB SB SE TL V ZN
CCV 2	1	07-Jul-2023 17:09	155_CCV.d_7407798	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	07-Jul-2023 17:11	156_CCB.d_7407799	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
18CPTMW10DW_062223	1	07-Jul-2023 17:39	166SMPL.d_7407809	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	07-Jul-2023 17:41	167_CCV.d_7407810	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	07-Jul-2023 17:43	168_CCB.d_7407811	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
18CPTMW10DW_062223_a	1	07-Jul-2023 17:47	170SMPL.d_7407885	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
18CPTMW01SW_062223	1	07-Jul-2023 17:49	171SMPL.d_7407886	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
18CPTMW01DW_062323	1	07-Jul-2023 17:51	172SMPL.d_7407887	AG AL AS BA BE CA CD CO CR CU FE K MG MN NI PB SB SE TL V ZN
MW1_062323MS	1	07-Jul-2023 18:09	175SMPL.d_7407889	PB TL
CCV 4	1	07-Jul-2023 18:17	179_CCV.d_7407890	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: 24-Jul-23

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712
Start Date: 07-Jul-2023 End Date: 07-Jul-2023

Run ID:ICPMS06_440735
Instrument:ICPMS06
Method:

Sample No.	D/F	Time	FileID	Analytes
CCB 4	1	07-Jul-2023 18:19	180_CCB.d_7407891	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 5	1	07-Jul-2023 18:24	182_CCV.d_7407893	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 6	1	07-Jul-2023 18:26	183_CCV.d_7407894	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LCS-197198	1	07-Jul-2023 18:28	184SMPL.d_7407895	PB TL
MW1_062323	20	07-Jul-2023 18:32	186SMPL.d_7407897	NA
MW1_062323SD	100	07-Jul-2023 18:34	187SMPL.d_7407898	NA
MW1_062323PDS	20	07-Jul-2023 18:36	188SMPL.d_7407899	NA
18CPTMW01DW_062323	20	07-Jul-2023 18:44	192SMPL.d_7407903	NA
CCV 7	1	07-Jul-2023 18:46	193_CCV.d_7407904	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	07-Jul-2023 18:48	194_CCB.d_7407905	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: 24-Jul-23

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

Run ID: HG04_441015
Instrument: HG04
Method: SW7470A

ICCV1	Date: 11-Jul-2023 12:37		Seq: 7419227	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.07	101	90-110	

ICV	Date: 11-Jul-2023 12:44		Seq: 7419228	ICV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.13	103	90-110	

CCV2	Date: 11-Jul-2023 12:52		Seq: 7419231	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.14	103	90-110	

CCV3	Date: 11-Jul-2023 13:16		Seq: 7419213	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.12	102	90-110	

CCV4	Date: 11-Jul-2023 13:41		Seq: 7419225	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.15	103	90-110	

CCV5	Date: 11-Jul-2023 14:05		Seq: 7419245	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.87	97	90-110	

CCV6	Date: 11-Jul-2023 14:34		Seq: 7419257	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.1	102	90-110	

CCV7	Date: 11-Jul-2023 14:57		Seq: 7419269	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.03	101	90-110	

CCV8	Date: 11-Jul-2023 15:21		Seq: 7419281	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.1	102	90-110	

CCV9	Date: 11-Jul-2023 15:43		Seq: 7419292	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.97	99	90-110	

CCV10	Date: 11-Jul-2023 15:59		Seq: 7419747	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.1	102	90-110	

CCV11	Date: 11-Jul-2023 16:30		Seq: 7419759	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.02	100	90-110	

CCV12	Date: 11-Jul-2023 16:53		Seq: 7419771	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.03	101	90-110	

CCV13	Date: 11-Jul-2023 17:01		Seq: 7419781	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.06	101	90-110	

ALS Houston, US

Date: 24-Jul-23

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

Run ID: ICPMS06_440735
Instrument: ICPMS06
Method: SW6020A

ICV | Date: 07-Jul-2023 11:18 | Seq: 7406357 | ICV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	95.928	96	90-110	
Antimony	100	95.85	96	90-110	
Arsenic	100	96.027	96	90-110	
Barium	100	97.543	98	90-110	
Beryllium	100	99.339	99	90-110	
Cadmium	100	97.941	98	90-110	
Calcium	10000	9845.519	99	90-110	
Chromium	100	96.572	97	90-110	
Cobalt	100	95.214	95	90-110	
Copper	100	95.769	96	90-110	
Iron	10000	9757.482	98	90-110	
Lead	100	97.048	97	90-110	
Magnesium	10000	9692.126	97	90-110	
Manganese	100	98.222	98	90-110	
Nickel	100	98.251	98	90-110	
Potassium	10000	9775.407	98	90-110	
Selenium	100	94.041	94	90-110	
Silver	100	100.798	101	90-110	
Sodium	10000	9600.424	96	90-110	
Thallium	100	99.697	100	90-110	
Vanadium	100	96.536	97	90-110	
Zinc	100	98.521	99	90-110	

CCV1 | Date: 07-Jul-2023 16:51 | Seq: 7407789 | CCV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	96.967	97	90-110	
Antimony	100	93.554	94	90-110	
Arsenic	100	96.259	96	90-110	
Barium	100	97.146	97	90-110	
Beryllium	100	100.306	100	90-110	
Cadmium	100	96.943	97	90-110	
Calcium	10000	10024.796	100	90-110	
Chromium	100	96.647	97	90-110	
Cobalt	100	94.194	94	90-110	
Copper	100	95.241	95	90-110	
Iron	10000	9933.997	99	90-110	
Lead	100	97.123	97	90-110	
Magnesium	10000	9949.105	100	90-110	
Manganese	100	97.648	98	90-110	
Nickel	100	96.737	97	90-110	
Potassium	10000	9992.364	100	90-110	
Selenium	100	96.132	96	90-110	
Silver	100	97.479	98	90-110	
Sodium	10000	9842.163	98	90-110	
Thallium	100	104.859	105	90-110	
Vanadium	100	96.032	96	90-110	
Zinc	100	97.806	98	90-110	

CCV2 | Date: 07-Jul-2023 17:09 | Seq: 7407798 | CCV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	96.486	97	90-110	
Antimony	100	94.88	95	90-110	
Arsenic	100	94.863	95	90-110	
Barium	100	96.72	97	90-110	
Beryllium	100	98.015	98	90-110	

ALS Houston, US Date: 24-Jul-23

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

Run ID: ICPMS06_440735
Instrument: ICPMS06
Method: SW6020A

CCV2 Date: 07-Jul-2023 17:09 Seq: 7407798 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Cadmium	100	96.67	97	90-110	
Calcium	10000	9911.426	99	90-110	
Chromium	100	95.431	95	90-110	
Cobalt	100	94.073	94	90-110	
Copper	100	94.639	95	90-110	
Iron	10000	9743.424	97	90-110	
Lead	100	95.099	95	90-110	
Magnesium	10000	9860.753	99	90-110	
Manganese	100	98.051	98	90-110	
Nickel	100	95.948	96	90-110	
Potassium	10000	9854.869	99	90-110	
Selenium	100	96.268	96	90-110	
Silver	100	98.173	98	90-110	
Sodium	10000	9610.457	96	90-110	
Thallium	100	101.923	102	90-110	
Vanadium	100	95.312	95	90-110	
Zinc	100	96.096	96	90-110	

CCV3 Date: 07-Jul-2023 17:41 Seq: 7407810 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	96.082	96	90-110	
Antimony	100	94.381	94	90-110	
Arsenic	100	95.525	96	90-110	
Barium	100	96.312	96	90-110	
Beryllium	100	93.775	94	90-110	
Cadmium	100	95.693	96	90-110	
Calcium	10000	9905.042	99	90-110	
Chromium	100	95.844	96	90-110	
Cobalt	100	93.748	94	90-110	
Copper	100	94.585	95	90-110	
Iron	10000	9696.028	97	90-110	
Lead	100	94.464	95	90-110	
Magnesium	10000	9789.42	98	90-110	
Manganese	100	97.164	97	90-110	
Nickel	100	96.989	97	90-110	
Potassium	10000	9893.658	99	90-110	
Selenium	100	96.295	96	90-110	
Silver	100	99.577	100	90-110	
Sodium	10000	9766.464	98	90-110	
Thallium	100	102.411	102	90-110	
Vanadium	100	95.574	96	90-110	
Zinc	100	96.182	96	90-110	

CCV4 Date: 07-Jul-2023 18:17 Seq: 7407890 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	154.727	155	90-110	S
Antimony	100	75.521	76	90-110	S
Arsenic	100	118.911	119	90-110	S
Barium	100	96.775	97	90-110	
Beryllium	100	98.513	99	90-110	
Cadmium	100	97.962	98	90-110	
Calcium	10000	87836.149	878	90-110	S
Chromium	100	144.273	144	90-110	S
Cobalt	100	80.013	80	90-110	S
Copper	100	105.454	105	90-110	

ALS Houston, US Date: 24-Jul-23

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

Run ID: ICPMS06_440735
Instrument: ICPMS06
Method: SW6020A

CCV4 Date: 07-Jul-2023 18:17 Seq: 7407890 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Iron	10000	8681.63	87	90-110	S
Lead	100	97.643	98	90-110	
Magnesium	10000	34834.915	348	90-110	S
Manganese	100	93.109	93	90-110	
Nickel	100	92.05	92	90-110	
Potassium	10000	69075.191	691	90-110	S
Selenium	100	609.697	610	90-110	S
Silver	100	98.823	99	90-110	
Sodium	10000	111559.603	1120	90-110	S
Thallium	100	98.951	99	90-110	
Vanadium	100	83.099	83	90-110	S
Zinc	100	66.786	67	90-110	S

CCV5 Date: 07-Jul-2023 18:24 Seq: 7407893 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	97.309	97	90-110	
Antimony	100	95.06	95	90-110	
Arsenic	100	92.38	92	90-110	
Barium	100	94.656	95	90-110	
Beryllium	100	95.36	95	90-110	
Cadmium	100	96.008	96	90-110	
Calcium	10000	9720.91	97	90-110	
Chromium	100	93.631	94	90-110	
Cobalt	100	91.237	91	90-110	
Copper	100	93.291	93	90-110	
Iron	10000	9468.719	95	90-110	
Lead	100	94.516	95	90-110	
Magnesium	10000	9581.234	96	90-110	
Manganese	100	95.1	95	90-110	
Nickel	100	94.899	95	90-110	
Potassium	10000	9627.413	96	90-110	
Selenium	100	94.187	94	90-110	
Silver	100	97.636	98	90-110	
Sodium	10000	9492.555	95	90-110	
Thallium	100	94.775	95	90-110	
Vanadium	100	93.469	94	90-110	
Zinc	100	93.922	94	90-110	

CCV6 Date: 07-Jul-2023 18:26 Seq: 7407894 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	97.84	98	90-110	
Antimony	100	94.709	95	90-110	
Arsenic	100	94.172	94	90-110	
Barium	100	94.451	95	90-110	
Beryllium	100	95.589	96	90-110	
Cadmium	100	95.251	95	90-110	
Calcium	10000	9795.53	98	90-110	
Chromium	100	95.1	95	90-110	
Cobalt	100	93.122	93	90-110	
Copper	100	93.956	94	90-110	
Iron	10000	9558.84	96	90-110	
Lead	100	94.956	95	90-110	
Magnesium	10000	9725.778	97	90-110	
Manganese	100	96.071	96	90-110	
Nickel	100	95.413	95	90-110	

ALS Houston, US

Date: 24-Jul-23

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

Run ID: ICPMS06_440735
Instrument: ICPMS06
Method: SW6020A

CCV6 Date: 07-Jul-2023 18:26 Seq: 7407894 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Potassium	10000	9586.907	96	90-110	
Selenium	100	94.961	95	90-110	
Silver	100	97.389	97	90-110	
Sodium	10000	9486.701	95	90-110	
Thallium	100	97.218	97	90-110	
Vanadium	100	94.202	94	90-110	
Zinc	100	95.54	96	90-110	

CCV7 Date: 07-Jul-2023 18:46 Seq: 7407904 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	98.052	98	90-110	
Antimony	100	95.655	96	90-110	
Arsenic	100	94.22	94	90-110	
Barium	100	96.256	96	90-110	
Beryllium	100	98.245	98	90-110	
Cadmium	100	95.629	96	90-110	
Calcium	10000	9885.781	99	90-110	
Chromium	100	94.781	95	90-110	
Cobalt	100	93.674	94	90-110	
Copper	100	94.182	94	90-110	
Iron	10000	9645.921	97	90-110	
Lead	100	96.017	96	90-110	
Magnesium	10000	9705.563	97	90-110	
Manganese	100	97.002	97	90-110	
Nickel	100	95.074	95	90-110	
Potassium	10000	9625.947	96	90-110	
Selenium	100	95.087	95	90-110	
Silver	100	96.816	97	90-110	
Sodium	10000	9566.744	96	90-110	
Thallium	100	97.186	97	90-110	
Vanadium	100	94.518	95	90-110	
Zinc	100	96.421	96	90-110	

ALS Houston, US Date: 24-Jul-23

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

Run ID: HG04_441015
Instrument: HG04
Method: SW7470A

ICB	Date: 11-Jul-2023 12:46	Seq: 7419229	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Mercury	0.2	0.03	0.2	U

CCB1	Date: 11-Jul-2023 12:54	Seq: 7419232	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Mercury	0.2	0.03	0.2	U

CCB2	Date: 11-Jul-2023 13:18	Seq: 7419214	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Mercury	0.2	0.03	0.2	U

CCB3	Date: 11-Jul-2023 13:43	Seq: 7419226	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Mercury	0.2	0.03	0.2	U

MBLK-197408	Date: 11-Jul-2023 13:47	Seq: 7419235	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Mercury	0.2	0.03	0.2	U

CCB4	Date: 11-Jul-2023 14:06	Seq: 7419246	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Mercury	0.2	0.03	0.2	U

CCB5	Date: 11-Jul-2023 14:36	Seq: 7419258	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Mercury	0.2	0.03	0.2	U

CCB6	Date: 11-Jul-2023 14:59	Seq: 7419270	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Mercury	0.2	0.03	0.2	U

CCB7	Date: 11-Jul-2023 15:23	Seq: 7419282	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Mercury	0.2	0.03	0.2	U

CCB8	Date: 11-Jul-2023 15:45	Seq: 7419293	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Mercury	0.2	0.03	0.2	U

CCB9	Date: 11-Jul-2023 16:00	Seq: 7419748	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Mercury	0.2	0.03	0.2	U

CCB10	Date: 11-Jul-2023 16:32	Seq: 7419760	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Mercury	0.2	0.03	0.2	U

CCB11	Date: 11-Jul-2023 16:55	Seq: 7419772	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Mercury	0.2	0.03	0.2	U

CCB12	Date: 11-Jul-2023 17:03	Seq: 7419782	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Mercury	0.2	0.03	0.2	U

ALS Houston, US

Date: 24-Jul-23

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

Run ID: ICPMS06_440735
Instrument: ICPMS06
Method: SW6020A

ICB	Date: 07-Jul-2023 11:26		Seq: 7406361	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	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	0.746	0.7	5	J	
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: 07-Jul-2023 16:52		Seq: 7407790	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
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	4	0.4	4	U	
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	22.18	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

MBLK-197198	Date: 07-Jul-2023 16:55		Seq: 7407791	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	

ALS Houston, US Date: 24-Jul-23

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

Run ID: ICPMS06_440735
Instrument: ICPMS06
Method: SW6020A

MBLK-197198	Date: 07-Jul-2023 16:55		Seq: 7407791	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
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	0.737	0.7	5	J	
Nickel	5	0.6	5	U	
Potassium	200	18	200	U	
Selenium	5	1.1	5	U	
Silver	5	0.2	5	U	
Sodium	26.11	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	5	2	5	U	

CCB2	Date: 07-Jul-2023 17:11		Seq: 7407799	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	0.422	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	4	0.4	4	U	
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	19.59	18	200	J	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	40.23	14	200	J	
Thallium	0.238	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB3	Date: 07-Jul-2023 17:43		Seq: 7407811	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
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	4	0.4	4	U	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	

ALS Houston, US

Date: 24-Jul-23

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

Run ID: ICPMS06_440735
Instrument: ICPMS06
Method: SW6020A

CCB3	Date: 07-Jul-2023 17:43		Seq: 7407811	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	36.07	18	200	J	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	75.66	14	200	J	
Thallium	0.231	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB4	Date: 07-Jul-2023 18:19		Seq: 7407891	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
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	4	0.4	4	U	
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	17.55	14	200	J	
Thallium	0.599	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB5	Date: 07-Jul-2023 18:48		Seq: 7407905	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
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	4	0.4	4	U	
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: 24-Jul-23

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

Run ID: ICPMS06_440735
Instrument: ICPMS06
Method: SW6020A

CCB5 | Date: 07-Jul-2023 18:48 | Seq: 7407905 | 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	200	14	200	U
Thallium	0.805	0.2	2	J
Vanadium	5	0.6	5	U
Zinc	4	2	4	U

ALS Houston, US

Date: 24-Jul-23

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

Run ID:ICPMS06_440735
Instrument:ICPMS06
Method:SW6020A

ICSA	Date: 07-Jul-2023 11:34	Seq: 7406363	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	90970	91.0	
Antimony		0.248	0	
Arsenic		0.305	0	
Barium		0.611	0	
Beryllium		0	0	
Cadmium		0.344	0	
Calcium	100000	95450	95.4	
Chromium		1.563	0	
Cobalt		0.516	0	
Copper		0.153	0	
Iron	100000	98720	98.7	
Lead		0.158	0	
Magnesium	100000	98790	98.8	
Manganese		1.062	0	
Nickel		0.874	0	
Potassium	100000	99550	99.6	
Selenium		-0.158	0	
Silver		0.156	0	
Sodium	100000	97060	97.1	
Thallium		0.014	0	
Vanadium		0.174	0	
Zinc		2.591	0	

ICSAB	Date: 07-Jul-2023 11:36	Seq: 7406364	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	90290	89.8	
Antimony	100	98.35	98.4	
Arsenic	100	98.97	99.0	
Barium	100	100.3	100	
Beryllium	100	99.92	99.9	
Cadmium	100	98.91	98.9	
Calcium	110000	103400	94.0	
Chromium	100	99.43	99.4	
Cobalt	100	96.62	96.6	
Copper	100	95.98	96.0	
Iron	110000	108100	98.2	
Lead	100	101.2	101	
Magnesium	110000	107800	98.0	
Manganese	100	99.86	99.9	
Nickel	100	96.7	96.7	
Potassium	110000	108100	98.2	
Selenium	100	97.5	97.5	
Silver	100	98.18	98.2	
Sodium	110000	106700	97.0	
Thallium	100	100.3	100	
Vanadium	100	98.73	98.7	
Zinc	100	100.2	100	

ALS Houston, US Date: 24-Jul-23

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

Date Analyzed: 11-Jul-2023 14:01
Date Extracted: 11-Jul-2023 08:00
Units: ug/L

Matrix Spike: HS23061712-08MS
Client Sample ID: MW1_062323
Analysis Method: SW7470A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Mercury	0.2000	5.060	5.000	101	4.790	5.000	95.5	82-119	5.48	20

Matrix Spike: HS23061825-05MS
Client Sample ID:
Analysis Method: SW7470A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Mercury	0.2000	5.190	5.000	104	4.980	5.000	99.4	82-119	4.13	20

ALS Houston, US Date: 24-Jul-23

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

Date Analyzed: 07-Jul-2023 17:05
Date Extracted: 06-Jul-2023 14:00
Units: ug/L

Matrix Spike: HS23061712-08MS
Client Sample ID: MW1_062323
Analysis Method: SW6020A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aluminum	5.422	95.09	100.0	89.7	96.07	100.0	90.7	84-117	1.03	20
Antimony	5.000	45.05	50.00	89.9	45.92	50.00	91.6	85-117	1.91	20
Arsenic	5.000	45.42	50.00	90.5	46.24	50.00	92.2	84-116	1.79	20
Barium	493.7	517.8	50.00	48.1	533.1	50.00	78.8	86-114	2.92	20
Beryllium	2.000	47.78	50.00	95.6	47.02	50.00	94.0	83-121	1.61	20
Cadmium	2.000	44.69	50.00	89.1	46.00	50.00	91.8	87-115	2.90	20
Calcium	24200	28510	5000	86.1	29100	5000	97.9	87-118	2.05	20
Chromium	21.75	65.21	50.00	86.9	65.80	50.00	88.1	85-116	0.893	20
Cobalt	18.69	60.97	50.00	84.6	61.14	50.00	84.9	86-115	0.280	20
Copper	1.373	44.22	50.00	85.7	45.03	50.00	87.3	85-118	1.82	20
Iron	923.8	5463	5000	90.8	5518	5000	91.9	87-118	1.02	20
Lead	5.000	43.80	50.00	87.6	44.84	50.00	89.6	88-115	2.34	20
Magnesium	20720	25040	5000	86.3	25170	5000	88.9	83-118	0.508	20
Manganese	670.7	686.7	50.00	32.0	694.5	50.00	47.6	87-115	1.13	20
Nickel	1357	1381	50.00	49.1	1389	50.00	64.4	85-117	0.552	20
Potassium	2144	6671	5000	90.5	6734	5000	91.8	87-115	0.936	20
Selenium	5.000	44.58	50.00	89.3	45.70	50.00	91.5	80-120	2.47	20
Silver	5.000	43.85	50.00	87.7	44.09	50.00	88.2	85-116	0.539	20
Sodium	194000	195600	5000	31.6	197300	5000	67.0	85-117	0.902	20
Thallium	0.6360	40.61	50.00	80.0	42.40	50.00	83.5	82-116	4.31	20
Vanadium	5.000	44.48	50.00	88.7	44.68	50.00	89.1	86-115	0.437	20
Zinc	5.000	46.51	50.00	89.2	47.47	50.00	91.2	83-119	2.04	20

ALS Houston, US

Date: 24-Jul-23

Form 5B - Post Digest Sample Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

Date Analyzed: 07-Jul-2023 17:07
Date Extracted: 06-Jul-2023 14:00
Units: ug/L

Lab Sample ID: HS23061712-08PDS
Client Sample ID: MW1_062323

Analysis Method: SW6020A

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Aluminum	5.422	101.2	100	96	80-120
Antimony	0	90.21	100	90	80-120
Arsenic	0	95.31	100	95	80-120
Barium	493.7	586.3	100	93	80-120
Beryllium	0	97.68	100	98	80-120
Cadmium	0	96.95	100	97	80-120
Calcium	24200	33270	10000	91	80-120
Chromium	21.75	113.1	100	91	80-120
Cobalt	18.69	111.6	100	93	80-120
Copper	1.373	91.21	100	90	80-120
Iron	923.8	10480	10000	96	80-120
Lead	0	92.66	100	93	80-120
Magnesium	20720	30570	10000	99	80-120
Manganese	670.7	746.1	100	75	80-120
Nickel	1357	1422	100	65	80-120
Potassium	2144	11870	10000	97	80-120
Selenium	0	95.44	100	96	80-120
Silver	0	96.28	100	96	80-120
Thallium	0.636	103.7	100	103	80-120
Vanadium	0	92.73	100	93	80-120
Zinc	0	95.99	100	94	80-120
Sodium	190400	377800	200000	94	80-120

ALS Houston, US Date: 24-Jul-23

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

Date Analyzed: 11-Jul-2023 13:49
Date Extracted: 11-Jul-2023 08:00
Units: ug/L

Lab Sample ID: LCS-197408 Analysis Method: SW7470A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Mercury	5	5.6	112	82-119

ALS Houston, US Date: 24-Jul-23

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

Date Analyzed: 07-Jul-2023 16:57
Date Extracted: 06-Jul-2023 14:00
Units: ug/L

Lab Sample ID: LCS-197198 Analysis Method: SW6020A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Aluminum	100	101.6	102	84-117
Antimony	50	45.62	91	85-117
Arsenic	50	44.75	90	84-116
Barium	50	43.51	87	86-114
Beryllium	50	45.95	92	83-121
Cadmium	50	44.46	89	87-115
Calcium	5000	4857	97	87-118
Chromium	50	44.28	89	85-116
Cobalt	50	44.16	88	86-115
Copper	50	45.32	91	85-118
Iron	5000	4675	94	87-118
Magnesium	5000	4840	97	83-118
Manganese	50	45.25	91	87-115
Nickel	50	45.68	91	85-117
Potassium	5000	4797	96	87-115
Selenium	50	44.97	90	80-120
Silver	50	44.57	89	85-116
Sodium	5000	4773	96	85-117
Vanadium	50	44.33	89	86-115
Zinc	50	47.19	94	83-119
Lead	50	47.4	95	88-115
Thallium	50	44.74	90	82-116

ALS Houston, US Date: 24-Jul-23

Form 8 - ICP Serial Dilutions

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061712

Date Analyzed: 07-Jul-2023 17:01
Date Extracted: 06-Jul-2023 14:00
Units: ug/L

Lab Sample ID: HS23061712-08SD
Client Sample ID:MW1_062323

Analysis Method: SW6020A

Analyte	Sample Result	C	SD Result	C	RPD	Q
Aluminum	5.422	J	11.17	J	106	
Antimony	0	U	0	U	0	
Arsenic	0	U	0	U	0	
Barium	493.7		480.3		3	
Beryllium	0	U	0	U	0	
Cadmium	0	U	0	U	0	
Calcium	24200		23480		3	
Chromium	21.75		21.3	J	2	
Cobalt	18.69		18.22	J	2	
Copper	1.373	J	0	U	0	
Iron	923.8		923.8	J	0	
Lead	0	U	0	U	0	
Magnesium	20720		20140		3	
Manganese	670.7		667		1	
Nickel	1357		1355		0	
Potassium	2144		2095		2	
Selenium	0	U	0	U	0	
Silver	0	U	0	U	0	
Thallium	0.636	J	0	U	0	
Vanadium	0	U	0	U	0	
Zinc	0	U	0	U	0	
Sodium	190400		197100		4	

Report Generated By Teledyne Leeman QuickTrace

Analyst: ALSHS.NoUser,

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\071123AW.wszf

Creation Date: 7/11/2023 10:32:20 AM

Comment:

Results

Sample Name		Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
Calibration Blank		STD	07/11/23 12:26:34 pm	0.000	43	21.96		
Replicates	53.5	44.0	30.6	42.8				
Standard #1 (0.2 ppb)		STD	07/11/23 12:28:16 pm	0.200	1485	0.98	1.62%	
Replicates	1473.9	1470.6	1494.2	1499.8				
Standard #2 (0.5 ppb)		STD	07/11/23 12:29:58 pm	0.500	3545	0.36	-0.12%	
Replicates	3528.4	3545.4	3559.4	3548.8				
Standard #3 (2.0 ppb)		STD	07/11/23 12:31:41 pm	2.000	13908	0.71	-0.57%	
Replicates	13785.5	13879.2	13953.5	14015.3				
Standard #4 (5.0 ppb)		STD	07/11/23 12:33:24 pm	5.000	35461	0.36	1.72%	
Replicates	35299.7	35438.2	35503.0	35601.4				
Standard #5 (10.0 ppb)		STD	07/11/23 12:35:07 pm	10.000	68565	0.72	-1.57%	
Replicates	67949.5	68429.2	68791.4	69090.8				

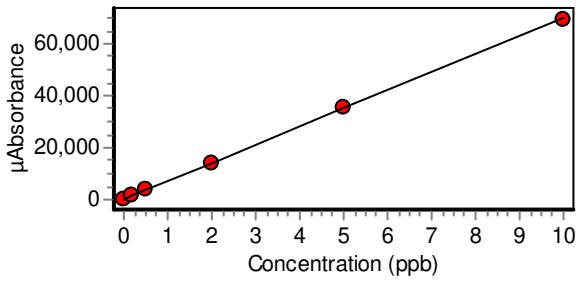
Calibration

Equation: Abs = 6958.517x + 70.320

R2: 0.99957 RSE: 1.67%

SEE: 623.1786

Flags:



ICCV		UNK	07/11/23 12:37:55 pm	5.070	35321	0.60		
Replicates	35043.2	35288.4	35416.4	35534.4				
ICV		UNK	07/11/23 12:44:46 pm	5.130	35780	0.09		
Replicates	35818.4	35789.9	35747.7	35763.5				
ICB		UNK	07/11/23 12:46:27 pm	-0.005	39	61.70		
Replicates	34.5	42.3	16.0	62.8				
CRA		UNK	07/11/23 12:48:09 pm	0.194	1418	1.07		
Replicates	1420.3	1397.4	1430.4	1424.4				
CCV		UNK	07/11/23 12:52:27 pm	5.140	35833	0.38		
Replicates	35657.3	35800.3	35913.9	35960.7				
CCB		UNK	07/11/23 12:54:11 pm	-0.007	21	34.99		
Replicates	34.6	37.5	7.4	5.3				
MBLK-197399		UNK	07/11/23 12:55:53 pm	0.023	232	44.73		
Replicates	153.4	194.0	266.8	315.2				

Sample Name				Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
LCS-197399				UNK	07/11/23 01:01:20 pm	4.570	31847	7.21		
Replicates	28630.4	31778.3	33482.3	33498.7						
HS23061658-01				UNK	07/11/23 01:03:02 pm	0.020	212	11.72		
Replicates	232.7	201.9	195.9	218.3						
HS23061670-01				UNK	07/11/23 01:04:44 pm	0.021	214	42.40		
Replicates	177.3	198.6	176.2	304.2						
HS23061673-01				UNK	07/11/23 01:06:27 pm	0.024	237	7.18		
Replicates	223.4	246.4	248.3	231.4						
HS23061774-01				UNK	07/11/23 01:08:10 pm	0.014	168	77.08		
Replicates	157.4	127.5	275.9	109.3						
HS23061774-02				UNK	07/11/23 01:09:52 pm	0.011	145	52.20		
Replicates	200.1	130.1	140.4	109.3						
HS23061774-03				UNK	07/11/23 01:11:35 pm	0.011	148	35.53		
Replicates	188.4	128.7	137.1	136.3						
HS23061904-01				UNK	07/11/23 01:13:17 pm	0.006	114	70.68		
Replicates	116.9	84.3	99.7	156.4						
HS23061904-02				UNK	07/11/23 01:14:58 pm	0.006	111	68.32		
Replicates	127.0	93.9	81.9	141.8						
CCV				UNK	07/11/23 01:16:58 pm	5.120	35711	0.22		
Replicates	35601.9	35740.9	35716.9	35785.1						
CCB				UNK	07/11/23 01:18:42 pm	-0.010	0	13.60		
Replicates	1.1	-14.6	5.8	5.7						
HS23061904-03				UNK	07/11/23 01:22:16 pm	0.012	155	43.08		
Replicates	209.9	139.9	138.9	132.3						
HS23061904-04				UNK	07/11/23 01:23:58 pm	0.156	1158	1.55		
Replicates	1174.2	1155.3	1135.7	1167.1						
HS23062187-02				UNK	07/11/23 01:25:40 pm	0.011	145	32.44		
Replicates	176.1	143.7	116.7	144.3						
HS23062191-01				UNK	07/11/23 01:27:22 pm	0.013	158	40.42		
Replicates	141.2	185.2	116.4	190.2						
HS23062191-02				UNK	07/11/23 01:29:04 pm	0.008	127	34.21		
Replicates	117.5	114.2	119.9	155.6						
HS23070020-01				UNK	07/11/23 01:30:47 pm	0.015	172	27.21		
Replicates	183.3	196.9	176.5	132.7						
HS23070020-01MS				UNK	07/11/23 01:34:35 pm	4.700	32795	0.95		
Replicates	33159.0	32940.3	32586.5	32494.3						
HS23070020-01MSD				UNK	07/11/23 01:36:18 pm	4.970	34672	0.48		
Replicates	34478.5	34595.7	34760.1	34852.7						

Sample Name				Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS23070093-01				UNK	07/11/23 01:38:01 pm	0.011	150	33.20		
	Replicates	145.9	115.6	177.4	163.2					
HS23070093-02				UNK	07/11/23 01:39:44 pm	0.021	215	12.19		
	Replicates	195.9	204.8	224.6	234.2					
CCV				UNK	07/11/23 01:41:51 pm	5.150	35934	0.28		
	Replicates	35801.9	35935.6	35953.6	36043.9					
CCB				UNK	07/11/23 01:43:35 pm	-0.008	17	20.49		
	Replicates	26.0	1.1	21.1	19.8					
MBLK-197408				UNK	07/11/23 01:47:43 pm	0.013	161	5.74		
	Replicates	164.7	165.6	156.6	155.8					
LCS-197408				UNK	07/11/23 01:49:25 pm	5.600	39040	0.54		
	Replicates	38749.4	39151.6	39228.6	39032.1					
HS23061712-03				UNK	07/11/23 01:51:06 pm	0.004	98	82.44		
	Replicates	69.0	94.5	105.1	124.1					
HS23061712-04				UNK	07/11/23 01:52:48 pm	0.018	197	20.61		
	Replicates	193.1	162.0	222.0	210.2					
HS23061712-05				UNK	07/11/23 01:54:30 pm	0.002	86	66.80		
	Replicates	97.7	77.4	91.4	77.0					
HS23061712-06				UNK	07/11/23 01:56:12 pm	0.020	211	6.87		
	Replicates	214.1	197.2	218.6	215.9					
HS23061712-08				UNK	07/11/23 01:57:54 pm	0.013	163	23.74		
	Replicates	142.9	178.9	184.3	144.8					
HS23061712-08MS				UNK	07/11/23 01:59:37 pm	5.060	35284	1.04		
	Replicates	35267.5	35630.3	35459.5	34780.3					
HS23061712-08MSD				UNK	07/11/23 02:01:19 pm	4.790	33380	1.93		
	Replicates	34262.4	33165.3	32738.4	33353.3					
HS23061812-01				UNK	07/11/23 02:03:02 pm	0.008	123	64.12		
	Replicates	159.9	78.4	121.4	133.1					
CCV				UNK	07/11/23 02:05:06 pm	4.870	33935	2.02		
	Replicates	33113.7	33700.7	34219.1	34707.1					
CCB				UNK	07/11/23 02:06:50 pm	-0.008	13	52.02		
	Replicates	54.5	-16.1	8.0	7.4					
HS23061812-04				UNK	07/11/23 02:08:33 pm	0.021	220	13.39		
	Replicates	209.3	219.6	201.8	247.4					
HS23061812-05				UNK	07/11/23 02:10:16 pm	0.010	141	33.75		
	Replicates	109.1	148.4	140.3	166.1					
HS23061812-06				UNK	07/11/23 02:11:58 pm	0.015	177	14.00		
	Replicates	169.2	185.3	160.3	193.1					

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS23061812-07					UNK	07/11/23 02:13:40 pm	0.018	199	15.75		
	Replicates	228.2	188.2	182.6	198.2						
HS23061821-03					UNK	07/11/23 02:15:21 pm	0.058	470	5.94		
	Replicates	485.5	435.3	484.9	475.1						
HS23061821-05					UNK	07/11/23 02:17:03 pm	0.015	178	45.14		
	Replicates	226.9	210.7	151.1	123.9						
HS23061821-08					UNK	07/11/23 02:18:45 pm	0.018	196	13.04		
	Replicates	219.4	187.1	182.7	194.7						
HS23061821-09					UNK	07/11/23 02:20:27 pm	0.018	193	7.41		
	Replicates	186.2	184.1	198.3	202.7						
HS23061821-10					UNK	07/11/23 02:22:09 pm	0.015	174	9.08		
	Replicates	187.6	172.2	165.6	171.2						
HS23061825-01					UNK	07/11/23 02:23:52 pm	0.018	192	10.90		
	Replicates	179.0	205.6	182.6	201.4						
CCV					UNK	07/11/23 02:34:49 pm	5.100	35569	0.29		
	Replicates	35544.0	35470.0	35548.0	35715.4						
CCB					UNK	07/11/23 02:36:33 pm	-0.004	39	52.29		
	Replicates	29.4	29.1	34.5	63.3						
HS23061825-02					UNK	07/11/23 02:40:30 pm	0.010	140	28.02		
	Replicates	151.5	113.7	137.7	157.9						
HS23061825-04					UNK	07/11/23 02:42:13 pm	0.027	260	8.85		
	Replicates	260.6	272.0	270.5	235.8						
HS23061825-05					UNK	07/11/23 02:43:56 pm	0.010	142	16.44		
	Replicates	137.4	160.3	136.6	135.6						
HS23061825-05MS					UNK	07/11/23 02:45:39 pm	5.190	36215	0.17		
	Replicates	36256.3	36271.9	36192.3	36138.6						
HS23061825-05MSD					UNK	07/11/23 02:47:21 pm	4.980	34730	0.71		
	Replicates	34878.8	34856.1	34819.3	34364.6						
MBLK-197418					UNK	07/11/23 02:49:03 pm	0.002	84	163.91		
	Replicates	52.3	91.5	87.1	105.7						
LCS-197418					UNK	07/11/23 02:50:45 pm	4.910	34260	1.26		
	Replicates	34819.3	34112.4	33794.4	34315.2						
HS23061925-01					UNK	07/11/23 02:52:27 pm	0.012	152	32.91		
	Replicates	149.6	115.4	165.3	177.4						
HS23061925-02					UNK	07/11/23 02:54:09 pm	0.011	149	39.70		
	Replicates	135.1	122.3	144.3	193.4						
HS23061925-02MS					UNK	07/11/23 02:55:51 pm	4.640	32371	1.86		
	Replicates	31528.4	32945.6	32562.8	32447.2						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
CCV					UNK	07/11/23 02:57:54 pm	5.030	35051	1.21		
	Replicates	34520.8	34935.7	35237.9	35508.5						
CCB					UNK	07/11/23 02:59:38 pm	-0.009	6	18.39		
	Replicates	17.8	-7.7	13.5	-0.1						
HS23061925-02MSD					UNK	07/11/23 03:02:10 pm	4.920	34284	3.24		
	Replicates	35105.6	35057.3	34241.4	32732.3						
HS23061925-03					UNK	07/11/23 03:03:52 pm	0.021	217	13.83		
	Replicates	195.4	203.9	232.5	235.9						
HS23061925-04					UNK	07/11/23 03:05:35 pm	0.014	166	44.62		
	Replicates	127.4	219.7	180.5	136.3						
HS23061925-05					UNK	07/11/23 03:07:18 pm	0.018	199	15.34		
	Replicates	180.1	187.9	224.9	202.8						
HS23061925-06					UNK	07/11/23 03:09:00 pm	0.024	240	11.31		
	Replicates	234.8	235.1	266.6	221.6						
HS23061925-07					UNK	07/11/23 03:10:44 pm	0.013	157	20.25		
	Replicates	131.7	160.0	167.8	169.8						
HS23061925-08					UNK	07/11/23 03:12:26 pm	0.027	260	28.08		
	Replicates	216.7	325.9	279.1	216.5						
HS23061925-09					UNK	07/11/23 03:14:08 pm	0.028	265	9.68		
	Replicates	282.4	274.1	238.9	264.8						
HS23061925-10					UNK	07/11/23 03:15:50 pm	0.039	342	3.53		
	Replicates	346.8	352.4	334.0	333.0						
HS23061925-11					UNK	07/11/23 03:17:32 pm	0.006	113	143.59		
	Replicates	101.9	33.2	140.4	178.2						
CCV					UNK	07/11/23 03:21:46 pm	5.100	35593	0.26		
	Replicates	35534.5	35539.3	35568.5	35730.9						
CCB					UNK	07/11/23 03:23:30 pm	-0.007	21	21.70		
	Replicates	17.6	6.8	31.2	26.8						
HS23061925-12					UNK	07/11/23 03:26:07 pm	0.013	159	12.94		
	Replicates	176.3	150.6	155.4	154.9						
HS23061925-13					UNK	07/11/23 03:27:49 pm	0.014	170	32.26		
	Replicates	165.3	181.4	129.1	206.1						
HS23061925-14					UNK	07/11/23 03:29:32 pm	0.006	112	39.54		
	Replicates	135.6	110.4	97.6	104.8						
HS23061925-15					UNK	07/11/23 03:31:14 pm	0.012	155	46.28		
	Replicates	118.6	131.7	163.1	206.7						
HS23061925-16					UNK	07/11/23 03:32:57 pm	-0.001	67	974.03		
	Replicates	58.1	23.8	79.6	105.6						

Sample Name			Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS23061925-17			UNK	07/11/23 03:34:39 pm	0.010	142	50.69		
Replicates	110.7	110.7	174.1	173.7					
HS23061925-18			UNK	07/11/23 03:36:22 pm	0.011	144	18.75		
Replicates	133.9	131.0	157.0	155.8					
HS23061925-19			UNK	07/11/23 03:38:05 pm	0.017	189	14.76		
Replicates	198.3	168.1	182.8	208.1					
HS23061925-20			UNK	07/11/23 03:39:48 pm	0.011	144	27.36		
Replicates	161.3	161.3	125.6	127.2					
MBLK-197421			UNK	07/11/23 03:41:30 pm	0.010	140	12.90		
Replicates	146.8	146.8	140.6	127.6					
CCV			UNK	07/11/23 03:43:41 pm	4.970	34645	1.48		
Replicates	34018.9	34521.9	34802.5	35238.3					
CCB			UNK	07/11/23 03:45:25 pm	-0.007	19	33.11		
Replicates	43.8	15.4	5.8	10.8					
LCS-197421			UNK	07/11/23 03:48:36 pm	5.310	37013	0.26		
Replicates	37073.8	37109.3	36972.7	36894.7					
HS23061925-21			UNK	07/11/23 03:50:18 pm	0.009	135	3.83		
Replicates	134.5	135.5	138.3	132.3					
HS23061925-22			UNK	07/11/23 03:52:01 pm	0.021	217	15.20		
Replicates	202.8	199.1	248.1	218.1					
HS23061925-22MS			UNK	07/11/23 03:53:43 pm	4.940	34427	0.55		
Replicates	34199.9	34600.2	34558.6	34347.6					
HS23061925-22MSD			UNK	07/11/23 03:55:25 pm	4.930	34378	0.78		
Replicates	34002.5	34381.9	34513.9	34614.1					
HS23061925-23			UNK	07/11/23 03:57:08 pm	0.006	110	7.00		
Replicates	110.8	110.4	112.3	105.8					
CCV			UNK	07/11/23 03:59:14 pm	5.100	35571	0.47		
Replicates	35342.1	35560.6	35660.6	35721.6					
CCB			UNK	07/11/23 04:00:58 pm	-0.006	28	31.57		
Replicates	29.8	28.2	11.4	43.8					
MBLK-197427			UNK	07/11/23 04:05:04 pm	0.005	108	17.40		
Replicates	103.5	110.9	116.8	102.8					
LCS-197427			UNK	07/11/23 04:09:07 pm	5.260	36651	0.11		
Replicates	36639.3	36703.5	36607.5	36652.9					
HS23070349-01			UNK	07/11/23 04:10:50 pm	0.008	127	63.44		
Replicates	100.0	146.2	93.6	167.6					
HS23070349-02			UNK	07/11/23 04:12:33 pm	0.010	140	24.44		
Replicates	119.0	147.4	158.6	134.8					

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS23070349-02MS					UNK	07/11/23 04:16:15 pm	4.810	33507	0.44		
Replicates	33672.8	33571.5	33452.3	33329.9							
HS23070349-02MSD					UNK	07/11/23 04:17:58 pm	6.980	48658	4.41		
Replicates	51627.0	48825.3	47162.6	47018.3							
HS23070349-02MSD					UNK	07/11/23 04:20:38 pm	4.660	32465	0.30		
Replicates	32494.5	32564.9	32465.5	32334.7							
HS23070349-03					UNK	07/11/23 04:22:21 pm	0.007	116	21.07		
Replicates	130.9	112.9	111.3	110.5							
MBLK-197424					UNK	07/11/23 04:24:37 pm	0.006	114	21.98		
Replicates	115.5	103.9	127.1	111.3							
LCS-197424					UNK	07/11/23 04:28:37 pm	4.930	34380	0.19		
Replicates	34399.4	34446.3	34378.3	34294.4							
CCV					UNK	07/11/23 04:30:40 pm	5.020	34977	0.85		
Replicates	34581.4	34933.1	35127.7	35266.1							
CCB					UNK	07/11/23 04:32:24 pm	-0.002	59	46.73		
Replicates	63.9	54.7	62.9	53.5							
MBKLT1-196912					UNK	07/11/23 04:36:26 pm	0.005	106	61.23		
Replicates	125.4	85.5	88.3	122.9							
MBKLT2-196909					UNK	07/11/23 04:38:08 pm	0.009	134	28.01		
Replicates	131.2	134.1	112.8	156.1							
MBKLT3-196980					UNK	07/11/23 04:39:51 pm	-0.005	37	26.61		
Replicates	49.9	32.6	35.0	30.2							
HS23061842-01					UNK	07/11/23 04:41:34 pm	0.006	111	41.23		
Replicates	120.8	113.7	86.4	122.4							
HS23061842-01MS					UNK	07/11/23 04:43:16 pm	4.800	33456	0.09		
Replicates	33494.8	33465.1	33430.5	33432.5							
HS23061842-01MSD					UNK	07/11/23 04:44:59 pm	5.190	36170	0.06		
Replicates	36182.2	36192.5	36154.7	36151.9							
HS32061941-01					UNK	07/11/23 04:46:42 pm	0.003	89	78.38		
Replicates	95.1	97.1	95.1	67.1							
HS23061942-01					UNK	07/11/23 04:48:25 pm	0.015	174	8.68		
Replicates	169.8	174.6	164.8	185.8							
HS23061957-01					UNK	07/11/23 04:50:07 pm	0.014	166	23.58		
Replicates	188.3	182.1	146.1	146.8							
HS23061958-01					UNK	07/11/23 04:51:50 pm	0.012	154	22.76		
Replicates	157.7	145.3	179.1	134.7							
CCV					UNK	07/11/23 04:53:56 pm	5.030	35070	0.93		
Replicates	34633.0	35019.5	35270.5	35356.3							

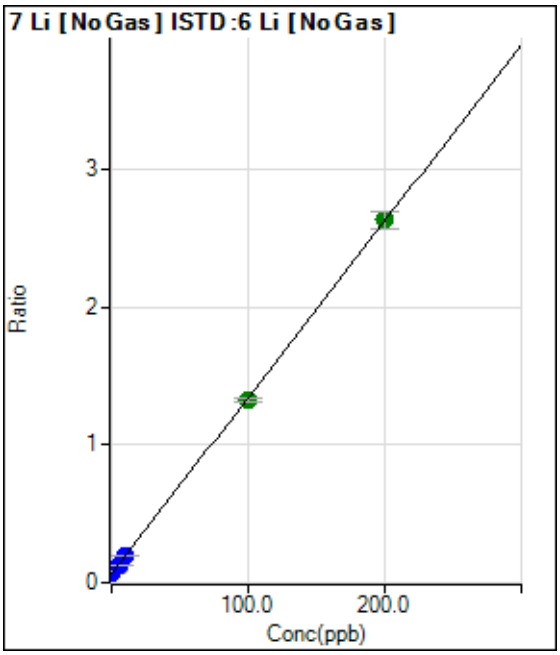
Sample Name				Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
CCB				UNK	07/11/23 04:55:40 pm	-0.010	-2	33.24		
	Replicates	3.3	-36.3	20.7	3.3					
HS23061962-01				UNK	07/11/23 04:58:22 pm	0.018	197	10.54		
	Replicates	190.5	215.3	184.4	197.1					
HS23061965-01				UNK	07/11/23 05:00:05 pm	0.017	189	15.85		
	Replicates	180.7	176.1	183.3	217.3					
CCV				UNK	07/11/23 05:01:48 pm	5.060	35306	0.30		
	Replicates	35152.3	35326.5	35389.5	35356.7					
CCB				UNK	07/11/23 05:03:32 pm	-0.007	18	60.77		
	Replicates	2.6	-11.5	21.7	61.1					

Calibration for 315_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\070723A.b\
Analysis File: 070723A.batch.bin
DA Date-Time: 7/7/2023 11:52:35 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	308CALB.d	CAL BLK	7/7/2023 11:31:27 PM
2	309CALS.d	2/10/200	7/7/2023 11:33:35 PM
3	310CALS.d	5/25/500	7/7/2023 11:35:43 PM
4	311CALS.d	10/50/100	7/7/2023 11:37:39 PM
5	312CALS.d	100/500/10K	7/7/2023 11:39:37 PM
6	313CALS.d	200/1000/20K	7/7/2023 11:41:27 PM

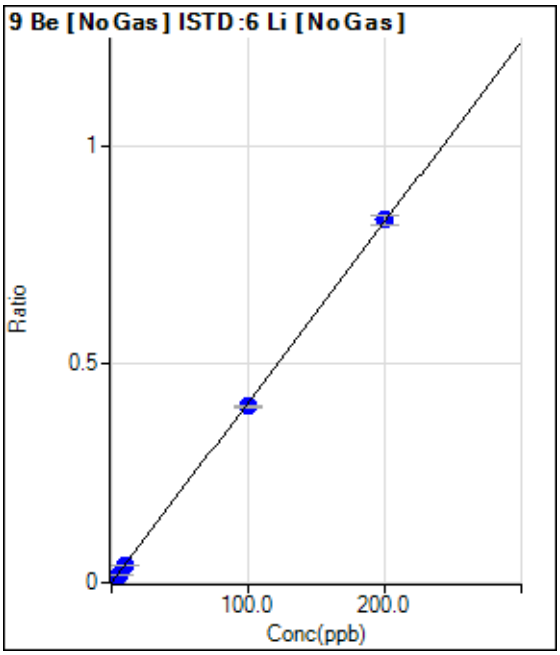
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	56678.82	0.0653	P	2.6
2	☐	2.000	2.033	79061.00	0.0914	P	2.7
3	☐	5.000	4.925	112946.25	0.1284	P	2.6
4	☐	10.000	10.133	168350.11	0.1951	P	0.9
5	☐	100.000	98.350	1108667.56	1.3243	A	1.9
6	☐	200.000	200.820	2139713.67	2.6359	A	5.1

y = 0.0128 * x + 0.0653
R = 1.0000
DL = 0.4023
BEC = 5.105

Weight: <None>
Min Conc: <None>

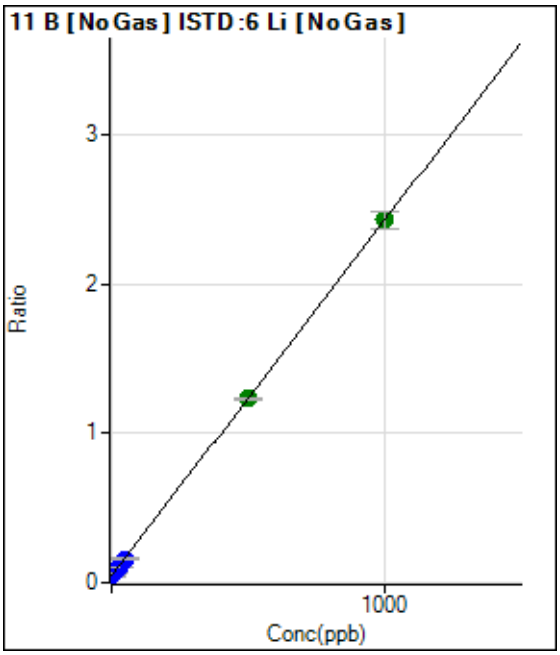


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	97.1
2	☐	2.000	1.990	7126.88	0.0082	P	2.3
3	☐	5.000	4.733	17213.97	0.0196	P	2.1
4	☐	10.000	9.713	34642.63	0.0401	P	1.4
5	☐	100.000	97.716	337940.89	0.4037	P	0.5
6	☐	200.000	201.163	674818.64	0.8310	P	2.9

y = 0.0041 * x + 1.5495E-005
R = 0.9999
DL = 0.01093
BEC = 0.003751

Weight: <None>
Min Conc: <None>

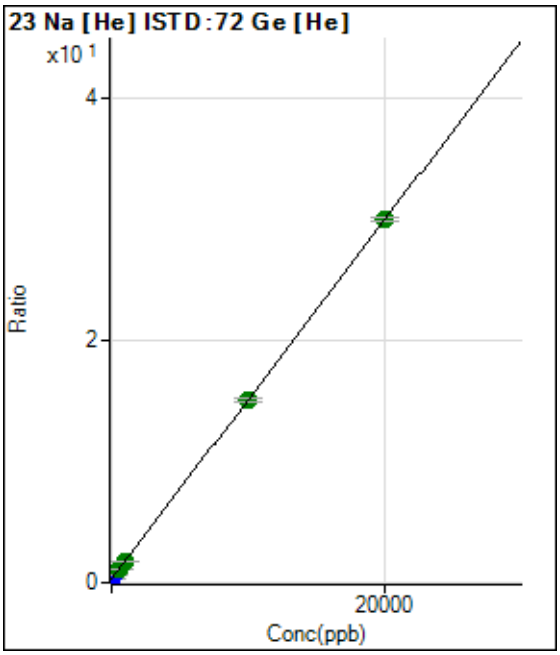
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	39856.53	0.0460	P	3.8
2	☐	10.000	9.344	59053.68	0.0682	P	3.2
3	☐	25.000	22.423	87452.05	0.0994	P	4.0
4	☐	50.000	48.305	139065.12	0.1611	P	1.5
5	☐	500.000	497.986	1032385.72	1.2331	A	0.8
6	☐	1000.000	1001.163	1974635.18	2.4326	A	5.1

y = 0.0024 * x + 0.0460
R = 1.0000
DL = 2.172
BEC = 19.28

Weight: <None>
Min Conc: <None>

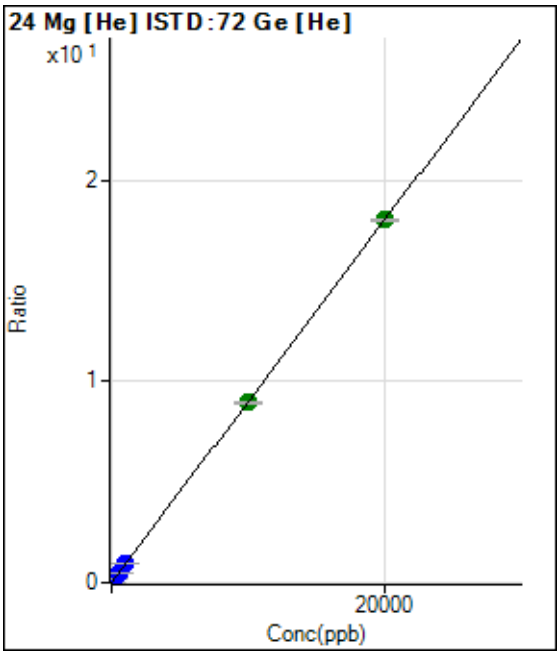


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	244697.51	0.3027	P	1.2
2	☐	200.000	207.161	489371.87	0.6096	P	0.1
3	☐	500.000	514.247	853165.54	1.0646	A	0.8
4	☐	1000.000	981.918	1404877.22	1.7574	A	0.6
5	☐	10000.00	9967.165	11905974.82	15.0684	A	1.7
6	☐	20000.00	20016.89	23503362.15	29.9563	A	0.9

y = 0.0015 * x + 0.3027
R = 1.0000
DL = 7.492
BEC = 204.4

Weight: <None>
Min Conc: <None>

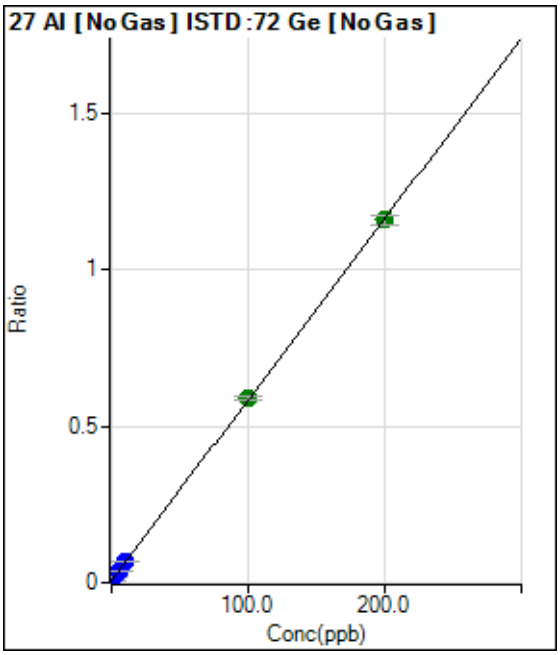
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	746.70	0.0009	P	8.1
2	☐	200.000	213.119	154863.68	0.1929	P	0.8
3	☐	500.000	534.151	386371.55	0.4821	P	1.5
4	☐	1000.000	1052.283	758559.70	0.9489	P	1.2
5	☐	10000.00	9946.054	7081273.23	8.9614	A	1.5
6	☐	20000.00	20023.37	14153564.79	18.0401	A	0.5

y = 9.0091E-004 * x + 9.2385E-004
R = 1.0000
DL = 0.2506
BEC = 1.025

Weight: <None>
Min Conc: <None>

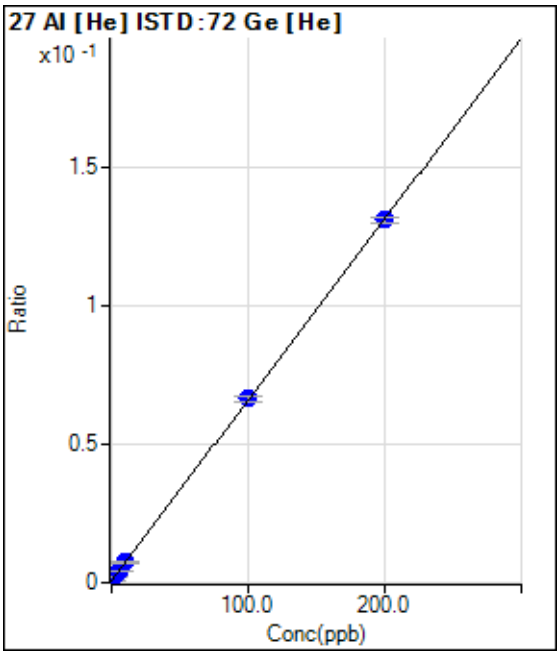


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16983.92	0.0065	P	2.8
2	☐	2.000	1.828	44799.18	0.0171	P	0.6
3	☐	5.000	5.417	97524.04	0.0378	P	0.7
4	☐	10.000	10.466	172439.57	0.0669	P	0.8
5	☐	100.000	100.724	1492936.90	0.5875	A	1.6
6	☐	200.000	199.606	2891043.81	1.1579	A	2.4

y = 0.0058 * x + 0.0065
R = 1.0000
DL = 0.09575
BEC = 1.129

Weight: <None>
Min Conc: <None>

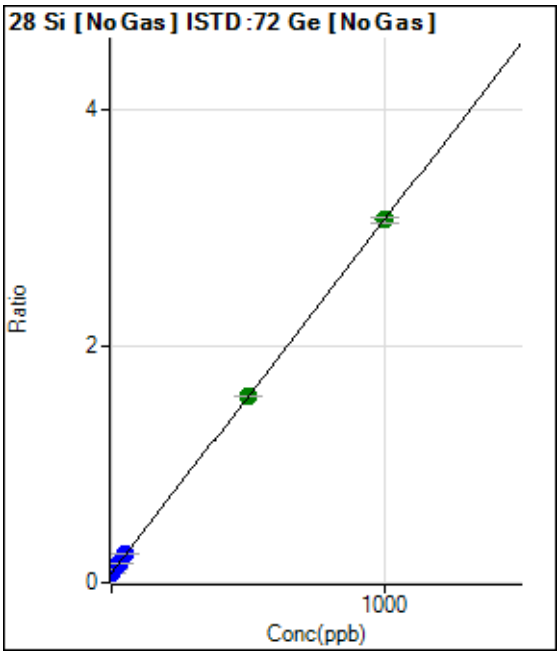
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	573.36	0.0007	P	10.2
2	☐	2.000	1.945	1586.79	0.0020	P	3.1
3	☐	5.000	5.501	3440.49	0.0043	P	7.1
4	☐	10.000	10.213	5888.00	0.0074	P	2.9
5	☐	100.000	100.637	52379.00	0.0663	P	2.5
6	☐	200.000	199.659	102630.55	0.1308	P	1.8

y = 6.5163E-004 * x + 7.0933E-004
R = 1.0000
DL = 0.3317
BEC = 1.089

Weight: <None>
Min Conc: <None>

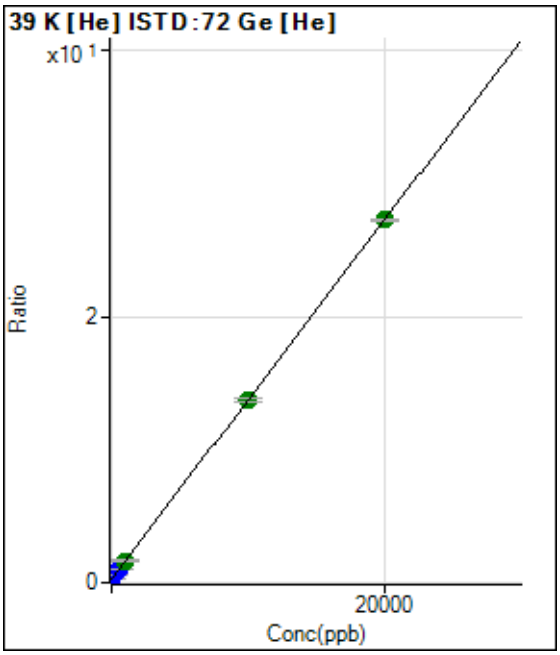


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	212774.65	0.0816	P	1.6
2	☐	10.000	9.549	289084.52	0.1101	P	1.1
3	☐	25.000	25.915	410562.71	0.1590	P	0.8
4	☐	50.000	52.553	614865.90	0.2385	P	0.8
5	☐	500.000	500.323	4002926.09	1.5753	A	0.2
6	☐	1000.000	999.693	7656643.22	3.0663	A	1.7

y = 0.0030 * x + 0.0816
R = 1.0000
DL = 1.324
BEC = 27.33

Weight: <None>
Min Conc: <None>

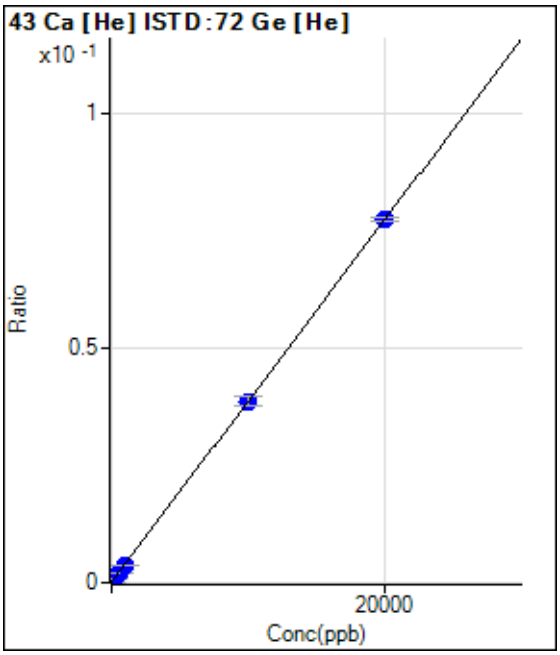
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	206000.90	0.2549	P	1.1
2	☐	200.000	207.058	429244.49	0.5347	P	0.1
3	☐	500.000	520.155	767566.68	0.9579	P	1.4
4	☐	1000.000	1037.918	1325387.30	1.6578	A	2.9
5	☐	10000.00	9996.451	10877302.76	13.7664	A	1.9
6	☐	20000.00	19999.30	21408687.18	27.2866	A	0.6

y = 0.0014 * x + 0.2549
R = 1.0000
DL = 6.114
BEC = 188.6

Weight: <None>
Min Conc: <None>

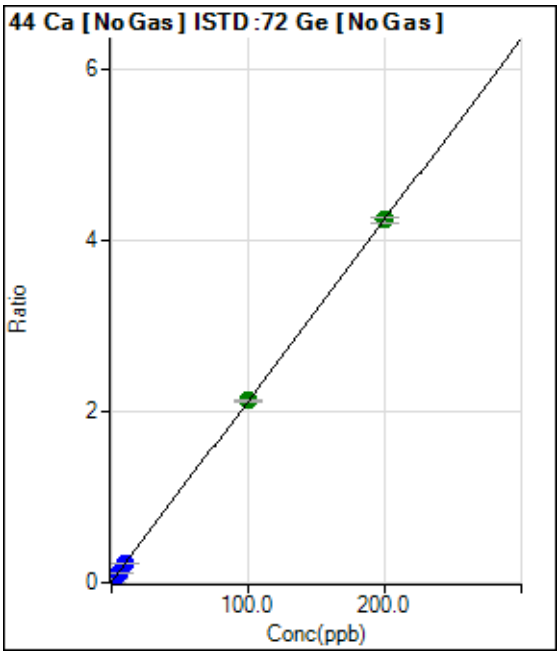


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63.33	0.0001	P	36.4
2	☐	200.000	170.231	590.02	0.0007	P	10.5
3	☐	500.000	500.720	1610.12	0.0020	P	3.5
4	☐	1000.000	937.854	2953.70	0.0037	P	4.2
5	☐	10000.00	9982.829	30474.25	0.0386	P	5.3
6	☐	20000.00	20011.97	60623.58	0.0773	P	1.0

y = 3.8573E-006 * x + 7.8353E-005
R = 1.0000
DL = 22.21
BEC = 20.31

Weight: <None>
Min Conc: <None>

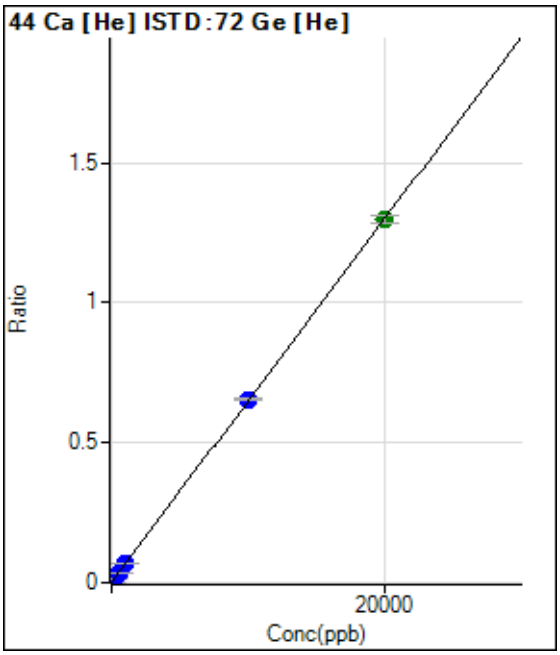
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	26812.99	0.0103	P	1.6
2	☐	2.000	2.058	141360.70	0.0538	P	1.8
3	☐	5.000	5.250	313560.08	0.1214	P	1.3
4	☐	10.000	10.523	600670.13	0.2330	P	1.5
5	☐	100.000	100.051	5406885.75	2.1279	A	1.2
6	☐	200.000	199.942	10592525.26	4.2421	A	1.8

y = 0.0212 * x + 0.0103
R = 1.0000
DL = 0.02335
BEC = 0.4857

Weight: <None>
Min Conc: <None>

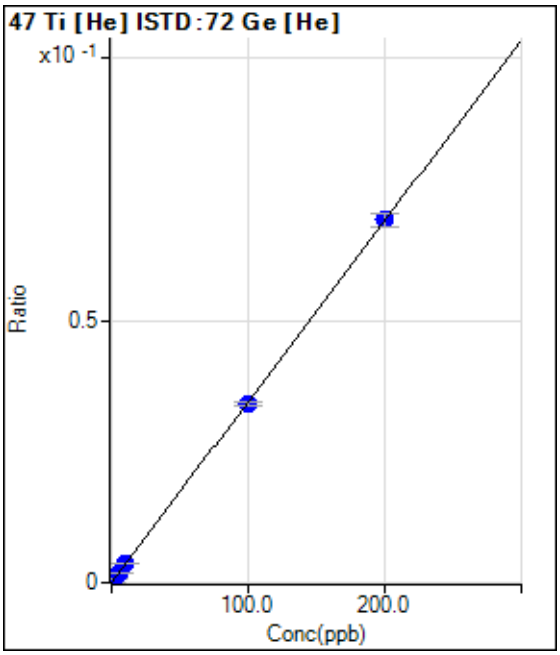


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	826.71	0.0010	P	14.2
2	☐	200.000	205.051	11508.37	0.0143	P	2.8
3	☐	500.000	513.164	27527.90	0.0343	P	3.9
4	☐	1000.000	1023.008	53919.08	0.0674	P	1.8
5	☐	10000.00	10090.29	518464.16	0.6562	P	1.5
6	☐	20000.00	19953.32	1017243.66	1.2965	A	2.2

y = 6.4928E-005 * x + 0.0010
R = 1.0000
DL = 6.7
BEC = 15.75

Weight: <None>
Min Conc: <None>

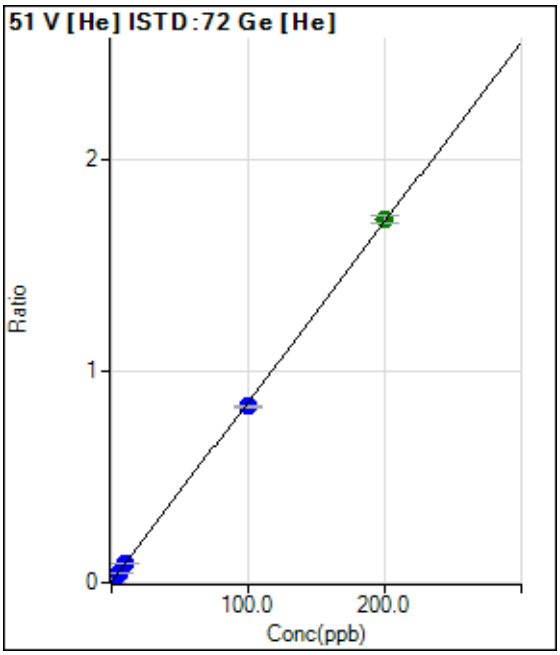
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	125.0
2	☐	2.000	1.892	540.02	0.0007	P	4.6
3	☐	5.000	4.900	1370.09	0.0017	P	4.4
4	☐	10.000	10.447	2893.69	0.0036	P	4.6
5	☐	100.000	98.604	26866.59	0.0340	P	2.5
6	☐	200.000	200.679	54264.13	0.0692	P	3.5

y = 3.4457E-004 * x + 2.0633E-005
R = 1.0000
DL = 0.2245
BEC = 0.05988

Weight: <None>
Min Conc: <None>

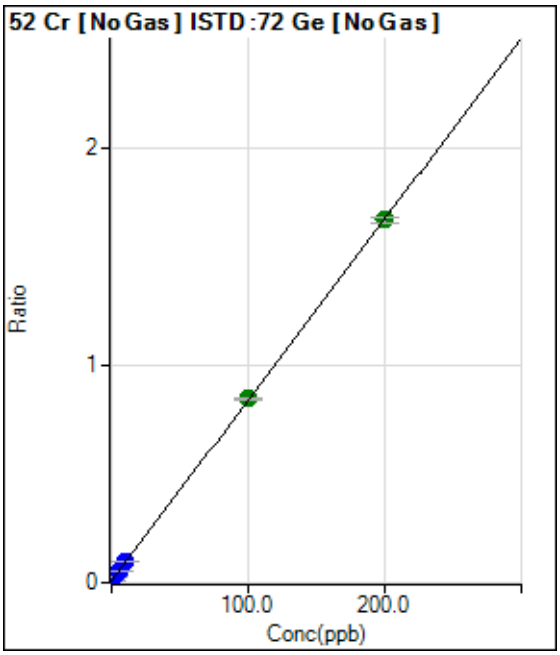


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3130.37	0.0039	P	2.3
2	☐	2.000	1.954	16446.54	0.0205	P	1.4
3	☐	5.000	4.945	36802.60	0.0459	P	1.9
4	☐	10.000	9.760	69456.27	0.0869	P	1.1
5	☐	100.000	97.661	659459.11	0.8345	P	1.0
6	☐	200.000	201.183	1345460.99	1.7150	A	2.1

y = 0.0085 * x + 0.0039
R = 0.9999
DL = 0.03121
BEC = 0.4554

Weight: <None>
Min Conc: <None>

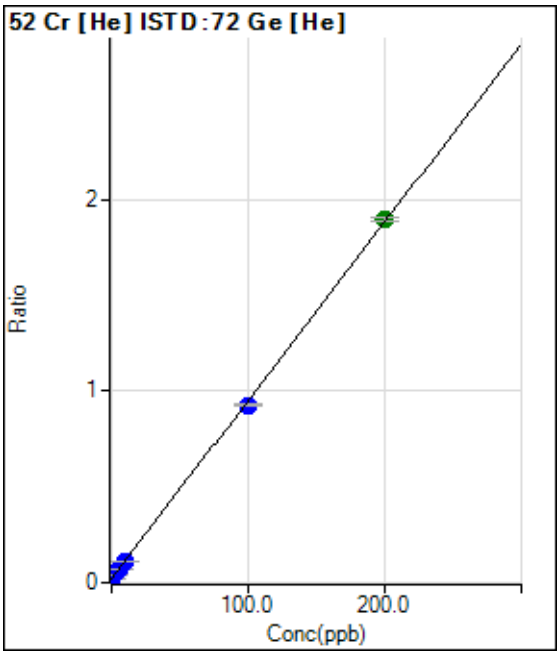
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22515.42	0.0086	P	0.8
2	☐	2.000	2.068	67925.47	0.0259	P	2.0
3	☐	5.000	5.202	134280.38	0.0520	P	1.0
4	☐	10.000	10.386	245435.89	0.0952	P	0.2
5	☐	100.000	100.626	2153070.07	0.8474	A	1.6
6	☐	200.000	199.662	4177343.58	1.6728	A	1.3

y = 0.0083 * x + 0.0086
R = 1.0000
DL = 0.02363
BEC = 1.036

Weight: <None>
Min Conc: <None>

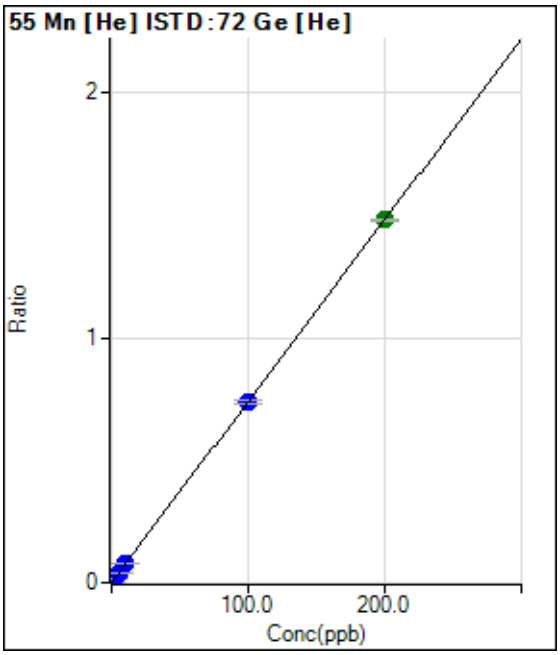


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	17241.19	0.0213	P	4.1
2	☐	2.000	1.991	31974.35	0.0398	P	0.8
3	☐	5.000	5.120	55228.42	0.0689	P	0.4
4	☐	10.000	9.955	91001.34	0.1138	P	1.7
5	☐	100.000	97.336	731711.94	0.9259	P	0.9
6	☐	200.000	201.332	1484684.93	1.8924	A	1.0

y = 0.0093 * x + 0.0213
R = 0.9999
DL = 0.2805
BEC = 2.295

Weight: <None>
Min Conc: <None>

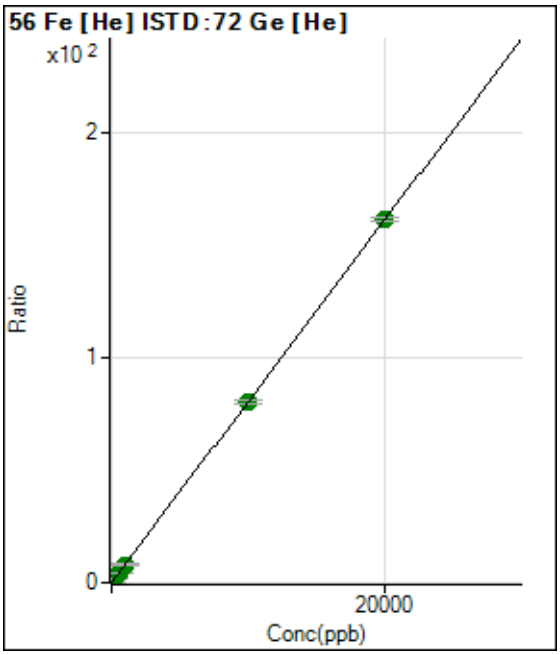
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	506.69	0.0006	P	32.2
2	☐	2.000	2.068	12779.54	0.0159	P	5.2
3	☐	5.000	5.066	30524.47	0.0381	P	1.3
4	☐	10.000	10.202	60812.07	0.0761	P	0.6
5	☐	100.000	99.679	582999.90	0.7377	P	1.8
6	☐	200.000	200.148	1161729.31	1.4807	A	0.8

y = 0.0074 * x + 6.2691E-004
R = 1.0000
DL = 0.08184
BEC = 0.08478

Weight: <None>
Min Conc: <None>

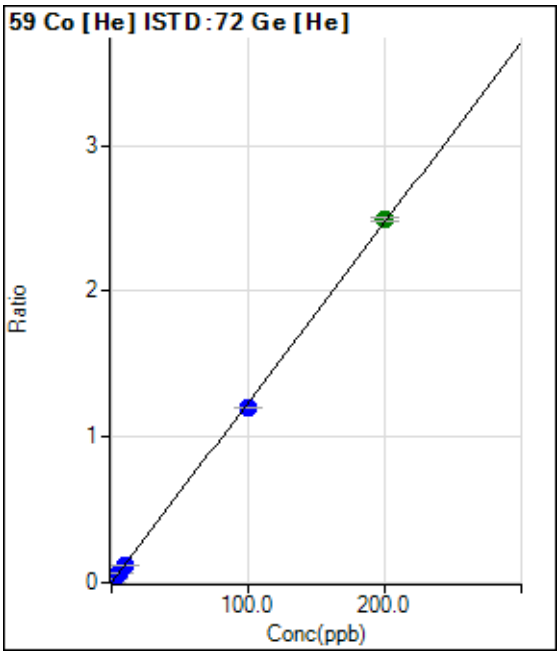


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	19761.17	0.0244	P	2.0
2	☐	200.000	205.990	1351641.02	1.6838	A	2.5
3	☐	500.000	505.388	3281905.16	4.0955	A	0.8
4	☐	1000.000	995.815	6432466.78	8.0460	A	2.0
5	☐	10000.00	9949.562	63360370.72	80.1709	A	1.8
6	☐	20000.00	20025.23	126573784.7	161.333	A	1.2

y = 0.0081 * x + 0.0244
R = 1.0000
DL = 0.1831
BEC = 3.035

Weight: <None>
Min Conc: <None>

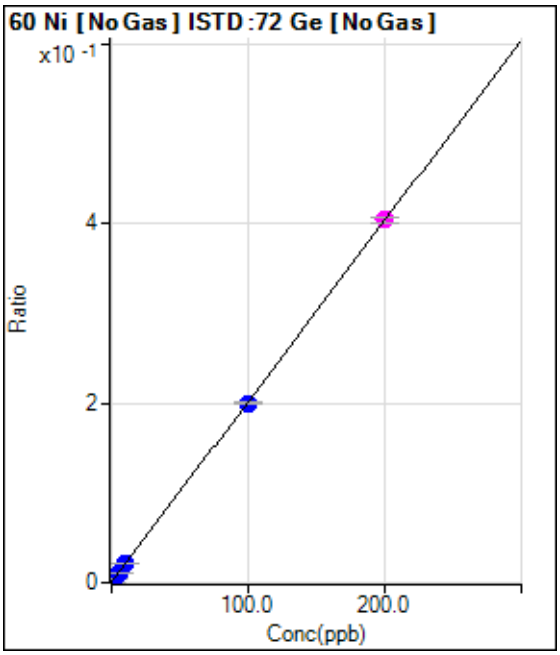
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63.33	0.0001	P	39.7
2	☐	2.000	1.944	19340.81	0.0241	P	2.5
3	☐	5.000	4.967	49229.36	0.0614	P	1.7
4	☐	10.000	9.863	97460.90	0.1219	P	1.0
5	☐	100.000	97.124	948171.42	1.1999	P	0.6
6	☐	200.000	201.446	1952403.93	2.4886	A	1.1

y = 0.0124 * x + 7.8345E-005
R = 0.9999
DL = 0.007554
BEC = 0.006342

Weight: <None>
Min Conc: <None>

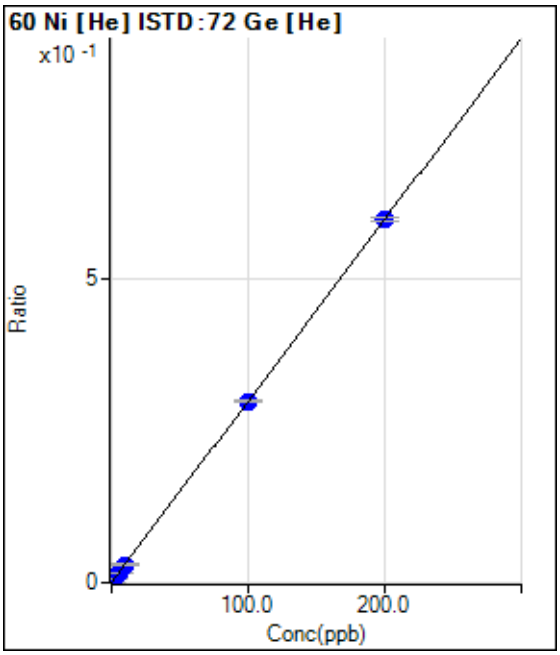


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1350.09	0.0005	P	11.6
2	☐	2.000	1.997	11902.08	0.0045	P	1.7
3	☐	5.000	5.078	27701.92	0.0107	P	1.7
4	☐	10.000	10.108	53716.11	0.0208	P	1.7
5	☐	100.000	98.917	506521.97	0.1993	P	1.2
6	☐	200.000	200.534	1007904.41	0.4036	M	1.7

y = 0.0020 * x + 5.1809E-004
R = 1.0000
DL = 0.08992
BEC = 0.2578

Weight: <None>
Min Conc: <None>

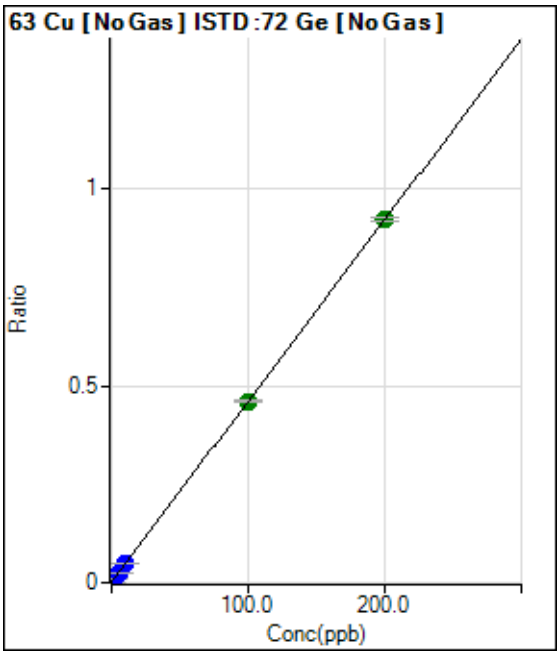
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	316.68	0.0004	P	26.8
2	☐	2.000	2.111	5384.50	0.0067	P	2.8
3	☐	5.000	4.901	12068.89	0.0151	P	3.8
4	☐	10.000	9.920	24044.80	0.0301	P	3.3
5	☐	100.000	100.075	236963.56	0.2999	P	0.7
6	☐	200.000	199.968	469777.15	0.5988	P	0.9

y = 0.0030 * x + 3.9177E-004
R = 1.0000
DL = 0.1053
BEC = 0.1309

Weight: <None>
Min Conc: <None>

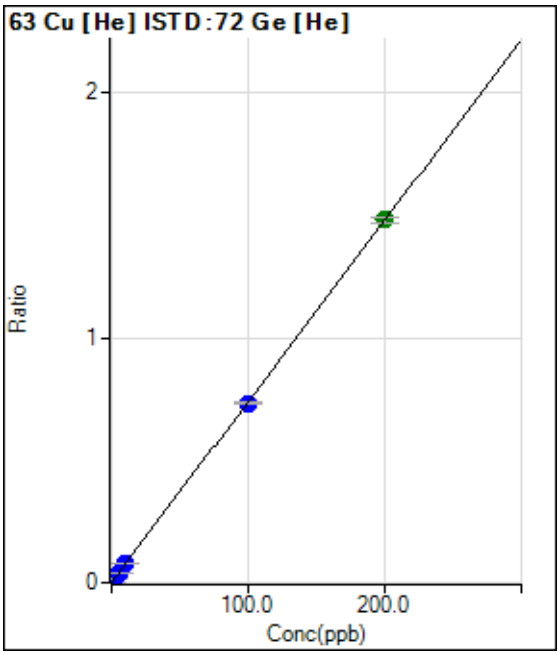


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3383.83	0.0013	P	1.7
2	☐	2.000	2.062	28293.22	0.0108	P	3.4
3	☐	5.000	5.091	63800.12	0.0247	P	0.2
4	☐	10.000	10.213	124379.58	0.0482	P	1.5
5	☐	100.000	99.710	1167937.64	0.4597	A	1.1
6	☐	200.000	200.132	2300609.60	0.9213	A	1.2

y = 0.0046 * x + 0.0013
R = 1.0000
DL = 0.01429
BEC = 0.2822

Weight: <None>
Min Conc: <None>

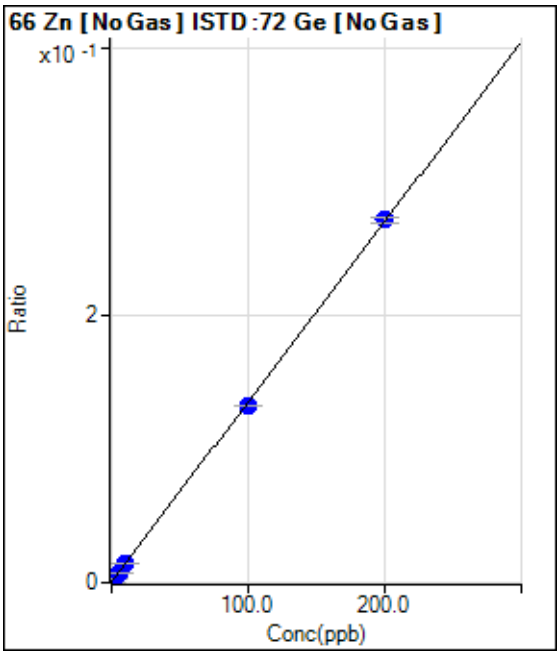
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	843.38	0.0010	P	6.8
2	☐	2.000	1.967	12499.27	0.0156	P	4.3
3	☐	5.000	5.009	30477.96	0.0380	P	2.4
4	☐	10.000	10.115	60554.86	0.0758	P	1.3
5	☐	100.000	99.173	579621.42	0.7336	P	1.5
6	☐	200.000	200.408	1162183.11	1.4813	A	1.3

y = 0.0074 * x + 0.0010
R = 1.0000
DL = 0.02871
BEC = 0.1413

Weight: <None>
Min Conc: <None>

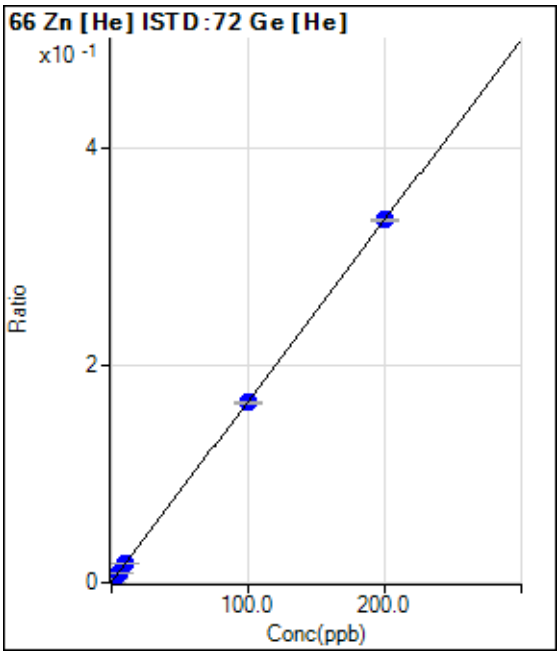


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1033.39	0.0004	P	7.2
2	☐	2.000	1.930	7885.77	0.0030	P	3.8
3	☐	5.000	5.091	18776.61	0.0073	P	2.4
4	☐	10.000	10.114	36218.68	0.0141	P	2.7
5	☐	100.000	97.892	336822.47	0.1326	P	0.6
6	☐	200.000	201.047	678761.16	0.2718	P	1.9

y = 0.0014 * x + 3.9611E-004
R = 0.9999
DL = 0.06366
BEC = 0.2934

Weight: <None>
Min Conc: <None>

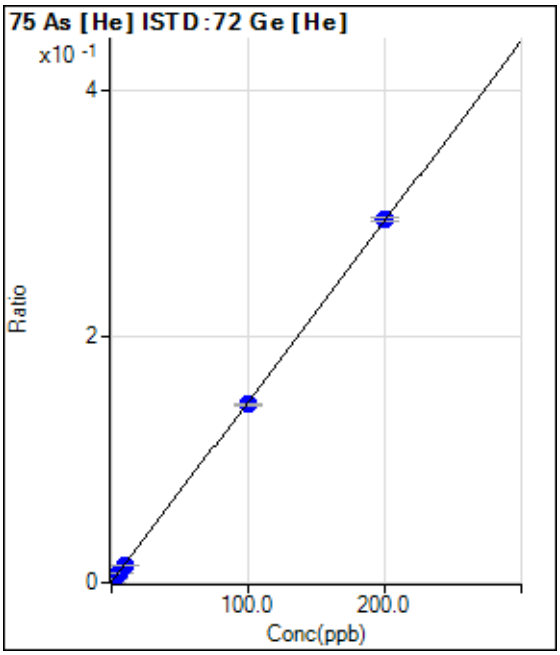
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	430.02	0.0005	P	13.0
2	☐	2.000	2.081	3210.44	0.0040	P	4.1
3	☐	5.000	5.153	7308.75	0.0091	P	1.0
4	☐	10.000	10.035	13790.57	0.0173	P	2.6
5	☐	100.000	99.454	131364.89	0.1662	P	0.8
6	☐	200.000	200.267	262209.50	0.3342	P	0.8

y = 0.0017 * x + 5.3204E-004
R = 1.0000
DL = 0.1246
BEC = 0.3193

Weight: <None>
Min Conc: <None>

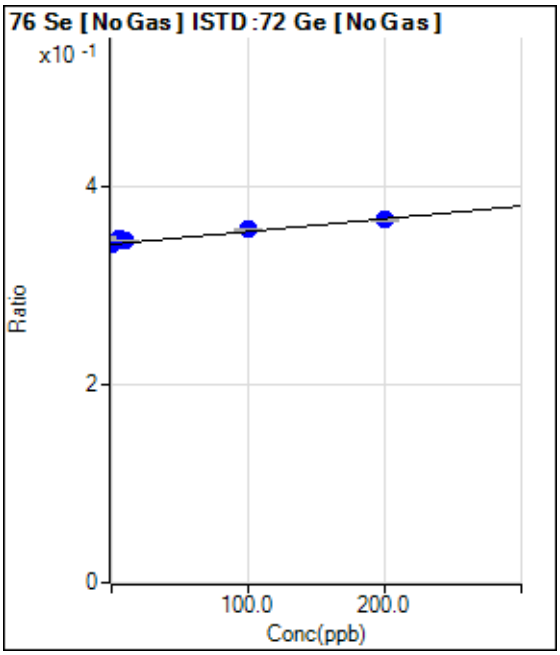


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	331.12	0.0004	P	9.1
2	☐	2.000	2.015	2701.40	0.0034	P	1.6
3	☐	5.000	4.969	6167.00	0.0077	P	4.2
4	☐	10.000	9.620	11608.38	0.0145	P	0.4
5	☐	100.000	98.573	114586.71	0.1450	P	0.7
6	☐	200.000	200.733	231334.69	0.2949	P	0.9

y = 0.0015 * x + 4.0964E-004
R = 1.0000
DL = 0.07589
BEC = 0.2793

Weight: <None>
Min Conc: <None>

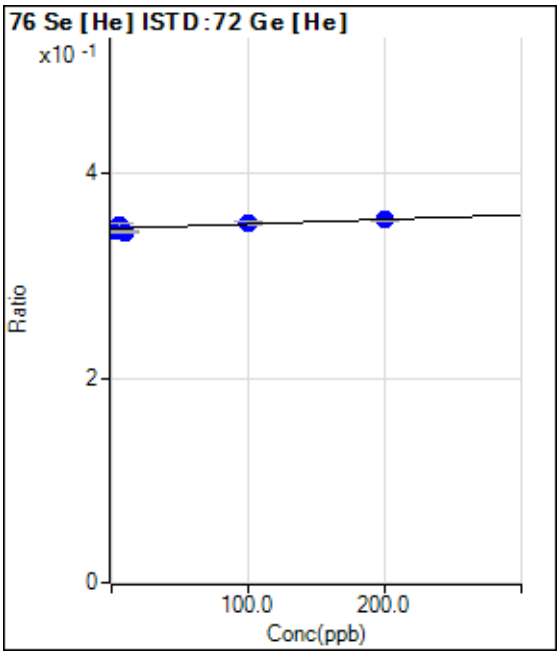
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	892034.26	0.3421	P	2.8
2	☐	2.000	13.717	902928.35	0.3438	P	0.6
3	☐	5.000	50.548	900357.85	0.3486	P	0.5
4	☐	10.000	26.961	890873.84	0.3455	P	0.1
5	☐	100.000	114.610	906780.43	0.3569	P	0.7
6	☐	200.000	190.591	915725.30	0.3667	P	0.8

y = 1.2902E-004 * x + 0.3421
R = 0.9769
DL = 225.9
BEC = 2651

Weight: <None>
Min Conc: <None>

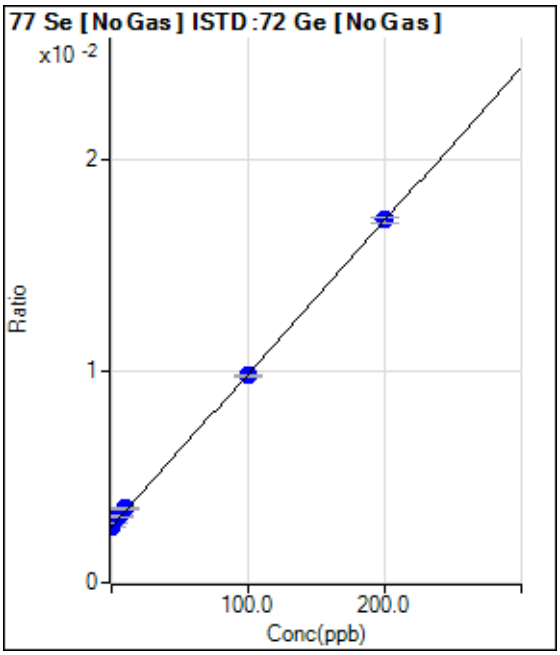


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	279617.80	0.3459	P	0.4
2	☐	2.000	-43.624	276117.55	0.3440	P	1.0
3	☐	5.000	60.936	279427.92	0.3487	P	1.2
4	☐	10.000	-74.599	273852.90	0.3426	P	0.9
5	☐	100.000	130.283	278032.89	0.3518	P	0.9
6	☐	200.000	188.146	278106.48	0.3545	P	0.8

y = 4.5277E-005 * x + 0.3459
R = 0.8705
DL = 91.71
BEC = 7641

Weight: <None>
Min Conc: <None>

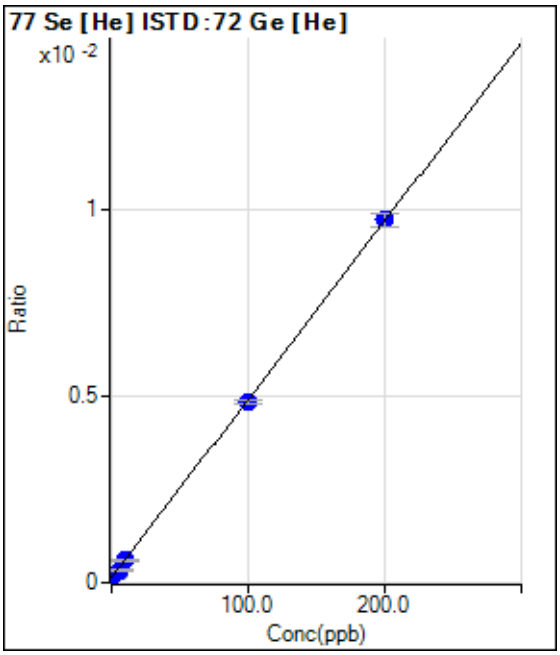
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6885.20	0.0026	P	1.7
2	☐	2.000	4.348	7759.05	0.0030	P	7.1
3	☐	5.000	6.874	8105.91	0.0031	P	4.6
4	☐	10.000	12.064	9059.85	0.0035	P	1.1
5	☐	100.000	98.902	24913.41	0.0098	P	1.1
6	☐	200.000	200.375	42835.01	0.0172	P	1.9

y = 7.2440E-005 * x + 0.0026
R = 0.9999
DL = 1.838
BEC = 36.44

Weight: <None>
Min Conc: <None>

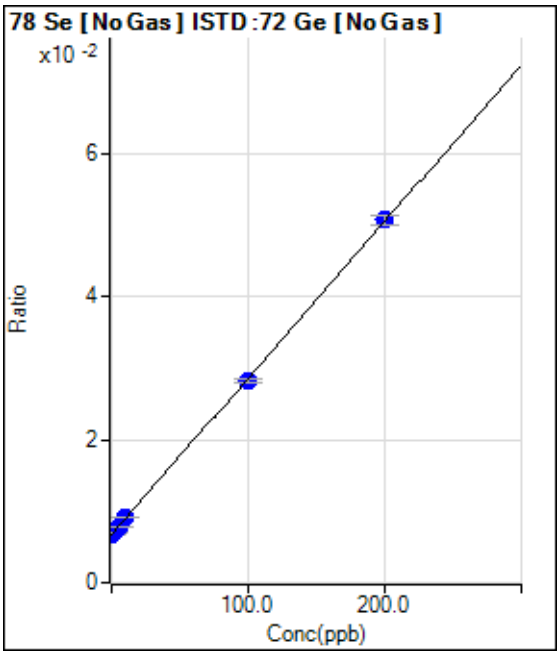


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	106.67	0.0001	P	67.9
2	☐	2.000	1.326	156.67	0.0002	P	26.0
3	☐	5.000	4.118	263.34	0.0003	P	6.9
4	☐	10.000	9.656	473.35	0.0006	P	6.8
5	☐	100.000	98.590	3817.28	0.0048	P	3.1
6	☐	200.000	200.751	7612.26	0.0097	P	3.5

y = 4.7670E-005 * x + 1.3203E-004
R = 1.0000
DL = 5.643
BEC = 2.77

Weight: <None>
Min Conc: <None>

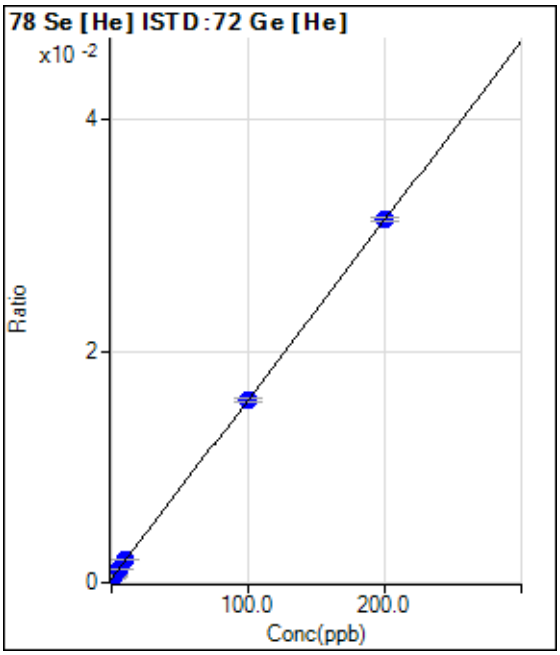
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	17558.40	0.0067	P	0.4
2	☐	2.000	1.256	18396.06	0.0070	P	1.8
3	☐	5.000	4.752	20068.51	0.0078	P	1.2
4	☐	10.000	10.499	23270.42	0.0090	P	0.6
5	☐	100.000	97.924	71476.16	0.0281	P	2.0
6	☐	200.000	201.027	126517.42	0.0507	P	2.8

y = 2.1852E-004 * x + 0.0067
R = 0.9999
DL = 0.4033
BEC = 30.81

Weight: <None>
Min Conc: <None>

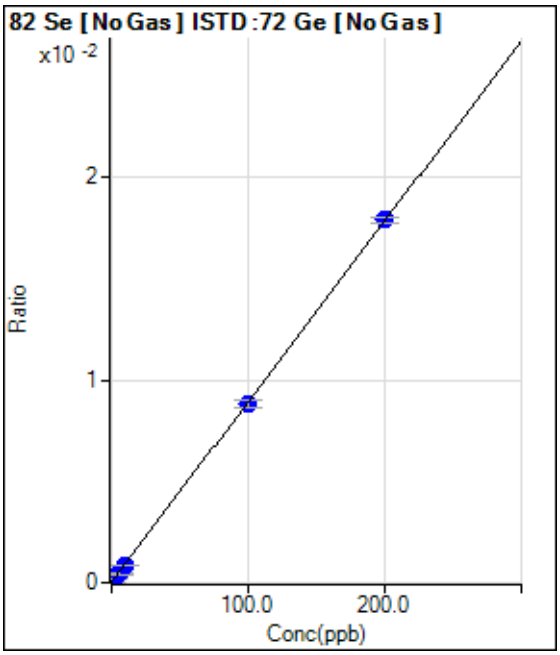


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	264.00	0.0003	P	6.0
2	☐	2.000	1.576	458.01	0.0006	P	5.4
3	☐	5.000	5.247	912.70	0.0011	P	2.9
4	☐	10.000	10.620	1575.43	0.0020	P	3.8
5	☐	100.000	99.410	12417.73	0.0157	P	2.1
6	☐	200.000	200.262	24576.39	0.0313	P	1.2

y = 1.5479E-004 * x + 3.2663E-004
R = 1.0000
DL = 0.3786
BEC = 2.11

Weight: <None>
Min Conc: <None>

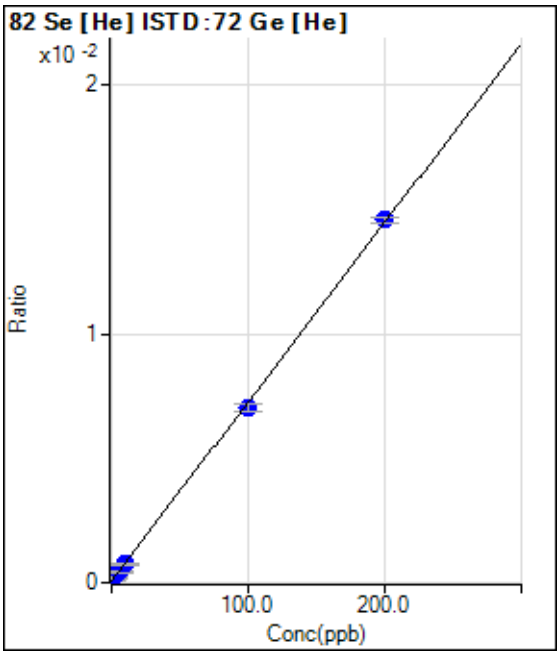
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	74.72	0.0000	P	37.9
2	☐	2.000	1.717	477.90	0.0002	P	16.6
3	☐	5.000	4.593	1131.44	0.0004	P	5.2
4	☐	10.000	9.240	2197.90	0.0009	P	4.9
5	☐	100.000	98.601	22404.18	0.0088	P	3.8
6	☐	200.000	200.750	44757.15	0.0179	P	1.5

y = 8.9143E-005 * x + 2.8581E-005
R = 1.0000
DL = 0.3643
BEC = 0.3206

Weight: <None>
Min Conc: <None>

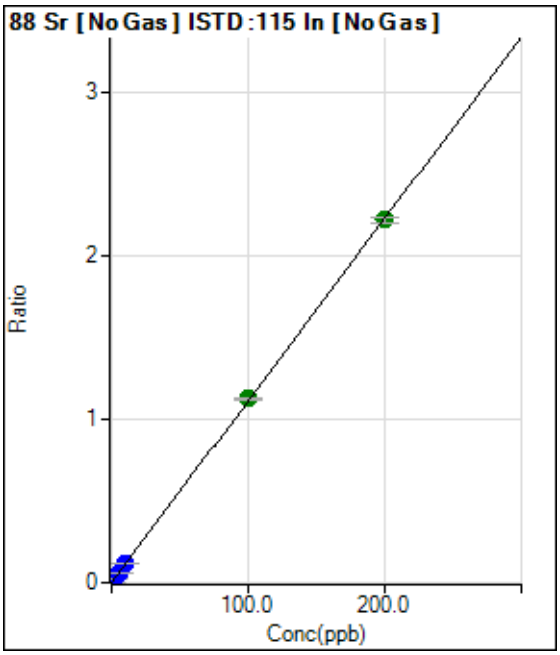


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	53.33	0.0001	P	21.7
2	☐	2.000	1.966	166.67	0.0002	P	22.4
3	☐	5.000	5.029	343.34	0.0004	P	7.5
4	☐	10.000	9.344	590.02	0.0007	P	12.9
5	☐	100.000	96.752	5557.92	0.0070	P	5.4
6	☐	200.000	201.656	11441.73	0.0146	P	1.4

y = 7.1994E-005 * x + 6.5991E-005
R = 0.9998
DL = 0.597
BEC = 0.9166

Weight: <None>
Min Conc: <None>

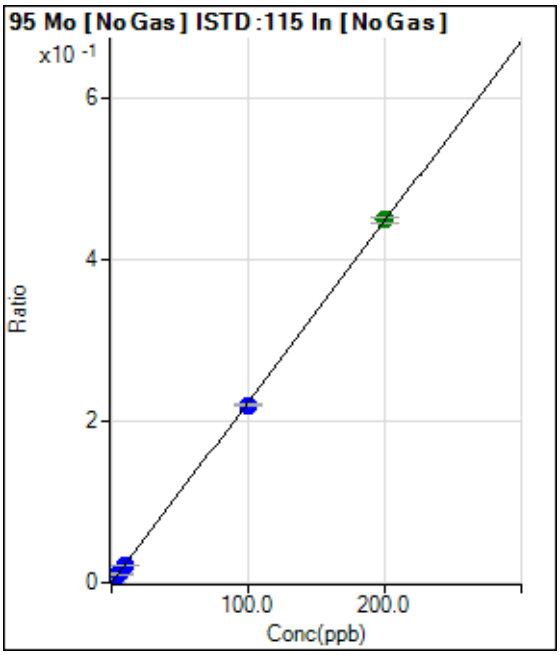
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1516.78	0.0005	P	9.8
2	☐	2.000	2.078	65804.98	0.0236	P	2.7
3	☐	5.000	5.099	160984.74	0.0573	P	4.6
4	☐	10.000	10.487	323246.44	0.1172	P	2.3
5	☐	100.000	101.050	3077770.16	1.1244	A	1.6
6	☐	200.000	199.448	5970422.62	2.2188	A	1.9

y = 0.0111 * x + 5.4232E-004
R = 1.0000
DL = 0.01429
BEC = 0.04876

Weight: <None>
Min Conc: <None>

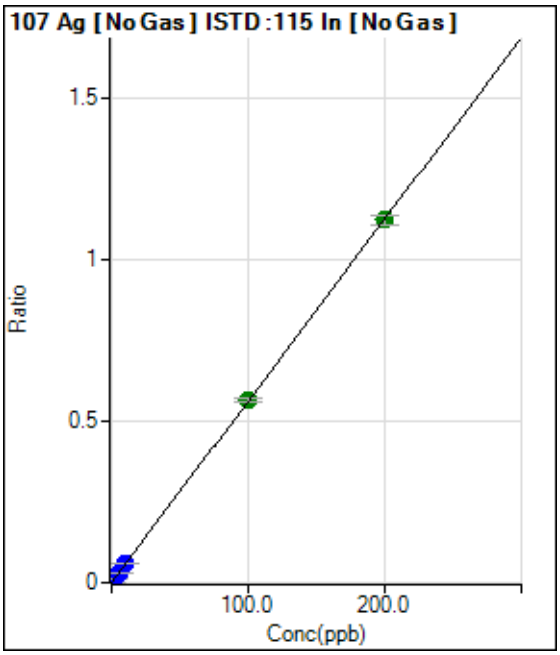


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	333.34	0.0001	P	9.2
2	☐	2.000	1.941	12395.99	0.0045	P	3.4
3	☐	5.000	4.815	30582.11	0.0109	P	5.4
4	☐	10.000	9.828	60895.82	0.0221	P	3.3
5	☐	100.000	98.298	601568.53	0.2198	P	1.4
6	☐	200.000	200.865	1208005.95	0.4490	A	1.8

y = 0.0022 * x + 1.1911E-004
R = 1.0000
DL = 0.01478
BEC = 0.05331

Weight: <None>
Min Conc: <None>

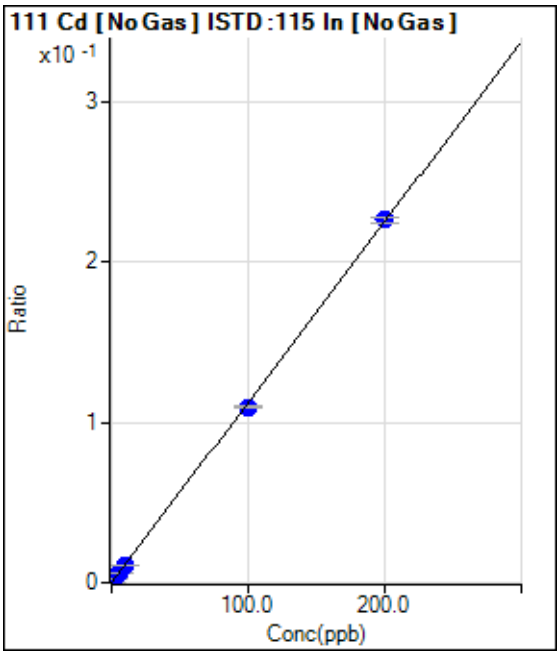
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.67	0.0000	P	41.3
2	☐	2.000	2.003	31421.15	0.0113	P	3.8
3	☐	5.000	4.997	79143.06	0.0281	P	3.6
4	☐	10.000	10.227	158790.02	0.0576	P	2.0
5	☐	100.000	100.451	1546948.21	0.5651	A	1.4
6	☐	200.000	199.763	3023730.37	1.1239	A	2.4

y = 0.0056 * x + 2.3741E-005
R = 1.0000
DL = 0.005231
BEC = 0.00422

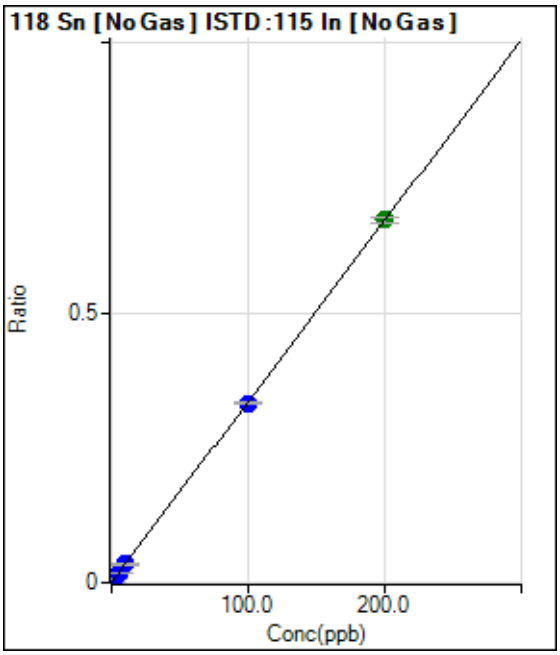
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-3.82	0.0000	P	-157.6
2	☐	2.000	1.959	6115.33	0.0022	P	5.0
3	☐	5.000	4.971	15699.28	0.0056	P	4.4
4	☐	10.000	9.948	30827.07	0.0112	P	1.6
5	☐	100.000	97.523	299757.40	0.1095	P	1.0
6	☐	200.000	201.242	608024.64	0.2260	P	1.8

y = 0.0011 * x - 1.3980E-006
R = 0.9999
DL = 0.005886
BEC = -0.001245

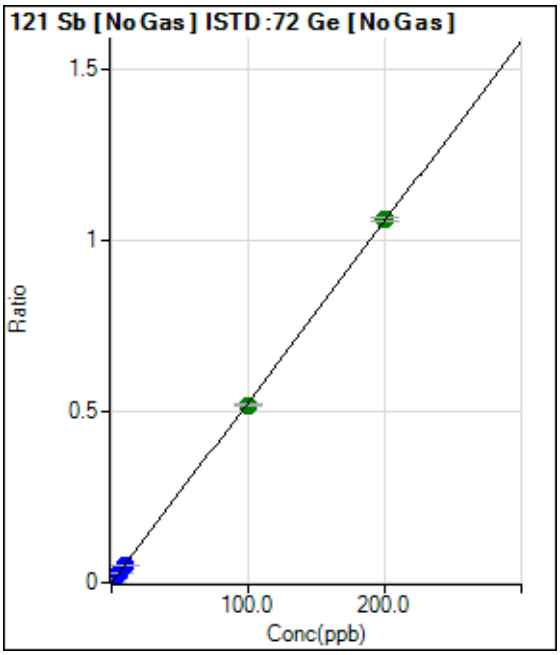
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1473.45	0.0005	P	13.0
2	☐	2.000	1.945	19618.35	0.0070	P	1.1
3	☐	5.000	4.830	47024.56	0.0167	P	3.1
4	☐	10.000	9.973	93645.98	0.0339	P	2.0
5	☐	100.000	98.979	909262.38	0.3322	P	0.9
6	☐	200.000	200.517	1809468.62	0.6724	A	1.5

y = 0.0034 * x + 5.2827E-004
R = 1.0000
DL = 0.06169
BEC = 0.1577

Weight: <None>
Min Conc: <None>

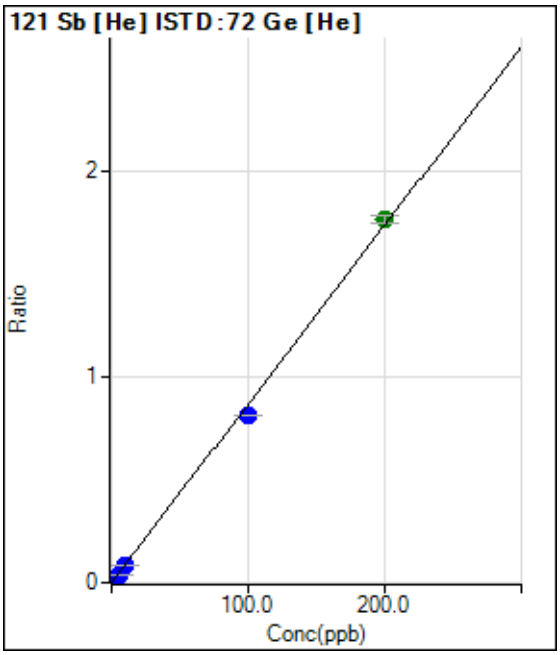


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	226.67	0.0001	P	34.3
2	☐	2.000	1.886	26326.80	0.0100	P	5.1
3	☐	5.000	4.858	66354.67	0.0257	P	0.9
4	☐	10.000	9.854	134128.97	0.0520	P	0.1
5	☐	100.000	98.233	1315758.16	0.5178	A	1.4
6	☐	200.000	200.895	2644361.63	1.0589	A	1.1

y = 0.0053 * x + 8.6679E-005
R = 0.9999
DL = 0.01694
BEC = 0.01645

Weight: <None>
Min Conc: <None>

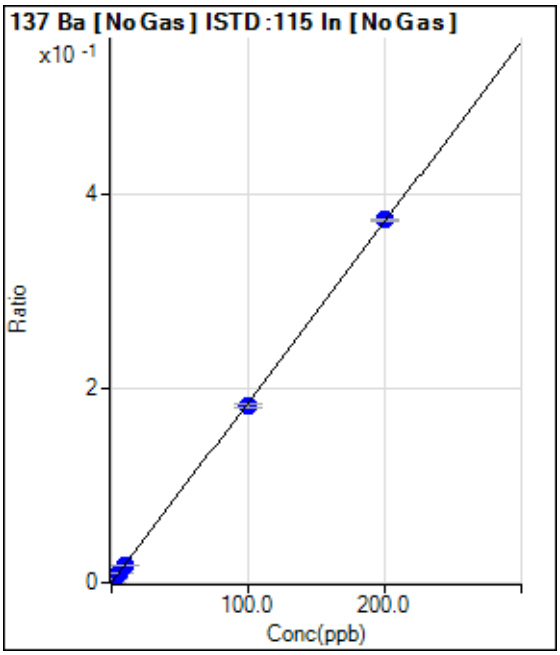
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	100.00	0.0001	P	20.0
2	☐	2.000	1.851	12996.66	0.0162	P	2.1
3	☐	5.000	4.665	32547.47	0.0406	P	0.5
4	☐	10.000	9.347	64947.28	0.0812	P	1.4
5	☐	100.000	93.746	643023.66	0.8138	P	1.0
6	☐	200.000	203.170	1383458.89	1.7634	A	2.1

y = 0.0087 * x + 1.2372E-004
R = 0.9993
DL = 0.008562
BEC = 0.01426

Weight: <None>
Min Conc: <None>

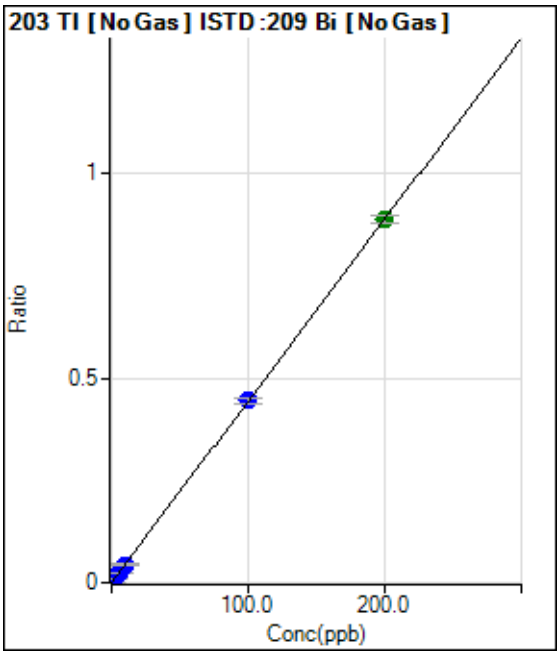


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	393.35	0.0001	P	21.1
2	☐	2.000	1.978	10604.54	0.0038	P	0.5
3	☐	5.000	4.961	26280.23	0.0093	P	1.6
4	☐	10.000	9.975	51412.12	0.0186	P	0.3
5	☐	100.000	97.883	496959.16	0.1816	P	1.5
6	☐	200.000	201.061	1003250.77	0.3728	P	0.6

y = 0.0019 * x + 1.4074E-004
R = 0.9999
DL = 0.04796
BEC = 0.07593

Weight: <None>
Min Conc: <None>

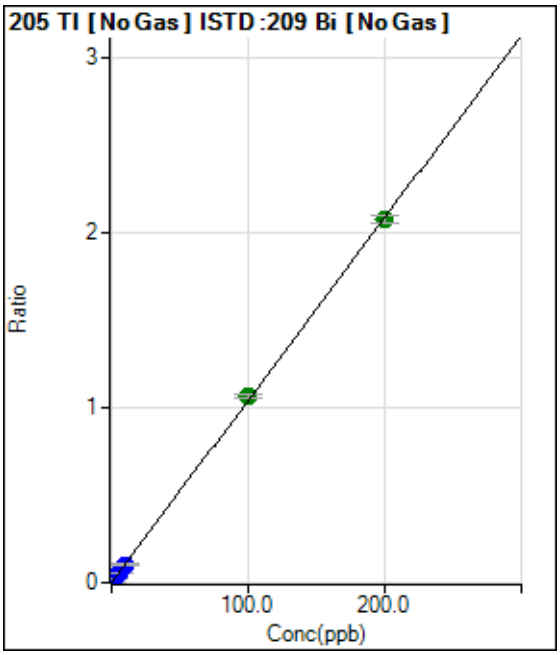
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.67	0.0000	P	67.8
2	☐	2.000	2.072	21642.48	0.0092	P	2.9
3	☐	5.000	5.096	52336.69	0.0226	P	4.6
4	☐	10.000	9.891	101507.42	0.0439	P	4.5
5	☐	100.000	100.270	996888.69	0.4447	P	2.7
6	☐	200.000	199.867	1955471.85	0.8864	A	2.2

y = 0.0044 * x + 2.8502E-005
R = 1.0000
DL = 0.01307
BEC = 0.006427

Weight: <None>
Min Conc: <None>

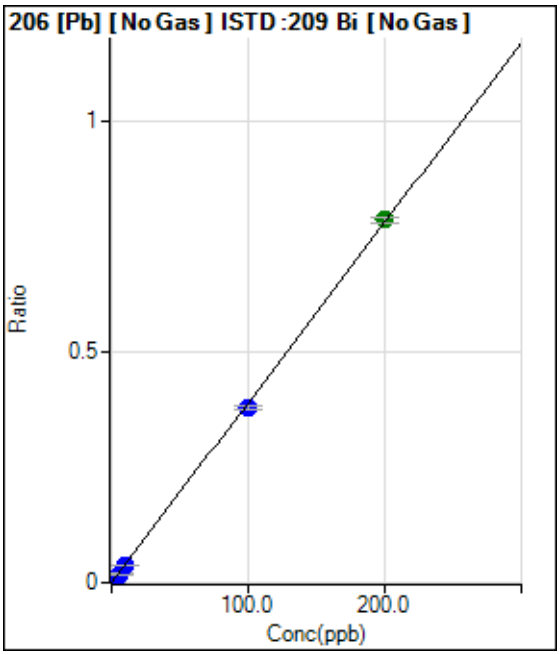


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	210.00	0.0001	P	23.9
2	☐	2.000	2.066	50827.42	0.0216	P	3.2
3	☐	5.000	5.188	125367.09	0.0542	P	3.9
4	☐	10.000	10.006	241646.33	0.1044	P	2.5
5	☐	100.000	102.074	2386797.62	1.0647	A	2.5
6	☐	200.000	198.957	4578033.16	2.0751	A	2.2

y = 0.0104 * x + 9.0149E-005
R = 0.9999
DL = 0.006199
BEC = 0.008644

Weight: <None>
Min Conc: <None>

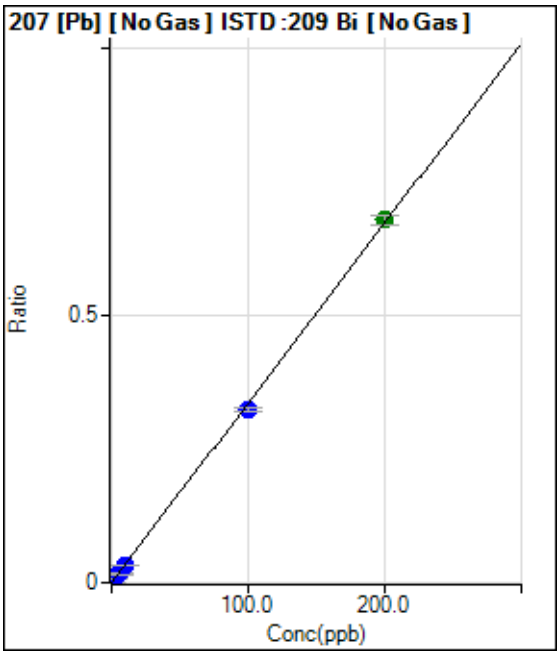
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	80.00	0.0000	P	41.8
2	☐	2.000	1.918	17616.06	0.0075	P	2.7
3	☐	5.000	4.767	43001.24	0.0186	P	5.5
4	☐	10.000	9.740	87778.40	0.0380	P	4.5
5	☐	100.000	96.886	845704.26	0.3772	P	2.2
6	☐	200.000	201.577	1731329.35	0.7848	A	1.9

y = 0.0039 * x + 3.4186E-005
R = 0.9998
DL = 0.01101
BEC = 0.008781

Weight: <None>
Min Conc: <None>

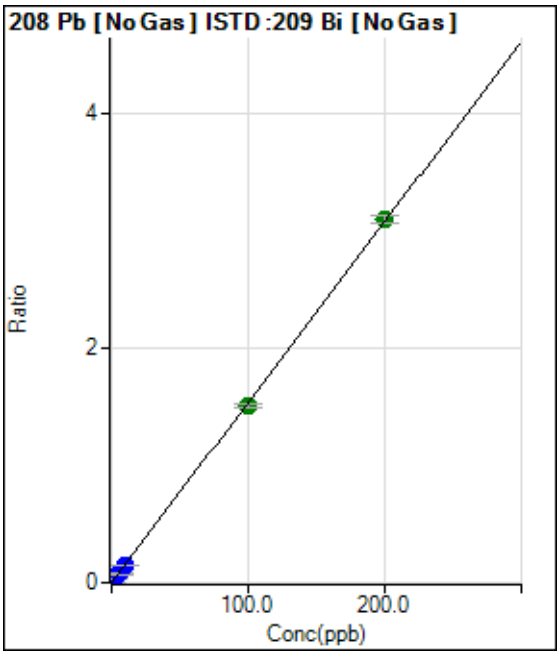


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	123.34	0.0001	P	28.2
2	☐	2.000	1.916	15259.58	0.0065	P	2.4
3	☐	5.000	4.842	37807.71	0.0163	P	4.2
4	☐	10.000	9.583	74700.72	0.0323	P	4.2
5	☐	100.000	96.206	725773.40	0.3237	P	2.3
6	☐	200.000	201.923	1498821.69	0.6794	A	2.4

y = 0.0034 * x + 5.3071E-005
R = 0.9998
DL = 0.01335
BEC = 0.01577

Weight: <None>
Min Conc: <None>

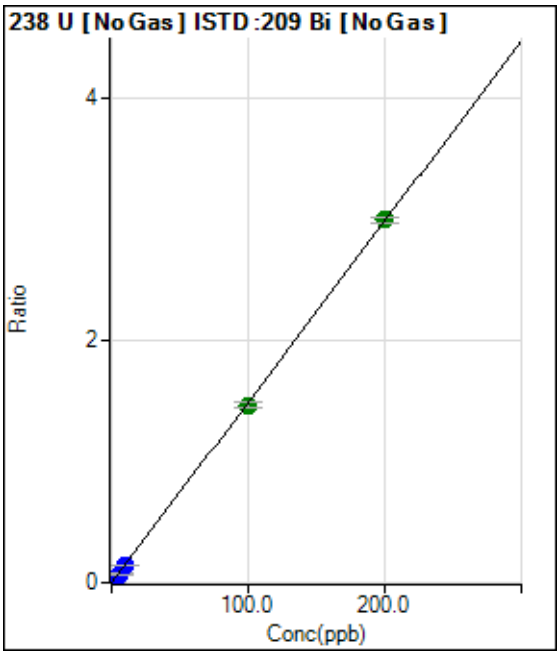
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	420.01	0.0002	P	8.5
2	☐	2.000	1.935	70158.54	0.0299	P	3.0
3	☐	5.000	4.831	171897.63	0.0743	P	4.3
4	☐	10.000	9.753	346601.17	0.1498	P	3.9
5	☐	100.000	97.720	3362480.39	1.4998	A	2.1
6	☐	200.000	201.157	6810904.74	3.0872	A	1.9

y = 0.0153 * x + 1.8068E-004
R = 0.9999
DL = 0.002986
BEC = 0.01177

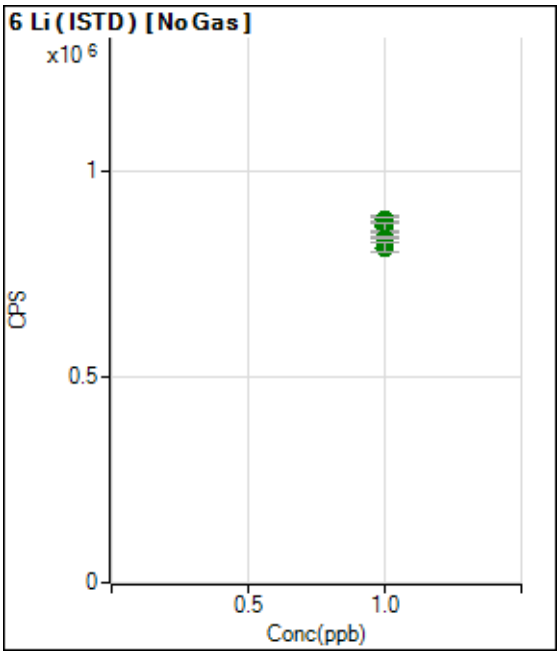
Weight: <None>
Min Conc: <None>



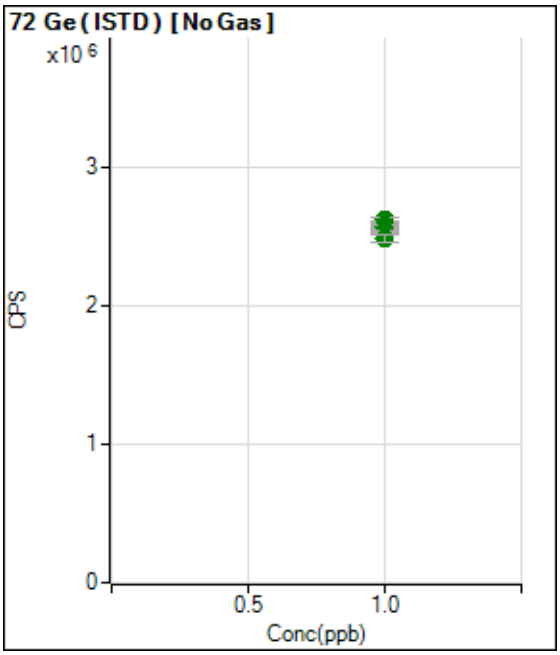
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	46.67	0.0000	P	34.4
2	☐	2.000	1.891	66095.44	0.0281	P	3.4
3	☐	5.000	4.734	162929.27	0.0704	P	4.2
4	☐	10.000	9.664	332548.38	0.1438	P	4.1
5	☐	100.000	98.235	3276195.58	1.4614	A	2.9
6	☐	200.000	200.907	6593887.61	2.9889	A	1.4

y = 0.0149 * x + 2.0152E-005
R = 0.9999
DL = 0.001399
BEC = 0.001355

Weight: <None>
Min Conc: <None>

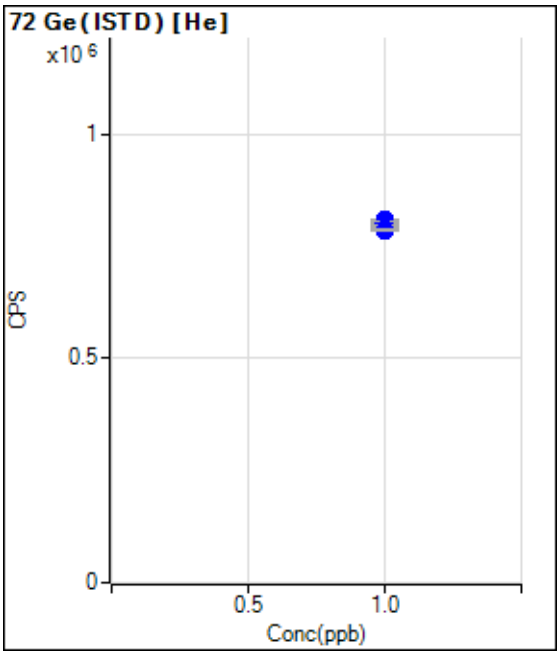


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		868082.83		A	4.7
2	☐	1.000		865767.95		A	3.1
3	☐	1.000		879987.20		A	1.6
4	☐	1.000		863195.78		A	1.7
5	☐	1.000		837208.57		A	0.4
6	☐	1.000		812550.14		A	3.0

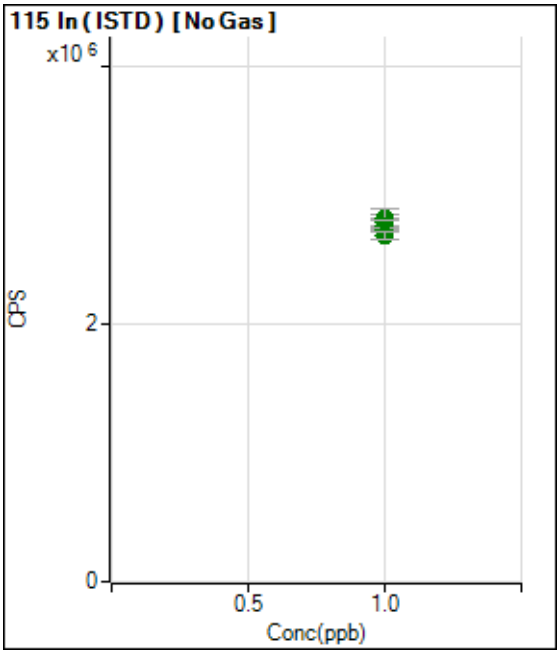


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2608275.27		A	1.2
2	☐	1.000		2626231.32		A	1.9
3	☐	1.000		2582822.31		A	0.4
4	☐	1.000		2578168.14		A	0.8
5	☐	1.000		2540984.70		A	0.5
6	☐	1.000		2497575.69		A	2.2

Calibration for 315_ICV.d

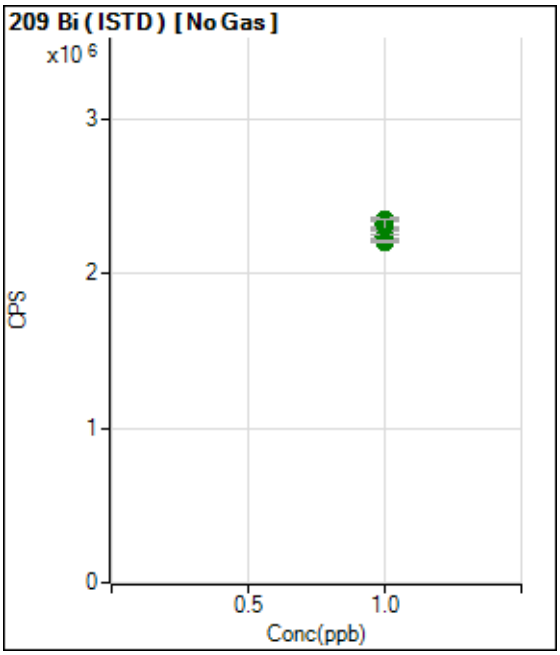


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		808277.75		P	0.1
2	☐	1.000		802731.24		P	0.3
3	☐	1.000		801424.16		P	1.9
4	☐	1.000		799388.53		P	1.0
5	☐	1.000		790287.41		P	1.8
6	☐	1.000		784574.99		P	0.5



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2794757.98		A	2.3
2	☐	1.000		2784761.45		A	4.2
3	☐	1.000		2816150.16		A	5.2
4	☐	1.000		2759776.00		A	2.9
5	☐	1.000		2737290.07		A	1.0
6	☐	1.000		2691225.11		A	2.2

Calibration for 315_ICV.d



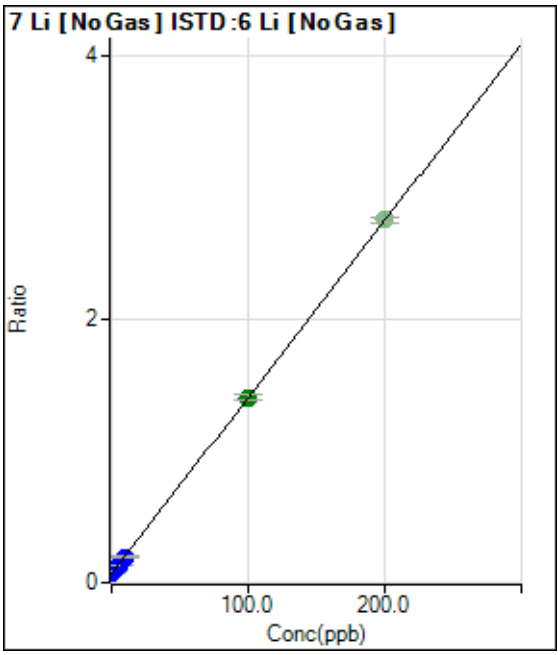
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2324964.65		A	2.4
2	☐	1.000		2348749.86		A	1.1
3	☐	1.000		2314620.49		A	2.6
4	☐	1.000		2314588.51		A	3.0
5	☐	1.000		2242381.32		A	1.4
6	☐	1.000		2206251.11		A	0.6

Calibration for 022_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\070723A.b\
Analysis File: 070723A.batch.bin
DA Date-Time: 7/7/2023 11:52:35 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	015CALB.d	CAL BLK	7/7/2023 11:02:17 AM
2	016CALS.d	2/10/200	7/7/2023 11:04:15 AM
3	017CALS.d	5/25/500	7/7/2023 11:06:11 AM
4	018CALS.d	10/50/100	7/7/2023 11:08:19 AM
5	019CALS.d	100/500/10K	7/7/2023 11:10:14 AM
6	020CALS.d	200/1000/20K	7/7/2023 11:12:07 AM

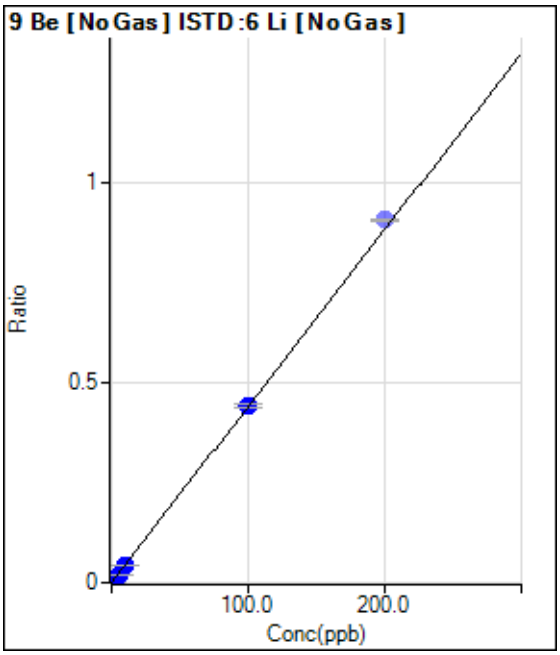
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	51500.58	0.0671	P	3.1
2	☐	2.000	1.918	71083.64	0.0927	P	1.5
3	☐	5.000	5.230	103128.24	0.1371	P	0.4
4	☐	10.000	9.597	153163.16	0.1955	P	3.0
5	☐	100.000	100.030	1041288.34	1.4059	A	3.4
6	☑	200.000		1997080.75	2.7515	A	1.5

y = 0.0134 * x + 0.0671
R = 1.0000
DL = 0.4734
BEC = 5.012

Weight: <None>
Min Conc: <None>

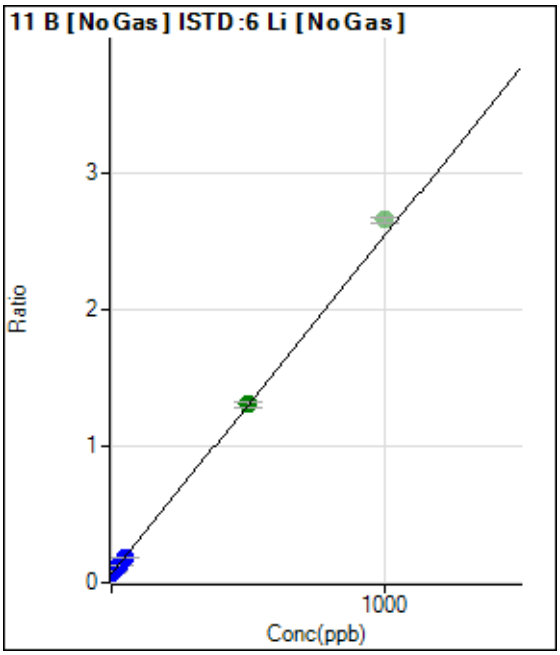


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15.00	0.0000	P	56.6
2	☐	2.000	1.863	6313.13	0.0082	P	4.7
3	☐	5.000	4.831	16034.23	0.0213	P	0.4
4	☐	10.000	9.475	32733.12	0.0418	P	2.1
5	☐	100.000	100.064	326625.45	0.4410	P	2.7
6	☑	200.000		657979.99	0.9065	P	0.7

y = 0.0044 * x + 1.9351E-005
R = 1.0000
DL = 0.007459
BEC = 0.004391

Weight: <None>
Min Conc: <None>

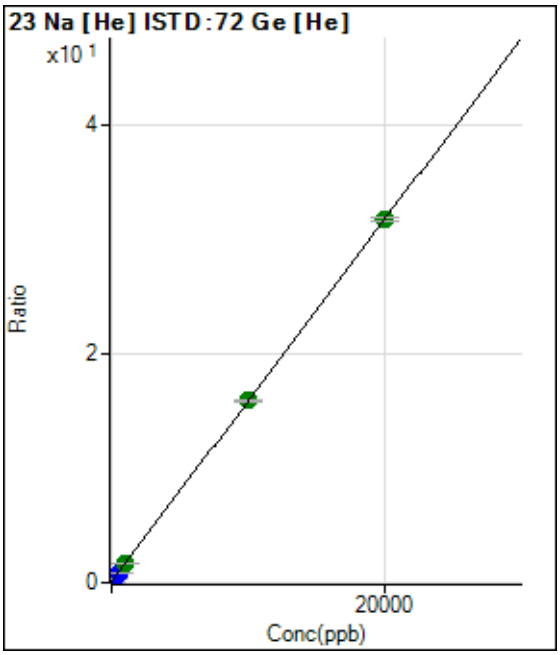
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50401.87	0.0656	P	2.2
2	☐	10.000	9.671	68606.52	0.0895	P	3.0
3	☐	25.000	25.040	95905.23	0.1275	P	1.4
4	☐	50.000	46.809	141996.00	0.1813	P	2.7
5	☐	500.000	500.324	963835.14	1.3014	A	2.6
6	☑	1000.000		1925562.11	2.6529	A	1.5

y = 0.0025 * x + 0.0656
R = 1.0000
DL = 1.764
BEC = 26.58

Weight: <None>
Min Conc: <None>

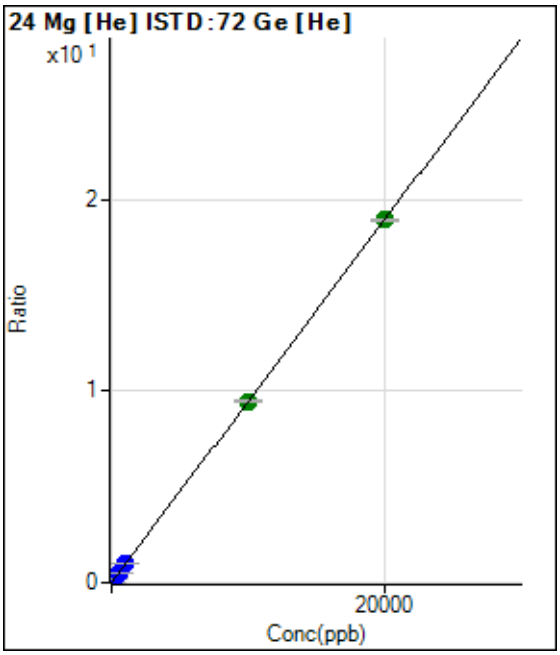


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	57809.75	0.0815	P	0.9
2	☐	200.000	205.013	290639.79	0.4056	P	1.6
3	☐	500.000	518.929	643342.70	0.9019	P	1.8
4	☐	1000.000	999.342	1180361.88	1.6614	A	1.5
5	☐	10000.00	10017.92	11232543.16	15.9197	A	0.7
6	☐	20000.00	19990.55	22199528.00	31.6863	A	1.1

y = 0.0016 * x + 0.0815
R = 1.0000
DL = 1.326
BEC = 51.54

Weight: <None>
Min Conc: <None>

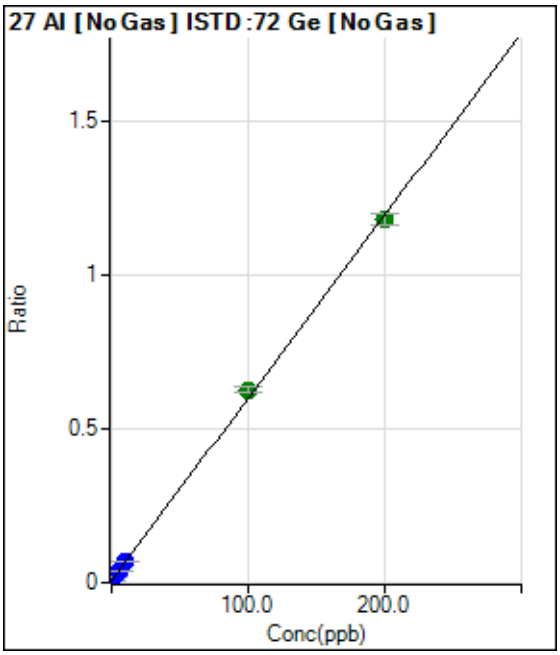
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	486.68	0.0007	P	24.1
2	☐	200.000	209.364	142566.82	0.1990	P	2.0
3	☐	500.000	529.890	358468.30	0.5025	P	1.8
4	☐	1000.000	1047.634	705443.69	0.9929	P	0.9
5	☐	10000.00	9990.883	6676217.40	9.4630	A	1.1
6	☐	20000.00	20001.33	13271985.22	18.9438	A	0.3

y = 9.4709E-004 * x + 6.8641E-004
R = 1.0000
DL = 0.5239
BEC = 0.7247

Weight: <None>
Min Conc: <None>

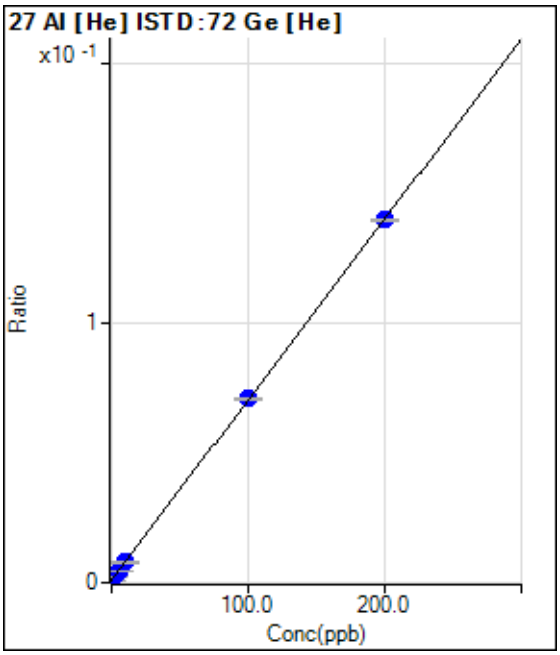


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15515.56	0.0068	P	1.2
2	☐	2.000	1.989	42171.11	0.0186	P	2.1
3	☐	5.000	5.545	89511.68	0.0397	P	3.0
4	☐	10.000	10.618	156716.02	0.0699	P	2.2
5	☐	100.000	104.675	1416560.87	0.6286	A	3.2
6	☐	200.000	197.618	2693190.48	1.1807	A	3.1

y = 0.0059 * x + 0.0068
R = 0.9996
DL = 0.04042
BEC = 1.145

Weight: <None>
Min Conc: <None>

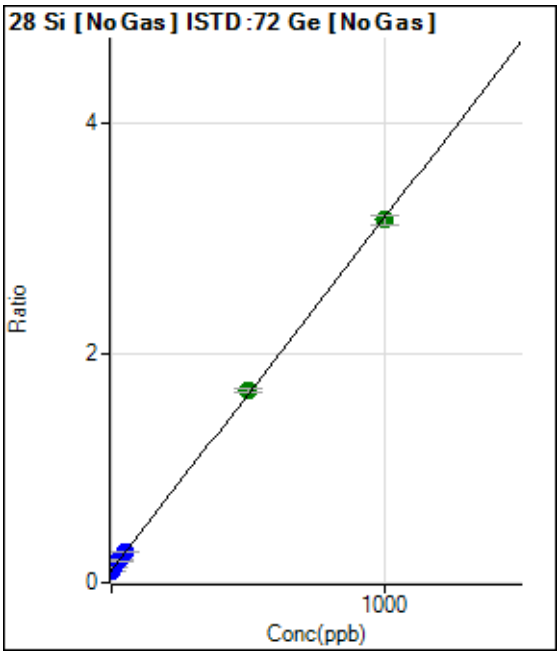
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	643.37	0.0009	P	12.7
2	☐	2.000	1.606	1450.11	0.0020	P	2.7
3	☐	5.000	5.029	3137.06	0.0044	P	7.6
4	☐	10.000	9.919	5541.22	0.0078	P	3.2
5	☐	100.000	100.555	49929.90	0.0708	P	1.6
6	☐	200.000	199.730	97859.57	0.1397	P	0.2

y = 6.9483E-004 * x + 9.0649E-004
R = 1.0000
DL = 0.4954
BEC = 1.305

Weight: <None>
Min Conc: <None>

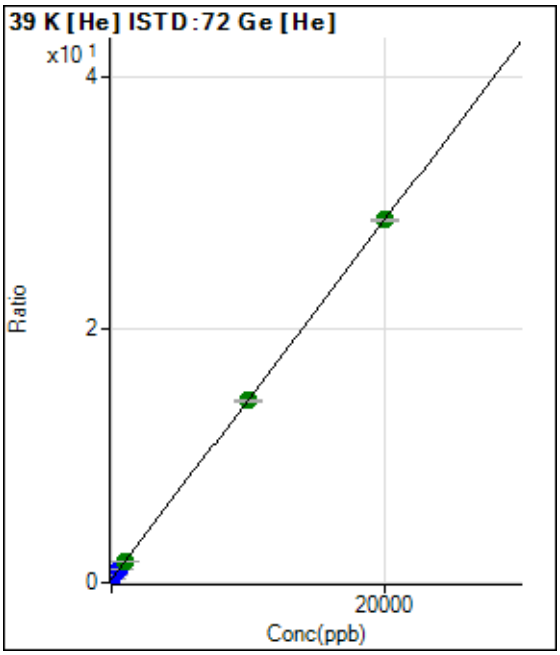


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	244670.59	0.1072	P	2.9
2	☐	10.000	10.436	315595.99	0.1393	P	1.0
3	☐	25.000	27.890	434499.94	0.1930	P	4.8
4	☐	50.000	53.977	612676.16	0.2731	P	0.9
5	☐	500.000	511.829	3786982.34	1.6802	A	2.1
6	☐	1000.000	993.810	7210364.89	3.1614	A	2.3

y = 0.0031 * x + 0.1072
R = 0.9999
DL = 3.084
BEC = 34.9

Weight: <None>
Min Conc: <None>

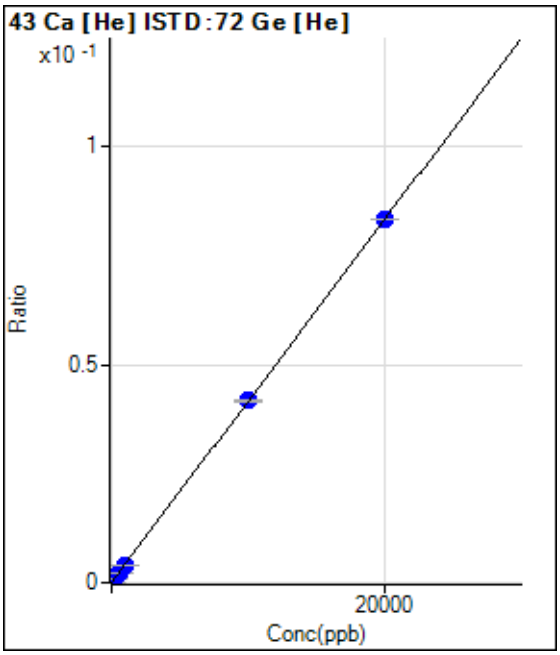
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	190542.86	0.2686	P	0.8
2	☐	200.000	195.675	391470.18	0.5464	P	1.9
3	☐	500.000	512.658	710705.93	0.9963	P	1.5
4	☐	1000.000	1029.770	1229510.32	1.7303	A	1.9
5	☐	10000.00	9949.504	10154039.43	14.3915	A	1.6
6	☐	20000.00	20023.48	20100326.78	28.6912	A	0.7

y = 0.0014 * x + 0.2686
R = 1.0000
DL = 4.797
BEC = 189.2

Weight: <None>
Min Conc: <None>

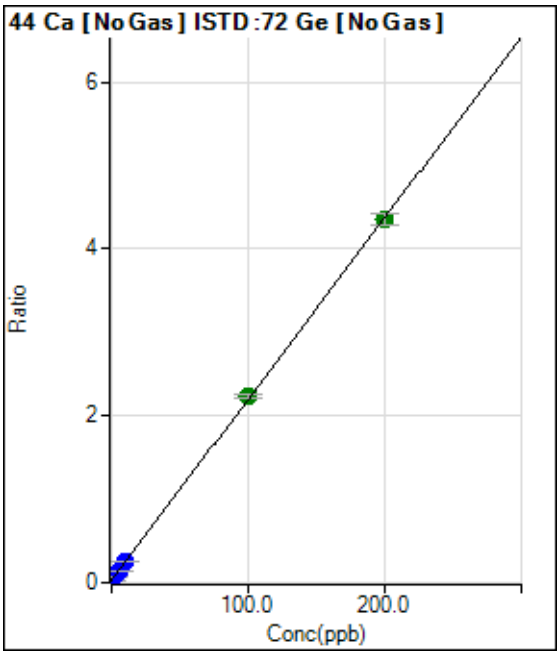


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	36.67	0.0001	P	42.0
2	☐	200.000	185.762	590.03	0.0008	P	3.5
3	☐	500.000	498.358	1513.45	0.0021	P	4.5
4	☐	1000.000	954.285	2853.69	0.0040	P	1.8
5	☐	10000.00	10014.52	29398.39	0.0417	P	0.6
6	☐	20000.00	19995.20	58243.58	0.0831	P	0.2

y = 4.1552E-006 * x + 5.1754E-005
R = 1.0000
DL = 15.68
BEC = 12.46

Weight: <None>
Min Conc: <None>

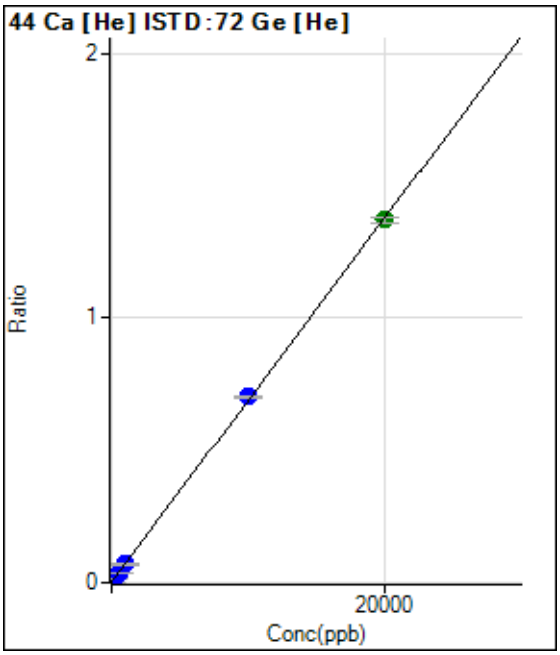
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63194.92	0.0277	P	2.7
2	☐	2.000	2.144	168157.35	0.0742	P	2.1
3	☐	5.000	5.334	323301.06	0.1435	P	2.4
4	☐	10.000	10.665	581561.36	0.2593	P	1.6
5	☐	100.000	101.898	5049757.95	2.2404	A	1.7
6	☐	200.000	199.008	9917877.56	4.3490	A	3.3

y = 0.0217 * x + 0.0277
R = 0.9999
DL = 0.1041
BEC = 1.276

Weight: <None>
Min Conc: <None>

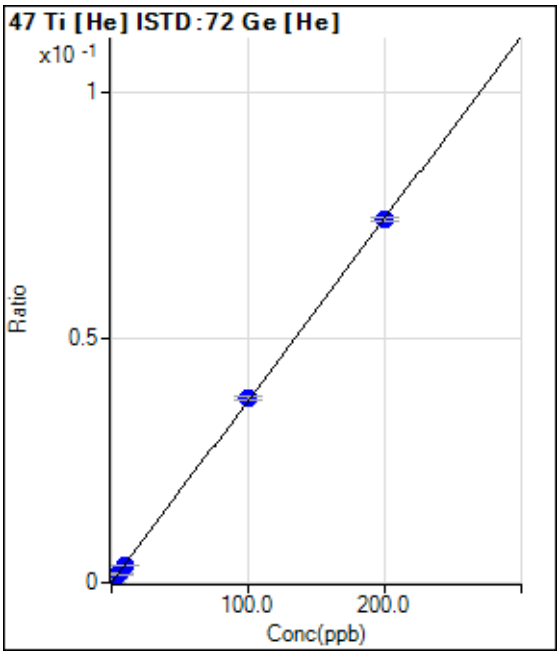


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1146.74	0.0016	P	14.5
2	☐	200.000	204.755	11244.82	0.0157	P	3.1
3	☐	500.000	496.654	25504.02	0.0357	P	2.5
4	☐	1000.000	984.330	49204.76	0.0692	P	1.9
5	☐	10000.00	10180.50	494648.35	0.7011	P	0.8
6	☐	20000.00	19910.56	959459.38	1.3696	A	1.6

y = 6.8709E-005 * x + 0.0016
R = 0.9999
DL = 10.21
BEC = 23.52

Weight: <None>
Min Conc: <None>

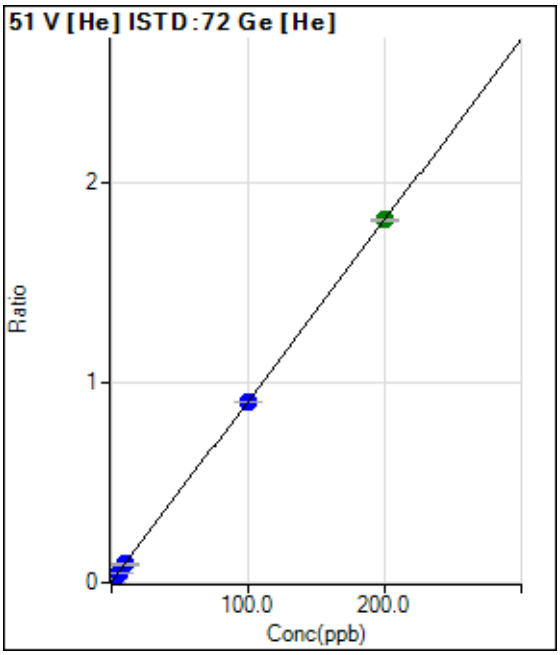
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	69.6
2	☐	2.000	1.775	490.02	0.0007	P	21.8
3	☐	5.000	4.900	1316.76	0.0018	P	12.9
4	☐	10.000	9.594	2546.96	0.0036	P	3.8
5	☐	100.000	101.479	26599.40	0.0377	P	1.7
6	☐	200.000	199.285	51854.66	0.0740	P	1.1

y = 3.7131E-004 * x + 2.3530E-005
R = 1.0000
DL = 0.1324
BEC = 0.06337

Weight: <None>
Min Conc: <None>

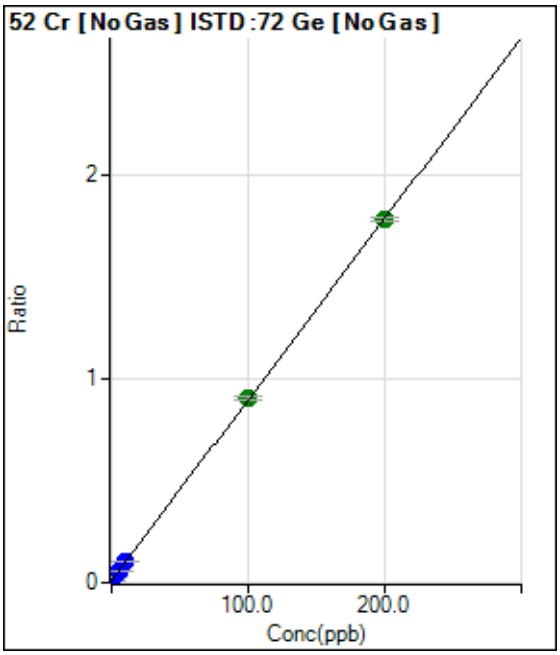


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3111.48	0.0044	P	4.3
2	☐	2.000	1.948	15795.82	0.0220	P	0.6
3	☐	5.000	4.917	34912.17	0.0490	P	3.1
4	☐	10.000	9.617	65037.97	0.0915	P	1.0
5	☐	100.000	99.855	641648.29	0.9094	P	0.2
6	☐	200.000	200.094	1273617.38	1.8179	A	0.6

y = 0.0091 * x + 0.0044
R = 1.0000
DL = 0.06269
BEC = 0.484

Weight: <None>
Min Conc: <None>

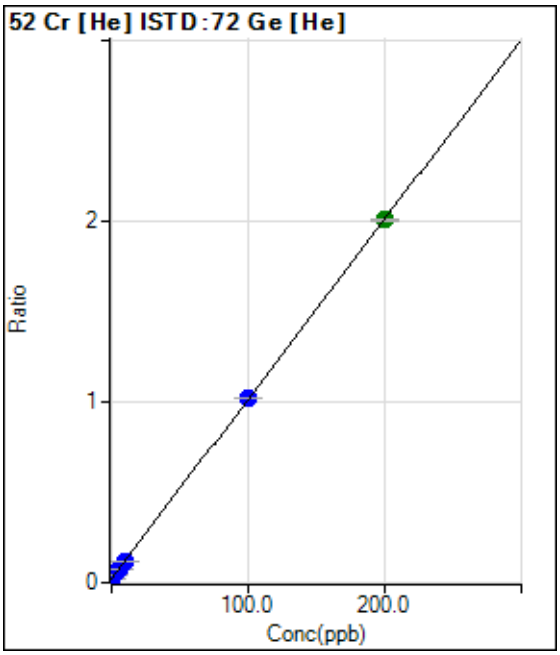
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22047.99	0.0097	P	2.8
2	☐	2.000	2.093	63993.04	0.0282	P	1.0
3	☐	5.000	5.218	126113.89	0.0560	P	2.8
4	☐	10.000	10.389	228561.23	0.1019	P	1.2
5	☐	100.000	101.032	2043253.56	0.9066	A	2.4
6	☐	200.000	199.458	4061475.56	1.7804	A	0.9

y = 0.0089 * x + 0.0097
R = 1.0000
DL = 0.09004
BEC = 1.089

Weight: <None>
Min Conc: <None>

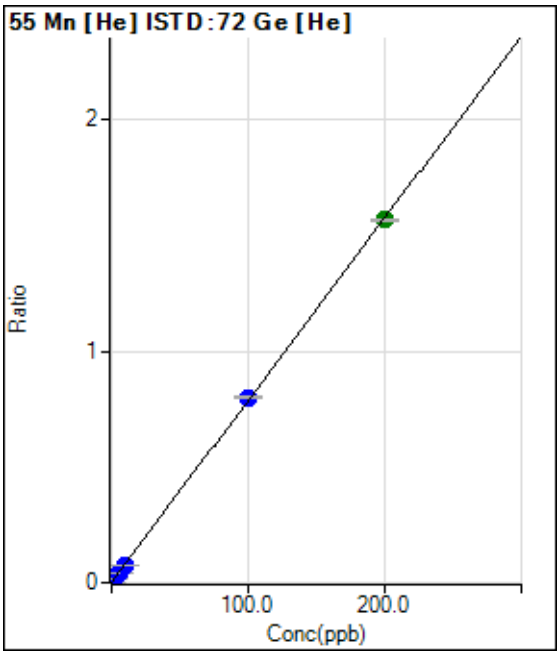


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15835.98	0.0223	P	2.9
2	☐	2.000	1.912	29615.78	0.0413	P	3.4
3	☐	5.000	5.070	51888.73	0.0727	P	1.4
4	☐	10.000	9.906	85851.67	0.1208	P	1.5
5	☐	100.000	100.522	720962.72	1.0219	P	0.9
6	☐	200.000	199.743	1407080.76	2.0085	A	0.8

y = 0.0099 * x + 0.0223
R = 1.0000
DL = 0.1987
BEC = 2.245

Weight: <None>
Min Conc: <None>

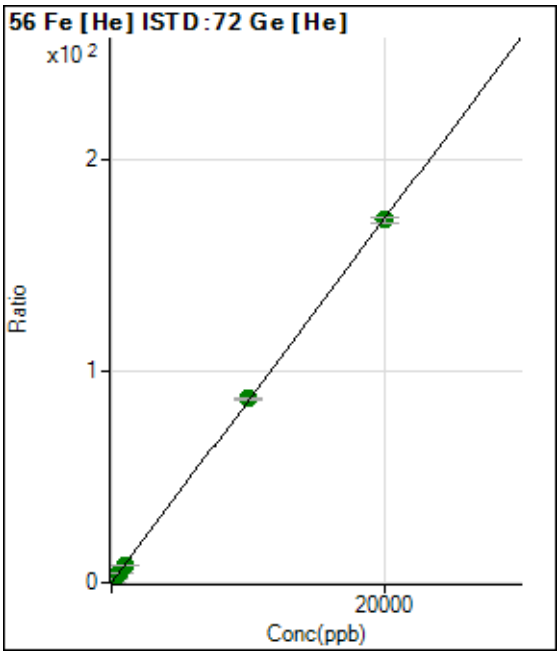
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	833.38	0.0012	P	16.9
2	☐	2.000	1.969	11938.80	0.0167	P	2.7
3	☐	5.000	5.010	28944.32	0.0406	P	2.9
4	☐	10.000	9.796	55569.85	0.0782	P	0.7
5	☐	100.000	101.727	565268.81	0.8013	P	1.7
6	☐	200.000	199.147	1098129.75	1.5675	A	0.7

y = 0.0079 * x + 0.0012
R = 0.9999
DL = 0.07588
BEC = 0.1494

Weight: <None>
Min Conc: <None>

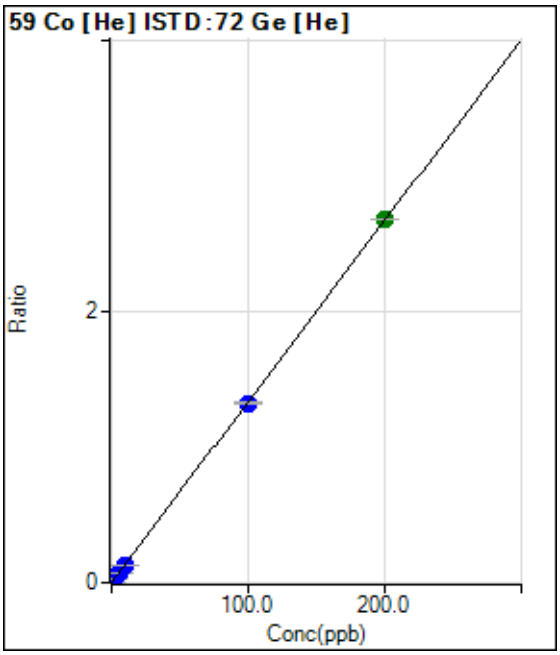


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	17374.61	0.0245	P	3.8
2	☐	200.000	204.472	1275258.23	1.7798	A	2.7
3	☐	500.000	511.425	3149039.95	4.4150	A	2.2
4	☐	1000.000	975.721	5968639.08	8.4009	A	1.4
5	☐	10000.00	10112.44	61264950.75	86.8378	A	1.0
6	☐	20000.00	19944.66	119960748.2	171.245	A	1.5

y = 0.0086 * x + 0.0245
R = 1.0000
DL = 0.3284
BEC = 2.853

Weight: <None>
Min Conc: <None>

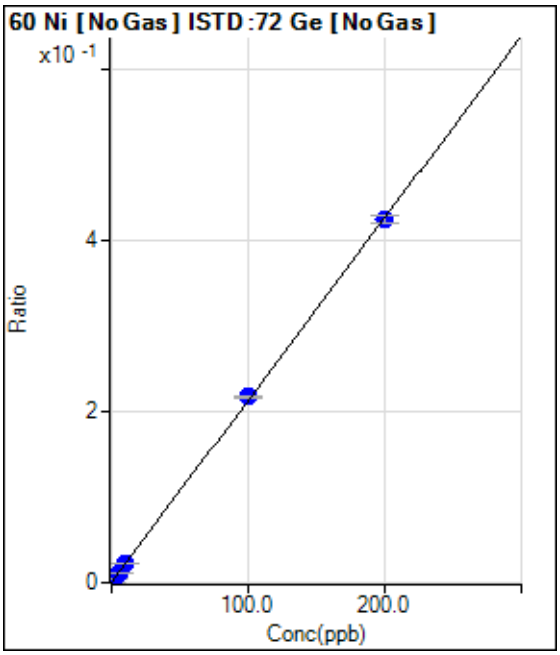
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	80.00	0.0001	P	33.5
2	☐	2.000	1.950	18756.52	0.0262	P	2.5
3	☐	5.000	4.937	47151.71	0.0661	P	2.7
4	☐	10.000	9.684	92016.56	0.1295	P	0.6
5	☐	100.000	98.984	933318.19	1.3229	P	0.9
6	☐	200.000	200.526	1877429.50	2.6798	A	0.1

y = 0.0134 * x + 1.1287E-004
R = 1.0000
DL = 0.008483
BEC = 0.008446

Weight: <None>
Min Conc: <None>

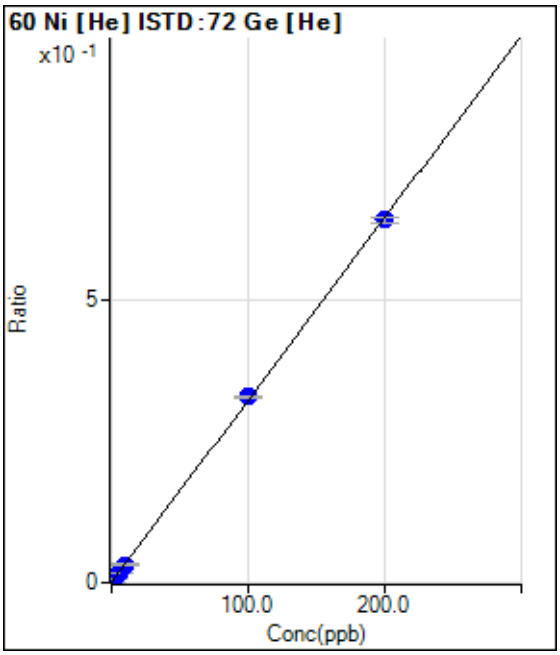


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	760.04	0.0003	P	5.4
2	☐	2.000	2.031	10537.55	0.0047	P	2.3
3	☐	5.000	5.207	25701.32	0.0114	P	1.2
4	☐	10.000	10.270	49737.92	0.0222	P	2.1
5	☐	100.000	101.810	488742.31	0.2168	P	1.8
6	☐	200.000	199.076	966331.55	0.4237	P	2.2

y = 0.0021 * x + 3.3324E-004
R = 0.9999
DL = 0.02523
BEC = 0.1567

Weight: <None>
Min Conc: <None>

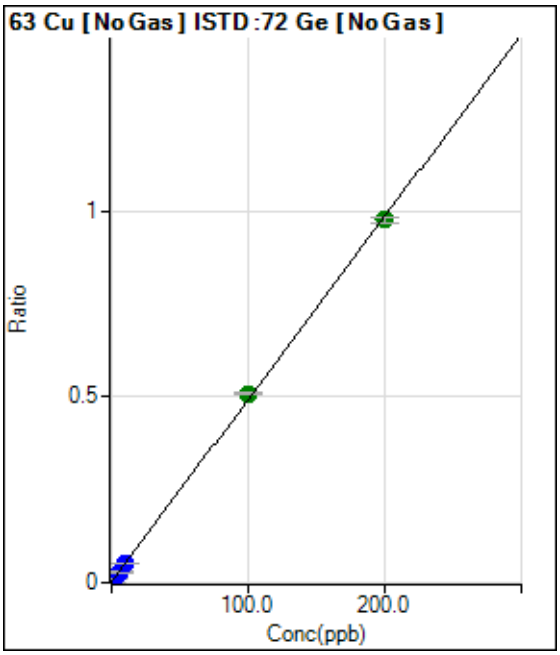
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	313.34	0.0004	P	9.7
2	☐	2.000	1.971	4874.30	0.0068	P	3.4
3	☐	5.000	5.195	12265.70	0.0172	P	5.1
4	☐	10.000	9.845	22882.92	0.0322	P	2.9
5	☐	100.000	102.069	232682.88	0.3298	P	1.2
6	☐	200.000	198.969	450068.42	0.6425	P	1.3

y = 0.0032 * x + 4.4154E-004
R = 0.9999
DL = 0.03983
BEC = 0.1368

Weight: <None>
Min Conc: <None>

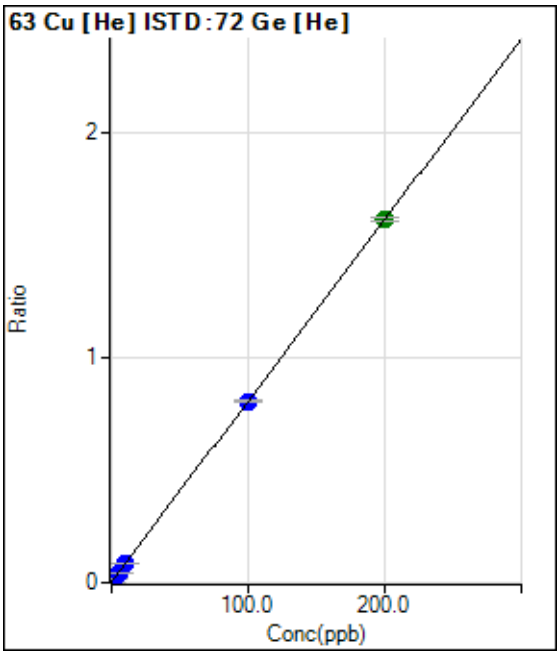


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5157.74	0.0023	P	3.7
2	☐	2.000	2.034	27735.13	0.0122	P	4.2
3	☐	5.000	5.271	63394.55	0.0282	P	4.2
4	☐	10.000	10.324	118795.61	0.0530	P	3.1
5	☐	100.000	103.283	1149047.40	0.5096	A	1.4
6	☐	200.000	198.335	2227422.42	0.9765	A	1.5

y = 0.0049 * x + 0.0023
R = 0.9998
DL = 0.05156
BEC = 0.4601

Weight: <None>
Min Conc: <None>

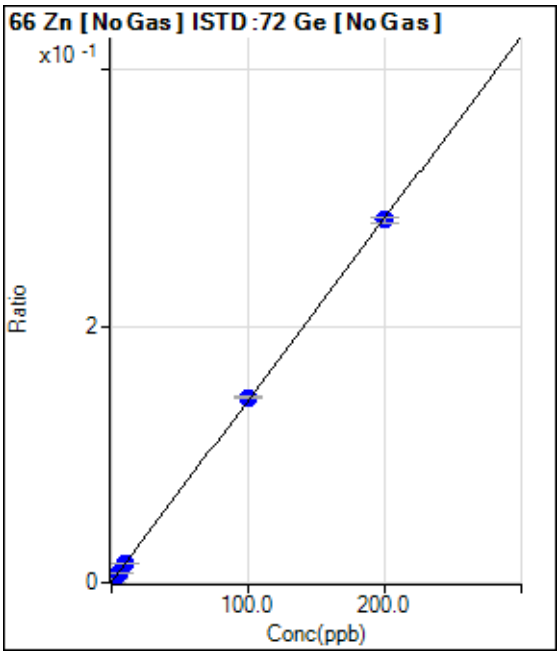
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2210.22	0.0031	P	8.5
2	☐	2.000	1.990	13720.49	0.0192	P	3.3
3	☐	5.000	5.076	31399.95	0.0440	P	1.2
4	☐	10.000	9.834	58516.26	0.0824	P	1.3
5	☐	100.000	99.984	570647.09	0.8088	P	0.8
6	☐	200.000	200.015	1131334.98	1.6148	A	1.1

y = 0.0081 * x + 0.0031
R = 1.0000
DL = 0.09814
BEC = 0.3867

Weight: <None>
Min Conc: <None>

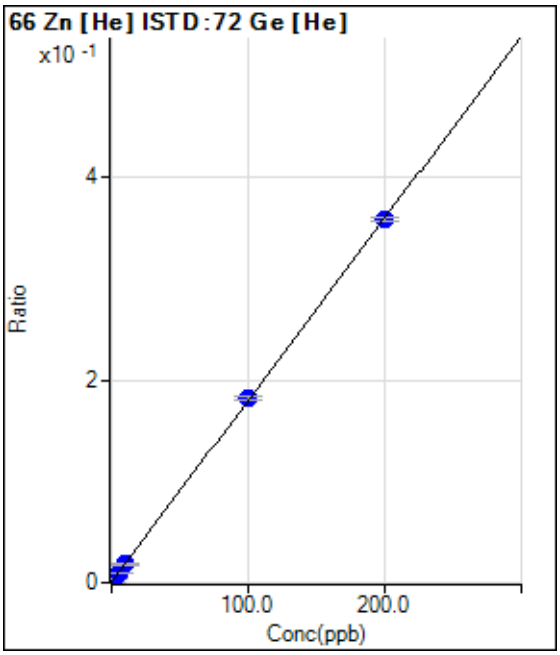


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1163.41	0.0005	P	4.8
2	☐	2.000	1.929	7355.45	0.0032	P	1.7
3	☐	5.000	5.184	17721.91	0.0079	P	1.3
4	☐	10.000	10.131	33368.08	0.0149	P	4.9
5	☐	100.000	101.629	326128.99	0.1447	P	1.4
6	☐	200.000	199.175	645685.34	0.2831	P	1.4

y = 0.0014 * x + 5.1011E-004
R = 1.0000
DL = 0.05152
BEC = 0.3596

Weight: <None>
Min Conc: <None>

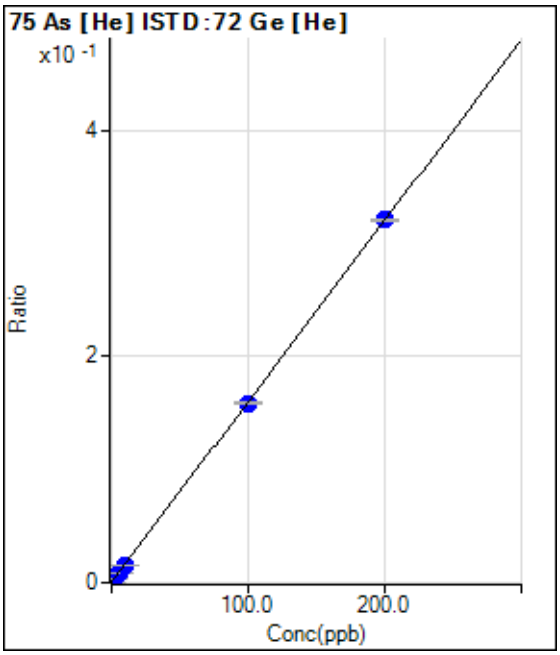
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	380.01	0.0005	P	27.7
2	☐	2.000	2.062	3040.40	0.0042	P	8.4
3	☐	5.000	4.924	6691.76	0.0094	P	1.9
4	☐	10.000	9.757	12829.60	0.0181	P	2.9
5	☐	100.000	101.614	129160.05	0.1831	P	1.9
6	☐	200.000	199.206	251053.92	0.3584	P	1.0

y = 0.0018 * x + 5.3556E-004
R = 1.0000
DL = 0.2477
BEC = 0.2981

Weight: <None>
Min Conc: <None>

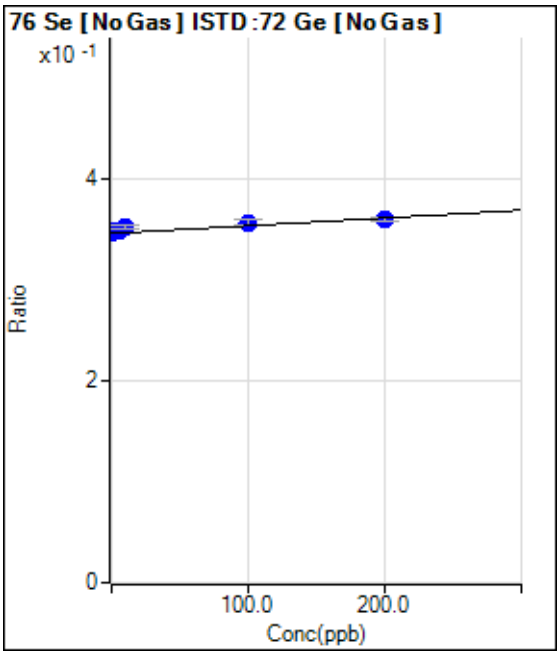


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	276.67	0.0004	P	10.1
2	☐	2.000	1.914	2470.24	0.0034	P	2.0
3	☐	5.000	4.817	5765.71	0.0081	P	0.5
4	☐	10.000	9.698	11279.20	0.0159	P	0.6
5	☐	100.000	99.133	111947.95	0.1587	P	1.3
6	☐	200.000	200.454	224498.49	0.3205	P	0.6

y = 0.0016 * x + 3.9013E-004
R = 1.0000
DL = 0.0742
BEC = 0.2443

Weight: <None>
Min Conc: <None>

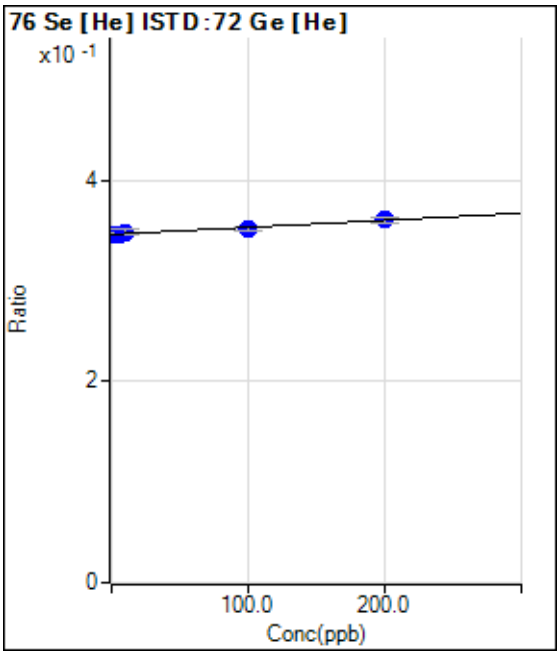
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	791056.81	0.3467	P	2.0
2	☐	2.000	22.572	789343.30	0.3484	P	0.7
3	☐	5.000	41.779	788420.54	0.3499	P	1.1
4	☐	10.000	84.368	792416.11	0.3532	P	1.2
5	☐	100.000	141.325	806014.65	0.3576	P	1.7
6	☐	200.000	174.494	821584.13	0.3601	P	1.0

y = 7.7100E-005 * x + 0.3467
R = 0.9072
DL = 275.5
BEC = 4497

Weight: <None>
Min Conc: <None>

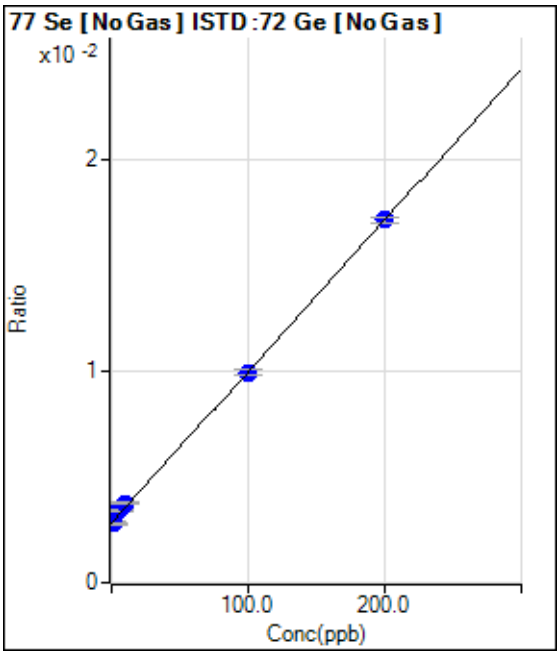


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	245733.51	0.3464	P	2.0
2	☐	2.000	7.889	248635.34	0.3470	P	1.8
3	☐	5.000	6.497	247472.25	0.3469	P	0.7
4	☐	10.000	36.221	247944.35	0.3490	P	1.2
5	☐	100.000	88.933	248803.54	0.3527	P	1.1
6	☐	200.000	204.126	252720.28	0.3608	P	1.7

y = 7.0290E-005 * x + 0.3464
R = 0.9890
DL = 293
BEC = 4928

Weight: <None>
Min Conc: <None>

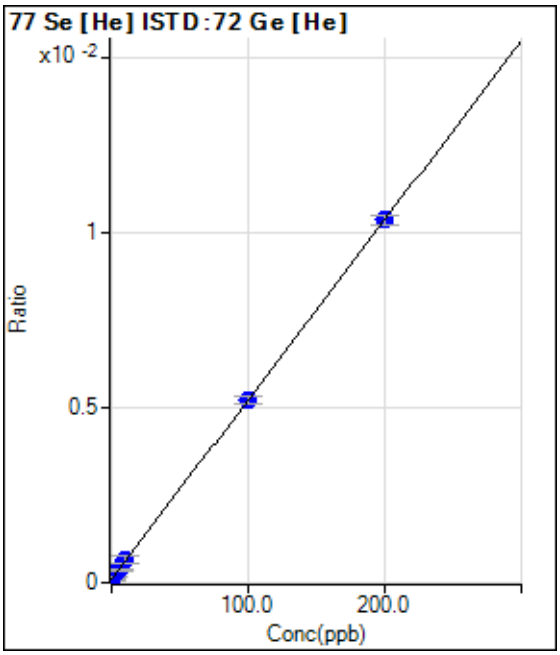
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6454.99	0.0028	P	4.3
2	☐	2.000	-0.330	6348.28	0.0028	P	4.1
3	☐	5.000	8.173	7682.32	0.0034	P	4.3
4	☐	10.000	13.086	8442.78	0.0038	P	3.2
5	☐	100.000	99.386	22392.20	0.0099	P	2.9
6	☐	200.000	200.097	39100.49	0.0171	P	1.9

y = 7.1532E-005 * x + 0.0028
R = 0.9997
DL = 5.1
BEC = 39.52

Weight: <None>
Min Conc: <None>

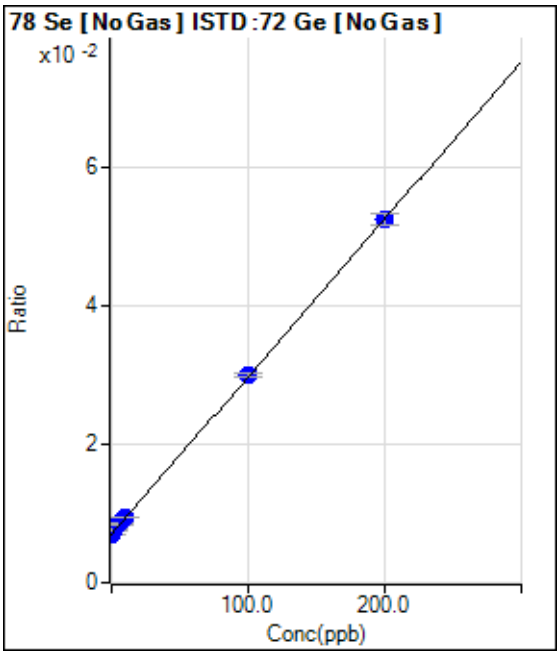


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	70.00	0.0001	P	38.1
2	☐	2.000	2.534	163.34	0.0002	P	37.9
3	☐	5.000	5.363	266.67	0.0004	P	13.5
4	☐	10.000	11.144	476.69	0.0007	P	30.0
5	☐	100.000	99.460	3673.91	0.0052	P	4.3
6	☐	200.000	200.198	7275.44	0.0104	P	2.9

y = 5.1377E-005 * x + 9.8737E-005
R = 1.0000
DL = 2.198
BEC = 1.922

Weight: <None>
Min Conc: <None>

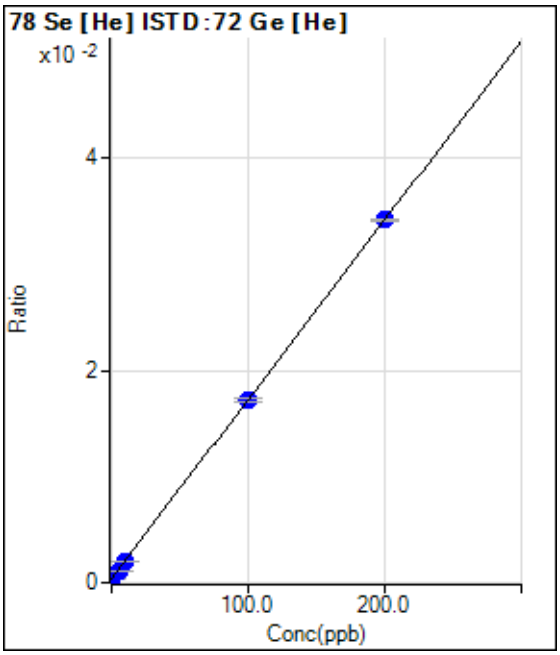
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15959.72	0.0070	P	1.3
2	☐	2.000	2.724	17244.63	0.0076	P	1.2
3	☐	5.000	6.487	19063.70	0.0085	P	5.2
4	☐	10.000	10.683	21130.20	0.0094	P	1.7
5	☐	100.000	100.756	67341.42	0.0299	P	2.0
6	☐	200.000	199.543	119315.81	0.0523	P	3.1

y = 2.2712E-004 * x + 0.0070
R = 1.0000
DL = 1.226
BEC = 30.79

Weight: <None>
Min Conc: <None>

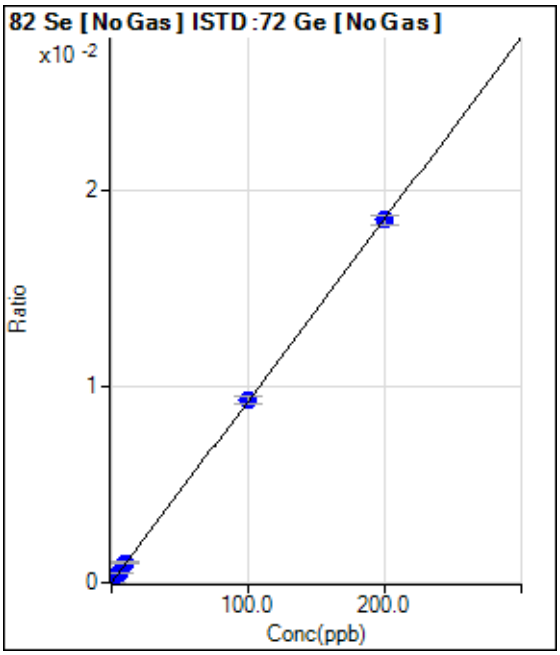


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	278.67	0.0004	P	7.1
2	☐	2.000	1.784	498.01	0.0007	P	6.8
3	☐	5.000	4.297	798.03	0.0011	P	7.1
4	☐	10.000	9.235	1387.41	0.0020	P	2.4
5	☐	100.000	99.666	12153.49	0.0172	P	2.4
6	☐	200.000	200.225	23969.28	0.0342	P	0.3

y = 1.6892E-004 * x + 3.9289E-004
R = 1.0000
DL = 0.4927
BEC = 2.326

Weight: <None>
Min Conc: <None>

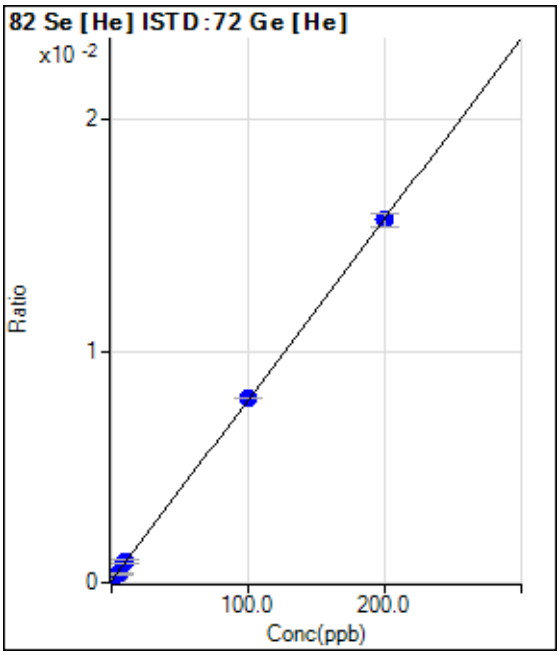
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-59.79	0.0000	P	-170.1
2	☐	2.000	2.821	534.12	0.0002	P	9.9
3	☐	5.000	5.493	1090.82	0.0005	P	9.2
4	☐	10.000	10.906	2211.05	0.0010	P	5.1
5	☐	100.000	100.476	20954.12	0.0093	P	3.8
6	☐	200.000	199.696	42211.76	0.0185	P	2.5

y = 9.2809E-005 * x - 2.6186E-005
R = 1.0000
DL = 1.44
BEC = -0.2821

Weight: <None>
Min Conc: <None>

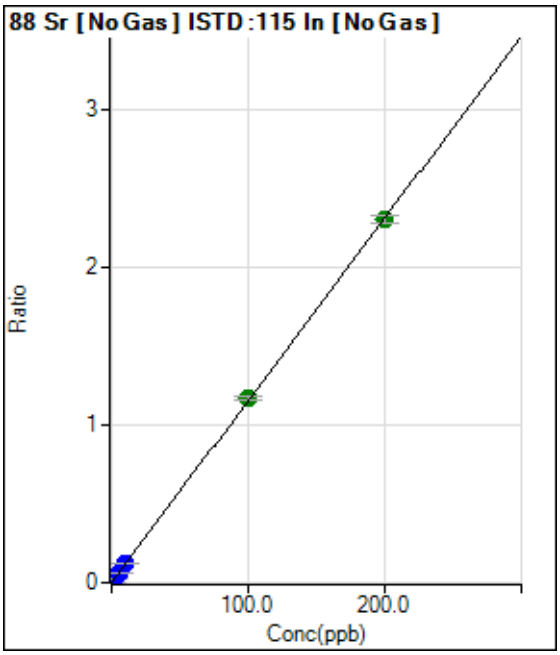


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	56.67	0.0001	P	44.0
2	☐	2.000	1.828	160.00	0.0002	P	23.4
3	☐	5.000	4.108	286.68	0.0004	P	15.2
4	☐	10.000	10.251	626.69	0.0009	P	18.1
5	☐	100.000	100.840	5617.94	0.0080	P	0.5
6	☐	200.000	199.591	10988.00	0.0157	P	3.5

y = 7.8165E-005 * x + 7.9791E-005
R = 1.0000
DL = 1.348
BEC = 1.021

Weight: <None>
Min Conc: <None>

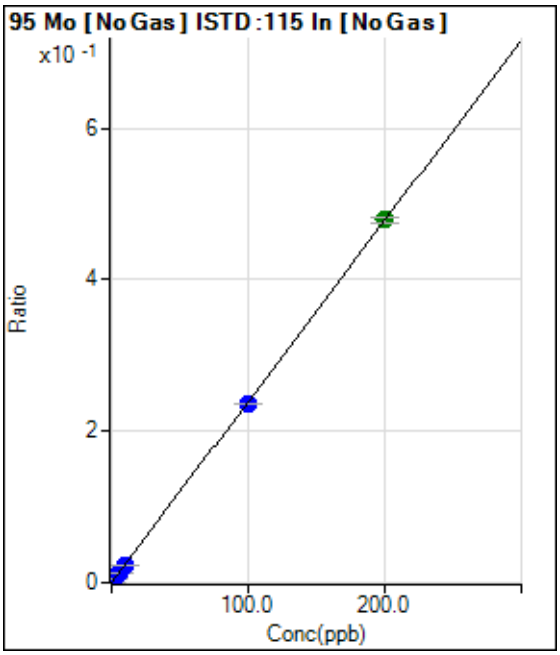
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	880.05	0.0004	P	11.2
2	☐	2.000	2.088	59388.56	0.0245	P	2.3
3	☐	5.000	5.183	146775.88	0.0603	P	1.0
4	☐	10.000	10.284	290695.15	0.1192	P	0.6
5	☐	100.000	101.373	2834415.27	1.1721	A	1.9
6	☐	200.000	199.294	5489292.63	2.3040	A	1.9

y = 0.0116 * x + 3.6115E-004
R = 1.0000
DL = 0.01054
BEC = 0.03124

Weight: <None>
Min Conc: <None>

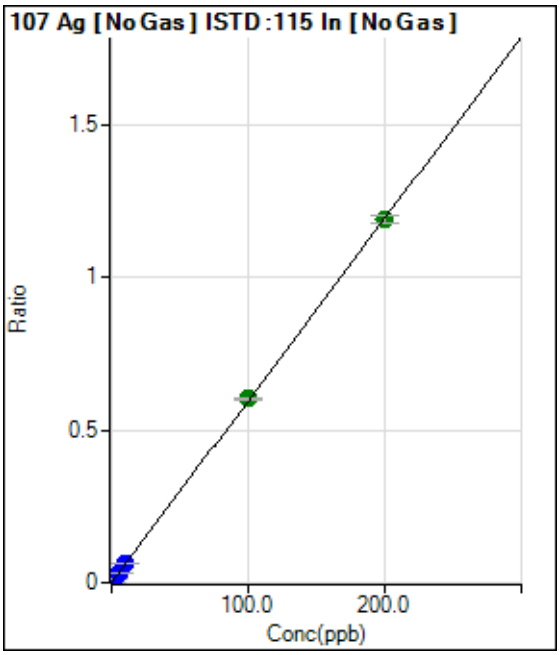


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	463.35	0.0002	P	10.7
2	☐	2.000	1.932	11625.27	0.0048	P	6.2
3	☐	5.000	4.829	28520.84	0.0117	P	1.7
4	☐	10.000	9.721	57019.03	0.0234	P	1.3
5	☐	100.000	98.851	570836.59	0.2361	P	0.6
6	☐	200.000	200.593	1140750.22	0.4788	A	1.6

y = 0.0024 * x + 1.9009E-004
R = 1.0000
DL = 0.0255
BEC = 0.07966

Weight: <None>
Min Conc: <None>

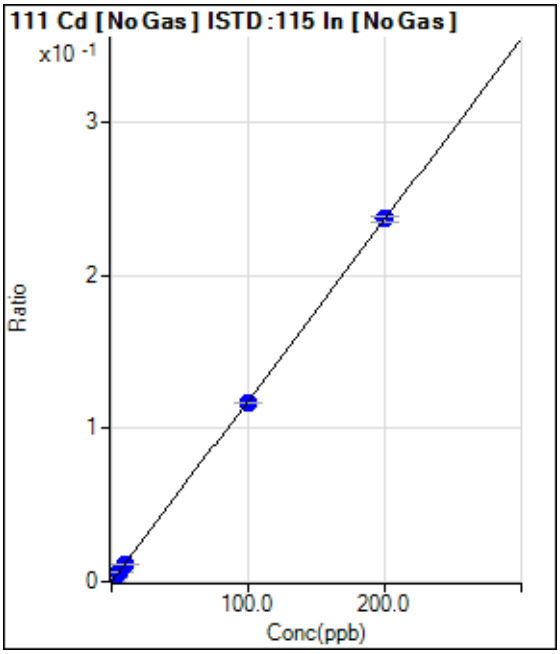
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	113.33	0.0000	P	16.3
2	☐	2.000	2.002	28978.95	0.0120	P	1.7
3	☐	5.000	5.075	73631.21	0.0302	P	0.4
4	☐	10.000	10.155	147391.43	0.0605	P	1.1
5	☐	100.000	101.021	1453248.62	0.6010	A	1.2
6	☐	200.000	199.480	2826762.36	1.1866	A	2.0

y = 0.0059 * x + 4.6686E-005
R = 1.0000
DL = 0.003828
BEC = 0.007848

Weight: <None>
Min Conc: <None>

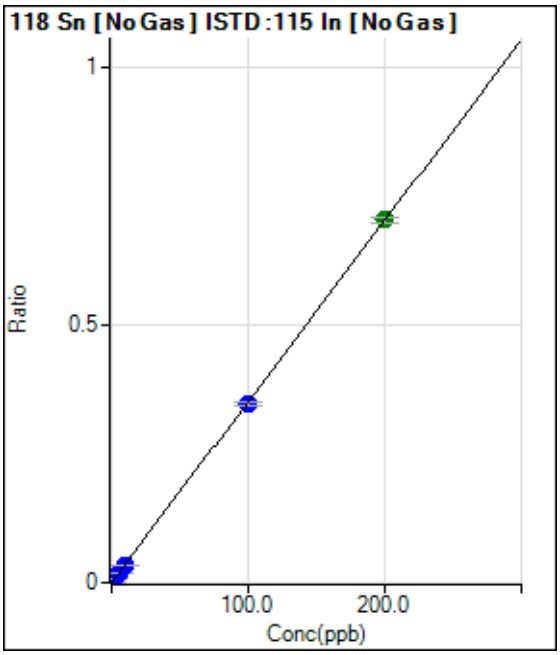


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	173.2
2	☐	2.000	1.985	5687.82	0.0023	P	1.5
3	☐	5.000	4.950	14232.26	0.0058	P	1.1
4	☐	10.000	9.911	28516.83	0.0117	P	3.2
5	☐	100.000	98.981	282441.10	0.1168	P	0.6
6	☐	200.000	200.515	563653.33	0.2366	P	1.8

y = 0.0012 * x + 2.7096E-006
R = 1.0000
DL = 0.01193
BEC = 0.002296

Weight: <None>
Min Conc: <None>

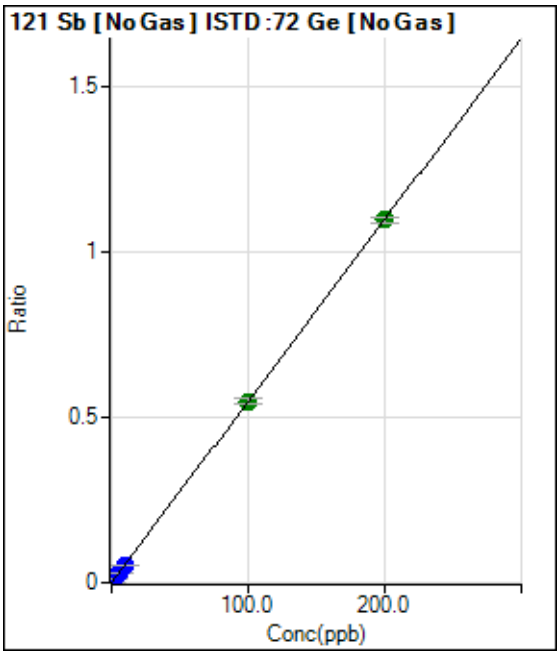
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	903.39	0.0004	P	14.1
2	☐	2.000	2.000	17902.46	0.0074	P	5.0
3	☐	5.000	4.967	43335.30	0.0178	P	2.3
4	☐	10.000	9.789	84628.90	0.0347	P	1.1
5	☐	100.000	99.014	840764.26	0.3477	P	2.0
6	☐	200.000	200.504	1676793.83	0.7037	A	1.9

y = 0.0035 * x + 3.7196E-004
R = 1.0000
DL = 0.0447
BEC = 0.106

Weight: <None>
Min Conc: <None>

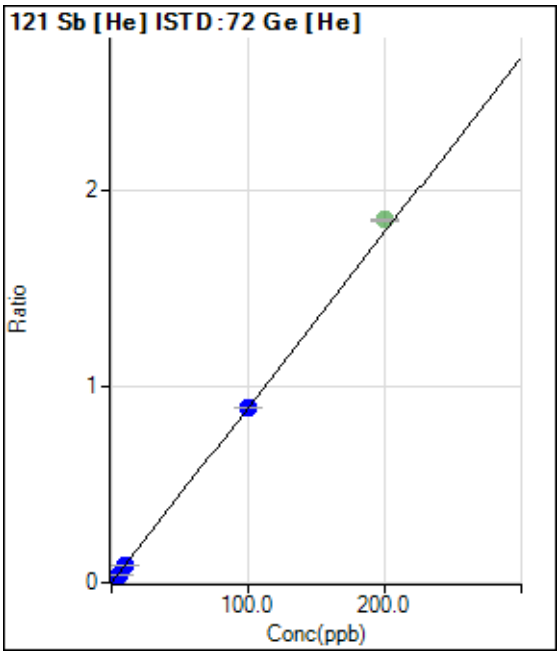


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	120.00	0.0001	P	34.8
2	☐	2.000	1.955	24379.61	0.0108	P	3.7
3	☐	5.000	4.956	61293.32	0.0272	P	3.2
4	☐	10.000	9.879	121560.38	0.0542	P	1.1
5	☐	100.000	100.073	1235981.80	0.5484	A	2.9
6	☐	200.000	199.971	2499665.53	1.0959	A	1.8

y = 0.0055 * x + 5.2340E-005
R = 1.0000
DL = 0.009982
BEC = 0.009551

Weight: <None>
Min Conc: <None>

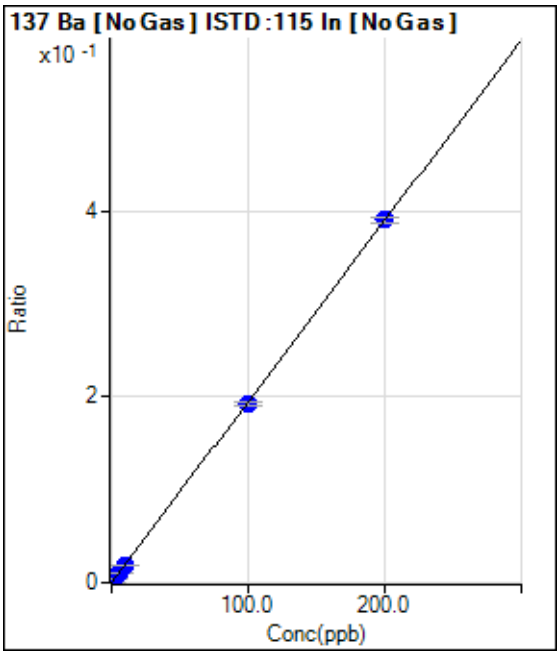
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.33	0.0000	P	46.2
2	☐	2.000	1.839	11822.23	0.0165	P	4.3
3	☐	5.000	4.704	30075.02	0.0421	P	1.3
4	☐	10.000	9.548	60730.78	0.0855	P	4.5
5	☐	100.000	100.063	631875.70	0.8956	P	0.6
6	☑	200.000		1298993.31	1.8542	A	0.8

y = 0.0089 * x + 4.7053E-005
R = 1.0000
DL = 0.007289
BEC = 0.005257

Weight: <None>
Min Conc: <None>

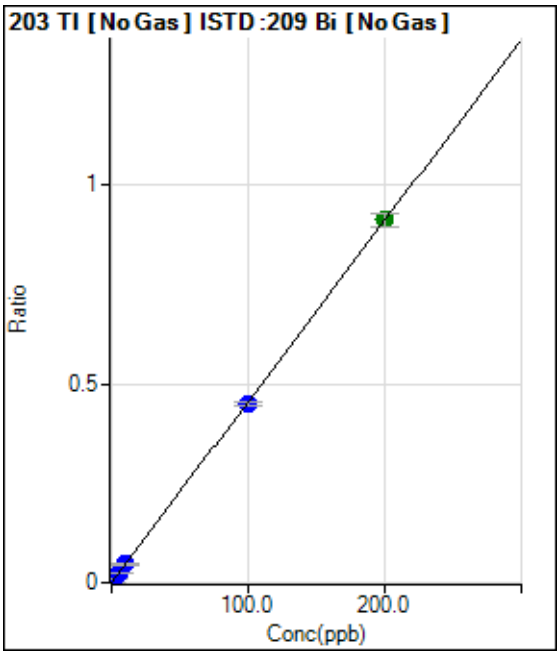


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	170.00	0.0001	P	3.5
2	☐	2.000	2.067	9920.63	0.0041	P	1.9
3	☐	5.000	5.047	24082.71	0.0099	P	0.7
4	☐	10.000	9.664	45992.01	0.0189	P	2.0
5	☐	100.000	98.892	465302.65	0.1924	P	1.3
6	☐	200.000	200.569	929510.27	0.3902	P	1.8

y = 0.0019 * x + 6.9793E-005
R = 1.0000
DL = 0.003764
BEC = 0.03588

Weight: <None>
Min Conc: <None>

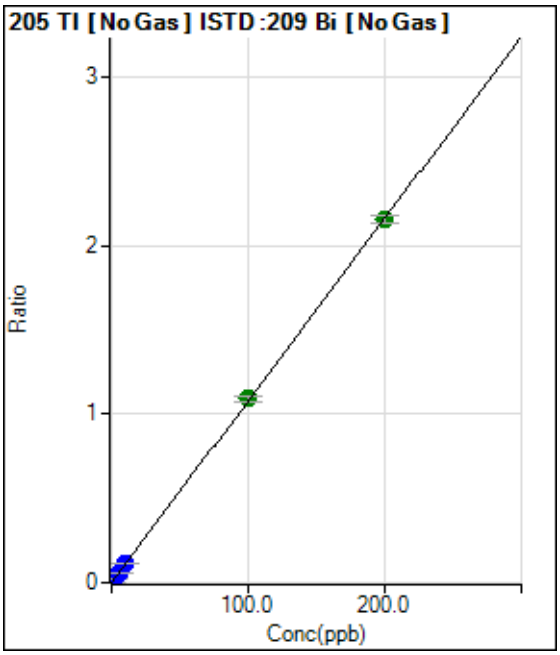
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	80.00	0.0000	P	2.8
2	☐	2.000	2.086	19852.63	0.0095	P	3.9
3	☐	5.000	5.269	50796.74	0.0240	P	4.3
4	☐	10.000	10.294	98416.34	0.0468	P	4.4
5	☐	100.000	98.913	933216.86	0.4497	P	2.9
6	☐	200.000	200.521	1852418.15	0.9116	A	3.4

y = 0.0045 * x + 3.8817E-005
R = 1.0000
DL = 0.0007077
BEC = 0.008538

Weight: <None>
Min Conc: <None>

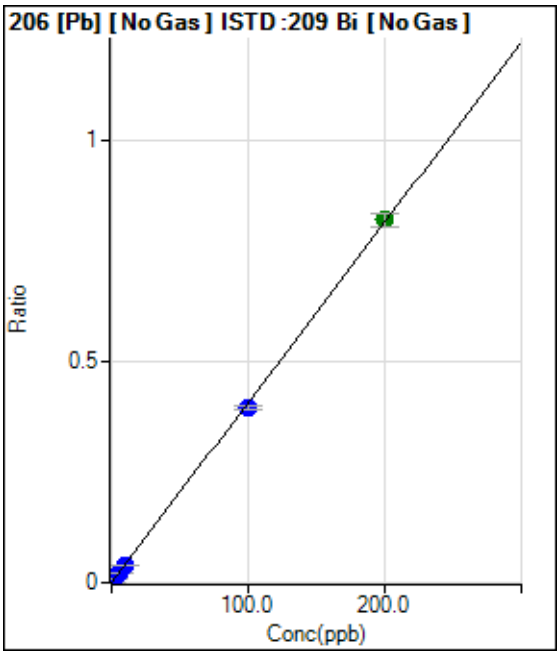


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	220.01	0.0001	P	21.2
2	☐	2.000	2.137	48390.90	0.0232	P	2.7
3	☐	5.000	5.289	121330.35	0.0573	P	3.0
4	☐	10.000	10.378	236108.01	0.1123	P	1.5
5	☐	100.000	101.145	2269245.59	1.0936	A	3.2
6	☐	200.000	199.400	4381258.68	2.1558	A	2.2

y = 0.0108 * x + 1.0674E-004
R = 1.0000
DL = 0.006268
BEC = 0.009873

Weight: <None>
Min Conc: <None>

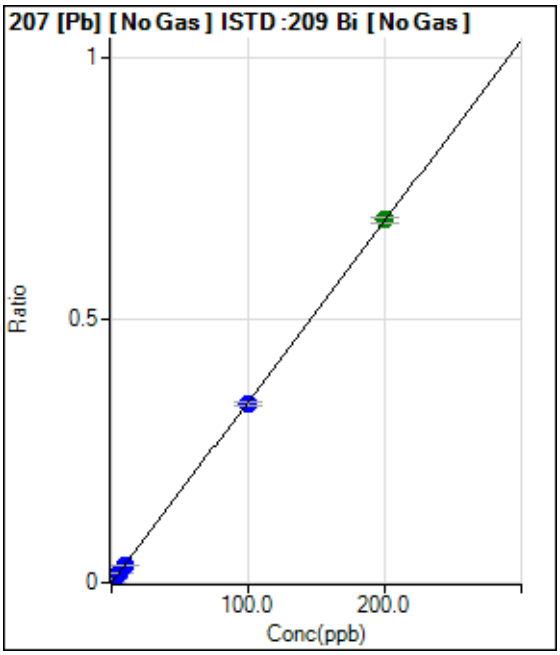
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	216.67	0.0001	P	29.4
2	☐	2.000	1.969	16905.04	0.0081	P	3.1
3	☐	5.000	4.828	41807.45	0.0197	P	1.7
4	☐	10.000	9.545	81777.65	0.0389	P	1.8
5	☐	100.000	97.044	818700.56	0.3945	P	2.5
6	☐	200.000	201.505	1664448.36	0.8191	A	3.5

y = 0.0041 * x + 1.0549E-004
R = 0.9998
DL = 0.02287
BEC = 0.02595

Weight: <None>
Min Conc: <None>

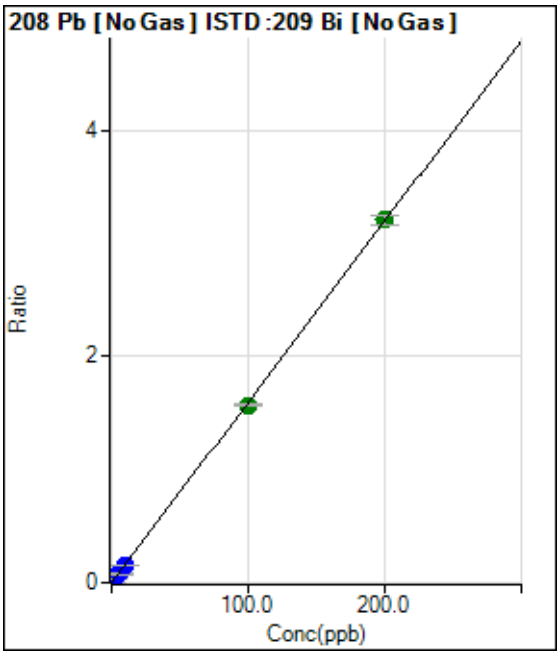


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	176.67	0.0001	P	22.4
2	☐	2.000	1.914	13891.33	0.0067	P	6.1
3	☐	5.000	4.966	36356.88	0.0172	P	2.9
4	☐	10.000	9.703	70302.15	0.0334	P	3.3
5	☐	100.000	98.650	704159.34	0.3393	P	1.6
6	☐	200.000	200.691	1402947.58	0.6902	A	1.4

y = 0.0034 * x + 8.5619E-005
R = 1.0000
DL = 0.01674
BEC = 0.0249

Weight: <None>
Min Conc: <None>

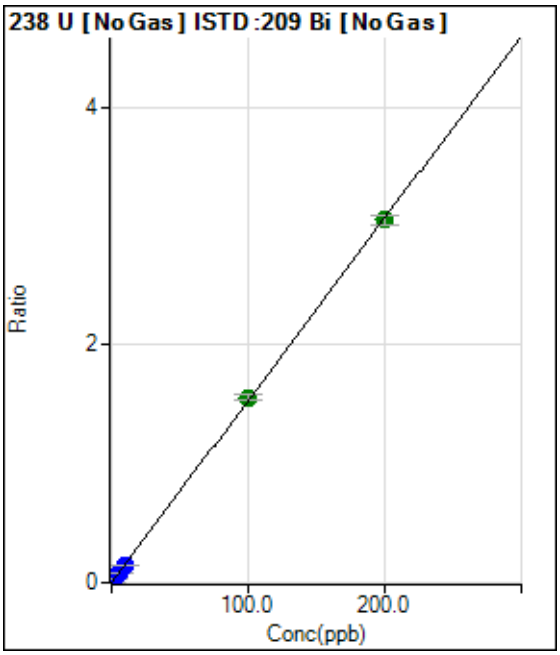
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	800.03	0.0004	P	12.0
2	☐	2.000	1.956	65866.11	0.0316	P	3.9
3	☐	5.000	4.843	164442.68	0.0777	P	3.7
4	☐	10.000	9.691	325881.24	0.1550	P	2.3
5	☐	100.000	98.307	3256170.60	1.5689	A	1.2
6	☐	200.000	200.866	6514100.27	3.2052	A	2.3

y = 0.0160 * x + 3.8807E-004
R = 1.0000
DL = 0.008776
BEC = 0.02432

Weight: <None>
Min Conc: <None>

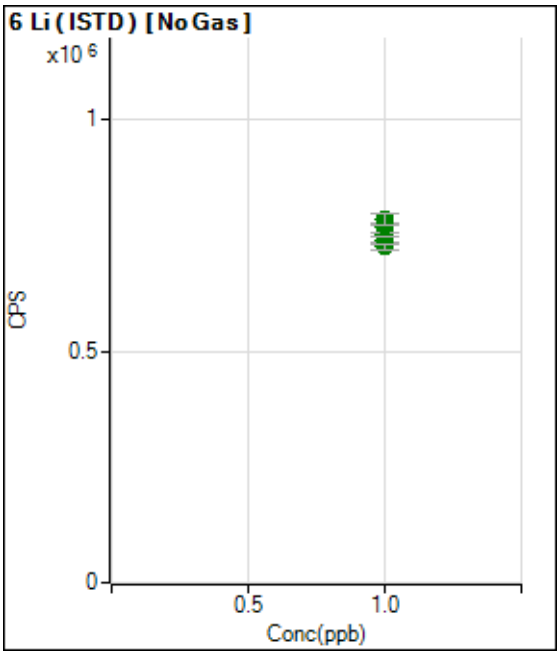


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	43.33	0.0000	P	37.5
2	☐	2.000	1.995	63856.93	0.0306	P	3.6
3	☐	5.000	4.843	157357.60	0.0743	P	3.5
4	☐	10.000	9.683	312332.41	0.1486	P	1.9
5	☐	100.000	101.711	3237840.47	1.5603	A	2.5
6	☐	200.000	199.164	6208769.28	3.0553	A	2.7

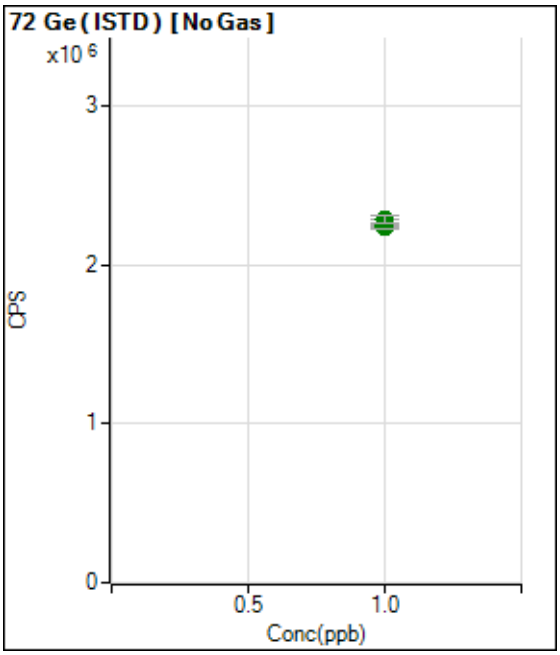
y = 0.0153 * x + 2.1147E-005
R = 0.9999
DL = 0.001552
BEC = 0.001378

Weight: <None>
Min Conc: <None>

Calibration for 022_ICV.d

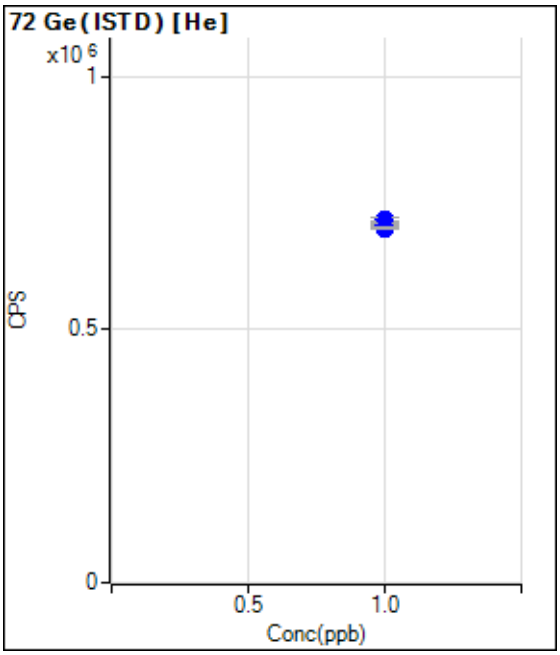


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		768064.43		A	2.7
2	☐	1.000		766624.48		A	2.2
3	☐	1.000		752346.23		A	1.4
4	☐	1.000		783843.21		A	3.2
5	☐	1.000		740801.19		A	1.5
6	☐	1.000		725877.53		A	1.5

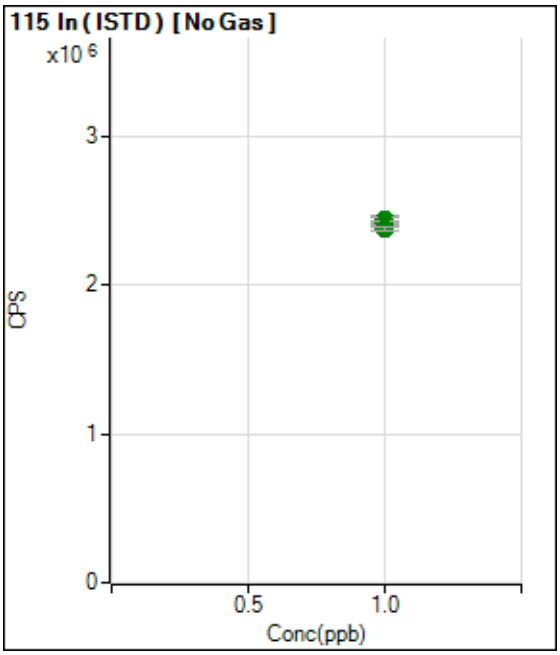


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2282452.26		A	2.4
2	☐	1.000		2265597.10		A	2.1
3	☐	1.000		2253596.27		A	2.7
4	☐	1.000		2243487.16		A	2.1
5	☐	1.000		2254657.26		A	2.5
6	☐	1.000		2281511.37		A	2.1

Calibration for 022_ICV.d

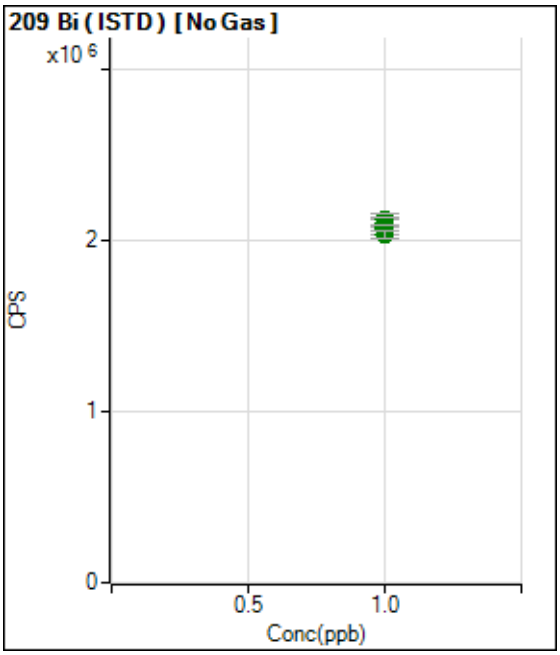


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		709414.55		P	0.5
2	☐	1.000		716680.67		P	1.9
3	☐	1.000		713498.40		P	2.2
4	☐	1.000		710463.32		P	1.1
5	☐	1.000		705566.92		P	1.3
6	☐	1.000		700581.21		P	0.9



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2434567.89		A	2.7
2	☐	1.000		2425307.25		A	3.2
3	☐	1.000		2435642.85		A	1.5
4	☐	1.000		2438173.13		A	1.0
5	☐	1.000		2418262.03		A	1.0
6	☐	1.000		2382514.54		A	1.1

Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2062007.06		A	2.8
2	☐	1.000		2086281.90		A	3.3
3	☐	1.000		2119357.73		A	3.7
4	☐	1.000		2102958.14		A	2.8
5	☐	1.000		2075735.44		A	1.7
6	☐	1.000		2032943.30		A	2.2

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	015CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:02:17-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	51501	0.01
Be	9	1	No Gas	15	384.90
V	51	2	He	3111	0.12
Cr	52	2	He	15836	0.02
Fe	56	2	He	17375	0.02
Se	78	2	He	279	2.39
As	75	2	He	277	3.48
Ca	44	2	He	1147	1.30
Na	23	2	He	57810	0.00
Mg	24	2	He	487	4.88
K	39	2	He	190543	0.00
Mn	55	2	He	833	2.02
Co	59	2	He	80	41.34
Ni	60	2	He	313	3.27
Cu	63	2	He	2210	0.38
Zn	66	2	He	380	7.30
Al	27	2	He	643	2.05
B	11	1	No Gas	50402	0.00
Al	27	1	No Gas	15516	0.01
Si	28	1	No Gas	244671	0.00
Ag	107	1	No Gas	113	11.89
Cd	111	1	No Gas	7	2598.08
Sr	88	1	No Gas	880	1.46
Mo	95	1	No Gas	463	2.73
Sn	118	1	No Gas	903	1.25
Sb	121	1	No Gas	120	30.27
Ba	137	1	No Gas	170	3.46
Tl	205	1	No Gas	220	9.47
Tl	203	1	No Gas	80	0.00
Pb	208	1	No Gas	800	1.49
U	238	1	No Gas	43	81.35
Ca	43	2	He	37	113.62
Sb	121	2	He	33	137.48
Ti	47	2	He	17	415.69
Cu	63	1	No Gas	5158	0.08

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	768064	2.67
Ge	72	2	He	709415	0.53
Ge	72	1	No Gas	2282452	2.42
In	115	1	No Gas	2434568	2.67

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	2062007	2.80

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	016CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:04:15-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	6313	0.10
V	51	2	He	15796	0.01
Cr	52	2	He	29616	0.01
Fe	56	2	He	1275258	0.00
Se	78	2	He	498	1.72
As	75	2	He	2470	0.12
Ca	44	2	He	11245	0.04
Na	23	2	He	290640	0.00
Mg	24	2	He	142567	0.00
K	39	2	He	391470	0.00
Mn	55	2	He	11939	0.01
Co	59	2	He	18757	0.01
Ni	60	2	He	4874	0.07
Cu	63	2	He	13720	0.01
Zn	66	2	He	3040	0.33
Al	27	2	He	1450	0.31
B	11	1	No Gas	68607	0.00
Al	27	1	No Gas	42171	0.01
Si	28	1	No Gas	315596	0.00
Ag	107	1	No Gas	28979	0.01
Cd	111	1	No Gas	5688	0.05
Sr	88	1	No Gas	59389	0.00
Mo	95	1	No Gas	11625	0.03
Sn	118	1	No Gas	17902	0.02
Sb	121	1	No Gas	24380	0.01
Ba	137	1	No Gas	9921	0.04
Tl	205	1	No Gas	48391	0.00
Tl	203	1	No Gas	19853	0.01
Pb	208	1	No Gas	65866	0.00
U	238	1	No Gas	63857	0.00
Ca	43	2	He	590	0.29
Sb	121	2	He	11822	0.02
Cu	63	1	No Gas	27735	0.01

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	766624	2.24	768064	99.81	70	120	
Ge	72	2	He	716681	1.88	709415	101.02	70	120	
Ge	72	1	No Gas	2265597	2.15	2282452	99.26	70	120	

Calibration Standard Report

In	115	1	No Gas	2425307	3.20	2434568	99.62	70	120	
Bi	209	1	No Gas	2086282	3.35	2062007	101.18	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	017CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:06:11-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	16034	0.01
V	51	2	He	34912	0.00
Cr	52	2	He	51889	0.00
Fe	56	2	He	3149040	0.00
Se	78	2	He	798	0.90
As	75	2	He	5766	0.04
Ca	44	2	He	25504	0.02
Na	23	2	He	643343	0.00
Mg	24	2	He	358468	0.00
K	39	2	He	710706	0.00
Mn	55	2	He	28944	0.01
Co	59	2	He	47152	0.01
Ni	60	2	He	12266	0.02
Cu	63	2	He	31400	0.00
Zn	66	2	He	6692	0.02
Al	27	2	He	3137	0.18
B	11	1	No Gas	95905	0.00
Al	27	1	No Gas	89512	0.00
Si	28	1	No Gas	434500	0.00
Ag	107	1	No Gas	73631	0.00
Cd	111	1	No Gas	14232	0.00
Sr	88	1	No Gas	146776	0.00
Mo	95	1	No Gas	28521	0.00
Sn	118	1	No Gas	43335	0.00
Sb	121	1	No Gas	61293	0.00
Ba	137	1	No Gas	24083	0.01
Tl	205	1	No Gas	121330	0.00
Tl	203	1	No Gas	50797	0.00
Pb	208	1	No Gas	164443	0.00
U	238	1	No Gas	157358	0.00
Ca	43	2	He	1513	0.15
Sb	121	2	He	30075	0.01
Cu	63	1	No Gas	63395	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	752346	1.42	768064	97.95	70	120	
Ge	72	2	He	713498	2.25	709415	100.58	70	120	
Ge	72	1	No Gas	2253596	2.72	2282452	98.74	70	120	

Calibration Standard Report

In	115	1	No Gas	2435643	1.46	2434568	100.04	70	120	
Bi	209	1	No Gas	2119358	3.74	2062007	102.78	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	018CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:08:19-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	32733	0.01
V	51	2	He	65038	0.00
Cr	52	2	He	85852	0.00
Fe	56	2	He	5968639	0.00
Se	78	2	He	1387	0.20
As	75	2	He	11279	0.02
Ca	44	2	He	49205	0.01
Na	23	2	He	1180362	0.00
Mg	24	2	He	705444	0.00
K	39	2	He	1229510	0.00
Mn	55	2	He	55570	0.00
Co	59	2	He	92017	0.00
Ni	60	2	He	22883	0.01
Cu	63	2	He	58516	0.00
Zn	66	2	He	12830	0.01
Al	27	2	He	5541	0.07
B	11	1	No Gas	141996	0.00
Al	27	1	No Gas	156716	0.00
Si	28	1	No Gas	612676	0.00
Ag	107	1	No Gas	147391	0.00
Cd	111	1	No Gas	28517	0.01
Sr	88	1	No Gas	290695	0.00
Mo	95	1	No Gas	57019	0.00
Sn	118	1	No Gas	84629	0.00
Sb	121	1	No Gas	121560	0.00
Ba	137	1	No Gas	45992	0.00
Tl	205	1	No Gas	236108	0.00
Tl	203	1	No Gas	98416	0.00
Pb	208	1	No Gas	325881	0.00
U	238	1	No Gas	312332	0.00
Ca	43	2	He	2854	0.05
Sb	121	2	He	60731	0.01
Cu	63	1	No Gas	118796	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	783843	3.19	768064	102.05	70	120	
Ge	72	2	He	710463	1.15	709415	100.15	70	120	
Ge	72	1	No Gas	2243487	2.06	2282452	98.29	70	120	

Calibration Standard Report

In	115	1	No Gas	2438173	1.01	2434568	100.15	70	120	
Bi	209	1	No Gas	2102958	2.82	2062007	101.99	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	019CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:10:14-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	326625	0.00
V	51	2	He	641648	0.00
Cr	52	2	He	720963	0.00
Fe	56	2	He	61264951	0.00
Se	78	2	He	12153	0.01
As	75	2	He	111948	0.00
Ca	44	2	He	494648	0.00
Na	23	2	He	11232543	0.00
Mg	24	2	He	6676217	0.00
K	39	2	He	10154039	0.00
Mn	55	2	He	565269	0.00
Co	59	2	He	933318	0.00
Ni	60	2	He	232683	0.00
Cu	63	2	He	570647	0.00
Zn	66	2	He	129160	0.00
Al	27	2	He	49930	0.00
B	11	1	No Gas	963835	0.00
Al	27	1	No Gas	1416561	0.00
Si	28	1	No Gas	3786982	0.00
Ag	107	1	No Gas	1453249	0.00
Cd	111	1	No Gas	282441	0.00
Sr	88	1	No Gas	2834415	0.00
Mo	95	1	No Gas	570837	0.00
Sn	118	1	No Gas	840764	0.00
Sb	121	1	No Gas	1235982	0.00
Ba	137	1	No Gas	465303	0.00
Tl	205	1	No Gas	2269246	0.00
Tl	203	1	No Gas	933217	0.00
Pb	208	1	No Gas	3256171	0.00
U	238	1	No Gas	3237840	0.00
Ca	43	2	He	29398	0.01
Sb	121	2	He	631876	0.00
Cu	63	1	No Gas	1149047	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	740801	1.51	768064	96.45	70	120	
Ge	72	2	He	705567	1.27	709415	99.46	70	120	
Ge	72	1	No Gas	2254657	2.52	2282452	98.78	70	120	

Calibration Standard Report

In	115	1	No Gas	2418262	0.99	2434568	99.33	70	120	
Bi	209	1	No Gas	2075735	1.75	2062007	100.67	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	020CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:12:07-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	657980	0.00
V	51	2	He	1273617	0.00
Cr	52	2	He	1407081	0.00
Fe	56	2	He	119960748	0.00
Se	78	2	He	23969	0.00
As	75	2	He	224498	0.00
Ca	44	2	He	959459	0.00
Na	23	2	He	22199528	0.00
Mg	24	2	He	13271985	0.00
K	39	2	He	20100327	0.00
Mn	55	2	He	1098130	0.00
Co	59	2	He	1877430	0.00
Ni	60	2	He	450068	0.00
Cu	63	2	He	1131335	0.00
Zn	66	2	He	251054	0.00
Al	27	2	He	97860	0.00
B	11	1	No Gas	1925562	0.00
Al	27	1	No Gas	2693190	0.00
Si	28	1	No Gas	7210365	0.00
Ag	107	1	No Gas	2826762	0.00
Cd	111	1	No Gas	563653	0.00
Sr	88	1	No Gas	5489293	0.00
Mo	95	1	No Gas	1140750	0.00
Sn	118	1	No Gas	1676794	0.00
Sb	121	1	No Gas	2499666	0.00
Ba	137	1	No Gas	929510	0.00
Tl	205	1	No Gas	4381259	0.00
Tl	203	1	No Gas	1852418	0.00
Pb	208	1	No Gas	6514100	0.00
U	238	1	No Gas	6208769	0.00
Ca	43	2	He	58244	0.00
Sb	121	2	He	1298993	0.00
Cu	63	1	No Gas	2227422	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	725878	1.47	768064	94.51	70	120	
Ge	72	2	He	700581	0.92	709415	98.75	70	120	
Ge	72	1	No Gas	2281511	2.08	2282452	99.96	70	120	

Calibration Standard Report

In	115	1	No Gas	2382515	1.11	2434568	97.86	70	120	
Bi	209	1	No Gas	2032943	2.16	2062007	98.59	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	022_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:18:40-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	100.728	5.874	1054143	3.09	100	100.7	90	110	
Be	9	1	No Gas	99.339	3.862	326219	1.27	100	99.3	90	110	
V	51	2	He	96.536	0.884	628875	0.80	100	96.5	90	110	
Cr	52	2	He	96.572	1.238	702711	0.57	100	96.6	90	110	
Fe	56	2	He	9757.482	2.186	59916509	0.97	10000	97.6	90	110	
Se	78	2	He	94.041	1.905	11640	0.93	100	94.0	90	110	
As	75	2	He	96.027	1.323	109930	0.94	100	96.0	90	110	
Ca	44	2	He	9845.519	1.351	484919	0.36	10000	98.5	90	110	
Na	23	2	He	9600.424	0.769	10914077	1.74	10000	96.0	90	110	
Mg	24	2	He	9692.126	1.244	6565114	0.94	10000	96.9	90	110	
K	39	2	He	9775.407	1.113	10116253	1.76	10000	97.8	90	110	
Mn	55	2	He	98.222	1.343	553291	0.53	100	98.2	90	110	
Co	59	2	He	95.214	2.119	909935	0.82	100	95.2	90	110	
Ni	60	2	He	98.251	2.390	227015	1.11	100	98.3	90	110	
Cu	63	2	He	95.769	1.266	554103	0.41	100	95.8	90	110	
Zn	66	2	He	98.521	0.557	126953	1.10	100	98.5	90	110	
Al	27	2	He	95.928	1.649	48314	1.05	100	95.9	90	110	
B	11	1	No Gas	497.235	3.954	964014	1.66	500	99.4	90	110	
Al	27	1	No Gas	102.394	1.924	1396825	1.86	100	102.4	90	110	
Si	28	1	No Gas	503.949	3.407	3759470	0.73	500	100.8	90	110	
Ag	107	1	No Gas	100.798	0.919	1432969	0.28	100	100.8	90	110	
Cd	111	1	No Gas	97.941	1.728	276170	0.62	100	97.9	90	110	
Sr	88	1	No Gas	100.057	2.287	2764480	1.19	100	100.1	90	110	
Mo	95	1	No Gas	97.361	1.755	555584	0.57	100	97.4	90	110	
Sn	118	1	No Gas	97.636	1.156	819407	0.94	100	97.6	90	110	
Sb	121	1	No Gas	98.682	3.508	1227765	1.17	100	98.7	90	110	
Ba	137	1	No Gas	97.543	0.618	453560	0.64	100	97.5	90	110	
Tl	205	1	No Gas	99.697	2.729	2198723	1.54	100	99.7	90	110	
Tl	203	1	No Gas	99.049	2.242	918588	0.63	100	99.0	90	110	
Pb	208	1	No Gas	97.048	1.194	3159629	0.63	100	97.0	90	110	
U	238	1	No Gas	99.509	0.599	3114419	1.39	100	99.5	90	110	
Ca	43	2	He	9545.179	1.767	28400	0.47	10000	95.5	90	110	
Sb	121	2	He	95.850	0.452	613550	0.94	100	95.9	90	110	
Ti	47	2	He	96.939	1.957	25761	2.55	100	96.9	90	110	
Cu	63	1	No Gas	99.111	1.920	1110621	0.71	100	99.1	90	110	
Se	82	1	No Gas	97.679	1.134	20531	2.21	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
Li	6	1	No Gas	745627	2.89	768064	97.08	70	120	
Ge	72	2	He	715207	1.30	709415	100.82	70	120	
Ge	72	1	No Gas	2271472	2.47	2282452	99.52	70	120	
In	115	1	No Gas	2389918	1.20	2434568	98.17	70	120	
Bi	209	1	No Gas	2040297	1.68	2062007	98.95	70	120	

Sample Report

Sample Table

Sample Name	LLICV2
Data File Name	024LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:22:39-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	015CALB.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
Li	7	1	No Gas	1.943	1.943	4.72	74320	0.00	2	
Be	9	1	No Gas	1.969	1.969	2.78	6942	0.03	2	
V	51	2	He	1.821	1.821	1.59	15171	0.01	2	
Cr	52	2	He	2.007	2.007	6.96	30711	0.01	2	
Fe	56	2	He	208.911	208.911	0.58	1320330	0.02	200	
Se	78	2	He	1.549	1.549	14.66	475	0.33	2	
As	75	2	He	1.938	1.938	4.05	2531	0.08	2	
Ca	44	2	He	192.337	192.337	6.32	10771	1.79	200	
Na	23	2	He	205.581	205.581	0.33	295237	0.07	200	
Mg	24	2	He	212.590	212.590	0.85	146726	0.14	200	
K	39	2	He	201.165	201.165	1.32	402457	0.05	200	
Mn	55	2	He	2.041	2.041	2.65	12513	0.02	2	
Co	59	2	He	1.953	1.953	1.83	19034	0.01	2	
Ni	60	2	He	1.956	1.956	6.52	4904	0.04	2	
Cu	63	2	He	1.940	1.940	1.62	13614	0.01	2	
Zn	66	2	He	1.910	1.910	4.75	2880	0.07	2	
Al	27	2	He	1.728	1.728	12.43	1530	0.11	2	
B	11	1	No Gas	10.880	10.880	7.69	73851	0.01	10	
Al	27	1	No Gas	1.989	1.989	1.77	43064	0.00	2	
Si	28	1	No Gas	9.832	9.832	1.82	317990	0.00	10	
Ag	107	1	No Gas	2.078	2.078	1.44	30910	0.01	2	
Cd	111	1	No Gas	1.938	1.938	4.64	5703	0.03	2	
Sr	88	1	No Gas	2.048	2.048	1.44	59887	0.00	2	
Mo	95	1	No Gas	1.943	1.943	1.55	12022	0.02	2	
Sn	118	1	No Gas	1.952	1.952	1.31	17989	0.01	2	
Sb	121	1	No Gas	1.965	1.965	2.65	25038	0.01	2	
Ba	137	1	No Gas	1.967	1.967	1.19	9707	0.02	2	
Tl	205	1	No Gas	2.203	2.203	1.33	50088	0.00	2	
Tl	203	1	No Gas	2.207	2.207	0.41	21091	0.01	2	
Pb	208	1	No Gas	2.020	2.020	3.86	68277	0.00	2	
U	238	1	No Gas	1.959	1.959	1.57	62976	0.00	2	
Ca	43	2	He	207.315	207.315	23.58	663	31.25	200	
Sb	121	2	He	1.852	1.852	4.09	12069	0.02	2	
Ti	47	2	He	1.667	1.667	13.59	467	0.36	200	
Cu	63	1	No Gas	1.987	1.987	2.14	27809	0.01	2	
Se	82	1	No Gas	2.832	2.832	12.98	548	0.52	2	NewName Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	798594	2.91	768064	103.97	70	120	
Ge	72	2	He	726268	0.17	709415	102.38	70	120	
Ge	72	1	No Gas	2313260	0.30	2282452	101.35	70	120	
In	115	1	No Gas	2491542	1.15	2434568	102.34	70	120	
Bi	209	1	No Gas	2093870	0.66	2062007	101.55	70	120	

Sample Report

Sample Table

Sample Name	LLICV5
Data File Name	025LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:24:37-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	015CALB.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
Li	7	1	No Gas	5.178	5.178	1.97	104917	0.00	5	
Be	9	1	No Gas	4.790	4.790	2.09	16253	0.03	5	
V	51	2	He	4.774	4.774	1.93	34415	0.01	5	
Cr	52	2	He	4.844	4.844	1.82	50895	0.01	5	
Fe	56	2	He	508.106	508.106	1.85	3166893	0.02	500	
Se	78	2	He	4.796	4.796	5.87	869	0.55	5	
As	75	2	He	4.868	4.868	1.37	5895	0.08	5	
Ca	44	2	He	503.559	503.559	2.24	26145	1.93	500	
Na	23	2	He	511.507	511.507	2.23	642680	0.08	500	
Mg	24	2	He	525.244	525.244	1.81	359663	0.15	500	
K	39	2	He	512.048	512.048	1.57	718711	0.07	500	
Mn	55	2	He	4.968	4.968	1.99	29061	0.02	5	
Co	59	2	He	4.812	4.812	0.76	46516	0.01	5	
Ni	60	2	He	4.991	4.991	3.60	11945	0.04	5	
Cu	63	2	He	4.829	4.829	2.62	30344	0.02	5	
Zn	66	2	He	4.904	4.904	2.17	6748	0.07	5	
Al	27	2	He	5.073	5.073	8.55	3200	0.16	5	
B	11	1	No Gas	25.483	25.483	3.04	98914	0.03	25	
Al	27	1	No Gas	5.526	5.526	1.17	90027	0.01	5	
Si	28	1	No Gas	26.595	26.595	2.52	429323	0.01	25	
Ag	107	1	No Gas	5.048	5.048	3.14	73957	0.01	5	
Cd	111	1	No Gas	4.777	4.777	3.52	13870	0.03	5	
Sr	88	1	No Gas	5.119	5.119	2.69	146405	0.00	5	
Mo	95	1	No Gas	4.828	4.828	2.88	28795	0.02	5	
Sn	118	1	No Gas	4.836	4.836	2.31	42640	0.01	5	
Sb	121	1	No Gas	4.865	4.865	0.96	60687	0.01	5	
Ba	137	1	No Gas	4.896	4.896	2.18	23592	0.02	5	
Tl	205	1	No Gas	5.171	5.171	1.69	119736	0.00	5	
Tl	203	1	No Gas	5.091	5.091	2.85	49549	0.01	5	
Pb	208	1	No Gas	4.794	4.794	2.26	164342	0.00	5	
U	238	1	No Gas	4.812	4.812	1.43	157863	0.00	5	
Ca	43	2	He	514.148	514.148	6.59	1580	32.54	500	
Sb	121	2	He	4.720	4.720	3.25	30526	0.02	5	
Ti	47	2	He	4.637	4.637	2.12	1260	0.37	5	
Cu	63	1	No Gas	5.043	5.043	2.29	61406	0.01	5	
Se	82	1	No Gas	5.681	5.681	7.95	1137	0.50	5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	769478	3.05	768064	100.18	70	120	
Ge	72	2	He	722077	1.25	709415	101.78	70	120	
Ge	72	1	No Gas	2272073	1.45	2282452	99.55	70	120	

Sample Report

In	115	1	No Gas	2460447	3.30	2434568	101.06	70	120	
Bi	209	1	No Gas	2138162	2.37	2062007	103.69	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	026_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:26:44-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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
Li	7	1	No Gas	0.081	53.6	52891	0.9	0.5	
Be	9	1	No Gas	0.004	36.6	30	16.7	0.5	
V	51	2	He	-0.048	-26.7	2871	2.5	2.5	
Cr	52	2	He	0.257	28.7	18079	3.1	2.5	
Fe	56	2	He	2.099	8.4	30899	4.2	100	
Se	78	2	He	-0.397	-54.5	237	11.0	1	
As	75	2	He	0.004	893.6	288	13.5	2.5	
Ca	44	2	He	14.291	30.8	1887	11.2	100	
Na	23	2	He	2.171	17.6	61706	0.4	100	
Mg	24	2	He	1.073	15.0	1237	8.4	100	
K	39	2	He	-0.217	-577.5	194947	1.0	100	
Mn	55	2	He	0.746	1.8	5118	1.6	2.5	
Co	59	2	He	0.011	44.8	193	26.0	2.5	
Ni	60	2	He	0.071	45.5	487	15.6	2.5	
Cu	63	2	He	0.201	4.5	3440	2.0	1	
Zn	66	2	He	0.899	11.0	1563	8.7	2.5	
Al	27	2	He	1.179	27.6	1253	12.8	5	
B	11	1	No Gas	-1.108	-31.5	48813	1.3	0.5	
Al	27	1	No Gas	1.539	6.8	36963	2.0	5	
Si	28	1	No Gas	1.489	169.1	259053	3.9	10	
Ag	107	1	No Gas	0.014	20.5	323	14.3	2.5	
Cd	111	1	No Gas	0.002	240.9	12	107.5	1	
Sr	88	1	No Gas	0.041	19.2	2054	10.7	2.5	
Mo	95	1	No Gas	0.022	54.8	597	10.1	2.5	
Sn	118	1	No Gas	0.131	25.9	2040	12.4	5	
Sb	121	1	No Gas	0.052	11.2	777	8.2	2.5	
Ba	137	1	No Gas	0.238	12.8	1310	12.3	2.5	
Tl	205	1	No Gas	0.025	7.6	803	6.1	1	
Tl	203	1	No Gas	0.027	15.5	337	12.4	1	
Pb	208	1	No Gas	0.010	27.4	1150	7.4	2.5	
U	238	1	No Gas	0.010	26.5	377	24.1	2.5	
Ca	43	2	He	16.317	113.1	87	63.5	100	
Sb	121	2	He	0.053	22.1	380	19.9	2.5	
Ti	47	2	He	0.011	343.9	20	50.0	2.5	
Se	82	1	No Gas	0.307	48.0	5	699.3	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	776037	1.76	768064	101.04	70	120	

Initial Calibration Blank (ICB) Report

Ge	72	2	He	726617	0.59	709415	102.42	70	120	
Ge	72	1	No Gas	2320106	3.51	2282452	101.65	70	120	
In	115	1	No Gas	2454131	2.22	2434568	100.80	70	120	
Bi	209	1	No Gas	2106981	0.74	2062007	102.18	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	028ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:34:47-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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
Li	7	1	No Gas	0.350	12.5	54411	3.2	0	ICSA Main CR1 Failed
Be	9	1	No Gas	0.000	1658.5	15	33.3	0	ICSA Main CR1 Failed
V	51	2	He	0.174	15.2	4128	3.9	0	ICSA Main CR1 Failed
Cr	52	2	He	1.563	4.7	26195	1.9	0	ICSA Main CR1 Failed
Fe	56	2	He	98724.678	1.2	586354338	1.0	0	
Se	78	2	He	-0.158	-122.9	253	8.7	0	ICSA Main CR1 Failed
As	75	2	He	0.305	6.3	607	3.3	0	ICSA Main CR1 Failed
Ca	44	2	He	95445.923	1.6	4538131	1.6	0	
Na	23	2	He	97058.040	0.9	106214805	0.7	0	
Mg	24	2	He	98791.109	1.1	64730607	0.9	0	
K	39	2	He	99551.763	1.6	97946899	1.4	0	
Mn	55	2	He	1.062	8.1	6588	6.9	0	ICSA Main CR1 Failed
Co	59	2	He	0.516	4.3	4844	4.0	0	ICSA Main CR1 Failed
Ni	60	2	He	0.874	9.3	2257	7.9	0	ICSA Main CR1 Failed
Cu	63	2	He	0.153	24.3	3010	6.7	0	ICSA Main CR1 Failed
Zn	66	2	He	2.591	2.8	3591	2.3	0	ICSA Main CR1 Failed
Al	27	2	He	90968.000	0.8	43729446	0.8	0	
B	11	1	No Gas	-2.102	-41.1	45806	0.9	0	ICSA Main CR1 Failed
Al	27	1	No Gas	93926.417	1.1	1237098248	1.4	0	
Si	28	1	No Gas	23.065	8.3	394825	1.8	0	
Ag	107	1	No Gas	0.156	5.1	2230	6.3	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	0.344	46.7	940	48.2	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	4.760	1.1	126845	1.5	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	1983.497	0.8	10842050	1.9	0	
Sn	118	1	No Gas	0.011	156.6	943	16.0	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.252	2.6	3177	3.5	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.611	7.5	2884	9.2	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	0.014	20.3	497	15.1	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.014	56.3	193	36.7	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.158	2.9	5467	0.9	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.008	23.6	263	17.9	0	ICSA Main CR1 Failed
Ca	43	2	He	93762.511	1.1	269574	1.0	0	
Sb	121	2	He	0.248	10.1	1570	10.0	0	ICSA Main CR1 Failed
Ti	47	2	He	2051.873	1.6	527097	1.4	0	
Se	82	1	No Gas	0.661	32.9	77	56.3	0	ICSA Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	758417	3.97	768064	98.74	70	120	
Ge	72	2	He	691831	0.24	709415	97.52	70	120	
Ge	72	1	No Gas	2217434	2.22	2282452	97.15	70	120	
In	115	1	No Gas	2290903	2.31	2434568	94.10	70	120	
Bi	209	1	No Gas	1880074	3.40	2062007	91.18	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	029ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:36:47-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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
Li	7	1	No Gas	102.245	1.726	1024450	0.97	100	102.2	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	99.915	1.052	314291	1.17	100	99.9	80	120	
V	51	2	He	98.734	1.011	620234	0.69	100	98.7	80	120	
Cr	52	2	He	99.426	1.142	697293	0.48	100	99.4	80	120	
Fe	56	2	He	108054.785	0.474	639847670	1.12	100	108054.8	80	120	
Se	78	2	He	97.501	0.901	11632	2.42	100	97.5	80	120	
As	75	2	He	98.970	1.475	109257	0.62	100	99.0	80	120	
Ca	44	2	He	103382.730	0.861	4900842	1.79	100	103382.7	80	120	ICSB Main CR1 Failed
Na	23	2	He	106742.464	1.952	116445052	1.27	100	106742.5	80	120	
Mg	24	2	He	107804.801	0.746	70423517	1.02	100	107804.8	80	120	
K	39	2	He	108057.027	1.935	105968822	1.14	100	108057.0	80	120	
Mn	55	2	He	99.865	0.974	542536	0.63	100	99.9	80	120	
Co	59	2	He	96.619	1.407	890573	0.23	100	96.6	80	120	
Ni	60	2	He	96.702	1.255	215516	0.50	100	96.7	80	120	
Cu	63	2	He	95.978	2.211	535498	0.63	100	96.0	80	120	
Zn	66	2	He	100.214	1.634	124528	1.29	100	100.2	80	120	
Al	27	2	He	90285.663	0.692	43272663	1.67	100	90285.7	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	506.913	2.003	940297	0.74	100	506.9	80	120	
Al	27	1	No Gas	93051.775	1.611	1208591209	0.93	100	93051.8	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	533.668	2.436	3819828	0.50	100	533.7	80	120	
Ag	107	1	No Gas	98.181	1.848	1328856	1.18	100	98.2	80	120	
Cd	111	1	No Gas	98.911	1.762	265583	2.10	100	98.9	80	120	
Sr	88	1	No Gas	107.756	2.872	2834621	2.32	100	107.8	80	120	
Mo	95	1	No Gas	2034.442	2.171	11045492	1.94	100	2034.4	80	120	ICSB Main CR1 Failed
Sn	118	1	No Gas	101.625	0.919	812006	0.59	100	101.6	80	120	
Sb	121	1	No Gas	101.816	2.518	1219879	1.34	100	101.8	80	120	
Ba	137	1	No Gas	100.346	1.429	444230	1.06	100	100.3	80	120	
Tl	205	1	No Gas	100.316	3.794	2007628	2.32	100	100.3	80	120	
Tl	203	1	No Gas	99.807	2.299	840050	0.46	100	99.8	80	120	
Pb	208	1	No Gas	101.240	2.794	2990859	1.11	100	101.2	80	120	
U	238	1	No Gas	108.958	2.716	3094163	1.13	100	109.0	80	120	
Ca	43	2	He	103574.778	1.460	296864	0.81	100	103574.8	80	120	
Sb	121	2	He	98.350	2.007	607082	1.08	100	98.4	80	120	
Ti	47	2	He	2146.826	1.337	549807	0.91	100	2146.8	80	120	
Cu	63	1	No Gas	97.578	1.616	1052869	0.32	100	97.6	80	120	
Se	82	1	No Gas	102.154	3.395	20667	1.91	100	102.2	80	120	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	713761	1.66	768064	92.93	70	120	
Ge	72	2	He	689784	1.60	709415	97.23	70	120	
Ge	72	1	No Gas	2186776	1.86	2282452	95.81	70	120	
In	115	1	No Gas	2275397	0.82	2434568	93.46	70	120	
Bi	209	1	No Gas	1851837	2.20	2062007	89.81	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	146_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T16:51:07-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
n	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
Li	7	1	No Gas	102.021	2.001	1106198	1.75	100	102.0	90	110	
Be	9	1	No Gas	100.306	2.394	341334	0.80	100	100.3	90	110	
V	51	2	He	96.032	1.410	656610	0.76	100	96.0	90	110	
Cr	52	2	He	96.647	0.410	738165	0.56	100	96.6	90	110	
Fe	56	2	He	9933.997	1.452	64034111	1.44	10000	99.3	90	110	
Se	78	2	He	96.132	2.004	12483	1.32	100	96.1	90	110	
As	75	2	He	96.259	1.945	115657	1.37	100	96.3	90	110	
Ca	44	2	He	10024.796	1.787	518216	1.14	10000	100.2	90	110	
Na	23	2	He	9842.163	1.374	11740977	0.85	10000	98.4	90	110	
Mg	24	2	He	9949.105	2.724	7072919	2.11	10000	99.5	90	110	
K	39	2	He	9992.364	2.963	10847447	2.31	10000	99.9	90	110	
Mn	55	2	He	97.648	1.192	577359	0.63	100	97.6	90	110	
Co	59	2	He	94.194	0.088	944977	0.65	100	94.2	90	110	
Ni	60	2	He	96.737	1.144	234638	0.59	100	96.7	90	110	
Cu	63	2	He	95.241	0.718	578414	0.29	100	95.2	90	110	
Zn	66	2	He	97.806	1.179	132281	0.98	100	97.8	90	110	
Al	27	2	He	96.967	2.111	51252	1.43	100	97.0	90	110	
B	11	1	No Gas	500.464	2.071	1005258	2.27	500	100.1	90	110	
Al	27	1	No Gas	100.791	3.815	1450948	1.85	100	100.8	90	110	
Si	28	1	No Gas	502.880	2.028	3961595	2.30	5000	10.1	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	97.479	0.954	1445389	1.85	100	97.5	90	110	
Cd	111	1	No Gas	96.943	0.911	285110	1.16	100	96.9	90	110	
Sr	88	1	No Gas	100.972	1.881	2909568	1.10	100	101.0	90	110	
Mo	95	1	No Gas	96.548	0.796	574658	1.37	100	96.5	90	110	
Sn	118	1	No Gas	98.584	0.782	862856	0.73	100	98.6	90	110	
Sb	121	1	No Gas	95.387	1.105	1253020	0.83	100	95.4	90	110	
Ba	137	1	No Gas	97.146	0.166	471106	0.94	100	97.1	90	110	
Tl	205	1	No Gas	104.859	2.214	2332100	1.01	100	104.9	90	110	
Tl	203	1	No Gas	103.428	1.333	967370	0.51	100	103.4	90	110	
Pb	208	1	No Gas	97.123	0.951	3188775	0.87	100	97.1	90	110	
U	238	1	No Gas	98.934	1.334	3122173	0.44	100	98.9	90	110	
Ca	43	2	He	9588.857	2.515	29946	2.26	10000	95.9	90	110	
Sb	121	2	He	93.554	0.826	628543	0.84	100	93.6	90	110	
Ti	47	2	He	96.964	4.035	27040	3.56	100	97.0	90	110	
Cu	63	1	No Gas	98.009	1.170	1159343	0.75	100	98.0	90	110	
Se	82	1	No Gas	96.530	4.501	21426	6.34	100	96.5	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	772412	2.68	768064	100.57	70	120	
Ge	72	2	He	750653	0.66	709415	105.81	70	120	
Ge	72	1	No Gas	2397255	1.90	2282452	105.03	70	120	
In	115	1	No Gas	2492387	0.93	2434568	102.37	70	120	
Bi	209	1	No Gas	2057495	1.77	2062007	99.78	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	147_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T16:52:59-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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
Li	7	1	No Gas	0.036	134.1	55159	1.5	0.5	
Be	9	1	No Gas	0.008	59.2	43	37.1	0.5	
V	51	2	He	-0.071	-8.9	2839	2.8	2.5	
Cr	52	2	He	0.222	28.6	18613	3.8	2.5	
Fe	56	2	He	1.612	11.4	29068	2.9	100	
Se	78	2	He	-0.436	-46.4	242	9.4	2	
As	75	2	He	0.039	78.4	343	11.9	2.5	
Ca	44	2	He	0.229	1153.9	1237	10.2	100	
Na	23	2	He	22.180	6.7	88402	1.0	100	
Mg	24	2	He	1.340	8.9	1483	6.4	100	
K	39	2	He	7.251	11.3	211551	1.1	100	
Mn	55	2	He	0.092	11.8	1440	4.2	2.5	
Co	59	2	He	0.003	20.7	117	4.9	2.5	
Ni	60	2	He	0.017	68.7	377	6.7	2.5	
Cu	63	2	He	-0.233	-1.6	937	2.2	2	
Zn	66	2	He	0.411	19.2	967	11.9	2.5	
Al	27	2	He	-0.121	-146.4	623	13.8	5	
B	11	1	No Gas	-6.077	-2.0	41341	1.5	0.5	
Al	27	1	No Gas	0.003	1671.9	16570	3.0	5	
Si	28	1	No Gas	-5.201	-15.7	221860	0.6	10	
Ag	107	1	No Gas	0.007	71.5	227	32.5	2.5	
Cd	111	1	No Gas	0.004	271.3	20	176.4	1	
Sr	88	1	No Gas	0.020	19.1	1543	5.7	2.5	
Mo	95	1	No Gas	0.052	54.0	820	20.0	2.5	
Sn	118	1	No Gas	0.147	10.3	2324	8.6	5	
Sb	121	1	No Gas	0.351	15.4	4794	11.8	2.5	
Ba	137	1	No Gas	0.030	43.0	333	17.6	2.5	
Tl	205	1	No Gas	0.187	30.0	4591	28.8	1	
Tl	203	1	No Gas	0.195	35.7	2000	34.7	1	
Pb	208	1	No Gas	-0.006	-11.0	623	4.0	2.5	
U	238	1	No Gas	0.028	23.2	957	22.4	2.5	
Ca	43	2	He	7.581	102.5	63	39.7	100	
Sb	121	2	He	0.311	0.7	2144	0.5	2.5	
Ti	47	2	He	-0.016	-327.4	13	114.6	2.5	
Cu	63	1	No Gas	-0.291	-2.7	2020	2.6	2.5	
Se	82	1	No Gas	0.248	196.3	-6	-1871.1	2	

QC ISTD Table

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

Continuing Calibration Blank (CCB) Report

Li	6	1	No Gas	816427	1.10	768064	106.30	70	120	
Ge	72	2	He	758551	1.25	709415	106.93	70	120	
Ge	72	1	No Gas	2432527	3.35	2282452	106.58	70	120	
In	115	1	No Gas	2611945	2.81	2434568	107.29	70	120	
Bi	209	1	No Gas	2154903	0.53	2062007	104.51	70	120	

Sample Report

Sample Table

Sample Name	MBLK-197198
Data File Name	148SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T16:55:41-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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
Li	7	1	No Gas	0.038	0.038	242.00	55864	0.00	2000	
Be	9	1	No Gas	0.001	0.001	445.99	18	0.00	2000	
V	51	2	He	-0.016	-0.016	-96.13	3234	0.00	2000	
Cr	52	2	He	0.287	0.287	14.71	19194	0.00	2000	
Fe	56	2	He	2.730	2.730	1.63	36543	0.01	200000	
Se	78	2	He	-0.400	-0.400	-20.11	248	-0.16	2000	
As	75	2	He	0.018	0.018	66.48	319	0.01	2000	
Ca	44	2	He	11.672	11.672	8.38	1843	0.63	200000	
Na	23	2	He	26.106	26.106	6.37	93605	0.03	200000	
Mg	24	2	He	1.846	1.846	11.45	1857	0.10	200000	
K	39	2	He	9.616	9.616	26.83	215166	0.00	200000	
Mn	55	2	He	0.737	0.737	2.48	5314	0.01	2000	
Co	59	2	He	-0.002	-0.002	-135.53	63	0.00	2000	
Ni	60	2	He	0.163	0.163	24.27	737	0.02	2000	
Cu	63	2	He	0.059	0.059	65.48	2740	0.00	2000	
Zn	66	2	He	1.358	1.358	16.55	2270	0.06	2000	
Al	27	2	He	1.276	1.276	9.30	1367	0.09	2000	
B	11	1	No Gas	-10.236	-10.236	-4.45	33360	-0.03	2000	
Al	27	1	No Gas	1.839	1.839	4.67	43983	0.00	2000	
Si	28	1	No Gas	-3.018	-3.018	-10.88	243153	0.00	2000	
Ag	107	1	No Gas	-0.002	-0.002	-97.67	90	0.00	2000	
Cd	111	1	No Gas	-0.004	-0.004	-55.30	-4	0.09	2000	
Sr	88	1	No Gas	0.049	0.049	3.00	2370	0.00	2000	
Mo	95	1	No Gas	-0.004	-0.004	-410.66	460	0.00	2000	
Sn	118	1	No Gas	0.155	0.155	19.30	2344	0.01	2000	
Sb	121	1	No Gas	0.110	0.110	9.47	1627	0.01	2000	
Ba	137	1	No Gas	0.239	0.239	9.09	1367	0.02	2000	
Tl	205	1	No Gas	0.014	0.014	15.94	553	0.00	2000	
Tl	203	1	No Gas	0.013	0.013	16.13	207	0.01	2000	
Pb	208	1	No Gas	-0.003	-0.003	-68.28	723	0.00	2000	
U	238	1	No Gas	0.003	0.003	30.10	130	0.00	2000	
Ca	43	2	He	15.980	15.980	40.37	90	17.76	200000	
Sb	121	2	He	0.112	0.112	17.28	797	0.01	2000	
Ti	47	2	He	0.019	0.019	283.24	23	0.08	2000	
Cu	63	1	No Gas	0.015	0.015	143.17	5795	0.00	2000	
Zn	66	1	No Gas	1.168	1.168	8.32	5378	0.02	2000	
Se	82	1	No Gas	0.172	0.172	51.75	-25	-0.68	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	826592	0.81	768064	107.62	70	120	
Ge	72	2	He	762376	0.86	709415	107.47	70	120	
Ge	72	1	No Gas	2481892	0.64	2282452	108.74	70	120	
In	115	1	No Gas	2556996	1.25	2434568	105.03	70	120	

Sample Report

Bi	209	1	No Gas	2114537	3.57	2062007	102.55	70	120	

Sample Report

Sample Table

Sample Name	LCS-197198
Data File Name	149SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T16:57:39-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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
Li	7	1	No Gas	93.529	93.529	2.24	1092686	0.01	2000	
Be	9	1	No Gas	45.950	45.950	1.21	167796	0.03	2000	
V	51	2	He	44.327	44.327	2.19	316920	0.01	2000	
Cr	52	2	He	44.275	44.275	2.01	360976	0.01	2000	
Fe	56	2	He	4675.239	4675.239	2.29	31337195	0.01	200000	
Se	78	2	He	44.972	44.972	1.46	6235	0.72	2000	
As	75	2	He	44.748	44.748	1.60	56061	0.08	2000	
Ca	44	2	He	4857.499	4857.499	2.83	261672	1.86	200000	
Na	23	2	He	4772.668	4772.668	2.68	5951148	0.08	200000	
Mg	24	2	He	4839.695	4839.695	2.67	3576967	0.14	200000	
K	39	2	He	4797.413	4797.413	2.29	5523347	0.09	200000	
Mn	55	2	He	45.249	45.249	2.95	278590	0.02	2000	
Co	59	2	He	44.164	44.164	2.32	460606	0.01	2000	
Ni	60	2	He	45.685	45.685	1.39	115387	0.04	2000	
Cu	63	2	He	45.323	45.323	2.29	287410	0.02	2000	
Zn	66	2	He	47.190	47.190	2.93	66557	0.07	2000	
Al	27	2	He	101.642	101.642	1.97	55819	0.18	2000	
B	11	1	No Gas	441.647	441.647	2.20	957942	0.05	2000	
Al	27	1	No Gas	102.424	102.424	1.15	1586885	0.01	2000	
Si	28	1	No Gas	545.663	545.663	2.18	4600314	0.01	2000	
Ag	107	1	No Gas	44.568	44.568	2.90	707196	0.01	2000	
Cd	111	1	No Gas	44.458	44.458	3.05	139917	0.03	2000	
Sr	88	1	No Gas	94.064	94.064	1.93	2902129	0.00	2000	
Mo	95	1	No Gas	43.975	43.975	2.13	280426	0.02	2000	
Sn	118	1	No Gas	91.485	91.485	2.16	857058	0.01	2000	
Sb	121	1	No Gas	44.338	44.338	1.90	626632	0.01	2000	
Ba	137	1	No Gas	43.511	43.511	2.88	225924	0.02	2000	
Tl	205	1	No Gas	38.870	38.870	0.79	925345	0.00	2000	
Tl	203	1	No Gas	38.488	38.488	1.94	385270	0.01	2000	
Pb	208	1	No Gas	43.630	43.630	1.58	1533332	0.00	2000	
U	238	1	No Gas	86.191	86.191	1.93	2910763	0.00	2000	
Ca	43	2	He	4782.179	4782.179	2.34	15546	30.76	200000	
Sb	121	2	He	45.624	45.624	2.86	318652	0.01	2000	
Ti	47	2	He	142.342	142.342	0.56	41269	0.34	2000	
Cu	63	1	No Gas	45.118	45.118	1.70	577318	0.01	2000	
Zn	66	1	No Gas	46.458	46.458	1.42	171275	0.03	2000	
Se	82	1	No Gas	44.478	44.478	4.84	10572	0.42	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	828524	1.88	768064	107.87	70	120	
Ge	72	2	He	780535	1.99	709415	110.03	70	120	
Ge	72	1	No Gas	2579119	1.94	2282452	113.00	70	120	
In	115	1	No Gas	2668447	2.76	2434568	109.61	70	120	

Sample Report

Bi	209	1	No Gas	2201483	0.29	2062007	106.76	70	120	

Sample Report

Sample Table

Sample Name	HS23061712-08
Data File Name	150SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T16:59:35-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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
Li	7	1	No Gas	11.622	11.622	2.96	179384	0.01	2000	
Be	9	1	No Gas	0.003	0.003	160.70	25	0.01	2000	
V	51	2	He	0.130	0.130	12.33	4250	0.00	2000	
Cr	52	2	He	21.752	21.752	2.19	182130	0.01	2000	
Fe	56	2	He	923.823	923.823	1.89	6072886	0.02	200000	
Se	78	2	He	-0.058	-0.058	-270.46	293	-0.02	2000	
As	75	2	He	0.167	0.167	19.51	501	0.03	2000	
Ca	44	2	He	24202.482	24202.482	1.24	1270542	1.90	200000	
Na	23	2	He	193986.621	193986.621	1.48	234161363	0.08	200000	>LDR
Mg	24	2	He	20724.649	20724.649	1.76	14981896	0.14	200000	
K	39	2	He	2144.284	2144.284	2.78	2528281	0.08	200000	
Mn	55	2	He	670.700	670.700	2.74	4026395	0.02	2000	
Co	59	2	He	18.687	18.687	1.12	190716	0.01	2000	
Ni	60	2	He	1356.616	1356.616	1.48	3342299	0.04	2000	
Cu	63	2	He	1.373	1.373	3.19	10821	0.01	2000	
Zn	66	2	He	1.890	1.890	4.21	3000	0.06	2000	
Al	27	2	He	5.422	5.422	2.28	3567	0.15	2000	
B	11	1	No Gas	31.354	31.354	3.55	115288	0.03	2000	
Al	27	1	No Gas	6.401	6.401	2.90	109411	0.01	2000	
Si	28	1	No Gas	12130.291	12130.291	1.56	91247355	0.01	2000	>LDR
Ag	107	1	No Gas	0.010	0.010	57.20	270	0.00	2000	
Cd	111	1	No Gas	0.120	0.120	17.24	359	0.03	2000	
Sr	88	1	No Gas	513.018	513.018	0.93	14819176	0.00	2000	
Mo	95	1	No Gas	1.741	1.741	2.27	10851	0.02	2000	
Sn	118	1	No Gas	0.284	0.284	16.34	3424	0.01	2000	
Sb	121	1	No Gas	0.101	0.101	12.32	1473	0.01	2000	
Ba	137	1	No Gas	493.737	493.737	2.26	2399426	0.02	2000	
Tl	205	1	No Gas	0.636	0.636	26.62	14362	0.00	2000	
Tl	203	1	No Gas	0.587	0.587	27.38	5568	0.01	2000	
Pb	208	1	No Gas	0.010	0.010	21.73	1123	0.00	2000	
U	238	1	No Gas	0.609	0.609	0.92	19195	0.00	2000	
Ca	43	2	He	23872.312	23872.312	1.73	75755	31.51	200000	
Sb	121	2	He	0.106	0.106	8.92	760	0.01	2000	
Ti	47	2	He	1.574	1.574	11.83	463	0.34	2000	
Cu	63	1	No Gas	2.593	2.593	1.64	36596	0.01	2000	
Zn	66	1	No Gas	2.001	2.001	6.18	8173	0.02	2000	
Se	82	1	No Gas	1.773	1.773	8.67	338	0.53	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	805861	1.36	768064	104.92	70	120	
Ge	72	2	He	763439	2.30	709415	107.62	70	120	
Ge	72	1	No Gas	2440674	0.56	2282452	106.93	70	120	
In	115	1	No Gas	2498735	0.98	2434568	102.64	70	120	
Bi	209	1	No Gas	2050918	1.66	2062007	99.46	70	120	

Sample Report

Sample Table

Sample Name	HS23061712-08SD
Data File Name	151SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:01:31-05:00
Sample Type	Sample
Dilution	5
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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
Li	7	1	No Gas	2.468	12.340	5.75	79969	0.00	2000	
Be	9	1	No Gas	0.000	0.002	964.41	17	0.00	2000	
V	51	2	He	0.019	0.095	249.95	3545	0.00	2000	
Cr	52	2	He	4.259	21.296	15.30	50272	0.01	2000	
Fe	56	2	He	184.756	923.780	11.69	1250806	0.01	200000	
Se	78	2	He	-0.446	-2.229	-49.39	247	-0.18	2000	
As	75	2	He	0.031	0.155	85.33	346	0.01	2000	
Ca	44	2	He	4696.750	23483.750	9.49	252178	1.86	200000	
Na	23	2	He	37879.863	189399.316	9.98	46613816	0.08	200000	
Mg	24	2	He	4028.484	20142.419	10.97	2964367	0.14	200000	
K	39	2	He	418.985	2094.927	13.82	671251	0.06	200000	
Mn	55	2	He	133.405	667.026	10.27	816331	0.02	2000	
Co	59	2	He	3.644	18.220	10.17	37937	0.01	2000	
Ni	60	2	He	271.077	1355.387	10.67	679961	0.04	2000	
Cu	63	2	He	0.053	0.264	114.86	2750	0.00	2000	
Zn	66	2	He	0.889	4.446	19.70	1657	0.05	2000	
Al	27	2	He	2.234	11.172	20.55	1937	0.12	2000	
B	11	1	No Gas	-1.674	-8.368	-32.27	49134	0.00	2000	
Al	27	1	No Gas	2.155	10.776	3.33	46478	0.00	2000	
Si	28	1	No Gas	2405.927	12029.633	1.01	17784055	0.01	2000	>LDR
Ag	107	1	No Gas	-0.002	-0.011	-34.66	83	0.00	2000	
Cd	111	1	No Gas	0.039	0.194	36.64	122	0.03	2000	
Sr	88	1	No Gas	104.207	521.035	1.34	3015803	0.00	2000	
Mo	95	1	No Gas	0.323	1.616	4.82	2407	0.01	2000	
Sn	118	1	No Gas	0.054	0.270	18.20	1403	0.00	2000	
Sb	121	1	No Gas	0.049	0.244	22.08	757	0.01	2000	
Ba	137	1	No Gas	96.057	480.283	1.13	467860	0.02	2000	
Tl	205	1	No Gas	0.080	0.402	21.63	1974	0.00	2000	
Tl	203	1	No Gas	0.076	0.379	21.70	777	0.01	2000	
Pb	208	1	No Gas	-0.008	-0.038	-42.36	537	0.00	2000	
U	238	1	No Gas	0.122	0.610	2.08	3831	0.00	2000	
Ca	43	2	He	4669.755	23348.773	9.04	15132	30.86	200000	
Sb	121	2	He	0.042	0.211	8.73	333	0.01	2000	
Ti	47	2	He	0.430	2.152	53.87	147	0.29	2000	
Cu	63	1	No Gas	0.317	1.587	3.56	9053	0.00	2000	
Zn	66	1	No Gas	0.989	4.945	5.57	4537	0.02	2000	
Se	82	1	No Gas	0.180	0.898	68.26	-22	-0.81	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	799087	2.60	768064	104.04	70	120	
Ge	72	2	He	782110	9.26	709415	110.25	70	120	
Ge	72	1	No Gas	2371012	1.79	2282452	103.88	70	120	
In	115	1	No Gas	2503415	2.24	2434568	102.83	70	120	

Sample Report

Bi	209	1	No Gas	2024696	1.02	2062007	98.19	70	120	

Sample Report

Sample Table

Sample Name	HS23061712-08MS
Data File Name	152SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:03:40-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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
Li	7	1	No Gas	107.311	107.311	0.78	1121449	0.01	2000	
Be	9	1	No Gas	47.784	47.784	1.24	157107	0.03	2000	
V	51	2	He	44.481	44.481	1.01	293026	0.02	2000	
Cr	52	2	He	65.213	65.213	1.23	482304	0.01	2000	
Fe	56	2	He	5462.571	5462.571	0.46	33736963	0.02	200000	
Se	78	2	He	44.584	44.584	1.34	5698	0.78	2000	
As	75	2	He	45.422	45.422	1.60	52428	0.09	2000	
Ca	44	2	He	28506.267	28506.267	1.68	1409367	2.02	200000	
Na	23	2	He	195564.249	195564.249	1.38	222359963	0.09	200000	>LDR
Mg	24	2	He	25042.036	25042.036	1.87	17053550	0.15	200000	
K	39	2	He	6671.038	6671.038	0.76	7001775	0.10	200000	
Mn	55	2	He	686.695	686.695	0.92	3884129	0.02	2000	
Co	59	2	He	60.974	60.974	0.80	585948	0.01	2000	
Ni	60	2	He	1381.146	1381.146	0.46	3204820	0.04	2000	
Cu	63	2	He	44.222	44.222	1.43	258447	0.02	2000	
Zn	66	2	He	46.512	46.512	1.63	60455	0.08	2000	
Al	27	2	He	95.089	95.089	1.14	48157	0.20	2000	
B	11	1	No Gas	494.978	494.978	4.31	960644	0.05	2000	
Al	27	1	No Gas	100.850	100.850	1.33	1381074	0.01	2000	
Si	28	1	No Gas	12492.706	12492.706	0.99	87750485	0.01	2000	>LDR
Ag	107	1	No Gas	43.850	43.850	1.86	619318	0.01	2000	
Cd	111	1	No Gas	44.686	44.686	1.63	125200	0.04	2000	
Sr	88	1	No Gas	599.464	599.464	0.85	16452470	0.00	2000	
Mo	95	1	No Gas	47.586	47.586	1.11	270024	0.02	2000	
Sn	118	1	No Gas	93.581	93.581	0.72	780319	0.01	2000	
Sb	121	1	No Gas	46.744	46.744	1.77	583902	0.01	2000	
Ba	137	1	No Gas	517.794	517.794	2.64	2390778	0.02	2000	
Tl	205	1	No Gas	40.611	40.611	4.59	862203	0.00	2000	
Tl	203	1	No Gas	40.113	40.113	4.59	358106	0.01	2000	
Pb	208	1	No Gas	43.798	43.798	5.01	1372562	0.00	2000	
U	238	1	No Gas	96.622	96.622	5.47	2909208	0.00	2000	
Ca	43	2	He	28936.285	28936.285	0.81	86498	33.45	200000	
Sb	121	2	He	45.053	45.053	1.02	289947	0.02	2000	
Ti	47	2	He	139.308	139.308	1.63	37207	0.37	2000	
Cu	63	1	No Gas	47.635	47.635	1.05	538464	0.01	2000	
Zn	66	1	No Gas	48.312	48.312	0.60	157385	0.03	2000	
Se	82	1	No Gas	45.923	45.923	1.81	9658	0.48	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	746007	1.29	768064	97.13	70	120	
Ge	72	2	He	719048	0.93	709415	101.36	70	120	
Ge	72	1	No Gas	2279620	2.17	2282452	99.88	70	120	
In	115	1	No Gas	2374475	1.85	2434568	97.53	70	120	
Bi	209	1	No Gas	1966302	5.00	2062007	95.36	70	120	

Sample Report

Sample Table

Sample Name	HS23061712-08MSD
Data File Name	153SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:05:45-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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
Li	7	1	No Gas	105.712	105.712	2.25	1171226	0.01	2000	
Be	9	1	No Gas	47.023	47.023	1.26	163825	0.03	2000	
V	51	2	He	44.676	44.676	0.61	304916	0.01	2000	
Cr	52	2	He	65.798	65.798	0.54	504030	0.01	2000	
Fe	56	2	He	5518.419	5518.419	0.62	35308774	0.02	200000	
Se	78	2	He	45.697	45.697	3.46	6042	0.76	2000	
As	75	2	He	46.244	46.244	0.70	55298	0.08	2000	
Ca	44	2	He	29097.771	29097.771	1.63	1490387	1.95	200000	
Na	23	2	He	197336.312	197336.312	1.75	232445450	0.08	200000	>LDR
Mg	24	2	He	25169.590	25169.590	1.58	17759071	0.14	200000	
K	39	2	He	6733.783	6733.783	1.96	7320129	0.09	200000	
Mn	55	2	He	694.482	694.482	1.53	4069412	0.02	2000	
Co	59	2	He	61.145	61.145	1.51	608731	0.01	2000	
Ni	60	2	He	1388.797	1388.797	2.49	3338253	0.04	2000	
Cu	63	2	He	45.035	45.035	2.14	272619	0.02	2000	
Zn	66	2	He	47.469	47.469	0.80	63921	0.07	2000	
Al	27	2	He	96.075	96.075	0.94	50405	0.19	2000	
B	11	1	No Gas	488.642	488.642	0.82	1005885	0.05	2000	
Al	27	1	No Gas	102.008	102.008	2.53	1437475	0.01	2000	
Si	28	1	No Gas	12561.603	12561.603	1.17	90818045	0.01	2000	>LDR
Ag	107	1	No Gas	44.087	44.087	1.01	643043	0.01	2000	
Cd	111	1	No Gas	46.003	46.003	0.59	133088	0.03	2000	
Sr	88	1	No Gas	600.767	600.767	1.52	17025552	0.00	2000	
Mo	95	1	No Gas	47.710	47.710	1.18	279569	0.02	2000	
Sn	118	1	No Gas	94.490	94.490	0.45	813566	0.01	2000	
Sb	121	1	No Gas	47.182	47.182	0.98	606667	0.01	2000	
Ba	137	1	No Gas	533.131	533.131	1.50	2542201	0.02	2000	
Tl	205	1	No Gas	42.398	42.398	3.27	908354	0.00	2000	
Tl	203	1	No Gas	42.038	42.038	2.42	378787	0.01	2000	
Pb	208	1	No Gas	44.835	44.835	3.15	1418123	0.00	2000	
U	238	1	No Gas	98.305	98.305	3.98	2987577	0.00	2000	
Ca	43	2	He	28957.098	28957.098	1.62	89664	32.30	200000	
Sb	121	2	He	45.924	45.924	2.42	306160	0.01	2000	
Ti	47	2	He	142.197	142.197	1.15	39353	0.36	2000	
Cu	63	1	No Gas	48.229	48.229	0.72	561048	0.01	2000	
Zn	66	1	No Gas	48.049	48.049	2.03	161109	0.03	2000	
Se	82	1	No Gas	47.989	47.989	5.85	10389	0.46	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	790539	1.82	768064	102.93	70	120	
Ge	72	2	He	744954	1.16	709415	105.01	70	120	
Ge	72	1	No Gas	2346019	1.24	2282452	102.79	70	120	
In	115	1	No Gas	2451615	0.53	2434568	100.70	70	120	
Bi	209	1	No Gas	1982244	2.21	2062007	96.13	70	120	

Sample Report

Sample Table

Sample Name	HS23061712-08PDS
Data File Name	154SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:07:42-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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
Li	7	1	No Gas	11.641	11.641	2.35	177173	0.01	2000	
Be	9	1	No Gas	97.679	97.679	2.05	342224	0.03	2000	
V	51	2	He	92.731	92.731	2.85	618924	0.01	2000	
Cr	52	2	He	113.141	113.141	2.64	840585	0.01	2000	
Fe	56	2	He	10475.517	10475.517	2.93	65898351	0.02	200000	
Se	78	2	He	95.437	95.437	3.30	12097	0.79	2000	
As	75	2	He	95.311	95.311	2.80	111774	0.09	2000	
Ca	44	2	He	33266.181	33266.181	2.86	1675753	1.99	200000	
Na	23	2	He	203182.576	203182.576	2.86	235391483	0.09	200000	>LDR
Mg	24	2	He	30574.557	30574.557	5.33	21205793	0.14	200000	
K	39	2	He	11873.717	11873.717	2.73	12544214	0.09	200000	
Mn	55	2	He	746.124	746.124	1.70	4300700	0.02	2000	
Co	59	2	He	111.603	111.603	4.12	1092445	0.01	2000	
Ni	60	2	He	1421.922	1421.922	3.14	3361443	0.04	2000	
Cu	63	2	He	91.208	91.208	2.64	540725	0.02	2000	
Zn	66	2	He	95.986	95.986	3.09	126701	0.08	2000	
Al	27	2	He	101.183	101.183	2.72	52172	0.19	2000	
B	11	1	No Gas	36.385	36.385	4.00	123611	0.03	2000	
Al	27	1	No Gas	106.012	106.012	3.04	1512679	0.01	2000	
Si	28	1	No Gas	12322.866	12322.866	3.16	90243992	0.01	2000	>LDR
Ag	107	1	No Gas	96.284	96.284	0.76	1392083	0.01	2000	
Cd	111	1	No Gas	96.951	96.951	1.55	278012	0.03	2000	
Sr	88	1	No Gas	516.430	516.430	1.18	14511769	0.00	2000	
Mo	95	1	No Gas	100.159	100.159	0.20	581349	0.02	2000	
Sn	118	1	No Gas	0.301	0.301	3.40	3467	0.01	2000	
Sb	121	1	No Gas	93.916	93.916	2.23	1223293	0.01	2000	
Ba	137	1	No Gas	586.282	586.282	2.21	2771144	0.02	2000	
Tl	205	1	No Gas	103.684	103.684	1.23	2271266	0.00	2000	
Tl	203	1	No Gas	100.381	100.381	3.70	924243	0.01	2000	
Pb	208	1	No Gas	92.655	92.655	2.19	2995535	0.00	2000	
U	238	1	No Gas	0.618	0.618	2.86	19249	0.00	2000	
Ca	43	2	He	33302.049	33302.049	3.22	101405	32.84	200000	
Sb	121	2	He	90.212	90.212	2.40	591553	0.02	2000	
Ti	47	2	He	96.314	96.314	3.13	26215	0.37	2000	
Cu	63	1	No Gas	96.346	96.346	1.26	1130381	0.01	2000	
Zn	66	1	No Gas	97.188	97.188	1.92	328898	0.03	2000	
Se	82	1	No Gas	96.113	96.113	2.29	21142	0.45	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	795055	1.44	768064	103.51	70	120	
Ge	72	2	He	732919	2.44	709415	103.31	70	120	
Ge	72	1	No Gas	2377418	2.29	2282452	104.16	70	120	
In	115	1	No Gas	2430558	1.77	2434568	99.84	70	120	
Bi	209	1	No Gas	2026494	2.75	2062007	98.28	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	155_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:09:36-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
n	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
Li	7	1	No Gas	99.052	2.457	1023349	2.60	100	99.1	90	110	
Be	9	1	No Gas	98.015	0.900	317406	1.37	100	98.0	90	110	
V	51	2	He	95.312	1.592	596472	0.55	100	95.3	90	110	
Cr	52	2	He	95.431	1.347	667260	0.10	100	95.4	90	110	
Fe	56	2	He	9743.424	2.402	57475572	1.18	10000	97.4	90	110	
Se	78	2	He	96.268	0.726	11442	1.07	100	96.3	90	110	
As	75	2	He	94.863	1.795	104322	0.52	100	94.9	90	110	
Ca	44	2	He	9911.426	1.318	468958	0.48	10000	99.1	90	110	
Na	23	2	He	9610.457	1.555	10495318	1.97	10000	96.1	90	110	
Mg	24	2	He	9860.753	1.968	6416529	1.71	10000	98.6	90	110	
K	39	2	He	9854.869	1.500	9794492	0.14	10000	98.5	90	110	
Mn	55	2	He	98.051	1.787	530581	0.78	100	98.1	90	110	
Co	59	2	He	94.073	1.778	863689	0.45	100	94.1	90	110	
Ni	60	2	He	95.948	0.937	213008	0.68	100	95.9	90	110	
Cu	63	2	He	94.639	1.936	526017	0.60	100	94.6	90	110	
Zn	66	2	He	96.096	0.686	118965	1.04	100	96.1	90	110	
Al	27	2	He	96.486	1.028	46685	1.65	100	96.5	90	110	
B	11	1	No Gas	475.874	2.774	911649	1.62	500	95.2	90	110	
Al	27	1	No Gas	104.020	2.314	1367931	3.56	100	104.0	90	110	
Si	28	1	No Gas	520.924	1.906	3739031	1.22	5000	10.4	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	98.173	0.947	1355191	1.71	100	98.2	90	110	
Cd	111	1	No Gas	96.670	3.020	264624	1.63	100	96.7	90	110	
Sr	88	1	No Gas	100.114	2.665	2685323	0.28	100	100.1	90	110	
Mo	95	1	No Gas	95.975	2.241	531715	0.30	100	96.0	90	110	
Sn	118	1	No Gas	98.553	2.649	802901	1.14	100	98.6	90	110	
Sb	121	1	No Gas	98.076	2.978	1176300	0.37	100	98.1	90	110	
Ba	137	1	No Gas	96.720	2.365	436586	0.95	100	96.7	90	110	
Tl	205	1	No Gas	101.923	3.489	2120021	1.75	100	101.9	90	110	
Tl	203	1	No Gas	102.207	3.192	893994	1.32	100	102.2	90	110	
Pb	208	1	No Gas	95.099	2.947	2919860	0.54	100	95.1	90	110	
U	238	1	No Gas	97.914	3.741	2889657	2.25	100	97.9	90	110	
Ca	43	2	He	9678.808	0.225	27668	1.32	10000	96.8	90	110	
Sb	121	2	He	94.880	0.892	583428	0.73	100	94.9	90	110	
Ti	47	2	He	95.706	1.547	24432	1.86	100	95.7	90	110	
Cu	63	1	No Gas	98.307	2.969	1061735	0.69	100	98.3	90	110	
Se	82	1	No Gas	98.899	6.535	20016	3.75	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
Li	6	1	No Gas	734769	1.29	768064	95.66	70	120	
Ge	72	2	He	687075	1.33	709415	96.85	70	120	
Ge	72	1	No Gas	2189719	2.91	2282452	95.94	70	120	
In	115	1	No Gas	2320763	2.45	2434568	95.33	70	120	
Bi	209	1	No Gas	1924776	2.46	2062007	93.34	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	156_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:11:30-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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
Li	7	1	No Gas	-0.036	-169.2	51270	1.6	0.5	
Be	9	1	No Gas	0.014	16.9	63	12.1	0.5	
V	51	2	He	-0.052	-28.3	2705	4.2	2.5	
Cr	52	2	He	0.187	47.1	16687	3.9	2.5	
Fe	56	2	He	1.166	8.6	23804	2.4	100	
Se	78	2	He	-0.135	-110.8	255	6.8	2	
As	75	2	He	0.042	112.5	316	17.1	2.5	
Ca	44	2	He	-3.045	-75.4	970	10.8	100	
Na	23	2	He	40.233	3.6	100100	0.7	100	
Mg	24	2	He	1.131	11.7	1213	8.0	100	
K	39	2	He	19.587	10.7	204496	1.1	100	
Mn	55	2	He	0.109	9.8	1400	4.0	2.5	
Co	59	2	He	0.009	50.3	160	25.0	2.5	
Ni	60	2	He	0.014	262.8	337	24.9	2.5	
Cu	63	2	He	-0.251	-3.5	753	5.4	2	
Zn	66	2	He	0.358	23.7	813	13.5	2.5	
Al	27	2	He	-0.115	-112.9	570	10.7	5	
B	11	1	No Gas	-1.468	-51.6	47742	2.1	0.5	
Al	27	1	No Gas	0.023	251.7	15352	6.0	5	
Si	28	1	No Gas	0.473	140.1	240518	1.4	10	
Ag	107	1	No Gas	0.007	111.9	200	49.2	2.5	
Cd	111	1	No Gas	0.006	31.7	22	26.8	1	
Sr	88	1	No Gas	0.019	20.3	1370	11.6	2.5	
Mo	95	1	No Gas	0.078	41.3	873	17.2	2.5	
Sn	118	1	No Gas	0.173	23.4	2294	17.7	5	
Sb	121	1	No Gas	0.453	4.3	5608	3.6	2.5	
Ba	137	1	No Gas	0.036	30.0	330	18.9	2.5	
Tl	205	1	No Gas	0.238	21.6	5235	21.2	1	
Tl	203	1	No Gas	0.223	16.6	2054	16.2	1	
Pb	208	1	No Gas	-0.005	-46.8	600	13.0	2.5	
U	238	1	No Gas	0.021	20.3	683	19.9	2.5	
Ca	43	2	He	8.461	122.5	60	50.0	100	
Sb	121	2	He	0.422	3.6	2637	4.5	2.5	
Ti	47	2	He	-0.037	-119.9	7	173.2	2.5	
Cu	63	1	No Gas	-0.296	-6.3	1783	12.5	2.5	
Se	82	1	No Gas	0.319	93.4	8	786.0	2	

QC ISTD Table

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

Continuing Calibration Blank (CCB) Report

Li	6	1	No Gas	769945	0.99	768064	100.24	70	120	
Ge	72	2	He	689941	1.02	709415	97.26	70	120	
Ge	72	1	No Gas	2212850	1.08	2282452	96.95	70	120	
In	115	1	No Gas	2335914	3.78	2434568	95.95	70	120	
Bi	209	1	No Gas	1954085	1.40	2062007	94.77	70	120	

Sample Report

Sample Table

Sample Name	HS23061712-03
Data File Name	166SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:39:42-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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
Li	7	1	No Gas	279.239	279.239	3.86	3237729	0.01	2000	
Be	9	1	No Gas	0.010	0.010	4.57	53	0.02	2000	
V	51	2	He	0.032	0.032	14.58	3743	0.00	2000	
Cr	52	2	He	3.425	3.425	2.90	45105	0.01	2000	
Fe	56	2	He	9077.391	9077.391	1.80	62358201	0.01	200000	
Se	78	2	He	-0.560	-0.560	-30.08	239	-0.23	2000	
As	75	2	He	1.062	1.062	6.44	1669	0.06	2000	
Ca	44	2	He	61596.612	61596.612	1.54	3386813	1.82	200000	
Na	23	2	He	127707.176	127707.176	0.58	161585931	0.08	200000	
Mg	24	2	He	11603.338	11603.338	1.35	8791993	0.13	200000	
K	39	2	He	44261.532	44261.532	2.26	50474231	0.09	200000	
Mn	55	2	He	296.655	296.655	2.09	1867543	0.02	2000	
Co	59	2	He	0.318	0.318	6.58	3491	0.01	2000	
Ni	60	2	He	1.005	1.005	1.99	2947	0.03	2000	
Cu	63	2	He	0.333	0.333	14.39	4641	0.01	2000	
Zn	66	2	He	3.360	3.360	2.94	5258	0.06	2000	
Al	27	2	He	32.905	32.905	9.85	19026	0.17	2000	
B	11	1	No Gas	90.896	90.896	3.69	246964	0.04	2000	
Al	27	1	No Gas	37.869	37.869	14.19	608316	0.01	2000	
Si	28	1	No Gas	12910.492	12910.492	3.00	104531102	0.01	2000	>LDR
Ag	107	1	No Gas	0.005	0.005	87.33	203	0.00	2000	
Cd	111	1	No Gas	0.045	0.045	57.91	152	0.03	2000	
Sr	88	1	No Gas	5594.113	5594.113	3.69	175518077	0.00	2000	>LDR
Mo	95	1	No Gas	0.328	0.328	11.08	2640	0.01	2000	
Sn	118	1	No Gas	0.074	0.074	9.17	1713	0.00	2000	
Sb	121	1	No Gas	0.136	0.136	7.15	2100	0.01	2000	
Ba	137	1	No Gas	392.911	392.911	4.41	2074275	0.02	2000	
Tl	205	1	No Gas	-0.006	-0.006	-20.08	87	-0.01	2000	
Tl	203	1	No Gas	-0.003	-0.003	-18.47	57	0.00	2000	
Pb	208	1	No Gas	0.245	0.245	3.97	9368	0.00	2000	
U	238	1	No Gas	0.033	0.033	12.33	1133	0.00	2000	
Ca	43	2	He	67505.453	67505.453	1.33	224456	30.08	200000	
Sb	121	2	He	0.149	0.149	1.81	1107	0.01	2000	
Ti	47	2	He	4.681	4.681	89.96	1416	0.33	2000	
Cu	63	1	No Gas	1.234	1.234	2.25	21868	0.01	2000	
Zn	66	1	No Gas	3.215	3.215	1.50	13327	0.02	2000	
Se	82	1	No Gas	2.131	2.131	37.66	452	0.47	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	851527	2.38	768064	110.87	70	120	
Ge	72	2	He	800005	0.87	709415	112.77	70	120	
Ge	72	1	No Gas	2628323	1.50	2282452	115.15	70	120	
In	115	1	No Gas	2716169	2.73	2434568	111.57	70	120	
Bi	209	1	No Gas	2177858	1.54	2062007	105.62	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	167_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:41:42-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
n	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
Li	7	1	No Gas	94.817	5.699	960416	1.51	100	94.8	90	110	
Be	9	1	No Gas	93.775	3.357	297259	1.17	100	93.8	90	110	
V	51	2	He	95.574	1.203	545873	0.24	100	95.6	90	110	
Cr	52	2	He	95.844	1.377	611556	0.41	100	95.8	90	110	
Fe	56	2	He	9696.028	2.814	52198704	1.67	10000	97.0	90	110	
Se	78	2	He	96.295	0.668	10445	0.81	100	96.3	90	110	
As	75	2	He	95.525	1.897	95873	0.96	100	95.5	90	110	
Ca	44	2	He	9905.042	1.673	427715	0.98	10000	99.1	90	110	
Na	23	2	He	9766.464	1.168	9732284	0.05	10000	97.7	90	110	
Mg	24	2	He	9789.420	1.042	5813704	0.55	10000	97.9	90	110	
K	39	2	He	9893.658	1.235	8973943	0.98	10000	98.9	90	110	
Mn	55	2	He	97.164	1.409	479870	0.27	100	97.2	90	110	
Co	59	2	He	93.748	1.696	785533	0.60	100	93.7	90	110	
Ni	60	2	He	96.989	2.336	196491	1.51	100	97.0	90	110	
Cu	63	2	He	94.585	1.264	479828	0.23	100	94.6	90	110	
Zn	66	2	He	96.182	0.281	108672	1.15	100	96.2	90	110	
Al	27	2	He	96.082	1.814	42425	0.72	100	96.1	90	110	
B	11	1	No Gas	449.191	5.797	844605	1.11	500	89.8	90	110	CCV Main CR1-2 Failed
Al	27	1	No Gas	102.615	1.545	1255381	1.67	100	102.6	90	110	
Si	28	1	No Gas	521.694	3.548	3482796	1.87	5000	10.4	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.577	2.447	1273552	3.30	100	99.6	90	110	
Cd	111	1	No Gas	95.693	0.281	242739	1.21	100	95.7	90	110	
Sr	88	1	No Gas	102.093	1.049	2537493	1.00	100	102.1	90	110	
Mo	95	1	No Gas	96.408	0.738	494932	1.66	100	96.4	90	110	
Sn	118	1	No Gas	98.379	0.285	742685	1.21	100	98.4	90	110	
Sb	121	1	No Gas	94.543	2.393	1055128	1.30	100	94.5	90	110	
Ba	137	1	No Gas	96.312	1.139	402837	1.60	100	96.3	90	110	
Tl	205	1	No Gas	102.411	1.732	2010279	0.59	100	102.4	90	110	
Tl	203	1	No Gas	100.874	3.024	832502	1.08	100	100.9	90	110	
Pb	208	1	No Gas	94.464	3.091	2736483	0.91	100	94.5	90	110	
U	238	1	No Gas	95.763	2.805	2666709	0.75	100	95.8	90	110	
Ca	43	2	He	9602.004	0.636	25050	0.68	10000	96.0	90	110	
Sb	121	2	He	94.381	1.160	529647	0.36	100	94.4	90	110	
Ti	47	2	He	96.379	0.760	22455	1.65	100	96.4	90	110	
Cu	63	1	No Gas	98.366	0.650	988690	1.03	100	98.4	90	110	
Se	82	1	No Gas	96.013	3.085	18097	3.56	100	96.0	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	719947	4.50	768064	93.74	70	120	
Ge	72	2	He	627048	1.14	709415	88.39	70	120	
Ge	72	1	No Gas	2036811	1.48	2282452	89.24	70	120	
In	115	1	No Gas	2149633	0.93	2434568	88.30	70	120	
Bi	209	1	No Gas	1815990	2.24	2062007	88.07	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	168_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:43:34-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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
Li	7	1	No Gas	0.350	25.2	50699	1.0	0.5	
Be	9	1	No Gas	0.003	131.3	23	53.9	0.5	
V	51	2	He	-0.093	-25.4	2206	5.7	2.5	
Cr	52	2	He	0.345	17.2	16030	2.2	2.5	
Fe	56	2	He	2.597	6.5	29116	2.8	100	
Se	78	2	He	-0.011	-820.6	243	3.9	2	
As	75	2	He	0.038	128.5	280	16.9	2.5	
Ca	44	2	He	-0.594	-402.6	980	10.4	100	
Na	23	2	He	75.660	4.8	125147	2.7	100	
Mg	24	2	He	1.379	14.5	1240	9.8	100	
K	39	2	He	36.067	7.8	199003	1.0	100	
Mn	55	2	He	0.124	14.3	1337	6.4	2.5	
Co	59	2	He	0.006	206.4	123	88.9	2.5	
Ni	60	2	He	0.046	83.5	367	21.2	2.5	
Cu	63	2	He	-0.229	-3.8	790	5.8	2	
Zn	66	2	He	0.444	18.8	830	11.5	2.5	
Al	27	2	He	0.061	503.5	590	22.0	5	
B	11	1	No Gas	-5.164	-27.5	37343	4.9	0.5	
Al	27	1	No Gas	0.134	71.0	15266	8.1	5	
Si	28	1	No Gas	4.360	16.6	242395	0.5	10	
Ag	107	1	No Gas	0.002	106.5	123	20.4	2.5	
Cd	111	1	No Gas	0.004	213.3	16	133.4	1	
Sr	88	1	No Gas	0.108	10.9	3467	9.4	2.5	
Mo	95	1	No Gas	0.032	52.4	577	15.7	2.5	
Sn	118	1	No Gas	0.103	31.4	1580	16.3	5	
Sb	121	1	No Gas	0.367	14.2	4144	12.5	2.5	
Ba	137	1	No Gas	0.045	27.7	337	14.7	2.5	
Tl	205	1	No Gas	0.231	31.2	4648	33.1	1	
Tl	203	1	No Gas	0.226	29.9	1904	32.0	1	
Pb	208	1	No Gas	-0.003	-88.0	610	14.3	2.5	
U	238	1	No Gas	0.021	20.3	607	22.0	2.5	
Ca	43	2	He	4.313	104.6	43	26.6	100	
Sb	121	2	He	0.313	5.9	1773	5.7	2.5	
Ti	47	2	He	0.009	761.0	17	91.7	2.5	
Cu	63	1	No Gas	-0.272	-5.4	1857	7.7	2.5	
Se	82	1	No Gas	0.144	114.6	-26	-119.0	2	

QC ISTD Table

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

Continuing Calibration Blank (CCB) Report

Li	6	1	No Gas	706661	2.33	768064	92.01	70	120	
Ge	72	2	He	622297	0.33	709415	87.72	70	120	
Ge	72	1	No Gas	2009497	1.32	2282452	88.04	70	120	
In	115	1	No Gas	2154657	0.98	2434568	88.50	70	120	
Bi	209	1	No Gas	1773987	3.29	2062007	86.03	70	120	

Sample Report

Sample Table

Sample Name	HS23061712-04
Data File Name	170SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:47:45-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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
Li	7	1	No Gas	274.550	274.550	4.86	2445472	0.01	2000	
Be	9	1	No Gas	0.010	0.010	55.28	40	0.02	2000	
V	51	2	He	0.019	0.019	184.08	2890	0.00	2000	
Cr	52	2	He	3.680	3.680	3.14	37355	0.01	2000	
Fe	56	2	He	8693.929	8693.929	2.65	47323761	0.02	200000	
Se	78	2	He	-0.017	-0.017	-430.61	247	-0.01	2000	
As	75	2	He	0.987	0.987	3.22	1247	0.08	2000	
Ca	44	2	He	59093.078	59093.078	6.04	2573586	2.30	200000	
Na	23	2	He	123900.091	123900.091	2.26	124220611	0.10	200000	
Mg	24	2	He	11341.416	11341.416	2.28	6809582	0.17	200000	
K	39	2	He	42182.940	42182.940	2.43	38124741	0.11	200000	
Mn	55	2	He	284.255	284.255	1.18	1418104	0.02	2000	
Co	59	2	He	0.284	0.284	6.96	2480	0.01	2000	
Ni	60	2	He	1.565	1.565	7.46	3481	0.04	2000	
Cu	63	2	He	0.468	0.468	11.44	4364	0.01	2000	
Zn	66	2	He	2.895	2.895	1.88	3637	0.08	2000	
Al	27	2	He	29.747	29.747	16.99	13651	0.22	2000	
B	11	1	No Gas	89.275	89.275	7.37	186957	0.05	2000	
Al	27	1	No Gas	30.017	30.017	0.54	379113	0.01	2000	
Si	28	1	No Gas	12292.676	12292.676	1.51	77583119	0.02	2000	>LDR
Ag	107	1	No Gas	0.004	0.004	27.45	157	0.00	2000	
Cd	111	1	No Gas	0.066	0.066	7.99	174	0.04	2000	
Sr	88	1	No Gas	5373.871	5373.871	0.18	134182365	0.00	2000	>LDR
Mo	95	1	No Gas	0.349	0.349	7.84	2210	0.02	2000	
Sn	118	1	No Gas	0.141	0.141	64.05	1867	0.01	2000	
Sb	121	1	No Gas	0.138	0.138	13.53	1660	0.01	2000	
Ba	137	1	No Gas	373.281	373.281	1.58	1568257	0.02	2000	
Tl	205	1	No Gas	0.001	0.001	109.81	203	0.00	2000	
Tl	203	1	No Gas	-0.004	-0.004	-34.50	37	-0.01	2000	
Pb	208	1	No Gas	0.231	0.231	2.46	7268	0.00	2000	
U	238	1	No Gas	0.034	0.034	4.23	983	0.00	2000	
Ca	43	2	He	63807.933	63807.933	2.66	168103	37.96	200000	
Sb	121	2	He	0.149	0.149	10.84	877	0.02	2000	
Ti	47	2	He	2.373	2.373	19.27	573	0.41	2000	
Cu	63	1	No Gas	1.255	1.255	6.66	17255	0.01	2000	
Zn	66	1	No Gas	2.774	2.774	1.96	9103	0.03	2000	
Se	82	1	No Gas	1.375	1.375	34.70	208	0.66	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	654735	5.51	768064	85.24	70	120	
Ge	72	2	He	634074	1.97	709415	89.38	70	120	
Ge	72	1	No Gas	2047991	0.46	2282452	89.73	70	120	
In	115	1	No Gas	2160119	1.47	2434568	88.73	70	120	
Bi	209	1	No Gas	1786619	2.72	2062007	86.64	70	120	

Sample Report

Sample Table

Sample Name	HS23061712-05
Data File Name	171SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:49:45-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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
Li	7	1	No Gas	46.004	46.004	2.95	477273	0.01	2000	
Be	9	1	No Gas	0.045	0.045	19.86	152	0.03	2000	
V	51	2	He	0.039	0.039	18.10	2989	0.00	2000	
Cr	52	2	He	2.122	2.122	2.40	27391	0.01	2000	
Fe	56	2	He	43693.635	43693.635	1.17	236599576	0.02	200000	
Se	78	2	He	0.127	0.127	159.92	261	0.05	2000	
As	75	2	He	6.549	6.549	1.49	6842	0.10	2000	
Ca	44	2	He	33232.795	33232.795	1.54	1441205	2.31	200000	
Na	23	2	He	94496.714	94496.714	0.88	94283079	0.10	200000	
Mg	24	2	He	20793.722	20793.722	0.37	12422125	0.17	200000	
K	39	2	He	10239.007	10239.007	1.70	9335503	0.11	200000	
Mn	55	2	He	491.938	491.938	0.98	2441227	0.02	2000	
Co	59	2	He	0.795	0.795	2.70	6772	0.01	2000	
Ni	60	2	He	1.971	1.971	4.67	4291	0.05	2000	
Cu	63	2	He	0.155	0.155	27.91	2750	0.01	2000	
Zn	66	2	He	5.433	5.433	4.25	6495	0.08	2000	
Al	27	2	He	17.243	17.243	6.18	8133	0.21	2000	
B	11	1	No Gas	19.511	19.511	10.96	79531	0.02	2000	
Al	27	1	No Gas	18.572	18.572	1.44	243830	0.01	2000	
Si	28	1	No Gas	17591.145	17591.145	3.70	112694942	0.02	2000	>LDR
Ag	107	1	No Gas	0.030	0.030	12.05	490	0.01	2000	
Cd	111	1	No Gas	0.037	0.037	30.41	100	0.04	2000	
Sr	88	1	No Gas	788.038	788.038	2.33	19850051	0.00	2000	
Mo	95	1	No Gas	0.409	0.409	37.20	2532	0.02	2000	
Sn	118	1	No Gas	0.135	0.135	14.31	1840	0.01	2000	
Sb	121	1	No Gas	0.092	0.092	5.45	1157	0.01	2000	
Ba	137	1	No Gas	921.560	921.560	1.89	3906216	0.02	2000	
Tl	205	1	No Gas	-0.001	-0.001	-96.25	163	0.00	2000	
Tl	203	1	No Gas	-0.002	-0.002	-199.36	50	0.00	2000	
Pb	208	1	No Gas	0.058	0.058	12.09	2343	0.00	2000	
U	238	1	No Gas	0.048	0.048	9.33	1360	0.00	2000	
Ca	43	2	He	32969.812	32969.812	1.53	86444	38.14	200000	
Sb	121	2	He	0.115	0.115	4.68	677	0.02	2000	
Ti	47	2	He	2.005	2.005	26.82	483	0.41	2000	
Cu	63	1	No Gas	0.786	0.786	6.05	12736	0.01	2000	
Zn	66	1	No Gas	5.403	5.403	3.30	17011	0.03	2000	
Se	82	1	No Gas	1.844	1.844	24.70	301	0.61	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	699495	4.00	768064	91.07	70	120	
Ge	72	2	He	630757	1.22	709415	88.91	70	120	
Ge	72	1	No Gas	2082462	3.83	2282452	91.24	70	120	
In	115	1	No Gas	2179740	2.00	2434568	89.53	70	120	

Sample Report

Bi	209	1	No Gas	1790429	3.66	2062007	86.83	70	120	

Sample Report

Sample Table

Sample Name	HS23061712-06
Data File Name	172SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:51:43-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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
Li	7	1	No Gas	335.823	335.823	1.64	2817449	0.01	2000	
Be	9	1	No Gas	0.002	0.002	61.34	17	0.01	2000	
V	51	2	He	-0.103	-0.103	-19.38	2105	0.00	2000	
Cr	52	2	He	4.229	4.229	4.16	39230	0.01	2000	
Fe	56	2	He	746.425	746.425	1.67	3920004	0.02	200000	
Se	78	2	He	0.226	0.226	69.14	263	0.09	2000	
As	75	2	He	1.353	1.353	4.21	1555	0.09	2000	
Ca	44	2	He	22248.855	22248.855	2.76	932697	2.39	200000	
Na	23	2	He	408331.369	408331.369	0.65	393486061	0.10	200000	>LDR
Mg	24	2	He	12038.776	12038.776	0.97	6948906	0.17	200000	
K	39	2	He	72587.528	72587.528	0.59	62955547	0.12	200000	
Mn	55	2	He	46.731	46.731	1.05	224707	0.02	2000	
Co	59	2	He	0.275	0.275	5.59	2307	0.01	2000	
Ni	60	2	He	1.915	1.915	3.13	4034	0.05	2000	
Cu	63	2	He	-0.028	-0.028	-97.19	1763	0.00	2000	
Zn	66	2	He	2.504	2.504	11.89	3067	0.08	2000	
Al	27	2	He	11.414	11.414	11.46	5385	0.21	2000	
B	11	1	No Gas	614.536	614.536	1.72	977986	0.06	2000	
Al	27	1	No Gas	12.595	12.595	3.57	160335	0.01	2000	
Si	28	1	No Gas	7848.944	7848.944	1.64	47603806	0.02	2000	>LDR
Ag	107	1	No Gas	0.005	0.005	40.24	157	0.00	2000	
Cd	111	1	No Gas	0.015	0.015	44.64	42	0.04	2000	
Sr	88	1	No Gas	1208.768	1208.768	1.81	28331936	0.00	2000	
Mo	95	1	No Gas	2.174	2.174	9.20	10906	0.02	2000	
Sn	118	1	No Gas	0.149	0.149	5.41	1817	0.01	2000	
Sb	121	1	No Gas	0.150	0.150	3.60	1720	0.01	2000	
Ba	137	1	No Gas	252.643	252.643	1.20	996599	0.03	2000	
Tl	205	1	No Gas	-0.004	-0.004	-31.70	100	0.00	2000	
Tl	203	1	No Gas	-0.003	-0.003	-87.55	37	-0.01	2000	
Pb	208	1	No Gas	0.031	0.031	15.01	1413	0.00	2000	
U	238	1	No Gas	0.236	0.236	2.19	5845	0.00	2000	
Ca	43	2	He	23202.669	23202.669	2.17	58786	39.47	200000	
Sb	121	2	He	0.136	0.136	7.66	773	0.02	2000	
Ti	47	2	He	1.203	1.203	16.42	287	0.42	2000	
Cu	63	1	No Gas	2.652	2.652	3.11	30030	0.01	2000	
Zn	66	1	No Gas	2.382	2.382	3.85	7642	0.03	2000	
Se	82	1	No Gas	1.958	1.958	31.25	304	0.64	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	617627	0.13	768064	80.41	70	120	
Ge	72	2	He	609429	0.52	709415	85.91	70	120	
Ge	72	1	No Gas	1965157	1.58	2282452	86.10	70	120	
In	115	1	No Gas	2027940	1.21	2434568	83.30	70	120	
Bi	209	1	No Gas	1605917	3.38	2062007	77.88	70	120	

Sample Report

Sample Table

Sample Name	HS23061712-08MS
Data File Name	175SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T18:09:17-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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
Li	7	1	No Gas	101.548	101.548	1.20	1344697	0.01	2000	
Be	9	1	No Gas	52.382	52.382	0.40	217682	0.02	2000	
V	51	2	He	50.187	50.187	1.76	379922	0.01	2000	
Cr	52	2	He	67.852	67.852	2.31	576598	0.01	2000	
Fe	56	2	He	5899.486	5899.486	2.33	41914538	0.01	200000	
Se	78	2	He	52.057	52.057	1.01	7600	0.68	2000	
As	75	2	He	51.490	51.490	0.98	68342	0.08	2000	
Ca	44	2	He	26028.621	26028.621	2.70	1481005	1.76	200000	
Na	23	2	He	170494.099	170494.099	1.52	223059003	0.08	200000	
Mg	24	2	He	22482.230	22482.230	1.98	17614436	0.13	200000	
K	39	2	He	6953.010	6953.010	2.01	8386554	0.08	200000	
Mn	55	2	He	609.422	609.422	2.76	3965581	0.02	2000	
Co	59	2	He	64.167	64.167	1.19	709501	0.01	2000	
Ni	60	2	He	1197.989	1197.989	1.56	3198307	0.04	2000	
Cu	63	2	He	49.713	49.713	1.83	333961	0.01	2000	
Zn	66	2	He	52.172	52.172	2.32	77967	0.07	2000	
Al	27	2	He	92.953	92.953	0.94	54186	0.17	2000	
B	11	1	No Gas	473.250	473.250	1.43	1164035	0.04	2000	
Al	27	1	No Gas	100.416	100.416	3.37	1655754	0.01	2000	
Si	28	1	No Gas	11036.677	11036.677	0.59	93388009	0.01	2000	>LDR
Ag	107	1	No Gas	49.347	49.347	1.21	840009	0.01	2000	
Cd	111	1	No Gas	51.590	51.590	1.69	174187	0.03	2000	
Sr	88	1	No Gas	529.125	529.125	1.30	17501072	0.00	2000	
Mo	95	1	No Gas	53.114	53.114	0.85	363174	0.01	2000	
Sn	118	1	No Gas	93.153	93.153	0.70	936111	0.01	2000	
Sb	121	1	No Gas	51.970	51.970	1.69	781769	0.01	2000	
Ba	137	1	No Gas	459.828	459.828	1.77	2559168	0.02	2000	
Tl	205	1	No Gas	49.389	49.389	1.50	1251846	0.00	2000	
Tl	203	1	No Gas	48.109	48.109	1.64	512763	0.01	2000	
Pb	208	1	No Gas	49.236	49.236	1.35	1842341	0.00	2000	
U	238	1	No Gas	94.226	94.226	1.58	3388660	0.00	2000	
Ca	43	2	He	25997.496	25997.496	2.83	89399	29.08	200000	
Sb	121	2	He	51.413	51.413	3.35	380617	0.01	2000	
Ti	47	2	He	136.022	136.022	1.98	41800	0.33	2000	
Cu	63	1	No Gas	52.435	52.435	1.50	713110	0.01	2000	
Zn	66	1	No Gas	52.396	52.396	0.73	205413	0.03	2000	
Se	82	1	No Gas	52.815	52.815	2.93	13385	0.39	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	942843	1.64	768064	122.76	70	120	ISTD Failed
Ge	72	2	He	827421	1.82	709415	116.63	70	120	
Ge	72	1	No Gas	2744838	0.94	2282452	120.26	70	120	ISTD Failed
In	115	1	No Gas	2861323	0.35	2434568	117.53	70	120	
Bi	209	1	No Gas	2344387	1.41	2062007	113.69	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	179_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T18:17:00-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
n	Fail
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	99.964	3.103	1308653	2.57	100	100.0	90	110	
Be	9	1	No Gas	98.513	0.850	404447	0.82	100	98.5	90	110	
V	51	2	He	83.099	31.991	420851	88.70	100	83.1	90	110	CCV Main CR1-2 Failed
Cr	52	2	He	144.273	54.533	472549	88.64	100	144.3	90	110	CCV Main CR1-2 Failed
Fe	56	2	He	8681.630	26.190	40278482	88.68	10000	86.8	90	110	CCV Main CR1-2 Failed
Se	78	2	He	609.697	145.142	8060	87.17	100	609.7	90	110	CCV Main CR1-2 Failed
As	75	2	He	118.911	31.949	73140	89.24	100	118.9	90	110	CCV Main CR1-2 Failed
Ca	44	2	He	87836.149	153.080	332775	86.64	10000	878.4	90	110	CCV Main CR1-2 Failed
Na	23	2	He	111559.603	157.547	7591972	85.43	10000	1115.6	90	110	CCV Main CR1-2 Failed
Mg	24	2	He	34834.915	122.755	4523819	87.93	10000	348.3	90	110	CCV Main CR1-2 Failed
K	39	2	He	69075.191	147.905	6894861	87.15	10000	690.8	90	110	CCV Main CR1-2 Failed
Mn	55	2	He	93.109	13.625	371198	88.79	100	93.1	90	110	
Co	59	2	He	80.013	41.568	623212	89.51	100	80.0	90	110	CCV Main CR1-2 Failed
Ni	60	2	He	92.050	16.810	153061	88.48	100	92.0	90	110	
Cu	63	2	He	105.454	13.027	370541	88.52	100	105.5	90	110	
Zn	66	2	He	66.786	87.022	84829	88.67	100	66.8	90	110	CCV Main CR1-2 Failed
Al	27	2	He	154.727	57.658	34088	88.22	100	154.7	90	110	CCV Main CR1-2 Failed
B	11	1	No Gas	464.832	0.794	1130574	0.76	500	93.0	90	110	
Al	27	1	No Gas	105.855	4.241	1687684	2.23	100	105.9	90	110	
Si	28	1	No Gas	522.416	2.967	4548322	0.73	5000	10.4	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	98.823	1.472	1699640	0.48	100	98.8	90	110	
Cd	111	1	No Gas	97.962	2.697	334152	0.87	100	98.0	90	110	
Sr	88	1	No Gas	100.786	2.675	3368662	0.81	100	100.8	90	110	
Mo	95	1	No Gas	97.366	2.552	672157	1.17	100	97.4	90	110	
Sn	118	1	No Gas	98.826	2.025	1003314	0.10	100	98.8	90	110	
Sb	121	1	No Gas	100.243	3.755	1458826	2.10	100	100.2	90	110	
Ba	137	1	No Gas	96.775	2.690	544326	1.48	100	96.8	90	110	
Tl	205	1	No Gas	98.951	0.909	2526620	2.34	100	99.0	90	110	
Tl	203	1	No Gas	97.749	0.794	1049475	1.63	100	97.7	90	110	
Pb	208	1	No Gas	97.643	1.828	3679430	1.51	100	97.6	90	110	
U	238	1	No Gas	98.627	1.079	3572527	0.92	100	98.6	90	110	
Ca	43	2	He	109353.330	157.342	19842	87.11	10000	1093.5	90	110	CCV Main CR1-2 Failed
Sb	121	2	He	75.521	53.450	415563	89.15	100	75.5	90	110	CCV Main CR1-2 Failed
Ti	47	2	He	229.104	96.609	17691	88.15	100	229.1	90	110	CCV Main CR1-2 Failed
Cu	63	1	No Gas	100.559	3.888	1317630	2.23	100	100.6	90	110	
Se	82	1	No Gas	100.916	3.145	24802	1.00	100	100.9	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	931510	0.40	768064	121.28	70	120	ISTD Failed
Ge	72	2	He	468638	88.10	709415	66.06	70	120	ISTD Failed
Ge	72	1	No Gas	2656789	2.39	2282452	116.40	70	120	
In	115	1	No Gas	2891664	1.94	2434568	118.78	70	120	
Bi	209	1	No Gas	2361510	1.78	2062007	114.52	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	180_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T18:19:04-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	-0.051	-299.9	62436	1.7	0.5	
Be	9	1	No Gas	0.011	2.5	63	4.6	0.5	
V	51	2	He	-0.072	-25.4	2979	3.9	2.5	
Cr	52	2	He	0.069	140.7	18383	4.6	2.5	
Fe	56	2	He	2.120	13.7	34104	5.4	100	
Se	78	2	He	-0.538	-17.0	241	5.6	2	
As	75	2	He	0.007	332.0	321	9.4	2.5	
Ca	44	2	He	-0.196	-200.5	1280	1.4	100	
Na	23	2	He	17.552	15.6	87265	3.4	100	
Mg	24	2	He	1.272	22.2	1510	13.6	100	
K	39	2	He	0.664	251.1	215348	0.8	100	
Mn	55	2	He	0.132	17.5	1770	7.8	2.5	
Co	59	2	He	0.004	65.9	130	20.4	2.5	
Ni	60	2	He	0.157	77.0	757	40.5	2.5	
Cu	63	2	He	-0.212	-9.2	1123	10.7	2	
Zn	66	2	He	1.499	28.7	2577	23.3	2.5	
Al	27	2	He	0.149	153.0	807	15.2	5	
B	11	1	No Gas	-13.123	-8.3	31213	5.0	0.5	
Al	27	1	No Gas	0.127	58.1	19411	5.6	5	
Si	28	1	No Gas	5.244	18.1	317130	1.9	10	
Ag	107	1	No Gas	0.006	33.0	233	15.1	2.5	
Cd	111	1	No Gas	0.000	2050.4	9	233.7	1	
Sr	88	1	No Gas	0.028	9.9	1914	2.9	2.5	
Mo	95	1	No Gas	0.091	47.0	1137	22.4	2.5	
Sn	118	1	No Gas	0.234	17.3	3334	8.2	5	
Sb	121	1	No Gas	0.210	0.2	3087	0.7	2.5	
Ba	137	1	No Gas	0.589	17.7	3394	12.9	2.5	
Tl	205	1	No Gas	0.599	35.7	15007	36.6	1	
Tl	203	1	No Gas	0.620	30.6	6512	31.5	1	
Pb	208	1	No Gas	0.058	31.7	2977	22.5	2.5	
U	238	1	No Gas	0.022	43.2	807	41.5	2.5	
Ca	43	2	He	4.621	228.5	57	62.0	100	
Sb	121	2	He	0.213	7.6	1560	6.9	2.5	
Ti	47	2	He	0.116	72.6	53	47.2	2.5	
Cu	63	1	No Gas	-0.275	-6.2	2344	9.8	2.5	
Se	82	1	No Gas	0.413	30.9	31	97.4	2	

QC ISTD Table

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

Continuing Calibration Blank (CCB) Report

Li	6	1	No Gas	940892	3.29	768064	122.50	70	120	ISTD Failed
Ge	72	2	He	798950	0.58	709415	112.62	70	120	
Ge	72	1	No Gas	2570922	0.73	2282452	112.64	70	120	
In	115	1	No Gas	2802263	3.51	2434568	115.10	70	120	
Bi	209	1	No Gas	2276192	3.10	2062007	110.39	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	182_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T18:24:39-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
n	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
Li	7	1	No Gas	97.848	4.878	1232533	2.56	100	97.8	90	110	
Be	9	1	No Gas	95.360	3.874	376313	1.28	100	95.4	90	110	
V	51	2	He	93.469	0.820	676009	0.27	100	93.5	90	110	
Cr	52	2	He	93.631	1.069	756880	1.29	100	93.6	90	110	
Fe	56	2	He	9468.719	2.221	64544181	1.32	10000	94.7	90	110	
Se	78	2	He	94.187	2.213	12941	1.32	100	94.2	90	110	
As	75	2	He	92.380	0.765	117415	1.42	100	92.4	90	110	
Ca	44	2	He	9720.910	0.298	531543	1.18	10000	97.2	90	110	
Na	23	2	He	9492.555	1.286	11978335	0.57	10000	94.9	90	110	
Mg	24	2	He	9581.234	2.307	7203843	1.71	10000	95.8	90	110	
K	39	2	He	9627.413	1.759	11061262	0.82	10000	96.3	90	110	
Mn	55	2	He	95.100	1.031	594702	0.43	100	95.1	90	110	
Co	59	2	He	91.237	0.919	967984	0.01	100	91.2	90	110	
Ni	60	2	He	94.899	1.250	243438	0.35	100	94.9	90	110	
Cu	63	2	He	93.291	1.746	599221	1.00	100	93.3	90	110	
Zn	66	2	He	93.922	1.492	134354	0.70	100	93.9	90	110	
Al	27	2	He	97.309	2.504	54390	1.66	100	97.3	90	110	
B	11	1	No Gas	455.025	3.867	1065317	2.83	500	91.0	90	110	
Al	27	1	No Gas	106.705	1.567	1609256	1.40	100	106.7	90	110	
Si	28	1	No Gas	528.272	0.709	4347373	1.23	5000	10.6	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	97.636	1.681	1548974	0.85	100	97.6	90	110	
Cd	111	1	No Gas	96.008	2.119	302129	1.55	100	96.0	90	110	
Sr	88	1	No Gas	100.733	3.781	3105181	1.61	100	100.7	90	110	
Mo	95	1	No Gas	96.966	2.242	617497	0.92	100	97.0	90	110	
Sn	118	1	No Gas	96.692	2.201	905547	1.23	100	96.7	90	110	
Sb	121	1	No Gas	97.155	2.195	1337354	1.77	100	97.2	90	110	
Ba	137	1	No Gas	94.656	2.747	491082	0.34	100	94.7	90	110	
Tl	205	1	No Gas	94.775	1.542	2313361	0.49	100	94.8	90	110	
Tl	203	1	No Gas	93.179	1.293	956426	0.27	100	93.2	90	110	
Pb	208	1	No Gas	94.516	1.152	3405446	0.38	100	94.5	90	110	
U	238	1	No Gas	95.817	2.716	3318086	1.64	100	95.8	90	110	
Ca	43	2	He	9486.389	0.851	31336	1.59	10000	94.9	90	110	
Sb	121	2	He	95.060	1.396	675409	0.79	100	95.1	90	110	
Ti	47	2	He	96.804	2.077	28553	1.89	100	96.8	90	110	
Cu	63	1	No Gas	98.645	0.831	1222786	0.95	100	98.6	90	110	
Se	82	1	No Gas	96.115	1.313	22341	1.24	100	96.1	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	895977	2.63	768064	116.65	70	120	
Ge	72	2	He	793896	0.91	709415	111.91	70	120	
Ge	72	1	No Gas	2511899	0.87	2282452	110.05	70	120	
In	115	1	No Gas	2667612	2.54	2434568	109.57	70	120	
Bi	209	1	No Gas	2257823	1.09	2062007	109.50	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	183_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T18:26:42-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
n	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
Li	7	1	No Gas	98.041	5.712	1239426	1.68	100	98.0	90	110	
Be	9	1	No Gas	95.589	3.488	378772	0.41	100	95.6	90	110	
V	51	2	He	94.202	0.887	677061	1.42	100	94.2	90	110	
Cr	52	2	He	95.100	1.376	763676	1.63	100	95.1	90	110	
Fe	56	2	He	9558.840	2.067	64752892	1.39	10000	95.6	90	110	
Se	78	2	He	94.961	0.765	12964	0.21	100	95.0	90	110	
As	75	2	He	94.172	0.976	118929	0.22	100	94.2	90	110	
Ca	44	2	He	9795.530	1.248	532248	1.34	10000	98.0	90	110	
Na	23	2	He	9486.701	1.226	11896271	0.67	10000	94.9	90	110	
Mg	24	2	He	9725.778	0.330	7267530	0.82	10000	97.3	90	110	
K	39	2	He	9586.907	0.663	10947481	0.23	10000	95.9	90	110	
Mn	55	2	He	96.071	0.817	597022	0.48	100	96.1	90	110	
Co	59	2	He	93.122	0.796	981861	1.13	100	93.1	90	110	
Ni	60	2	He	95.413	1.531	243225	0.91	100	95.4	90	110	
Cu	63	2	He	93.956	1.787	599714	1.27	100	94.0	90	110	
Zn	66	2	He	95.540	1.684	135809	1.18	100	95.5	90	110	
Al	27	2	He	97.840	0.590	54350	1.29	100	97.8	90	110	
B	11	1	No Gas	470.535	3.193	1104070	1.77	500	94.1	90	110	
Al	27	1	No Gas	102.803	3.797	1587945	1.01	100	102.8	90	110	
Si	28	1	No Gas	513.124	2.518	4332537	1.98	5000	10.3	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	97.389	2.101	1591607	2.48	100	97.4	90	110	
Cd	111	1	No Gas	95.251	0.823	308765	0.99	100	95.3	90	110	
Sr	88	1	No Gas	98.820	0.453	3138915	0.75	100	98.8	90	110	
Mo	95	1	No Gas	94.587	0.249	620513	0.18	100	94.6	90	110	
Sn	118	1	No Gas	95.980	0.597	925953	0.29	100	96.0	90	110	
Sb	121	1	No Gas	96.916	3.906	1365821	0.99	100	96.9	90	110	
Ba	137	1	No Gas	94.451	0.945	504832	0.63	100	94.5	90	110	
Tl	205	1	No Gas	97.218	0.352	2382278	0.31	100	97.2	90	110	
Tl	203	1	No Gas	95.579	0.367	984878	0.19	100	95.6	90	110	
Pb	208	1	No Gas	94.956	0.755	3434629	1.01	100	95.0	90	110	
U	238	1	No Gas	96.689	1.495	3361759	1.70	100	96.7	90	110	
Ca	43	2	He	9685.058	0.399	31790	0.92	10000	96.9	90	110	
Sb	121	2	He	94.709	0.608	668740	0.39	100	94.7	90	110	
Ti	47	2	He	96.242	0.821	28213	1.54	100	96.2	90	110	
Cu	63	1	No Gas	97.214	3.154	1233936	0.73	100	97.2	90	110	
Se	82	1	No Gas	95.620	2.353	22762	1.62	100	95.6	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	899844	3.76	768064	117.16	70	120	
Ge	72	2	He	788927	0.75	709415	111.21	70	120	
Ge	72	1	No Gas	2573434	2.95	2282452	112.75	70	120	
In	115	1	No Gas	2747070	0.42	2434568	112.84	70	120	
Bi	209	1	No Gas	2266411	0.28	2062007	109.91	70	120	

Sample Report

Sample Table

Sample Name	LCS-197198
Data File Name	184SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T18:28:48-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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
Li	7	1	No Gas	90.045	90.045	7.15	1151368	0.01	2000	
Be	9	1	No Gas	48.888	48.888	4.30	195111	0.03	2000	
V	51	2	He	46.600	46.600	2.11	352801	0.01	2000	
Cr	52	2	He	46.653	46.653	2.64	401960	0.01	2000	
Fe	56	2	He	4875.771	4875.771	2.07	34625887	0.01	200000	
Se	78	2	He	48.757	48.757	1.85	7134	0.68	2000	
As	75	2	He	47.122	47.122	1.43	62529	0.08	2000	
Ca	44	2	He	5034.198	5034.198	1.58	287310	1.75	200000	
Na	23	2	He	4934.764	4934.764	0.55	6518298	0.08	200000	
Mg	24	2	He	4977.558	4977.558	2.00	3897933	0.13	200000	
K	39	2	He	4962.080	4962.080	3.28	6044456	0.08	200000	
Mn	55	2	He	47.979	47.979	2.42	312925	0.02	2000	
Co	59	2	He	46.254	46.254	1.78	511120	0.01	2000	
Ni	60	2	He	47.274	47.274	1.75	126480	0.04	2000	
Cu	63	2	He	47.292	47.292	2.54	317613	0.01	2000	
Zn	66	2	He	49.092	49.092	1.52	73351	0.07	2000	
Al	27	2	He	94.935	94.935	2.70	55280	0.17	2000	
B	11	1	No Gas	346.686	346.686	4.24	834988	0.04	2000	
Al	27	1	No Gas	100.301	100.301	3.69	1595944	0.01	2000	
Si	28	1	No Gas	459.823	459.823	4.53	4025731	0.01	2000	
Ag	107	1	No Gas	48.417	48.417	1.63	813721	0.01	2000	
Cd	111	1	No Gas	48.410	48.410	0.53	161399	0.03	2000	
Sr	88	1	No Gas	90.327	90.327	1.85	2950498	0.00	2000	
Mo	95	1	No Gas	47.567	47.567	1.89	321167	0.01	2000	
Sn	118	1	No Gas	86.183	86.183	1.57	855182	0.01	2000	
Sb	121	1	No Gas	48.902	48.902	3.11	709942	0.01	2000	
Ba	137	1	No Gas	47.166	47.166	0.79	259369	0.02	2000	
Tl	205	1	No Gas	44.740	44.740	2.04	1129077	0.00	2000	
Tl	203	1	No Gas	44.731	44.731	1.37	474716	0.01	2000	
Pb	208	1	No Gas	47.397	47.397	2.03	1765820	0.00	2000	
U	238	1	No Gas	68.939	68.939	2.17	2468184	0.00	2000	
Ca	43	2	He	4960.518	4960.518	2.26	17084	29.04	200000	
Sb	121	2	He	47.979	47.979	2.76	355013	0.01	2000	
Ti	47	2	He	125.202	125.202	1.67	38454	0.33	2000	
Cu	63	1	No Gas	49.745	49.745	3.36	653134	0.01	2000	
Zn	66	1	No Gas	49.897	49.897	1.88	188881	0.03	2000	
Se	82	1	No Gas	49.869	49.869	2.77	12190	0.41	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	906355	3.43	768064	118.01	70	120	
Ge	72	2	He	826896	1.57	709415	116.56	70	120	
Ge	72	1	No Gas	2650413	3.36	2282452	116.12	70	120	
In	115	1	No Gas	2825364	1.38	2434568	116.05	70	120	

Sample Report

Bi	209	1	No Gas	2334234	1.28	2062007	113.20	70	120	

Sample Report

Sample Table

Sample Name	HS23061712-08
Data File Name	186SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T18:32:49-05:00
Sample Type	Sample
Dilution	20
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	0.669	13.383	21.93	70762	0.00	2000	
Be	9	1	No Gas	0.003	0.066	127.29	32	0.01	2000	
V	51	2	He	-0.056	-1.119	-51.05	3146	0.00	2000	
Cr	52	2	He	1.150	22.995	5.29	27381	0.00	2000	
Fe	56	2	He	46.943	938.860	1.43	346697	0.01	200000	
Se	78	2	He	-0.418	-8.363	-22.30	261	-0.16	2000	
As	75	2	He	0.039	0.777	141.91	367	0.01	2000	
Ca	44	2	He	1184.816	23696.330	0.25	67335	1.76	200000	
Na	23	2	He	9520.304	190406.084	0.47	12273664	0.08	200000	
Mg	24	2	He	1027.707	20554.145	0.35	789971	0.13	200000	
K	39	2	He	98.643	1972.860	0.70	331407	0.03	200000	
Mn	55	2	He	33.585	671.703	0.60	215186	0.02	2000	
Co	59	2	He	0.900	17.995	0.61	9844	0.01	2000	
Ni	60	2	He	68.614	1372.284	2.03	179910	0.04	2000	
Cu	63	2	He	-0.172	-3.449	-16.73	1400	-0.01	2000	
Zn	66	2	He	0.484	9.682	12.39	1140	0.04	2000	
Al	27	2	He	0.452	9.038	15.27	990	0.05	2000	
B	11	1	No Gas	-7.121	-142.414	-4.30	44733	-0.02	2000	
Al	27	1	No Gas	0.870	17.392	6.83	31570	0.00	2000	
Si	28	1	No Gas	585.432	11708.640	1.53	5030368	0.01	2000	
Ag	107	1	No Gas	0.005	0.092	52.48	213	0.00	2000	
Cd	111	1	No Gas	0.008	0.165	75.77	36	0.02	2000	
Sr	88	1	No Gas	24.843	496.870	2.43	827534	0.00	2000	
Mo	95	1	No Gas	0.167	3.331	20.21	1690	0.01	2000	
Sn	118	1	No Gas	0.320	6.395	11.97	4294	0.01	2000	
Sb	121	1	No Gas	0.194	3.872	10.13	2937	0.01	2000	
Ba	137	1	No Gas	22.530	450.599	0.62	126358	0.02	2000	
Tl	205	1	No Gas	0.550	10.992	26.98	13932	0.00	2000	
Tl	203	1	No Gas	0.548	10.967	30.05	5835	0.01	2000	
Pb	208	1	No Gas	-0.001	-0.013	-402.74	867	0.00	2000	
U	238	1	No Gas	0.066	1.325	22.89	2390	0.00	2000	
Ca	43	2	He	1173.955	23479.095	6.83	3997	29.37	200000	
Sb	121	2	He	0.162	3.230	9.53	1210	0.01	2000	
Ti	47	2	He	0.036	0.724	91.66	30	0.12	2000	
Cu	63	1	No Gas	-0.152	-3.035	-19.69	3994	0.00	2000	
Zn	66	1	No Gas	0.403	8.053	10.95	2854	0.01	2000	
Se	82	1	No Gas	0.630	12.601	26.37	85	0.74	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	930846	0.98	768064	121.19	70	120	ISTD Failed
Ge	72	2	He	811046	0.70	709415	114.33	70	120	
Ge	72	1	No Gas	2639003	1.09	2282452	115.62	70	120	
In	115	1	No Gas	2879261	2.64	2434568	118.27	70	120	

Sample Report

Bi	209	1	No Gas	2300285	2.42	2062007	111.56	70	120	

Sample Report

Sample Table

Sample Name	HS23061712-08SD
Data File Name	187SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T18:34:47-05:00
Sample Type	Sample
Dilution	100
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	-0.008	-0.772	-981.30	63531	0.00	2000	
Be	9	1	No Gas	0.004	0.397	108.48	35	0.01	2000	
V	51	2	He	-0.055	-5.454	-23.92	3184	0.00	2000	
Cr	52	2	He	0.276	27.576	63.93	20492	0.00	2000	
Fe	56	2	He	9.617	961.732	2.24	87570	0.01	200000	
Se	78	2	He	-0.647	-64.746	-9.60	232	-0.28	2000	
As	75	2	He	0.020	1.989	164.66	346	0.01	2000	
Ca	44	2	He	240.413	24041.284	5.74	14828	1.62	200000	
Na	23	2	He	1971.220	197121.982	1.32	2615876	0.08	200000	
Mg	24	2	He	215.721	21572.082	2.25	167666	0.13	200000	
K	39	2	He	9.476	947.631	34.71	230705	0.00	200000	
Mn	55	2	He	6.753	675.323	2.67	44403	0.02	2000	
Co	59	2	He	0.183	18.284	5.34	2090	0.01	2000	
Ni	60	2	He	13.849	1384.889	0.69	36920	0.04	2000	
Cu	63	2	He	-0.261	-26.108	-8.58	827	-0.03	2000	
Zn	66	2	He	0.296	29.571	36.63	873	0.03	2000	
Al	27	2	He	0.485	48.509	23.55	1017	0.05	2000	
B	11	1	No Gas	-13.241	-1324.116	-2.02	31246	-0.04	2000	
Al	27	1	No Gas	0.718	71.766	6.21	28974	0.00	2000	
Si	28	1	No Gas	123.674	12367.369	2.43	1276071	0.01	2000	
Ag	107	1	No Gas	-0.003	-0.255	-68.21	90	0.00	2000	
Cd	111	1	No Gas	-0.002	-0.157	-404.87	2	-0.07	2000	
Sr	88	1	No Gas	5.129	512.910	0.94	169934	0.00	2000	
Mo	95	1	No Gas	0.014	1.400	180.71	637	0.00	2000	
Sn	118	1	No Gas	0.147	14.727	50.75	2528	0.01	2000	
Sb	121	1	No Gas	0.072	7.246	8.30	1177	0.01	2000	
Ba	137	1	No Gas	4.639	463.913	0.43	25906	0.02	2000	
Tl	205	1	No Gas	0.064	6.357	15.10	1834	0.00	2000	
Tl	203	1	No Gas	0.067	6.709	10.96	797	0.01	2000	
Pb	208	1	No Gas	-0.006	-0.639	-125.05	660	0.00	2000	
U	238	1	No Gas	0.012	1.184	17.01	470	0.00	2000	
Ca	43	2	He	250.635	25063.544	11.47	893	28.05	200000	
Sb	121	2	He	0.074	7.390	11.90	580	0.01	2000	
Ti	47	2	He	-0.008	-0.829	-605.73	17	-0.05	2000	
Cu	63	1	No Gas	-0.308	-30.751	-3.84	1964	-0.02	2000	
Zn	66	1	No Gas	0.273	27.293	19.28	2350	0.01	2000	
Se	82	1	No Gas	-0.015	-1.536	-1763.41	-72	0.02	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	948672	0.94	768064	123.51	70	120	ISTD Failed
Ge	72	2	He	818085	1.48	709415	115.32	70	120	
Ge	72	1	No Gas	2618805	0.92	2282452	114.74	70	120	
In	115	1	No Gas	2849025	0.74	2434568	117.02	70	120	

Sample Report

Bi	209	1	No Gas	2313737	2.34	2062007	112.21	70	120	

Sample Report

Sample Table

Sample Name	HS23061712-08PDS
Data File Name	188SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T18:36:47-05:00
Sample Type	Sample
Dilution	20
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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
Li	7	1	No Gas	0.644	12.882	15.05	69092	0.00	2000	
Be	9	1	No Gas	89.507	1790.142	1.89	360056	0.02	2000	
V	51	2	He	88.855	1777.102	1.68	656680	0.01	2000	
Cr	52	2	He	88.693	1773.854	1.72	733354	0.01	2000	
Fe	56	2	He	9284.705	185694.106	0.75	64666281	0.01	200000	
Se	78	2	He	89.707	1794.141	1.02	12608	0.71	2000	
As	75	2	He	89.218	1784.359	1.50	115847	0.08	2000	
Ca	44	2	He	10459.918	209198.369	1.33	584174	1.79	200000	
Na	23	2	He	18890.973	377819.456	1.20	24287969	0.08	200000	
Mg	24	2	He	10352.130	207042.599	1.04	7952088	0.13	200000	
K	39	2	He	9734.210	194684.203	1.25	11423870	0.09	200000	
Mn	55	2	He	122.329	2446.589	0.92	781251	0.02	2000	
Co	59	2	He	88.777	1775.539	0.90	962259	0.01	2000	
Ni	60	2	He	156.328	3126.562	1.07	409466	0.04	2000	
Cu	63	2	He	88.383	1767.651	2.05	580092	0.02	2000	
Zn	66	2	He	90.666	1813.329	1.45	132522	0.07	2000	
Al	27	2	He	90.667	1813.335	0.22	51830	0.17	2000	
B	11	1	No Gas	-13.458	-269.151	-2.91	29569	-0.05	2000	
Al	27	1	No Gas	96.354	1927.088	4.05	1500912	0.01	2000	
Si	28	1	No Gas	592.101	11842.018	3.89	4992505	0.01	2000	
Ag	107	1	No Gas	94.363	1887.250	1.52	1545548	0.01	2000	
Cd	111	1	No Gas	90.401	1808.013	2.21	293703	0.03	2000	
Sr	88	1	No Gas	25.702	514.047	0.73	819052	0.00	2000	
Mo	95	1	No Gas	92.677	1853.549	0.90	609442	0.02	2000	
Sn	118	1	No Gas	0.065	1.302	17.68	1653	0.00	2000	
Sb	121	1	No Gas	89.635	1792.708	2.07	1273459	0.01	2000	
Ba	137	1	No Gas	113.234	2264.688	0.44	606649	0.02	2000	
Tl	205	1	No Gas	98.258	1965.154	2.50	2411631	0.00	2000	
Tl	203	1	No Gas	97.267	1945.338	2.52	1003930	0.01	2000	
Pb	208	1	No Gas	89.928	1798.559	2.45	3257933	0.00	2000	
U	238	1	No Gas	0.032	0.637	8.58	1157	0.00	2000	
Ca	43	2	He	10156.341	203126.828	0.56	34270	29.64	200000	
Sb	121	2	He	87.276	1745.521	0.97	633529	0.01	2000	
Ti	47	2	He	92.935	1858.695	1.55	28009	0.33	2000	
Cu	63	1	No Gas	93.161	1863.223	2.15	1192151	0.01	2000	
Zn	66	1	No Gas	92.210	1844.193	1.74	340365	0.03	2000	
Se	82	1	No Gas	91.256	1825.114	1.26	21886	0.42	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	912987	2.88	768064	118.87	70	120	
Ge	72	2	He	811057	0.81	709415	114.33	70	120	
Ge	72	1	No Gas	2592721	2.73	2282452	113.59	70	120	
In	115	1	No Gas	2753543	1.17	2434568	113.10	70	120	

Sample Report

Bi	209	1	No Gas	2270376	1.02	2062007	110.11	70	120	

Sample Report

Sample Table

Sample Name	HS23061712-06
Data File Name	192SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T18:44:45-05:00
Sample Type	Sample
Dilution	20
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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
Li	7	1	No Gas	15.323	306.464	2.83	248553	0.01	2000	
Be	9	1	No Gas	0.001	0.020	259.56	22	0.00	2000	
V	51	2	He	-0.059	-1.172	-8.15	3116	0.00	2000	
Cr	52	2	He	0.282	5.639	1.62	20309	0.00	2000	
Fe	56	2	He	35.998	719.965	2.03	269552	0.01	200000	
Se	78	2	He	-0.417	-8.345	-41.23	261	-0.16	2000	
As	75	2	He	0.101	2.018	13.61	446	0.02	2000	
Ca	44	2	He	1023.975	20479.509	0.85	58166	1.76	200000	
Na	23	2	He	19162.188	383243.751	0.65	24551035	0.08	200000	
Mg	24	2	He	598.436	11968.725	0.35	458633	0.13	200000	
K	39	2	He	3380.201	67604.011	1.10	4095091	0.08	200000	
Mn	55	2	He	2.192	43.850	2.30	14885	0.01	2000	
Co	59	2	He	0.014	0.275	35.34	240	0.01	2000	
Ni	60	2	He	0.037	0.740	13.98	453	0.01	2000	
Cu	63	2	He	-0.254	-5.073	-7.60	867	-0.03	2000	
Zn	66	2	He	0.304	6.071	15.90	873	0.03	2000	
Al	27	2	He	0.791	15.818	32.18	1177	0.07	2000	
B	11	1	No Gas	9.608	192.170	1.62	81632	0.01	2000	
Al	27	1	No Gas	1.258	25.152	5.13	37240	0.00	2000	
Si	28	1	No Gas	360.646	7212.930	1.89	3172457	0.01	2000	
Ag	107	1	No Gas	-0.003	-0.067	-53.43	73	0.00	2000	
Cd	111	1	No Gas	0.004	0.075	4.08	20	0.02	2000	
Sr	88	1	No Gas	57.527	1150.533	2.33	1837893	0.00	2000	
Mo	95	1	No Gas	0.075	1.500	6.45	1020	0.01	2000	
Sn	118	1	No Gas	0.019	0.384	22.87	1213	0.00	2000	
Sb	121	1	No Gas	0.064	1.283	12.70	1053	0.01	2000	
Ba	137	1	No Gas	11.684	233.680	1.86	62973	0.02	2000	
Tl	205	1	No Gas	0.002	0.043	13.37	293	0.00	2000	
Tl	203	1	No Gas	0.000	-0.009	-594.32	83	0.00	2000	
Pb	208	1	No Gas	-0.014	-0.275	-12.94	380	0.00	2000	
U	238	1	No Gas	0.010	0.209	27.02	410	0.00	2000	
Ca	43	2	He	1076.638	21532.755	7.59	3657	29.44	200000	
Sb	121	2	He	0.063	1.259	17.73	493	0.01	2000	
Ti	47	2	He	0.003	0.061	2167.83	20	0.02	2000	
Cu	63	1	No Gas	-0.205	-4.100	-1.66	3270	-0.01	2000	
Zn	66	1	No Gas	0.263	5.251	2.98	2304	0.01	2000	
Se	82	1	No Gas	0.293	5.855	214.66	1	21.63	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	913392	1.33	768064	118.92	70	120	
Ge	72	2	He	808207	0.61	709415	113.93	70	120	
Ge	72	1	No Gas	2610217	1.21	2282452	114.36	70	120	
In	115	1	No Gas	2763052	1.44	2434568	113.49	70	120	

Sample Report

Bi	209	1	No Gas	2261122	2.30	2062007	109.66	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	193_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T18:46:41-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
n	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
Li	7	1	No Gas	101.236	2.249	1220354	1.09	100	101.2	90	110	
Be	9	1	No Gas	98.245	2.244	371585	0.40	100	98.2	90	110	
V	51	2	He	94.518	1.128	684886	1.04	100	94.5	90	110	
Cr	52	2	He	94.781	0.870	767418	0.79	100	94.8	90	110	
Fe	56	2	He	9645.921	1.942	65884524	1.79	10000	96.5	90	110	
Se	78	2	He	95.087	2.461	13088	2.50	100	95.1	90	110	
As	75	2	He	94.220	0.865	119972	0.76	100	94.2	90	110	
Ca	44	2	He	9885.781	0.375	541558	0.38	10000	98.9	90	110	
Na	23	2	He	9566.744	0.747	12095232	0.64	10000	95.7	90	110	
Mg	24	2	He	9705.563	2.153	7311841	2.00	10000	97.1	90	110	
K	39	2	He	9625.947	2.674	11081842	2.63	10000	96.3	90	110	
Mn	55	2	He	97.002	0.615	607764	0.52	100	97.0	90	110	
Co	59	2	He	93.674	1.142	995778	0.99	100	93.7	90	110	
Ni	60	2	He	95.074	1.527	244368	1.49	100	95.1	90	110	
Cu	63	2	He	94.182	1.498	606125	1.37	100	94.2	90	110	
Zn	66	2	He	96.421	2.827	138189	2.67	100	96.4	90	110	
Al	27	2	He	98.052	1.149	54912	1.22	100	98.1	90	110	
B	11	1	No Gas	462.445	2.451	1036765	2.93	500	92.5	90	110	
Al	27	1	No Gas	104.601	2.161	1596906	2.20	100	104.6	90	110	
Si	28	1	No Gas	513.064	2.201	4280919	2.27	5000	10.3	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	96.816	1.023	1554830	1.95	100	96.8	90	110	
Cd	111	1	No Gas	95.629	0.263	304618	1.27	100	95.6	90	110	
Sr	88	1	No Gas	99.832	1.578	3115665	0.12	100	99.8	90	110	
Mo	95	1	No Gas	96.026	0.476	619039	1.26	100	96.0	90	110	
Sn	118	1	No Gas	97.049	1.208	919958	0.38	100	97.0	90	110	
Sb	121	1	No Gas	97.688	2.480	1360971	2.46	100	97.7	90	110	
Ba	137	1	No Gas	96.256	0.167	505583	1.34	100	96.3	90	110	
Tl	205	1	No Gas	97.186	2.054	2334663	1.80	100	97.2	90	110	
Tl	203	1	No Gas	96.056	1.798	970305	1.22	100	96.1	90	110	
Pb	208	1	No Gas	96.017	1.589	3404642	1.17	100	96.0	90	110	
U	238	1	No Gas	96.790	1.161	3299002	0.32	100	96.8	90	110	
Ca	43	2	He	9554.668	1.426	31620	1.28	10000	95.5	90	110	
Sb	121	2	He	95.655	1.107	680973	0.96	100	95.7	90	110	
Ti	47	2	He	96.176	2.802	28423	2.72	100	96.2	90	110	
Cu	63	1	No Gas	97.201	0.774	1219478	0.67	100	97.2	90	110	
Se	82	1	No Gas	97.846	1.072	23019	1.28	100	97.8	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	858405	1.99	768064	111.76	70	120	
Ge	72	2	He	795408	0.16	709415	112.12	70	120	
Ge	72	1	No Gas	2542106	0.21	2282452	111.38	70	120	
In	115	1	No Gas	2699548	1.50	2434568	110.88	70	120	
Bi	209	1	No Gas	2222065	1.45	2062007	107.76	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	194_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T18:48:35-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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
Li	7	1	No Gas	0.010	1182.3	60667	2.7	0.5	
Be	9	1	No Gas	0.009	75.5	53	51.6	0.5	
V	51	2	He	-0.107	-4.7	2781	0.8	2.5	
Cr	52	2	He	0.074	104.5	18790	2.8	2.5	
Fe	56	2	He	0.663	16.1	24596	2.5	100	
Se	78	2	He	-0.616	-21.1	235	6.8	2	
As	75	2	He	0.017	119.3	340	8.4	2.5	
Ca	44	2	He	-3.806	-33.2	1103	5.8	100	
Na	23	2	He	9.446	8.6	78584	1.6	100	
Mg	24	2	He	0.541	14.8	977	5.9	100	
K	39	2	He	-9.124	-9.6	208350	1.3	100	
Mn	55	2	He	0.071	7.6	1413	1.6	2.5	
Co	59	2	He	0.001	153.4	107	21.7	2.5	
Ni	60	2	He	0.030	138.8	440	25.8	2.5	
Cu	63	2	He	-0.259	-9.7	840	20.3	2	
Zn	66	2	He	0.388	12.2	1003	6.1	2.5	
Al	27	2	He	-0.221	-39.2	613	7.5	5	
B	11	1	No Gas	-12.242	-4.6	31953	3.2	0.5	
Al	27	1	No Gas	-0.018	-45.0	17451	1.0	5	
Si	28	1	No Gas	-3.909	-8.3	248348	0.6	10	
Ag	107	1	No Gas	0.009	87.9	277	45.2	2.5	
Cd	111	1	No Gas	-0.001	-491.0	5	234.9	1	
Sr	88	1	No Gas	0.009	26.9	1320	5.3	2.5	
Mo	95	1	No Gas	0.064	31.8	963	13.1	2.5	
Sn	118	1	No Gas	0.214	20.6	3150	12.4	5	
Sb	121	1	No Gas	0.138	11.9	2100	9.9	2.5	
Ba	137	1	No Gas	0.040	7.3	413	5.0	2.5	
Tl	205	1	No Gas	0.805	33.4	19847	32.6	1	
Tl	203	1	No Gas	0.797	34.7	8250	34.0	1	
Pb	208	1	No Gas	0.000	5892.3	877	7.4	2.5	
U	238	1	No Gas	0.027	37.9	973	35.7	2.5	
Ca	43	2	He	1.328	557.4	47	53.9	100	
Sb	121	2	He	0.109	16.7	830	15.8	2.5	
Ti	47	2	He	0.003	1273.3	20	50.0	2.5	
Cu	63	1	No Gas	-0.314	-2.8	1874	5.7	2.5	
Se	82	1	No Gas	0.470	74.2	45	188.2	2	

QC ISTD Table

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

Continuing Calibration Blank (CCB) Report

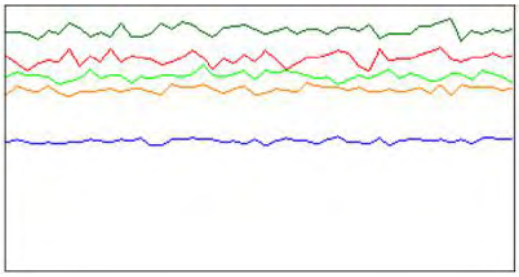
Li	6	1	No Gas	902603	0.86	768064	117.52	70	120	
Ge	72	2	He	814965	0.82	709415	114.88	70	120	
Ge	72	1	No Gas	2607955	1.23	2282452	114.26	70	120	
In	115	1	No Gas	2813228	1.31	2434568	115.55	70	120	
Bi	209	1	No Gas	2256057	1.27	2062007	109.41	70	120	

Tune Check Report

Operator Name	ALSHS.NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq. Date-Time	7/7/2023 9:57:41 AM
Report Comment	---
Instrument Name	G8421A SG18523544

[No Gas]

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	4020	40200.90		
24	20000	14752	147517.71		
59	50000	24578	245775.10		
115	50000	34332	343319.69		
208	20000	18206	182056.63		

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

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	2.812	5.000	
24	2.039	5.000	
59	1.762	5.000	
115	1.755	5.000	
208	2.104	5.000	

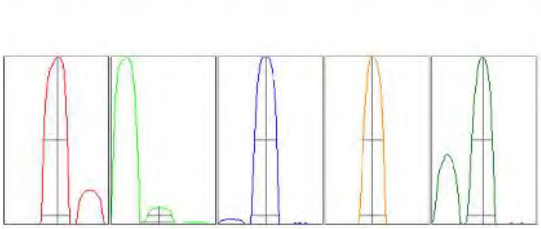
Mass	Background	Background (Required)	Background (Flag)
9	2.500		
24	1.200		
59	1.200		
115	2.100		
208	2.000		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.026 %
Doubly Charged	70 / 140 0.821 %

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	4138.69	9.05	8.90 - 9.10	
24	14548.82	23.90	23.90 - 24.10	
59	24827.64	58.90	58.90 - 59.10	
115	34958.64	114.90	114.90 - 115.10	
208	18199.50	208.00	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.67	0.790		
24	0.68	0.956		
59	0.64	0.819		
115	0.57	0.769		
208	0.60	0.782		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.48 L/min	Dilution Gas	0.57 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.8 V	Deflect	15.8 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-90 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	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	134	Axis Gain	1.0005	QP Bias	-3.0 V
Mass Offset	124	Axis Offset	0.06		

Hardware Settings

Torch

Torch H	0.8 mm	Torch V	-0.8 mm

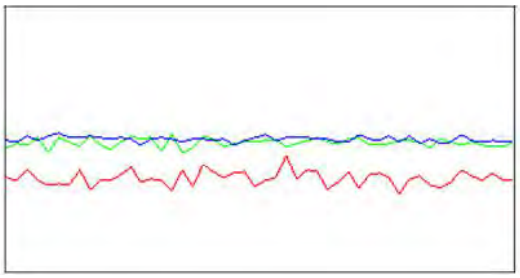
EM

Discriminator	4.5 mV	Analog HV	3004 V	Pulse HV	1633 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	500	177	1765.31		
24	2000	977	9773.80		
59	20000	10040	100398.78		

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

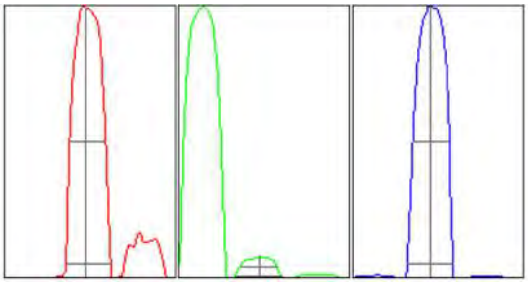
Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	8.032	5.000	Fail
24	3.335	5.000	
59	1.998	5.000	

Mass	Background	Background (Required)	Background (Flag)
9	0.500		
24	0.400		
59	0.200		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.785 %
Doubly Charged	70 / 140 0.958 %

Resolution/Axis



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

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	182.52	8.95	8.90 - 9.10	
24	1025.42	23.95	23.90 - 24.10	
59	10152.13	58.90	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.65	0.787		
24	0.67	0.829		

Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.64	0.818		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.48 L/min	Dilution Gas	0.57 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.4 V	Deflect	0.9 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-90 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	134	Axis Gain	1.0005	QP Bias	-15.0 V
Mass Offset	124	Axis Offset	0.06		

Hardware Settings

Torch

Torch H	0.8 mm	Torch V	-0.8 mm		

EM

Discriminator	4.5 mV	Analog HV	3004 V	Pulse HV	1633 V

HS23061712-E2300610 Perchlorate Report IV

ALS WO# HS23061712

June 30, 2023 Service Request No:E2300610

James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099

Laboratory Results for: HS23061712

Dear James,

Enclosed are the results of the sample(s) submitted to our laboratory June 26, 2023
For your reference, these analyses have been assigned our service request number **E2300610.**

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 2188. You may also contact me via email at James.Guin@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

James Guin

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

ALS Environmental

Client:	ALS Environmental - US	**Service Request No.:**	E2300610
Project:	HS23061712	**Date Received:**	06/26/23
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

Eight samples were received for analysis at ALS Environmental in Houston on 06/26/23.

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

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2300312: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in addition to MS/MSD for this extraction batch.

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:**E2300610
Project: HS23061712

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2300610-001	1824DPTMW05_062223	6/22/2023	1030
E2300610-002	18CPTMW10SW_062223	6/22/2023	1335
E2300610-003	18CPTMW10DW_062223	6/22/2023	1540
E2300610-004	18CPTMW10DW_062223_a	6/22/2023	1540
E2300610-005	18CPTMW01SW_062223	6/22/2023	1140
E2300610-006	18CPTMW01DW_062223	6/22/2023	1020
E2300610-007	MW2_062223	6/22/2023	0910
E2300610-008	MW1_062223	6/22/2023	1250

Service Request Summary

Folder #: **E2300610**
Client Name: ALS Environmental - US
Project Name: HS23061712
Project Number:

Report To: James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number:
E-mail: james.guin@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 06/26/23
Internal Due Date: 7/11/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23061712
EDD: BASIC_WQC_CASNo_LOD

10 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2300610-001	1824DPTMW05_062223	Water	06/22/23 1030	**IV**
E2300610-002	18CPTMW10SW_062223	Water	06/22/23 1335	**IV**
E2300610-003	18CPTMW10DW_062223	Water	06/22/23 1540	**IV**
E2300610-004	18CPTMW10DW_062223_a	Water	06/22/23 1540	**IV**
E2300610-005	18CPTMW01SW_062223	Water	06/22/23 1140	**IV**
E2300610-006	18CPTMW01DW_062223	Water	06/22/23 1020	**IV**
E2300610-007	MW2_062223	Water	06/22/23 0910	**IV**
E2300610-008	MW1_062223	Water	06/22/23 1250	**IV**

Service Request Summary

Folder #: **E2300610**
Client Name: ALS Environmental - US
Project Name: HS23061712
Project Number:

Report To: James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number:
E-mail: james.guin@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 06/26/23
Internal Due Date: 7/11/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23061712
EDD: BASIC_WQC_CASNo_LOD

10 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
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
Arizona Department of Health Services	AZ0793_2024	5/27/2024
Arkansas Department of Environmental Quality	88-00356	3/27/2024
California State Environmental Laboratory Accreditation Program	2919	4/30/2024
Department of Defense	L23-358	5/31/2025
Department of Defense	L22-90	3/31/2024
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2022-2023	7/31/2023
Louisiana Department of Health and Hospitals	LA028-2023	12/31/2023
Maine Department of Health and Human Services	2022017	6/5/2024
Michigan Depratment of Environmental Quality	9971-2023	4/30/2024
Minnesota Department of Health	2368363	12/31/2023
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2024
Nevada Department of Conservation and Natural Resources	TX026932023-1	7/31/2023
New Hampshire Environmental Laboratory Accreditation Program	209423	4/24/2024
New York Department of Health	11707	3/31/2024
Oklahoma Department of Environmental Quality	2022-141	8/31/2023
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Concervation	TN04016-2023	4/30/2024
Texas Commision on Environmental Quality	T104704231-23-30	4/30/2024
Utah Department of Health Environmental Laboratory Certification	TX026932022-13	7/31/2023
Washington Department of Ecology	C819-22	11/14/2023

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

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:** 22152

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:	HS23061712
TSR:	Holly Tignac

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS23061712-01**	**1824DPTMW05_062223**	**Water**	**22 Jun 2023 10:30**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			11 Jul 2023
2.	**HS23061712-02**	**18CPTMW105W_062223**	**Water**	**22 Jun 2023 13:35**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			11 Jul 2023
3.	**HS23061712-03**	**18CPTMW108W_062223**	**Water**	**22 Jun 2023 15:40**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			11 Jul 2023
4.	**HS23061712-04**	**18CPTMW108Wa_062223**	**Water**	**22 Jun 2023 15:40**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			11 Jul 2023
5.	**HS23061712-05**	**18CPTMW015W_062223**	**Water**	**22 Jun 2023 11:40**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			11 Jul 2023
6.	**HS23061712-06**	**18CPTMW01DW_062223**	**Water**	**22 Jun 2023 10:20**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			11 Jul 2023
7.	**HS23061712-07**	**MW2_062223**	**Water**	**22 Jun 2023 09:10**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			11 Jul 2023
8.	**HS23061712-08**	**MW1_062223**	**Water**	**22 Jun 2023 12:50**

18CPTMW10DWa_06223 CHANGED TO 18CPTMW10DW_06223_a

Subcontract Chain of Custody

SAMPLING STATE: Texas **COC ID:** 22152

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		11 Jul 2023

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: 6-26-23 1510

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

ALS Environmental

Cooler Receipt Form

Project Chemist JG

Client/Project ALS

Thermometer ID 1821

Date/Time Received: 6.26.23 Initials: CG

Date/Time Logged in: 6.26.23 Initials CG

1. Method of delivery: ○ US Mail ○ Fed Ex ○ UPS ○ DHL ✓ Courier (ALS) ○ Client

2. Samples received in: ✓ Cooler ○ Box ○ Envelope ○ Other

3. Were custody seals on coolers? ○ Yes ✓ No

Were they intact? ○ Yes ○ No ✓ N/A

Were they signed and dated? ○ Yes ○ No ✓ N/A

If yes, how many and where?

4. Packing Material: ○ Inserts ✓ Baggies ○ Bubble Wrap ○ Gel Packs ✓ Wet Ice ○ Sleeves ○ Other

5. Foreign or Regulated Soil? ○ Yes ○ No Location of Sampling:

Cooler Tracking Number	COC ID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?
NA		6.26.23	1910	CG	1.7	✓
						☐
						☐
						☐

6. Were custody papers properly filled out (ink, signed, dated, etc)? ✓ Yes ○ No

7. Did all bottles arrive in good condition (not broken, no signs of leakage)? ✓ Yes ○ No

8. Were all sample labels complete (i.e., sample ID, analysis, preservation, etc)? ✓ Yes ○ No

9. Were appropriate bottles/containers and volumes received for the requested tests? ✓ Yes ○ No

10. Did sample labels and tags agree with custody documents? ✓ Yes ○ No

Notes, Discrepancies, & Resolutions:

Service request Label:

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#: 422186 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 6/27/23 08:35

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2300606-001	AAR3332	.02	6850/ClO4 DOD			Ground Water	10mL	
2	E2300606-008	AAR3348	.02	6850/ClO4 DOD			Ground Water	10mL	
3	E2300610-001	1824DPTMW05_062223	.01	6850/ClO4 DOD			Water	10mL	
4	E2300610-002	18CPTMW10SW_062223	.01	6850/ClO4 DOD			Water	10mL	
5	E2300610-003	18CPTMW10DW_062223	.01	6850/ClO4 DOD			Water	10mL	
6	E2300610-004	18CPTMW10DW_062223_a	.01	6850/ClO4 DOD			Water	10mL	
7	E2300610-005	18CPTMW01SW_062223	.01	6850/ClO4 DOD			Water	10mL	
8	E2300610-006	18CPTMW01DW_062223	.01	6850/ClO4 DOD			Water	10mL	
9	E2300610-007	MW2_062223	.01	6850/ClO4 DOD			Water	10mL	
10	E2300610-008	MW1_062223	.02	6850/ClO4 DOD			Water	10mL	
11	E2300611-001	18WW19_062323	.01	6850/ClO4 DOD			Water	10mL	
12	E2300611-002	18WW19_062323_a	.01	6850/ClO4 DOD			Water	10mL	
13	E2300611-003	18WW20_062323	.01	6850/ClO4 DOD			Water	10mL	
14	E2300611-004	18WW08_062323	.01	6850/ClO4 DOD			Water	10mL	
15	E2300611-005	18WW09_062323	.01	6850/ClO4 DOD			Water	10mL	
16	E2300611-006	18PTW15_062323	.01	6850/ClO4 DOD			Water	10mL	
17	E2300611-007	18PTW15_062323_a	.01	6850/ClO4 DOD			Water	10mL	
18	E2300611-008	MW18_062323	.01	6850/ClO4 DOD			Water	10mL	
19	E2300611-009	MW19_062323	.01	6850/ClO4 DOD			Water	10mL	
20	E2300611-010	18CPTMW26SW_062323	.01	6850/ClO4 DOD			Water	10mL	
21	EQ2300312-01	MB		6850/ClO4 DOD			Liquid	10mL	
22	EQ2300312-02	LCS		6850/ClO4 DOD			Liquid	10mL	
23	EQ2300312-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
24	EQ2300312-04	AAR3332 MS	.02	6850/ClO4 DOD			Liquid	10mL	
25	EQ2300312-05	AAR3332 DMS	.02	6850/ClO4 DOD			Liquid	10mL	
26	EQ2300312-06	AAR3348 MS	.02	6850/ClO4 DOD			Liquid	10mL	
27	EQ2300312-07	AAR3348 DMS	.02	6850/ClO4 DOD			Liquid	10mL	
28	EQ2300312-08	MW1_062223 MS	.02	6850/ClO4 DOD			Liquid	10mL	
29	EQ2300312-09	MW1_062223 DMS	.02	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock1 Inventory ID 227236 Logbook Ref: Perchlorate (1st Source) Expires On: 07/31/2023

EQ2300312-02 1.00µL EQ2300312-03 1.00µL EQ2300312-04 1.00µL EQ2300312-05 1.00µL EQ2300312-06 1.00µL EQ2300312-07 1.00µL
EQ2300312-08 1.00µL EQ2300312-09 1.00µL

Preparation Information Benchsheet

Prep Run#: 422186 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 6/27/23 08:35

Name:	Perchlorate Internal Standard 1ug/mL	Inventory ID	227244	Logbook Ref:	Perchlorate Internal Standard	Expires On:	07/31/2023

E2300606-001	100.00µL	E2300606-008	100.00µL	E2300610-001	100.00µL	E2300610-002	100.00µL	E2300610-003	100.00µL	E2300610-004	100.00µL
E2300610-005	100.00µL	E2300610-006	100.00µL	E2300610-007	100.00µL	E2300610-008	100.00µL	E2300611-001	100.00µL	E2300611-002	100.00µL
E2300611-003	100.00µL	E2300611-004	100.00µL	E2300611-005	100.00µL	E2300611-006	100.00µL	E2300611-007	100.00µL	E2300611-008	100.00µL
E2300611-009	100.00µL	E2300611-010	100.00µL	EQ2300312-01	100.00µL	EQ2300312-02	100.00µL	EQ2300312-03	100.00µL	EQ2300312-04	100.00µL
EQ2300312-05	100.00µL	EQ2300312-06	100.00µL	EQ2300312-07	100.00µL	EQ2300312-08	100.00µL	EQ2300312-09	100.00µL		

Preparation Steps

Step: Preparation
Started: 6/27/23 08:35
Finished: 6/27/23 16:02
By: XMI
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:**	E2300610
Project:	HS23061712	**Date Collected:**	6/22/23 1030
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	1824DPTMW05_062223	**Units:**	µg/L
Lab Code:	E2300610-001	**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	**199000**		1000	500	250	10000	6/27/23	6/29/23 15:58	422186	809329	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300610
Project:	HS23061712	**Date Collected:**	6/22/23 1335
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	18CPTMW10SW_062223	**Units:**	µg/L
Lab Code:	E2300610-002	**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	**0.195**		0.100	0.0500	0.0250	1	6/27/23	6/29/23 16:04	422186	809329	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300610
Project:	HS23061712	**Date Collected:**	6/22/23 1540
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	18CPTMW10DW_062223	**Units:**	µg/L
Lab Code:	E2300610-003	**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	6/27/23	6/29/23 16:09	422186	809329	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300610
Project:	HS23061712	**Date Collected:**	6/22/23 1540
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	18CPTMW10DW_062223_a	**Units:**	µg/L
Lab Code:	E2300610-004	**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	**0.0359**	J	0.100	0.0500	0.0250	1	6/27/23	6/29/23 16:15	422186	809329	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300610
Project:	HS23061712	**Date Collected:**	6/22/23 1140
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	18CPTMW01SW_062223	**Units:**	µg/L
Lab Code:	E2300610-005	**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	**0.0345**	J	0.100	0.0500	0.0250	1	6/27/23	6/29/23 16:26	422186	809329	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300610
Project:	HS23061712	**Date Collected:**	6/22/23 1020
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	18CPTMW01DW_062223	**Units:**	µg/L
Lab Code:	E2300610-006	**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	6/27/23	6/29/23 16:32	422186	809329	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300610
Project:	HS23061712	**Date Collected:**	6/22/23 0910
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	MW2_062223	**Units:**	µg/L
Lab Code:	E2300610-007	**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	**0.0940**	J	0.100	0.0500	0.0250	1	6/27/23	6/29/23 16:37	422186	809329	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300610
Project:	HS23061712	**Date Collected:**	6/22/23 1250
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	MW1_062223	**Units:**	µg/L
Lab Code:	E2300610-008	**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	**2160**		10.0	5.00	2.50	100	6/27/23	6/30/23 08:48	422186	809342	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300610
Project:	HS23061712	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2300312-01	**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	6/27/23	6/29/23 14:22	422186	809329	

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:**	E2300610
Project:	HS23061712	**Date Analyzed:**	6/30/23 - 6/30/23
Sample Matrix:	Water		

Lab Control Sample Summary

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

Analytical Method:	6850	**Units:**	µg/L
Prep Method:	Method	**Basis:**	NA
		Extraction Lot:	422186

	Lab Control Sample EQ2300312-02			Duplicate Lab Control Sample EQ2300312-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.0868	0.100	87	0.0893	0.100	89	84 - 119	3	15

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

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300610
Project:	HS23061712	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300312-02	**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	**0.0868**	J	0.100	0.0500	0.0250	1	6/27/23	6/30/23 09:12	422186	809342	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300610
Project:	HS23061712	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300312-03	**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	**0.0893**	J	0.100	0.0500	0.0250	1	6/27/23	6/29/23 14:33	422186	809329	

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300610
Project:	HS23061712	**Date Collected:**	6/22/23
Sample Matrix:	Water	**Date Received:**	6/26/23
		Date Analyzed:	6/29/23

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

Sample Name:	MW1_062223	**Units:**	µg/L
Lab Code:	E2300610-008	**Basis:**	NA

Analytical Method: 6850
Prep Method: Method

		MW1_062223MS				MW1_062223DMS					
		Matrix Spike				**Duplicate Matrix Spike**					
		EQ2300312-08				EQ2300312-09					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	2160	2210	0.100	47935 #	2200	0.100	36729 #	84 - 119	<1	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.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300610
Project:	HS23061712	**Date Collected:**	6/22/23 1250
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	MW1_062223	**Units:**	µg/L
Lab Code:	EQ2300312-08	**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	**2210**	E	0.100	0.0500	0.0250	1	6/27/23	6/29/23 16:48	422186	809329	*

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300610
Project:	HS23061712	**Date Collected:**	6/22/23 1250
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	MW1_062223	**Units:**	µg/L
Lab Code:	EQ2300312-09	**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	**2200**	E	0.100	0.0500	0.0250	1	6/27/23	6/29/23 16:54	422186	809329	*

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

20230629-809329

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XM
2nd Review: GC

ICAL Date: 6/29/2023
Cal. Std. xp: 06/29/2023
ICAL ID: EC2300011

Mobile Phases : A:20mM ammonium acetate in water 32103046 **B:**Acetonitrile 226552

	Sample Name		File Name	Acquisition Method	Dilution	Comments	Date/Time
1	PERCHLORATE1		20230629-001	Perchlorate6850c.lcm	1x	227245	6/29/2023 12:59
2	PERCHLORATE2		20230629-002	Perchlorate6850c.lcm	1x	227246	6/29/2023 13:05
3	PERCHLORATE3		20230629-003	Perchlorate6850c.lcm	1x	227247	6/29/2023 13:10
4	PERCHLORATE4		20230629-004	Perchlorate6850c.lcm	1x	227248	6/29/2023 13:16
5	PERCHLORATE5		20230629-005	Perchlorate6850c.lcm	1x	227249	6/29/2023 13:21
6	PERCHLORATE6		20230629-006	Perchlorate6850c.lcm	1x	227250	6/29/2023 13:27
7	PERCHLORATE7		20230629-007	Perchlorate6850c.lcm	1x	227251	6/29/2023 13:32
8	PERCHLORATE8		20230629-008	Perchlorate6850c.lcm	1x	227252	6/29/2023 13:38
9	PERCHLORATE9		20230629-009	Perchlorate6850c.lcm	1x	227253	6/29/2023 13:43
10	PERCHLORATE10		20230629-010	Perchlorate6850c.lcm	1x	227254	6/29/2023 13:49
11	PERCHLORATEICV		20230629-011	Perchlorate6850c.lcm	1x	227256	6/29/2023 13:55
12	IB		20230629-012	Perchlorate6850c.lcm	1x		6/29/2023 14:00
13	LODV		20230629-013	Perchlorate6850c.lcm	1x	227501	6/29/2023 14:06
14	ICS		20230629-014	Perchlorate6850c.lcm	1x	32103024	6/29/2023 14:11
15	CCV		20230629-015	Perchlorate6850c.lcm	1x	227251	6/29/2023 14:17
16	EQ2300312-01		20230629-016	Perchlorate6850c.lcm	1x		6/29/2023 14:22
17	EQ2300312-02		20230629-017	Perchlorate6850c.lcm	1x	DNU-RR	6/29/2023 14:28
18	EQ2300312-03		20230629-018	Perchlorate6850c.lcm	1x		6/29/2023 14:33
19	E2300606-001		20230629-019	Perchlorate6850c.lcm	10x		6/29/2023 14:39
20	EQ2300312-04		20230629-020	Perchlorate6850c.lcm	1x		6/29/2023 14:44
21	EQ2300312-05		20230629-021	Perchlorate6850c.lcm	1x		6/29/2023 14:50
22	E2300606-002		20230629-022	Perchlorate6850c.lcm	5x		6/29/2023 14:55
23	E2300606-003		20230629-023	Perchlorate6850c.lcm	10x		6/29/2023 15:01
24	E2300606-004		20230629-024	Perchlorate6850c.lcm	10x		6/29/2023 15:06
25	E2300606-005		20230629-025	Perchlorate6850c.lcm	1x		6/29/2023 15:12
26	CCV		20230629-026	Perchlorate6850c.lcm	1x	227251	6/29/2023 15:17
27	E2300606-006		20230629-027	Perchlorate6850c.lcm	1x		6/29/2023 15:23
28	E2300606-007		20230629-028	Perchlorate6850c.lcm	500x		6/29/2023 15:28
29	E2300606-008		20230629-029	Perchlorate6850c.lcm	100x		6/29/2023 15:34
30	EQ2300312-06		20230629-030	Perchlorate6850c.lcm	100x		6/29/2023 15:40
31	EQ2300312-07		20230629-031	Perchlorate6850c.lcm	100x		6/29/2023 15:45
32	E2300606-009		20230629-032	Perchlorate6850c.lcm	1x		6/29/2023 15:53
33	E2300610-001		20230629-033	Perchlorate6850c.lcm	10000x		6/29/2023 15:58
34	E2300610-002		20230629-034	Perchlorate6850c.lcm	1x		6/29/2023 16:04
35	E2300610-003		20230629-035	Perchlorate6850c.lcm	1x		6/29/2023 16:09
36	E2300610-004		20230629-036	Perchlorate6850c.lcm	1x		6/29/2023 16:15
37	CCV		20230629-037	Perchlorate6850c.lcm	1x	227251	6/29/2023 16:21

20230629-809329

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XM
2nd Review: GC

ICAL Date: 6/29/2023
Cal. Std. xp: 06/29/2023
ICAL ID: EC2300011

Mobile Phases : A:20mM ammonium acetate in water 32103046 **B:**Acetonitrile 226552

	Sample Name		File Name	Acquisition Method	Dilution	Comments	Date/Time
38	E2300610-005		20230629-038	Perchlorate6850c.lcm	1x		6/29/2023 16:26
39	E2300610-006		20230629-039	Perchlorate6850c.lcm	1x		6/29/2023 16:32
40	E2300610-007		20230629-040	Perchlorate6850c.lcm	1x		6/29/2023 16:37
41	E2300610-008		20230629-041	Perchlorate6850c.lcm	1x	DNU-D	6/29/2023 16:43
42	EQ2300312-08		20230629-042	Perchlorate6850c.lcm	1x		6/29/2023 16:48
43	EQ2300312-09		20230629-043	Perchlorate6850c.lcm	1x		6/29/2023 16:54
44	E2300611-001		20230629-044	Perchlorate6850c.lcm	1x		6/29/2023 16:59
45	E2300611-002		20230629-045	Perchlorate6850c.lcm	1x		6/29/2023 17:05
46	E2300611-003		20230629-046	Perchlorate6850c.lcm	1x		6/29/2023 17:10
47	E2300611-004		20230629-047	Perchlorate6850c.lcm	1x	DNU-D	6/29/2023 17:16
48	CCV		20230629-048	Perchlorate6850c.lcm	1x	227251	6/29/2023 17:21
49	E2300611-005		20230629-049	Perchlorate6850c.lcm	1x		6/29/2023 17:27
50	E2300611-006		20230629-050	Perchlorate6850c.lcm	1x	DNU-D	6/29/2023 17:32
51	E2300611-007		20230629-051	Perchlorate6850c.lcm	1x	DNU-D	6/29/2023 17:38
52	E2300611-008		20230629-052	Perchlorate6850c.lcm	1x		6/29/2023 17:43
53	E2300611-009		20230629-053	Perchlorate6850c.lcm	1x		6/29/2023 17:49
54	E2300611-010		20230629-054	Perchlorate6850c.lcm	1x		6/29/2023 17:55
55	CCV		20230629-055	Perchlorate6850c.lcm	1x	227251	6/29/2023 18:06

Initial Calibration - Detailed Report

Calibration ID: EC2300011 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2300011-01	PERCHLORATE1	20230629-001	06/29/2023 12:59
02	EC2300011-02	PERCHLORATE2	20230629-002	06/29/2023 13:05
03	EC2300011-03	PERCHLORATE3	20230629-003	06/29/2023 13:10
04	EC2300011-04	PERCHLORATE4	20230629-004	06/29/2023 13:16
05	EC2300011-05	PERCHLORATE5	20230629-005	06/29/2023 13:21
06	EC2300011-06	PERCHLORATE6	20230629-006	06/29/2023 13:27
07	EC2300011-07	PERCHLORATE7	20230629-007	06/29/2023 13:32
08	EC2300011-08	PERCHLORATE8	20230629-008	06/29/2023 13:38
09	EC2300011-09	PERCHLORATE9	20230629-009	06/29/2023 13:43
10	EC2300011-10	PERCHLORATE10	20230629-010	06/29/2023 13:49

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

Perchlorate **Average RF** **RSD = 2.809** **Average RF = 0.1625**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1678	02	0.5000	0.1574	03	0.7000	0.1599	04	1.0000	0.1567
05	2.0000	0.1596	06	5.0000	0.1641	07	10.0000	0.1704	08	20.0000	0.1667
09	30.0000	0.1608	10	50.0000	0.1619						

Analyte

Perchlorate RSE = 2.81

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.103	3.2	02	0.5000	0.484	-3.1	03	0.7000	0.689	-1.6
04	1.0000	0.964	-3.6	05	2.0000	1.96	-1.8	06	5.0000	5.05	1.0
07	10.0000	10.5	4.8	08	20.0000	20.5	2.6	09	30.0000	29.7	-1.1
10	50.0000	49.8	-0.4								

Initial Calibration Verification Summary Report

Calibration ID:	EC2300011	**Instrument ID:**	E-LCMS-01
Datafile ID:	20230629-011	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2300011-11	T	Average RF	10	9.913	ng/mL	-0.9	<= 15

Insight Report

Printed at 6/29/2023 2:17:05 PM

Method File: I:\LCMS01\DATA\20230628\06282023.lcm
Project File: I:\LCMS01\DATA\20230628\06282023.damlp

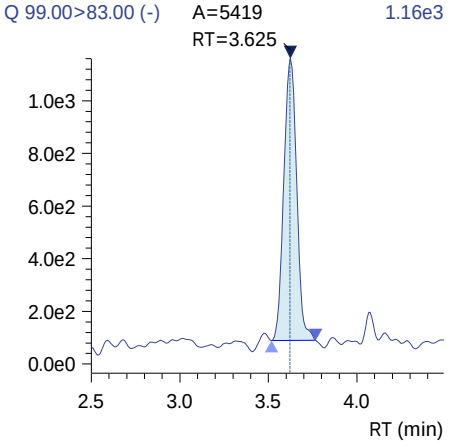
PERCHLORATE1

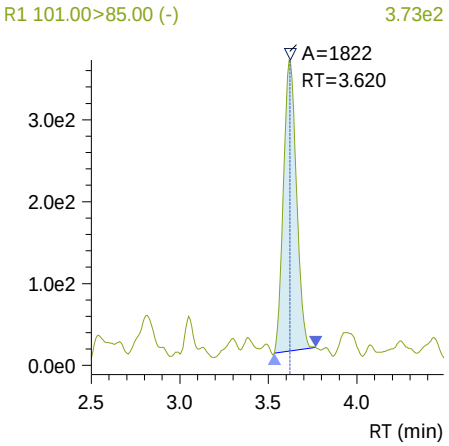
Sample ID: PERCHLORATE1
Date Acquired: 6/29/2023 12:59:40 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.625	5419	323018	0.1032	ng/mL	101.00 >85.00	33.63	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.617	323018	323018	1.0000	ng/mL	----	----	

Perchlorate

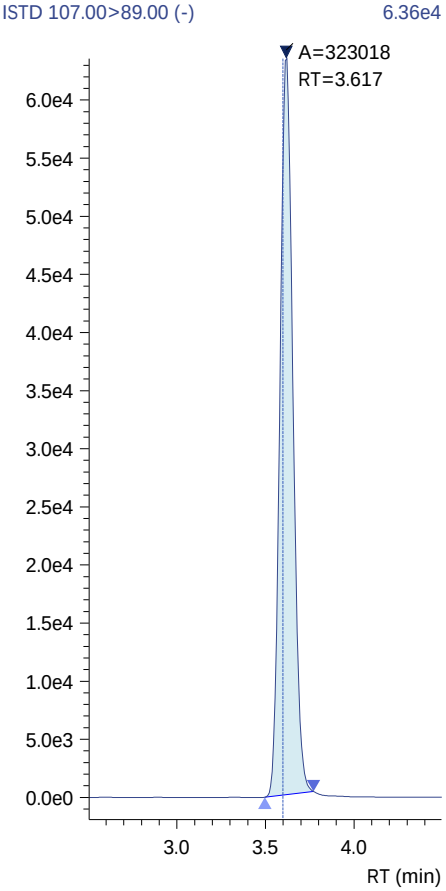
Conc 0.1032
R#1 33.63 (32.02)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/29/2023 2:17:05 PM

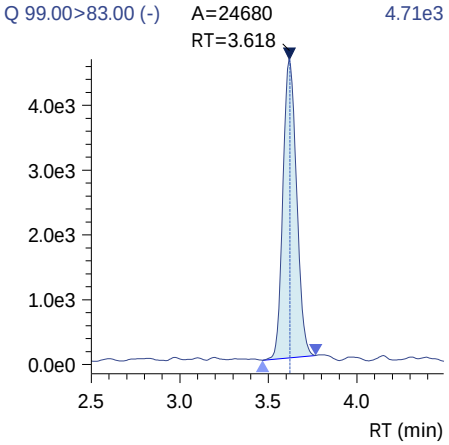
PERCHLORATE2

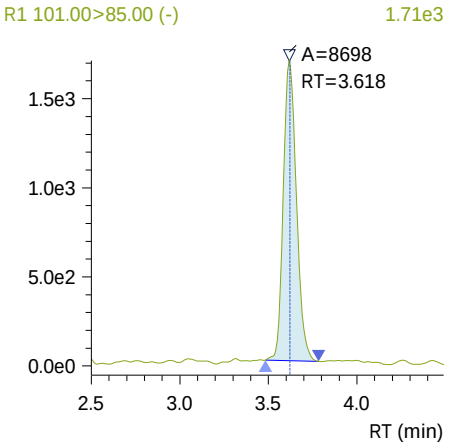
Sample ID: PERCHLORATE2
Date Acquired: 6/29/2023 1:05:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-002.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.618	24680	313519	0.4844	ng/mL	101.00 >85.00	35.24	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.618	313519	313519	1.0000	ng/mL	----	----	

Perchlorate

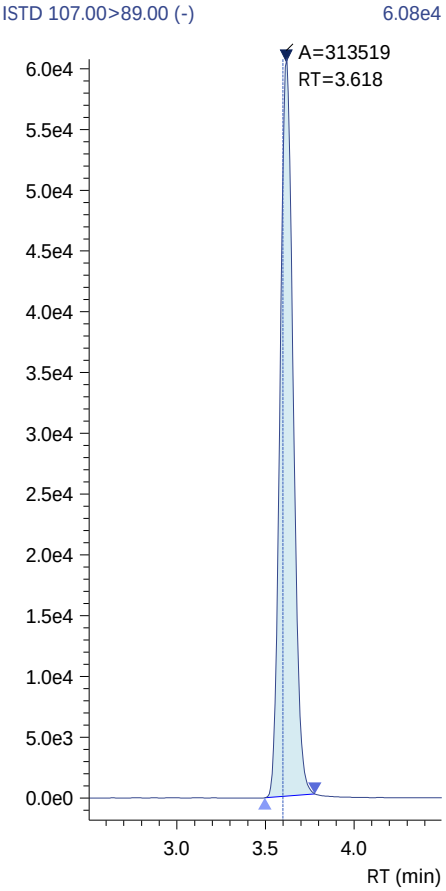
Conc 0.4844
R#1 35.24 (32.02)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/29/2023 2:17:05 PM

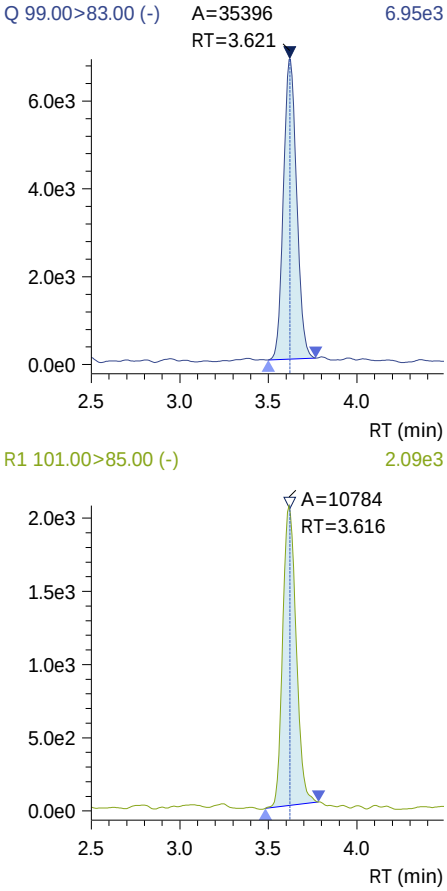
PERCHLORATE3

Sample ID: PERCHLORATE3
Date Acquired: 6/29/2023 1:10:46 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-003.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	Auto	3.621	35396	316311	0.6886	ng/mL	101.00 >85.00	30.47	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.618	316311	316311	1.0000	ng/mL	----	----	

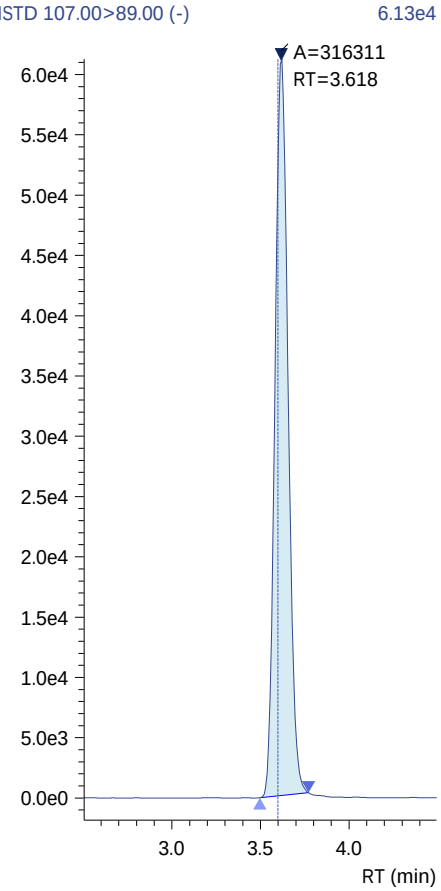
Perchlorate

Conc 0.6886
R#1 30.47 (32.02)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/29/2023 2:17:05 PM

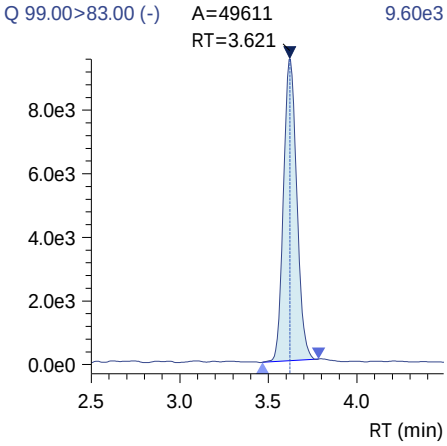
PERCHLORATE4

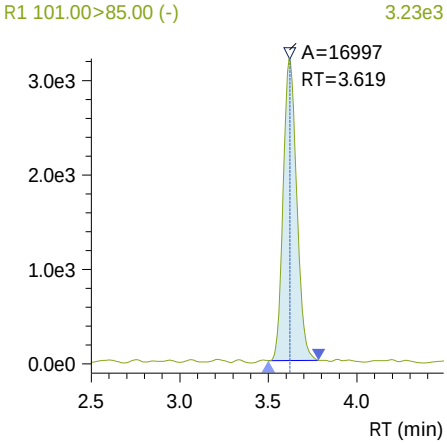
Sample ID: PERCHLORATE4
Date Acquired: 6/29/2023 1:16:19 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-004.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.621	49611	316580	0.9643	ng/mL	101.00 >85.00	34.26	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.618	316580	316580	1.0000	ng/mL	----	----	

Perchlorate

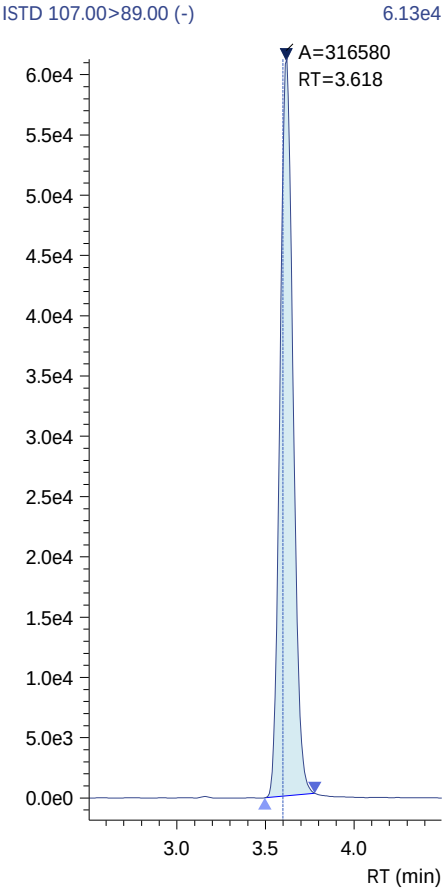
Conc 0.9643
R#1 34.26 (32.02)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/29/2023 2:17:05 PM

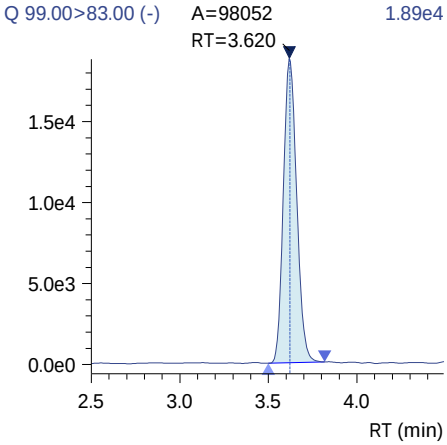
PERCHLORATE5

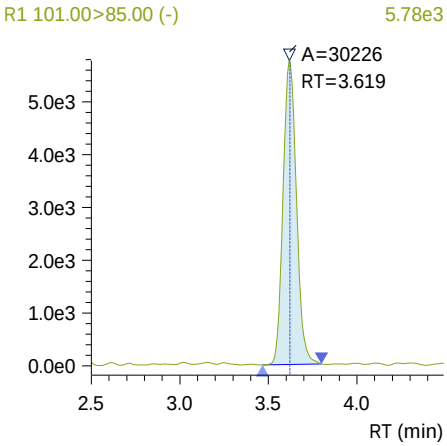
Sample ID: PERCHLORATE5
Date Acquired: 6/29/2023 1:21:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-005.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.620	98052	307162	1.9642	ng/mL	101.00 >85.00	30.83	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.617	307162	307162	1.0000	ng/mL	----	----	

Perchlorate

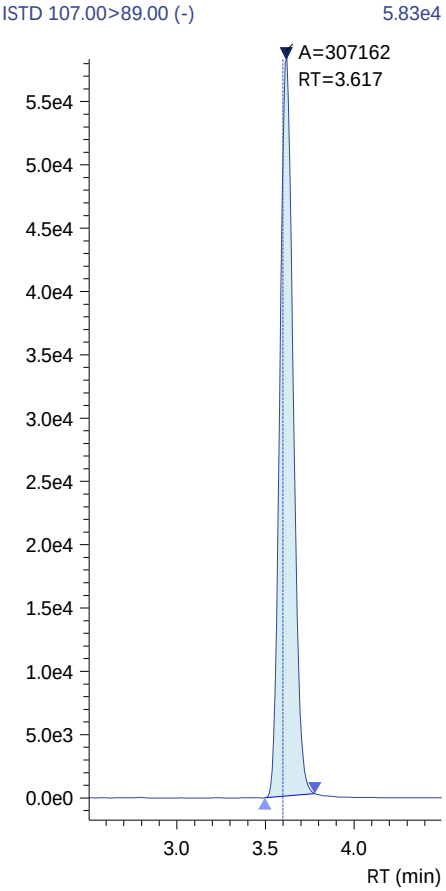
Conc 1.9642
R#1 30.83 (32.02)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/29/2023 2:17:05 PM

PERCHLORATE6

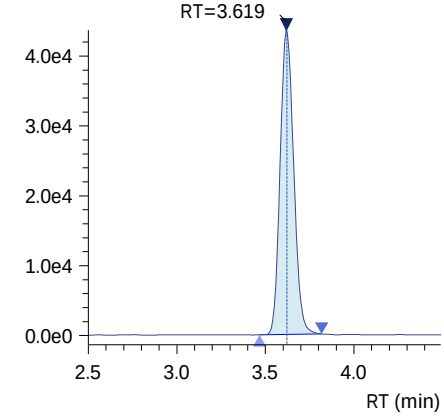
Sample ID: PERCHLORATE6
Date Acquired: 6/29/2023 1:27:22 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-006.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.619	232011	282827	5.0477	ng/mL	101.00 >85.00	31.17	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.617	282827	282827	1.0000	ng/mL	----	----	

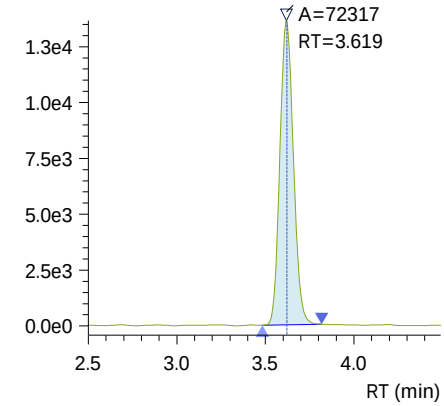
Perchlorate

Conc 5.0477
R#1 31.17 (32.02)

Q 99.00>83.00 (-) A=232011 RT=3.619 4.37e4



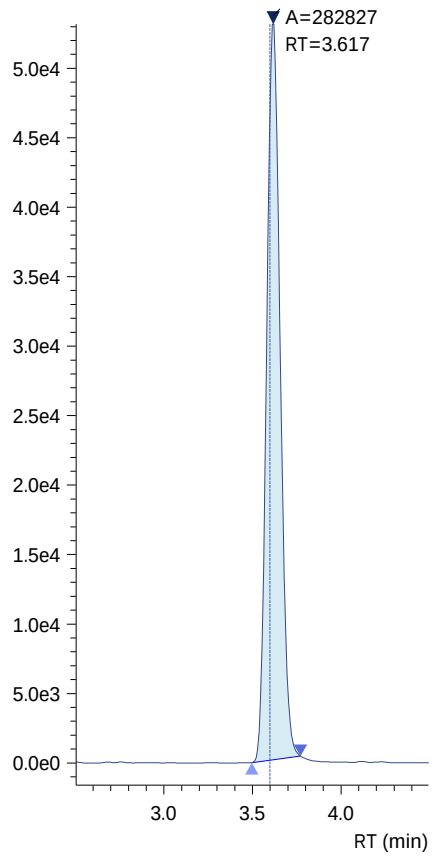
R1 101.00>85.00 (-) 1.37e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.32e4



Insight Report

Printed at 6/29/2023 2:17:05 PM

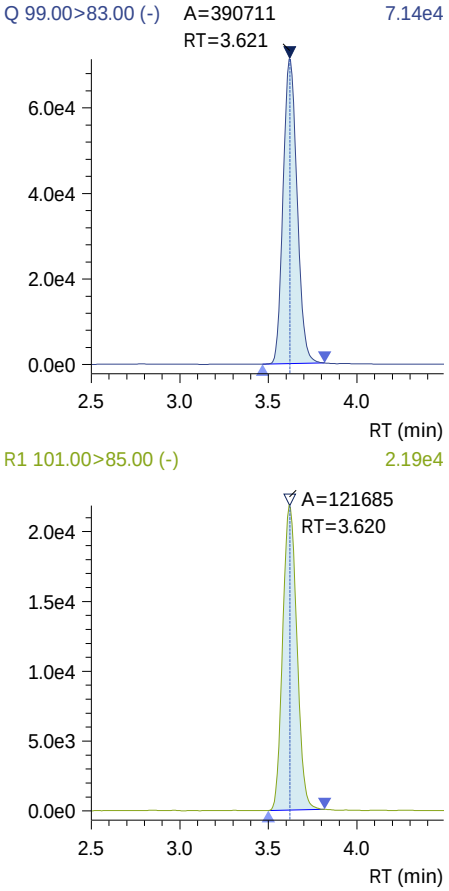
PERCHLORATE7

Sample ID: PERCHLORATE7
Date Acquired: 6/29/2023 1:32:51 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-007.lcd
Vial: 3 | 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	Auto	3.621	390711	229327	10.48 35	ng/mL	101.00 >85.00	31.14	22.41-41.62
Sodium Perchlorate-18O4_IS	Auto	3.616	229327	229327	1.0000	ng/mL	----	----	

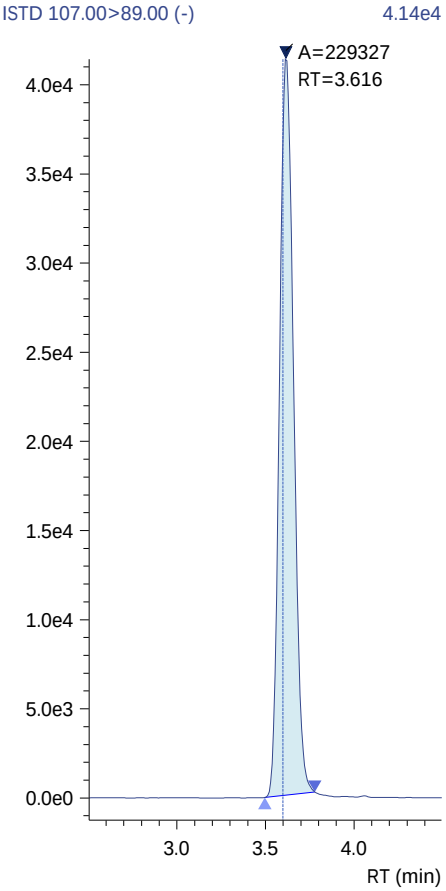
Perchlorate

Conc 10.4835
R#1 31.14 (32.02)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/29/2023 2:17:05 PM

PERCHLORATE8

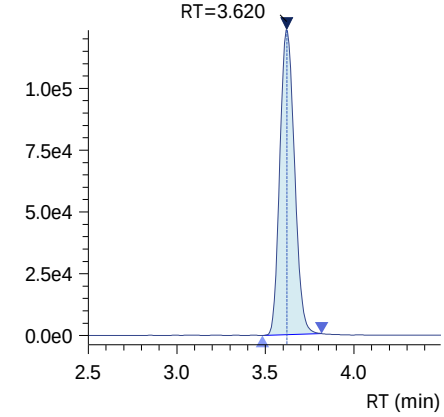
Sample ID: PERCHLORATE8
Date Acquired: 6/29/2023 1:38:22 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-008.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.620	710430	213093	20.5144	ng/mL	101.00 >85.00	31.25	22.41-41.62
Sodium Perchlorate-18O4_IS	Auto	3.615	213093	213093	1.0000	ng/mL	----	----	

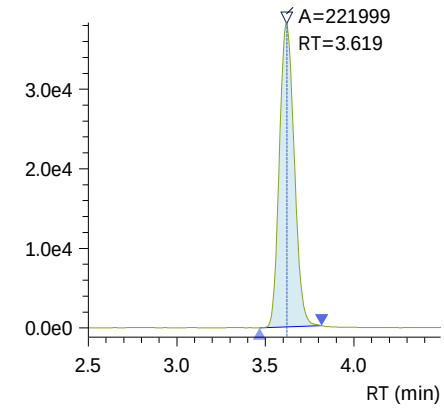
Perchlorate

Conc 20.5144
R#1 31.25 (32.02)

Q 99.00>83.00 (-) A=710430 RT=3.620 1.24e5



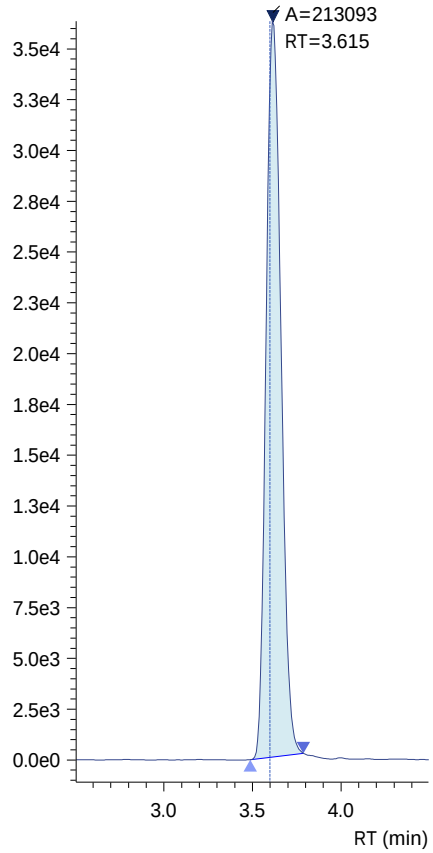
R1 101.00>85.00 (-) 3.84e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.64e4



Insight Report

Printed at 6/29/2023 2:17:05 PM

PERCHLORATE9

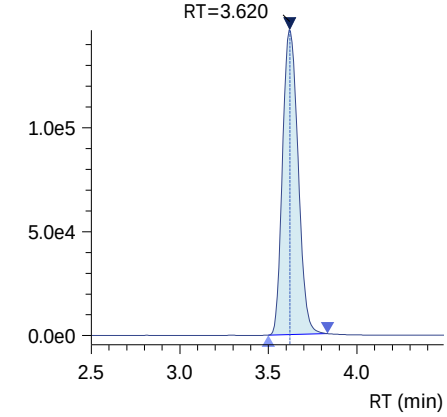
Sample ID: PERCHLORATE9
Date Acquired: 6/29/2023 1:43:53 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-009.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.620	896468	185851	29.6808	ng/mL	101.00 >85.00	31.06	22.41-41.62
Sodium Perchlorate-18O4_IS	Auto	3.614	185851	185851	1.0000	ng/mL	----	----	

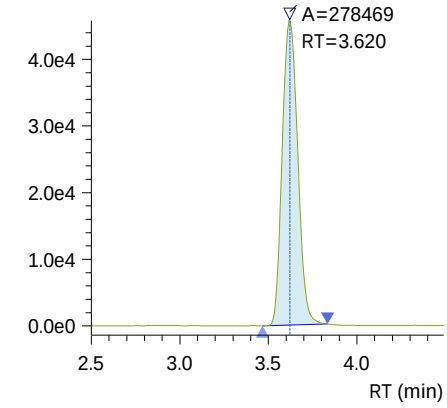
Perchlorate

Conc 29.6808
R#1 31.06 (32.02)

Q 99.00>83.00 (-) A=896468 1.47e5



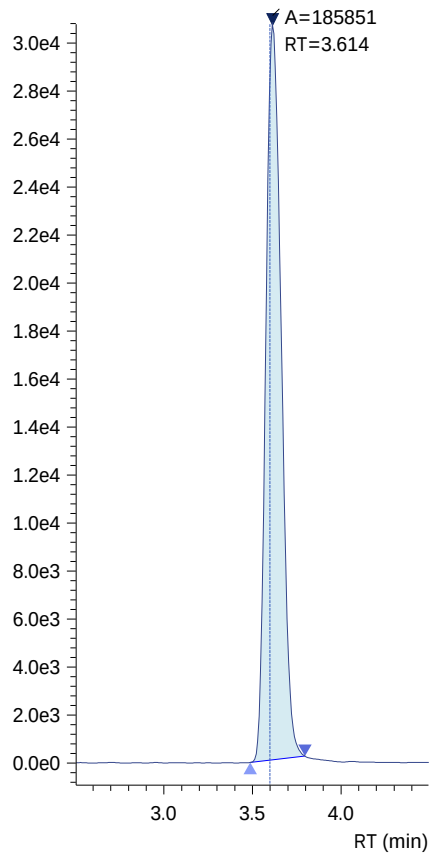
R1 101.00>85.00 (-) 4.58e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.08e4



Insight Report

Printed at 6/29/2023 2:17:05 PM

PERCHLORATE10

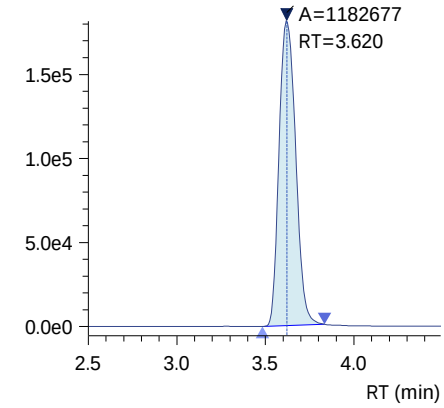
Sample ID: PERCHLORATE10
Date Acquired: 6/29/2023 1:49:27 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-010.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.620	1182677	146135	49.79 86	ng/mL	101.00 >85.00	30.89	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.614	146135	146135	1.0000	ng/mL	----	----	

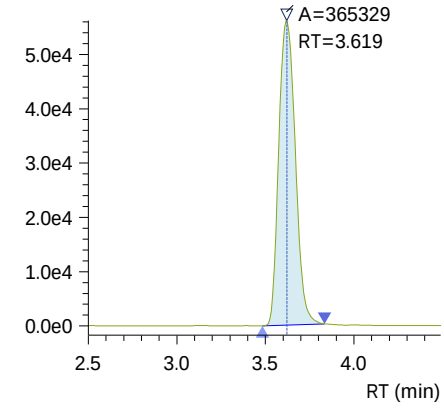
Perchlorate

Conc 49.7986
R#1 30.89 (32.02)

Q 99.00>83.00 (-) 1.82e5



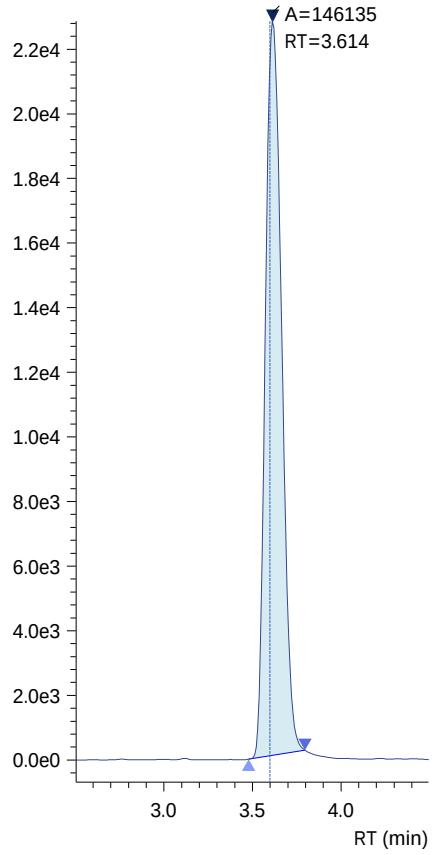
R1 101.00>85.00 (-) 5.62e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.29e4



Insight Report

Printed at 6/29/2023 2:17:05 PM

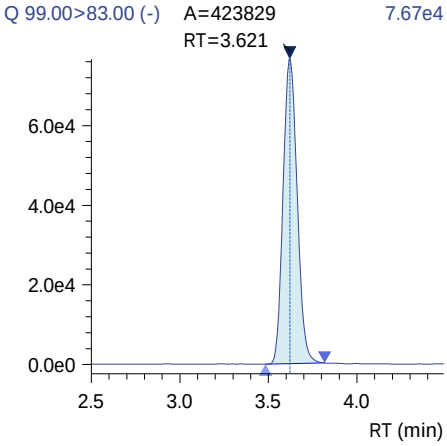
PERCHLORATEICV

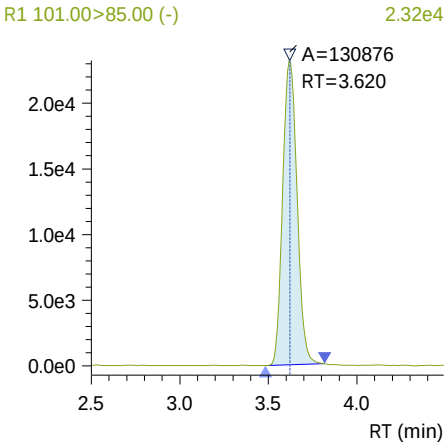
Sample ID: PERCHLORATEICV
Date Acquired: 6/29/2023 1:55:00 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-011.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.621	423829	263091	9.9127	ng/mL	101.00 >85.00	30.88	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.617	263091	263091	1.0000	ng/mL	----	----	

Perchlorate

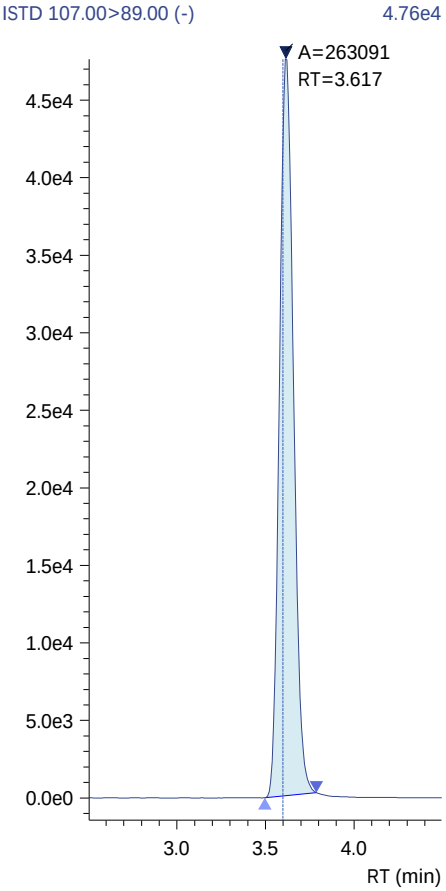
Conc 9.9127
R#1 30.88 (32.02)





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

20230629-809329

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XM
2nd Review: GC

ICAL Date: 6/29/2023
Cal. Std. xp: 06/29/2023
ICAL ID: EC2300011

Mobile Phases : A:20mM ammonium acetate in water 32103046 **B:**Acetonitrile 226552

	Sample Name		File Name	Acquisition Method	Dilution	Comments	Date/Time
1	PERCHLORATE1		20230629-001	Perchlorate6850c.lcm	1x	227245	6/29/2023 12:59
2	PERCHLORATE2		20230629-002	Perchlorate6850c.lcm	1x	227246	6/29/2023 13:05
3	PERCHLORATE3		20230629-003	Perchlorate6850c.lcm	1x	227247	6/29/2023 13:10
4	PERCHLORATE4		20230629-004	Perchlorate6850c.lcm	1x	227248	6/29/2023 13:16
5	PERCHLORATE5		20230629-005	Perchlorate6850c.lcm	1x	227249	6/29/2023 13:21
6	PERCHLORATE6		20230629-006	Perchlorate6850c.lcm	1x	227250	6/29/2023 13:27
7	PERCHLORATE7		20230629-007	Perchlorate6850c.lcm	1x	227251	6/29/2023 13:32
8	PERCHLORATE8		20230629-008	Perchlorate6850c.lcm	1x	227252	6/29/2023 13:38
9	PERCHLORATE9		20230629-009	Perchlorate6850c.lcm	1x	227253	6/29/2023 13:43
10	PERCHLORATE10		20230629-010	Perchlorate6850c.lcm	1x	227254	6/29/2023 13:49
11	PERCHLORATEICV		20230629-011	Perchlorate6850c.lcm	1x	227256	6/29/2023 13:55
12	IB		20230629-012	Perchlorate6850c.lcm	1x		6/29/2023 14:00
13	LODV		20230629-013	Perchlorate6850c.lcm	1x	227501	6/29/2023 14:06
14	ICS		20230629-014	Perchlorate6850c.lcm	1x	32103024	6/29/2023 14:11
15	CCV		20230629-015	Perchlorate6850c.lcm	1x	227251	6/29/2023 14:17
16	EQ2300312-01		20230629-016	Perchlorate6850c.lcm	1x		6/29/2023 14:22
17	EQ2300312-02		20230629-017	Perchlorate6850c.lcm	1x	DNU-RR	6/29/2023 14:28
18	EQ2300312-03		20230629-018	Perchlorate6850c.lcm	1x		6/29/2023 14:33
19	E2300606-001		20230629-019	Perchlorate6850c.lcm	10x		6/29/2023 14:39
20	EQ2300312-04		20230629-020	Perchlorate6850c.lcm	1x		6/29/2023 14:44
21	EQ2300312-05		20230629-021	Perchlorate6850c.lcm	1x		6/29/2023 14:50
22	E2300606-002		20230629-022	Perchlorate6850c.lcm	5x		6/29/2023 14:55
23	E2300606-003		20230629-023	Perchlorate6850c.lcm	10x		6/29/2023 15:01
24	E2300606-004		20230629-024	Perchlorate6850c.lcm	10x		6/29/2023 15:06
25	E2300606-005		20230629-025	Perchlorate6850c.lcm	1x		6/29/2023 15:12
26	CCV		20230629-026	Perchlorate6850c.lcm	1x	227251	6/29/2023 15:17
27	E2300606-006		20230629-027	Perchlorate6850c.lcm	1x		6/29/2023 15:23
28	E2300606-007		20230629-028	Perchlorate6850c.lcm	500x		6/29/2023 15:28
29	E2300606-008		20230629-029	Perchlorate6850c.lcm	100x		6/29/2023 15:34
30	EQ2300312-06		20230629-030	Perchlorate6850c.lcm	100x		6/29/2023 15:40
31	EQ2300312-07		20230629-031	Perchlorate6850c.lcm	100x		6/29/2023 15:45
32	E2300606-009		20230629-032	Perchlorate6850c.lcm	1x		6/29/2023 15:53
33	E2300610-001		20230629-033	Perchlorate6850c.lcm	10000x		6/29/2023 15:58
34	E2300610-002		20230629-034	Perchlorate6850c.lcm	1x		6/29/2023 16:04
35	E2300610-003		20230629-035	Perchlorate6850c.lcm	1x		6/29/2023 16:09
36	E2300610-004		20230629-036	Perchlorate6850c.lcm	1x		6/29/2023 16:15
37	CCV		20230629-037	Perchlorate6850c.lcm	1x	227251	6/29/2023 16:21

20230629-809329

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XM
2nd Review: GC

ICAL Date: 6/29/2023
Cal. Std. xp: 06/29/2023
ICAL ID: EC2300011

Mobile Phases : A:20mM ammonium acetate in water 32103046 **B:**Acetonitrile 226552

	Sample Name		File Name	Acquisition Method	Dilution	Comments	Date/Time
38	E2300610-005		20230629-038	Perchlorate6850c.lcm	1x		6/29/2023 16:26
39	E2300610-006		20230629-039	Perchlorate6850c.lcm	1x		6/29/2023 16:32
40	E2300610-007		20230629-040	Perchlorate6850c.lcm	1x		6/29/2023 16:37
41	E2300610-008		20230629-041	Perchlorate6850c.lcm	1x	DNU-D	6/29/2023 16:43
42	EQ2300312-08		20230629-042	Perchlorate6850c.lcm	1x		6/29/2023 16:48
43	EQ2300312-09		20230629-043	Perchlorate6850c.lcm	1x		6/29/2023 16:54
44	E2300611-001		20230629-044	Perchlorate6850c.lcm	1x		6/29/2023 16:59
45	E2300611-002		20230629-045	Perchlorate6850c.lcm	1x		6/29/2023 17:05
46	E2300611-003		20230629-046	Perchlorate6850c.lcm	1x		6/29/2023 17:10
47	E2300611-004		20230629-047	Perchlorate6850c.lcm	1x	DNU-D	6/29/2023 17:16
48	CCV		20230629-048	Perchlorate6850c.lcm	1x	227251	6/29/2023 17:21
49	E2300611-005		20230629-049	Perchlorate6850c.lcm	1x		6/29/2023 17:27
50	E2300611-006		20230629-050	Perchlorate6850c.lcm	1x	DNU-D	6/29/2023 17:32
51	E2300611-007		20230629-051	Perchlorate6850c.lcm	1x	DNU-D	6/29/2023 17:38
52	E2300611-008		20230629-052	Perchlorate6850c.lcm	1x		6/29/2023 17:43
53	E2300611-009		20230629-053	Perchlorate6850c.lcm	1x		6/29/2023 17:49
54	E2300611-010		20230629-054	Perchlorate6850c.lcm	1x		6/29/2023 17:55
55	CCV		20230629-055	Perchlorate6850c.lcm	1x	227251	6/29/2023 18:06

20230630-809342

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XM
2nd Review: GC

ICAL Date: 6/29/2023
Cal. Std. xp: 06/29/2023
ICAL ID: EC2300011

Mobile Phases : A:20mM ammonium acetate in water 32103046 **B:**Acetonitrile 226552

	Sample Name		File Name	Acquisition Method	Dilution	Comments	Date/Time
1	IB		20230630-001	Perchlorate6850c.lcm	1x		6/30/2023 8:18
2	LODV		20230630-002	Perchlorate6850c.lcm	1x	227501	6/30/2023 8:29
3	ICS		20230630-003	Perchlorate6850c.lcm	1x	32103024	6/30/2023 8:23
4	CCV		20230630-004	Perchlorate6850c.lcm	1x	227251	6/30/2023 8:34
5	E2300610-008		20230630-005	Perchlorate6850c.lcm	100x		6/30/2023 8:48
6	E2300611-004		20230630-006	Perchlorate6850c.lcm	1000x		6/30/2023 8:54
7	E2300611-006		20230630-007	Perchlorate6850c.lcm	2x		6/30/2023 8:59
8	E2300611-007		20230630-008	Perchlorate6850c.lcm	2x		6/30/2023 9:06
9	EQ2300312-02		20230630-009	Perchlorate6850c.lcm	1x		6/30/2023 9:12
10	E2300614-001		20230630-010	Perchlorate6850c.lcm	100x		6/30/2023 9:17
11	E2300614-002		20230630-011	Perchlorate6850c.lcm	100x		6/30/2023 9:23
12	E2300614-003		20230630-012	Perchlorate6850c.lcm	1000x	DNU-D	6/30/2023 9:28
13	EQ2300317-04		20230630-013	Perchlorate6850c.lcm	1x		6/30/2023 9:34
14	EQ2300317-05		20230630-014	Perchlorate6850c.lcm	1x		6/30/2023 9:39
15	CCV		20230630-015	Perchlorate6850c.lcm	1x	227251	6/30/2023 9:47
16	E2300614-004		20230630-016	Perchlorate6850c.lcm	100x		6/30/2023 9:53
17	E2300614-005		20230630-017	Perchlorate6850c.lcm	1x	DNU-RR	6/30/2023 9:58
18	EQ2300317-06		20230630-018	Perchlorate6850c.lcm	1x		6/30/2023 10:04
19	EQ2300317-07		20230630-019	Perchlorate6850c.lcm	1x		6/30/2023 10:09
20	E2300614-006		20230630-020	Perchlorate6850c.lcm	1x		6/30/2023 10:15
21	E2300614-007		20230630-021	Perchlorate6850c.lcm	1x		6/30/2023 10:20
22	E2300614-008		20230630-022	Perchlorate6850c.lcm	1x		6/30/2023 10:26
23	E2300614-009		20230630-023	Perchlorate6850c.lcm	1x		6/30/2023 10:31
24	E2300616-001		20230630-024	Perchlorate6850c.lcm	100x		6/30/2023 10:40
25	E2300616-002		20230630-025	Perchlorate6850c.lcm	1x		6/30/2023 10:46
26	CCV		20230630-026	Perchlorate6850c.lcm	1x	227251	6/30/2023 10:51
27	E2300616-003		20230630-027	Perchlorate6850c.lcm	100x		6/30/2023 10:57
28	E2300616-004		20230630-028	Perchlorate6850c.lcm	100x		6/30/2023 11:02
29	E2300616-005		20230630-029	Perchlorate6850c.lcm	100x		6/30/2023 11:08
30	E2300616-006		20230630-030	Perchlorate6850c.lcm	100x		6/30/2023 11:13
31	E2300614-003		20230630-031	Perchlorate6850c.lcm	2000x		6/30/2023 11:19
32	E2300614-005		20230630-032	Perchlorate6850c.lcm	1x		6/30/2023 11:24
33	CCV		20230630-033	Perchlorate6850c.lcm	1x	227251	6/30/2023 11:30

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300610
Project:	HS23061712	**Date Analyzed:**	6/29/23 14:17

Internal Standard Area and RT Summary

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

File ID:	I:\LCMS01\DATA\20230629\20230629-015	**Lab Code:**	EQ2300321-01
Instrument ID:	E-LCMS-01	**Analysis Lot:**	809329
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	263,382	3.62
	Upper Limit ==>	395,073	5.62
	Lower Limit ==>	131,691	1.62
Associated Analyses			
Continuing Calibration Verification	EQ2300321-01	238,012	3.62
Method Blank	EQ2300312-01	348,015	3.62
Duplicate Lab Control Sample	EQ2300312-03	351,322	3.62

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300610
Project:	HS23061712	**Date Analyzed:**	6/29/23 15:17

Internal Standard Area and RT Summary

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

File ID:	I:\LCMS01\DATA\20230629\20230629-026	**Lab Code:**	EQ2300321-02
Instrument ID:	E-LCMS-01	**Analysis Lot:**	809329
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	263,382	3.62
	Upper Limit ==>	395,073	5.62
	Lower Limit ==>	131,691	1.62
Associated Analyses			
Continuing Calibration Verification	EQ2300321-02	239,571	3.62
1824DPTMW05_062223	E2300610-001	216,254	3.62
18CPTMW10SW_062223	E2300610-002	316,422	3.62
18CPTMW10DW_062223	E2300610-003	334,736	3.62
18CPTMW10DW_062223_a	E2300610-004	352,209	3.62

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: HS23061712

Service Request: E2300610
Date Analyzed: 6/29/23 16:21

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

File ID: I:\LCMS01\DATA\20230629\20230629-037
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2300321-03
Analysis Lot: 809329
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	263,382	3.62
	Upper Limit ==>	395,073	5.62
	Lower Limit ==>	131,691	1.62
Associated Analyses			
Continuing Calibration Verification	EQ2300321-03	238,637	3.62
18CPTMW01SW_062223	E2300610-005	323,852	3.62
18CPTMW01DW_062223	E2300610-006	366,305	3.62
MW2_062223	E2300610-007	326,919	3.62
MW1_062223MS	EQ2300312-08	15,064*	3.60
MW1_062223DMS	EQ2300312-09	15,114*	3.62

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300610
Project:	HS23061712	**Date Analyzed:**	6/29/23 17:21

Internal Standard Area and RT Summary

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

File ID:	I:\LCMS01\DATA\20230629\20230629-048	**Lab Code:**	EQ2300321-04
Instrument ID:	E-LCMS-01	**Analysis Lot:**	809329
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	263,382	3.62
	Upper Limit ==>	395,073	5.62
	Lower Limit ==>	131,691	1.62
Associated Analyses			
Continuing Calibration Verification	EQ2300321-04	234,102	3.62

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300610
Project:	HS23061712	**Date Analyzed:**	6/29/23 18:06

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

File ID:	I:\LCMS01\DATA\20230629\20230629-055	**Lab Code:**	EQ2300321-05
Instrument ID:	E-LCMS-01	**Analysis Lot:**	809329
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	263,382	3.62
	Upper Limit ==>	395,073	5.62
	Lower Limit ==>	131,691	1.62
Associated Analyses			
Continuing Calibration Verification	EQ2300321-05	220,393	3.62

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: HS23061712

Service Request: E2300610
Date Analyzed: 6/30/23 08:34

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

File ID: I:\LCMS01\DATA\20230630\20230630-004
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2300322-01
Analysis Lot: 809342
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	263,382	3.62
	Upper Limit ==>	395,073	5.62
	Lower Limit ==>	131,691	1.62
Associated Analyses			
Continuing Calibration Verification	EQ2300322-01	242,810	3.62
MW1_062223	E2300610-008	233,867	3.61
Lab Control Sample	EQ2300312-02	359,941	3.62

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300610
Project:	HS23061712	**Date Analyzed:**	6/30/23 09:47

Internal Standard Area and RT Summary

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

File ID:	I:\LCMS01\DATA\20230630\20230630-015	**Lab Code:**	EQ2300322-02
Instrument ID:	E-LCMS-01	**Analysis Lot:**	809342
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	263,382	3.62
	Upper Limit ==>	395,073	5.62
	Lower Limit ==>	131,691	1.62
Associated Analyses			
Continuing Calibration Verification	EQ2300322-02	257,568	3.63

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300610
Project:	HS23061712	**Date Analyzed:**	6/30/23 10:51

Internal Standard Area and RT Summary

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

File ID:	I:\LCMS01\DATA\20230630\20230630-026	**Lab Code:**	EQ2300322-03
Instrument ID:	E-LCMS-01	**Analysis Lot:**	809342
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	263,382	3.62
	Upper Limit ==>	395,073	5.62
	Lower Limit ==>	131,691	1.62
Associated Analyses			
Continuing Calibration Verification	EQ2300322-03	239,697	3.62

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: HS23061712

Service Request: E2300610
Date Analyzed: 6/30/23 11:30

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

File ID: I:\LCMS01\DATA\20230630\20230630-033
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2300322-04
Analysis Lot: 809342
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	263,382	3.62
	Upper Limit ==>	395,073	5.62
	Lower Limit ==>	131,691	1.62
Associated Analyses			
Continuing Calibration Verification	EQ2300322-04	247,134	3.62

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: HS23061712

Service Request: E2300610
Date Analyzed: 6/29/23

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\20230629\20230629-015

Calibration Date: 6/29/23
Calibration ID: EC2300011
Analysis Lot: 809329
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.5	0.1625	0.1707	5.1	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23061712

Service Request: E2300610
Date Analyzed: 6/29/23

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\20230629\20230629-026

Calibration Date: 6/29/23
Calibration ID: EC2300011
Analysis Lot: 809329
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.4	0.1625	0.1694	4.2	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23061712

Service Request: E2300610
Date Analyzed: 6/29/23

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\20230629\20230629-037

Calibration Date: 6/29/23
Calibration ID: EC2300011
Analysis Lot: 809329
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.4	0.1625	0.1683	3.6	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23061712

Service Request: E2300610
Date Analyzed: 6/29/23

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\20230629\20230629-048

Calibration Date: 6/29/23
Calibration ID: EC2300011
Analysis Lot: 809329
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.5	0.1625	0.1707	5.0	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23061712

Service Request: E2300610
Date Analyzed: 6/29/23

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\20230629\20230629-055

Calibration Date: 6/29/23
Calibration ID: EC2300011
Analysis Lot: 809329
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.6	0.1625	0.1717	5.6	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23061712

Service Request: E2300610
Date Analyzed: 6/30/23

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\20230630\20230630-004

Calibration Date: 6/29/23
Calibration ID: EC2300011
Analysis Lot: 809342
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.1	0.1625	0.1646	1.3	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23061712

Service Request: E2300610
Date Analyzed: 6/30/23

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\20230630\20230630-015

Calibration Date: 6/29/23
Calibration ID: EC2300011
Analysis Lot: 809342
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.5	0.1625	0.1707	5.0	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23061712

Service Request: E2300610
Date Analyzed: 6/30/23

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\20230630\20230630-026

Calibration Date: 6/29/23
Calibration ID: EC2300011
Analysis Lot: 809342
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.7	0.1625	0.1736	6.8	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23061712

Service Request: E2300610
Date Analyzed: 6/30/23

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\20230630\20230630-033

Calibration Date: 6/29/23
Calibration ID: EC2300011
Analysis Lot: 809342
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.6	0.1625	0.1715	5.5	NA	± 15 %	Average RF

Insight Report

Printed at 6/30/2023 9:58:41 AM

Method File: I:\LCMS01\DATA\20230629\20230629.lcm
Project File: I:\LCMS01\DATA\20230628\20230629.damlp

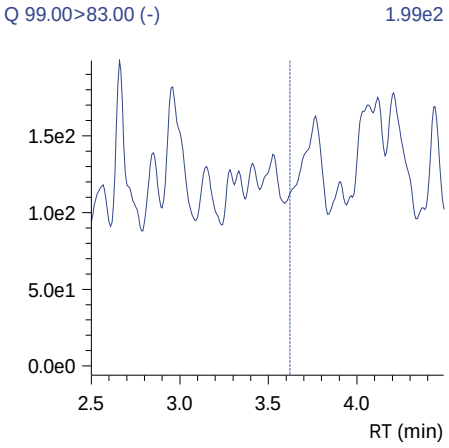
IB

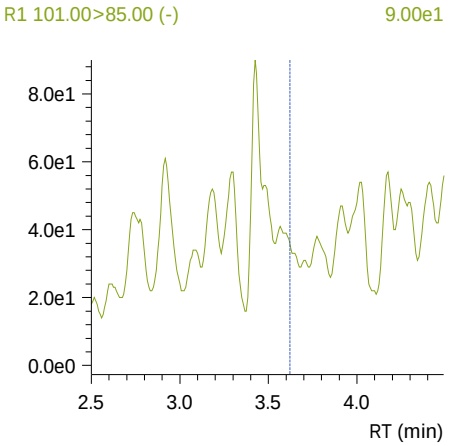
Sample ID: IB
Date Acquired: 6/29/2023 2:00:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-012.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	334149	----	ng/mL	101.00 >85.00	0.00	21.29-39.54
Sodium Perchlorate-18O4_IS	Auto	3.617	334149	334149	1.0000	ng/mL	----	----	

Perchlorate

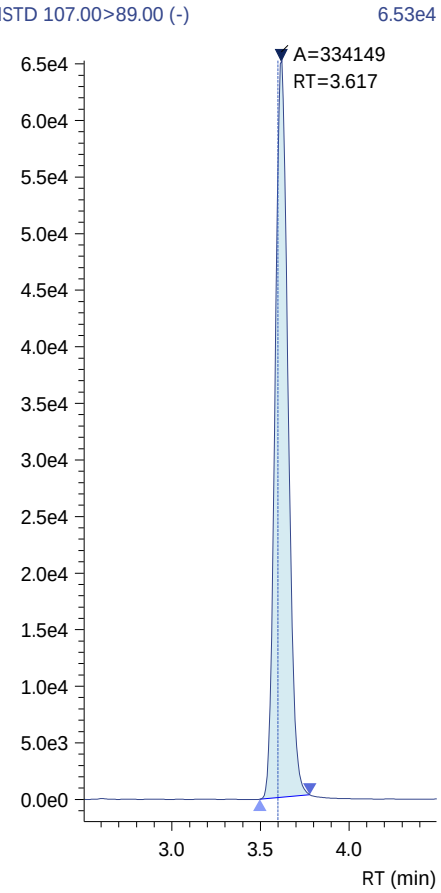
Conc ----
R#1 0.00 (30.41)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 9:58:41 AM

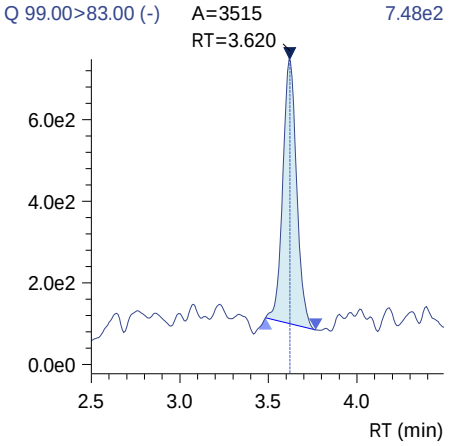
LODV

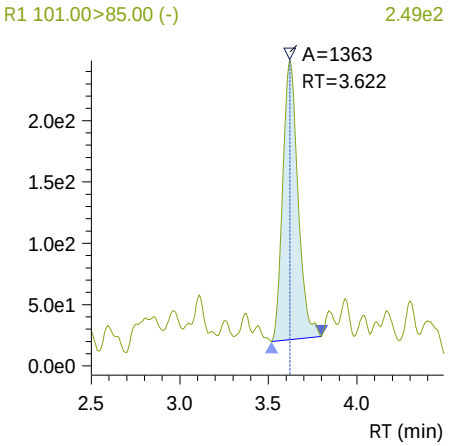
Sample ID: LODV
Date Acquired: 6/29/2023 2:06:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-013.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.620	3515	339644	0.0637	ng/mL	101.00 >85.00	38.76	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.616	339644	339644	1.0000	ng/mL	----	----	

Perchlorate

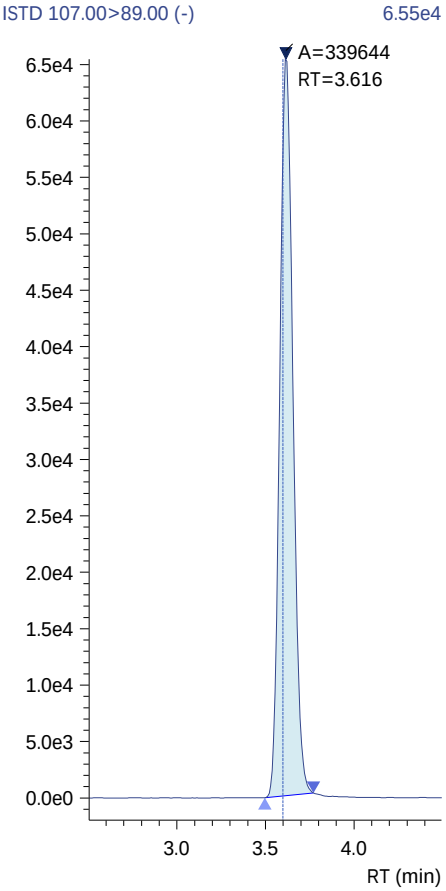
Conc 0.0637
R#1 38.76 (30.41)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 9:58:41 AM

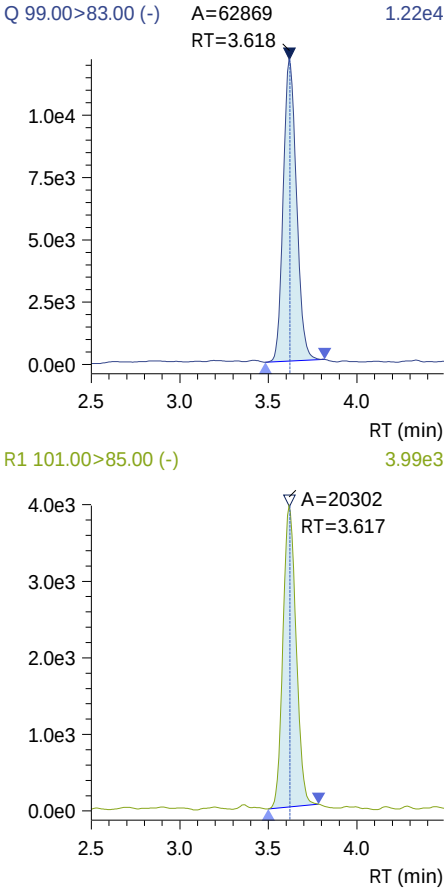
ICS

Sample ID: ICS
Date Acquired: 6/29/2023 2:11:34 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-014.lcd
Vial: 2 | 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	Auto	3.618	62869	368612	1.0495	ng/mL	101.00 >85.00	32.29	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.618	368612	368612	1.0000	ng/mL	----	----	

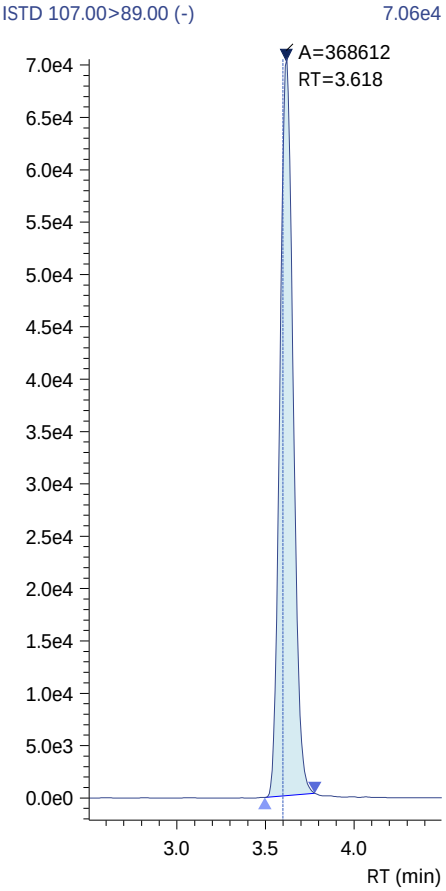
Perchlorate

Conc 1.0495
R#1 32.29 (30.41)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 9:58:41 AM

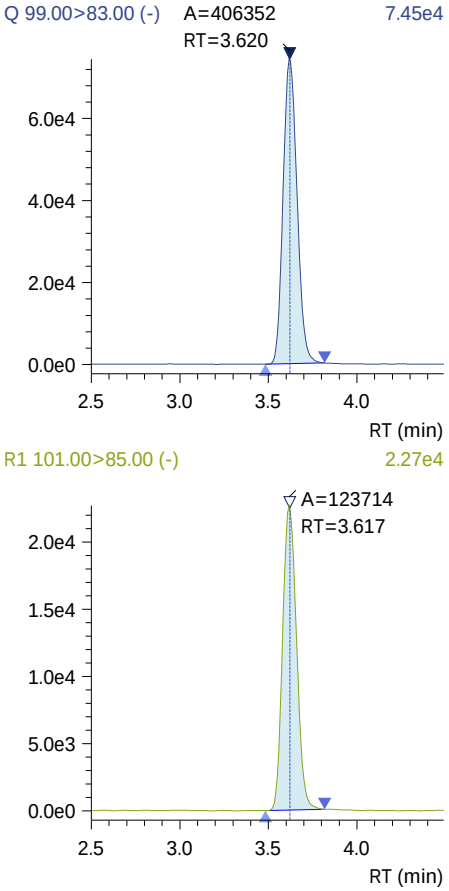
CCV

Sample ID: CCV
Date Acquired: 6/29/2023 2:17:04 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-015.lcd
Vial: 3 | 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	Auto	3.620	406352	238012	10.5053	ng/mL	101.00 >85.00	30.45	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.616	238012	238012	1.0000	ng/mL	----	----	

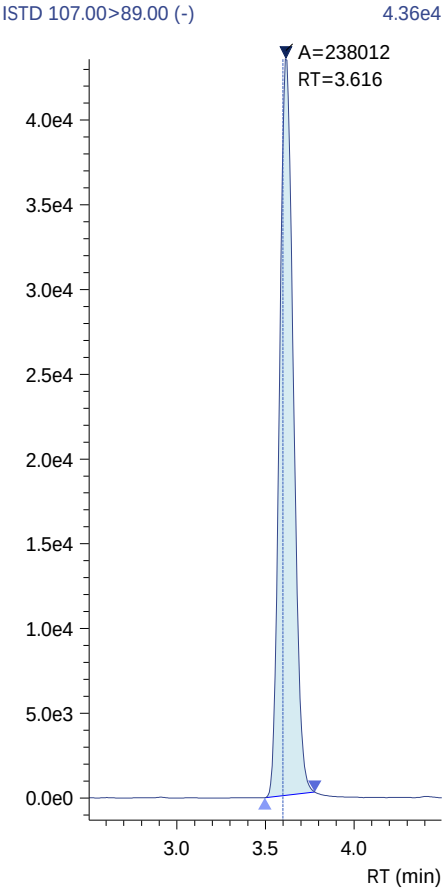
Perchlorate

Conc 10.5053
R#1 30.45 (30.41)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 9:58:41 AM

EQ2300312-01

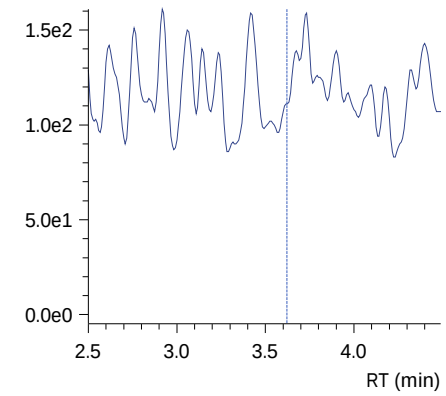
Sample ID: EQ2300312-01
Date Acquired: 6/29/2023 2:22:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-016.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	348015	----	ng/mL	101.00 >85.00	0.00	21.29-39.54
Sodium Perchlorate-18O4_IS	Auto	3.615	348015	348015	1.0000	ng/mL	----	----	

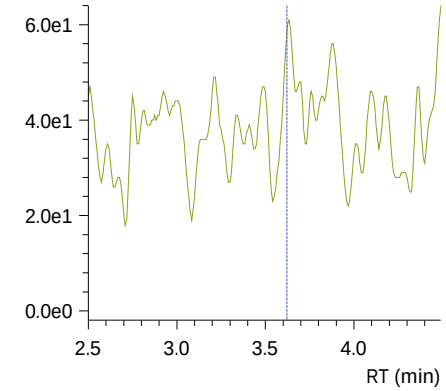
Perchlorate

Conc ----
R#1 0.00 (30.41)

Q 99.00>83.00 (-) 1.61e2



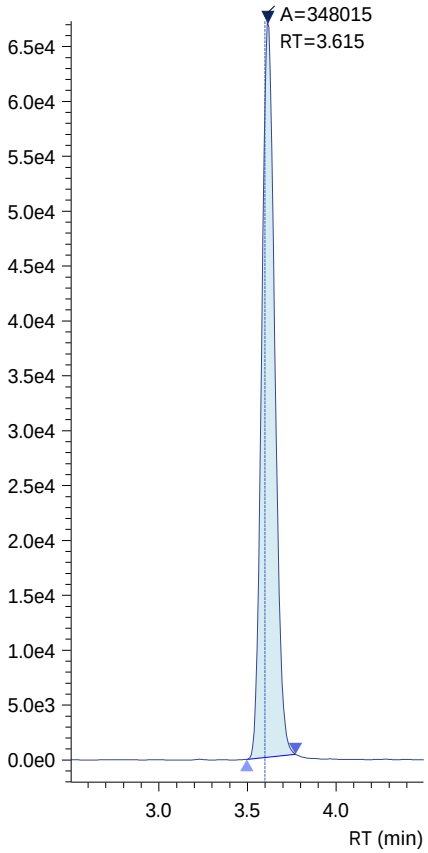
R1 101.00>85.00 (-) 6.40e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.73e4



Insight Report

Printed at 6/30/2023 9:58:41 AM

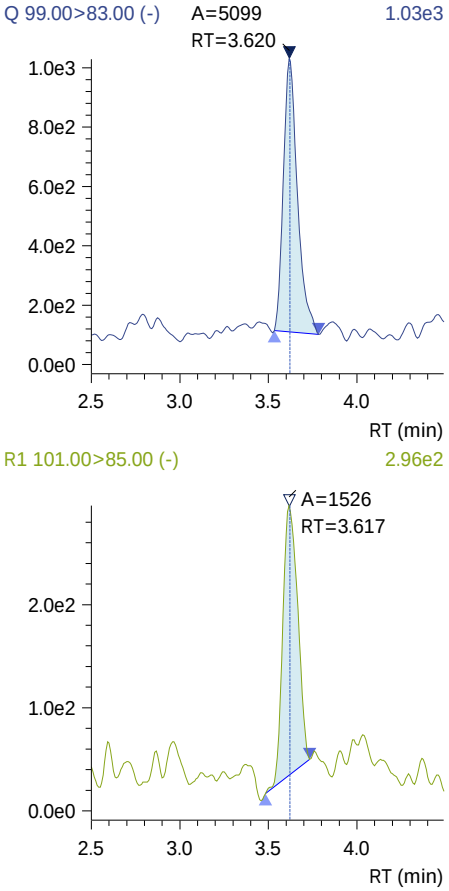
EQ2300312-03

Sample ID: EQ2300312-03
Date Acquired: 6/29/2023 2:33:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-018.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.620	5099	351322	0.0893	ng/mL	101.00 >85.00	29.92	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.616	351322	351322	1.0000	ng/mL	----	----	

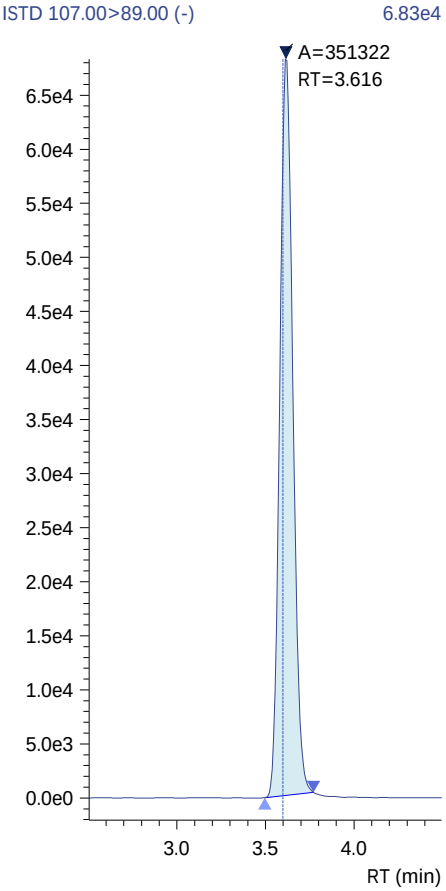
Perchlorate

Conc 0.0893
R#1 29.92 (30.41)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 9:58:41 AM

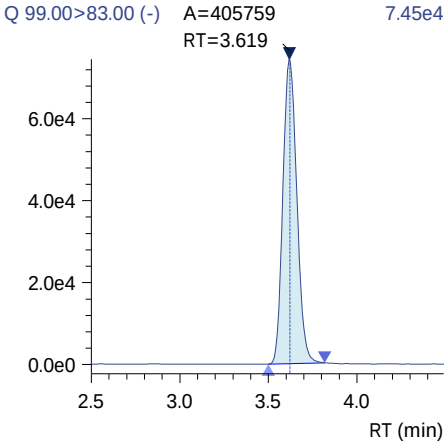
CCV

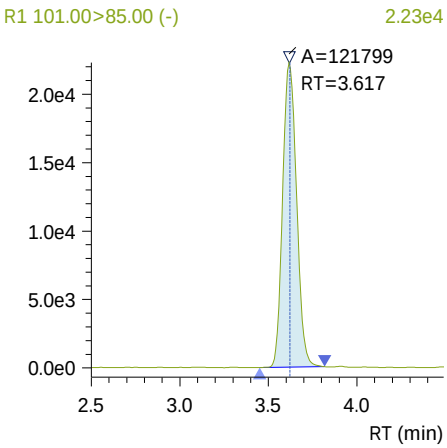
Sample ID: CCV
Date Acquired: 6/29/2023 3:17:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-026.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.619	405759	239571	10.4217	ng/mL	101.00 >85.00	30.02	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.616	239571	239571	1.0000	ng/mL	----	----	

Perchlorate

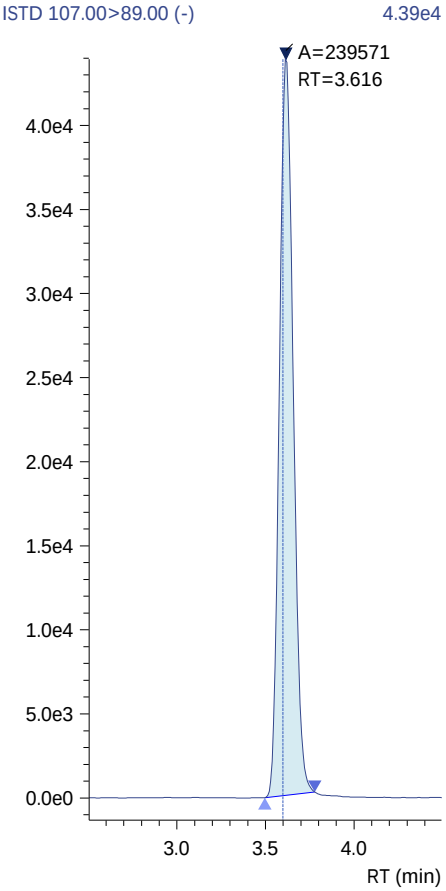
Conc 10.4217
R#1 30.02 (30.41)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 9:58:41 AM

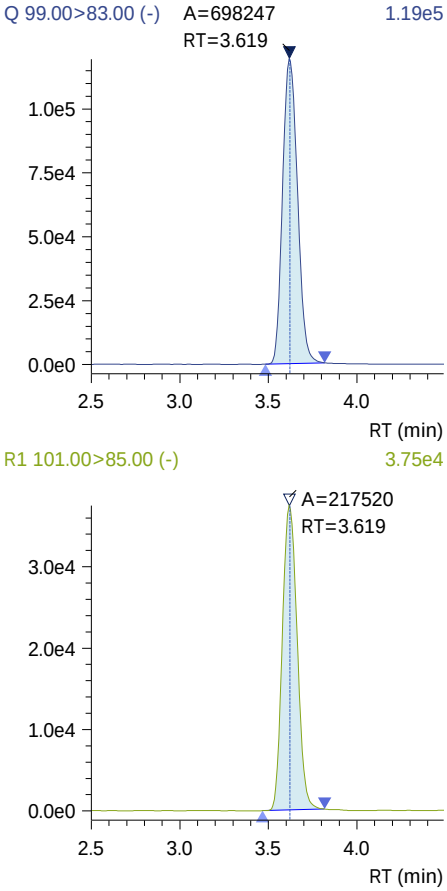
E2300610-001X10K

Sample ID: E2300610-001
Date Acquired: 6/29/2023 3:58:56 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-033.lcd
Vial: 49 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.619	698247	216254	19.8679	ng/mL	101.00 >85.00	31.15	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.615	216254	216254	1.0000	ng/mL	----	----	

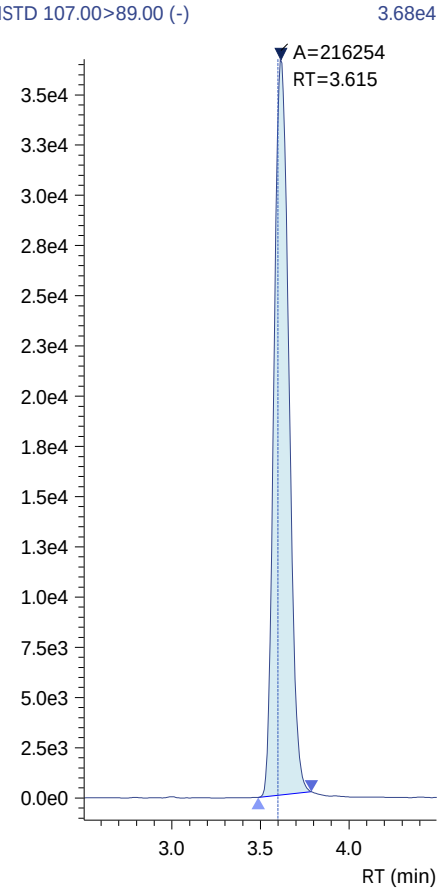
Perchlorate

Conc 19.8679
R#1 31.15 (30.41)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 9:58:41 AM

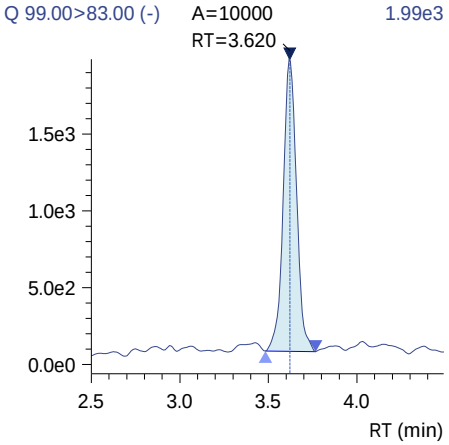
E2300610-002

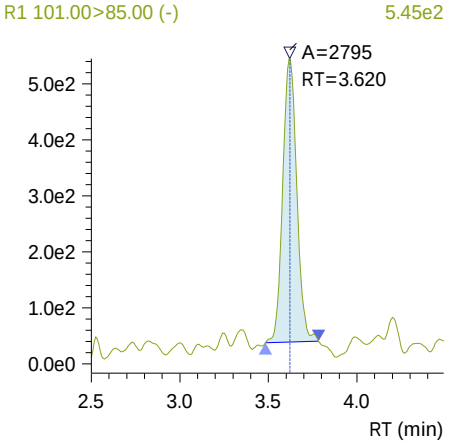
Sample ID: E2300610-002
Date Acquired: 6/29/2023 4:04:28 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-034.lcd
Vial: 50 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.620	10000	316422	0.1945	ng/mL	101.00 >85.00	27.95	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.617	316422	316422	1.0000	ng/mL	----	----	

Perchlorate

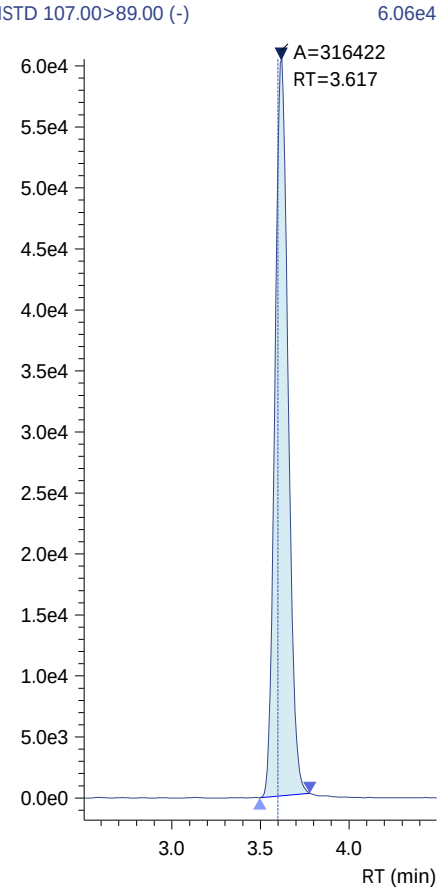
Conc 0.1945
R#1 27.95 (30.41)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 9:58:41 AM

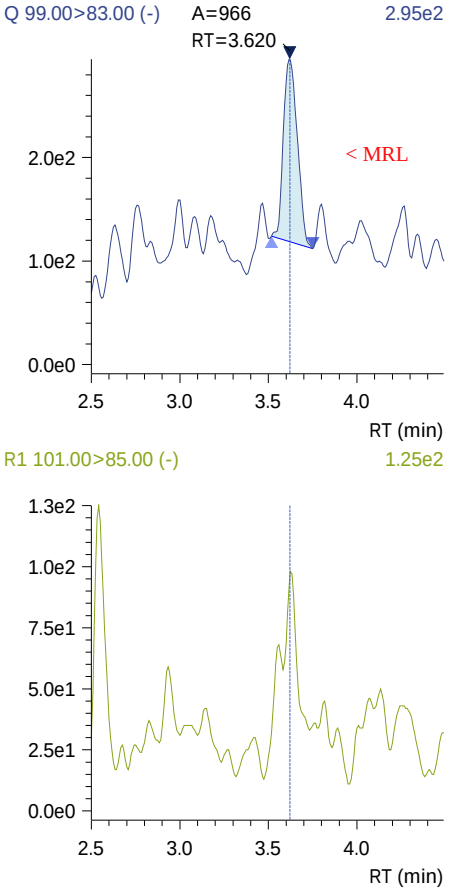
E2300610-003

Sample ID: E2300610-003
Date Acquired: 6/29/2023 4:09:59 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-035.lcd
Vial: 51 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.620	966	334736	0.0178	ng/mL	101.00 >85.00	0.00	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.616	334736	334736	1.0000	ng/mL	----	----	

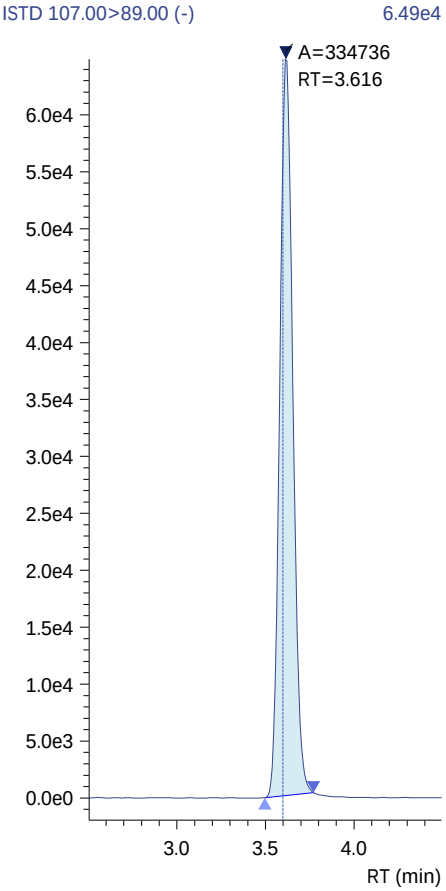
Perchlorate

Conc 0.0178
R#1 0.00 (30.41)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 9:58:41 AM

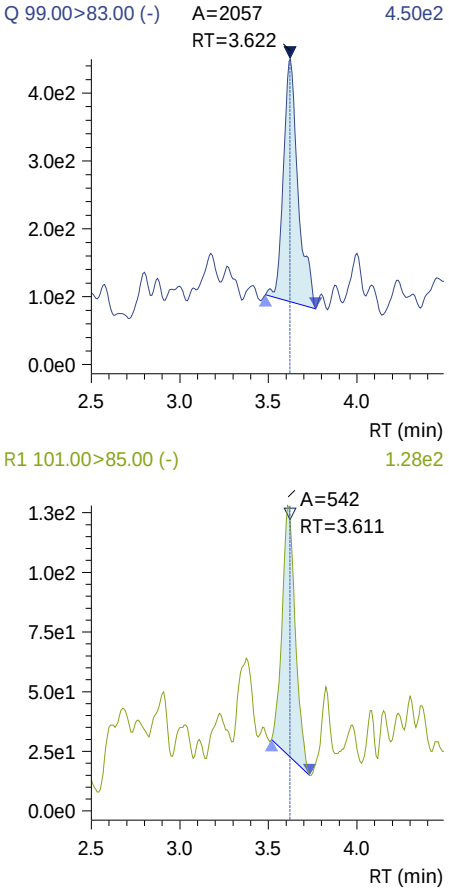
E2300610-004

Sample ID: E2300610-004
Date Acquired: 6/29/2023 4:15:32 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-036.lcd
Vial: 52 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.622	2057	352209	0.0359	ng/mL	101.00 >85.00	26.36	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.617	352209	352209	1.0000	ng/mL	----	----	

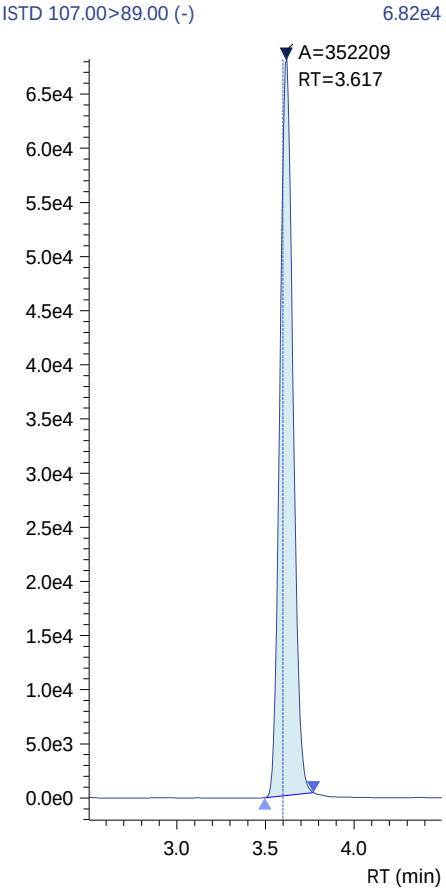
Perchlorate

Conc 0.0359
R#1 26.36 (30.41)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 9:58:41 AM

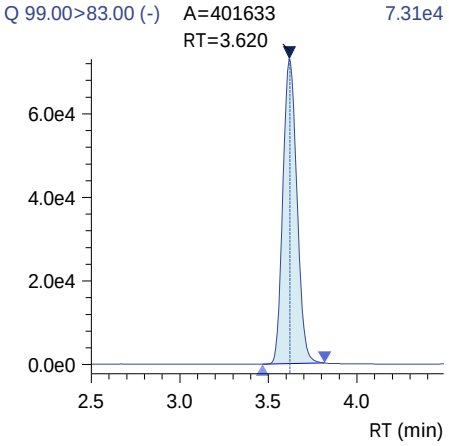
CCV

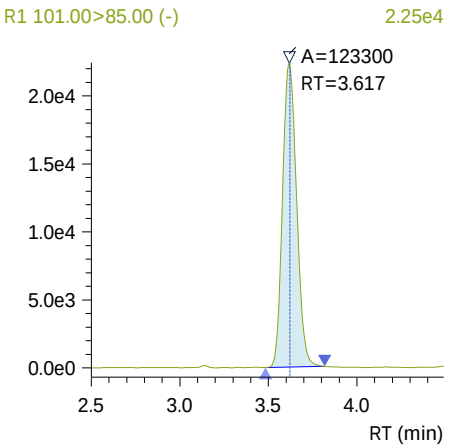
Sample ID: CCV
Date Acquired: 6/29/2023 4:21:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-037.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.620	401633	238637	10.3561	ng/mL	101.00 >85.00	30.70	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.616	238637	238637	1.0000	ng/mL	----	----	

Perchlorate

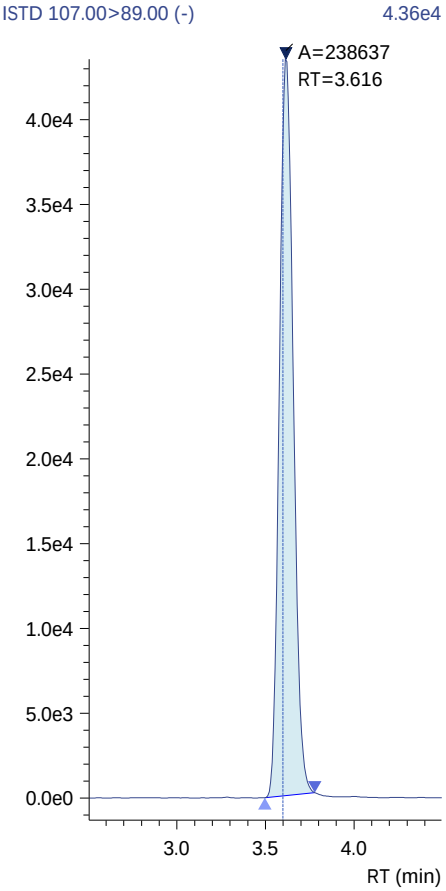
Conc 10.3561
R#1 30.70 (30.41)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 9:58:41 AM

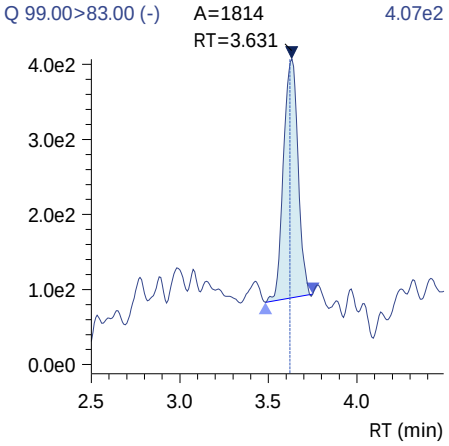
E2300610-005

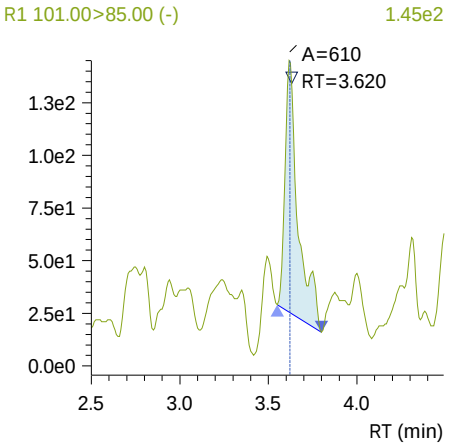
Sample ID: E2300610-005
Date Acquired: 6/29/2023 4:26:34 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-038.lcd
Vial: 53 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.631	1814	323852	0.0345	ng/mL	101.00 >85.00	33.61	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.617	323852	323852	1.0000	ng/mL	----	----	

Perchlorate

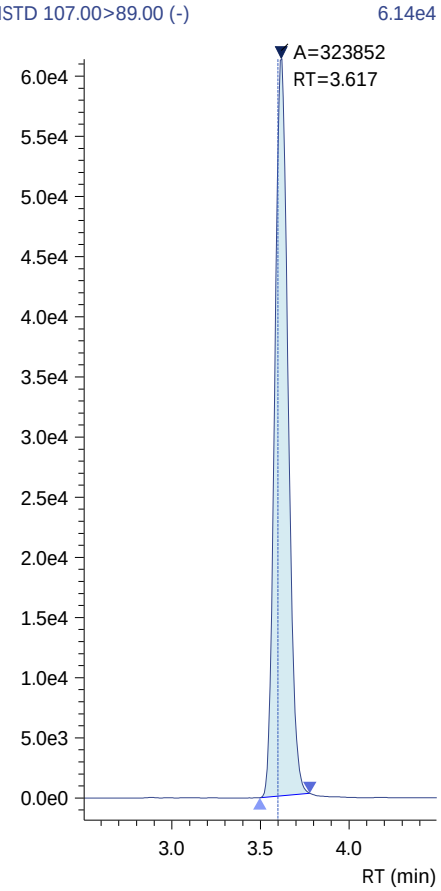
Conc 0.0345
R#1 33.61 (30.41)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 9:58:41 AM

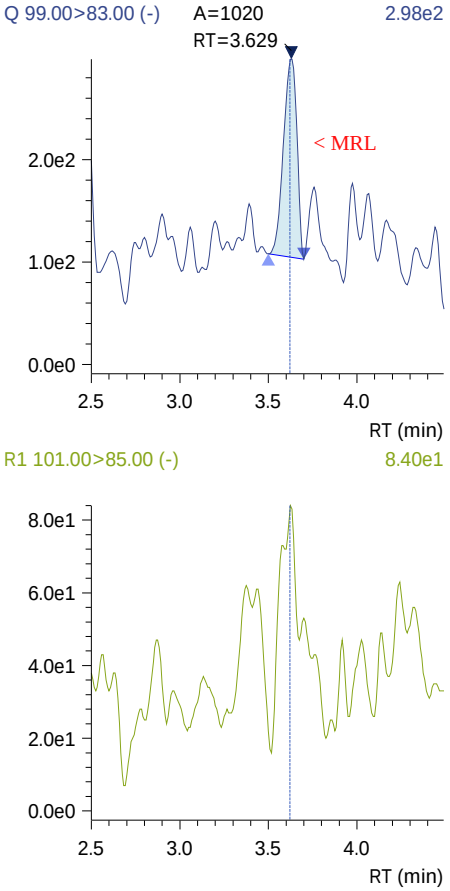
E2300610-006

Sample ID: E2300610-006
Date Acquired: 6/29/2023 4:32:08 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-039.lcd
Vial: 54 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.629	1020	366305	0.0171	ng/mL	101.00 >85.00	0.00	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.616	366305	366305	1.0000	ng/mL	----	----	

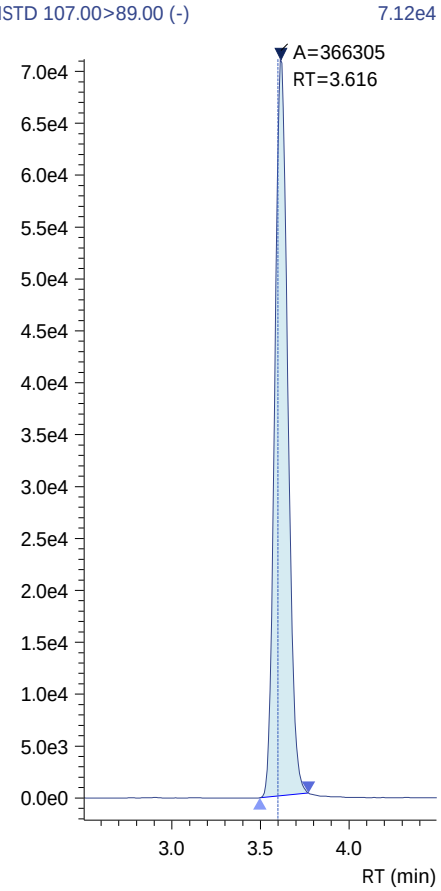
Perchlorate

Conc 0.0171
R#1 0.00 (30.41)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 9:58:41 AM

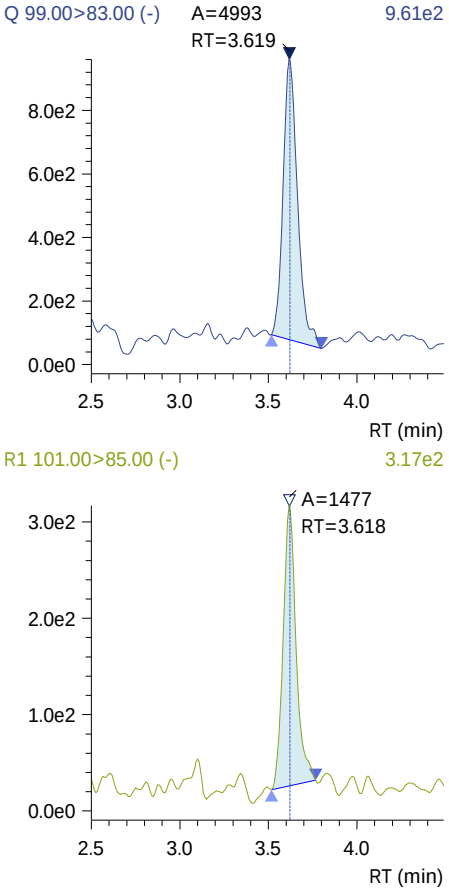
E2300610-007

Sample ID: E2300610-007
Date Acquired: 6/29/2023 4:37:41 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-040.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.619	4993	326919	0.0940	ng/mL	101.00 >85.00	29.57	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.616	326919	326919	1.0000	ng/mL	----	----	

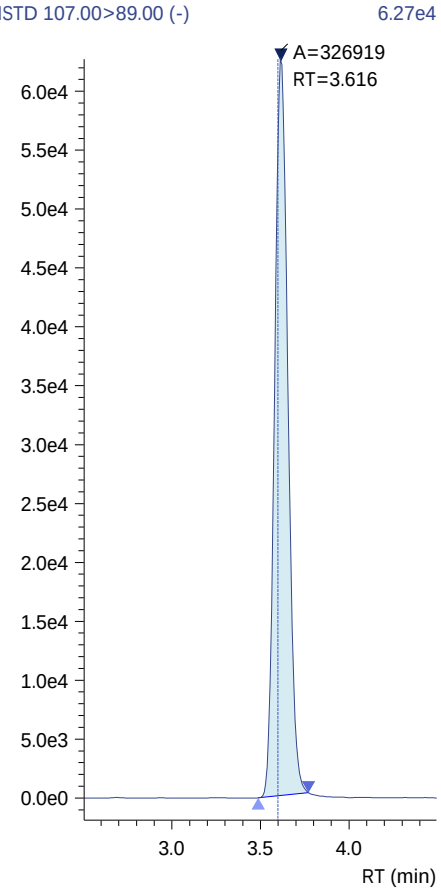
Perchlorate

Conc 0.0940
R#1 29.57 (30.41)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 9:58:41 AM

EQ2300312-08

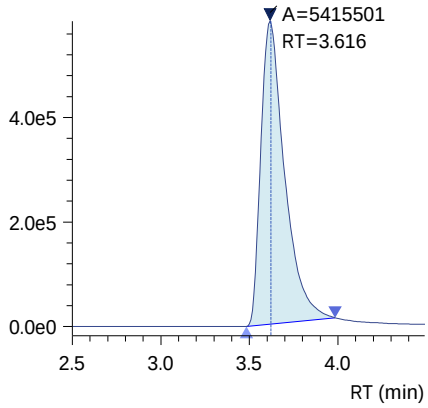
Sample ID: EQ2300312-08
Date Acquired: 6/29/2023 4:48:48 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-042.lcd
Vial: 20 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.616	5415501	15064	2212.0950	ng/mL	101.00 >85.00	30.32	21.29-39.54
Sodium Perchlorate-18O4_IS	Auto	3.602	15064	15064	1.0000	ng/mL	----	----	

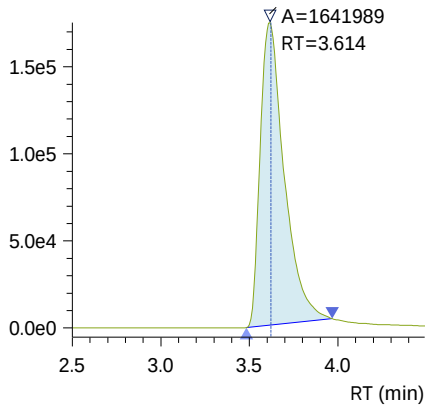
Perchlorate

Conc 2212.0950
R#1 30.32 (30.41)

Q 99.00>83.00 (-) 5.84e5



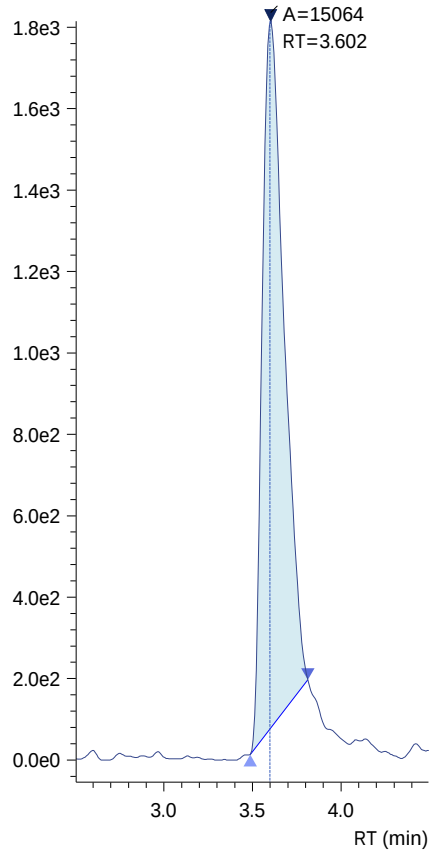
R1 101.00>85.00 (-) 1.75e5



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.82e3



Insight Report

Printed at 6/30/2023 9:58:41 AM

EQ2300312-09

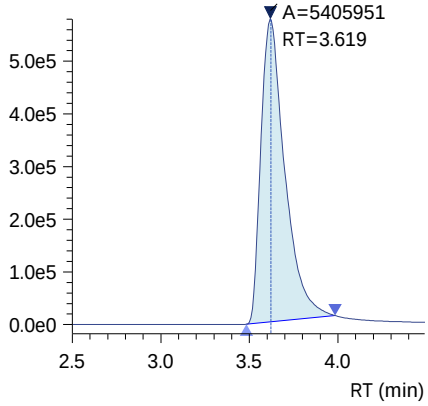
Sample ID: EQ2300312-09
Date Acquired: 6/29/2023 4:54:18 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-043.lcd
Vial: 21 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.619	5405951	15114	2200.8887	ng/mL	101.00 >85.00	30.72	21.29-39.54
Sodium Perchlorate-18O4_IS	Auto	3.623	15114	15114	1.0000	ng/mL	----	----	

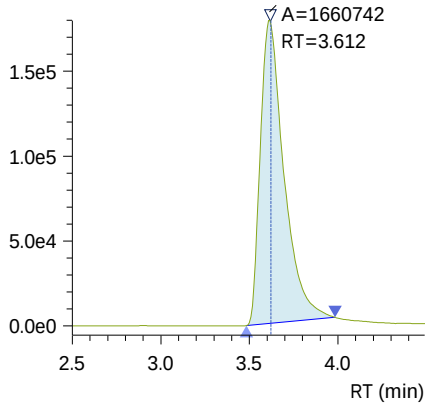
Perchlorate

Conc 2200.8887
R#1 30.72 (30.41)

Q 99.00>83.00 (-) 5.80e5



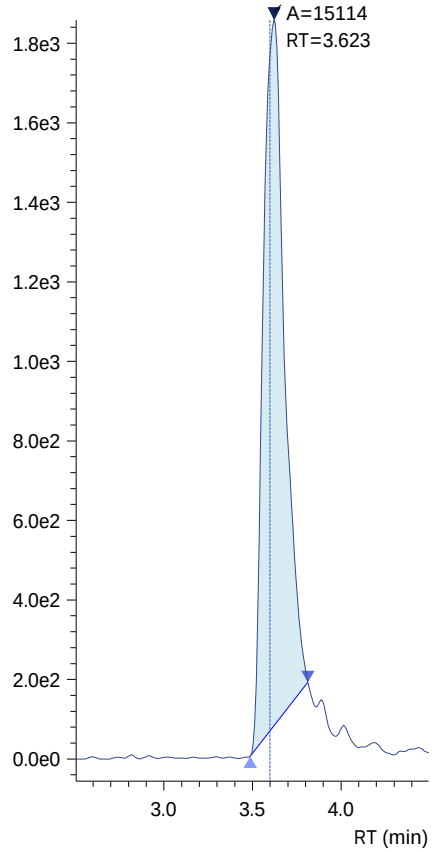
R1 101.00>85.00 (-) 1.80e5



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.86e3



Insight Report

Printed at 6/30/2023 9:58:41 AM

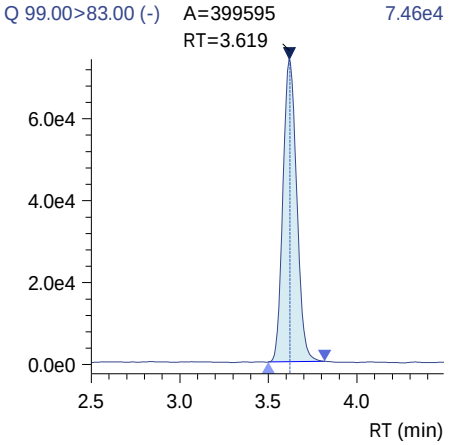
CCV

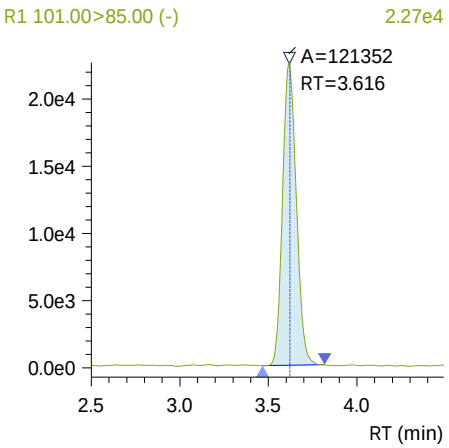
Sample ID: CCV
Date Acquired: 6/29/2023 5:21:54 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-048.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.619	399595	234102	10.5032	ng/mL	101.00 >85.00	30.37	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.615	234102	234102	1.0000	ng/mL	----	----	

Perchlorate

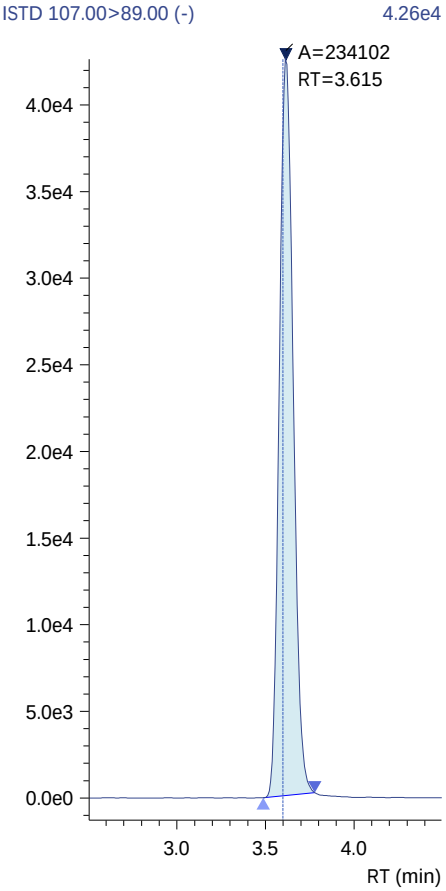
Conc 10.5032
R#1 30.37 (30.41)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 1:10:51 PM

Method File: I:\LCMS01\DATA\20230630\20230630.lcm
Project File: I:\LCMS01\DATA\20230630\20230630.damlp

IB

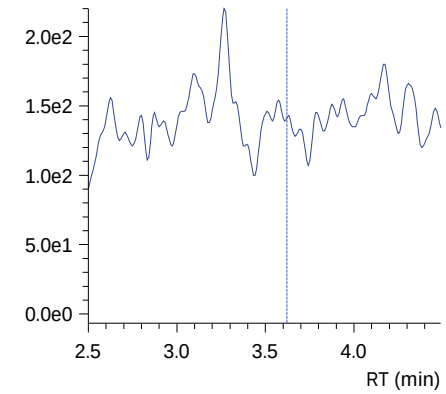
Sample ID: IB
Date Acquired: 6/30/2023 8:18:19 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230630\20230630-001.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	338673	----	ng/mL	101.00 >85.00	0.00	21.78 -40.45
Sodium Perchlorate-18O4_IS	Auto	3.626	338673	338673	1.0000	ng/mL	----	----	

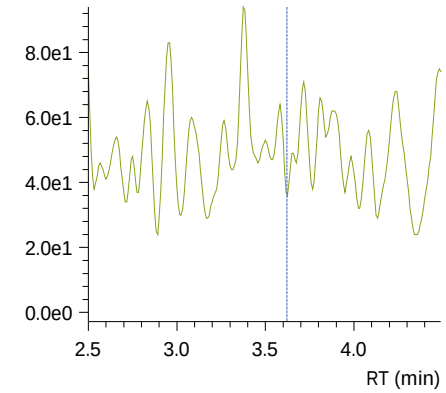
Perchlorate

Conc ----
R#1 0.00 (31.12)

Q 99.00>83.00 (-) 2.20e2



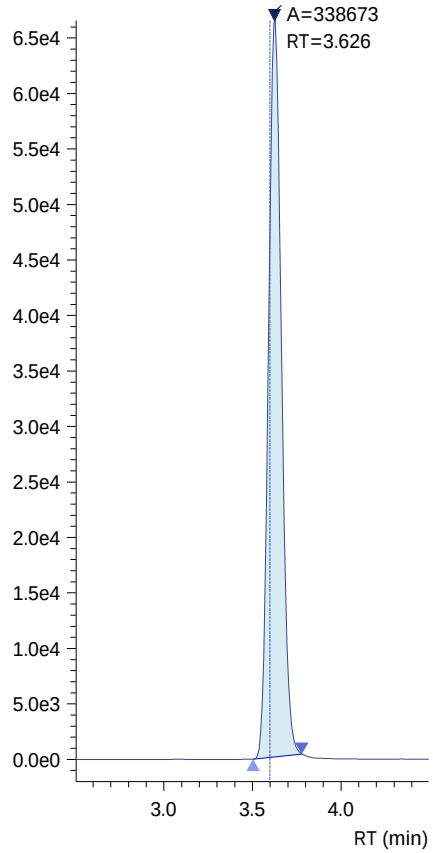
R1 101.00>85.00 (-) 9.40e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.66e4



Insight Report

Printed at 6/30/2023 1:10:51 PM

LODV

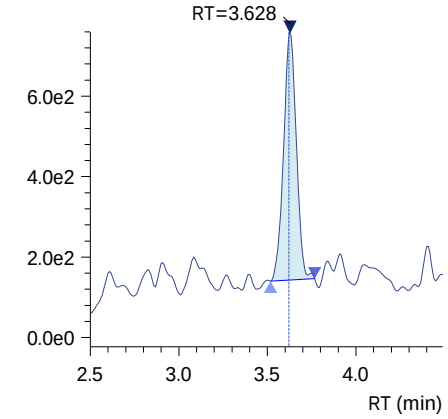
Sample ID: LODV
Date Acquired: 6/30/2023 8:29:21 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230630\20230630-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.628	3077	325731	0.0581	ng /mL	101.00 >85.00	38.34	21.78 -40.45
Sodium Perchlorate-18O4 _IS	Auto	3.621	325731	325731	1.0000	ng /mL	----	----	

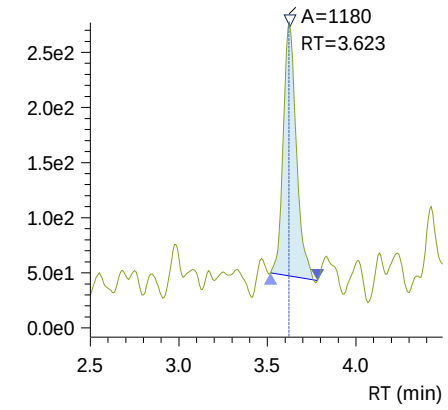
Perchlorate

Conc 0.0581
R#1 38.34 (31.12)

Q 99.00>83.00 (-) A=3077 7.59e2



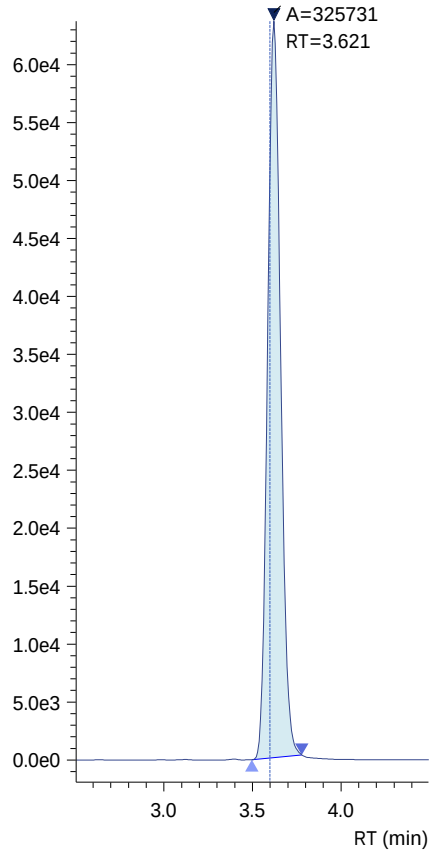
R1 101.00>85.00 (-) 2.77e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.38e4



Insight Report

Printed at 6/30/2023 1:10:51 PM

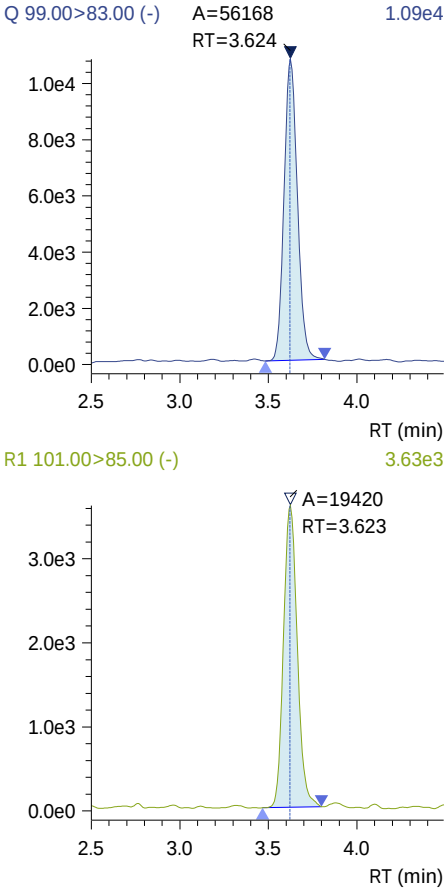
ICS

Sample ID: ICS
Date Acquired: 6/30/2023 8:23:50 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230630\20230630-003.lcd
Vial: 2 | 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	Auto	3.624	56168	340515	1.0150	ng /mL	101.00 >85.00	34.57	21.78 -40.45
Sodium Perchlorate-18O4 _IS	Auto	3.621	340515	340515	1.0000	ng /mL	----	----	

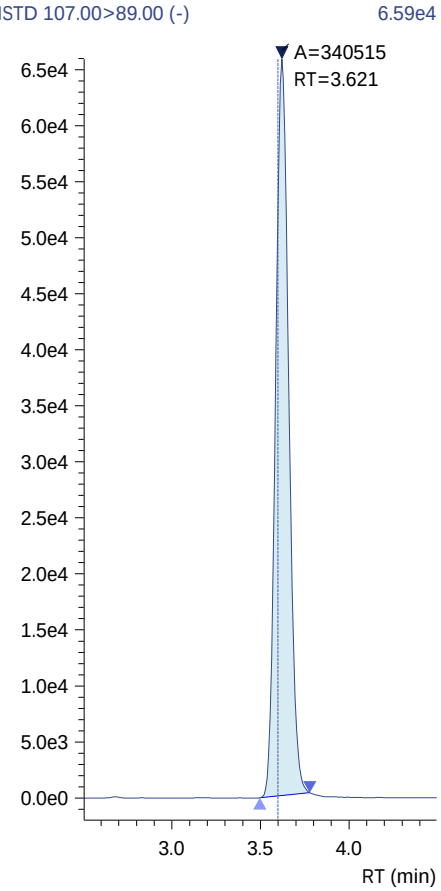
Perchlorate

Conc 1.0150
R#1 34.57 (31.12)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 1:10:51 PM

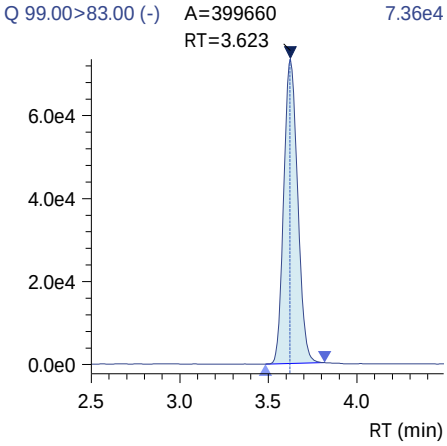
CCV

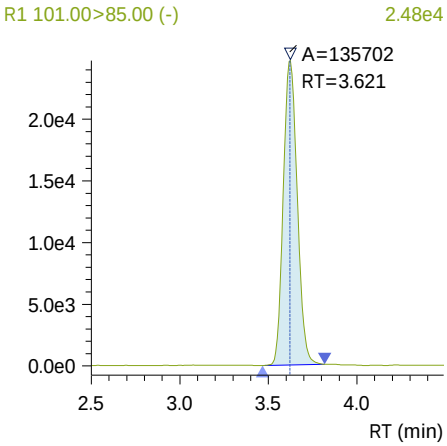
Sample ID: CCV
Date Acquired: 6/30/2023 8:34:53 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230630\20230630-004.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.623	399660	242810	10.1281	ng /mL	101.00 >85.00	33.95	21.78 -40.45
Sodium Perchlorate-18O4_IS	Auto	3.621	242810	242810	1.0000	ng /mL	----	----	

Perchlorate

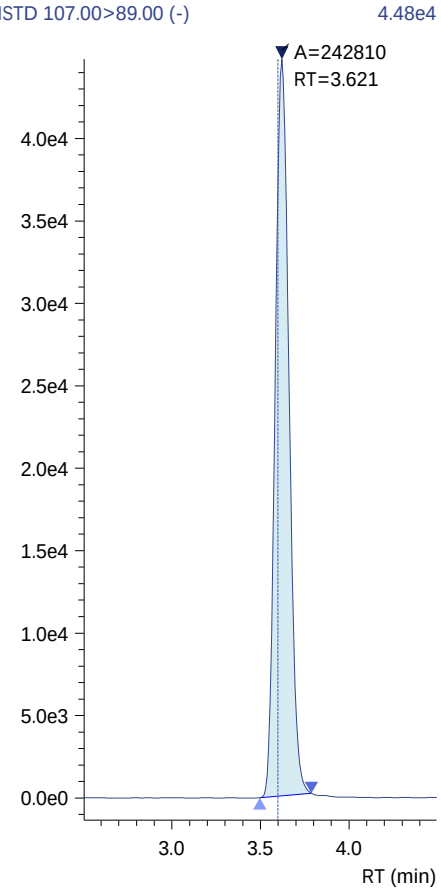
Conc 10.1281
R#1 33.95 (31.12)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 1:10:51 PM

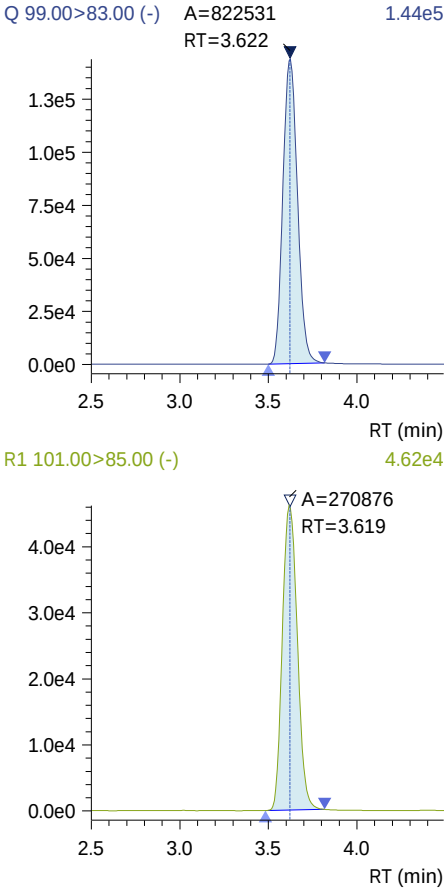
E2300610-008x100

Sample ID: E2300610-008
Date Acquired: 6/30/2023 8:48:49 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230630\20230630-005.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.622	822531	233867	21.6416	ng /mL	101.00 >85.00	32.93	21.78 -40.45
Sodium Perchlorate-18O4_IS	Auto	3.614	233867	233867	1.0000	ng /mL	----	----	

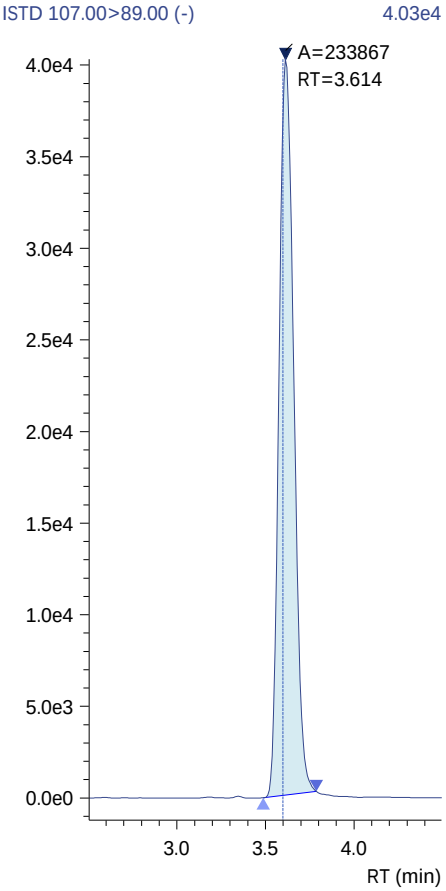
Perchlorate

Conc 21.6416
R#1 32.93 (31.12)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 1:10:51 PM

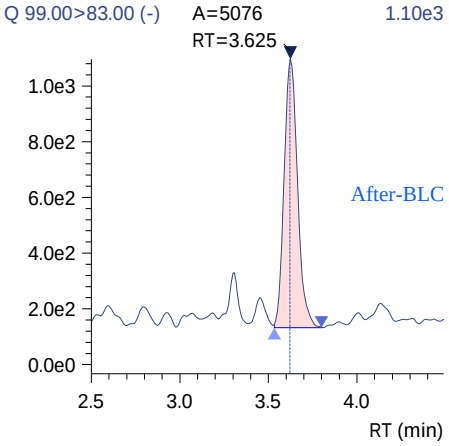
EQ2300312-02

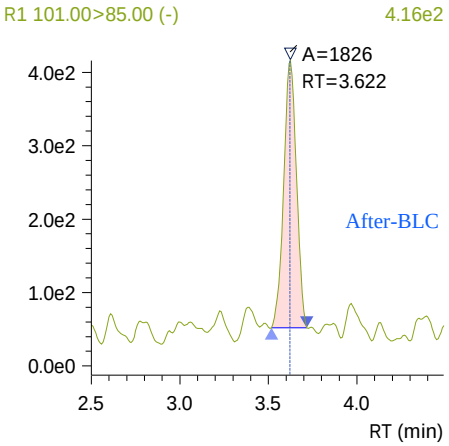
Sample ID: EQ2300312-02
Date Acquired: 6/30/2023 9:12:01 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230630\20230630-009.lcd
Vial: 14 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.625	5076	359941	0.0868	ng /mL	101.00 >85.00	35.98	21.78 -40.45
Sodium Perchlorate-18O4_IS	Auto	3.620	359941	359941	1.0000	ng /mL	----	----	

Perchlorate

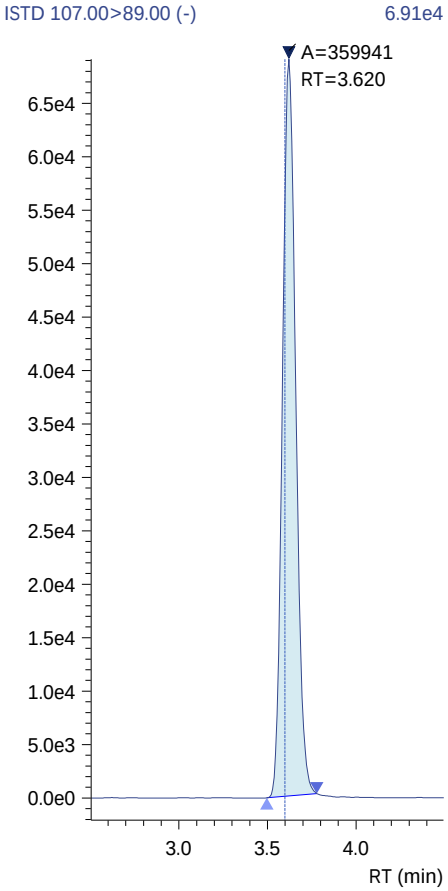
Conc 0.0868
R#1 35.98 (31.12)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 1:11:30 PM

Method File: I:\LCMS01\DATA\20230630\20230630.lcm
Project File: I:\LCMS01\DATA\20230630\20230630.damlp

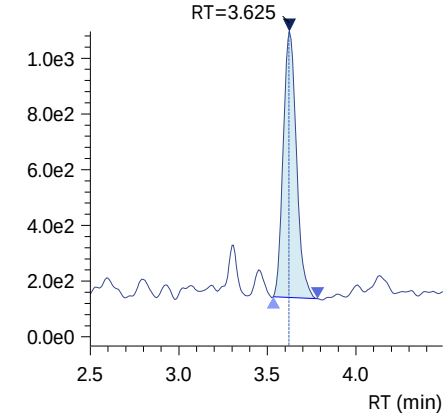
EQ2300312-02

Sample ID: EQ2300312-02
Date Acquired: 6/30/2023 9:12:01 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230630\20230630-009.lcd
Vial: 14 | Inj. Volume: 10.0000uL | Tray: 5

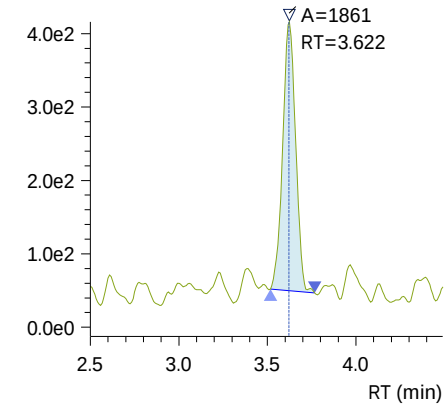
Perchlorate

Conc 0.0848
R#1 37.52 (31.12)

Q 99.00>83.00 (-) A=4960 1.10e3



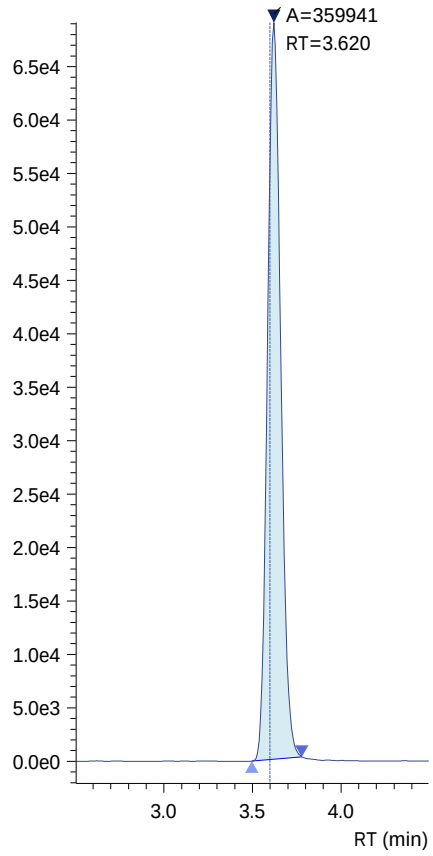
R1 101.00>85.00 (-) 4.16e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.91e4



Insight Report

Printed at 6/30/2023 1:10:51 PM

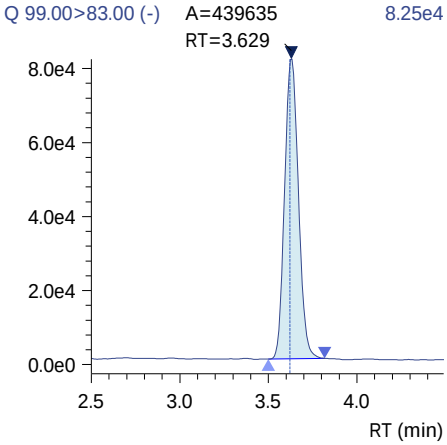
CCV

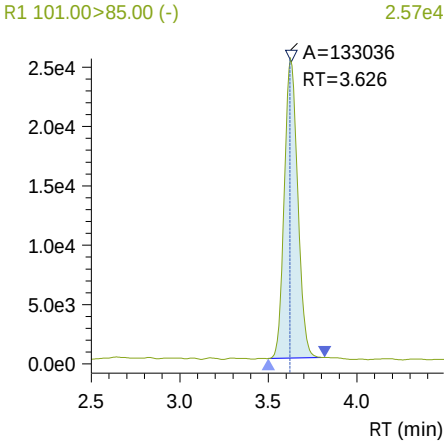
Sample ID: CCV
Date Acquired: 6/30/2023 9:47:37 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230630\20230630-015.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.629	439635	257568	10.5028	ng /mL	101.00 >85.00	30.26	21.78 -40.45
Sodium Perchlorate-18O4_IS	Auto	3.625	257568	257568	1.0000	ng /mL	----	----	

Perchlorate

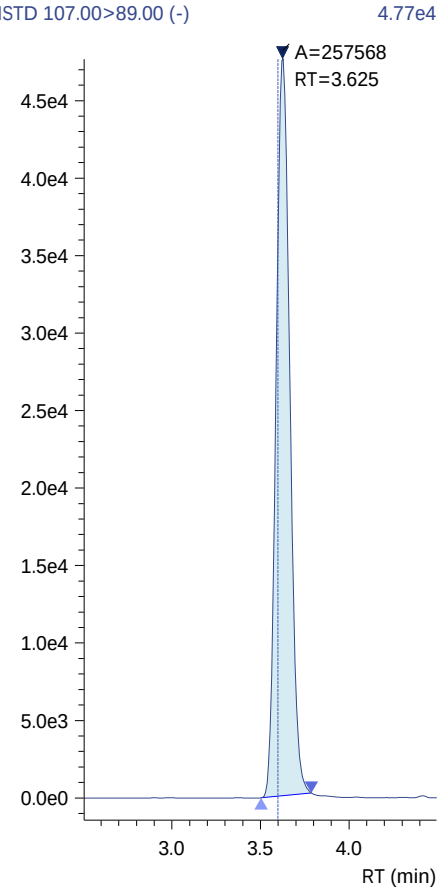
Conc 10.5028
R#1 30.26 (31.12)





Sodium Perchlorate-18O4_IS

Conc 1.0000



HS23061812 LHAAP 18 24 Cover Page

ALS WO# HS23061812

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right solutions.
right partner.

WorkOrder: HS23061812

LHAAP 18 24

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

05-Jul-2023

HS23061812 LHAAP 18 24 Final

ALS WO# HS23061812

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July 21, 2023

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS23061812**

Laboratory Results for: **LHAAP 18 24**

Dear Marcia Olive,

ALS Environmental received 8 sample(s) on Jun 27, 2023 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: DAYNA.FISHER
James Guin

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Work Order: HS23061812

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23061812-01	MW22_062423	Groundwater		24-Jun-2023 12:35	27-Jun-2023 09:40	☐
HS23061812-02	18CPTMW06_062423	Groundwater		24-Jun-2023 10:50	27-Jun-2023 09:40	☐
HS23061812-03	AWD1_062423	Groundwater		24-Jun-2023 08:35	27-Jun-2023 09:40	☐
HS23061812-04	129_062623	Groundwater		26-Jun-2023 13:45	27-Jun-2023 09:40	☐
HS23061812-05	MW6_062623	Groundwater		26-Jun-2023 12:05	27-Jun-2023 09:40	☐
HS23061812-06	MW21_062623	Groundwater		26-Jun-2023 08:50	27-Jun-2023 09:40	☐
HS23061812-07	109_062623	Groundwater		26-Jun-2023 10:40	27-Jun-2023 09:40	☐
HS23061812-08	Trip Blank	Water		24-Jun-2023 00:00	27-Jun-2023 09:40	☐

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: LHAAP 18 24
Work Order: HS23061812

Work Order Comments

- TB received not listed on chain logged with analysis. Sample 18CPTMW06 Vials 2 of 3 & 3 of 3 received broken , MW21 Vial 3 of 3 received broken.

Work Order Comments

- The analysis for Perchlorate was subcontracted to our ALS Houston TX, High Resolution Lab. Final report attached.

GCMS Semivolatiles by Method SW8270SIM

Batch ID: 196920

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GCMS Volatiles by Method SW8260

Batch ID: R440378

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch ID: R440247

Sample ID: 129_062623 (HS23061812-04)

- Lowest practical dilution due to high concentration of non-target compound.

Batch ID: R440138

Sample ID: 109_062623 (HS23061812-07)

- Lowest practical dilution due to high concentration of non-target compound.

Sample ID: CCV-END

- Acetone response for closing CCV failed %D limits

Sample ID: HS23061821-02MSD

- MSD is for an unrelated sample

Metals by Method SW6020A

Batch ID: 197423

Sample ID: HS23061825-05MS

- MS/MSD and DUPs are for an unrelated sample

Metals by Method SW7470A

Batch ID: 197408

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW22_062423
Collection Date: 24-Jun-2023 12:35

ANALYTICAL REPORT
WorkOrder:HS23061812
Lab ID:HS23061812-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	29-Jun-2023 21:31
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	29-Jun-2023 21:31
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	29-Jun-2023 21:31
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	29-Jun-2023 21:31
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	29-Jun-2023 21:31
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	29-Jun-2023 21:31
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	29-Jun-2023 21:31
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	29-Jun-2023 21:31
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	29-Jun-2023 21:31
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	29-Jun-2023 21:31
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	29-Jun-2023 21:31
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	29-Jun-2023 21:31
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	29-Jun-2023 21:31
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	29-Jun-2023 21:31
1,2-Dichloroethane	**7.1**		**0.20**	**0.50**	**1.0**	**ug/L**	1	29-Jun-2023 21:31
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	29-Jun-2023 21:31
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	29-Jun-2023 21:31
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	29-Jun-2023 21:31
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	29-Jun-2023 21:31
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	29-Jun-2023 21:31
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	29-Jun-2023 21:31
2-Butanone	0.50	U	0.50	0.50	2.0	ug/L	1	29-Jun-2023 21:31
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	29-Jun-2023 21:31
2-Hexanone	0.50	U	1.0	0.50	2.0	ug/L	1	29-Jun-2023 21:31
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	29-Jun-2023 21:31
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	29-Jun-2023 21:31
4-Methyl-2-pentanone	0.50	U	0.70	0.50	2.0	ug/L	1	29-Jun-2023 21:31
Acetone	0.50	U	0.40	0.50	2.0	ug/L	1	29-Jun-2023 21:31
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	29-Jun-2023 21:31
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	29-Jun-2023 21:31
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	29-Jun-2023 21:31
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	29-Jun-2023 21:31
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	29-Jun-2023 21:31
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	29-Jun-2023 21:31
Carbon disulfide	0.50	U	0.60	0.50	2.0	ug/L	1	29-Jun-2023 21:31
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	29-Jun-2023 21:31
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	29-Jun-2023 21:31
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	29-Jun-2023 21:31
Chloroform	**2.5**		**0.20**	**0.50**	**1.0**	**ug/L**	1	29-Jun-2023 21:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW22_062423
Collection Date: 24-Jun-2023 12:35

ANALYTICAL REPORT
WorkOrder:HS23061812
Lab ID:HS23061812-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	29-Jun-2023 21:31
cis-1,2-Dichloroethene	**4.1**		**0.20**	**0.50**	**1.0**	**ug/L**	1	29-Jun-2023 21:31
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	29-Jun-2023 21:31
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	29-Jun-2023 21:31
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	29-Jun-2023 21:31
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	29-Jun-2023 21:31
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	29-Jun-2023 21:31
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	29-Jun-2023 21:31
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	29-Jun-2023 21:31
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	29-Jun-2023 21:31
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	29-Jun-2023 21:31
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	29-Jun-2023 21:31
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	29-Jun-2023 21:31
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	29-Jun-2023 21:31
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	29-Jun-2023 21:31
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	29-Jun-2023 21:31
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	29-Jun-2023 21:31
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	29-Jun-2023 21:31
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	29-Jun-2023 21:31
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	29-Jun-2023 21:31
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	29-Jun-2023 21:31
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	29-Jun-2023 21:31
Trichloroethene	**320**		**1.0**	**2.5**	**5.0**	**ug/L**	5	30-Jun-2023 13:35
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	29-Jun-2023 21:31
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	29-Jun-2023 21:31
Surr: 1,2-Dichloroethane-d4	*105*			**0**	*81-118*	*%REC*	*1*	*29-Jun-2023 21:31*
Surr: 1,2-Dichloroethane-d4	*103*			**0**	*81-118*	*%REC*	*5*	*30-Jun-2023 13:35*
Surr: 4-Bromofluorobenzene	*92.4*			**0**	*85-114*	*%REC*	*1*	*29-Jun-2023 21:31*
Surr: 4-Bromofluorobenzene	*94.8*			**0**	*85-114*	*%REC*	*5*	*30-Jun-2023 13:35*
Surr: Dibromofluoromethane	*101*			**0**	*80-119*	*%REC*	*1*	*29-Jun-2023 21:31*
Surr: Dibromofluoromethane	*100*			**0**	*80-119*	*%REC*	*5*	*30-Jun-2023 13:35*
Surr: Toluene-d8	*107*			**0**	*89-112*	*%REC*	*1*	*29-Jun-2023 21:31*
Surr: Toluene-d8	*108*			**0**	*89-112*	*%REC*	*5*	*30-Jun-2023 13:35*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW22_062423
Collection Date: 24-Jun-2023 12:35

ANALYTICAL REPORT
WorkOrder:HS23061812
Lab ID:HS23061812-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 11-Jul-2023		Analyst: JC
Aluminum	**0.00626**	J	**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	12-Jul-2023 21:46
Antimony	**0.000465**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	12-Jul-2023 21:46
Arsenic	**0.000631**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	12-Jul-2023 21:46
Barium	**0.542**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	12-Jul-2023 21:46
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	12-Jul-2023 21:46
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	12-Jul-2023 21:46
Calcium	**66.9**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	12-Jul-2023 21:46
Chromium	**0.131**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	12-Jul-2023 21:46
Cobalt	**0.00169**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	12-Jul-2023 21:46
Copper	**0.00296**	J	**0.00100**	**0.00250**	**0.00500**	**mg/L**	1	12-Jul-2023 21:46
Iron	**3.99**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	12-Jul-2023 21:46
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	12-Jul-2023 21:46
Magnesium	**21.8**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	12-Jul-2023 21:46
Manganese	**0.0115**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	12-Jul-2023 21:46
Nickel	**0.507**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	12-Jul-2023 21:46
Potassium	**1.78**		**0.0180**	**1.00**	**0.200**	**mg/L**	1	12-Jul-2023 21:46
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	12-Jul-2023 21:46
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	12-Jul-2023 21:46
Sodium	**321**		**0.280**	**1.00**	**4.00**	**mg/L**	20	13-Jul-2023 12:30
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	12-Jul-2023 21:46
Vanadium	**0.000717**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	12-Jul-2023 21:46
Zinc	0.00250	U	0.00200	0.00250	0.00500	mg/L	1	12-Jul-2023 21:46
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 11-Jul-2023		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	11-Jul-2023 14:03
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	21-Jul-2023 12:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18CPTMW06_062423
Collection Date: 24-Jun-2023 10:50

ANALYTICAL REPORT
WorkOrder:HS23061812
Lab ID:HS23061812-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 16:51
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 16:51
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	28-Jun-2023 16:51
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 16:51
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	28-Jun-2023 16:51
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 16:51
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	28-Jun-2023 16:51
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	28-Jun-2023 16:51
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	28-Jun-2023 16:51
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	28-Jun-2023 16:51
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	28-Jun-2023 16:51
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 16:51
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	28-Jun-2023 16:51
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	28-Jun-2023 16:51
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	28-Jun-2023 16:51
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	28-Jun-2023 16:51
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 16:51
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	28-Jun-2023 16:51
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 16:51
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	28-Jun-2023 16:51
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 16:51
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	28-Jun-2023 16:51
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 16:51
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	28-Jun-2023 16:51
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	28-Jun-2023 16:51
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	28-Jun-2023 16:51
4-Methyl-2-pentanone	0.50	U	0.70	0.50	2.0	ug/L	1	28-Jun-2023 16:51
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	28-Jun-2023 16:51
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 16:51
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	28-Jun-2023 16:51
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 16:51
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	28-Jun-2023 16:51
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	28-Jun-2023 16:51
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	28-Jun-2023 16:51
Carbon disulfide	0.50	U	0.60	0.50	2.0	ug/L	1	28-Jun-2023 16:51
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	28-Jun-2023 16:51
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	28-Jun-2023 16:51
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 16:51
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	28-Jun-2023 16:51

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18CPTMW06_062423
Collection Date: 24-Jun-2023 10:50

ANALYTICAL REPORT
WorkOrder:HS23061812
Lab ID:HS23061812-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 16:51
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	28-Jun-2023 16:51
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 16:51
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	28-Jun-2023 16:51
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 16:51
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	28-Jun-2023 16:51
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 16:51
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	28-Jun-2023 16:51
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 16:51
m,p-Xylene	2.0	U	0.50	2.0	2.0	ug/L	1	28-Jun-2023 16:51
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	28-Jun-2023 16:51
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	28-Jun-2023 16:51
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 16:51
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	28-Jun-2023 16:51
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 16:51
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	28-Jun-2023 16:51
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 16:51
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	28-Jun-2023 16:51
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 16:51
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	28-Jun-2023 16:51
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 16:51
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	28-Jun-2023 16:51
Trichloroethene	**6.5**		**0.20**	**0.50**	**1.0**	**ug/L**	1	28-Jun-2023 16:51
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	28-Jun-2023 16:51
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 16:51
Surr: 1,2-Dichloroethane-d4	*83.1*			**0**	*81-118*	*%REC*	*1*	*28-Jun-2023 16:51*
Surr: 4-Bromofluorobenzene	*95.3*			**0**	*85-114*	*%REC*	*1*	*28-Jun-2023 16:51*
Surr: Dibromofluoromethane	*90.1*			**0**	*80-119*	*%REC*	*1*	*28-Jun-2023 16:51*
Surr: Toluene-d8	*103*			**0**	*89-112*	*%REC*	*1*	*28-Jun-2023 16:51*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 29-Jun-2023		Analyst: JL
1,4-Dioxane	**0.020**		**0.010**	**0.0050**	**0.010**	**ug/L**	1	05-Jul-2023 14:56
Surr: 2-Fluorobiphenyl	*101*			**0**	*40-140*	*%REC*	*1*	*05-Jul-2023 14:56*
Surr: 4-Terphenyl-d14	*107*			**0**	*40-140*	*%REC*	*1*	*05-Jul-2023 14:56*
Surr: Nitrobenzene-d5	*103*			**0**	*40-140*	*%REC*	*1*	*05-Jul-2023 14:56*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	21-Jul-2023 12:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: AWD1_062423
Collection Date: 24-Jun-2023 08:35

ANALYTICAL REPORT
WorkOrder:HS23061812
Lab ID:HS23061812-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES SIM	**Method:SW8270SIM**					Prep:SW3510 / 29-Jun-2023		Analyst: JL
1,4-Dioxane	**1.1**		**0.10**	**0.050**	**0.10**	**ug/L**	10	05-Jul-2023 16:27
Surr: 2-Fluorobiphenyl	*121*			**0**	*40-140*	*%REC*	*10*	*05-Jul-2023 16:27*
Surr: 4-Terphenyl-d14	*119*			**0**	*40-140*	*%REC*	*10*	*05-Jul-2023 16:27*
Surr: Nitrobenzene-d5	*121*			**0**	*40-140*	*%REC*	*10*	*05-Jul-2023 16:27*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 129_062623
Collection Date: 26-Jun-2023 13:45

ANALYTICAL REPORT
WorkOrder:HS23061812
Lab ID:HS23061812-04
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	2.5	U	1.5	2.5	5.0	ug/L	5	29-Jun-2023 17:25
1,1,1-Trichloroethane	2.5	U	1.0	2.5	5.0	ug/L	5	29-Jun-2023 17:25
1,1,2,2-Tetrachloroethane	2.5	U	2.5	2.5	5.0	ug/L	5	29-Jun-2023 17:25
1,1,2-Trichloroethane	2.5	U	1.5	2.5	5.0	ug/L	5	29-Jun-2023 17:25
1,1-Dichloroethane	2.5	U	1.0	2.5	5.0	ug/L	5	29-Jun-2023 17:25
1,1-Dichloroethene	2.5	U	1.0	2.5	5.0	ug/L	5	29-Jun-2023 17:25
1,1-Dichloropropene	2.5	U	1.5	2.5	5.0	ug/L	5	29-Jun-2023 17:25
1,2,3-Trichlorobenzene	2.5	U	2.0	2.5	5.0	ug/L	5	29-Jun-2023 17:25
1,2,3-Trichloropropane	2.5	U	2.5	2.5	5.0	ug/L	5	29-Jun-2023 17:25
1,2,4-Trichlorobenzene	2.5	U	2.5	2.5	5.0	ug/L	5	29-Jun-2023 17:25
1,2,4-Trimethylbenzene	2.5	U	1.5	2.5	5.0	ug/L	5	29-Jun-2023 17:25
1,2-Dibromo-3-chloropropane	2.5	U	1.0	2.5	5.0	ug/L	5	29-Jun-2023 17:25
1,2-Dibromoethane	2.5	U	1.0	2.5	5.0	ug/L	5	29-Jun-2023 17:25
1,2-Dichlorobenzene	2.5	U	2.5	2.5	5.0	ug/L	5	29-Jun-2023 17:25
1,2-Dichloroethane	**9.1**		**1.0**	**2.5**	**5.0**	**ug/L**	5	29-Jun-2023 17:25
1,2-Dichloropropane	2.5	U	2.5	2.5	5.0	ug/L	5	29-Jun-2023 17:25
1,3,5-Trimethylbenzene	2.5	U	1.5	2.5	5.0	ug/L	5	29-Jun-2023 17:25
1,3-Dichlorobenzene	2.5	U	2.0	2.5	5.0	ug/L	5	29-Jun-2023 17:25
1,3-Dichloropropane	2.5	U	1.5	2.5	5.0	ug/L	5	29-Jun-2023 17:25
1,4-Dichlorobenzene	2.5	U	2.0	2.5	5.0	ug/L	5	29-Jun-2023 17:25
2,2-Dichloropropane	2.5	U	1.0	2.5	5.0	ug/L	5	29-Jun-2023 17:25
2-Butanone	2.5	U	2.5	2.5	10	ug/L	5	29-Jun-2023 17:25
2-Chlorotoluene	2.5	U	1.5	2.5	5.0	ug/L	5	29-Jun-2023 17:25
2-Hexanone	2.5	U	5.0	2.5	10	ug/L	5	29-Jun-2023 17:25
4-Chlorotoluene	2.5	U	2.0	2.5	5.0	ug/L	5	29-Jun-2023 17:25
4-Isopropyltoluene	2.5	U	1.5	2.5	5.0	ug/L	5	29-Jun-2023 17:25
4-Methyl-2-pentanone	2.5	U	3.5	2.5	10	ug/L	5	29-Jun-2023 17:25
Acetone	2.5	U	2.0	2.5	10	ug/L	5	29-Jun-2023 17:25
Benzene	2.5	U	1.0	2.5	5.0	ug/L	5	29-Jun-2023 17:25
Bromobenzene	2.5	U	2.0	2.5	5.0	ug/L	5	29-Jun-2023 17:25
Bromochloromethane	2.5	U	1.0	2.5	5.0	ug/L	5	29-Jun-2023 17:25
Bromodichloromethane	2.5	U	1.0	2.5	5.0	ug/L	5	29-Jun-2023 17:25
Bromoform	2.5	U	2.0	2.5	5.0	ug/L	5	29-Jun-2023 17:25
Bromomethane	2.5	U	2.0	2.5	5.0	ug/L	5	29-Jun-2023 17:25
Carbon disulfide	2.5	U	3.0	2.5	10	ug/L	5	29-Jun-2023 17:25
Carbon tetrachloride	2.5	U	2.5	2.5	5.0	ug/L	5	29-Jun-2023 17:25
Chlorobenzene	2.5	U	1.5	2.5	5.0	ug/L	5	29-Jun-2023 17:25
Chloroethane	2.5	U	1.5	2.5	5.0	ug/L	5	29-Jun-2023 17:25
Chloroform	**4.2**	J	**1.0**	**2.5**	**5.0**	**ug/L**	5	29-Jun-2023 17:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 129_062623
Collection Date: 26-Jun-2023 13:45

ANALYTICAL REPORT
WorkOrder:HS23061812
Lab ID:HS23061812-04
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	2.5	U	1.0	2.5	5.0	ug/L	5	29-Jun-2023 17:25
cis-1,2-Dichloroethene	**5.7**		**1.0**	**2.5**	**5.0**	**ug/L**	5	29-Jun-2023 17:25
cis-1,3-Dichloropropene	2.5	U	1.0	2.5	5.0	ug/L	5	29-Jun-2023 17:25
Dibromochloromethane	2.5	U	1.5	2.5	5.0	ug/L	5	29-Jun-2023 17:25
Dibromomethane	2.5	U	1.0	2.5	5.0	ug/L	5	29-Jun-2023 17:25
Dichlorodifluoromethane	2.5	U	1.5	2.5	5.0	ug/L	5	29-Jun-2023 17:25
Ethylbenzene	2.5	U	1.5	2.5	5.0	ug/L	5	29-Jun-2023 17:25
Hexachlorobutadiene	2.5	U	5.0	2.5	5.0	ug/L	5	29-Jun-2023 17:25
Isopropylbenzene	2.5	U	1.5	2.5	5.0	ug/L	5	29-Jun-2023 17:25
m,p-Xylene	5.0	U	2.5	5.0	10	ug/L	5	29-Jun-2023 17:25
Methylene chloride	2.5	U	2.0	2.5	10	ug/L	5	29-Jun-2023 17:25
n-Butylbenzene	2.5	U	2.0	2.5	5.0	ug/L	5	29-Jun-2023 17:25
n-Propylbenzene	2.5	U	1.5	2.5	5.0	ug/L	5	29-Jun-2023 17:25
Naphthalene	2.5	U	1.5	2.5	5.0	ug/L	5	29-Jun-2023 17:25
o-Xylene	2.5	U	1.5	2.5	5.0	ug/L	5	29-Jun-2023 17:25
sec-Butylbenzene	2.5	U	1.5	2.5	5.0	ug/L	5	29-Jun-2023 17:25
Styrene	2.5	U	1.5	2.5	5.0	ug/L	5	29-Jun-2023 17:25
tert-Butylbenzene	2.5	U	1.5	2.5	5.0	ug/L	5	29-Jun-2023 17:25
Tetrachloroethene	2.5	U	1.5	2.5	5.0	ug/L	5	29-Jun-2023 17:25
Toluene	2.5	U	1.0	2.5	5.0	ug/L	5	29-Jun-2023 17:25
trans-1,2-Dichloroethene	2.5	U	1.0	2.5	5.0	ug/L	5	29-Jun-2023 17:25
trans-1,3-Dichloropropene	2.5	U	1.0	2.5	5.0	ug/L	5	29-Jun-2023 17:25
Trichloroethene	**680**		**1.0**	**2.5**	**5.0**	**ug/L**	5	29-Jun-2023 17:25
Trichlorofluoromethane	2.5	U	1.5	2.5	5.0	ug/L	5	29-Jun-2023 17:25
Vinyl chloride	2.5	U	1.0	2.5	5.0	ug/L	5	29-Jun-2023 17:25
Surr: 1,2-Dichloroethane-d4	*106*			**0**	*81-118*	*%REC*	*5*	*29-Jun-2023 17:25*
Surr: 4-Bromofluorobenzene	*94.2*			**0**	*85-114*	*%REC*	*5*	*29-Jun-2023 17:25*
Surr: Dibromofluoromethane	*98.8*			**0**	*80-119*	*%REC*	*5*	*29-Jun-2023 17:25*
Surr: Toluene-d8	*108*			**0**	*89-112*	*%REC*	*5*	*29-Jun-2023 17:25*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 29-Jun-2023		Analyst: JL
1,4-Dioxane	**0.31**		**0.010**	**0.0050**	**0.010**	**ug/L**	1	05-Jul-2023 15:33
Surr: 2-Fluorobiphenyl	*112*			**0**	*40-140*	*%REC*	*1*	*05-Jul-2023 15:33*
Surr: 4-Terphenyl-d14	*120*			**0**	*40-140*	*%REC*	*1*	*05-Jul-2023 15:33*
Surr: Nitrobenzene-d5	*101*			**0**	*40-140*	*%REC*	*1*	*05-Jul-2023 15:33*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 129_062623
Collection Date: 26-Jun-2023 13:45

ANALYTICAL REPORT
WorkOrder:HS23061812
Lab ID:HS23061812-04
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 11-Jul-2023		Analyst: JC
Aluminum	**1.07**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	12-Jul-2023 21:48
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	12-Jul-2023 21:48
Arsenic	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	12-Jul-2023 21:48
Barium	**0.0976**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	12-Jul-2023 21:48
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	12-Jul-2023 21:48
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	12-Jul-2023 21:48
Calcium	**3.87**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	12-Jul-2023 21:48
Chromium	**0.00182**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	12-Jul-2023 21:48
Cobalt	**0.000740**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	12-Jul-2023 21:48
Copper	0.00250	U	0.00100	0.00250	0.00500	mg/L	1	12-Jul-2023 21:48
Iron	**0.494**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	12-Jul-2023 21:48
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	12-Jul-2023 21:48
Magnesium	**2.97**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	12-Jul-2023 21:48
Manganese	**0.0170**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	12-Jul-2023 21:48
Nickel	**0.00288**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	12-Jul-2023 21:48
Potassium	**0.298**		**0.0180**	**1.00**	**0.200**	**mg/L**	1	12-Jul-2023 21:48
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	12-Jul-2023 21:48
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	12-Jul-2023 21:48
Sodium	**62.0**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	12-Jul-2023 21:48
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	12-Jul-2023 21:48
Vanadium	**0.00139**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	12-Jul-2023 21:48
Zinc	**0.00478**	J	**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	12-Jul-2023 21:48
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 11-Jul-2023		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	11-Jul-2023 14:08
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	21-Jul-2023 12:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW6_062623
Collection Date: 26-Jun-2023 12:05

ANALYTICAL REPORT
WorkOrder:HS23061812
Lab ID:HS23061812-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 19:39
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 19:39
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	28-Jun-2023 19:39
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 19:39
1,1-Dichloroethane	**1.5**		**0.20**	**0.50**	**1.0**	**ug/L**	1	28-Jun-2023 19:39
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 19:39
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 19:39
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	28-Jun-2023 19:39
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	28-Jun-2023 19:39
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	28-Jun-2023 19:39
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 19:39
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 19:39
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 19:39
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	28-Jun-2023 19:39
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 19:39
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	28-Jun-2023 19:39
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 19:39
1,3-Dichlorobenzene	**0.64**	J	**0.40**	**0.50**	**1.0**	**ug/L**	1	28-Jun-2023 19:39
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 19:39
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	28-Jun-2023 19:39
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 19:39
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	28-Jun-2023 19:39
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 19:39
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	28-Jun-2023 19:39
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	28-Jun-2023 19:39
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	28-Jun-2023 19:39
4-Methyl-2-pentanone	0.50	U	0.70	0.50	2.0	ug/L	1	28-Jun-2023 19:39
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	28-Jun-2023 19:39
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 19:39
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	28-Jun-2023 19:39
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 19:39
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	28-Jun-2023 19:39
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	28-Jun-2023 19:39
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	28-Jun-2023 19:39
Carbon disulfide	0.50	U	0.60	0.50	2.0	ug/L	1	28-Jun-2023 19:39
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	28-Jun-2023 19:39
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 19:39
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	28-Jun-2023 19:39
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 19:39

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW6_062623
Collection Date: 26-Jun-2023 12:05

ANALYTICAL REPORT
WorkOrder:HS23061812
Lab ID:HS23061812-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	28-Jun-2023 19:39
cis-1,2-Dichloroethene	**4.9**		**0.20**	**0.50**	**1.0**	**ug/L**	1	28-Jun-2023 19:39
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	28-Jun-2023 19:39
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 19:39
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	28-Jun-2023 19:39
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 19:39
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	28-Jun-2023 19:39
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	28-Jun-2023 19:39
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	28-Jun-2023 19:39
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	28-Jun-2023 19:39
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	28-Jun-2023 19:39
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	28-Jun-2023 19:39
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	28-Jun-2023 19:39
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 19:39
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	28-Jun-2023 19:39
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 19:39
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	28-Jun-2023 19:39
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 19:39
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	28-Jun-2023 19:39
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 19:39
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	28-Jun-2023 19:39
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 19:39
Trichloroethene	**15**		**0.20**	**1.0**	**1.0**	**ug/L**	1	28-Jun-2023 19:39
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 19:39
Vinyl chloride	**0.92**	J	**0.20**	**1.0**	**1.0**	**ug/L**	1	28-Jun-2023 19:39
Surr: 1,2-Dichloroethane-d4	*84.1*			**0**	*81-118*	*%REC*	*1*	*28-Jun-2023 19:39*
Surr: 4-Bromofluorobenzene	*93.1*			**0**	*85-114*	*%REC*	*1*	*28-Jun-2023 19:39*
Surr: Dibromofluoromethane	*91.6*			**0**	*80-119*	*%REC*	*1*	*28-Jun-2023 19:39*
Surr: Toluene-d8	*104*			**0**	*89-112*	*%REC*	*1*	*28-Jun-2023 19:39*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW6_062623
Collection Date: 26-Jun-2023 12:05

ANALYTICAL REPORT
WorkOrder:HS23061812
Lab ID:HS23061812-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 11-Jul-2023		Analyst: JC
Aluminum	**0.00784**	J	**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	12-Jul-2023 21:50
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	12-Jul-2023 21:50
Arsenic	**0.000767**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	12-Jul-2023 21:50
Barium	**0.452**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	12-Jul-2023 21:50
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	12-Jul-2023 21:50
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	12-Jul-2023 21:50
Calcium	**20.2**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	12-Jul-2023 21:50
Chromium	**0.0616**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	12-Jul-2023 21:50
Cobalt	**0.00142**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	12-Jul-2023 21:50
Copper	**0.00258**	J	**0.00100**	**0.00250**	**0.00500**	**mg/L**	1	12-Jul-2023 21:50
Iron	**0.987**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	12-Jul-2023 21:50
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	12-Jul-2023 21:50
Magnesium	**16.6**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	12-Jul-2023 21:50
Manganese	**0.0409**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	12-Jul-2023 21:50
Nickel	**0.126**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	12-Jul-2023 21:50
Potassium	**1.86**		**0.0180**	**1.00**	**0.200**	**mg/L**	1	12-Jul-2023 21:50
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	12-Jul-2023 21:50
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	12-Jul-2023 21:50
Sodium	**169**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	12-Jul-2023 21:50
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	12-Jul-2023 21:50
Vanadium	**0.000777**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	12-Jul-2023 21:50
Zinc	**0.00627**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	12-Jul-2023 21:50
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 11-Jul-2023		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	11-Jul-2023 14:10
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	21-Jul-2023 12:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW21_062623
Collection Date: 26-Jun-2023 08:50

ANALYTICAL REPORT
WorkOrder:HS23061812
Lab ID:HS23061812-06
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	5.0	U	1.5	5.0	5.0	ug/L	5	28-Jun-2023 21:03
1,1,1-Trichloroethane	5.0	U	1.0	5.0	5.0	ug/L	5	28-Jun-2023 21:03
1,1,2,2-Tetrachloroethane	5.0	U	2.5	5.0	5.0	ug/L	5	28-Jun-2023 21:03
1,1,2-Trichloroethane	**11**		**1.5**	**5.0**	**5.0**	**ug/L**	5	28-Jun-2023 21:03
1,1-Dichloroethane	**7.6**		**1.0**	**5.0**	**5.0**	**ug/L**	5	28-Jun-2023 21:03
1,1-Dichloroethene	5.0	U	1.0	5.0	5.0	ug/L	5	28-Jun-2023 21:03
1,1-Dichloropropene	5.0	U	1.5	5.0	5.0	ug/L	5	28-Jun-2023 21:03
1,2,3-Trichlorobenzene	5.0	U	2.0	5.0	5.0	ug/L	5	28-Jun-2023 21:03
1,2,3-Trichloropropane	5.0	U	2.5	5.0	5.0	ug/L	5	28-Jun-2023 21:03
1,2,4-Trichlorobenzene	5.0	U	2.5	5.0	5.0	ug/L	5	28-Jun-2023 21:03
1,2,4-Trimethylbenzene	5.0	U	1.5	5.0	5.0	ug/L	5	28-Jun-2023 21:03
1,2-Dibromo-3-chloropropane	5.0	U	1.0	5.0	5.0	ug/L	5	28-Jun-2023 21:03
1,2-Dibromoethane	5.0	U	1.0	5.0	5.0	ug/L	5	28-Jun-2023 21:03
1,2-Dichlorobenzene	5.0	U	2.5	5.0	5.0	ug/L	5	28-Jun-2023 21:03
1,2-Dichloroethane	**22**		**1.0**	**5.0**	**5.0**	**ug/L**	5	28-Jun-2023 21:03
1,2-Dichloropropane	5.0	U	2.5	5.0	5.0	ug/L	5	28-Jun-2023 21:03
1,3,5-Trimethylbenzene	5.0	U	1.5	5.0	5.0	ug/L	5	28-Jun-2023 21:03
1,3-Dichlorobenzene	5.0	U	2.0	5.0	5.0	ug/L	5	28-Jun-2023 21:03
1,3-Dichloropropane	5.0	U	1.5	5.0	5.0	ug/L	5	28-Jun-2023 21:03
1,4-Dichlorobenzene	5.0	U	2.0	5.0	5.0	ug/L	5	28-Jun-2023 21:03
2,2-Dichloropropane	2.5	U	1.0	2.5	5.0	ug/L	5	28-Jun-2023 21:03
2-Butanone	5.0	U	2.5	5.0	10	ug/L	5	28-Jun-2023 21:03
2-Chlorotoluene	2.5	U	1.5	2.5	5.0	ug/L	5	28-Jun-2023 21:03
2-Hexanone	5.0	U	5.0	5.0	10	ug/L	5	28-Jun-2023 21:03
4-Chlorotoluene	2.5	U	2.0	2.5	5.0	ug/L	5	28-Jun-2023 21:03
4-Isopropyltoluene	5.0	U	1.5	5.0	5.0	ug/L	5	28-Jun-2023 21:03
4-Methyl-2-pentanone	2.5	U	3.5	2.5	10	ug/L	5	28-Jun-2023 21:03
Acetone	5.0	U	2.0	5.0	10	ug/L	5	28-Jun-2023 21:03
Benzene	2.5	U	1.0	2.5	5.0	ug/L	5	28-Jun-2023 21:03
Bromobenzene	5.0	U	2.0	5.0	5.0	ug/L	5	28-Jun-2023 21:03
Bromochloromethane	2.5	U	1.0	2.5	5.0	ug/L	5	28-Jun-2023 21:03
Bromodichloromethane	5.0	U	1.0	5.0	5.0	ug/L	5	28-Jun-2023 21:03
Bromoform	2.5	U	2.0	2.5	5.0	ug/L	5	28-Jun-2023 21:03
Bromomethane	5.0	U	2.0	5.0	5.0	ug/L	5	28-Jun-2023 21:03
Carbon disulfide	2.5	U	3.0	2.5	10	ug/L	5	28-Jun-2023 21:03
Carbon tetrachloride	2.5	U	2.5	2.5	5.0	ug/L	5	28-Jun-2023 21:03
Chlorobenzene	5.0	U	1.5	5.0	5.0	ug/L	5	28-Jun-2023 21:03
Chloroethane	2.5	U	1.5	2.5	5.0	ug/L	5	28-Jun-2023 21:03
Chloroform	**13**		**1.0**	**5.0**	**5.0**	**ug/L**	5	28-Jun-2023 21:03

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW21_062623
Collection Date: 26-Jun-2023 08:50

ANALYTICAL REPORT
WorkOrder:HS23061812
Lab ID:HS23061812-06
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	2.5	U	1.0	2.5	5.0	ug/L	5	28-Jun-2023 21:03
cis-1,2-Dichloroethene	**4,400**		**10**	**50**	**50**	**ug/L**	50	28-Jun-2023 21:24
cis-1,3-Dichloropropene	2.5	U	1.0	2.5	5.0	ug/L	5	28-Jun-2023 21:03
Dibromochloromethane	5.0	U	1.5	5.0	5.0	ug/L	5	28-Jun-2023 21:03
Dibromomethane	2.5	U	1.0	2.5	5.0	ug/L	5	28-Jun-2023 21:03
Dichlorodifluoromethane	2.5	U	1.5	2.5	5.0	ug/L	5	28-Jun-2023 21:03
Ethylbenzene	2.5	U	1.5	2.5	5.0	ug/L	5	28-Jun-2023 21:03
Hexachlorobutadiene	5.0	U	5.0	5.0	5.0	ug/L	5	28-Jun-2023 21:03
Isopropylbenzene	2.5	U	1.5	2.5	5.0	ug/L	5	28-Jun-2023 21:03
m,p-Xylene	5.0	U	2.5	5.0	10	ug/L	5	28-Jun-2023 21:03
Methylene chloride	5.0	U	2.0	5.0	10	ug/L	5	28-Jun-2023 21:03
n-Butylbenzene	2.5	U	2.0	2.5	5.0	ug/L	5	28-Jun-2023 21:03
n-Propylbenzene	2.5	U	1.5	2.5	5.0	ug/L	5	28-Jun-2023 21:03
Naphthalene	2.5	U	1.5	2.5	5.0	ug/L	5	28-Jun-2023 21:03
o-Xylene	5.0	U	1.5	5.0	5.0	ug/L	5	28-Jun-2023 21:03
sec-Butylbenzene	2.5	U	1.5	2.5	5.0	ug/L	5	28-Jun-2023 21:03
Styrene	5.0	U	1.5	5.0	5.0	ug/L	5	28-Jun-2023 21:03
tert-Butylbenzene	5.0	U	1.5	5.0	5.0	ug/L	5	28-Jun-2023 21:03
Tetrachloroethene	2.5	U	1.5	2.5	5.0	ug/L	5	28-Jun-2023 21:03
Toluene	5.0	U	1.0	5.0	5.0	ug/L	5	28-Jun-2023 21:03
trans-1,2-Dichloroethene	**15**		**1.0**	**2.5**	**5.0**	**ug/L**	5	28-Jun-2023 21:03
trans-1,3-Dichloropropene	5.0	U	1.0	5.0	5.0	ug/L	5	28-Jun-2023 21:03
Trichloroethene	**4,700**		**10**	**25**	**50**	**ug/L**	50	28-Jun-2023 21:24
Trichlorofluoromethane	5.0	U	1.5	5.0	5.0	ug/L	5	28-Jun-2023 21:03
Vinyl chloride	**32**		**1.0**	**2.5**	**5.0**	**ug/L**	5	28-Jun-2023 21:03
Surr: 1,2-Dichloroethane-d4	*83.6*			**0**	*81-118*	*%REC*	*5*	*28-Jun-2023 21:03*
Surr: 1,2-Dichloroethane-d4	*83.3*			**0**	*81-118*	*%REC*	*50*	*28-Jun-2023 21:24*
Surr: 4-Bromofluorobenzene	*92.8*			**0**	*85-114*	*%REC*	*5*	*28-Jun-2023 21:03*
Surr: 4-Bromofluorobenzene	*93.5*			**0**	*85-114*	*%REC*	*50*	*28-Jun-2023 21:24*
Surr: Dibromofluoromethane	*90.3*			**0**	*80-119*	*%REC*	*5*	*28-Jun-2023 21:03*
Surr: Dibromofluoromethane	*91.8*			**0**	*80-119*	*%REC*	*50*	*28-Jun-2023 21:24*
Surr: Toluene-d8	*102*			**0**	*89-112*	*%REC*	*5*	*28-Jun-2023 21:03*
Surr: Toluene-d8	*104*			**0**	*89-112*	*%REC*	*50*	*28-Jun-2023 21:24*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 29-Jun-2023		Analyst: JL
1,4-Dioxane	**0.46**		**0.010**	**0.0050**	**0.010**	**ug/L**	1	05-Jul-2023 15:51
Surr: 2-Fluorobiphenyl	*100*			**0**	*40-140*	*%REC*	*1*	*05-Jul-2023 15:51*
Surr: 4-Terphenyl-d14	*110*			**0**	*40-140*	*%REC*	*1*	*05-Jul-2023 15:51*
Surr: Nitrobenzene-d5	*99.7*			**0**	*40-140*	*%REC*	*1*	*05-Jul-2023 15:51*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW21_062623
Collection Date: 26-Jun-2023 08:50

ANALYTICAL REPORT
WorkOrder:HS23061812
Lab ID:HS23061812-06
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 11-Jul-2023		Analyst: JC
Aluminum	**0.00808**	J	**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	12-Jul-2023 21:52
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	12-Jul-2023 21:52
Arsenic	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	12-Jul-2023 21:52
Barium	**2.47**		**0.0380**	**0.0500**	**0.100**	**mg/L**	20	13-Jul-2023 12:32
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	12-Jul-2023 21:52
Cadmium	**0.000326**	J	**0.000200**	**0.000500**	**0.00200**	**mg/L**	1	12-Jul-2023 21:52
Calcium	**95.0**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	12-Jul-2023 21:52
Chromium	**0.233**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	12-Jul-2023 21:52
Cobalt	**0.0266**		**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	12-Jul-2023 21:52
Copper	**0.00873**		**0.00100**	**0.00250**	**0.00500**	**mg/L**	1	12-Jul-2023 21:52
Iron	**2.10**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	12-Jul-2023 21:52
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	12-Jul-2023 21:52
Magnesium	**72.5**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	12-Jul-2023 21:52
Manganese	**0.809**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	12-Jul-2023 21:52
Nickel	**0.547**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	12-Jul-2023 21:52
Potassium	**1.60**		**0.0180**	**1.00**	**0.200**	**mg/L**	1	12-Jul-2023 21:52
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	12-Jul-2023 21:52
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	12-Jul-2023 21:52
Sodium	**324**		**0.280**	**1.00**	**4.00**	**mg/L**	20	13-Jul-2023 12:32
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	12-Jul-2023 21:52
Vanadium	**0.00108**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	12-Jul-2023 21:52
Zinc	**0.00812**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	12-Jul-2023 21:52
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 11-Jul-2023		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	11-Jul-2023 14:11
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	21-Jul-2023 12:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 109_062623
Collection Date: 26-Jun-2023 10:40

ANALYTICAL REPORT
WorkOrder:HS23061812
Lab ID:HS23061812-07
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	10	U	3.0	10	10	ug/L	10	28-Jun-2023 20:00
1,1,1-Trichloroethane	10	U	2.0	10	10	ug/L	10	28-Jun-2023 20:00
1,1,2,2-Tetrachloroethane	10	U	5.0	10	10	ug/L	10	28-Jun-2023 20:00
1,1,2-Trichloroethane	10	U	3.0	10	10	ug/L	10	28-Jun-2023 20:00
1,1-Dichloroethane	10	U	2.0	10	10	ug/L	10	28-Jun-2023 20:00
1,1-Dichloroethene	10	U	2.0	10	10	ug/L	10	28-Jun-2023 20:00
1,1-Dichloropropene	10	U	3.0	10	10	ug/L	10	28-Jun-2023 20:00
1,2,3-Trichlorobenzene	10	U	4.0	10	10	ug/L	10	28-Jun-2023 20:00
1,2,3-Trichloropropane	10	U	5.0	10	10	ug/L	10	28-Jun-2023 20:00
1,2,4-Trichlorobenzene	10	U	5.0	10	10	ug/L	10	28-Jun-2023 20:00
1,2,4-Trimethylbenzene	10	U	3.0	10	10	ug/L	10	28-Jun-2023 20:00
1,2-Dibromo-3-chloropropane	10	U	2.0	10	10	ug/L	10	28-Jun-2023 20:00
1,2-Dibromoethane	10	U	2.0	10	10	ug/L	10	28-Jun-2023 20:00
1,2-Dichlorobenzene	10	U	5.0	10	10	ug/L	10	28-Jun-2023 20:00
1,2-Dichloroethane	10	U	2.0	10	10	ug/L	10	28-Jun-2023 20:00
1,2-Dichloropropane	10	U	5.0	10	10	ug/L	10	28-Jun-2023 20:00
1,3,5-Trimethylbenzene	10	U	3.0	10	10	ug/L	10	28-Jun-2023 20:00
1,3-Dichlorobenzene	10	U	4.0	10	10	ug/L	10	28-Jun-2023 20:00
1,3-Dichloropropane	10	U	3.0	10	10	ug/L	10	28-Jun-2023 20:00
1,4-Dichlorobenzene	10	U	4.0	10	10	ug/L	10	28-Jun-2023 20:00
2,2-Dichloropropane	10	U	2.0	10	10	ug/L	10	28-Jun-2023 20:00
2-Butanone	5.0	U	5.0	5.0	20	ug/L	10	28-Jun-2023 20:00
2-Chlorotoluene	10	U	3.0	10	10	ug/L	10	28-Jun-2023 20:00
2-Hexanone	5.0	U	10	5.0	20	ug/L	10	28-Jun-2023 20:00
4-Chlorotoluene	10	U	4.0	10	10	ug/L	10	28-Jun-2023 20:00
4-Isopropyltoluene	5.0	U	3.0	5.0	10	ug/L	10	28-Jun-2023 20:00
4-Methyl-2-pentanone	10	U	7.0	10	20	ug/L	10	28-Jun-2023 20:00
Acetone	5.0	U	4.0	5.0	20	ug/L	10	28-Jun-2023 20:00
Benzene	10	U	2.0	10	10	ug/L	10	28-Jun-2023 20:00
Bromobenzene	5.0	U	4.0	5.0	10	ug/L	10	28-Jun-2023 20:00
Bromochloromethane	10	U	2.0	10	10	ug/L	10	28-Jun-2023 20:00
Bromodichloromethane	5.0	U	2.0	5.0	10	ug/L	10	28-Jun-2023 20:00
Bromoform	10	U	4.0	10	10	ug/L	10	28-Jun-2023 20:00
Bromomethane	5.0	U	4.0	5.0	10	ug/L	10	28-Jun-2023 20:00
Carbon disulfide	10	U	6.0	10	20	ug/L	10	28-Jun-2023 20:00
Carbon tetrachloride	10	U	5.0	10	10	ug/L	10	28-Jun-2023 20:00
Chlorobenzene	5.0	U	3.0	5.0	10	ug/L	10	28-Jun-2023 20:00
Chloroethane	10	U	3.0	10	10	ug/L	10	28-Jun-2023 20:00
Chloroform	5.0	U	2.0	5.0	10	ug/L	10	28-Jun-2023 20:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 109_062623
Collection Date: 26-Jun-2023 10:40

ANALYTICAL REPORT
WorkOrder:HS23061812
Lab ID:HS23061812-07
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	10	U	2.0	10	10	ug/L	10	28-Jun-2023 20:00
cis-1,2-Dichloroethene	**710**		**2.0**	**5.0**	**10**	**ug/L**	10	28-Jun-2023 20:00
cis-1,3-Dichloropropene	10	U	2.0	10	10	ug/L	10	28-Jun-2023 20:00
Dibromochloromethane	5.0	U	3.0	5.0	10	ug/L	10	28-Jun-2023 20:00
Dibromomethane	10	U	2.0	10	10	ug/L	10	28-Jun-2023 20:00
Dichlorodifluoromethane	10	U	3.0	10	10	ug/L	10	28-Jun-2023 20:00
Ethylbenzene	10	U	3.0	10	10	ug/L	10	28-Jun-2023 20:00
Hexachlorobutadiene	5.0	U	10	5.0	10	ug/L	10	28-Jun-2023 20:00
Isopropylbenzene	10	U	3.0	10	10	ug/L	10	28-Jun-2023 20:00
m,p-Xylene	20	U	5.0	20	20	ug/L	10	28-Jun-2023 20:00
Methylene chloride	5.0	U	4.0	5.0	20	ug/L	10	28-Jun-2023 20:00
n-Butylbenzene	10	U	4.0	10	10	ug/L	10	28-Jun-2023 20:00
n-Propylbenzene	10	U	3.0	10	10	ug/L	10	28-Jun-2023 20:00
Naphthalene	5.0	U	3.0	5.0	10	ug/L	10	28-Jun-2023 20:00
o-Xylene	5.0	U	3.0	5.0	10	ug/L	10	28-Jun-2023 20:00
sec-Butylbenzene	10	U	3.0	10	10	ug/L	10	28-Jun-2023 20:00
Styrene	5.0	U	3.0	5.0	10	ug/L	10	28-Jun-2023 20:00
tert-Butylbenzene	5.0	U	3.0	5.0	10	ug/L	10	28-Jun-2023 20:00
Tetrachloroethene	10	U	3.0	10	10	ug/L	10	28-Jun-2023 20:00
Toluene	5.0	U	2.0	5.0	10	ug/L	10	28-Jun-2023 20:00
trans-1,2-Dichloroethene	10	U	2.0	10	10	ug/L	10	28-Jun-2023 20:00
trans-1,3-Dichloropropene	5.0	U	2.0	5.0	10	ug/L	10	28-Jun-2023 20:00
Trichloroethene	**1,200**		**2.0**	**10**	**10**	**ug/L**	10	28-Jun-2023 20:00
Trichlorofluoromethane	5.0	U	3.0	5.0	10	ug/L	10	28-Jun-2023 20:00
Vinyl chloride	10	U	2.0	10	10	ug/L	10	28-Jun-2023 20:00
Surr: 1,2-Dichloroethane-d4	*82.5*			**0**	*81-118*	*%REC*	*10*	*28-Jun-2023 20:00*
Surr: 4-Bromofluorobenzene	*92.0*			**0**	*85-114*	*%REC*	*10*	*28-Jun-2023 20:00*
Surr: Dibromofluoromethane	*89.9*			**0**	*80-119*	*%REC*	*10*	*28-Jun-2023 20:00*
Surr: Toluene-d8	*103*			**0**	*89-112*	*%REC*	*10*	*28-Jun-2023 20:00*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 29-Jun-2023		Analyst: JL
1,4-Dioxane	**0.11**		**0.010**	**0.0050**	**0.010**	**ug/L**	1	05-Jul-2023 16:09
Surr: 2-Fluorobiphenyl	*104*			**0**	*40-140*	*%REC*	*1*	*05-Jul-2023 16:09*
Surr: 4-Terphenyl-d14	*105*			**0**	*40-140*	*%REC*	*1*	*05-Jul-2023 16:09*
Surr: Nitrobenzene-d5	*95.6*			**0**	*40-140*	*%REC*	*1*	*05-Jul-2023 16:09*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 109_062623
Collection Date: 26-Jun-2023 10:40

ANALYTICAL REPORT
WorkOrder:HS23061812
Lab ID:HS23061812-07
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 11-Jul-2023		Analyst: JC
Aluminum	**0.231**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	12-Jul-2023 21:54
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	12-Jul-2023 21:54
Arsenic	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	12-Jul-2023 21:54
Barium	**0.235**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	12-Jul-2023 21:54
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	12-Jul-2023 21:54
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	12-Jul-2023 21:54
Calcium	**11.3**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	12-Jul-2023 21:54
Chromium	**0.00151**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	12-Jul-2023 21:54
Cobalt	**0.000240**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	12-Jul-2023 21:54
Copper	0.00250	U	0.00100	0.00250	0.00500	mg/L	1	12-Jul-2023 21:54
Iron	**0.228**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	12-Jul-2023 21:54
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	12-Jul-2023 21:54
Magnesium	**8.14**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	12-Jul-2023 21:54
Manganese	**0.0201**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	12-Jul-2023 21:54
Nickel	**0.00150**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	12-Jul-2023 21:54
Potassium	**0.457**		**0.0180**	**1.00**	**0.200**	**mg/L**	1	12-Jul-2023 21:54
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	12-Jul-2023 21:54
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	12-Jul-2023 21:54
Sodium	**98.0**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	12-Jul-2023 21:54
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	12-Jul-2023 21:54
Vanadium	**0.000734**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	12-Jul-2023 21:54
Zinc	**0.00858**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	12-Jul-2023 21:54
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 11-Jul-2023		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	11-Jul-2023 14:13
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	21-Jul-2023 12:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: Trip Blank
Collection Date: 24-Jun-2023 00:00

ANALYTICAL REPORT
WorkOrder:HS23061812
Lab ID:HS23061812-08
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 16:30
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 16:30
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	28-Jun-2023 16:30
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 16:30
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 16:30
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 16:30
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 16:30
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	28-Jun-2023 16:30
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	28-Jun-2023 16:30
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	28-Jun-2023 16:30
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 16:30
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 16:30
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 16:30
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	28-Jun-2023 16:30
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 16:30
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	28-Jun-2023 16:30
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 16:30
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	28-Jun-2023 16:30
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 16:30
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	28-Jun-2023 16:30
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 16:30
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	28-Jun-2023 16:30
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 16:30
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	28-Jun-2023 16:30
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	28-Jun-2023 16:30
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	28-Jun-2023 16:30
4-Methyl-2-pentanone	0.50	U	0.70	0.50	2.0	ug/L	1	28-Jun-2023 16:30
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	28-Jun-2023 16:30
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 16:30
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	28-Jun-2023 16:30
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 16:30
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	28-Jun-2023 16:30
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	28-Jun-2023 16:30
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	28-Jun-2023 16:30
Carbon disulfide	0.50	U	0.60	0.50	2.0	ug/L	1	28-Jun-2023 16:30
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	28-Jun-2023 16:30
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	28-Jun-2023 16:30
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 16:30
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	28-Jun-2023 16:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: Trip Blank
Collection Date: 24-Jun-2023 00:00

ANALYTICAL REPORT
WorkOrder:HS23061812
Lab ID:HS23061812-08
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 16:30
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	28-Jun-2023 16:30
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 16:30
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	28-Jun-2023 16:30
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 16:30
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 16:30
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 16:30
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	28-Jun-2023 16:30
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 16:30
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	28-Jun-2023 16:30
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	28-Jun-2023 16:30
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	28-Jun-2023 16:30
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 16:30
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	28-Jun-2023 16:30
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	28-Jun-2023 16:30
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 16:30
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	28-Jun-2023 16:30
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	28-Jun-2023 16:30
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	28-Jun-2023 16:30
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	28-Jun-2023 16:30
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 16:30
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	28-Jun-2023 16:30
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 16:30
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	28-Jun-2023 16:30
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	28-Jun-2023 16:30
Surr: 1,2-Dichloroethane-d4	*84.3*			**0**	*81-118*	*%REC*	*1*	*28-Jun-2023 16:30*
Surr: 4-Bromofluorobenzene	*94.3*			**0**	*85-114*	*%REC*	*1*	*28-Jun-2023 16:30*
Surr: Dibromofluoromethane	*90.5*			**0**	*80-119*	*%REC*	*1*	*28-Jun-2023 16:30*
Surr: Toluene-d8	*104*			**0**	*89-112*	*%REC*	*1*	*28-Jun-2023 16:30*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 21-Jul-23

Weight / Prep Log

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS23061812

Batch ID: 196920 **Start Date:** 29 Jun 2023 12:18 **End Date:** 29 Jun 2023 12:18
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_SIM

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23061812-02	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS23061812-03	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS23061812-04	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS23061812-06	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS23061812-07	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat

Batch ID: 197408 **Start Date:** 11 Jul 2023 08:00 **End Date:** 11 Jul 2023 08:00
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23061812-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23061812-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23061812-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23061812-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23061812-07		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 197423 **Start Date:** 11 Jul 2023 14:00 **End Date:** 11 Jul 2023 14:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23061812-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23061812-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23061812-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23061812-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23061812-07		10 (mL)	10 (mL)	1	120 plastic HNO3

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS23061812

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 196920 (0)	**Test Name :** SEMIVOLATILES SIM				**Matrix:** Groundwater	
HS23061812-02	18CPTMW06_062423	24 Jun 2023 10:50		29 Jun 2023 12:18	05 Jul 2023 14:56	1
HS23061812-03	AWD1_062423	24 Jun 2023 08:35		29 Jun 2023 12:18	05 Jul 2023 16:27	10
HS23061812-04	129_062623	26 Jun 2023 13:45		29 Jun 2023 12:18	05 Jul 2023 15:33	1
HS23061812-06	MW21_062623	26 Jun 2023 08:50		29 Jun 2023 12:18	05 Jul 2023 15:51	1
HS23061812-07	109_062623	26 Jun 2023 10:40		29 Jun 2023 12:18	05 Jul 2023 16:09	1
Batch ID: 197408 (0)	**Test Name :** MERCURY BY SW7470A				**Matrix:** Groundwater	
HS23061812-01	MW22_062423	24 Jun 2023 12:35		11 Jul 2023 08:00	11 Jul 2023 14:03	1
HS23061812-04	129_062623	26 Jun 2023 13:45		11 Jul 2023 08:00	11 Jul 2023 14:08	1
HS23061812-05	MW6_062623	26 Jun 2023 12:05		11 Jul 2023 08:00	11 Jul 2023 14:10	1
HS23061812-06	MW21_062623	26 Jun 2023 08:50		11 Jul 2023 08:00	11 Jul 2023 14:11	1
HS23061812-07	109_062623	26 Jun 2023 10:40		11 Jul 2023 08:00	11 Jul 2023 14:13	1
Batch ID: 197423 (0)	**Test Name :** METALS BY ICPMS BY SW6020A				**Matrix:** Groundwater	
HS23061812-01	MW22_062423	24 Jun 2023 12:35		11 Jul 2023 14:00	13 Jul 2023 12:30	20
HS23061812-01	MW22_062423	24 Jun 2023 12:35		11 Jul 2023 14:00	12 Jul 2023 21:46	1
HS23061812-04	129_062623	26 Jun 2023 13:45		11 Jul 2023 14:00	12 Jul 2023 21:48	1
HS23061812-05	MW6_062623	26 Jun 2023 12:05		11 Jul 2023 14:00	12 Jul 2023 21:50	1
HS23061812-06	MW21_062623	26 Jun 2023 08:50		11 Jul 2023 14:00	13 Jul 2023 12:32	20
HS23061812-06	MW21_062623	26 Jun 2023 08:50		11 Jul 2023 14:00	12 Jul 2023 21:52	1
HS23061812-07	109_062623	26 Jun 2023 10:40		11 Jul 2023 14:00	12 Jul 2023 21:54	1
Batch ID: R440138 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS23061812-08	Trip Blank	24 Jun 2023 00:00			28 Jun 2023 16:30	1
Batch ID: R440138 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Groundwater	
HS23061812-02	18CPTMW06_062423	24 Jun 2023 10:50			28 Jun 2023 16:51	1
HS23061812-05	MW6_062623	26 Jun 2023 12:05			28 Jun 2023 19:39	1
HS23061812-06	MW21_062623	26 Jun 2023 08:50			28 Jun 2023 21:24	50
HS23061812-06	MW21_062623	26 Jun 2023 08:50			28 Jun 2023 21:03	5
HS23061812-07	109_062623	26 Jun 2023 10:40			28 Jun 2023 20:00	10
Batch ID: R440247 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Groundwater	
HS23061812-01	MW22_062423	24 Jun 2023 12:35			29 Jun 2023 21:31	1
HS23061812-04	129_062623	26 Jun 2023 13:45			29 Jun 2023 17:25	5
Batch ID: R440378 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Groundwater	
HS23061812-01	MW22_062423	24 Jun 2023 12:35			30 Jun 2023 13:35	5

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS23061812

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R441922 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Groundwater	
HS23061812-01	MW22_062423	24 Jun 2023 12:35			21 Jul 2023 12:25	1
HS23061812-02	18CPTMW06_062423	24 Jun 2023 10:50			21 Jul 2023 12:25	1
HS23061812-04	129_062623	26 Jun 2023 13:45			21 Jul 2023 12:25	1
HS23061812-05	MW6_062623	26 Jun 2023 12:05			21 Jul 2023 12:25	1
HS23061812-06	MW21_062623	26 Jun 2023 08:50			21 Jul 2023 12:25	1
HS23061812-07	109_062623	26 Jun 2023 10:40			21 Jul 2023 12:25	1

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS23061812

QC BATCH REPORT

Batch ID: 197408 (0) **Instrument: HG04** **Method: MERCURY BY SW7470A**

MBLK Sample ID: **MBLK-197408** Units: **mg/L** Analysis Date: **11-Jul-2023 13:47**
Client ID: Run ID: **HG04_441015** SeqNo: **7419235** PrepDate: **11-Jul-2023** 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-197408** Units: **mg/L** Analysis Date: **11-Jul-2023 13:49**
Client ID: Run ID: **HG04_441015** SeqNo: **7419236** PrepDate: **11-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00560	0.000200	0.005	0	112	82 - 119				

MS Sample ID: **HS23061825-05MS** Units: **mg/L** Analysis Date: **11-Jul-2023 14:45**
Client ID: Run ID: **HG04_441015** SeqNo: **7419262** PrepDate: **11-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00519	0.000200	0.005	0.00001000	104	82 - 119				

MS Sample ID: **HS23061712-08MS** Units: **mg/L** Analysis Date: **11-Jul-2023 13:59**
Client ID: Run ID: **HG04_441015** SeqNo: **7419242** PrepDate: **11-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00506	0.000200	0.005	0.00001300	101	82 - 119				

MSD Sample ID: **HS23061825-05MSD** Units: **mg/L** Analysis Date: **11-Jul-2023 14:47**
Client ID: Run ID: **HG04_441015** SeqNo: **7419263** PrepDate: **11-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00498	0.000200	0.005	0.00001000	99.4	82 - 119	0.005190	4.13	20	

MSD Sample ID: **HS23061712-08MSD** Units: **mg/L** Analysis Date: **11-Jul-2023 14:01**
Client ID: Run ID: **HG04_441015** SeqNo: **7419243** PrepDate: **11-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00479	0.000200	0.005	0.00001300	95.5	82 - 119	0.005060	5.48	20	

The following samples were analyzed in this batch: HS23061812-01 HS23061812-04 HS23061812-05 HS23061812-06 HS23061812-07

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS23061812

QC BATCH REPORT

Batch ID: 197423 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

MBLK Sample ID: **MBLK-197423** Units: **mg/L** Analysis Date: **12-Jul-2023 21:27**
Client ID: Run ID: **ICPMS06_441153** SeqNo: **7423316** PrepDate: **11-Jul-2023** 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	1.00	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

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS23061812

QC BATCH REPORT

Batch ID: 197423 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

LCS Sample ID: **LCS-197423** Units: **mg/L** Analysis Date: **12-Jul-2023 21:29**
Client ID: Run ID: **ICPMS06_441153** SeqNo: **7423317** PrepDate: **11-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.09442	0.0100	0.1	0	94.4	84 - 117				
Antimony	0.04345	0.00500	0.05	0	86.9	85 - 117				
Arsenic	0.04574	0.00500	0.05	0	91.5	84 - 116				
Barium	0.04476	0.00500	0.05	0	89.5	86 - 114				
Beryllium	0.04593	0.00200	0.05	0	91.9	83 - 121				
Cadmium	0.04657	0.00200	0.05	0	93.1	87 - 115				
Calcium	4.729	0.500	5	0	94.6	87 - 118				
Chromium	0.04417	0.00500	0.05	0	88.3	85 - 116				
Cobalt	0.04393	0.00500	0.05	0	87.9	86 - 115				
Copper	0.04524	0.00500	0.05	0	90.5	85 - 118				
Iron	4.667	0.200	5	0	93.3	87 - 118				
Lead	0.04432	0.00500	0.05	0	88.6	88 - 115				
Magnesium	4.777	0.200	5	0	95.5	83 - 118				
Manganese	0.0444	0.00500	0.05	0	88.8	87 - 115				
Nickel	0.04546	0.00500	0.05	0	90.9	85 - 117				
Potassium	4.714	0.200	5	0	94.3	87 - 115				
Selenium	0.04589	0.00500	0.05	0	91.8	80 - 120				
Silver	0.04701	0.00500	0.05	0	94.0	85 - 116				
Sodium	4.681	0.200	5	0	93.6	85 - 117				
Vanadium	0.04437	0.00500	0.05	0	88.7	86 - 115				
Zinc	0.04763	0.00500	0.05	0	95.3	83 - 119				

LCS Sample ID: **LCS-197423** Units: **mg/L** Analysis Date: **13-Jul-2023 12:01**
Client ID: Run ID: **ICPMS06_441200** SeqNo: **7424663** PrepDate: **11-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Thallium	0.04483	0.00200	0.05	0	89.7	82 - 116				

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS23061812

QC BATCH REPORT

Batch ID: 197423 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

MS Sample ID: **HS23061825-05MS** Units: **mg/L** Analysis Date: **12-Jul-2023 21:35**
Client ID: Run ID: **ICPMS06_441153** SeqNo: **7423320** PrepDate: **11-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1401	0.0100	0.1	0.03456	105	84 - 117				
Antimony	0.04229	0.00500	0.05	0.000131	84.3	85 - 117				S
Arsenic	0.04538	0.00500	0.05	0.000254	90.3	84 - 116				
Barium	0.4881	0.00500	0.05	0.4514	73.4	86 - 114				SO
Beryllium	0.04415	0.00200	0.05	0.000062	88.2	83 - 121				
Cadmium	0.04547	0.00200	0.05	0.000105	90.7	87 - 115				
Calcium	29.96	0.500	5	25.08	97.6	87 - 118				O
Chromium	0.2479	0.00500	0.05	0.2167	62.5	85 - 116				SO
Cobalt	0.04404	0.00500	0.05	0.000449	87.2	86 - 115				
Copper	0.04741	0.00500	0.05	0.003124	88.6	85 - 118				
Iron	95.74	0.200	5	93.27	49.3	87 - 118				SO
Lead	0.04436	0.00500	0.05	0.00011	88.5	88 - 115				
Magnesium	17	0.200	5	12.52	89.7	83 - 118				
Manganese	1.089	0.00500	0.05	1.071	34.9	87 - 115				SO
Nickel	0.08056	0.00500	0.05	0.03646	88.2	85 - 117				
Potassium	7.965	0.200	5	3.349	92.3	87 - 115				
Selenium	0.04459	0.00500	0.05	-0.000079	89.3	80 - 120				
Silver	0.04517	0.00500	0.05	0.000019	90.3	85 - 116				
Sodium	90.13	0.200	5	87.4	54.7	85 - 117				SO
Vanadium	0.04476	0.00500	0.05	0.000753	88.0	86 - 115				
Zinc	0.04994	0.00500	0.05	0.005191	89.5	83 - 119				

MS Sample ID: **HS23061825-05MS** Units: **mg/L** Analysis Date: **13-Jul-2023 12:03**
Client ID: Run ID: **ICPMS06_441200** SeqNo: **7424664** PrepDate: **11-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Thallium	0.04513	0.00200	0.05	0.000522	89.2	82 - 116				

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS23061812

QC BATCH REPORT

Batch ID: 197423 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

MSD Sample ID: **HS23061825-05MSD** Units: **mg/L** Analysis Date: **12-Jul-2023 21:38**
Client ID: Run ID: **ICPMS06_441153** SeqNo: **7423321** PrepDate: **11-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1287	0.0100	0.1	0.03456	94.2	84 - 117	0.1401	8.42	20	
Antimony	0.04205	0.00500	0.05	0.000131	83.8	85 - 117	0.04229	0.567	20	S
Arsenic	0.04512	0.00500	0.05	0.000254	89.7	84 - 116	0.04538	0.594	20	
Barium	0.4909	0.00500	0.05	0.4514	78.9	86 - 114	0.4881	0.558	20	SO
Beryllium	0.04475	0.00200	0.05	0.000062	89.4	83 - 121	0.04415	1.35	20	
Cadmium	0.04584	0.00200	0.05	0.000105	91.5	87 - 115	0.04547	0.81	20	
Calcium	30.01	0.500	5	25.08	98.6	87 - 118	29.96	0.155	20	O
Chromium	0.2504	0.00500	0.05	0.2167	67.5	85 - 116	0.2479	1	20	SO
Cobalt	0.0436	0.00500	0.05	0.000449	86.3	86 - 115	0.04404	0.995	20	
Copper	0.04692	0.00500	0.05	0.003124	87.6	85 - 118	0.04741	1.03	20	
Iron	94.81	0.200	5	93.27	30.8	87 - 118	95.74	0.976	20	SO
Lead	0.04427	0.00500	0.05	0.00011	88.3	88 - 115	0.04436	0.214	20	
Magnesium	17.07	0.200	5	12.52	91.1	83 - 118	17	0.403	20	
Manganese	1.09	0.00500	0.05	1.071	37.2	87 - 115	1.089	0.104	20	SO
Nickel	0.0808	0.00500	0.05	0.03646	88.7	85 - 117	0.08056	0.307	20	
Potassium	7.885	0.200	5	3.349	90.7	87 - 115	7.965	1.01	20	
Selenium	0.04378	0.00500	0.05	-0.000079	87.7	80 - 120	0.04459	1.84	20	
Silver	0.04511	0.00500	0.05	0.000019	90.2	85 - 116	0.04517	0.14	20	
Sodium	90.52	0.200	5	87.4	62.6	85 - 117	90.13	0.435	20	SO
Vanadium	0.04492	0.00500	0.05	0.000753	88.3	86 - 115	0.04476	0.359	20	
Zinc	0.0503	0.00500	0.05	0.005191	90.2	83 - 119	0.04994	0.708	20	

MSD Sample ID: **HS23061825-05MSD** Units: **mg/L** Analysis Date: **13-Jul-2023 12:05**
Client ID: Run ID: **ICPMS06_441200** SeqNo: **7424665** PrepDate: **11-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Thallium	0.04614	0.00200	0.05	0.000522	91.2	82 - 116	0.04513	2.21	20	

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS23061812

QC BATCH REPORT

Batch ID: 197423 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

PDS Sample ID: **HS23061825-05PDS** Units: **mg/L** Analysis Date: **12-Jul-2023 21:40**
Client ID: Run ID: **ICPMS06_441153** SeqNo: **7423322** PrepDate: **11-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.132	0.0100	0.1	0.03456	97.4	80 - 120				
Antimony	0.08272	0.00500	0.1	0.000131	82.6	80 - 120				
Arsenic	0.09004	0.00500	0.1	0.000254	89.8	80 - 120				
Barium	0.5298	0.00500	0.1	0.4514	78.4	80 - 120				SO
Beryllium	0.08669	0.00200	0.1	0.000062	86.6	80 - 120				
Cadmium	0.0896	0.00200	0.1	0.000105	89.5	80 - 120				
Calcium	33.95	0.500	10	25.08	88.7	80 - 120				
Cobalt	0.08559	0.00500	0.1	0.000449	85.1	80 - 120				
Copper	0.08965	0.00500	0.1	0.003124	86.5	80 - 120				
Iron	99.41	0.200	10	93.27	61.4	80 - 120				SO
Lead	0.08849	0.00500	0.1	0.00011	88.4	80 - 120				
Magnesium	21.54	0.200	10	12.52	90.2	80 - 120				
Manganese	1.121	0.00500	0.1	1.071	49.6	80 - 120				SO
Nickel	0.1222	0.00500	0.1	0.03646	85.8	80 - 120				
Potassium	12.55	0.200	10	3.349	92.0	80 - 120				
Selenium	0.08771	0.00500	0.1	-0.000079	87.8	80 - 120				
Silver	0.09166	0.00500	0.1	0.000019	91.6	80 - 120				
Sodium	93.92	0.200	10	87.4	65.3	80 - 120				SO
Vanadium	0.08868	0.00500	0.1	0.000753	87.9	80 - 120				
Zinc	0.0942	0.00500	0.1	0.005191	89.0	80 - 120				

PDS Sample ID: **HS23061825-05PDS** Units: **mg/L** Analysis Date: **13-Jul-2023 12:22**
Client ID: Run ID: **ICPMS06_441200** SeqNo: **7424735** PrepDate: **11-Jul-2023** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium	0.7062	0.0250	0.5	0.2266	95.9	80 - 120				

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS23061812

QC BATCH REPORT

Batch ID: 197423 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

SD Sample ID: **HS23061825-05SD** Units: **mg/L** Analysis Date: **12-Jul-2023 21:33**
Client ID: Run ID: **ICPMS06_441153** SeqNo: **7423319** PrepDate: **11-Jul-2023** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Aluminum	0.02606	0.0500					0.03456	0	10	J
Antimony	0.00625	0.0250					0.000131	0	10	U
Arsenic	0.00625	0.0250					0.000254	0	10	U
Barium	0.4538	0.0250					0.4514	0.529	10	
Beryllium	0.00250	0.0100					0.000062	0	10	U
Cadmium	0.00250	0.0100					0.000105	0	10	U
Chromium	0.2197	0.0250					0.2167	1.4	10	
Cobalt	0.000517	0.0250					0.000449	0	10	J
Copper	0.0125	0.0250					0.003124	0	10	U
Iron	96.63	1.00					93.27	3.6	10	
Lead	0.00625	0.0250					0.00011	0	10	U
Magnesium	13.28	1.00					12.52	6.09	10	
Manganese	1.135	0.0250					1.071	5.99	10	
Nickel	0.03818	0.0250					0.03646	4.73	10	
Potassium	3.385	1.00					3.349	1.08	10	
Selenium	0.0125	0.0250					-0.000079	0	10	U
Silver	0.00250	0.0250					0.000019	0	10	U
Sodium	88.55	1.00					87.4	1.32	10	
Thallium	0.00250	0.0100					0.000522	0	10	U
Vanadium	0.00625	0.0250					0.000753	0	10	U
Zinc	0.0125	0.0250					0.005191	0	10	U

SD Sample ID: **HS23061825-05SD** Units: **mg/L** Analysis Date: **13-Jul-2023 12:20**
Client ID: Run ID: **ICPMS06_441200** SeqNo: **7424734** PrepDate: **11-Jul-2023** DF: **25**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Chromium	0.2317	0.125					0.2266	2.21	10	

The following samples were analyzed in this batch: HS23061812-01 HS23061812-04 HS23061812-05 HS23061812-06 HS23061812-07

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS23061812

QC BATCH REPORT

Batch ID: 196920 (0) **Instrument: SV-6** **Method: SEMIVOLATILES SIM**

MBLK Sample ID: **MBLK-196920** Units: **ug/L** Analysis Date: **05-Jul-2023 12:13**
Client ID: Run ID: **SV-6_440441** SeqNo: **7403351** PrepDate: **29-Jun-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.0050	0.030								U
Surr: 2-Fluorobiphenyl	*0.08781*	*0*	*0.08*	*0*	*110*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.09818*	*0*	*0.08*	*0*	*123*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.08358*	*0*	*0.08*	*0*	*104*	*40 - 140*				

MBLK Sample ID: **MBLK-196920** Units: **ug/L** Analysis Date: **03-Jul-2023 12:13**
Client ID: Run ID: **SV-6_440441** SeqNo: **7398921** PrepDate: **29-Jun-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.0050	0.030								U
Surr: 2-Fluorobiphenyl	*0.08591*	*0*	*0.08*	*0*	*107*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.09001*	*0*	*0.08*	*0*	*113*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.08388*	*0*	*0.08*	*0*	*105*	*40 - 140*				

LCS Sample ID: **LCS-196920** Units: **ug/L** Analysis Date: **05-Jul-2023 12:31**
Client ID: Run ID: **SV-6_440441** SeqNo: **7403352** PrepDate: **29-Jun-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.07718	0.030	0.08	0	96.5	40 - 140				
Surr: 2-Fluorobiphenyl	*0.08221*	*0*	*0.08*	*0*	*103*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.0885*	*0*	*0.08*	*0*	*111*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.07565*	*0*	*0.08*	*0*	*94.6*	*40 - 140*				

LCS Sample ID: **LCS1-196920** Units: **ug/L** Analysis Date: **03-Jul-2023 12:31**
Client ID: Run ID: **SV-6_440441** SeqNo: **7398922** PrepDate: **29-Jun-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.07345	0.030	0.08	0	91.8	40 - 140				
Surr: 2-Fluorobiphenyl	*0.08991*	*0*	*0.08*	*0*	*112*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.09538*	*0*	*0.08*	*0*	*119*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.08818*	*0*	*0.08*	*0*	*110*	*40 - 140*				

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS23061812

QC BATCH REPORT

Batch ID: 196920 (0) **Instrument: SV-6** **Method: SEMIVOLATILES SIM**

LCSD Sample ID: **LCSD-196920** Units: **ug/L** Analysis Date: **05-Jul-2023 12:49**
Client ID: Run ID: **SV-6_440441** SeqNo: **7403353** PrepDate: **29-Jun-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.07106	0.030	0.08	0	88.8	40 - 140	0.07345	3.32	20	
Surr: 2-Fluorobiphenyl	*0.08528*	*0*	*0.08*	*0*	*107*	*40 - 140*	*0.08991*	*5.28*	*20*	
Surr: 4-Terphenyl-d14	*0.08995*	*0*	*0.08*	*0*	*112*	*40 - 140*	*0.09538*	*5.86*	*20*	
Surr: Nitrobenzene-d5	*0.0753*	*0*	*0.08*	*0*	*94.1*	*40 - 140*	*0.08818*	*15.8*	*20*	

LCSD Sample ID: **LCSD1-196920** Units: **ug/L** Analysis Date: **03-Jul-2023 12:49**
Client ID: Run ID: **SV-6_440441** SeqNo: **7398923** PrepDate: **29-Jun-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.06948	0.030	0.08	0	86.9	40 - 140	0.07345	5.56	20	
Surr: 2-Fluorobiphenyl	*0.08694*	*0*	*0.08*	*0*	*109*	*40 - 140*	*0.08991*	*3.36*	*20*	
Surr: 4-Terphenyl-d14	*0.08969*	*0*	*0.08*	*0*	*112*	*40 - 140*	*0.09538*	*6.16*	*20*	
Surr: Nitrobenzene-d5	*0.08839*	*0*	*0.08*	*0*	*110*	*40 - 140*	*0.08818*	*0.236*	*20*	

The following samples were analyzed in this batch: HS23061812-02 HS23061812-03 HS23061812-04 HS23061812-06 HS23061812-07

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS23061812

QC BATCH REPORT

Batch ID: R440138 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-230628** Units: **ug/L** Analysis Date: **28-Jun-2023 13:41**
Client ID: Run ID: **VOA6_440138** SeqNo: **7391433** 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	1.0	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	1.0	1.0								U
1,1-Dichloroethene	0.50	1.0								U
1,1-Dichloropropene	1.0	1.0								U
1,2,3-Trichlorobenzene	0.50	1.0								U
1,2,3-Trichloropropane	1.0	1.0								U
1,2,4-Trichlorobenzene	0.50	1.0								U
1,2,4-Trimethylbenzene	1.0	1.0								U
1,2-Dibromo-3-chloropropane	0.50	1.0								U
1,2-Dibromoethane	1.0	1.0								U
1,2-Dichlorobenzene	0.50	1.0								U
1,2-Dichloroethane	1.0	1.0								U
1,2-Dichloropropane	0.50	1.0								U
1,3,5-Trimethylbenzene	1.0	1.0								U
1,3-Dichlorobenzene	0.50	1.0								U
1,3-Dichloropropane	1.0	1.0								U
1,4-Dichlorobenzene	0.50	1.0								U
2,2-Dichloropropane	1.0	1.0								U
2-Butanone	0.50	2.0								U
2-Chlorotoluene	1.0	1.0								U
2-Hexanone	0.50	2.0								U
4-Chlorotoluene	1.0	1.0								U
4-Isopropyltoluene	0.50	1.0								U
4-Methyl-2-pentanone	1.0	2.0								U
Acetone	0.50	2.0								U
Benzene	1.0	1.0								U
Bromobenzene	0.50	1.0								U
Bromochloromethane	1.0	1.0								U
Bromodichloromethane	0.50	1.0								U
Bromoform	1.0	1.0								U
Bromomethane	0.50	1.0								U

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS23061812

QC BATCH REPORT

Batch ID: R440138 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-230628** Units: **ug/L** Analysis Date: **28-Jun-2023 13:41**
Client ID: Run ID: **VOA6_440138** SeqNo: **7391433** 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	1.0	1.0								U
Chloroethane	0.50	1.0								U
Chloroform	1.0	1.0								U
Chloromethane	0.50	1.0								U
cis-1,2-Dichloroethene	1.0	1.0								U
cis-1,3-Dichloropropene	0.50	1.0								U
Dibromochloromethane	1.0	1.0								U
Dibromomethane	0.50	1.0								U
Dichlorodifluoromethane	1.0	1.0								U
Ethylbenzene	0.50	1.0								U
Hexachlorobutadiene	1.0	1.0								U
Isopropylbenzene	0.50	1.0								U
m,p-Xylene	2.0	2.0								U
Methylene chloride	0.50	2.0								U
Naphthalene	1.0	1.0								U
n-Butylbenzene	1.0	1.0								U
n-Propylbenzene	0.50	1.0								U
o-Xylene	0.50	1.0								U
sec-Butylbenzene	1.0	1.0								U
Styrene	0.50	1.0								U
tert-Butylbenzene	1.0	1.0								U
Tetrachloroethene	0.50	1.0								U
Toluene	1.0	1.0								U
trans-1,2-Dichloroethene	0.50	1.0								U
trans-1,3-Dichloropropene	1.0	1.0								U
Trichloroethene	0.50	1.0								U
Trichlorofluoromethane	1.0	1.0								U
Vinyl chloride	0.50	1.0								U
Surr: 1,2-Dichloroethane-d4	*40.53*	*1.0*	*50*	*0*	*81.1*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*46.45*	*1.0*	*50*	*0*	*92.9*	*85 - 114*				
Surr: Dibromofluoromethane	*43.97*	*1.0*	*50*	*0*	*87.9*	*80 - 119*				
Surr: Toluene-d8	*51.1*	*1.0*	*50*	*0*	*102*	*89 - 112*				

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS23061812

QC BATCH REPORT

Batch ID: R440138 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-230628** Units: **ug/L** Analysis Date: **28-Jun-2023 12:59**
Client ID: Run ID: **VOA6_440138** SeqNo: **7391432** 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	20.04	1.0	20	0	100	78 - 124				
1,1,1-Trichloroethane	17.94	1.0	20	0	89.7	74 - 131				
1,1,2,2-Tetrachloroethane	18.8	1.0	20	0	94.0	71 - 121				
1,1,2-Trichloroethane	19.79	1.0	20	0	98.9	80 - 119				
1,1-Dichloroethane	18.09	1.0	20	0	90.4	77 - 125				
1,1-Dichloroethene	18.97	1.0	20	0	94.8	71 - 131				
1,1-Dichloropropene	19.05	1.0	20	0	95.2	78 - 125				
1,2,3-Trichlorobenzene	21.81	1.0	20	0	109	69 - 129				
1,2,3-Trichloropropane	18.88	1.0	20	0	94.4	73 - 122				
1,2,4-Trichlorobenzene	21.42	1.0	20	0	107	69 - 130				
1,2,4-Trimethylbenzene	20.2	1.0	20	0	101	76 - 124				
1,2-Dibromo-3-chloropropane	20.61	1.0	20	0	103	62 - 128				
1,2-Dibromoethane	20.05	1.0	20	0	100	77 - 121				
1,2-Dichlorobenzene	21.01	1.0	20	0	105	80 - 119				
1,2-Dichloroethane	19.04	1.0	20	0	95.2	73 - 128				
1,2-Dichloropropane	19.5	1.0	20	0	97.5	78 - 122				
1,3,5-Trimethylbenzene	20.28	1.0	20	0	101	75 - 124				
1,3-Dichlorobenzene	21.06	1.0	20	0	105	80 - 119				
1,3-Dichloropropane	19.79	1.0	20	0	99.0	80 - 119				
1,4-Dichlorobenzene	20.88	1.0	20	0	104	79 - 118				
2,2-Dichloropropane	19.34	1.0	20	0	96.7	60 - 139				
2-Butanone	31.83	2.0	40	0	79.6	56 - 143				
2-Chlorotoluene	19.75	1.0	20	0	98.8	79 - 122				
2-Hexanone	35.47	2.0	40	0	88.7	57 - 139				
4-Chlorotoluene	20.31	1.0	20	0	102	78 - 122				
4-Isopropyltoluene	20.52	1.0	20	0	103	77 - 127				
4-Methyl-2-pentanone	35.65	2.0	40	0	89.1	67 - 130				
Acetone	32.15	2.0	40	0	80.4	39 - 160				
Benzene	19.73	1.0	20	0	98.6	79 - 120				
Bromobenzene	21.08	1.0	20	0	105	80 - 120				
Bromochloromethane	19.36	1.0	20	0	96.8	78 - 123				
Bromodichloromethane	18.9	1.0	20	0	94.5	79 - 125				
Bromoform	20.41	1.0	20	0	102	66 - 130				
Bromomethane	20.95	1.0	20	0	105	53 - 141				

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS23061812

QC BATCH REPORT

Batch ID: R440138 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-230628** Units: **ug/L** Analysis Date: **28-Jun-2023 12:59**
Client ID: Run ID: **VOA6_440138** SeqNo: **7391432** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	35.45	2.0	40	0	88.6	64 - 133				
Carbon tetrachloride	18.78	1.0	20	0	93.9	72 - 136				
Chlorobenzene	21.04	1.0	20	0	105	82 - 118				
Chloroethane	19.61	1.0	20	0	98.0	60 - 138				
Chloroform	17.81	1.0	20	0	89.0	79 - 124				
Chloromethane	20.49	1.0	20	0	102	50 - 139				
cis-1,2-Dichloroethene	19.08	1.0	20	0	95.4	78 - 123				
cis-1,3-Dichloropropene	19.54	1.0	20	0	97.7	75 - 124				
Dibromochloromethane	20.19	1.0	20	0	101	74 - 126				
Dibromomethane	20.2	1.0	20	0	101	79 - 123				
Dichlorodifluoromethane	19.37	1.0	20	0	96.9	32 - 152				
Ethylbenzene	20.73	1.0	20	0	104	79 - 121				
Hexachlorobutadiene	21.71	1.0	20	0	109	66 - 134				
Isopropylbenzene	20.63	1.0	20	0	103	72 - 131				
m,p-Xylene	43.21	2.0	40	0	108	80 - 121				
Methylene chloride	18.84	2.0	20	0	94.2	74 - 124				
Naphthalene	20.67	1.0	20	0	103	61 - 128				
n-Butylbenzene	20.7	1.0	20	0	104	75 - 128				
n-Propylbenzene	20.17	1.0	20	0	101	76 - 126				
o-Xylene	20.9	1.0	20	0	105	78 - 122				
sec-Butylbenzene	20.12	1.0	20	0	101	77 - 126				
Styrene	21.55	1.0	20	0	108	78 - 123				
tert-Butylbenzene	20.47	1.0	20	0	102	78 - 124				
Tetrachloroethene	20.98	1.0	20	0	105	74 - 129				
Toluene	20.66	1.0	20	0	103	80 - 121				
trans-1,2-Dichloroethene	19	1.0	20	0	95.0	75 - 124				
trans-1,3-Dichloropropene	19.35	1.0	20	0	96.8	73 - 127				
Trichloroethene	20.82	1.0	20	0	104	79 - 123				
Trichlorofluoromethane	18.85	1.0	20	0	94.3	65 - 141				
Vinyl chloride	18.92	1.0	20	0	94.6	58 - 137				
Surr: 1,2-Dichloroethane-d4	*43*	*1.0*	*50*	*0*	*86.0*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*48.53*	*1.0*	*50*	*0*	*97.1*	*85 - 114*				
Surr: Dibromofluoromethane	*47.12*	*1.0*	*50*	*0*	*94.2*	*80 - 119*				
Surr: Toluene-d8	*47.35*	*1.0*	*50*	*0*	*94.7*	*89 - 112*				

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS23061812

QC BATCH REPORT

Batch ID: R440138 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23061821-02MS** Units: **ug/L** Analysis Date: **28-Jun-2023 15:06**
Client ID: Run ID: **VOA6_440138** SeqNo: **7391437** 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	19.59	1.0	20	0	97.9	78 - 124				
1,1,1-Trichloroethane	17.36	1.0	20	0	86.8	74 - 131				
1,1,2,2-Tetrachloroethane	18.31	1.0	20	0	91.6	71 - 121				
1,1,2-Trichloroethane	18.53	1.0	20	0	92.6	80 - 119				
1,1-Dichloroethane	17.08	1.0	20	0.9801	80.5	77 - 125				
1,1-Dichloroethene	18.33	1.0	20	0	91.6	71 - 131				
1,1-Dichloropropene	19.39	1.0	20	0	97.0	78 - 125				
1,2,3-Trichlorobenzene	20.81	1.0	20	0	104	69 - 129				
1,2,3-Trichloropropane	18.88	1.0	20	0	94.4	73 - 122				
1,2,4-Trichlorobenzene	20.66	1.0	20	0	103	69 - 130				
1,2,4-Trimethylbenzene	21.36	1.0	20	0	107	76 - 124				
1,2-Dibromo-3-chloropropane	19.06	1.0	20	0	95.3	62 - 128				
1,2-Dibromoethane	18.55	1.0	20	0	92.8	77 - 121				
1,2-Dichlorobenzene	20.92	1.0	20	0	105	80 - 119				
1,2-Dichloroethane	19.02	1.0	20	1.487	87.7	73 - 128				
1,2-Dichloropropane	17.77	1.0	20	0	88.9	78 - 122				
1,3,5-Trimethylbenzene	21.83	1.0	20	0	109	75 - 124				
1,3-Dichlorobenzene	21.34	1.0	20	0	107	80 - 119				
1,3-Dichloropropane	18.75	1.0	20	0	93.7	80 - 119				
1,4-Dichlorobenzene	20.86	1.0	20	0	104	79 - 118				
2,2-Dichloropropane	18.1	1.0	20	0	90.5	60 - 139				
2-Butanone	28.82	2.0	40	0	72.1	56 - 143				
2-Chlorotoluene	20.89	1.0	20	0	104	79 - 122				
2-Hexanone	33.56	2.0	40	0	83.9	57 - 139				
4-Chlorotoluene	21.37	1.0	20	0	107	78 - 122				
4-Isopropyltoluene	22.67	1.0	20	0	113	77 - 127				
4-Methyl-2-pentanone	34.18	2.0	40	0	85.4	67 - 130				
Acetone	25.54	2.0	40	0	63.9	39 - 160				
Benzene	18.77	1.0	20	0	93.8	79 - 120				
Bromobenzene	21.2	1.0	20	0	106	80 - 120				
Bromochloromethane	16.98	1.0	20	0	84.9	78 - 123				
Bromodichloromethane	17.26	1.0	20	0	86.3	79 - 125				
Bromoform	18.74	1.0	20	0	93.7	66 - 130				
Bromomethane	14.02	1.0	20	0	70.1	53 - 141				

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS23061812

QC BATCH REPORT

Batch ID: R440138 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23061821-02MS** Units: **ug/L** Analysis Date: **28-Jun-2023 15:06**
Client ID: Run ID: **VOA6_440138** SeqNo: **7391437** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	31.55	2.0	40	0	78.9	64 - 133				
Carbon tetrachloride	20	1.0	20	0	100.0	72 - 136				
Chlorobenzene	20.29	1.0	20	0	101	82 - 118				
Chloroethane	18.62	1.0	20	0	93.1	60 - 138				
Chloroform	16.01	1.0	20	0	80.1	79 - 124				
Chloromethane	20.94	1.0	20	0	105	50 - 139				
cis-1,2-Dichloroethene	23.06	1.0	20	4.836	91.1	78 - 123				
cis-1,3-Dichloropropene	17.91	1.0	20	0	89.5	75 - 124				
Dibromochloromethane	19.11	1.0	20	0	95.5	74 - 126				
Dibromomethane	17.62	1.0	20	0	88.1	79 - 123				
Dichlorodifluoromethane	16.44	1.0	20	0	82.2	32 - 152				
Ethylbenzene	20.8	1.0	20	0	104	79 - 121				
Hexachlorobutadiene	23.3	1.0	20	0	117	66 - 134				
Isopropylbenzene	21.44	1.0	20	0	107	72 - 131				
m,p-Xylene	43.17	2.0	40	0	108	80 - 121				
Methylene chloride	19.05	2.0	20	0	95.3	74 - 124				
Naphthalene	19.55	1.0	20	0	97.8	61 - 128				
n-Butylbenzene	22.7	1.0	20	0	113	75 - 128				
n-Propylbenzene	22.09	1.0	20	0	110	76 - 126				
o-Xylene	20.41	1.0	20	0	102	78 - 122				
sec-Butylbenzene	22.62	1.0	20	0	113	77 - 126				
Styrene	20.52	1.0	20	0	103	78 - 123				
tert-Butylbenzene	22.83	1.0	20	0	114	78 - 124				
Tetrachloroethene	22.99	1.0	20	0	115	74 - 129				
Toluene	20.63	1.0	20	0	103	80 - 121				
trans-1,2-Dichloroethene	17.47	1.0	20	0	87.3	75 - 124				
trans-1,3-Dichloropropene	17.7	1.0	20	0	88.5	73 - 127				
Trichloroethene	24.12	1.0	20	3.924	101	79 - 123				
Trichlorofluoromethane	18.58	1.0	20	0	92.9	65 - 141				
Vinyl chloride	17.63	1.0	20	0	88.1	58 - 137				
Surr: 1,2-Dichloroethane-d4	*41.14*	*1.0*	*50*	*0*	*82.3*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*47.11*	*1.0*	*50*	*0*	*94.2*	*85 - 114*				
Surr: Dibromofluoromethane	*45.16*	*1.0*	*50*	*0*	*90.3*	*80 - 119*				
Surr: Toluene-d8	*51.16*	*1.0*	*50*	*0*	*102*	*89 - 112*				

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS23061812

QC BATCH REPORT

Batch ID: R440138 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS23061821-02MSD** Units: **ug/L** Analysis Date: **28-Jun-2023 15:27**
Client ID: Run ID: **VOA6_440138** SeqNo: **7391438** 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	18.99	1.0	20	0	94.9	78 - 124	19.59	3.11	20	
1,1,1-Trichloroethane	16.58	1.0	20	0	82.9	74 - 131	17.36	4.57	20	
1,1,2,2-Tetrachloroethane	16.86	1.0	20	0	84.3	71 - 121	18.31	8.26	20	
1,1,2-Trichloroethane	18.2	1.0	20	0	91.0	80 - 119	18.53	1.81	20	
1,1-Dichloroethane	16.14	1.0	20	0.9801	75.8	77 - 125	17.08	5.62	20	S
1,1-Dichloroethene	16.87	1.0	20	0	84.4	71 - 131	18.33	8.26	20	
1,1-Dichloropropene	18.26	1.0	20	0	91.3	78 - 125	19.39	6.02	20	
1,2,3-Trichlorobenzene	19.7	1.0	20	0	98.5	69 - 129	20.81	5.48	20	
1,2,3-Trichloropropane	16.99	1.0	20	0	85.0	73 - 122	18.88	10.5	20	
1,2,4-Trichlorobenzene	19.99	1.0	20	0	100.0	69 - 130	20.66	3.3	20	
1,2,4-Trimethylbenzene	19.88	1.0	20	0	99.4	76 - 124	21.36	7.17	20	
1,2-Dibromo-3-chloropropane	18.25	1.0	20	0	91.2	62 - 128	19.06	4.38	20	
1,2-Dibromoethane	17.96	1.0	20	0	89.8	77 - 121	18.55	3.27	20	
1,2-Dichlorobenzene	19.52	1.0	20	0	97.6	80 - 119	20.92	6.93	20	
1,2-Dichloroethane	18.33	1.0	20	1.487	84.2	73 - 128	19.02	3.7	20	
1,2-Dichloropropane	17.45	1.0	20	0	87.2	78 - 122	17.77	1.85	20	
1,3,5-Trimethylbenzene	20.14	1.0	20	0	101	75 - 124	21.83	8.07	20	
1,3-Dichlorobenzene	20.16	1.0	20	0	101	80 - 119	21.34	5.71	20	
1,3-Dichloropropane	18	1.0	20	0	90.0	80 - 119	18.75	4.05	20	
1,4-Dichlorobenzene	19.84	1.0	20	0	99.2	79 - 118	20.86	5.04	20	
2,2-Dichloropropane	16.88	1.0	20	0	84.4	60 - 139	18.1	6.93	20	
2-Butanone	25.05	2.0	40	0	62.6	56 - 143	28.82	14	20	
2-Chlorotoluene	19.27	1.0	20	0	96.3	79 - 122	20.89	8.1	20	
2-Hexanone	32.82	2.0	40	0	82.1	57 - 139	33.56	2.23	20	
4-Chlorotoluene	19.57	1.0	20	0	97.8	78 - 122	21.37	8.79	20	
4-Isopropyltoluene	21.08	1.0	20	0	105	77 - 127	22.67	7.28	20	
4-Methyl-2-pentanone	33.63	2.0	40	0	84.1	67 - 130	34.18	1.6	20	
Acetone	25.52	2.0	40	0	63.8	39 - 160	25.54	0.104	20	
Benzene	18.02	1.0	20	0	90.1	79 - 120	18.77	4.06	20	
Bromobenzene	19.93	1.0	20	0	99.7	80 - 120	21.2	6.16	20	
Bromochloromethane	16.66	1.0	20	0	83.3	78 - 123	16.98	1.92	20	
Bromodichloromethane	16.74	1.0	20	0	83.7	79 - 125	17.26	3.04	20	
Bromoform	18.4	1.0	20	0	92.0	66 - 130	18.74	1.84	20	
Bromomethane	15.43	1.0	20	0	77.1	53 - 141	14.02	9.58	20	

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS23061812

QC BATCH REPORT

Batch ID: R440138 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS23061821-02MSD** Units: **ug/L** Analysis Date: **28-Jun-2023 15:27**
Client ID: Run ID: **VOA6_440138** SeqNo: **7391438** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	29.16	2.0	40	0	72.9	64 - 133	31.55	7.87	20	
Carbon tetrachloride	19.17	1.0	20	0	95.9	72 - 136	20	4.22	20	
Chlorobenzene	19.63	1.0	20	0	98.1	82 - 118	20.29	3.31	20	
Chloroethane	19.98	1.0	20	0	99.9	60 - 138	18.62	7	20	
Chloroform	15.33	1.0	20	0	76.6	79 - 124	16.01	4.35	20	S
Chloromethane	17.91	1.0	20	0	89.6	50 - 139	20.94	15.6	20	
cis-1,2-Dichloroethene	21.45	1.0	20	4.836	83.1	78 - 123	23.06	7.25	20	
cis-1,3-Dichloropropene	17.43	1.0	20	0	87.1	75 - 124	17.91	2.71	20	
Dibromochloromethane	18.73	1.0	20	0	93.6	74 - 126	19.11	2.01	20	
Dibromomethane	17.71	1.0	20	0	88.5	79 - 123	17.62	0.491	20	
Dichlorodifluoromethane	15.38	1.0	20	0	76.9	32 - 152	16.44	6.66	20	
Ethylbenzene	19.79	1.0	20	0	99.0	79 - 121	20.8	4.97	20	
Hexachlorobutadiene	21.46	1.0	20	0	107	66 - 134	23.3	8.23	20	
Isopropylbenzene	20.52	1.0	20	0	103	72 - 131	21.44	4.42	20	
m,p-Xylene	40.87	2.0	40	0	102	80 - 121	43.17	5.48	20	
Methylene chloride	16.79	2.0	20	0	84.0	74 - 124	19.05	12.6	20	
Naphthalene	18.59	1.0	20	0	93.0	61 - 128	19.55	5.04	20	
n-Butylbenzene	21.21	1.0	20	0	106	75 - 128	22.7	6.78	20	
n-Propylbenzene	20.45	1.0	20	0	102	76 - 126	22.09	7.74	20	
o-Xylene	19.87	1.0	20	0	99.4	78 - 122	20.41	2.67	20	
sec-Butylbenzene	21.05	1.0	20	0	105	77 - 126	22.62	7.19	20	
Styrene	20.09	1.0	20	0	100	78 - 123	20.52	2.09	20	
tert-Butylbenzene	21.02	1.0	20	0	105	78 - 124	22.83	8.28	20	
Tetrachloroethene	21.55	1.0	20	0	108	74 - 129	22.99	6.46	20	
Toluene	19.72	1.0	20	0	98.6	80 - 121	20.63	4.52	20	
trans-1,2-Dichloroethene	16.71	1.0	20	0	83.6	75 - 124	17.47	4.4	20	
trans-1,3-Dichloropropene	17.26	1.0	20	0	86.3	73 - 127	17.7	2.53	20	
Trichloroethene	23.21	1.0	20	3.924	96.4	79 - 123	24.12	3.85	20	
Trichlorofluoromethane	16.82	1.0	20	0	84.1	65 - 141	18.58	9.98	20	
Vinyl chloride	16.29	1.0	20	0	81.4	58 - 137	17.63	7.88	20	
Surr: 1,2-Dichloroethane-d4	*40.74*	*1.0*	*50*	*0*	*81.5*	*81 - 118*	*41.14*	*0.981*	*20*	
Surr: 4-Bromofluorobenzene	*47.37*	*1.0*	*50*	*0*	*94.7*	*85 - 114*	*47.11*	*0.547*	*20*	
Surr: Dibromofluoromethane	*44.88*	*1.0*	*50*	*0*	*89.8*	*80 - 119*	*45.16*	*0.607*	*20*	
Surr: Toluene-d8	*50.86*	*1.0*	*50*	*0*	*102*	*89 - 112*	*51.16*	*0.597*	*20*	

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS23061812

QC BATCH REPORT

Batch ID: R440138 (0)	Instrument: VOA6	Method: VOLATILES ORGANICS BY METHOD 8260C

The following samples were analyzed in this batch:

HS23061812-02	HS23061812-05	HS23061812-06	HS23061812-07
HS23061812-08			

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS23061812

QC BATCH REPORT

Batch ID: R440247 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-230629** Units: **ug/L** Analysis Date: **29-Jun-2023 12:39**
Client ID: Run ID: **VOA9_440247** SeqNo: **7394054** 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	0.50	2.0								U
2-Chlorotoluene	0.50	1.0								U
2-Hexanone	0.50	2.0								U
4-Chlorotoluene	0.50	1.0								U
4-Isopropyltoluene	0.50	1.0								U
4-Methyl-2-pentanone	0.50	2.0								U
Acetone	0.50	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

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS23061812

QC BATCH REPORT

Batch ID: R440247 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-230629** Units: **ug/L** Analysis Date: **29-Jun-2023 12:39**
Client ID: Run ID: **VOA9_440247** SeqNo: **7394054** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	0.50	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	*51.09*	*1.0*	*50*	*0*	*102*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*47.17*	*1.0*	*50*	*0*	*94.3*	*85 - 114*				
Surr: Dibromofluoromethane	*48.53*	*1.0*	*50*	*0*	*97.1*	*80 - 119*				
Surr: Toluene-d8	*53.86*	*1.0*	*50*	*0*	*108*	*89 - 112*				

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS23061812

QC BATCH REPORT

Batch ID: R440247 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-230629** Units: **ug/L** Analysis Date: **29-Jun-2023 11:54**
Client ID: Run ID: **VOA9_440247** SeqNo: **7394053** 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	21.59	1.0	20	0	108	78 - 124				
1,1,1-Trichloroethane	22.86	1.0	20	0	114	74 - 131				
1,1,2,2-Tetrachloroethane	19.35	1.0	20	0	96.7	71 - 121				
1,1,2-Trichloroethane	20	1.0	20	0	100.0	80 - 119				
1,1-Dichloroethane	20.52	1.0	20	0	103	77 - 125				
1,1-Dichloroethene	21.67	1.0	20	0	108	71 - 131				
1,1-Dichloropropene	22.59	1.0	20	0	113	78 - 125				
1,2,3-Trichlorobenzene	19.49	1.0	20	0	97.5	69 - 129				
1,2,3-Trichloropropane	19.52	1.0	20	0	97.6	73 - 122				
1,2,4-Trichlorobenzene	19.84	1.0	20	0	99.2	69 - 130				
1,2,4-Trimethylbenzene	22.33	1.0	20	0	112	76 - 124				
1,2-Dibromo-3-chloropropane	17.04	1.0	20	0	85.2	62 - 128				
1,2-Dibromoethane	20.74	1.0	20	0	104	77 - 121				
1,2-Dichlorobenzene	20.88	1.0	20	0	104	80 - 119				
1,2-Dichloroethane	22.57	1.0	20	0	113	73 - 128				
1,2-Dichloropropane	20.74	1.0	20	0	104	78 - 122				
1,3,5-Trimethylbenzene	22.6	1.0	20	0	113	75 - 124				
1,3-Dichlorobenzene	21.22	1.0	20	0	106	80 - 119				
1,3-Dichloropropane	20.44	1.0	20	0	102	80 - 119				
1,4-Dichlorobenzene	20.89	1.0	20	0	104	79 - 118				
2,2-Dichloropropane	23.48	1.0	20	0	117	60 - 139				
2-Butanone	37.08	2.0	40	0	92.7	56 - 143				
2-Chlorotoluene	21.88	1.0	20	0	109	79 - 122				
2-Hexanone	36.36	2.0	40	0	90.9	57 - 139				
4-Chlorotoluene	22.27	1.0	20	0	111	78 - 122				
4-Isopropyltoluene	23.07	1.0	20	0	115	77 - 127				
4-Methyl-2-pentanone	37.75	2.0	40	0	94.4	67 - 130				
Acetone	42.4	2.0	40	0	106	39 - 160				
Benzene	21.21	1.0	20	0	106	79 - 120				
Bromobenzene	21.18	1.0	20	0	106	80 - 120				
Bromochloromethane	20.54	1.0	20	0	103	78 - 123				
Bromodichloromethane	21.72	1.0	20	0	109	79 - 125				
Bromoform	21.08	1.0	20	0	105	66 - 130				
Bromomethane	25.7	1.0	20	0	129	53 - 141				

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS23061812

QC BATCH REPORT

Batch ID: R440247 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-230629** Units: **ug/L** Analysis Date: **29-Jun-2023 11:54**
Client ID: Run ID: **VOA9_440247** SeqNo: **7394053** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	48.71	2.0	40	0	122	64 - 133				
Carbon tetrachloride	23.67	1.0	20	0	118	72 - 136				
Chlorobenzene	21.57	1.0	20	0	108	82 - 118				
Chloroethane	20.34	1.0	20	0	102	60 - 138				
Chloroform	21.4	1.0	20	0	107	79 - 124				
Chloromethane	17.48	1.0	20	0	87.4	50 - 139				
cis-1,2-Dichloroethene	21.04	1.0	20	0	105	78 - 123				
cis-1,3-Dichloropropene	20.56	1.0	20	0	103	75 - 124				
Dibromochloromethane	21.84	1.0	20	0	109	74 - 126				
Dibromomethane	21.48	1.0	20	0	107	79 - 123				
Dichlorodifluoromethane	20.59	1.0	20	0	103	32 - 152				
Ethylbenzene	22.09	1.0	20	0	110	79 - 121				
Hexachlorobutadiene	22.26	1.0	20	0	111	66 - 134				
Isopropylbenzene	23.27	1.0	20	0	116	72 - 131				
m,p-Xylene	45.97	2.0	40	0	115	80 - 121				
Methylene chloride	22.25	2.0	20	0	111	74 - 124				
Naphthalene	19.43	1.0	20	0	97.1	61 - 128				
n-Butylbenzene	22.71	1.0	20	0	114	75 - 128				
n-Propylbenzene	23.01	1.0	20	0	115	76 - 126				
o-Xylene	22.16	1.0	20	0	111	78 - 122				
sec-Butylbenzene	22.88	1.0	20	0	114	77 - 126				
Styrene	23.28	1.0	20	0	116	78 - 123				
tert-Butylbenzene	22.7	1.0	20	0	113	78 - 124				
Tetrachloroethene	22	1.0	20	0	110	74 - 129				
Toluene	21.55	1.0	20	0	108	80 - 121				
trans-1,2-Dichloroethene	21.91	1.0	20	0	110	75 - 124				
trans-1,3-Dichloropropene	19.62	1.0	20	0	98.1	73 - 127				
Trichloroethene	20.98	1.0	20	0	105	79 - 123				
Trichlorofluoromethane	24.07	1.0	20	0	120	65 - 141				
Vinyl chloride	20.84	1.0	20	0	104	58 - 137				
Surr: 1,2-Dichloroethane-d4	*51.69*	*1.0*	*50*	*0*	*103*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*51.6*	*1.0*	*50*	*0*	*103*	*85 - 114*				
Surr: Dibromofluoromethane	*50.54*	*1.0*	*50*	*0*	*101*	*80 - 119*				
Surr: Toluene-d8	*48.55*	*1.0*	*50*	*0*	*97.1*	*89 - 112*				

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS23061812

QC BATCH REPORT

Batch ID: R440247 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23061825-03MS** Units: **ug/L** Analysis Date: **29-Jun-2023 15:10**
Client ID: Run ID: **VOA9_440247** SeqNo: **7394059** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	1105	50	1000	0	110	78 - 124				
1,1,1-Trichloroethane	1081	50	1000	0	108	74 - 131				
1,1,2,2-Tetrachloroethane	901.2	50	1000	0	90.1	71 - 121				
1,1,2-Trichloroethane	973.3	50	1000	0	97.3	80 - 119				
1,1-Dichloroethane	956	50	1000	0	95.6	77 - 125				
1,1-Dichloroethene	1081	50	1000	0	108	71 - 131				
1,1-Dichloropropene	1153	50	1000	0	115	78 - 125				
1,2,3-Trichlorobenzene	868.2	50	1000	0	86.8	69 - 129				
1,2,3-Trichloropropane	902.8	50	1000	0	90.3	73 - 122				
1,2,4-Trichlorobenzene	905.1	50	1000	0	90.5	69 - 130				
1,2,4-Trimethylbenzene	1094	50	1000	0	109	76 - 124				
1,2-Dibromo-3-chloropropane	804.1	50	1000	0	80.4	62 - 128				
1,2-Dibromoethane	990.6	50	1000	0	99.1	77 - 121				
1,2-Dichlorobenzene	999.5	50	1000	0	100.0	80 - 119				
1,2-Dichloroethane	1151	50	1000	79.85	107	73 - 128				
1,2-Dichloropropane	1005	50	1000	0	101	78 - 122				
1,3,5-Trimethylbenzene	1141	50	1000	0	114	75 - 124				
1,3-Dichlorobenzene	1032	50	1000	0	103	80 - 119				
1,3-Dichloropropane	1004	50	1000	0	100	80 - 119				
1,4-Dichlorobenzene	1006	50	1000	0	101	79 - 118				
2,2-Dichloropropane	1121	50	1000	0	112	60 - 139				
2-Butanone	1574	100	2000	0	78.7	56 - 143				
2-Chlorotoluene	1086	50	1000	0	109	79 - 122				
2-Hexanone	1690	100	2000	0	84.5	57 - 139				
4-Chlorotoluene	1108	50	1000	0	111	78 - 122				
4-Isopropyltoluene	1177	50	1000	0	118	77 - 127				
4-Methyl-2-pentanone	1774	100	2000	0	88.7	67 - 130				
Acetone	1515	100	2000	0	75.7	39 - 160				
Benzene	1054	50	1000	0	105	79 - 120				
Bromobenzene	1003	50	1000	0	100	80 - 120				
Bromochloromethane	921.2	50	1000	0	92.1	78 - 123				
Bromodichloromethane	1063	50	1000	0	106	79 - 125				
Bromoform	1061	50	1000	0	106	66 - 130				
Bromomethane	1185	50	1000	0	118	53 - 141				

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS23061812

QC BATCH REPORT

Batch ID: R440247 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23061825-03MS** Units: **ug/L** Analysis Date: **29-Jun-2023 15:10**
Client ID: Run ID: **VOA9_440247** SeqNo: **7394059** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	2138	100	2000	0	107	64 - 133				
Carbon tetrachloride	1245	50	1000	0	124	72 - 136				
Chlorobenzene	1083	50	1000	0	108	82 - 118				
Chloroethane	998.3	50	1000	0	99.8	60 - 138				
Chloroform	967.2	50	1000	0	96.7	79 - 124				
Chloromethane	779.4	50	1000	0	77.9	50 - 139				
cis-1,2-Dichloroethene	994	50	1000	0	99.4	78 - 123				
cis-1,3-Dichloropropene	959.1	50	1000	0	95.9	75 - 124				
Dibromochloromethane	1097	50	1000	0	110	74 - 126				
Dibromomethane	1047	50	1000	0	105	79 - 123				
Dichlorodifluoromethane	893.1	50	1000	0	89.3	32 - 152				
Ethylbenzene	1129	50	1000	0	113	79 - 121				
Hexachlorobutadiene	1075	50	1000	0	107	66 - 134				
Isopropylbenzene	1215	50	1000	0	122	72 - 131				
m,p-Xylene	2376	100	2000	0	119	80 - 121				
Methylene chloride	994.4	100	1000	0	99.4	74 - 124				
Naphthalene	811.7	50	1000	0	81.2	61 - 128				
n-Butylbenzene	1159	50	1000	0	116	75 - 128				
n-Propylbenzene	1139	50	1000	0	114	76 - 126				
o-Xylene	1142	50	1000	0	114	78 - 122				
sec-Butylbenzene	1171	50	1000	0	117	77 - 126				
Styrene	1161	50	1000	0	116	78 - 123				
tert-Butylbenzene	1150	50	1000	0	115	78 - 124				
Tetrachloroethene	1207	50	1000	0	121	74 - 129				
Toluene	1085	50	1000	0	109	80 - 121				
trans-1,2-Dichloroethene	1027	50	1000	0	103	75 - 124				
trans-1,3-Dichloropropene	947	50	1000	0	94.7	73 - 127				
Trichloroethene	3625	50	1000	2606	102	79 - 123				
Trichlorofluoromethane	1188	50	1000	0	119	65 - 141				
Vinyl chloride	990.6	50	1000	0	99.1	58 - 137				
Surr: 1,2-Dichloroethane-d4	*2589*	*50*	*2500*	*0*	*104*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*2564*	*50*	*2500*	*0*	*103*	*85 - 114*				
Surr: Dibromofluoromethane	*2493*	*50*	*2500*	*0*	*99.7*	*80 - 119*				
Surr: Toluene-d8	*2704*	*50*	*2500*	*0*	*108*	*89 - 112*				

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS23061812

QC BATCH REPORT

Batch ID: R440247 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS23061825-03MSD** Units: **ug/L** Analysis Date: **29-Jun-2023 15:33**
Client ID: Run ID: **VOA9_440247** SeqNo: **7394060** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	1098	50	1000	0	110	78 - 124	1105	0.62	20	
1,1,1-Trichloroethane	1069	50	1000	0	107	74 - 131	1081	1.1	20	
1,1,2,2-Tetrachloroethane	947.9	50	1000	0	94.8	71 - 121	901.2	5.05	20	
1,1,2-Trichloroethane	995.5	50	1000	0	99.5	80 - 119	973.3	2.25	20	
1,1-Dichloroethane	933.7	50	1000	0	93.4	77 - 125	956	2.36	20	
1,1-Dichloroethene	1058	50	1000	0	106	71 - 131	1081	2.15	20	
1,1-Dichloropropene	1153	50	1000	0	115	78 - 125	1153	0.0741	20	
1,2,3-Trichlorobenzene	937.2	50	1000	0	93.7	69 - 129	868.2	7.65	20	
1,2,3-Trichloropropane	937.5	50	1000	0	93.7	73 - 122	902.8	3.76	20	
1,2,4-Trichlorobenzene	956.4	50	1000	0	95.6	69 - 130	905.1	5.51	20	
1,2,4-Trimethylbenzene	1143	50	1000	0	114	76 - 124	1094	4.42	20	
1,2-Dibromo-3-chloropropane	843.7	50	1000	0	84.4	62 - 128	804.1	4.8	20	
1,2-Dibromoethane	1012	50	1000	0	101	77 - 121	990.6	2.15	20	
1,2-Dichlorobenzene	1040	50	1000	0	104	80 - 119	999.5	3.95	20	
1,2-Dichloroethane	1133	50	1000	79.85	105	73 - 128	1151	1.57	20	
1,2-Dichloropropane	1019	50	1000	0	102	78 - 122	1005	1.31	20	
1,3,5-Trimethylbenzene	1175	50	1000	0	118	75 - 124	1141	2.99	20	
1,3-Dichlorobenzene	1073	50	1000	0	107	80 - 119	1032	3.88	20	
1,3-Dichloropropane	1034	50	1000	0	103	80 - 119	1004	2.94	20	
1,4-Dichlorobenzene	1053	50	1000	0	105	79 - 118	1006	4.57	20	
2,2-Dichloropropane	1073	50	1000	0	107	60 - 139	1121	4.38	20	
2-Butanone	1649	100	2000	0	82.5	56 - 143	1574	4.7	20	
2-Chlorotoluene	1101	50	1000	0	110	79 - 122	1086	1.32	20	
2-Hexanone	1768	100	2000	0	88.4	57 - 139	1690	4.52	20	
4-Chlorotoluene	1127	50	1000	0	113	78 - 122	1108	1.64	20	
4-Isopropyltoluene	1222	50	1000	0	122	77 - 127	1177	3.78	20	
4-Methyl-2-pentanone	1856	100	2000	0	92.8	67 - 130	1774	4.55	20	
Acetone	1688	100	2000	0	84.4	39 - 160	1515	10.8	20	
Benzene	1048	50	1000	0	105	79 - 120	1054	0.589	20	
Bromobenzene	1049	50	1000	0	105	80 - 120	1003	4.48	20	
Bromochloromethane	923.9	50	1000	0	92.4	78 - 123	921.2	0.287	20	
Bromodichloromethane	1083	50	1000	0	108	79 - 125	1063	1.83	20	
Bromoform	1064	50	1000	0	106	66 - 130	1061	0.238	20	
Bromomethane	1113	50	1000	0	111	53 - 141	1185	6.24	20	

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS23061812

QC BATCH REPORT

Batch ID: R440247 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS23061825-03MSD** Units: **ug/L** Analysis Date: **29-Jun-2023 15:33**
Client ID: Run ID: **VOA9_440247** SeqNo: **7394060** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	2097	100	2000	0	105	64 - 133	2138	1.93	20	
Carbon tetrachloride	1203	50	1000	0	120	72 - 136	1245	3.42	20	
Chlorobenzene	1084	50	1000	0	108	82 - 118	1083	0.0917	20	
Chloroethane	948.5	50	1000	0	94.9	60 - 138	998.3	5.11	20	
Chloroform	982.2	50	1000	0	98.2	79 - 124	967.2	1.53	20	
Chloromethane	792.8	50	1000	0	79.3	50 - 139	779.4	1.71	20	
cis-1,2-Dichloroethene	966.5	50	1000	0	96.6	78 - 123	994	2.81	20	
cis-1,3-Dichloropropene	966.1	50	1000	0	96.6	75 - 124	959.1	0.728	20	
Dibromochloromethane	1082	50	1000	0	108	74 - 126	1097	1.42	20	
Dibromomethane	1017	50	1000	0	102	79 - 123	1047	2.96	20	
Dichlorodifluoromethane	878.6	50	1000	0	87.9	32 - 152	893.1	1.63	20	
Ethylbenzene	1139	50	1000	0	114	79 - 121	1129	0.875	20	
Hexachlorobutadiene	1124	50	1000	0	112	66 - 134	1075	4.45	20	
Isopropylbenzene	1231	50	1000	0	123	72 - 131	1215	1.24	20	
m,p-Xylene	2372	100	2000	0	119	80 - 121	2376	0.163	20	
Methylene chloride	1005	100	1000	0	101	74 - 124	994.4	1.09	20	
Naphthalene	925.4	50	1000	0	92.5	61 - 128	811.7	13.1	20	
n-Butylbenzene	1203	50	1000	0	120	75 - 128	1159	3.7	20	
n-Propylbenzene	1192	50	1000	0	119	76 - 126	1139	4.58	20	
o-Xylene	1143	50	1000	0	114	78 - 122	1142	0.134	20	
sec-Butylbenzene	1217	50	1000	0	122	77 - 126	1171	3.83	20	
Styrene	1171	50	1000	0	117	78 - 123	1161	0.854	20	
tert-Butylbenzene	1200	50	1000	0	120	78 - 124	1150	4.23	20	
Tetrachloroethene	1199	50	1000	0	120	74 - 129	1207	0.625	20	
Toluene	1109	50	1000	0	111	80 - 121	1085	2.12	20	
trans-1,2-Dichloroethene	1033	50	1000	0	103	75 - 124	1027	0.615	20	
trans-1,3-Dichloropropene	971.1	50	1000	0	97.1	73 - 127	947	2.51	20	
Trichloroethene	3563	50	1000	2606	95.8	79 - 123	3625	1.72	20	
Trichlorofluoromethane	1167	50	1000	0	117	65 - 141	1188	1.81	20	
Vinyl chloride	966.4	50	1000	0	96.6	58 - 137	990.6	2.47	20	
Surr: 1,2-Dichloroethane-d4	*2532*	*50*	*2500*	*0*	*101*	*81 - 118*	*2589*	*2.23*	*20*	
Surr: 4-Bromofluorobenzene	*2523*	*50*	*2500*	*0*	*101*	*85 - 114*	*2564*	*1.59*	*20*	
Surr: Dibromofluoromethane	*2493*	*50*	*2500*	*0*	*99.7*	*80 - 119*	*2493*	*0.0188*	*20*	
Surr: Toluene-d8	*2723*	*50*	*2500*	*0*	*109*	*89 - 112*	*2704*	*0.711*	*20*	

ALS Houston, US Date: 21-Jul-23

Client:	Bhate Environmental Associates, Inc.
Project:	LHAAP 18 24
WorkOrder:	HS23061812

QC BATCH REPORT

Batch ID:	**R440247 (0)**	**Instrument:**	**VOA9**	**Method:**	**VOLATILES ORGANICS BY METHOD 8260C**

The following samples were analyzed in this batch: HS23061812-01 HS23061812-04

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS23061812

QC BATCH REPORT

Batch ID: R440378 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MBLK Sample ID: **VBLKW-230630** Units: **ug/L** Analysis Date: **30-Jun-2023 12:50**
Client ID: Run ID: **VOA9_440378** SeqNo: **7397576** 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	*50.45*	*1.0*	*50*	*0*	*101*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*47.72*	*1.0*	*50*	*0*	*95.4*	*85 - 114*				
Surr: Dibromofluoromethane	*48.46*	*1.0*	*50*	*0*	*96.9*	*80 - 119*				
Surr: Toluene-d8	*53.62*	*1.0*	*50*	*0*	*107*	*89 - 112*				

LCS Sample ID: **VLCSW-230629** Units: **ug/L** Analysis Date: **30-Jun-2023 12:06**
Client ID: Run ID: **VOA9_440378** SeqNo: **7397575** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Trichloroethene	21.2	1.0	20	0	106	79 - 123				
Surr: 1,2-Dichloroethane-d4	*48.68*	*1.0*	*50*	*0*	*97.4*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*52.02*	*1.0*	*50*	*0*	*104*	*85 - 114*				
Surr: Dibromofluoromethane	*48.87*	*1.0*	*50*	*0*	*97.7*	*80 - 119*				
Surr: Toluene-d8	*51.75*	*1.0*	*50*	*0*	*104*	*89 - 112*				

MS Sample ID: **HS23061925-22MS** Units: **ug/L** Analysis Date: **30-Jun-2023 16:57**
Client ID: Run ID: **VOA9_440378** SeqNo: **7397587** PrepDate: DF: **250**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Trichloroethene	6386	250	5000	1320	101	79 - 123				
Surr: 1,2-Dichloroethane-d4	*12520*	*250*	*12500*	*0*	*100*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*12720*	*250*	*12500*	*0*	*102*	*85 - 114*				
Surr: Dibromofluoromethane	*12310*	*250*	*12500*	*0*	*98.5*	*80 - 119*				
Surr: Toluene-d8	*13620*	*250*	*12500*	*0*	*109*	*89 - 112*				

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS23061812

QC BATCH REPORT

Batch ID: R440378 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS23061925-22MSD** Units: **ug/L** Analysis Date: **30-Jun-2023 17:19**
Client ID: Run ID: **VOA9_440378** SeqNo: **7397588** PrepDate: DF: **250**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Trichloroethene	6275	250	5000	1320	99.1	79 - 123	6386	1.76	20	
Surr: 1,2-Dichloroethane-d4	*12480*	*250*	*12500*	*0*	*99.8*	*81 - 118*	*12520*	*0.363*	*20*	
Surr: 4-Bromofluorobenzene	*12850*	*250*	*12500*	*0*	*103*	*85 - 114*	*12720*	*1.02*	*20*	
Surr: Dibromofluoromethane	*12510*	*250*	*12500*	*0*	*100*	*80 - 119*	*12310*	*1.54*	*20*	
Surr: Toluene-d8	*13520*	*250*	*12500*	*0*	*108*	*89 - 112*	*13620*	*0.749*	*20*	

The following samples were analyzed in this batch: HS23061812-01

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: **HS23061812**

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

ALS Houston, US Date: 21-Jul-23

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L23-358	31-May-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352; 2022-2023	31-Jul-2023
Louisiana	03087-2023	30-Jun-2024
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-23-31	30-Apr-2024
Utah	TX026932022-13	31-Jul-2023

ALS Houston, US Date: 21-Jul-23

Sample Receipt Checklist

Work Order ID: HS23061812 **Date/Time Received:** 27-Jun-2023 09:40

Client Name: Bhate Environmental **Received by:** Malcolm Burleson

Completed By:	/S/ Nilesh D. Ranchod	27-Jun-2023 12:43	**Reviewed by:**	/S/ James Guin	27-Jun-2023 16:52
	eSignature	Date/Time		eSignature	Date/Time

Matrices: **Water** 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 ☐		
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):	2.0C/1.9C UC/C	IR 31
Cooler(s)/Kit(s):	Black	
Date/Time sample(s) sent to storage:	06/27/2023 13:30	

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: TB received not listed on chain logged with analysis. Sample 18CPTMW06 Vials 2 of 3 & 3 of 3 received broken , MW21 Vial 3 of 3 received broken.

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

bhate ENVIRONMENTAL ASSOCIATES LIMITED

1608 13th Avenue South, Suite 300
Birmingham Alabama 35205
Tel: 205-918-4000
Fax: 205-918-4050

Page: 1 of 1

Project/Phase No: JVPCIBH.0001

COC Number(1): _____

LIMS Number: _____

Chain of Custody and Analytical Request

Facility/Base I.D.: LHAAP

Project/Site Name: LHAAP / Site 18/24

Client Name: [redacted]

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
MW22_062423	06/24/23	1235	-	N		WG	5	✓	✓	✓					
18OBTMW016_062423	06/24/23	1050	-	N		WG	5	✓	✓		✓				
AWD1_062423	06/24/23	0835	-	N		WG	1				✓				
129_062623	6/26/23	1345	-	N		WG	16	✓	✓	✓	✓				
MW6_062623	6/26/23	1205	-	N		WG	5	✓	✓	✓					
(CR) ~~MW22~~ MW21_062623	6/26/23	0850	-	N		WG	16	✓	✓	✓	✓				
109_062623	6/26/23	1040	-	N		WG	16	✓	✓	✓	✓				
			-												
			-												
			-												
			-												

Sample Analysis Requested (5) | Quality Assurance Samples (6)

COMMENTS: standard TAT

HS23061812

Bhate Environmental Associates, Inc.
LHAAP 18 24

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. [signature]	6/26/23	1430	1. MS	6 27.23	09.40
2.			2. [signature]		
3.			3. [signature]		2.0

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: _____ Shipped _____ No.:

_____ Method of Shipment: _____

_____ Fed _____ Ex _____ Airbill Number: _____

_____ Analytical Lab: ALS 10450 Stanecliff Rd. Suite 210 Houston TX 77099 (281) 530-5656

ATTN: Dane Wacasey 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)

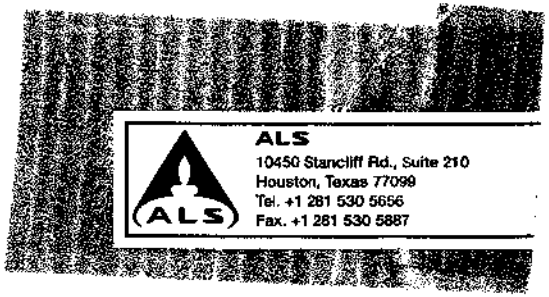
3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

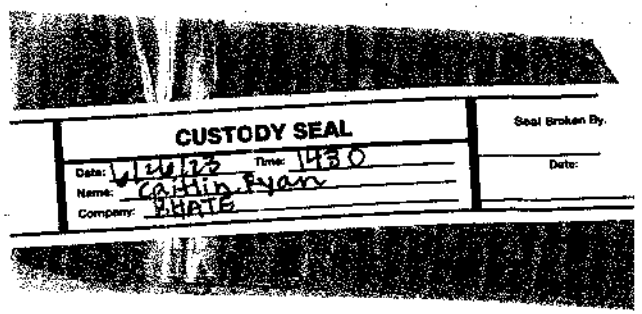
4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

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

ALS


ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887


CUSTODY SEAL
Seal Broken By:
Date:
Time: 1450
Name: Caitlin Ryan
Company: EHATE

3001 0593
XA SGRA
PRIORITY OVERNIGHT
77099
TX-US
IAH

June 30, 2023 Service Request No:E2300616

James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099

Laboratory Results for: HS23061812

Dear James,

Enclosed are the results of the sample(s) submitted to our laboratory June 27, 2023
For your reference, these analyses have been assigned our service request number **E2300616.**

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 2188. You may also contact me via email at James.Guin@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

James Guin

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

ALS Environmental

Client:	ALS Environmental – US	**Service Request No.:**	E2300616
Project:	HS23061812	**Date Received:**	06/27/23
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

Six samples were received for analysis at ALS Environmental in Houston on 06/27/23.

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:

EQ2300317: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

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:**E2300616
Project: HS23061812

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2300616-001	MW22_062423	6/24/2023	1235
E2300616-002	18CPTMW06_062423	6/24/2023	1050
E2300616-003	129_062623	6/26/2023	1345
E2300616-004	MW6_062623	6/26/2023	1205
E2300616-005	MW21_062623	6/26/2023	0850
E2300616-006	109_062623	6/26/2023	1040

Service Request Summary

Folder #: **E2300616**
Client Name: ALS Environmental - US
Project Name: HS23061812
Project Number:

Report To: James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number:
E-mail: james.guin@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 06/27/23
Internal Due Date: 7/12/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23061812
EDD: BASIC_WQC_CASNo_LOD

6 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2300616-001	MW22_062423	Ground Water	06/24/23 1235	**IV**
E2300616-002	18CPTMW06_062423	Ground Water	06/24/23 1050	**IV**
E2300616-003	129_062623	Ground Water	06/26/23 1345	**IV**
E2300616-004	MW6_062623	Ground Water	06/26/23 1205	**IV**
E2300616-005	MW21_062623	Ground Water	06/26/23 0850	**IV**
E2300616-006	109_062623	Ground Water	06/26/23 1040	**IV**

Service Request Summary

Folder #: **E2300616**
Client Name: ALS Environmental - US
Project Name: HS23061812
Project Number:

Report To: James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number:
E-mail: james.guin@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 06/27/23
Internal Due Date: 7/12/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23061812
EDD: BASIC_WQC_CASNo_LOD

6 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
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

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ALS Environmental

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793_2024	5/27/2024
Arkansas Department of Environmental Quality	88-00356	3/27/2024
California State Environmental Laboratory Accreditation Program	2919	4/30/2024
Department of Defense	L23-358	5/31/2025
Department of Defense	L22-90	3/31/2024
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2022-2023	7/31/2023
Louisiana Department of Health and Hospitals	LA028-2023	12/31/2023
Maine Department of Health and Human Services	2022017	6/5/2024
Michigan Depratment of Environmental Quality	9971-2023	4/30/2024
Minnesota Department of Health	2368363	12/31/2023
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2024
Nevada Department of Conservation and Natural Resources	TX026932023-1	7/31/2023
New Hampshire Environmental Laboratory Accreditation Program	209423	4/24/2024
New York Department of Health	11707	3/31/2024
Oklahoma Department of Environmental Quality	2022-141	8/31/2023
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Concervation	TN04016-2023	4/30/2024
Texas Commision on Environmental Quality	T104704231-23-30	4/30/2024
Utah Department of Health Environmental Laboratory Certification	TX026932022-13	7/31/2023
Washington Department of Ecology	C819-22	11/14/2023

ALS

Chain of Custody

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Subcontract Chain of Custody

SAMPLING STATE: Texas **COC ID:** 22167

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:	HS23061812
TSR:	Holly Tignac

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS23061812-01**	**MW22_062423**	**Groundwater**	**24 Jun 2023 12:35**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			12 Jul 2023
2.	**HS23061812-02**	**18CPTMW06_062423**	**Groundwater**	**24 Jun 2023 10:50**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			12 Jul 2023
3.	**HS23061812-04**	**129_062623**	**Groundwater**	**26 Jun 2023 13:45**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			12 Jul 2023
4.	**HS23061812-05**	**MW6_062623**	**Groundwater**	**26 Jun 2023 12:05**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			12 Jul 2023
5.	**HS23061812-06**	**MW21_062623**	**Groundwater**	**26 Jun 2023 08:50**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			12 Jul 2023
6.	**HS23061812-07**	**109_062623**	**Groundwater**	**26 Jun 2023 10:40**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			12 Jul 2023

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: 22167

Relinquished By: NR

Date/Time:

Received By: CR

Date/Time: 6-27-23 1800

Cooler ID(s):

Temperature(s):

ALS Environmental

Cooler Receipt Form

Project Chemist JK

Client/Project ALS

Thermometer ID IR31

Date/Time Received: 6.22.23 Initials: CG

Date/Time Logged in: 6.22.23 Initials CG

1. Method of delivery: ○ US Mail ○ Fed Ex ○ UPS ○ DHL ☒ ALS Courier ○ Client

2. Samples received in: ☒ Cooler ○ Box ○ Envelope ○ Other

3. Were custody seals on coolers? ○ Yes ☒ No

Were they intact? ○ Yes ○ No ☒ N/A

Were they signed and dated? ○ Yes ○ No ☒ N/A

If yes, how many and where?

4. Packing Material: ○ Inserts ☒ Baggies ○ Bubble Wrap ○ Gel Packs ☒ Wet Ice ○ Sleeves ○ Other

5. Foreign or Regulated Soil? ○ Yes ○ No Location of Sampling:

Cooler Tracking Number	COC ID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?
—		6.22.23	1500	CG	5.2	☒
						☐
						☐
						☐

6. Were custody papers properly filled out (ink, signed, dated, etc)? ☒ Yes ○ No

7. Did all bottles arrive in good condition (not broken, no signs of leakage)? ☒ Yes ○ No

8. Were all sample labels complete (i.e., sample ID, analysis, preservation, etc)? ☒ Yes ○ No

9. Were appropriate bottles/containers and volumes received for the requested tests? ☒ Yes ○ No

10. Did sample labels and tags agree with custody documents? ☒ Yes ○ No

Notes, Discrepancies, & Resolutions:

Service request Label:

HS-HRMSCoolerReceipt R1.0

ALS Environmental - Houston HRMS

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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
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Preparation Information Benchsheet

Prep Run#: 422284 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 6/28/23 11:04

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2300614-001	125_062623	.01	6850/ClO4 DOD			Ground Water	10mL	
2	E2300614-002	MW3_062623	.01	6850/ClO4 DOD			Ground Water	10mL	
3	E2300614-003	MW23_062623	.02	6850/ClO4 DOD			Ground Water	10mL	
4	E2300614-004	MW9_062623	.01	6850/ClO4 DOD			Ground Water	10mL	
5	E2300614-005	MW13_062623	.02	6850/ClO4 DOD			Ground Water	10mL	
6	E2300614-006	CO2_062623	.01	6850/ClO4 DOD			Ground Water	10mL	
7	E2300614-007	18WW10_062623	.01	6850/ClO4 DOD			Ground Water	10mL	
8	E2300614-008	MW17_062623	.01	6850/ClO4 DOD			Ground Water	10mL	
9	E2300614-009	MW16_062623	.01	6850/ClO4 DOD			Ground Water	10mL	
10	E2300616-001	MW22_062423	.01	6850/ClO4 DOD			Ground Water	10mL	
11	E2300616-002	18CPTMW06_062423	.01	6850/ClO4 DOD			Ground Water	10mL	
12	E2300616-003	129_062623	.01	6850/ClO4 DOD			Ground Water	10mL	
13	E2300616-004	MW6_062623	.01	6850/ClO4 DOD			Ground Water	10mL	
14	E2300616-005	MW21_062623	.01	6850/ClO4 DOD			Ground Water	10mL	
15	E2300616-006	109_062623	.01	6850/ClO4 DOD			Ground Water	10mL	
16	E2300617-001	LH18/24-SP650_062723_AIX	.01	6850/ClO4 DOD			Water	10mL	
17	E2300617-002	LH18/24-SP650_062723_BIX	.01	6850/ClO4 DOD			Water	10mL	
18	EQ2300317-01	MB		6850/ClO4			Liquid	10mL	
19	EQ2300317-02	LCS		6850/ClO4			Liquid	10mL	
20	EQ2300317-03	DLCS		6850/ClO4			Liquid	10mL	
21	EQ2300317-04	MW23_062623 MS	.02	6850/ClO4 DOD			Liquid	10mL	
22	EQ2300317-05	MW23_062623 DMS	.02	6850/ClO4 DOD			Liquid	10mL	
23	EQ2300317-06	MW13_062623 MS	.02	6850/ClO4 DOD			Liquid	10mL	
24	EQ2300317-07	MW13_062623 DMS	.02	6850/ClO4 DOD			Liquid	10mL	
25	K2307221-001	LGAC-INF-062623	.01	6850/ClO4			Water	10mL	
26	K2307221-002	LGAC-INT1-062623	.01	6850/ClO4			Water	10mL	
27	K2307221-003	LGAC-INT2-062623	.01	6850/ClO4			Water	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock1 Inventory ID 227236 Logbook Ref: Perchlorate (1st Source) Expires On: 07/31/2023

EQ2300317-02 1.00µL EQ2300317-02 1.00µL EQ2300317-03 1.00µL EQ2300317-03 1.00µL EQ2300317-04 1.00µL EQ2300317-05 1.00µL
EQ2300317-06 1.00µL EQ2300317-07 1.00µL

Preparation Information Benchsheet

Prep Run#: 422284 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 6/28/23 11:04

Name:	Perchlorate Internal Standard 1ug/mL	Inventory ID	227244	Logbook Ref:	Perchlorate Internal Standard	Expires On:	07/31/2023

E2300614-001	100.00µL	E2300614-002	100.00µL	E2300614-003	100.00µL	E2300614-004	100.00µL	E2300614-005	100.00µL	E2300614-006	100.00µL
E2300614-007	100.00µL	E2300614-008	100.00µL	E2300614-009	100.00µL	E2300616-001	100.00µL	E2300616-002	100.00µL	E2300616-003	100.00µL
E2300616-004	100.00µL	E2300616-005	100.00µL	E2300616-006	100.00µL	E2300617-001	100.00µL	E2300617-002	100.00µL	EQ2300317-01	100.00µL
EQ2300317-01	100.00µL	EQ2300317-02	100.00µL	EQ2300317-02	100.00µL	EQ2300317-03	100.00µL	EQ2300317-03	100.00µL	EQ2300317-04	100.00µL
EQ2300317-05	100.00µL	EQ2300317-06	100.00µL	EQ2300317-07	100.00µL	K2307221-001	100.00µL	K2307221-002	100.00µL	K2307221-003	100.00µL

Preparation Steps

Step: Preparation
Started: 6/28/23 11:04
Finished: 6/28/23 12:02
By: XMI
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300616
Project:	HS23061812	**Date Collected:**	6/24/23 1235
Sample Matrix:	Ground Water	**Date Received:**	6/27/23
Sample Name:	MW22_062423	**Units:**	µg/L
Lab Code:	E2300616-001	**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	**2230**		10.0	5.00	2.50	100	6/28/23	6/30/23 10:40	422284	809342	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300616
Project:	HS23061812	**Date Collected:**	6/24/23 1050
Sample Matrix:	Ground Water	**Date Received:**	6/27/23
Sample Name:	18CPTMW06_062423	**Units:**	µg/L
Lab Code:	E2300616-002	**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	**0.0464**	J	0.100	0.0500	0.0250	1	6/28/23	6/30/23 10:46	422284	809342	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300616
Project:	HS23061812	**Date Collected:**	6/26/23 1345
Sample Matrix:	Ground Water	**Date Received:**	6/27/23
Sample Name:	129_062623	**Units:**	µg/L
Lab Code:	E2300616-003	**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	**1820**		10.0	5.00	2.50	100	6/28/23	6/30/23 10:57	422284	809342	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300616
Project:	HS23061812	**Date Collected:**	6/26/23 1205
Sample Matrix:	Ground Water	**Date Received:**	6/27/23
Sample Name:	MW6_062623	**Units:**	µg/L
Lab Code:	E2300616-004	**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	**3140**		10.0	5.00	2.50	100	6/28/23	6/30/23 11:02	422284	809342	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300616
Project:	HS23061812	**Date Collected:**	6/26/23 0850
Sample Matrix:	Ground Water	**Date Received:**	6/27/23
Sample Name:	MW21_062623	**Units:**	µg/L
Lab Code:	E2300616-005	**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	6/28/23	6/30/23 11:08	422284	809342	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300616
Project:	HS23061812	**Date Collected:**	6/26/23 1040
Sample Matrix:	Ground Water	**Date Received:**	6/27/23
Sample Name:	109_062623	**Units:**	µg/L
Lab Code:	E2300616-006	**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	**2870**		10.0	5.00	2.50	100	6/28/23	6/30/23 11:13	422284	809342	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300616
Project:	HS23061812	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2300317-01	**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	6/28/23	6/28/23 14:19	422284	809096	

Accuracy & Precision

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300616
Project:	HS23061812	**Date Analyzed:**	6/28/23
Sample Matrix:	Ground Water		

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

Analytical Method:	6850	**Units:**	µg/L
Prep Method:	Method	**Basis:**	NA
		Extraction Lot:	422284

	Lab Control Sample EQ2300317-02			Duplicate Lab Control Sample EQ2300317-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.110	0.100	110	0.104	0.100	104	84 - 119	5	15

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

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300616
Project:	HS23061812	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300317-02	**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	6/28/23	6/28/23 14:24	422284	809096	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300616
Project:	HS23061812	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300317-03	**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	**0.104**		0.100	0.0500	0.0250	1	6/28/23	6/28/23 14:30	422284	809096	

Initial Calibration

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20230629-809329

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XM
2nd Review: GC

ICAL Date: 6/29/2023
Cal. Std. xp: 06/29/2023
ICAL ID: EC2300011

Mobile Phases : A:20mM ammonium acetate in water 32103046 **B:**Acetonitrile 226552

	Sample Name		File Name	Acquisition Method	Dilution	Comments	Date/Time
1	PERCHLORATE1		20230629-001	Perchlorate6850c.lcm	1x	227245	6/29/2023 12:59
2	PERCHLORATE2		20230629-002	Perchlorate6850c.lcm	1x	227246	6/29/2023 13:05
3	PERCHLORATE3		20230629-003	Perchlorate6850c.lcm	1x	227247	6/29/2023 13:10
4	PERCHLORATE4		20230629-004	Perchlorate6850c.lcm	1x	227248	6/29/2023 13:16
5	PERCHLORATE5		20230629-005	Perchlorate6850c.lcm	1x	227249	6/29/2023 13:21
6	PERCHLORATE6		20230629-006	Perchlorate6850c.lcm	1x	227250	6/29/2023 13:27
7	PERCHLORATE7		20230629-007	Perchlorate6850c.lcm	1x	227251	6/29/2023 13:32
8	PERCHLORATE8		20230629-008	Perchlorate6850c.lcm	1x	227252	6/29/2023 13:38
9	PERCHLORATE9		20230629-009	Perchlorate6850c.lcm	1x	227253	6/29/2023 13:43
10	PERCHLORATE10		20230629-010	Perchlorate6850c.lcm	1x	227254	6/29/2023 13:49
11	PERCHLORATEICV		20230629-011	Perchlorate6850c.lcm	1x	227256	6/29/2023 13:55
12	IB		20230629-012	Perchlorate6850c.lcm	1x		6/29/2023 14:00
13	LODV		20230629-013	Perchlorate6850c.lcm	1x	227501	6/29/2023 14:06
14	ICS		20230629-014	Perchlorate6850c.lcm	1x	32103024	6/29/2023 14:11
15	CCV		20230629-015	Perchlorate6850c.lcm	1x	227251	6/29/2023 14:17
16	EQ2300312-01		20230629-016	Perchlorate6850c.lcm	1x		6/29/2023 14:22
17	EQ2300312-02		20230629-017	Perchlorate6850c.lcm	1x	DNU-RR	6/29/2023 14:28
18	EQ2300312-03		20230629-018	Perchlorate6850c.lcm	1x		6/29/2023 14:33
19	E2300606-001		20230629-019	Perchlorate6850c.lcm	10x		6/29/2023 14:39
20	EQ2300312-04		20230629-020	Perchlorate6850c.lcm	1x		6/29/2023 14:44
21	EQ2300312-05		20230629-021	Perchlorate6850c.lcm	1x		6/29/2023 14:50
22	E2300606-002		20230629-022	Perchlorate6850c.lcm	5x		6/29/2023 14:55
23	E2300606-003		20230629-023	Perchlorate6850c.lcm	10x		6/29/2023 15:01
24	E2300606-004		20230629-024	Perchlorate6850c.lcm	10x		6/29/2023 15:06
25	E2300606-005		20230629-025	Perchlorate6850c.lcm	1x		6/29/2023 15:12
26	CCV		20230629-026	Perchlorate6850c.lcm	1x	227251	6/29/2023 15:17
27	E2300606-006		20230629-027	Perchlorate6850c.lcm	1x		6/29/2023 15:23
28	E2300606-007		20230629-028	Perchlorate6850c.lcm	500x		6/29/2023 15:28
29	E2300606-008		20230629-029	Perchlorate6850c.lcm	100x		6/29/2023 15:34
30	EQ2300312-06		20230629-030	Perchlorate6850c.lcm	100x		6/29/2023 15:40
31	EQ2300312-07		20230629-031	Perchlorate6850c.lcm	100x		6/29/2023 15:45
32	E2300606-009		20230629-032	Perchlorate6850c.lcm	1x		6/29/2023 15:53
33	E2300610-001		20230629-033	Perchlorate6850c.lcm	10000x		6/29/2023 15:58
34	E2300610-002		20230629-034	Perchlorate6850c.lcm	1x		6/29/2023 16:04
35	E2300610-003		20230629-035	Perchlorate6850c.lcm	1x		6/29/2023 16:09
36	E2300610-004		20230629-036	Perchlorate6850c.lcm	1x		6/29/2023 16:15
37	CCV		20230629-037	Perchlorate6850c.lcm	1x	227251	6/29/2023 16:21

20230629-809329

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XM
2nd Review: GC

ICAL Date: 6/29/2023
Cal. Std. xp: 06/29/2023
ICAL ID: EC2300011

Mobile Phases : A:20mM ammonium acetate in water 32103046 **B:**Acetonitrile 226552

	Sample Name		File Name	Acquisition Method	Dilution	Comments	Date/Time
38	E2300610-005		20230629-038	Perchlorate6850c.lcm	1x		6/29/2023 16:26
39	E2300610-006		20230629-039	Perchlorate6850c.lcm	1x		6/29/2023 16:32
40	E2300610-007		20230629-040	Perchlorate6850c.lcm	1x		6/29/2023 16:37
41	E2300610-008		20230629-041	Perchlorate6850c.lcm	1x	DNU-D	6/29/2023 16:43
42	EQ2300312-08		20230629-042	Perchlorate6850c.lcm	1x		6/29/2023 16:48
43	EQ2300312-09		20230629-043	Perchlorate6850c.lcm	1x		6/29/2023 16:54
44	E2300611-001		20230629-044	Perchlorate6850c.lcm	1x		6/29/2023 16:59
45	E2300611-002		20230629-045	Perchlorate6850c.lcm	1x		6/29/2023 17:05
46	E2300611-003		20230629-046	Perchlorate6850c.lcm	1x		6/29/2023 17:10
47	E2300611-004		20230629-047	Perchlorate6850c.lcm	1x	DNU-D	6/29/2023 17:16
48	CCV		20230629-048	Perchlorate6850c.lcm	1x	227251	6/29/2023 17:21
49	E2300611-005		20230629-049	Perchlorate6850c.lcm	1x		6/29/2023 17:27
50	E2300611-006		20230629-050	Perchlorate6850c.lcm	1x	DNU-D	6/29/2023 17:32
51	E2300611-007		20230629-051	Perchlorate6850c.lcm	1x	DNU-D	6/29/2023 17:38
52	E2300611-008		20230629-052	Perchlorate6850c.lcm	1x		6/29/2023 17:43
53	E2300611-009		20230629-053	Perchlorate6850c.lcm	1x		6/29/2023 17:49
54	E2300611-010		20230629-054	Perchlorate6850c.lcm	1x		6/29/2023 17:55
55	CCV		20230629-055	Perchlorate6850c.lcm	1x	227251	6/29/2023 18:06

Initial Calibration - Detailed Report

Calibration ID: EC2300011 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2300011-01	PERCHLORATE1	20230629-001	06/29/2023 12:59
02	EC2300011-02	PERCHLORATE2	20230629-002	06/29/2023 13:05
03	EC2300011-03	PERCHLORATE3	20230629-003	06/29/2023 13:10
04	EC2300011-04	PERCHLORATE4	20230629-004	06/29/2023 13:16
05	EC2300011-05	PERCHLORATE5	20230629-005	06/29/2023 13:21
06	EC2300011-06	PERCHLORATE6	20230629-006	06/29/2023 13:27
07	EC2300011-07	PERCHLORATE7	20230629-007	06/29/2023 13:32
08	EC2300011-08	PERCHLORATE8	20230629-008	06/29/2023 13:38
09	EC2300011-09	PERCHLORATE9	20230629-009	06/29/2023 13:43
10	EC2300011-10	PERCHLORATE10	20230629-010	06/29/2023 13:49

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

Perchlorate **Average RF** **RSD = 2.809** **Average RF = 0.1625**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1678	02	0.5000	0.1574	03	0.7000	0.1599	04	1.0000	0.1567
05	2.0000	0.1596	06	5.0000	0.1641	07	10.0000	0.1704	08	20.0000	0.1667
09	30.0000	0.1608	10	50.0000	0.1619						

Analyte

Perchlorate RSE = 2.81

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.103	3.2	02	0.5000	0.484	-3.1	03	0.7000	0.689	-1.6
04	1.0000	0.964	-3.6	05	2.0000	1.96	-1.8	06	5.0000	5.05	1.0
07	10.0000	10.5	4.8	08	20.0000	20.5	2.6	09	30.0000	29.7	-1.1
10	50.0000	49.8	-0.4								

Initial Calibration Verification Summary Report

Calibration ID:	EC2300011	**Instrument ID:**	E-LCMS-01
Datafile ID:	20230629-011	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2300011-11	T	Average RF	10	9.913	ng/mL	-0.9	<= 15

Insight Report

Printed at 6/29/2023 2:17:05 PM

Method File: I:\LCMS01\DATA\20230628\06282023.lcm
Project File: I:\LCMS01\DATA\20230628\06282023.damlp

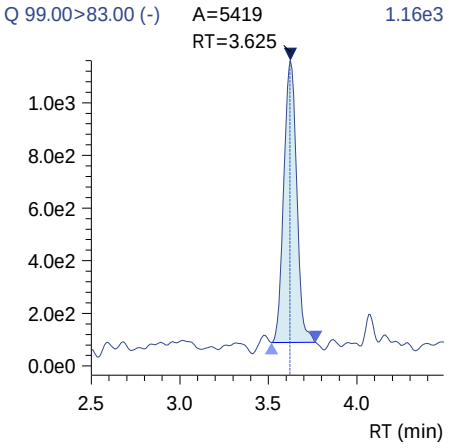
PERCHLORATE1

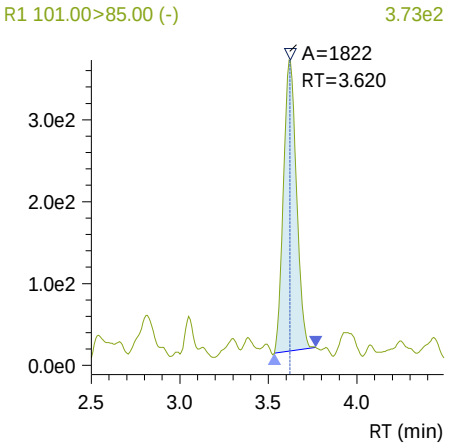
Sample ID: PERCHLORATE1
Date Acquired: 6/29/2023 12:59:40 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.625	5419	323018	0.1032	ng/mL	101.00 >85.00	33.63	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.617	323018	323018	1.0000	ng/mL	----	----	

Perchlorate

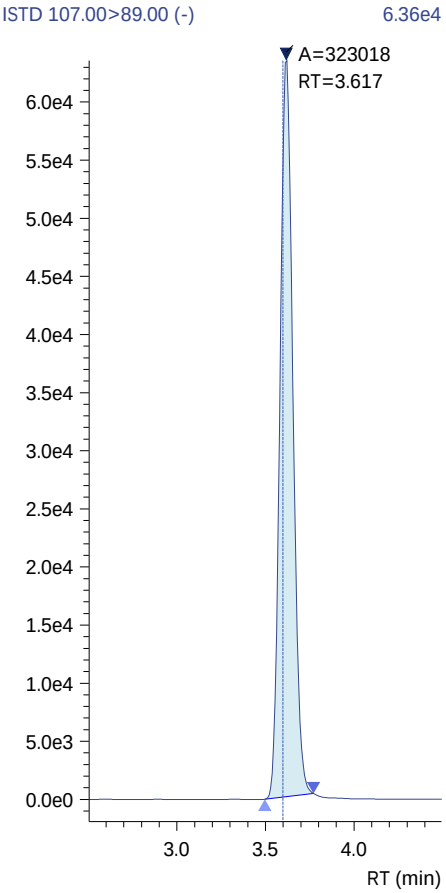
Conc 0.1032
R#1 33.63 (32.02)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/29/2023 2:17:05 PM

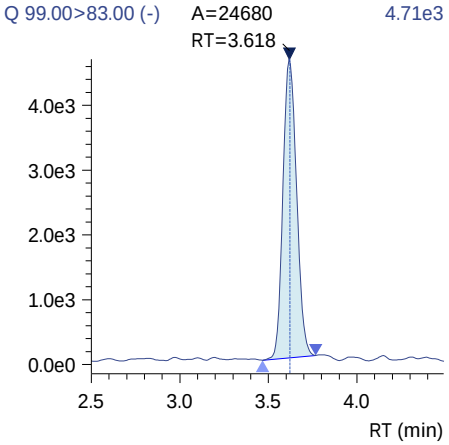
PERCHLORATE2

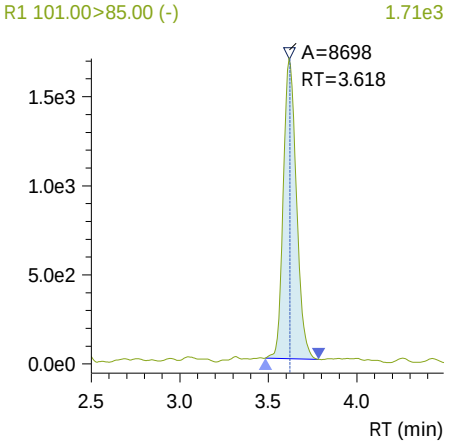
Sample ID: PERCHLORATE2
Date Acquired: 6/29/2023 1:05:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-002.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.618	24680	313519	0.4844	ng/mL	101.00 >85.00	35.24	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.618	313519	313519	1.0000	ng/mL	----	----	

Perchlorate

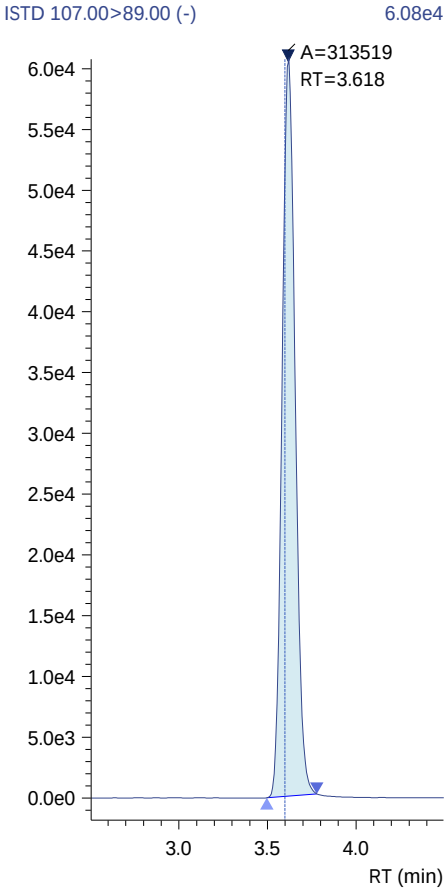
Conc 0.4844
R#1 35.24 (32.02)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/29/2023 2:17:05 PM

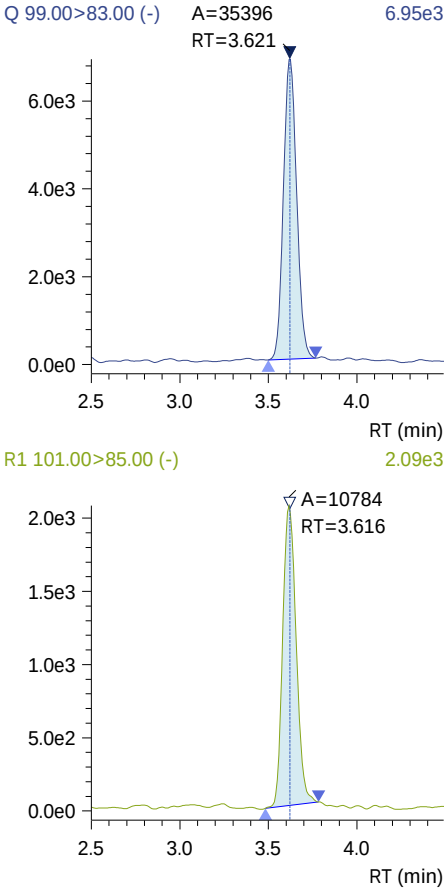
PERCHLORATE3

Sample ID: PERCHLORATE3
Date Acquired: 6/29/2023 1:10:46 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-003.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	Auto	3.621	35396	316311	0.6886	ng/mL	101.00 >85.00	30.47	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.618	316311	316311	1.0000	ng/mL	----	----	

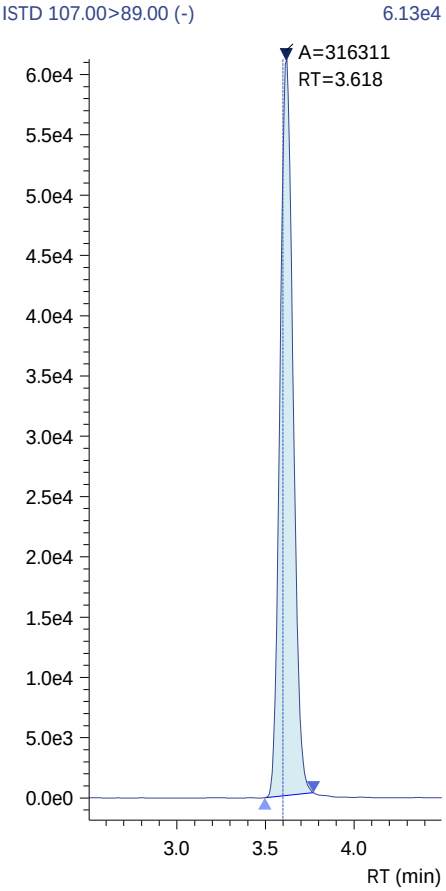
Perchlorate

Conc 0.6886
R#1 30.47 (32.02)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/29/2023 2:17:05 PM

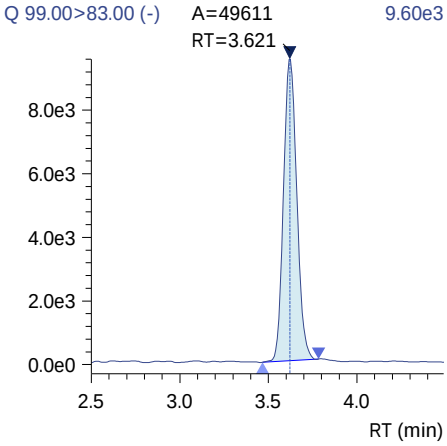
PERCHLORATE4

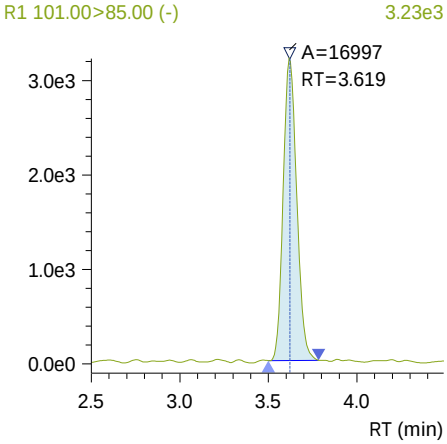
Sample ID: PERCHLORATE4
Date Acquired: 6/29/2023 1:16:19 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-004.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.621	49611	316580	0.9643	ng/mL	101.00 >85.00	34.26	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.618	316580	316580	1.0000	ng/mL	----	----	

Perchlorate

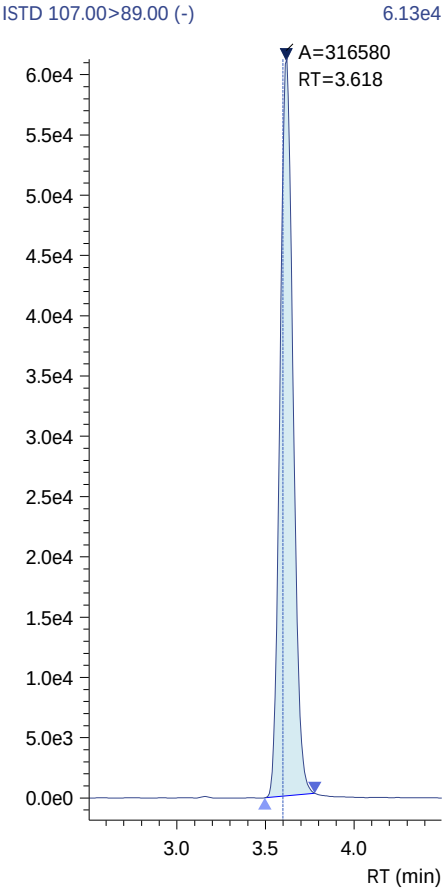
Conc 0.9643
R#1 34.26 (32.02)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/29/2023 2:17:05 PM

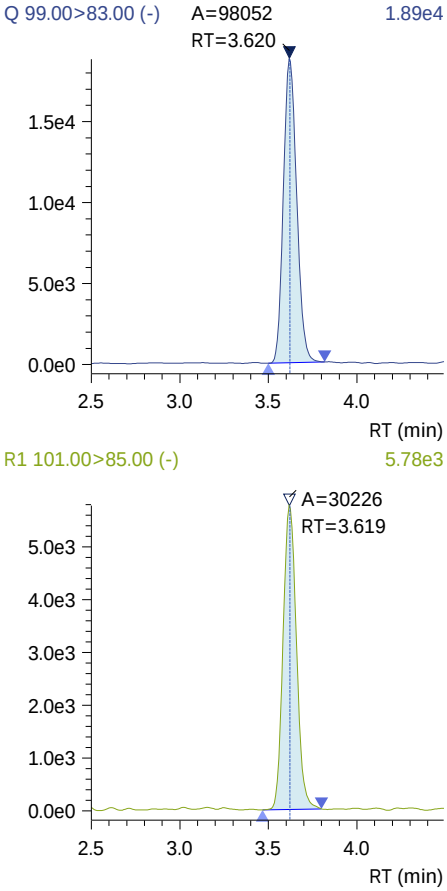
PERCHLORATE5

Sample ID: PERCHLORATE5
Date Acquired: 6/29/2023 1:21:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-005.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	Auto	3.620	98052	307162	1.9642	ng/mL	101.00 >85.00	30.83	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.617	307162	307162	1.0000	ng/mL	----	----	

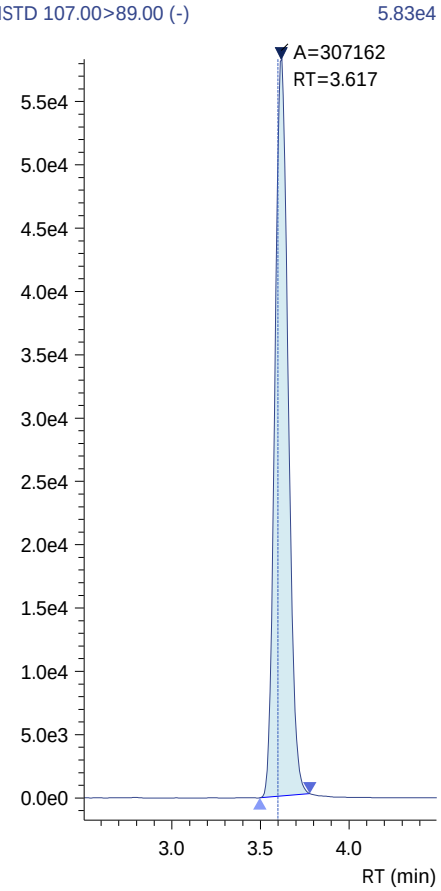
Perchlorate

Conc 1.9642
R#1 30.83 (32.02)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/29/2023 2:17:05 PM

PERCHLORATE6

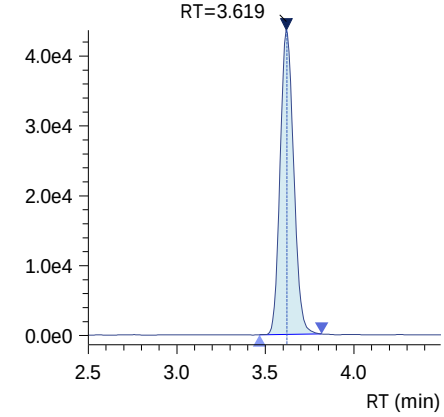
Sample ID: PERCHLORATE6
Date Acquired: 6/29/2023 1:27:22 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-006.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.619	232011	282827	5.0477	ng/mL	101.00 >85.00	31.17	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.617	282827	282827	1.0000	ng/mL	----	----	

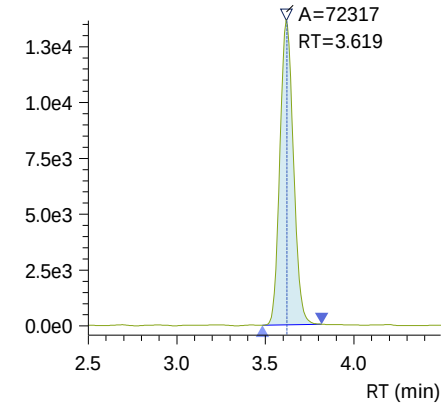
Perchlorate

Conc 5.0477
R#1 31.17 (32.02)

Q 99.00>83.00 (-) A=232011 RT=3.619 4.37e4



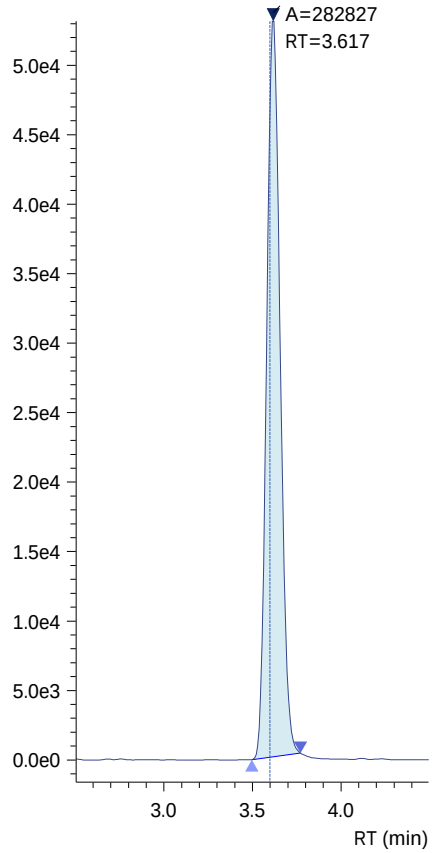
R1 101.00>85.00 (-) 1.37e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.32e4



Insight Report

Printed at 6/29/2023 2:17:05 PM

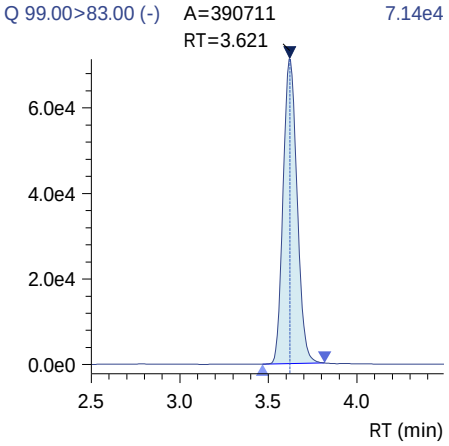
PERCHLORATE7

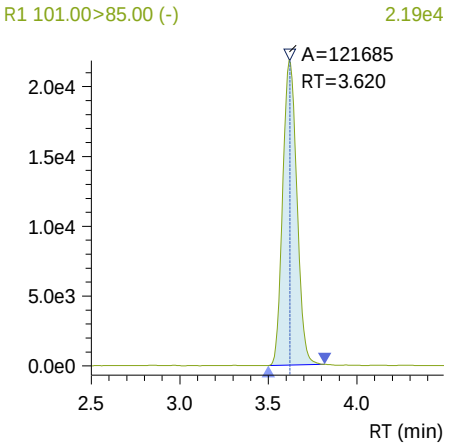
Sample ID: PERCHLORATE7
Date Acquired: 6/29/2023 1:32:51 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-007.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.621	390711	229327	10.48 35	ng/mL	101.00 >85.00	31.14	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.616	229327	229327	1.0000	ng/mL	----	----	

Perchlorate

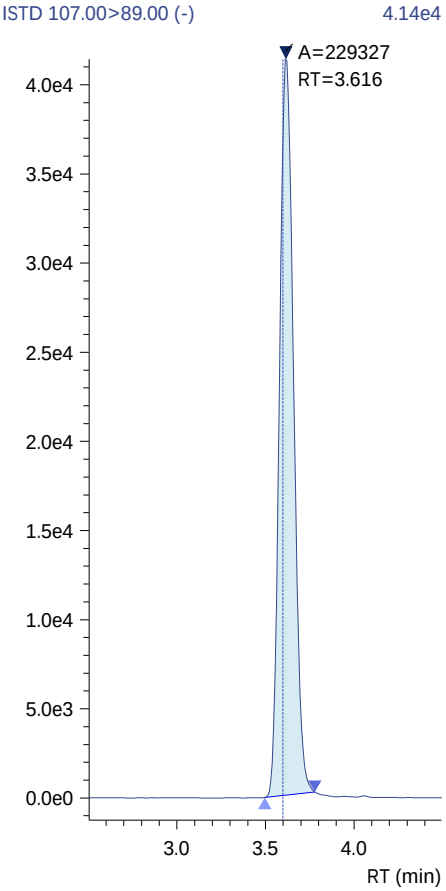
Conc 10.4835
R#1 31.14 (32.02)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/29/2023 2:17:05 PM

PERCHLORATE8

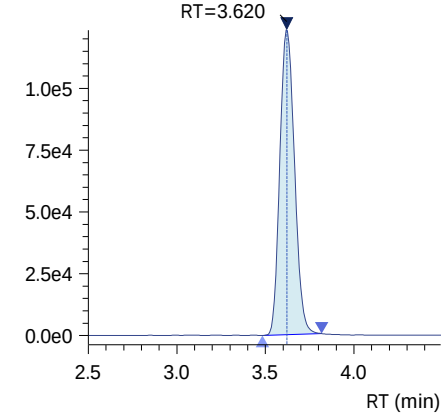
Sample ID: PERCHLORATE8
Date Acquired: 6/29/2023 1:38:22 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-008.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.620	710430	213093	20.5144	ng/mL	101.00 >85.00	31.25	22.41-41.62
Sodium Perchlorate-18O4_IS	Auto	3.615	213093	213093	1.0000	ng/mL	----	----	

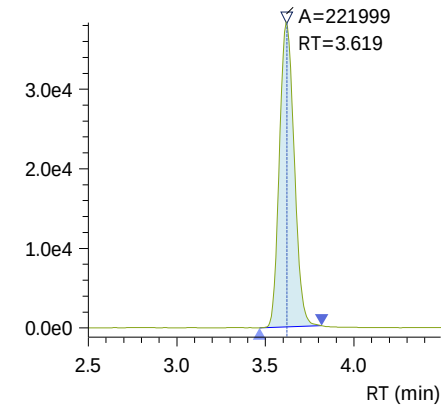
Perchlorate

Conc 20.5144
R#1 31.25 (32.02)

Q 99.00>83.00 (-) A=710430 RT=3.620 1.24e5



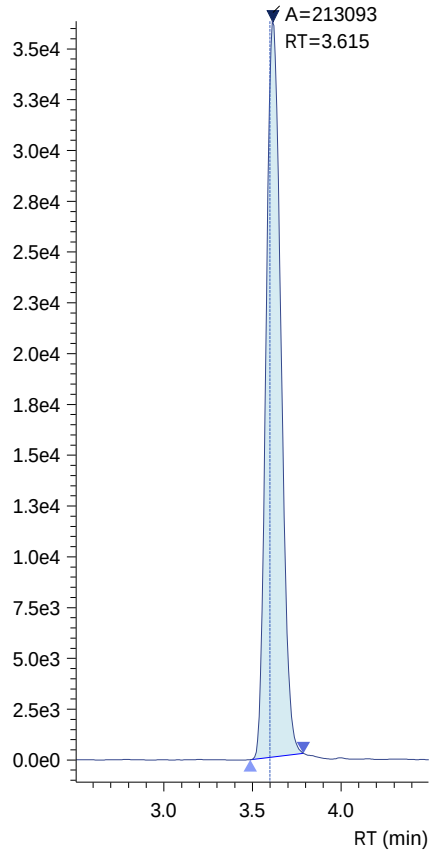
R1 101.00>85.00 (-) 3.84e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.64e4



Insight Report

Printed at 6/29/2023 2:17:05 PM

PERCHLORATE9

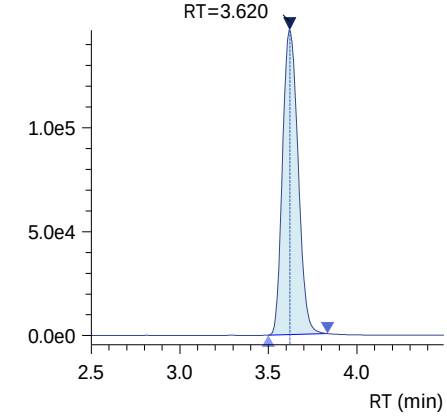
Sample ID: PERCHLORATE9
Date Acquired: 6/29/2023 1:43:53 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-009.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.620	896468	185851	29.6808	ng/mL	101.00 >85.00	31.06	22.41-41.62
Sodium Perchlorate-18O4_IS	Auto	3.614	185851	185851	1.0000	ng/mL	----	----	

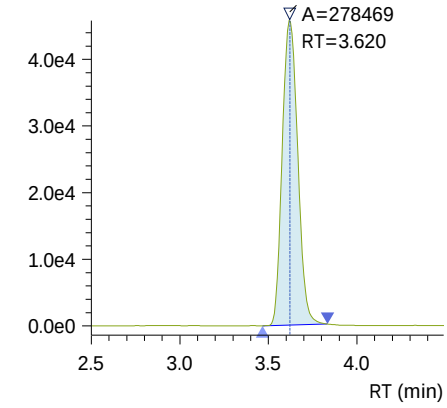
Perchlorate

Conc 29.6808
R#1 31.06 (32.02)

Q 99.00>83.00 (-) A=896468 1.47e5



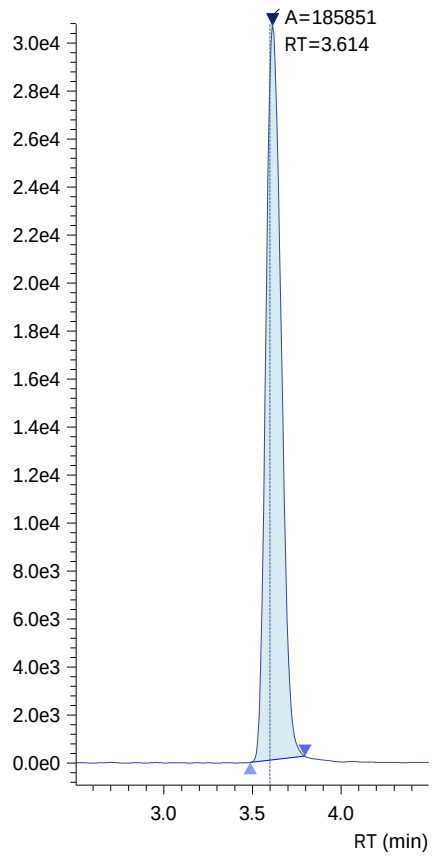
R1 101.00>85.00 (-) 4.58e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.08e4



Insight Report

Printed at 6/29/2023 2:17:05 PM

PERCHLORATE10

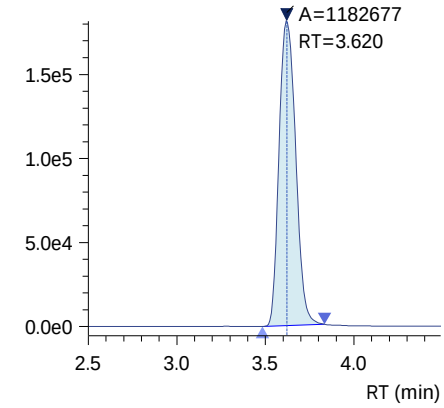
Sample ID: PERCHLORATE10
Date Acquired: 6/29/2023 1:49:27 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-010.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.620	1182677	146135	49.79 86	ng/mL	101.00 >85.00	30.89	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.614	146135	146135	1.0000	ng/mL	----	----	

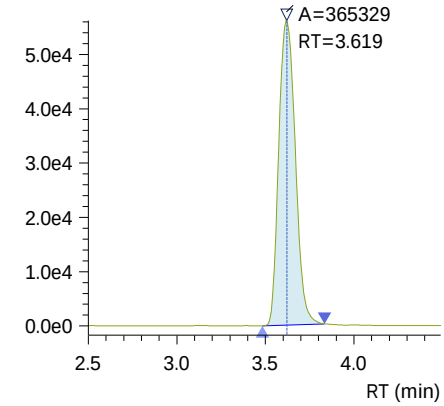
Perchlorate

Conc 49.7986
R#1 30.89 (32.02)

Q 99.00>83.00 (-) 1.82e5



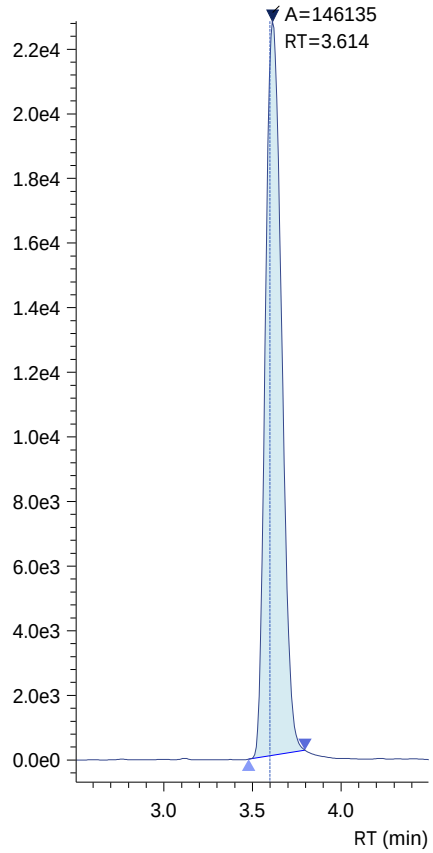
R1 101.00>85.00 (-) 5.62e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.29e4



Insight Report

Printed at 6/29/2023 2:17:05 PM

PERCHLORATEICV

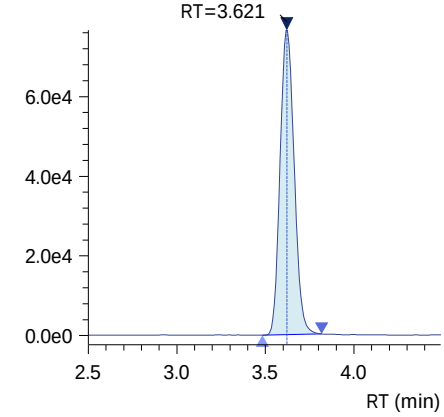
Sample ID: PERCHLORATEICV
Date Acquired: 6/29/2023 1:55:00 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-011.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.621	423829	263091	9.9127	ng/mL	101.00 >85.00	30.88	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.617	263091	263091	1.0000	ng/mL	----	----	

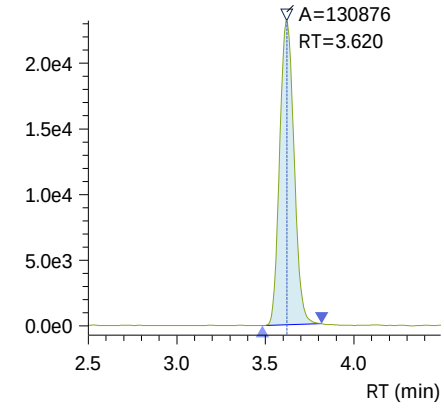
Perchlorate

Conc 9.9127
R#1 30.88 (32.02)

Q 99.00>83.00 (-) A=423829 RT=3.621 7.67e4



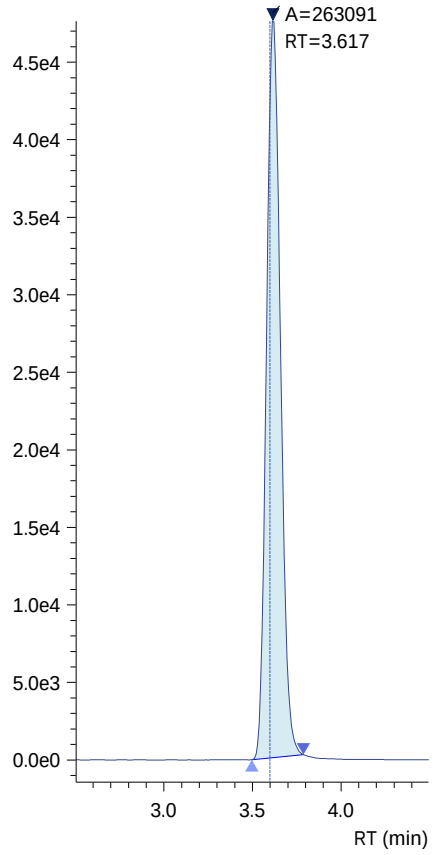
R1 101.00>85.00 (-) 2.32e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 4.76e4



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

20230628-809096

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XM
2nd Review: GC

ICAL Date: 6/23/2023
Cal. Std. xp: 07/31/2023
ICAL ID: EC2300010

Mobile Phases : A:20mM ammonium acetate in water 32103046 **B:**Acetonitrile 226552

	Sample Name		File Name	Acquisition Method	Dilution	Comments	Date/Time
1	IB		20230628-001	Perchlorate6850c.lcm	1x		6/28/2023 11:41
2	LODV		20230628-002	Perchlorate6850c.lcm	1x	227501	6/28/2023 11:47
3	ICS		20230628-003	Perchlorate6850c.lcm	1x	32103024	6/28/2023 13:39
4	CCV		20230628-004	Perchlorate6850c.lcm	1x	227251	6/28/2023 13:45
5	EQ2300317-01		20230628-005	Perchlorate6850c.lcm	1x		6/28/2023 14:19
6	EQ2300317-02		20230628-006	Perchlorate6850c.lcm	1x		6/28/2023 14:24
7	EQ2300317-03		20230628-007	Perchlorate6850c.lcm	1x		6/28/2023 14:30
8	E2300617-001		20230628-008	Perchlorate6850c.lcm	1x		6/28/2023 14:36
9	E2300617-002		20230628-009	Perchlorate6850c.lcm	1x	DNU-D	6/28/2023 14:42
10	K2307221-001		20230628-010	Perchlorate6850c.lcm	1x		6/28/2023 14:47
11	K2307221-002		20230628-011	Perchlorate6850c.lcm	1x		6/28/2023 14:53
12	K2307221-003		20230628-012	Perchlorate6850c.lcm	1x		6/28/2023 15:04
13	E2300617-002X100		20230628-013	Perchlorate6850c.lcm	1x		6/28/2023 15:14
14	CCV		20230628-014	Perchlorate6850c.lcm	1x	227251	6/28/2023 15:20

20230630-809342

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XM
2nd Review: GC

ICAL Date: 6/29/2023
Cal. Std. xp: 06/29/2023
ICAL ID: EC2300011

Mobile Phases : A:20mM ammonium acetate in water 32103046 **B:**Acetonitrile 226552

	Sample Name		File Name	Acquisition Method	Dilution	Comments	Date/Time
1	IB		20230630-001	Perchlorate6850c.lcm	1x		6/30/2023 8:18
2	LODV		20230630-002	Perchlorate6850c.lcm	1x	227501	6/30/2023 8:29
3	ICS		20230630-003	Perchlorate6850c.lcm	1x	32103024	6/30/2023 8:23
4	CCV		20230630-004	Perchlorate6850c.lcm	1x	227251	6/30/2023 8:34
5	E2300610-008		20230630-005	Perchlorate6850c.lcm	100x		6/30/2023 8:48
6	E2300611-004		20230630-006	Perchlorate6850c.lcm	1000x		6/30/2023 8:54
7	E2300611-006		20230630-007	Perchlorate6850c.lcm	2x		6/30/2023 8:59
8	E2300611-007		20230630-008	Perchlorate6850c.lcm	2x		6/30/2023 9:06
9	EQ2300312-02		20230630-009	Perchlorate6850c.lcm	1x		6/30/2023 9:12
10	E2300614-001		20230630-010	Perchlorate6850c.lcm	100x		6/30/2023 9:17
11	E2300614-002		20230630-011	Perchlorate6850c.lcm	100x		6/30/2023 9:23
12	E2300614-003		20230630-012	Perchlorate6850c.lcm	1000x	DNU-D	6/30/2023 9:28
13	EQ2300317-04		20230630-013	Perchlorate6850c.lcm	1x		6/30/2023 9:34
14	EQ2300317-05		20230630-014	Perchlorate6850c.lcm	1x		6/30/2023 9:39
15	CCV		20230630-015	Perchlorate6850c.lcm	1x	227251	6/30/2023 9:47
16	E2300614-004		20230630-016	Perchlorate6850c.lcm	100x		6/30/2023 9:53
17	E2300614-005		20230630-017	Perchlorate6850c.lcm	1x	DNU-RR	6/30/2023 9:58
18	EQ2300317-06		20230630-018	Perchlorate6850c.lcm	1x		6/30/2023 10:04
19	EQ2300317-07		20230630-019	Perchlorate6850c.lcm	1x		6/30/2023 10:09
20	E2300614-006		20230630-020	Perchlorate6850c.lcm	1x		6/30/2023 10:15
21	E2300614-007		20230630-021	Perchlorate6850c.lcm	1x		6/30/2023 10:20
22	E2300614-008		20230630-022	Perchlorate6850c.lcm	1x		6/30/2023 10:26
23	E2300614-009		20230630-023	Perchlorate6850c.lcm	1x		6/30/2023 10:31
24	E2300616-001		20230630-024	Perchlorate6850c.lcm	100x		6/30/2023 10:40
25	E2300616-002		20230630-025	Perchlorate6850c.lcm	1x		6/30/2023 10:46
26	CCV		20230630-026	Perchlorate6850c.lcm	1x	227251	6/30/2023 10:51
27	E2300616-003		20230630-027	Perchlorate6850c.lcm	100x		6/30/2023 10:57
28	E2300616-004		20230630-028	Perchlorate6850c.lcm	100x		6/30/2023 11:02
29	E2300616-005		20230630-029	Perchlorate6850c.lcm	100x		6/30/2023 11:08
30	E2300616-006		20230630-030	Perchlorate6850c.lcm	100x		6/30/2023 11:13
31	E2300614-003		20230630-031	Perchlorate6850c.lcm	2000x		6/30/2023 11:19
32	E2300614-005		20230630-032	Perchlorate6850c.lcm	1x		6/30/2023 11:24
33	CCV		20230630-033	Perchlorate6850c.lcm	1x	227251	6/30/2023 11:30

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23061812

Service Request: E2300616
Date Analyzed: 6/28/23 13:45

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

File ID: I:\LCMS01\DATA\20230628\20230628-004
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2300318-01
Analysis Lot: 809096
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	134,284	3.65
	Upper Limit ==>	201,426	5.65
	Lower Limit ==>	67,142	1.65
Associated Analyses			
Continuing Calibration Verification	EQ2300318-01	128,901	3.61
Method Blank	EQ2300317-01	189,749	3.60
Lab Control Sample	EQ2300317-02	188,582	3.61
Duplicate Lab Control Sample	EQ2300317-03	184,608	3.61

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300616
Project:	HS23061812	**Date Analyzed:**	6/28/23 15:20

Internal Standard Area and RT Summary

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

File ID:	I:\LCMS01\DATA\20230628\20230628-014	**Lab Code:**	EQ2300318-02
Instrument ID:	E-LCMS-01	**Analysis Lot:**	809096
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	134,284	3.65
	Upper Limit ==>	201,426	5.65
	Lower Limit ==>	67,142	1.65
Associated Analyses			
Continuing Calibration Verification	EQ2300318-02	148,210	3.62

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300616
Project:	HS23061812	**Date Analyzed:**	6/30/23 08:34

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

File ID:	I:\LCMS01\DATA\20230630\20230630-004	**Lab Code:**	EQ2300322-01
Instrument ID:	E-LCMS-01	**Analysis Lot:**	809342
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	263,382	3.62
	Upper Limit ==>	395,073	5.62
	Lower Limit ==>	131,691	1.62
Associated Analyses			
Continuing Calibration Verification	EQ2300322-01	242,810	3.62

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300616
Project:	HS23061812	**Date Analyzed:**	6/30/23 09:47

Internal Standard Area and RT Summary

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

File ID:	I:\LCMS01\DATA\20230630\20230630-015	**Lab Code:**	EQ2300322-02
Instrument ID:	E-LCMS-01	**Analysis Lot:**	809342
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	263,382	3.62
	Upper Limit ==>	395,073	5.62
	Lower Limit ==>	131,691	1.62
Associated Analyses			
Continuing Calibration Verification	EQ2300322-02	257,568	3.63
MW22_062423	E2300616-001	222,638	3.62
18CPTMW06_062423	E2300616-002	320,502	3.62

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300616
Project:	HS23061812	**Date Analyzed:**	6/30/23 10:51

Internal Standard Area and RT Summary

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

File ID:	I:\LCMS01\DATA\20230630\20230630-026	**Lab Code:**	EQ2300322-03
Instrument ID:	E-LCMS-01	**Analysis Lot:**	809342
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	263,382	3.62
	Upper Limit ==>	395,073	5.62
	Lower Limit ==>	131,691	1.62
Associated Analyses			
Continuing Calibration Verification	EQ2300322-03	239,697	3.62
129_062623	E2300616-003	236,700	3.62
MW6_062623	E2300616-004	195,324	3.62
MW21_062623	E2300616-005	253,350	3.62
109_062623	E2300616-006	202,320	3.62

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300616
Project:	HS23061812	**Date Analyzed:**	6/30/23 11:30

Internal Standard Area and RT Summary

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

File ID:	I:\LCMS01\DATA\20230630\20230630-033	**Lab Code:**	EQ2300322-04
Instrument ID:	E-LCMS-01	**Analysis Lot:**	809342
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	263,382	3.62
	Upper Limit ==>	395,073	5.62
	Lower Limit ==>	131,691	1.62
Associated Analyses			
Continuing Calibration Verification	EQ2300322-04	247,134	3.62

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: HS23061812

Service Request: E2300616
Date Analyzed: 6/28/23

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\20230628\20230628-004

Calibration Date: 6/23/23
Calibration ID: EC2300010
Analysis Lot: 809096
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.92	0.1579	0.1566	-0.8	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23061812

Service Request: E2300616
Date Analyzed: 6/28/23

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\20230628\20230628-014

Calibration Date: 6/23/23
Calibration ID: EC2300010
Analysis Lot: 809096
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.5	0.1579	0.1665	5.4	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23061812

Service Request: E2300616
Date Analyzed: 6/30/23

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\20230630\20230630-004

Calibration Date: 6/29/23
Calibration ID: EC2300011
Analysis Lot: 809342
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.1	0.1625	0.1646	1.3	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23061812

Service Request: E2300616
Date Analyzed: 6/30/23

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\20230630\20230630-015

Calibration Date: 6/29/23
Calibration ID: EC2300011
Analysis Lot: 809342
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.5	0.1625	0.1707	5.0	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23061812

Service Request: E2300616
Date Analyzed: 6/30/23

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\20230630\20230630-026

Calibration Date: 6/29/23
Calibration ID: EC2300011
Analysis Lot: 809342
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.7	0.1625	0.1736	6.8	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23061812

Service Request: E2300616
Date Analyzed: 6/30/23

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\20230630\20230630-033

Calibration Date: 6/29/23
Calibration ID: EC2300011
Analysis Lot: 809342
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.6	0.1625	0.1715	5.5	NA	± 15 %	Average RF

Insight Report

Printed at 6/28/2023 4:13:03 PM

Method File: I:\LCMS01\DATA\20230628\06282023.lcm
Project File: I:\LCMS01\DATA\20230628\06282023.damlp

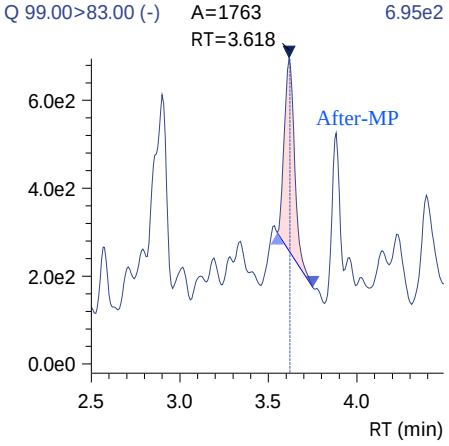
LODV

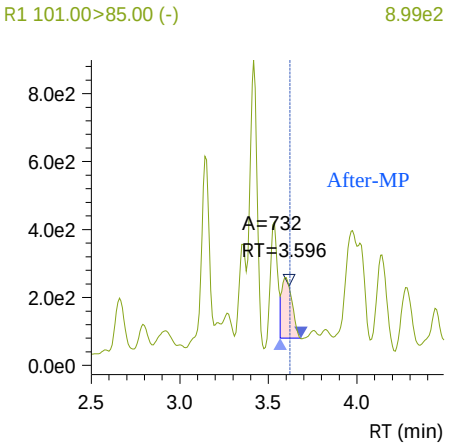
Sample ID: LODV
Date Acquired: 6/28/2023 11:47:23 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230628\20230628-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.618	1763	198982	0.0561	ng/mL	101.00 >85.00	41.50	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.608	198982	198982	1.0000	ng/mL	----	----	

Perchlorate

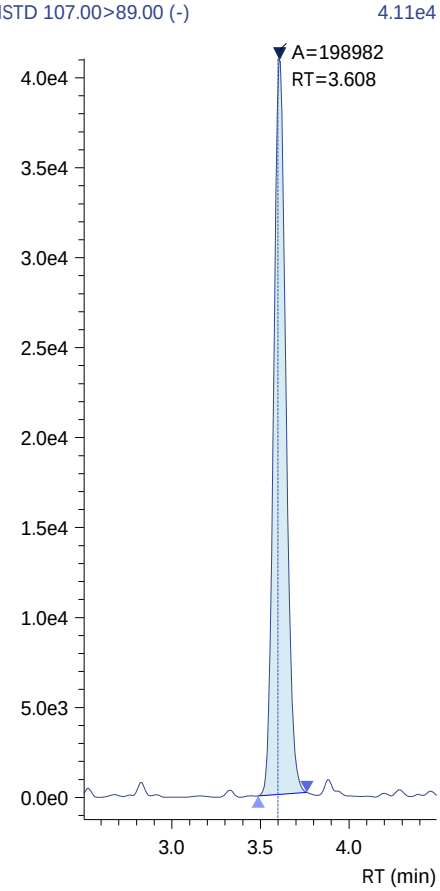
Conc 0.0561
R#1 41.50 (32.02)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/28/2023 4:15:08 PM

Method File: I:\LCMS01\DATA\20230628\06282023.lcm
Project File: I:\LCMS01\DATA\20230628\06282023.damlp

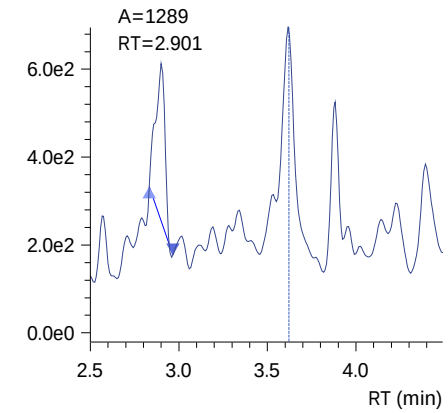
LODV

Sample ID: LODV
Date Acquired: 6/28/2023 11:47:23 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230628\20230628-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

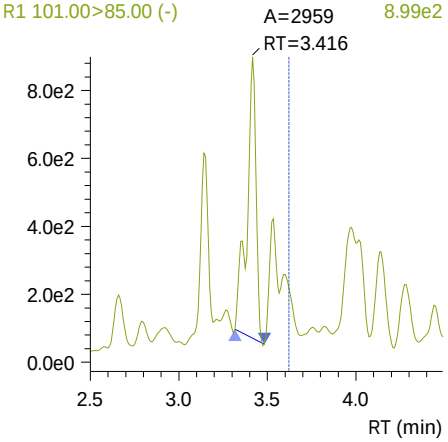
Perchlorate

Conc ----
R#1 0.00 (32.02)

Q 99.00>83.00 (-) 6.95e2



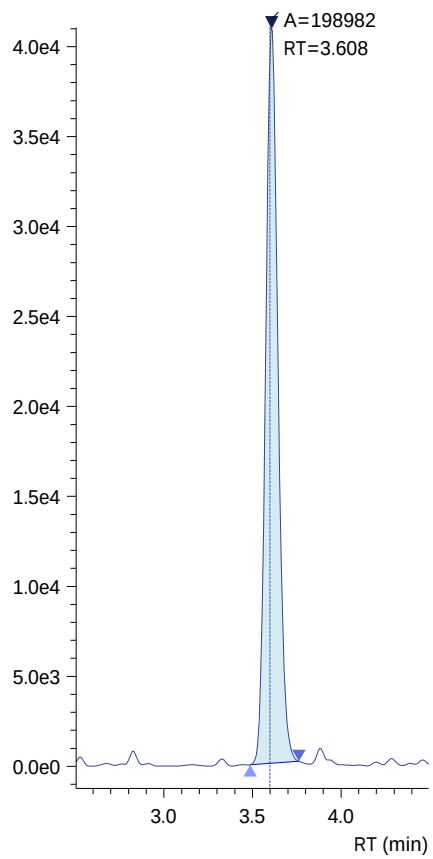
R1 101.00>85.00 (-) 8.99e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 4.11e4



Insight Report

Printed at 6/28/2023 4:13:03 PM

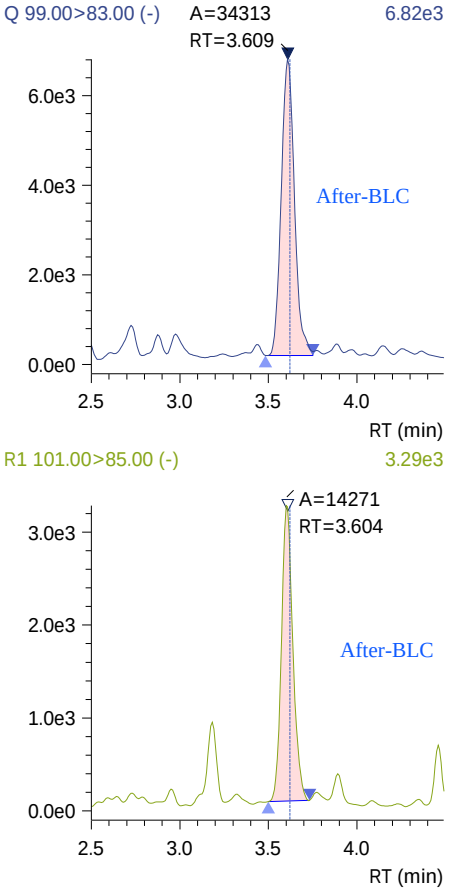
ICS

Sample ID: ICS
Date Acquired: 6/28/2023 1:39:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230628\20230628-003.lcd
Vial: 2 | 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	M	3.609	34313	194688	1.1162	ng/mL	101.00 >85.00	41.59	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.606	194688	194688	1.0000	ng/mL	----	----	

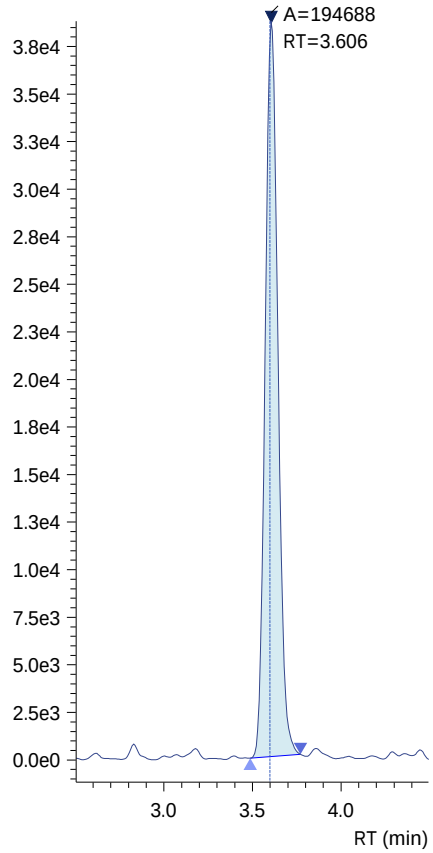
Perchlorate

Conc 1.1162
R#1 41.59 (32.02)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

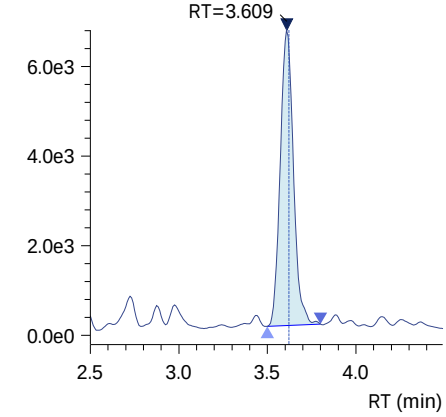
ICS

Sample ID: ICS
Date Acquired: 6/28/2023 1:39:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230628\20230628-003.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 0

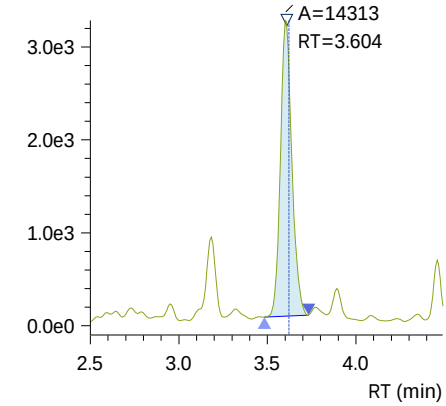
Perchlorate

Conc 1.1008
R#1 41.91 (32.02)

Q 99.00>83.00 (-) A=34151 6.82e3



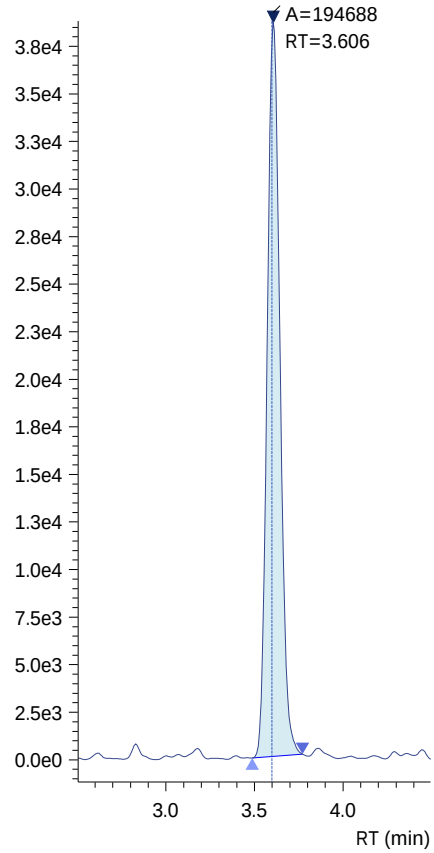
R1 101.00>85.00 (-) 3.29e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.88e4



Insight Report

Printed at 6/28/2023 4:13:03 PM

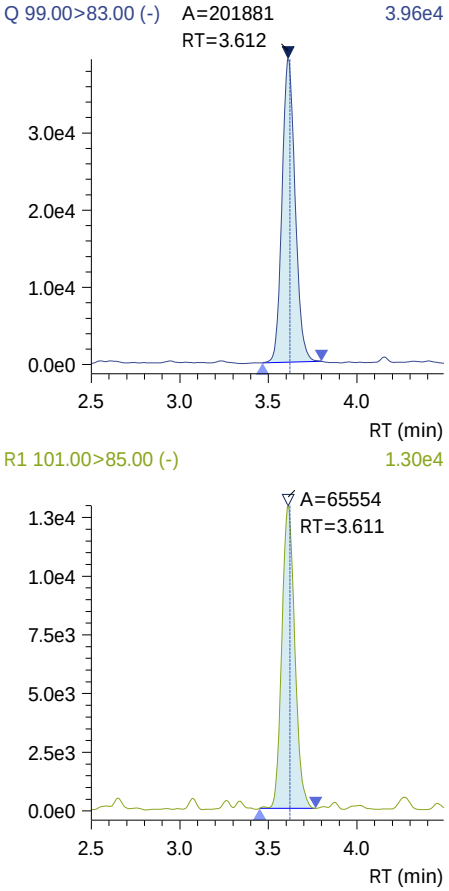
CCV

Sample ID: CCV
Date Acquired: 6/28/2023 1:45:16 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230628\20230628-004.lcd
Vial: 3 | 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	Auto	3.612	201881	128901	9.9186	ng/mL	101.00 >85.00	32.47	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.609	128901	128901	1.0000	ng/mL	----	----	

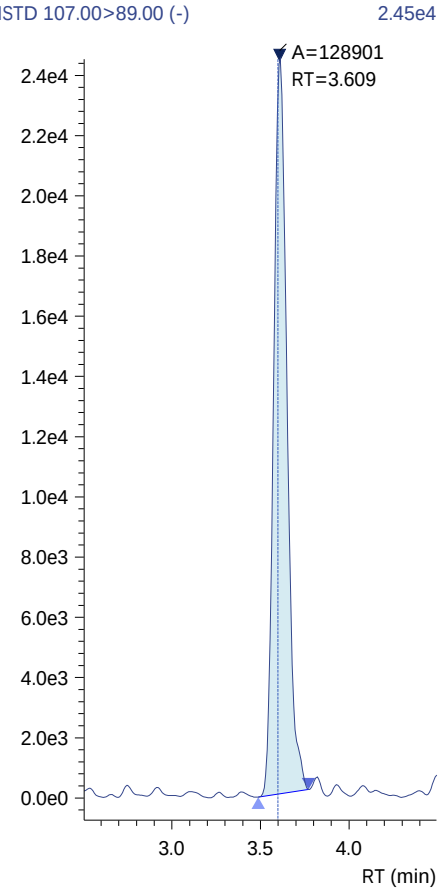
Perchlorate

Conc 9.9186
R#1 32.47 (32.02)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/28/2023 4:13:03 PM

EQ2300317-01

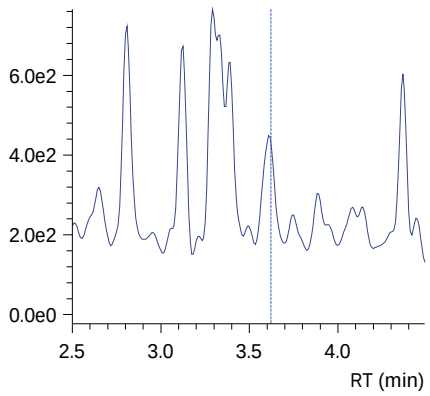
Sample ID: EQ2300317-01
Date Acquired: 6/28/2023 2:19:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230628\20230628-005.lcd
Vial: 22 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	189749	----	ng/mL	101.00 >85.00	0.00	22.41-41.62
Sodium Perchlorate-18O4_IS	Auto	3.595	189749	189749	1.0000	ng/mL	----	----	

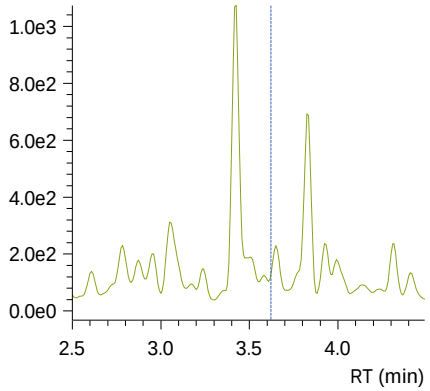
Perchlorate

Conc ----
R#1 0.00 (32.02)

Q 99.00>83.00 (-) 7.66e2



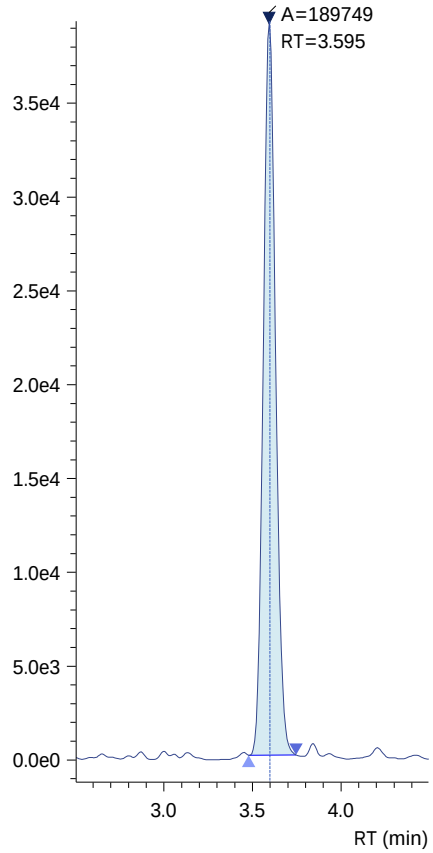
R1 101.00>85.00 (-) 1.07e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.94e4



Insight Report

Printed at 6/28/2023 4:13:03 PM

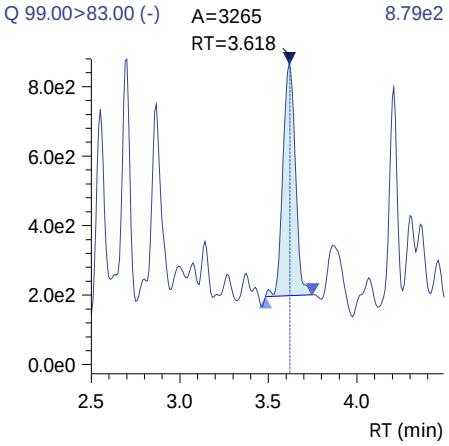
EQ2300317-02

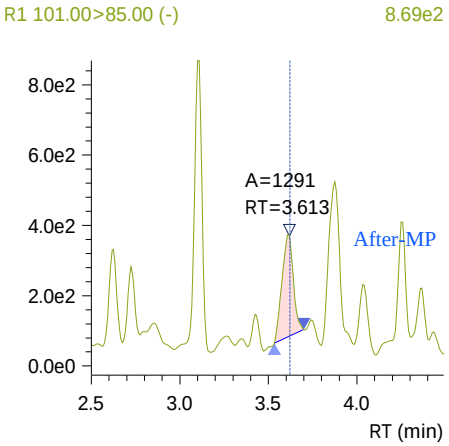
Sample ID: EQ2300317-02
Date Acquired: 6/28/2023 2:24:32 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230628\20230628-006.lcd
Vial: 23 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI R1	3.618	3265	188582	0.1096	ng/mL	101.00 >85.00	39.54	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.612	188582	188582	1.0000	ng/mL	----	----	

Perchlorate

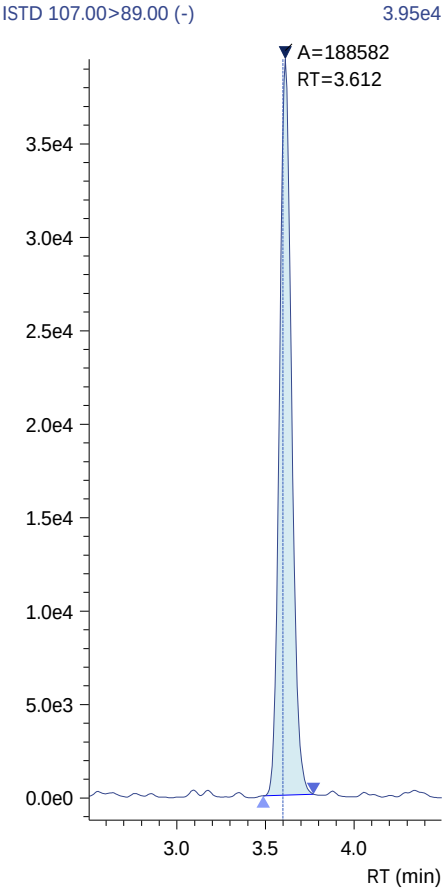
Conc 0.1096
R#1 39.54 (32.02)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

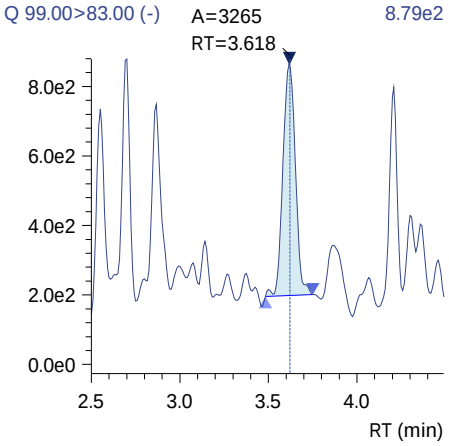
Printed at 6/28/2023 4:15:08 PM

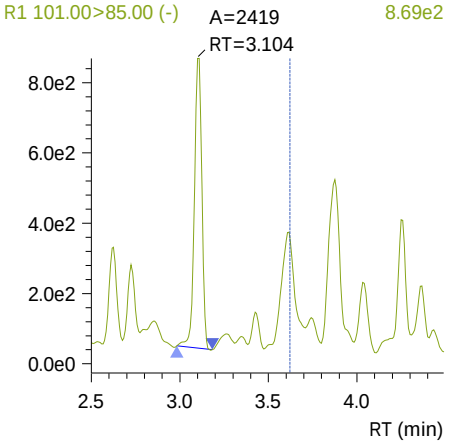
EQ2300317-02

Sample ID: EQ2300317-02
Date Acquired: 6/28/2023 2:24:32 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230628\20230628-006.lcd
Vial: 23 | Inj. Volume: 10.0000uL | Tray: 5

Perchlorate

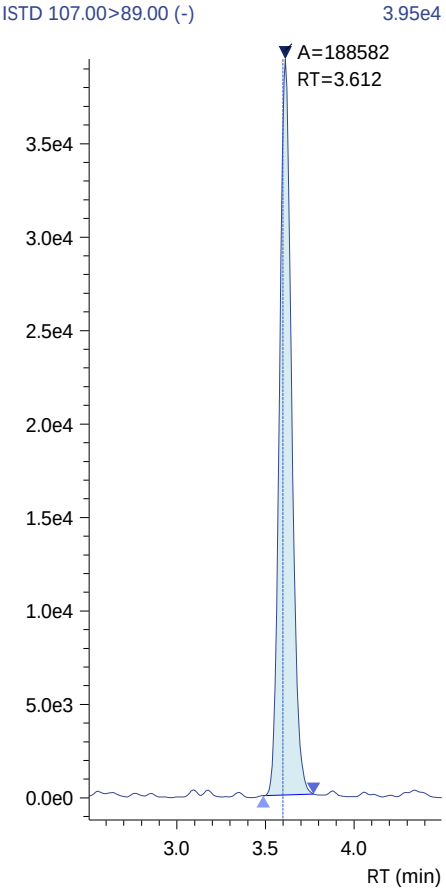
Conc 0.1086
R#1 0.00 (32.02)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/28/2023 4:13:03 PM

EQ2300317-03

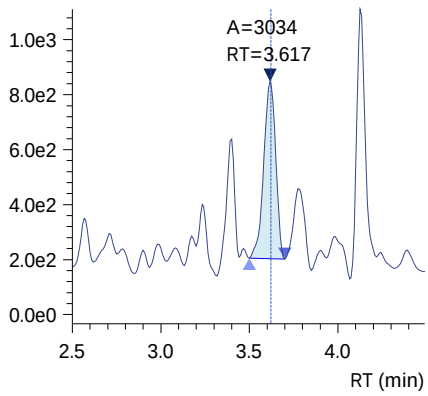
Sample ID: EQ2300317-03
Date Acquired: 6/28/2023 2:30:03 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230628\20230628-007.lcd
Vial: 24 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI R1	3.617	3034	184608	0.1041	ng/mL	101.00 >85.00	33.99	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.614	184608	184608	1.0000	ng/mL	----	----	

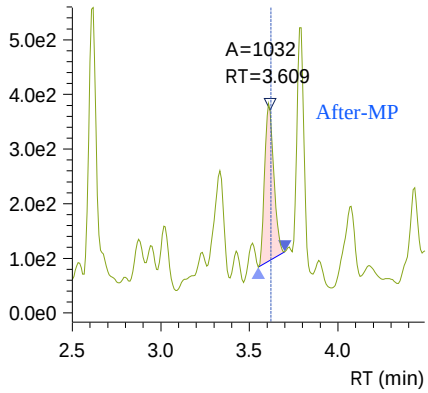
Perchlorate

Conc 0.1041
R#1 33.99 (32.02)

Q 99.00>83.00 (-) 1.11e3



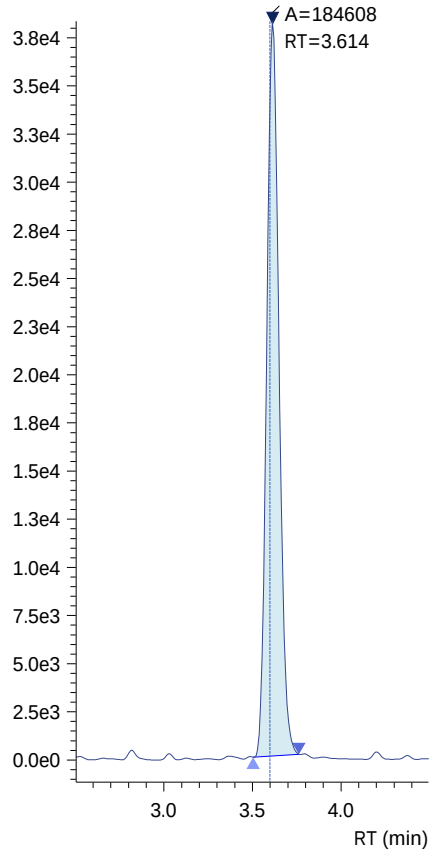
R1 101.00>85.00 (-) 5.59e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.84e4



Insight Report

Printed at 6/28/2023 4:15:08 PM

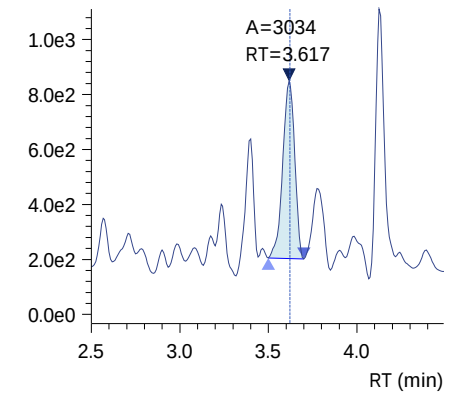
EQ2300317-03

Sample ID: EQ2300317-03
Date Acquired: 6/28/2023 2:30:03 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230628\20230628-007.lcd
Vial: 24 | Inj. Volume: 10.0000uL | Tray: 5

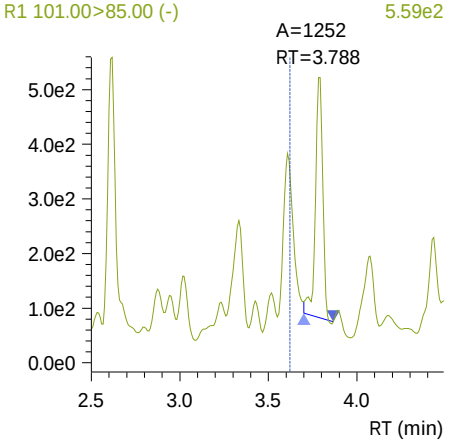
Perchlorate

Conc 0.1031
R#1 0.00 (32.02)

Q 99.00>83.00 (-) 1.11e3



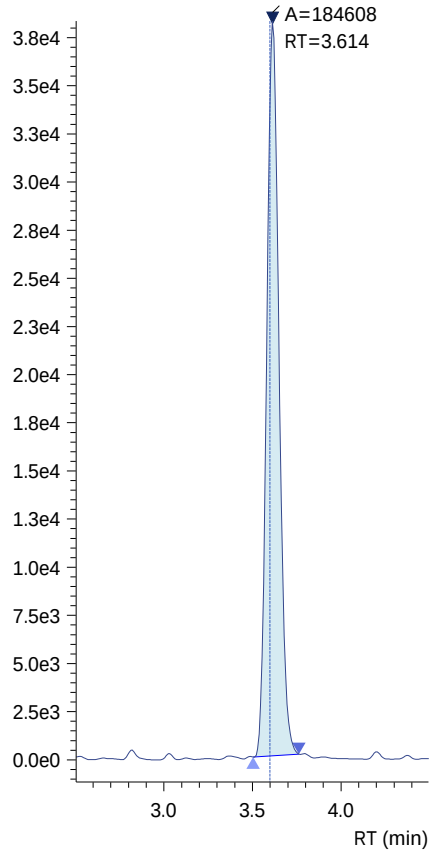
R1 101.00>85.00 (-) 5.59e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.84e4



Insight Report

Printed at 6/28/2023 4:13:03 PM

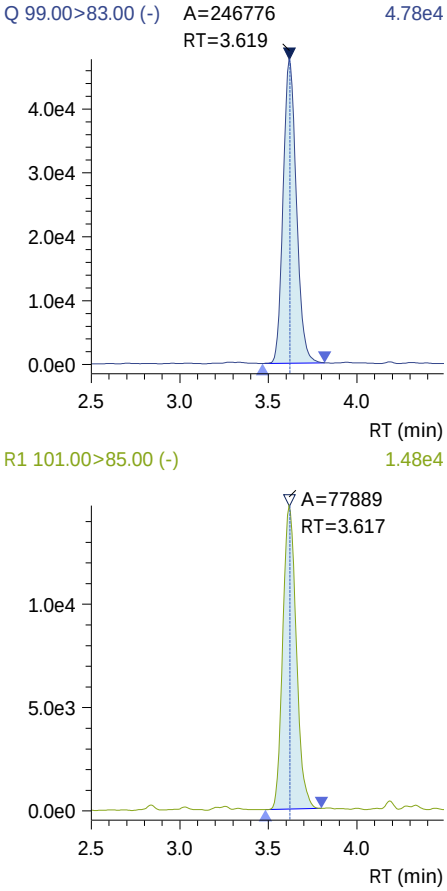
CCV

Sample ID: CCV
Date Acquired: 6/28/2023 3:20:23 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230628\20230628-014.lcd
Vial: 3 | 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	Auto	3.619	246776	148210	10.5447	ng/mL	101.00 >85.00	31.56	22.41-41.62
Sodium Perchlorate-18O4_IS	Auto	3.615	148210	148210	1.0000	ng/mL	----	----	

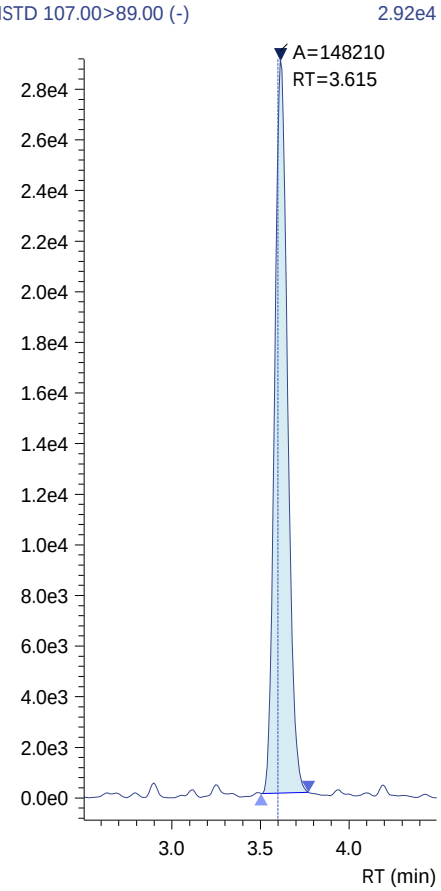
Perchlorate

Conc 10.5447
R#1 31.56 (32.02)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 1:10:51 PM

Method File: I:\LCMS01\DATA\20230630\20230630.lcm
Project File: I:\LCMS01\DATA\20230630\20230630.damlp

IB

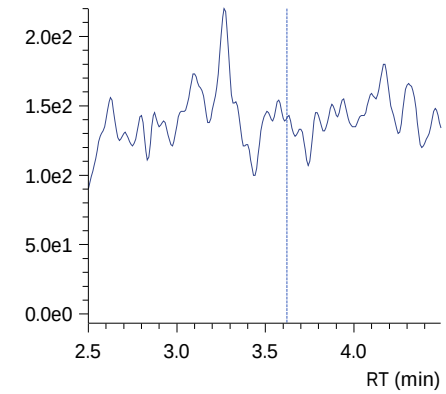
Sample ID: IB
Date Acquired: 6/30/2023 8:18:19 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230630\20230630-001.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	338673	----	ng/mL	101.00 >85.00	0.00	21.78 -40.45
Sodium Perchlorate-18O4_IS	Auto	3.626	338673	338673	1.0000	ng/mL	----	----	

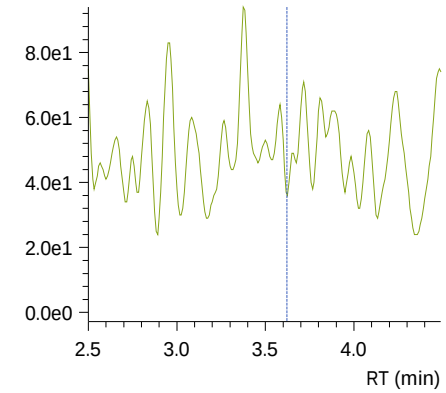
Perchlorate

Conc ----
R#1 0.00 (31.12)

Q 99.00>83.00 (-) 2.20e2



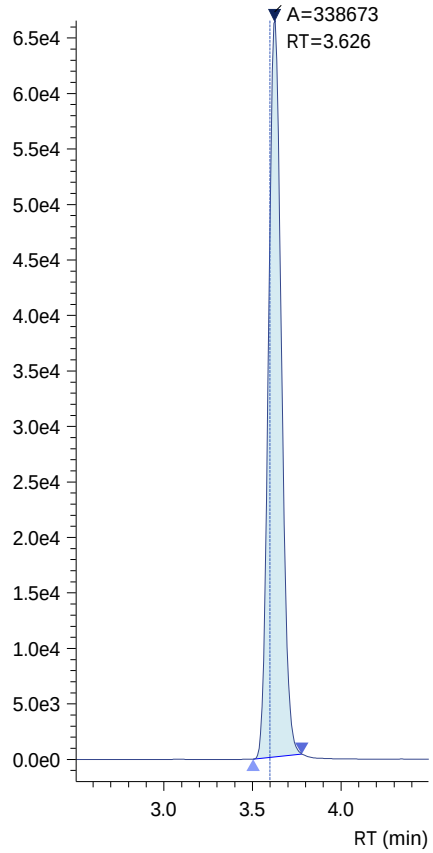
R1 101.00>85.00 (-) 9.40e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.66e4



Insight Report

Printed at 6/30/2023 1:10:51 PM

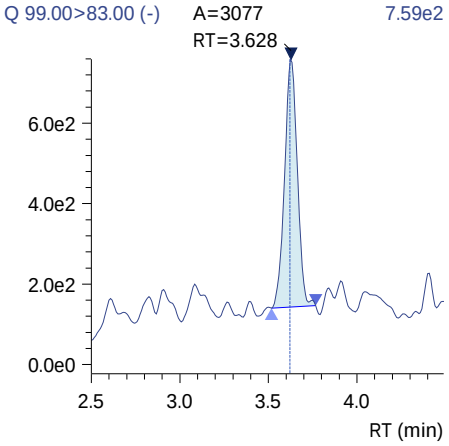
LODV

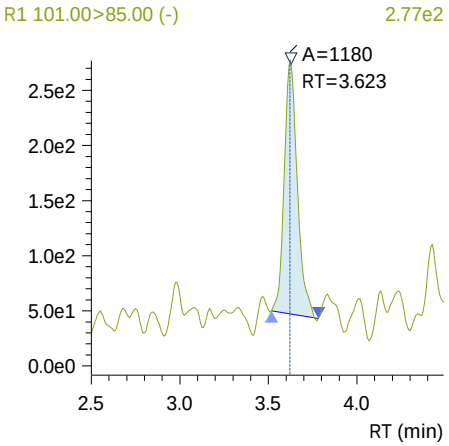
Sample ID: LODV
Date Acquired: 6/30/2023 8:29:21 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230630\20230630-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.628	3077	325731	0.0581	ng /mL	101.00 >85.00	38.34	21.78 -40.45
Sodium Perchlorate-18O4 _IS	Auto	3.621	325731	325731	1.0000	ng /mL	----	----	

Perchlorate

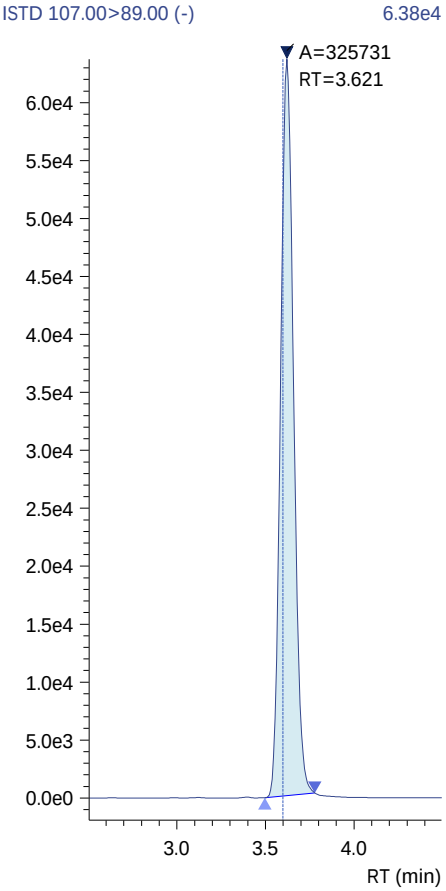
Conc 0.0581
R#1 38.34 (31.12)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 1:10:51 PM

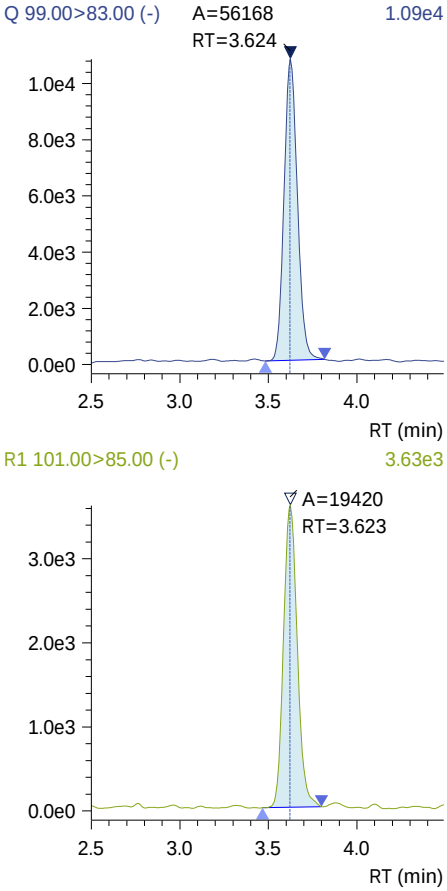
ICS

Sample ID: ICS
Date Acquired: 6/30/2023 8:23:50 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230630\20230630-003.lcd
Vial: 2 | 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	Auto	3.624	56168	340515	1.0150	ng /mL	101.00 >85.00	34.57	21.78 -40.45
Sodium Perchlorate-18O4 _IS	Auto	3.621	340515	340515	1.0000	ng /mL	----	----	

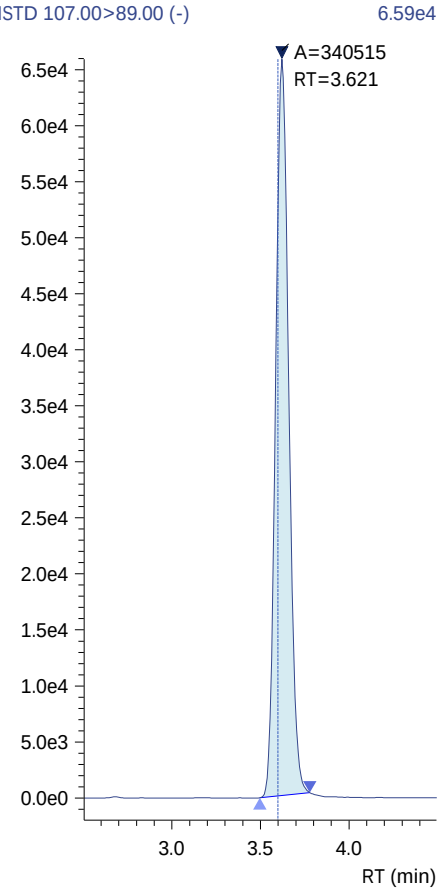
Perchlorate

Conc 1.0150
R#1 34.57 (31.12)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 1:10:51 PM

CCV

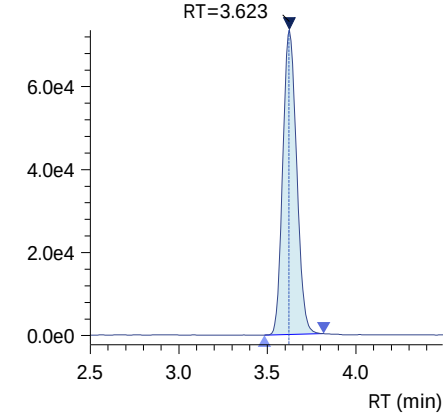
Sample ID: CCV
Date Acquired: 6/30/2023 8:34:53 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230630\20230630-004.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.623	399660	242810	10.1281	ng /mL	101.00 >85.00	33.95	21.78 -40.45
Sodium Perchlorate-18O4_IS	Auto	3.621	242810	242810	1.0000	ng /mL	----	----	

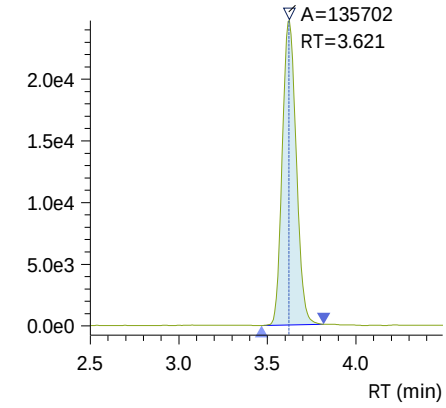
Perchlorate

Conc 10.1281
R#1 33.95 (31.12)

Q 99.00>83.00 (-) A=399660 RT=3.623 7.36e4



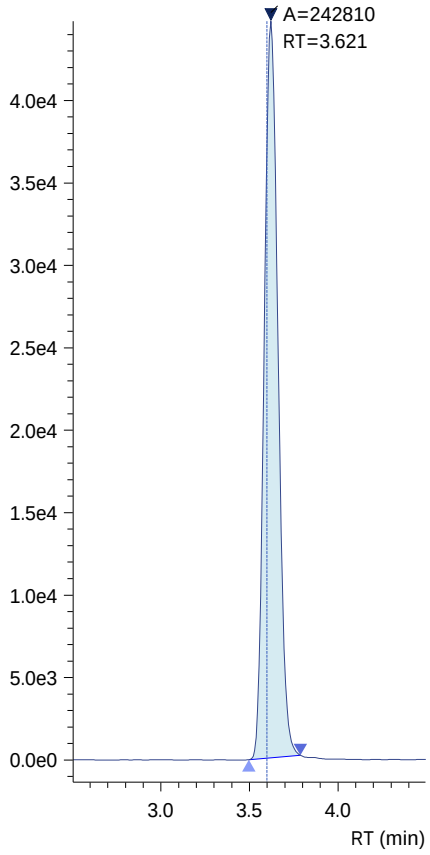
R1 101.00>85.00 (-) 2.48e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 4.48e4



Insight Report

Printed at 6/30/2023 1:10:51 PM

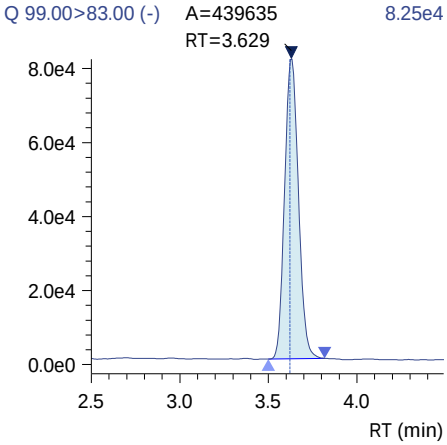
CCV

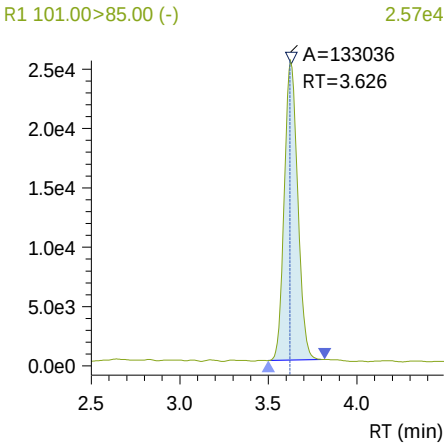
Sample ID: CCV
Date Acquired: 6/30/2023 9:47:37 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230630\20230630-015.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.629	439635	257568	10.5028	ng /mL	101.00 >85.00	30.26	21.78 -40.45
Sodium Perchlorate-18O4_IS	Auto	3.625	257568	257568	1.0000	ng /mL	----	----	

Perchlorate

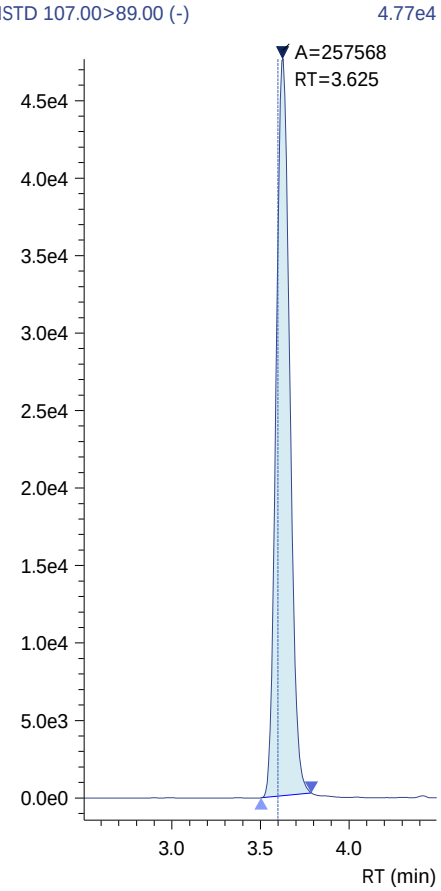
Conc 10.5028
R#1 30.26 (31.12)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 1:10:51 PM

E2300616-001x100

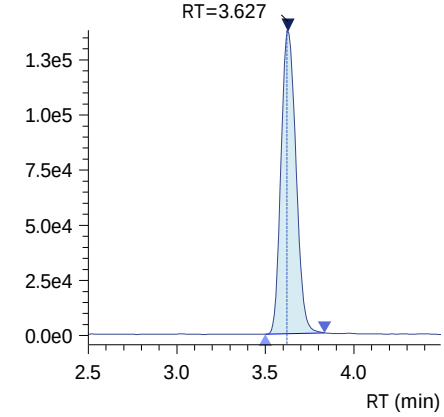
Sample ID: E2300616-001
Date Acquired: 6/30/2023 10:40:37 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230630\20230630-024.lcd
Vial: 38 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.627	805715	222638	22.2683	ng /mL	101.00 >85.00	30.59	21.78 -40.45
Sodium Perchlorate-18O4_IS	Auto	3.623	222638	222638	1.0000	ng /mL	----	----	

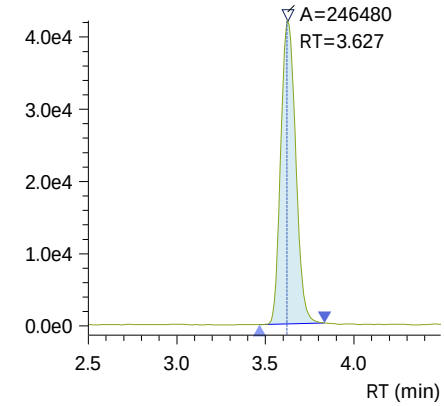
Perchlorate

Conc 22.2683
R#1 30.59 (31.12)

Q 99.00>83.00 (-) A=805715 1.38e5



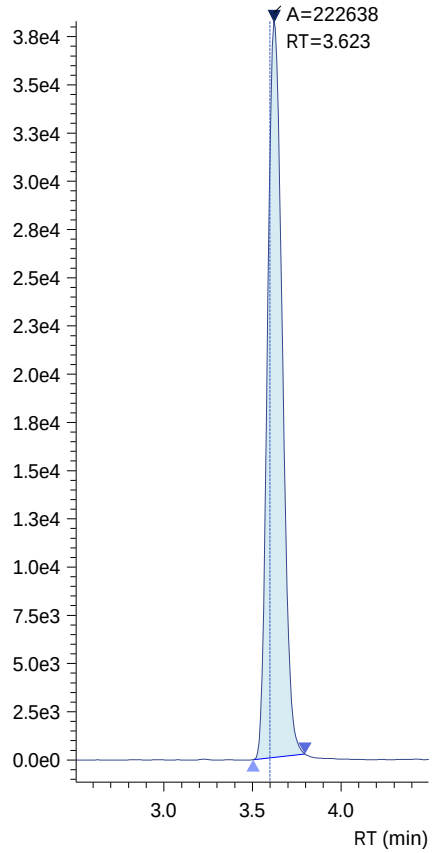
R1 101.00>85.00 (-) 4.23e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.83e4



Insight Report

Printed at 6/30/2023 1:10:51 PM

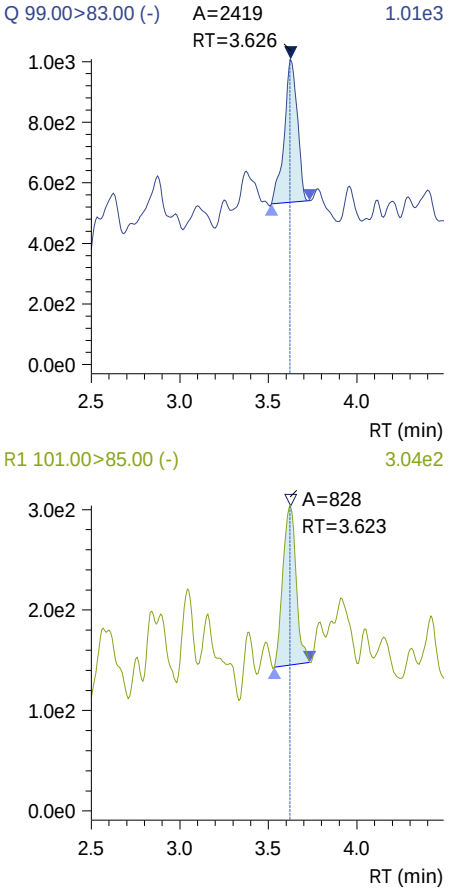
E2300616-002

Sample ID: E2300616-002
Date Acquired: 6/30/2023 10:46:08 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230630\20230630-025.lcd
Vial: 39 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.626	2419	320502	0.0464	ng /mL	101.00 >85.00	34.23	21.78 -40.45
Sodium Perchlorate-18O4_IS	Auto	3.624	320502	320502	1.0000	ng /mL	----	----	

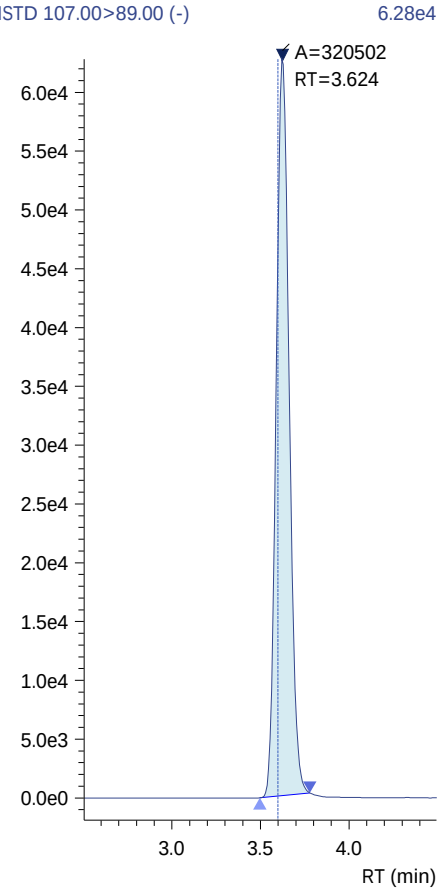
Perchlorate

Conc 0.0464
R#1 34.23 (31.12)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 1:10:51 PM

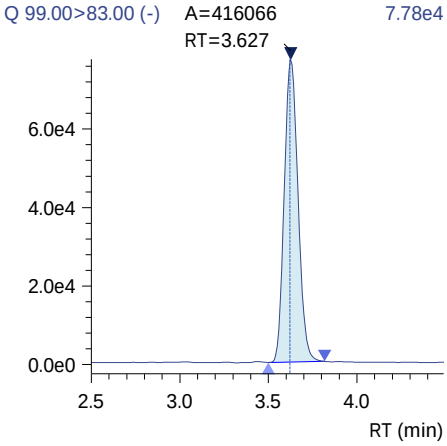
CCV

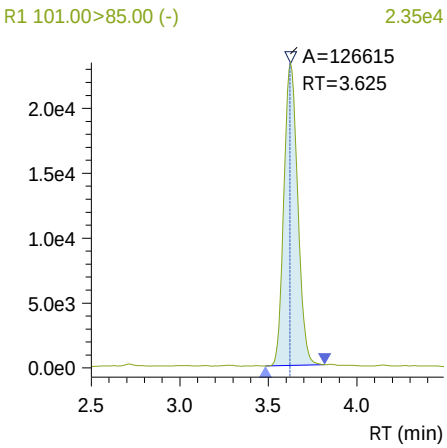
Sample ID: CCV
Date Acquired: 6/30/2023 10:51:41 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230630\20230630-026.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.627	416066	239697	10.6809	ng /mL	101.00 >85.00	30.43	21.78 -40.45
Sodium Perchlorate-18O4_IS	Auto	3.623	239697	239697	1.0000	ng /mL	----	----	

Perchlorate

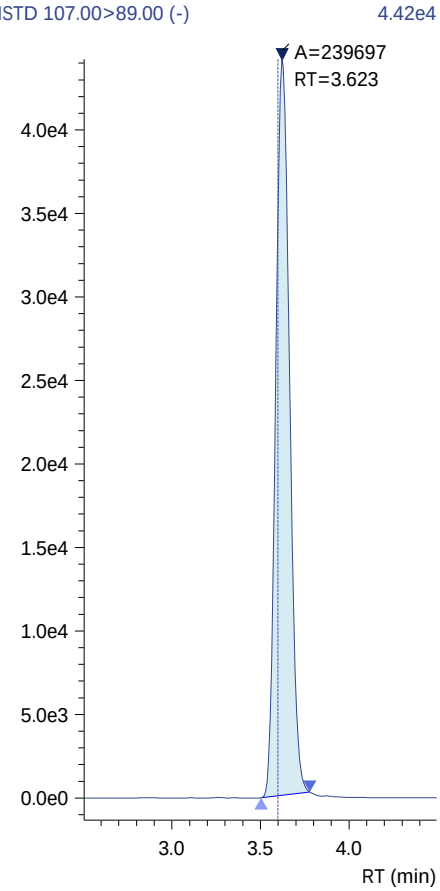
Conc 10.6809
R#1 30.43 (31.12)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 1:10:51 PM

E2300616-003x100

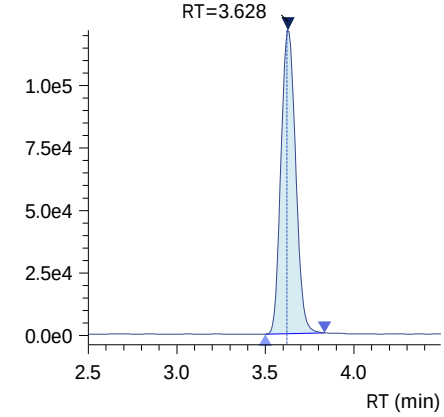
Sample ID: E2300616-003
Date Acquired: 6/30/2023 10:57:09 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230630\20230630-027.lcd
Vial: 40 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.628	699684	236700	18.1891	ng /mL	101.00 >85.00	29.98	21.78 -40.45
Sodium Perchlorate-18O4_IS	Auto	3.622	236700	236700	1.0000	ng /mL	----	----	

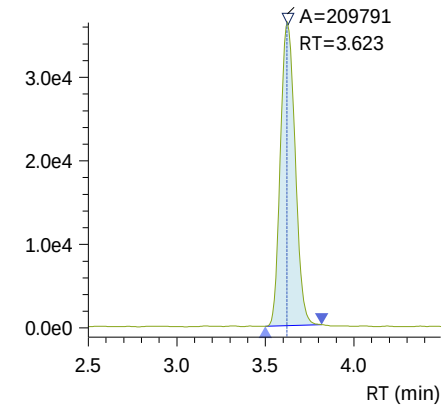
Perchlorate

Conc 18.1891
R#1 29.98 (31.12)

Q 99.00>83.00 (-) A=699684 RT=3.628 1.22e5



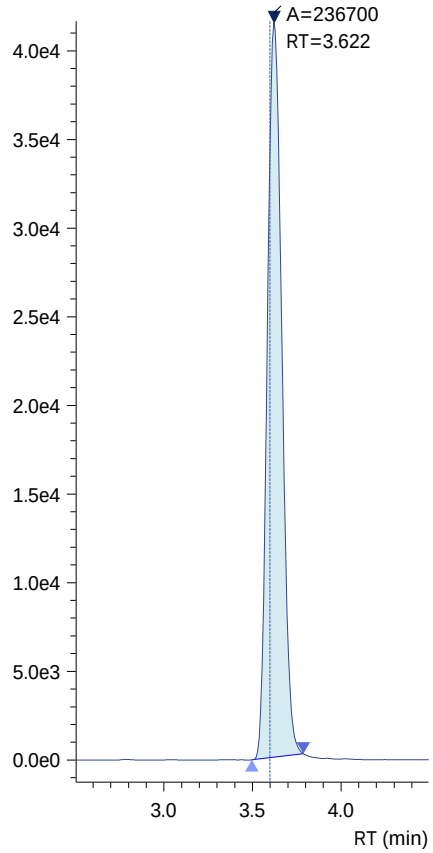
R1 101.00>85.00 (-) 3.66e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 4.17e4



Insight Report

Printed at 6/30/2023 1:10:51 PM

E2300616-004x100

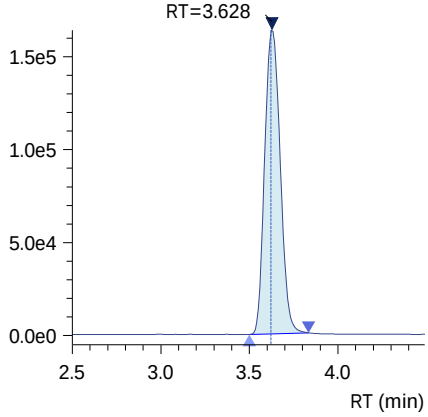
Sample ID: E2300616-004
Date Acquired: 6/30/2023 11:02:43 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230630\20230630-028.lcd
Vial: 41 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.628	996999	195324	31.4083	ng /mL	101.00 >85.00	30.33	21.78 -40.45
Sodium Perchlorate-18O4_IS	Auto	3.620	195324	195324	1.0000	ng /mL	----	----	

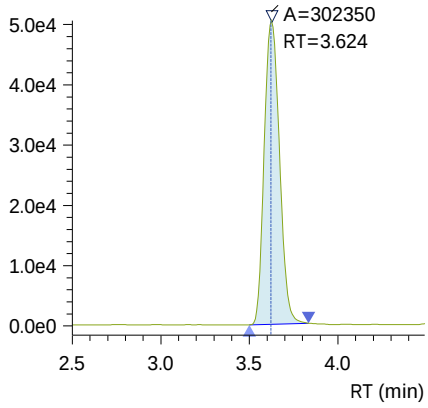
Perchlorate

Conc 31.4083
R#1 30.33 (31.12)

Q 99.00>83.00 (-) A=996999 RT=3.628 1.64e5



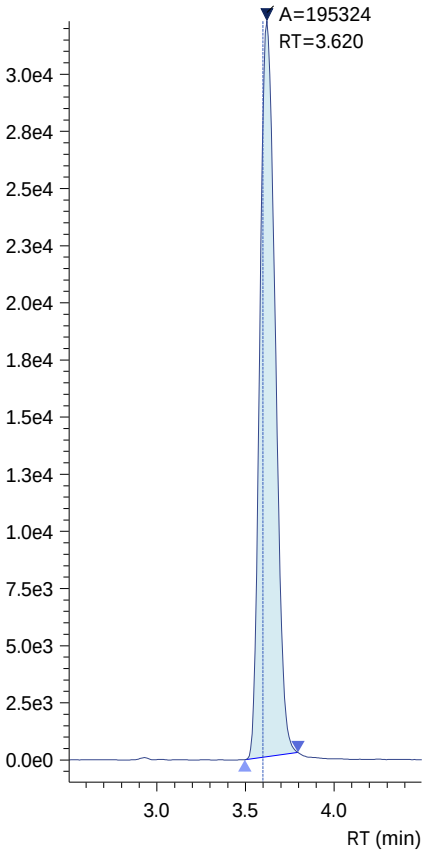
R1 101.00>85.00 (-) 5.07e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.23e4



Insight Report

Printed at 6/30/2023 1:10:51 PM

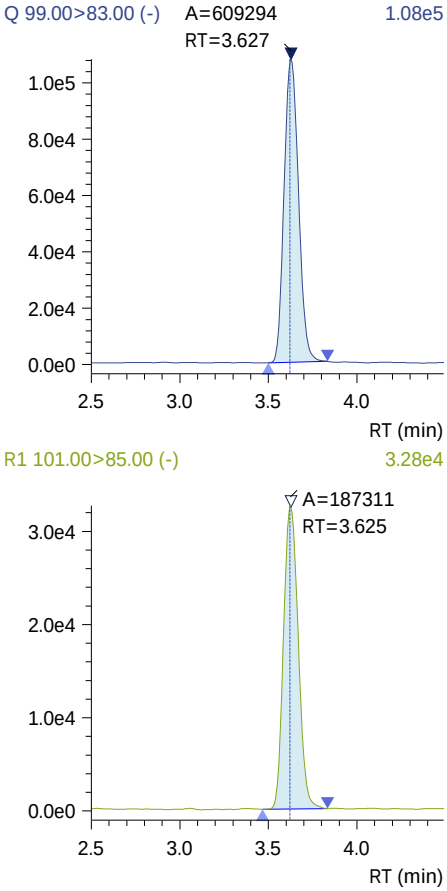
E2300616-005x100

Sample ID: E2300616-005
Date Acquired: 6/30/2023 11:08:13 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230630\20230630-029.lcd
Vial: 42 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.627	609294	253350	14.7983	ng /mL	101.00 >85.00	30.74	21.78 -40.45
Sodium Perchlorate-18O4_IS	Auto	3.623	253350	253350	1.0000	ng /mL	----	----	

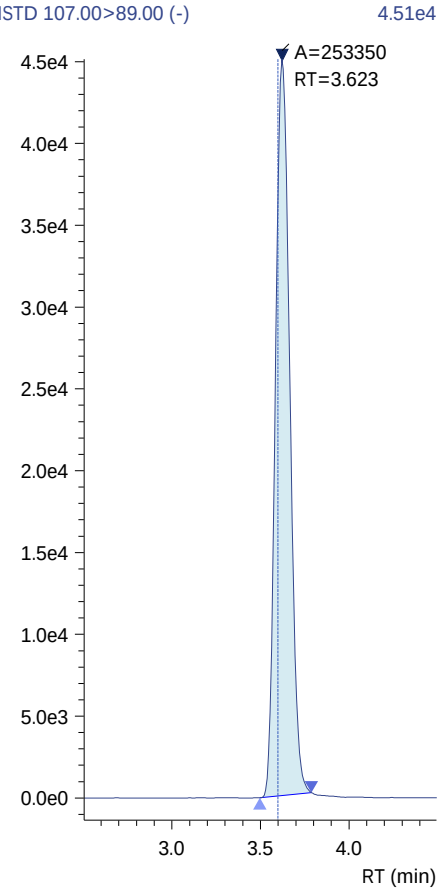
Perchlorate

Conc 14.7983
R#1 30.74 (31.12)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/30/2023 1:10:51 PM

E2300616-006x100

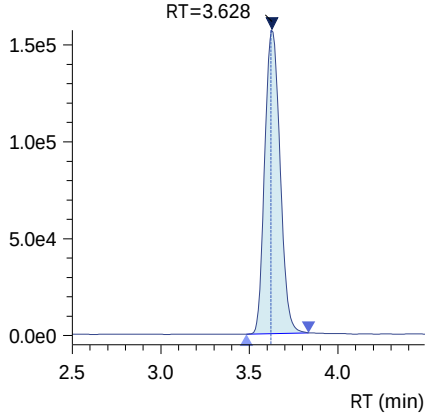
Sample ID: E2300616-006
Date Acquired: 6/30/2023 11:13:45 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230630\20230630-030.lcd
Vial: 43 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.628	942129	202320	28.6535	ng /mL	101.00 >85.00	30.71	21.78 -40.45
Sodium Perchlorate-18O4_IS	Auto	3.620	202320	202320	1.0000	ng /mL	----	----	

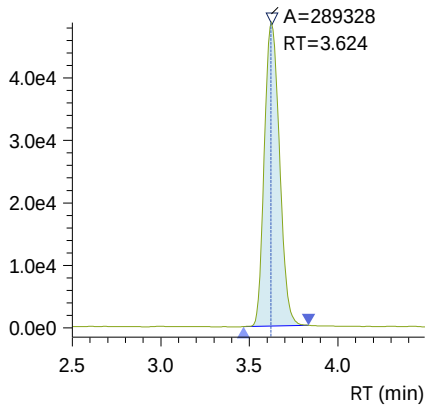
Perchlorate

Conc 28.6535
R#1 30.71 (31.12)

Q 99.00>83.00 (-) A=942129 1.58e5



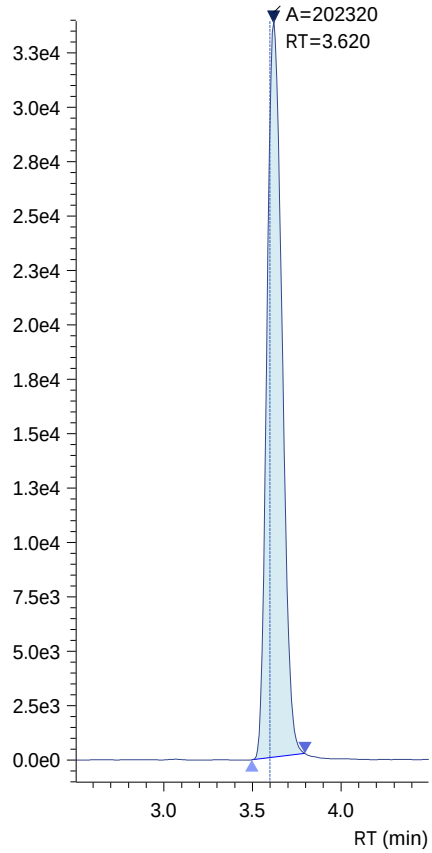
R1 101.00>85.00 (-) 4.88e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.40e4



Insight Report

Printed at 6/30/2023 1:10:51 PM

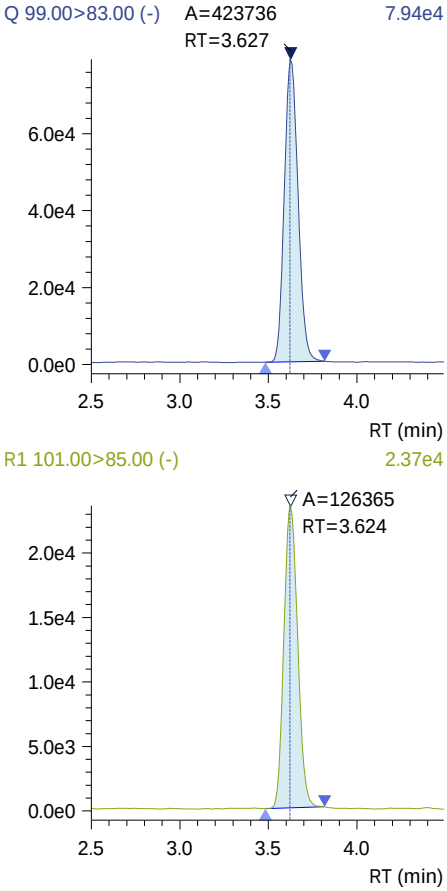
CCV

Sample ID: CCV
Date Acquired: 6/30/2023 11:30:22 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230630\20230630-033.lcd
Vial: 3 | 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	Auto	3.627	423736	247134	10.5504	ng /mL	101.00 >85.00	29.82	21.78 -40.45
Sodium Perchlorate-18O4 _IS	Auto	3.622	247134	247134	1.0000	ng /mL	----	----	

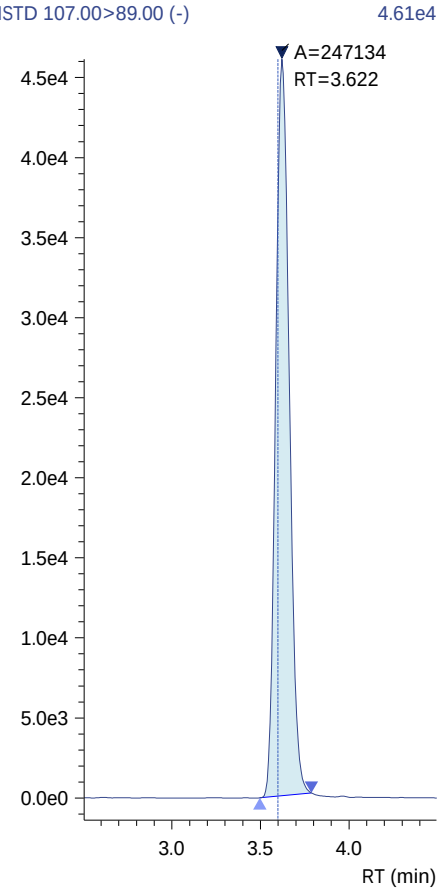
Perchlorate

Conc 10.5504
R#1 29.82 (31.12)



Sodium Perchlorate-18O4_IS

Conc 1.0000



HS23061812-MSVOA-SW8260

ALS WO# HS23061812

01202526

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right partner.

Form 1

Organic Analysis Data Sheet

Volatiles by EPA 8260

Workorder

HS23061812

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/07/2023

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

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder **HS23061812**

Volatiles by EPA 8260

HS23061812-01

MW22_062423

Collected	Received	Matrix	Basis
06/24/23 12:35	06/27/23 09:40	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
1,2-Dichloroethane	ug/L	7.1		0.20	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/29/23 21:31	VOA9_440247	U062930.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/29/23 21:31	VOA9_440247	U062930.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/29/23 21:31	VOA9_440247	U062930.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/29/23 21:31	VOA9_440247	U062930.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder **HS23061812**

Volatiles by EPA 8260

HS23061812-01 | **Collected** | **Received** | **Matrix** | **Basis**

MW22_062423 | 06/24/23 12:35 | 06/27/23 09:40 | Groundwater | Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/29/23 21:31	VOA9_440247	U062930.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
Chloroform	ug/L	2.5		0.20	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
cis-1,2-Dichloroethene	ug/L	4.1		0.20	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/29/23 21:31	VOA9_440247	U062930.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/29/23 21:31	VOA9_440247	U062930.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
Trichloroethene	ug/L	320		1.0	5.0	5.0	5	06/30/23 13:35	VOA9_440378	U063009.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 21:31	VOA9_440247	U062930.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder **HS23061812**

Volatiles by EPA 8260

HS23061812-02

18CPTMW06_062423

Collected	Received	Matrix	Basis
06/24/23 10:50	06/27/23 09:40	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/28/23 16:51	VOA6_440138	X062816.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/28/23 16:51	VOA6_440138	X062816.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/28/23 16:51	VOA6_440138	X062816.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/28/23 16:51	VOA6_440138	X062816.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder **HS23061812**

Volatiles by EPA 8260

HS23061812-02

18CPTMW06_062423

Collected	Received	Matrix	Basis
06/24/23 10:50	06/27/23 09:40	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/28/23 16:51	VOA6_440138	X062816.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/28/23 16:51	VOA6_440138	X062816.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/28/23 16:51	VOA6_440138	X062816.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
Trichloroethene	ug/L	6.5		0.20	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:51	VOA6_440138	X062816.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder **HS23061812**

Volatiles by EPA 8260

HS23061812-04

129_062623

Collected	Received	Matrix	Basis
06/26/23 13:45	06/27/23 09:40	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	5.0	U	1.5	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
1,1,1-Trichloroethane	ug/L	5.0	U	1.0	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
1,1,2,2-Tetrachloroethane	ug/L	5.0	U	2.5	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
1,1,2-Trichloroethane	ug/L	5.0	U	1.5	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
1,1-Dichloroethane	ug/L	5.0	U	1.0	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
1,1-Dichloroethene	ug/L	5.0	U	1.0	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
1,1-Dichloropropene	ug/L	5.0	U	1.5	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
1,2,3-Trichlorobenzene	ug/L	5.0	U	2.0	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
1,2,3-Trichloropropane	ug/L	5.0	U	2.5	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
1,2,4-Trichlorobenzene	ug/L	5.0	U	2.5	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
1,2,4-Trimethylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
1,2-Dibromo-3-chloropropane	ug/L	5.0	U	1.0	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
1,2-Dibromoethane	ug/L	5.0	U	1.0	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
1,2-Dichlorobenzene	ug/L	5.0	U	2.5	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
1,2-Dichloroethane	ug/L	9.1		1.0	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
1,2-Dichloropropane	ug/L	5.0	U	2.5	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
1,3,5-Trimethylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
1,3-Dichlorobenzene	ug/L	5.0	U	2.0	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
1,3-Dichloropropane	ug/L	5.0	U	1.5	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
1,4-Dichlorobenzene	ug/L	5.0	U	2.0	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
2,2-Dichloropropane	ug/L	5.0	U	1.0	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
2-Butanone	ug/L	10	U	2.5	10	10	5	06/29/23 17:25	VOA9_440247	U062919.D
2-Chlorotoluene	ug/L	5.0	U	1.5	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
2-Hexanone	ug/L	10	U	5.0	10	10	5	06/29/23 17:25	VOA9_440247	U062919.D
4-Chlorotoluene	ug/L	5.0	U	2.0	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
4-Isopropyltoluene	ug/L	5.0	U	1.5	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
4-Methyl-2-pentanone	ug/L	10	U	3.5	10	10	5	06/29/23 17:25	VOA9_440247	U062919.D
Acetone	ug/L	10	U	2.0	10	10	5	06/29/23 17:25	VOA9_440247	U062919.D
Benzene	ug/L	5.0	U	1.0	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
Bromobenzene	ug/L	5.0	U	2.0	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
Bromochloromethane	ug/L	5.0	U	1.0	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
Bromodichloromethane	ug/L	5.0	U	1.0	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
Bromoform	ug/L	5.0	U	2.0	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder **HS23061812**

Volatiles by EPA 8260

HS23061812-04

129_062623

Collected	Received	Matrix	Basis
06/26/23 13:45	06/27/23 09:40	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	5.0	U	2.0	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
Carbon disulfide	ug/L	10	U	3.0	10	10	5	06/29/23 17:25	VOA9_440247	U062919.D
Carbon tetrachloride	ug/L	5.0	U	2.5	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
Chlorobenzene	ug/L	5.0	U	1.5	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
Chloroethane	ug/L	5.0	U	1.5	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
Chloroform	ug/L	4.2	J	1.0	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
Chloromethane	ug/L	5.0	U	1.0	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
cis-1,2-Dichloroethene	ug/L	5.7		1.0	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
cis-1,3-Dichloropropene	ug/L	5.0	U	1.0	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
Dibromochloromethane	ug/L	5.0	U	1.5	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
Dibromomethane	ug/L	5.0	U	1.0	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
Dichlorodifluoromethane	ug/L	5.0	U	1.5	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
Ethylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
Hexachlorobutadiene	ug/L	5.0	U	5.0	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
Isopropylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
m,p-Xylene	ug/L	10	U	2.5	10	10	5	06/29/23 17:25	VOA9_440247	U062919.D
Methylene chloride	ug/L	10	U	2.0	10	10	5	06/29/23 17:25	VOA9_440247	U062919.D
Naphthalene	ug/L	5.0	U	1.5	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
n-Butylbenzene	ug/L	5.0	U	2.0	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
n-Propylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
o-Xylene	ug/L	5.0	U	1.5	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
sec-Butylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
Styrene	ug/L	5.0	U	1.5	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
tert-Butylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
Tetrachloroethene	ug/L	5.0	U	1.5	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
Toluene	ug/L	5.0	U	1.0	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
trans-1,2-Dichloroethene	ug/L	5.0	U	1.0	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
trans-1,3-Dichloropropene	ug/L	5.0	U	1.0	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
Trichloroethene	ug/L	680		1.0	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
Trichlorofluoromethane	ug/L	5.0	U	1.5	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D
Vinyl chloride	ug/L	5.0	U	1.0	5.0	5.0	5	06/29/23 17:25	VOA9_440247	U062919.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder **HS23061812**

Volatiles by EPA 8260

HS23061812-05

MW6_062623

Collected	Received	Matrix	Basis
06/26/23 12:05	06/27/23 09:40	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
1,1-Dichloroethane	ug/L	1.5		0.20	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
1,3-Dichlorobenzene	ug/L	0.64	J	0.40	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/28/23 19:39	VOA6_440138	X062824.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/28/23 19:39	VOA6_440138	X062824.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/28/23 19:39	VOA6_440138	X062824.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/28/23 19:39	VOA6_440138	X062824.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder **HS23061812**

Volatiles by EPA 8260

HS23061812-05

MW6_062623

Collected	Received	Matrix	Basis
06/26/23 12:05	06/27/23 09:40	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/28/23 19:39	VOA6_440138	X062824.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
cis-1,2-Dichloroethene	ug/L	4.9		0.20	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/28/23 19:39	VOA6_440138	X062824.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/28/23 19:39	VOA6_440138	X062824.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
Trichloroethene	ug/L	15		0.20	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D
Vinyl chloride	ug/L	0.92	J	0.20	1.0	1.0	1	06/28/23 19:39	VOA6_440138	X062824.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder **HS23061812**

Volatiles by EPA 8260

HS23061812-06

MW21_062623

Collected	Received	Matrix	Basis
06/26/23 08:50	06/27/23 09:40	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	5.0	U	1.5	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
1,1,1-Trichloroethane	ug/L	5.0	U	1.0	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
1,1,2,2-Tetrachloroethane	ug/L	5.0	U	2.5	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
1,1,2-Trichloroethane	ug/L	11		1.5	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
1,1-Dichloroethane	ug/L	7.6		1.0	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
1,1-Dichloroethene	ug/L	5.0	U	1.0	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
1,1-Dichloropropene	ug/L	5.0	U	1.5	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
1,2,3-Trichlorobenzene	ug/L	5.0	U	2.0	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
1,2,3-Trichloropropane	ug/L	5.0	U	2.5	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
1,2,4-Trichlorobenzene	ug/L	5.0	U	2.5	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
1,2,4-Trimethylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
1,2-Dibromo-3-chloropropane	ug/L	5.0	U	1.0	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
1,2-Dibromoethane	ug/L	5.0	U	1.0	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
1,2-Dichlorobenzene	ug/L	5.0	U	2.5	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
1,2-Dichloroethane	ug/L	22		1.0	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
1,2-Dichloropropane	ug/L	5.0	U	2.5	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
1,3,5-Trimethylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
1,3-Dichlorobenzene	ug/L	5.0	U	2.0	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
1,3-Dichloropropane	ug/L	5.0	U	1.5	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
1,4-Dichlorobenzene	ug/L	5.0	U	2.0	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
2,2-Dichloropropane	ug/L	5.0	U	1.0	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
2-Butanone	ug/L	10	U	2.5	10	10	5	06/28/23 21:03	VOA6_440138	X062828.D
2-Chlorotoluene	ug/L	5.0	U	1.5	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
2-Hexanone	ug/L	10	U	5.0	10	10	5	06/28/23 21:03	VOA6_440138	X062828.D
4-Chlorotoluene	ug/L	5.0	U	2.0	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
4-Isopropyltoluene	ug/L	5.0	U	1.5	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
4-Methyl-2-pentanone	ug/L	10	U	3.5	10	10	5	06/28/23 21:03	VOA6_440138	X062828.D
Acetone	ug/L	10	U	2.0	10	10	5	06/28/23 21:03	VOA6_440138	X062828.D
Benzene	ug/L	5.0	U	1.0	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
Bromobenzene	ug/L	5.0	U	2.0	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
Bromochloromethane	ug/L	5.0	U	1.0	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
Bromodichloromethane	ug/L	5.0	U	1.0	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
Bromoform	ug/L	5.0	U	2.0	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder **HS23061812**

Volatiles by EPA 8260

HS23061812-06

MW21_062623

Collected	Received	Matrix	Basis
06/26/23 08:50	06/27/23 09:40	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	5.0	U	2.0	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
Carbon disulfide	ug/L	10	U	3.0	10	10	5	06/28/23 21:03	VOA6_440138	X062828.D
Carbon tetrachloride	ug/L	5.0	U	2.5	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
Chlorobenzene	ug/L	5.0	U	1.5	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
Chloroethane	ug/L	5.0	U	1.5	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
Chloroform	ug/L	13		1.0	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
Chloromethane	ug/L	5.0	U	1.0	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
cis-1,2-Dichloroethene	ug/L	4,400		10	50	50	50	06/28/23 21:24	VOA6_440138	X062829.D
cis-1,3-Dichloropropene	ug/L	5.0	U	1.0	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
Dibromochloromethane	ug/L	5.0	U	1.5	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
Dibromomethane	ug/L	5.0	U	1.0	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
Dichlorodifluoromethane	ug/L	5.0	U	1.5	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
Ethylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
Hexachlorobutadiene	ug/L	5.0	U	5.0	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
Isopropylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
m,p-Xylene	ug/L	10	U	2.5	10	10	5	06/28/23 21:03	VOA6_440138	X062828.D
Methylene chloride	ug/L	10	U	2.0	10	10	5	06/28/23 21:03	VOA6_440138	X062828.D
Naphthalene	ug/L	5.0	U	1.5	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
n-Butylbenzene	ug/L	5.0	U	2.0	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
n-Propylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
o-Xylene	ug/L	5.0	U	1.5	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
sec-Butylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
Styrene	ug/L	5.0	U	1.5	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
tert-Butylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
Tetrachloroethene	ug/L	5.0	U	1.5	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
Toluene	ug/L	5.0	U	1.0	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
trans-1,2-Dichloroethene	ug/L	15		1.0	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
trans-1,3-Dichloropropene	ug/L	5.0	U	1.0	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
Trichloroethene	ug/L	4,700		10	50	50	50	06/28/23 21:24	VOA6_440138	X062829.D
Trichlorofluoromethane	ug/L	5.0	U	1.5	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D
Vinyl chloride	ug/L	32		1.0	5.0	5.0	5	06/28/23 21:03	VOA6_440138	X062828.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder **HS23061812**

Volatiles by EPA 8260

HS23061812-07

109_062623

Collected	Received	Matrix	Basis
06/26/23 10:40	06/27/23 09:40	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	10	U	3.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
1,1,1-Trichloroethane	ug/L	10	U	2.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
1,1,2,2-Tetrachloroethane	ug/L	10	U	5.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
1,1,2-Trichloroethane	ug/L	10	U	3.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
1,1-Dichloroethane	ug/L	10	U	2.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
1,1-Dichloroethene	ug/L	10	U	2.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
1,1-Dichloropropene	ug/L	10	U	3.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
1,2,3-Trichlorobenzene	ug/L	10	U	4.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
1,2,3-Trichloropropane	ug/L	10	U	5.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
1,2,4-Trichlorobenzene	ug/L	10	U	5.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
1,2,4-Trimethylbenzene	ug/L	10	U	3.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
1,2-Dibromo-3-chloropropane	ug/L	10	U	2.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
1,2-Dibromoethane	ug/L	10	U	2.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
1,2-Dichlorobenzene	ug/L	10	U	5.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
1,2-Dichloroethane	ug/L	10	U	2.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
1,2-Dichloropropane	ug/L	10	U	5.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
1,3,5-Trimethylbenzene	ug/L	10	U	3.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
1,3-Dichlorobenzene	ug/L	10	U	4.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
1,3-Dichloropropane	ug/L	10	U	3.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
1,4-Dichlorobenzene	ug/L	10	U	4.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
2,2-Dichloropropane	ug/L	10	U	2.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
2-Butanone	ug/L	20	U	5.0	20	20	10	06/28/23 20:00	VOA6_440138	X062825.D
2-Chlorotoluene	ug/L	10	U	3.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
2-Hexanone	ug/L	20	U	10	20	20	10	06/28/23 20:00	VOA6_440138	X062825.D
4-Chlorotoluene	ug/L	10	U	4.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
4-Isopropyltoluene	ug/L	10	U	3.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
4-Methyl-2-pentanone	ug/L	20	U	7.0	20	20	10	06/28/23 20:00	VOA6_440138	X062825.D
Acetone	ug/L	20	U	4.0	20	20	10	06/28/23 20:00	VOA6_440138	X062825.D
Benzene	ug/L	10	U	2.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
Bromobenzene	ug/L	10	U	4.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
Bromochloromethane	ug/L	10	U	2.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
Bromodichloromethane	ug/L	10	U	2.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
Bromoform	ug/L	10	U	4.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder **HS23061812**

Volatiles by EPA 8260

HS23061812-07

109_062623

Collected	Received	Matrix	Basis
06/26/23 10:40	06/27/23 09:40	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	10	U	4.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
Carbon disulfide	ug/L	20	U	6.0	20	20	10	06/28/23 20:00	VOA6_440138	X062825.D
Carbon tetrachloride	ug/L	10	U	5.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
Chlorobenzene	ug/L	10	U	3.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
Chloroethane	ug/L	10	U	3.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
Chloroform	ug/L	10	U	2.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
Chloromethane	ug/L	10	U	2.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
cis-1,2-Dichloroethene	ug/L	710		2.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
cis-1,3-Dichloropropene	ug/L	10	U	2.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
Dibromochloromethane	ug/L	10	U	3.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
Dibromomethane	ug/L	10	U	2.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
Dichlorodifluoromethane	ug/L	10	U	3.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
Ethylbenzene	ug/L	10	U	3.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
Hexachlorobutadiene	ug/L	10	U	10	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
Isopropylbenzene	ug/L	10	U	3.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
m,p-Xylene	ug/L	20	U	5.0	20	20	10	06/28/23 20:00	VOA6_440138	X062825.D
Methylene chloride	ug/L	20	U	4.0	20	20	10	06/28/23 20:00	VOA6_440138	X062825.D
Naphthalene	ug/L	10	U	3.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
n-Butylbenzene	ug/L	10	U	4.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
n-Propylbenzene	ug/L	10	U	3.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
o-Xylene	ug/L	10	U	3.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
sec-Butylbenzene	ug/L	10	U	3.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
Styrene	ug/L	10	U	3.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
tert-Butylbenzene	ug/L	10	U	3.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
Tetrachloroethene	ug/L	10	U	3.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
Toluene	ug/L	10	U	2.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
trans-1,2-Dichloroethene	ug/L	10	U	2.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
trans-1,3-Dichloropropene	ug/L	10	U	2.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
Trichloroethene	ug/L	1,200		2.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
Trichlorofluoromethane	ug/L	10	U	3.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D
Vinyl chloride	ug/L	10	U	2.0	10	10	10	06/28/23 20:00	VOA6_440138	X062825.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder **HS23061812**

Volatiles by EPA 8260

HS23061812-08

Trip Blank

Collected	Received	Matrix	Basis
06/24/23 00:00	06/27/23 09:40	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/28/23 16:30	VOA6_440138	X062815.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/28/23 16:30	VOA6_440138	X062815.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/28/23 16:30	VOA6_440138	X062815.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/28/23 16:30	VOA6_440138	X062815.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder **HS23061812**

Volatiles by EPA 8260

HS23061812-08

Trip Blank

Collected	Received	Matrix	Basis
06/24/23 00:00	06/27/23 09:40	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/28/23 16:30	VOA6_440138	X062815.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/28/23 16:30	VOA6_440138	X062815.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/28/23 16:30	VOA6_440138	X062815.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 16:30	VOA6_440138	X062815.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder **HS23061812**

Volatiles by EPA 8260

VBLKW-230628	Collected	Received	Matrix	Basis
VBLKW-230628	NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/28/23 13:41	VOA6_440138	X062807.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/28/23 13:41	VOA6_440138	X062807.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder **HS23061812**

Volatiles by EPA 8260

VBLKW-230628	Collected	Received	Matrix	Basis
VBLKW-230628	NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:41	VOA6_440138	X062807.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder **HS23061812**

Volatiles by EPA 8260

VBLKW-230629

VBLKW-230629

Collected	Received	Matrix	Basis
NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/29/23 12:39	VOA9_440247	U062907.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/29/23 12:39	VOA9_440247	U062907.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/29/23 12:39	VOA9_440247	U062907.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/29/23 12:39	VOA9_440247	U062907.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder **HS23061812**

Volatiles by EPA 8260

VBLKW-230629

VBLKW-230629

Collected	Received	Matrix	Basis
NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/29/23 12:39	VOA9_440247	U062907.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/29/23 12:39	VOA9_440247	U062907.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/29/23 12:39	VOA9_440247	U062907.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/29/23 12:39	VOA9_440247	U062907.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS23061812

Volatiles by EPA 8260

VBLKW-230630

VBLKW-230630

Collected	Received	Matrix	Basis
NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/30/23 12:50	VOA9_440378	U063007.D

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Form 2

System Monitoring Compound Recovery

Volatiles by EPA 8260

Workorder

HS23061812

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/07/2023

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 18 24

Workorder: HS23061812

Volatiles by EPA 8260

RunID: VOA6-440138

CCB-CCB	Analyzed	Conc Units	Dilution
CCB	06/28/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	41.02	50	82.0		80-120
4-Bromofluorobenzene	45.83	50	91.7		80-120
Dibromofluoromethane	45.07	50	90.1		80-120
Toluene-d8	51.72	50	103		80-120

CCV-CCV	Analyzed	Conc Units	Dilution
CCV	06/28/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	43.63	50	87.3		80-120
4-Bromofluorobenzene	48.91	50	97.8		80-120
Dibromofluoromethane	47.4	50	94.8		80-120
Toluene-d8	47.39	50	94.8		80-120

HS23061812-02	Analyzed	Conc Units	Dilution
18CPTMW06_062423	06/28/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	42	50	83.1		81-118
4-Bromofluorobenzene	48	50	95.3		85-114
Dibromofluoromethane	45	50	90.1		80-119
Toluene-d8	51	50	103		89-112

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP 18 24

Workorder: HS23061812

RunID: VOA6-440138

Volatiles by EPA 8260

HS23061812-05	Analyzed	Conc Units	Dilution
MW6_062623	06/28/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	42	50	84.1		81-118
4-Bromofluorobenzene	47	50	93.1		85-114
Dibromofluoromethane	46	50	91.6		80-119
Toluene-d8	52	50	104		89-112

HS23061812-06	Analyzed	Conc Units	Dilution
MW21_062623	06/28/23	%REC	5

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	210	250	83.6		81-118
4-Bromofluorobenzene	230	250	92.8		85-114
Dibromofluoromethane	230	250	90.3		80-119
Toluene-d8	260	250	102		89-112
1,2-Dichloroethane-d4	2100	2500	83.3		81-118
4-Bromofluorobenzene	2300	2500	93.5		85-114
Dibromofluoromethane	2300	2500	91.8		80-119
Toluene-d8	2600	2500	104		89-112

HS23061812-07	Analyzed	Conc Units	Dilution
109_062623	06/28/23	%REC	10

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	410	500	82.5		81-118
4-Bromofluorobenzene	460	500	92.0		85-114
Dibromofluoromethane	450	500	89.9		80-119
Toluene-d8	520	500	103		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS23061812

RunID VOA6-440138

Volatiles by EPA 8260

HS23061812-08 | Analyzed 06/28/23 | Conc Units %REC | Dilution 1

Trip Blank

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	42	50	84.3		81-118
4-Bromofluorobenzene	47	50	94.3		85-114
Dibromofluoromethane	45	50	90.5		80-119
Toluene-d8	52	50	104		89-112

HS23061821-02MS | Analyzed 06/28/23 | Conc Units %REC | Dilution 1

BatchQC

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	41.14	50	82.3		81-118
4-Bromofluorobenzene	47.11	50	94.2		85-114
Dibromofluoromethane	45.16	50	90.3		80-119
Toluene-d8	51.16	50	102		89-112

HS23061821-02MSD | Analyzed 06/28/23 | Conc Units %REC | Dilution 1

BatchQC

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	40.74	50	81.5		81-118
4-Bromofluorobenzene	47.37	50	94.7		85-114
Dibromofluoromethane	44.88	50	89.8		80-119
Toluene-d8	50.86	50	102		89-112

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP 18 24

Workorder: HS23061812

RunID: VOA6-440138

Volatiles by EPA 8260

VBLKW-230628	Analyzed	Conc Units	Dilution
VBLKW-230628	06/28/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	40.53	50	81.1		81-118
4-Bromofluorobenzene	46.45	50	92.9		85-114
Dibromofluoromethane	43.97	50	87.9		80-119
Toluene-d8	51.1	50	102		89-112

VLCSW-230628	Analyzed	Conc Units	Dilution
VLCSW-230628	06/28/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	43	50	86.0		81-118
4-Bromofluorobenzene	48.53	50	97.1		85-114
Dibromofluoromethane	47.12	50	94.2		80-119
Toluene-d8	47.35	50	94.7		89-112

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP 18 24

Workorder: HS23061812

RunID: VOA9-440247

Volatiles by EPA 8260

CCB-CCB	Analyzed	Conc Units	Dilution
CCB	06/29/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	50.12	50	100		80-120
4-Bromofluorobenzene	48.15	50	96.3		80-120
Dibromofluoromethane	48.17	50	96.3		80-120
Toluene-d8	54.19	50	108		80-120

CCV-CCV	Analyzed	Conc Units	Dilution
CCV	06/29/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	48.83	50	97.7		80-120
4-Bromofluorobenzene	50.92	50	102		80-120
Dibromofluoromethane	48.75	50	97.5		80-120
Toluene-d8	47.68	50	95.4		80-120

HS23061812-01	Analyzed	Conc Units	Dilution
MW22_062423	06/29/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	52	50	105		81-118
4-Bromofluorobenzene	46	50	92.4		85-114
Dibromofluoromethane	50	50	101		80-119
Toluene-d8	54	50	107		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS23061812

RunID VOA9-440247

Volatiles by EPA 8260

HS23061812-04	Analyzed	Conc Units	Dilution
129_062623	06/29/23	%REC	5

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	260	250	106		81-118
4-Bromofluorobenzene	240	250	94.2		85-114
Dibromofluoromethane	250	250	98.8		80-119
Toluene-d8	270	250	108		89-112

HS23061825-03MS	Analyzed	Conc Units	Dilution
BatchQC	06/29/23	%REC	50

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2589	2500	104		81-118
4-Bromofluorobenzene	2564	2500	103		85-114
Dibromofluoromethane	2493	2500	99.7		80-119
Toluene-d8	2704	2500	108		89-112

HS23061825-03MSD	Analyzed	Conc Units	Dilution
BatchQC	06/29/23	%REC	50

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2532	2500	101		81-118
4-Bromofluorobenzene	2523	2500	101		85-114
Dibromofluoromethane	2493	2500	99.7		80-119
Toluene-d8	2723	2500	109		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS23061812

RunID VOA9-440247

Volatiles by EPA 8260

VBLKW-230629	Analyzed	Conc Units	Dilution
VBLKW-230629	06/29/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	51.09	50	102		81-118
4-Bromofluorobenzene	47.17	50	94.3		85-114
Dibromofluoromethane	48.53	50	97.1		80-119
Toluene-d8	53.86	50	108		89-112

VLCSW-230629	Analyzed	Conc Units	Dilution
VLCSW-230629	06/29/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	51.69	50	103		81-118
4-Bromofluorobenzene	51.6	50	103		85-114
Dibromofluoromethane	50.54	50	101		80-119
Toluene-d8	48.55	50	97.1		89-112

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP 18 24

Workorder: HS23061812

RunID: VOA9-440378

Volatiles by EPA 8260

CCB-CCB	Analyzed	Conc Units	Dilution
CCB	06/30/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	49.68	50	99.4		80-120
4-Bromofluorobenzene	47.75	50	95.5		80-120
Dibromofluoromethane	48.03	50	96.1		80-120
Toluene-d8	54.04	50	108		80-120

CCV-CCV	Analyzed	Conc Units	Dilution
CCV	06/30/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	49.66	50	99.3		80-120
4-Bromofluorobenzene	50.99	50	102		80-120
Dibromofluoromethane	48.42	50	96.8		80-120
Toluene-d8	49.2	50	98.4		80-120

HS23061812-01	Analyzed	Conc Units	Dilution
MW22_062423	06/30/23	%REC	5

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	260	250	103		81-118
4-Bromofluorobenzene	240	250	94.8		85-114
Dibromofluoromethane	250	250	100		80-119
Toluene-d8	270	250	108		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS23061812

RunID VOA9-440378

Volatiles by EPA 8260

HS23061925-22MS	Analyzed	Conc Units	Dilution
BatchQC	06/30/23	%REC	250

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	12520	12500	100		81-118
4-Bromofluorobenzene	12720	12500	102		85-114
Dibromofluoromethane	12310	12500	98.5		80-119
Toluene-d8	13620	12500	109		89-112

HS23061925-22MSD	Analyzed	Conc Units	Dilution
BatchQC	06/30/23	%REC	250

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	12480	12500	99.8		81-118
4-Bromofluorobenzene	12850	12500	103		85-114
Dibromofluoromethane	12510	12500	100		80-119
Toluene-d8	13520	12500	108		89-112

VBLKW-230630	Analyzed	Conc Units	Dilution
VBLKW-230630	06/30/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	50.45	50	101		81-118
4-Bromofluorobenzene	47.72	50	95.4		85-114
Dibromofluoromethane	48.46	50	96.9		80-119
Toluene-d8	53.62	50	107		89-112

Form 2 - System Monitoring Compound Recovery

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP 18 24	**HS23061812**	

RunID

Volatiles by EPA 8260

VOA9-440378

VLCSW-230629	Analyzed	Conc Units	Dilution
VLCSW-230629	06/30/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	48.68	50	97.4		81-118
4-Bromofluorobenzene	52.02	50	104		85-114
Dibromofluoromethane	48.87	50	97.7		80-119
Toluene-d8	51.75	50	104		89-112

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Form 3A

Matrix Spike/Spike Duplicate Recovery

Volatiles by EPA 8260

Workorder

HS23061812

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/07/2023

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 18 24

Workorder **HS23061812**

RunID VOA6-440138

Volatiles by EPA 8260

BatchQC (HS23061821-02)				HS23061821-02MS				HS23061821-02MSD						
Sample Matrix: Aqueous			Run Date	06/28/23				06/28/23						
Result Units: ug/L			Run Time	15:06				15:27						
			Data File	X062811.D				X062812.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	1	0	19.59	20	98		18.99	20	95		20	3.11	
1,1,1-Trichloroethane	74-131	1	0	17.36	20	87		16.58	20	83		20	4.57	
1,1,2,2-Tetrachloroethane	71-121	1	0	18.31	20	92		16.86	20	84		20	8.26	
1,1,2-Trichloroethane	80-119	1	0	18.53	20	93		18.2	20	91		20	1.81	
1,1-Dichloroethane	77-125	1	0.9801	17.08	20	80		16.14	20	76		20	5.62	
1,1-Dichloroethene	71-131	1	0	18.33	20	92		16.87	20	84		20	8.26	
1,1-Dichloropropene	78-125	1	0	19.39	20	97		18.26	20	91		20	6.02	
1,2,3-Trichlorobenzene	69-129	1	0	20.81	20	104		19.7	20	98		20	5.48	
1,2,3-Trichloropropane	73-122	1	0	18.88	20	94		16.99	20	85		20	10.5	
1,2,4-Trichlorobenzene	69-130	1	0	20.66	20	103		19.99	20	100		20	3.3	
1,2,4-Trimethylbenzene	76-124	1	0	21.36	20	107		19.88	20	99		20	7.17	
1,2-Dibromo-3-chloropropane	62-128	1	0	19.06	20	95		18.25	20	91		20	4.38	
1,2-Dibromoethane	77-121	1	0	18.55	20	93		17.96	20	90		20	3.27	
1,2-Dichlorobenzene	80-119	1	0	20.92	20	105		19.52	20	98		20	6.93	
1,2-Dichloroethane	73-128	1	1.487	19.02	20	88		18.33	20	84		20	3.7	
1,2-Dichloropropane	78-122	1	0	17.77	20	89		17.45	20	87		20	1.85	
1,3,5-Trimethylbenzene	75-124	1	0	21.83	20	109		20.14	20	101		20	8.07	
1,3-Dichlorobenzene	80-119	1	0	21.34	20	107		20.16	20	101		20	5.71	
1,3-Dichloropropane	80-119	1	0	18.75	20	94		18	20	90		20	4.05	
1,4-Dichlorobenzene	79-118	1	0	20.86	20	104		19.84	20	99		20	5.04	
2,2-Dichloropropane	60-139	1	0	18.1	20	90		16.88	20	84		20	6.93	
2-Butanone	56-143	1	0	28.82	40	72		25.05	40	63		20	14	
2-Chlorotoluene	79-122	1	0	20.89	20	104		19.27	20	96		20	8.1	
2-Hexanone	57-139	1	0	33.56	40	84		32.82	40	82		20	2.23	
4-Chlorotoluene	78-122	1	0	21.37	20	107		19.57	20	98		20	8.79	
4-Isopropyltoluene	77-127	1	0	22.67	20	113		21.08	20	105		20	7.28	
4-Methyl-2-pentanone	67-130	1	0	34.18	40	85		33.63	40	84		20	1.6	
Acetone	39-160	1	0	25.54	40	64		25.52	40	64		20	0.104	
Benzene	79-120	1	0	18.77	20	94		18.02	20	90		20	4.06	
Bromobenzene	80-120	1	0	21.2	20	106		19.93	20	100		20	6.16	
Bromochloromethane	78-123	1	0	16.98	20	85		16.66	20	83		20	1.92	
Bromodichloromethane	79-125	1	0	17.26	20	86		16.74	20	84		20	3.04	
Bromoform	66-130	1	0	18.74	20	94		18.4	20	92		20	1.84	
Bromomethane	53-141	1	0	14.02	20	70		15.43	20	77		20	9.58	

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 18 24

Workorder **HS23061812**

RunID VOA6-440138

Volatiles by EPA 8260

BatchQC (HS23061821-02)				HS23061821-02MS				HS23061821-02MSD						
Sample Matrix: Aqueous			Run Date	06/28/23				06/28/23						
Result Units: ug/L			Run Time	15:06				15:27						
			Data File	X062811.D				X062812.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Carbon disulfide	64-133	1	0	31.55	40	79		29.16	40	73		20	7.87	
Carbon tetrachloride	72-136	1	0	20	20	100		19.17	20	96		20	4.22	
Chlorobenzene	82-118	1	0	20.29	20	101		19.63	20	98		20	3.31	
Chloroethane	60-138	1	0	18.62	20	93		19.98	20	100		20	7	
Chloroform	79-124	1	0	16.01	20	80		15.33	20	77		20	4.35	
Chloromethane	50-139	1	0	20.94	20	105		17.91	20	90		20	15.6	
cis-1,2-Dichloroethene	78-123	1	4.836	23.06	20	91		21.45	20	83		20	7.25	
cis-1,3-Dichloropropene	75-124	1	0	17.91	20	90		17.43	20	87		20	2.71	
Dibromochloromethane	74-126	1	0	19.11	20	96		18.73	20	94		20	2.01	
Dibromomethane	79-123	1	0	17.62	20	88		17.71	20	88		20	0.491	
Dichlorodifluoromethane	32-152	1	0	16.44	20	82		15.38	20	77		20	6.66	
Ethylbenzene	79-121	1	0	20.8	20	104		19.79	20	99		20	4.97	
Hexachlorobutadiene	66-134	1	0	23.3	20	117		21.46	20	107		20	8.23	
Isopropylbenzene	72-131	1	0	21.44	20	107		20.52	20	103		20	4.42	
m,p-Xylene	80-121	1	0	43.17	40	108		40.87	40	102		20	5.48	
Methylene chloride	74-124	1	0	19.05	20	95		16.79	20	84		20	12.6	
Naphthalene	61-128	1	0	19.55	20	98		18.59	20	93		20	5.04	
n-Butylbenzene	75-128	1	0	22.7	20	113		21.21	20	106		20	6.78	
n-Propylbenzene	76-126	1	0	22.09	20	110		20.45	20	102		20	7.74	
o-Xylene	78-122	1	0	20.41	20	102		19.87	20	99		20	2.67	
sec-Butylbenzene	77-126	1	0	22.62	20	113		21.05	20	105		20	7.19	
Styrene	78-123	1	0	20.52	20	103		20.09	20	100		20	2.09	
tert-Butylbenzene	78-124	1	0	22.83	20	114		21.02	20	105		20	8.28	
Tetrachloroethene	74-129	1	0	22.99	20	115		21.55	20	108		20	6.46	
Toluene	80-121	1	0	20.63	20	103		19.72	20	99		20	4.52	
trans-1,2-Dichloroethene	75-124	1	0	17.47	20	87		16.71	20	84		20	4.4	
trans-1,3-Dichloropropene	73-127	1	0	17.7	20	88		17.26	20	86		20	2.53	
Trichloroethene	79-123	1	3.924	24.12	20	101		23.21	20	96		20	3.85	
Trichlorofluoromethane	65-141	1	0	18.58	20	93		16.82	20	84		20	9.98	
Vinyl chloride	58-137	1	0	17.63	20	88		16.29	20	81		20	7.88	

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 18 24

Workorder **HS23061812**

RunID VOA9-440247

Volatiles by EPA 8260

BatchQC (HS23061825-03)				HS23061825-03MS				HS23061825-03MSD						
Sample Matrix: Aqueous			Run Date	06/29/23				06/29/23						
Result Units: ug/L			Run Time	15:10				15:33						
			Data File	U062913.D				U062914.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	50	0	1105	1000	110		1098	1000	110		20	0.62	
1,1,1-Trichloroethane	74-131	50	0	1081	1000	108		1069	1000	107		20	1.1	
1,1,2,2-Tetrachloroethane	71-121	50	0	901.2	1000	90		947.9	1000	95		20	5.05	
1,1,2-Trichloroethane	80-119	50	0	973.3	1000	97		995.5	1000	100		20	2.25	
1,1-Dichloroethane	77-125	50	0	956	1000	96		933.7	1000	93		20	2.36	
1,1-Dichloroethene	71-131	50	0	1081	1000	108		1058	1000	106		20	2.15	
1,1-Dichloropropene	78-125	50	0	1153	1000	115		1153	1000	115		20	0.0741	
1,2,3-Trichlorobenzene	69-129	50	0	868.2	1000	87		937.2	1000	94		20	7.65	
1,2,3-Trichloropropane	73-122	50	0	902.8	1000	90		937.5	1000	94		20	3.76	
1,2,4-Trichlorobenzene	69-130	50	0	905.1	1000	90		956.4	1000	96		20	5.51	
1,2,4-Trimethylbenzene	76-124	50	0	1094	1000	109		1143	1000	114		20	4.42	
1,2-Dibromo-3-chloropropane	62-128	50	0	804.1	1000	80		843.7	1000	84		20	4.8	
1,2-Dibromoethane	77-121	50	0	990.6	1000	99		1012	1000	101		20	2.15	
1,2-Dichlorobenzene	80-119	50	0	999.5	1000	100		1040	1000	104		20	3.95	
1,2-Dichloroethane	73-128	50	79.85	1151	1000	107		1133	1000	105		20	1.57	
1,2-Dichloropropane	78-122	50	0	1005	1000	101		1019	1000	102		20	1.31	
1,3,5-Trimethylbenzene	75-124	50	0	1141	1000	114		1175	1000	118		20	2.99	
1,3-Dichlorobenzene	80-119	50	0	1032	1000	103		1073	1000	107		20	3.88	
1,3-Dichloropropane	80-119	50	0	1004	1000	100		1034	1000	103		20	2.94	
1,4-Dichlorobenzene	79-118	50	0	1006	1000	101		1053	1000	105		20	4.57	
2,2-Dichloropropane	60-139	50	0	1121	1000	112		1073	1000	107		20	4.38	
2-Butanone	56-143	50	0	1574	2000	79		1649	2000	82		20	4.7	
2-Chlorotoluene	79-122	50	0	1086	1000	109		1101	1000	110		20	1.32	
2-Hexanone	57-139	50	0	1690	2000	84		1768	2000	88		20	4.52	
4-Chlorotoluene	78-122	50	0	1108	1000	111		1127	1000	113		20	1.64	
4-Isopropyltoluene	77-127	50	0	1177	1000	118		1222	1000	122		20	3.78	
4-Methyl-2-pentanone	67-130	50	0	1774	2000	89		1856	2000	93		20	4.55	
Acetone	39-160	50	0	1515	2000	76		1688	2000	84		20	10.8	
Benzene	79-120	50	0	1054	1000	105		1048	1000	105		20	0.589	
Bromobenzene	80-120	50	0	1003	1000	100		1049	1000	105		20	4.48	
Bromochloromethane	78-123	50	0	921.2	1000	92		923.9	1000	92		20	0.287	
Bromodichloromethane	79-125	50	0	1063	1000	106		1083	1000	108		20	1.83	
Bromoform	66-130	50	0	1061	1000	106		1064	1000	106		20	0.238	
Bromomethane	53-141	50	0	1185	1000	118		1113	1000	111		20	6.24	

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 18 24

Workorder **HS23061812**

RunID VOA9-440247

Volatiles by EPA 8260

BatchQC (HS23061825-03)				HS23061825-03MS				HS23061825-03MSD						
Sample Matrix: Aqueous			Run Date	06/29/23				06/29/23						
Result Units: ug/L			Run Time	15:10				15:33						
			Data File	U062913.D				U062914.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Carbon disulfide	64-133	50	0	2138	2000	107		2097	2000	105		20	1.93	
Carbon tetrachloride	72-136	50	0	1245	1000	124		1203	1000	120		20	3.42	
Chlorobenzene	82-118	50	0	1083	1000	108		1084	1000	108		20	0.0917	
Chloroethane	60-138	50	0	998.3	1000	100		948.5	1000	95		20	5.11	
Chloroform	79-124	50	0	967.2	1000	97		982.2	1000	98		20	1.53	
Chloromethane	50-139	50	0	779.4	1000	78		792.8	1000	79		20	1.71	
cis-1,2-Dichloroethene	78-123	50	0	994	1000	99		966.5	1000	97		20	2.81	
cis-1,3-Dichloropropene	75-124	50	0	959.1	1000	96		966.1	1000	97		20	0.728	
Dibromochloromethane	74-126	50	0	1097	1000	110		1082	1000	108		20	1.42	
Dibromomethane	79-123	50	0	1047	1000	105		1017	1000	102		20	2.96	
Dichlorodifluoromethane	32-152	50	0	893.1	1000	89		878.6	1000	88		20	1.63	
Ethylbenzene	79-121	50	0	1129	1000	113		1139	1000	114		20	0.875	
Hexachlorobutadiene	66-134	50	0	1075	1000	107		1124	1000	112		20	4.45	
Isopropylbenzene	72-131	50	0	1215	1000	122		1231	1000	123		20	1.24	
m,p-Xylene	80-121	50	0	2376	2000	119		2372	2000	119		20	0.163	
Methylene chloride	74-124	50	0	994.4	1000	99		1005	1000	101		20	1.09	
Naphthalene	61-128	50	0	811.7	1000	81		925.4	1000	92		20	13.1	
n-Butylbenzene	75-128	50	0	1159	1000	116		1203	1000	120		20	3.7	
n-Propylbenzene	76-126	50	0	1139	1000	114		1192	1000	119		20	4.58	
o-Xylene	78-122	50	0	1142	1000	114		1143	1000	114		20	0.134	
sec-Butylbenzene	77-126	50	0	1171	1000	117		1217	1000	122		20	3.83	
Styrene	78-123	50	0	1161	1000	116		1171	1000	117		20	0.854	
tert-Butylbenzene	78-124	50	0	1150	1000	115		1200	1000	120		20	4.23	
Tetrachloroethene	74-129	50	0	1207	1000	121		1199	1000	120		20	0.625	
Toluene	80-121	50	0	1085	1000	109		1109	1000	111		20	2.12	
trans-1,2-Dichloroethene	75-124	50	0	1027	1000	103		1033	1000	103		20	0.615	
trans-1,3-Dichloropropene	73-127	50	0	947	1000	95		971.1	1000	97		20	2.51	
Trichloroethene	79-123	50	2606	3625	1000	102		3563	1000	96		20	1.72	
Trichlorofluoromethane	65-141	50	0	1188	1000	119		1167	1000	117		20	1.81	
Vinyl chloride	58-137	50	0	990.6	1000	99		966.4	1000	97		20	2.47	

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 18 24

Workorder: HS23061812

RunID: VOA9-440378

Volatiles by EPA 8260

BatchQC (HS23061925-22)				HS23061925-22MS				HS23061925-22MSD						
Sample Matrix: Aqueous			Run Date	06/30/23				06/30/23						
Result Units: ug/L			Run Time	16:57				17:19						
			Data File	U063018.D				U063019.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	250	1320	6386	5000	101		6275	5000	99		20	1.76	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

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Form 3B

Laboratory Control Sample Recovery

Volatiles by EPA 8260

Workorder

HS23061812

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/07/2023

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 18 24

Workorder
HS23061812

SAMPLENUM
VLCSW-230628

Volatiles by EPA 8260

VOA6_440138			VLCSW-230628			
Spike Matrix	Aqueous		**Run Date**	06/28/23		
Result Units	ug/L		**Run Time**	12:59		
			Data File	X062805.D		
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	
1,1,1,2-Tetrachloroethane	78-124	20	20.04	100		
1,1,1-Trichloroethane	74-131	20	17.94	90		
1,1,2,2-Tetrachloroethane	71-121	20	18.8	94		
1,1,2-Trichloroethane	80-119	20	19.79	99		
1,1-Dichloroethane	77-125	20	18.09	90		
1,1-Dichloroethene	71-131	20	18.97	95		
1,1-Dichloropropene	78-125	20	19.05	95		
1,2,3-Trichlorobenzene	69-129	20	21.81	109		
1,2,3-Trichloropropane	73-122	20	18.88	94		
1,2,4-Trichlorobenzene	69-130	20	21.42	107		
1,2,4-Trimethylbenzene	76-124	20	20.2	101		
1,2-Dibromo-3-chloropropane	62-128	20	20.61	103		
1,2-Dibromoethane	77-121	20	20.05	100		
1,2-Dichlorobenzene	80-119	20	21.01	105		
1,2-Dichloroethane	73-128	20	19.04	95		
1,2-Dichloropropane	78-122	20	19.5	98		
1,3,5-Trimethylbenzene	75-124	20	20.28	101		
1,3-Dichlorobenzene	80-119	20	21.06	105		
1,3-Dichloropropane	80-119	20	19.79	99		
1,4-Dichlorobenzene	79-118	20	20.88	104		
2,2-Dichloropropane	60-139	20	19.34	97		
2-Butanone	56-143	40	31.83	80		
2-Chlorotoluene	79-122	20	19.75	99		
2-Hexanone	57-139	40	35.47	89		
4-Chlorotoluene	78-122	20	20.31	102		
4-Isopropyltoluene	77-127	20	20.52	103		
4-Methyl-2-pentanone	67-130	40	35.65	89		
Acetone	39-160	40	32.15	80		
Benzene	79-120	20	19.73	99		
Bromobenzene	80-120	20	21.08	105		
Bromochloromethane	78-123	20	19.36	97		
Bromodichloromethane	79-125	20	18.9	94		
Bromoform	66-130	20	20.41	102		
Bromomethane	53-141	20	20.95	105		

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS23061812

SAMPLENUM
VLCSW-230628

Volatiles by EPA 8260

VOA6_440138			VLCSW-230628			
Spike Matrix	Aqueous	**Run Date**	06/28/23			
Result Units	ug/L	**Run Time**	12:59			
		Data File	X062805.D			
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	
Carbon disulfide	64-133	40	35.45	89		
Carbon tetrachloride	72-136	20	18.78	94		
Chlorobenzene	82-118	20	21.04	105		
Chloroethane	60-138	20	19.61	98		
Chloroform	79-124	20	17.81	89		
Chloromethane	50-139	20	20.49	102		
cis-1,2-Dichloroethene	78-123	20	19.08	95		
cis-1,3-Dichloropropene	75-124	20	19.54	98		
Dibromochloromethane	74-126	20	20.19	101		
Dibromomethane	79-123	20	20.2	101		
Dichlorodifluoromethane	32-152	20	19.37	97		
Ethylbenzene	79-121	20	20.73	104		
Hexachlorobutadiene	66-134	20	21.71	109		
Isopropylbenzene	72-131	20	20.63	103		
m,p-Xylene	80-121	40	43.21	108		
Methylene chloride	74-124	20	18.84	94		
Naphthalene	61-128	20	20.67	103		
n-Butylbenzene	75-128	20	20.7	104		
n-Propylbenzene	76-126	20	20.17	101		
o-Xylene	78-122	20	20.9	105		
sec-Butylbenzene	77-126	20	20.12	101		
Styrene	78-123	20	21.55	108		
tert-Butylbenzene	78-124	20	20.47	102		
Tetrachloroethene	74-129	20	20.98	105		
Toluene	80-121	20	20.66	103		
trans-1,2-Dichloroethene	75-124	20	19	95		
trans-1,3-Dichloropropene	73-127	20	19.35	97		
Trichloroethene	79-123	20	20.82	104		
Trichlorofluoromethane	65-141	20	18.85	94		
Vinyl chloride	58-137	20	18.92	95		

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS23061812

SAMPLENUM
VLCSW-230629

Volatiles by EPA 8260

VOA9_440247			VLCSW-230629			
Spike Matrix	Aqueous		**Run Date**	06/29/23		
Result Units	ug/L		**Run Time**	11:54		
			Data File	U062905.D		
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	
1,1,1,2-Tetrachloroethane	78-124	20	21.59	108		
1,1,1-Trichloroethane	74-131	20	22.86	114		
1,1,2,2-Tetrachloroethane	71-121	20	19.35	97		
1,1,2-Trichloroethane	80-119	20	20	100		
1,1-Dichloroethane	77-125	20	20.52	103		
1,1-Dichloroethene	71-131	20	21.67	108		
1,1-Dichloropropene	78-125	20	22.59	113		
1,2,3-Trichlorobenzene	69-129	20	19.49	98		
1,2,3-Trichloropropane	73-122	20	19.52	98		
1,2,4-Trichlorobenzene	69-130	20	19.84	99		
1,2,4-Trimethylbenzene	76-124	20	22.33	112		
1,2-Dibromo-3-chloropropane	62-128	20	17.04	85		
1,2-Dibromoethane	77-121	20	20.74	104		
1,2-Dichlorobenzene	80-119	20	20.88	104		
1,2-Dichloroethane	73-128	20	22.57	113		
1,2-Dichloropropane	78-122	20	20.74	104		
1,3,5-Trimethylbenzene	75-124	20	22.6	113		
1,3-Dichlorobenzene	80-119	20	21.22	106		
1,3-Dichloropropane	80-119	20	20.44	102		
1,4-Dichlorobenzene	79-118	20	20.89	104		
2,2-Dichloropropane	60-139	20	23.48	117		
2-Butanone	56-143	40	37.08	93		
2-Chlorotoluene	79-122	20	21.88	109		
2-Hexanone	57-139	40	36.36	91		
4-Chlorotoluene	78-122	20	22.27	111		
4-Isopropyltoluene	77-127	20	23.07	115		
4-Methyl-2-pentanone	67-130	40	37.75	94		
Acetone	39-160	40	42.4	106		
Benzene	79-120	20	21.21	106		
Bromobenzene	80-120	20	21.18	106		
Bromochloromethane	78-123	20	20.54	103		
Bromodichloromethane	79-125	20	21.72	109		
Bromoform	66-130	20	21.08	105		
Bromomethane	53-141	20	25.7	129		

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS23061812

SAMPLENUM
VLCSW-230629

Volatiles by EPA 8260

VOA9_440247			VLCSW-230629			
Spike Matrix	Aqueous	**Run Date**	06/29/23			
Result Units	ug/L	**Run Time**	11:54			
		Data File	U062905.D			
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	
Carbon disulfide	64-133	40	48.71	122		
Carbon tetrachloride	72-136	20	23.67	118		
Chlorobenzene	82-118	20	21.57	108		
Chloroethane	60-138	20	20.34	102		
Chloroform	79-124	20	21.4	107		
Chloromethane	50-139	20	17.48	87		
cis-1,2-Dichloroethene	78-123	20	21.04	105		
cis-1,3-Dichloropropene	75-124	20	20.56	103		
Dibromochloromethane	74-126	20	21.84	109		
Dibromomethane	79-123	20	21.48	107		
Dichlorodifluoromethane	32-152	20	20.59	103		
Ethylbenzene	79-121	20	22.09	110		
Hexachlorobutadiene	66-134	20	22.26	111		
Isopropylbenzene	72-131	20	23.27	116		
m,p-Xylene	80-121	40	45.97	115		
Methylene chloride	74-124	20	22.25	111		
Naphthalene	61-128	20	19.43	97		
n-Butylbenzene	75-128	20	22.71	114		
n-Propylbenzene	76-126	20	23.01	115		
o-Xylene	78-122	20	22.16	111		
sec-Butylbenzene	77-126	20	22.88	114		
Styrene	78-123	20	23.28	116		
tert-Butylbenzene	78-124	20	22.7	113		
Tetrachloroethene	74-129	20	22	110		
Toluene	80-121	20	21.55	108		
trans-1,2-Dichloroethene	75-124	20	21.91	110		
trans-1,3-Dichloropropene	73-127	20	19.62	98		
Trichloroethene	79-123	20	20.98	105		
Trichloroethene	79-123	20	21.2	106		
Trichlorofluoromethane	65-141	20	24.07	120		
Vinyl chloride	58-137	20	20.84	104		

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

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Form 4

Method Blank Summary

Volatiles by EPA 8260

Workorder

HS23061812

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/07/2023

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 18 24

Workorder
HS23061812

Volatiles by EPA 8260

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	VBLKW-230628	X062807.D	06/28/23 13:41	VOA6_440138
VLCSW-230628	LCS	VLCSW-230628	X062805.D	06/28/23 12:59	VOA6_440138
BatchQC	MS	HS23061821-02MS	X062811.D	06/28/23 15:06	VOA6_440138
BatchQC	MSD	HS23061821-02MSD	X062812.D	06/28/23 15:27	VOA6_440138
Trip Blank	SAMP	HS23061812-08	X062815.D	06/28/23 16:30	VOA6_440138
18CPTMW06_062423	SAMP	HS23061812-02	X062816.D	06/28/23 16:51	VOA6_440138
MW6_062623	SAMP	HS23061812-05	X062824.D	06/28/23 19:39	VOA6_440138
109_062623	SAMP	HS23061812-07	X062825.D	06/28/23 20:00	VOA6_440138
MW21_062623	SAMP	HS23061812-06	X062828.D	06/28/23 21:03	VOA6_440138
MW21_062623	SAMP	HS23061812-06	X062829.D	06/28/23 21:24	VOA6_440138

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS23061812

Volatiles by EPA 8260

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	VBLKW-230629	U062907.D	06/29/23 12:39	VOA9_440247
VLCSW-230629	LCS	VLCSW-230629	U062905.D	06/29/23 11:54	VOA9_440247
BatchQC	MS	HS23061825-03MS	U062913.D	06/29/23 15:10	VOA9_440247
BatchQC	MSD	HS23061825-03MSD	U062914.D	06/29/23 15:33	VOA9_440247
129_062623	SAMP	HS23061812-04	U062919.D	06/29/23 17:25	VOA9_440247
MW22_062423	SAMP	HS23061812-01	U062930.D	06/29/23 21:31	VOA9_440247

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS23061812

Volatiles by EPA 8260

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	VBLKW-230630	U063007.D	06/30/23 12:50	VOA9_440378
VLCSW-230629	LCS	VLCSW-230629	U063005.D	06/30/23 12:06	VOA9_440378
MW22_062423	SAMP	HS23061812-01	U063009.D	06/30/23 13:35	VOA9_440378
BatchQC	MS	HS23061925-22MS	U063018.D	06/30/23 16:57	VOA9_440378
BatchQC	MSD	HS23061925-22MSD	U063019.D	06/30/23 17:19	VOA9_440378

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Form 5

Instrument Performance Check

Volatiles by EPA 8260

Workorder

HS23061812

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/07/2023

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 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS23061812

RunID
VOA6-438076

Volatiles by EPA 8260

Tune File X061501.D 06/15/23 6/15/2023

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	18.6 (18.6)
75	30.0 - 60.0% of mass 95	48.4 (48.4)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	7.1 (7.1)
173	Less than 2.0% of mass 174	0.6 (0.74) 1
174	50.0 - 120.0% of mass 95	78.8 (78.8)
175	4.0 - 9.0% of mass 174	6.3 (8.04) 1
176	93.0 - 101.0% of mass 174	78 (99.1) 1
177	5.0 - 9.0% of mass 176	5.8 (7.46) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	VSTD000.25	ICAL1	6/15/2023	X061502	VSTD000.25
2	VSTD000.5	ICAL2	6/15/2023	X061503	VSTD000.5
3	VSTD001	ICAL3	6/15/2023	X061504	VSTD001
4	VSTD002	ICAL4	6/15/2023	X061505	VSTD002
5	VSTD005	ICAL5	6/15/2023	X061506	VSTD005
6	VSTD020	ICAL6	6/15/2023	X061507	VSTD020
7	VSTD050	ICAL7	6/15/2023	X061508	VSTD050
8	VSTD100	ICAL8	6/15/2023	X061509	VSTD100
9	VSTD150	ICAL9	6/15/2023	X061510	VSTD150
10	VSTD200	ICAL	6/15/2023	X061511	VSTD200
11	CCV	ICV	6/15/2023	X061514	CCV

Form 5 - Instrument Performance Check

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP 18 24	**HS23061812**	

Volatiles by EPA 8260

RunID: VOA6-438076

Tune File	X061501.D	06/15/23 6/15/2023	This check applies to the following analyses

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS23061812

RunID
VOA6-440138

Volatiles by EPA 8260

Tune File X062801.D 06/28/23 6/28/2023

This check applies to the following analyses

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	15 (15)
75	30.0 - 60.0% of mass 95	43.4 (43.4)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.5 (6.53)
173	Less than 2.0% of mass 174	0.8 (0.787) 1
174	50.0 - 120.0% of mass 95	97.2 (97.2)
175	4.0 - 9.0% of mass 174	7.7 (7.96) 1
176	93.0 - 101.0% of mass 174	95.9 (98.7) 1
177	5.0 - 9.0% of mass 176	5.5 (5.76) 2

%RA - Percent Relative Abundance

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	CCV	CCV	6/28/2023	X062803	CCV
2	CCB	CCB	6/28/2023	X062804	CCB
3	VLCSW-	LCS	6/28/2023	X062805	VLCSW-230628
4	VBLKW-	MBLK	6/28/2023	X062807	VBLKW-230628
5	HS23061821-	MS	6/28/2023	X062811	ZZZZZZMS
6	HS23061821-	MSD	6/28/2023	X062812	ZZZZZZMSD
7	HS23061812-	SAMP	6/28/2023	X062815	Trip Blank
8	HS23061812-	SAMP	6/28/2023	X062816	18CPTMW06_062423
9	HS23061812-	SAMP	6/28/2023	X062824	MW6_062623
10	HS23061812-	SAMP	6/28/2023	X062825	109_062623
11	HS23061812-	SAMP	6/28/2023	X062828	MW21_062623
12	HS23061812-	SAMP	6/28/2023	X062829	MW21_062623
13	CCV-END	CCV_EN	6/28/2023	X062830	CCV-END

Form 5 - Instrument Performance Check

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP 18 24	**HS23061812**	

Volatiles by EPA 8260

RunID: VOA6-440138

Tune File	X062801.D	06/28/23 6/28/2023	This check applies to the following analyses

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS23061812

RunID
VOA9-437296

Volatiles by EPA 8260

Tune File U060601.D 06/06/23 6/6/2023

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	19 (19)
75	30.0 - 60.0% of mass 95	46.7 (46.7)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.9 (6.86)
173	Less than 2.0% of mass 174	0 (0) 1
174	50.0 - 120.0% of mass 95	92.1 (92.1)
175	4.0 - 9.0% of mass 174	8 (8.69) 1
176	93.0 - 101.0% of mass 174	89.4 (97) 1
177	5.0 - 9.0% of mass 176	6.1 (6.87) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	VSTD000.25	ICAL1	6/6/2023	U060602	VSTD000.25
2	VSTD000.5	ICAL2	6/6/2023	U060603	VSTD000.5
3	VSTD005	ICAL5	6/6/2023	U060606	VSTD005
4	VSTD001	ICAL3	6/6/2023	U060607	VSTD001
5	VSTD002	ICAL4	6/6/2023	U060608	VSTD002
6	VSTD020	ICAL6	6/6/2023	U060609	VSTD020
7	VSTD050	ICAL7	6/6/2023	U060610	VSTD050
8	VSTD100	ICAL8	6/6/2023	U060611	VSTD100
9	VSTD150	ICAL9	6/6/2023	U060612	VSTD150
10	VSTD200	ICAL	6/6/2023	U060613	VSTD200
11	CCV	ICV	6/6/2023	U060616	CCV

Form 5 - Instrument Performance Check

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP 18 24	**HS23061812**	

Volatiles by EPA 8260

RunID: VOA9-437296

Tune File	U060601.D	06/06/23 6/6/2023	This check applies to the following analyses

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS23061812

RunID
VOA9-440247

Volatiles by EPA 8260

Tune File U062901.D 06/29/23 6/29/2023

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	19.1 (19.1)
75	30.0 - 60.0% of mass 95	48.6 (48.6)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	7.2 (7.2)
173	Less than 2.0% of mass 174	0 (0) 1
174	50.0 - 120.0% of mass 95	91.8 (91.8)
175	4.0 - 9.0% of mass 174	7.7 (8.41) 1
176	93.0 - 101.0% of mass 174	89.4 (97.3) 1
177	5.0 - 9.0% of mass 176	6.1 (6.85) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	CCV	CCV	6/29/2023	U062903	CCV
2	CCB	CCB	6/29/2023	U062904	CCB
3	VLCSW-	LCS	6/29/2023	U062905	VLCSW-230629
4	VBLKW-	MBLK	6/29/2023	U062907	VBLKW-230629
5	HS23061825-	MS	6/29/2023	U062913	ZZZZZZMS
6	HS23061825-	MSD	6/29/2023	U062914	ZZZZZZMSD
7	HS23061812-	SAMP	6/29/2023	U062919	129_062623
8	HS23061812-	SAMP	6/29/2023	U062930	MW22_062423
9	CCV-END	CCV_EN	6/29/2023	U062931	CCV-END

Form 5 - Instrument Performance Check

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP 18 24	**HS23061812**	

Volatiles by EPA 8260

RunID: VOA9-440247

Tune File	U062901.D	06/29/23 6/29/2023	This check applies to the following analyses

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS23061812

RunID
VOA9-440378

Volatiles by EPA 8260

Tune File U063001.D 06/30/23 6/30/2023

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	19.2 (19.2)
75	30.0 - 60.0% of mass 95	48.9 (48.9)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	7.3 (7.31)
173	Less than 2.0% of mass 174	0 (0) 1
174	50.0 - 120.0% of mass 95	94 (94)
175	4.0 - 9.0% of mass 174	7.7 (8.2) 1
176	93.0 - 101.0% of mass 174	92.5 (98.4) 1
177	5.0 - 9.0% of mass 176	6.4 (6.9) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	CCV	CCV	6/30/2023	U063003	CCV
2	CCB	CCB	6/30/2023	U063004	CCB
3	VLCSW-	LCS	6/30/2023	U063005	VLCSW-230629
4	VBLKW-	MBLK	6/30/2023	U063007	VBLKW-230630
5	HS23061812-	SAMP	6/30/2023	U063009	MW22_062423
6	HS23061925-	MS	6/30/2023	U063018	ZZZZZZMS
7	HS23061925-	MSD	6/30/2023	U063019	ZZZZZZMSD
8	CCV-END	CCV_EN	6/30/2023	U063026	CCV-END

Form 5 - Instrument Performance Check

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP 18 24	**HS23061812**	

Volatiles by EPA 8260

RunID: VOA9-440378

Tune File	U063001.D	06/30/23 6/30/2023	**This check applies to the following analyses**

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Form 6

Initial Calibration Data

Volatiles by EPA 8260

Workorder

HS23061812

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/07/2023

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

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS23061812

RunID VOA6_438076

Volatiles by EPA 8260

Compound	50.00 Level 7 / 0.250 Level 1	100.00 Level 8 / 0.500 Level 2	150.00 Level 9 / 1.00 Level 3	200.00 Level 10 / 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Dichlorodifluoromethane	NE 197396	2615 431897	4505 640204	9827 870731	21019	86585	LINR	0.00663	0.43345		0.99964	
Chloromethane	NE 241131	3301 524590	5922 786709	11295 1090387	25651	97329	LINR	0.02054	0.53963		0.99929	
Propionitrile	NE 0.06176	0.05455 0.06051	0.06270 0.06246	0.05541 0.06236	0.06089	0.06358	AVRG		0.06047		5.37976	
Vinyl Chloride	NE 0.48769	0.60687 0.50556	0.54795 0.50115	0.57402 0.50335	0.48951	0.50986	AVRG		0.52511		7.94630	
Bromomethane	NE 0.27989	0.33537 0.29094	0.33175 0.29103	0.32542 0.28060	0.29769	0.28007	AVRG		0.30142		7.63157	
Chloroethane	NE 0.30426	0.37220 0.30884	0.33836 0.30484	0.32964 0.29773	0.31503	0.31792	AVRG		0.32098		7.20024	
Trichlorofluoromethane	NE 0.55345	0.70569 0.60431	0.65920 0.60479	0.69163 0.60887	0.58830	0.59980	AVRG		0.62401		8.07463	
Acrolein	NE 0.02794	0.03568 0.03158	0.02823 0.03279	0.02994 0.03252	0.03064	0.02991	AVRG		0.03103		7.82710	
Acetone	NE 120180	2789 254517	4663 376478	7818 532376	16276	54363	LINR	-0.00544	0.13002		0.99878	
1,1-Dichloroethene	NE 0.35517	0.45895 0.36783	0.44657 0.36468	0.41881 0.36713	0.37605	0.36786	AVRG		0.39145		10.02453	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS23061812

RunID VOA6_438076

Volatiles by EPA 8260

ICAL Summary Page 2 / 12

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Isobutyl Alcohol	NE 0.06440	0.05685 0.06398	0.06692 0.06447	0.06596 0.06514	0.07003	0.06902	AVRG		0.06519		5.78524	
Acetonitrile	NE 0.04861	0.04721 0.04885	0.04408 0.05012	0.05000 0.04863	0.05074	0.04825	AVRG		0.04850		4.07759	
Allyl Chloride	NE 1.08770	1.16902 1.08886	1.04930 1.11033	1.07830 1.08781	1.11392	1.08331	AVRG		1.09651		3.00701	
Iodomethane	NE 622671	2984 1361652	6227 1987305	14998 2762966	43988	223261	QUAD	0.04643	1.52252	-0.01414	0.99955	
Acrylonitrile	NE 0.15374	0.16498 0.15959	0.14851 0.16440	0.15637 0.16394	0.15489	0.16196	AVRG		0.15871		3.58694	
Methylene Chloride	NE 0.50432	0.65930 0.49542	0.67977 0.48937	0.52763 0.48228	0.60779	0.53053	AVRG		0.55293		13.75211	
Methyl tert-butyl ether	NE 1.31513	1.51541 1.29341	1.35429 1.32919	1.47005 1.30180	1.37915	1.33784	AVRG		1.36625		5.64492	
Carbon Disulfide	NE 1.27200	1.58729 1.32682	1.49094 1.37989	1.45947 1.39563	1.31193	1.32063	AVRG		1.39384		7.29728	
trans-1,2-Dichloroethene	NE 0.43392	0.54737 0.44333	0.51101 0.44594	0.49568 0.44153	0.44892	0.44795	AVRG		0.46841		8.48506	
Vinyl Acetate	NE 1.30590	1.14998 1.23968	1.31997 1.24313	1.13084 1.19252	1.30406	1.36566	AVRG		1.25019		6.44761	
1,1-Dichloroethane	NE 0.79188	0.96555 0.80903	0.89576 0.79801	0.89979 0.79485	0.81735	0.82215	AVRG		0.84382		7.28399	
Chloroprene	NE 0.14920	0.19494 0.16266	0.15806 0.15820	0.19402 0.16101	0.16299	0.15462	AVRG		0.16619		9.98603	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

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Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
2-Butanone	NE 0.16847	0.15780 0.17739	0.15585 0.17973	0.16329 0.18455	0.13672	0.15713	AVRG		0.16455		9.02144	
Methacrylonitrile	NE 0.41001	0.45084 0.39816	0.47260 0.40753	0.34475 0.40591	0.41093	0.41229	AVRG		0.41256		8.55015	
2,2-Dichloropropane	NE 313511	4078 661036	7438 998442	15188 1330788	33630	134641	LINR	-0.00010	0.66582		0.99984	
cis-1,2-Dichloroethene	NE 0.51032	0.63371 0.51263	0.59203 0.51321	0.54477 0.51241	0.52201	0.52031	AVRG		0.54016		8.10440	
Chloroform	NE 0.83554	1.06707 0.82576	1.04857 0.82364	1.00209 0.81356	0.89839	0.85930	AVRG		0.90821		11.31143	
Bromochloromethane	NE 0.26932	0.31540 0.26813	0.32241 0.27038	0.31702 0.26796	0.28759	0.27231	AVRG		0.28784		8.22049	
1,1,1-Trichloroethane	NE 0.65869	0.86069 0.69751	0.78052 0.70708	0.80161 0.71389	0.68231	0.70420	AVRG		0.73406		8.94326	
1,1-Dichloropropene	NE 0.38290	0.48495 0.40900	0.39369 0.41695	0.45740 0.41345	0.41202	0.40033	AVRG		0.41897		7.68787	
1,2-Dichloroethane	NE 0.40659	0.50041 0.40754	0.44494 0.41027	0.39189 0.38937	0.41620	0.41114	AVRG		0.41982		8.13871	
Carbon Tetrachloride	NE 0.35611	0.48305 0.38889	0.40420 0.39879	0.43692 0.39810	0.38136	0.37897	AVRG		0.40293		9.22126	
Benzene	NE 1.21772	1.43274 1.25333	1.39866 1.25530	1.32317 1.24146	1.21650	1.23632	AVRG		1.28613		6.24204	
Trichloroethene	NE 0.32967	0.38877 0.34715	0.35052 0.35260	0.38059 0.35386	0.34683	0.34151	AVRG		0.35461		5.25026	

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Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Bromodichloromethane	NE 0.42719	0.51371 0.43289	0.53585 0.43326	0.45737 0.42742	0.43564	0.43124	AVRG		0.45495		9.00412	
Methyl Methacrylate	NE 0.38805	0.41027 0.38979	0.40060 0.39545	0.33936 0.39592	0.36954	0.39466	AVRG		0.38707		5.41914	
2-Chloroethylvinyl ether	NE 0.12791	0.10601 0.12501	0.12371 0.12617	0.12156 0.12420	0.12156	0.13185	AVRG		0.12311		5.82358	
1,2-Dichloropropane	NE 0.32863	0.37996 0.33248	0.33362 0.32951	0.33899 0.32343	0.33720	0.33445	AVRG		0.33759		4.90636	
2-Nitropropane	NE 0.13379	0.15541 0.13164	0.12048 0.13757	0.12260 0.13758	0.13928	0.13451	AVRG		0.13476		7.53641	
Dibromomethane	NE 0.20336	0.21555 0.20193	0.23900 0.20257	0.22439 0.19834	0.21012	0.21202	AVRG		0.21192		6.13059	
4-Methyl-2-Pentanone	NE 0.32212	0.30760 0.31184	0.33367 0.30831	0.33070 0.31407	0.33715	0.34142	AVRG		0.32299		4.05223	
cis-1,3-Dichloropropene	NE 0.54967	0.61626 0.56034	0.56522 0.56241	0.54409 0.55560	0.54909	0.54586	AVRG		0.56095		3.93014	
Ethyl Methacrylate	NE 0.31215	0.36463 0.31567	0.39888 0.34496	0.38425 0.35543	0.38260	0.36686	AVRG		0.35838		8.34634	
Toluene	NE 1.40762	1.68448 1.42956	1.50279 1.42094	1.56276 1.40372	1.38239	1.41654	AVRG		1.46787		6.74844	
trans-1,3-Dichloropropene	NE 0.46653	0.47369 0.46660	0.51235 0.47587	0.44699 0.47465	0.44101	0.46631	AVRG		0.46933		4.30530	
2-Hexanone	NE 0.21970	0.17351 0.21503	0.21078 0.21508	0.22169 0.22116	0.22767	0.23709	AVRG		0.21575		8.17380	

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Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
1,1,2-Trichloroethane	NE 0.27350	0.32535 0.26982	0.29705 0.26865	0.30791 0.26434	0.28978	0.27731	AVRG		0.28597		7.23925	
1,3-Dichloropropane	NE 0.56370	0.64851 0.55661	0.60816 0.54916	0.57702 0.54626	0.57725	0.57717	AVRG		0.57821		5.59903	
Dibromochloromethane	NE 0.39440	0.45130 0.39633	0.42505 0.39869	0.41073 0.39759	0.37918	0.39427	AVRG		0.40528		5.26412	
Tetrachloroethene	NE 0.26936	0.33320 0.29091	0.30082 0.30122	0.33399 0.30164	0.29936	0.28615	AVRG		0.30185		6.87487	
1,2-Dibromoethane	NE 0.34611	0.42541 0.34375	0.40286 0.34624	0.36309 0.34502	0.36325	0.35394	AVRG		0.36552		7.95769	
1-Chlorohexane	NE 0.27058	0.31891 0.29451	0.30742 0.30497	0.33602 0.30108	0.30509	0.29798	AVRG		0.30406		5.82966	
Chlorobenzene	NE 0.95733	1.16599 0.96191	1.05258 0.96797	1.02315 0.96078	0.98663	0.96310	AVRG		1.00438		6.86694	
1,1,1,2-Tetrachloroethane	NE 0.35354	0.41610 0.36178	0.40706 0.36400	0.38381 0.36679	0.36058	0.35698	AVRG		0.37452		6.08083	
Ethylbenzene	NE 0.48268	0.58074 0.49951	0.54181 0.51159	0.54627 0.50660	0.49714	0.49091	AVRG		0.51747		6.19763	
m,p-Xylenes	NE 0.61776	0.69775 0.63064	0.60842 0.64151	0.65267 0.63784	0.63943	0.61731	AVRG		0.63815		4.13336	
o-Xylene	NE 0.60231	0.68793 0.61488	0.67177 0.61904	0.68201 0.62117	0.62191	0.60992	AVRG		0.63677		5.28356	
Styrene	NE 1.03828	1.11203 1.04302	1.06411 1.05857	1.03374 1.05409	1.01012	1.02585	AVRG		1.04887		2.76930	

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Bromoform	NE 0.27612	0.32157 0.27809	0.28167 0.28435	0.27167 0.28854	0.26654	0.27431	AVRG		0.28254		5.68771	
Isopropylbenzene	NE 1.45822	1.81086 1.52966	1.55188 1.58026	1.65791 1.57911	1.51756	1.47991	AVRG		1.57393		6.78027	
1,1,2,2-Tetrachloroethane	NE 0.80734	1.01343 0.78646	1.04169 0.78147	0.92927 0.78458	0.90463	0.86384	AVRG		0.87919		11.37969	
1,2,3-Trichloropropane	NE 0.58363	0.71376 0.57749	0.64247 0.56939	0.67579 0.57068	0.64682	0.69393	AVRG		0.63044		8.99664	
trans-1,4-Dichloro-2-butene	NE 0.12201	0.12188 0.12421	0.12097 0.12746	0.10883 0.12711	0.11805	0.12477	AVRG		0.12170		4.66453	
n-Propylbenzene	NE 3.06771	3.81139 3.17546	3.04596 3.24067	3.59078 3.23495	3.20535	3.24000	AVRG		3.29025		7.59470	
Bromobenzene	NE 0.76742	0.93832 0.77052	0.84056 0.78062	0.86168 0.78584	0.80430	0.78514	AVRG		0.81493		6.90326	
1,3,5-Trimethylbenzene	NE 2.24247	2.81070 2.33416	2.39182 2.36164	2.56909 2.35482	2.31883	2.34509	AVRG		2.41429		7.14055	
2-Chlorotoluene	NE 1.91381	2.37538 1.91814	2.31498 1.92712	2.30029 1.92088	2.10665	2.02743	AVRG		2.08941		9.20889	
4-Chlorotoluene	NE 2.20862	2.65754 2.23079	2.26290 2.24646	2.51579 2.24423	2.31216	2.29693	AVRG		2.33060		6.55345	
tert-Butylbenzene	NE 1.82457	2.31433 1.93069	1.96015 1.96746	2.20052 1.98619	1.96704	1.95151	AVRG		2.01139		7.45137	
1,2,4-Trimethylbenzene	NE 2.29724	2.82875 2.35208	2.45476 2.38166	2.51264 2.36035	2.34854	2.38641	AVRG		2.43582		6.58075	

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Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
sec-Butylbenzene	NE 2.53422	3.32113 2.75963	2.78825 2.84355	3.00060 2.83927	2.74806	2.69627	AVRG		2.83678		7.77278	
p-Isopropyltoluene	NE 2.28631	2.76903 2.49189	2.31617 2.52839	2.63680 2.50601	2.40779	2.41022	AVRG		2.48362		6.13282	
1,3-Dichlorobenzene	NE 1.37542	1.65871 1.42022	1.45865 1.43696	1.47401 1.43277	1.39591	1.40674	AVRG		1.45104		5.76143	
1,4-Dichlorobenzene	NE 1.45636	1.76382 1.48340	1.68376 1.47244	1.67915 1.46629	1.47899	1.49407	AVRG		1.55314		7.70609	
Benzyl Chloride	NE 0.83370	0.91627 0.87954	0.80528 0.91703	0.71741 0.90236	0.66903	0.79217	AVRG		0.82587		10.76194	
n-Butylbenzene	NE 2.03494	2.22356 2.21681	1.73994 2.25668	2.12823 2.23717	2.08088	2.11969	AVRG		2.11532		7.57840	
1,2-Dichlorobenzene	NE 1.38424	1.64703 1.40787	1.40433 1.40761	1.51430 1.38773	1.39669	1.40798	AVRG		1.43975		6.03897	
1,2-Dibromo-3-Chloropropane	NE 57289	562 117282	1184 182534	2351 252682	5689	22086	LINR	0.00523	0.14424		0.99979	
1,2,4-Trichlorobenzene	NE 1.00852	1.03201 1.05151	0.95053 1.05450	0.92843 1.05037	0.93678	1.00122	AVRG		1.00154		5.09180	
Hexachlorobutadiene	NE 0.40176	0.45496 0.46265	0.43499 0.48062	0.47567 0.48593	0.43999	0.40952	AVRG		0.44956		6.74761	
Naphthalene	NE 2.30432	2.52164 2.32026	1.98002 2.30178	2.06297 2.29116	2.15195	2.35762	AVRG		2.25463		7.26973	
1,2,3-Trichlorobenzene	NE 0.91409	1.00600 0.94320	0.82982 0.94850	0.91549 0.93747	0.87650	0.92316	AVRG		0.92158		5.30458	

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Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Ethyl Acetate	NE 0.48954	0.55715 0.45908	0.55803 0.45507	0.54813 0.45523	0.52955	0.53528	AVRG		0.50967		8.78368	
Methyl Acrylate	NE 0.42996	0.40444 0.42077	0.36366 0.43604	0.41022 0.42149	0.34054	0.41749	AVRG		0.40496		7.88415	
n-Butanol	NE 116028	934 246332	2023 401679	3179 566916	8163	42441	LINR	1.30216	0.01397		0.99668	
Ethyl Acrylate	NE 533003	4696 1125305	8042 1751972	14275 2344010	39998	144388	LINR	0.04728	1.18250		0.99891	
Cyclohexanone	NE 225144	2832 470281	5123 717000	11759 970775	24566	91911	LINR	-0.25984	0.02790		0.99996	
1,4-Dioxane	0.00564 0.00573	0.00561 0.00606	0.00675 0.00618	0.00622 0.00628	0.00612	0.00602	AVRG		0.00606		5.64821	
n-Hexane	NE 208750	2120 496122	4190 791040	10696 NE	23971	95375	QUAD	-0.00494	2.32300	-0.27911	0.99904	
Freon TF	NE 158688	2188 355059	3869 548562	8361 742502	18080	69934	QUAD	0.00021	2.93242	-0.16774	0.99957	
Methyl Acetate	NE 0.30048	0.31498 0.29215	0.31317 0.29784	0.26234 0.29548	0.27837	0.30868	AVRG		0.29595		5.72758	
Methylcyclohexane	NE 0.70648	0.63728 0.74078	0.62017 0.77029	0.69345 0.75370	0.69642	0.67070	AVRG		0.69881		7.28568	
Isopropyl alcohol	NE 0.02587	0.03027 0.02632	0.03392 0.02742	0.02884 0.02799	0.02722	0.02723	AVRG		0.02834		8.70660	
Amyl alcohol	NE 0.00950	0.00862 0.00970	0.00888 0.01042	0.00895 0.01061	0.00779	0.00937	AVRG		0.00932		9.45742	

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Allyl alcohol	NE 208750	2756 496122	4190 791040	11222 NE	23971	95375	QUAD	-0.12571	46.53375	-5.61944	0.99904	
4-Methyl-2-pentanol	NE 0.06843	0.08471 0.06853	0.09038 0.07488	0.09393 0.07669	0.08353	0.07453	AVRG		0.07951		11.48326	
Tert-butyl alcohol	NE 0.04721	0.05620 0.04618	0.06105 0.04794	0.05158 0.04957	0.05225	0.05012	AVRG		0.05134		9.20429	
Diethyl ether	NE 0.30172	0.33100 0.30182	0.32986 0.30795	0.32506 0.29912	0.31304	0.30966	AVRG		0.31325		3.96667	
1,3-Butadiene	NE 0.38320	0.46769 0.40906	0.43786 0.40982	0.43128 0.40837	0.37829	0.40359	AVRG		0.41435		6.69422	
Cyclohexane	NE 0.55762	0.71131 0.62652	0.61554 0.64990	0.70135 0.66862	0.60145	0.60394	AVRG		0.63736		7.85586	
Tetrahydrofuran	NE 0.07355	0.07531 0.07188	0.07084 0.07229	0.07374 0.07204	0.06939	0.07678	AVRG		0.07287		3.09331	
alpha-Methylstyrene	NE 1.14972	1.32267 1.18100	1.09879 1.20081	1.15655 1.20136	1.15284	1.18162	AVRG		1.18282		5.17506	
Diisopropyl ether	NE 1.44796	1.70619 1.43897	1.46103 1.45103	1.46501 1.40305	1.45974	1.43875	AVRG		1.47464		6.02123	
Dichlorofluoromethane	NE 0.67939	0.84072 0.69933	0.68197 0.70668	0.80782 0.68931	0.69537	0.66668	AVRG		0.71858		8.57276	
Propylene oxide	NE 0.03660	NE 0.03513	0.05463 NE	0.05586 NE	0.04243	0.04133	AVRG		0.04433		20.07401	*
3-Methyl-1-butanol	NE 125842	1270 266062	2518 427718	3850 594725	10033	52635	LINR	0.70832	0.00998		0.99878	

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Butyl acrylate	NE 512904	1843 1042036	6899 1639896	19207 2199388	48821	203667	LINR	0.01097	0.74717		0.99973	
Butyl methacrylate	NE 0.88124	0.82471 0.81967	0.80995 0.82765	0.85924 0.78273	0.86805	0.89548	AVRG		0.84097		4.39110	
Dicyclopentadiene	NE 2.64890	3.29432 2.62708	2.78520 2.65197	2.95593 2.55993	2.95812	2.68736	AVRG		2.79653		8.37421	
1,2,3-Trimethylbenzene	NE 2.35164	2.43219 2.38718	2.33843 2.38987	2.47839 2.31737	2.37922	2.31576	AVRG		2.37667		2.25782	
Ethanol	NE 0.00428	0.00512 0.00425	0.00500 0.00428	0.00594 0.00411	0.00529	0.00474	AVRG		0.00478		12.83125	
tert-Butyl formate	NE 0.38030	0.39279 0.38170	0.45974 0.40182	0.42517 0.42845	0.42867	0.40731	AVRG		0.41177		6.32007	
3,3-Dimethyl-1-butanol	NE 0.03530	0.04577 0.03571	0.04419 0.03842	0.04692 0.03856	0.04271	0.04048	AVRG		0.04089		10.38248	
tert-Amyl methyl ether	NE 1.52534	1.82207 1.52372	1.65634 1.59018	1.67414 1.51346	1.59982	1.52885	AVRG		1.60377		6.30893	
tert-Butyl ethyl ether	NE 1.46020	1.80647 1.45186	1.57123 1.48722	1.56716 1.45836	1.46858	1.46510	AVRG		1.52624		7.51749	
tert-Amyl alcohol	NE 0.03803	0.04668 0.03817	0.04597 0.04018	0.04251 0.04285	0.04287	0.04073	AVRG		0.04200		7.27701	
Epichlorohydrin	NE 0.02666	0.03720 0.02704	0.03387 0.02777	0.03155 0.02772	0.02794	0.02942	AVRG		0.02991		12.04819	
Isoprene	NE 0.11147	0.16436 0.11863	0.19825 0.11449	0.16986 0.11423	0.11813	0.11521	AVRG		0.13607		23.83892	*

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Volatiles by EPA 8260

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Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
n-Amyl acetate	NE 0.63723	0.72007 0.63944	0.73131 0.65455	0.63610 0.65751	0.66393	0.68601	AVRG		0.66957		5.30890	
Isopropyl acetate	NE 0.84694	0.96664 0.83507	0.81115 0.84519	0.82457 0.83945	0.90675	0.89568	AVRG		0.86349		5.76082	
n-Butyl acetate	NE 0.54986	0.46933 0.53460	0.51599 0.54978	0.51302 0.55812	0.55855	0.57035	AVRG		0.53551		5.88026	
Acetaldehyde	NE 50952	NE 103450	NE 152553	4310 210164	6656	20285	LINR	-0.06894	0.02587		0.99963	*
Methyl Amyl Ketone	NE 0.74062	0.65724 0.75253	0.65081 0.77485	0.73145 0.78295	0.75722	0.77834	AVRG		0.73622		6.74574	
Dimethyl Disulfide	NE 0.76213	0.81112 0.75348	0.66792 0.77596	0.70809 0.75246	0.72312	0.71935	AVRG		0.74151		5.65803	
Isobutylene	NE 0.04599	0.05492 0.04507	0.05248 0.05081	0.04904 0.04389	0.04588	0.04218	AVRG		0.04781		8.88937	
2-Ethylhexyl Acrylate	NE 360378	2087 790630	3400 1215186	8837 1627894	25308	120798	LINR	0.02538	0.94922		0.99965	
94 1,2-Dichloroethylene (total)	NE 0.47212	0.59054 0.47798	0.55152 0.47957	0.52022 0.47697	0.48546	0.48413	AVRG		0.50428		8.22663	
95 Xylenes (total)	NE 0.56850	0.64773 0.59032	0.58459 0.60398	0.62199 0.60228	0.58667	0.57654	AVRG		0.59807		4.09592	
30 Dibromofluoromethane	NE 209535	1689 449558	5707 670515	9855 880893	25267	90715	LINR	-0.00695	0.44346		0.99959	
35 1,2-Dichloroethane-d4	NE 238148	3125 480296	6368 717187	11054 943547	26822	99379	LINR	-0.01718	0.47386		0.99978	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS23061812

RunID VOA6_438076

Volatiles by EPA 8260

ICAL Summary Page 12 / 12

Compound	50.00 Level 7 / 0.250 Level 1	100.00 Level 8 / 0.500 Level 2	150.00 Level 9 / 1.00 Level 3	200.00 Level 10 / 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
48 Toluene-d8	NE 1.13265	1.45018 1.22907	1.43208 1.19790	1.30411 1.15568	1.24221	1.23311	AVRG		1.26411		8.86752	
69 4-Bromofluorobenzene	NE 332999	7971 703849	11345 1057321	16470 1427380	37968	139706	LINR	-0.01076	0.48296		0.99989	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS23061812

RunID VOA9_437296

Volatiles by EPA 8260

Compound	50.00 Level 7 / 0.250 Level 1	100.00 Level 8 / 0.500 Level 2	150.00 Level 9 / 1.00 Level 3	200.00 Level 10 / 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Dichlorodifluoromethane	NE 301782	3237 630744	5058 960667	8519 1327832	31172	134998	LINR	0.00160	0.46271		0.99983	
Chloromethane	NE 533277	6740 979734	13219 NE	24280 NE	62455	243997	LINR	-0.02699	0.73429		0.99792	
Propionitrile	NE 0.06910	0.08304 0.07191	0.07790 0.06959	0.06567 0.06755	0.07543	0.07008	AVRG		0.07225		7.66936	
Vinyl Chloride	NE 0.54961	0.53164 0.55242	0.43717 0.54597	0.48902 0.54834	0.55204	0.55364	AVRG		0.52887		7.56687	
Bromomethane	NE 189385	2378 362834	5133 572508	9237 739966	23995	85360	LINR	-0.03678	0.26230		0.99829	
Chloroethane	NE 0.34874	0.38400 0.34887	0.39288 0.34148	0.33413 0.33605	0.35705	0.36318	AVRG		0.35626		5.77503	
Trichlorofluoromethane	NE 0.60336	0.65250 0.63856	0.50831 0.62802	0.50964 0.62488	0.63485	0.66665	AVRG		0.60742		9.63343	
Acrolein	NE 0.02565	0.03356 0.02534	0.02950 0.02449	0.02511 0.02533	0.02566	0.02421	AVRG		0.02654		11.47974	
Acetone	NE 245967	8112 467276	12344 669020	18337 NE	31915	105410	LINR	-0.11414	0.16245		0.99760	
1,1-Dichloroethene	NE 0.37538	0.43475 0.38325	0.34844 0.38119	0.33936 0.38464	0.38705	0.38169	AVRG		0.37953		7.06417	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS23061812

RunID VOA9_437296

Volatiles by EPA 8260

ICAL Summary Page 2 / 11

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Isobutyl Alcohol	NE 0.06592	0.06000 0.06937	0.06647 0.06652	0.06001 0.06907	0.06288	0.06445	AVRG		0.06496		5.32316	
Acetonitrile	NE 0.05262	0.06019 0.05598	0.05501 0.05486	0.05232 0.05223	0.05374	0.05025	AVRG		0.05413		5.29738	
Allyl Chloride	NE 1.23994	1.54447 1.31147	1.31408 1.28770	1.21739 1.22743	1.32627	1.21434	AVRG		1.29812		7.89105	
Iodomethane	NE 311144	1872 901104	3593 1654094	5244 2389174	10875	69713	QUAD	0.19719	3.17029	-0.25959	0.99395	*
Acrylonitrile	NE 0.17643	0.19222 0.19265	0.17779 0.18699	0.18194 0.18155	0.19969	0.17956	AVRG		0.18542		4.28504	
Methylene Chloride	NE 313459	6638 614571	9867 934598	14226 1286266	34262	133454	LINR	-0.02055	0.44680		0.99989	
Methyl tert-butyl ether	NE 1.11011	1.34489 1.18230	1.22763 1.16687	1.06262 1.13583	1.16892	1.07548	AVRG		1.16385		7.37549	
Carbon Disulfide	NE 1.05257	0.97637 1.06234	0.93978 1.05033	0.91298 1.04865	1.04258	1.04592	AVRG		1.01461		5.54329	
trans-1,2-Dichloroethene	NE 0.42568	0.43966 0.42424	0.36838 0.41068	0.38985 0.41906	0.41680	0.42038	AVRG		0.41275		5.16490	
Vinyl Acetate	NE 1.24787	1.16903 1.32894	1.28605 1.32075	1.14428 1.28290	1.31826	1.22557	AVRG		1.25818		5.33224	
1,1-Dichloroethane	NE 0.75452	0.91579 0.74633	0.85153 0.73811	0.77473 0.73300	0.79838	0.74713	AVRG		0.78439		7.88122	
Chloroprene	NE 0.15370	0.18753 0.16003	0.14913 0.16411	0.13564 0.16977	0.14899	0.16635	AVRG		0.15947		9.35578	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS23061812

RunID VOA9_437296

Volatiles by EPA 8260

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
2-Butanone	NE 0.21032	0.26865 0.21900	0.27005 0.21311	0.22221 0.20708	0.22579	0.21550	AVRG		0.22797		10.59636	
Methacrylonitrile	NE 0.29063	0.32297 0.31155	0.29216 0.31218	0.25772 0.29964	0.27607	0.29576	AVRG		0.29541		6.71428	
2,2-Dichloropropane	NE 344673	3685 699035	6247 1080274	12294 1505657	33762	139835	LINR	0.00797	0.52278		0.99995	
cis-1,2-Dichloroethene	NE 0.48847	0.54176 0.48782	0.49058 0.48487	0.46721 0.48248	0.51503	0.48586	AVRG		0.49378		4.41592	
Chloroform	NE 0.81885	0.87650 0.81161	0.79076 0.79868	0.79799 0.79042	0.85300	0.80968	AVRG		0.81639		3.62615	
Bromochloromethane	NE 0.26708	0.31315 0.26410	0.30614 0.26302	0.26452 0.25295	0.28615	0.26876	AVRG		0.27621		7.56831	
1,1,1-Trichloroethane	NE 0.63238	0.65994 0.65446	0.57497 0.64619	0.52644 0.65564	0.61086	0.63915	AVRG		0.62223		7.20510	
1,1-Dichloropropene	NE 0.37173	0.32259 0.39025	0.38290 0.38140	0.31292 0.38981	0.36218	0.38416	AVRG		0.36644		7.93028	
1,2-Dichloroethane	NE 0.42081	0.46850 0.42485	0.42052 0.41425	0.45938 0.40606	0.45322	0.42725	AVRG		0.43276		5.06646	
Carbon Tetrachloride	NE 0.34607	0.35476 0.37126	0.28321 0.36664	0.26732 0.37542	0.31231	0.35238	AVRG		0.33660		11.75294	
Benzene	NE 1.23100	1.18679 1.22379	1.09401 1.20222	1.22033 1.18837	1.26301	1.23391	AVRG		1.20483		3.98055	
Trichloroethene	NE 0.34006	0.37553 0.34777	0.35201 0.34410	0.32048 0.34873	0.36729	0.34693	AVRG		0.34921		4.49432	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS23061812

RunID VOA9_437296

Volatiles by EPA 8260

ICAL Summary Page 4 / 11

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Bromodichloromethane	NE 0.38236	0.38289 0.40428	0.33360 0.40608	0.32980 0.40603	0.37143	0.36599	AVRG		0.37583		7.72711	
Methyl Methacrylate	NE 0.43942	0.45886 0.46989	0.38280 0.46614	0.37522 0.45591	0.40434	0.41660	AVRG		0.42991		8.44989	
2-Chloroethylvinyl ether	NE 0.00884	0.00852 0.00999	0.00946 NE	0.00945 NE	0.00895	0.00842	AVRG		0.00909		6.25191	
1,2-Dichloropropane	NE 0.32122	NE 0.32222	0.32786 0.32000	0.31466 0.31897	0.32797	0.32063	AVRG		0.32169		1.38453	*
2-Nitropropane	NE 0.11432	0.20680 0.13484	50.26056 0.13886	40.89437 0.13916	0.11155	0.10087	AVRG		10.23348		197	*
Dibromomethane	NE 0.19996	0.21005 0.20667	0.21181 0.20373	0.20209 0.20258	0.21295	0.20004	AVRG		0.20554		2.43958	
4-Methyl-2-Pentanone	NE 0.35703	0.31052 0.36713	0.34114 0.37263	0.41679 0.36509	0.37151	0.37510	AVRG		0.36411		7.81829	
cis-1,3-Dichloropropene	NE 477156	4533 1015887	6985 1649908	12842 2272308	37734	176588	LINR	0.03823	0.52354		0.99932	
Ethyl Methacrylate	NE 0.43593	0.46860 0.47447	0.39717 0.47560	0.34291 0.47794	0.45495	0.41708	AVRG		0.43830		10.42832	
Toluene	NE 1.37452	1.46131 1.35611	1.30389 1.33752	1.24034 1.30792	1.38024	1.44328	AVRG		1.35612		5.10785	
trans-1,3-Dichloropropene	NE 395477	4073 857257	5962 1382903	12660 1913130	31811	143978	LINR	0.04043	0.44043		0.99920	
2-Hexanone	NE 0.23737	0.21896 0.24894	0.27173 0.24680	0.31735 0.24494	0.24794	0.24808	AVRG		0.25357		10.85593	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS23061812

RunID VOA9_437296

Volatiles by EPA 8260

ICAL Summary Page 5 / 11

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
1,1,2-Trichloroethane	NE 0.26145	0.27781 0.26759	0.33823 0.26884	0.29394 0.26174	0.29026	0.27967	AVRG		0.28217		8.50628	
1,3-Dichloropropane	NE 0.56388	0.60411 0.56350	0.57145 0.56462	0.58138 0.54844	0.60045	0.59066	AVRG		0.57650		3.26997	
Dibromochloromethane	NE 0.35269	0.33281 0.37245	0.26753 0.38159	0.28317 0.37861	0.30864	0.33570	AVRG		0.33480		12.37215	
Tetrachloroethene	NE 0.31218	0.33596 0.32329	0.35937 0.32063	0.31268 0.32848	0.33355	0.34752	AVRG		0.33041		4.74735	
1,2-Dibromoethane	NE 0.32995	0.39291 0.33734	0.36483 0.33751	0.35335 0.32947	0.34243	0.34494	AVRG		0.34808		5.80098	
1-Chlorohexane	NE 0.23045	0.28084 0.25935	0.24384 0.26305	0.24810 0.27442	0.24355	0.26710	AVRG		0.25674		6.39033	
Chlorobenzene	NE 0.93816	0.96090 0.94626	1.02474 0.94168	0.99652 0.92552	1.00286	0.97411	AVRG		0.96786		3.50306	
1,1,1,2-Tetrachloroethane	NE 0.33475	0.33813 0.34379	0.30312 0.35090	0.32230 0.35020	0.31656	0.33414	AVRG		0.33265		4.80000	
Ethylbenzene	NE 0.45349	0.44932 0.47695	0.42798 0.48030	0.38496 0.47946	0.43441	0.46740	AVRG		0.45047		6.92422	
m,p-Xylenes	NE 0.56107	0.49705 0.59332	0.47095 0.59550	0.46613 0.59257	0.47186	0.54822	AVRG		0.53296		10.58600	
o-Xylene	NE 0.54530	0.51375 0.57414	0.46105 0.58153	0.45548 0.57622	0.49419	0.53695	AVRG		0.52651		9.19888	
Styrene	NE 0.89449	0.81868 0.95766	0.66693 0.96825	0.74091 0.94500	0.69822	0.82991	AVRG		0.83556		13.68101	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS23061812

RunID VOA9_437296

Volatiles by EPA 8260

ICAL Summary Page 6 / 11

Compound	50.00 Level 7 / 0.250 Level 1	100.00 Level 8 / 0.500 Level 2	150.00 Level 9 / 1.00 Level 3	200.00 Level 10 / 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Bromoform	NE 0.23260	0.19493 0.26095	0.19245 0.26822	0.20896 0.26444	0.19978	0.21157	AVRG		0.22599		13.81919	
Isopropylbenzene	NE 1.29966	1.14173 1.39540	1.13317 1.38723	1.09443 1.38856	1.19733	1.34411	AVRG		1.26463		9.72168	
1,1,2,2-Tetrachloroethane	NE 0.86517	0.94934 0.88446	1.02444 0.87983	1.13699 0.85285	0.96171	0.90982	AVRG		0.94051		9.75227	
1,2,3-Trichloropropane	NE 0.78271	0.89588 0.82369	0.76851 0.84037	0.91659 0.83039	0.81959	0.76888	AVRG		0.82740		6.30706	
trans-1,4-Dichloro-2-butene	NE 0.05433	0.05261 0.06324	0.05796 0.06690	0.05335 0.06611	0.05527	0.04837	AVRG		0.05757		11.24480	*
n-Propylbenzene	NE 2.66761	2.34893 2.93371	2.29516 2.98954	2.26496 3.06453	2.35462	2.68484	AVRG		2.62266		12.16608	
Bromobenzene	NE 0.80219	0.83256 0.82248	0.87296 0.83564	0.91857 0.83486	0.83236	0.84108	AVRG		0.84363		3.98394	
1,3,5-Trimethylbenzene	NE 1.72613	1.71333 1.88842	1.73215 1.96460	1.69625 2.06354	1.68766	1.72132	AVRG		1.79927		7.64842	
2-Chlorotoluene	NE 1.83116	1.65439 1.87957	1.84359 1.87542	1.86405 1.87375	1.83620	1.93464	AVRG		1.84364		4.19843	
4-Chlorotoluene	NE 2.03659	1.80601 2.10132	1.92642 2.11273	2.12066 2.13399	2.01548	2.11322	AVRG		2.04071		5.42387	
tert-Butylbenzene	NE 1.72651	1.66206 1.87463	1.63607 1.89391	1.58431 1.94965	1.70142	1.87604	AVRG		1.76718		7.49680	
1,2,4-Trimethylbenzene	NE 1.70257	1.87283 1.83519	1.98426 1.91537	2.00872 2.01697	1.83192	1.77568	AVRG		1.88261		5.76159	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS23061812

RunID VOA9_437296

Volatiles by EPA 8260

ICAL Summary Page 7 / 11

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
sec-Butylbenzene	NE 2.18438	2.00057 2.46235	2.11593 2.51457	1.90597 2.60373	2.05445	2.32792	AVRG		2.24110		11.00553	
p-Isopropyltoluene	NE 1.76859	1.74598 2.03397	1.77727 2.13513	1.70832 2.25284	1.70523	1.77034	AVRG		1.87752		10.99191	
1,3-Dichlorobenzene	NE 1.34174	1.44494 1.39069	1.46902 1.40351	1.55334 1.41569	1.44971	1.42715	AVRG		1.43286		4.09348	
1,4-Dichlorobenzene	NE 1.40239	1.54178 1.43640	1.71276 1.45286	1.69155 1.45678	1.56931	1.48576	AVRG		1.52773		7.29827	
Benzyl Chloride	NE 234906	1867 573982	5481 988530	11203 1346925	22092	85763	LINR	0.06934	0.32121		0.99572	
n-Butylbenzene	NE 1.46534	1.58034 1.66824	1.52199 1.76126	1.45737 1.86929	1.51798	1.62397	AVRG		1.60731		8.65865	
1,2-Dichlorobenzene	NE 1.34667	1.37505 1.37717	1.58056 1.39037	1.62196 1.39656	1.41014	1.43132	AVRG		1.43664		6.73798	
1,2-Dibromo-3-Chloropropane	NE 0.13055	0.12905 0.14193	0.13125 0.15019	0.15055 0.15436	0.12496	0.12235	AVRG		0.13724		8.84952	
1,2,4-Trichlorobenzene	NE 0.92607	0.99711 0.97797	1.02603 1.01256	1.05277 1.03962	0.91403	0.94731	AVRG		0.98816		5.06669	
Hexachlorobutadiene	NE 0.34400	0.41409 0.38848	0.47350 0.41057	0.36363 0.43096	0.36197	0.40436	AVRG		0.39906		9.99191	
Naphthalene	NE 2.32218	2.00604 2.38330	2.45479 2.41879	2.35836 2.39671	2.05295	2.26528	AVRG		2.29538		7.00317	
1,2,3-Trichlorobenzene	NE 0.91575	0.89610 0.95078	1.01723 0.97037	1.09261 0.98955	0.91438	0.94752	AVRG		0.96603		6.32619	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS23061812

RunID VOA9_437296

Volatiles by EPA 8260

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Ethyl Acetate	NE 0.40659	0.56275 0.43291	0.47646 0.42120	0.45270 0.40047	0.44438	0.42507	AVRG		0.44695		11.03167	
Methyl Acrylate	NE 0.51803	0.64029 0.55501	0.52884 0.53794	0.45224 0.52785	0.49568	0.50330	AVRG		0.52880		9.67195	
n-Butanol	NE 0.01307	0.01415 0.01509	2.08859 0.01514	4.21587 0.01494	0.01247	0.01208	AVRG		0.71127		208	*
Cyclohexanone	NE 0.02875	0.03990 0.02946	0.03613 0.02809	0.02961 0.02880	0.03016	0.02808	AVRG		0.03100		13.36896	
1,4-Dioxane	0.02235 0.00659	0.01166 0.00691	0.01127 0.00671	0.01101 0.00625	0.00960	0.00693	AVRG		0.00993		49.04531	*
n-Hexane	NE 256401	2983 595793	4787 933406	7179 1358253	28289	131033	QUAD	0.00210	2.46538	-0.18460	0.99921	
Freon TF	NE 0.32170	0.35587 0.35856	0.27604 0.35800	0.26719 0.36926	0.34986	0.36574	AVRG		0.33580		11.58349	
Methyl Acetate	NE 0.37668	0.50232 0.40100	0.47241 0.38762	0.46924 0.37810	0.40980	0.39186	AVRG		0.42100		11.22802	
Methylcyclohexane	NE 0.63877	0.71717 0.77007	0.66486 0.77041	0.57666 0.75903	0.69680	0.64861	AVRG		0.69360		9.68871	
Isopropyl alcohol	NE 0.02926	0.03524 0.03162	0.03413 0.03087	0.04209 0.02976	0.03152	0.02969	AVRG		0.03269		12.43532	
Amyl alcohol	NE 0.00986	0.01197 0.01105	1.92102 0.01113	3.42130 0.01101	0.00863	0.00951	AVRG		0.60172		205	*
Allyl alcohol	NE 256401	2691 595793	4787 933406	7179 1358253	27611	131033	QUAD	0.05728	49.27793	-3.68010	0.99921	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS23061812

RunID VOA9_437296

Volatiles by EPA 8260

ICAL Summary Page 9 / 11

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
4-Methyl-2-pentanol	NE 0.06687	0.10161 0.07627	0.07347 0.07449	0.06147 0.07390	0.06954	0.07154	AVRG		0.07435		15.04325	
Tert-butyl alcohol	NE 592187	6757 1263261	16016 1948328	34487 2615413	66425	255911	LINR	-0.09917	0.04597		0.99942	
Diethyl ether	NE 0.32639	0.41853 0.34643	0.29113 0.34449	0.31214 0.33721	0.34912	0.31512	AVRG		0.33784		10.59316	
1,3-Butadiene	NE 0.48722	0.44026 0.50601	0.41436 0.49354	0.42154 0.49579	0.49134	0.51162	AVRG		0.47352		7.90782	
Cyclohexane	NE 384146	4345 872566	7781 1346053	8877 1948136	37840	190495	QUAD	0.00384	1.66261	-0.06851	0.99933	
Tetrahydrofuran	NE 124830	1846 246154	3378 364883	4068 488623	13490	48081	LINR	-0.04721	0.08627		0.99868	
alpha-Methylstyrene	NE 398013	3201 939505	6428 1521945	14955 2162870	33946	141914	LINR	0.07068	1.00922		0.99634	
Diisopropyl ether	NE 1.33854	1.62723 1.40873	1.35167 1.38423	1.35708 1.35239	1.43176	1.29604	AVRG		1.39419		6.88405	
Dichlorofluoromethane	NE 0.68369	1.14419 0.72055	154 0.71841	259 0.70435	0.74302	0.65918	AVRG		46.48926		203	*
Butyl acrylate	NE 0.56545	0.65141 0.62687	0.57943 0.64178	0.50180 0.63283	0.56456	0.55884	AVRG		0.59144		8.39860	
Dicyclopentadiene	NE 2.17722	2.29788 2.45924	3.10552 2.50496	2.30282 2.43925	2.47288	2.19129	AVRG		2.43901		11.40017	
1,2,3-Trimethylbenzene	NE 1.72212	2.16993 1.82789	2.16879 1.86297	1.86768 1.91009	2.05701	1.71103	AVRG		1.92195		9.02117	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS23061812

RunID VOA9_437296

Volatiles by EPA 8260

ICAL Summary Page 10 / 11

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Ethanol	NE 83818	929 175232	2663 261491	4910 342926	9968	33180	LINR	-0.45661	0.00610		0.99807	
tert-Butyl formate	NE 0.35469	NE 0.39711	70.88590 0.40728	111 0.40312	0.37084	0.36100	AVRG		23.05896		188	*
3,3-Dimethyl-1-butanol	NE 0.03321	0.12053 0.03570	15.41396 0.03539	18.45449 0.03515	0.03977	0.03772	AVRG		3.80066		197	*
tert-Amyl methyl ether	NE 1.27072	2.14082 1.66952	303 1.69353	515 1.68414	1.51794	1.20622	AVRG		92.03003		203	*
tert-Butyl ethyl ether	NE 1.16135	1.66370 1.24096	249 1.23931	427 1.22143	1.20218	1.12101	AVRG		76.03857		204	*
tert-Amyl alcohol	NE 0.03547	0.04913 0.03971	7.08859 0.04073	11.12917 0.04031	0.03708	0.03610	AVRG		2.05514		201	*
Epichlorohydrin	NE 17348	NE 42530	230 78090	854 120896	2028	5384	QUAD	0.19276	210	-620	0.99786	*
Isoprene	NE 0.12271	0.17622 0.12050	24.46517 0.11801	42.70055 0.13763	0.11208	0.12455	AVRG		7.56416		204	*
n-Amyl acetate	NE 0.55364	NE 0.58593	NE 0.59354	211 0.58358	0.63545	0.57662	AVRG		30.68893		260	*
Isopropyl acetate	NE 0.98722	1.34246 1.04945	418 1.03674	509 1.02205	1.01129	0.99086	AVRG		104		198	*
n-Butyl acetate	NE 0.55036	0.55703 0.58437	0.53651 0.60799	0.60175 0.59915	0.53866	0.54802	AVRG		0.56932		5.06190	
Acetaldehyde	NE 0.06756	NE 0.07481	NE 0.07268	NE 0.07068	0.05587	0.07216	AVRG		0.06896		9.93199	*

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS23061812

RunID VOA9_437296

Volatiles by EPA 8260

ICAL Summary Page 11 / 11

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Methyl Amyl Ketone	NE 0.66113	1.57193 0.70193	232 0.68889	332 0.68782	0.72364	0.69666	AVRG		63.26693		200	*
Dimethyl Disulfide	NE 275143	1341 843448	2841 1542342	4598 2303909	15263	75368	QUAD	0.09069	2.54687	-0.35667	0.99436	
2-Ethylhexyl Acrylate	NE 214955	2309 534360	4963 905239	8201 1300346	19373	70007	QUAD	0.03475	2.11188	-0.20750	0.99843	
94 1,2-Dichloroethylene (total)	NE 0.45707	0.49071 0.45603	0.42948 0.44777	0.42853 0.45077	0.46591	0.45312	AVRG		0.45327		4.12637	
95 Xylenes (total)	NE 0.53378	0.46723 0.57391	0.43600 0.57061	0.43592 0.57101	0.45257	0.49964	AVRG		0.50452		11.72066	
30 Dibromofluoromethane	NE 271537	3644 587291	5853 869167	10602 1189943	30229	119153	LINR	-0.00632	0.41704		0.99929	
35 1,2-Dichloroethane-d4	NE 303470	3795 630129	6027 944002	11855 1273587	34153	129564	LINR	-0.01366	0.44800		0.99930	
48 Toluene-d8	NE 1.07251	1.56295 1.11768	1.00002 1.06933	1.01159 1.04518	1.14526	1.16028	AVRG		1.13164		15.10726	
69 4-Bromofluorobenzene	NE 425877	5007 923899	8608 1355424	16728 1832443	49215	178335	LINR	-0.01813	0.43793		0.99886	

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Form 6I

Initial Calibration Verification (ICV)

Volatiles by EPA 8260

Workorder

HS23061812

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/07/2023

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

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder
HS23061812

RunID
VOA6_438076

Volatiles by EPA 8260

Sample Matrix LIQUID
Lab Smp Id ICV
Level LOW
Fraction VOA
Client Smp ID ICV
Operator PC

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.00	46.87	93.74	80-120	
1,1,1-Trichloroethane	50.00	44.94	89.89	80-120	
1,1,2,2-Tetrachloroethane	50.00	46.24	92.49	80-120	
Freon TF	50.00	49.79	99.59	80-120	
Methyl acetate	50.00	48.69	97.38	80-120	
Cyclohexane	50.00	46.80	93.62	80-120	
Methylcyclohexane	50.00	53.51	107.04	80-120	
Carbon Disulfide	100.00	90.58	90.58	80-120	
2-Hexanone	100.00	98.60	98.60	80-120	
1,1,2-Trichloroethane	50.00	47.08	94.17	80-120	
1,1-Dichloroethane	50.00	46.17	92.34	80-120	
1,1-Dichloroethene	50.00	44.21	88.43	80-120	
1,1-Dichloropropene	50.00	46.82	93.64	80-120	
1,2,3-Trichlorobenzene	50.00	50.83	101.67	80-120	
1,2,3-Trichloropropane	50.00	47.13	94.28	80-120	
1,2,4-Trichlorobenzene	50.00	50.59	101.19	80-120	
1,2,4-Trimethylbenzene	50.00	46.23	92.47	80-120	
1,2-Dibromo-3-Chloropropane	50.00	50.38	100.77	80-120	
1,2-Dibromoethane	50.00	47.45	94.91	80-120	
Acrolein	100.00	103.93	103.93	80-120	
Acrylonitrile	100.00	94.07	94.08	80-120	
1,2-Dichlorobenzene	50.00	47.36	94.73	80-120	
1,2-Dichloroethane	50.00	49.10	98.20	80-120	
1,2-Dichloropropane	50.00	48.45	96.90	80-120	
1,3,5-Trimethylbenzene	50.00	46.12	92.25	80-120	
1,3-Dichlorobenzene	50.00	47.31	94.64	80-120	
1,3-Dichloropropane	50.00	48.46	96.92	80-120	
1,4-Dichlorobenzene	50.00	46.35	92.71	80-120	
1-Chlorohexane	50.00	45.55	91.10	80-120	
2,2-Dichloropropane	50.00	49.24	98.49	80-120	
2-Butanone	100.00	102.39	102.40	80-120	
2-Chloroethylvinyl ether	100.00	102.53	102.53	80-120	
2-Chlorotoluene	50.00	45.20	90.40	80-120	
4-Chlorotoluene	50.00	46.76	93.53	80-120	

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS23061812

RunID VOA6_438076

Volatiles by EPA 8260

Sample Matrix LIQUID
Lab Smp Id ICV
Level LOW
Fraction VOA
Client Smp ID ICV
Operator PC

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.00	46.63	93.27	80-120	
4-Methyl-2-Pentanone	100.00	97.98	97.98	80-120	
Acetone	100.00	87.51	87.52	80-120	
Acetonitrile	500.00	494.01	98.80	80-120	
Allyl Chloride	50.00	49.12	98.25	80-120	
Benzene	50.00	47.05	94.11	80-120	
Bromobenzene	50.00	47.80	95.61	80-120	
Bromochloromethane	50.00	44.92	89.85	80-120	
Bromodichloromethane	50.00	46.41	92.84	80-120	
Bromoform	50.00	48.28	96.57	80-120	
Bromomethane	50.00	46.93	93.86	80-120	
Carbon Tetrachloride	50.00	46.16	92.34	80-120	
Chlorobenzene	50.00	46.73	93.47	80-120	
Chloroethane	50.00	46.13	92.28	80-120	
Chloroform	50.00	44.31	88.62	80-120	
Chloromethane	50.00	47.99	96.00	80-120	
Chloroprene	50.00	44.77	89.56	80-120	
cis-1,2-Dichloroethene	50.00	46.34	92.69	80-120	
cis-1,3-Dichloropropene	50.00	49.32	98.65	80-120	
Dibromochloromethane	50.00	48.01	96.02	80-120	
Dibromomethane	50.00	48.22	96.45	80-120	
Dichlorodifluoromethane	50.00	48.88	97.77	80-120	
Ethylbenzene	50.00	45.79	91.59	80-120	
Ethyl Methacrylate	50.00	49.51	99.03	80-120	
Iodomethane	100.00	92.19	92.19	80-120	
Isobutyl Alcohol	1000.00	980.04	98.00	70-130	
Propionitrile	500.00	498.23	99.65	70-130	
Hexachlorobutadiene	50.00	49.69	99.39	80-120	
Isopropylbenzene	50.00	45.67	91.36	80-120	
m,p-Xylenes	100.00	95.16	95.17	80-120	
Methyl tert-butyl ether	50.00	47.37	94.75	80-120	
Methylene Chloride	50.00	43.72	87.45	80-120	
Methacrylonitrile	50.00	48.78	97.56	80-120	
Methyl Methacrylate	50.00	49.45	98.90	80-120	

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS23061812

RunID VOA6_438076

Volatiles by EPA 8260

Sample Matrix LIQUID
Lab Smp Id ICV
Level LOW
Fraction VOA
Client Smp ID ICV
Operator PC

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.00	48.74	97.49	80-120	
n-Propylbenzene	50.00	46.49	92.99	80-120	
Naphthalene	50.00	52.43	104.86	80-120	
o-Xylene	50.00	46.20	92.40	80-120	
sec-Butylbenzene	50.00	45.26	90.53	80-120	
Styrene	50.00	48.54	97.09	80-120	
tert-Butylbenzene	50.00	45.20	90.41	80-120	
Tetrachloroethene	50.00	45.65	91.32	80-120	
Toluene	50.00	47.38	94.76	80-120	
trans-1,2-Dichloroethene	50.00	45.23	90.46	80-120	
trans-1,3-Dichloropropene	50.00	49.63	99.28	80-120	
trans-1,4-Dichloro-2-butene	50.00	51.27	102.56	80-120	
Trichloroethene	50.00	46.73	93.48	80-120	
Trichlorofluoromethane	50.00	46.34	92.69	80-120	
Vinyl Acetate	100.00	103.98	103.98	80-120	
Vinyl Chloride	50.00	45.89	91.79	80-120	
1,2-Dichloroethylene (total)	100.00	91.57	91.58	80-120	
Xylenes (total)	150.00	141.36	94.25	80-120	
1,4-Dioxane	1000.00	977.76	97.78	80-120	
Dibromofluoromethane	50.00	50.87	101.75	71-125	
1,2-Dichloroethane-d4	50.00	50.05	100.12	70-125	
Toluene-d8	50.00	48.61	97.23	75-125	

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder
HS23061812

RunID
VOA9_437296

Volatiles by EPA 8260

Sample Matrix LIQUID
Lab Smp Id ICV
Level LOW
Fraction VOA
Client Smp ID ICV
Operator PC

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.00	49.07	98.15	80-120	
1,1,1-Trichloroethane	50.00	44.11	88.23	80-120	
1,1,2,2-Tetrachloroethane	50.00	44.15	88.32	80-120	
Freon TF	50.00	42.50	85.01	80-120	
Methyl Acetate	50.00	40.70	81.42	80-120	
Cyclohexane	50.00	42.07	84.15	80-120	
Methylcyclohexane	50.00	46.30	92.61	80-120	
Carbon Disulfide	100.00	93.13	93.14	80-120	
2-Hexanone	100.00	92.61	92.61	80-120	
1,1,2-Trichloroethane	50.00	45.65	91.32	80-120	
1,1-Dichloroethane	50.00	41.14	82.28	80-120	
1,1-Dichloroethene	50.00	43.45	86.92	80-120	
1,1-Dichloropropene	50.00	45.66	91.33	80-120	
1,2,3-Trichlorobenzene	50.00	47.31	94.63	80-120	
1,2,3-Trichloropropane	50.00	45.92	91.85	80-120	
1,2,4-Trichlorobenzene	50.00	47.57	95.14	80-120	
1,2,4-Trimethylbenzene	50.00	47.79	95.60	80-120	
1,2-Dibromo-3-Chloropropane	50.00	47.57	95.14	80-120	
1,2-Dibromoethane	50.00	45.60	91.22	80-120	
Acrolein	100.00	87.41	87.42	80-120	
Acrylonitrile	100.00	91.25	91.25	80-120	
1,2-Dichlorobenzene	50.00	45.26	90.54	80-120	
1,2-Dichloroethane	50.00	44.18	88.38	80-120	
1,2-Dichloropropane	50.00	45.23	90.47	80-120	
1,3,5-Trimethylbenzene	50.00	48.21	96.43	80-120	
1,3-Dichlorobenzene	50.00	46.22	92.45	80-120	
1,3-Dichloropropane	50.00	47.41	94.82	80-120	
1,4-Dichlorobenzene	50.00	44.52	89.05	80-120	
1-Chlorohexane	50.00	40.85	81.71	80-120	
2,2-Dichloropropane	50.00	45.93	91.87	80-120	
2-Butanone	100.00	87.11	87.11	80-120	
2-Chloroethylvinyl ether	100.00	82.24	82.24	80-120	
2-Chlorotoluene	50.00	46.75	93.51	80-120	
4-Chlorotoluene	50.00	48.40	96.80	80-120	

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS23061812

RunID VOA9_437296

Volatiles by EPA 8260

Sample Matrix LIQUID
Lab Smp Id ICV
Level LOW
Fraction VOA
Client Smp ID ICV
Operator PC

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.00	48.52	97.04	80-120	
4-Methyl-2-Pentanone	100.00	97.72	97.73	80-120	
Acetone	100.00	95.43	95.43	80-120	
Acetonitrile	500.00	437.35	87.47	80-120	
Allyl Chloride	50.00	43.46	86.94	80-120	
Benzene	50.00	46.31	92.63	80-120	
Bromobenzene	50.00	45.71	91.42	80-120	
Bromochloromethane	50.00	44.93	89.87	80-120	
Bromodichloromethane	50.00	47.72	95.44	80-120	
Bromoform	50.00	51.02	102.05	80-120	
Bromomethane	50.00	55.03	110.08	80-120	
Carbon Tetrachloride	50.00	44.38	88.77	80-120	
Chlorobenzene	50.00	45.99	91.98	80-120	
Chloroethane	50.00	43.12	86.25	80-120	
Chloroform	50.00	43.97	87.95	80-120	
Chloromethane	50.00	40.39	80.80	80-120	
Chloroprene	50.00	42.86	85.72	80-120	
cis-1,2-Dichloroethene	50.00	44.27	88.55	80-120	
cis-1,3-Dichloropropene	50.00	44.95	89.92	80-120	
Dibromochloromethane	50.00	51.79	103.58	80-120	
Dibromomethane	50.00	45.22	90.46	80-120	
Dichlorodifluoromethane	50.00	43.44	86.88	80-120	
Ethylbenzene	50.00	48.34	96.69	80-120	
Ethyl Methacrylate	50.00	48.75	97.51	80-120	
Iodomethane	100.00	85.89	85.90	80-120	
Isobutyl Alcohol	1000.00	1063.31	106.33	70-130	
Propionitrile	500.00	447.35	89.47	70-130	
Hexachlorobutadiene	50.00	42.50	85.02	80-120	
Isopropylbenzene	50.00	48.91	97.84	80-120	
m,p-Xylenes	100.00	101.18	101.18	80-120	
Methyl tert-butyl ether	50.00	45.15	90.31	80-120	
Methylene Chloride	50.00	45.61	91.23	80-120	
Methacrylonitrile	50.00	47.68	95.38	80-120	
Methyl Methacrylate	50.00	47.58	95.17	80-120	

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS23061812

RunID VOA9_437296

Volatiles by EPA 8260

Sample Matrix LIQUID
Lab Smp Id ICV
Level LOW
Fraction VOA
Client Smp ID ICV
Operator PC

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.00	45.82	91.65	80-120	
n-Propylbenzene	50.00	49.51	99.02	80-120	
Naphthalene	50.00	51.00	102.01	80-120	
o-Xylene	50.00	50.13	100.28	80-120	
sec-Butylbenzene	50.00	46.73	93.47	80-120	
Styrene	50.00	52.92	105.84	80-120	
tert-Butylbenzene	50.00	46.65	93.31	80-120	
Tetrachloroethene	50.00	45.52	91.06	80-120	
Toluene	50.00	48.10	96.21	80-120	
trans-1,2-Dichloroethene	50.00	45.42	90.85	80-120	
trans-1,3-Dichloropropene	50.00	44.23	88.46	80-120	
trans-1,4-Dichloro-2-butene	50.00	54.24	108.49	80-120	
Trichloroethene	50.00	44.64	89.28	80-120	
Trichlorofluoromethane	50.00	43.95	87.91	80-120	
Vinyl Acetate	100.00	93.22	93.22	80-120	
Vinyl Chloride	50.00	44.59	89.20	80-120	
1,2-Dichloroethylene (total)	100.00	89.70	89.70	80-120	
Xylenes (total)	150.00	151.32	100.88	80-120	
1,4-Dioxane	1000.00	611.64	61.16	80-120	*
Dibromofluoromethane	50.00	48.55	97.12	71-125	
1,2-Dichloroethane-d4	50.00	47.70	95.40	70-125	
Toluene-d8	50.00	51.59	103.20	75-125	

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Form 7

Continuing Calibration Verification (CCV)

Volatiles by EPA 8260

Workorder

HS23061812

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/07/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS23061812

RunID VOA6_440138

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID X062803.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date :17
ICAL Date(s) 15-JUN-2023 15-JUN-2023
ICAL Times :15 14:45
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,4-Dioxane	0.00606	0.00642	0.00642	0.001	-6.01799	20.0	Averaged	
1,3-Butadiene	0.41435	0.33412	0.33412	0.100	19.36196	20.0	Averaged	
Methacrylonitrile	0.41256	0.35290	0.35290	0.100	14.46096	20.0	Averaged	
Isobutyl Alcohol	0.06519	0.05690	0.05690	0.005	12.71737	20.0	Averaged	
Acetonitrile	0.04850	0.03969	0.03969	0.005	18.15530	20.0	Averaged	
Allyl Chloride	1.09651	0.89019	0.89019	0.100	18.81549	20.0	Averaged	
Propionitrile	0.06047	0.05308	0.05308	0.010	12.22703	20.0	Averaged	
trans-1,4-Dichloro-2-butene	0.12170	0.11489	0.11489	0.050	5.59014	20.0	Averaged	
Acetaldehyde	200	170	0.02237	0.001	15.24783	20.0	Linear	
Chloroprene	0.16619	0.13901	0.13901	0.100	16.35051	20.0	Averaged	
Ethyl Acetate	0.50967	0.41224	0.41224	0.100	19.11738	20.0	Averaged	
Methyl Methacrylate	0.38707	0.33816	0.33816	0.100	12.63625	20.0	Averaged	
Ethyl Methacrylate	0.35838	0.30225	0.30225	0.100	15.66101	20.0	Averaged	
Methyl Acrylate	0.40496	0.39116	0.39116	0.100	3.40790	20.0	Averaged	
n-Hexane	50.0	48.13571	0.43980	0.100	3.72857	20.0	Quadratic	
Diethyl ether	0.31325	0.27120	0.27120	0.100	13.42374	20.0	Averaged	
Diisopropyl ether	1.47464	1.20735	1.20735	0.100	18.12530	20.0	Averaged	
1,2,3-Trimethylbenzene	2.37667	2.35747	2.35747	0.100	0.80800	20.0	Averaged	
Dichlorodifluoromethane	50.0	45.38696	0.39058	0.100	9.22609	20.0	Linear	
Chloromethane	50.0	44.50112	0.46920	0.100	10.99777	20.0	Linear	
Vinyl Chloride	0.52511	0.44428	0.44428	0.100	15.39172	20.0	Averaged	
Bromomethane	0.30142	0.28996	0.28996	0.100	3.80116	20.0	Averaged	
Chloroethane	0.32098	0.28355	0.28355	0.100	11.65958	20.0	Averaged	
Trichlorofluoromethane	0.62401	0.57134	0.57134	0.100	8.43972	20.0	Averaged	
Acrolein	0.03103	0.02795	0.02795	0.010	9.92069	20.0	Averaged	
Acetone	100	80.19147	0.10462	0.100	19.80853	20.0	Linear	
1,1-Dichloroethene	0.39145	0.34470	0.34470	0.100	11.94426	20.0	Averaged	
Iodomethane	100	103	0.67140	0.100	-3.26937	20.0	Quadratic	
Acrylonitrile	0.15871	0.13377	0.13377	0.050	15.71399	20.0	Averaged	
Methylene Chloride	0.55293	0.48641	0.48641	0.100	12.03184	20.0	Averaged	
Methyl tert-butyl ether	1.36625	1.17578	1.17578	0.100	13.94118	20.0	Averaged	
Carbon Disulfide	1.39384	1.17701	1.17701	0.100	15.55668	20.0	Averaged	
trans-1,2-Dichloroethene	0.46841	0.42926	0.42926	0.100	8.35815	20.0	Averaged	
Vinyl Acetate	1.25019	1.13417	1.13417	0.010	9.28070	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS23061812

RunID VOA6_440138

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID X062803.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date :17
ICAL Date(s) 15-JUN-2023 15-JUN-2023
ICAL Times :15 14:45
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,1-Dichloroethane	0.84382	0.74066	0.74066	0.200	12.22566	20.0	Averaged	
2-Butanone	0.16455	0.14631	0.14631	0.100	11.08528	20.0	Averaged	
2,2-Dichloropropane	50.0	46.69741	0.62190	0.100	6.60518	20.0	Linear	
cis-1,2-Dichloroethene	0.54016	0.50382	0.50382	0.100	6.72776	20.0	Averaged	
Chloroform	0.90821	0.79928	0.79928	0.200	11.99386	20.0	Averaged	
Bromochloromethane	0.28784	0.28238	0.28238	0.100	1.89575	20.0	Averaged	
30 Dibromofluoromethane	50.0	47.40050	0.42348	0.100	5.19901	20.0	Linear	
1,1,1-Trichloroethane	0.73406	0.64702	0.64702	0.100	11.85653	20.0	Averaged	
1,1-Dichloropropene	0.41897	0.39374	0.39374	0.100	6.02211	20.0	Averaged	
1,2-Dichloroethane	0.41982	0.39148	0.39148	0.100	6.75034	20.0	Averaged	
Carbon Tetrachloride	0.40293	0.38509	0.38509	0.100	4.42868	20.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	43.62945	0.42163	0.100	12.74110	20.0	Linear	
Benzene	1.28613	1.24750	1.24750	0.500	3.00395	20.0	Averaged	
Trichloroethene	0.35461	0.36790	0.36790	0.200	-3.74668	20.0	Averaged	
Bromodichloromethane	0.45495	0.43432	0.43432	0.200	4.53568	20.0	Averaged	
2-Chloroethylvinyl ether	0.12311	0.12316	0.12316	0.001	-0.03976	20.0	Averaged	
1,2-Dichloropropane	0.33759	0.32495	0.32495	0.100	3.74253	20.0	Averaged	
Dibromomethane	0.21192	0.21563	0.21563	0.100	-1.74983	20.0	Averaged	
4-Methyl-2-Pentanone	0.32299	0.29238	0.29238	0.100	9.47589	20.0	Averaged	
cis-1,3-Dichloropropene	0.56095	0.55766	0.55766	0.200	0.58652	20.0	Averaged	
48 Toluene-d8	1.26411	1.19807	1.19807	0.100	5.22448	20.0	Averaged	
Toluene	1.46787	1.47521	1.47521	0.400	-0.50023	20.0	Averaged	
trans-1,3-Dichloropropene	0.46933	0.47222	0.47222	0.100	-0.61432	20.0	Averaged	
2-Hexanone	0.21575	0.20074	0.20074	0.100	6.95719	20.0	Averaged	
1,1,2-Trichloroethane	0.28597	0.28692	0.28692	0.100	-0.33344	20.0	Averaged	
1,3-Dichloropropane	0.57821	0.57866	0.57866	0.100	-0.07776	20.0	Averaged	
Dibromochloromethane	0.40528	0.42427	0.42427	0.100	-4.68546	20.0	Averaged	
Tetrachloroethene	0.30185	0.31268	0.31268	0.200	-3.58728	20.0	Averaged	
1,2-Dibromoethane	0.36552	0.37316	0.37316	0.100	-2.09006	20.0	Averaged	
1-Chlorohexane	0.30406	0.26864	0.26864	0.100	11.64843	20.0	Averaged	
Chlorobenzene	1.00438	1.04069	1.04069	0.500	-3.61489	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.37452	0.39425	0.39425	0.100	-5.26835	20.0	Averaged	
Ethylbenzene	0.51747	0.51767	0.51767	0.100	-0.03800	20.0	Averaged	
m,p-Xylenes	0.63815	0.66930	0.66930	0.100	-4.88229	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS23061812

RunID VOA6_440138

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID X062803.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date :17
ICAL Date(s) 15-JUN-2023 15-JUN-2023
ICAL Times :15 14:45
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
o-Xylene	0.63677	0.64618	0.64618	0.300	-1.47771	20.0	Averaged	
Styrene	1.04887	1.12404	1.12404	0.300	-7.16744	20.0	Averaged	
Bromoform	0.28254	0.31337	0.31337	0.100	-10.91184	20.0	Averaged	
Isopropylbenzene	1.57393	1.55877	1.55877	0.100	0.96297	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.87919	0.84836	0.84836	0.300	3.50622	20.0	Averaged	
1,2,3-Trichloropropane	0.63044	0.65224	0.65224	0.100	-3.45865	20.0	Averaged	
n-Propylbenzene	3.29025	3.19690	3.19690	0.100	2.83728	20.0	Averaged	
Bromobenzene	0.81493	0.87167	0.87167	0.100	-6.96171	20.0	Averaged	
1,3,5-Trimethylbenzene	2.41429	2.39350	2.39350	0.100	0.86138	20.0	Averaged	
2-Chlorotoluene	2.08941	1.99586	1.99586	0.100	4.47744	20.0	Averaged	
4-Chlorotoluene	2.33060	2.33717	2.33717	0.100	-0.28162	20.0	Averaged	
tert-Butylbenzene	2.01139	1.98018	1.98018	0.100	1.55148	20.0	Averaged	
1,2,4-Trimethylbenzene	2.43582	2.45982	2.45982	0.100	-0.98514	20.0	Averaged	
sec-Butylbenzene	2.83678	2.76702	2.76702	0.100	2.45908	20.0	Averaged	
p-Isopropyltoluene	2.48362	2.49052	2.49052	0.100	-0.27752	20.0	Averaged	
1,3-Dichlorobenzene	1.45104	1.50514	1.50514	0.600	-3.72813	20.0	Averaged	
1,4-Dichlorobenzene	1.55314	1.58375	1.58375	0.400	-1.97059	20.0	Averaged	
n-Butylbenzene	2.11532	2.14999	2.14999	0.500	-1.63861	20.0	Averaged	
1,2-Dichlorobenzene	1.43975	1.51249	1.51249	0.400	-5.05173	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	55.29483	0.15876	0.040	-10.58965	20.0	Linear	
1,2,4-Trichlorobenzene	1.00154	1.11100	1.11100	0.100	-10.92892	20.0	Averaged	
Hexachlorobutadiene	0.44956	0.49362	0.49362	0.100	-9.80044	20.0	Averaged	
Naphthalene	2.25463	2.48740	2.48740	0.200	-10.32387	20.0	Averaged	
1,2,3-Trichlorobenzene	0.92158	1.03354	1.03354	0.010	-12.14807	20.0	Averaged	
94 1,2-Dichloroethylene (total	0.50428	0.46654	0.46654	0.200	7.48496	20.0	Averaged	
95 Xylenes (total)	0.59807	0.62328	0.62328	0.100	-4.21633	20.0	Averaged	
Cyclohexane	0.63736	0.55080	0.55080	0.100	13.58158	20.0	Averaged	
Freon TF	50.0	47.89526	0.33293	0.100	4.20949	20.0	Quadratic	
Methylcyclohexane	0.69881	0.67368	0.67368	0.100	3.59508	20.0	Averaged	
Methyl Acetate	0.29595	0.24641	0.24641	0.100	16.73899	20.0	Averaged	
Tert-butyl alcohol	0.05134	0.04447	0.04447	0.005	13.39553	20.0	Averaged	
Isopropyl alcohol	0.02834	0.02391	0.02391	0.005	15.63063	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS23061812

RunID VOA6_440138

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID X062830.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date :45
ICAL Date(s) 15-JUN-2023 15-JUN-2023
ICAL Times :15 14:45
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,4-Dioxane	0.00606	0.00542	0.00542	0.001	10.54051	50.0	Averaged	
1,3-Butadiene	0.41435	0.33258	0.33258	0.100	19.73476	50.0	Averaged	
Methacrylonitrile	0.41256	0.34648	0.34648	0.100	16.01512	50.0	Averaged	
Isobutyl Alcohol	0.06519	0.05290	0.05290	0.005	18.85451	50.0	Averaged	
Acetonitrile	0.04850	0.03808	0.03808	0.005	21.47563	50.0	Averaged	
Allyl Chloride	1.09651	0.86926	0.86926	0.100	20.72472	50.0	Averaged	
Propionitrile	0.06047	0.05347	0.05347	0.010	11.56705	50.0	Averaged	
trans-1,4-Dichloro-2-butene	0.12170	0.09726	0.09726	0.050	20.08037	50.0	Averaged	
Acetaldehyde	200	212	0.02787	0.001	-6.03612	50.0	Linear	
Chloroprene	0.16619	0.13689	0.13689	0.100	17.63147	50.0	Averaged	
Ethyl Acetate	0.50967	0.39007	0.39007	0.100	23.46693	50.0	Averaged	
Methyl Methacrylate	0.38707	0.33583	0.33583	0.100	13.23710	50.0	Averaged	
Ethyl Methacrylate	0.35838	0.29960	0.29960	0.100	16.40185	50.0	Averaged	
Methyl Acrylate	0.40496	0.38452	0.38452	0.100	5.04736	50.0	Averaged	
n-Hexane	50.0	42.74761	0.38828	0.100	14.50479	50.0	Quadratic	
Diethyl ether	0.31325	0.27306	0.27306	0.100	12.82802	50.0	Averaged	
Diisopropyl ether	1.47464	1.25321	1.25321	0.100	15.01557	50.0	Averaged	
1,2,3-Trimethylbenzene	2.37667	2.31881	2.31881	0.100	2.43452	50.0	Averaged	
Dichlorodifluoromethane	50.0	35.93834	0.30867	0.100	28.12332	50.0	Linear	
Chloromethane	50.0	40.76367	0.42886	0.100	18.47266	50.0	Linear	
Vinyl Chloride	0.52511	0.42429	0.42429	0.100	19.19878	50.0	Averaged	
Bromomethane	0.30142	0.27926	0.27926	0.100	7.35091	50.0	Averaged	
Chloroethane	0.32098	0.28015	0.28015	0.100	12.72155	50.0	Averaged	
Trichlorofluoromethane	0.62401	0.53089	0.53089	0.100	14.92243	50.0	Averaged	
Acrolein	0.03103	0.02610	0.02610	0.010	15.87736	50.0	Averaged	
Acetone	100	71.18534	0.09291	0.100	28.81466	50.0	Linear	
1,1-Dichloroethene	0.39145	0.33215	0.33215	0.100	15.15012	50.0	Averaged	
Iodomethane	100	93.70154	0.60703	0.100	6.29846	50.0	Quadratic	
Acrylonitrile	0.15871	0.13926	0.13926	0.050	12.25683	50.0	Averaged	
Methylene Chloride	0.55293	0.45809	0.45809	0.100	17.15269	50.0	Averaged	
Methyl tert-butyl ether	1.36625	1.16903	1.16903	0.100	14.43513	50.0	Averaged	
Carbon Disulfide	1.39384	1.10140	1.10140	0.100	20.98086	50.0	Averaged	
trans-1,2-Dichloroethene	0.46841	0.40350	0.40350	0.100	13.85694	50.0	Averaged	
Vinyl Acetate	1.25019	1.06713	1.06713	0.010	14.64280	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS23061812

RunID VOA6_440138

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID X062830.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date :45
ICAL Date(s) 15-JUN-2023 15-JUN-2023
ICAL Times :15 14:45
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,1-Dichloroethane	0.84382	0.69270	0.69270	0.200	17.90853	50.0	Averaged	
2-Butanone	0.16455	0.13350	0.13350	0.100	18.86614	50.0	Averaged	
2,2-Dichloropropane	50.0	39.30471	0.52346	0.100	21.39057	50.0	Linear	
cis-1,2-Dichloroethene	0.54016	0.47824	0.47824	0.100	11.46349	50.0	Averaged	
Chloroform	0.90821	0.74578	0.74578	0.200	17.88526	50.0	Averaged	
Bromochloromethane	0.28784	0.25186	0.25186	0.100	12.49839	50.0	Averaged	
30 Dibromofluoromethane	50.0	45.74673	0.40882	0.100	8.50654	50.0	Linear	
1,1,1-Trichloroethane	0.73406	0.60818	0.60818	0.100	17.14817	50.0	Averaged	
1,1-Dichloropropene	0.41897	0.37102	0.37102	0.100	11.44401	50.0	Averaged	
1,2-Dichloroethane	0.41982	0.34804	0.34804	0.100	17.09598	50.0	Averaged	
Carbon Tetrachloride	0.40293	0.35127	0.35127	0.100	12.82191	50.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	39.70743	0.38446	0.100	20.58514	50.0	Linear	
Benzene	1.28613	1.16974	1.16974	0.500	9.04989	50.0	Averaged	
Trichloroethene	0.35461	0.34081	0.34081	0.200	3.89298	50.0	Averaged	
Bromodichloromethane	0.45495	0.39071	0.39071	0.200	14.12080	50.0	Averaged	
2-Chloroethylvinyl ether	0.12311	0.10384	0.10384	0.001	15.65417	50.0	Averaged	
1,2-Dichloropropane	0.33759	0.30189	0.30189	0.100	10.57282	50.0	Averaged	
Dibromomethane	0.21192	0.18996	0.18996	0.100	10.36236	50.0	Averaged	
4-Methyl-2-Pentanone	0.32299	0.26421	0.26421	0.100	18.19786	50.0	Averaged	
cis-1,3-Dichloropropene	0.56095	0.49308	0.49308	0.200	12.09801	50.0	Averaged	
48 Toluene-d8	1.26411	1.18556	1.18556	0.100	6.21393	50.0	Averaged	
Toluene	1.46787	1.36975	1.36975	0.400	6.68440	50.0	Averaged	
trans-1,3-Dichloropropene	0.46933	0.41290	0.41290	0.100	12.02402	50.0	Averaged	
2-Hexanone	0.21575	0.17948	0.17948	0.100	16.81054	50.0	Averaged	
1,1,2-Trichloroethane	0.28597	0.25589	0.25589	0.100	10.51721	50.0	Averaged	
1,3-Dichloropropane	0.57821	0.51644	0.51644	0.100	10.68226	50.0	Averaged	
Dibromochloromethane	0.40528	0.37476	0.37476	0.100	7.53226	50.0	Averaged	
Tetrachloroethene	0.30185	0.28783	0.28783	0.200	4.64632	50.0	Averaged	
1,2-Dibromoethane	0.36552	0.33482	0.33482	0.100	8.39834	50.0	Averaged	
1-Chlorohexane	0.30406	0.25621	0.25621	0.100	15.73898	50.0	Averaged	
Chlorobenzene	1.00438	0.94450	0.94450	0.500	5.96158	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.37452	0.34783	0.34783	0.100	7.12672	50.0	Averaged	
Ethylbenzene	0.51747	0.48096	0.48096	0.100	7.05598	50.0	Averaged	
m,p-Xylenes	0.63815	0.60782	0.60782	0.100	4.75291	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS23061812

RunID VOA6_440138

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID X062830.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date :45
ICAL Date(s) 15-JUN-2023 15-JUN-2023
ICAL Times :15 14:45
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
o-Xylene	0.63677	0.58357	0.58357	0.300	8.35523	50.0	Averaged	
Styrene	1.04887	1.01550	1.01550	0.300	3.18096	50.0	Averaged	
Bromoform	0.28254	0.26749	0.26749	0.100	5.32792	50.0	Averaged	
Isopropylbenzene	1.57393	1.45099	1.45099	0.100	7.81126	50.0	Averaged	
1,1,2,2-Tetrachloroethane	0.87919	0.74663	0.74663	0.300	15.07735	50.0	Averaged	
1,2,3-Trichloropropane	0.63044	0.52853	0.52853	0.100	16.16436	50.0	Averaged	
n-Propylbenzene	3.29025	2.91018	2.91018	0.100	11.55147	50.0	Averaged	
Bromobenzene	0.81493	0.76286	0.76286	0.100	6.39058	50.0	Averaged	
1,3,5-Trimethylbenzene	2.41429	2.18522	2.18522	0.100	9.48818	50.0	Averaged	
2-Chlorotoluene	2.08941	1.80525	1.80525	0.100	13.60004	50.0	Averaged	
4-Chlorotoluene	2.33060	2.07514	2.07514	0.100	10.96134	50.0	Averaged	
tert-Butylbenzene	2.01139	1.83336	1.83336	0.100	8.85072	50.0	Averaged	
1,2,4-Trimethylbenzene	2.43582	2.19914	2.19914	0.100	9.71670	50.0	Averaged	
sec-Butylbenzene	2.83678	2.55315	2.55315	0.100	9.99828	50.0	Averaged	
p-Isopropyltoluene	2.48362	2.28499	2.28499	0.100	7.99758	50.0	Averaged	
1,3-Dichlorobenzene	1.45104	1.35371	1.35371	0.600	6.70764	50.0	Averaged	
1,4-Dichlorobenzene	1.55314	1.41135	1.41135	0.400	9.12941	50.0	Averaged	
n-Butylbenzene	2.11532	1.94002	1.94002	0.500	8.28747	50.0	Averaged	
1,2-Dichlorobenzene	1.43975	1.35623	1.35623	0.400	5.80122	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	48.37693	0.13880	0.040	3.24613	50.0	Linear	
1,2,4-Trichlorobenzene	1.00154	0.96927	0.96927	0.100	3.22214	50.0	Averaged	
Hexachlorobutadiene	0.44956	0.43540	0.43540	0.100	3.14995	50.0	Averaged	
Naphthalene	2.25463	2.18848	2.18848	0.200	2.93412	50.0	Averaged	
1,2,3-Trichlorobenzene	0.92158	0.91258	0.91258	0.010	0.97696	50.0	Averaged	
94 1,2-Dichloroethylene (total	0.50428	0.44087	0.44087	0.200	12.57508	50.0	Averaged	
95 Xylenes (total)	0.59807	0.56594	0.56594	0.100	5.37124	50.0	Averaged	
Cyclohexane	0.63736	0.54780	0.54780	0.100	14.05147	50.0	Averaged	
Freon TF	50.0	47.58029	0.33070	0.100	4.83942	50.0	Quadratic	
Methylcyclohexane	0.69881	0.66184	0.66184	0.100	5.29061	50.0	Averaged	
Methyl Acetate	0.29595	0.23453	0.23453	0.100	20.75369	50.0	Averaged	
Tert-butyl alcohol	0.05134	0.03869	0.03869	0.005	24.64237	50.0	Averaged	
Isopropyl alcohol	0.02834	0.02130	0.02130	0.005	24.85396	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS23061812

RunID VOA9_440247

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U062903.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date :09
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times :15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dichlorodifluoromethane	50.0	47.43151	0.43820	0.100	5.13697	20.0	Linear	
Chloromethane	50.0	41.84390	0.63432	0.100	16.31220	20.0	Linear	
Vinyl Chloride	0.52887	0.50931	0.50931	0.100	3.69818	20.0	Averaged	
Bromomethane	50.0	56.32131	0.30511	0.100	-12.64261	20.0	Linear	
Chloroethane	0.35626	0.34365	0.34365	0.100	3.54130	20.0	Averaged	
Trichlorofluoromethane	0.60742	0.65934	0.65934	0.100	-8.54734	20.0	Averaged	
Acrolein	0.02654	0.02584	0.02584	0.010	2.64952	20.0	Averaged	
Acetone	100	103	0.17591	0.100	-2.57648	20.0	Linear	
1,1-Dichloroethene	0.37953	0.38426	0.38426	0.100	-1.24685	20.0	Averaged	
Iodomethane	100	132	0.41365	0.100	-32.11472	20.0	Quadratic	*
Acrylonitrile	0.18542	0.18239	0.18239	0.050	1.63795	20.0	Averaged	
Methylene Chloride	50.0	53.17212	0.48432	0.100	-6.34423	20.0	Linear	
Methyl tert-butyl ether	1.16385	1.22145	1.22145	0.100	-4.94944	20.0	Averaged	
Carbon Disulfide	1.01461	1.16039	1.16039	0.100	-14.36765	20.0	Averaged	
trans-1,2-Dichloroethene	0.41275	0.42646	0.42646	0.100	-3.32170	20.0	Averaged	
Vinyl Acetate	1.25818	1.34147	1.34147	0.010	-6.61946	20.0	Averaged	
1,1-Dichloroethane	0.78439	0.75108	0.75108	0.200	4.24663	20.0	Averaged	
2-Butanone	0.22797	0.21475	0.21475	0.100	5.79828	20.0	Averaged	
2,2-Dichloropropane	50.0	55.63364	0.57751	0.100	-11.26728	20.0	Linear	
cis-1,2-Dichloroethene	0.49378	0.49760	0.49760	0.100	-0.77325	20.0	Averaged	
Chloroform	0.81639	0.81939	0.81939	0.200	-0.36758	20.0	Averaged	
Bromochloromethane	0.27621	0.27582	0.27582	0.100	0.13959	20.0	Averaged	
30 Dibromofluoromethane	50.0	48.74765	0.40924	0.100	2.50471	20.0	Linear	
1,1,1-Trichloroethane	0.62223	0.64024	0.64024	0.100	-2.89468	20.0	Averaged	
1,1-Dichloropropene	0.36644	0.39071	0.39071	0.100	-6.62437	20.0	Averaged	
1,2-Dichloroethane	0.43276	0.46702	0.46702	0.100	-7.91699	20.0	Averaged	
Carbon Tetrachloride	0.33660	0.37989	0.37989	0.100	-12.86121	20.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	48.83371	0.44367	0.100	2.33258	20.0	Linear	
Benzene	1.20483	1.25432	1.25432	0.500	-4.10802	20.0	Averaged	
Trichloroethene	0.34921	0.35424	0.35424	0.200	-1.44093	20.0	Averaged	
Bromodichloromethane	0.37583	0.42424	0.42424	0.200	-12.87998	20.0	Averaged	
2-Chloroethylvinyl ether	0.00909	0.00412	0.00412	0.001	54.70664	20.0	Averaged	*
1,2-Dichloropropane	0.32169	0.33527	0.33527	0.100	-4.22263	20.0	Averaged	
Dibromomethane	0.20554	0.22408	0.22408	0.100	-9.02047	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS23061812

RunID VOA9_440247

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U062903.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date :09
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times :15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
4-Methyl-2-Pentanone	0.36411	0.36190	0.36190	0.100	0.60503	20.0	Averaged	
cis-1,3-Dichloropropene	50.0	51.46896	0.51890	0.200	-2.93792	20.0	Linear	
48 Toluene-d8	1.13164	1.07913	1.07913	0.100	4.64085	20.0	Averaged	
Toluene	1.35612	1.39671	1.39671	0.400	-2.99312	20.0	Averaged	
trans-1,3-Dichloropropene	50.0	51.75379	0.43807	0.100	-3.50758	20.0	Linear	
2-Hexanone	0.25357	0.23928	0.23928	0.100	5.63298	20.0	Averaged	
1,1,2-Trichloroethane	0.28217	0.27786	0.27786	0.100	1.52784	20.0	Averaged	
1,3-Dichloropropane	0.57650	0.58841	0.58841	0.100	-2.06542	20.0	Averaged	
Dibromochloromethane	0.33480	0.38492	0.38492	0.100	-14.97207	20.0	Averaged	
Tetrachloroethene	0.33041	0.33232	0.33232	0.200	-0.58072	20.0	Averaged	
1,2-Dibromoethane	0.34808	0.35969	0.35969	0.100	-3.33675	20.0	Averaged	
1-Chlorohexane	0.25674	0.26927	0.26927	0.100	-4.87822	20.0	Averaged	
Chlorobenzene	0.96786	0.97988	0.97988	0.500	-1.24196	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.33265	0.36321	0.36321	0.100	-9.18475	20.0	Averaged	
Ethylbenzene	0.45047	0.46729	0.46729	0.100	-3.73313	20.0	Averaged	
m,p-Xylenes	0.53296	0.57699	0.57699	0.100	-8.26007	20.0	Averaged	
o-Xylene	0.52651	0.56923	0.56923	0.300	-8.11408	20.0	Averaged	
Styrene	0.83556	0.96145	0.96145	0.300	-15.06603	20.0	Averaged	
Bromoform	0.22599	0.26011	0.26011	0.100	-15.09768	20.0	Averaged	
Isopropylbenzene	1.26463	1.35071	1.35071	0.100	-6.80701	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.94051	0.89819	0.89819	0.300	4.49976	20.0	Averaged	
1,2,3-Trichloropropane	0.82740	0.84328	0.84328	0.100	-1.91888	20.0	Averaged	
n-Propylbenzene	2.62266	2.77707	2.77707	0.100	-5.88749	20.0	Averaged	
Bromobenzene	0.84363	0.84807	0.84807	0.100	-0.52524	20.0	Averaged	
1,3,5-Trimethylbenzene	1.79927	1.85919	1.85919	0.100	-3.33034	20.0	Averaged	
2-Chlorotoluene	1.84364	1.84061	1.84061	0.100	0.16449	20.0	Averaged	
4-Chlorotoluene	2.04071	2.08711	2.08711	0.100	-2.27365	20.0	Averaged	
tert-Butylbenzene	1.76718	1.80392	1.80392	0.100	-2.07933	20.0	Averaged	
1,2,4-Trimethylbenzene	1.88261	1.92475	1.92475	0.100	-2.23836	20.0	Averaged	
sec-Butylbenzene	2.24110	2.29709	2.29709	0.100	-2.49834	20.0	Averaged	
p-Isopropyltoluene	1.87752	1.97009	1.97009	0.100	-4.93042	20.0	Averaged	
1,3-Dichlorobenzene	1.43286	1.41056	1.41056	0.600	1.55653	20.0	Averaged	
1,4-Dichlorobenzene	1.52773	1.46186	1.46186	0.400	4.31145	20.0	Averaged	
n-Butylbenzene	1.60731	1.63362	1.63362	0.500	-1.63725	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS23061812

RunID VOA9_440247

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U062903.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date :09
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times :15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,2-Dichlorobenzene	1.43664	1.39356	1.39356	0.400	2.99907	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	0.13724	0.13216	0.13216	0.050	3.70399	20.0	Averaged	
1,2,4-Trichlorobenzene	0.98816	0.95503	0.95503	0.200	3.35253	20.0	Averaged	
Hexachlorobutadiene	0.39906	0.40786	0.40786	0.100	-2.20512	20.0	Averaged	
Naphthalene	2.29538	2.33648	2.33648	0.200	-1.79044	20.0	Averaged	
1,2,3-Trichlorobenzene	0.96603	0.91230	0.91230	0.100	5.56263	20.0	Averaged	
94 1,2-Dichloroethylene (total	0.45327	0.46203	0.46203	0.200	-1.93357	20.0	Averaged	
95 Xylenes (total)	0.50452	0.56644	0.56644	0.100	-12.27256	20.0	Averaged	
1,4-Dioxane	0.00993	0.00666	0.00666	0.001	32.89864	20.0	Averaged	*
Cyclohexane	50.0	46.11382	0.56559	0.100	7.77236	20.0	Quadratic	
Freon TF	0.33580	0.36466	0.36466	0.100	-8.59436	20.0	Averaged	
1,3-Butadiene	0.47352	0.44186	0.44186	0.100	6.68652	20.0	Averaged	
Methylcyclohexane	0.69360	0.71987	0.71987	0.100	-3.78720	20.0	Averaged	
Methyl Acetate	0.42100	0.40036	0.40036	0.100	4.90443	20.0	Averaged	
Tert-butyl alcohol	1000	1071	0.04945	0.005	-7.06494	20.0	Linear	
Isopropyl alcohol	0.03269	0.03236	0.03236	0.005	1.00578	20.0	Averaged	
trans-1,4-Dichloro-2-butene	0.05757	0.07492	0.07492	0.050	-30.13962	20.0	Averaged	*
Isobutyl Alcohol	0.06496	0.06928	0.06928	0.005	-6.64910	20.0	Averaged	
Acetonitrile	0.05413	0.05409	0.05409	0.005	0.08825	20.0	Averaged	
Allyl Chloride	1.29812	1.24695	1.24695	0.100	3.94172	20.0	Averaged	
Methacrylonitrile	0.29541	0.29881	0.29881	0.100	-1.14990	20.0	Averaged	
Methyl Methacrylate	0.42991	0.45033	0.45033	0.100	-4.75041	20.0	Averaged	
Propionitrile	0.07225	0.06899	0.06899	0.010	4.52002	20.0	Averaged	
Methyl Acrylate	0.52880	0.55963	0.55963	0.100	-5.83051	20.0	Averaged	
Ethyl Methacrylate	0.43830	0.47128	0.47128	0.100	-7.52596	20.0	Averaged	
1,2,3-Trimethylbenzene	1.92195	1.90566	1.90566	0.100	0.84718	20.0	Averaged	
Diisopropyl ether	1.39419	1.42745	1.42745	0.100	-2.38586	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS23061812

RunID VOA9_440247

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U062931.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date :53
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times :15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dichlorodifluoromethane	50.0	34.66363	0.32005	0.100	30.67274	50.0	Linear	
Chloromethane	50.0	40.18030	0.60989	0.100	19.63940	50.0	Linear	
Vinyl Chloride	0.52887	0.45348	0.45348	0.100	14.25589	50.0	Averaged	
Bromomethane	50.0	55.93067	0.30306	0.100	-11.86134	50.0	Linear	
Chloroethane	0.35626	0.32606	0.32606	0.100	8.47820	50.0	Averaged	
Trichlorofluoromethane	0.60742	0.60622	0.60622	0.100	0.19675	50.0	Averaged	
Acrolein	0.02654	0.02681	0.02681	0.010	-1.02826	50.0	Averaged	
Acetone	100	96.65182	0.16628	0.100	3.34818	50.0	Linear	
1,1-Dichloroethene	0.37953	0.35746	0.35746	0.100	5.81406	50.0	Averaged	
Iodomethane	100	98.06657	0.29221	0.100	1.93343	50.0	Quadratic	
Acrylonitrile	0.18542	0.19748	0.19748	0.050	-6.49955	50.0	Averaged	
Methylene Chloride	50.0	51.21665	0.46685	0.100	-2.43330	50.0	Linear	
Methyl tert-butyl ether	1.16385	1.25295	1.25295	0.100	-7.65587	50.0	Averaged	
Carbon Disulfide	1.01461	1.07937	1.07937	0.100	-6.38227	50.0	Averaged	
trans-1,2-Dichloroethene	0.41275	0.40722	0.40722	0.100	1.33829	50.0	Averaged	
Vinyl Acetate	1.25818	1.22432	1.22432	0.010	2.69121	50.0	Averaged	
1,1-Dichloroethane	0.78439	0.73760	0.73760	0.200	5.96550	50.0	Averaged	
2-Butanone	0.22797	0.20905	0.20905	0.100	8.29872	50.0	Averaged	
2,2-Dichloropropane	50.0	44.53316	0.46145	0.100	10.93368	50.0	Linear	
cis-1,2-Dichloroethene	0.49378	0.48148	0.48148	0.100	2.49210	50.0	Averaged	
Chloroform	0.81639	0.79704	0.79704	0.200	2.36980	50.0	Averaged	
Bromochloromethane	0.27621	0.26206	0.26206	0.100	5.12382	50.0	Averaged	
30 Dibromofluoromethane	50.0	53.50075	0.44888	0.100	-7.00150	50.0	Linear	
1,1,1-Trichloroethane	0.62223	0.61606	0.61606	0.100	0.99095	50.0	Averaged	
1,1-Dichloropropene	0.36644	0.35105	0.35105	0.100	4.19800	50.0	Averaged	
1,2-Dichloroethane	0.43276	0.44997	0.44997	0.100	-3.97731	50.0	Averaged	
Carbon Tetrachloride	0.33660	0.34734	0.34734	0.100	-3.19290	50.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	53.08374	0.48175	0.100	-6.16747	50.0	Linear	
Benzene	1.20483	1.16914	1.16914	0.500	2.96224	50.0	Averaged	
Trichloroethene	0.34921	0.33843	0.33843	0.200	3.08629	50.0	Averaged	
Bromodichloromethane	0.37583	0.39688	0.39688	0.200	-5.60168	50.0	Averaged	
2-Chloroethylvinyl ether	0.00909	0.00209	0.00209	0.001	77.04020	50.0	Averaged	*
1,2-Dichloropropane	0.32169	0.31271	0.31271	0.100	2.79162	50.0	Averaged	
Dibromomethane	0.20554	0.20800	0.20800	0.100	-1.19749	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS23061812

RunID VOA9_440247

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U062931.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date :53
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times :15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
4-Methyl-2-Pentanone	0.36411	0.33895	0.33895	0.100	6.90792	50.0	Averaged	
cis-1,3-Dichloropropene	50.0	45.56389	0.45707	0.200	8.87222	50.0	Linear	
48 Toluene-d8	1.13164	1.13698	1.13698	0.100	-0.47172	50.0	Averaged	
Toluene	1.35612	1.31711	1.31711	0.400	2.87670	50.0	Averaged	
trans-1,3-Dichloropropene	50.0	45.69877	0.38474	0.100	8.60246	50.0	Linear	
2-Hexanone	0.25357	0.21752	0.21752	0.100	14.21423	50.0	Averaged	
1,1,2-Trichloroethane	0.28217	0.26151	0.26151	0.100	7.32230	50.0	Averaged	
1,3-Dichloropropane	0.57650	0.55955	0.55955	0.100	2.94035	50.0	Averaged	
Dibromochloromethane	0.33480	0.35840	0.35840	0.100	-7.05079	50.0	Averaged	
Tetrachloroethene	0.33041	0.30436	0.30436	0.200	7.88365	50.0	Averaged	
1,2-Dibromoethane	0.34808	0.33948	0.33948	0.100	2.47108	50.0	Averaged	
1-Chlorohexane	0.25674	0.23921	0.23921	0.100	6.83053	50.0	Averaged	
Chlorobenzene	0.96786	0.93200	0.93200	0.500	3.70514	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.33265	0.34108	0.34108	0.100	-2.53370	50.0	Averaged	
Ethylbenzene	0.45047	0.43899	0.43899	0.100	2.55022	50.0	Averaged	
m,p-Xylenes	0.53296	0.55080	0.55080	0.100	-3.34722	50.0	Averaged	
o-Xylene	0.52651	0.54522	0.54522	0.300	-3.55322	50.0	Averaged	
Styrene	0.83556	0.89849	0.89849	0.300	-7.53165	50.0	Averaged	
Bromoform	0.22599	0.25053	0.25053	0.100	-10.85962	50.0	Averaged	
Isopropylbenzene	1.26463	1.27439	1.27439	0.100	-0.77210	50.0	Averaged	
1,1,2,2-Tetrachloroethane	0.94051	0.84396	0.84396	0.300	10.26556	50.0	Averaged	
1,2,3-Trichloropropane	0.82740	0.76963	0.76963	0.100	6.98264	50.0	Averaged	
n-Propylbenzene	2.62266	2.57780	2.57780	0.100	1.71033	50.0	Averaged	
Bromobenzene	0.84363	0.80774	0.80774	0.100	4.25510	50.0	Averaged	
1,3,5-Trimethylbenzene	1.79927	1.76244	1.76244	0.100	2.04693	50.0	Averaged	
2-Chlorotoluene	1.84364	1.76309	1.76309	0.100	4.36925	50.0	Averaged	
4-Chlorotoluene	2.04071	2.00979	2.00979	0.100	1.51532	50.0	Averaged	
tert-Butylbenzene	1.76718	1.69332	1.69332	0.100	4.17958	50.0	Averaged	
1,2,4-Trimethylbenzene	1.88261	1.76024	1.76024	0.100	6.49996	50.0	Averaged	
sec-Butylbenzene	2.24110	2.10548	2.10548	0.100	6.05146	50.0	Averaged	
p-Isopropyltoluene	1.87752	1.75940	1.75940	0.100	6.29108	50.0	Averaged	
1,3-Dichlorobenzene	1.43286	1.34632	1.34632	0.600	6.03997	50.0	Averaged	
1,4-Dichlorobenzene	1.52773	1.38436	1.38436	0.400	9.38463	50.0	Averaged	
n-Butylbenzene	1.60731	1.42684	1.42684	0.500	11.22812	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS23061812

RunID VOA9_440247

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U062931.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date :53
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times :15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,2-Dichlorobenzene	1.43664	1.34617	1.34617	0.400	6.29765	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	0.13724	0.12577	0.12577	0.050	8.35860	50.0	Averaged	
1,2,4-Trichlorobenzene	0.98816	0.88125	0.88125	0.200	10.81985	50.0	Averaged	
Hexachlorobutadiene	0.39906	0.34034	0.34034	0.100	14.71573	50.0	Averaged	
Naphthalene	2.29538	2.07705	2.07705	0.200	9.51162	50.0	Averaged	
1,2,3-Trichlorobenzene	0.96603	0.85863	0.85863	0.100	11.11832	50.0	Averaged	
94 1,2-Dichloroethylene (total	0.45327	0.44435	0.44435	0.200	1.96677	50.0	Averaged	
95 Xylenes (total)	0.50452	0.54195	0.54195	0.100	-7.41935	50.0	Averaged	
1,4-Dioxane	0.00993	0.00641	0.00641	0.001	35.39525	50.0	Averaged	
Cyclohexane	50.0	40.13527	0.49040	0.100	19.72946	50.0	Quadratic	
Freon TF	0.33580	0.32733	0.32733	0.100	2.52238	50.0	Averaged	
1,3-Butadiene	0.47352	0.39962	0.39962	0.100	15.60555	50.0	Averaged	
Methylcyclohexane	0.69360	0.71234	0.71234	0.100	-2.70223	50.0	Averaged	
Methyl Acetate	0.42100	0.41449	0.41449	0.100	1.54683	50.0	Averaged	
Tert-butyl alcohol	1000	1041	0.04807	0.005	-4.07203	50.0	Linear	
Isopropyl alcohol	0.03269	0.03135	0.03135	0.005	4.09263	50.0	Averaged	
trans-1,4-Dichloro-2-butene	0.05757	0.06106	0.06106	0.050	-6.05795	50.0	Averaged	
Isobutyl Alcohol	0.06496	0.06867	0.06867	0.005	-5.70784	50.0	Averaged	
Acetonitrile	0.05413	0.05486	0.05486	0.005	-1.34811	50.0	Averaged	
Allyl Chloride	1.29812	1.27922	1.27922	0.100	1.45631	50.0	Averaged	
Methacrylonitrile	0.29541	0.29676	0.29676	0.100	-0.45758	50.0	Averaged	
Methyl Methacrylate	0.42991	0.44609	0.44609	0.100	-3.76292	50.0	Averaged	
Propionitrile	0.07225	0.07246	0.07246	0.010	-0.29458	50.0	Averaged	
Methyl Acrylate	0.52880	0.57838	0.57838	0.100	-9.37711	50.0	Averaged	
Ethyl Methacrylate	0.43830	0.45856	0.45856	0.100	-4.62415	50.0	Averaged	
1,2,3-Trimethylbenzene	1.92195	1.94044	1.94044	0.100	-0.96199	50.0	Averaged	
Diisopropyl ether	1.39419	1.48306	1.48306	0.100	-6.37463	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS23061812

RunID VOA9_440378

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U063003.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date :21
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times :15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dichlorodifluoromethane	50.0	42.82436	0.39557	0.100	14.35128	20.0	Linear	
Chloromethane	50.0	40.67903	0.61722	0.100	18.64194	20.0	Linear	
Vinyl Chloride	0.52887	0.47195	0.47195	0.100	10.76388	20.0	Averaged	
Bromomethane	50.0	52.58895	0.28553	0.100	-5.17790	20.0	Linear	
Chloroethane	0.35626	0.32336	0.32336	0.100	9.23681	20.0	Averaged	
Trichlorofluoromethane	0.60742	0.59777	0.59777	0.100	1.58836	20.0	Averaged	
Acrolein	0.02654	0.02625	0.02625	0.010	1.10542	20.0	Averaged	
Acetone	100	115	0.19635	0.100	-15.16255	20.0	Linear	
1,1-Dichloroethene	0.37953	0.35330	0.35330	0.100	6.91024	20.0	Averaged	
Iodomethane	100	124	0.38460	0.100	-24.10930	20.0	Quadratic	*
Acrylonitrile	0.18542	0.18170	0.18170	0.050	2.00775	20.0	Averaged	
Methylene Chloride	50.0	51.27116	0.46734	0.100	-2.54232	20.0	Linear	
Methyl tert-butyl ether	1.16385	1.19690	1.19690	0.100	-2.83954	20.0	Averaged	
Carbon Disulfide	1.01461	1.07704	1.07704	0.100	-6.15315	20.0	Averaged	
trans-1,2-Dichloroethene	0.41275	0.39864	0.39864	0.100	3.41871	20.0	Averaged	
Vinyl Acetate	1.25818	1.31917	1.31917	0.010	-4.84759	20.0	Averaged	
1,1-Dichloroethane	0.78439	0.72211	0.72211	0.200	7.94055	20.0	Averaged	
2-Butanone	0.22797	0.21815	0.21815	0.100	4.30806	20.0	Averaged	
2,2-Dichloropropane	50.0	51.58679	0.53520	0.100	-3.17357	20.0	Linear	
cis-1,2-Dichloroethene	0.49378	0.47946	0.47946	0.100	2.90078	20.0	Averaged	
Chloroform	0.81639	0.79663	0.79663	0.200	2.41972	20.0	Averaged	
Bromochloromethane	0.27621	0.27850	0.27850	0.100	-0.83140	20.0	Averaged	
30 Dibromofluoromethane	50.0	48.41826	0.40649	0.100	3.16347	20.0	Linear	
1,1,1-Trichloroethane	0.62223	0.59882	0.59882	0.100	3.76233	20.0	Averaged	
1,1-Dichloropropene	0.36644	0.35901	0.35901	0.100	2.02578	20.0	Averaged	
1,2-Dichloroethane	0.43276	0.45428	0.45428	0.100	-4.97176	20.0	Averaged	
Carbon Tetrachloride	0.33660	0.34854	0.34854	0.100	-3.54888	20.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	49.65668	0.45104	0.100	0.68664	20.0	Linear	
Benzene	1.20483	1.22357	1.22357	0.500	-1.55586	20.0	Averaged	
Trichloroethene	0.34921	0.34040	0.34040	0.200	2.52374	20.0	Averaged	
Bromodichloromethane	0.37583	0.42062	0.42062	0.200	-11.91909	20.0	Averaged	
2-Chloroethylvinyl ether	0.00909	0.00274	0.00274	0.001	69.83297	20.0	Averaged	*
1,2-Dichloropropane	0.32169	0.32955	0.32955	0.100	-2.44320	20.0	Averaged	
Dibromomethane	0.20554	0.21838	0.21838	0.100	-6.24492	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS23061812

RunID VOA9_440378

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U063003.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date :21
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times :15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
4-Methyl-2-Pentanone	0.36411	0.36659	0.36659	0.100	-0.68109	20.0	Averaged	
cis-1,3-Dichloropropene	50.0	50.65422	0.51037	0.200	-1.30845	20.0	Linear	
48 Toluene-d8	1.13164	1.11353	1.11353	0.100	1.60067	20.0	Averaged	
Toluene	1.35612	1.36845	1.36845	0.400	-0.90863	20.0	Averaged	
trans-1,3-Dichloropropene	50.0	50.46165	0.42669	0.100	-0.92331	20.0	Linear	
2-Hexanone	0.25357	0.24493	0.24493	0.100	3.40716	20.0	Averaged	
1,1,2-Trichloroethane	0.28217	0.28520	0.28520	0.100	-1.07509	20.0	Averaged	
1,3-Dichloropropane	0.57650	0.59558	0.59558	0.100	-3.30990	20.0	Averaged	
Dibromochloromethane	0.33480	0.39258	0.39258	0.100	-17.25892	20.0	Averaged	
Tetrachloroethene	0.33041	0.30208	0.30208	0.200	8.57296	20.0	Averaged	
1,2-Dibromoethane	0.34808	0.36386	0.36386	0.100	-4.53418	20.0	Averaged	
1-Chlorohexane	0.25674	0.23500	0.23500	0.100	8.46931	20.0	Averaged	
Chlorobenzene	0.96786	0.97112	0.97112	0.500	-0.33698	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.33265	0.36093	0.36093	0.100	-8.50040	20.0	Averaged	
Ethylbenzene	0.45047	0.44145	0.44145	0.100	2.00248	20.0	Averaged	
m,p-Xylenes	0.53296	0.54702	0.54702	0.100	-2.63779	20.0	Averaged	
o-Xylene	0.52651	0.53643	0.53643	0.300	-1.88356	20.0	Averaged	
Styrene	0.83556	0.92001	0.92001	0.300	-10.10720	20.0	Averaged	
Bromoform	0.22599	0.26416	0.26416	0.100	-16.88977	20.0	Averaged	
Isopropylbenzene	1.26463	1.22412	1.22412	0.100	3.20274	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.94051	0.91885	0.91885	0.300	2.30292	20.0	Averaged	
1,2,3-Trichloropropane	0.82740	0.84447	0.84447	0.100	-2.06303	20.0	Averaged	
n-Propylbenzene	2.62266	2.50450	2.50450	0.100	4.50512	20.0	Averaged	
Bromobenzene	0.84363	0.81966	0.81966	0.100	2.84186	20.0	Averaged	
1,3,5-Trimethylbenzene	1.79927	1.71203	1.71203	0.100	4.84851	20.0	Averaged	
2-Chlorotoluene	1.84364	1.72720	1.72720	0.100	6.31578	20.0	Averaged	
4-Chlorotoluene	2.04071	1.98241	1.98241	0.100	2.85722	20.0	Averaged	
tert-Butylbenzene	1.76718	1.60875	1.60875	0.100	8.96506	20.0	Averaged	
1,2,4-Trimethylbenzene	1.88261	1.76765	1.76765	0.100	6.10659	20.0	Averaged	
sec-Butylbenzene	2.24110	2.04121	2.04121	0.100	8.91892	20.0	Averaged	
p-Isopropyltoluene	1.87752	1.75299	1.75299	0.100	6.63258	20.0	Averaged	
1,3-Dichlorobenzene	1.43286	1.33324	1.33324	0.600	6.95297	20.0	Averaged	
1,4-Dichlorobenzene	1.52773	1.39578	1.39578	0.400	8.63689	20.0	Averaged	
n-Butylbenzene	1.60731	1.46208	1.46208	0.500	9.03529	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS23061812

RunID VOA9_440378

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U063003.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date :21
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times :15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,2-Dichlorobenzene	1.43664	1.35353	1.35353	0.400	5.78543	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	0.13724	0.13542	0.13542	0.050	1.33075	20.0	Averaged	
1,2,4-Trichlorobenzene	0.98816	0.89901	0.89901	0.200	9.02233	20.0	Averaged	
Hexachlorobutadiene	0.39906	0.37580	0.37580	0.100	5.83080	20.0	Averaged	
Naphthalene	2.29538	2.28753	2.28753	0.200	0.34193	20.0	Averaged	
1,2,3-Trichlorobenzene	0.96603	0.86202	0.86202	0.100	10.76730	20.0	Averaged	
94 1,2-Dichloroethylene (total	0.45327	0.43905	0.43905	0.200	3.13659	20.0	Averaged	
95 Xylenes (total)	0.50452	0.52539	0.52539	0.100	-4.13676	20.0	Averaged	
1,4-Dioxane	0.00993	0.00642	0.00642	0.001	35.35019	20.0	Averaged	*
Cyclohexane	50.0	40.65840	0.49696	0.100	18.68319	20.0	Quadratic	
Freon TF	0.33580	0.31501	0.31501	0.100	6.19368	20.0	Averaged	
1,3-Butadiene	0.47352	0.41149	0.41149	0.100	13.09929	20.0	Averaged	
Methylcyclohexane	0.69360	0.70897	0.70897	0.100	-2.21666	20.0	Averaged	
Methyl Acetate	0.42100	0.39553	0.39553	0.100	6.05178	20.0	Averaged	
Tert-butyl alcohol	1000	1044	0.04820	0.005	-4.35667	20.0	Linear	
Isopropyl alcohol	0.03269	0.03102	0.03102	0.005	5.09375	20.0	Averaged	
trans-1,4-Dichloro-2-butene	0.05757	0.07003	0.07003	0.050	-21.64082	20.0	Averaged	*
Isobutyl Alcohol	0.06496	0.07488	0.07488	0.005	-15.26801	20.0	Averaged	
Acetonitrile	0.05413	0.05181	0.05181	0.005	4.28237	20.0	Averaged	
Allyl Chloride	1.29812	1.21396	1.21396	0.100	6.48310	20.0	Averaged	
Methacrylonitrile	0.29541	0.28914	0.28914	0.100	2.12310	20.0	Averaged	
Methyl Methacrylate	0.42991	0.43921	0.43921	0.100	-2.16312	20.0	Averaged	
Propionitrile	0.07225	0.06778	0.06778	0.010	6.18886	20.0	Averaged	
n-Hexane	50.0	45.21643	0.37658	0.100	9.56715	20.0	Quadratic	
Acetaldehyde	0.06896	0.07525	0.07525	0.001	-9.12833	20.0	Averaged	
Methyl Acrylate	0.52880	0.55098	0.55098	0.100	-4.19384	20.0	Averaged	
Dimethyl Disulfide	50.0	48.36739	0.36263	0.020	3.26522	20.0	Quadratic	
Chloroprene	0.15947	0.15014	0.15014	0.100	5.85480	20.0	Averaged	
Ethyl Methacrylate	0.43830	0.47331	0.47331	0.100	-7.98784	20.0	Averaged	
1,2,3-Trimethylbenzene	1.92195	1.83128	1.83128	0.100	4.71749	20.0	Averaged	
Diisopropyl ether	1.39419	1.39377	1.39377	0.100	0.02986	20.0	Averaged	
Butyl acrylate	0.59144	0.59371	0.59371	0.100	-0.38392	20.0	Averaged	
2-Ethylhexyl Acrylate	50.0	52.00737	0.50070	0.100	-4.01473	20.0	Quadratic	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS23061812

RunID VOA9_440378

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U063026.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date :55
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times :15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dichlorodifluoromethane	50.0	37.00947	0.34176	0.100	25.98105	50.0	Linear	
Chloromethane	50.0	41.33491	0.62685	0.100	17.33018	50.0	Linear	
Vinyl Chloride	0.52887	0.48350	0.48350	0.100	8.57936	50.0	Averaged	
Bromomethane	50.0	55.06247	0.29850	0.100	-10.12494	50.0	Linear	
Chloroethane	0.35626	0.34349	0.34349	0.100	3.58465	50.0	Averaged	
Trichlorofluoromethane	0.60742	0.65508	0.65508	0.100	-7.84722	50.0	Averaged	
Acrolein	0.02654	0.02496	0.02496	0.010	5.96764	50.0	Averaged	
Acetone	100	94.99115	0.16358	0.100	5.00885	50.0	Linear	
1,1-Dichloroethene	0.37953	0.38389	0.38389	0.100	-1.14863	50.0	Averaged	
Iodomethane	100	117	0.36045	0.100	-17.38607	50.0	Quadratic	
Acrylonitrile	0.18542	0.19080	0.19080	0.050	-2.89931	50.0	Averaged	
Methylene Chloride	50.0	53.40743	0.48643	0.100	-6.81485	50.0	Linear	
Methyl tert-butyl ether	1.16385	1.21135	1.21135	0.100	-4.08122	50.0	Averaged	
Carbon Disulfide	1.01461	1.14421	1.14421	0.100	-12.77301	50.0	Averaged	
trans-1,2-Dichloroethene	0.41275	0.42910	0.42910	0.100	-3.96292	50.0	Averaged	
Vinyl Acetate	1.25818	1.27675	1.27675	0.010	-1.47543	50.0	Averaged	
1,1-Dichloroethane	0.78439	0.75860	0.75860	0.200	3.28799	50.0	Averaged	
2-Butanone	0.22797	0.20272	0.20272	0.100	11.07476	50.0	Averaged	
2,2-Dichloropropane	50.0	46.94276	0.48665	0.100	6.11448	50.0	Linear	
cis-1,2-Dichloroethene	0.49378	0.49964	0.49964	0.100	-1.18580	50.0	Averaged	
Chloroform	0.81639	0.82342	0.82342	0.200	-0.86132	50.0	Averaged	
Bromochloromethane	0.27621	0.27724	0.27724	0.100	-0.37461	50.0	Averaged	
30 Dibromofluoromethane	50.0	51.49911	0.43219	0.100	-2.99821	50.0	Linear	
1,1,1-Trichloroethane	0.62223	0.64371	0.64371	0.100	-3.45296	50.0	Averaged	
1,1-Dichloropropene	0.36644	0.36799	0.36799	0.100	-0.42445	50.0	Averaged	
1,2-Dichloroethane	0.43276	0.44859	0.44859	0.100	-3.65728	50.0	Averaged	
Carbon Tetrachloride	0.33660	0.36287	0.36287	0.100	-7.80590	50.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	51.72856	0.46961	0.100	-3.45711	50.0	Linear	
Benzene	1.20483	1.21536	1.21536	0.500	-0.87415	50.0	Averaged	
Trichloroethene	0.34921	0.37100	0.37100	0.200	-6.23962	50.0	Averaged	
Bromodichloromethane	0.37583	0.40929	0.40929	0.200	-8.90296	50.0	Averaged	
2-Chloroethylvinyl ether	0.00909	++++	4.262e+69	0.001	++++	50.0	Averaged	*
1,2-Dichloropropane	0.32169	0.32883	0.32883	0.100	-2.21870	50.0	Averaged	
Dibromomethane	0.20554	0.21102	0.21102	0.100	-2.66345	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS23061812

RunID VOA9_440378

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U063026.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date :55
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times :15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
4-Methyl-2-Pentanone	0.36411	0.33689	0.33689	0.100	7.47332	50.0	Averaged	
cis-1,3-Dichloropropene	50.0	46.23674	0.46412	0.200	7.52652	50.0	Linear	
48 Toluene-d8	1.13164	1.11387	1.11387	0.100	1.57066	50.0	Averaged	
Toluene	1.35612	1.35774	1.35774	0.400	-0.11892	50.0	Averaged	
trans-1,3-Dichloropropene	50.0	47.16563	0.39766	0.100	5.66873	50.0	Linear	
2-Hexanone	0.25357	0.21798	0.21798	0.100	14.03350	50.0	Averaged	
1,1,2-Trichloroethane	0.28217	0.27508	0.27508	0.100	2.51297	50.0	Averaged	
1,3-Dichloropropane	0.57650	0.56336	0.56336	0.100	2.27850	50.0	Averaged	
Dibromochloromethane	0.33480	0.36466	0.36466	0.100	-8.91973	50.0	Averaged	
Tetrachloroethene	0.33041	0.31074	0.31074	0.200	5.95231	50.0	Averaged	
1,2-Dibromoethane	0.34808	0.34073	0.34073	0.100	2.11033	50.0	Averaged	
1-Chlorohexane	0.25674	0.25102	0.25102	0.100	2.22889	50.0	Averaged	
Chlorobenzene	0.96786	0.95929	0.95929	0.500	0.88545	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.33265	0.34822	0.34822	0.100	-4.68061	50.0	Averaged	
Ethylbenzene	0.45047	0.45668	0.45668	0.100	-1.37749	50.0	Averaged	
m,p-Xylenes	0.53296	0.56921	0.56921	0.100	-6.80025	50.0	Averaged	
o-Xylene	0.52651	0.56008	0.56008	0.300	-6.37594	50.0	Averaged	
Styrene	0.83556	0.92218	0.92218	0.300	-10.36685	50.0	Averaged	
Bromoform	0.22599	0.25038	0.25038	0.100	-10.79123	50.0	Averaged	
Isopropylbenzene	1.26463	1.30985	1.30985	0.100	-3.57615	50.0	Averaged	
1,1,2,2-Tetrachloroethane	0.94051	0.85694	0.85694	0.300	8.88552	50.0	Averaged	
1,2,3-Trichloropropane	0.82740	0.76772	0.76772	0.100	7.21338	50.0	Averaged	
n-Propylbenzene	2.62266	2.54536	2.54536	0.100	2.94734	50.0	Averaged	
Bromobenzene	0.84363	0.81234	0.81234	0.100	3.70931	50.0	Averaged	
1,3,5-Trimethylbenzene	1.79927	1.79088	1.79088	0.100	0.46613	50.0	Averaged	
2-Chlorotoluene	1.84364	1.77149	1.77149	0.100	3.91346	50.0	Averaged	
4-Chlorotoluene	2.04071	2.03970	2.03970	0.100	0.04946	50.0	Averaged	
tert-Butylbenzene	1.76718	1.70622	1.70622	0.100	3.44962	50.0	Averaged	
1,2,4-Trimethylbenzene	1.88261	1.78844	1.78844	0.100	5.00237	50.0	Averaged	
sec-Butylbenzene	2.24110	2.13485	2.13485	0.100	4.74077	50.0	Averaged	
p-Isopropyltoluene	1.87752	1.78224	1.78224	0.100	5.07445	50.0	Averaged	
1,3-Dichlorobenzene	1.43286	1.35827	1.35827	0.600	5.20614	50.0	Averaged	
1,4-Dichlorobenzene	1.52773	1.42716	1.42716	0.400	6.58340	50.0	Averaged	
n-Butylbenzene	1.60731	1.45184	1.45184	0.500	9.67266	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS23061812

RunID VOA9_440378

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U063026.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date :55
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times :15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,2-Dichlorobenzene	1.43664	1.37079	1.37079	0.400	4.58368	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	0.13724	0.12322	0.12322	0.050	10.21503	50.0	Averaged	
1,2,4-Trichlorobenzene	0.98816	0.90148	0.90148	0.200	8.77173	50.0	Averaged	
Hexachlorobutadiene	0.39906	0.34415	0.34415	0.100	13.76046	50.0	Averaged	
Naphthalene	2.29538	2.10982	2.10982	0.200	8.08407	50.0	Averaged	
1,2,3-Trichlorobenzene	0.96603	0.88483	0.88483	0.100	8.40565	50.0	Averaged	
94 1,2-Dichloroethylene (total	0.45327	0.46437	0.46437	0.200	-2.45023	50.0	Averaged	
95 Xylenes (total)	0.50452	0.55645	0.55645	0.100	-10.29377	50.0	Averaged	
1,4-Dioxane	0.00993	0.00658	0.00658	0.001	33.74200	50.0	Averaged	
Cyclohexane	50.0	42.78398	0.52365	0.100	14.43203	50.0	Quadratic	
Freon TF	0.33580	0.33871	0.33871	0.100	-0.86686	50.0	Averaged	
1,3-Butadiene	0.47352	0.43012	0.43012	0.100	9.16571	50.0	Averaged	
Methylcyclohexane	0.69360	0.68645	0.68645	0.100	1.03046	50.0	Averaged	
Methyl Acetate	0.42100	0.39784	0.39784	0.100	5.50299	50.0	Averaged	
Tert-butyl alcohol	1000	1015	0.04689	0.005	-1.49901	50.0	Linear	
Isopropyl alcohol	0.03269	0.03096	0.03096	0.005	5.28278	50.0	Averaged	
trans-1,4-Dichloro-2-butene	0.05757	0.06247	0.06247	0.050	-8.50657	50.0	Averaged	
Isobutyl Alcohol	0.06496	0.06779	0.06779	0.005	-4.35265	50.0	Averaged	
Acetonitrile	0.05413	0.05274	0.05274	0.005	2.57209	50.0	Averaged	
Allyl Chloride	1.29812	1.24132	1.24132	0.100	4.37533	50.0	Averaged	
Methacrylonitrile	0.29541	0.28716	0.28716	0.100	2.79335	50.0	Averaged	
Methyl Methacrylate	0.42991	0.43414	0.43414	0.100	-0.98306	50.0	Averaged	
Propionitrile	0.07225	0.06979	0.06979	0.010	3.40031	50.0	Averaged	
n-Hexane	50.0	40.38892	0.33521	0.100	19.22217	50.0	Quadratic	
Acetaldehyde	0.06896	0.08418	0.08418	0.001	-22.07312	50.0	Averaged	
Methyl Acrylate	0.52880	0.54601	0.54601	0.100	-3.25445	50.0	Averaged	
Dimethyl Disulfide	50.0	45.05304	0.33379	0.020	9.89392	50.0	Quadratic	
Chloroprene	0.15947	0.16292	0.16292	0.100	-2.15874	50.0	Averaged	
Ethyl Methacrylate	0.43830	0.44271	0.44271	0.100	-1.00810	50.0	Averaged	
1,2,3-Trimethylbenzene	1.92195	1.82346	1.82346	0.100	5.12459	50.0	Averaged	
Diisopropyl ether	1.39419	1.44062	1.44062	0.100	-3.33046	50.0	Averaged	
Butyl acrylate	0.59144	0.54761	0.54761	0.100	7.41129	50.0	Averaged	
2-Ethylhexyl Acrylate	50.0	45.74219	0.43536	0.100	8.51562	50.0	Quadratic	

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Form 8

Internal Standard Area and RT Summary

Volatiles by EPA 8260

Workorder

HS23061812

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/07/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com

Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder **HS23061812**

Volatiles by EPA 8260

VOA6_440138		Pentafluorobenzene				1,4-Difluorobenzene				Chlorobenzene				1,4-Dichlorobenze			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	X062803.D	445170	#	4.18	#	652801	#	4.97	#	614999	#	7.67	#	353668	#	9.66	#
HS23061812-02	X062816.D	444202		4.18		617186		4.97		566270		7.67		306960		9.66	
HS23061812-05	X062824.D	444192		4.18		623183		4.97		550514		7.67		281492		9.66	
HS23061812-06	X062829.D	433546		4.18		599278		4.97		534467		7.67		282445		9.66	
HS23061812-06	X062828.D	434558		4.18		611067		4.97		538986		7.67		283195		9.66	
HS23061812-07	X062825.D	445839		4.18		621196		4.97		552950		7.67		291376		9.66	
HS23061812-08	X062815.D	475711		4.18		662234		4.97		593384		7.67		318469		9.66	
VBLKW-230628	X062807.D	460197		4.19		633322		4.97		567901		7.67		290927		9.66	
VLCSW-230628	X062805.D	436174		4.18		646299		4.97		604485		7.67		349101		9.66	
MS-ZZZZZZMS	X062811.D	461005		4.18		652167		4.97		590067		7.67		320069		9.66	
ZZZZZZMSD	X062812.D	454651		4.18		639658		4.97		580351		7.67		328228		9.66	

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder **HS23061812**

Volatiles by EPA 8260

VOA9_440247		Pentafluorobenzene				1,4-Difluorobenzene				Chlorobenzene				1,4-Dichlorobenze			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	U062903.D	567832	#	4.82	#	810480	#	5.55	#	799242	#	8.19	#	422195	#	10.17	#
HS23061812-01	U062930.D	601290		4.82		801793		5.56		745427		8.19		373289		10.17	
HS23061812-04	U062919.D	629008		4.82		851474		5.55		770243		8.19		387887		10.17	
VBLKW-230629	U062907.D	641704		4.82		867792		5.55		788040		8.19		391345		10.17	
VLCSW-230629	U062905.D	545168		4.81		800867		5.55		776333		8.19		409506		10.17	
MS-ZZZZZZMS	U062913.D	636356		4.82		858718		5.55		820502		8.19		444652		10.17	
ZZZZZZMSD	U062914.D	638913		4.82		869876		5.55		811369		8.19		429013		10.17	

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder **HS23061812**

Volatiles by EPA 8260

VOA9_440378		Pentafluorobenzene				1,4-Difluorobenzene				Chlorobenzene				1,4-Dichlorobenze			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	U063003.D	570949	#	4.82	#	810639	#	5.55	#	783642	#	8.19	#	411538	#	10.17	#
HS23061812-01	U063009.D	640010		4.81		860739		5.55		793338		8.19		394982		10.17	
VBLKW-230630	U063007.D	642689		4.82		857824		5.55		795802		8.19		405764		10.17	
VLCSW-230629	U063005.D	594047		4.82		842994		5.55		793296		8.19		414373		10.17	
MS-ZZZZZZMS	U063018.D	634087		4.81		854174		5.55		800915		8.19		439477		10.17	
ZZZZZZMSD	U063019.D	635546		4.82		864065		5.55		817921		8.19		448714		10.17	

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

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Analysis Run Log

Volatiles by EPA 8260

Workorder

HS23061812

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/07/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS23061812

RunID
VOA6-438076

Volatiles by EPA 8260

Run ID VOA6_438076 **Start Date** 06/15/23 **EndDate** 06/15/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
10:54	BFB	TUNE	BFB	X061501.D	06/15/23	1
11:15	VSTD000.25	ICAL1	VSTD000.25	X061502.D	06/15/23	1
11:36	VSTD000.5	ICAL2	VSTD000.5	X061503.D	06/15/23	1
12:18	VSTD001	ICAL3	VSTD001	X061504.D	06/15/23	1
12:39	VSTD002	ICAL4	VSTD002	X061505.D	06/15/23	1
13:00	VSTD005	ICAL5	VSTD005	X061506.D	06/15/23	1
13:21	VSTD020	ICAL6	VSTD020	X061507.D	06/15/23	1
13:42	VSTD050	ICAL7	VSTD050	X061508.D	06/15/23	1
14:03	VSTD100	ICAL8	VSTD100	X061509.D	06/15/23	1
14:24	VSTD150	ICAL9	VSTD150	X061510.D	06/15/23	1
14:45	VSTD200	ICAL	VSTD200	X061511.D	06/15/23	1
15:47	CCV	ICV	CCV	X061514.D	06/15/23	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS23061812

RunID
VOA6-440138

Volatiles by EPA 8260

Run ID VOA6_440138 **Start Date** 06/28/23 **EndDate** 06/28/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
11:35	BFB	TUNE	BFB	X062801.D	06/28/23	1
12:17	CCV	CCV	CCV	X062803.D	06/28/23	1
12:38	CCB	CCB	CCB	X062804.D	06/28/23	1
12:59	VLCSW-230628	LCS	VLCSW-230628	X062805.D	06/28/23	1
13:41	VBLKW-230628	MBLK	VBLKW-230628	X062807.D	06/28/23	1
14:02	HS23061821-02	SAMP	ZZZZZZZZZZ	X062808.D	06/28/23	1
14:23	HS23061712-02	SAMP	ZZZZZZZZZZ	X062809.D	06/28/23	1
14:44	HS23061712-05	SAMP	ZZZZZZZZZZ	X062810.D	06/28/23	1
15:06	HS23061821-02MS	MS	ZZZZZZMS	X062811.D	06/28/23	1
15:27	HS23061821-02MSD	MSD	ZZZZZZMSD	X062812.D	06/28/23	1
15:48	HS23061712-01	SAMP	ZZZZZZZZZZ	X062813.D	06/28/23	100
16:09	HS23061821-11	SAMP	ZZZZZZZZZZ	X062814.D	06/28/23	1
16:30	HS23061812-08	SAMP	Trip Blank	X062815.D	06/28/23	1
16:51	HS23061812-02	SAMP	18CPTMW06_062423	X062816.D	06/28/23	1
17:12	HS23061821-03	SAMP	ZZZZZZZZZZ	X062817.D	06/28/23	1
17:33	HS23061821-04	SAMP	ZZZZZZZZZZ	X062818.D	06/28/23	1
17:54	HS23061821-05	SAMP	ZZZZZZZZZZ	X062819.D	06/28/23	1
18:15	HS23061821-07	SAMP	ZZZZZZZZZZ	X062820.D	06/28/23	1
18:36	HS23061821-08	SAMP	ZZZZZZZZZZ	X062821.D	06/28/23	1
18:57	HS23061821-09	SAMP	ZZZZZZZZZZ	X062822.D	06/28/23	1
19:18	HS23061821-10	SAMP	ZZZZZZZZZZ	X062823.D	06/28/23	1
19:39	HS23061812-05	SAMP	MW6_062623	X062824.D	06/28/23	1
20:00	HS23061812-07	SAMP	109_062623	X062825.D	06/28/23	10
20:21	HS23061821-01	SAMP	ZZZZZZZZZZ	X062826.D	06/28/23	1
20:42	HS23061821-06	SAMP	ZZZZZZZZZZ	X062827.D	06/28/23	10
21:03	HS23061812-06	SAMP	MW21_062623	X062828.D	06/28/23	5
21:24	HS23061812-06	SAMP	MW21_062623	X062829.D	06/28/23	50
21:45	CCV-END	CCV_END	CCV-END	X062830.D	06/28/23	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS23061812

RunID
VOA9-437296

Volatiles by EPA 8260

Run ID VOA9_437296 **Start Date** 06/06/23 **EndDate** 06/06/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
10:53	BFB	TUNE	BFB	U060601.D	06/06/23	1
11:15	VSTD000.25	ICAL1	VSTD000.25	U060602.D	06/06/23	1
11:37	VSTD000.5	ICAL2	VSTD000.5	U060603.D	06/06/23	1
13:06	VSTD005	ICAL5	VSTD005	U060606.D	06/06/23	1
13:28	VSTD001	ICAL3	VSTD001	U060607.D	06/06/23	1
13:50	VSTD002	ICAL4	VSTD002	U060608.D	06/06/23	1
14:13	VSTD020	ICAL6	VSTD020	U060609.D	06/06/23	1
14:35	VSTD050	ICAL7	VSTD050	U060610.D	06/06/23	1
14:57	VSTD100	ICAL8	VSTD100	U060611.D	06/06/23	1
15:19	VSTD150	ICAL9	VSTD150	U060612.D	06/06/23	1
15:41	VSTD200	ICAL	VSTD200	U060613.D	06/06/23	1
16:48	CCV	ICV	CCV	U060616.D	06/06/23	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS23061812

RunID
VOA9-440247

Volatiles by EPA 8260

Run ID VOA9_440247 **Start Date** 06/29/23 **EndDate** 06/29/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
10:25	BFB	TUNE	BFB	U062901.D	06/29/23	1
11:09	CCV	CCV	CCV	U062903.D	06/29/23	1
11:32	CCB	CCB	CCB	U062904.D	06/29/23	1
11:54	VLCSW-230629	LCS	VLCSW-230629	U062905.D	06/29/23	1
12:39	VBLKW-230629	MBLK	VBLKW-230629	U062907.D	06/29/23	1
13:01	HS23061900-02	SAMP	ZZZZZZZZZZ	U062908.D	06/29/23	1
14:03	HS23061825-04	SAMP	ZZZZZZZZZZ	U062910.D	06/29/23	25
14:26	HS23061825-03	SAMP	ZZZZZZZZZZ	U062911.D	06/29/23	50
14:48	HS23061825-03	SAMP	ZZZZZZZZZZ	U062912.D	06/29/23	10
15:10	HS23061825-03MS	MS	ZZZZZZMS	U062913.D	06/29/23	50
15:33	HS23061825-03MSD	MSD	ZZZZZZMSD	U062914.D	06/29/23	50
15:55	HS23061825-09	SAMP	ZZZZZZZZZZ	U062915.D	06/29/23	10
16:18	HS23061712-05	SAMP	ZZZZZZZZZZ	U062916.D	06/29/23	200
16:40	HS23061821-01	SAMP	ZZZZZZZZZZ	U062917.D	06/29/23	5
17:02	HS23061821-06	SAMP	ZZZZZZZZZZ	U062918.D	06/29/23	50
17:25	HS23061812-04	SAMP	129_062623	U062919.D	06/29/23	5
18:09	HS23061925-02	SAMP	ZZZZZZZZZZ	U062921.D	06/29/23	50
18:32	HS23061925-03	SAMP	ZZZZZZZZZZ	U062922.D	06/29/23	100
18:54	HS23061925-20	SAMP	ZZZZZZZZZZ	U062923.D	06/29/23	5
19:17	HS23061925-05	SAMP	ZZZZZZZZZZ	U062924.D	06/29/23	25
20:01	HS23061925-07	SAMP	ZZZZZZZZZZ	U062926.D	06/29/23	5
20:46	HS23061925-08	SAMP	ZZZZZZZZZZ	U062928.D	06/29/23	25
21:31	HS23061812-01	SAMP	MW22_062423	U062930.D	06/29/23	1
21:53	CCV-END	CCV_END	CCV-END	U062931.D	06/29/23	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS23061812

RunID
VOA9-440378

Volatiles by EPA 8260

Run ID VOA9_440378 **Start Date** 06/30/23 **EndDate** 06/30/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
10:37	BFB	TUNE	BFB	U063001.D	06/30/23	1
11:21	CCV	CCV	CCV	U063003.D	06/30/23	1
11:44	CCB	CCB	CCB	U063004.D	06/30/23	1
12:06	VLCSW-230629	LCS	VLCSW-230629	U063005.D	06/30/23	1
12:50	VBLKW-230630	MBLK	VBLKW-230630	U063007.D	06/30/23	1
13:13	HS23061900-01	SAMP	ZZZZZZZZZZ	U063008.D	06/30/23	1
13:35	HS23061812-01	SAMP	MW22_062423	U063009.D	06/30/23	5
13:58	HS23061925-22	SAMP	ZZZZZZZZZZ	U063010.D	06/30/23	25
14:20	HS23061925-09	SAMP	ZZZZZZZZZZ	U063011.D	06/30/23	5
14:42	HS23061925-12	SAMP	ZZZZZZZZZZ	U063012.D	06/30/23	10
15:05	HS23061925-15	SAMP	ZZZZZZZZZZ	U063013.D	06/30/23	10
15:27	HS23061925-21	SAMP	ZZZZZZZZZZ	U063014.D	06/30/23	10
15:49	HS23061925-10	SAMP	ZZZZZZZZZZ	U063015.D	06/30/23	50
16:12	HS23061925-11	SAMP	ZZZZZZZZZZ	U063016.D	06/30/23	100
16:34	HS23061925-22	SAMP	ZZZZZZZZZZ	U063017.D	06/30/23	250
16:57	HS23061925-22MS	MS	ZZZZZZMS	U063018.D	06/30/23	250
17:19	HS23061925-22MSD	MSD	ZZZZZZMSD	U063019.D	06/30/23	250
17:41	HS23061925-09	SAMP	ZZZZZZZZZZ	U063020.D	06/30/23	25
18:04	HS23061925-23	SAMP	ZZZZZZZZZZ	U063021.D	06/30/23	10
18:26	HS23061925-07	SAMP	ZZZZZZZZZZ	U063022.D	06/30/23	1
18:49	HS23061925-13	SAMP	ZZZZZZZZZZ	U063023.D	06/30/23	1
19:11	HS23061925-14	SAMP	ZZZZZZZZZZ	U063024.D	06/30/23	1
19:33	HS23061925-12	SAMP	ZZZZZZZZZZ	U063025.D	06/30/23	1
19:55	CCV-END	CCV_END	CCV-END	U063026.D	06/30/23	1

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right solutions.
right partner.

Raw Data VOA6 438076

Volatiles by EPA 8260

Workorder

HS23061812

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/07/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061501.D Page 1
Report Date: 15-Jun-2023 11:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061501.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 15-JUN-2023 10:54
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\bfb.m
Meth Date : 14-Mar-2023 15:45 Linh.Pham 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: NAHSTW7051

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	
8.691	8.889	(0.000)	95	91504			0.00- 100.00	100.00
8.691	8.889	(0.000)	50	17024			15.00- 40.00	18.60
8.691	8.889	(0.000)	75	44272			30.00- 60.00	48.38
8.691	8.889	(0.000)	96	6495			5.00- 9.00	7.10
8.691	8.889	(0.000)	173	533			0.00- 2.00	0.74
8.691	8.889	(0.000)	174	72064			50.00- 0.00	78.76
8.691	8.889	(0.000)	175	5792			5.00- 9.00	8.04
8.691	8.889	(0.000)	176	71408			95.00- 101.00	99.09
8.691	8.889	(0.000)	177	5330			5.00- 9.00	7.46

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.60
75	30.00 - 60.00% of mass 95	48.38
96	5.00 - 9.00% of mass 95	7.10
173	Less than 2.00% of mass 174	0.58 (0.74)
174	Greater than 50.00% of mass 95	78.76
175	5.00 - 9.00% of mass 174	6.33 (8.04)
176	95.00 - 101.00% of mass 174	78.04 (99.09)
177	5.00 - 9.00% of mass 176	5.82 (7.46)

Data File: X061501.D
Spectrum: Scan 2160 (8.68)
Location of Maximum: 95.00
Number of points: 91

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	732	62.00	3604	92.10	1898	141.90	68
37.10	4114	63.00	2982	93.00	3456	143.00	777
38.10	3477	63.90	141	94.00	11246	143.90	94
39.10	1745	64.80	123	95.00	91504	147.70	291
40.00	1863	66.90	341	96.00	6495	148.80	125
41.10	52	68.00	9377	96.90	224	149.70	51
42.00	50	69.10	8186	104.00	204	151.90	69
42.90	82	70.00	449	104.80	127	152.80	64
44.10	1699	72.00	505	106.00	388	154.80	170
45.00	935	73.00	3827	106.90	76	156.90	174
46.00	105	74.10	13173	109.90	113	157.70	64
47.10	1295	75.10	44272	110.80	95	158.80	71
48.00	358	76.00	3684	115.10	123	169.90	113
49.00	3460	76.90	535	115.90	365	172.80	533
50.10	17024	77.90	379	116.90	632	173.90	72064
51.10	5327	78.90	2312	117.90	274	174.90	5792
52.00	282	80.00	561	118.90	458	175.90	71408
54.80	200	80.90	2487	128.00	326	176.90	5330
56.00	1410	81.90	556	128.80	272	178.00	84
57.00	1995	86.00	91	130.00	338	186.00	171
57.90	156	86.90	3763	135.00	109	191.00	88
59.90	837	87.90	3752	136.90	179	262.00	65
61.00	4172	90.90	273	140.90	1058		

Data File: \\nahstws005\target\chem\voa6.i\x230615.b\x061501.d Page 1

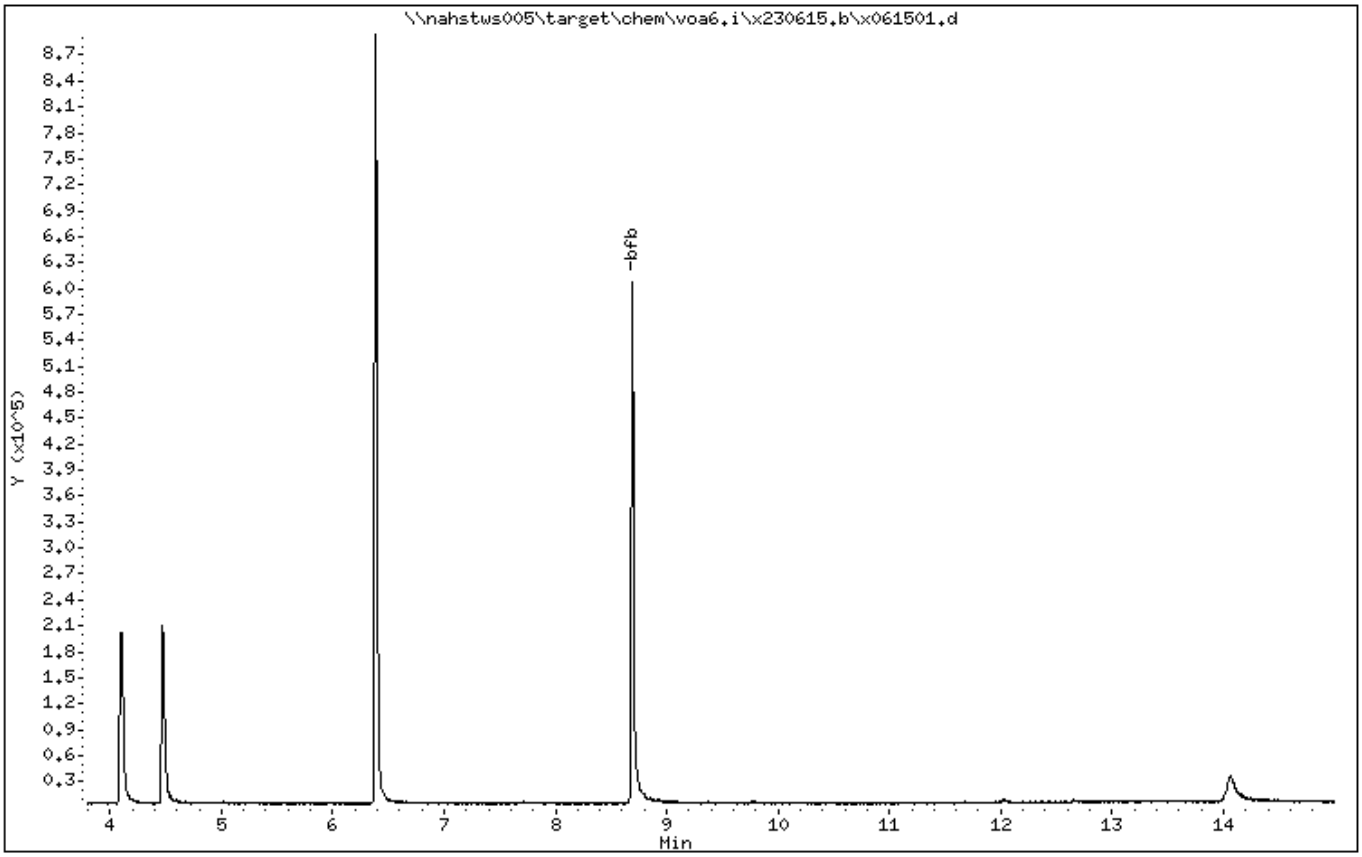
Date : 15-JUN-2023 10:54

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



Data File : \\nahstws005\target\chem\voa6.i\x230615.b\x061501.d
Inj Date : 15-JUN-2023 10:54
InstruID : voa6.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061502.D Page 1
Report Date: 20-Jun-2023 18:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061502.D
Lab Smp Id: VSTD000.25 Client Smp ID: VSTD000.25
Inj Date : 15-JUN-2023 11:15
Operator : PC Inst ID: voa6.i
Smp Info : VSTD000.25;VSTD000.25;1;1;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 11:15 Cal File: X061502.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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

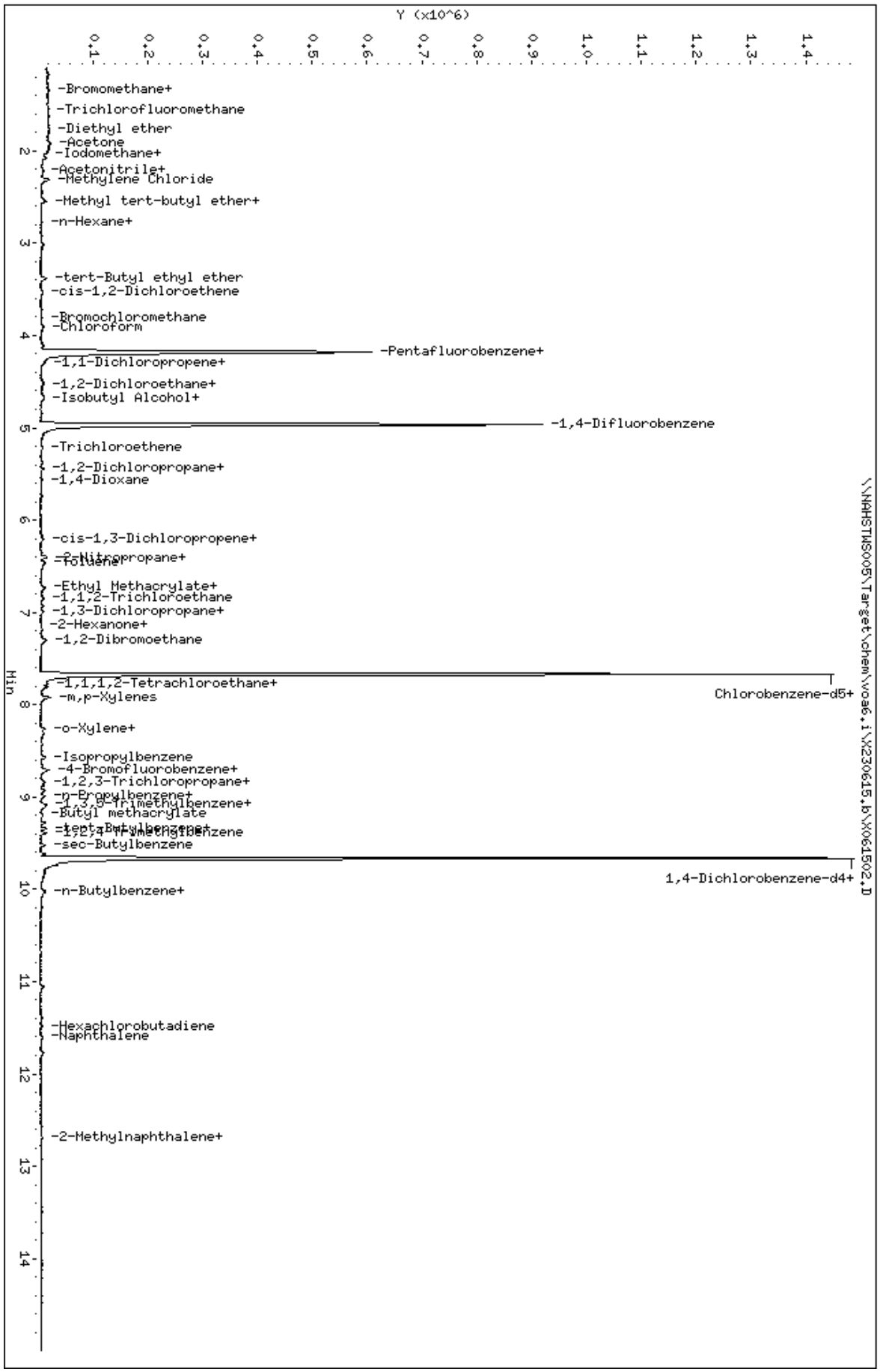
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.181	4.181	(1.000)	494932	50.0000	
	6 Bromomethane	94	1.343	1.344	(0.321)	1702	0.25000	0.57
	10 Acetone	43	1.977	1.973	(0.473)	3259	0.50000	2.26
	13 Acetonitrile	39	2.206	2.202	(0.528)	1535	2.50000	3.19(a)
	15 Iodomethane	142	2.029	2.030	(0.485)	1365	0.50000	2.53(T)
	17 Methylene Chloride	84	2.307	2.307	(0.552)	5303	0.25000	0.96
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	766330	50.0000	
	42 1,2-Dichloropropane	63	5.441	5.437	(1.096)	1532	0.25000	0.29(a)
	43 2-Nitropropane	43	6.352	5.966	(1.519)	2352	0.25000	1.76(Ta)
	45 4-Methyl-2-Pentanone	43	6.352	6.322	(0.828)	2352	0.50000	0.52(a)
	46 cis-1,3-Dichloropropene	75	6.175	6.153	(1.244)	2487	0.25000	0.28(a)
*	47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	699301	50.0000	
$	48 Toluene-d8	98	6.400	6.386	(0.835)	9354	0.25000	0.52(a)
	49 Ethyl Methacrylate	69	6.738	6.708	(1.357)	997	0.25000	0.18(a)
	50 Toluene	91	6.464	6.445	(0.843)	6514	0.25000	0.31(a)
	52 2-Hexanone	43	7.139	7.083	(0.931)	730	0.50000	0.24(Ta)
	53 1,1,2-Trichloroethane	83	6.843	6.835	(0.892)	1411	0.25000	0.35(a)
	54 1,3-Dichloropropane	76	6.993	6.978	(0.912)	3023	0.25000	0.37(a)
	55 Dibromochloromethane	129	7.184	7.173	(0.937)	1999	0.25000	0.35(a)
	56 Tetrachloroethene	164	6.940	6.925	(0.905)	1096	0.25000	0.25(a)
	57 1,2-Dibromoethane	107	7.281	7.259	(0.950)	1818	0.25000	0.35(a)

58 1-Chlorohexane	55	7.716	7.694 (1.554)	1009	0.25000	0.21(a)
59 Chlorobenzene	112	7.697	7.690 (1.004)	4842	0.25000	0.34(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
60	1,1,1,2-Tetrachloroethane	131	7.776	7.773	(1.014)	1838	0.25000	0.35(a)
61	Ethylbenzene	106	7.810	7.799	(1.019)	2138	0.25000	0.29(a)
62	m,p-Xylenes	106	7.922	7.900	(1.033)	4853	0.50000	0.54(a)
63	o-Xylene	106	8.260	8.237	(1.077)	2870	0.25000	0.32(a)
64	Styrene	104	8.301	8.256	(1.083)	4358	0.25000	0.29(a)
67	Isopropylbenzene	105	8.567	8.560	(1.117)	6739	0.25000	0.30(a)
$ 69	4-Bromofluorobenzene	95	8.710	8.687	(1.136)	6918	0.25000	0.48(a)
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	377299	50.0000	
71	1,2,3-Trichloropropane	75	8.878	8.863	(0.919)	1462	0.25000	0.30(a)
73	n-Propylbenzene	91	8.927	8.908	(0.924)	7862	0.25000	0.31(a)
74	Bromobenzene	156	8.822	8.803	(0.913)	2206	0.25000	0.35(a)
75	1,3,5-Trimethylbenzene	105	9.077	9.066	(0.939)	5834	0.25000	0.32(a)
76	2-Chlorotoluene	91	8.991	8.972	(0.931)	6413	0.25000	0.40(a)
77	4-Chlorotoluene	91	9.103	9.070	(0.942)	6038	0.25000	0.34(a)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	4660	0.25000	0.30(a)
79	1,2,4-Trimethylbenzene	105	9.392	9.377	(0.972)	6265	0.25000	0.34(a)
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	6772	0.25000	0.31(a)
82	p-Isopropyltoluene	119	9.658	9.647	(1.000)	5545	0.25000	0.29(a)
83	1,3-Dichlorobenzene	146	9.609	9.602	(0.995)	3815	0.25000	0.34(a)
84	1,4-Dichlorobenzene	146	9.688	9.681	(1.003)	4582	0.25000	0.39(a)
87	n-Butylbenzene	91	10.033	9.992	(1.038)	2862	0.25000	0.17(a)
88	1,2-Dichlorobenzene	146	10.014	9.992	(1.036)	2957	0.25000	0.27(a)
91	Hexachlorobutadiene	225	11.491	11.476	(1.189)	911	0.25000	0.26(a)
92	Naphthalene	128	11.607	11.540	(1.201)	3349	0.25000	0.19(a)
141	Cyclohexane	56	4.177	4.121	(0.999)	7819	0.25000	1.23(a)
147	Methylcyclohexane	55	5.377	5.381	(1.083)	1111	0.25000	0.10(a)
135	1,4-Dioxane	88	5.624	5.598	(1.345)	279	5.00000	4.65(aM)
136	n-Hexane	57	2.772	2.776	(0.663)	805	0.25000	(Ta)
139	Diethyl ether	59	1.767	1.760	(0.423)	1156	0.25000	0.37(a)
149	Isopropyl alcohol	45	2.104	2.093	(0.503)	1938	5.00000	6.90(T)
160	2-Methylnaphthalene	142	12.694	12.634	(1.314)	824	0.25000	0.11(a)
166	1,2,3-Trimethylbenzene	105	9.740	9.729	(1.008)	6314	0.25000	0.35(a)
174	tert-Amyl methyl ether	73	4.669	4.665	(1.117)	6862	0.25000	0.43(a)
175	tert-Butyl ethyl ether	59	3.379	3.379	(0.808)	5136	0.25000	0.33(a)
176	tert-Amyl alcohol	59	4.639	4.612	(1.109)	2691	5.00000	6.47
151	4-Methyl-2-pentanol	45	6.730	6.708	(1.356)	7887	5.00000	6.47
180	1-Methylnaphthalene	142	12.694	12.634	(1.314)	824	0.25000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.279)	1108	0.25000	0.27(a)
162	Butyl acrylate	55	8.323	8.249	(1.086)	733	0.25000	0.61(a)
164	Dicyclopentadiene	66	9.677	9.681	(1.002)	13171	0.25000	0.62(a)
M 94	1,2-Dichloroethylene (total)	96				2586	0.50000	(a)
134	Cyclohexanone	55	8.653	8.642	(0.896)	2230	5.00000	(a)
150	Allyl alcohol	57	2.772	2.772	(0.663)	805	5.00000	(a)
200	Dimethyl Disulfide	94	6.209	6.194	(0.810)	3528	0.25000	0.34(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Sample Info: VSTD000.25;VSTD000.25;1;1;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

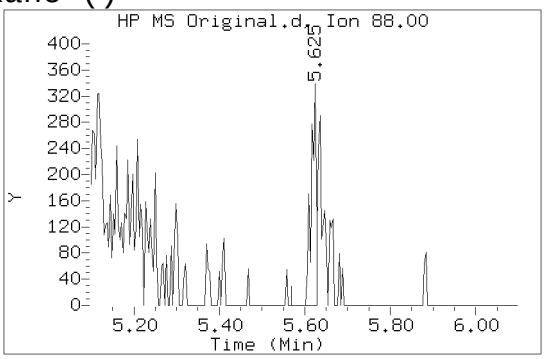
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061502.D
Inj Date : 15-JUN-2023 11:15
InstruID : voa6.i
LabSampID : VSTD000.25

1,4-Dioxane ()

Reason Code:

BEFORE

MASS
88
AREA
279
HEIGHT
339
20-Jun-2023
18:22
linh
pham



AFTER

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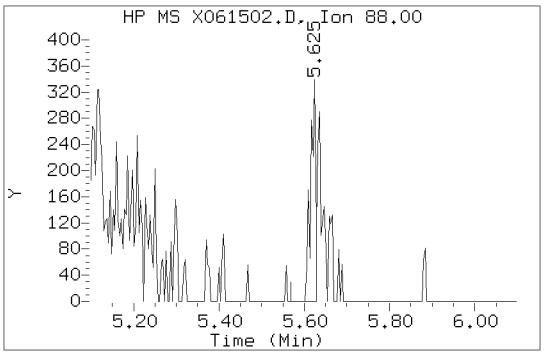

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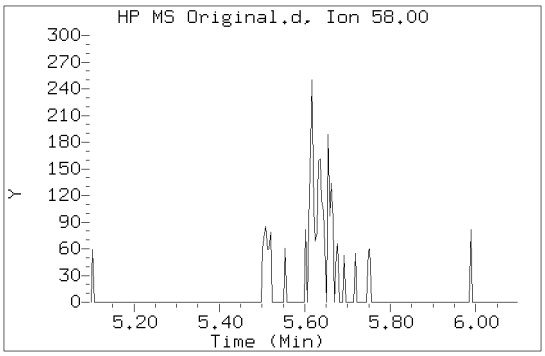

AFTER

MASS
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AREA
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20-Jun-2023
18:24
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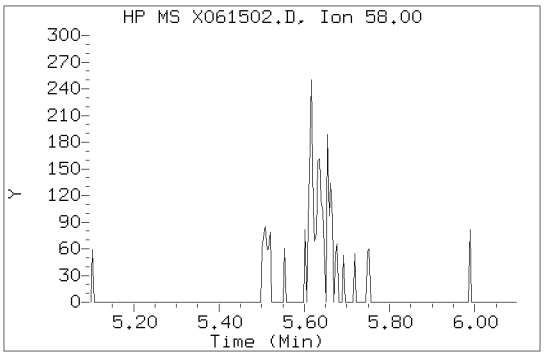


Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D Page 1
Report Date: 05-Jul-2023 12:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Lab Smp Id: VSTD000.5 Client Smp ID: VSTD000.5
Inj Date : 15-JUN-2023 11:36
Operator : PC Inst ID: voa6.i
Smp Info : VSTD000.5;VSTD000.5;1;2;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 11:36 Cal File: X061503.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.181	4.181	(1.000)	480661	50.0000	
2	Dichlorodifluoromethane	85	0.973	0.973	(0.233)	2615	0.50000	0.95(M)
3	Chloromethane	50	1.081	1.081	(0.259)	3301	0.50000	1.66(M)
4	Propionitrile	54	3.709	3.709	(0.887)	2622	5.00000	4.51(aM)
5	Vinyl Chloride	62	1.145	1.145	(0.274)	2917	0.50000	0.57(M)
6	Bromomethane	94	1.344	1.344	(0.321)	1612	0.50000	0.55(M)
7	Chloroethane	64	1.407	1.407	(0.337)	1789	0.50000	0.57(M)
8	Trichlorofluoromethane	101	1.561	1.561	(0.373)	3392	0.50000	0.56(M)
9	Acrolein	56	1.445	1.445	(0.346)	343	1.00000	1.15(aM)
11	1,1-Dichloroethene	96	1.917	1.917	(0.459)	2206	0.50000	0.58(M)
12	Isobutyl Alcohol	43	4.702	4.702	(1.125)	5465	10.0000	8.71(aM)
13	Acetonitrile	39	2.213	2.213	(0.529)	2269	5.00000	4.86(aM)
14	Allyl Chloride	41	2.217	2.217	(0.530)	5619	0.50000	0.53(a)
15	Iodomethane	142	2.026	2.026	(0.485)	2984	1.00000	2.79(TM)
16	Acrylonitrile	53	2.584	2.584	(0.618)	1586	1.00000	1.03(M)
17	Methylene Chloride	84	2.307	2.307	(0.552)	3169	0.50000	0.59(M)
18	Methyl tert-butyl ether	73	2.543	2.543	(0.608)	7284	0.50000	0.55
19	Carbon Disulfide	76	2.075	2.075	(0.496)	15259	1.00000	1.13(M)
20	trans-1,2-Dichloroethene	96	2.539	2.539	(0.607)	2631	0.50000	0.58
21	Vinyl Acetate	43	3.046	3.046	(0.728)	11055	1.00000	0.91(aM)
22	1,1-Dichloroethane	63	2.926	2.926	(0.700)	4641	0.50000	0.57(M)

23 Chloroprene	53	1.775	1.775 (0.425)	937	0.50000	0.58(aM)
24 2-Butanone	43	3.683	3.683 (0.881)	1517	1.00000	0.95(aM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
25	Methacrylonitrile	41	3.870	3.870	(0.926)	2167	0.50000	0.54(aM)
26	2,2-Dichloropropane	77	3.514	3.514	(0.840)	4078	0.50000	0.63(M)
27	cis-1,2-Dichloroethene	96	3.537	3.537	(0.846)	3046	0.50000	0.58(M)
28	Chloroform	83	3.908	3.908	(0.935)	5129	0.50000	0.58(M)
29	Bromochloromethane	128	3.807	3.807	(0.910)	1516	0.50000	0.54(M)
31	1,1,1-Trichloroethane	97	4.076	4.076	(0.975)	4137	0.50000	0.58
32	1,1-Dichloropropene	75	4.283	4.283	(0.863)	3575	0.50000	0.57(M)
33	1,2-Dichloroethane	62	4.582	4.582	(0.923)	3689	0.50000	0.59
34	Carbon Tetrachloride	117	4.268	4.268	(0.860)	3561	0.50000	0.59
* 36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	737190	50.0000	
37	Benzene	78	4.519	4.519	(0.910)	10562	0.50000	0.55(M)
38	Trichloroethene	130	5.220	5.220	(1.051)	2866	0.50000	0.54(a)
39	Bromodichloromethane	83	5.726	5.726	(1.153)	3787	0.50000	0.56(aM)
40	Methyl Methacrylate	41	5.643	5.643	(1.350)	1972	0.50000	0.52(aM)
41	2-Chloroethylvinyl ether	63	6.093	6.093	(1.227)	1563	1.00000	0.86(aM)
42	1,2-Dichloropropane	63	5.445	5.445	(1.097)	2801	0.50000	0.56(aM)
43	2-Nitropropane	43	5.977	5.977	(1.429)	747	0.50000	0.57(aM)
44	Dibromomethane	93	5.568	5.568	(1.122)	1589	0.50000	0.50(aM)
45	4-Methyl-2-Pentanone	43	6.348	6.348	(0.828)	4230	1.00000	0.95(a)
46	cis-1,3-Dichloropropene	75	6.161	6.161	(1.241)	4543	0.50000	0.54(a)
* 47	Chlorobenzene-d5	117	7.668	7.668	(1.000)	687572	50.0000	
$ 48	Toluene-d8	98	6.401	6.401	(0.835)	9971	0.50000	0.57(a)
49	Ethyl Methacrylate	69	6.813	6.813	(1.372)	3142	0.50000	0.52(aM)
50	Toluene	91	6.461	6.461	(0.843)	11582	0.50000	0.57(aM)
51	trans-1,3-Dichloropropene	75	6.708	6.708	(1.351)	3492	0.50000	0.50(a)
52	2-Hexanone	43	7.117	7.117	(0.928)	2386	1.00000	0.80(a)
53	1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	2237	0.50000	0.56(aM)
54	1,3-Dichloropropane	76	6.989	6.989	(0.912)	4459	0.50000	0.56(aM)
55	Dibromochloromethane	129	7.184	7.184	(0.937)	3103	0.50000	0.55(a)
56	Tetrachloroethene	164	6.929	6.929	(0.904)	2291	0.50000	0.55(aM)
57	1,2-Dibromoethane	107	7.274	7.274	(0.949)	2925	0.50000	0.58(a)
58	1-Chlorohexane	55	7.705	7.705	(1.552)	2351	0.50000	0.52(aM)
59	Chlorobenzene	112	7.694	7.694	(1.003)	8017	0.50000	0.58(aM)
60	1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	2861	0.50000	0.55(a)
61	Ethylbenzene	106	7.806	7.806	(1.018)	3993	0.50000	0.56(a)
62	m,p-Xylenes	106	7.915	7.915	(1.032)	9595	1.00000	1.09(aM)
63	o-Xylene	106	8.252	8.252	(1.076)	4730	0.50000	0.54(aM)
64	Styrene	104	8.297	8.297	(1.082)	7646	0.50000	0.53(aM)
66	Bromoform	173	8.417	8.417	(1.098)	2211	0.50000	0.56(Ta)
67	Isopropylbenzene	105	8.567	8.567	(1.117)	12451	0.50000	0.57(a)
68	1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	3818	0.50000	0.57(aM)
$ 69	4-Bromofluorobenzene	95	8.706	8.706	(1.135)	7971	0.50000	0.66(a)
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	376739	50.0000	
71	1,2,3-Trichloropropane	75	8.878	8.878	(0.919)	2689	0.50000	0.56(a)
72	trans-1,4-Dichloro-2-butene	53	8.935	8.935	(1.165)	838	0.50000	0.50(aM)
73	n-Propylbenzene	91	8.927	8.927	(0.924)	14359	0.50000	0.57(a)
74	Bromobenzene	156	8.826	8.826	(0.913)	3535	0.50000	0.57(aM)
75	1,3,5-Trimethylbenzene	105	9.073	9.073	(0.939)	10589	0.50000	0.58(aM)
76	2-Chlorotoluene	91	8.983	8.983	(0.930)	8949	0.50000	0.56(aM)
77	4-Chlorotoluene	91	9.092	9.092	(0.941)	10012	0.50000	0.57(aM)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	8719	0.50000	0.57(aM)
79	1,2,4-Trimethylbenzene	105	9.388	9.388	(0.972)	10657	0.50000	0.58(aM)

81 sec-Butylbenzene	105	9.519	9.519 (0.985)	12512	0.50000	0.58(aM)
82 p-Isopropyltoluene	119	9.658	9.658 (1.000)	10432	0.50000	0.55(a)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D Page 3
Report Date: 05-Jul-2023 12:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
83	1,3-Dichlorobenzene	146	9.613	9.613	(0.995)	6249	0.50000	0.57(a)
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	6645	0.50000	0.56(a)
86	Benzyl Chloride	91	9.834	9.834	(1.283)	6300	0.50000	0.55(aM)
87	n-Butylbenzene	91	10.018	10.018	(1.037)	8377	0.50000	0.52(aM)
88	1,2-Dichlorobenzene	146	10.011	10.011	(1.036)	6205	0.50000	0.57(a)
89	1,2-Dibromo-3-Chloropropane	155	10.689	10.689	(1.106)	562	0.50000	0.77(aM)
90	1,2,4-Trichlorobenzene	180	11.371	11.371	(1.177)	3888	0.50000	0.51(a)
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	1714	0.50000	0.50(a)
92	Naphthalene	128	11.596	11.596	(1.200)	9500	0.50000	0.55(aM)
93	1,2,3-Trichlorobenzene	180	11.769	11.769	(1.218)	3790	0.50000	0.54(a)
146	Methyl acetate	43	2.255	2.255	(0.539)	1514	0.50000	0.53(aM)
138	Freon TF	101	1.917	1.917	(0.459)	2188	0.50000	0.67(aM)
141	Cyclohexane	56	4.129	4.129	(0.987)	3419	0.50000	0.55(aMH)
142	Tetrahydrofuran	42	3.874	3.874	(0.926)	724	1.00000	1.03(aM)
147	Methylcyclohexane	55	5.373	5.373	(1.082)	4698	0.50000	0.45(aM)
135	1,4-Dioxane	88	5.621	5.621	(1.344)	539	10.0000	9.25(aM)
132	n-Butanol	56	5.373	5.373	(1.285)	934	10.0000	72.06(aM)
131	Methyl Acrylate	55	3.784	3.784	(0.905)	1944	0.50000	0.49(aM)
133	Ethyl Acrylate	55	5.448	5.448	(1.303)	4696	0.50000	2.77(M)
136	n-Hexane	57	2.779	2.779	(0.665)	2120	0.50000	0.26(aM)
139	Diethyl ether	59	1.764	1.764	(0.422)	1591	0.50000	0.52(aM)
148	Tert-butyl alcohol	59	2.435	2.435	(0.582)	5403	10.0000	10.94(M)
149	Isopropyl alcohol	45	2.101	2.101	(0.502)	2910	10.0000	10.68
156	Diisopropyl ether	45	3.012	3.012	(0.720)	8201	0.50000	0.57(Ta)
160	2-Methylnaphthalene	142	12.668	12.668	(1.311)	3514	0.50000	0.47(a)
166	1,2,3-Trimethylbenzene	105	9.741	9.741	(1.008)	9163	0.50000	0.51(a)
167	Ethanol	45	1.700	1.700	(0.407)	492	10.0000	10.70(M)
172	tert-Butyl formate	59	4.635	4.635	(1.108)	3776	1.00000	0.95(aM)
173	3,3-Dimethyl-1-butanol	57	7.293	7.293	(0.951)	6294	10.0000	11.19(M)
174	tert-Amyl methyl ether	73	4.669	4.669	(1.117)	8758	0.50000	0.56(aM)
175	tert-Butyl ethyl ether	59	3.383	3.383	(0.809)	8683	0.50000	0.59(a)
176	tert-Amyl alcohol	59	4.635	4.635	(1.108)	4487	10.0000	11.11(M)
151	4-Methyl-2-pentanol	45	6.727	6.727	(1.355)	12489	10.0000	10.65
180	1-Methylnaphthalene	142	12.668	12.668	(1.311)	3514	0.50000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.279)	2248	0.50000	0.56(aM)
152	Amyl alcohol	42	7.015	7.015	(0.915)	1185	10.0000	9.25(M)
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	4041	0.50000	0.58(M)
161	3-Methyl-1-butanol	55	7.004	7.004	(0.913)	1270	10.0000	44.67(M)
162	Butyl acrylate	55	8.297	8.297	(1.082)	1843	0.50000	0.72(a)
164	Dicyclopentadiene	66	9.681	9.681	(1.002)	12411	0.50000	0.58(aM)
182	Epichlorohydrin	57	6.127	6.127	(1.234)	1097	2.00000	2.48(aM)
M 94	1,2-Dichloroethylene (total)	96				5677	1.00000	1.17(a)
M 95	Xylenes (total)	106				14325	1.50000	1.63(a)
130	Ethyl Acetate	43	3.717	3.717	(0.889)	2678	0.50000	0.54(aM)
134	Cyclohexanone	55	8.657	8.657	(0.896)	2832	10.0000	0.47(a)
185	Isoprene	39	1.779	1.779	(0.425)	790	0.50000	0.60(a)
188	Isopropyl acetate	43	4.702	4.702	(0.947)	7126	0.50000	0.55(aM)
187	n-Amyl acetate	43	8.489	8.489	(1.107)	4951	0.50000	0.53(aM)
189	n-Butyl acetate	43	7.244	7.244	(0.945)	3227	0.50000	0.43(aM)
150	Allyl alcohol	57	2.779	2.779	(0.665)	2756	10.0000	7.04(M)
195	Methyl Amyl Ketone	43	8.425	8.425	(1.099)	4519	0.50000	0.44(aM)
200	Dimethyl Disulfide	94	6.209	6.209	(0.810)	5577	0.50000	0.54(a)

205 2-Ethylhexyl Acrylate	55	11.615	11.615 (1.202)	2087	0.50000	1.56(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061504.D
Lab Smp Id: VSTD001 Client Smp ID: VSTD001
Inj Date : 15-JUN-2023 12:18
Operator : PC Inst ID: voa6.i
Smp Info : VSTD001;VSTD001;1;3;
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 12:18 Cal File: X061504.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.181	4.181	(1.000)	476411	50.0000	
2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	4505	1.00000	1.42
3	Chloromethane	50	1.081	1.081	(0.259)	5922	1.00000	2.17
4	Propionitrile	54	3.694	3.694	(0.883)	5974	10.0000	10.36(aM)
5	Vinyl Chloride	62	1.145	1.145	(0.274)	5221	1.00000	1.04
6	Bromomethane	94	1.347	1.347	(0.322)	3161	1.00000	1.10(M)
7	Chloroethane	64	1.403	1.403	(0.336)	3224	1.00000	1.05
8	Trichlorofluoromethane	101	1.565	1.565	(0.374)	6281	1.00000	1.05
9	Acrolein	56	1.452	1.452	(0.347)	538	2.00000	1.81(aM)
10	Acetone	43	1.981	1.981	(0.474)	4663	2.00000	3.49(M)
11	1,1-Dichloroethene	96	1.917	1.917	(0.459)	4255	1.00000	1.14
12	Isobutyl Alcohol	43	4.687	4.687	(1.121)	12753	20.0000	20.52(a)
13	Acetonitrile	39	2.206	2.206	(0.528)	4200	10.0000	9.08(a)
14	Allyl Chloride	41	2.209	2.209	(0.528)	9998	1.00000	0.95(a)
15	Iodomethane	142	2.029	2.029	(0.485)	6227	2.00000	3.31(M)
16	Acrylonitrile	53	2.592	2.592	(0.620)	2830	2.00000	1.87(M)
17	Methylene Chloride	84	2.311	2.311	(0.553)	6477	1.00000	1.22(M)
18	Methyl tert-butyl ether	73	2.539	2.539	(0.607)	12904	1.00000	0.99
19	Carbon Disulfide	76	2.074	2.074	(0.496)	28412	2.00000	2.13
20	trans-1,2-Dichloroethene	96	2.536	2.536	(0.606)	4869	1.00000	1.09
21	Vinyl Acetate	43	3.030	3.030	(0.725)	25154	2.00000	2.11(M)

22 1,1-Dichloroethane	63	2.925	2.925 (0.700)	8535	1.00000	1.06(M)
23 Chloroprene	53	1.782	1.782 (0.426)	1506	1.00000	0.95(aM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
24	2-Butanone	43	3.675	3.675	(0.879)	2970	2.00000	1.89(M)
25	Methacrylonitrile	41	3.859	3.859	(0.923)	4503	1.00000	1.14(aH)
26	2,2-Dichloropropane	77	3.506	3.506	(0.839)	7438	1.00000	1.16
27	cis-1,2-Dichloroethene	96	3.533	3.533	(0.845)	5641	1.00000	1.09
28	Chloroform	83	3.908	3.908	(0.935)	9991	1.00000	1.15
29	Bromochloromethane	128	3.803	3.803	(0.909)	3072	1.00000	1.12
$ 30	Dibromofluoromethane	113	4.106	4.106	(0.982)	5707	1.00000	1.00
31	1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	7437	1.00000	1.06
32	1,1-Dichloropropene	75	4.286	4.286	(0.863)	5846	1.00000	0.93
33	1,2-Dichloroethane	62	4.571	4.571	(0.921)	6607	1.00000	1.05
34	Carbon Tetrachloride	117	4.260	4.260	(0.858)	6002	1.00000	1.00
$ 35	1,2-Dichloroethane-d4	65	4.481	4.481	(1.072)	6368	1.00000	0.55
* 36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	742460	50.0000	
37	Benzene	78	4.522	4.522	(0.911)	20769	1.00000	1.08
38	Trichloroethene	130	5.216	5.216	(1.051)	5205	1.00000	0.98(a)
39	Bromodichloromethane	83	5.729	5.729	(1.154)	7957	1.00000	1.17(a)
40	Methyl Methacrylate	41	5.624	5.624	(1.345)	3817	1.00000	1.03(aM)
41	2-Chloroethylvinyl ether	63	6.074	6.074	(1.223)	3674	2.00000	2.00(aM)
42	1,2-Dichloropropane	63	5.441	5.441	(1.096)	4954	1.00000	0.98(aM)
43	2-Nitropropane	43	5.977	5.977	(1.429)	1148	1.00000	0.89(aH)
44	Dibromomethane	93	5.561	5.561	(1.120)	3549	1.00000	1.12(a)
45	4-Methyl-2-Pentanone	43	6.337	6.337	(0.826)	9202	2.00000	2.06(aM)
46	cis-1,3-Dichloropropene	75	6.168	6.168	(1.242)	8393	1.00000	1.00(a)
* 47	Chlorobenzene-d5	117	7.667	7.667	(1.000)	689452	50.0000	
$ 48	Toluene-d8	98	6.393	6.393	(0.834)	19747	1.00000	1.13(a)
49	Ethyl Methacrylate	69	6.798	6.798	(1.369)	6487	1.00000	0.95(aMH)
50	Toluene	91	6.457	6.457	(0.842)	20722	1.00000	1.02(a)
51	trans-1,3-Dichloropropene	75	6.697	6.697	(1.349)	7608	1.00000	1.09(a)
52	2-Hexanone	43	7.116	7.116	(0.928)	5813	2.00000	1.95(a)
53	1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	4096	1.00000	1.03(a)
54	1,3-Dichloropropane	76	6.985	6.985	(0.911)	8386	1.00000	1.05(a)
55	Dibromochloromethane	129	7.184	7.184	(0.937)	5861	1.00000	1.04(a)
56	Tetrachloroethene	164	6.929	6.929	(0.904)	4148	1.00000	0.99(a)
57	1,2-Dibromoethane	107	7.266	7.266	(0.948)	5555	1.00000	1.10(a)
58	1-Chlorohexane	55	7.697	7.697	(1.550)	4565	1.00000	1.01(a)
59	Chlorobenzene	112	7.697	7.697	(1.004)	14514	1.00000	1.04(a)
60	1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	5613	1.00000	1.08(a)
61	Ethylbenzene	106	7.806	7.806	(1.018)	7471	1.00000	1.04(a)
62	m,p-Xylenes	106	7.911	7.911	(1.032)	16779	2.00000	1.90(a)
63	o-Xylene	106	8.248	8.248	(1.076)	9263	1.00000	1.05(a)
64	Styrene	104	8.286	8.286	(1.081)	14673	1.00000	1.01(a)
66	Bromoform	173	8.417	8.417	(1.098)	3884	1.00000	0.99(Ta)
67	Isopropylbenzene	105	8.563	8.563	(1.117)	21399	1.00000	0.98(a)
68	1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	7862	1.00000	1.18(a)
$ 69	4-Bromofluorobenzene	95	8.698	8.698	(1.134)	11345	1.00000	1.16(a)
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	377369	50.0000	
71	1,2,3-Trichloropropane	75	8.871	8.871	(0.918)	4849	1.00000	1.01(a)
72	trans-1,4-Dichloro-2-butene	53	8.919	8.919	(1.163)	1668	1.00000	0.99(aM)
73	n-Propylbenzene	91	8.919	8.919	(0.923)	22989	1.00000	0.92(a)
74	Bromobenzene	156	8.818	8.818	(0.913)	6344	1.00000	1.03(a)
75	1,3,5-Trimethylbenzene	105	9.073	9.073	(0.939)	18052	1.00000	0.99(a)
76	2-Chlorotoluene	91	8.983	8.983	(0.930)	17472	1.00000	1.10(a)

77	4-Chlorotoluene	91	9.088	9.088 (0.941)	17079	1.00000	0.97(a)
78	tert-Butylbenzene	119	9.336	9.336 (0.966)	14794	1.00000	0.97(a)

	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	9.384	9.384	(0.971)	18527	1.00000	1.00(a)
81	sec-Butylbenzene	105	9.523	9.523	(0.986)	21044	1.00000	0.98(a)
82	p-Isopropyltoluene	119	9.650	9.650	(0.999)	17481	1.00000	0.93(a)
83	1,3-Dichlorobenzene	146	9.613	9.613	(0.995)	11009	1.00000	1.00(a)
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	12708	1.00000	1.08(a)
86	Benzyl Chloride	91	9.830	9.830	(1.282)	11104	1.00000	0.97(a)
87	n-Butylbenzene	91	10.014	10.014	(1.036)	13132	1.00000	0.82(aM)
88	1,2-Dichlorobenzene	146	10.007	10.007	(1.036)	10599	1.00000	0.97(a)
89	1,2-Dibromo-3-Chloropropane	155	10.674	10.674	(1.105)	1184	1.00000	1.34(a)
90	1,2,4-Trichlorobenzene	180	11.364	11.364	(1.176)	7174	1.00000	0.94(a)
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	3283	1.00000	0.96(a)
92	Naphthalene	128	11.570	11.570	(1.197)	14944	1.00000	0.87(a)
93	1,2,3-Trichlorobenzene	180	11.750	11.750	(1.216)	6263	1.00000	0.90(a)
146	Methyl acetate	43	2.258	2.258	(0.540)	2984	1.00000	1.05(a)
138	Freon TF	101	1.921	1.921	(0.459)	3869	1.00000	1.20(a)
141	Cyclohexane	56	4.121	4.121	(0.986)	5865	1.00000	0.96(aH)
142	Tetrahydrofuran	42	3.863	3.863	(0.924)	1350	2.00000	1.94(aM)
147	Methylcyclohexane	55	5.373	5.373	(1.082)	9209	1.00000	0.88(aM)
135	1,4-Dioxane	88	5.613	5.613	(1.342)	1286	20.0000	22.27(M)
132	n-Butanol	56	5.370	5.370	(1.284)	2023	20.0000	80.30(aM)
131	Methyl Acrylate	55	3.750	3.750	(0.897)	3465	1.00000	0.89(aM)
133	Ethyl Acrylate	55	5.422	5.422	(1.297)	8042	1.00000	3.07(M)
136	n-Hexane	57	2.775	2.775	(0.664)	4190	1.00000	0.77(a)
139	Diethyl ether	59	1.767	1.767	(0.423)	3143	1.00000	1.05(a)
148	Tert-butyl alcohol	59	2.442	2.442	(0.584)	11634	20.0000	23.78
149	Isopropyl alcohol	45	2.101	2.101	(0.502)	6463	20.0000	23.93
156	Diisopropyl ether	45	3.012	3.012	(0.720)	13921	1.00000	0.99(Ta)
160	2-Methylnaphthalene	142	12.668	12.668	(1.311)	6245	1.00000	0.83(a)
166	1,2,3-Trimethylbenzene	105	9.737	9.737	(1.008)	17649	1.00000	0.98(a)
167	Ethanol	45	1.707	1.707	(0.408)	953	20.0000	20.92(M)
172	tert-Butyl formate	59	4.627	4.627	(1.107)	8761	2.00000	2.23(aM)
173	3,3-Dimethyl-1-butanol	57	7.296	7.296	(0.952)	12186	20.0000	21.61(M)
174	tert-Amyl methyl ether	73	4.669	4.669	(1.117)	15782	1.00000	1.03(aM)
175	tert-Butyl ethyl ether	59	3.383	3.383	(0.809)	14971	1.00000	1.02(a)
176	tert-Amyl alcohol	59	4.627	4.627	(1.107)	8761	20.0000	21.89(M)
151	4-Methyl-2-pentanol	45	6.719	6.719	(1.353)	26840	20.0000	22.73(M)
180	1-Methylnaphthalene	142	12.668	12.668	(1.311)	6245	1.00000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.279)	4172	1.00000	1.05(a)
152	Amyl alcohol	42	6.981	6.981	(0.911)	2449	20.0000	19.06(M)
158	Dichlorofluoromethane	67	1.531	1.531	(0.366)	6498	1.00000	0.94(M)
159	Propylene oxide	43	1.812	1.812	(0.433)	1041	2.00000	2.46(a)
161	3-Methyl-1-butanol	55	6.951	6.951	(0.907)	2518	20.0000	53.71(M)
162	Butyl acrylate	55	8.278	8.278	(1.080)	6899	1.00000	1.21(a)
163	Butyl methacrylate	41	9.182	9.182	(0.950)	6113	1.00000	0.96(a)
164	Dicyclopentadiene	66	9.680	9.680	(1.002)	21021	1.00000	0.99(aM)
182	Epichlorohydrin	57	6.119	6.119	(1.233)	2012	4.00000	4.53(aM)
M 94	1,2-Dichloroethylene (total)	96				10510	2.00000	2.18(a)
M 95	Xylenes (total)	106				26042	3.00000	2.96(a)
130	Ethyl Acetate	43	3.694	3.694	(0.883)	5317	1.00000	1.09(aM)
134	Cyclohexanone	55	8.653	8.653	(0.896)	5123	20.0000	11.33(a)
185	Isoprene	39	1.778	1.778	(0.425)	1889	1.00000	1.45(a)
188	Isopropyl acetate	43	4.687	4.687	(0.944)	12045	1.00000	0.93(a)

187 n-Amyl acetate	43	8.477	8.477 (1.106)	10084	1.00000	1.09(aM)
189 n-Butyl acetate	43	7.233	7.233 (0.943)	7115	1.00000	0.96(aM)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
150 Allyl alcohol	57	2.775	2.775	(0.664)	4190	20.0000	14.15
195 Methyl Amyl Ketone	43	8.410	8.410	(1.097)	8974	1.00000	0.88(a)
200 Dimethyl Disulfide	94	6.202	6.202	(0.809)	9210	1.00000	0.90(a)
202 Isobutylene	41	1.242	1.242	(0.297)	500	1.00000	1.09(aM)
205 2-Ethylhexyl Acrylate	55	11.577	11.577	(1.198)	3400	1.00000	1.74(aM)

QC Flag Legend

T - Target compound detected outside RT window.
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\voa6.i\X230615.b\X061505.D Page 1
Report Date: 20-Jun-2023 18:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Lab Smp Id: VSTD002 Client Smp ID: VSTD002
Inj Date : 15-JUN-2023 12:39
Operator : PC Inst ID: voa6.i
Smp Info : VSTD002;VSTD002;1;4;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 12:39 Cal File: X061505.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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)	AMOUNTS ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.178	4.181	(1.000)	491447	50.0000	
	2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	9827	2.00000	2.63
	3 Chloromethane	50	1.081	1.081	(0.259)	11295	2.00000	3.15(M)
	4 Propionitrile	54	3.675	3.653	(0.880)	10893	20.0000	18.32(a)
	5 Vinyl Chloride	62	1.145	1.149	(0.274)	11284	2.00000	2.18(M)
	6 Bromomethane	94	1.347	1.344	(0.323)	6397	2.00000	2.15
	7 Chloroethane	64	1.404	1.407	(0.336)	6480	2.00000	2.05(M)
	8 Trichlorofluoromethane	101	1.561	1.565	(0.374)	13596	2.00000	2.21(M)
	9 Acrolein	56	1.449	1.449	(0.347)	1177	4.00000	3.85(aM)
	10 Acetone	43	1.977	1.973	(0.473)	7818	4.00000	5.84
	11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	8233	2.00000	2.13(M)
	12 Isobutyl Alcohol	43	4.680	4.676	(1.120)	25931	40.0000	40.46(a)
	13 Acetonitrile	39	2.210	2.202	(0.529)	9828	20.0000	20.61(a)
	14 Allyl Chloride	41	2.210	2.202	(0.529)	21197	2.00000	1.96(a)
	15 Iodomethane	142	2.030	2.030	(0.486)	14998	4.00000	4.64
	16 Acrylonitrile	53	2.577	2.536	(0.617)	6148	4.00000	3.94(M)
	17 Methylene Chloride	84	2.311	2.307	(0.553)	10372	2.00000	1.90(M)
	18 Methyl tert-butyl ether	73	2.539	2.536	(0.608)	28898	2.00000	2.15
	19 Carbon Disulfide	76	2.071	2.071	(0.496)	57380	4.00000	4.18
	20 trans-1,2-Dichloroethene	96	2.539	2.532	(0.608)	9744	2.00000	2.11
	21 Vinyl Acetate	43	3.019	2.997	(0.723)	44460	4.00000	3.61(M)

22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	17688	2.00000	2.13
23 Chloroprene	53	1.775	1.775 (0.425)	3814	2.00000	2.33(aM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
24	2-Butanone	43	3.660	3.578	(0.876)	6420	4.00000	3.96(M)
25	Methacrylonitrile	41	3.859	3.821	(0.924)	6777	2.00000	1.67(aH)
26	2,2-Dichloropropane	77	3.510	3.514	(0.840)	15188	2.00000	2.31
27	cis-1,2-Dichloroethene	96	3.529	3.525	(0.845)	10709	2.00000	2.01
28	Chloroform	83	3.912	3.904	(0.936)	19699	2.00000	2.20
29	Bromochloromethane	128	3.799	3.795	(0.909)	6232	2.00000	2.20
$ 30	Dibromofluoromethane	113	4.110	4.099	(0.984)	9855	2.00000	1.91
31	1,1,1-Trichloroethane	97	4.084	4.084	(0.978)	15758	2.00000	2.18
32	1,1-Dichloropropene	75	4.283	4.279	(0.863)	13845	2.00000	2.18
33	1,2-Dichloroethane	62	4.568	4.556	(0.920)	11862	2.00000	1.86
34	Carbon Tetrachloride	117	4.268	4.264	(0.860)	13225	2.00000	2.16(M)
$ 35	1,2-Dichloroethane-d4	65	4.485	4.470	(1.074)	11054	2.00000	1.51
* 36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	756725	50.0000	
37	Benzene	78	4.519	4.511	(0.910)	40051	2.00000	2.05
38	Trichloroethene	130	5.209	5.205	(1.049)	11520	2.00000	2.14(a)
39	Bromodichloromethane	83	5.726	5.722	(1.153)	13844	2.00000	2.01(a)
40	Methyl Methacrylate	41	5.625	5.606	(1.346)	6671	2.00000	1.75(a)
41	2-Chloroethylvinyl ether	63	6.067	6.048	(1.222)	7359	4.00000	3.94(a)
42	1,2-Dichloropropane	63	5.433	5.437	(1.094)	10261	2.00000	2.00(aM)
43	2-Nitropropane	43	5.973	5.966	(1.430)	2410	2.00000	1.81(aH)
44	Dibromomethane	93	5.561	5.550	(1.120)	6792	2.00000	2.11(a)
45	4-Methyl-2-Pentanone	43	6.333	6.322	(0.826)	18797	4.00000	4.09(a)
46	cis-1,3-Dichloropropene	75	6.164	6.153	(1.242)	16469	2.00000	1.93(a)
* 47	Chlorobenzene-d5	117	7.668	7.668	(1.000)	710505	50.0000	
$ 48	Toluene-d8	98	6.393	6.386	(0.834)	37063	2.00000	2.06(a)
49	Ethyl Methacrylate	69	6.719	6.708	(1.353)	11631	2.00000	2.14(aM)
50	Toluene	91	6.453	6.445	(0.842)	44414	2.00000	2.12(a)
51	trans-1,3-Dichloropropene	75	6.689	6.678	(1.347)	13530	2.00000	1.90(a)
52	2-Hexanone	43	7.105	7.083	(0.927)	12601	4.00000	4.11(a)
53	1,1,2-Trichloroethane	83	6.843	6.835	(0.892)	8751	2.00000	2.15(a)
54	1,3-Dichloropropane	76	6.985	6.978	(0.911)	16399	2.00000	1.99(a)
55	Dibromochloromethane	129	7.180	7.173	(0.936)	11673	2.00000	2.02(a)
56	Tetrachloroethene	164	6.929	6.925	(0.904)	9492	2.00000	2.21(a)
57	1,2-Dibromoethane	107	7.263	7.259	(0.947)	10319	2.00000	1.98(a)
58	1-Chlorohexane	55	7.701	7.694	(1.551)	10171	2.00000	2.21(a)
59	Chlorobenzene	112	7.698	7.690	(1.004)	29078	2.00000	2.03(a)
60	1,1,1,2-Tetrachloroethane	131	7.776	7.773	(1.014)	10908	2.00000	2.04(a)
61	Ethylbenzene	106	7.806	7.799	(1.018)	15525	2.00000	2.11(a)
62	m,p-Xylenes	106	7.908	7.900	(1.031)	37098	4.00000	4.09(a)
63	o-Xylene	106	8.245	8.237	(1.075)	19383	2.00000	2.14(a)
64	Styrene	104	8.271	8.256	(1.079)	29379	2.00000	1.97(a)
66	Bromoform	173	8.414	8.410	(1.097)	7721	2.00000	1.92(Ta)
67	Isopropylbenzene	105	8.564	8.560	(1.117)	47118	2.00000	2.10(a)
68	1,1,2,2-Tetrachloroethane	83	8.841	8.837	(0.915)	14437	2.00000	2.11(a)
$ 69	4-Bromofluorobenzene	95	8.695	8.687	(1.134)	16470	2.00000	1.86(a)
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	388397	50.0000	
71	1,2,3-Trichloropropane	75	8.867	8.863	(0.918)	10499	2.00000	2.14(a)
72	trans-1,4-Dichloro-2-butene	53	8.905	8.886	(1.161)	3093	2.00000	1.78(aM)
73	n-Propylbenzene	91	8.916	8.908	(0.923)	55786	2.00000	2.18(a)
74	Bromobenzene	156	8.815	8.803	(0.912)	13387	2.00000	2.11(aM)
75	1,3,5-Trimethylbenzene	105	9.070	9.066	(0.939)	39913	2.00000	2.12(a)
76	2-Chlorotoluene	91	8.976	8.972	(0.929)	35737	2.00000	2.20(a)

77	4-Chlorotoluene	91	9.081	9.070 (0.940)	39085	2.00000	2.15(a)
78	tert-Butylbenzene	119	9.336	9.336 (0.966)	34187	2.00000	2.18(a)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D Page 3
Report Date: 20-Jun-2023 18:25

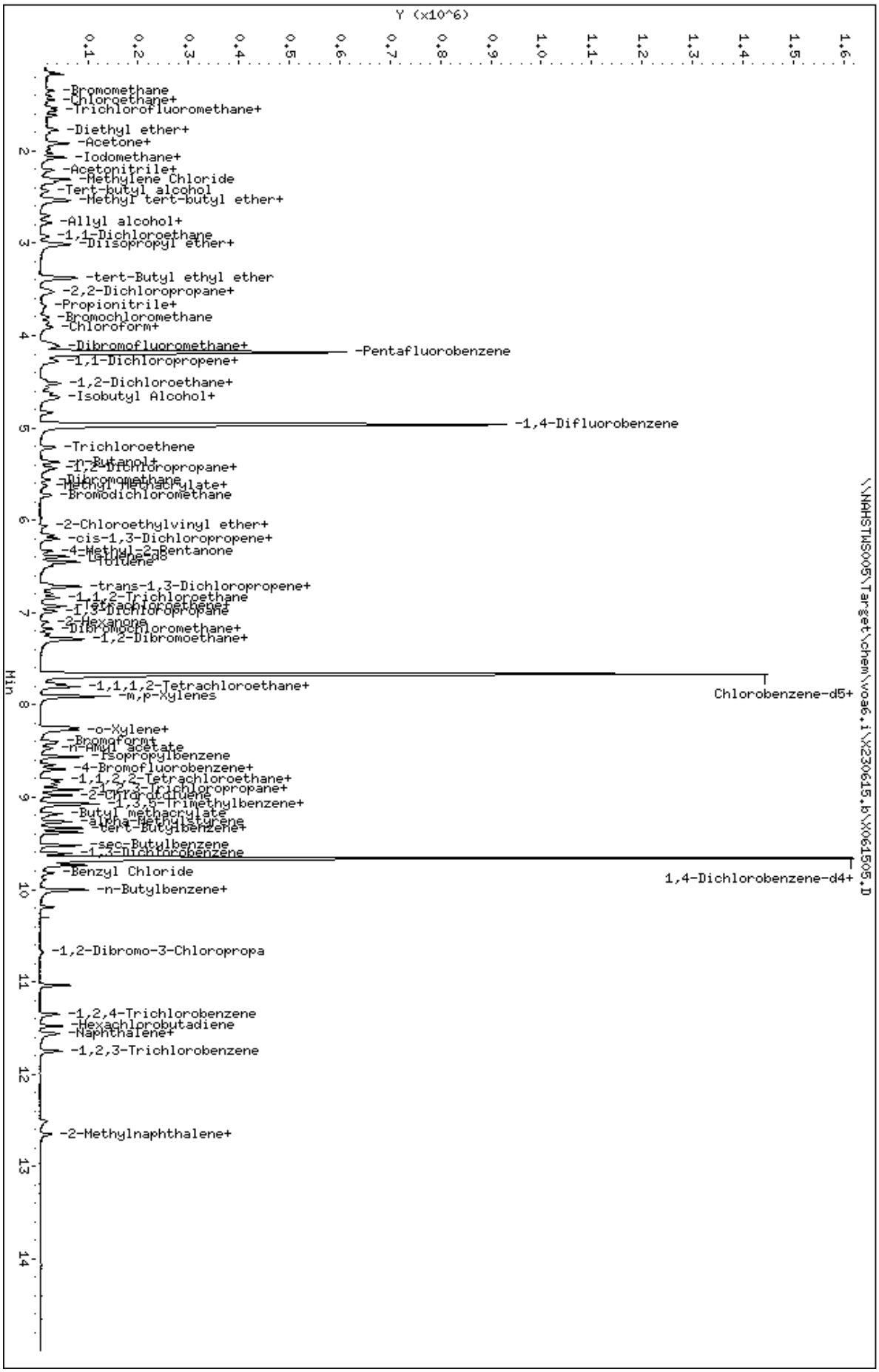
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.381	9.377	(0.971)	39036	2.00000	2.06(a)
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	46617	2.00000	2.11(a)
82	p-Isopropyltoluene	119	9.651	9.647	(0.999)	40965	2.00000	2.12(a)
83	1,3-Dichlorobenzene	146	9.609	9.602	(0.995)	22900	2.00000	2.03(a)
84	1,4-Dichlorobenzene	146	9.684	9.681	(1.002)	26087	2.00000	2.16(a)
86	Benzyl Chloride	91	9.816	9.808	(1.280)	20389	2.00000	1.73(aM)
87	n-Butylbenzene	91	10.003	9.992	(1.035)	33064	2.00000	2.01(a)
88	1,2-Dichlorobenzene	146	10.003	9.992	(1.035)	23526	2.00000	2.10(a)
89	1,2-Dibromo-3-Chloropropane	155	10.674	10.655	(1.105)	2351	2.00000	2.36(a)
90	1,2,4-Trichlorobenzene	180	11.353	11.334	(1.175)	14424	2.00000	1.85(a)
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	7390	2.00000	2.11(a)
92	Naphthalene	128	11.562	11.540	(1.197)	32050	2.00000	1.82(a)
93	1,2,3-Trichlorobenzene	180	11.750	11.739	(1.216)	14223	2.00000	1.98(a)
146	Methyl acetate	43	2.247	2.232	(0.538)	5157	2.00000	1.77(aM)
138	Freon TF	101	1.921	1.917	(0.460)	8361	2.00000	2.50(aM)
141	Cyclohexane	56	4.125	4.121	(0.987)	13787	2.00000	2.20(aMH)
142	Tetrahydrofuran	42	3.863	3.844	(0.925)	2899	4.00000	4.04(a)
147	Methylcyclohexane	55	5.370	5.381	(1.082)	20990	2.00000	1.98(aM)
135	1,4-Dioxane	88	5.613	5.598	(1.344)	2444	40.0000	41.03(M)
132	n-Butanol	56	5.355	5.253	(1.282)	3179	40.0000	88.25(aM)
131	Methyl Acrylate	55	3.735	3.690	(0.894)	8064	2.00000	2.02(aM)
133	Ethyl Acrylate	55	5.407	5.381	(1.294)	14275	2.00000	3.59(M)
136	n-Hexane	57	2.776	2.776	(0.664)	10696	2.00000	2.27(aM)
139	Diethyl ether	59	1.764	1.760	(0.422)	6390	2.00000	2.07(a)
148	Tert-butyl alcohol	59	2.438	2.431	(0.584)	20278	40.0000	40.18
149	Isopropyl alcohol	45	2.105	2.093	(0.504)	11338	40.0000	40.70(T)
156	Diisopropyl ether	45	3.001	3.000	(0.718)	28799	2.00000	1.98(Ta)
160	2-Methylnaphthalene	142	12.646	12.634	(1.309)	12286	2.00000	1.60
166	1,2,3-Trimethylbenzene	105	9.733	9.729	(1.007)	38504	2.00000	2.08(a)
167	Ethanol	45	1.700	1.707	(0.407)	2336	40.0000	49.73(TM)
172	tert-Butyl formate	59	4.627	4.612	(1.108)	16716	4.00000	4.13(aM)
173	3,3-Dimethyl-1-butanol	57	7.293	7.285	(0.951)	26671	40.0000	45.89
174	tert-Amyl methyl ether	73	4.669	4.665	(1.118)	32910	2.00000	2.08(aM)
175	tert-Butyl ethyl ether	59	3.375	3.379	(0.808)	30807	2.00000	2.05(a)
176	tert-Amyl alcohol	59	4.627	4.612	(1.108)	16715	40.0000	40.49
151	4-Methyl-2-pentanol	45	6.715	6.708	(1.353)	56864	40.0000	47.25(M)
180	1-Methylnaphthalene	142	12.646	12.634	(1.309)	12286	2.00000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.280)	8478	2.00000	2.08(aM)
152	Amyl alcohol	42	6.944	6.899	(0.906)	5090	40.0000	38.44(M)
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	15880	2.00000	2.24(M)
159	Propylene oxide	43	1.809	1.805	(0.433)	2196	4.00000	5.04
161	3-Methyl-1-butanol	55	6.937	6.899	(0.905)	3850	40.0000	62.56(M)
162	Butyl acrylate	55	8.267	8.249	(1.078)	19207	2.00000	2.35(a)
163	Butyl methacrylate	41	9.178	9.167	(0.950)	13349	2.00000	2.04(a)
164	Dicyclopentadiene	66	9.681	9.681	(1.002)	45923	2.00000	2.11(aM)
182	Epichlorohydrin	57	6.112	6.093	(1.231)	3820	8.00000	8.43(M)
M 94	1,2-Dichloroethylene (total)	96				20453	4.00000	(a)
130	Ethyl Acetate	43	3.672	3.657	(0.879)	10775	2.00000	2.15(Ta)
134	Cyclohexanone	55	8.650	8.642	(0.895)	11759	40.0000	41.26(a)
185	Isoprene	39	1.779	1.775	(0.426)	3339	2.00000	2.49(a)
188	Isopropyl acetate	43	4.680	4.676	(0.943)	24959	2.00000	1.90(a)
187	n-Amyl acetate	43	8.470	8.451	(1.105)	18078	2.00000	1.90(aM)

189 n-Butyl acetate	43	7.229	7.210 (0.943)	14580	2.00000	1.91(aM)
150 Allyl alcohol	57	2.776	2.772 (0.664)	11222	40.0000	46.69

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
194 Acetaldehyde	44	1.209	1.216	(0.289)	4310	8.00000	13.50(M)
195 Methyl Amyl Ketone	43	8.395	8.380	(1.095)	20788	2.00000	1.98(a)
200 Dimethyl Disulfide	94	6.198	6.194	(0.808)	20124	2.00000	1.90(a)
202 Isobutylene	41	1.246	1.242	(0.298)	964	2.00000	2.05(aM)
205 2-Ethylhexyl Acrylate	55	11.566	11.544	(1.197)	8837	2.00000	2.46(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Sample Info: VSTD002;VSTD002;1;4;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

Chloromethane (74-87-3)

BEFORE

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20-Jun-2023
18:22
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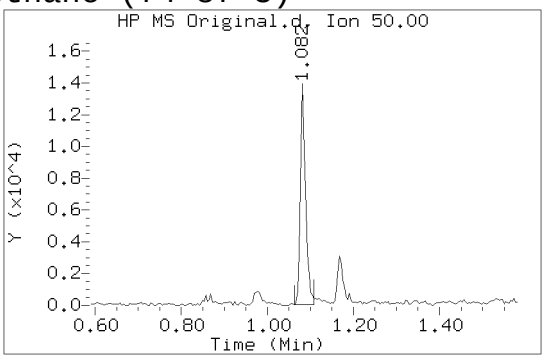

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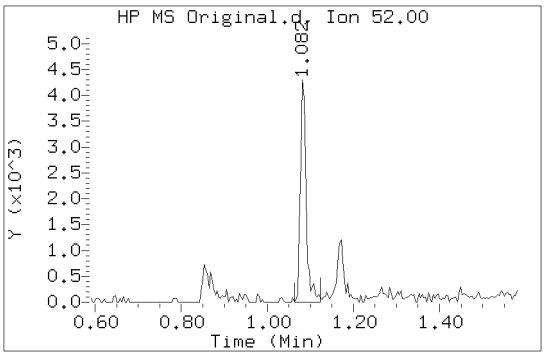

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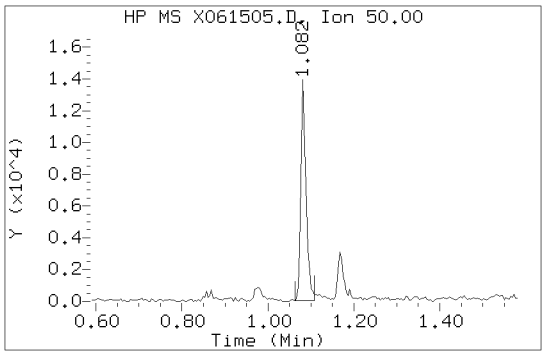

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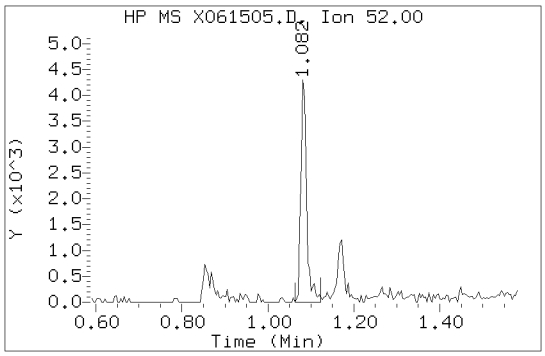

Vinyl Chloride (75-01-4)

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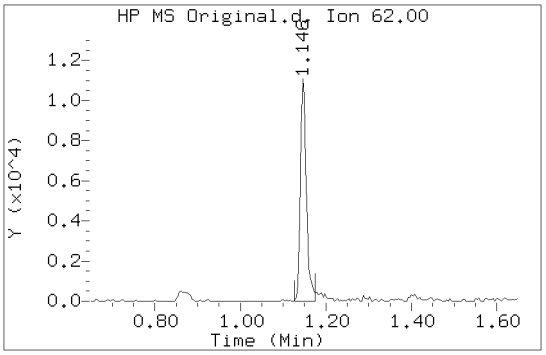

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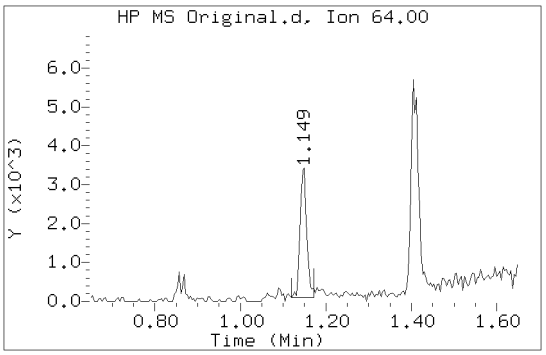

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AFTER

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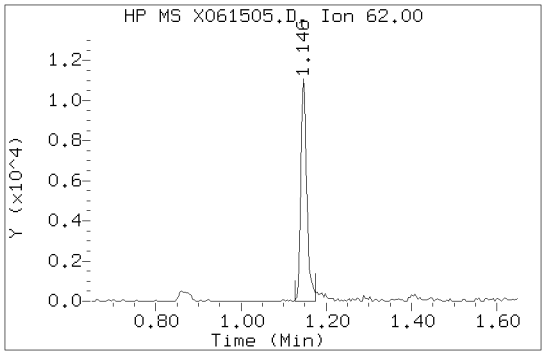

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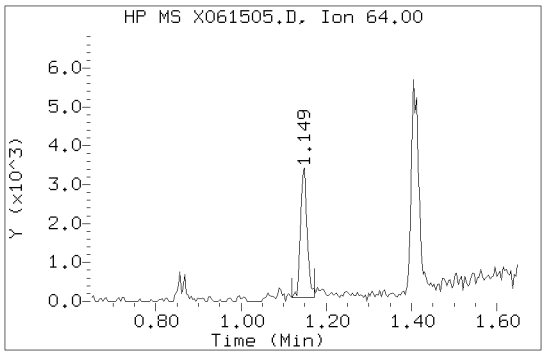

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InstruID : voa6.i
LabSampID : VSTD002

Chloroethane (75-00-3)

Reason Code:

BEFORE

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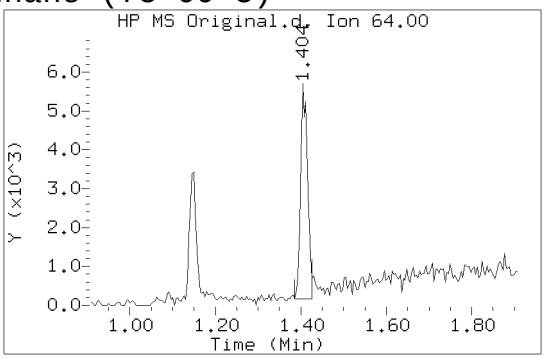

AFTER

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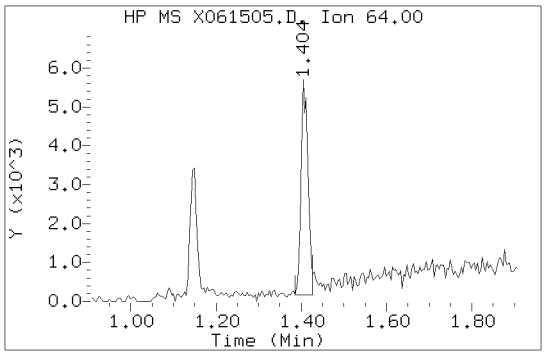

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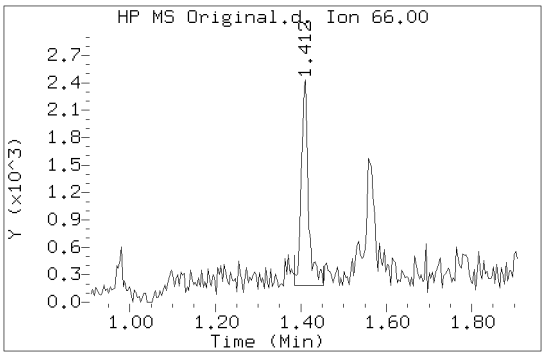

AFTER

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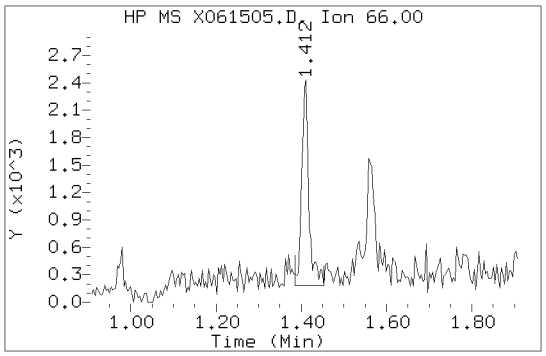

Trichlorofluoromethane (75-69-4)

Reason Code:

BEFORE

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18:22
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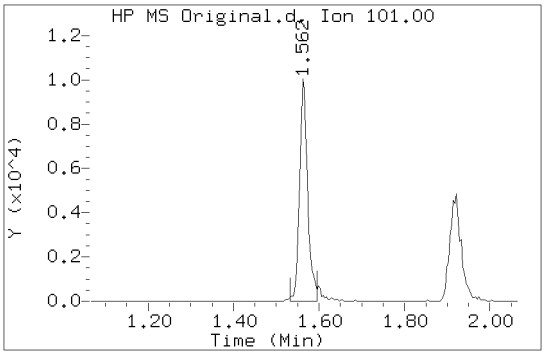

AFTER

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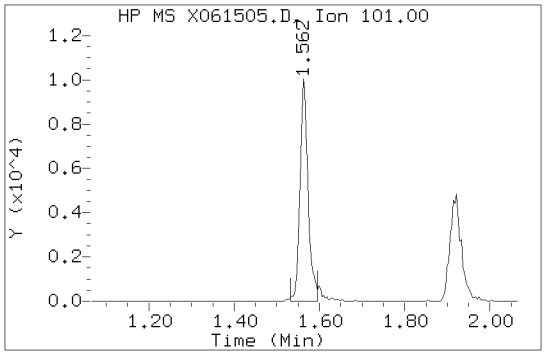

BEFORE

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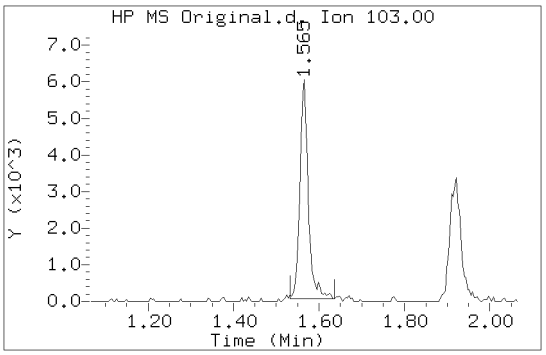

AFTER

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20-Jun-2023
18:22
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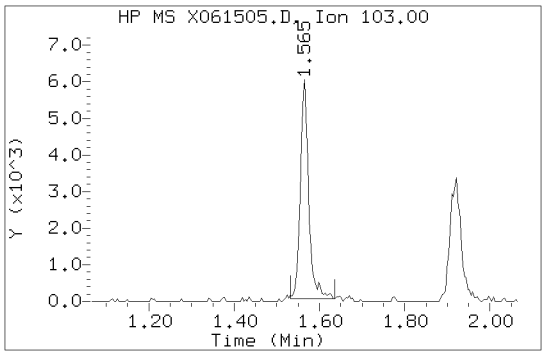

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Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

1,1-Dichloroethene (75-35-4)

Reason Code:

BEFORE

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20-Jun-2023
18:22
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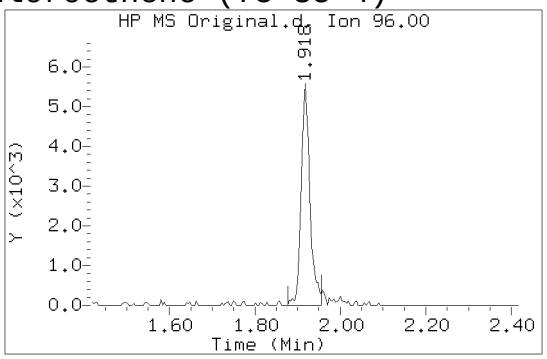

AFTER

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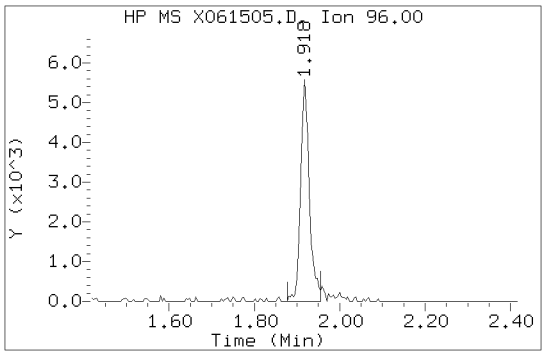

BEFORE

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20-Jun-2023
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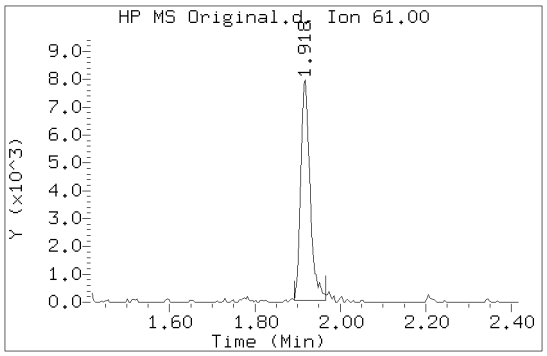

AFTER

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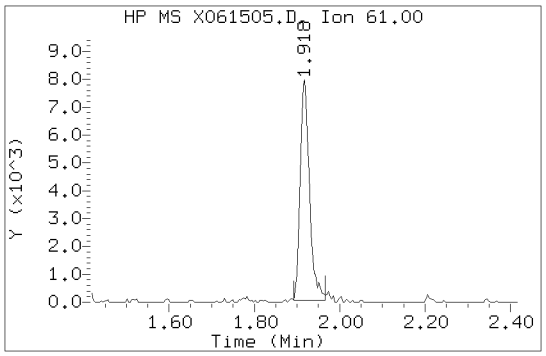

BEFORE

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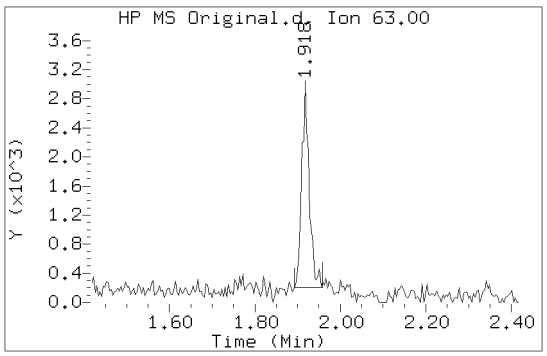

AFTER

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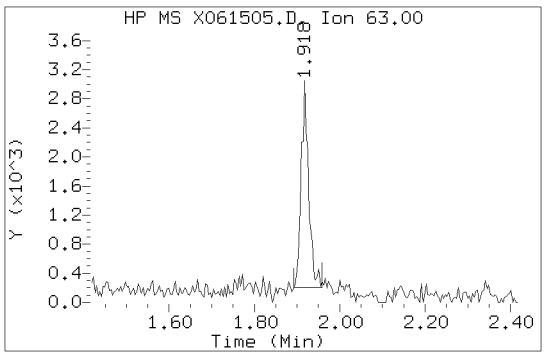

Acrylonitrile (107-13-1)

Reason Code:

BEFORE

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AREA
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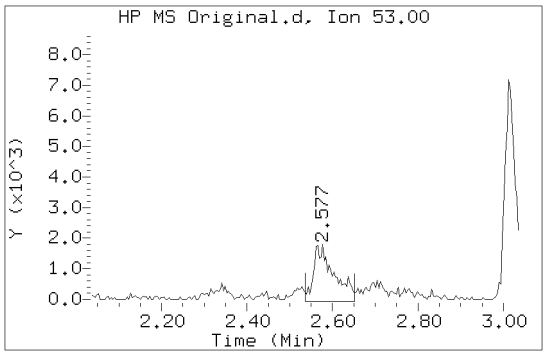
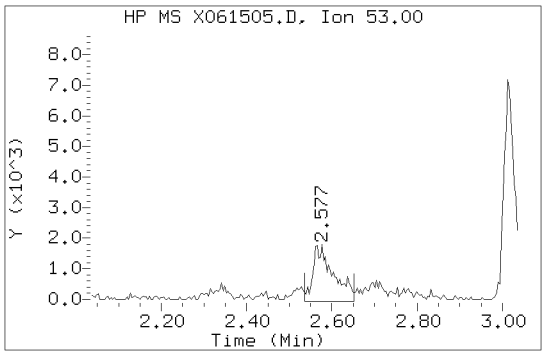
1862
20-Jun-2023
18:22
linh
pham



AFTER

MASS
53
AREA
6148
HEIGHT
1862
20-Jun-2023
18:22
linh
pham



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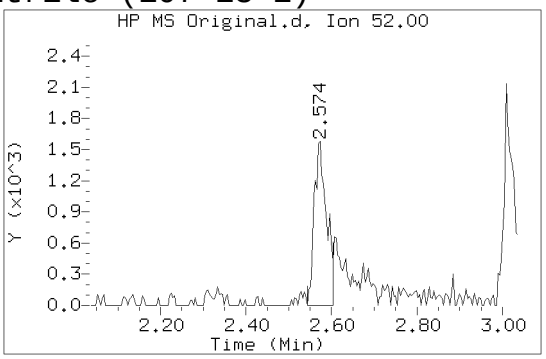
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

Acrylonitrile (107-13-1)

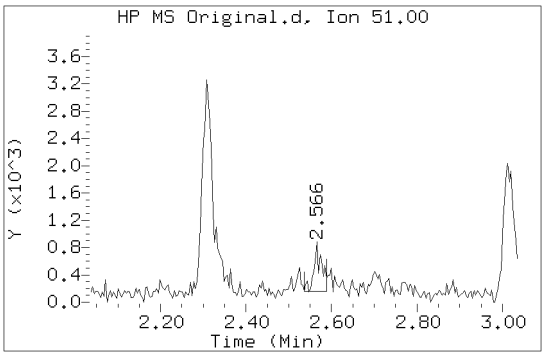
BEFORE

MASS
52
AREA
3159
HEIGHT
1580
20-Jun-2023
18:22
linh
pham



BEFORE

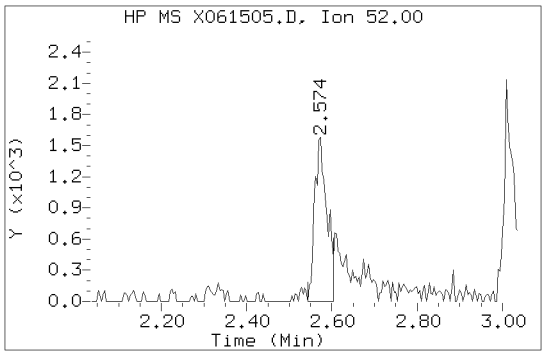
MASS
51
AREA
891
HEIGHT
729
20-Jun-2023
18:22
linh
pham



Reason Code:

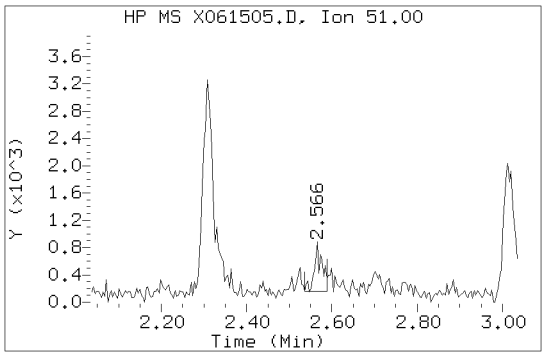
AFTER

MASS
52
AREA
3159
HEIGHT
1580
20-Jun-2023
18:22
linh
pham



AFTER

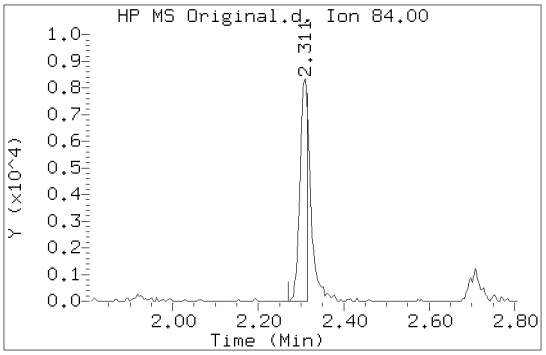
MASS
51
AREA
891
HEIGHT
729
20-Jun-2023
18:22
linh
pham



Methylene Chloride (75-09-2)

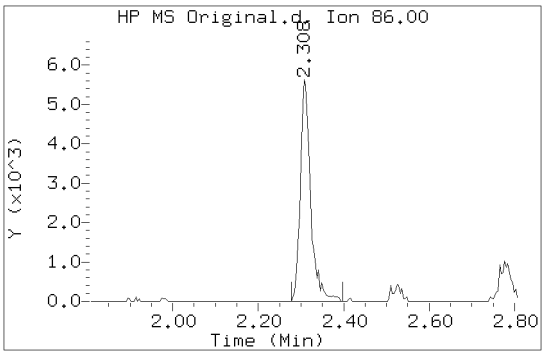
BEFORE

MASS
84
AREA
10372
HEIGHT
8340
20-Jun-2023
18:22
linh
pham



BEFORE

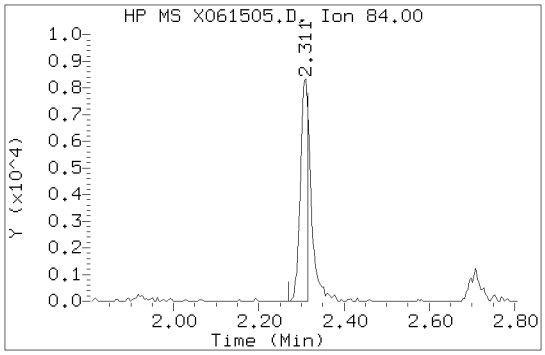
MASS
86
AREA
9744
HEIGHT
5630
20-Jun-2023
18:22
linh
pham



Reason Code:

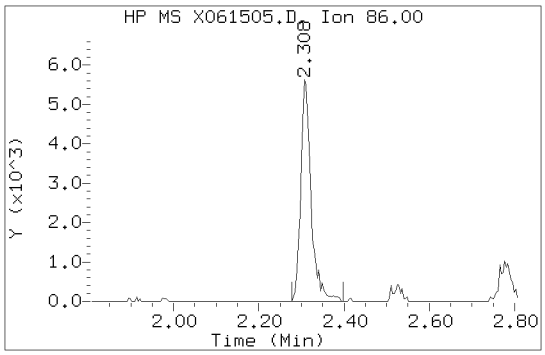
AFTER

MASS
84
AREA
10372
HEIGHT
8340
20-Jun-2023
18:22
linh
pham



AFTER

MASS
86
AREA
9744
HEIGHT
5630
20-Jun-2023
18:22
linh
pham



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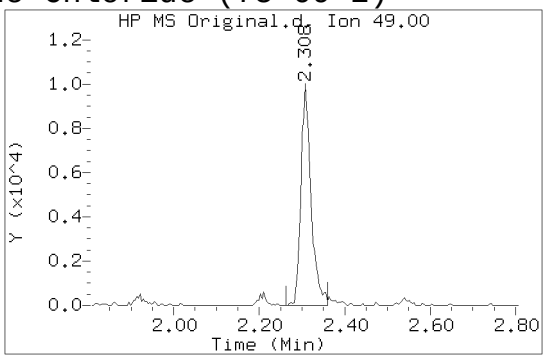
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

Methylene Chloride (75-09-2)

Reason Code:

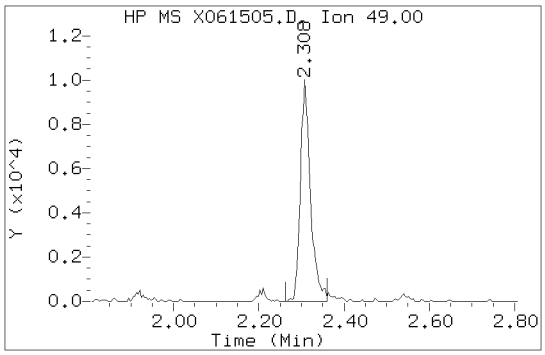
BEFORE

MASS
49
AREA
16901
HEIGHT
10016
20-Jun-2023
18:22
linh
pham



AFTER

MASS
49
AREA
16901
HEIGHT
10016
20-Jun-2023
18:22
linh
pham

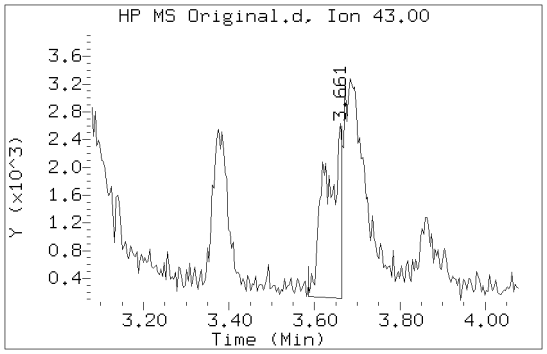


2-Butanone (78-93-3)

Reason Code:

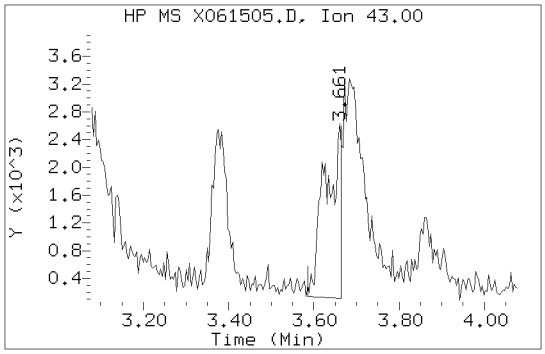
BEFORE

MASS
43
AREA
6420
HEIGHT
2515
20-Jun-2023
18:22
linh
pham



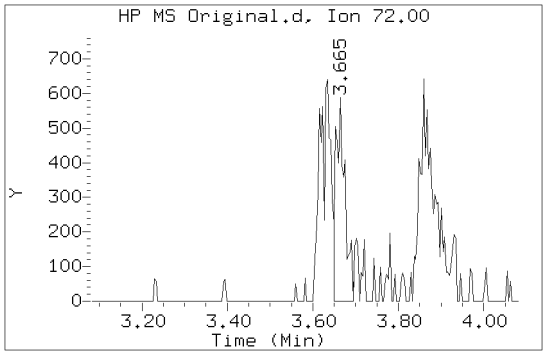
AFTER

MASS
43
AREA
6420
HEIGHT
2515
20-Jun-2023
18:22
linh
pham



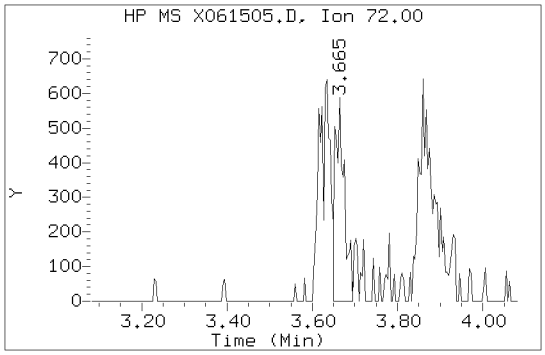
BEFORE

MASS
72
AREA
878
HEIGHT
589
20-Jun-2023
18:22
linh
pham



AFTER

MASS
72
AREA
878
HEIGHT
589
20-Jun-2023
18:22
linh
pham

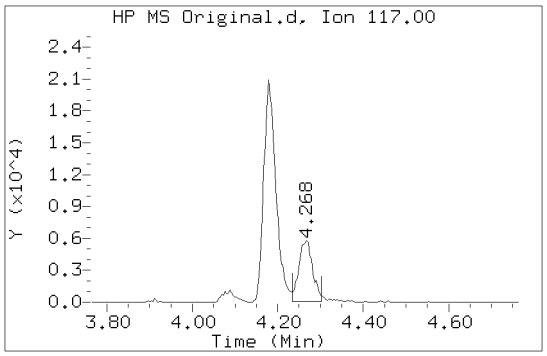


Carbon Tetrachloride (56-23-5)

Reason Code:

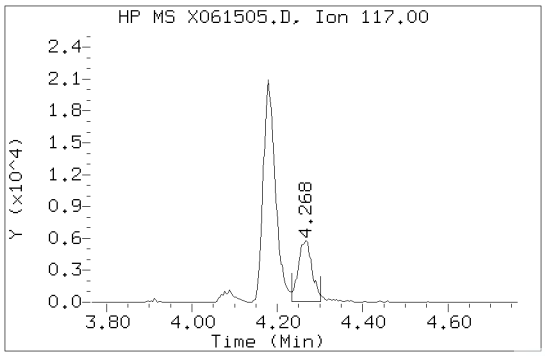
BEFORE

MASS
117
AREA
13225
HEIGHT
5768
20-Jun-2023
18:22
linh
pham



AFTER

MASS
117
AREA
13225
HEIGHT
5768
20-Jun-2023
18:22
linh
pham



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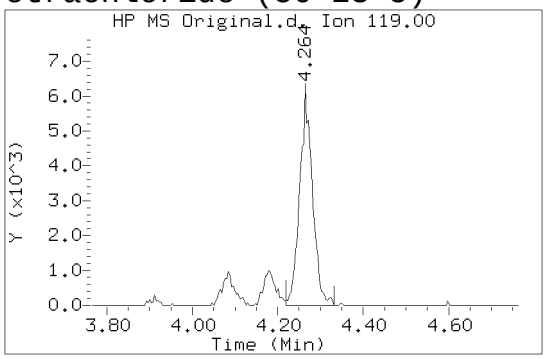
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

Carbon Tetrachloride (56-23-5)

Reason Code:

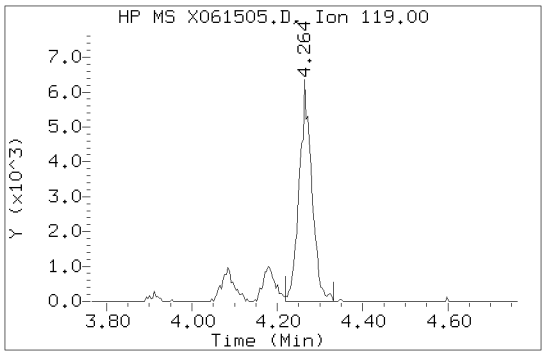
BEFORE

MASS
119
AREA
13241
HEIGHT
6356
20-Jun-2023
18:22
linh
pham



AFTER

MASS
119
AREA
13241
HEIGHT
6356
20-Jun-2023
18:22
linh
pham

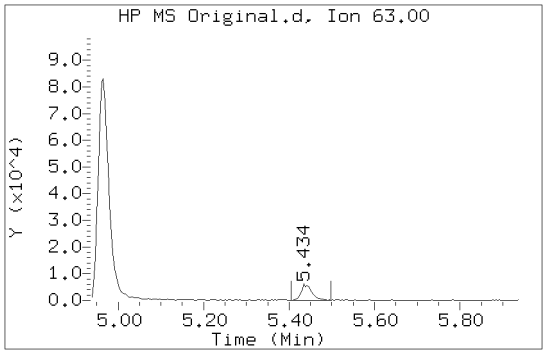


1,2-Dichloropropane (78-87-5)

Reason Code:

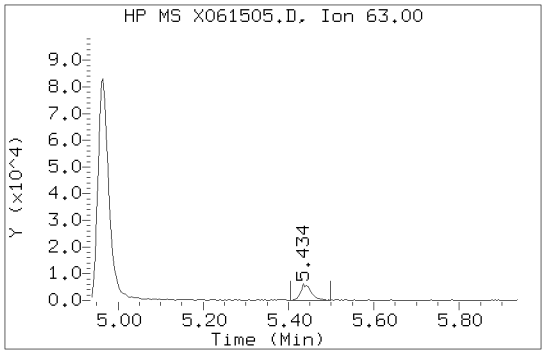
BEFORE

MASS
63
AREA
10261
HEIGHT
6073
20-Jun-2023
18:22
linh
pham



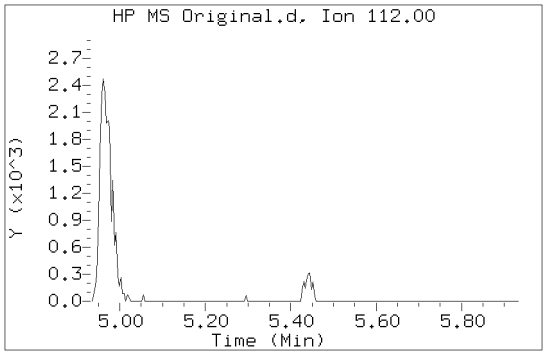
AFTER

MASS
63
AREA
10261
HEIGHT
6073
20-Jun-2023
18:22
linh
pham



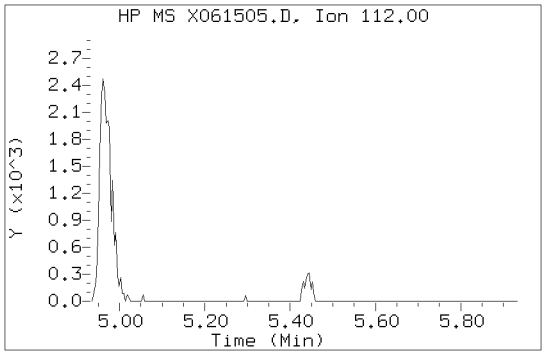
BEFORE

MASS
112
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



AFTER

MASS
112
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

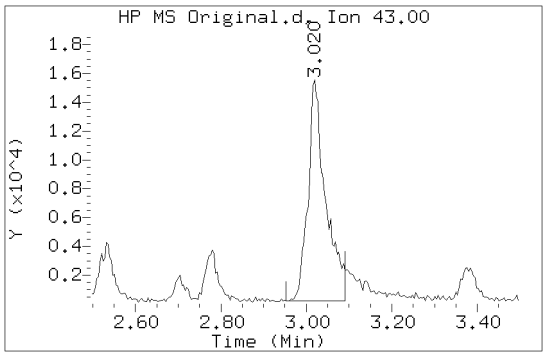


Vinyl Acetate (108-05-4)

Reason Code:

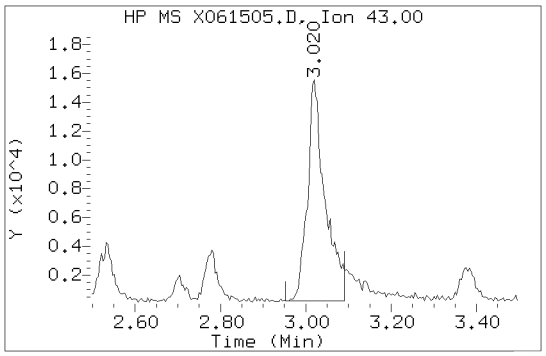
BEFORE

MASS
43
AREA
44460
HEIGHT
15343
20-Jun-2023
18:22
linh
pham



AFTER

MASS
43
AREA
44460
HEIGHT
15343
20-Jun-2023
18:22
linh
pham



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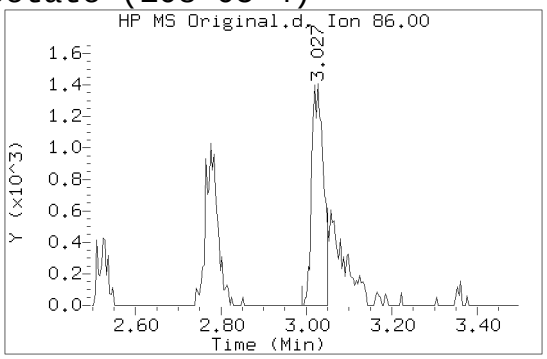
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

Vinyl Acetate (108-05-4)

BEFORE

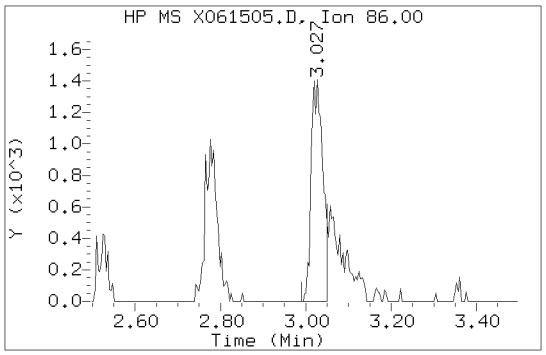
MASS
86
AREA
2664
HEIGHT
1408
20-Jun-2023
18:22
linh
pham



Reason Code:

AFTER

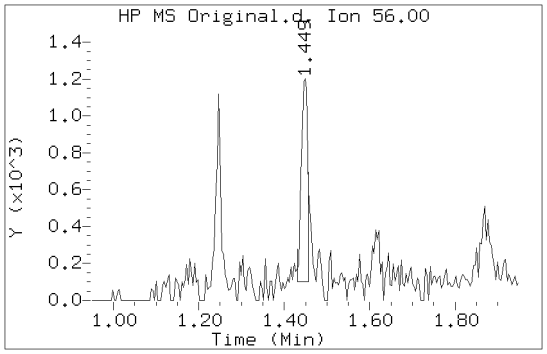
MASS
86
AREA
2664
HEIGHT
1408
20-Jun-2023
18:22
linh
pham



Acrolein (107-02-8)

BEFORE

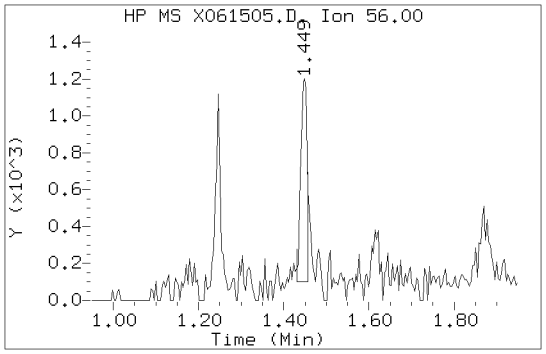
MASS
56
AREA
1177
HEIGHT
1102
20-Jun-2023
18:22
linh
pham



Reason Code:

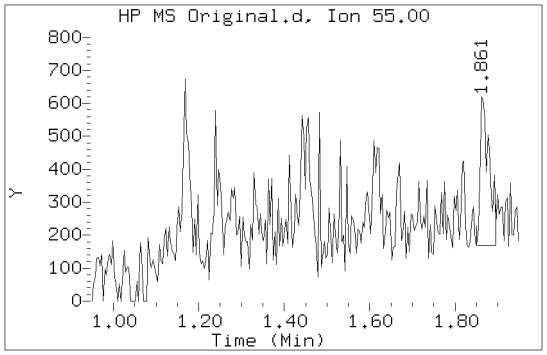
AFTER

MASS
56
AREA
1177
HEIGHT
1102
20-Jun-2023
18:22
linh
pham



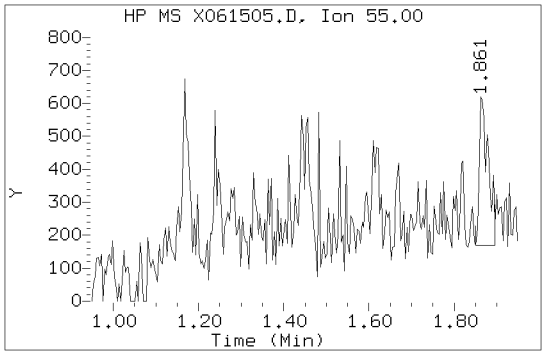
BEFORE

MASS
55
AREA
650
HEIGHT
449
20-Jun-2023
18:22
linh
pham



AFTER

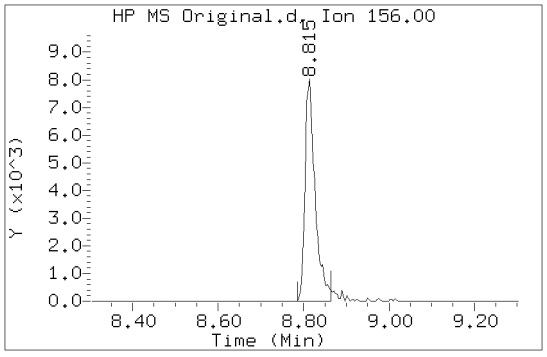
MASS
55
AREA
650
HEIGHT
449
20-Jun-2023
18:22
linh
pham



Bromobenzene (108-86-1)

BEFORE

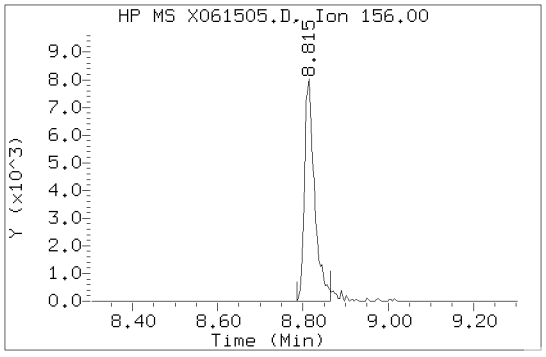
MASS
156
AREA
13387
HEIGHT
8032
20-Jun-2023
18:22
linh
pham



Reason Code:

AFTER

MASS
156
AREA
13387
HEIGHT
8032
20-Jun-2023
18:22
linh
pham



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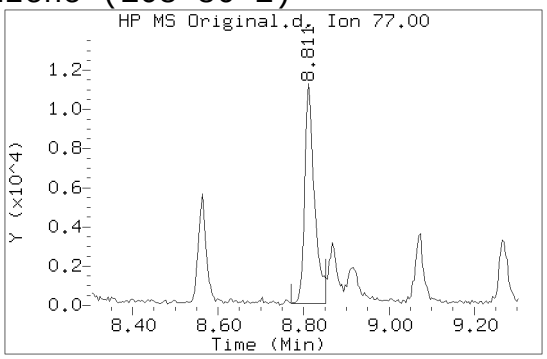
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

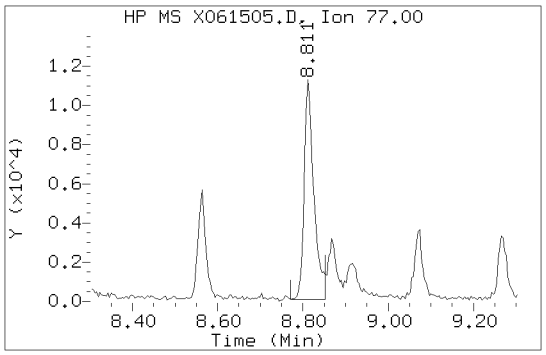
Bromobenzene (108-86-1)

Reason Code:

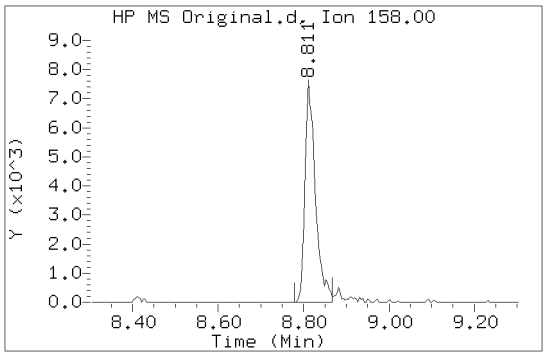
BEFORE
MASS
77
AREA
18077
HEIGHT
11211
20-Jun-2023
18:22
linh
pham



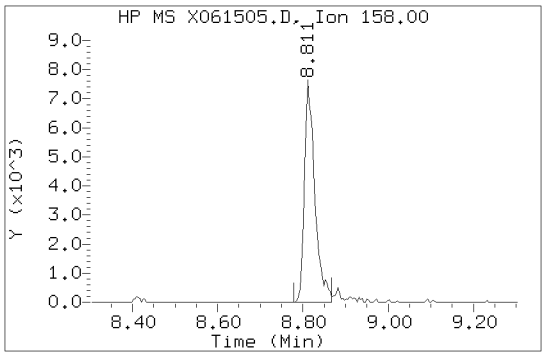
AFTER
MASS
77
AREA
18077
HEIGHT
11211
20-Jun-2023
18:22
linh
pham



BEFORE
MASS
158
AREA
13121
HEIGHT
7648
20-Jun-2023
18:22
linh
pham



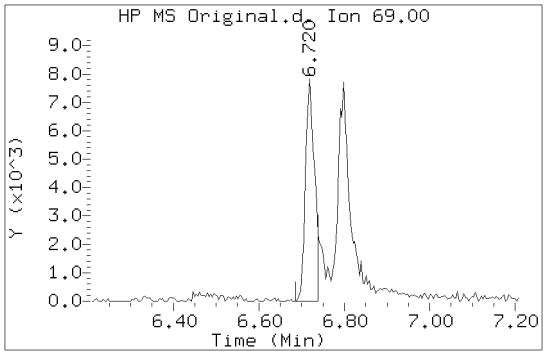
AFTER
MASS
158
AREA
13121
HEIGHT
7648
20-Jun-2023
18:22
linh
pham



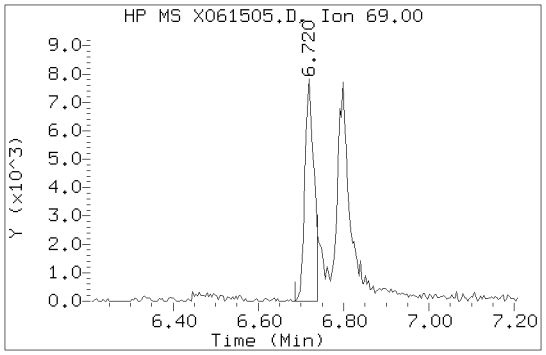
Ethyl Methacrylate (97-63-2)

Reason Code:

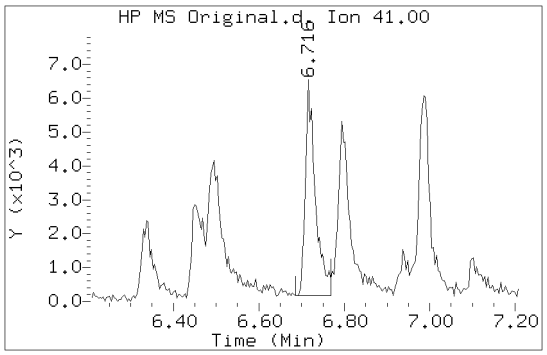
BEFORE
MASS
69
AREA
11631
HEIGHT
7830
20-Jun-2023
18:22
linh
pham



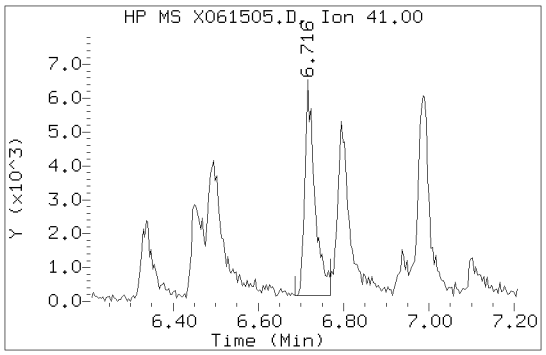
AFTER
MASS
69
AREA
11631
HEIGHT
7830
20-Jun-2023
18:22
linh
pham



BEFORE
MASS
41
AREA
10404
HEIGHT
6367
20-Jun-2023
18:22
linh
pham



AFTER
MASS
41
AREA
10404
HEIGHT
6367
20-Jun-2023
18:22
linh
pham



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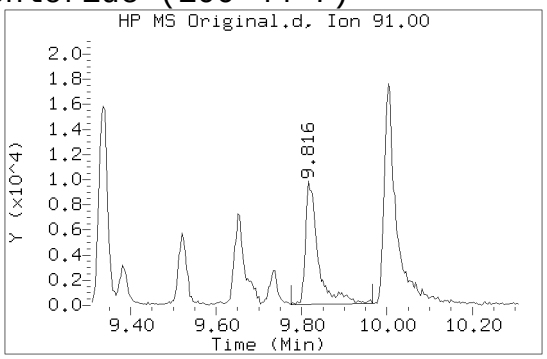
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

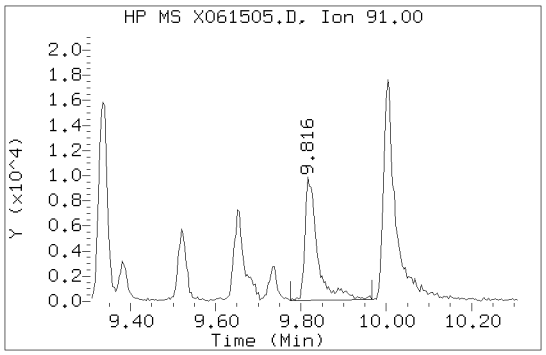
Benzyl Chloride (100-44-7)

Reason Code:

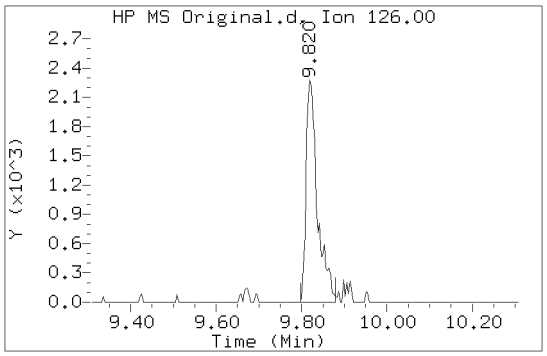
BEFORE
MASS
91
AREA
20389
HEIGHT
9812
20-Jun-2023
18:22
linh
pham



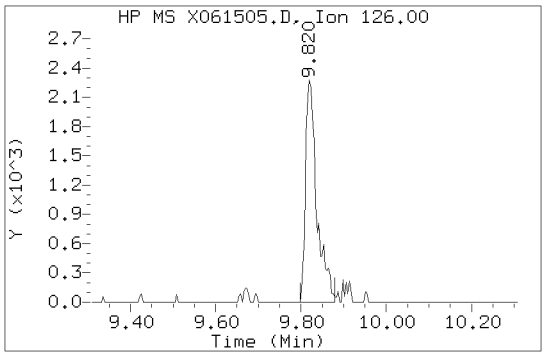
AFTER
MASS
91
AREA
20389
HEIGHT
9812
20-Jun-2023
18:22
linh
pham



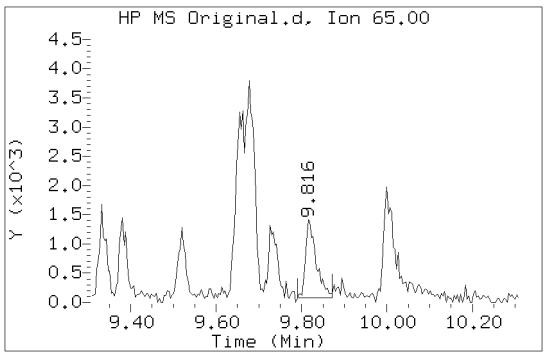
BEFORE
MASS
126
AREA
4211
HEIGHT
2279
20-Jun-2023
18:22
linh
pham



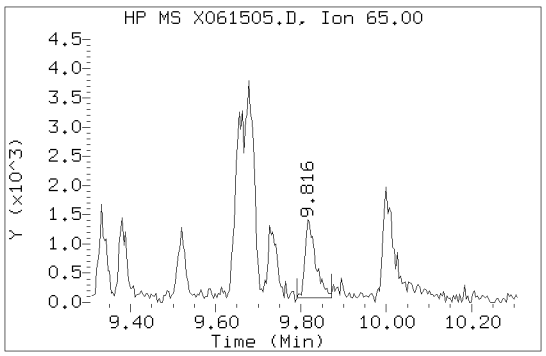
AFTER
MASS
126
AREA
4211
HEIGHT
2279
20-Jun-2023
18:22
linh
pham



BEFORE
MASS
65
AREA
2345
HEIGHT
1335
20-Jun-2023
18:22
linh
pham



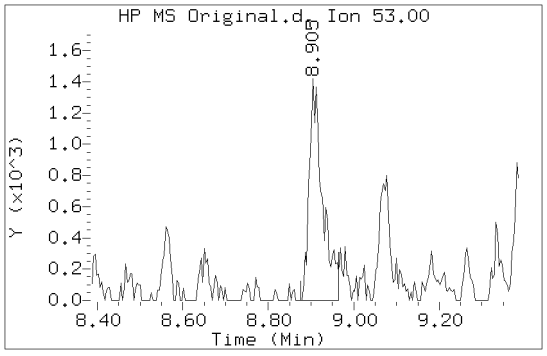
AFTER
MASS
65
AREA
2345
HEIGHT
1335
20-Jun-2023
18:22
linh
pham



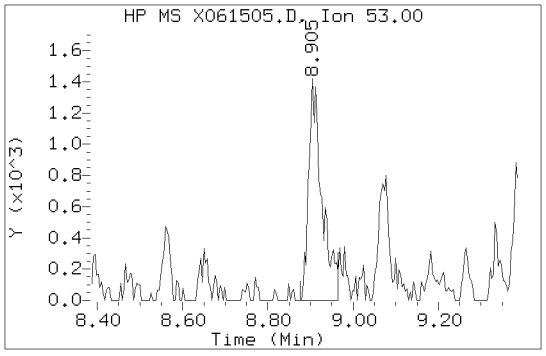
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

BEFORE
MASS
53
AREA
3093
HEIGHT
1420
20-Jun-2023
18:22
linh
pham



AFTER
MASS
53
AREA
3093
HEIGHT
1420
20-Jun-2023
18:22
linh
pham



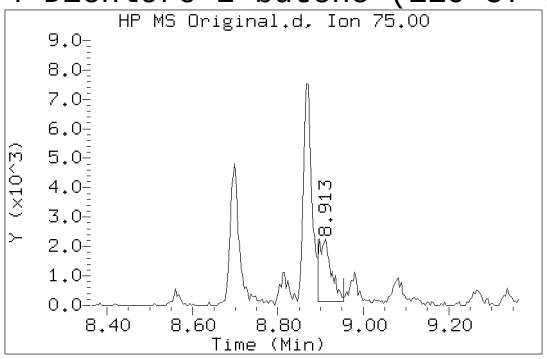
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

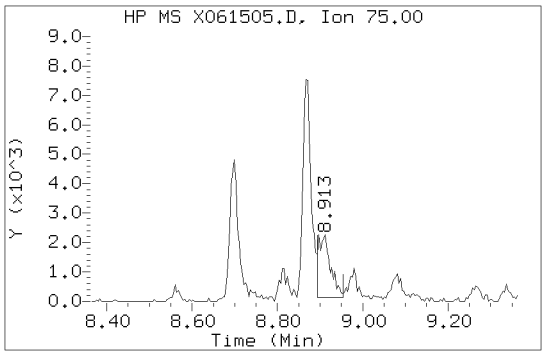
BEFORE

MASS
75
AREA
4233
HEIGHT
2139
20-Jun-2023
18:22
linh
pham



AFTER

MASS
75
AREA
4233
HEIGHT
2139
20-Jun-2023
18:22
linh
pham

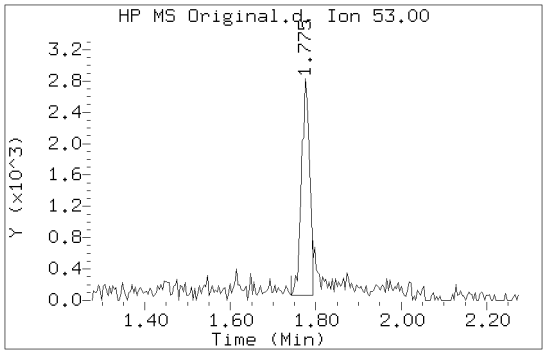


Chloroprene (126-99-8)

Reason Code:

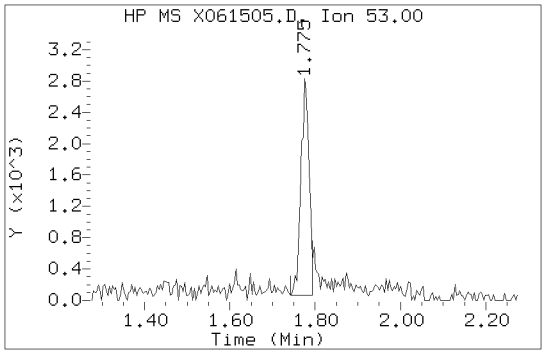
BEFORE

MASS
53
AREA
3814
HEIGHT
2765
20-Jun-2023
18:22
linh
pham



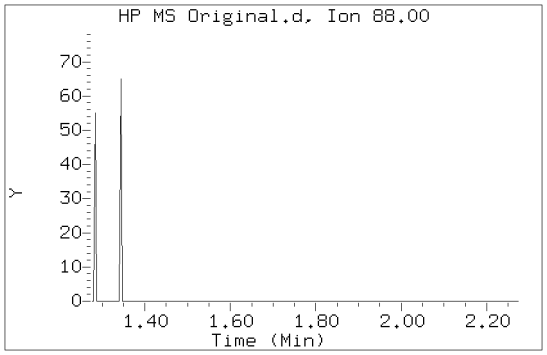
AFTER

MASS
53
AREA
3814
HEIGHT
2765
20-Jun-2023
18:22
linh
pham



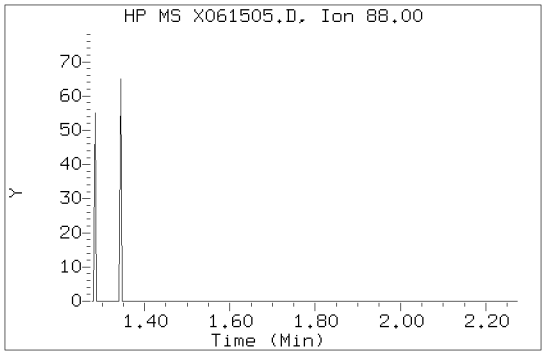
BEFORE

MASS
88
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

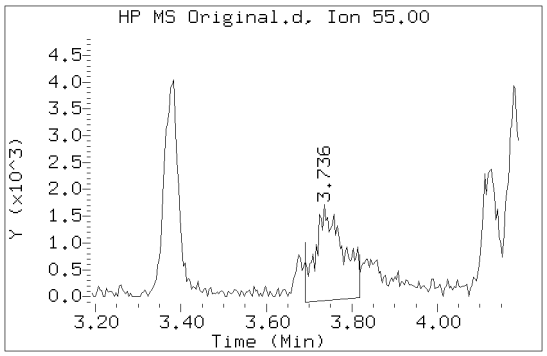


Methyl Acrylate (96-33-3)

Reason Code:

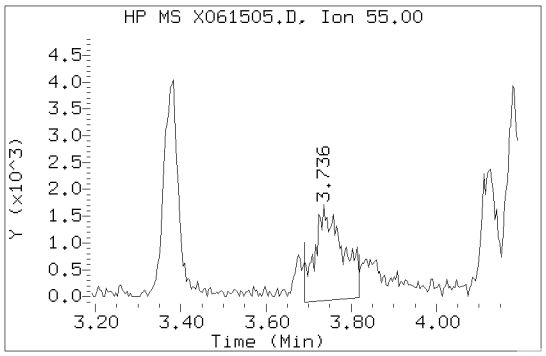
BEFORE

MASS
55
AREA
8064
HEIGHT
1791
20-Jun-2023
18:22
linh
pham



AFTER

MASS
55
AREA
8064
HEIGHT
1791
20-Jun-2023
18:22
linh
pham

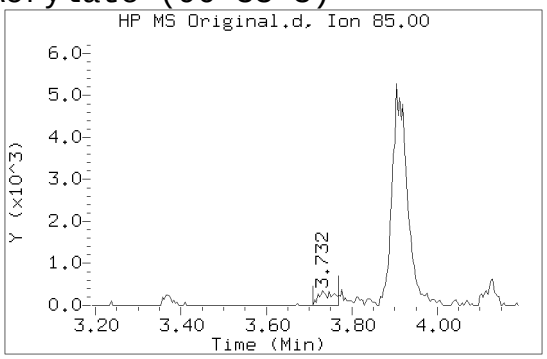


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

Methyl Acrylate (96-33-3)

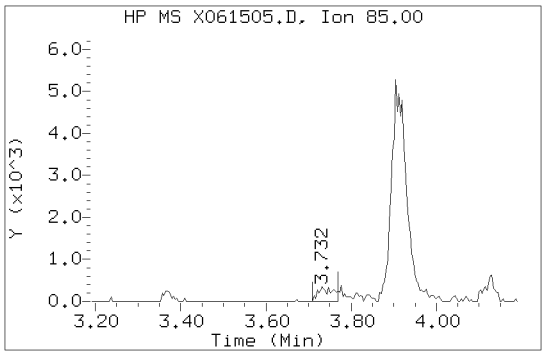
BEFORE

MASS
85
AREA
844
HEIGHT
344
20-Jun-2023
18:22
linh
pham



AFTER

MASS
85
AREA
844
HEIGHT
344
20-Jun-2023
18:22
linh
pham

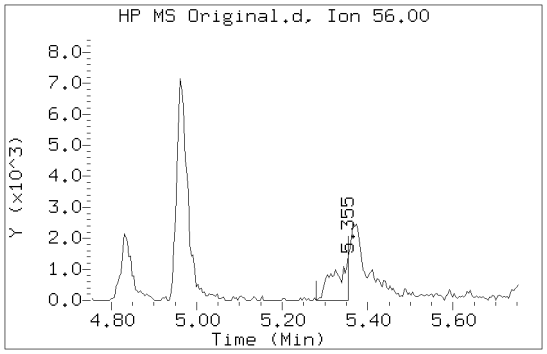


Reason Code:

n-Butanol (71-36-3)

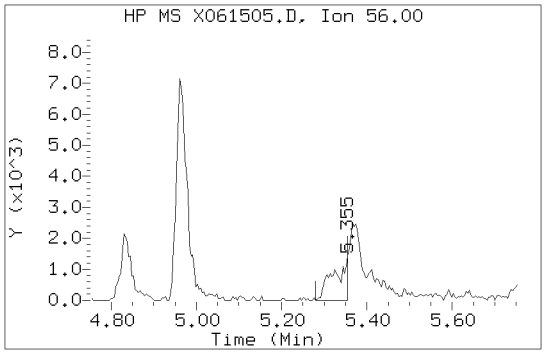
BEFORE

MASS
56
AREA
3179
HEIGHT
1448
20-Jun-2023
18:22
linh
pham



AFTER

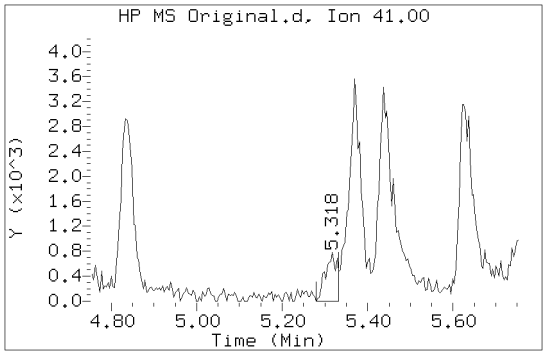
MASS
56
AREA
3179
HEIGHT
1448
20-Jun-2023
18:22
linh
pham



Reason Code:

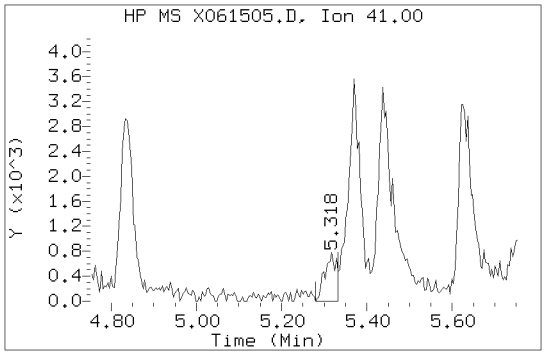
BEFORE

MASS
41
AREA
1455
HEIGHT
782
20-Jun-2023
18:22
linh
pham



AFTER

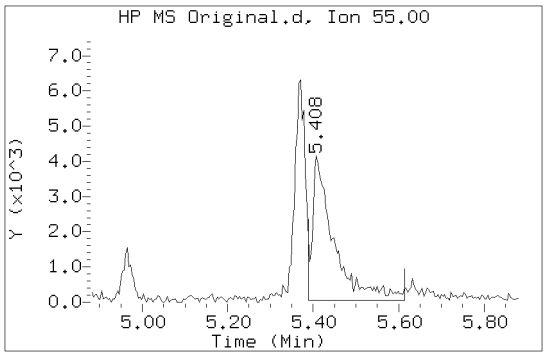
MASS
41
AREA
1455
HEIGHT
782
20-Jun-2023
18:22
linh
pham



Ethyl Acrylate (140-88-5)

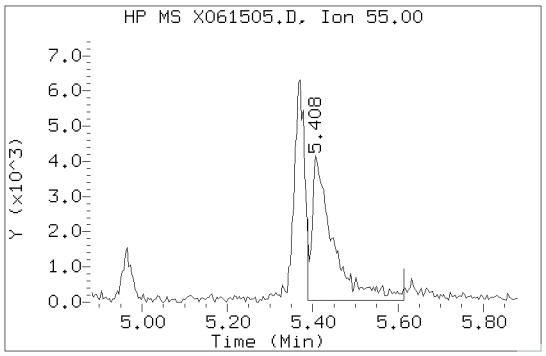
BEFORE

MASS
55
AREA
14275
HEIGHT
4107
20-Jun-2023
18:22
linh
pham



AFTER

MASS
55
AREA
14275
HEIGHT
4107
20-Jun-2023
18:22
linh
pham



Reason Code:

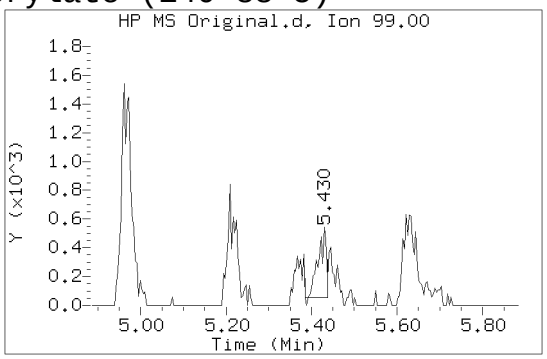
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

Ethyl Acrylate (140-88-5)

Reason Code:

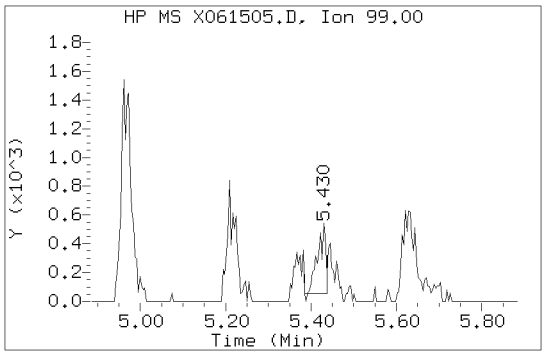
BEFORE

MASS
99
AREA
625
HEIGHT
488
20-Jun-2023
18:22
linh
pham



AFTER

MASS
99
AREA
625
HEIGHT
488
20-Jun-2023
18:22
linh
pham

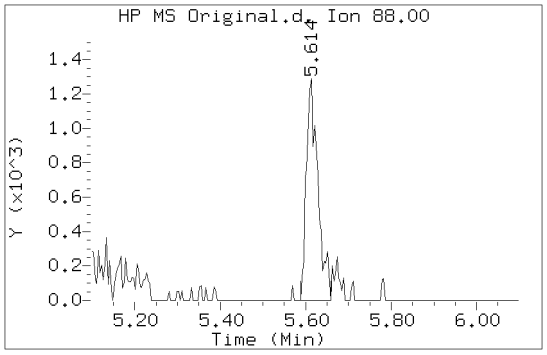


1,4-Dioxane ()

Reason Code:

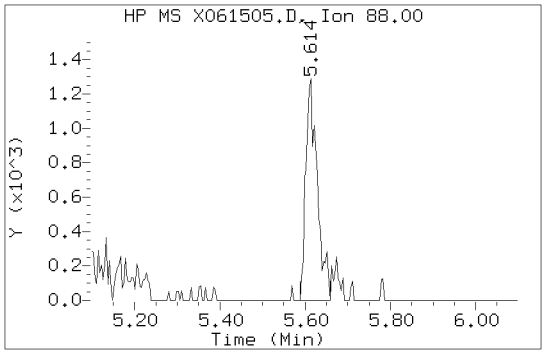
BEFORE

MASS
88
AREA
2444
HEIGHT
1289
20-Jun-2023
18:22
linh
pham



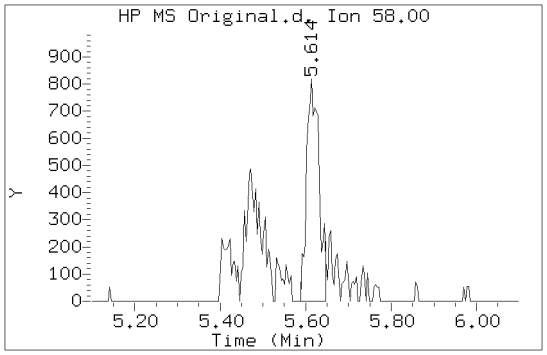
AFTER

MASS
88
AREA
2444
HEIGHT
1289
20-Jun-2023
18:22
linh
pham



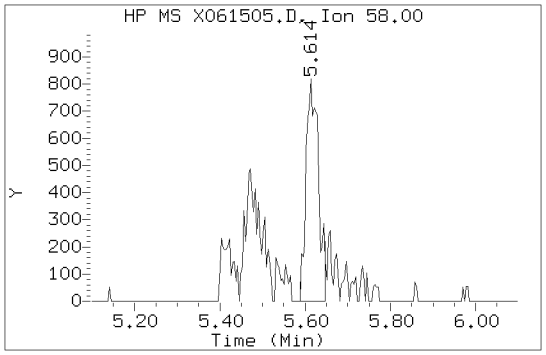
BEFORE

MASS
58
AREA
1653
HEIGHT
819
20-Jun-2023
18:22
linh
pham



AFTER

MASS
58
AREA
1653
HEIGHT
819
20-Jun-2023
18:22
linh
pham

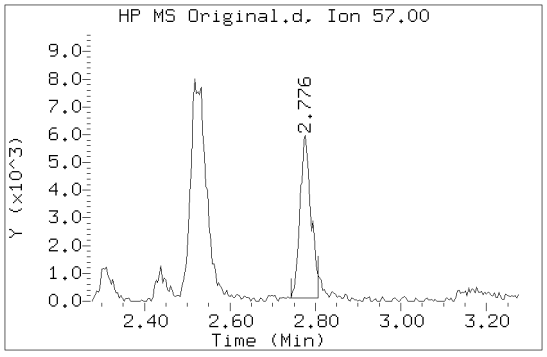


n-Hexane (110-54-3)

Reason Code:

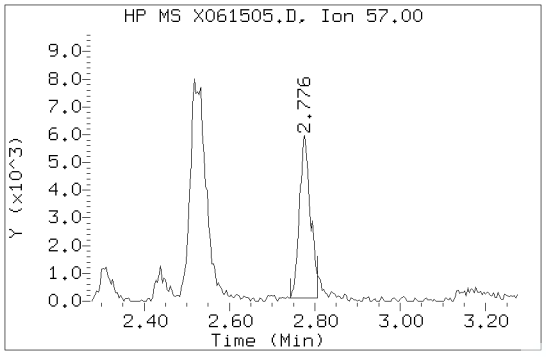
BEFORE

MASS
57
AREA
10696
HEIGHT
5866
20-Jun-2023
18:22
linh
pham



AFTER

MASS
57
AREA
10696
HEIGHT
5866
20-Jun-2023
18:22
linh
pham

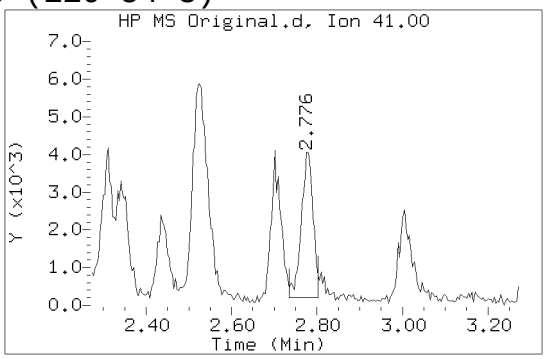


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

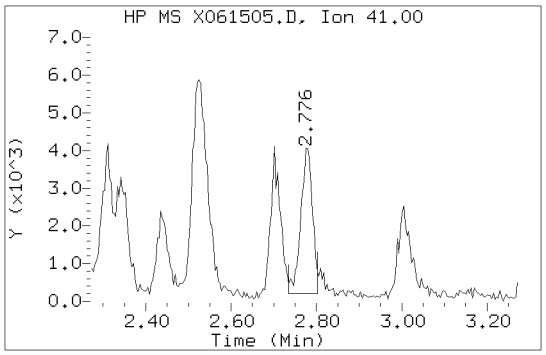
n-Hexane (110-54-3)

Reason Code:

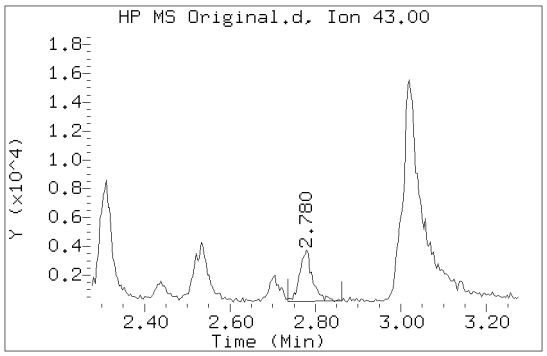
BEFORE
MASS
41
AREA
7540
HEIGHT
3854
20-Jun-2023
18:22
linh
pham



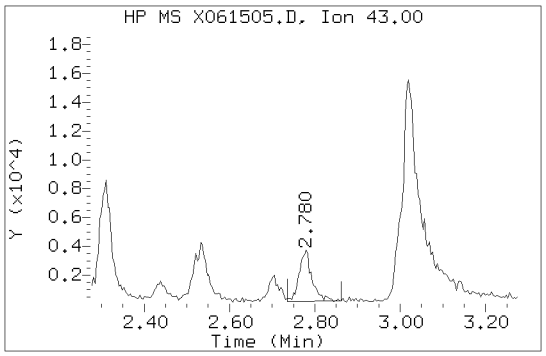
AFTER
MASS
41
AREA
7540
HEIGHT
3854
20-Jun-2023
18:22
linh
pham



BEFORE
MASS
43
AREA
7477
HEIGHT
3518
20-Jun-2023
18:22
linh
pham



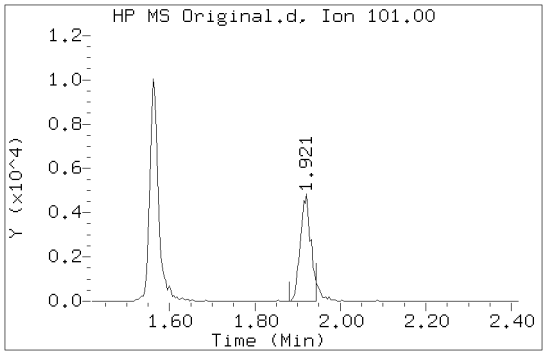
AFTER
MASS
43
AREA
7477
HEIGHT
3518
20-Jun-2023
18:22
linh
pham



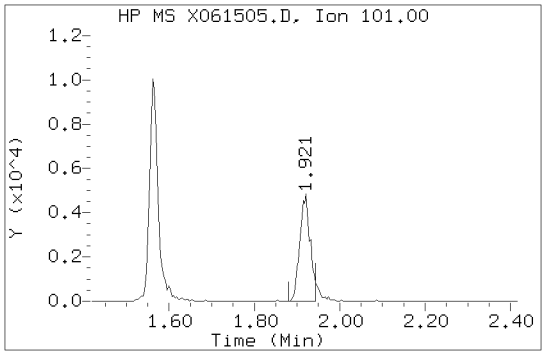
Freon TF (76-13-1)

Reason Code:

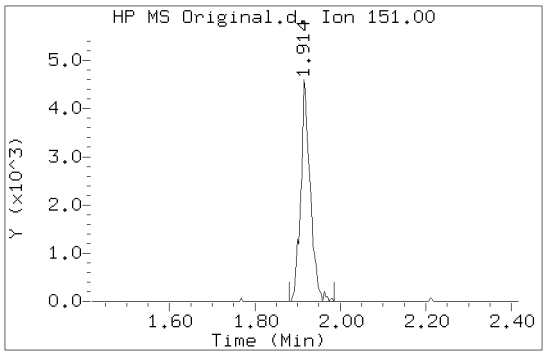
BEFORE
MASS
101
AREA
8361
HEIGHT
4850
20-Jun-2023
18:22
linh
pham



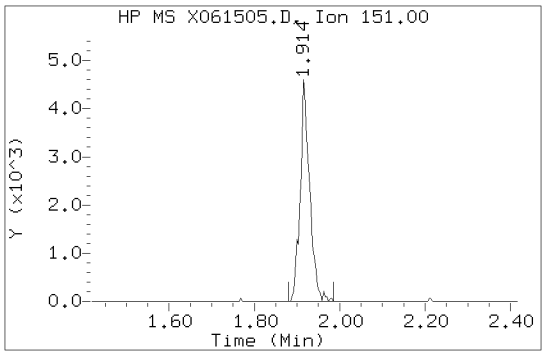
AFTER
MASS
101
AREA
8361
HEIGHT
4850
20-Jun-2023
18:22
linh
pham



BEFORE
MASS
151
AREA
7295
HEIGHT
4601
20-Jun-2023
18:22
linh
pham



AFTER
MASS
151
AREA
7295
HEIGHT
4601
20-Jun-2023
18:22
linh
pham



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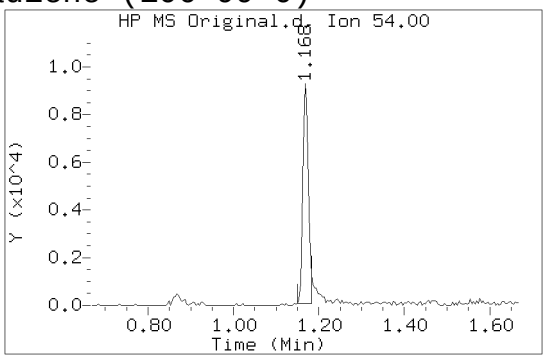
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

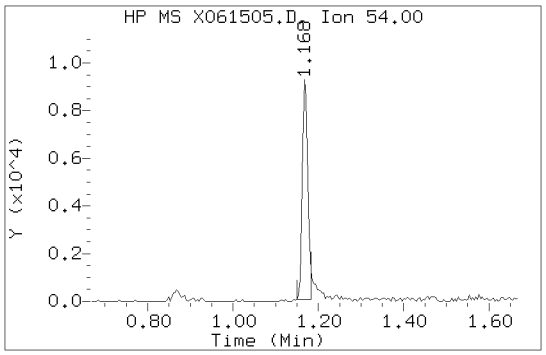
1,3-Butadiene (106-99-0)

Reason Code:

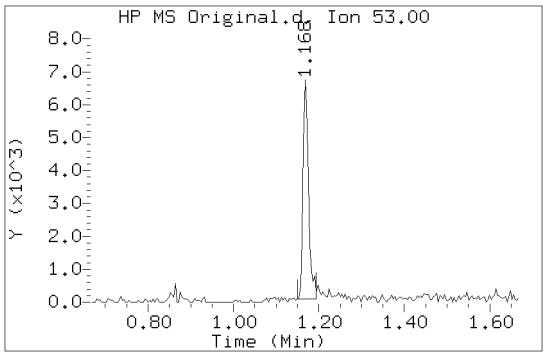
BEFORE
MASS
54
AREA
8478
HEIGHT
9216
20-Jun-2023
18:22
linh
pham



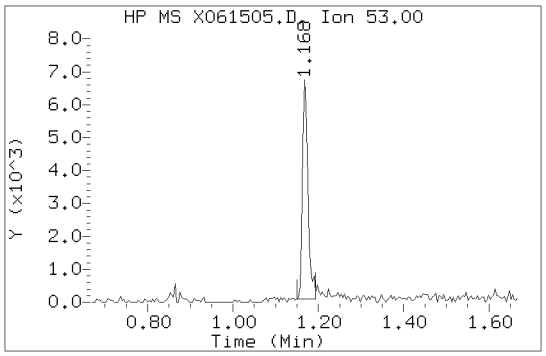
AFTER
MASS
54
AREA
8478
HEIGHT
9216
20-Jun-2023
18:22
linh
pham



BEFORE
MASS
53
AREA
6095
HEIGHT
6659
20-Jun-2023
18:22
linh
pham



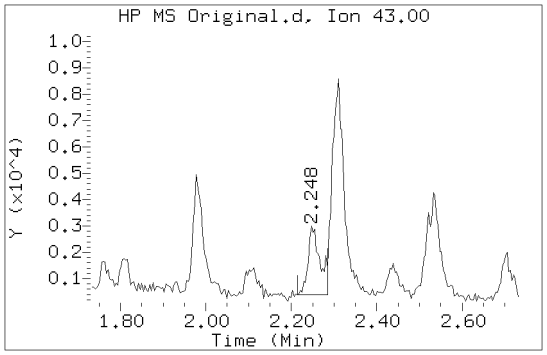
AFTER
MASS
53
AREA
6095
HEIGHT
6659
20-Jun-2023
18:22
linh
pham



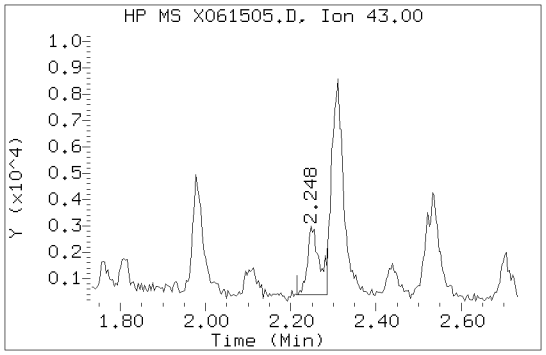
Methyl acetate (79-20-9)

Reason Code:

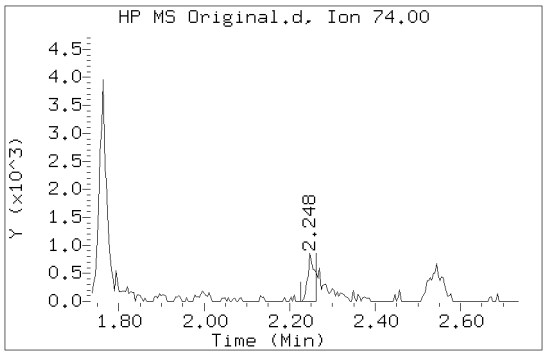
BEFORE
MASS
43
AREA
5157
HEIGHT
2617
20-Jun-2023
18:22
linh
pham



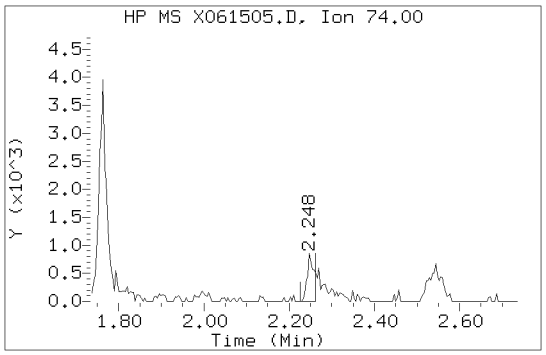
AFTER
MASS
43
AREA
5157
HEIGHT
2617
20-Jun-2023
18:22
linh
pham



BEFORE
MASS
74
AREA
940
HEIGHT
855
20-Jun-2023
18:22
linh
pham



AFTER
MASS
74
AREA
940
HEIGHT
855
20-Jun-2023
18:22
linh
pham



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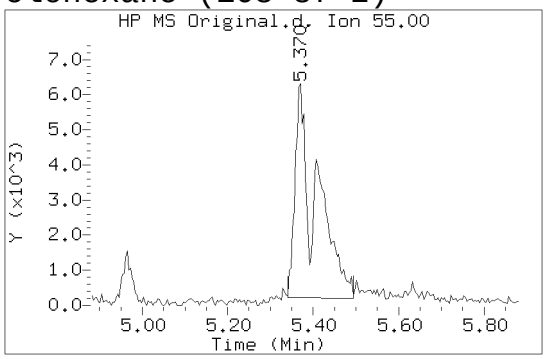
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

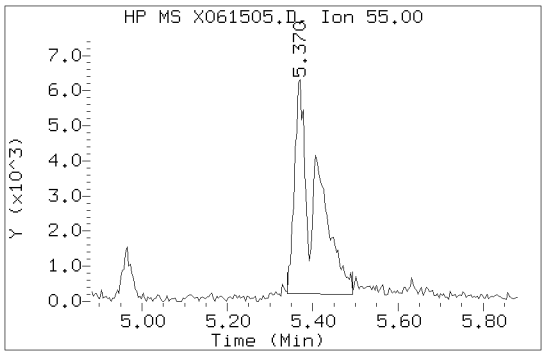
Methylcyclohexane (108-87-2)

Reason Code:

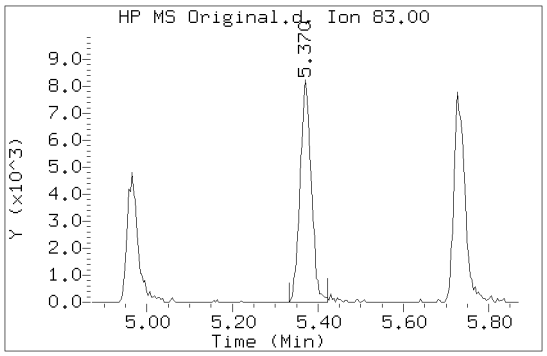
BEFORE
MASS
55
AREA
20990
HEIGHT
6091
20-Jun-2023
18:22
linh
pham



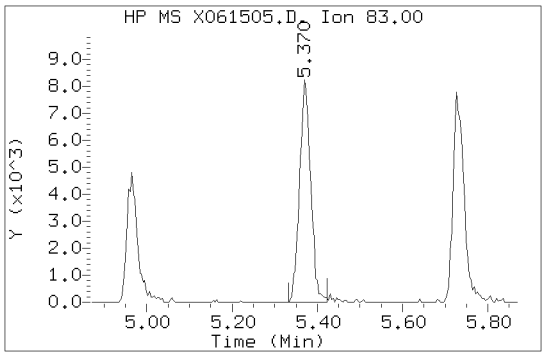
AFTER
MASS
55
AREA
20990
HEIGHT
6091
20-Jun-2023
18:22
linh
pham



BEFORE
MASS
83
AREA
15282
HEIGHT
8235
20-Jun-2023
18:22
linh
pham



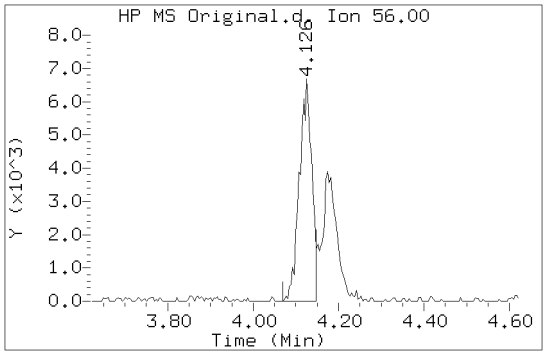
AFTER
MASS
83
AREA
15282
HEIGHT
8235
20-Jun-2023
18:22
linh
pham



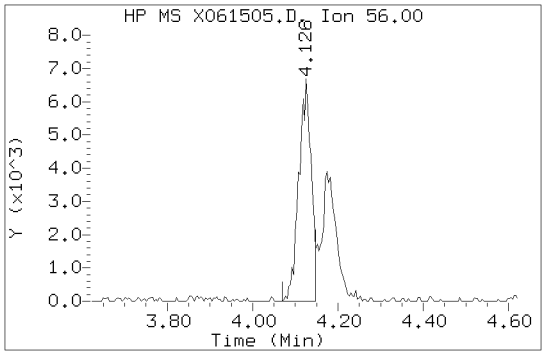
Cyclohexane (110-82-7)

Reason Code:

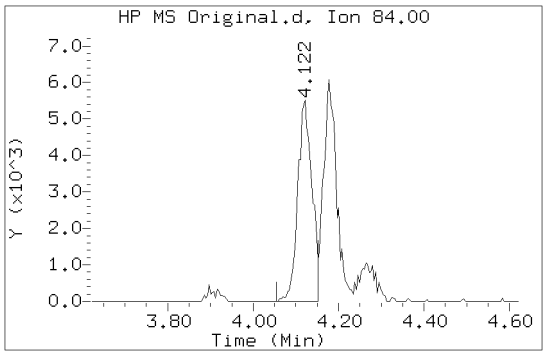
BEFORE
MASS
56
AREA
13787
HEIGHT
6686
20-Jun-2023
18:22
linh
pham



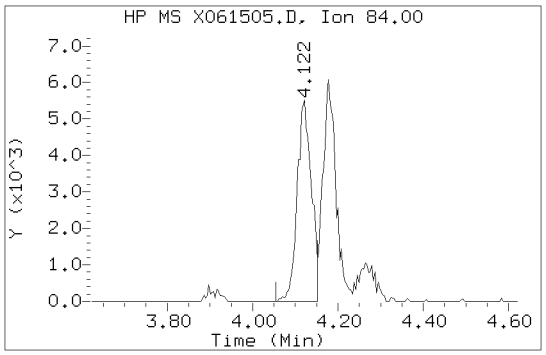
AFTER
MASS
56
AREA
13787
HEIGHT
6686
20-Jun-2023
18:22
linh
pham



BEFORE
MASS
84
AREA
12922
HEIGHT
5508
20-Jun-2023
18:22
linh
pham



AFTER
MASS
84
AREA
12922
HEIGHT
5508
20-Jun-2023
18:22
linh
pham



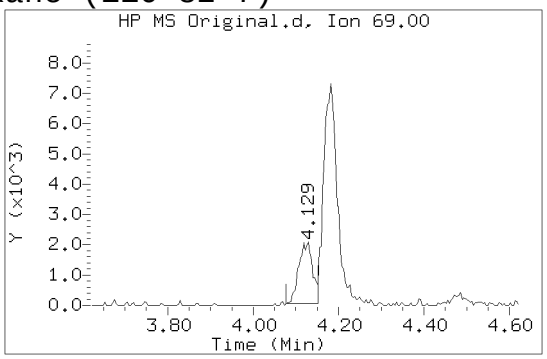
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

Cyclohexane (110-82-7)

Reason Code:

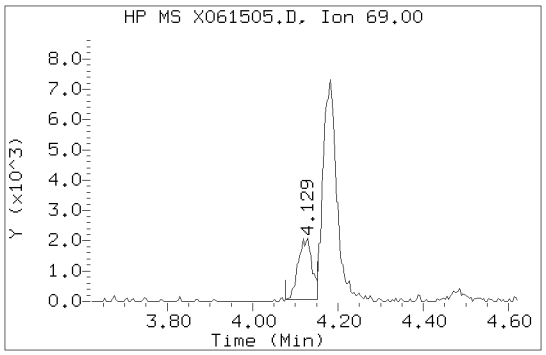
BEFORE

MASS
69
AREA
4668
HEIGHT
2038
20-Jun-2023
18:22
linh
pham



AFTER

MASS
69
AREA
4668
HEIGHT
2038
20-Jun-2023
18:22
linh
pham

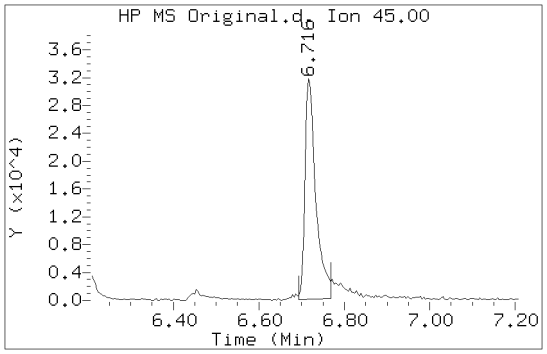


4-Methyl-2-pentanol (108-11-2)

Reason Code:

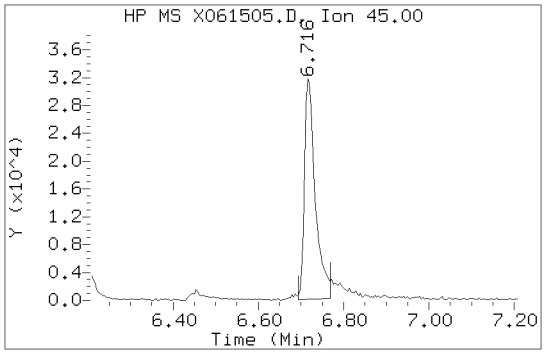
BEFORE

MASS
45
AREA
56864
HEIGHT
31680
20-Jun-2023
18:22
linh
pham



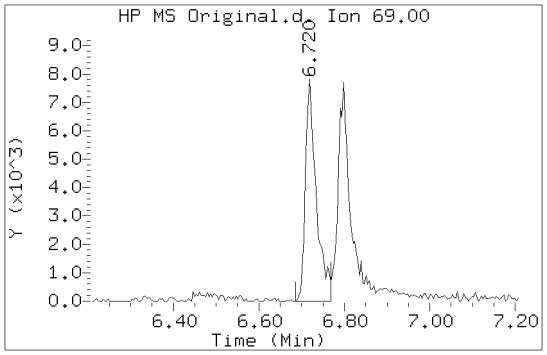
AFTER

MASS
45
AREA
56864
HEIGHT
31680
20-Jun-2023
18:22
linh
pham



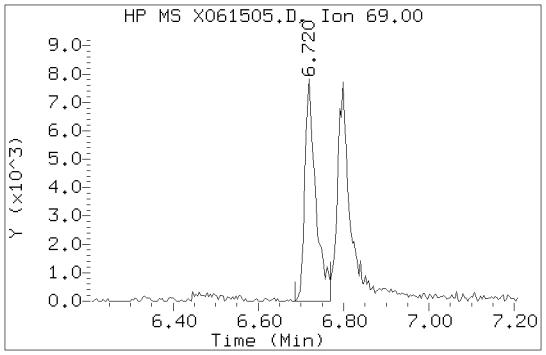
BEFORE

MASS
69
AREA
14049
HEIGHT
7830
20-Jun-2023
18:22
linh
pham



AFTER

MASS
69
AREA
14049
HEIGHT
7830
20-Jun-2023
18:22
linh
pham

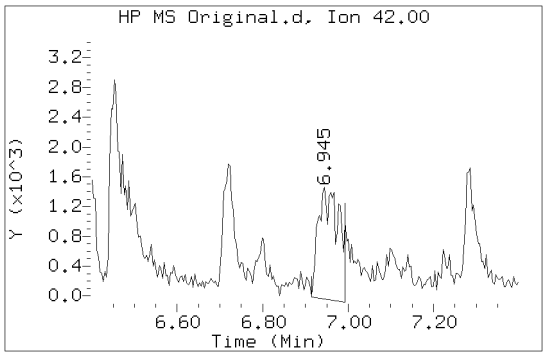


Amyl alcohol (71-41-0)

Reason Code:

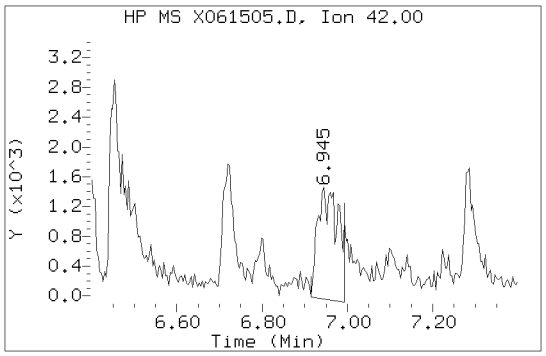
BEFORE

MASS
42
AREA
5090
HEIGHT
1499
20-Jun-2023
18:22
linh
pham



AFTER

MASS
42
AREA
5090
HEIGHT
1499
20-Jun-2023
18:22
linh
pham



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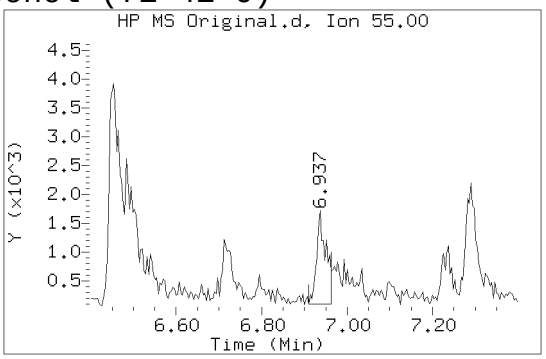
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

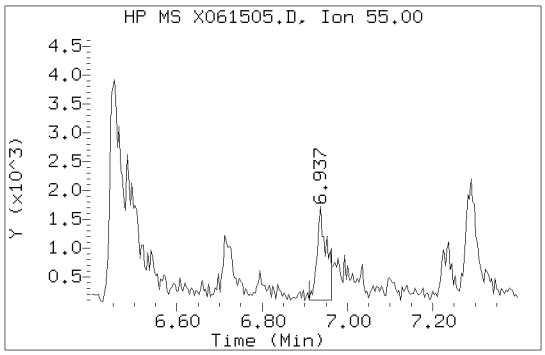
Amyl alcohol (71-41-0)

Reason Code:

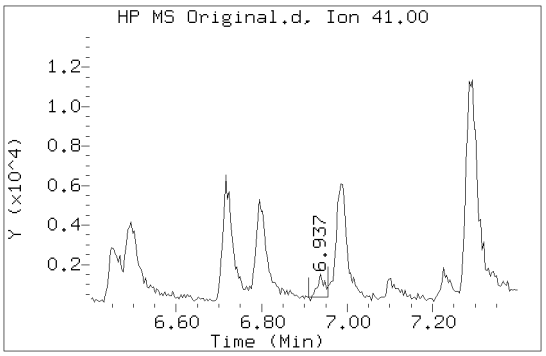
BEFORE
MASS
55
AREA
2484
HEIGHT
1619
20-Jun-2023
18:22
linh
pham



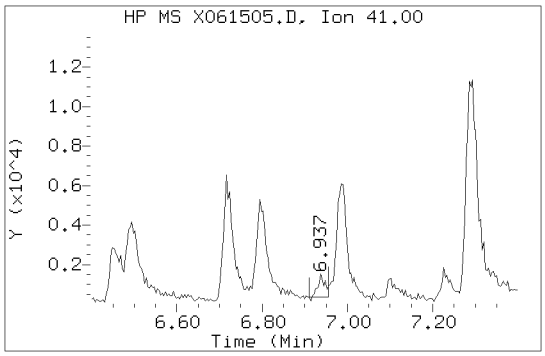
AFTER
MASS
55
AREA
2484
HEIGHT
1619
20-Jun-2023
18:22
linh
pham



BEFORE
MASS
41
AREA
1377
HEIGHT
1194
20-Jun-2023
18:22
linh
pham



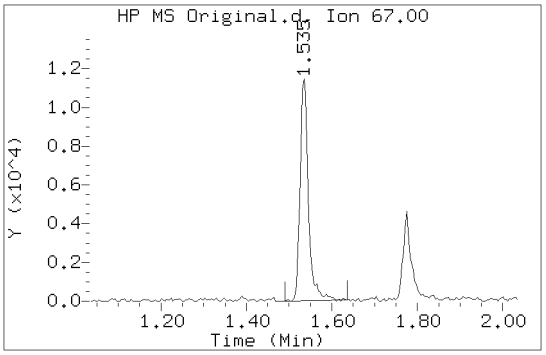
AFTER
MASS
41
AREA
1377
HEIGHT
1194
20-Jun-2023
18:22
linh
pham



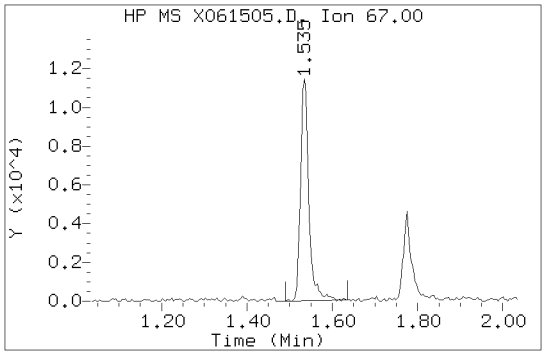
Dichlorofluoromethane (75-43-4)

Reason Code:

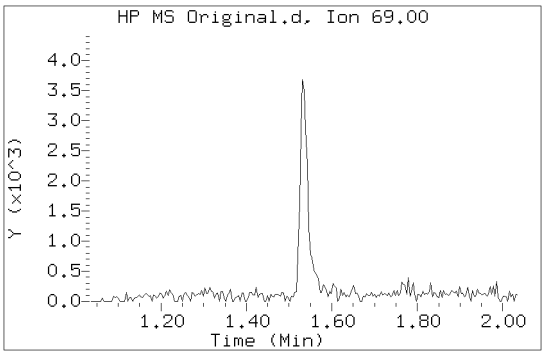
BEFORE
MASS
67
AREA
15880
HEIGHT
11454
20-Jun-2023
18:22
linh
pham



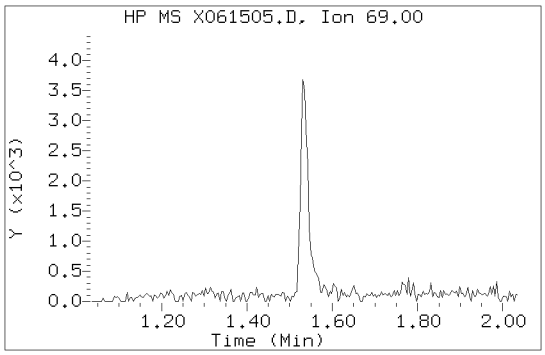
AFTER
MASS
67
AREA
15880
HEIGHT
11454
20-Jun-2023
18:22
linh
pham



BEFORE
MASS
69
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



AFTER
MASS
69
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



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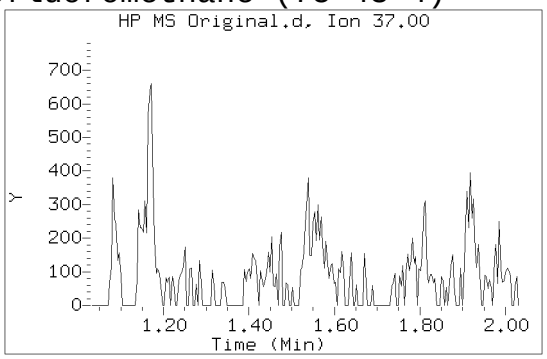
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

Dichlorofluoromethane (75-43-4)

Reason Code:

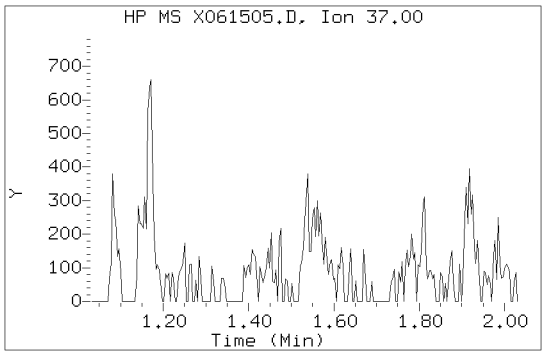
BEFORE

MASS
37
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



AFTER

MASS
37
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

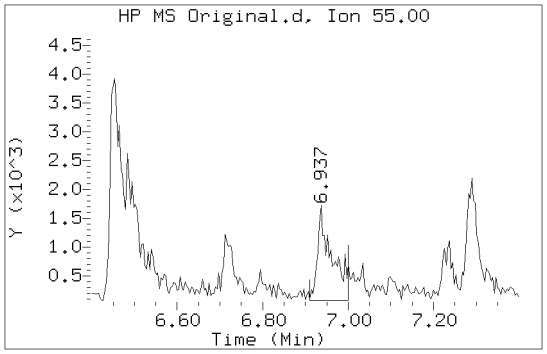


3-Methyl-1-butanol (123-51-3)

Reason Code:

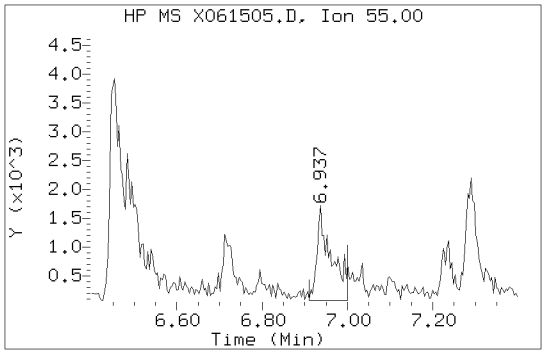
BEFORE

MASS
55
AREA
3850
HEIGHT
1643
20-Jun-2023
18:22
linh
pham



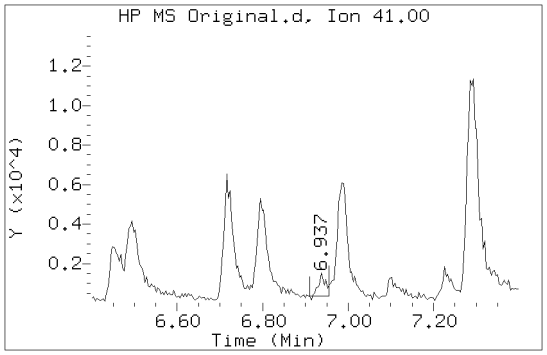
AFTER

MASS
55
AREA
3850
HEIGHT
1643
20-Jun-2023
18:22
linh
pham



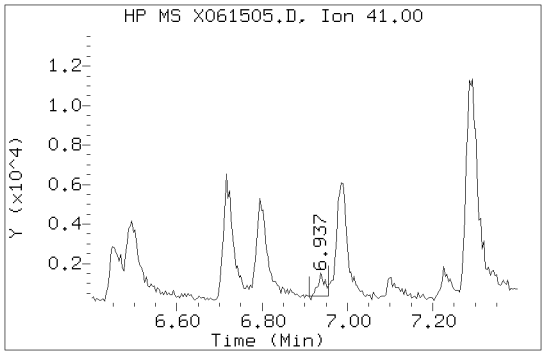
BEFORE

MASS
41
AREA
1377
HEIGHT
1194
20-Jun-2023
18:22
linh
pham



AFTER

MASS
41
AREA
1377
HEIGHT
1194
20-Jun-2023
18:22
linh
pham

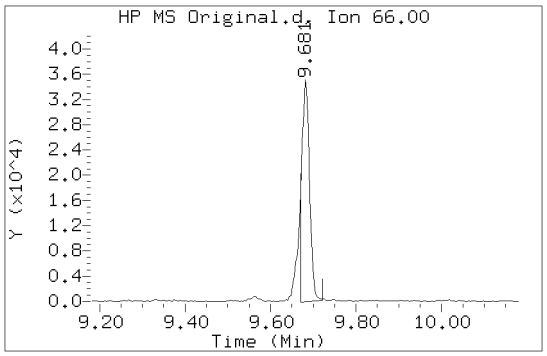


Dicyclopentadiene (77-73-6)

Reason Code:

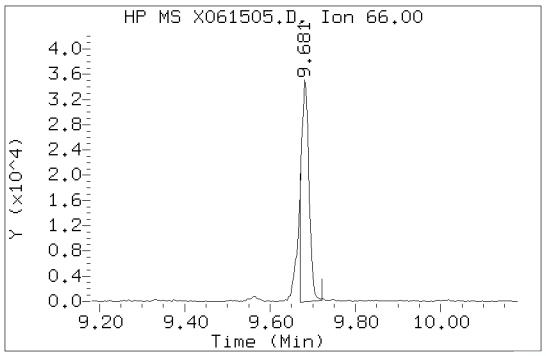
BEFORE

MASS
66
AREA
45923
HEIGHT
35155
20-Jun-2023
18:22
linh
pham



AFTER

MASS
66
AREA
45923
HEIGHT
35155
20-Jun-2023
18:22
linh
pham



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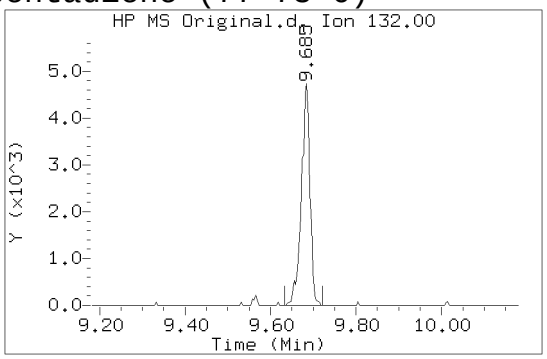
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

Dicyclopentadiene (77-73-6)

Reason Code:

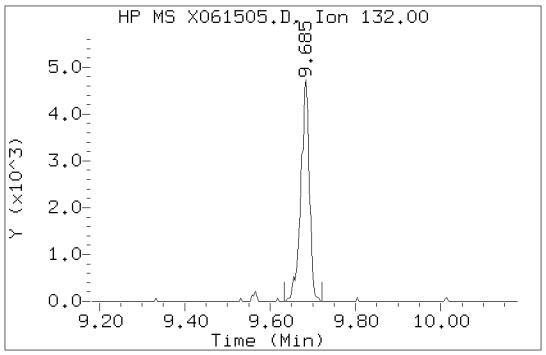
BEFORE

MASS
132
AREA
6793
HEIGHT
4734
20-Jun-2023
18:22
linh
pham



AFTER

MASS
132
AREA
6793
HEIGHT
4734
20-Jun-2023
18:22
linh
pham

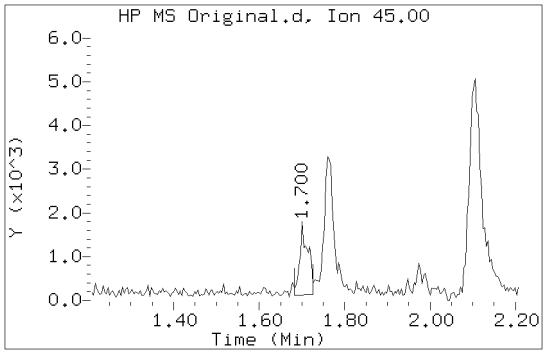


Ethanol (64-17-5)

Reason Code:

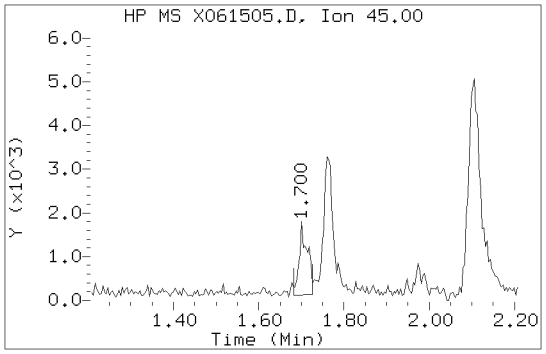
BEFORE

MASS
45
AREA
2336
HEIGHT
1678
20-Jun-2023
18:22
linh
pham



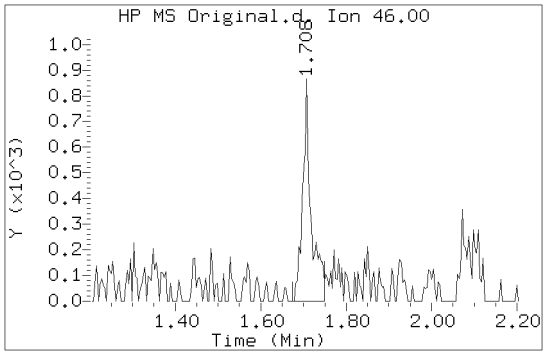
AFTER

MASS
45
AREA
2336
HEIGHT
1678
20-Jun-2023
18:22
linh
pham



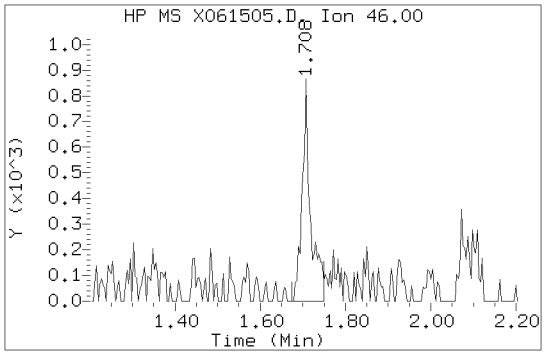
BEFORE

MASS
46
AREA
1210
HEIGHT
866
20-Jun-2023
18:22
linh
pham



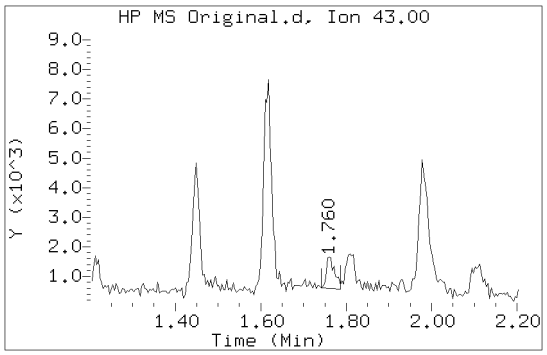
AFTER

MASS
46
AREA
1210
HEIGHT
866
20-Jun-2023
18:22
linh
pham



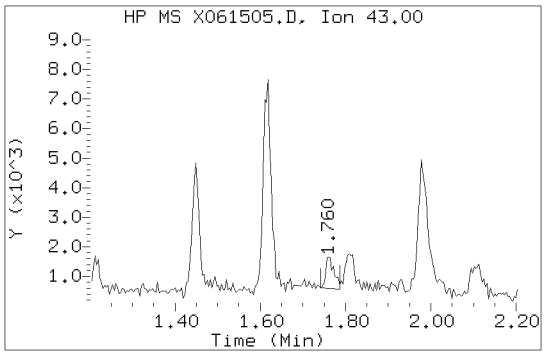
BEFORE

MASS
43
AREA
1441
HEIGHT
1055
20-Jun-2023
18:22
linh
pham



AFTER

MASS
43
AREA
1441
HEIGHT
1055
20-Jun-2023
18:22
linh
pham



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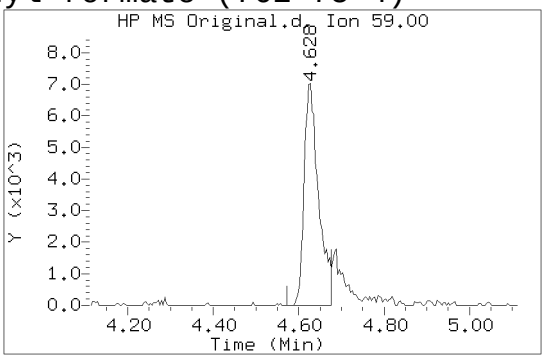
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

tert-Butyl formate (762-75-4)

Reason Code:

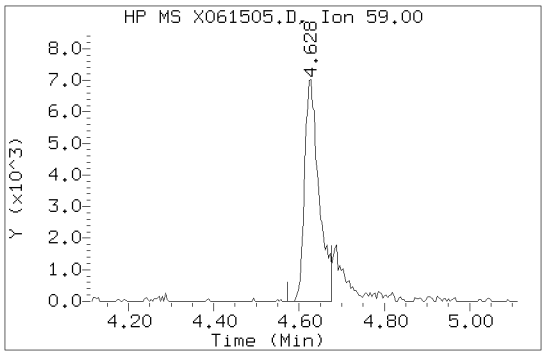
BEFORE

MASS
59
AREA
16716
HEIGHT
7019
20-Jun-2023
18:22
linh
pham



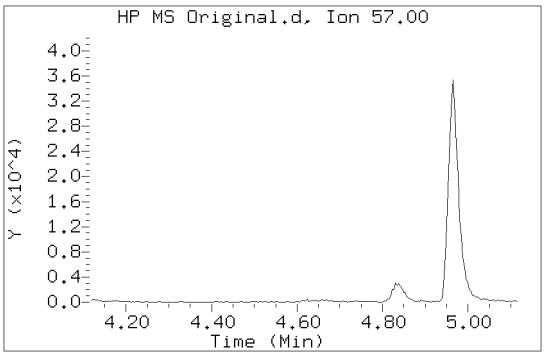
AFTER

MASS
59
AREA
16716
HEIGHT
7019
20-Jun-2023
18:22
linh
pham



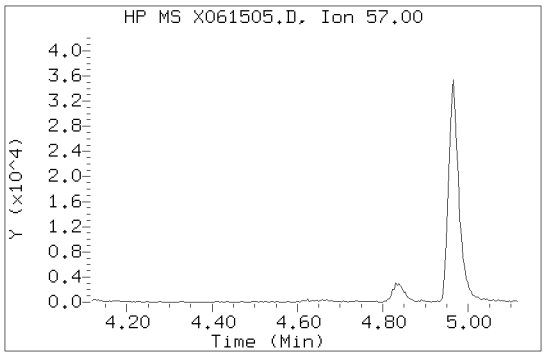
BEFORE

MASS
57
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



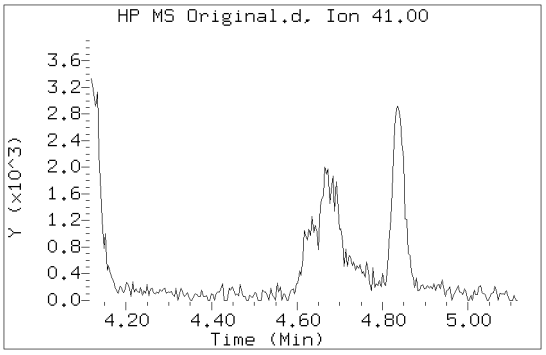
AFTER

MASS
57
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



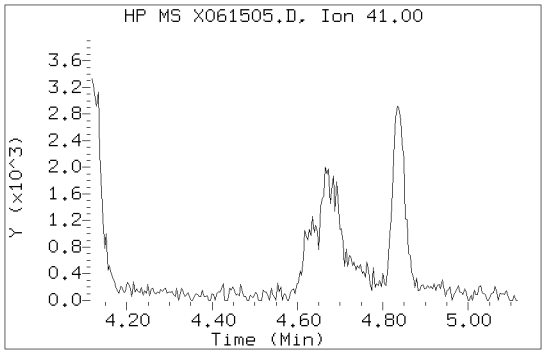
BEFORE

MASS
41
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



AFTER

MASS
41
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

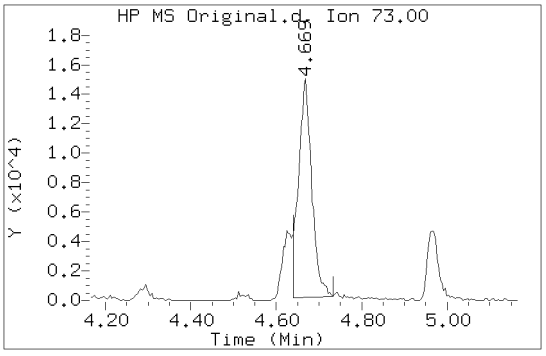


tert-Amyl methyl ether (974-05-08)

Reason Code:

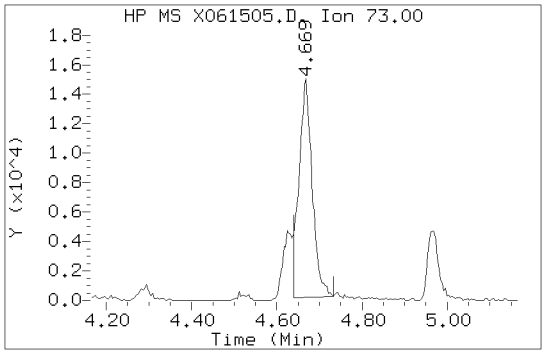
BEFORE

MASS
73
AREA
32910
HEIGHT
14863
20-Jun-2023
18:22
linh
pham



AFTER

MASS
73
AREA
32910
HEIGHT
14863
20-Jun-2023
18:22
linh
pham



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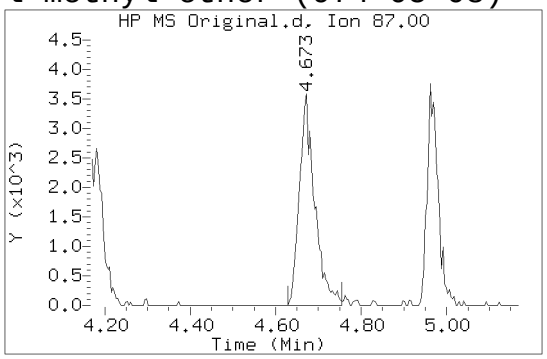
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

tert-Amyl methyl ether (974-05-08)

Reason Code:

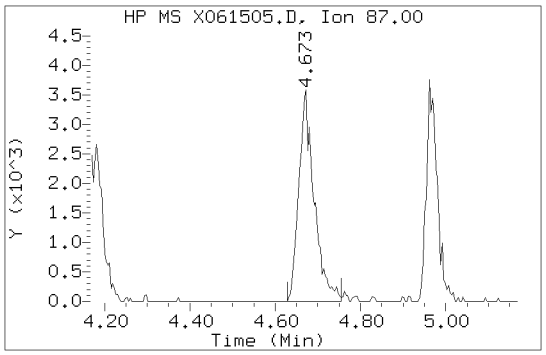
BEFORE

MASS
87
AREA
9052
HEIGHT
3583
20-Jun-2023
18:22
linh
pham



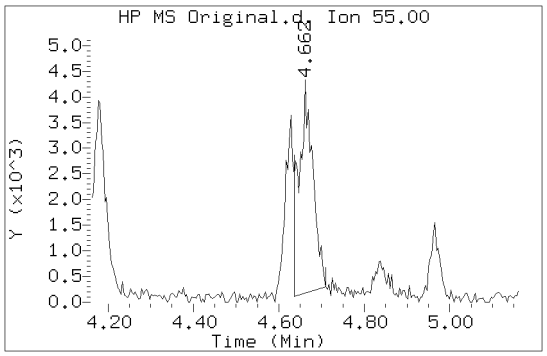
AFTER

MASS
87
AREA
9052
HEIGHT
3583
20-Jun-2023
18:22
linh
pham



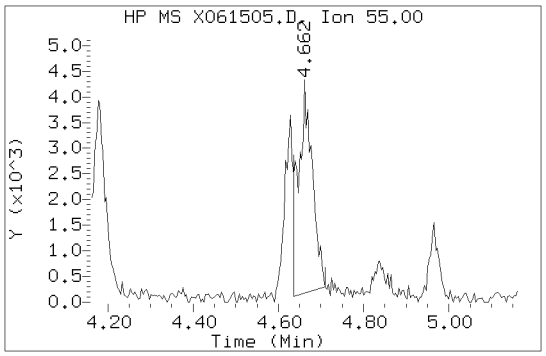
BEFORE

MASS
55
AREA
9699
HEIGHT
4151
20-Jun-2023
18:22
linh
pham



AFTER

MASS
55
AREA
9699
HEIGHT
4151
20-Jun-2023
18:22
linh
pham

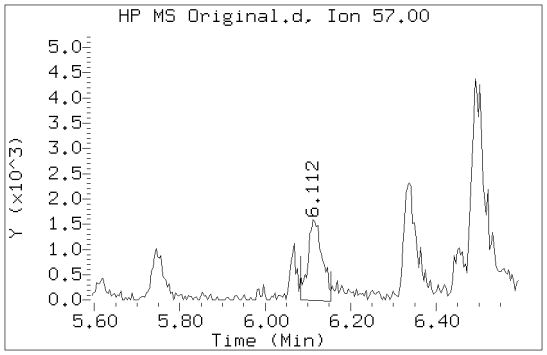


Epichlorohydrin (106-89-8)

Reason Code:

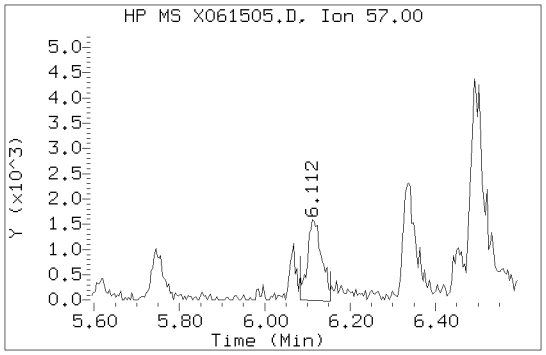
BEFORE

MASS
57
AREA
3820
HEIGHT
1601
20-Jun-2023
18:22
linh
pham



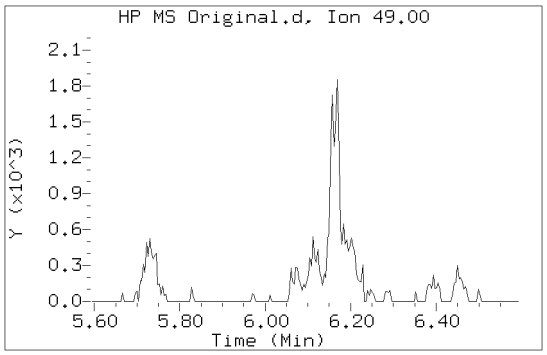
AFTER

MASS
57
AREA
3820
HEIGHT
1601
20-Jun-2023
18:22
linh
pham



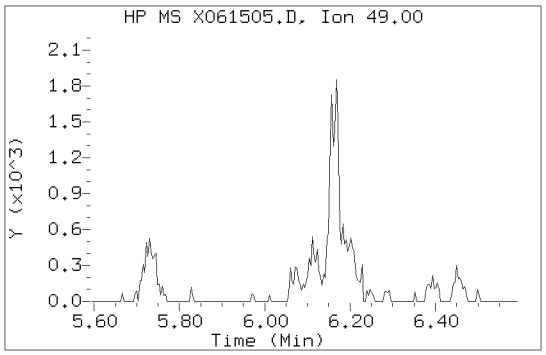
BEFORE

MASS
49
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



AFTER

MASS
49
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



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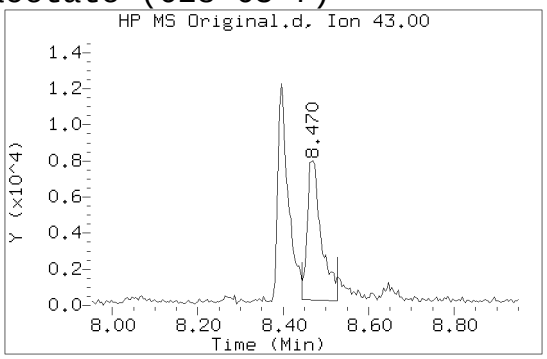
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

n-Amyl acetate (628-63-7)

Reason Code:

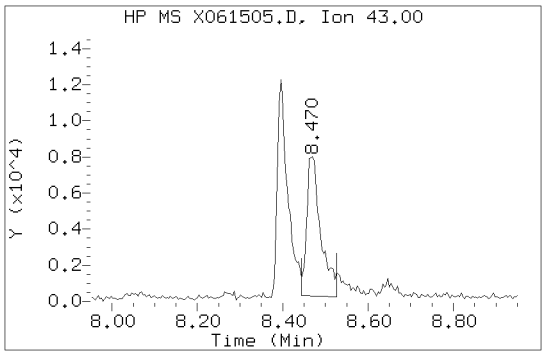
BEFORE

MASS
43
AREA
18078
HEIGHT
7749
20-Jun-2023
18:22
linh
pham



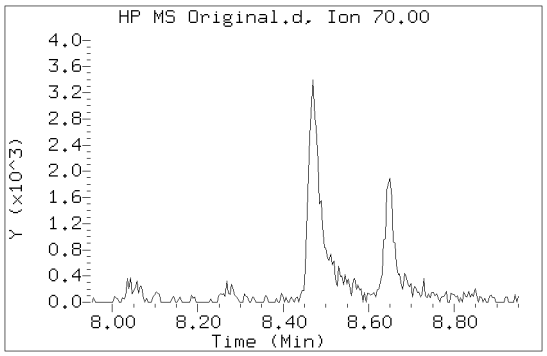
AFTER

MASS
43
AREA
18078
HEIGHT
7749
20-Jun-2023
18:22
linh
pham



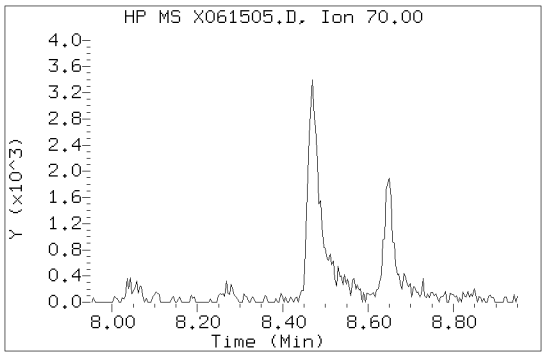
BEFORE

MASS
70
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



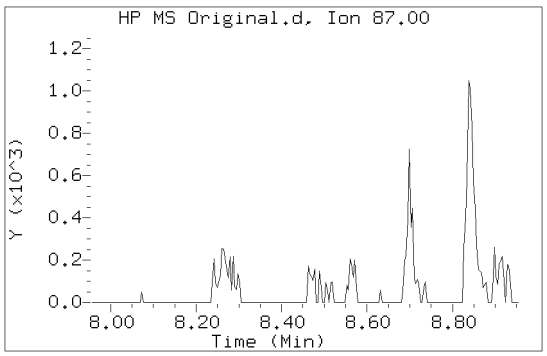
AFTER

MASS
70
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



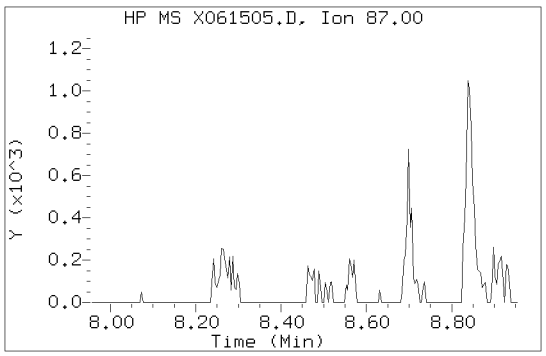
BEFORE

MASS
87
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



AFTER

MASS
87
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

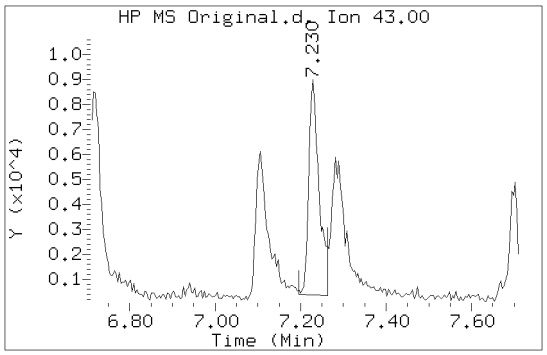


n-Butyl acetate (123-86-4)

Reason Code:

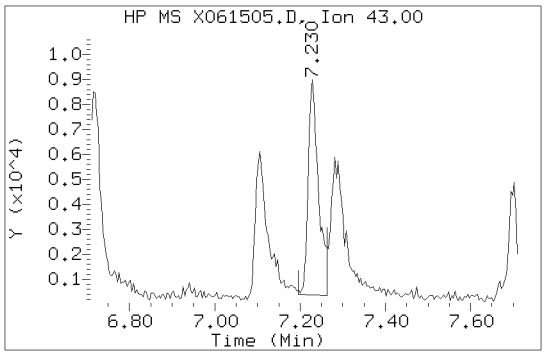
BEFORE

MASS
43
AREA
14580
HEIGHT
8610
20-Jun-2023
18:22
linh
pham



AFTER

MASS
43
AREA
14580
HEIGHT
8610
20-Jun-2023
18:22
linh
pham



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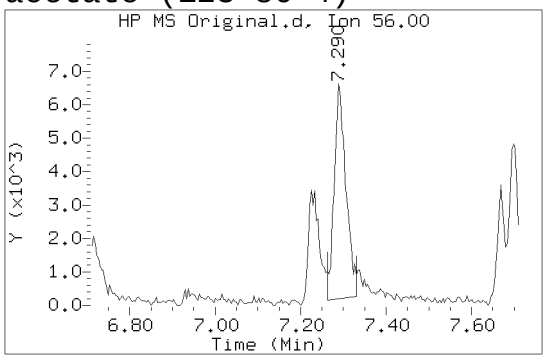
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

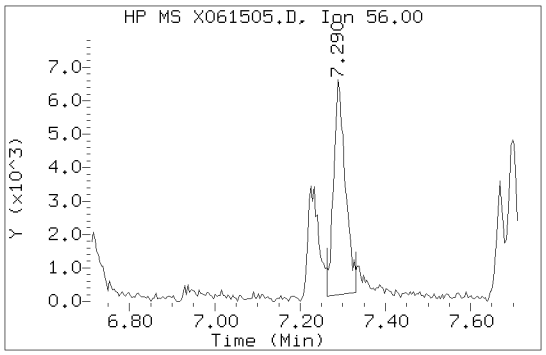
n-Butyl acetate (123-86-4)

BEFORE
MASS
56
AREA
12380
HEIGHT
6432
20-Jun-2023
18:22
linh
pham

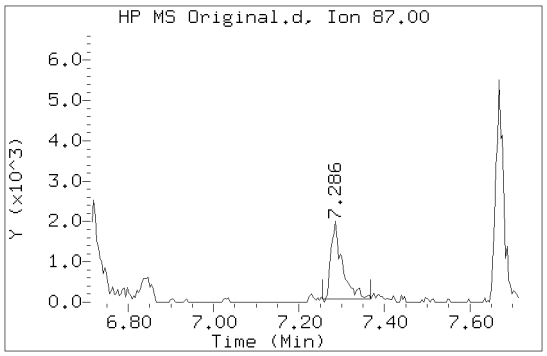


Reason Code:

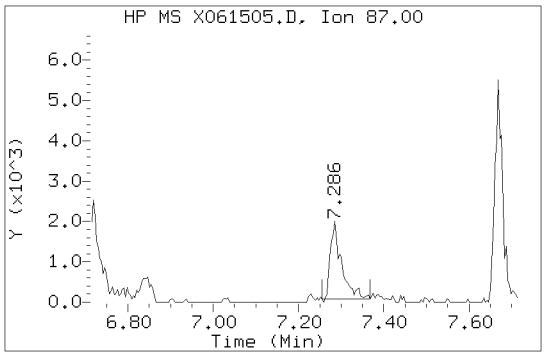
AFTER
MASS
56
AREA
12380
HEIGHT
6432
20-Jun-2023
18:22
linh
pham



BEFORE
MASS
87
AREA
3534
HEIGHT
1937
20-Jun-2023
18:22
linh
pham

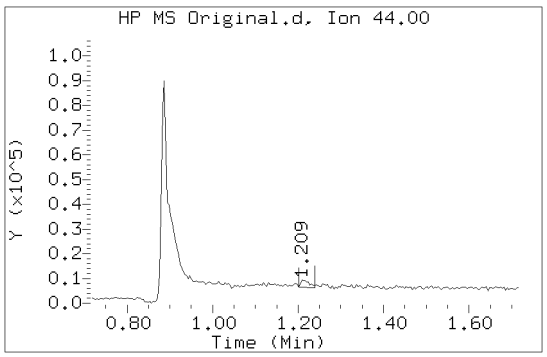


AFTER
MASS
87
AREA
3534
HEIGHT
1937
20-Jun-2023
18:22
linh
pham



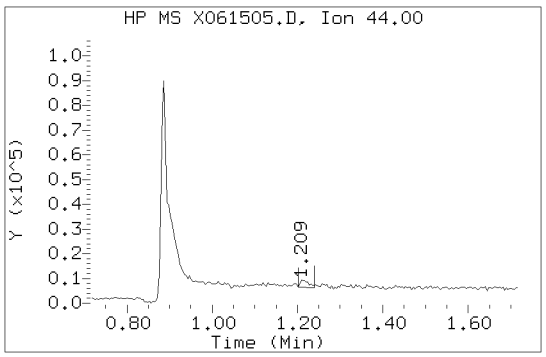
Acetaldehyde (75-07-0)

BEFORE
MASS
44
AREA
4310
HEIGHT
3066
20-Jun-2023
18:22
linh
pham

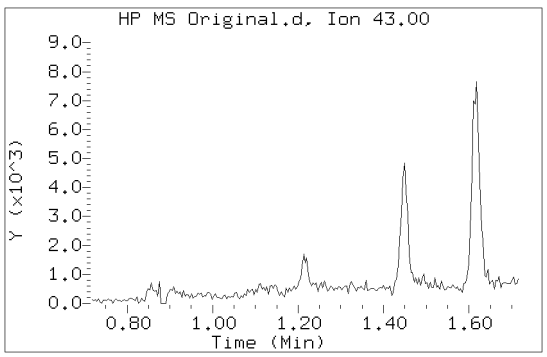


Reason Code:

AFTER
MASS
44
AREA
4310
HEIGHT
3066
20-Jun-2023
18:22
linh
pham



BEFORE
MASS
43
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



AFTER
MASS
43
AREA
0
HEIGHT
0
20-Jun-2023
18:22
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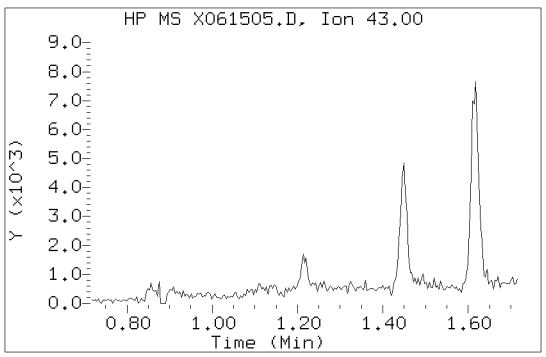

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Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

Acetaldehyde (75-07-0)

Reason Code:

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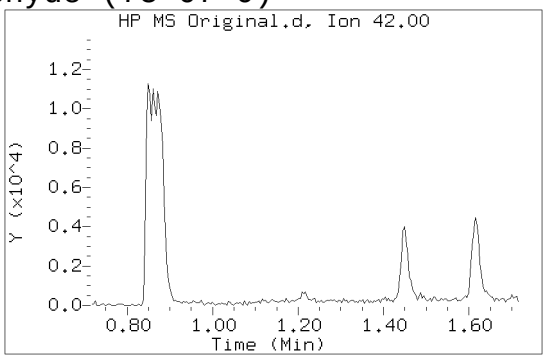

AFTER

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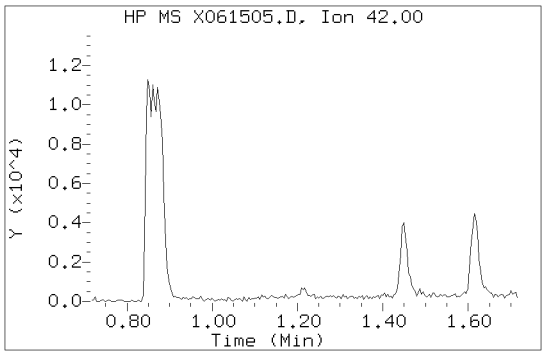

Isobutylene (115-11-7)

Reason Code:

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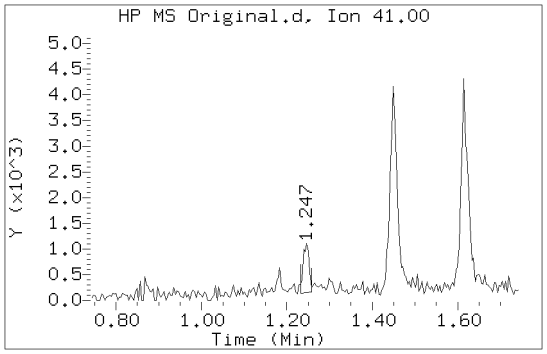

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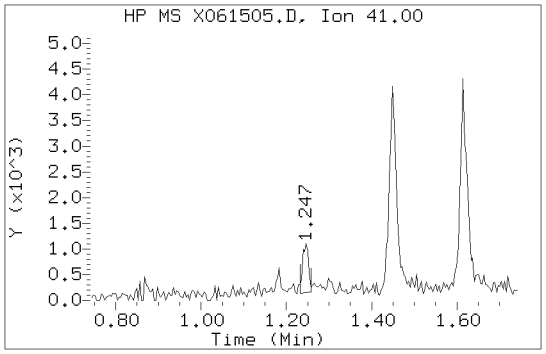

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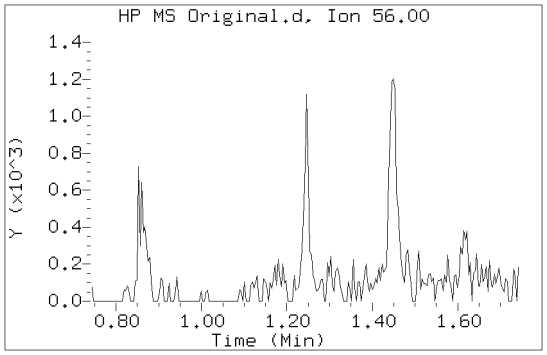

AFTER

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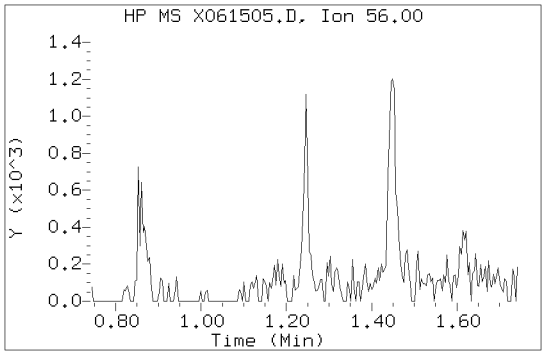

BEFORE

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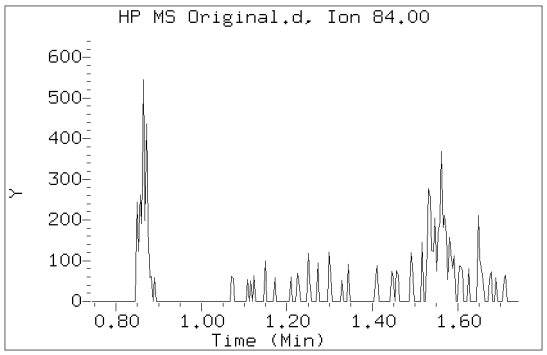

AFTER

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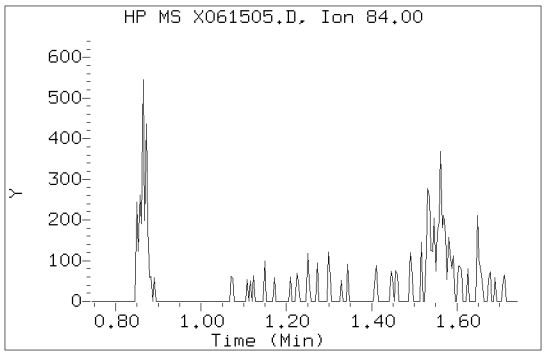

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Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

BEFORE

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20-Jun-2023
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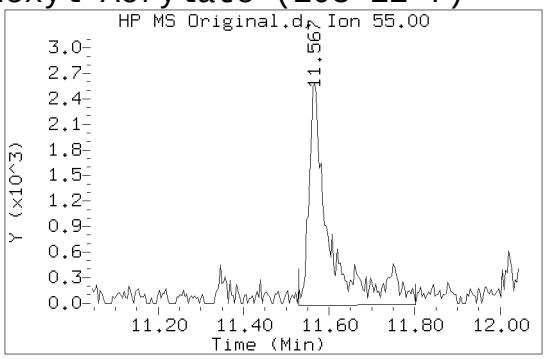

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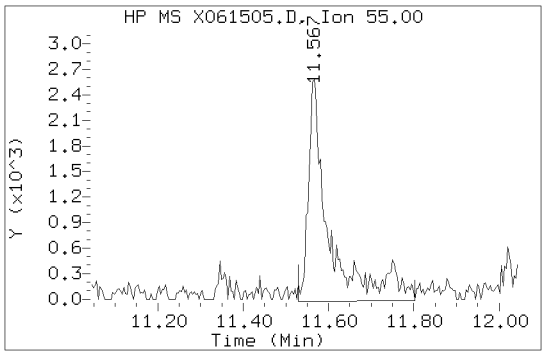

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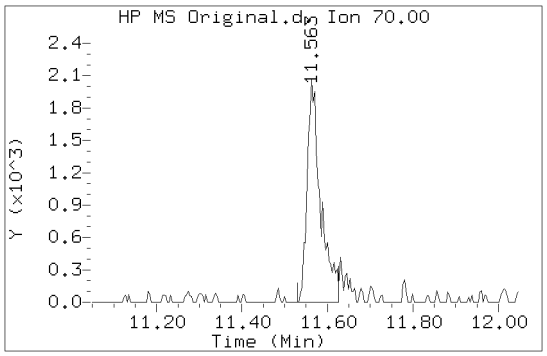

AFTER

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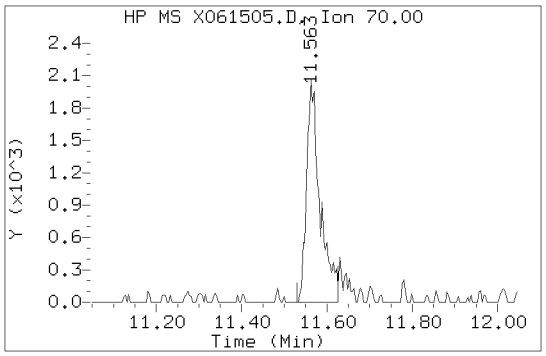

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061506.D Page 1
Report Date: 05-Jul-2023 13:00

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061506.D
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 15-JUN-2023 13:00
Operator : PC Inst ID: voa6.i
Smp Info : VSTD005;VSTD005;1;5;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:00 Cal File: X061506.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.177	4.177	(1.000)	488017	50.0000	
2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	21019	5.00000	5.29
3	Chloromethane	50	1.081	1.081	(0.259)	25651	5.00000	5.89
4	Propionitrile	54	3.668	3.668	(0.878)	29713	50.0000	50.34(a)
5	Vinyl Chloride	62	1.145	1.145	(0.274)	23889	5.00000	4.66
6	Bromomethane	94	1.343	1.343	(0.322)	14528	5.00000	4.93(M)
7	Chloroethane	64	1.407	1.407	(0.337)	15374	5.00000	4.90
8	Trichlorofluoromethane	101	1.565	1.565	(0.375)	28710	5.00000	4.71
9	Acrolein	56	1.445	1.445	(0.346)	2991	10.0000	9.87(a)
10	Acetone	43	1.977	1.977	(0.473)	16276	10.0000	12.55
11	1,1-Dichloroethene	96	1.917	1.917	(0.459)	18352	5.00000	4.80
12	Isobutyl Alcohol	43	4.684	4.684	(1.121)	68348	100.000	107.41(a)
13	Acetonitrile	39	2.206	2.206	(0.528)	24760	50.0000	52.30(a)
14	Allyl Chloride	41	2.206	2.206	(0.528)	54361	5.00000	5.07(a)
15	Iodomethane	142	2.029	2.029	(0.486)	43988	10.0000	9.17
16	Acrylonitrile	53	2.554	2.554	(0.611)	15118	10.0000	9.75(M)
17	Methylene Chloride	84	2.307	2.307	(0.552)	29661	5.00000	5.49
18	Methyl tert-butyl ether	73	2.536	2.536	(0.607)	67305	5.00000	5.04
19	Carbon Disulfide	76	2.071	2.071	(0.496)	128049	10.0000	9.41
20	trans-1,2-Dichloroethene	96	2.536	2.536	(0.607)	21908	5.00000	4.79
21	Vinyl Acetate	43	3.008	3.008	(0.720)	127281	10.0000	10.43

22 1,1-Dichloroethane	63	2.925	2.925 (0.700)	39888	5.00000	4.84
23 Chloroprene	53	1.778	1.778 (0.426)	7954	5.00000	4.90(aM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
24	2-Butanone	43	3.608	3.608	(0.864)	13344	10.0000	8.30(M)
25	Methacrylonitrile	41	3.840	3.840	(0.919)	20054	5.00000	4.98(aH)
26	2,2-Dichloropropane	77	3.514	3.514	(0.841)	33630	5.00000	5.17
27	cis-1,2-Dichloroethene	96	3.529	3.529	(0.845)	25475	5.00000	4.83
28	Chloroform	83	3.908	3.908	(0.935)	43843	5.00000	4.94
29	Bromochloromethane	128	3.799	3.799	(0.909)	14035	5.00000	4.99
$ 30	Dibromofluoromethane	113	4.106	4.106	(0.983)	25267	5.00000	5.49
31	1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	33298	5.00000	4.64
32	1,1-Dichloropropene	75	4.282	4.282	(0.863)	31057	5.00000	4.91
33	1,2-Dichloroethane	62	4.560	4.560	(0.918)	31372	5.00000	4.95
34	Carbon Tetrachloride	117	4.267	4.267	(0.860)	28746	5.00000	4.73
$ 35	1,2-Dichloroethane-d4	65	4.474	4.474	(1.071)	26822	5.00000	4.94
* 36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	753771	50.0000	
37	Benzene	78	4.515	4.515	(0.909)	91696	5.00000	4.72
38	Trichloroethene	130	5.212	5.212	(1.050)	26143	5.00000	4.89(a)
39	Bromodichloromethane	83	5.729	5.729	(1.154)	32837	5.00000	4.78(a)
40	Methyl Methacrylate	41	5.617	5.617	(1.345)	18034	5.00000	4.77(a)
41	2-Chloroethylvinyl ether	63	6.059	6.059	(1.220)	18326	10.0000	9.87(a)
42	1,2-Dichloropropane	63	5.441	5.441	(1.096)	25417	5.00000	4.99(a)
43	2-Nitropropane	43	5.973	5.973	(1.430)	6797	5.00000	5.16(MH)
44	Dibromomethane	93	5.553	5.553	(1.119)	15838	5.00000	4.95(a)
45	4-Methyl-2-Pentanone	43	6.329	6.329	(0.825)	47063	10.0000	10.43
46	cis-1,3-Dichloropropene	75	6.160	6.160	(1.241)	41389	5.00000	4.89(a)
* 47	Chlorobenzene-d5	117	7.667	7.667	(1.000)	697950	50.0000	
$ 48	Toluene-d8	98	6.389	6.389	(0.833)	86700	5.00000	4.91(a)
49	Ethyl Methacrylate	69	6.790	6.790	(1.368)	34147	5.00000	4.95(aH)
50	Toluene	91	6.449	6.449	(0.841)	96484	5.00000	4.70(a)
51	trans-1,3-Dichloropropene	75	6.689	6.689	(1.347)	33242	5.00000	4.69(a)
52	2-Hexanone	43	7.094	7.094	(0.925)	31781	10.0000	10.55
53	1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	20225	5.00000	5.06
54	1,3-Dichloropropane	76	6.985	6.985	(0.911)	40289	5.00000	4.99(a)
55	Dibromochloromethane	129	7.176	7.176	(0.936)	26465	5.00000	4.67(a)
56	Tetrachloroethene	164	6.925	6.925	(0.903)	20894	5.00000	4.95(a)
57	1,2-Dibromoethane	107	7.263	7.263	(0.947)	25353	5.00000	4.96(a)
58	1-Chlorohexane	55	7.694	7.694	(1.550)	22997	5.00000	5.01
59	Chlorobenzene	112	7.694	7.694	(1.003)	68862	5.00000	4.91(a)
60	1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	25167	5.00000	4.81(a)
61	Ethylbenzene	106	7.799	7.799	(1.017)	34698	5.00000	4.80(a)
62	m,p-Xylenes	106	7.907	7.907	(1.031)	89258	10.0000	10.02
63	o-Xylene	106	8.241	8.241	(1.075)	43406	5.00000	4.88(a)
64	Styrene	104	8.263	8.263	(1.078)	70501	5.00000	4.81(a)
66	Bromoform	173	8.413	8.413	(1.097)	18603	5.00000	4.71(a)
67	Isopropylbenzene	105	8.560	8.560	(1.116)	105918	5.00000	4.82(a)
68	1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	34471	5.00000	5.14
$ 69	4-Bromofluorobenzene	95	8.691	8.691	(1.133)	37968	5.00000	5.09
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	381050	50.0000	
71	1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	24647	5.00000	5.12
72	trans-1,4-Dichloro-2-butene	53	8.893	8.893	(1.160)	8239	5.00000	4.84(a)
73	n-Propylbenzene	91	8.912	8.912	(0.922)	122140	5.00000	4.87(a)
74	Bromobenzene	156	8.807	8.807	(0.912)	30648	5.00000	4.93(a)
75	1,3,5-Trimethylbenzene	105	9.069	9.069	(0.939)	88359	5.00000	4.80(a)
76	2-Chlorotoluene	91	8.976	8.976	(0.929)	80274	5.00000	5.04

77	4-Chlorotoluene	91	9.073	9.073 (0.939)	88105	5.00000	4.96(a)
78	tert-Butylbenzene	119	9.336	9.336 (0.966)	74954	5.00000	4.88(a)

	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	9.381	9.381	(0.971)	89491	5.00000	4.82(a)
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	104715	5.00000	4.84(a)
82	p-Isopropyltoluene	119	9.650	9.650	(0.999)	91749	5.00000	4.84(a)
83	1,3-Dichlorobenzene	146	9.605	9.605	(0.994)	53191	5.00000	4.81(a)
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	56357	5.00000	4.76(a)
86	Benzyl Chloride	91	9.812	9.812	(1.280)	46695	5.00000	4.05(a)
87	n-Butylbenzene	91	9.999	9.999	(1.035)	79292	5.00000	4.91(a)
88	1,2-Dichlorobenzene	146	9.995	9.995	(1.035)	53221	5.00000	4.85(a)
89	1,2-Dibromo-3-Chloropropane	155	10.663	10.663	(1.104)	5689	5.00000	5.43
90	1,2,4-Trichlorobenzene	180	11.345	11.345	(1.174)	35696	5.00000	4.67(a)
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	16766	5.00000	4.89(a)
92	Naphthalene	128	11.547	11.547	(1.195)	82000	5.00000	4.77(a)
93	1,2,3-Trichlorobenzene	180	11.746	11.746	(1.216)	33399	5.00000	4.75(a)
146	Methyl acetate	43	2.243	2.243	(0.537)	13585	5.00000	4.70(a)
138	Freon TF	101	1.917	1.917	(0.459)	18080	5.00000	5.43
141	Cyclohexane	56	4.121	4.121	(0.987)	29352	5.00000	4.71(aH)
142	Tetrahydrofuran	42	3.855	3.855	(0.923)	6773	10.0000	9.52
147	Methylcyclohexane	55	5.396	5.396	(1.087)	52494	5.00000	4.98(aM)
135	1,4-Dioxane	88	5.606	5.606	(1.342)	5975	100.000	101.02
132	n-Butanol	56	5.287	5.287	(1.266)	8163	100.000	124.96(aM)
131	Methyl Acrylate	55	3.716	3.716	(0.890)	16619	5.00000	4.20(a)
133	Ethyl Acrylate	55	5.396	5.396	(1.292)	39998	5.00000	5.82(M)
136	n-Hexane	57	2.775	2.775	(0.664)	23971	5.00000	5.42
139	Diethyl ether	59	1.760	1.760	(0.421)	15277	5.00000	4.99(a)
148	Tert-butyl alcohol	59	2.434	2.434	(0.583)	50993	100.000	101.75
149	Isopropyl alcohol	45	2.101	2.101	(0.503)	26563	100.000	96.02
156	Diisopropyl ether	45	3.004	3.004	(0.719)	71238	5.00000	4.94(Ta)
160	2-Methylnaphthalene	142	12.642	12.642	(1.308)	35100	5.00000	4.66
166	1,2,3-Trimethylbenzene	105	9.733	9.733	(1.007)	90660	5.00000	5.00
167	Ethanol	45	1.711	1.711	(0.410)	5165	100.000	110.73
172	tert-Butyl formate	59	4.620	4.620	(1.106)	41840	10.0000	10.41
173	3,3-Dimethyl-1-butanol	57	7.289	7.289	(0.951)	59619	100.000	104.43
174	tert-Amyl methyl ether	73	4.669	4.669	(1.118)	78074	5.00000	4.98(a)
175	tert-Butyl ethyl ether	59	3.379	3.379	(0.809)	71669	5.00000	4.81(a)
176	tert-Amyl alcohol	59	4.620	4.620	(1.106)	41840	100.000	102.06
151	4-Methyl-2-pentanol	45	6.712	6.712	(1.352)	125924	100.000	105.05(M)
180	1-Methylnaphthalene	142	12.642	12.642	(1.308)	35100	5.00000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.280)	18461	5.00000	4.56(a)
152	Amyl alcohol	42	6.918	6.918	(0.902)	10877	100.000	83.64(M)
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	33935	5.00000	4.83
159	Propylene oxide	43	1.805	1.805	(0.432)	4141	10.0000	9.57
161	3-Methyl-1-butanol	55	6.921	6.921	(0.903)	10033	100.000	107.44
162	Butyl acrylate	55	8.260	8.260	(1.077)	48821	5.00000	5.22
163	Butyl methacrylate	41	9.174	9.174	(0.950)	33077	5.00000	5.16
164	Dicyclopentadiene	66	9.680	9.680	(1.002)	112719	5.00000	5.28
182	Epichlorohydrin	57	6.104	6.104	(1.230)	8423	20.0000	18.68
M 94	1,2-Dichloroethylene (total)	96				47383	10.0000	9.62(a)
M 95	Xylenes (total)	106				132664	15.0000	14.90(a)
130	Ethyl Acetate	43	3.668	3.668	(0.878)	25843	5.00000	5.19
134	Cyclohexanone	55	8.646	8.646	(0.895)	24566	100.000	102.53(a)
185	Isoprene	39	1.771	1.771	(0.424)	5765	5.00000	4.34(a)
188	Isopropyl acetate	43	4.684	4.684	(0.943)	68348	5.00000	5.25

187 n-Amyl acetate	43	8.462	8.462 (1.104)	46339	5.00000	4.95(a)
189 n-Butyl acetate	43	7.221	7.221 (0.942)	38984	5.00000	5.21(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
150 Allyl alcohol	57	2.775	2.775	(0.664)	23971	100.000	107.32
194 Acetaldehyde	44	1.216	1.216	(0.291)	6656	20.0000	22.91(M)
195 Methyl Amyl Ketone	43	8.387	8.387	(1.094)	52850	5.00000	5.14
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	50470	5.00000	4.87(a)
202 Isobutylene	41	1.242	1.242	(0.297)	2239	5.00000	4.79(aM)
205 2-Ethylhexyl Acrylate	55	11.551	11.551	(1.196)	25308	5.00000	4.76(aM)

QC Flag Legend

T - Target compound detected outside RT window.
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\voa6.i\X230615.b\X061507.D Page 1
Report Date: 05-Jul-2023 13:00

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061507.D
Lab Smp Id: VSTD020 Client Smp ID: VSTD020
Inj Date : 15-JUN-2023 13:21
Operator : PC Inst ID: voa6.i
Smp Info : VSTD020;VSTD020;1;6;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:21 Cal File: X061507.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.178	4.178	(1.000)	489657	50.0000	
2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	86585	20.0000	20.72
3	Chloromethane	50	1.081	1.081	(0.259)	97329	20.0000	19.44
4	Propionitrile	54	3.653	3.653	(0.874)	124537	200.000	210.30(a)
5	Vinyl Chloride	62	1.145	1.145	(0.274)	99862	20.0000	19.41
6	Bromomethane	94	1.344	1.344	(0.322)	54855	20.0000	18.58
7	Chloroethane	64	1.407	1.407	(0.337)	62269	20.0000	19.80
8	Trichlorofluoromethane	101	1.565	1.565	(0.375)	117479	20.0000	19.22
9	Acrolein	56	1.445	1.445	(0.346)	11716	40.0000	38.55
10	Acetone	43	1.977	1.977	(0.473)	54363	40.0000	42.42
11	1,1-Dichloroethene	96	1.917	1.917	(0.459)	72051	20.0000	18.79
12	Isobutyl Alcohol	43	4.676	4.676	(1.119)	270352	400.000	423.44(a)
13	Acetonitrile	39	2.202	2.202	(0.527)	94507	200.000	198.98(a)
14	Allyl Chloride	41	2.202	2.202	(0.527)	212180	20.0000	19.75(a)
15	Iodomethane	142	2.030	2.030	(0.486)	223261	40.0000	36.88
16	Acrylonitrile	53	2.539	2.539	(0.608)	63444	40.0000	40.81
17	Methylene Chloride	84	2.303	2.303	(0.551)	103912	20.0000	19.18
18	Methyl tert-butyl ether	73	2.536	2.536	(0.607)	262034	20.0000	19.58
19	Carbon Disulfide	76	2.071	2.071	(0.496)	517323	40.0000	37.89
20	trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	87737	20.0000	19.12
21	Vinyl Acetate	43	3.000	3.000	(0.718)	534964	40.0000	43.69

22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	161028	20.0000	19.48
23 Chloroprene	53	1.775	1.775 (0.425)	30284	20.0000	18.60(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
24	2-Butanone	43	3.585	3.585	(0.858)	61551	40.0000	38.19
25	Methacrylonitrile	41	3.829	3.829	(0.917)	80752	20.0000	19.98(aH)
26	2,2-Dichloropropane	77	3.510	3.510	(0.840)	134641	20.0000	20.64
27	cis-1,2-Dichloroethene	96	3.529	3.529	(0.845)	101910	20.0000	19.26
28	Chloroform	83	3.908	3.908	(0.935)	168304	20.0000	18.92
29	Bromochloromethane	128	3.795	3.795	(0.908)	53335	20.0000	18.92
$ 30	Dibromofluoromethane	113	4.099	4.099	(0.981)	90715	20.0000	20.54
31	1,1,1-Trichloroethane	97	4.084	4.084	(0.978)	137926	20.0000	19.18
32	1,1-Dichloropropene	75	4.282	4.282	(0.863)	120835	20.0000	19.11
33	1,2-Dichloroethane	62	4.556	4.556	(0.918)	124099	20.0000	19.58
34	Carbon Tetrachloride	117	4.264	4.264	(0.859)	114389	20.0000	18.81
$ 35	1,2-Dichloroethane-d4	65	4.474	4.474	(1.071)	99379	20.0000	20.55
* 36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	754600	50.0000	
37	Benzene	78	4.511	4.511	(0.909)	373170	20.0000	19.22
38	Trichloroethene	130	5.208	5.208	(1.049)	103081	20.0000	19.26
39	Bromodichloromethane	83	5.726	5.726	(1.153)	130164	20.0000	18.95
40	Methyl Methacrylate	41	5.606	5.606	(1.342)	77299	20.0000	20.39(a)
41	2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	79598	40.0000	42.84
42	1,2-Dichloropropane	63	5.433	5.433	(1.094)	100950	20.0000	19.81
43	2-Nitropropane	43	5.969	5.969	(1.429)	26346	20.0000	19.96(H)
44	Dibromomethane	93	5.550	5.550	(1.118)	63997	20.0000	20.00
45	4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	193266	40.0000	42.28
46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	164762	20.0000	19.46
* 47	Chlorobenzene-d5	117	7.667	7.667	(1.000)	707583	50.0000	
$ 48	Toluene-d8	98	6.385	6.385	(0.833)	349010	20.0000	19.50
49	Ethyl Methacrylate	69	6.787	6.787	(1.367)	132083	20.0000	19.16(aH)
50	Toluene	91	6.445	6.445	(0.841)	400928	20.0000	19.30
51	trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	140752	20.0000	19.87
52	2-Hexanone	43	7.086	7.086	(0.924)	134211	40.0000	43.95
53	1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	78488	20.0000	19.39
54	1,3-Dichloropropane	76	6.981	6.981	(0.911)	163359	20.0000	19.96
55	Dibromochloromethane	129	7.173	7.173	(0.935)	111592	20.0000	19.45
56	Tetrachloroethene	164	6.925	6.925	(0.903)	80991	20.0000	18.95
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	100177	20.0000	19.36
58	1-Chlorohexane	55	7.694	7.694	(1.550)	89942	20.0000	19.59
59	Chlorobenzene	112	7.694	7.694	(1.003)	272588	20.0000	19.17
60	1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	101037	20.0000	19.06
61	Ethylbenzene	106	7.799	7.799	(1.017)	138944	20.0000	18.97
62	m,p-Xylenes	106	7.904	7.904	(1.031)	349440	40.0000	38.69
63	o-Xylene	106	8.241	8.241	(1.075)	172627	20.0000	19.15
64	Styrene	104	8.260	8.260	(1.077)	290351	20.0000	19.56
66	Bromoform	173	8.410	8.410	(1.097)	77639	20.0000	19.41
67	Isopropylbenzene	105	8.560	8.560	(1.116)	418865	20.0000	18.80
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	134456	20.0000	19.65
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	139706	20.0000	19.90
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	389124	50.0000	
71	1,2,3-Trichloropropane	75	8.860	8.860	(0.917)	108010	20.0000	22.01
72	trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	35313	20.0000	20.50(a)
73	n-Propylbenzene	91	8.912	8.912	(0.922)	504305	20.0000	19.69
74	Bromobenzene	156	8.803	8.803	(0.911)	122207	20.0000	19.26
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	365012	20.0000	19.42
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	315569	20.0000	19.40

77	4-Chlorotoluene	91	9.069	9.069 (0.939)	357516	20.0000	19.71
78	tert-Butylbenzene	119	9.332	9.332 (0.966)	303752	20.0000	19.40

	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	9.377	9.377	(0.971)	371444	20.0000	19.59
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	419674	20.0000	19.00
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	375150	20.0000	19.40
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	218959	20.0000	19.38
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	232551	20.0000	19.23
86	Benzyl Chloride	91	9.808	9.808	(1.279)	224211	20.0000	19.18
87	n-Butylbenzene	91	9.995	9.995	(1.035)	329929	20.0000	20.04
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	219152	20.0000	19.55
89	1,2-Dibromo-3-Chloropropane	155	10.659	10.659	(1.103)	22086	20.0000	19.93
90	1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	155839	20.0000	19.99
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	63742	20.0000	18.21
92	Naphthalene	128	11.544	11.544	(1.195)	366963	20.0000	20.91
93	1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	143690	20.0000	20.03
146	Methyl acetate	43	2.236	2.236	(0.535)	60459	20.0000	20.86
138	Freon TF	101	1.917	1.917	(0.459)	69934	20.0000	20.78
141	Cyclohexane	56	4.121	4.121	(0.987)	118290	20.0000	18.95
142	Tetrahydrofuran	42	3.848	3.848	(0.921)	30075	40.0000	42.14
147	Methylcyclohexane	55	5.381	5.381	(1.084)	202443	20.0000	19.19(M)
135	1,4-Dioxane	88	5.598	5.598	(1.340)	23581	400.000	397.38
132	n-Butanol	56	5.261	5.261	(1.259)	42441	400.000	375.27(a)
131	Methyl Acrylate	55	3.694	3.694	(0.884)	81771	20.0000	20.61
133	Ethyl Acrylate	55	5.381	5.381	(1.288)	144388	20.0000	14.83(M)
136	n-Hexane	57	2.772	2.772	(0.664)	95375	20.0000	21.84
139	Diethyl ether	59	1.760	1.760	(0.421)	60650	20.0000	19.77
148	Tert-butyl alcohol	59	2.431	2.431	(0.582)	196347	400.000	390.48
149	Isopropyl alcohol	45	2.097	2.097	(0.502)	106653	400.000	384.27
156	Diisopropyl ether	45	3.000	3.000	(0.718)	281797	20.0000	19.51
160	2-Methylnaphthalene	142	12.638	12.638	(1.308)	157545	20.0000	20.51
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	360447	20.0000	19.48
167	Ethanol	45	1.707	1.707	(0.409)	18569	400.000	396.76
172	tert-Butyl formate	59	4.616	4.616	(1.105)	159552	40.0000	39.56
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	229127	400.000	395.91
174	tert-Amyl methyl ether	73	4.665	4.665	(1.117)	299445	20.0000	19.06
175	tert-Butyl ethyl ether	59	3.379	3.379	(0.809)	286959	20.0000	19.19
176	tert-Amyl alcohol	59	4.616	4.616	(1.105)	159552	400.000	387.92
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.351)	449919	400.000	374.94
180	1-Methylnaphthalene	142	12.638	12.638	(1.308)	157545	20.0000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.280)	79048	20.0000	19.48
152	Amyl alcohol	42	6.903	6.903	(0.900)	53030	400.000	402.24
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	130577	20.0000	18.55
159	Propylene oxide	43	1.805	1.805	(0.432)	16191	40.0000	37.29
161	3-Methyl-1-butanol	55	6.903	6.903	(0.900)	52635	400.000	408.16
162	Butyl acrylate	55	8.252	8.252	(1.076)	203667	20.0000	19.81
163	Butyl methacrylate	41	9.171	9.171	(0.949)	139381	20.0000	21.29
164	Dicyclopentadiene	66	9.681	9.681	(1.002)	418286	20.0000	19.21
182	Epichlorohydrin	57	6.097	6.097	(1.228)	35522	80.0000	78.69
M 94	1,2-Dichloroethylene (total)	96				189647	40.0000	38.39
M 95	Xylenes (total)	106				522067	60.0000	57.85
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	183918	20.0000	19.97
130	Ethyl Acetate	43	3.656	3.656	(0.875)	104842	20.0000	21.00
134	Cyclohexanone	55	8.642	8.642	(0.894)	91911	400.000	410.27(a)
185	Isoprene	39	1.771	1.771	(0.424)	22566	20.0000	16.93

188 Isopropyl acetate	43	4.676	4.676 (0.942)	270352	20.0000	20.74
187 n-Amyl acetate	43	8.451	8.451 (1.102)	194165	20.0000	20.49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
189 n-Butyl acetate	43	7.214	7.214	(0.941)	161428	20.0000	21.30(H)
150 Allyl alcohol	57	2.772	2.772	(0.664)	95375	400.000	436.24
194 Acetaldehyde	44	1.216	1.216	(0.291)	20285	80.0000	76.62(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	220297	20.0000	21.14
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	203599	20.0000	19.40
202 Isobutylene	41	1.242	1.242	(0.297)	8262	20.0000	17.64(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	120798	20.0000	17.62(M)

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\voa6.i\X230615.b\X061508.D Page 1
Report Date: 05-Jul-2023 13:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061508.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 15-JUN-2023 13:42
Operator : PC Inst ID: voa6.i
Smp Info : VSTD050;VSTD050;1;7;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 05-Jul-2023 13:01 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 14:45 Cal File: X061511.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7051

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	4.181	4.181	(1.000)	492816	50.0000	
2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	197396	50.0000	46.53
3 Chloromethane	50	1.081	1.081	(0.259)	241131	50.0000	46.36
4 Propionitrile	54	3.653	3.653	(0.874)	304381	500.000	510.70
5 Vinyl Chloride	62	1.145	1.145	(0.274)	240339	50.0000	46.43
6 Bromomethane	94	1.344	1.344	(0.321)	137932	50.0000	46.42
7 Chloroethane	64	1.407	1.407	(0.337)	149942	50.0000	47.39
8 Trichlorofluoromethane	101	1.565	1.565	(0.374)	272748	50.0000	44.34
9 Acrolein	56	1.449	1.449	(0.347)	27543	100.000	90.06
10 Acetone	43	1.977	1.977	(0.473)	120180	100.000	93.50
11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	175031	50.0000	45.36
12 Isobutyl Alcohol	43	4.672	4.672	(1.117)	634764	1000.00	987.83
13 Acetonitrile	39	2.202	2.202	(0.527)	239543	500.000	501.13
14 Allyl Chloride	41	2.202	2.202	(0.527)	536037	50.0000	49.59
15 Iodomethane	142	2.030	2.030	(0.485)	622671	100.000	97.37
16 Acrylonitrile	53	2.536	2.536	(0.606)	151533	100.000	96.86
17 Methylene Chloride	84	2.307	2.307	(0.552)	248535	50.0000	45.60
18 Methyl tert-butyl ether	73	2.536	2.536	(0.606)	648118	50.0000	48.12
19 Carbon Disulfide	76	2.071	2.071	(0.495)	1253720	100.000	91.25
20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	213845	50.0000	46.31

21 Vinyl Acetate	43	2.997	2.997 (0.717)	1287138	100.000	104.45
22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	390252	50.0000	46.92

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.775	1.775	(0.425)	73527	50.0000	44.88(M)
	24 2-Butanone	43	3.574	3.574	(0.855)	166054	100.000	102.38
	25 Methacrylonitrile	41	3.821	3.821	(0.914)	202059	50.0000	49.69(aH)
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	313511	50.0000	47.76
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.843)	251495	50.0000	47.23
	28 Chloroform	83	3.904	3.904	(0.934)	411769	50.0000	45.99
	29 Bromochloromethane	128	3.795	3.795	(0.908)	132725	50.0000	46.78
$	30 Dibromofluoromethane	113	4.095	4.095	(0.979)	209535	50.0000	47.59
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.977)	324614	50.0000	44.86
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	288880	50.0000	45.69
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	306752	50.0000	48.42
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	268670	50.0000	44.19
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	238148	50.0000	50.13
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	754448	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	918710	50.0000	47.34
	38 Trichloroethene	130	5.205	5.205	(1.048)	248720	50.0000	46.48
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	322289	50.0000	46.94
	40 Methyl Methacrylate	41	5.602	5.602	(1.340)	191236	50.0000	50.12
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	193001	100.000	103.89
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	247937	50.0000	48.67
	43 2-Nitropropane	43	5.966	5.966	(1.427)	65936	50.0000	49.64(H)
	44 Dibromomethane	93	5.553	5.553	(1.119)	153422	50.0000	47.97
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	451055	100.000	99.73
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	414700	50.0000	48.99
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	700134	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	793009	50.0000	44.80
	49 Ethyl Methacrylate	69	6.783	6.783	(1.366)	343257	50.0000	49.80(H)
	50 Toluene	91	6.446	6.446	(0.841)	985523	50.0000	47.94
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	351970	50.0000	49.70
	52 2-Hexanone	43	7.087	7.087	(0.924)	307641	100.000	101.83
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	191485	50.0000	47.81
	54 1,3-Dichloropropane	76	6.978	6.978	(0.910)	394668	50.0000	48.74
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	276136	50.0000	48.65
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	188588	50.0000	44.61
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	242321	50.0000	47.34
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	204135	50.0000	44.49
	59 Chlorobenzene	112	7.690	7.690	(1.003)	670262	50.0000	47.65
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	247525	50.0000	47.19
	61 Ethylbenzene	106	7.799	7.799	(1.017)	337944	50.0000	46.63
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	865023	100.000	96.80
	63 o-Xylene	106	8.237	8.237	(1.074)	421695	50.0000	47.29
	64 Styrene	104	8.256	8.256	(1.077)	726936	50.0000	49.49
	66 Bromoform	173	8.406	8.406	(1.096)	193324	50.0000	48.86
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	1020952	50.0000	46.32
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	322973	50.0000	45.91
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	332999	50.0000	48.70
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	400046	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	233477	50.0000	46.28(M)
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	85424	50.0000	50.12
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	1227225	50.0000	46.61
	74 Bromobenzene	156	8.803	8.803	(0.911)	307004	50.0000	47.08
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	897093	50.0000	46.44

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	765612	50.0000	45.79
77	4-Chlorotoluene	91	9.070	9.070 (0.939)	883550	50.0000	47.38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
78	tert-Butylbenzene	119	9.332	9.332	(0.966)	729912	50.0000	45.35	
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	919002	50.0000	47.15	
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	1013804	50.0000	44.66	
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	914630	50.0000	46.02	
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	550233	50.0000	47.39	
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	582612	50.0000	46.88	
86	Benzyl Chloride	91	9.804	9.804	(1.279)	583705	50.0000	50.47	
87	n-Butylbenzene	91	9.992	9.992	(1.034)	814070	50.0000	48.10	
88	1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	553758	50.0000	48.07	
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	57289	50.0000	49.90	
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	403454	50.0000	50.34	
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	160721	50.0000	44.68	
92	Naphthalene	128	11.540	11.540	(1.194)	921832	50.0000	51.10	
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	365678	50.0000	49.59	
146	Methyl acetate	43	2.232	2.232	(0.534)	148083	50.0000	50.76	
138	Freon TF	101	1.917	1.917	(0.459)	158688	50.0000	46.35	
141	Cyclohexane	56	4.118	4.118	(0.985)	274803	50.0000	43.74	
142	Tetrahydrofuran	42	3.844	3.844	(0.919)	72495	100.000	100.93	
147	Methylcyclohexane	55	5.377	5.377	(1.083)	533003	50.0000	50.54	
135	1,4-Dioxane	88	5.598	5.598	(1.339)	56523	1000.00	946.41	
132	n-Butanol	56	5.253	5.253	(1.256)	116028	1000.00	907.61	
131	Methyl Acrylate	55	3.690	3.690	(0.883)	211890	50.0000	53.08	
133	Ethyl Acrylate	55	5.377	5.377	(1.286)	533003	50.0000	48.09	
136	n-Hexane	57	2.776	2.776	(0.664)	208750	50.0000	46.44	
139	Diethyl ether	59	1.760	1.760	(0.421)	148690	50.0000	48.15	
148	Tert-butyl alcohol	59	2.431	2.431	(0.581)	465312	1000.00	919.46	
149	Isopropyl alcohol	45	2.093	2.093	(0.501)	254962	1000.00	912.73	
156	Diisopropyl ether	45	3.001	3.001	(0.718)	713579	50.0000	49.09	
160	2-Methylnaphthalene	142	12.635	12.635	(1.308)	394789	50.0000	50.00	
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	940766	50.0000	49.47	
167	Ethanol	45	1.704	1.704	(0.407)	42212	1000.00	896.16	
172	tert-Butyl formate	59	4.616	4.616	(1.104)	374840	100.000	92.35	
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	494306	1000.00	863.21	
174	tert-Amyl methyl ether	73	4.665	4.665	(1.116)	751714	50.0000	47.55	
175	tert-Butyl ethyl ether	59	3.375	3.375	(0.807)	719611	50.0000	47.83	
176	tert-Amyl alcohol	59	4.616	4.616	(1.104)	374840	1000.00	905.51	
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.351)	1032494	1000.00	860.61	
180	1-Methylnaphthalene	142	12.635	12.635	(1.308)	394789	50.0000		(a)
140	1,3-Butadiene	54	1.167	1.167	(0.279)	188849	50.0000	46.24	
152	Amyl alcohol	42	6.899	6.899	(0.900)	133001	1000.00	1019.57	
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	334814	50.0000	47.27	
159	Propylene oxide	43	1.805	1.805	(0.432)	36073	100.000	82.56	
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	125842	1000.00	936.08	
162	Butyl acrylate	55	8.249	8.249	(1.076)	512904	50.0000	49.57	
163	Butyl methacrylate	41	9.167	9.167	(0.949)	352536	50.0000	52.39	
164	Dicyclopentadiene	66	9.681	9.681	(1.002)	1059682	50.0000	47.36	
182	Epichlorohydrin	57	6.093	6.093	(1.227)	80467	200.000	178.30	
M 94	1,2-Dichloroethylene (total)	96				465340	100.000		(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	459940	50.0000	48.60	
130	Ethyl Acetate	43	3.657	3.657	(0.875)	241252	50.0000	48.02	
134	Cyclohexanone	55	8.638	8.638	(0.894)	225144	1000.00	995.53	
185	Isoprene	39	1.775	1.775	(0.425)	54933	50.0000	40.95	

188 Isopropyl acetate	43	4.672	4.672 (0.941)	638971	50.0000	49.04
187 n-Amyl acetate	43	8.451	8.451 (1.102)	446148	50.0000	47.58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
189 n-Butyl acetate	43	7.210	7.210	(0.940)	384979	50.0000	51.34(H)
150 Allyl alcohol	57	2.776	2.776	(0.664)	208750	1000.00	928.85
194 Acetaldehyde	44	1.216	1.216	(0.291)	50952	200.000	196.39(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	518535	50.0000	50.29
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	533595	50.0000	51.39
202 Isobutylene	41	1.242	1.242	(0.297)	22667	50.0000	48.10(M)
205 2-Ethylhexyl Acrylate	55	11.544	11.544	(1.195)	360378	50.0000	48.72(M)

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\voa6.i\X230615.b\X061509.D Page 1
Report Date: 05-Jul-2023 13:00

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061509.D
Lab Smp Id: VSTD100 Client Smp ID: VSTD100
Inj Date : 15-JUN-2023 14:03
Operator : PC Inst ID: voa6.i
Smp Info : VSTD100;VSTD100;1;8;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 14:03 Cal File: X061509.D
Als bottle: 10 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.181	4.181	(1.000)	495501	50.0000	
2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	431897	100.000	100.87
3	Chloromethane	50	1.081	1.081	(0.259)	524590	100.000	99.12
4	Propionitrile	54	3.649	3.649	(0.873)	599655	1000.00	1000.67
5	Vinyl Chloride	62	1.149	1.149	(0.275)	501013	100.000	96.27
6	Bromomethane	94	1.344	1.344	(0.321)	288326	100.000	96.52
7	Chloroethane	64	1.407	1.407	(0.337)	306060	100.000	96.21
8	Trichlorofluoromethane	101	1.561	1.561	(0.373)	598877	100.000	96.84
9	Acrolein	56	1.449	1.449	(0.347)	62591	200.000	203.57
10	Acetone	43	1.973	1.973	(0.472)	254517	200.000	197.25
11	1,1-Dichloroethene	96	1.917	1.917	(0.459)	364522	100.000	93.96
12	Isobutyl Alcohol	43	4.672	4.672	(1.117)	1268000	2000.00	1962.59
13	Acetonitrile	39	2.198	2.198	(0.526)	484091	1000.00	1007.25
14	Allyl Chloride	41	2.198	2.198	(0.526)	1079064	100.000	99.30
15	Iodomethane	142	2.030	2.030	(0.485)	1361652	200.000	206.18
16	Acrylonitrile	53	2.536	2.536	(0.606)	316304	200.000	201.10
17	Methylene Chloride	84	2.303	2.303	(0.551)	490960	100.000	89.59
18	Methyl tert-butyl ether	73	2.536	2.536	(0.606)	1281775	100.000	94.66
19	Carbon Disulfide	76	2.071	2.071	(0.495)	2629763	200.000	190.38
20	trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	439343	100.000	94.64
21	Vinyl Acetate	43	2.997	2.997	(0.717)	2457055	200.000	198.31

22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	801750	100.000	95.87
23 Chloroprene	53	1.771	1.771 (0.424)	161195	100.000	97.87(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
24	2-Butanone	43	3.574	3.574	(0.855)	351579	200.000	215.60
25	Methacrylonitrile	41	3.818	3.818	(0.913)	394582	100.000	96.51(aH)
26	2,2-Dichloropropane	77	3.507	3.507	(0.839)	661036	100.000	100.17
27	cis-1,2-Dichloroethene	96	3.525	3.525	(0.843)	508020	100.000	94.90
28	Chloroform	83	3.904	3.904	(0.934)	818333	100.000	90.92
29	Bromochloromethane	128	3.792	3.792	(0.907)	265719	100.000	93.15
$ 30	Dibromofluoromethane	113	4.095	4.095	(0.979)	449558	100.000	101.94
31	1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	691238	100.000	95.02
32	1,1-Dichloropropene	75	4.279	4.279	(0.862)	621302	100.000	97.62
33	1,2-Dichloroethane	62	4.552	4.552	(0.917)	619081	100.000	97.07
34	Carbon Tetrachloride	117	4.264	4.264	(0.859)	590757	100.000	96.51
$ 35	1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	480296	100.000	101.41
* 36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	759537	50.0000	
37	Benzene	78	4.511	4.511	(0.909)	1903903	100.000	97.44
38	Trichloroethene	130	5.205	5.205	(1.048)	527345	100.000	97.89
39	Bromodichloromethane	83	5.722	5.722	(1.153)	657597	100.000	95.15
40	Methyl Methacrylate	41	5.602	5.602	(1.340)	386280	100.000	100.70
41	2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	379788	200.000	203.08
42	1,2-Dichloropropane	63	5.433	5.433	(1.094)	505068	100.000	98.48
43	2-Nitropropane	43	5.966	5.966	(1.427)	130452	100.000	97.68(H)
44	Dibromomethane	93	5.550	5.550	(1.118)	306749	100.000	95.28
45	4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	894293	200.000	193.09
46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	851192	100.000	99.89
* 47	Chlorobenzene-d5	117	7.668	7.668	(1.000)	716953	50.0000	
$ 48	Toluene-d8	98	6.386	6.386	(0.833)	1762374	100.000	97.22
49	Ethyl Methacrylate	69	6.787	6.787	(1.367)	676176	100.000	97.44(H)
50	Toluene	91	6.446	6.446	(0.841)	2049854	100.000	97.39
51	trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	708794	100.000	99.41
52	2-Hexanone	43	7.083	7.083	(0.924)	616657	200.000	199.33
53	1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	386891	100.000	94.35
54	1,3-Dichloropropane	76	6.978	6.978	(0.910)	798132	100.000	96.26
55	Dibromochloromethane	129	7.173	7.173	(0.935)	568303	100.000	97.79
56	Tetrachloroethene	164	6.925	6.925	(0.903)	417138	100.000	96.37
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	492910	100.000	94.04
58	1-Chlorohexane	55	7.694	7.694	(1.550)	447382	100.000	96.85
59	Chlorobenzene	112	7.690	7.690	(1.003)	1379283	100.000	95.77
60	1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	518754	100.000	96.59
61	Ethylbenzene	106	7.795	7.795	(1.017)	716254	100.000	96.52
62	m,p-Xylenes	106	7.900	7.900	(1.030)	1808556	200.000	197.64
63	o-Xylene	106	8.237	8.237	(1.074)	881676	100.000	96.56
64	Styrene	104	8.256	8.256	(1.077)	1495586	100.000	99.44
66	Bromoform	173	8.406	8.406	(1.096)	398754	100.000	98.42
67	Isopropylbenzene	105	8.560	8.560	(1.116)	2193383	100.000	97.18
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	652900	100.000	89.45
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	703849	100.000	101.09
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	415088	50.0000	
71	1,2,3-Trichloropropane	75	8.860	8.860	(0.917)	479418	100.000	91.60
72	trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	178104	100.000	102.06
73	n-Propylbenzene	91	8.908	8.908	(0.922)	2636189	100.000	96.51
74	Bromobenzene	156	8.803	8.803	(0.911)	639671	100.000	94.55
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	1937766	100.000	96.68
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	1592392	100.000	91.80

77	4-Chlorotoluene	91	9.066	9.066 (0.938)	1851947	100.000	95.71
78	tert-Butylbenzene	119	9.332	9.332 (0.966)	1602812	100.000	95.98

	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	9.377	9.377	(0.971)	1952643	100.000	96.56
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	2290981	100.000	97.28
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	2068710	100.000	100.33
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	1179035	100.000	97.87
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	1231486	100.000	95.50
86	Benzyl Chloride	91	9.804	9.804	(1.279)	1261181	100.000	106.49
87	n-Butylbenzene	91	9.992	9.992	(1.034)	1840344	100.000	104.79
88	1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	1168783	100.000	97.78
89	1,2-Dibromo-3-Chloropropane	155	10.652	10.652	(1.102)	117282	100.000	98.20
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	872938	100.000	104.98
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	384079	100.000	102.91
92	Naphthalene	128	11.536	11.536	(1.194)	1926226	100.000	102.91
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	783021	100.000	102.34
146	Methyl acetate	43	2.232	2.232	(0.534)	289526	100.000	98.71
138	Freon TF	101	1.917	1.917	(0.459)	355059	100.000	100.76
141	Cyclohexane	56	4.121	4.121	(0.986)	620885	100.000	98.29
142	Tetrahydrofuran	42	3.840	3.840	(0.918)	142469	200.000	197.28
147	Methylcyclohexane	55	5.377	5.377	(1.083)	1125305	100.000	106.00(A)
135	1,4-Dioxane	88	5.598	5.598	(1.339)	120015	2000.00	1998.62
132	n-Butanol	56	5.250	5.250	(1.255)	246332	2000.00	1844.09
131	Methyl Acrylate	55	3.687	3.687	(0.882)	416983	100.000	103.90(M)
133	Ethyl Acrylate	55	5.377	5.377	(1.286)	1125305	100.000	98.39
136	n-Hexane	57	2.772	2.772	(0.663)	496122	100.000	102.05
139	Diethyl ether	59	1.760	1.760	(0.421)	299105	100.000	96.35
148	Tert-butyl alcohol	59	2.427	2.427	(0.580)	915279	2000.00	1798.80
149	Isopropyl alcohol	45	2.097	2.097	(0.502)	521733	2000.00	1857.62
156	Diisopropyl ether	45	3.001	3.001	(0.718)	1426018	100.000	97.58
160	2-Methylnaphthalene	142	12.635	12.635	(1.308)	820577	100.000	100.15
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	1981777	100.000	100.44
167	Ethanol	45	1.707	1.707	(0.408)	84145	2000.00	1776.72
172	tert-Butyl formate	59	4.616	4.616	(1.104)	756526	200.000	185.39
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	1023974	2000.00	1746.23
174	tert-Amyl methyl ether	73	4.665	4.665	(1.116)	1510011	100.000	95.00
175	tert-Butyl ethyl ether	59	3.375	3.375	(0.807)	1438799	100.000	95.12
176	tert-Amyl alcohol	59	4.616	4.616	(1.104)	756526	2000.00	1817.65
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.351)	2081892	2000.00	1723.68
180	1-Methylnaphthalene	142	12.635	12.635	(1.308)	820577	100.000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.279)	405380	100.000	98.72
152	Amyl alcohol	42	6.899	6.899	(0.900)	278205	2000.00	2082.66
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	693033	100.000	97.31
159	Propylene oxide	43	1.808	1.808	(0.433)	69625	200.000	158.49
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	266062	2000.00	1894.99
162	Butyl acrylate	55	8.249	8.249	(1.076)	1042036	100.000	97.81
163	Butyl methacrylate	41	9.167	9.167	(0.949)	680469	100.000	97.46
164	Dicyclopentadiene	66	9.681	9.681	(1.002)	2180940	100.000	93.94
182	Epichlorohydrin	57	6.093	6.093	(1.227)	164288	400.000	361.60
M 94	1,2-Dichloroethylene (total)	96				947363	200.000	189.55
M 95	Xylenes (total)	106				2690232	300.000	294.20
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	980440	100.000	99.84
130	Ethyl Acetate	43	3.653	3.653	(0.874)	454946	100.000	90.07
134	Cyclohexanone	55	8.642	8.642	(0.894)	470281	2000.00	2017.28
185	Isoprene	39	1.771	1.771	(0.424)	117560	100.000	87.18

188 Isopropyl acetate	43	4.672	4.672 (0.941)	1268530	100.000	96.70
187 n-Amyl acetate	43	8.451	8.451 (1.102)	916897	100.000	95.49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
189 n-Butyl acetate	43	7.210	7.210	(0.940)	766562	100.000	99.82(H)
150 Allyl alcohol	57	2.772	2.772	(0.663)	496122	2000.00	2041.64
194 Acetaldehyde	44	1.216	1.216	(0.291)	103450	400.000	400.10(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	1079051	100.000	102.21
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	1080422	100.000	101.61
202 Isobutylene	41	1.242	1.242	(0.297)	44663	100.000	94.27(M)
205 2-Ethylhexyl Acrylate	55	11.544	11.544	(1.195)	790630	100.000	101.60

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.
H - Operator selected an alternate compound hit.

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061510.D Page 1
Report Date: 05-Jul-2023 13:00

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061510.D
Lab Smp Id: VSTD150 Client Smp ID: VSTD150
Inj Date : 15-JUN-2023 14:24
Operator : PC Inst ID: voa6.i
Smp Info : VSTD150;VSTD150;1;9;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 14:24 Cal File: X061510.D
Als bottle: 11 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.181	4.181	(1.000)	496372	50.0000	
2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	640204	150.000	149.11
3	Chloromethane	50	1.081	1.081	(0.259)	786709	150.000	147.87
4	Propionitrile	54	3.649	3.649	(0.873)	930050	1500.00	1549.29
5	Vinyl Chloride	62	1.145	1.145	(0.274)	746276	150.000	143.15
6	Bromomethane	94	1.336	1.336	(0.320)	433384	150.000	144.83
7	Chloroethane	64	1.404	1.404	(0.336)	453938	150.000	142.45
8	Trichlorofluoromethane	101	1.561	1.561	(0.373)	900602	150.000	145.38
9	Acrolein	56	1.445	1.445	(0.346)	97655	300.000	317.05
10	Acetone	43	1.973	1.973	(0.472)	376478	300.000	291.39
11	1,1-Dichloroethene	96	1.913	1.913	(0.458)	543055	150.000	139.74
12	Isobutyl Alcohol	43	4.672	4.672	(1.117)	1920074	3000.00	2966.65
13	Acetonitrile	39	2.198	2.198	(0.526)	746339	1500.00	1550.19
14	Allyl Chloride	41	2.198	2.198	(0.526)	1653414	150.000	151.89
15	Iodomethane	142	2.030	2.030	(0.485)	1987305	300.000	295.77
16	Acrylonitrile	53	2.532	2.532	(0.606)	489629	300.000	310.76
17	Methylene Chloride	84	2.303	2.303	(0.551)	728727	150.000	132.75
18	Methyl tert-butyl ether	73	2.536	2.536	(0.606)	1979321	150.000	145.93
19	Carbon Disulfide	76	2.071	2.071	(0.495)	4109640	300.000	296.99
20	trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	664057	150.000	142.80
21	Vinyl Acetate	43	2.997	2.997	(0.717)	3702324	300.000	298.30

22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	1188336	150.000	141.85
23 Chloroprene	53	1.771	1.771 (0.424)	235576	150.000	142.78

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
24	2-Butanone	43	3.574	3.574	(0.855)	535272	300.000	327.67
25	Methacrylonitrile	41	3.818	3.818	(0.913)	606858	150.000	148.17(aH)
26	2,2-Dichloropropane	77	3.507	3.507	(0.839)	998442	150.000	151.04
27	cis-1,2-Dichloroethene	96	3.522	3.522	(0.842)	764228	150.000	142.51
28	Chloroform	83	3.904	3.904	(0.934)	1226489	150.000	136.03
29	Bromochloromethane	128	3.791	3.791	(0.907)	402633	150.000	140.90
$ 30	Dibromofluoromethane	113	4.095	4.095	(0.979)	670515	150.000	151.95
31	1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	1052921	150.000	144.48
32	1,1-Dichloropropene	75	4.279	4.279	(0.862)	948327	150.000	149.27
33	1,2-Dichloroethane	62	4.552	4.552	(0.917)	933139	150.000	146.58
34	Carbon Tetrachloride	117	4.264	4.264	(0.859)	907027	150.000	148.45
$ 35	1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	717187	150.000	151.59
* 36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	758148	50.0000	
37	Benzene	78	4.511	4.511	(0.909)	2855100	150.000	146.40
38	Trichloroethene	130	5.205	5.205	(1.048)	801968	150.000	149.14
39	Bromodichloromethane	83	5.722	5.722	(1.153)	985431	150.000	142.84
40	Methyl Methacrylate	41	5.602	5.602	(1.340)	588875	150.000	153.24
41	2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	573937	300.000	307.45
42	1,2-Dichloropropane	63	5.433	5.433	(1.094)	749457	150.000	146.41
43	2-Nitropropane	43	5.966	5.966	(1.427)	204861	150.000	153.12(H)
44	Dibromomethane	93	5.550	5.550	(1.118)	460730	150.000	143.38
45	4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	1336051	300.000	286.37
46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	1279171	150.000	150.39
* 47	Chlorobenzene-d5	117	7.668	7.668	(1.000)	722233	50.0000	
$ 48	Toluene-d8	98	6.386	6.386	(0.833)	2595498	150.000	142.14
49	Ethyl Methacrylate	69	6.787	6.787	(1.367)	1055761	150.000	152.43(H)
50	Toluene	91	6.446	6.446	(0.841)	3078749	150.000	145.20
51	trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	1082340	150.000	152.08
52	2-Hexanone	43	7.083	7.083	(0.924)	932009	300.000	299.06
53	1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	582084	150.000	140.91
54	1,3-Dichloropropane	76	6.978	6.978	(0.910)	1189873	150.000	142.46
55	Dibromochloromethane	129	7.173	7.173	(0.935)	863836	150.000	147.55
56	Tetrachloroethene	164	6.925	6.925	(0.903)	652660	150.000	149.68
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	750201	150.000	142.08
58	1-Chlorohexane	55	7.694	7.694	(1.550)	693641	150.000	150.44
59	Chlorobenzene	112	7.690	7.690	(1.003)	2097306	150.000	144.56
60	1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	788685	150.000	145.78
61	Ethylbenzene	106	7.799	7.799	(1.017)	1108469	150.000	148.29
62	m,p-Xylenes	106	7.904	7.904	(1.031)	2779898	300.000	301.57
63	o-Xylene	106	8.237	8.237	(1.074)	1341283	150.000	145.82
64	Styrene	104	8.256	8.256	(1.077)	2293595	150.000	151.38
66	Bromoform	173	8.406	8.406	(1.096)	616100	150.000	150.96
67	Isopropylbenzene	105	8.560	8.560	(1.116)	3423955	150.000	150.60
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	999723	150.000	133.32
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	1057321	150.000	151.02
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	426427	50.0000	
71	1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	728412	150.000	135.47(M)
72	trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	276176	150.000	157.10
73	n-Propylbenzene	91	8.912	8.912	(0.922)	4145728	150.000	147.73
74	Bromobenzene	156	8.803	8.803	(0.911)	998637	150.000	143.68
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	3021206	150.000	146.72
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	2465333	150.000	138.34

77	4-Chlorotoluene	91	9.066	9.066 (0.938)	2873857	150.000	144.58
78	tert-Butylbenzene	119	9.336	9.336 (0.966)	2516939	150.000	146.72

	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	9.377	9.377	(0.971)	3046806	150.000	146.66
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	3637698	150.000	150.35
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	3234520	150.000	152.70
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	1838273	150.000	148.54
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	1883662	150.000	142.20
86	Benzyl Chloride	91	9.804	9.804	(1.279)	1986937	150.000	166.55
87	n-Butylbenzene	91	9.992	9.992	(1.034)	2886932	150.000	160.02
88	1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	1800734	150.000	146.65
89	1,2-Dibromo-3-Chloropropane	155	10.651	10.651	(1.102)	182534	150.000	148.64
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	1349005	150.000	157.93
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	614842	150.000	160.36
92	Naphthalene	128	11.536	11.536	(1.194)	2944619	150.000	153.13
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	1213404	150.000	154.38
146	Methyl acetate	43	2.232	2.232	(0.534)	443517	150.000	150.95
138	Freon TF	101	1.917	1.917	(0.459)	548562	150.000	151.80
141	Cyclohexane	56	4.121	4.121	(0.986)	967778	150.000	152.95
142	Tetrahydrofuran	42	3.840	3.840	(0.918)	215293	300.000	297.61
147	Methylcyclohexane	55	5.377	5.377	(1.083)	1751972	150.000	165.34(A)
135	1,4-Dioxane	88	5.598	5.598	(1.339)	184006	3000.00	3058.89
132	n-Butanol	56	5.253	5.253	(1.256)	401679	3000.00	2960.90
131	Methyl Acrylate	55	3.683	3.683	(0.881)	649317	150.000	161.51(M)
133	Ethyl Acrylate	55	5.377	5.377	(1.286)	1751972	150.000	151.60
136	n-Hexane	57	2.772	2.772	(0.663)	791040	150.000	149.41
139	Diethyl ether	59	1.760	1.760	(0.421)	458570	150.000	147.46
148	Tert-butyl alcohol	59	2.431	2.431	(0.581)	1427844	3000.00	2801.23
149	Isopropyl alcohol	45	2.097	2.097	(0.502)	816586	3000.00	2902.35
156	Diisopropyl ether	45	3.001	3.001	(0.718)	2160748	150.000	147.59
160	2-Methylnaphthalene	142	12.631	12.631	(1.307)	1352043	150.000	160.64
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	3057315	150.000	150.83
167	Ethanol	45	1.707	1.707	(0.408)	127474	3000.00	2686.89
172	tert-Butyl formate	59	4.620	4.620	(1.105)	1196724	300.000	292.75(A)
173	3,3-Dimethyl-1-butanol	57	7.289	7.289	(0.951)	1664675	3000.00	2818.10
174	tert-Amyl methyl ether	73	4.665	4.665	(1.116)	2367965	150.000	148.72
175	tert-Butyl ethyl ether	59	3.375	3.375	(0.807)	2214645	150.000	146.16
176	tert-Amyl alcohol	59	4.620	4.620	(1.105)	1196724	3000.00	2870.24
151	4-Methyl-2-pentanol	45	6.712	6.712	(1.352)	3406170	3000.00	2825.27
180	1-Methylnaphthalene	142	12.631	12.631	(1.307)	1352043	150.000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.279)	610268	150.000	148.35
152	Amyl alcohol	42	6.899	6.899	(0.900)	451743	3000.00	3357.05
158	Dichlorofluoromethane	67	1.531	1.531	(0.366)	1052332	150.000	147.51
159	Propylene oxide	43	1.805	1.805	(0.432)	101677	300.000	231.04
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	427718	3000.00	3002.99
162	Butyl acrylate	55	8.249	8.249	(1.076)	1639896	150.000	152.49
163	Butyl methacrylate	41	9.171	9.171	(0.949)	1058796	150.000	147.62
164	Dicyclopentadiene	66	9.684	9.684	(1.002)	3392615	150.000	142.24
182	Epichlorohydrin	57	6.093	6.093	(1.227)	252651	600.000	557.11
M 94	1,2-Dichloroethylene (total)	96				1428285	300.000	285.32
M 95	Xylenes (total)	106				4121181	450.000	447.40
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	1536179	150.000	152.28
130	Ethyl Acetate	43	3.653	3.653	(0.874)	677648	150.000	133.92
134	Cyclohexanone	55	8.642	8.642	(0.894)	717000	3000.00	3000.09
185	Isoprene	39	1.771	1.771	(0.424)	170486	150.000	126.20

188 Isopropyl acetate	43	4.672	4.672 (0.941)	1922342	150.000	146.82
187 n-Amyl acetate	43	8.451	8.451 (1.102)	1418221	150.000	146.63

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
189 n-Butyl acetate	43	7.210	7.210	(0.940)	1191202	150.000	153.99(H)
150 Allyl alcohol	57	2.772	2.772	(0.663)	791040	3000.00	2988.03
194 Acetaldehyde	44	1.212	1.212	(0.290)	152553	600.000	590.61(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	1678861	150.000	157.86
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	1681271	150.000	156.96
202 Isobutylene	41	1.242	1.242	(0.297)	75658	150.000	159.41(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	1215186	150.000	151.37

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.
H - Operator selected an alternate compound hit.

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061511.D Page 1
Report Date: 05-Jul-2023 12:59

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Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061511.D
Lab Smp Id: VSTD200 Client Smp ID: VSTD200
Inj Date : 15-JUN-2023 14:45
Operator : PC Inst ID: voa6.i
Smp Info : VSTD200;VSTD200;1;10;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 14:45 Cal File: X061511.D
Als bottle: 12 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.181	4.181	(1.000)	500734	50.0000	
2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	870731	200.000	200.92(A)
3	Chloromethane	50	1.081	1.081	(0.259)	1090387	200.000	202.79(A)
4	Propionitrile	54	3.653	3.653	(0.874)	1249104	2000.00	2062.65(A)
5	Vinyl Chloride	62	1.145	1.145	(0.274)	1008184	200.000	191.71
6	Bromomethane	94	1.336	1.336	(0.320)	562025	200.000	186.18
7	Chloroethane	64	1.404	1.404	(0.336)	596342	200.000	185.51
8	Trichlorofluoromethane	101	1.561	1.561	(0.373)	1219530	200.000	195.14
9	Acrolein	56	1.445	1.445	(0.346)	130253	400.000	419.20(A)
10	Acetone	43	1.973	1.973	(0.472)	532376	400.000	408.57(A)
11	1,1-Dichloroethene	96	1.913	1.913	(0.458)	735339	200.000	187.57
12	Isobutyl Alcohol	43	4.676	4.676	(1.118)	2609313	4000.00	3996.46
13	Acetonitrile	39	2.198	2.198	(0.526)	973976	2000.00	2005.38(A)
14	Allyl Chloride	41	2.198	2.198	(0.526)	2178817	200.000	198.41
15	Iodomethane	142	2.030	2.030	(0.485)	2762966	400.000	400.85(A)
16	Acrylonitrile	53	2.532	2.532	(0.606)	656730	400.000	413.18(A)
17	Methylene Chloride	84	2.303	2.303	(0.551)	965975	200.000	174.44
18	Methyl tert-butyl ether	73	2.536	2.536	(0.606)	2607425	200.000	190.56
19	Carbon Disulfide	76	2.071	2.071	(0.495)	5590697	400.000	400.51(A)
20	trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	884359	200.000	188.52
21	Vinyl Acetate	43	2.997	2.997	(0.717)	4777086	400.000	381.54

22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	1592034	200.000	188.39
23 Chloroprene	53	1.771	1.771 (0.424)	322483	200.000	193.76

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	3.574	3.574	(0.855)	739267	400.000	448.61(A)
	25	Methacrylonitrile	41	3.818	3.818	(0.913)	813003	200.000	196.77(aH)
	26	2,2-Dichloropropane	77	3.510	3.510	(0.840)	1330788	200.000	199.57
	27	cis-1,2-Dichloroethene	96	3.525	3.525	(0.843)	1026334	200.000	189.72
	28	Chloroform	83	3.904	3.904	(0.934)	1629503	200.000	179.15
	29	Bromochloromethane	128	3.791	3.791	(0.907)	536706	200.000	186.18
$	30	Dibromofluoromethane	113	4.095	4.095	(0.979)	880893	200.000	198.00
	31	1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	1429867	200.000	194.50
	32	1,1-Dichloropropene	75	4.279	4.279	(0.862)	1285848	200.000	197.36
	33	1,2-Dichloroethane	62	4.552	4.552	(0.917)	1210936	200.000	185.49
	34	Carbon Tetrachloride	117	4.264	4.264	(0.859)	1238094	200.000	197.60
$	35	1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	943547	200.000	197.96
*	36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	777502	50.0000	
	37	Benzene	78	4.511	4.511	(0.909)	3860956	200.000	193.05
	38	Trichloroethene	130	5.205	5.205	(1.048)	1100510	200.000	199.57
	39	Bromodichloromethane	83	5.722	5.722	(1.153)	1329286	200.000	187.89
	40	Methyl Methacrylate	41	5.602	5.602	(1.340)	793003	200.000	204.57(A)
	41	2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	772540	400.000	403.55(A)
	42	1,2-Dichloropropane	63	5.433	5.433	(1.094)	1005868	200.000	191.61
	43	2-Nitropropane	43	5.966	5.966	(1.427)	275555	200.000	204.17(AH)
	44	Dibromomethane	93	5.550	5.550	(1.118)	616840	200.000	187.18
	45	4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	1860837	400.000	388.95
	46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	1727929	200.000	198.09
*	47	Chlorobenzene-d5	117	7.668	7.668	(1.000)	740608	50.0000	
$	48	Toluene-d8	98	6.386	6.386	(0.833)	3423635	200.000	182.84
	49	Ethyl Methacrylate	69	6.787	6.787	(1.367)	1418759	200.000	205.69(H)
	50	Toluene	91	6.446	6.446	(0.841)	4158414	200.000	191.25
	51	trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	1476151	200.000	202.26(A)
	52	2-Hexanone	43	7.087	7.087	(0.924)	1310331	400.000	410.03(A)
	53	1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	783101	200.000	184.87
	54	1,3-Dichloropropane	76	6.982	6.982	(0.911)	1618260	200.000	188.94
	55	Dibromochloromethane	129	7.173	7.173	(0.935)	1177842	200.000	196.20
	56	Tetrachloroethene	164	6.925	6.925	(0.903)	893575	200.000	199.85
	57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	1022111	200.000	188.78
	58	1-Chlorohexane	55	7.694	7.694	(1.550)	936346	200.000	198.03
	59	Chlorobenzene	112	7.694	7.694	(1.003)	2846238	200.000	191.31
	60	1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	1086600	200.000	195.87
	61	Ethylbenzene	106	7.799	7.799	(1.017)	1500758	200.000	195.79
	62	m,p-Xylenes	106	7.904	7.904	(1.031)	3779135	400.000	399.80
	63	o-Xylene	106	8.241	8.241	(1.075)	1840180	200.000	195.10
	64	Styrene	104	8.256	8.256	(1.077)	3122657	200.000	200.99(A)
	66	Bromoform	173	8.406	8.406	(1.096)	854791	200.000	204.24(A)
	67	Isopropylbenzene	105	8.560	8.560	(1.116)	4678011	200.000	200.65(A)
	68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	1363444	200.000	178.47
$	69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	1427380	200.000	198.99
*	70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	434451	50.0000	
	71	1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	991732	200.000	181.04
	72	trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	376547	200.000	208.89(A)
	73	n-Propylbenzene	91	8.912	8.912	(0.922)	5621706	200.000	196.63
	74	Bromobenzene	156	8.803	8.803	(0.911)	1365635	200.000	192.85
	75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	4092223	200.000	195.07
	76	2-Chlorotoluene	91	8.972	8.972	(0.929)	3338118	200.000	183.86

77	4-Chlorotoluene	91	9.070	9.070 (0.939)	3900026	200.000	192.58
78	tert-Butylbenzene	119	9.336	9.336 (0.966)	3451610	200.000	197.49

	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	9.377	9.377	(0.971)	4101830	200.000	193.80
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	4934096	200.000	200.17(A)
82	p-Isopropyltoluene	119	9.651	9.651	(0.999)	4354959	200.000	201.80(A)
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	2489876	200.000	197.48
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	2548117	200.000	188.81
86	Benzyl Chloride	91	9.804	9.804	(1.279)	2673170	200.000	218.52(A)
87	n-Butylbenzene	91	9.992	9.992	(1.034)	3887765	200.000	211.52(A)
88	1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	2411595	200.000	192.77
89	1,2-Dibromo-3-Chloropropane	155	10.651	10.651	(1.102)	252682	200.000	201.87(A)
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	1825345	200.000	209.75(A)
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	844451	200.000	216.17(A)
92	Naphthalene	128	11.540	11.540	(1.194)	3981585	200.000	203.23(A)
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	1629136	200.000	203.44(A)
146	Methyl acetate	43	2.228	2.228	(0.533)	591833	200.000	199.68
138	Freon TF	101	1.917	1.917	(0.459)	742502	200.000	198.98
141	Cyclohexane	56	4.121	4.121	(0.986)	1339211	200.000	209.80(A)
142	Tetrahydrofuran	42	3.840	3.840	(0.918)	288575	400.000	395.43
147	Methylcyclohexane	55	5.377	5.377	(1.083)	2344010	200.000	215.71(A)
135	1,4-Dioxane	88	5.598	5.598	(1.339)	251392	4000.00	4142.70(A)
132	n-Butanol	56	5.253	5.253	(1.256)	566916	4000.00	4116.53(A)
131	Methyl Acrylate	55	3.683	3.683	(0.881)	844222	200.000	208.16(AM)
133	Ethyl Acrylate	55	5.377	5.377	(1.286)	2344010	200.000	200.29(A)
136	n-Hexane	57	2.772	2.772	(0.663)	1078975	200.000	185.23
139	Diethyl ether	59	1.760	1.760	(0.421)	599110	200.000	190.97
148	Tert-butyl alcohol	59	2.434	2.434	(0.582)	1985652	4000.00	3861.64
149	Isopropyl alcohol	45	2.101	2.101	(0.502)	1121361	4000.00	3950.87
156	Diisopropyl ether	45	3.001	3.001	(0.718)	2810226	200.000	190.29
160	2-Methylnaphthalene	142	12.635	12.635	(1.308)	1856948	200.000	216.55(A)
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	4027136	200.000	195.00
167	Ethanol	45	1.711	1.711	(0.409)	164628	4000.00	3439.79
172	tert-Butyl formate	59	4.620	4.620	(1.105)	1716317	400.000	416.20(A)
173	3,3-Dimethyl-1-butanol	57	7.289	7.289	(0.951)	2284760	4000.00	3771.87
174	tert-Amyl methyl ether	73	4.665	4.665	(1.116)	3031355	200.000	188.73
175	tert-Butyl ethyl ether	59	3.375	3.375	(0.807)	2921006	200.000	191.10
176	tert-Amyl alcohol	59	4.620	4.620	(1.105)	1716317	4000.00	4080.59(A)
151	4-Methyl-2-pentanol	45	6.715	6.715	(1.353)	4769923	4000.00	3857.96
180	1-Methylnaphthalene	142	12.635	12.635	(1.308)	1856948	200.000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.279)	817942	200.000	197.11
152	Amyl alcohol	42	6.899	6.899	(0.900)	628432	4000.00	4554.22(A)
158	Dichlorofluoromethane	67	1.531	1.531	(0.366)	1380643	200.000	191.85
159	Propylene oxide	43	1.805	1.805	(0.432)	129706	400.000	292.17
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	594725	4000.00	4059.34(A)
162	Butyl acrylate	55	8.249	8.249	(1.076)	2199388	200.000	199.27
163	Butyl methacrylate	41	9.171	9.171	(0.949)	1360235	200.000	186.15
164	Dicyclopentadiene	66	9.684	9.684	(1.002)	4448649	200.000	183.07
182	Epichlorohydrin	57	6.093	6.093	(1.227)	344824	800.000	741.43
M 94	1,2-Dichloroethylene (total)	96				1910693	400.000	378.25
M 95	Xylenes (total)	106				5619315	600.000	594.91
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	2087733	200.000	203.13(A)
130	Ethyl Acetate	43	3.653	3.653	(0.874)	911790	200.000	178.63
134	Cyclohexanone	55	8.642	8.642	(0.894)	970775	4000.00	3991.19
185	Isoprene	39	1.771	1.771	(0.424)	228794	200.000	167.89

188 Isopropyl acetate	43	4.676	4.676 (0.942)	2610700	200.000	194.43
187 n-Amyl acetate	43	8.451	8.451 (1.102)	1947829	200.000	196.39

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
189 n-Butyl acetate	43	7.210	7.210	(0.940)	1653381	200.000	208.44(AH)
150 Allyl alcohol	57	2.772	2.772	(0.663)	1078975	4000.00	3702.64
194 Acetaldehyde	44	1.212	1.212	(0.290)	210164	800.000	807.82(AM)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	2319422	200.000	212.69
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	2229099	200.000	202.95(A)
202 Isobutylene	41	1.242	1.242	(0.297)	87901	200.000	183.59(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	1627894	200.000	198.64

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.
H - Operator selected an alternate compound hit.

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061514.D Page 1
Report Date: 05-Jul-2023 13:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061514.D
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 15-JUN-2023 15:47
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;ICV
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 05-Jul-2023 13:01 pcabasca Quant Type: ISTD
Cal Date : 15-JUN-2023 14:45 Cal File: X061511.D
Als bottle: 15 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.181	4.182	(1.000)	509722	50.0000	
2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	214534	48.8826	48.88
3 Chloromethane	50	1.081	1.081	(0.259)	258398	47.9982	47.99
4 Propionitrile	54	3.649	3.653	(0.873)	307140	498.240	498.23
5 Vinyl Chloride	62	1.149	1.145	(0.275)	245673	45.8930	45.89
6 Bromomethane	94	1.344	1.336	(0.321)	144213	46.9322	46.93
7 Chloroethane	64	1.407	1.404	(0.337)	150976	46.1389	46.13
8 Trichlorofluoromethane	101	1.565	1.561	(0.374)	294811	46.3438	46.34
9 Acrolein	56	1.449	1.445	(0.347)	32873	103.933	103.93
10 Acetone	43	1.973	1.973	(0.472)	116365	87.5170	87.51
11 1,1-Dichloroethene	96	1.917	1.913	(0.459)	176439	44.2134	44.21
12 Isobutyl Alcohol	43	4.676	4.676	(1.118)	651365	980.049	980.04
13 Acetonitrile	39	2.202	2.198	(0.527)	244238	494.012	494.01
14 Allyl Chloride	41	2.202	2.198	(0.527)	549138	49.1255	49.12
15 Iodomethane	142	2.030	2.030	(0.485)	608491	92.1912	92.19
16 Acrylonitrile	53	2.536	2.532	(0.606)	152210	94.0753	94.07
17 Methylene Chloride	84	2.307	2.303	(0.552)	246468	43.7245	43.72
18 Methyl tert-butyl ether	73	2.536	2.536	(0.606)	659861	47.3759	47.37
19 Carbon Disulfide	76	2.071	2.071	(0.495)	1287120	90.5820	90.58
20 trans-1,2-Dichloroethene	96	2.532	2.528	(0.606)	215985	45.2311	45.23
21 Vinyl Acetate	43	2.997	2.997	(0.717)	1325257	103.982	103.98

22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	397167	46.1701	46.17
23 Chloroprene	53	1.775	1.771 (0.424)	75864	44.7792	44.77(M)

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
	24	2-Butanone	43	3.578	3.574	(0.856)	171772	102.399	102.39
	25	Methacrylonitrile	41	3.821	3.818	(0.914)	205167	48.7822	48.78(a)
	26	2,2-Dichloropropane	77	3.507	3.510	(0.839)	334289	49.2448	49.24
	27	cis-1,2-Dichloroethene	96	3.525	3.525	(0.843)	255198	46.3440	46.34
	28	Chloroform	83	3.904	3.904	(0.934)	410273	44.3120	44.31
	29	Bromochloromethane	128	3.791	3.791	(0.907)	131825	44.9251	44.92
$	30	Dibromofluoromethane	113	4.095	4.095	(0.979)	231563	50.8743	50.87
	31	1,1,1-Trichloroethane	97	4.084	4.080	(0.977)	336318	44.9425	44.94
	32	1,1-Dichloropropene	75	4.279	4.279	(0.862)	300244	46.8218	46.82
	33	1,2-Dichloroethane	62	4.556	4.552	(0.918)	315493	49.1002	49.10
	34	Carbon Tetrachloride	117	4.264	4.264	(0.859)	284726	46.1687	46.16
$	35	1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	245968	50.0578	50.05
*	36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	765274	50.0000	
	37	Benzene	78	4.511	4.511	(0.909)	926258	47.0543	47.05
	38	Trichloroethene	130	5.205	5.205	(1.048)	253674	46.7386	46.73
	39	Bromodichloromethane	83	5.726	5.722	(1.153)	323221	46.4181	46.41
	40	Methyl Methacrylate	41	5.606	5.602	(1.341)	195129	49.4504	49.45
	41	2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	193194	102.531	102.53
	42	1,2-Dichloropropane	63	5.433	5.433	(1.094)	250346	48.4517	48.45
	43	2-Nitropropane	43	5.966	5.966	(1.427)	66738	48.5782	48.57
	44	Dibromomethane	93	5.550	5.550	(1.118)	156421	48.2255	48.22
	45	4-Methyl-2-Pentanone	43	6.322	6.326	(0.824)	454515	97.9815	97.98
	46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	423471	49.3235	49.32
*	47	Chlorobenzene-d5	117	7.668	7.668	(1.000)	718105	50.0000	
$	48	Toluene-d8	98	6.385	6.386	(0.833)	882596	48.6137	48.61
	49	Ethyl Methacrylate	69	6.787	6.787	(1.367)	346158	49.5136	49.51(H)
	50	Toluene	91	6.445	6.446	(0.841)	998880	47.3815	47.38
	51	trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	356578	49.6394	49.63
	52	2-Hexanone	43	7.083	7.087	(0.924)	305522	98.6011	98.60
	53	1,1,2-Trichloroethane	83	6.835	6.839	(0.891)	193376	47.0835	47.08
	54	1,3-Dichloropropane	76	6.978	6.982	(0.910)	402435	48.4613	48.46
	55	Dibromochloromethane	129	7.173	7.173	(0.935)	279460	48.0113	48.01
	56	Tetrachloroethene	164	6.925	6.925	(0.903)	197937	45.6581	45.65
	57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	249128	47.4564	47.45
	58	1-Chlorohexane	55	7.694	7.694	(1.550)	211982	45.5501	45.55
	59	Chlorobenzene	112	7.690	7.694	(1.003)	674130	46.7334	46.73
	60	1,1,1,2-Tetrachloroethane	131	7.772	7.773	(1.014)	252112	46.8710	46.87
	61	Ethylbenzene	106	7.799	7.799	(1.017)	340331	45.7927	45.79
	62	m,p-Xylenes	106	7.900	7.904	(1.030)	872232	95.1686	95.16
	63	o-Xylene	106	8.241	8.241	(1.075)	422526	46.2011	46.20
	64	Styrene	104	8.256	8.256	(1.077)	731241	48.5426	48.54
	66	Bromoform	173	8.406	8.406	(1.096)	195942	48.2868	48.28
	67	Isopropylbenzene	105	8.560	8.560	(1.116)	1032573	45.6790	45.67
	68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	329570	46.2456	46.24
$	69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	354160	50.5205	50.52
*	70	1,4-Dichlorobenzene-d4	152	9.658	9.662	(1.000)	405289	50.0000	
	71	1,2,3-Trichloropropane	75	8.863	8.863	(0.918)	240888	47.1386	47.13
	72	trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	89627	51.2789	51.27
	73	n-Propylbenzene	91	8.908	8.912	(0.922)	1239999	46.4940	46.49
	74	Bromobenzene	156	8.803	8.803	(0.912)	315772	47.8031	47.80
	75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.939)	902621	46.1233	46.12
	76	2-Chlorotoluene	91	8.972	8.972	(0.929)	765561	45.2024	45.20

77	4-Chlorotoluene	91	9.070	9.070 (0.939)	883443	46.7644	46.76
78	tert-Butylbenzene	119	9.332	9.336 (0.966)	736998	45.2039	45.20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	912898	46.2361	46.23	
81	sec-Butylbenzene	105	9.519	9.519	(0.986)	1040841	45.2652	45.26	
82	p-Isopropyltoluene	119	9.647	9.651	(0.999)	938869	46.6363	46.63	
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	556559	47.3190	47.31	
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	583574	46.3543	46.35	
86	Benzyl Chloride	91	9.804	9.804	(1.279)	626201	52.7942	52.79	
87	n-Butylbenzene	91	9.992	9.992	(1.035)	835815	48.7460	48.74	
88	1,2-Dichlorobenzene	146	9.992	9.988	(1.035)	552785	47.3667	47.36	
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.651	(1.103)	58604	50.3869	50.38	
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	410761	50.5971	50.59	
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	181092	49.6950	49.69	
92	Naphthalene	128	11.540	11.540	(1.195)	958210	52.4312	52.43	
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	379747	50.8353	50.83	
146	Methyl acetate	43	2.232	2.228	(0.534)	146905	48.6925	48.69	
138	Freon TF	101	1.917	1.917	(0.459)	176578	49.7965	49.79	
141	Cyclohexane	56	4.121	4.121	(0.986)	304147	46.8095	46.80	
142	Tetrahydrofuran	42	3.844	3.840	(0.919)	72193	97.1828	97.18	
147	Methylcyclohexane	55	5.381	5.377	(1.084)	572402	53.5176	53.51	
135	1,4-Dioxane	88	5.598	5.598	(1.339)	60399	977.769	977.76	
132	n-Butanol	56	5.253	5.253	(1.256)	115761	877.798	877.79	
131	Methyl Acrylate	55	3.690	3.683	(0.883)	218984	53.0445	53.04	
133	Ethyl Acrylate	55	5.381	5.377	(1.287)	572402	49.8469	49.84	
136	n-Hexane	57	2.772	2.772	(0.663)	235619	50.4611	50.46	
139	Diethyl ether	59	1.760	1.760	(0.421)	149426	46.7925	46.79	
148	Tert-butyl alcohol	59	2.427	2.434	(0.580)	475653	908.726	908.72	
149	Isopropyl alcohol	45	2.093	2.101	(0.501)	262728	909.344	909.34	
156	Diisopropyl ether	45	3.000	3.001	(0.718)	720807	47.9480	47.94	
160	2-Methylnaphthalene	142	12.634	12.635	(1.308)	412966	51.6255	51.62	
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	962880	49.9814	49.98	
167	Ethanol	45	1.707	1.711	(0.408)	42882	880.193	880.19	
172	tert-Butyl formate	59	4.612	4.620	(1.103)	377999	90.0470	90.04	
173	3,3-Dimethyl-1-butanol	57	7.285	7.289	(0.950)	491431	836.719	836.71	
174	tert-Amyl methyl ether	73	4.665	4.665	(1.116)	767180	46.9237	46.92	
175	tert-Butyl ethyl ether	59	3.379	3.375	(0.808)	732420	47.0732	47.07	
176	tert-Amyl alcohol	59	4.612	4.620	(1.103)	377999	882.856	882.85	
151	4-Methyl-2-pentanol	45	6.708	6.715	(1.351)	1019666	837.894	837.89	
180	1-Methylnaphthalene	142	12.634	12.635	(1.308)	412966			(a)
140	1,3-Butadiene	54	1.167	1.167	(0.279)	197461	46.7466	46.74	
152	Amyl alcohol	42	6.899	6.899	(0.900)	134777	1007.33	1007.33	
158	Dichlorofluoromethane	67	1.535	1.531	(0.367)	346552	47.3072	47.30	
159	Propylene oxide	43	1.805	1.805	(0.432)	34962	77.3664	77.36	
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	128525	932.271	932.27	
162	Butyl acrylate	55	8.249	8.249	(1.076)	517977	48.8182	48.81	
163	Butyl methacrylate	41	9.167	9.171	(0.949)	356803	52.3425	52.34	
164	Dicyclopentadiene	66	9.681	9.684	(1.002)	1084753	47.8537	47.85	
182	Epichlorohydrin	57	6.093	6.093	(1.227)	86073	188.030	188.03	
M 94	1,2-Dichloroethylene (total)	96				471183	91.5752	91.57	
M 95	Xylenes (total)	106				1294758	141.370	141.36	
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	464373	48.4344	48.43	
130	Ethyl Acetate	43	3.653	3.653	(0.874)	232567	44.7604	44.76	
134	Cyclohexanone	55	8.642	8.642	(0.895)	220343	961.261	961.26	
185	Isoprene	39	1.775	1.771	(0.424)	56227	40.5342	40.53	

188 Isopropyl acetate	43	4.676	4.676 (0.942)	654077	49.4906	49.49
187 n-Amyl acetate	43	8.451	8.451 (1.102)	451123	46.9115	46.91

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
189 n-Butyl acetate	43	7.210	7.210	(0.940)	389990	50.7070	50.70
150 Allyl alcohol	57	2.772	2.772	(0.663)	235619	1009.19	1009.18
194 Acetaldehyde	44	1.216	1.212	(0.291)	49504	184.279	184.27(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	514505	48.6589	48.65
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	538113	50.5285	50.52
202 Isobutylene	41	1.242	1.242	(0.297)	21692	44.5092	44.50(M)
205 2-Ethylhexyl Acrylate	55	11.544	11.547	(1.195)	388849	51.8072	51.80

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.

01202750

right solutions.
right partner.

Raw Data VOA6 440138

Volatiles by EPA 8260

Workorder

HS23061812

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/07/2023

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\voa6.i\X230628.b\X062801.D Page 1
Report Date: 28-Jun-2023 12:06

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062801.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 28-JUN-2023 11:35
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\bfb.m
Meth Date : 14-Mar-2023 15:45 Linh.Pham 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: NAHSTW7051

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	
8.687	8.889	(0.000)	95	225216			0.00- 100.00	100.00
8.687	8.889	(0.000)	50	33800			15.00- 40.00	15.01
8.687	8.889	(0.000)	75	97800			30.00- 60.00	43.42
8.687	8.889	(0.000)	96	14712			5.00- 9.00	6.53
8.687	8.889	(0.000)	173	1724			0.00- 2.00	0.79
8.687	8.889	(0.000)	174	218944			50.00- 0.00	97.22
8.687	8.889	(0.000)	175	17424			5.00- 9.00	7.96
8.687	8.889	(0.000)	176	216064			95.00- 101.00	98.68
8.687	8.889	(0.000)	177	12437			5.00- 9.00	5.76

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.01
75	30.00 - 60.00% of mass 95	43.42
96	5.00 - 9.00% of mass 95	6.53
173	Less than 2.00% of mass 174	0.77 (0.79)
174	Greater than 50.00% of mass 95	97.22
175	5.00 - 9.00% of mass 174	7.74 (7.96)
176	95.00 - 101.00% of mass 174	95.94 (98.68)
177	5.00 - 9.00% of mass 176	5.52 (5.76)

Data File: X062801.D
Spectrum: Scan 2161 (8.69)
Location of Maximum: 95.00
Number of points: 116

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1619	67.00	596	103.80	1115	139.90	198
37.00	7527	68.00	18464	105.00	491	140.90	1606
38.00	5700	69.10	21032	105.90	934	141.90	184
39.00	3561	70.00	1868	106.80	483	143.00	1679
40.00	1437	71.00	346	108.70	140	145.00	161
41.10	581	71.90	1248	109.20	79	145.90	281
42.10	1151	73.00	7524	109.90	162	147.00	76
43.10	748	74.00	31512	110.90	181	147.90	632
44.00	1523	75.00	97800	111.70	84	148.90	242
45.00	1738	76.10	8022	112.80	196	150.00	167
46.10	125	76.90	1253	114.90	293	151.90	156
47.10	2635	77.90	666	115.90	774	153.00	174
47.80	962	78.90	4563	116.90	1348	153.80	206
49.00	7199	80.00	1411	117.90	723	154.90	648
50.00	33800	80.90	4547	118.90	1213	156.90	437
51.10	10486	81.90	1234	120.10	122	157.70	69
52.10	471	83.00	389	121.20	67	158.80	310
53.20	197	85.00	112	121.80	99	160.80	307
53.90	94	85.90	542	122.90	53	171.00	149
55.10	2220	87.00	9438	123.80	66	173.00	1724
56.00	2890	88.00	8871	124.80	58	173.90	218944
57.00	5660	90.90	815	125.90	87	175.00	17424
58.00	512	92.00	5071	126.70	113	175.90	216064
58.80	123	93.00	7516	127.90	675	176.90	12437
60.10	1492	94.00	23760	128.90	516	177.90	542
61.00	8409	95.00	225216	129.90	828	277.90	64
62.00	8553	96.00	14712	131.00	276		
63.10	5780	97.10	355	134.80	338		
64.10	687	98.00	852	136.00	65		
65.00	160	103.00	171	136.90	353		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062801.D

Date : 28-JUN-2023 11:35

Client ID: BFB

Instrument: voa6.i

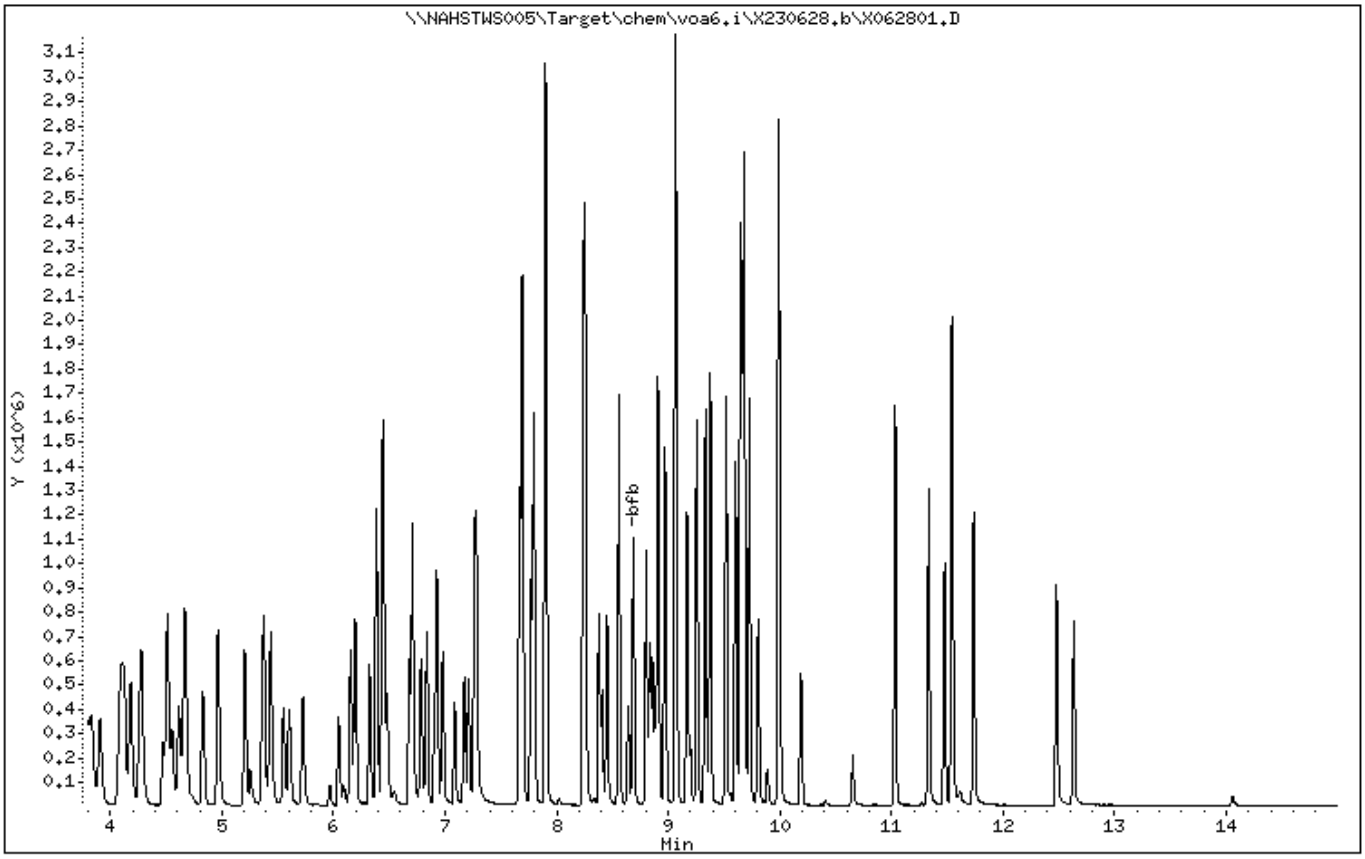
Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062801.D Page 2

Date : 28-JUN-2023 11:35

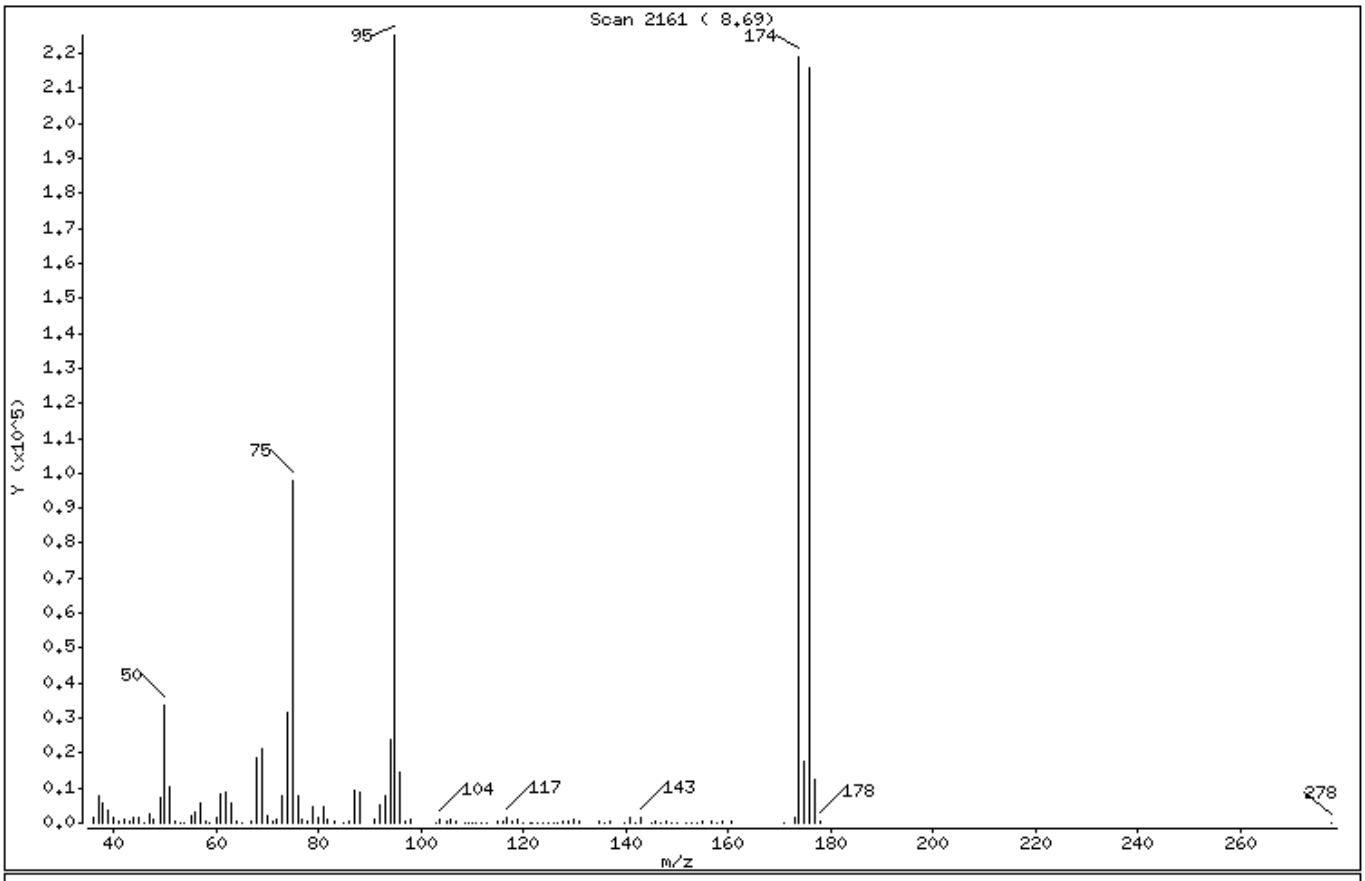
Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

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	15.01
75	30.00 - 60.00% of mass 95	43.42
96	5.00 - 9.00% of mass 95	6.53
173	Less than 2.00% of mass 174	0.77 (0.79)
174	Greater than 50.00% of mass 95	97.22
175	5.00 - 9.00% of mass 174	7.74 (7.96)
176	95.00 - 101.00% of mass 174	95.94 (98.68)
177	5.00 - 9.00% of mass 176	5.52 (5.76)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062801.D

Date : 28-JUN-2023 11:35

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

Data File: X062801.D
Spectrum: Scan 2161 (8.69)
Location of Maximum: 95.00
Number of points: 116

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1619	67.00	596	103.80	1115	139.90	198
37.00	7527	68.00	18464	105.00	491	140.90	1606
38.00	5700	69.10	21032	105.90	934	141.90	184
39.00	3561	70.00	1868	106.80	483	143.00	1679
40.00	1437	71.00	346	108.70	140	145.00	161
41.10	581	71.90	1248	109.20	79	145.90	281
42.10	1151	73.00	7524	109.90	162	147.00	76
43.10	748	74.00	31512	110.90	181	147.90	632
44.00	1523	75.00	97800	111.70	84	148.90	242
45.00	1738	76.10	8022	112.80	196	150.00	167
46.10	125	76.90	1253	114.90	293	151.90	156
47.10	2635	77.90	666	115.90	774	153.00	174
47.80	962	78.90	4563	116.90	1348	153.80	206
49.00	7199	80.00	1411	117.90	723	154.90	648
50.00	33800	80.90	4547	118.90	1213	156.90	437
51.10	10486	81.90	1234	120.10	122	157.70	69
52.10	471	83.00	389	121.20	67	158.80	310
53.20	197	85.00	112	121.80	99	160.80	307
53.90	94	85.90	542	122.90	53	171.00	149
55.10	2220	87.00	9438	123.80	66	173.00	1724
56.00	2890	88.00	8871	124.80	58	173.90	218944
57.00	5660	90.90	815	125.90	87	175.00	17424
58.00	512	92.00	5071	126.70	113	175.90	216064
58.80	123	93.00	7516	127.90	675	176.90	12437
60.10	1492	94.00	23760	128.90	516	177.90	542
61.00	8409	95.00	225216	129.90	828	277.90	64
62.00	8553	96.00	14712	131.00	276		
63.10	5780	97.10	355	134.80	338		
64.10	687	98.00	852	136.00	65		
65.00	160	103.00	171	136.90	353		

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062803.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 28-JUN-2023 12:17
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\8260W.m
Meth Date : 06-Jul-2023 12:06 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.181	(1.000)	445170	50.0000	
135 1,4-Dioxane	88	5.595	5.595	(1.338)	57196	1000.00	1060.17
140 1,3-Butadiene	54	1.171	1.171	(0.280)	148742	50.0000	40.31
25 Methacrylonitrile	41	3.825	3.825	(0.915)	157099	50.0000	42.76
12 Isobutyl Alcohol	43	4.676	4.676	(1.118)	506637	1000.00	872.82
13 Acetonitrile	39	2.202	2.202	(0.527)	176697	500.000	409.22
14 Allyl Chloride	41	2.202	2.202	(0.527)	396287	50.0000	40.59
4 Propionitrile	54	3.653	3.653	(0.874)	236277	500.000	438.86
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	70660	50.0000	47.20
194 Acetaldehyde	44	1.216	1.216	(0.291)	39832	200.000	169.50(M)
23 Chloroprene	53	1.775	1.775	(0.425)	61885	50.0000	41.82(M)
130 Ethyl Acetate	43	3.657	3.657	(0.875)	183515	50.0000	40.44
40 Methyl Methacrylate	41	5.606	5.606	(1.341)	150538	50.0000	43.68
49 Ethyl Methacrylate	69	6.708	6.708	(1.351)	197312	50.0000	42.16
131 Methyl Acrylate	55	3.690	3.690	(0.883)	174131	50.0000	48.29
136 n-Hexane	57	2.776	2.776	(0.664)	195784	50.0000	48.13
139 Diethyl ether	59	1.764	1.764	(0.422)	120729	50.0000	43.28
156 Diisopropyl ether	45	3.001	3.001	(0.718)	537478	50.0000	40.93
166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	833761	50.0000	49.59
2 Dichlorodifluoromethane	85	0.980	0.980	(0.234)	173875	50.0000	45.38

3 Chloromethane	50	1.085	1.085 (0.260)	208872	50.0000	44.50
5 Vinyl Chloride	62	1.149	1.149 (0.275)	197782	50.0000	42.30

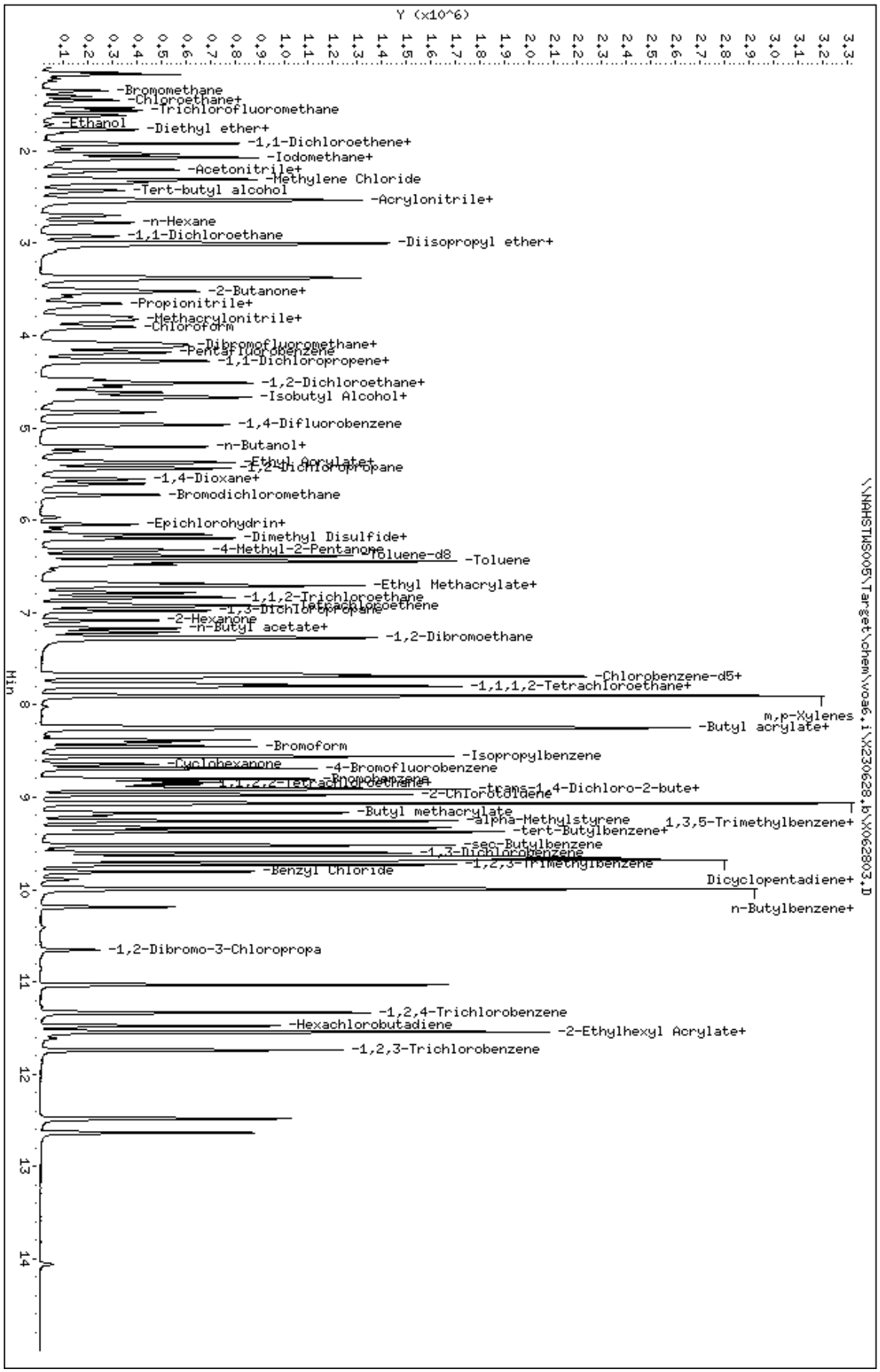
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	6 Bromomethane	94	1.344	1.344	(0.321)	129082	50.0000	48.09
	7 Chloroethane	64	1.407	1.407	(0.337)	126230	50.0000	44.17
	8 Trichlorofluoromethane	101	1.565	1.565	(0.374)	254344	50.0000	45.78
	9 Acrolein	56	1.452	1.452	(0.347)	24883	100.000	90.07
	10 Acetone	43	1.977	1.977	(0.473)	93148	100.000	80.19(M)
	11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	153448	50.0000	44.02
	15 Iodomethane	142	2.034	2.034	(0.486)	597776	100.000	103.26
	16 Acrylonitrile	53	2.536	2.536	(0.606)	119101	100.000	84.28
	17 Methylene Chloride	84	2.307	2.307	(0.552)	216533	50.0000	43.98
	18 Methyl tert-butyl ether	73	2.540	2.540	(0.607)	523423	50.0000	43.02
	19 Carbon Disulfide	76	2.075	2.075	(0.496)	1047937	100.000	84.44
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	191092	50.0000	45.82
	21 Vinyl Acetate	43	3.001	3.001	(0.718)	1009795	100.000	90.71
	22 1,1-Dichloroethane	63	2.922	2.922	(0.699)	329718	50.0000	43.88
	24 2-Butanone	43	3.578	3.578	(0.856)	130263	100.000	88.91
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	276853	50.0000	46.69
	27 cis-1,2-Dichloroethene	96	3.529	3.529	(0.844)	224284	50.0000	46.63
	28 Chloroform	83	3.908	3.908	(0.935)	355817	50.0000	44.00
	29 Bromochloromethane	128	3.795	3.795	(0.908)	125707	50.0000	49.05
$	30 Dibromofluoromethane	113	4.099	4.099	(0.980)	188522	50.0000	47.40
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.977)	288035	50.0000	44.07
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	257031	50.0000	46.98
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	255557	50.0000	46.62
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	251386	50.0000	47.78
$	35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.070)	187697	50.0000	43.62
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	652801	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	814368	50.0000	48.49
	38 Trichloroethene	130	5.209	5.209	(1.049)	240164	50.0000	51.87
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	283522	50.0000	47.73
	41 2-Chloroethylvinyl ether	63	6.045	6.045	(1.217)	160796	100.000	100.03
	42 1,2-Dichloropropane	63	5.434	5.434	(1.094)	212129	50.0000	48.12
	44 Dibromomethane	93	5.553	5.553	(1.119)	140762	50.0000	50.87
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.825)	359629	100.000	90.52
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	364040	50.0000	49.70
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	614999	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	736810	50.0000	47.38
	50 Toluene	91	6.446	6.446	(0.841)	907252	50.0000	50.25
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	308263	50.0000	50.30
	52 2-Hexanone	43	7.083	7.083	(0.924)	246905	100.000	93.04
	53 1,1,2-Trichloroethane	83	6.836	6.836	(0.891)	176456	50.0000	50.16
	54 1,3-Dichloropropane	76	6.978	6.978	(0.910)	355873	50.0000	50.03
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	260927	50.0000	52.34
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	192297	50.0000	51.79
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	229492	50.0000	51.04
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	175371	50.0000	44.17
	59 Chlorobenzene	112	7.690	7.690	(1.003)	640022	50.0000	51.80
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	242462	50.0000	52.63
	61 Ethylbenzene	106	7.795	7.795	(1.017)	318366	50.0000	50.01
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	823241	100.000	104.88
	63 o-Xylene	106	8.238	8.238	(1.074)	397400	50.0000	50.73
	64 Styrene	104	8.256	8.256	(1.077)	691285	50.0000	53.58
	66 Bromoform	173	8.410	8.410	(1.097)	192723	50.0000	55.45

67	Isopropylbenzene	105	8.560	8.560 (1.116)	958645	50.0000	49.51
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837 (0.915)	300039	50.0000	48.24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	293762	50.0000	48.91
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	353668	50.0000	
	71 1,2,3-Trichloropropane	75	8.860	8.860	(0.917)	230678	50.0000	51.72(M)
	73 n-Propylbenzene	91	8.909	8.909	(0.922)	1130641	50.0000	48.58
	74 Bromobenzene	156	8.804	8.804	(0.911)	308281	50.0000	53.48
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	846503	50.0000	49.56
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	705871	50.0000	47.76
	77 4-Chlorotoluene	91	9.066	9.066	(0.938)	826581	50.0000	50.14
	78 tert-Butylbenzene	119	9.332	9.332	(0.966)	700326	50.0000	49.22
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	869960	50.0000	50.49
	81 sec-Butylbenzene	105	9.520	9.520	(0.985)	978606	50.0000	48.77
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	880816	50.0000	50.13
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	532320	50.0000	51.86
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	560121	50.0000	50.98
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	760381	50.0000	50.81
	88 1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	534918	50.0000	52.52
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	56147	50.0000	55.29
	90 1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	392925	50.0000	55.46
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	174579	50.0000	54.90
	92 Naphthalene	128	11.540	11.540	(1.194)	879714	50.0000	55.16
	93 1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	365529	50.0000	56.07
M	94 1,2-Dichloroethylene (total)	96				415376	100.000	(a)
	141 Cyclohexane	56	4.121	4.121	(0.986)	245199	50.0000	43.20
	138 Freon TF	101	1.921	1.921	(0.459)	148210	50.0000	47.89
	147 Methylcyclohexane	55	5.381	5.381	(1.084)	439782	50.0000	48.20
	146 Methyl Acetate	43	2.236	2.236	(0.535)	109693	50.0000	41.63
	148 Tert-Butyl alcohol	59	2.431	2.431	(0.581)	395904	1000.00	866.04
	149 Isopropyl Alcohol	45	2.097	2.097	(0.502)	212890	1000.00	843.69

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Sample Info: CCV;CCV;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 28-JUN-2023 12:17
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LabSampID : CCV

Acetone (67-64-1)

Reason Code:

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06-Jul-2023
12:06
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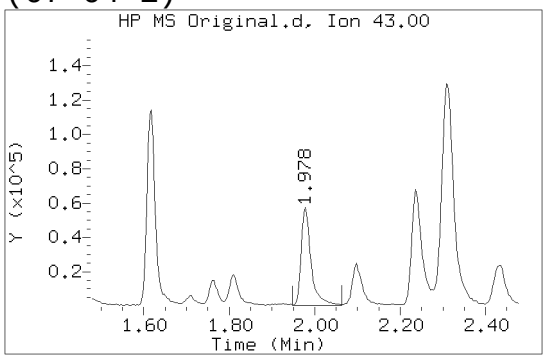

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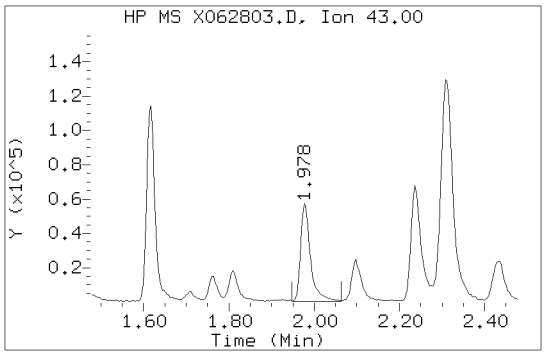

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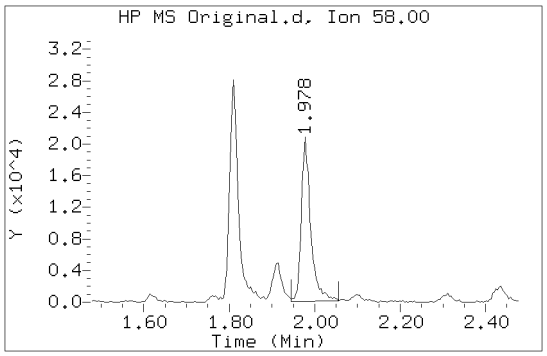

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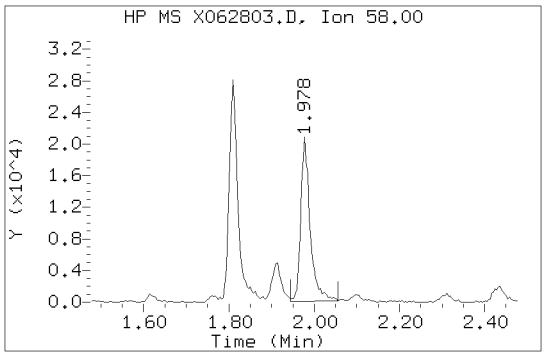

1,2,3-Trichloropropane (96-18-4)

Reason Code:

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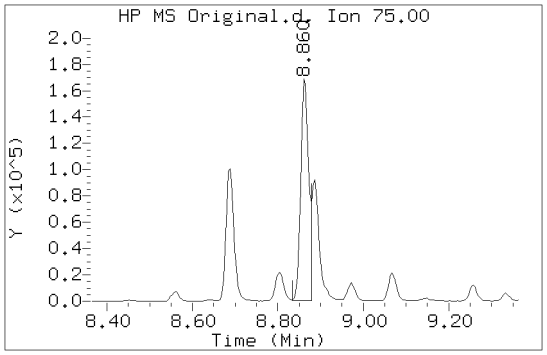

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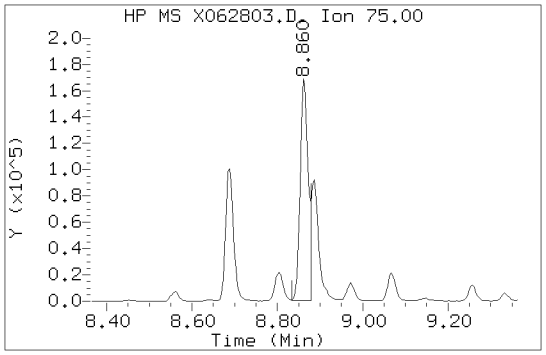

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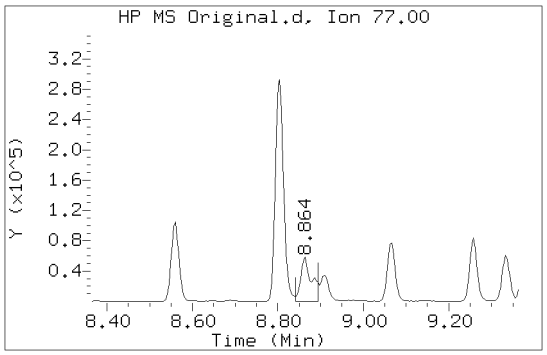

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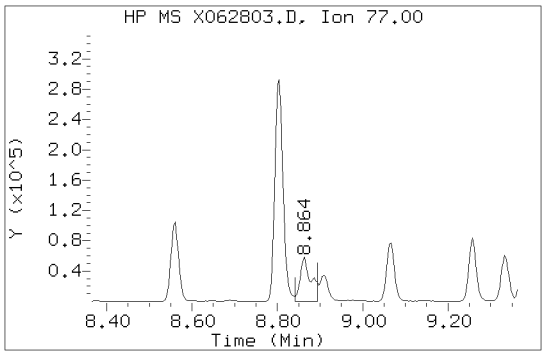

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LabSampID : CCV

Chloroprene (126-99-8)

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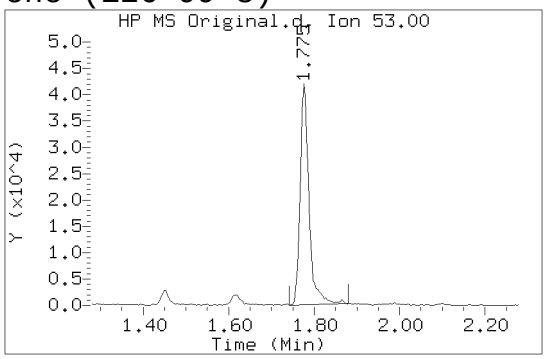

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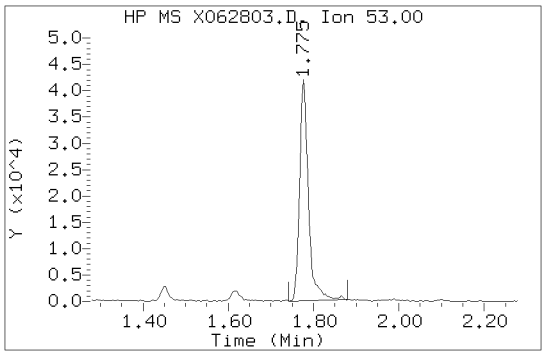

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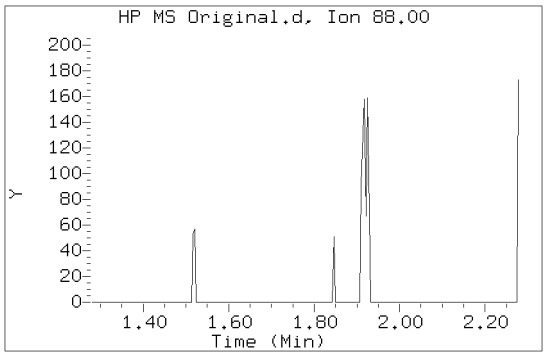

AFTER
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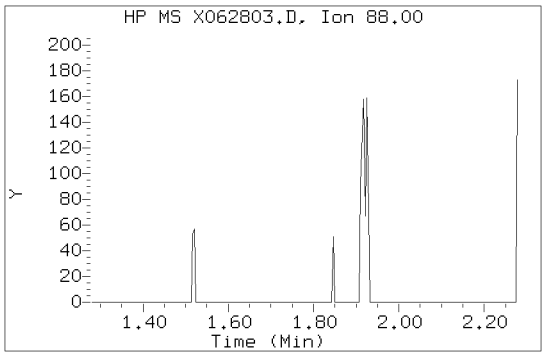

Acetaldehyde (75-07-0)

Reason Code:

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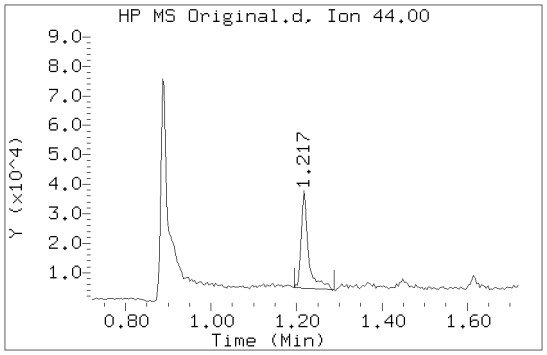

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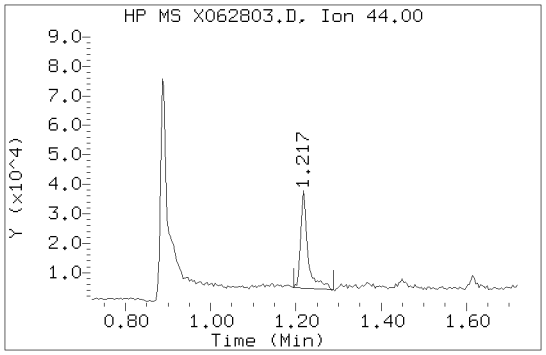

BEFORE
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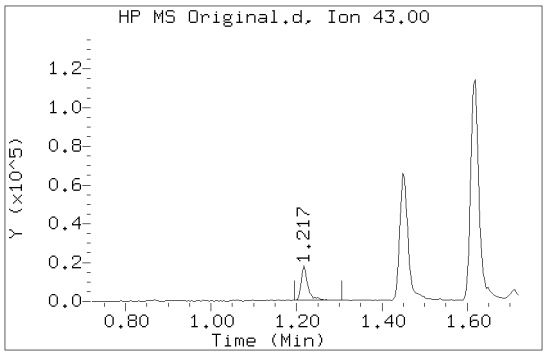

AFTER
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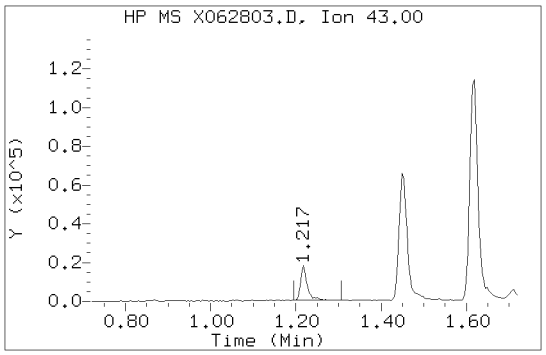

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Inj Date : 28-JUN-2023 12:17
InstruID : voa6.i
LabSampID : CCV

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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06-Jul-2023
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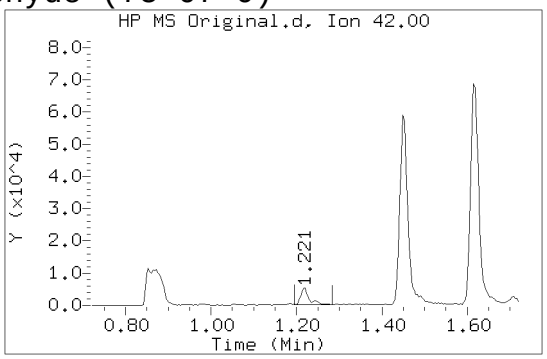

AFTER

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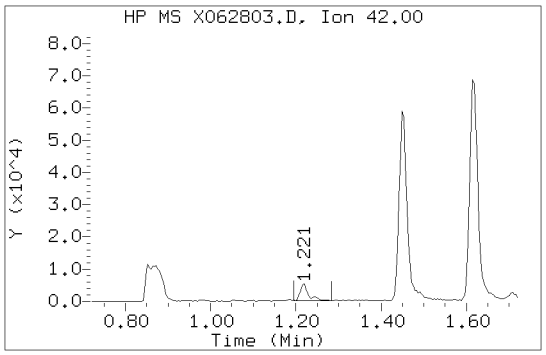

ALS Laboratory Group

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Meth Date : 06-Jul-2023 12:06 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.181	(1.000)	459438	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.980)	185085	45.0742	45.07
$ 35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.070)	182351	41.0201	41.02
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	640871	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	571078	50.0000	
$ 48 Toluene-d8	98	6.386	6.386	(0.833)	746788	51.7234	51.72
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	255747	45.8251	45.82
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	288006	50.0000	

01202767

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062804.D

Date : 28-JUN-2023 12:38

Client ID: CCB

Instrument: voa6.i

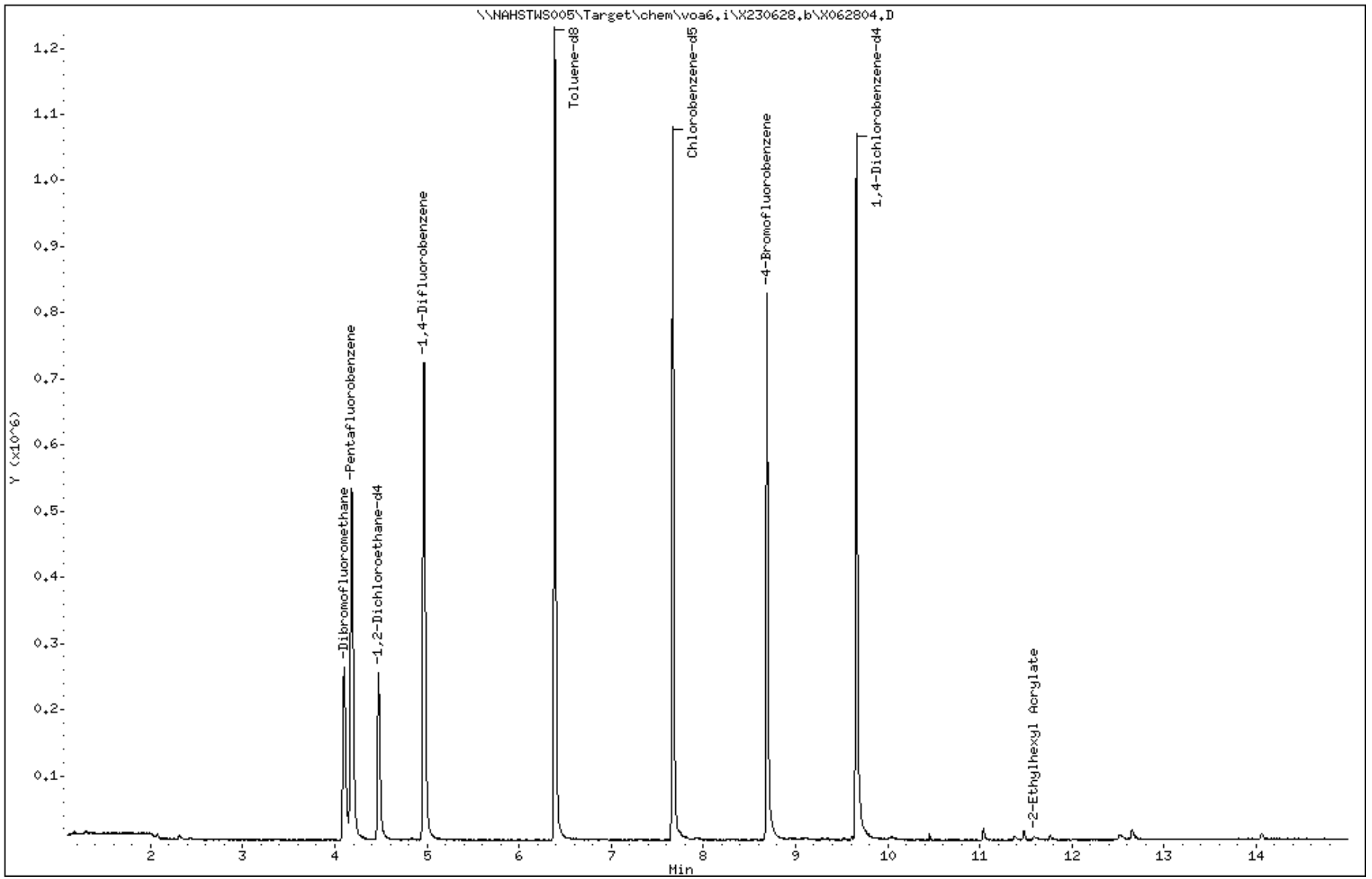
Sample Info: CCB;CCB;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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InstruID : voa6.i
LabSampID : CCB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062805.D Page 1
Report Date: 06-Jul-2023 12:06

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062805.D
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Inj Date : 28-JUN-2023 12:59
Operator : PC Inst ID: voa6.i
Smp Info : VLCSW-230628;VLCSW-230628;3;;LCS
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\8260W.m
Meth Date : 06-Jul-2023 12:06 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.181	(1.000)	436174	50.0000	
135 1,4-Dioxane	88	5.598	5.595	(1.339)	20573	389.204	389.20(a)
140 1,3-Butadiene	54	1.171	1.171	(0.280)	65516	18.1255	18.12
25 Methacrylonitrile	41	3.825	3.825	(0.915)	61370	17.0523	17.05
12 Isobutyl Alcohol	43	4.676	4.676	(1.118)	197920	348.006	348.00
13 Acetonitrile	39	2.206	2.202	(0.528)	70229	166.002	166.00
14 Allyl Chloride	41	2.206	2.202	(0.528)	157036	16.4172	16.41
4 Propionitrile	54	3.653	3.653	(0.874)	92815	175.952	175.95(a)
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	27104	18.4220	18.42
194 Acetaldehyde	44	1.216	1.216	(0.291)	14592	61.2186	61.21(M)
23 Chloroprene	53	1.779	1.775	(0.425)	27081	18.6801	18.68(M)
130 Ethyl Acetate	43	3.664	3.657	(0.876)	75761	17.0398	17.03
40 Methyl Methacrylate	41	5.606	5.606	(1.341)	57107	16.9126	16.91
49 Ethyl Methacrylate	69	6.708	6.708	(1.351)	73970	15.9679	15.96
131 Methyl Acrylate	55	3.698	3.690	(0.884)	56044	15.8647	15.86
136 n-Hexane	57	2.779	2.776	(0.665)	80008	20.5888	20.58
139 Diethyl ether	59	1.764	1.764	(0.422)	50642	18.5325	18.53
156 Diisopropyl ether	45	3.004	3.001	(0.719)	214177	16.6494	16.64
166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	329717	19.8697	19.86
2 Dichlorodifluoromethane	85	0.980	0.980	(0.234)	71991	19.3710	19.37

3 Chloromethane	50	1.085	1.085 (0.260)	91611	20.4881	20.48
5 Vinyl Chloride	62	1.149	1.149 (0.275)	86656	18.9174	18.91

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062805.D Page 2
Report Date: 06-Jul-2023 12:06

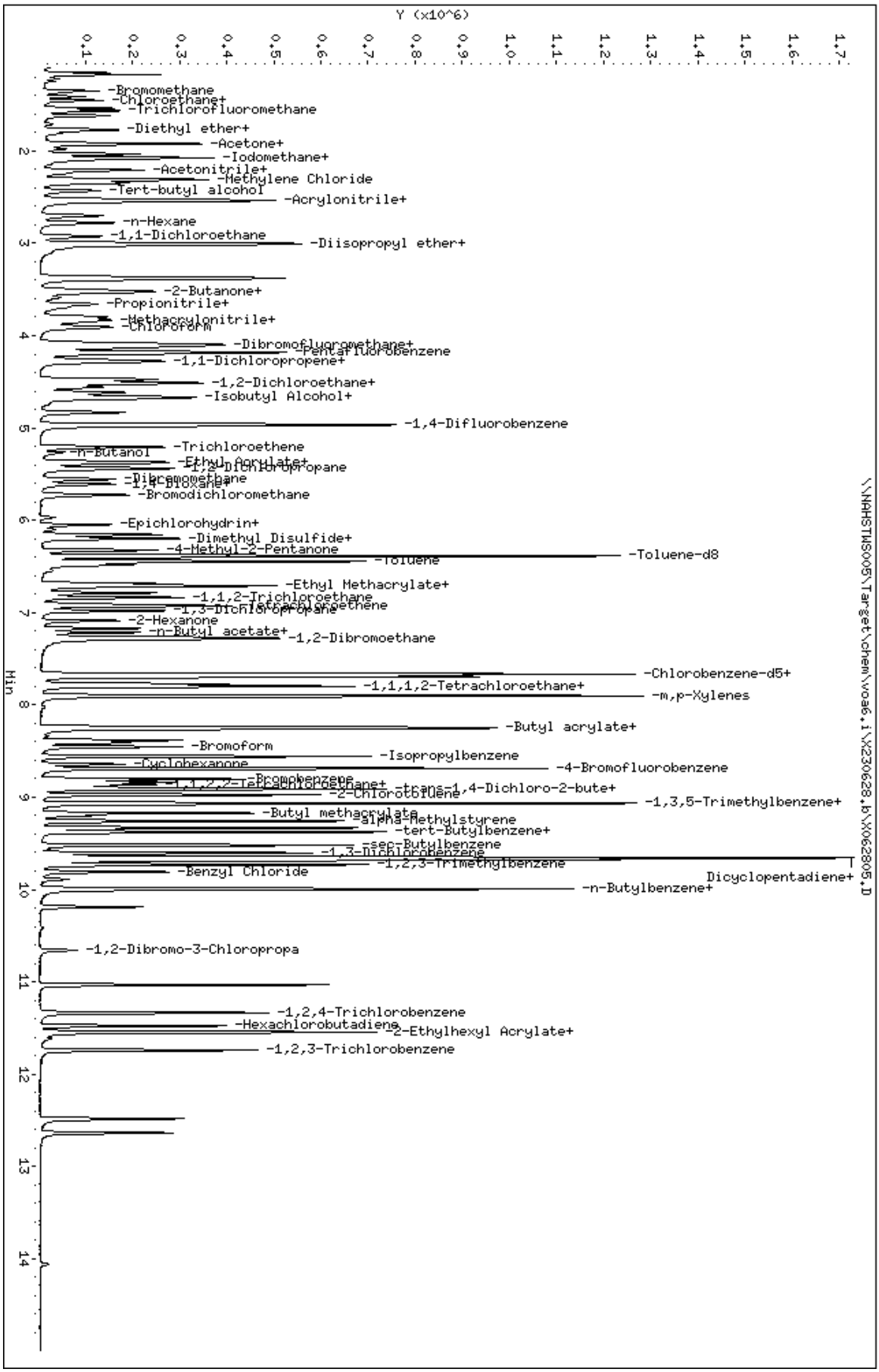
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	6 Bromomethane	94	1.347	1.344	(0.322)	55096	20.9537	20.95
	7 Chloroethane	64	1.411	1.407	(0.338)	54898	19.6060	19.60
	8 Trichlorofluoromethane	101	1.565	1.565	(0.374)	102613	18.8506	18.85
	9 Acrolein	56	1.449	1.452	(0.347)	10506	38.8173	38.81
	10 Acetone	43	1.977	1.977	(0.473)	36775	32.1502	32.15
	11 1,1-Dichloroethene	96	1.921	1.917	(0.459)	64779	18.9700	18.96
	15 Iodomethane	142	2.033	2.034	(0.486)	210420	38.8819	38.88
	16 Acrylonitrile	53	2.543	2.536	(0.608)	46382	33.5008	33.50
	17 Methylene Chloride	84	2.311	2.307	(0.553)	90882	18.8415	18.84
	18 Methyl tert-butyl ether	73	2.540	2.540	(0.607)	207722	17.4285	17.42
	19 Carbon Disulfide	76	2.075	2.075	(0.496)	431018	35.4480	35.44
	20 trans-1,2-Dichloroethene	96	2.536	2.532	(0.606)	77640	19.0008	19.00
	21 Vinyl Acetate	43	3.004	3.001	(0.719)	392192	35.9610	35.96
	22 1,1-Dichloroethane	63	2.926	2.922	(0.700)	133151	18.0886	18.08
	24 2-Butanone	43	3.589	3.578	(0.858)	45694	31.8330	31.83
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	112388	19.3448	19.34
	27 cis-1,2-Dichloroethene	96	3.529	3.529	(0.844)	89889	19.0764	19.07
	28 Chloroform	83	3.908	3.908	(0.935)	141092	17.8084	17.80
	29 Bromochloromethane	128	3.799	3.795	(0.909)	48607	19.3581	19.35
$	30 Dibromofluoromethane	113	4.103	4.099	(0.981)	183643	47.1241	47.12
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.977)	114871	17.9387	17.93
	32 1,1-Dichloropropene	75	4.283	4.279	(0.863)	103148	19.0466	19.04
	33 1,2-Dichloroethane	62	4.560	4.556	(0.918)	103310	19.0379	19.03
	34 Carbon Tetrachloride	117	4.268	4.264	(0.860)	97829	18.7833	18.78
$	35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.070)	181287	42.9964	42.99
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	646299	50.0000	
	37 Benzene	78	4.515	4.511	(0.909)	327921	19.7251	19.72
	38 Trichloroethene	130	5.209	5.209	(1.049)	95416	20.8164	20.81
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	111117	18.8952	18.89
	41 2-Chloroethylvinyl ether	63	6.048	6.045	(1.218)	62815	39.4737	39.47
	42 1,2-Dichloropropane	63	5.437	5.434	(1.095)	85081	19.4977	19.49
	44 Dibromomethane	93	5.553	5.553	(1.119)	55328	20.1981	20.19
	45 4-Methyl-2-Pentanone	43	6.326	6.322	(0.825)	139212	35.6513	35.65
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	141675	19.5392	19.53
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	604485	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	723710	47.3548	47.35
	50 Toluene	91	6.446	6.446	(0.841)	366722	20.6650	20.66
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	117398	19.3516	19.35
	52 2-Hexanone	43	7.087	7.083	(0.924)	92523	35.4725	35.47
	53 1,1,2-Trichloroethane	83	6.835	6.836	(0.891)	68402	19.7850	19.78
	54 1,3-Dichloropropane	76	6.978	6.978	(0.910)	138354	19.7922	19.79
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	98931	20.1910	20.19
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	76551	20.9770	20.97
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	88585	20.0463	20.04
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	75213	19.1367	19.13
	59 Chlorobenzene	112	7.694	7.690	(1.003)	255464	21.0386	21.03
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	90724	20.0371	20.03
	61 Ethylbenzene	106	7.799	7.795	(1.017)	129682	20.7289	20.72
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	333328	43.2052	43.20
	63 o-Xylene	106	8.241	8.238	(1.075)	160914	20.9024	20.90
	64 Styrene	104	8.260	8.256	(1.077)	273259	21.5496	21.54
	66 Bromoform	173	8.410	8.410	(1.097)	69725	20.4123	20.41

67	Isopropylbenzene	105	8.560	8.560 (1.116)	392638	20.6344	20.63
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837 (0.915)	115399	18.7992	18.79

							CONCENTRATIONS	
		QUANT SIG					ON-COLUMN	FINAL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	286490	48.5280	48.52
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	349101	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.860	(0.917)	83106	18.8802	18.88
	73 n-Propylbenzene	91	8.912	8.909	(0.922)	463378	20.1709	20.17
	74 Bromobenzene	156	8.803	8.804	(0.911)	119953	21.0818	21.08
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	341832	20.2788	20.27
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	288133	19.7510	19.75
	77 4-Chlorotoluene	91	9.070	9.066	(0.939)	330534	20.3127	20.31
	78 tert-Butylbenzene	119	9.332	9.332	(0.966)	287426	20.4668	20.46
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	343512	20.1983	20.19
	81 sec-Butylbenzene	105	9.519	9.520	(0.985)	398584	20.1240	20.12
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	355915	20.5248	20.52
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	213356	21.0593	21.05
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	226448	20.8822	20.88
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	305792	20.7047	20.70
	88 1,2-Dichlorobenzene	146	9.992	9.988	(1.034)	211249	21.0148	21.01
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	20495	20.6129	20.61
	90 1,2,4-Trichlorobenzene	180	11.338	11.334	(1.173)	149773	21.4182	21.41
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	68142	21.7091	21.70
	92 Naphthalene	128	11.544	11.540	(1.195)	325317	20.6657	20.66
	93 1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	140314	21.8065	21.80
M	94 1,2-Dichloroethylene (total)	96				167529	38.0773	38.07
M	95 Xylenes (total)	106				494242	64.1076	64.10
	141 Cyclohexane	56	4.121	4.121	(0.986)	106615	19.1753	19.17
	138 Freon TF	101	1.921	1.921	(0.459)	63079	21.0392	21.03
	147 Methylcyclohexane	55	5.385	5.381	(1.085)	172520	19.0993	19.09
	146 Methyl Acetate	43	2.240	2.236	(0.536)	42360	16.4080	16.40
	148 Tert-Butyl alcohol	59	2.431	2.431	(0.581)	146571	327.239	327.23
	149 Isopropyl Alcohol	45	2.101	2.097	(0.503)	80013	323.636	323.63

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Purge Volume: 5.0
Column phase: DB624

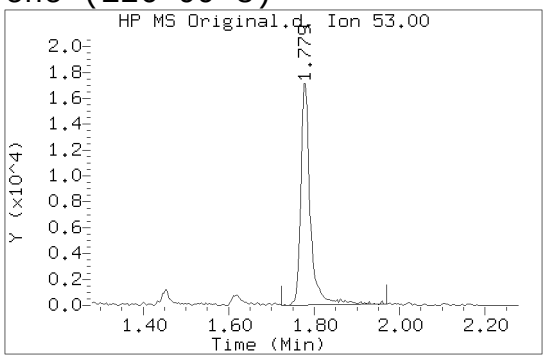
Instrument: voa6,i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062805.D
Inj Date : 28-JUN-2023 12:59
InstruID : voa6.i
LabSampID : VLCSW-230628

Chloroprene (126-99-8)

Reason Code:

BEFORE
MASS
53
AREA
27081
HEIGHT
17103
06-Jul-2023
12:06
linh
pham



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MASS
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27081
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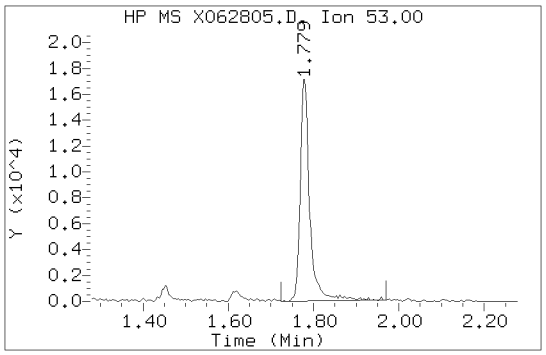

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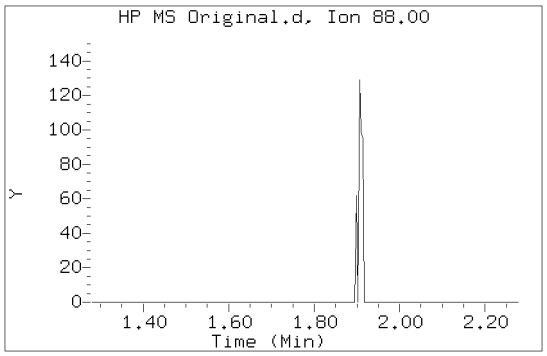

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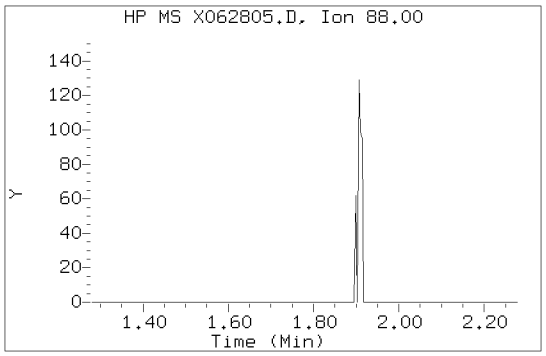

Acetaldehyde (75-07-0)

Reason Code:

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HEIGHT
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06-Jul-2023
12:06
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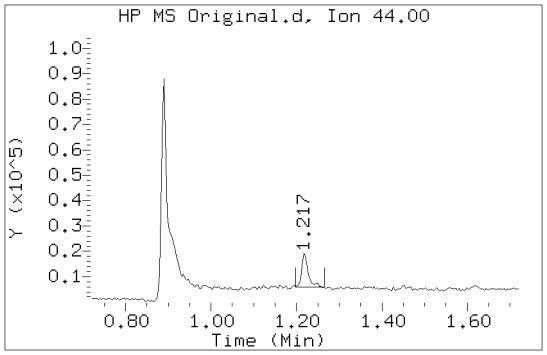

AFTER
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12:06
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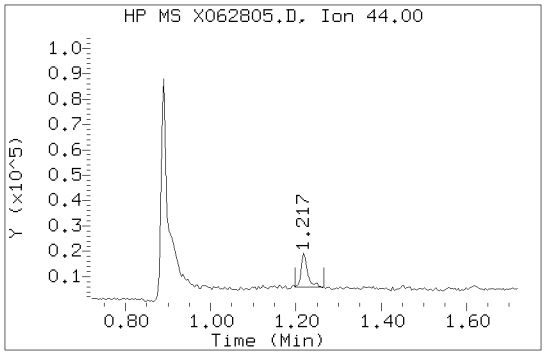

BEFORE
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12:06
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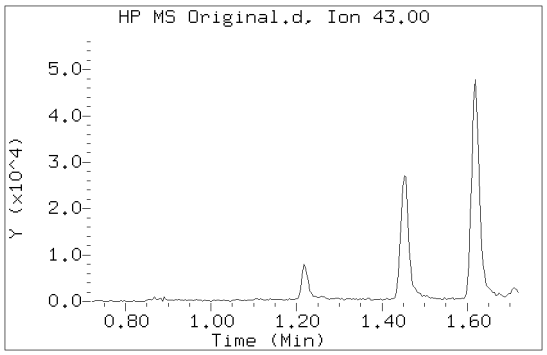
pham



AFTER
MASS
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AREA
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HEIGHT
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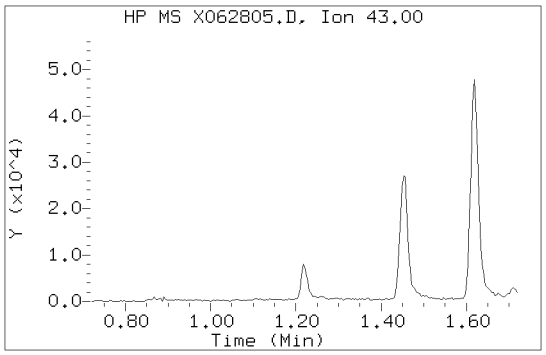
06-Jul-2023
12:06
linh
pham



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Inj Date : 28-JUN-2023 12:59
InstruID : voa6.i
LabSampID : VLCSW-230628

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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42
AREA
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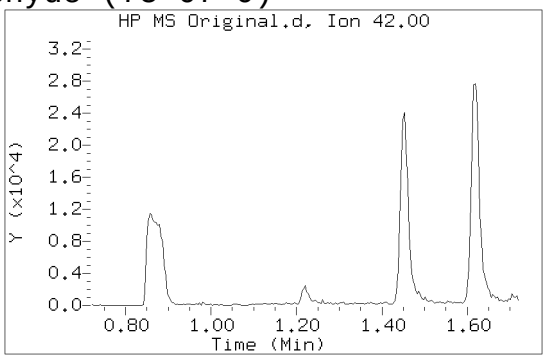
HEIGHT
0
06-Jul-2023
12:06
linh
pham



AFTER

MASS
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AREA
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HEIGHT
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06-Jul-2023
12:06
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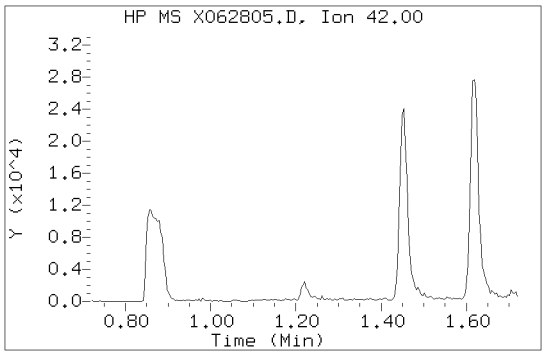

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Report Date: 06-Jul-2023 12:06

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062807.D
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Inj Date : 28-JUN-2023 13:41
Operator : PC Inst ID: voa6.i
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Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 06-Jul-2023 12:06 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.185	4.181	(1.000)	460197	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.099	(0.980)	180865	43.9654	43.96
$ 35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.069)	180528	40.5330	40.53
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	633322	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.668	(1.000)	567901	50.0000	
$ 48 Toluene-d8	98	6.386	6.386	(0.832)	733653	51.0979	51.09
$ 69 4-Bromofluorobenzene	95	8.691	8.687	(1.133)	257730	46.4459	46.44
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	290927	50.0000	

01202778

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062807.D

Page 1

Date : 28-JUN-2023 13:41

Client ID: VBLKW-230628

Instrument: voa6.i

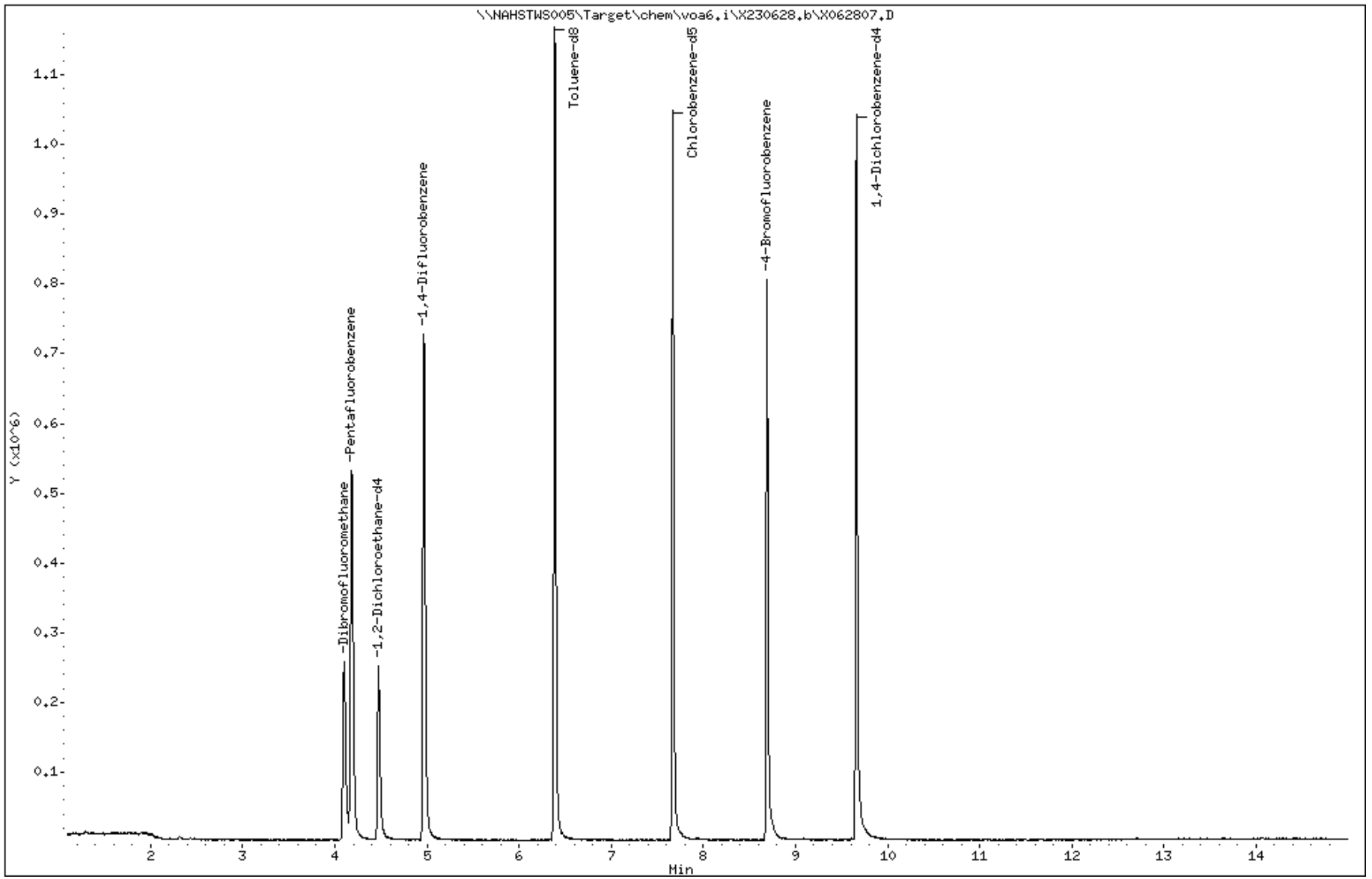
Sample Info: VBLKW-230628;VBLKW-230628;3;;BLANK

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Inj Date : 28-JUN-2023 13:41
InstruID : voa6.i
LabSampID : VBLKW-230628

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062811.D
Lab Smp Id: HS23061821-02MS Client Smp ID: HS230611821-02MS
Inj Date : 28-JUN-2023 15:06
Operator : PC Inst ID: voa6.i
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Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\8260W.m
Meth Date : 06-Jul-2023 12:06 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 10 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.181	(1.000)	461005	50.0000	
135 1,4-Dioxane	88	5.598	5.595	(1.339)	19825	354.852	354.85(a)
140 1,3-Butadiene	54	1.171	1.171	(0.280)	67222	17.5958	17.59
25 Methacrylonitrile	41	3.829	3.825	(0.916)	62797	16.5090	16.50
12 Isobutyl Alcohol	43	4.676	4.676	(1.118)	186953	311.017	311.01
13 Acetonitrile	39	2.202	2.202	(0.527)	78040	174.530	174.52
14 Allyl Chloride	41	2.206	2.202	(0.528)	172017	17.0147	17.01
4 Propionitrile	54	3.657	3.653	(0.875)	97692	175.222	175.22(a)
72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	23515	16.3731	16.37
194 Acetaldehyde	44	1.216	1.216	(0.291)	22445	90.6622	90.66(M)
23 Chloroprene	53	1.775	1.775	(0.425)	26533	17.3163	17.31(M)
130 Ethyl Acetate	43	3.657	3.657	(0.875)	72976	15.5294	15.52
40 Methyl Methacrylate	41	5.610	5.606	(1.342)	59315	16.6203	16.62
49 Ethyl Methacrylate	69	6.708	6.708	(1.351)	81453	17.4250	17.42
131 Methyl Acrylate	55	3.698	3.690	(0.884)	61729	16.5327	16.53
136 n-Hexane	57	2.776	2.776	(0.664)	93535	22.7444	22.74
139 Diethyl ether	59	1.764	1.764	(0.422)	48215	16.6940	16.69
156 Diisopropyl ether	45	3.004	3.001	(0.719)	224596	16.5189	16.51
166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	357933	23.5266	23.52
2 Dichlorodifluoromethane	85	0.980	0.980	(0.234)	64393	16.4443	16.44

3 Chloromethane	50	1.085	1.085 (0.260)	99088	20.9426	20.94
5 Vinyl Chloride	62	1.149	1.149 (0.275)	85335	17.6256	17.62

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062811.D Page 2
Report Date: 06-Jul-2023 12:07

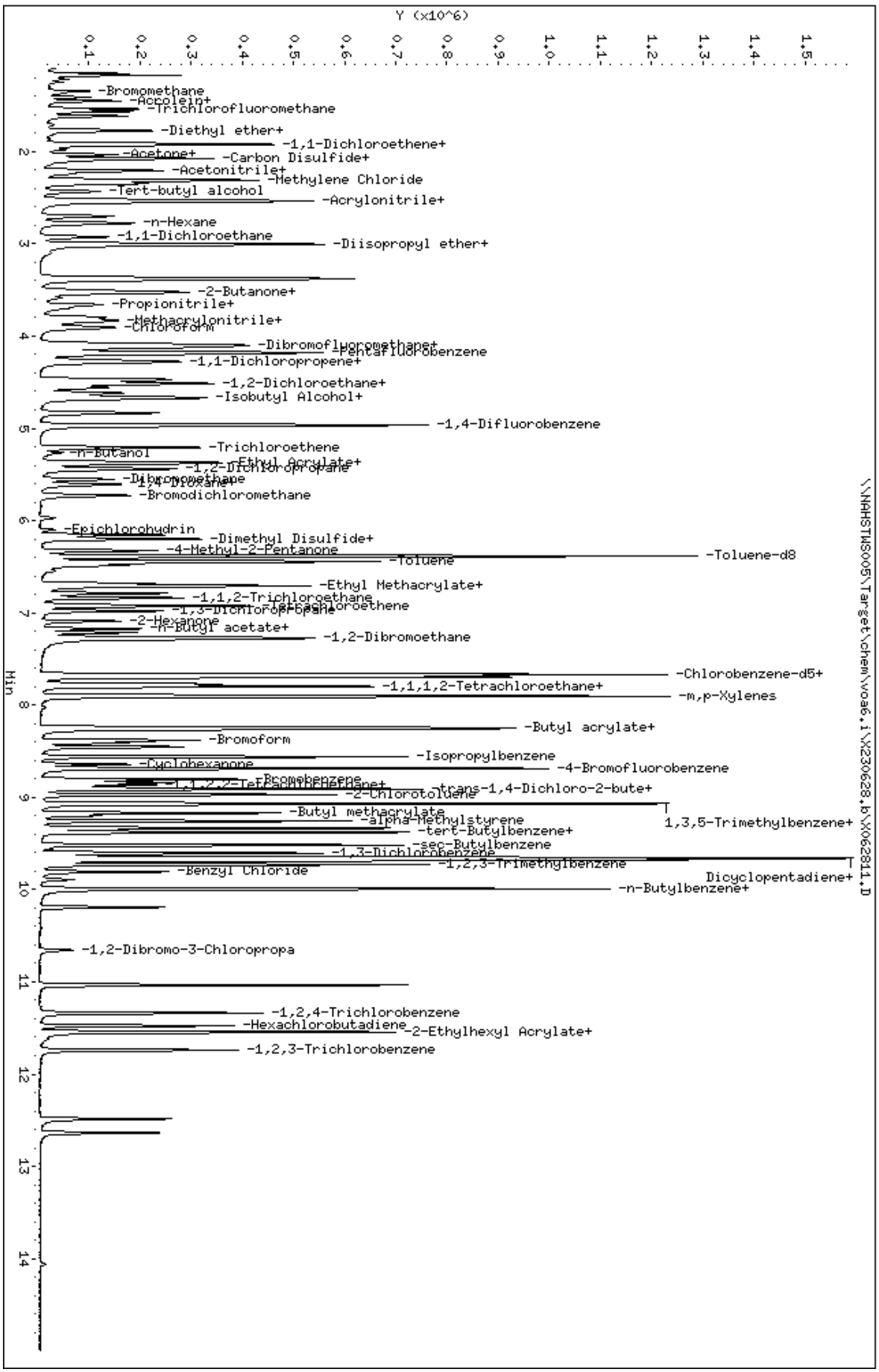
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	6 Bromomethane	94	1.347	1.344	(0.322)	38951	14.0156	14.01
	7 Chloroethane	64	1.407	1.407	(0.337)	55119	18.6247	18.62(M)
	8 Trichlorofluoromethane	101	1.565	1.565	(0.374)	106921	18.5840	18.58
	9 Acrolein	56	1.452	1.452	(0.347)	11186	39.1037	39.10
	10 Acetone	43	1.981	1.977	(0.474)	30949	25.5441	25.54
	11 1,1-Dichloroethene	96	1.921	1.917	(0.459)	66152	18.3286	18.32
	15 Iodomethane	142	2.033	2.034	(0.486)	151004	27.1811	27.18
	16 Acrylonitrile	53	2.543	2.536	(0.608)	50335	34.3978	34.39
	17 Methylene Chloride	84	2.311	2.307	(0.553)	97138	19.0538	19.05
	18 Methyl tert-butyl ether	73	2.536	2.540	(0.606)	209051	16.5953	16.59
	19 Carbon Disulfide	76	2.075	2.075	(0.496)	405469	31.5506	31.55
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	75432	17.4662	17.46
	21 Vinyl Acetate	43	3.004	3.001	(0.719)	356026	30.8865	30.88
	22 1,1-Dichloroethane	63	2.926	2.922	(0.700)	132846	17.0751	17.07
	24 2-Butanone	43	3.589	3.578	(0.858)	43728	28.8226	28.82
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	111130	18.0977	18.09
	27 cis-1,2-Dichloroethene	96	3.529	3.529	(0.844)	114869	23.0647	23.06
	28 Chloroform	83	3.908	3.908	(0.935)	134071	16.0107	16.01
	29 Bromochloromethane	128	3.799	3.795	(0.909)	45060	16.9789	16.97
$	30 Dibromofluoromethane	113	4.103	4.099	(0.981)	186047	45.1551	45.15
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.977)	117486	17.3589	17.35
	32 1,1-Dichloropropene	75	4.283	4.279	(0.863)	105986	19.3946	19.39
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	104155	19.0209	19.02
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	105108	19.9993	19.99
$	35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.070)	183485	41.1373	41.13
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	652167	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	314795	18.7652	18.76
	38 Trichloroethene	130	5.209	5.209	(1.049)	111569	24.1214	24.12
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	102413	17.2584	17.25
	42 1,2-Dichloropropane	63	5.437	5.434	(1.095)	78252	17.7714	17.77
	44 Dibromomethane	93	5.553	5.553	(1.119)	48705	17.6203	17.62
	45 4-Methyl-2-Pentanone	43	6.326	6.322	(0.825)	130272	34.1770	34.17
	46 cis-1,3-Dichloropropene	75	6.157	6.153	(1.240)	131016	17.9066	17.90
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	590067	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	763285	51.1647	51.16
	50 Toluene	91	6.446	6.446	(0.841)	357327	20.6276	20.62
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	108354	17.7001	17.70
	52 2-Hexanone	43	7.087	7.083	(0.924)	85452	33.5620	33.56
	53 1,1,2-Trichloroethane	83	6.835	6.836	(0.891)	62526	18.5273	18.52
	54 1,3-Dichloropropane	76	6.982	6.978	(0.911)	127923	18.7471	18.74
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	91400	19.1098	19.10
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	81879	22.9853	22.98
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	80032	18.5534	18.55
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	77975	19.6609	19.66
	59 Chlorobenzene	112	7.694	7.690	(1.003)	240473	20.2879	20.28
	60 1,1,1,2-Tetrachloroethane	131	7.769	7.773	(1.013)	86565	19.5857	19.58
	61 Ethylbenzene	106	7.799	7.795	(1.017)	127017	20.7990	20.79
	62 m,p-Xylenes	106	7.904	7.900	(1.031)	325113	43.1701	43.17
	63 o-Xylene	106	8.241	8.238	(1.075)	153377	20.4101	20.41
	64 Styrene	104	8.260	8.256	(1.077)	253953	20.5164	20.51
	66 Bromoform	173	8.410	8.410	(1.097)	62490	18.7412	18.74
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	398328	21.4449	21.44

	68	1,1,2,2-Tetrachloroethane	83	8.837	8.837 (0.915)	103061	18.3121	18.31
$	69	4-Bromofluorobenzene	95	8.687	8.687 (1.133)	271576	47.1103	47.11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	320069	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.860	(0.917)	76192	18.8796	18.87(M)
	73 n-Propylbenzene	91	8.908	8.909	(0.922)	465312	22.0923	22.09
	74 Bromobenzene	156	8.803	8.804	(0.911)	110583	21.1979	21.19
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	337356	21.8286	21.82
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	279444	20.8928	20.89
	77 4-Chlorotoluene	91	9.070	9.066	(0.939)	318802	21.3688	21.36
	78 tert-Butylbenzene	119	9.332	9.332	(0.966)	293952	22.8301	22.83
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	333045	21.3591	21.35
	81 sec-Butylbenzene	105	9.519	9.520	(0.985)	410815	22.6229	22.62
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	360489	22.6742	22.67
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	198253	21.3435	21.34
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	207443	20.8648	20.86
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	307360	22.6985	22.69
	88 1,2-Dichlorobenzene	146	9.992	9.988	(1.034)	192847	20.9243	20.92
	89 1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	17359	19.0624	19.06
	90 1,2,4-Trichlorobenzene	180	11.338	11.334	(1.173)	132468	20.6618	20.66
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	67059	23.3019	23.30
	92 Naphthalene	128	11.544	11.540	(1.195)	282186	19.5517	19.55
	93 1,2,3-Trichlorobenzene	180	11.742	11.739	(1.215)	122790	20.8140	20.81
M	94 1,2-Dichloroethylene (total)	96				190301	40.5308	40.53
M	95 Xylenes (total)	106				478490	63.5802	63.58
	141 Cyclohexane	56	4.125	4.121	(0.987)	125630	21.3782	21.37
	138 Freon TF	101	1.921	1.921	(0.459)	106778	33.5209	33.52
	147 Methylcyclohexane	55	5.381	5.381	(1.084)	198226	21.7478	21.74
	146 Methyl Acetate	43	2.240	2.236	(0.536)	40765	14.9397	14.93
	148 Tert-Butyl alcohol	59	2.431	2.431	(0.581)	134048	283.159	283.15
	149 Isopropyl Alcohol	45	2.101	2.097	(0.502)	69696	266.721	266.72

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Sample Info: HS230641821-02MS;HS230641821-02MS;3;;MS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062811.D
Inj Date : 28-JUN-2023 15:06
InstruID : voa6.i
LabSampID : HS23061821-02MS

Chloroethane (75-00-3)

BEFORE

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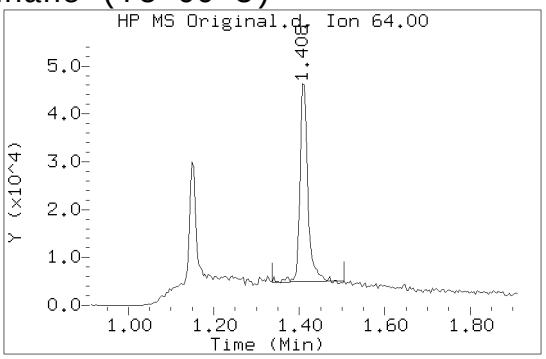
55119
HEIGHT
41379
06-Jul-2023
12:06
linh
pham



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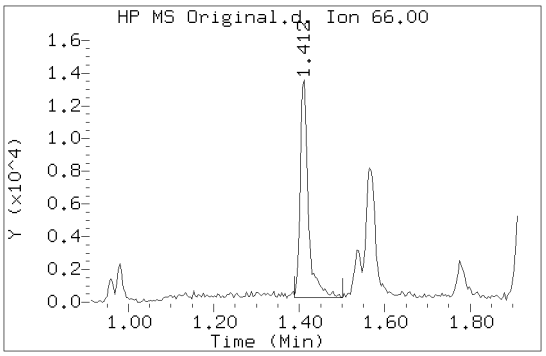

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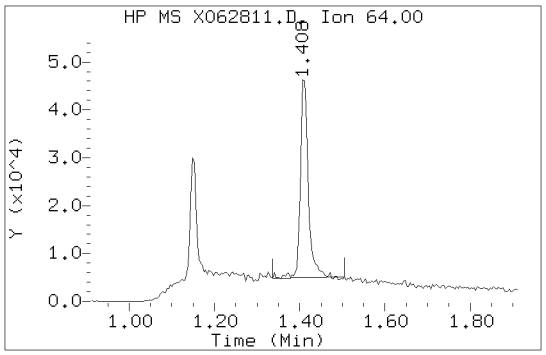

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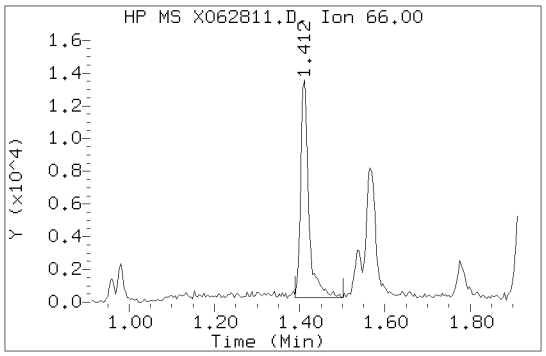

1,2,3-Trichloropropane (96-18-4)

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12:06
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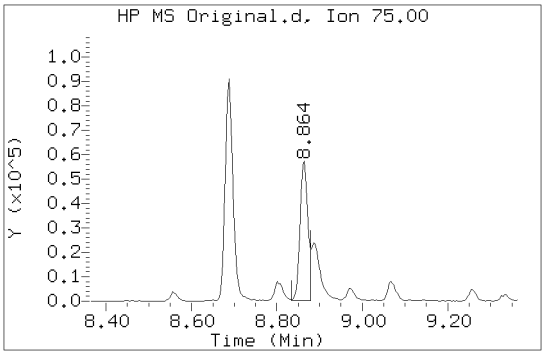

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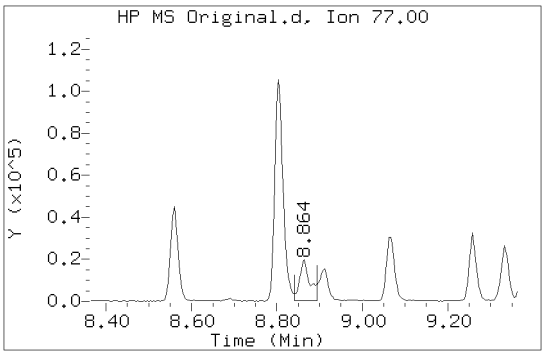

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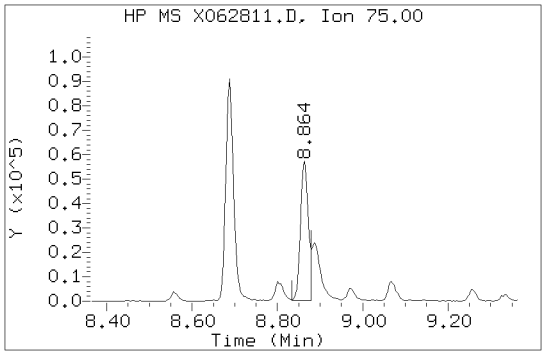

AFTER

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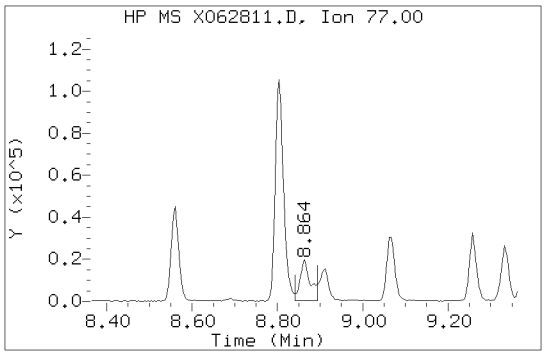

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Inj Date : 28-JUN-2023 15:06
InstruID : voa6.i
LabSampID : HS23061821-02MS

Chloroprene (126-99-8)

Reason Code:

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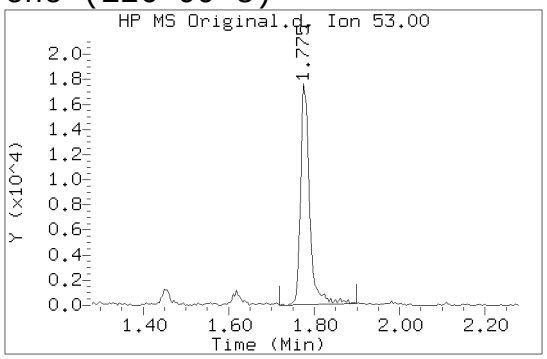
HEIGHT
17607
06-Jul-2023
12:06
linh
pham



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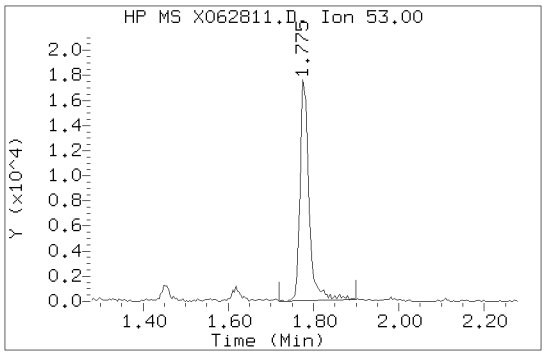

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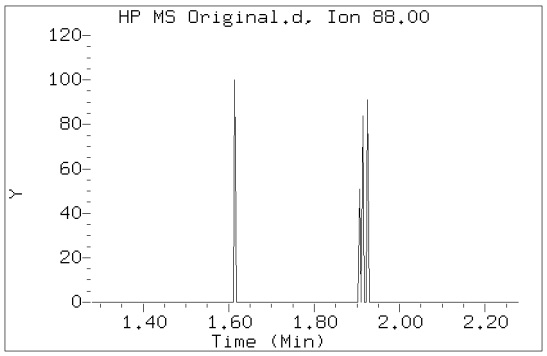

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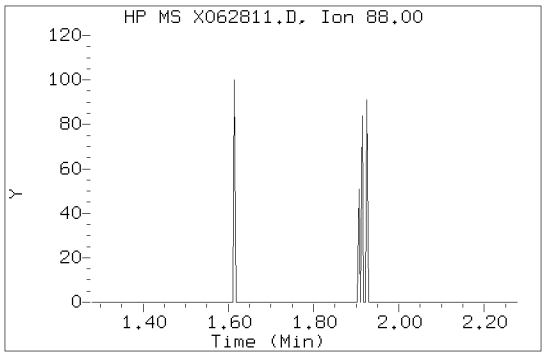

Acetaldehyde (75-07-0)

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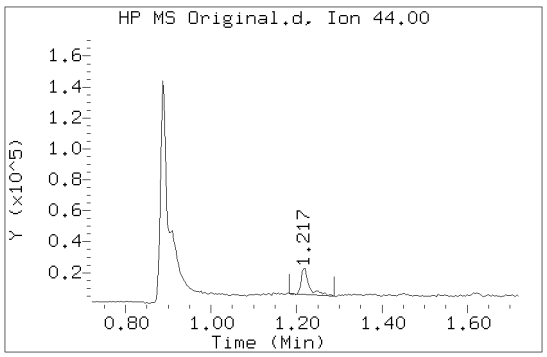

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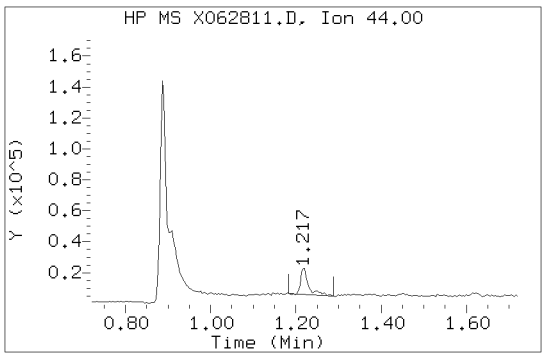

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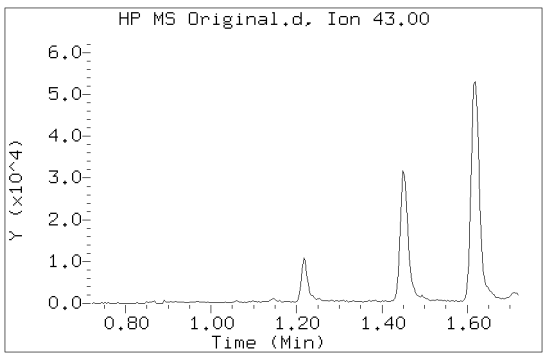

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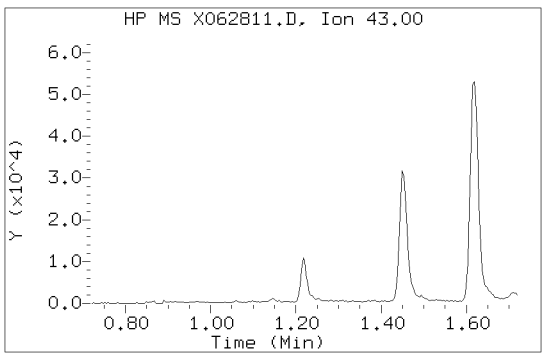

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InstruID : voa6.i
LabSampID : HS23061821-02MS

Acetaldehyde (75-07-0)

Reason Code:

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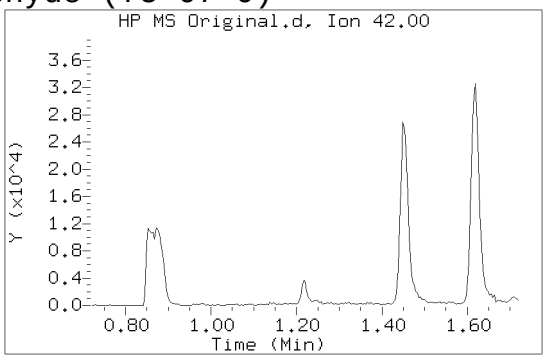

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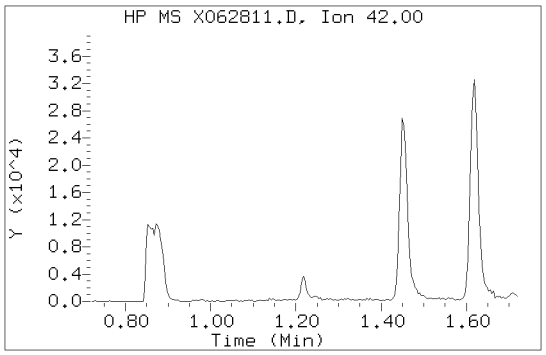

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Report Date: 06-Jul-2023 12:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062812.D
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Inj Date : 28-JUN-2023 15:27
Operator : PC Inst ID: voa6.i
Smp Info : HS23061821-02MSD;HS230611821-02MSD;3;;MSD
Misc Info : V6;WATER;0;1;
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Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 10 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.181	(1.000)	454651	50.0000	
135 1,4-Dioxane	88	5.606	5.595	(1.341)	18132	329.084	329.08(a)
140 1,3-Butadiene	54	1.171	1.171	(0.280)	62479	16.5828	16.58
25 Methacrylonitrile	41	3.829	3.825	(0.916)	58030	15.4690	15.46
12 Isobutyl Alcohol	43	4.676	4.676	(1.118)	180766	304.927	304.92
13 Acetonitrile	39	2.206	2.202	(0.528)	70819	160.594	160.59
14 Allyl Chloride	41	2.206	2.202	(0.528)	161953	16.2431	16.24
4 Propionitrile	54	3.656	3.653	(0.875)	91563	166.524	166.52(a)
72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	22407	15.8628	15.86
194 Acetaldehyde	44	1.220	1.216	(0.292)	22940	94.0819	94.08(M)
23 Chloroprene	53	1.778	1.775	(0.425)	24698	16.3440	16.34(M)
130 Ethyl Acetate	43	3.660	3.657	(0.875)	68648	14.8125	14.81
40 Methyl Methacrylate	41	5.609	5.606	(1.342)	55290	15.7090	15.70
49 Ethyl Methacrylate	69	6.708	6.708	(1.351)	76589	16.7049	16.70
131 Methyl Acrylate	55	3.698	3.690	(0.884)	64244	17.4468	17.44
136 n-Hexane	57	2.775	2.776	(0.664)	85830	21.1825	21.18
139 Diethyl ether	59	1.763	1.764	(0.422)	48437	17.0052	17.00
156 Diisopropyl ether	45	3.004	3.001	(0.719)	214121	15.9686	15.96
166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	346343	22.1989	22.19
2 Dichlorodifluoromethane	85	0.980	0.980	(0.234)	59328	15.3844	15.38

3 Chloromethane	50	1.085	1.085 (0.260)	82865	17.9148	17.91
5 Vinyl Chloride	62	1.149	1.149 (0.275)	77780	16.2897	16.28

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062812.D Page 2
Report Date: 06-Jul-2023 12:07

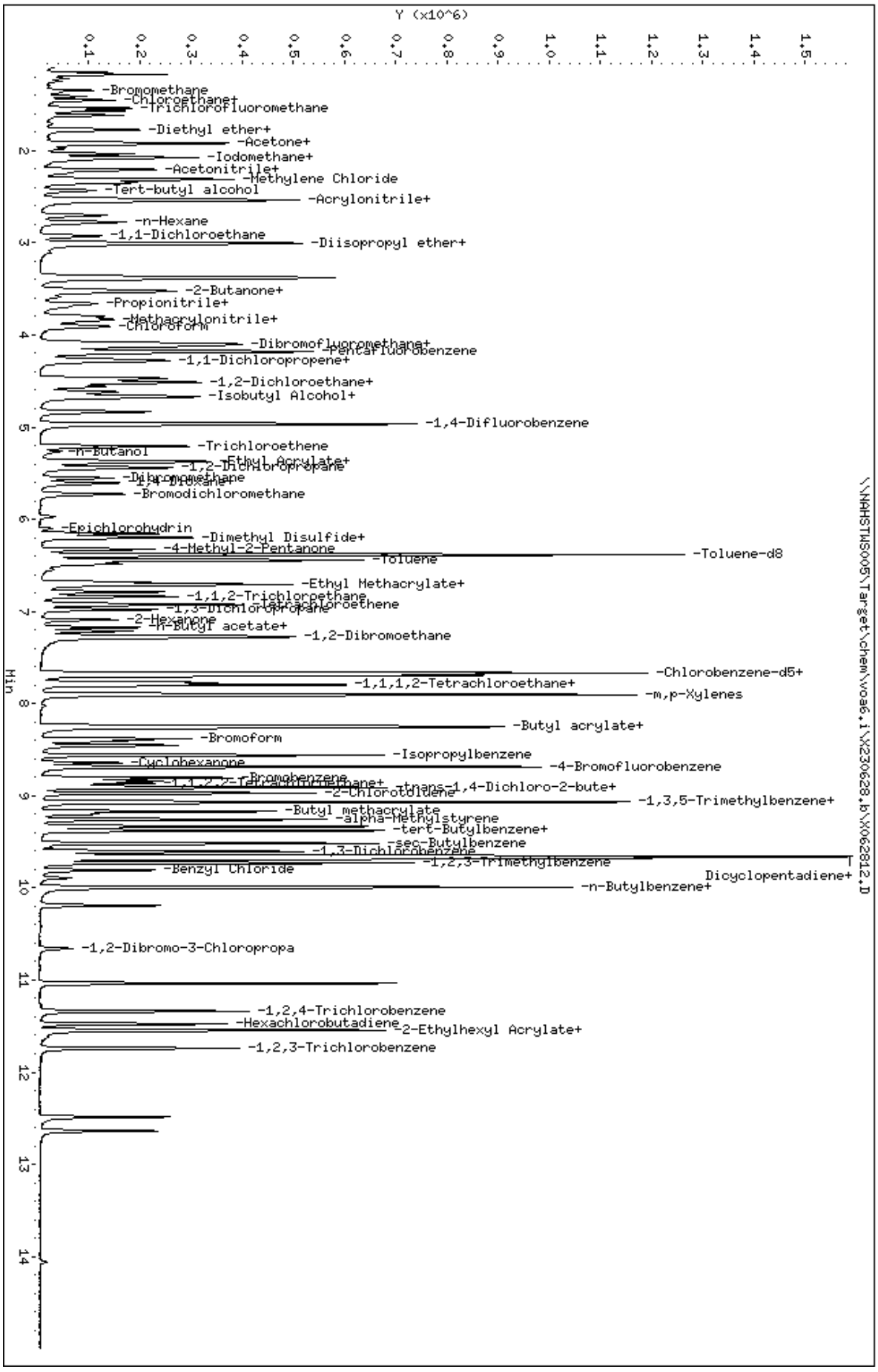
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
6	Bromomethane	94	1.347	1.344	(0.322)	42280	15.4261	15.42
7	Chloroethane	64	1.411	1.407	(0.338)	58302	19.9755	19.97
8	Trichlorofluoromethane	101	1.568	1.565	(0.375)	95422	16.8171	16.81
9	Acrolein	56	1.452	1.452	(0.347)	10411	36.9031	36.90
10	Acetone	43	1.981	1.977	(0.474)	30491	25.5175	25.51
11	1,1-Dichloroethene	96	1.921	1.917	(0.459)	60065	16.8747	16.87
15	Iodomethane	142	2.033	2.034	(0.486)	179271	32.2285	32.22
16	Acrylonitrile	53	2.543	2.536	(0.608)	48581	33.6631	33.66
17	Methylene Chloride	84	2.311	2.307	(0.553)	84421	16.7907	16.79
18	Methyl tert-butyl ether	73	2.539	2.540	(0.607)	202302	16.2840	16.28
19	Carbon Disulfide	76	2.074	2.075	(0.496)	369599	29.1614	29.16
20	trans-1,2-Dichloroethene	96	2.536	2.532	(0.606)	71193	16.7150	16.71
21	Vinyl Acetate	43	3.004	3.001	(0.719)	337376	29.6776	29.67
22	1,1-Dichloroethane	63	2.925	2.922	(0.700)	123859	16.1425	16.14
24	2-Butanone	43	3.589	3.578	(0.858)	37484	25.0522	25.05
26	2,2-Dichloropropane	77	3.514	3.510	(0.840)	102255	16.8848	16.88
27	cis-1,2-Dichloroethene	96	3.529	3.529	(0.844)	105362	21.4514	21.45
28	Chloroform	83	3.911	3.908	(0.935)	126590	15.3286	15.32
29	Bromochloromethane	128	3.795	3.795	(0.908)	43595	16.6565	16.65
$ 30	Dibromofluoromethane	113	4.102	4.099	(0.981)	182381	44.8819	44.88
31	1,1,1-Trichloroethane	97	4.080	4.084	(0.976)	110691	16.5835	16.58
32	1,1-Dichloropropene	75	4.282	4.279	(0.863)	97882	18.2619	18.26
33	1,2-Dichloroethane	62	4.556	4.556	(0.918)	98442	18.3292	18.32
34	Carbon Tetrachloride	117	4.264	4.264	(0.859)	98834	19.1733	19.17
$ 35	1,2-Dichloroethane-d4	65	4.474	4.474	(1.070)	179225	40.7355	40.73
* 36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	639658	50.0000	
37	Benzene	78	4.515	4.511	(0.909)	296480	18.0190	18.01
38	Trichloroethene	130	5.208	5.209	(1.049)	105294	23.2099	23.20
39	Bromodichloromethane	83	5.726	5.726	(1.153)	97443	16.7420	16.74
42	1,2-Dichloropropane	63	5.433	5.434	(1.094)	75344	17.4456	17.44
44	Dibromomethane	93	5.553	5.553	(1.119)	48006	17.7071	17.70
45	4-Methyl-2-Pentanone	43	6.325	6.322	(0.825)	126092	33.6342	33.63
46	cis-1,3-Dichloropropene	75	6.157	6.153	(1.240)	125063	17.4272	17.42
* 47	Chlorobenzene-d5	117	7.667	7.668	(1.000)	580351	50.0000	
$ 48	Toluene-d8	98	6.385	6.386	(0.833)	746245	50.8599	50.85
50	Toluene	91	6.445	6.446	(0.841)	335906	19.7156	19.71
51	trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	103617	17.2573	17.25
52	2-Hexanone	43	7.086	7.083	(0.924)	82189	32.8209	32.82
53	1,1,2-Trichloroethane	83	6.839	6.836	(0.892)	60394	18.1952	18.19
54	1,3-Dichloropropane	76	6.981	6.978	(0.911)	120822	18.0029	18.00
55	Dibromochloromethane	129	7.173	7.173	(0.935)	88102	18.7287	18.72
56	Tetrachloroethene	164	6.925	6.925	(0.903)	75494	21.5477	21.54
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	76183	17.9567	17.95
58	1-Chlorohexane	55	7.694	7.694	(1.550)	73692	18.9444	18.94
59	Chlorobenzene	112	7.694	7.690	(1.003)	228802	19.6264	19.62
60	1,1,1,2-Tetrachloroethane	131	7.772	7.773	(1.014)	82536	18.9868	18.98
61	Ethylbenzene	106	7.799	7.795	(1.017)	118871	19.7910	19.79
62	m,p-Xylenes	106	7.904	7.900	(1.031)	302705	40.8675	40.86
63	o-Xylene	106	8.241	8.238	(1.075)	146876	19.8723	19.87
64	Styrene	104	8.260	8.256	(1.077)	244598	20.0915	20.09
66	Bromoform	173	8.410	8.410	(1.097)	60341	18.3997	18.39
67	Isopropylbenzene	105	8.560	8.560	(1.116)	374833	20.5178	20.51

	68	1,1,2,2-Tetrachloroethane	83	8.837	8.837 (0.915)	97305	16.8596	16.85
$	69	4-Bromofluorobenzene	95	8.687	8.687 (1.133)	268552	47.3685	47.36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	328228	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.860	(0.917)	70321	16.9917	16.99
	73 n-Propylbenzene	91	8.912	8.909	(0.922)	441597	20.4452	20.44
	74 Bromobenzene	156	8.803	8.804	(0.911)	106625	19.9311	19.93
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	319129	20.1359	20.13
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	264269	19.2671	19.26
	77 4-Chlorotoluene	91	9.069	9.066	(0.939)	299389	19.5687	19.56
	78 tert-Butylbenzene	119	9.332	9.332	(0.966)	277489	21.0157	21.01
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	317885	19.8801	19.88
	81 sec-Butylbenzene	105	9.519	9.520	(0.985)	392037	21.0521	21.05
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	343727	21.0825	21.08
	83 1,3-Dichlorobenzene	146	9.605	9.602	(0.994)	192015	20.1581	20.15
	84 1,4-Dichlorobenzene	146	9.680	9.681	(1.002)	202273	19.8391	19.83
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	294524	21.2099	21.20
	88 1,2-Dichlorobenzene	146	9.992	9.988	(1.034)	184511	19.5222	19.52
	89 1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	17028	18.2455	18.24
	90 1,2,4-Trichlorobenzene	180	11.337	11.334	(1.173)	131437	19.9914	19.99
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	63330	21.4591	21.45
	92 Naphthalene	128	11.544	11.540	(1.195)	275147	18.5902	18.59
	93 1,2,3-Trichlorobenzene	180	11.742	11.739	(1.215)	119200	19.7032	19.70
M	94 1,2-Dichloroethylene (total)	96				176555	38.1664	38.16
M	95 Xylenes (total)	106				449581	60.7398	60.73
	141 Cyclohexane	56	4.125	4.121	(0.987)	117376	20.2528	20.25
	138 Freon TF	101	1.921	1.921	(0.459)	77923	24.8936	24.89
	147 Methylcyclohexane	55	5.385	5.381	(1.085)	188953	21.1358	21.13
	146 Methyl Acetate	43	2.239	2.236	(0.536)	38147	14.1756	14.17
	148 Tert-Butyl alcohol	59	2.434	2.431	(0.582)	125935	269.740	269.73
	149 Isopropyl Alcohol	45	2.101	2.097	(0.502)	66870	259.483	259.48

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Inj Date : 28-JUN-2023 15:27
InstruID : voa6.i
LabSampID : HS23061821-02MSD

Chloroprene (126-99-8)

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06-Jul-2023
12:06
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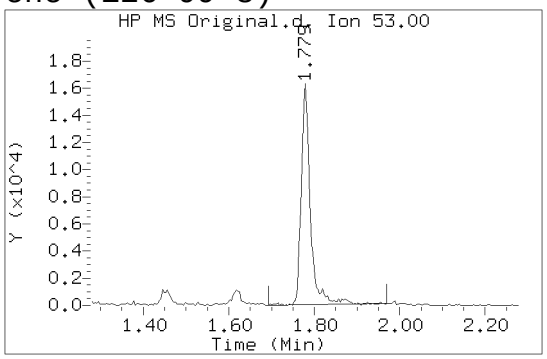

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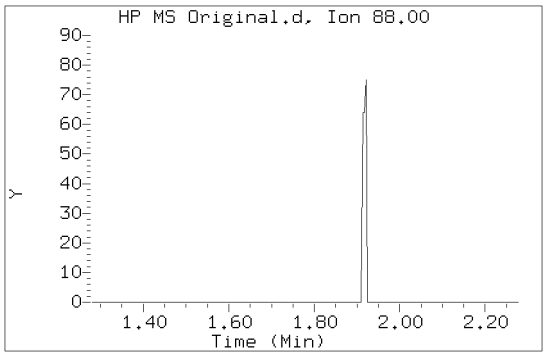

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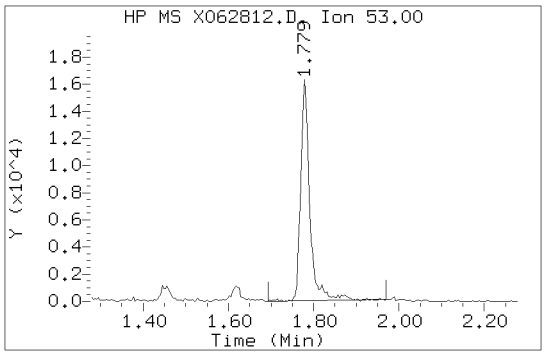

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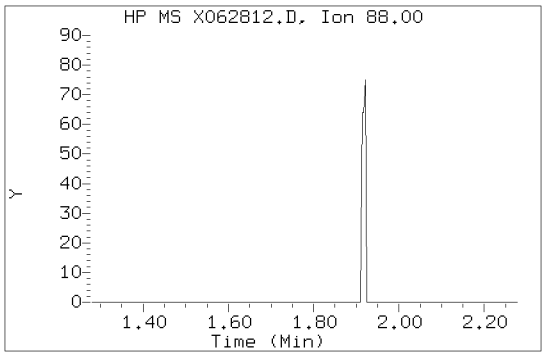

Acetaldehyde (75-07-0)

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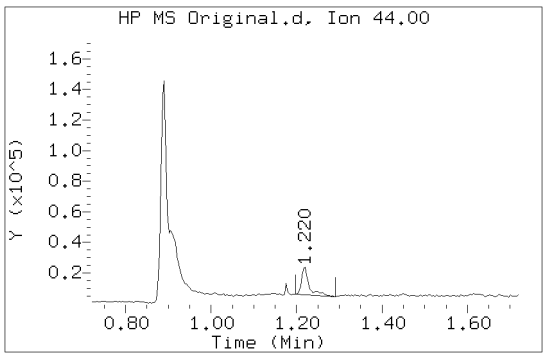

BEFORE

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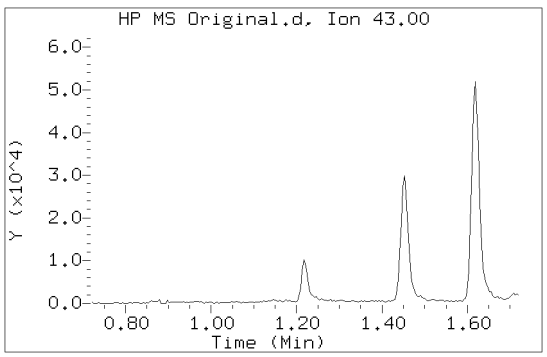

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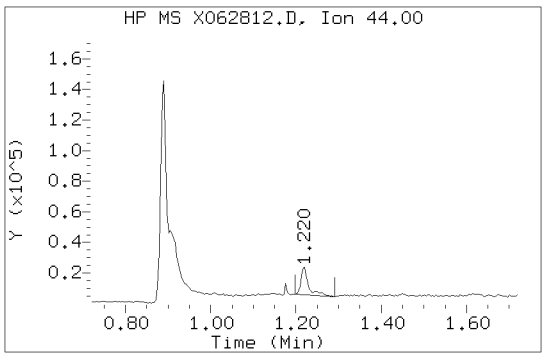

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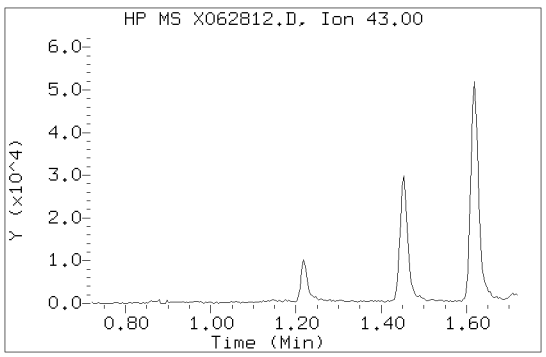

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InstruID : voa6.i
LabSampID : HS23061821-02MSD

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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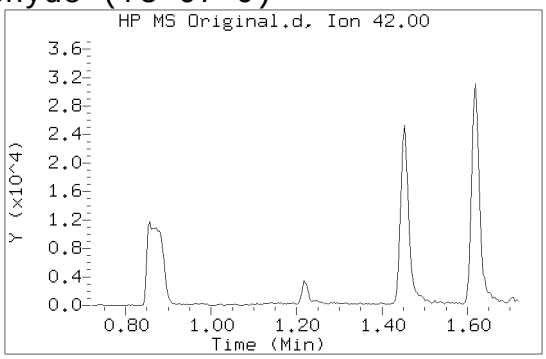
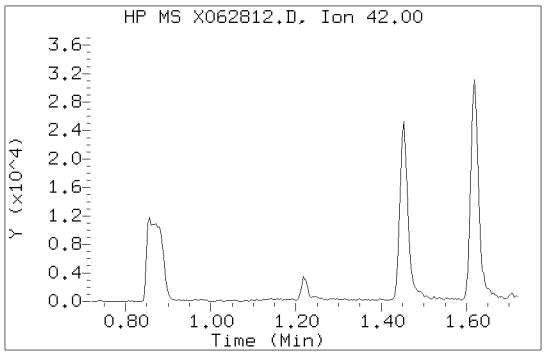
06-Jul-2023
12:06
linh
pham



AFTER

MASS
42
AREA
0
HEIGHT
0
06-Jul-2023
12:06
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062815.D Page 1
Report Date: 06-Jul-2023 12:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062815.D
Lab Smp Id: HS23061812-08 Client Smp ID: HS230611812-08
Inj Date : 28-JUN-2023 16:30
Operator : PC Inst ID: voa6.i
Smp Info : HS23061812-08;HS230611812-08;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\8260W.m
Meth Date : 06-Jul-2023 12:06 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.181	(1.000)	475711	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.099	(0.981)	192292	45.2286	45.22
$ 35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.070)	193973	42.1653	42.16
* 36 1,4-Difluorobenzene	114	4.968	4.965	(1.000)	662234	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	593384	50.0000	
$ 48 Toluene-d8	98	6.385	6.386	(0.833)	778917	51.9207	51.92
$ 69 4-Bromofluorobenzene	95	8.691	8.687	(1.133)	273238	47.1339	47.13
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	318469	50.0000	
138 Freon TF	101	1.921	1.921	(0.459)	3950	1.22732	1.22(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01202798

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062815.D

Date : 28-JUN-2023 16:30

Client ID: HS230611812-08

Instrument: voa6.i

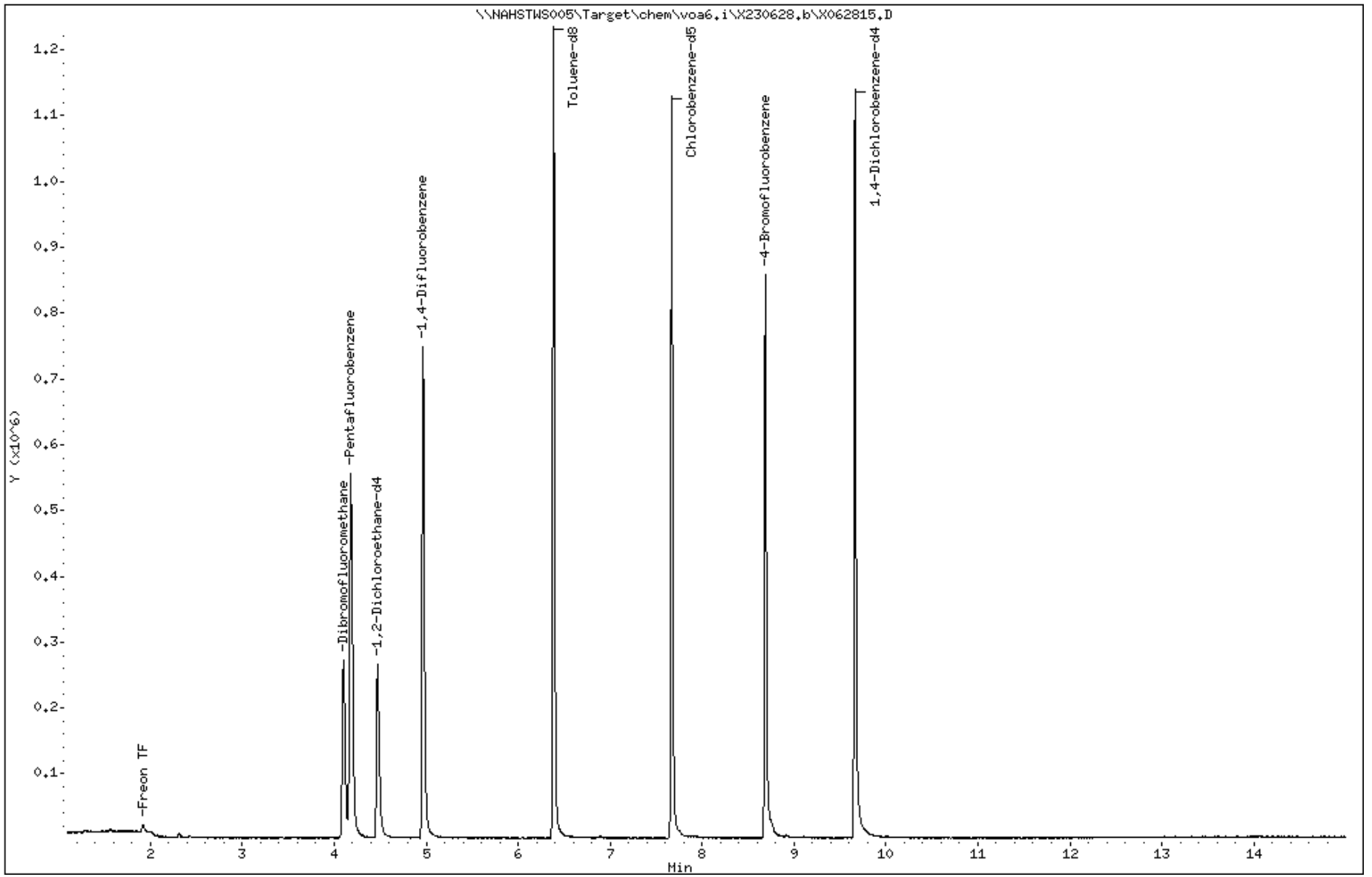
Sample Info: HS23061812-08;HS230611812-08;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062815.D

Date : 28-JUN-2023 16:30

Client ID: HS230611812-08

Instrument: voa6.i

Sample Info: HS23061812-08;HS230611812-08;;;

Purge Volume: 5.0

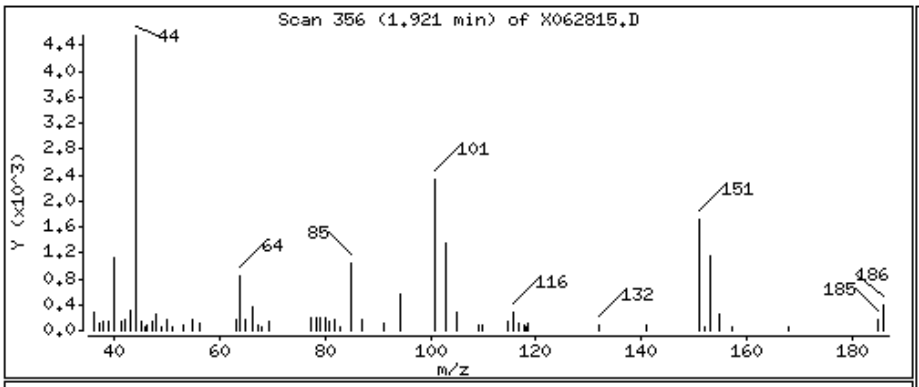
Operator: PC

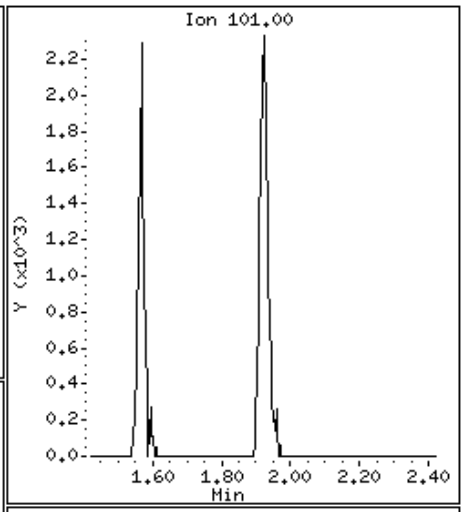
Column phase: DB624

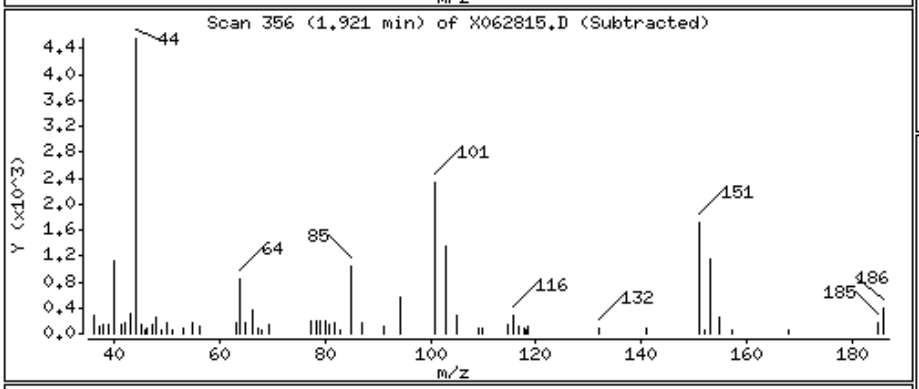
Column diameter: 0.18

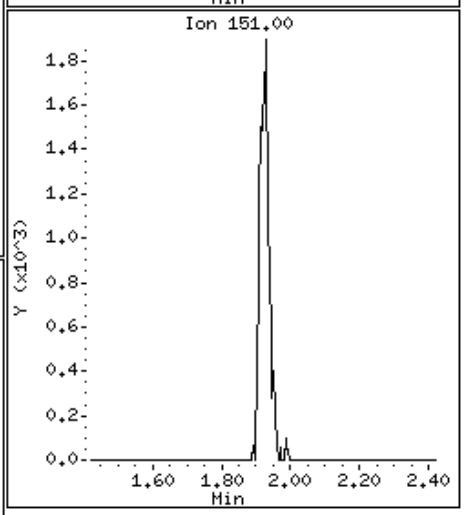
138 Freon TF

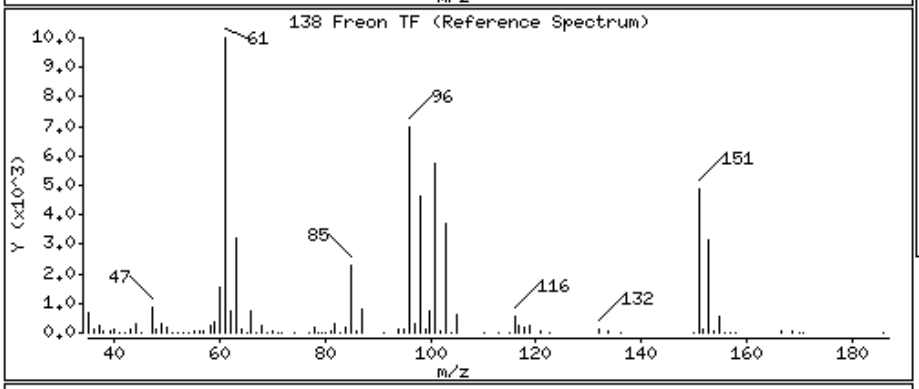
Concentration: 1.22 ug/l

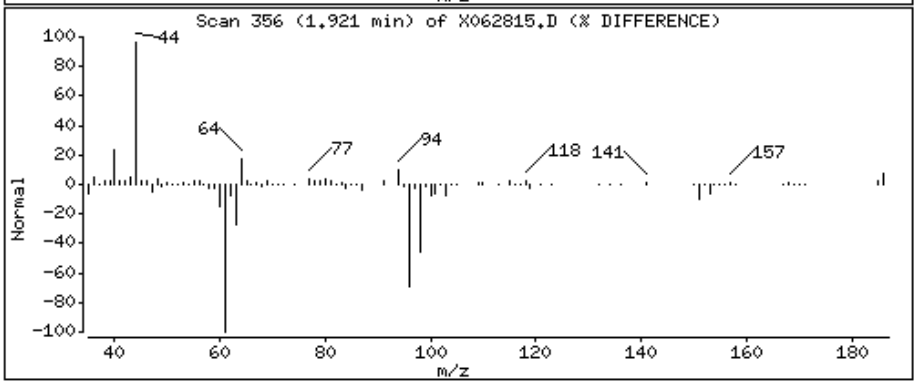












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062815.D
Inj Date : 28-JUN-2023 16:30
InstruID : voa6.i
LabSampID : HS23061812-08

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062816.D Page 1
Report Date: 06-Jul-2023 12:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062816.D
Lab Smp Id: HS23061812-02 Client Smp ID: HS230611812-02
Inj Date : 28-JUN-2023 16:51
Operator : PC Inst ID: voa6.i
Smp Info : HS23061812-02;HS230611812-02;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\8260W.m
Meth Date : 06-Jul-2023 12:06 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.181	(1.000)	444202	50.0000	
$ 30 Dibromofluoromethane	113	4.102	4.099	(0.981)	178942	45.0729	45.07
$ 35 1,2-Dichloroethane-d4	65	4.470	4.474	(1.069)	178504	41.5427	41.54(M)
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	617186	50.0000	
38 Trichloroethene	130	5.212	5.209	(1.050)	28506	6.51234	6.51
* 47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	566270	50.0000	
$ 48 Toluene-d8	98	6.385	6.386	(0.833)	736800	51.4649	51.46
$ 69 4-Bromofluorobenzene	95	8.691	8.687	(1.133)	263555	47.6462	47.64
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	306960	50.0000	
138 Freon TF	101	1.921	1.921	(0.459)	27030	8.90140	8.90

QC Flag Legend

M - Compound response manually integrated.

01202802

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062816.D

Date : 28-JUN-2023 16:51

Client ID: HS230611812-02

Instrument: voa6.i

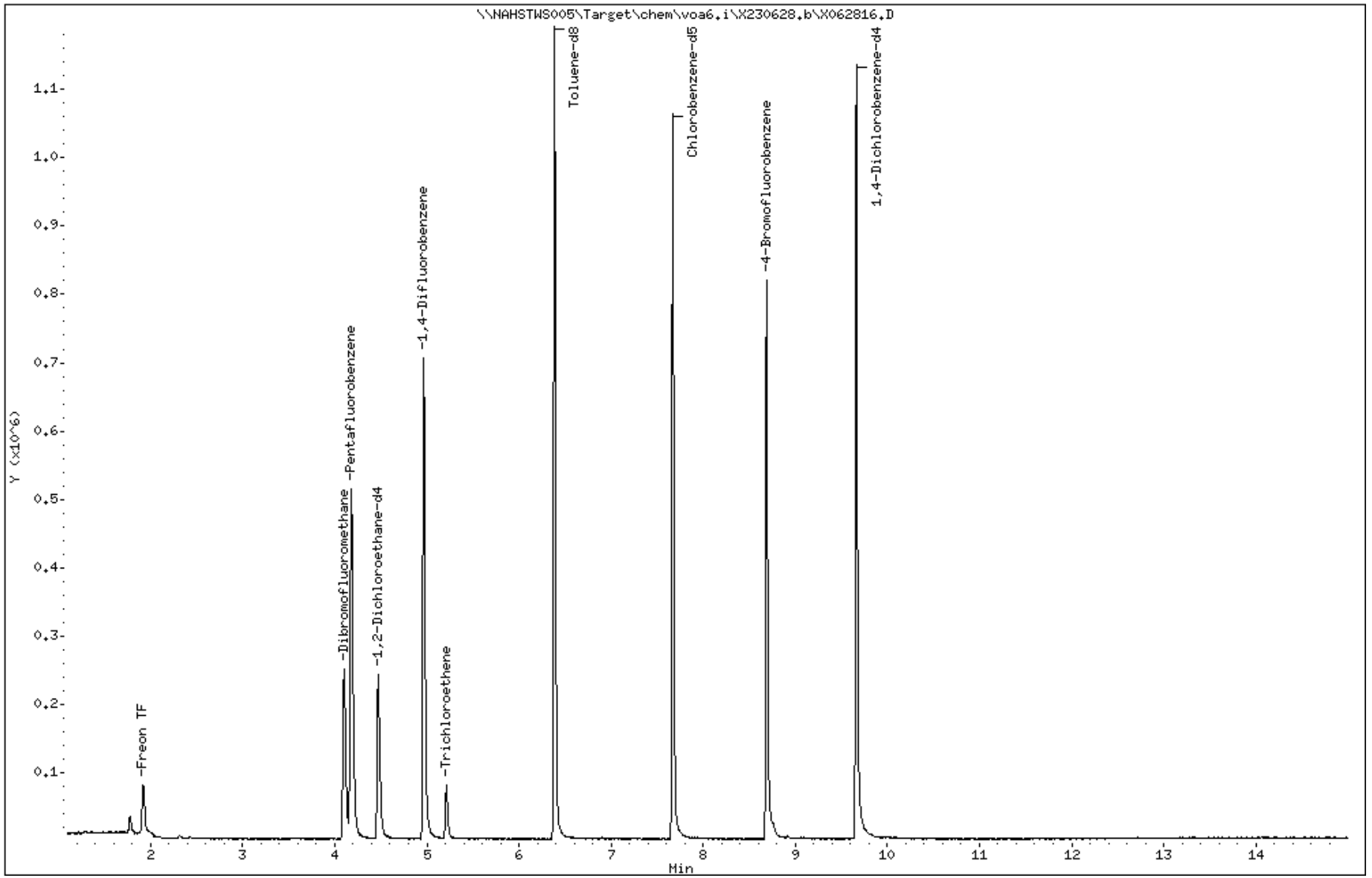
Sample Info: HS23061812-02;HS230611812-02;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062816.D

Date : 28-JUN-2023 16:51

Client ID: HS230611812-02

Instrument: voa6.i

Sample Info: HS23061812-02;HS230611812-02;;;

Purge Volume: 5.0

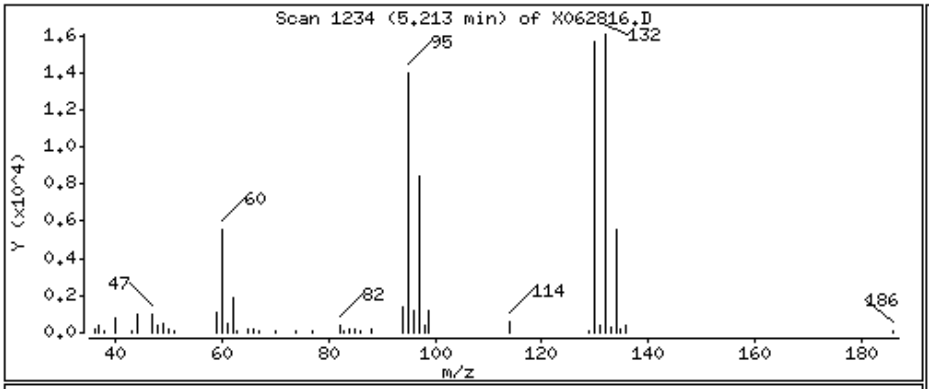
Operator: PC

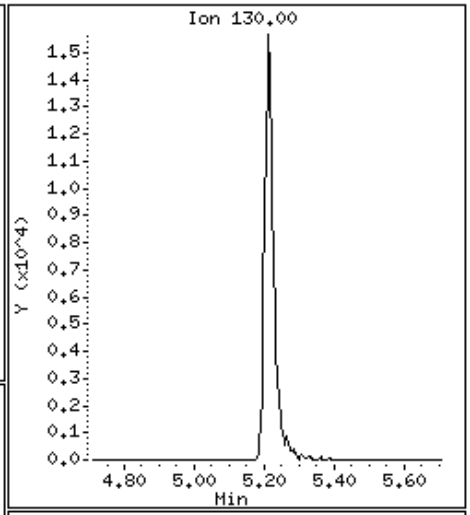
Column phase: DB624

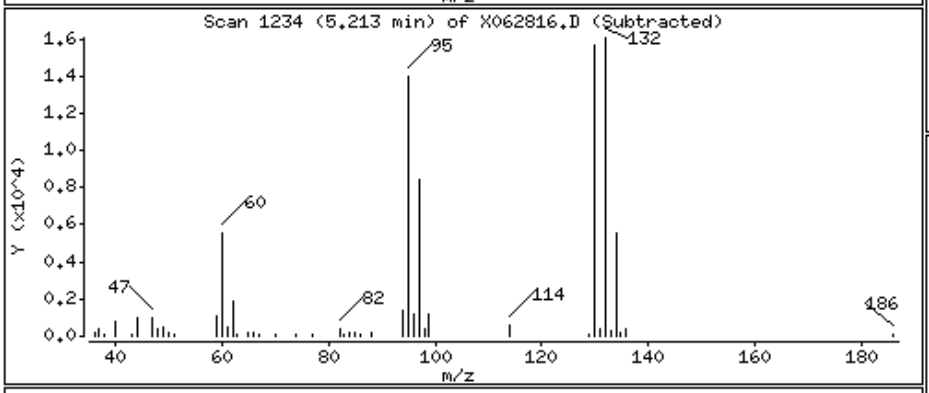
Column diameter: 0.18

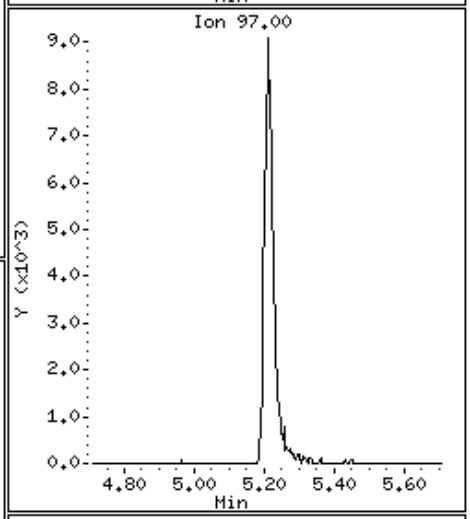
38 Trichloroethene

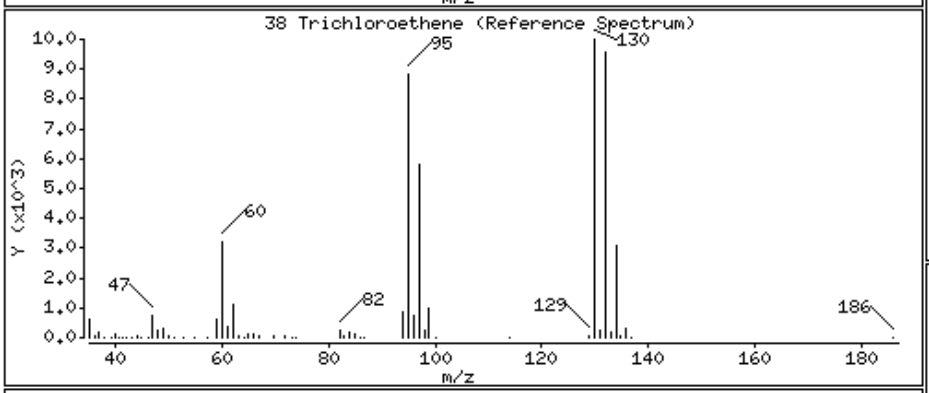
Concentration: 6.51 ug/l

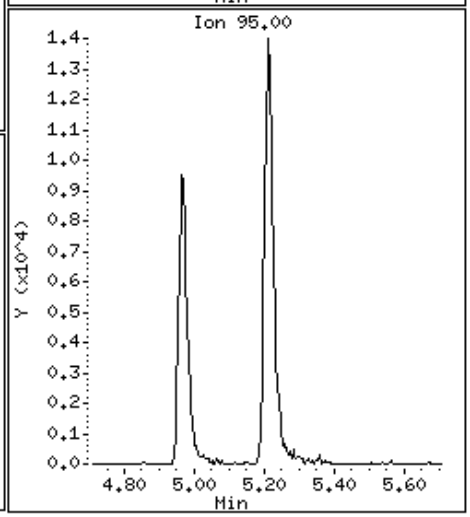


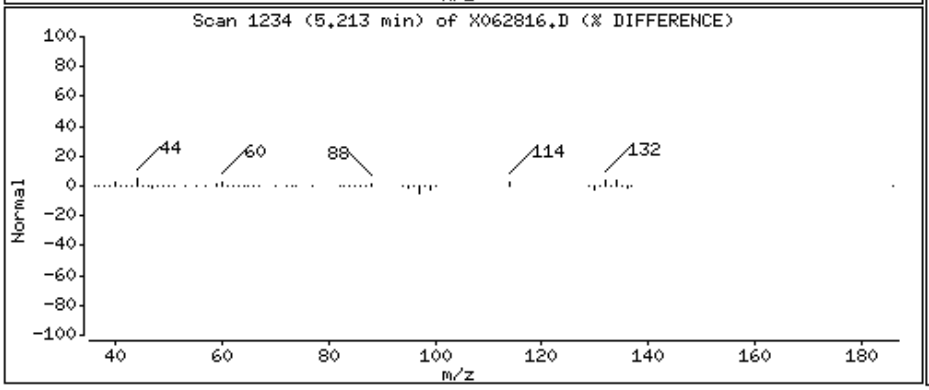












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062816.D

Date : 28-JUN-2023 16:51

Client ID: HS230611812-02

Instrument: voa6.i

Sample Info: HS23061812-02;HS230611812-02;;;

Purge Volume: 5.0

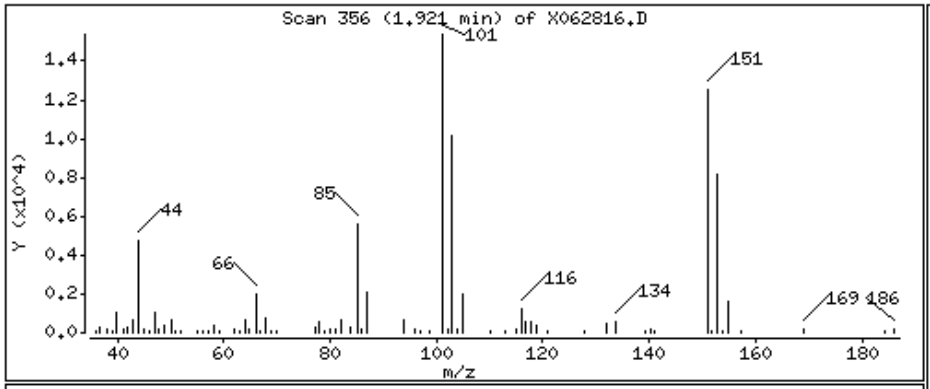
Operator: PC

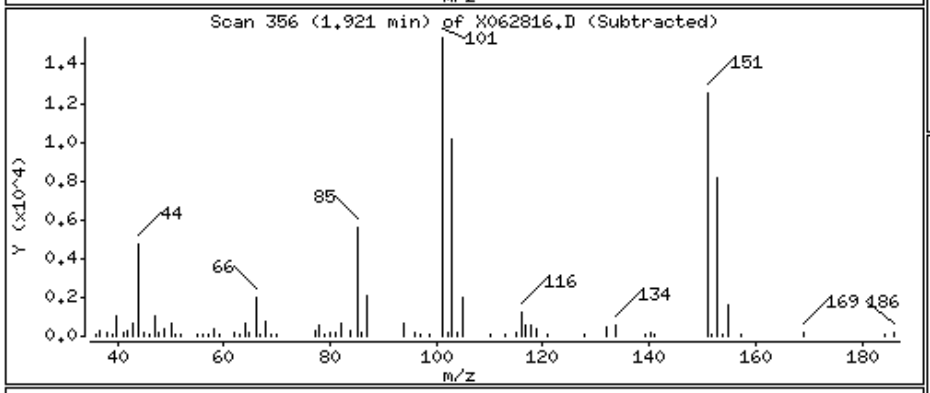
Column phase: DB624

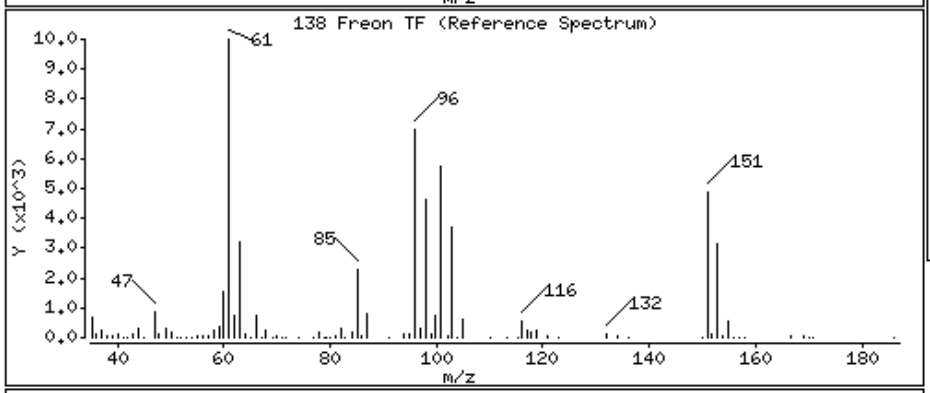
Column diameter: 0.18

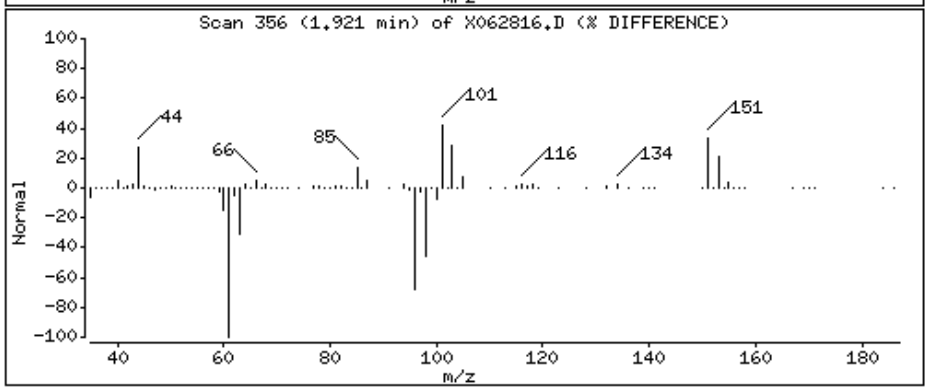
138 Freon TF

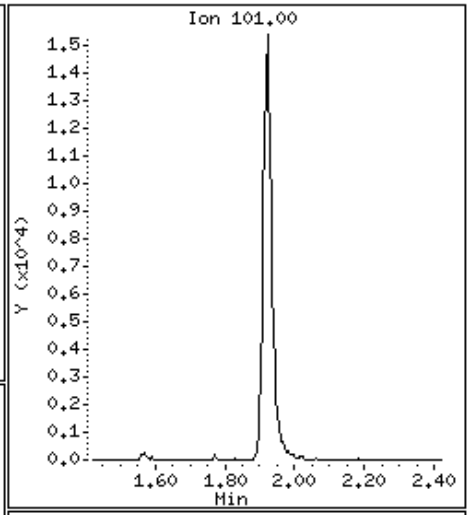
Concentration: 8.90 ug/l

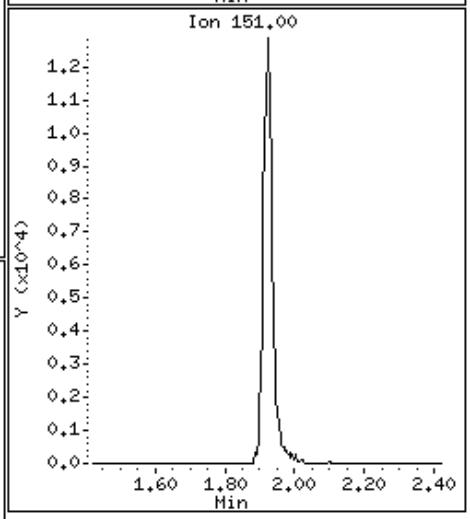












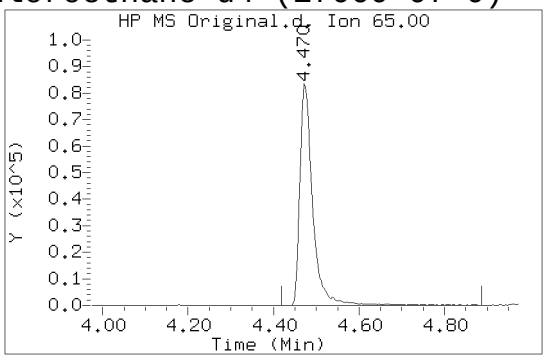
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062816.D
Inj Date : 28-JUN-2023 16:51
InstruID : voa6.i
LabSampID : HS23061812-02

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

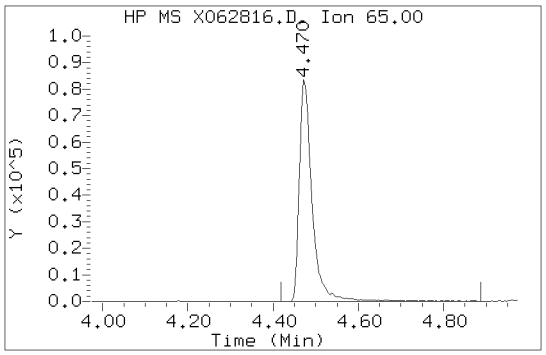
BEFORE

MASS
65
AREA
178504
HEIGHT
83512
06-Jul-2023
12:06
linh
pham



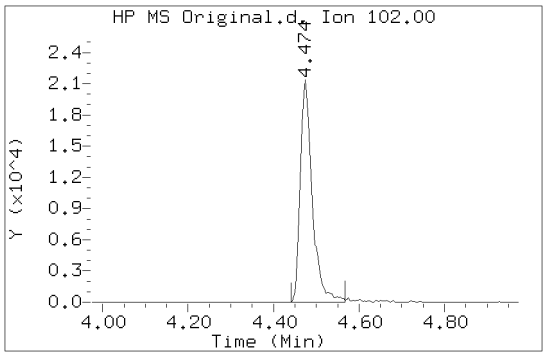
AFTER

MASS
65
AREA
178504
HEIGHT
83512
06-Jul-2023
12:06
linh
pham



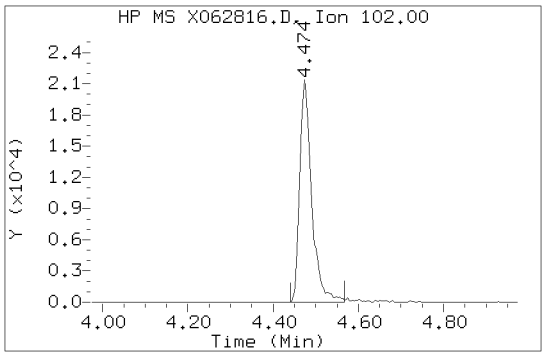
BEFORE

MASS
102
AREA
42752
HEIGHT
21368
06-Jul-2023
12:06
linh
pham



AFTER

MASS
102
AREA
42752
HEIGHT
21368
06-Jul-2023
12:06
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062824.D Page 1
Report Date: 06-Jul-2023 12:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062824.D
Lab Smp Id: HS23061812-05 Client Smp ID: HS230611812-05
Inj Date : 28-JUN-2023 19:39
Operator : PC Inst ID: voa6.i
Smp Info : HS23061812-05;HS230611812-05;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\8260W.m
Meth Date : 06-Jul-2023 12:06 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
*	1 Pentafluorobenzene	168	4.181	4.181	(1.000)	444192	50.0000	
	5 Vinyl Chloride	62	1.152	1.149	(0.276)	4310	0.92391	0.92(a)
	22 1,1-Dichloroethane	63	2.929	2.922	(0.701)	10980	1.46471	1.46(a)
	27 cis-1,2-Dichloroethene	96	3.537	3.529	(0.846)	23605	4.91907	4.91(a)
$	30 Dibromofluoromethane	113	4.103	4.099	(0.981)	181709	45.7763	45.77
$	35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.070)	180642	42.0515	42.05
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	623183	50.0000	
	38 Trichloroethene	130	5.208	5.209	(1.049)	64432	14.5782	14.57
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	550514	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	724674	52.0666	52.06
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	250470	46.5645	46.56
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	281492	50.0000	
	83 1,3-Dichlorobenzene	146	9.617	9.602	(0.995)	5205	0.63715	0.63(a)
M	94 1,2-Dichloroethylene (total)	96				23605	4.91907	4.91(a)
	138 Freon TF	101	1.921	1.921	(0.459)	337081	106.446	106.44

QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ).

01202808

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062824.D

Page 1

Date : 28-JUN-2023 19:39

Client ID: HS230611812-05

Instrument: voa6.i

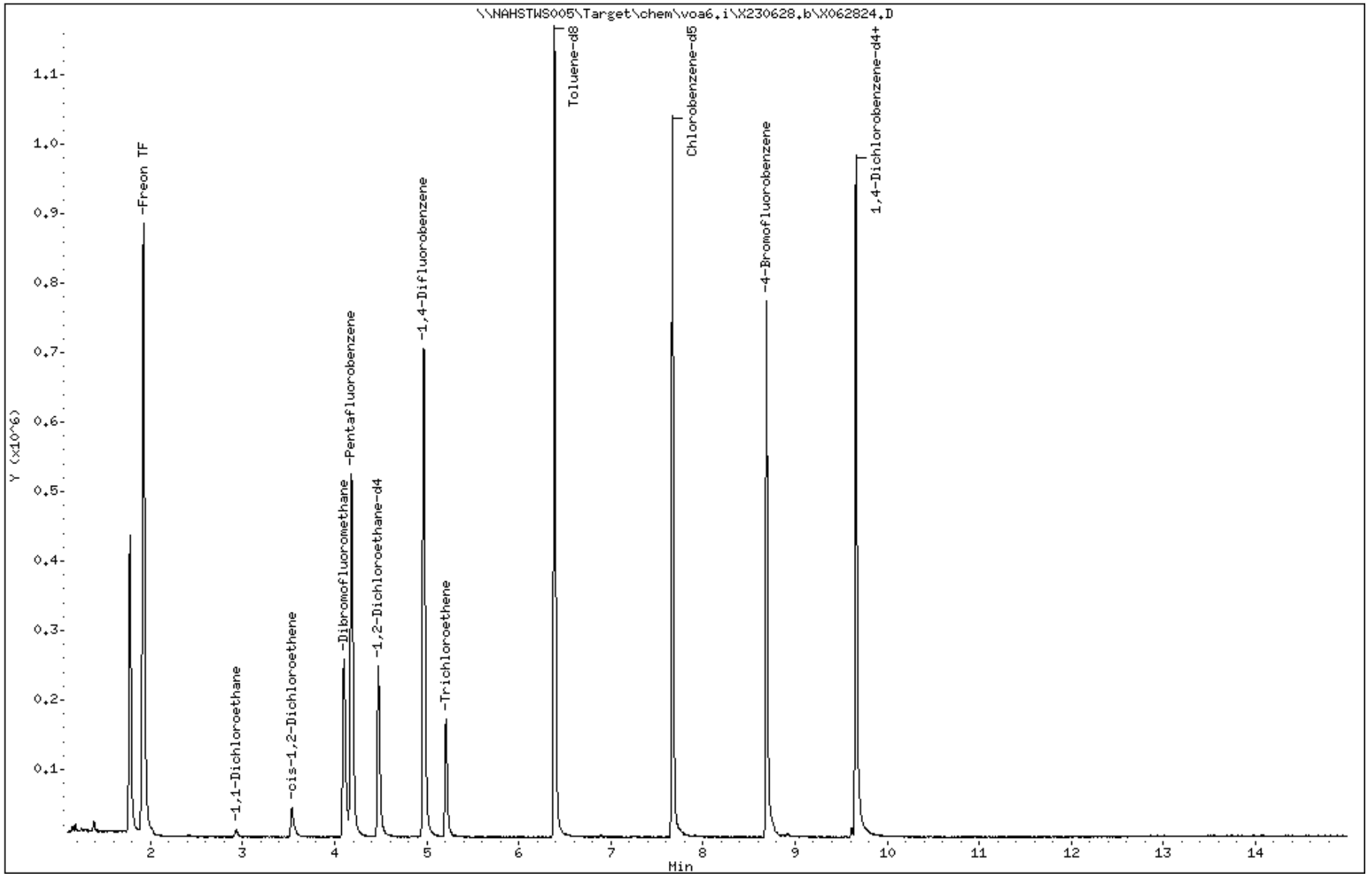
Sample Info: HS23061812-05;HS230611812-05;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062824.D

Date : 28-JUN-2023 19:39

Client ID: HS230611812-05

Instrument: voa6.i

Sample Info: HS23061812-05;HS230611812-05;;;

Purge Volume: 5.0

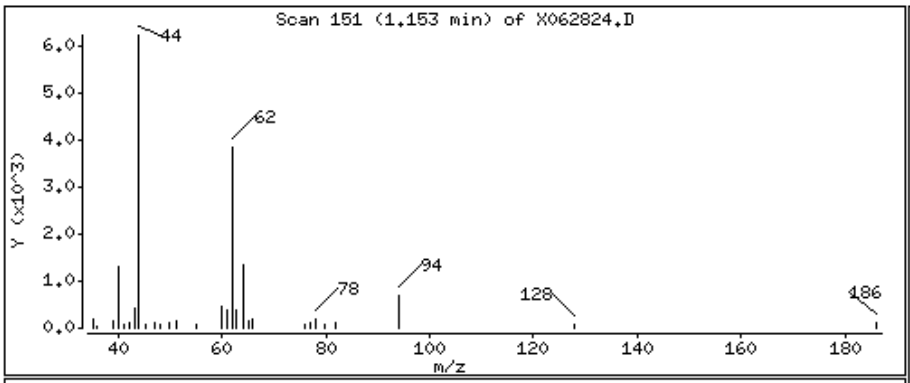
Operator: PC

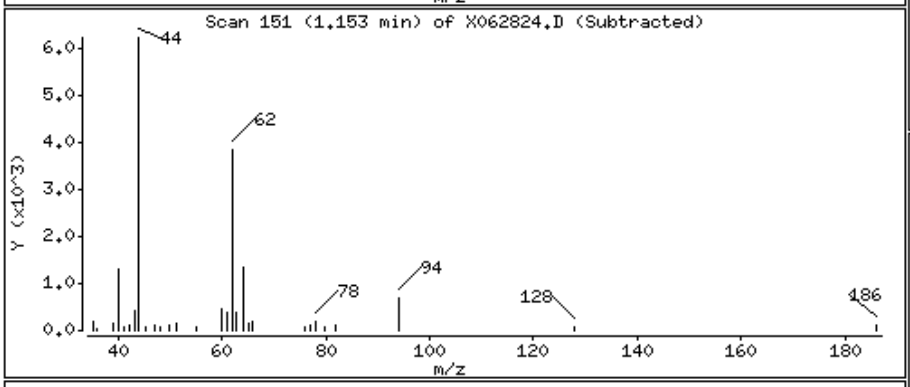
Column phase: DB624

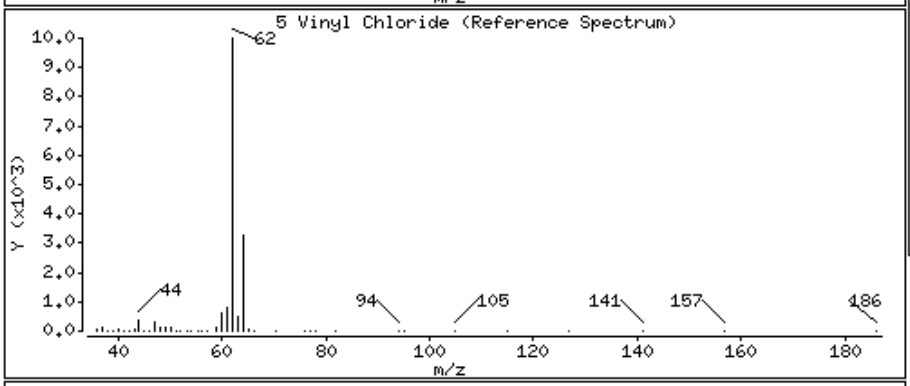
Column diameter: 0.18

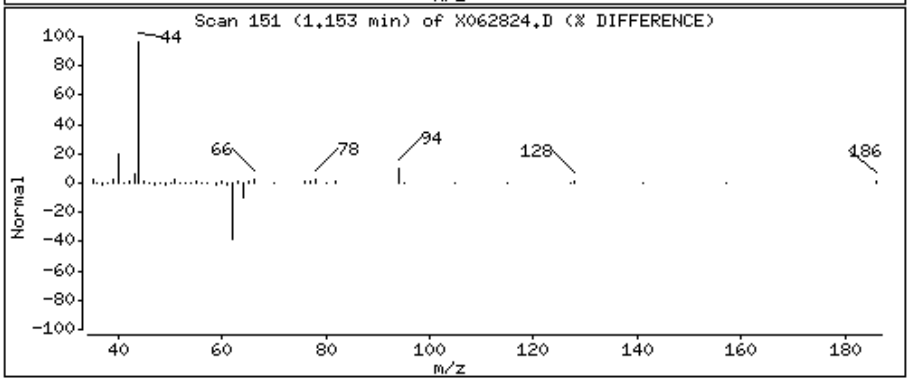
5 Vinyl Chloride

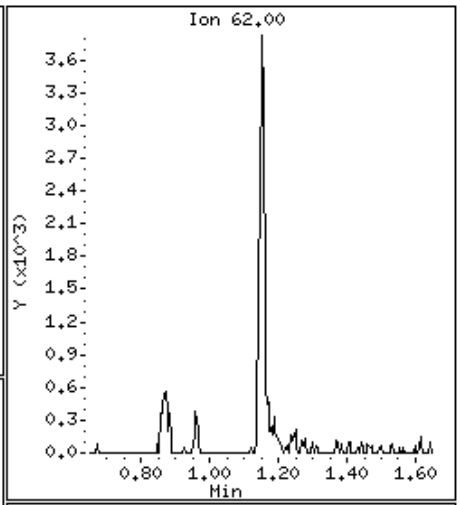
Concentration: 0.92 ug/l

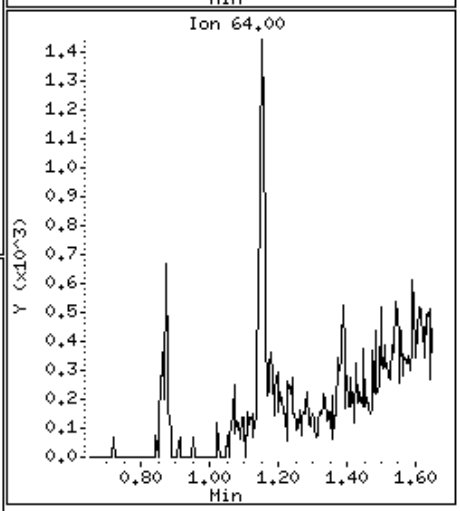












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062824.D Page 3

Date : 28-JUN-2023 19:39

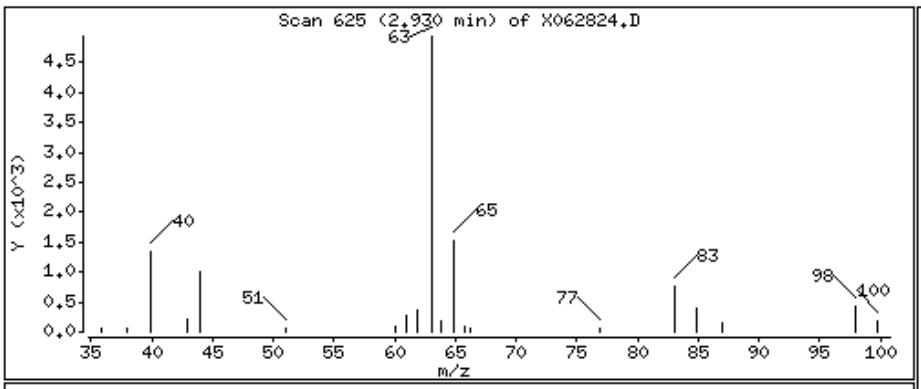
Client ID: HS230611812-05 Instrument: voa6.i

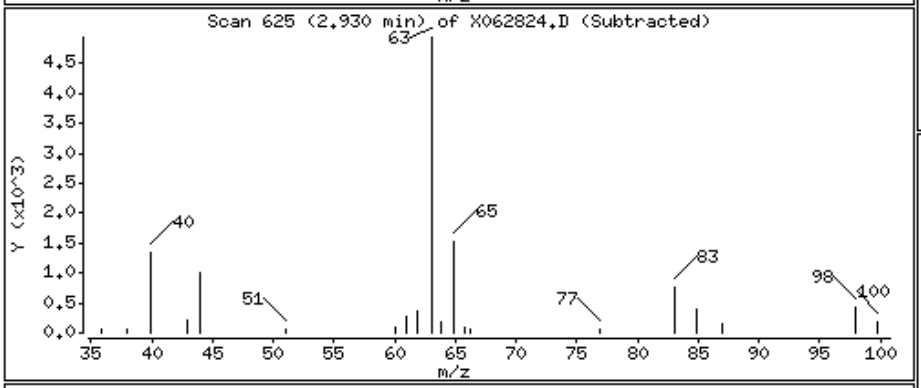
Sample Info: HS23061812-05;HS230611812-05;;;

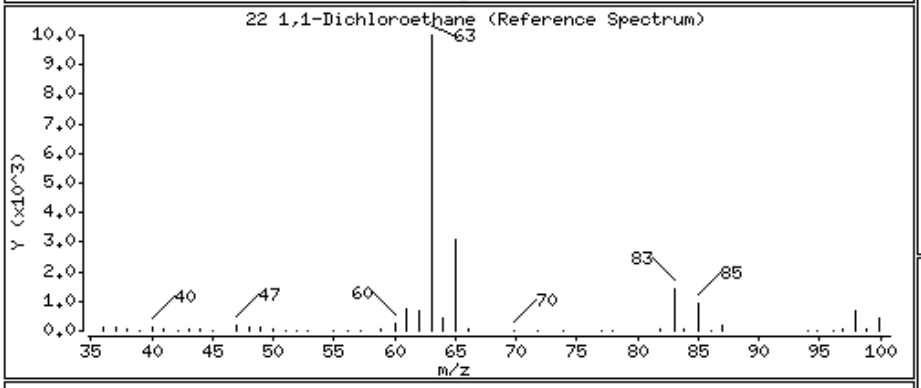
Purge Volume: 5.0 Operator: PC

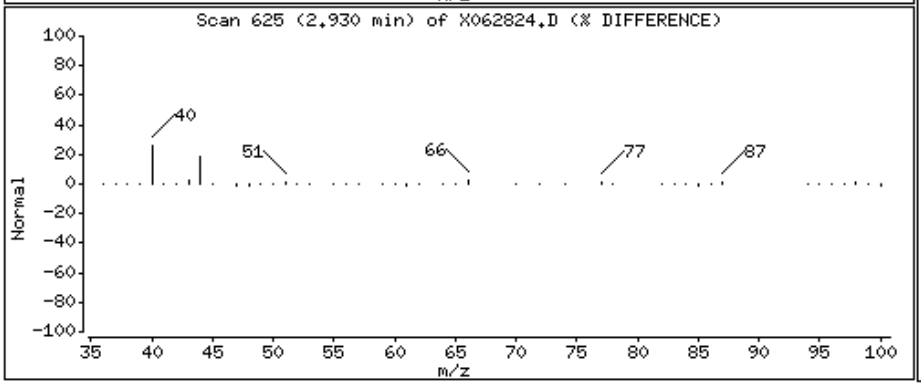
Column phase: DB624 Column diameter: 0.18

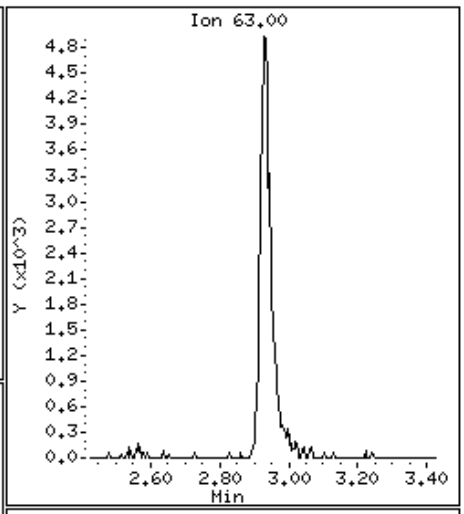
22 1,1-Dichloroethane Concentration: 1.46 ug/l

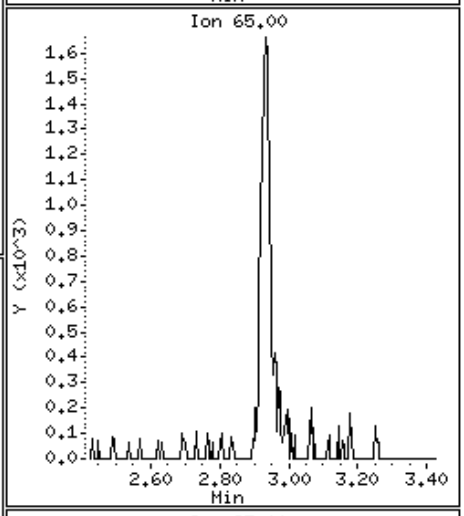


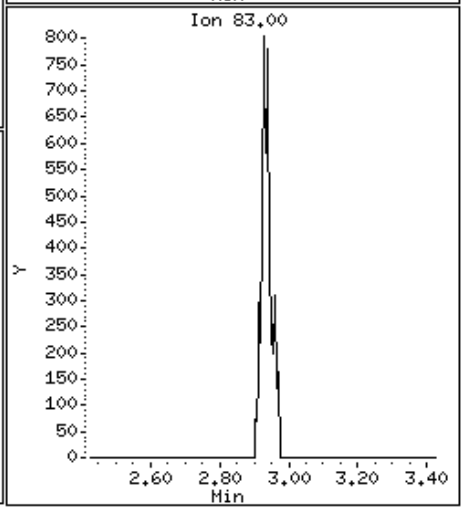












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062824.D

Date : 28-JUN-2023 19:39

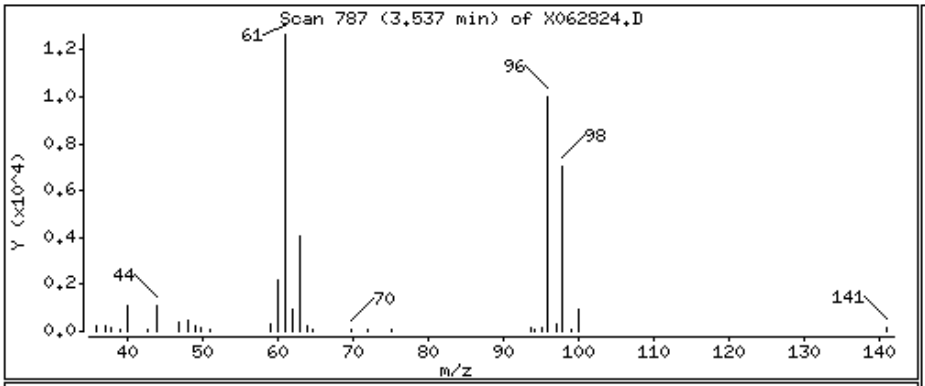
Client ID: HS230611812-05 Instrument: voa6.i

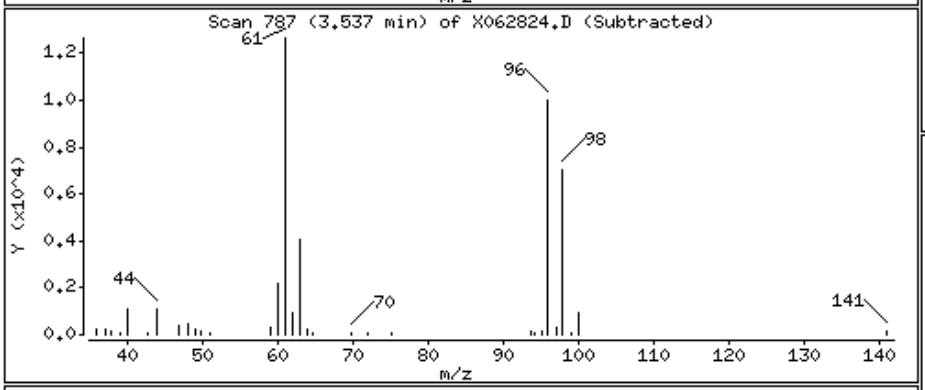
Sample Info: HS23061812-05;HS230611812-05;;;

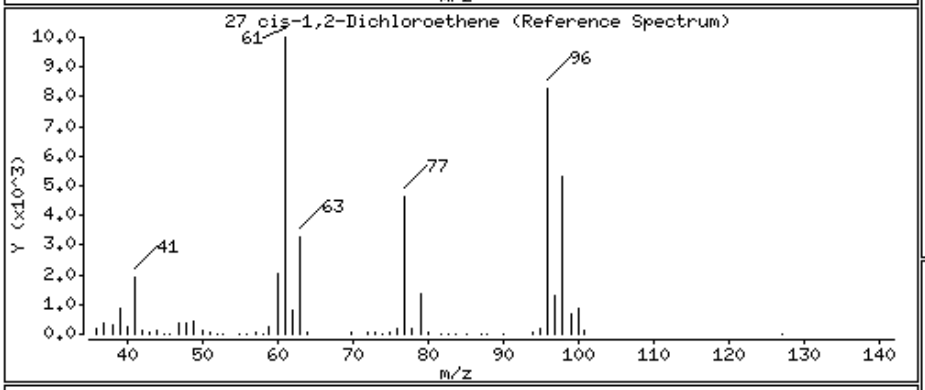
Purge Volume: 5.0 Operator: PC

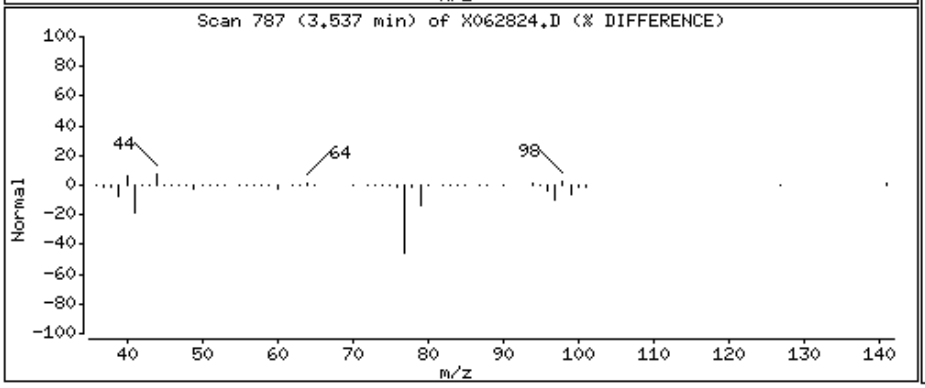
Column phase: DB624 Column diameter: 0.18

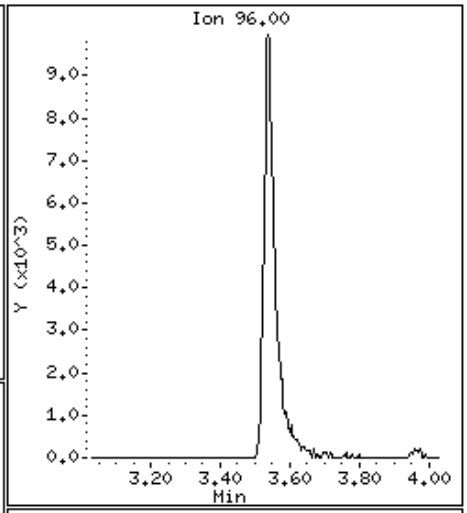
27 cis-1,2-Dichloroethene Concentration: 4.91 ug/l

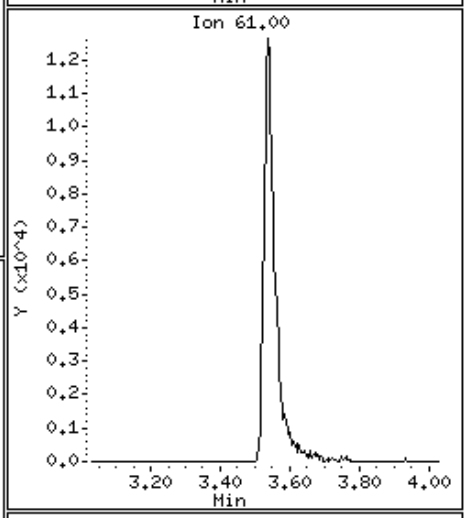


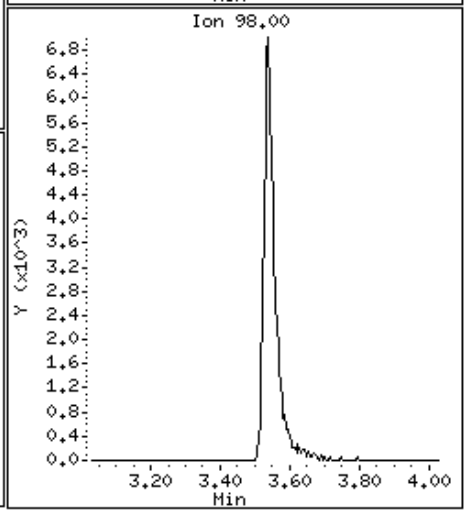












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062824.D Page 5

Date : 28-JUN-2023 19:39

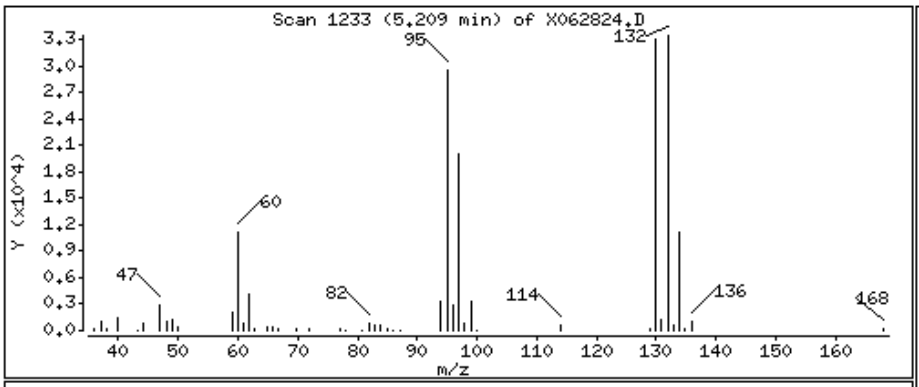
Client ID: HS230611812-05 Instrument: voa6.i

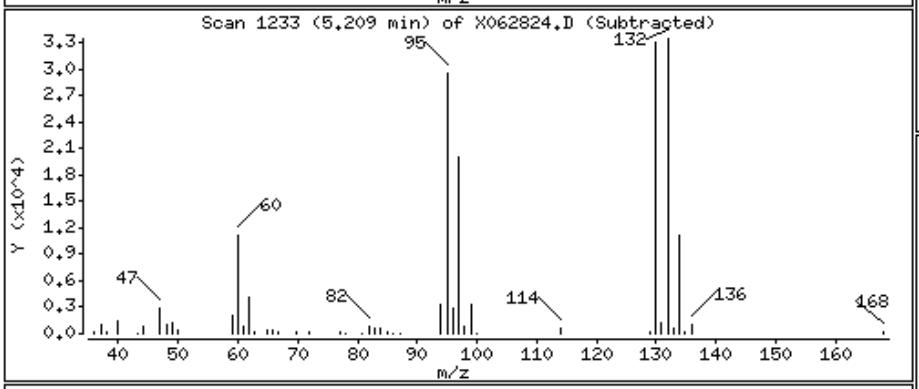
Sample Info: HS23061812-05;HS230611812-05;;;

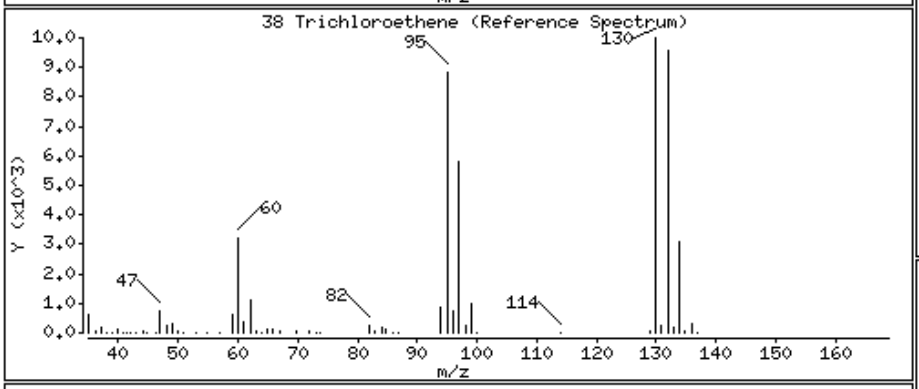
Purge Volume: 5.0 Operator: PC

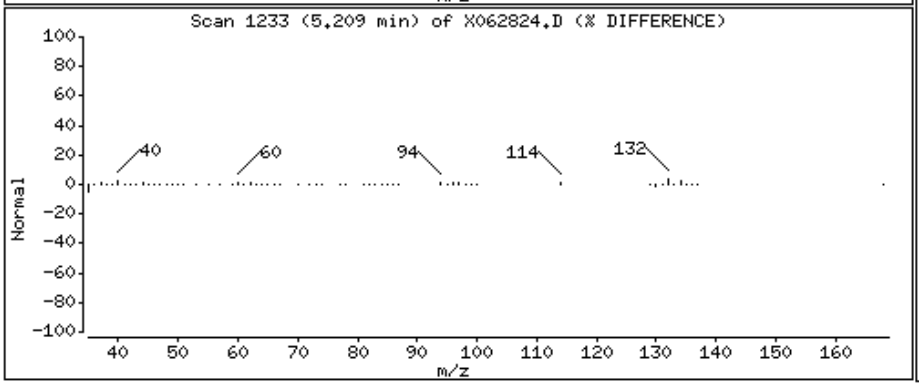
Column phase: DB624 Column diameter: 0.18

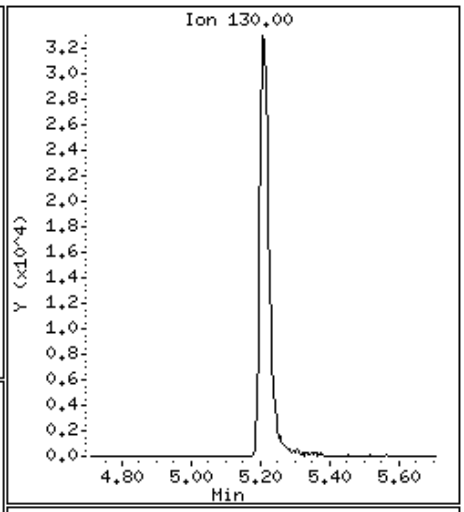
38 Trichloroethene Concentration: 14.57 ug/l

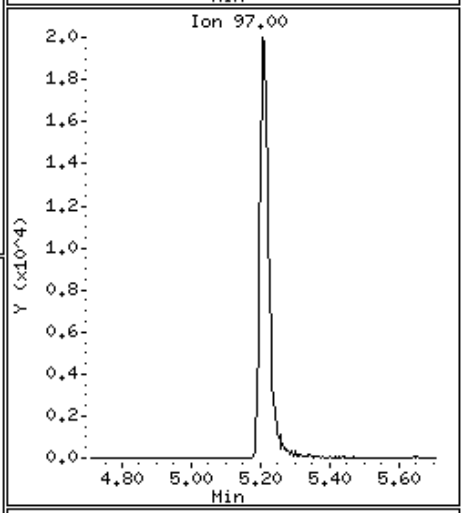


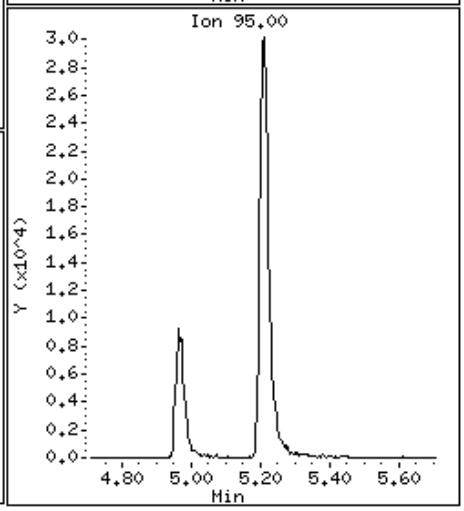












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062824.D Page 6

Date : 28-JUN-2023 19:39

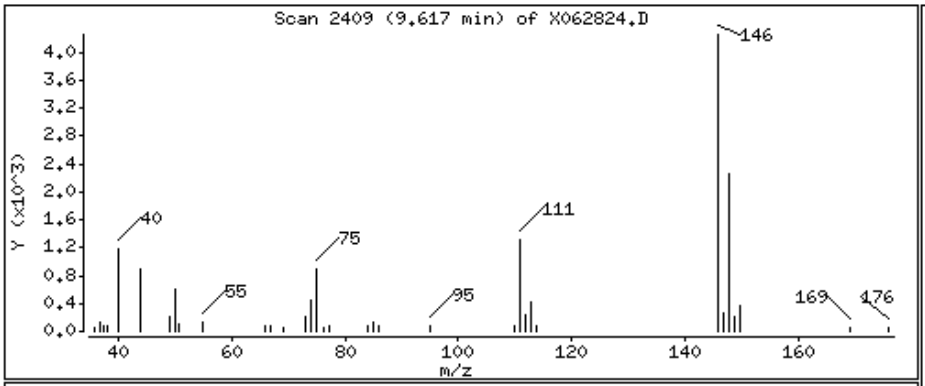
Client ID: HS230611812-05 Instrument: voa6.i

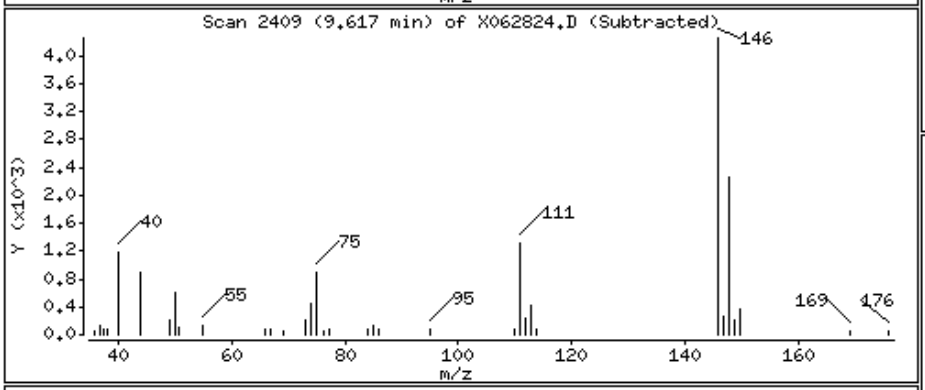
Sample Info: HS23061812-05;HS230611812-05;;;

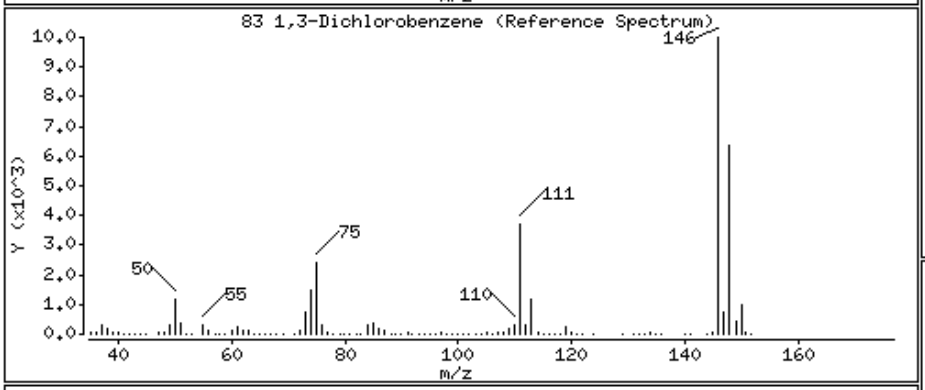
Purge Volume: 5.0 Operator: PC

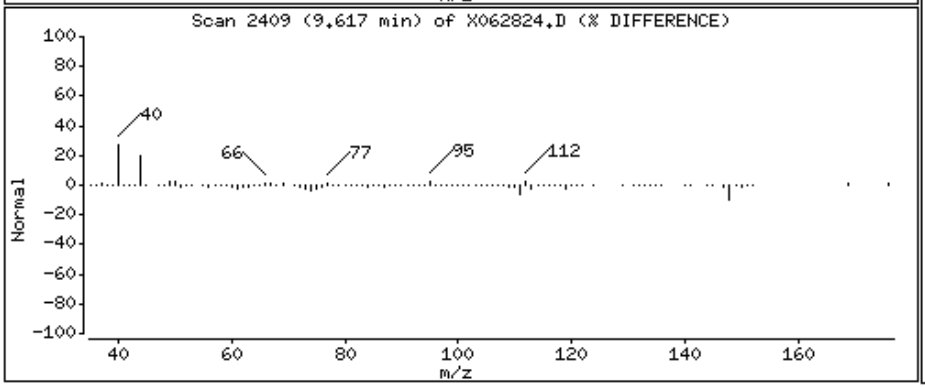
Column phase: DB624 Column diameter: 0.18

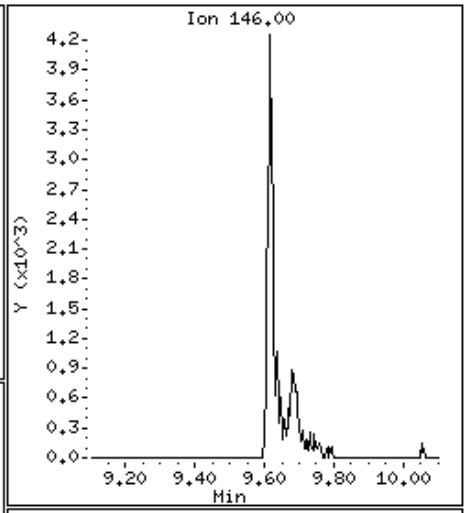
83 1,3-Dichlorobenzene Concentration: 0.63 ug/l

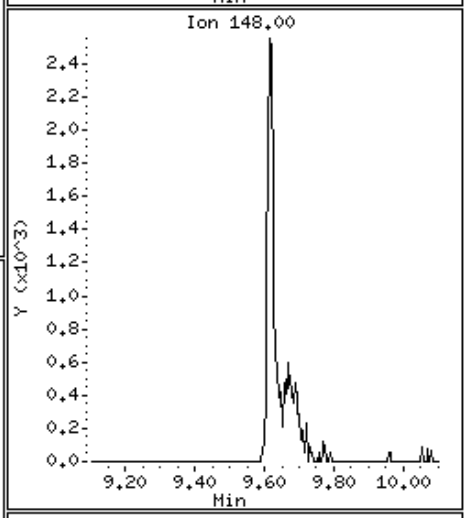


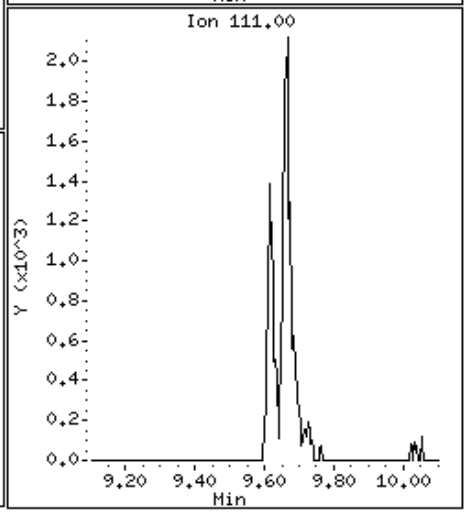












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062824.D Page 7

Date : 28-JUN-2023 19:39

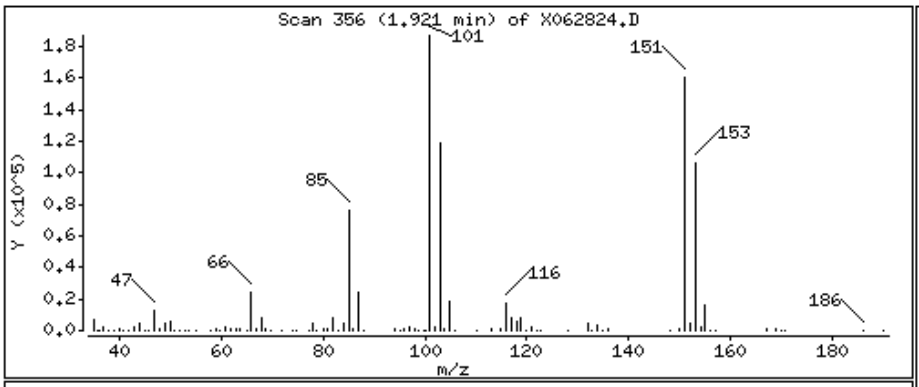
Client ID: HS230611812-05 Instrument: voa6.i

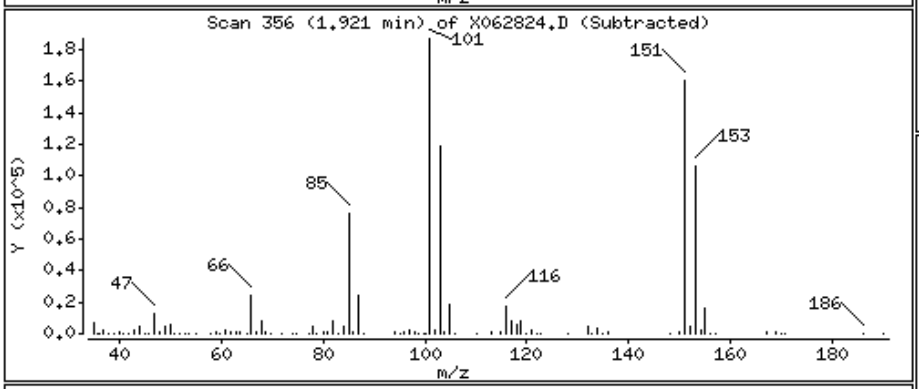
Sample Info: HS23061812-05;HS230611812-05;;;

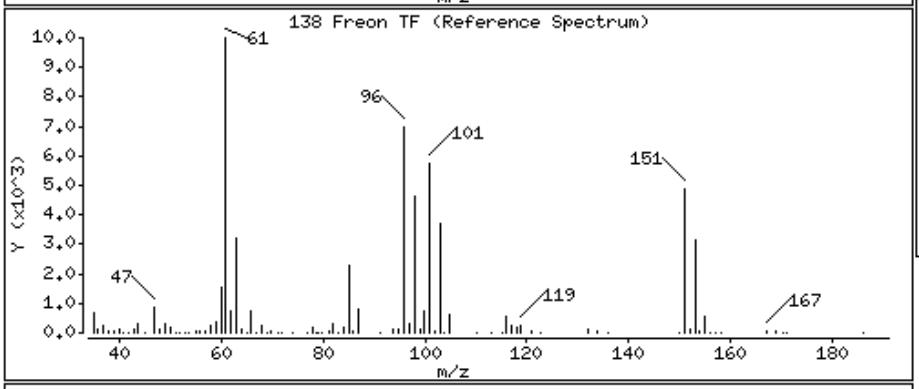
Purge Volume: 5.0 Operator: PC

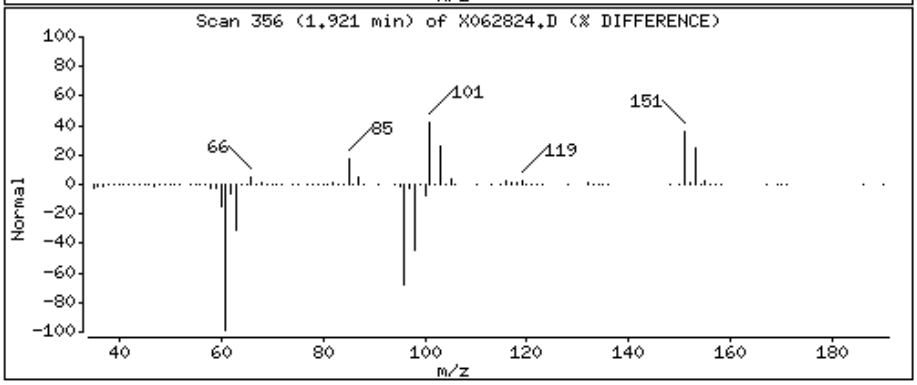
Column phase: DB624 Column diameter: 0.18

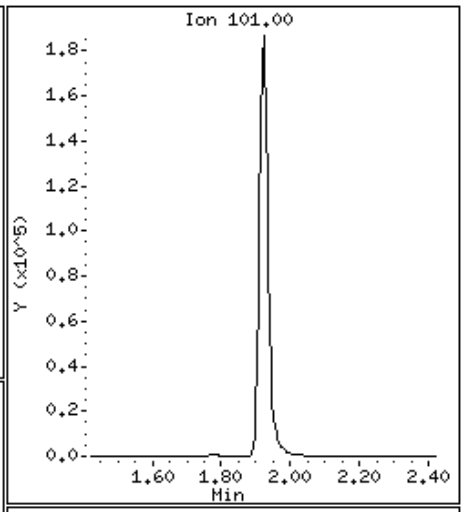
138 Freon TF Concentration: 106.44 ug/l

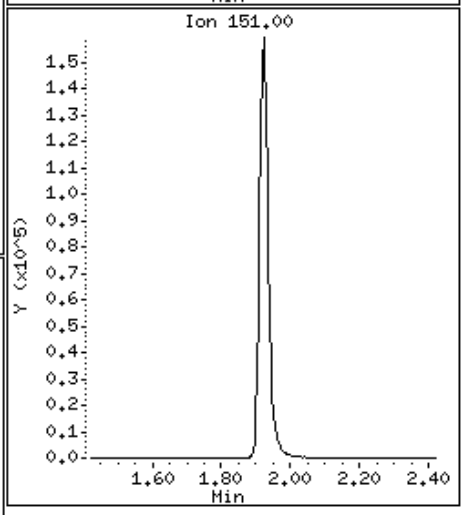












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062824.D
Inj Date : 28-JUN-2023 19:39
InstruID : voa6.i
LabSampID : HS23061812-05

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062825.D
Lab Smp Id: HS23061812-07 Client Smp ID: HS230611812-07
Inj Date : 28-JUN-2023 20:00
Operator : PC Inst ID: voa6.i
Smp Info : HS23061812-07;HS230611812-07;;;
Misc Info : V6;WATER;0;10;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\8260W.m
Meth Date : 06-Jul-2023 12:06 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 23
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	10.000	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	4.181	4.181	(1.000)	445839	50.0000	
	27 cis-1,2-Dichloroethene	96	3.529	3.529	(0.844)	341045	70.8082	708.08
$	30 Dibromofluoromethane	113	4.103	4.099	(0.981)	179019	44.9256	44.92
$	35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.070)	177919	41.2486	41.24
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	621196	50.0000	
	38 Trichloroethene	130	5.208	5.209	(1.049)	523362	118.793	1187.92
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	552950	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	721664	51.6219	51.62
$	69 4-Bromofluorobenzene	95	8.691	8.687	(1.133)	248638	46.0140	46.01
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	291376	50.0000	
M	94 1,2-Dichloroethylene (total)	96				341045	70.8082	708.08
	138 Freon TF	101	1.925	1.921	(0.460)	210681	67.4234	674.23

01202817

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062825.D

Page 1

Date : 28-JUN-2023 20:00

Client ID: HS230611812-07

Instrument: voa6.i

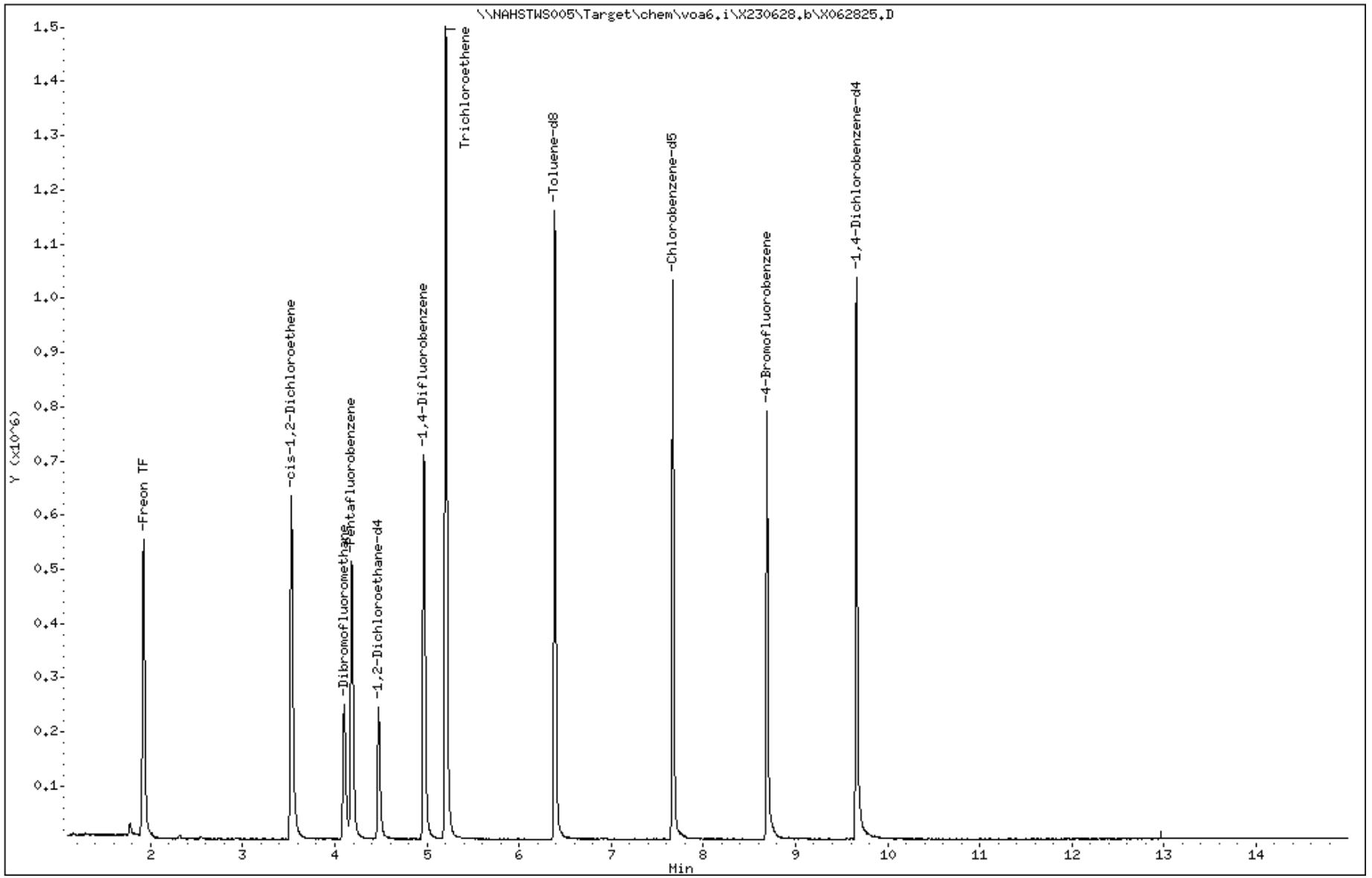
Sample Info: HS23061812-07;HS230611812-07;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062825.D

Date : 28-JUN-2023 20:00

Client ID: HS230611812-07

Instrument: voa6.i

Sample Info: HS23061812-07;HS230611812-07;;;

Purge Volume: 5.0

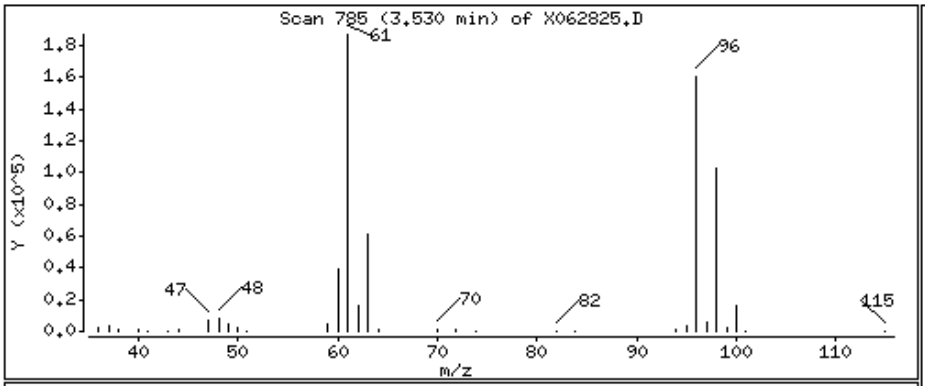
Operator: PC

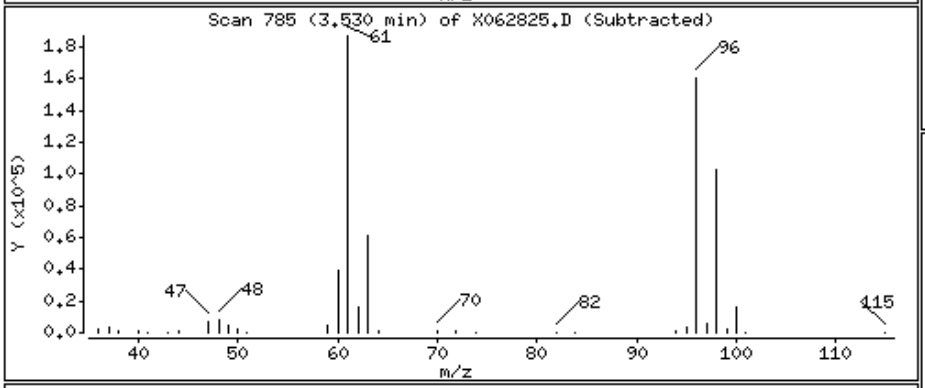
Column phase: DB624

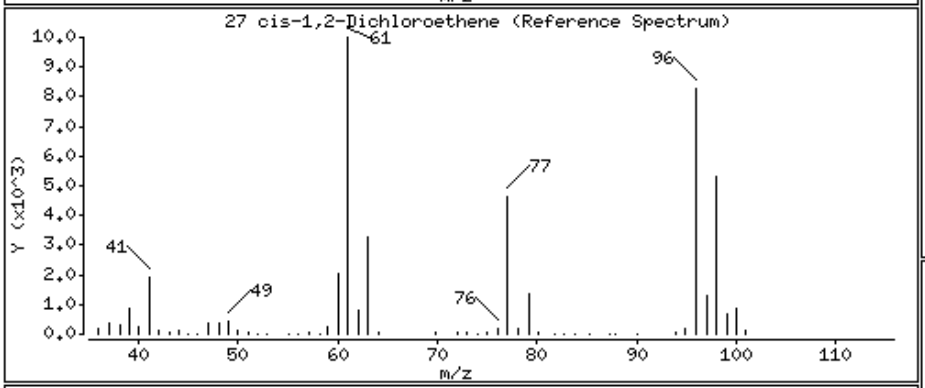
Column diameter: 0.18

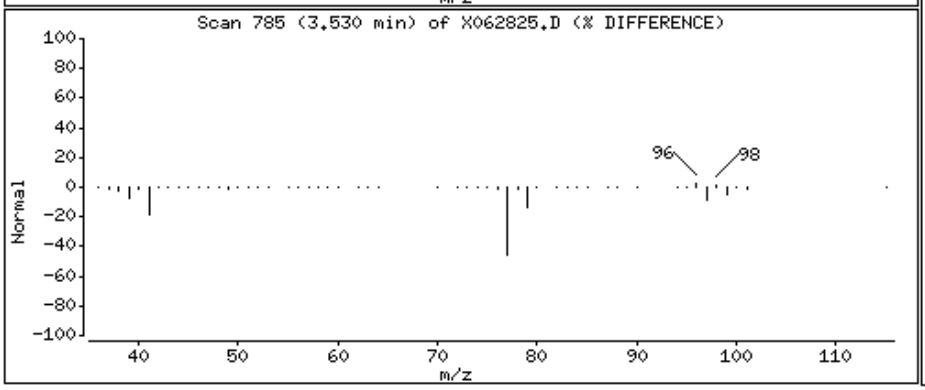
27 cis-1,2-Dichloroethene

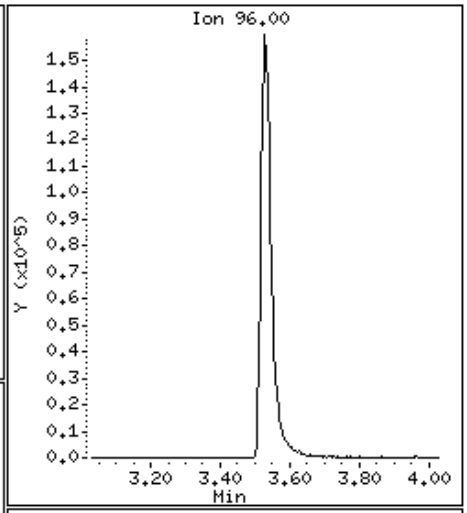
Concentration: 708.08 ug/l

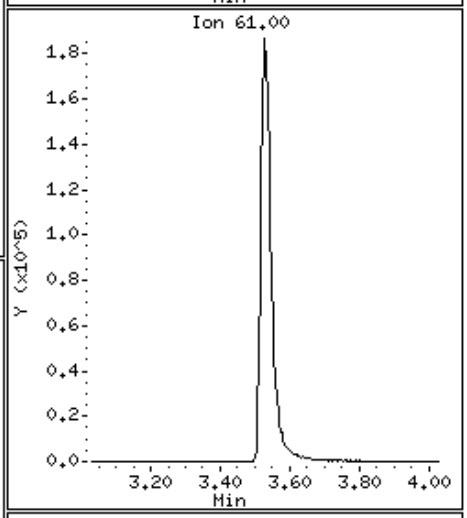


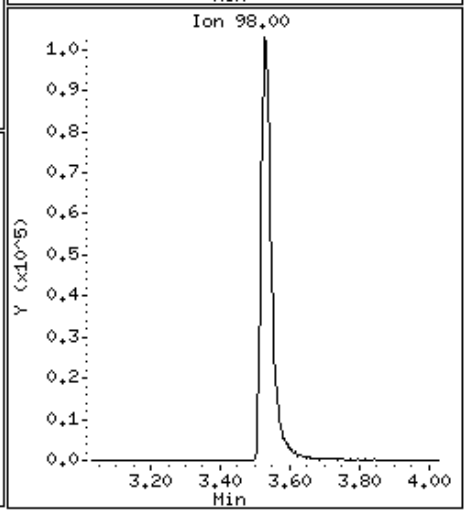












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062825.D

Date : 28-JUN-2023 20:00

Client ID: HS230611812-07

Instrument: voa6.i

Sample Info: HS23061812-07;HS230611812-07;;;

Purge Volume: 5.0

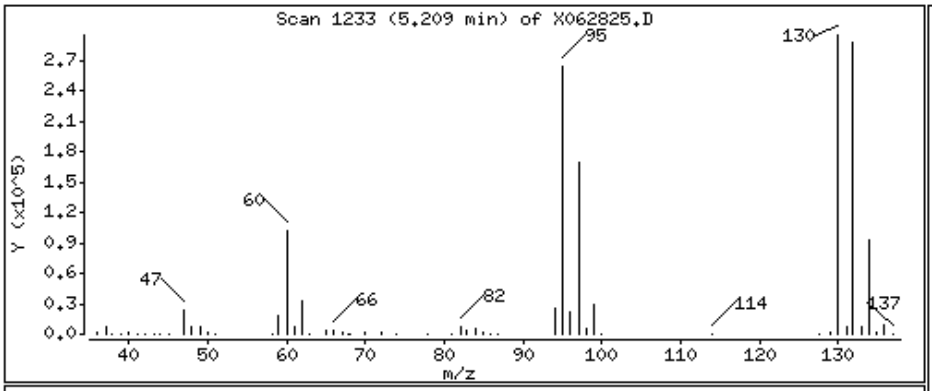
Operator: PC

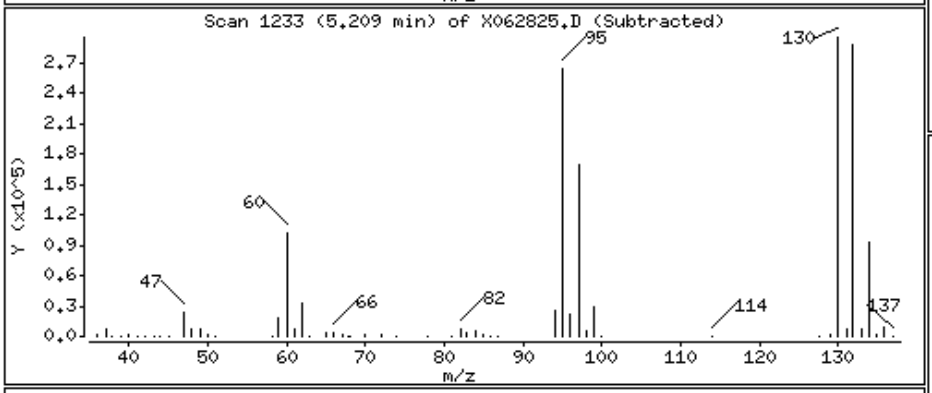
Column phase: DB624

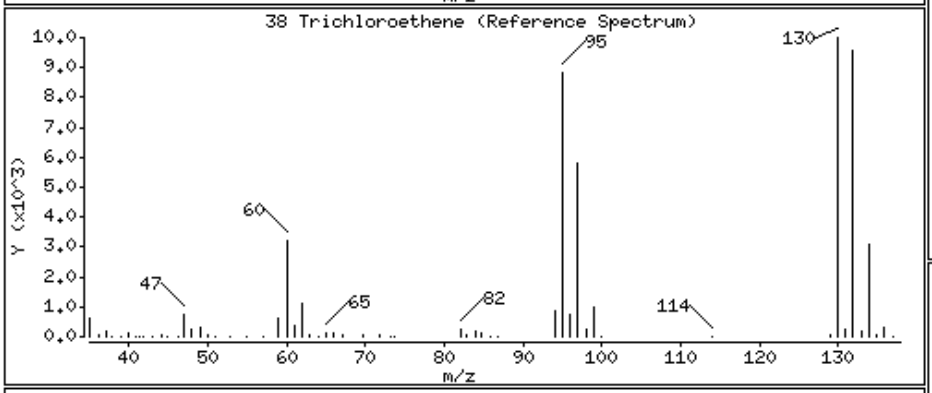
Column diameter: 0.18

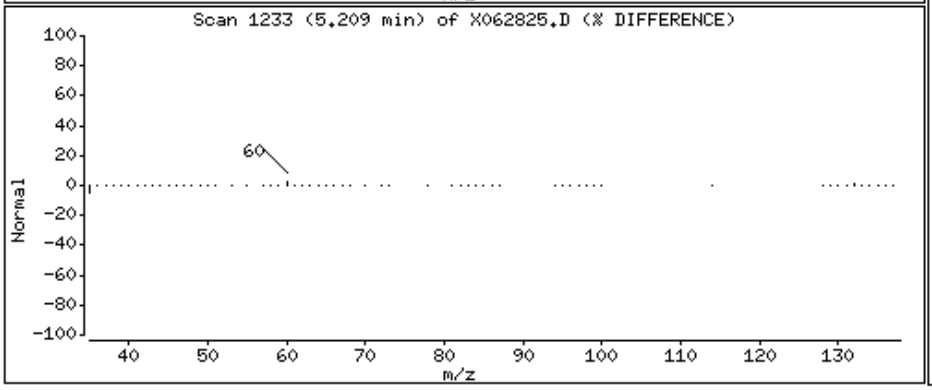
38 Trichloroethene

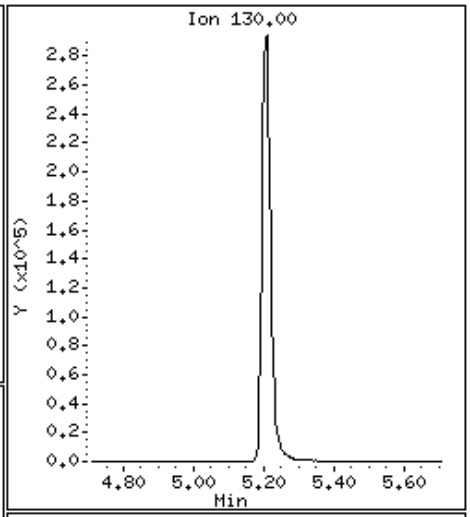
Concentration: 1187.92 ug/l

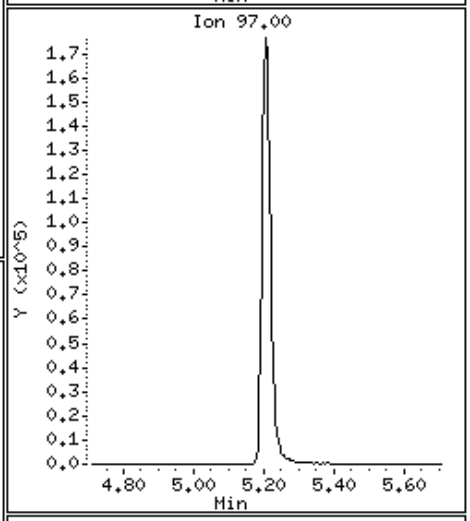


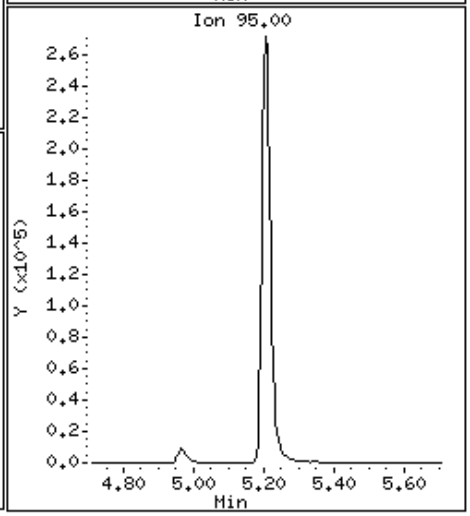












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062825.D

Date : 28-JUN-2023 20:00

Client ID: HS230611812-07

Instrument: voa6.i

Sample Info: HS23061812-07;HS230611812-07;;;

Purge Volume: 5.0

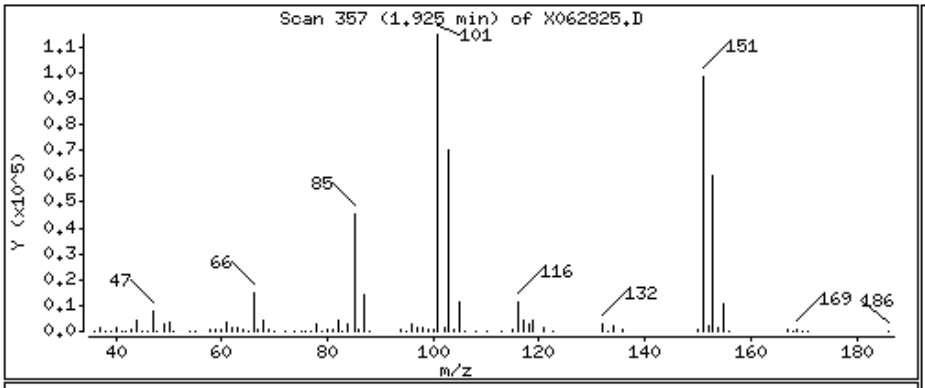
Operator: PC

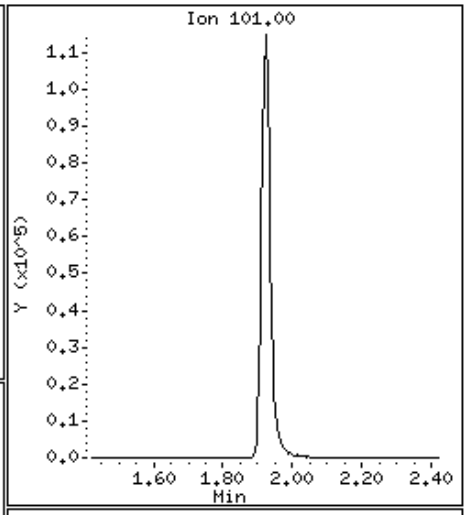
Column phase: DB624

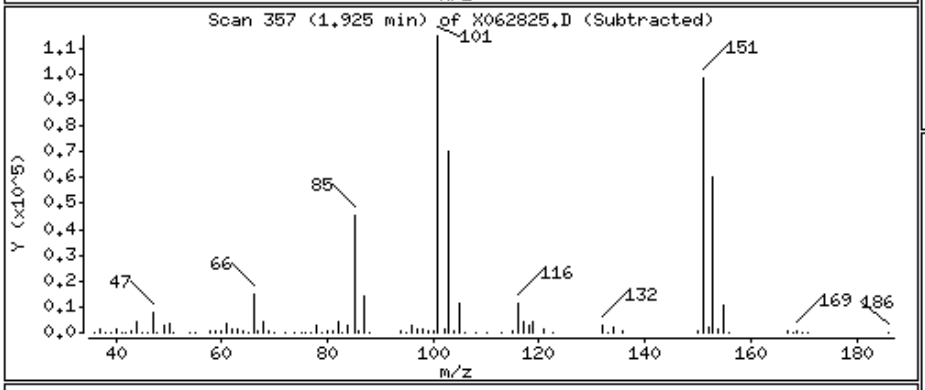
Column diameter: 0.18

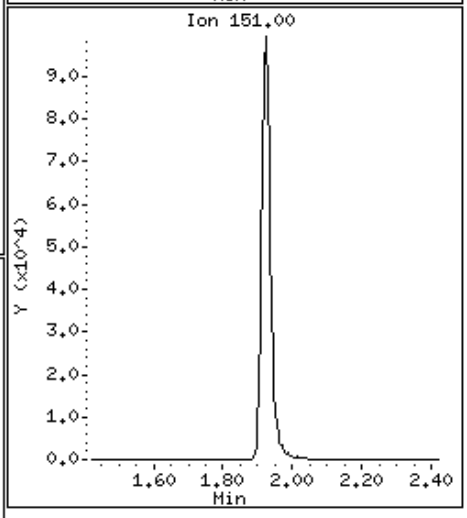
138 Freon TF

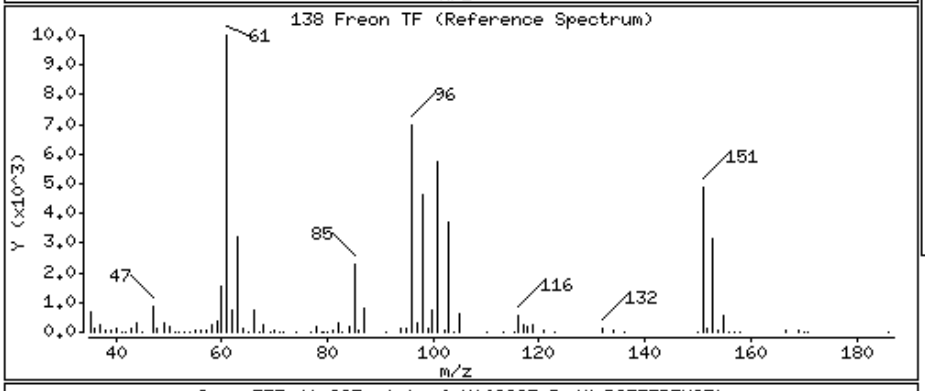
Concentration: 674.23 ug/l

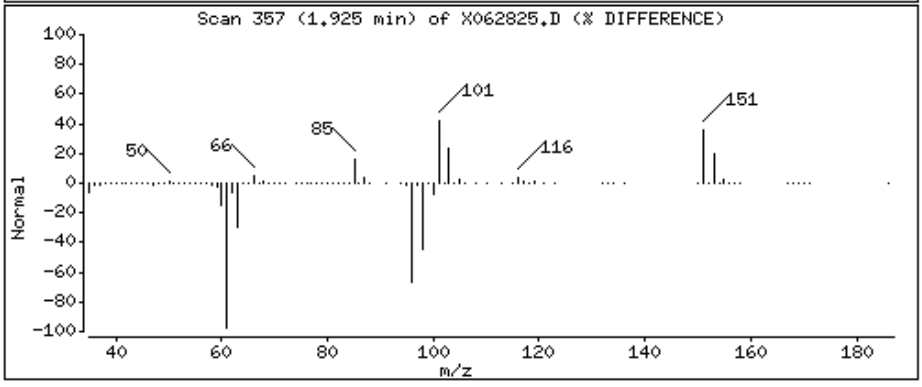












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062825.D
Inj Date : 28-JUN-2023 20:00
InstruID : voa6.i
LabSampID : HS23061812-07

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062828.D Page 1
Report Date: 06-Jul-2023 12:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062828.D
Lab Smp Id: HS23061812-06 Client Smp ID: HS230611812-06
Inj Date : 28-JUN-2023 21:03
Operator : PC Inst ID: voa6.i
Smp Info : HS23061812-06;HS230611812-06;;;
Misc Info : V6;WATER;0;5;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\8260W.m
Meth Date : 06-Jul-2023 12:06 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 26
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	5.000	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	4.181	4.181	(1.000)	434558	50.0000	
	5	Vinyl Chloride	62	1.149	1.149	(0.275)	29590	6.48364	32.41
	20	trans-1,2-Dichloroethene	96	2.543	2.532	(0.608)	12368	3.03808	15.19(a)
	22	1,1-Dichloroethane	63	2.929	2.922	(0.701)	11201	1.52732	7.63(a)
	27	cis-1,2-Dichloroethene	96	3.525	3.529	(0.843)	4380915	933.184	4665.91(A)
	28	Chloroform	83	3.919	3.908	(0.937)	20592	2.60875	13.04(a)
$	30	Dibromofluoromethane	113	4.099	4.099	(0.980)	175377	45.1559	45.15
	33	1,2-Dichloroethane	62	4.564	4.556	(0.919)	23049	4.49235	22.46(a)
$	35	1,2-Dichloroethane-d4	65	4.474	4.474	(1.070)	175587	41.7754	41.77
*	36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	611067	50.0000	
	38	Trichloroethene	130	5.205	5.209	(1.048)	4213174	972.160	4860.79(A)
*	47	Chlorobenzene-d5	117	7.668	7.668	(1.000)	538986	50.0000	
$	48	Toluene-d8	98	6.386	6.386	(0.833)	696892	51.1415	51.14
	53	1,1,2-Trichloroethane	83	6.843	6.836	(0.892)	7018	2.27661	11.38(a)
$	69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	244286	46.3842	46.38
*	70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	283195	50.0000	
M	94	1,2-Dichloroethylene (total)	96				4393283	936.222	4681.10
	138	Freon TF	101	1.921	1.921	(0.459)	4329710	628.268	3141.33(A)

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.

01202824

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062828.D

Date : 28-JUN-2023 21:03

Client ID: HS230611812-06

Instrument: voa6.i

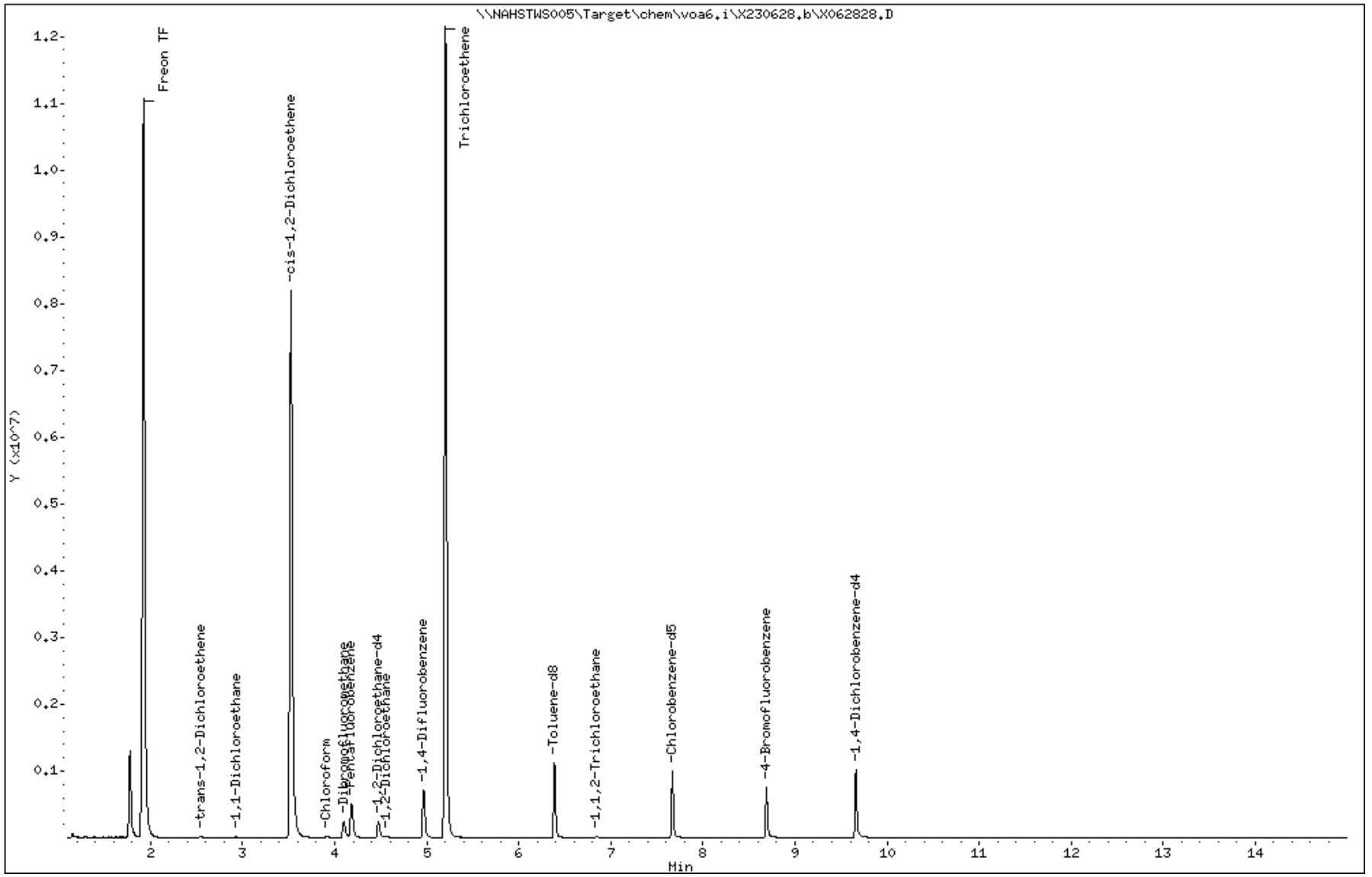
Sample Info: HS23061812-06;HS230611812-06;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062828.D

Date : 28-JUN-2023 21:03

Client ID: HS230611812-06

Instrument: voa6.i

Sample Info: HS23061812-06;HS230611812-06;;;

Purge Volume: 5.0

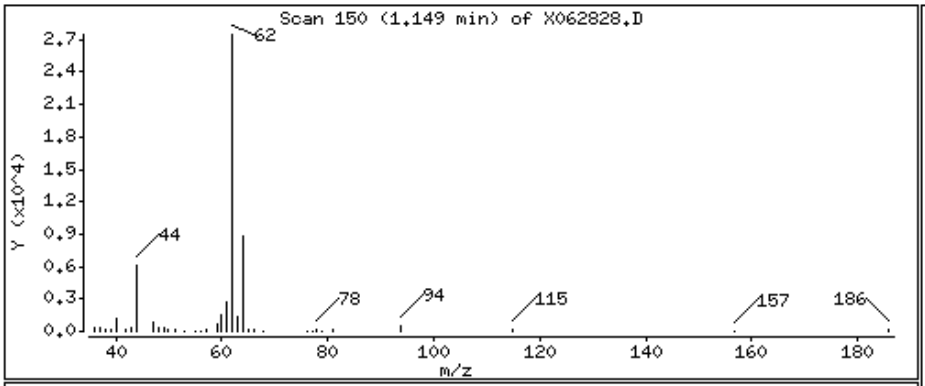
Operator: PC

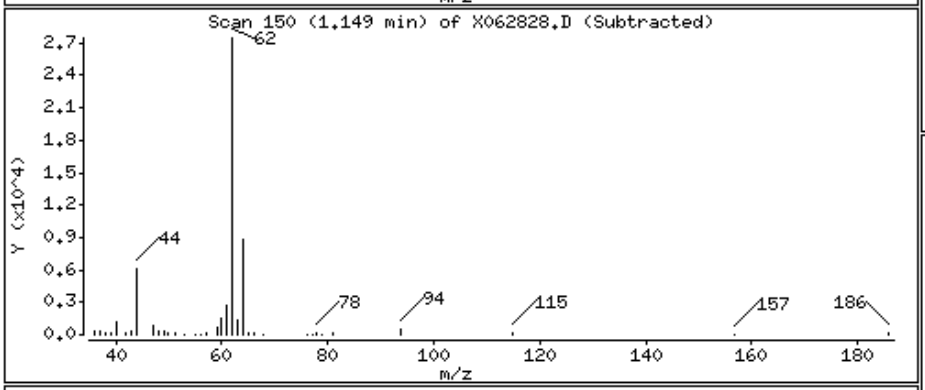
Column phase: DB624

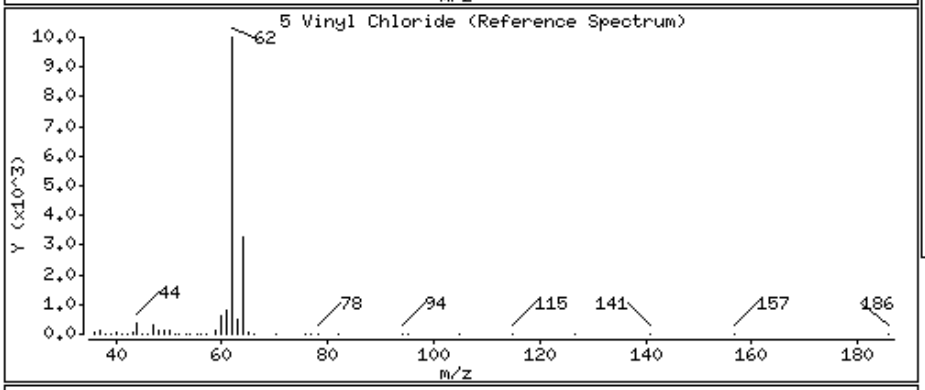
Column diameter: 0.18

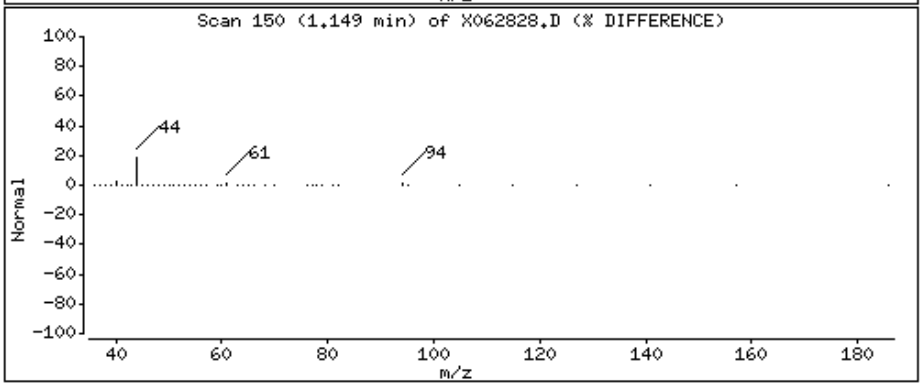
5 Vinyl Chloride

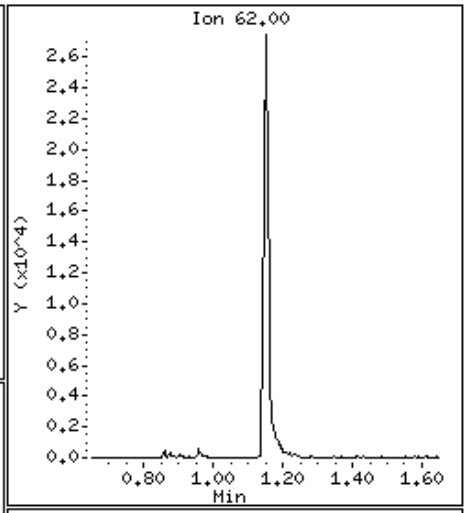
Concentration: 32.41 ug/l

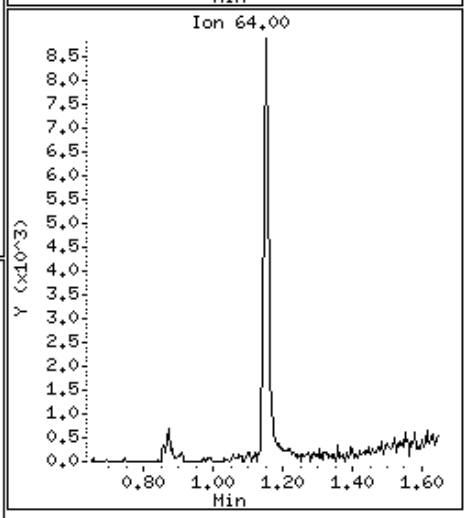












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062828.D

Date : 28-JUN-2023 21:03

Client ID: HS230611812-06

Instrument: voa6.i

Sample Info: HS23061812-06;HS230611812-06;;;

Purge Volume: 5.0

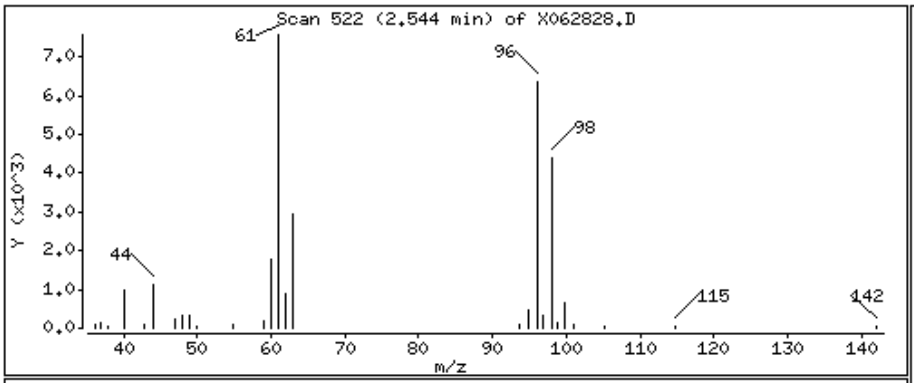
Operator: PC

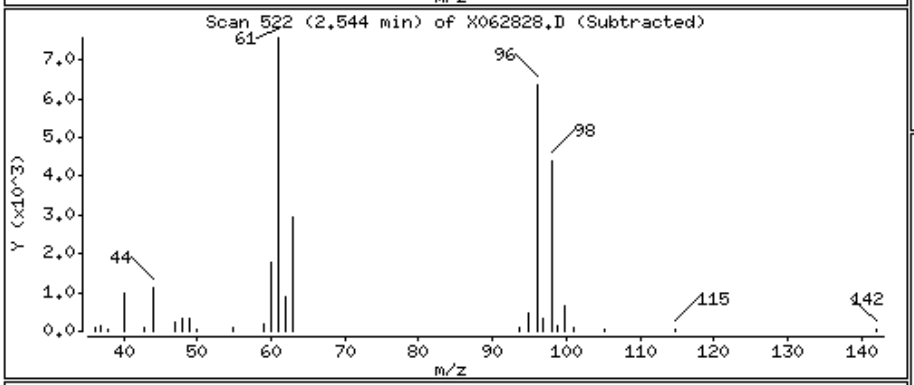
Column phase: DB624

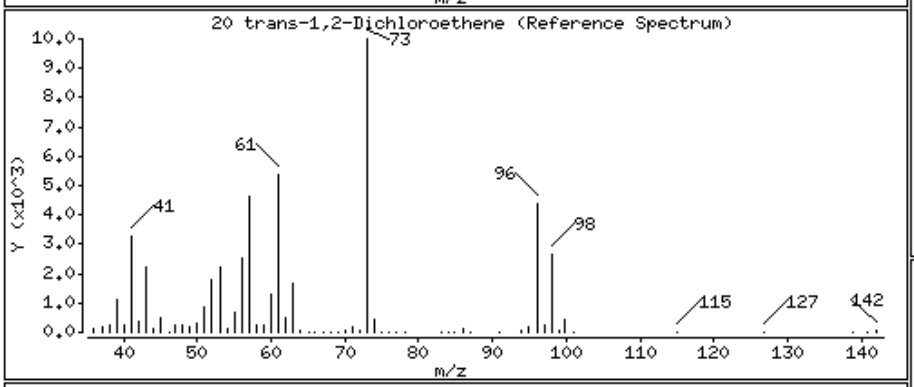
Column diameter: 0.18

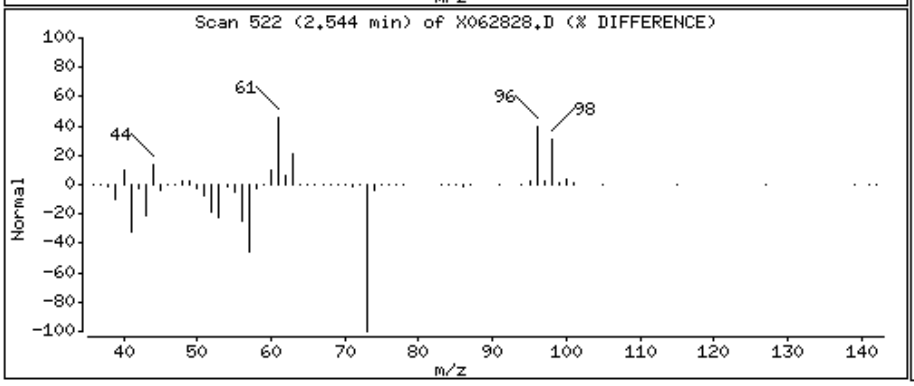
20 trans-1,2-Dichloroethene

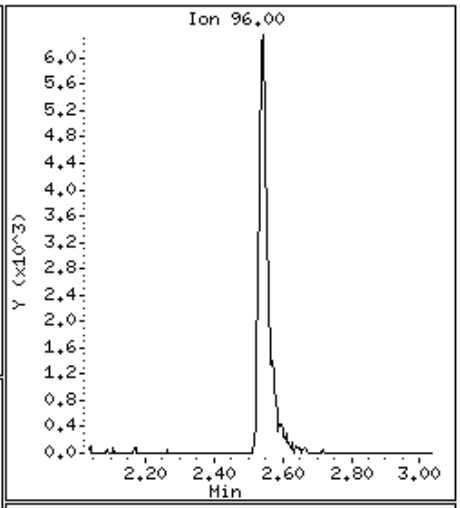
Concentration: 15.19 ug/l

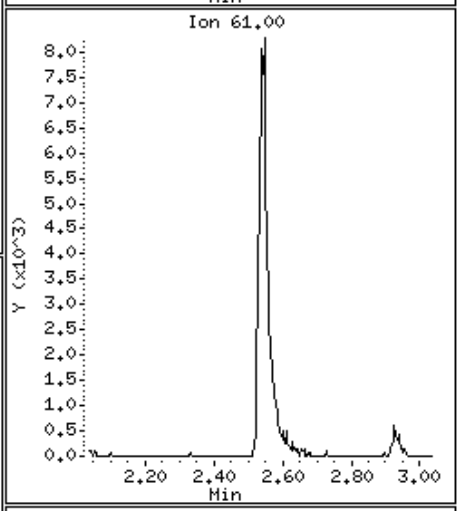


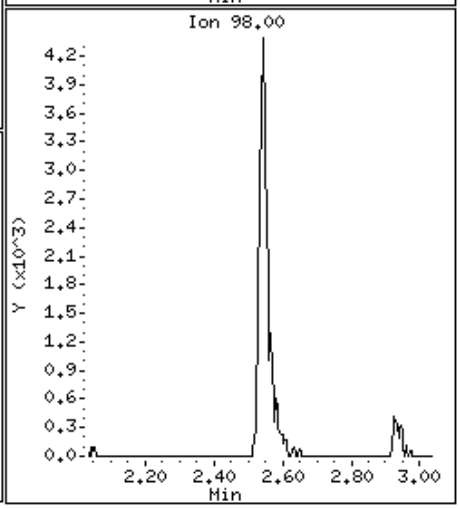












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062828.D Page 4

Date : 28-JUN-2023 21:03

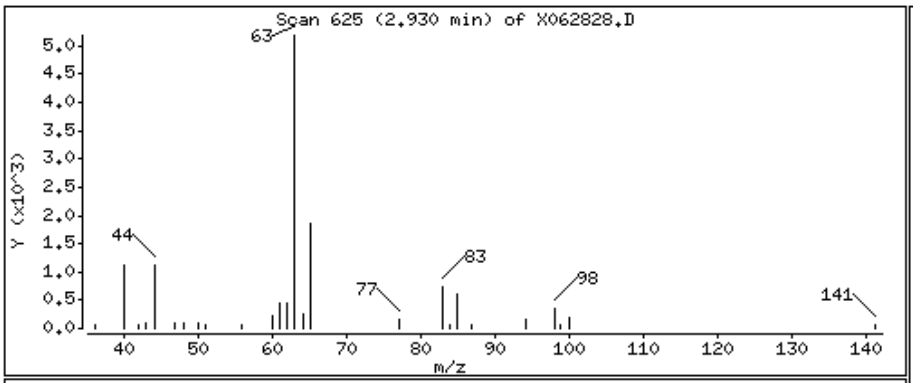
Client ID: HS230611812-06 Instrument: voa6.i

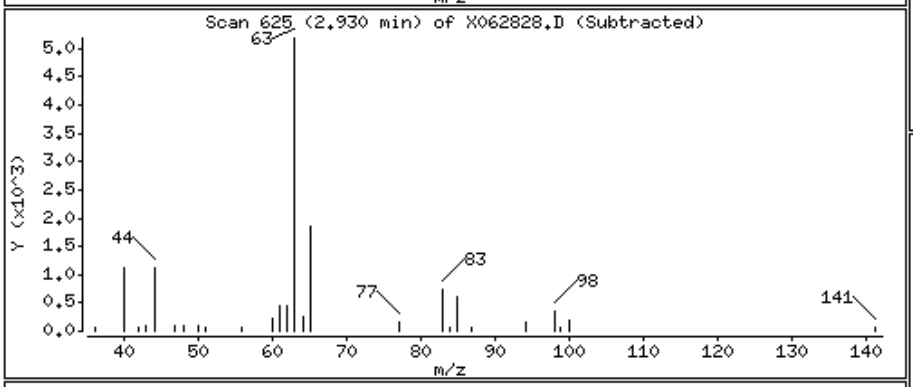
Sample Info: HS23061812-06;HS230611812-06;;;

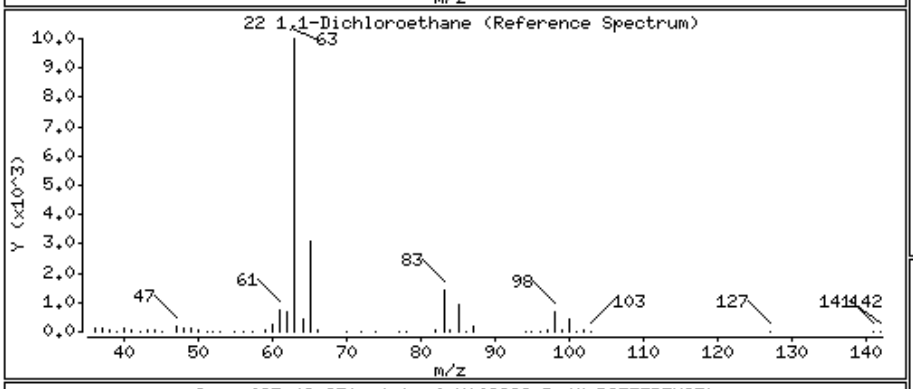
Purge Volume: 5.0 Operator: PC

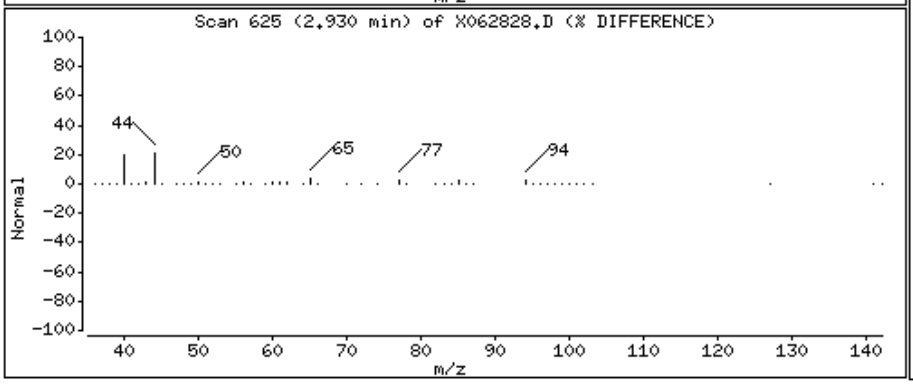
Column phase: DB624 Column diameter: 0.18

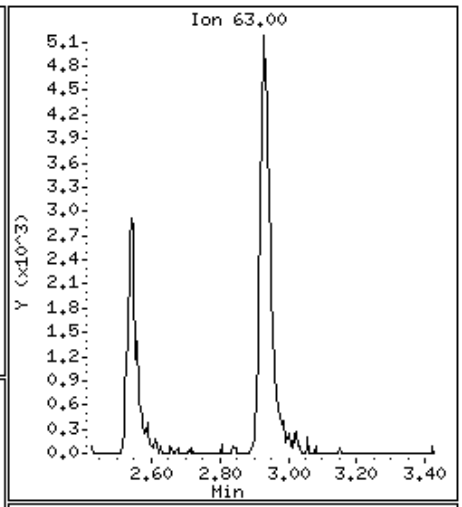
22 1,1-Dichloroethane Concentration: 7.63 ug/l

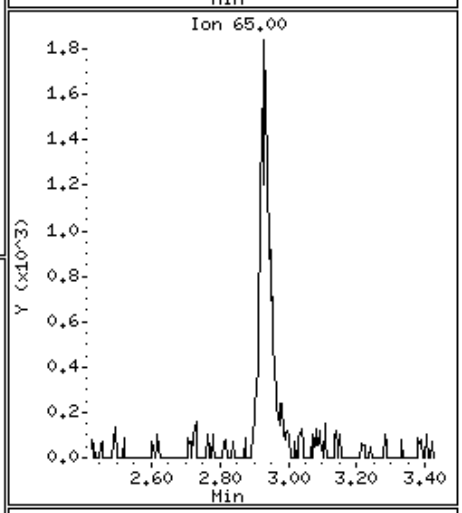


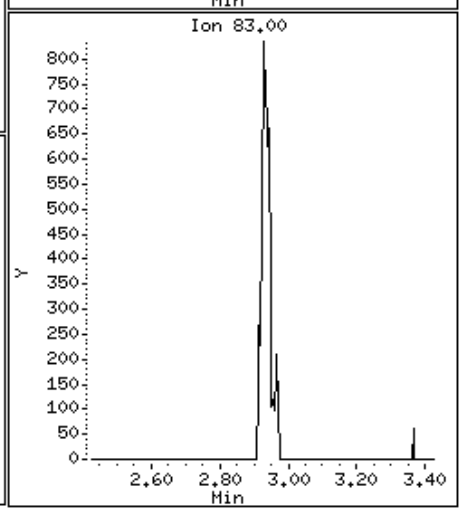












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062828.D Page 5

Date : 28-JUN-2023 21:03

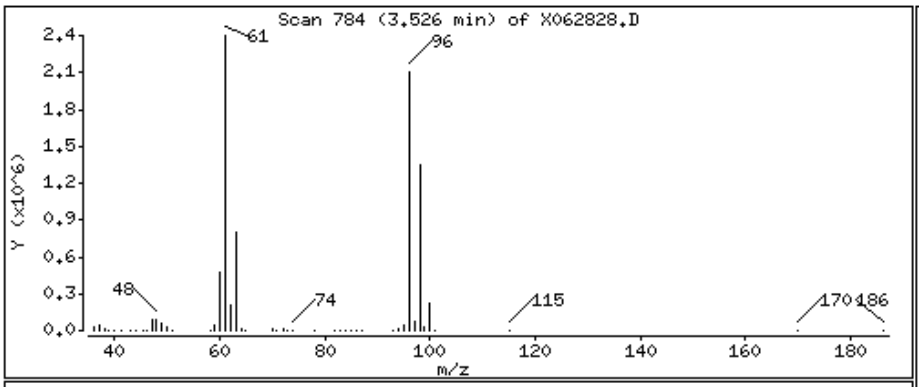
Client ID: HS230611812-06 Instrument: voa6.i

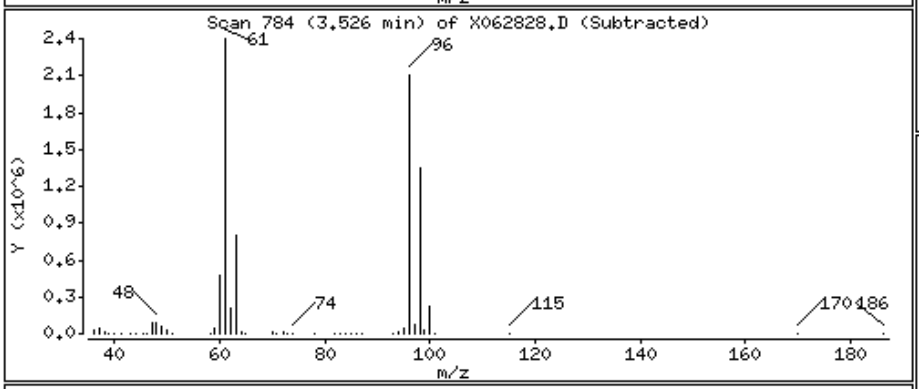
Sample Info: HS23061812-06;HS230611812-06;;;

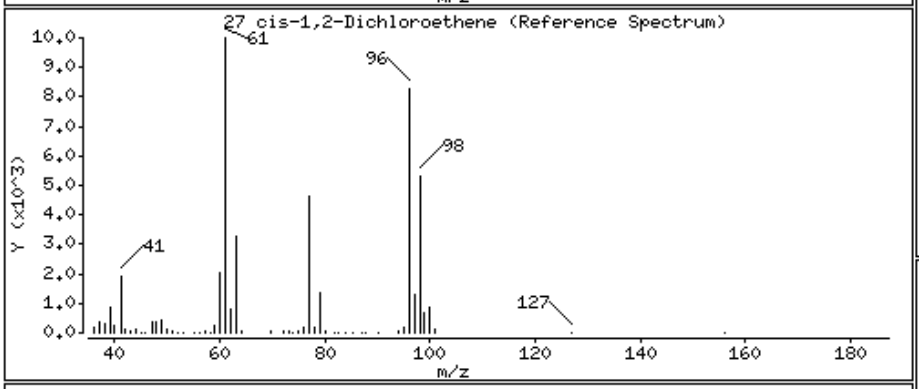
Purge Volume: 5.0 Operator: PC

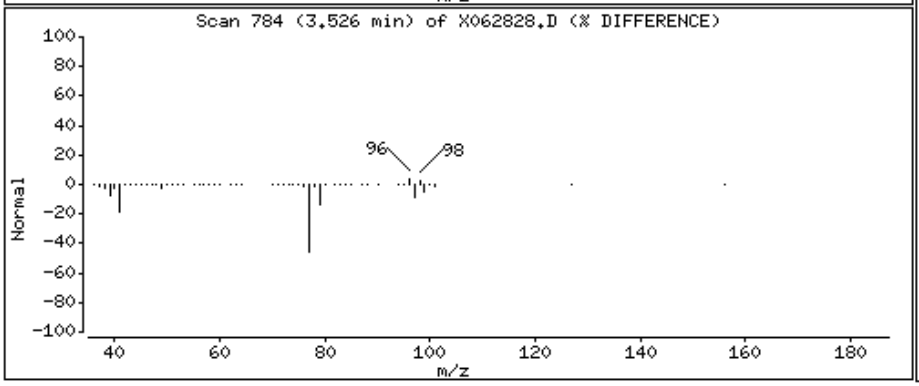
Column phase: DB624 Column diameter: 0.18

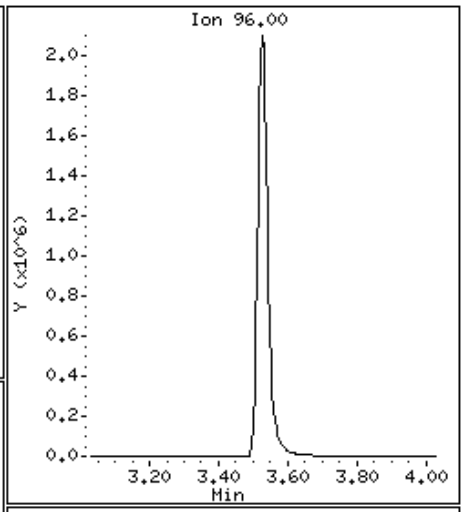
27 cis-1,2-Dichloroethene Concentration: 4665.91 ug/l

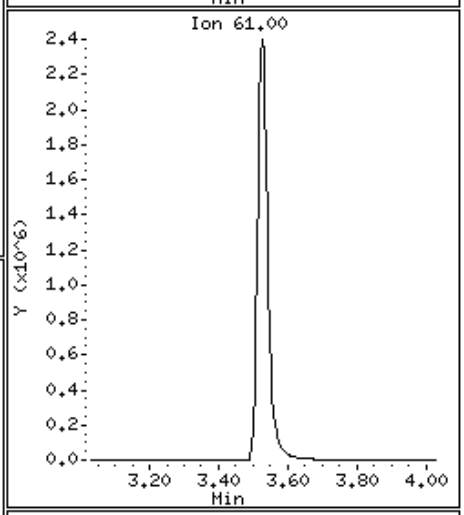


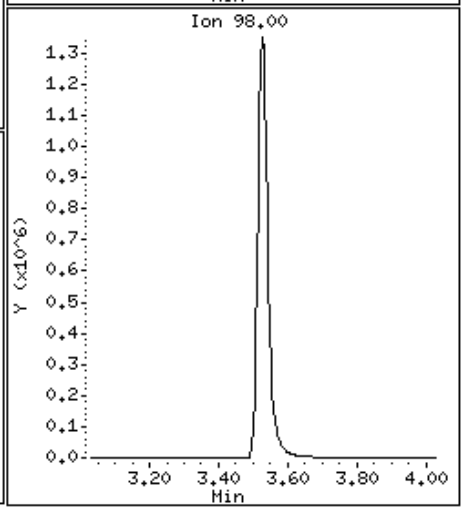












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062828.D

Date : 28-JUN-2023 21:03

Client ID: HS230611812-06

Instrument: voa6.i

Sample Info: HS23061812-06;HS230611812-06;;;

Purge Volume: 5.0

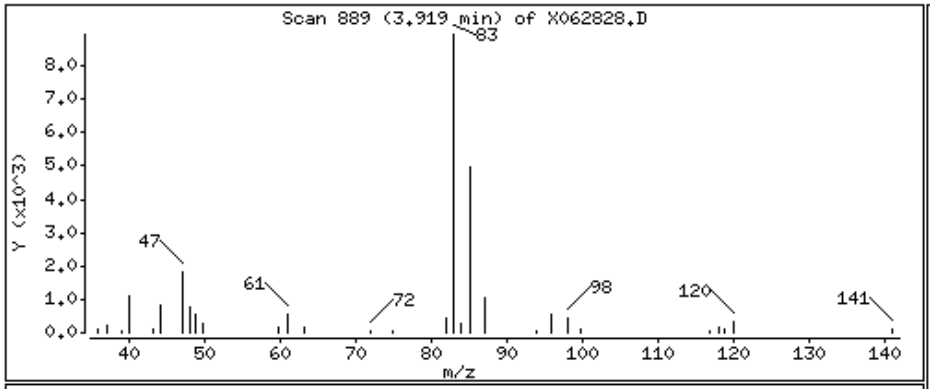
Operator: PC

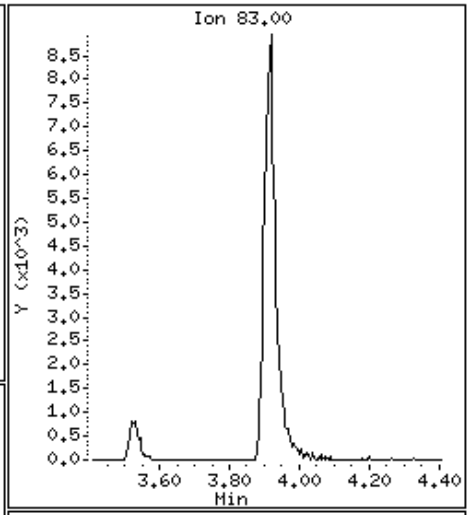
Column phase: DB624

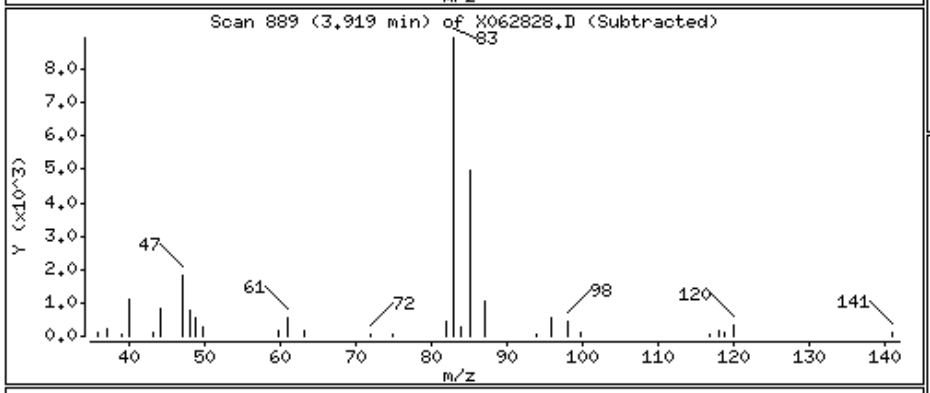
Column diameter: 0.18

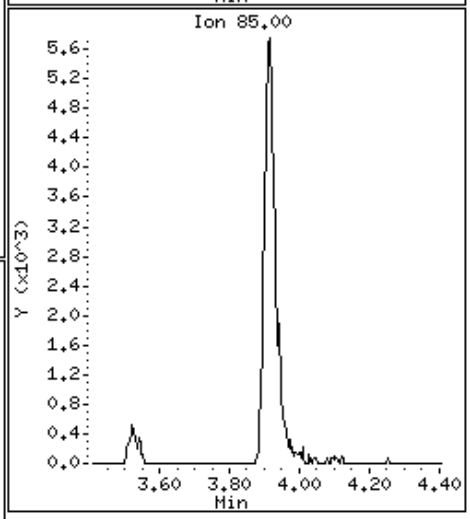
28 Chloroform

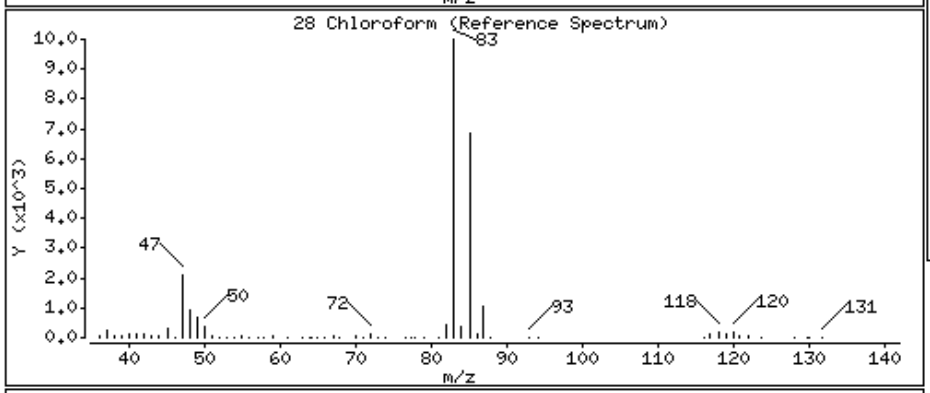
Concentration: 13.04 ug/l

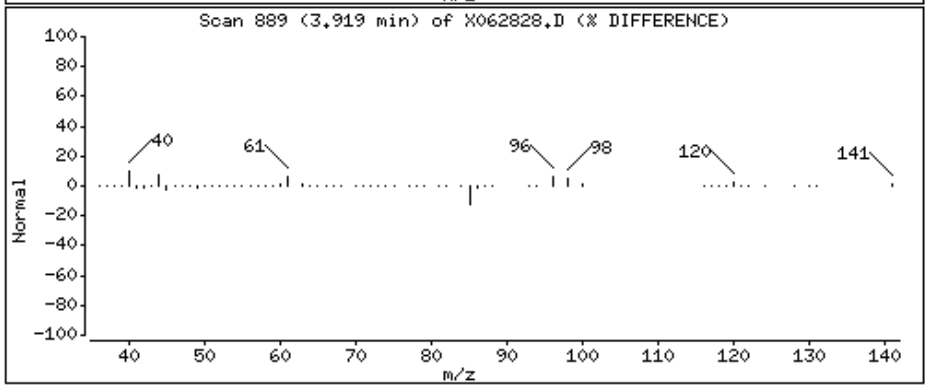












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062828.D

Date : 28-JUN-2023 21:03

Client ID: HS230611812-06

Instrument: voa6.i

Sample Info: HS23061812-06;HS230611812-06;;;

Purge Volume: 5.0

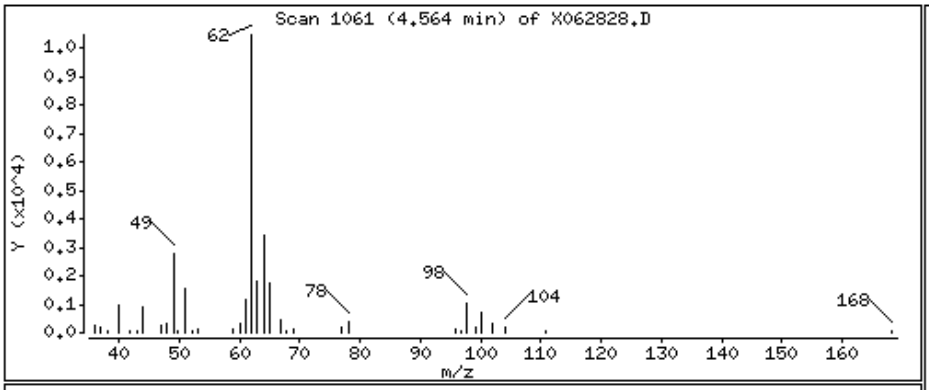
Operator: PC

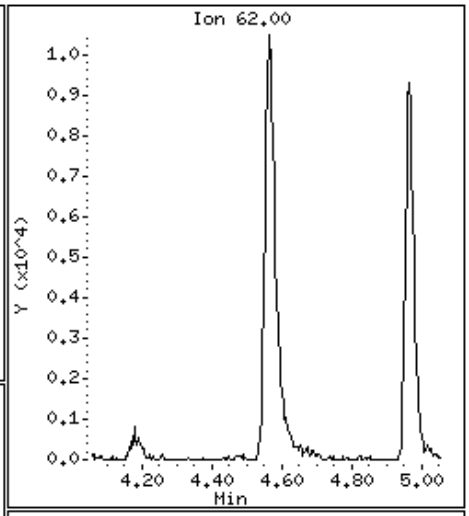
Column phase: DB624

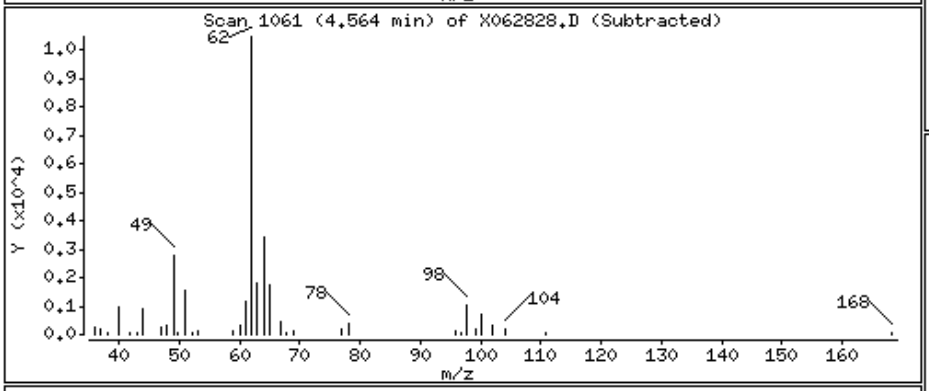
Column diameter: 0.18

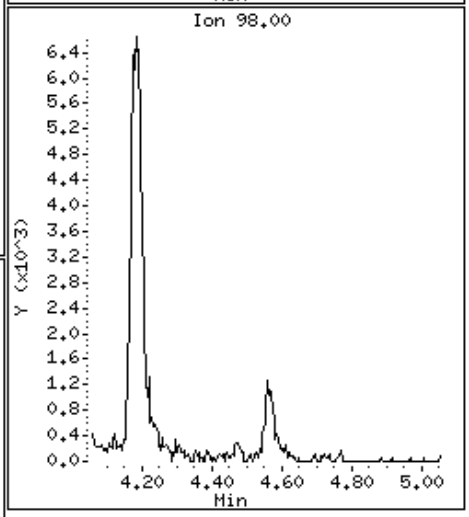
33 1,2-Dichloroethane

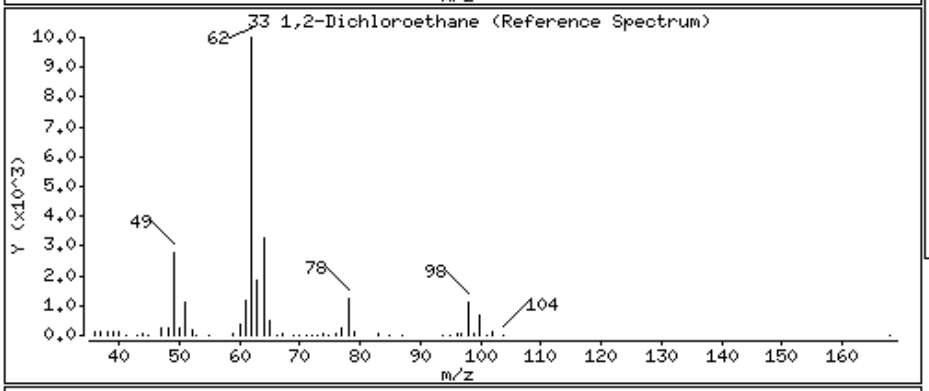
Concentration: 22.46 ug/l

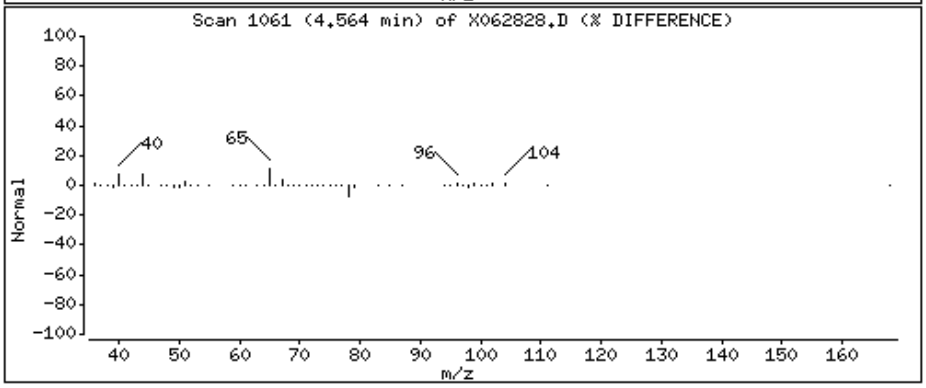












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062828.D Page 8

Date : 28-JUN-2023 21:03

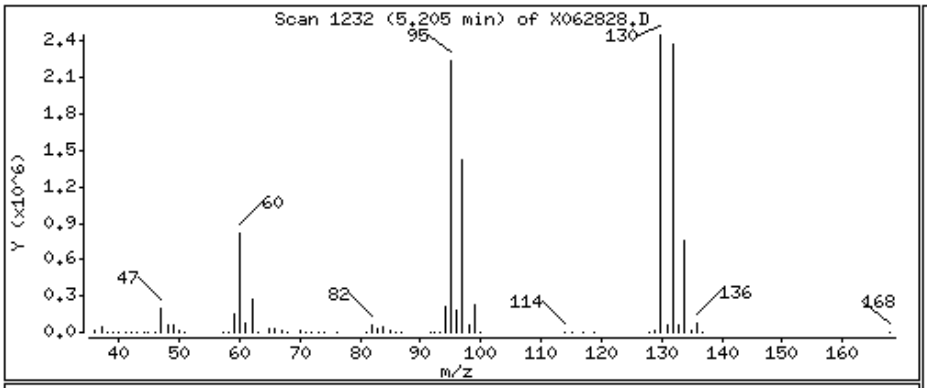
Client ID: HS230611812-06 Instrument: voa6.i

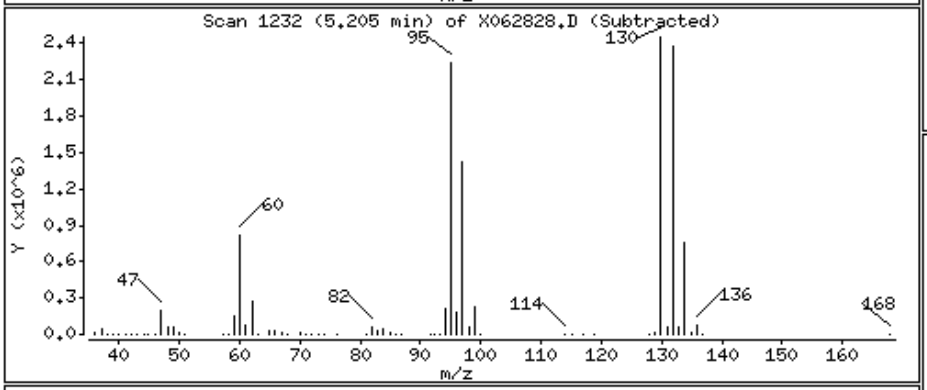
Sample Info: HS23061812-06;HS230611812-06;;;

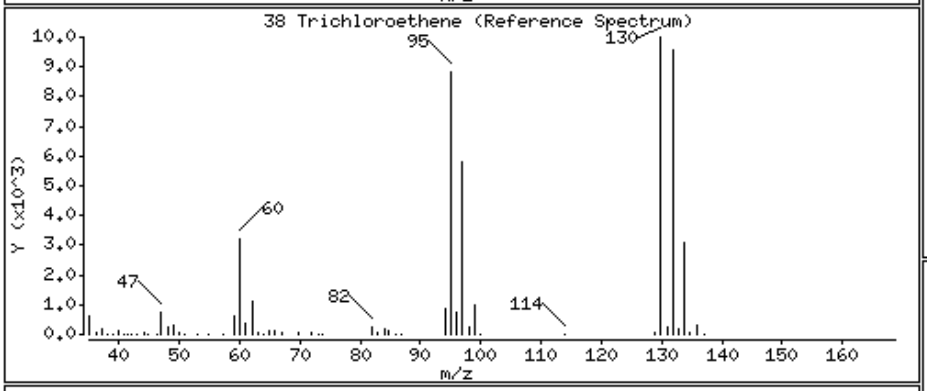
Purge Volume: 5.0 Operator: PC

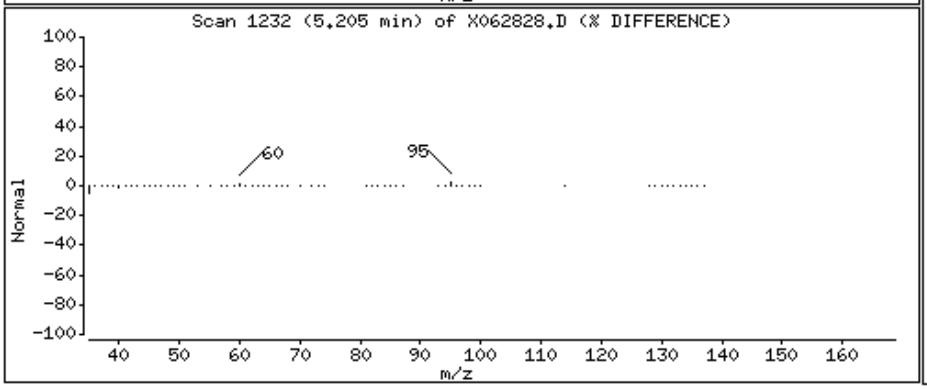
Column phase: DB624 Column diameter: 0.18

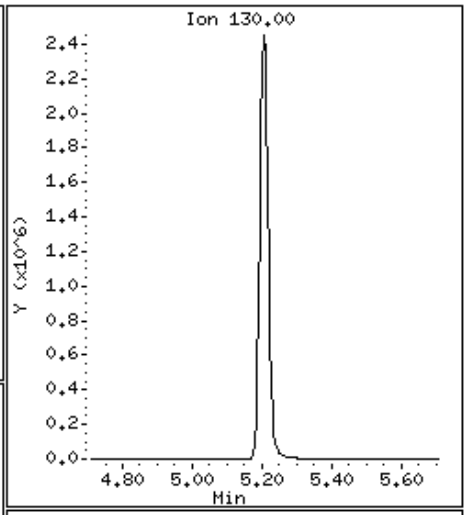
38 Trichloroethene Concentration: 4860.79 ug/l

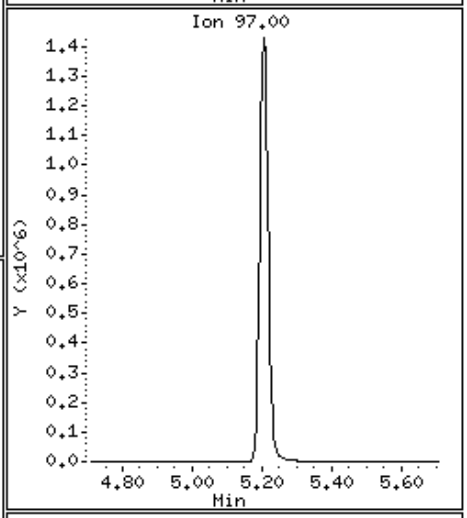


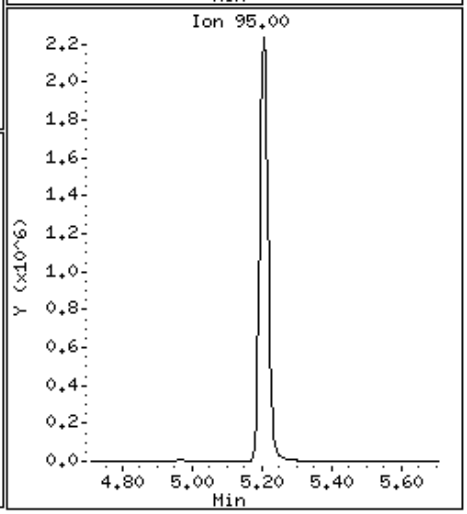












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062828.D

Date : 28-JUN-2023 21:03

Client ID: HS230611812-06

Instrument: voa6.i

Sample Info: HS23061812-06;HS230611812-06;;;

Purge Volume: 5.0

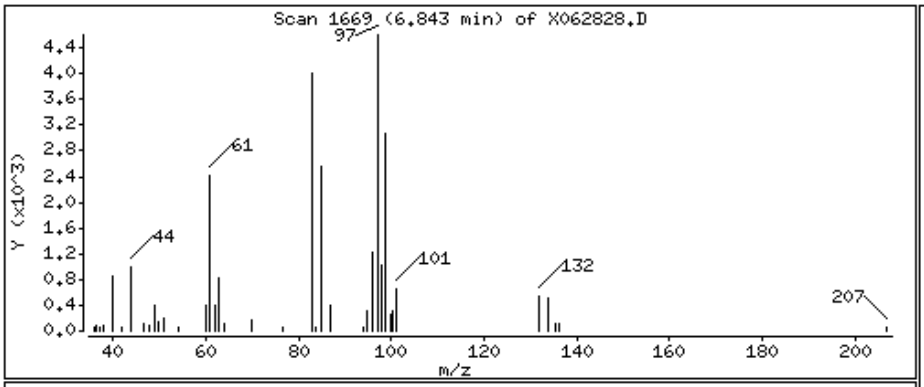
Operator: PC

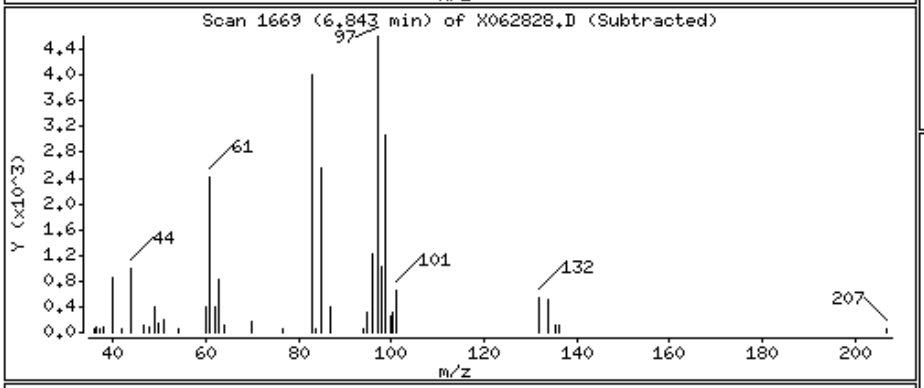
Column phase: DB624

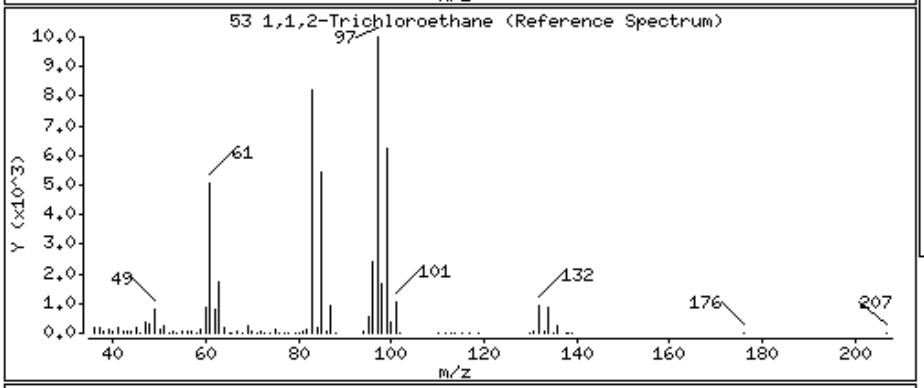
Column diameter: 0.18

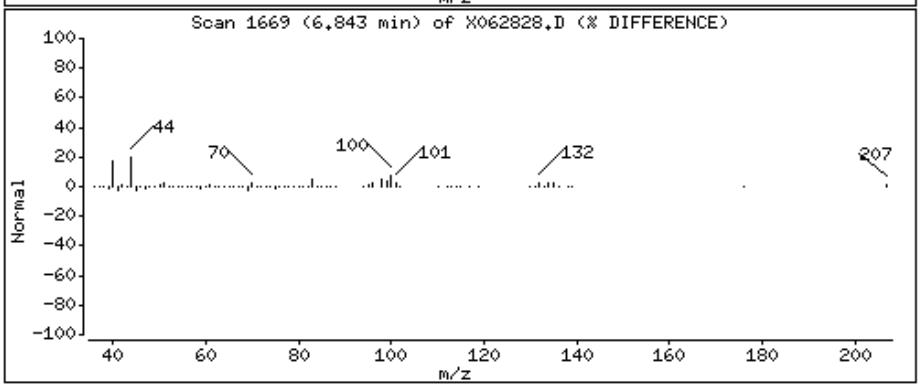
53 1,1,2-Trichloroethane

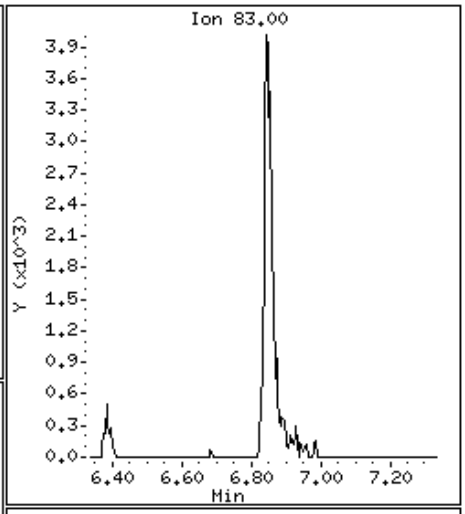
Concentration: 11.38 ug/l

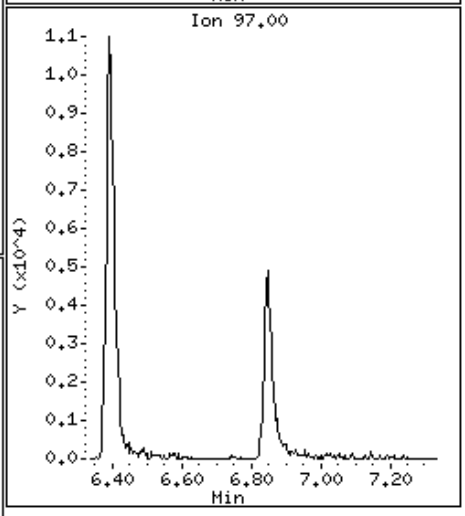












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062828.D

Date : 28-JUN-2023 21:03

Client ID: HS230611812-06

Instrument: voa6.i

Sample Info: HS23061812-06;HS230611812-06;;;

Purge Volume: 5.0

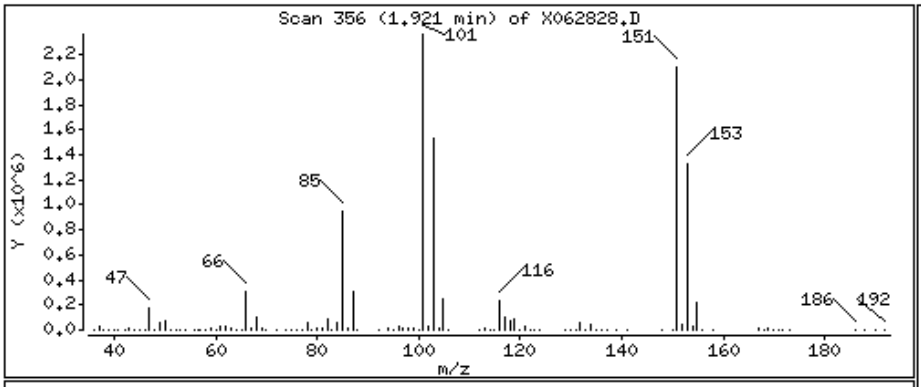
Operator: PC

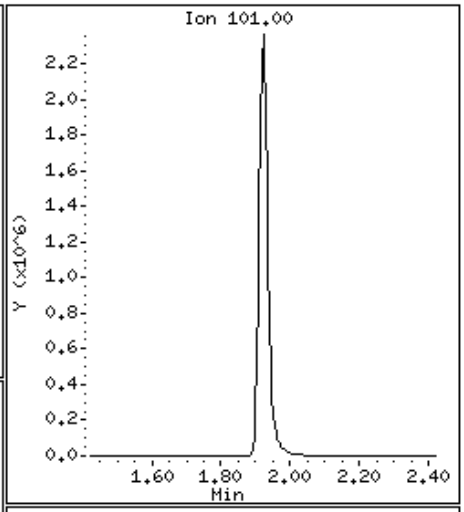
Column phase: DB624

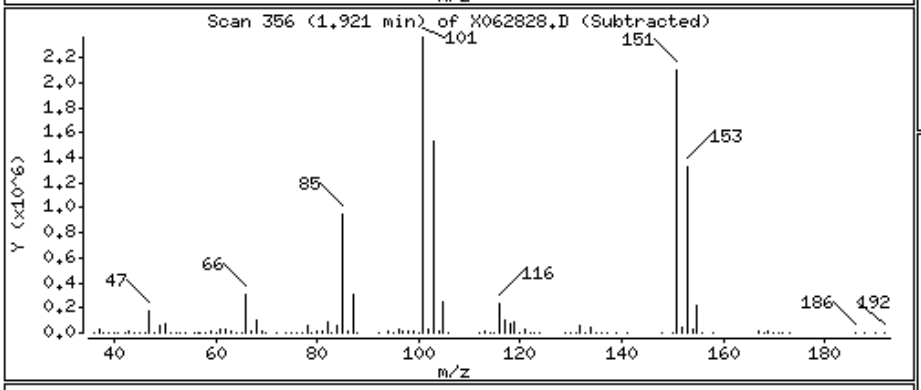
Column diameter: 0.18

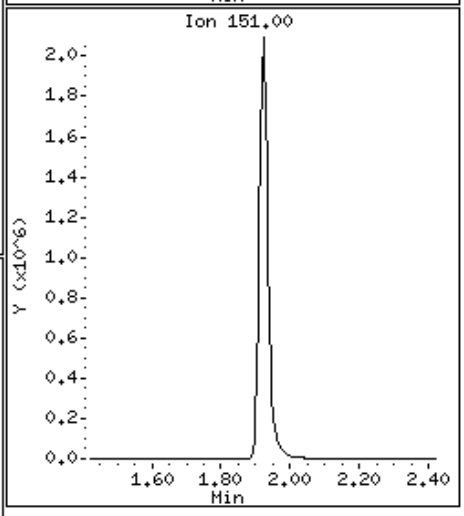
138 Freon TF

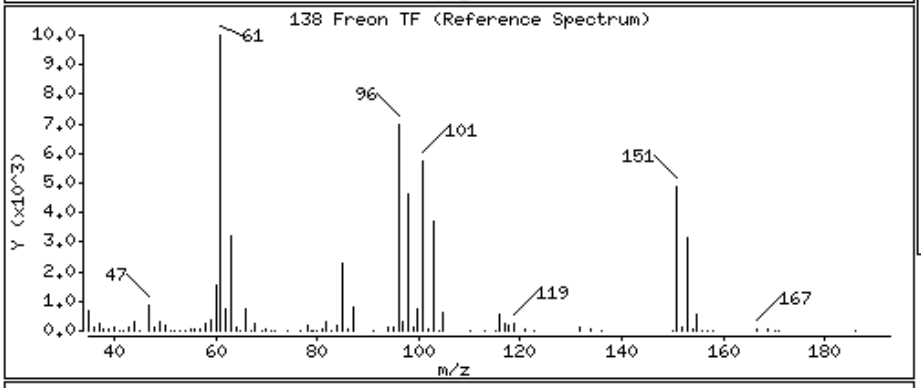
Concentration: 3141.33 ug/l

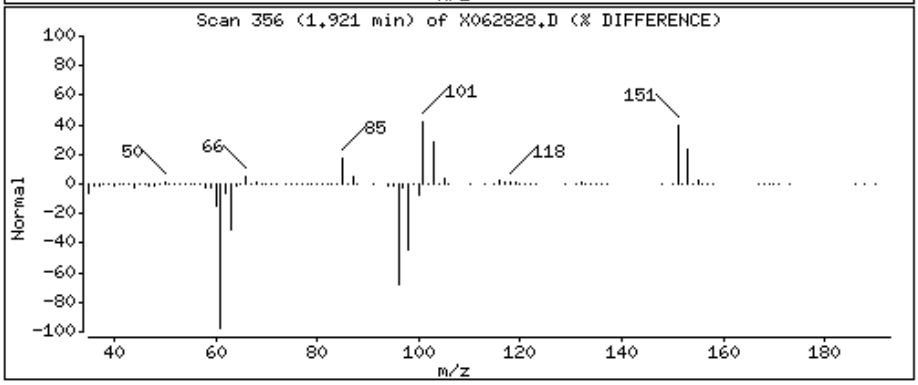












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062828.D
Inj Date : 28-JUN-2023 21:03
InstruID : voa6.i
LabSampID : HS23061812-06

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062829.D Page 1
Report Date: 06-Jul-2023 12:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062829.D
Lab Smp Id: HS23061812-06 Client Smp ID: HS230611812-06
Inj Date : 28-JUN-2023 21:24
Operator : PC Inst ID: voa6.i
Smp Info : HS23061812-06;HS230611812-06;;;
Misc Info : V6;WATER;0;50;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\8260W.m
Meth Date : 06-Jul-2023 12:06 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 27
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.181	4.181	(1.000)	433546	50.0000	
	5 Vinyl Chloride	62	1.149	1.149	(0.275)	3177	0.69776	34.88(a)
	27 cis-1,2-Dichloroethene	96	3.529	3.529	(0.844)	415703	88.7561	4437.80
$	30 Dibromofluoromethane	113	4.099	4.099	(0.980)	177814	45.8959	45.89
	33 1,2-Dichloroethane	62	4.564	4.556	(0.919)	2578	0.51235	25.61(a)
$	35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.070)	174678	41.6537	41.65
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	599278	50.0000	
	38 Trichloroethene	130	5.205	5.209	(1.048)	401784	94.5326	4726.62
*	47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	534467	50.0000	
$	48 Toluene-d8	98	6.385	6.386	(0.833)	702497	51.9887	51.98
$	69 4-Bromofluorobenzene	95	8.691	8.687	(1.133)	244018	46.7290	46.72
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	282445	50.0000	
M	94 1,2-Dichloroethylene (total)	96				415703	88.7561	4437.80
	138 Freon TF	101	1.921	1.921	(0.459)	416977	133.270	6663.49

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01202836

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062829.D

Date : 28-JUN-2023 21:24

Client ID: HS230611812-06

Instrument: voa6.i

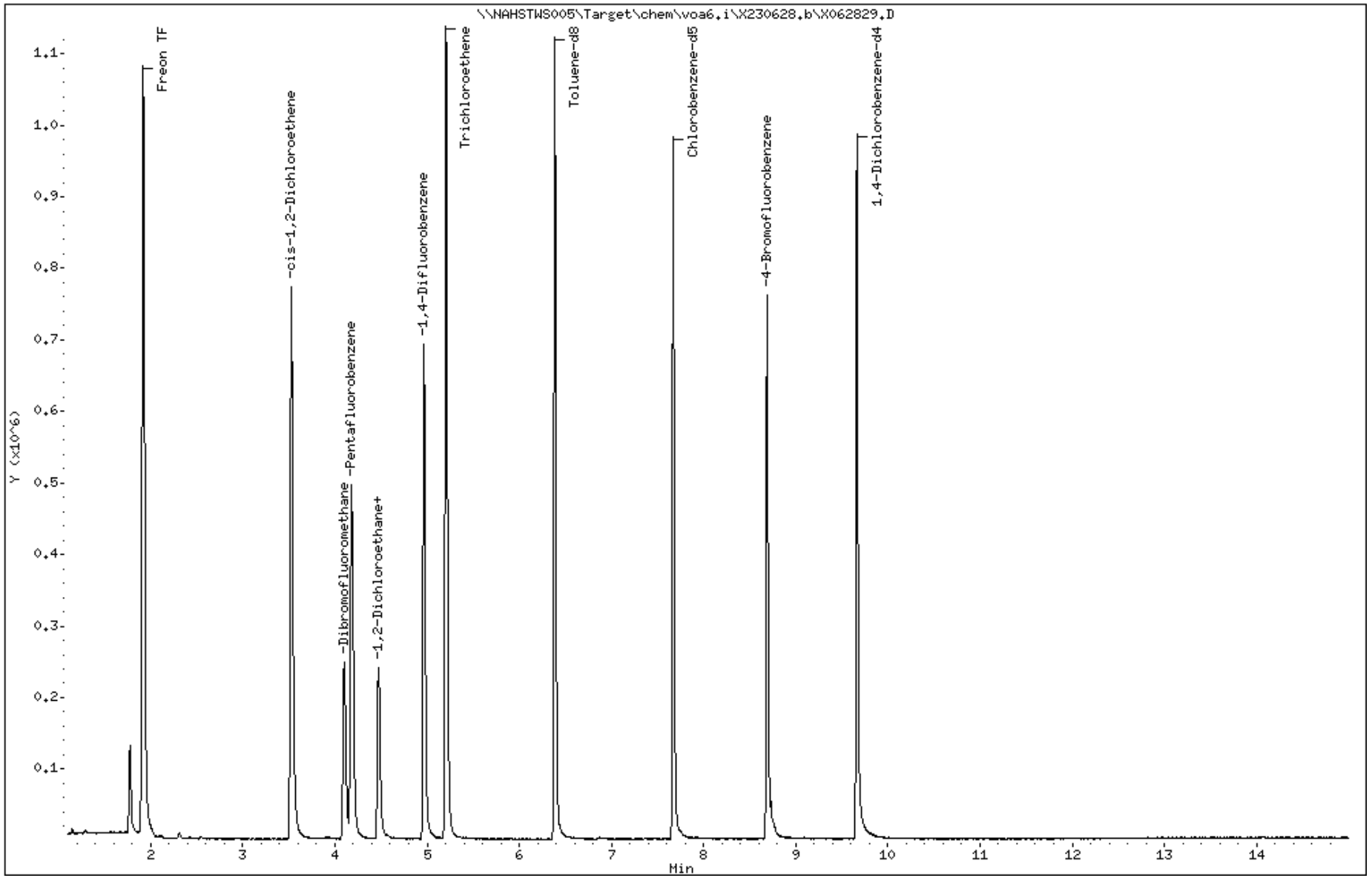
Sample Info: HS23061812-06;HS230611812-06;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062829.D

Date : 28-JUN-2023 21:24

Client ID: HS230611812-06

Instrument: voa6.i

Sample Info: HS23061812-06;HS230611812-06;;;

Purge Volume: 5.0

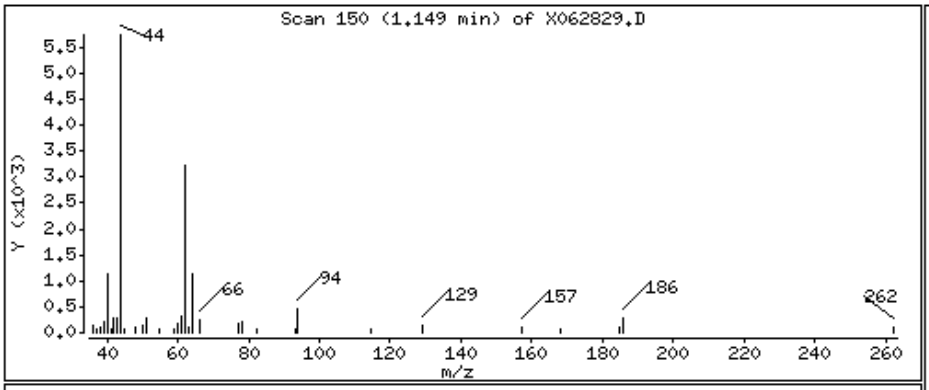
Operator: PC

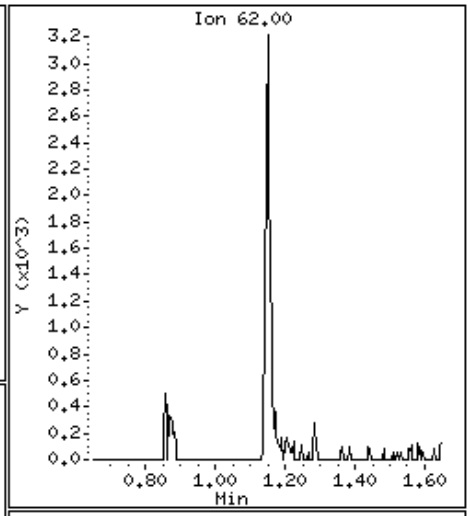
Column phase: DB624

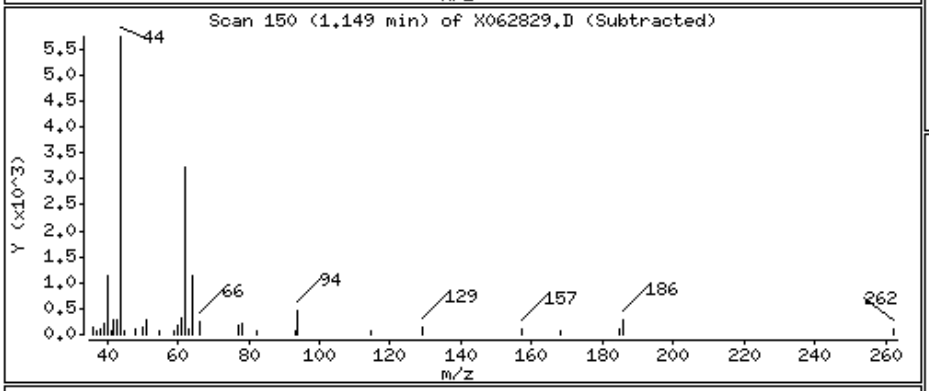
Column diameter: 0.18

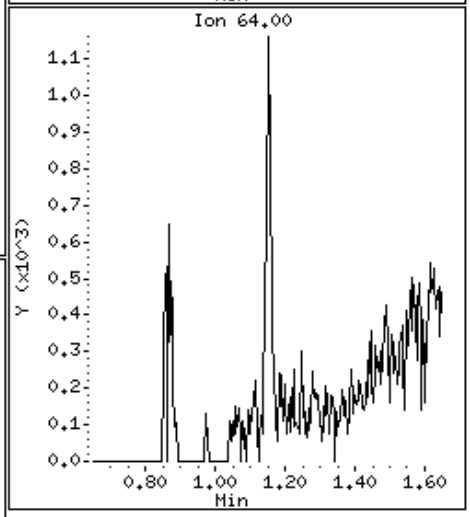
5 Vinyl Chloride

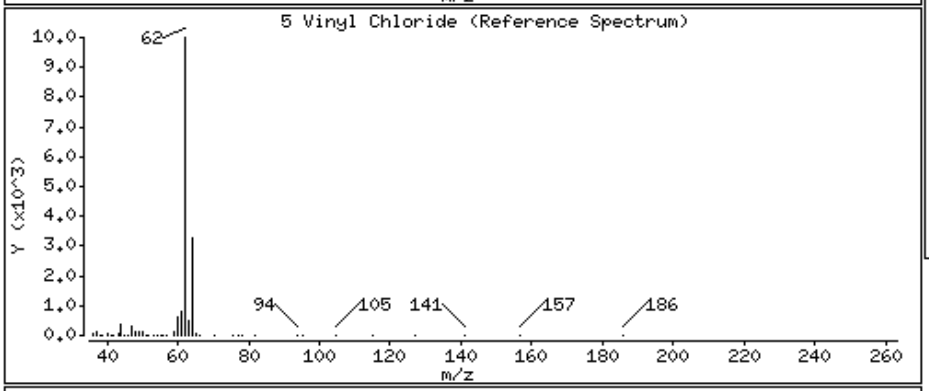
Concentration: 34.88 ug/l

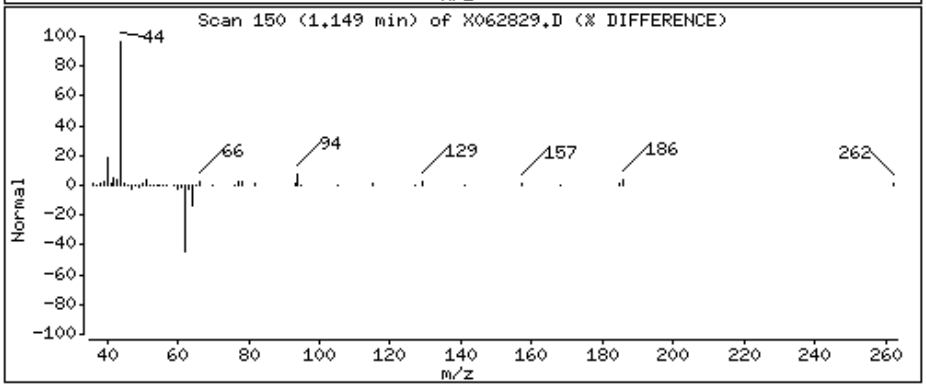












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062829.D Page 3

Date : 28-JUN-2023 21:24

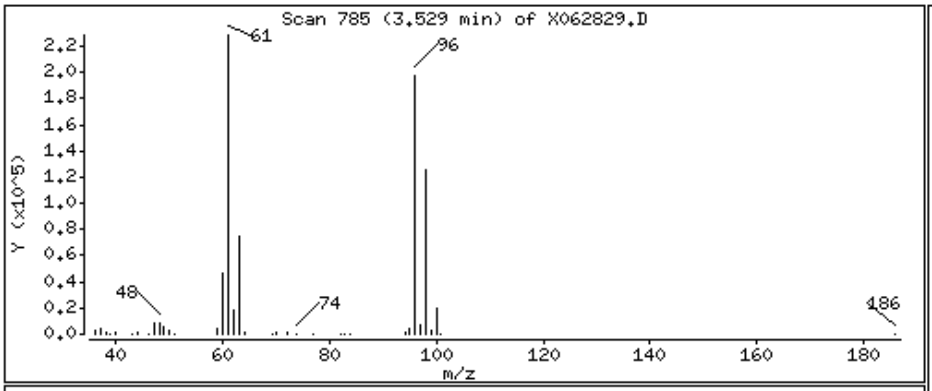
Client ID: HS230611812-06 Instrument: voa6.i

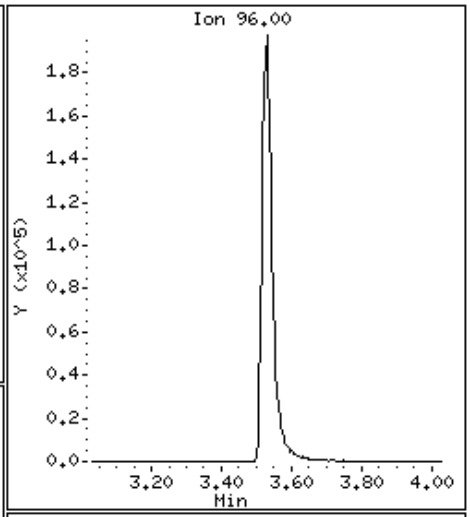
Sample Info: HS23061812-06;HS230611812-06;;;

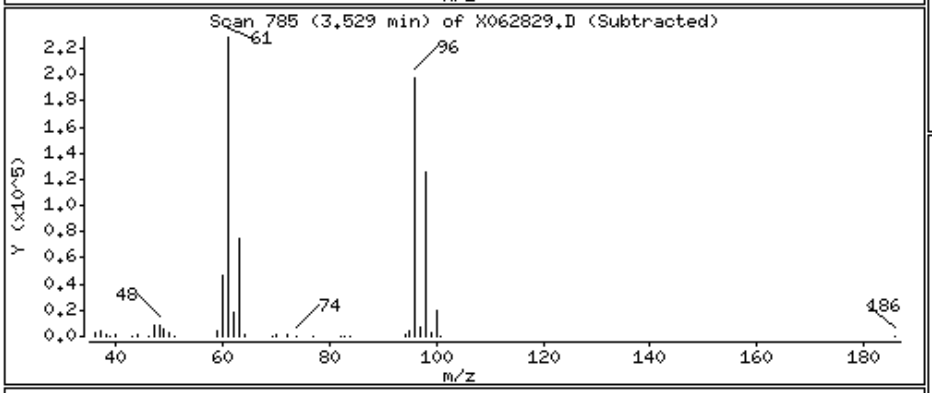
Purge Volume: 5.0 Operator: PC

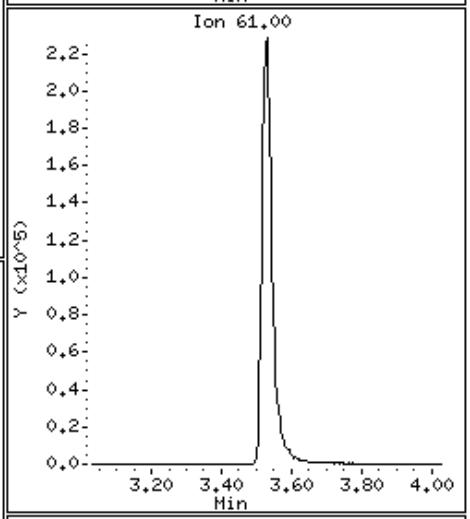
Column phase: DB624 Column diameter: 0.18

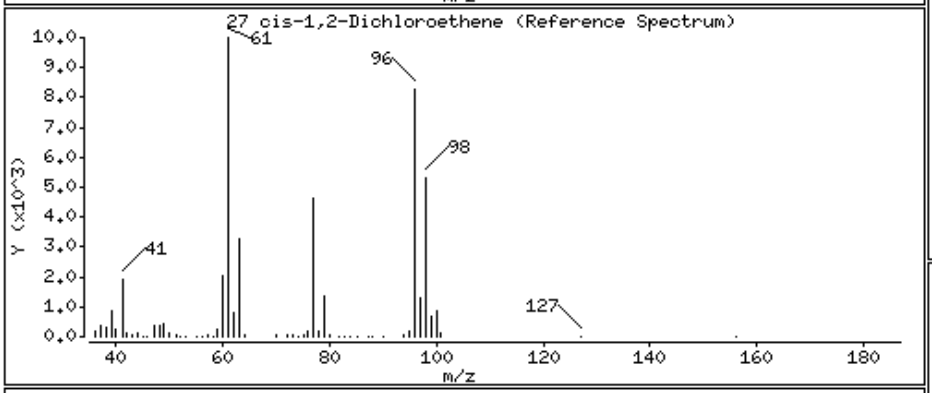
27 cis-1,2-Dichloroethene Concentration: 4437.80 ug/l

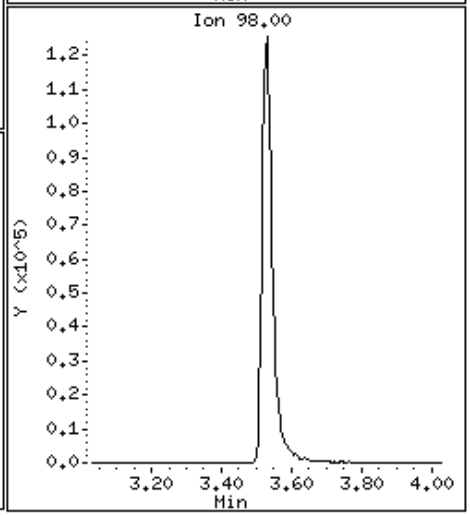


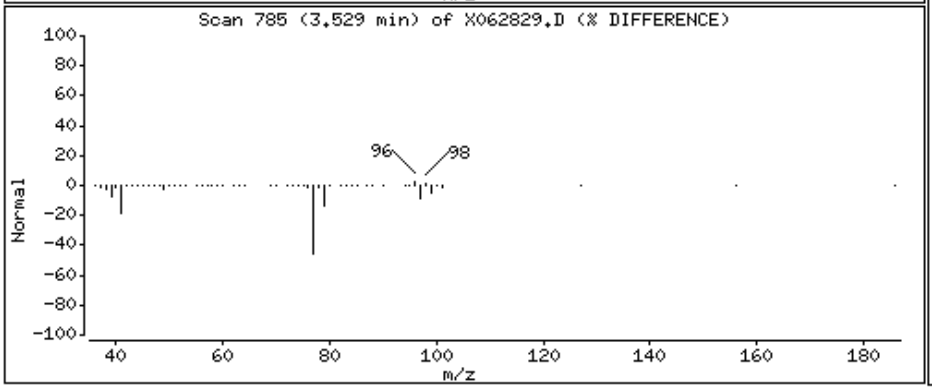












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062829.D

Date : 28-JUN-2023 21:24

Client ID: HS230611812-06

Instrument: voa6.i

Sample Info: HS23061812-06;HS230611812-06;;;

Purge Volume: 5.0

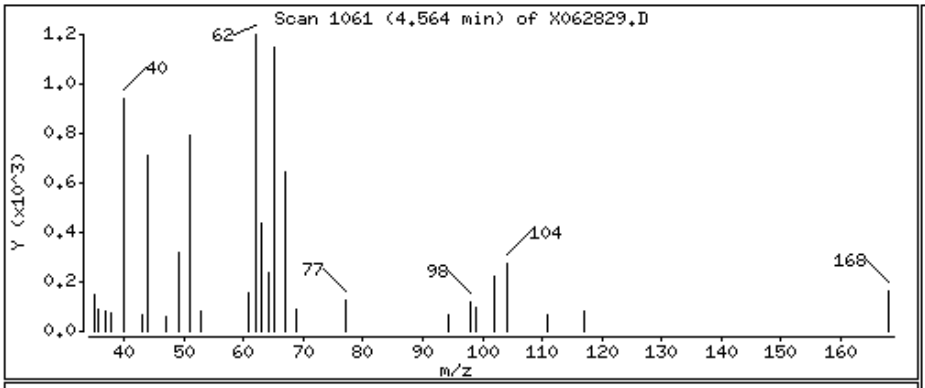
Operator: PC

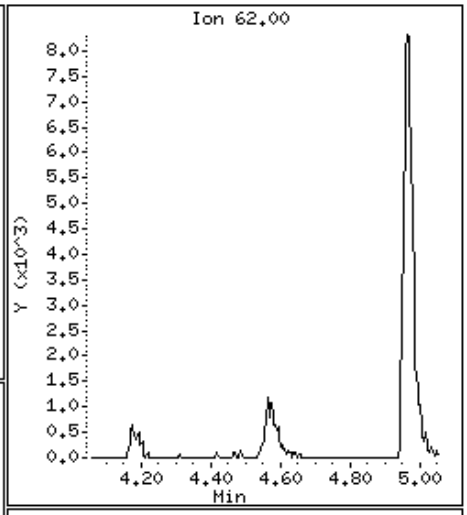
Column phase: DB624

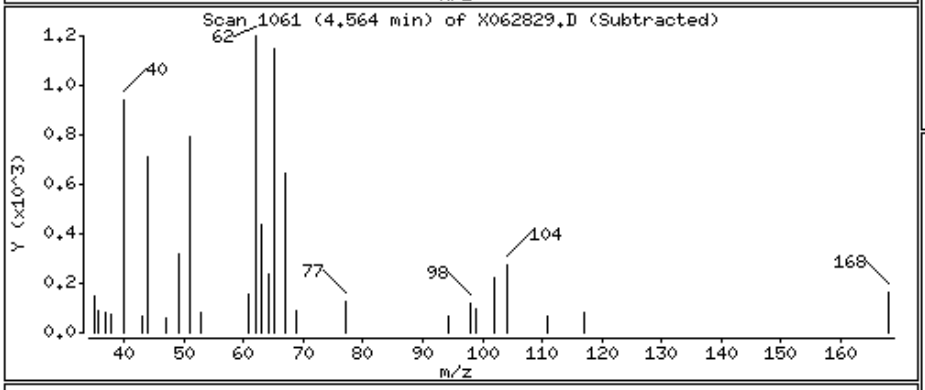
Column diameter: 0.18

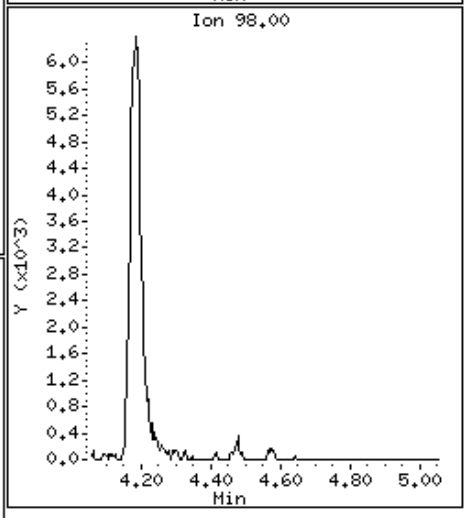
33 1,2-Dichloroethane

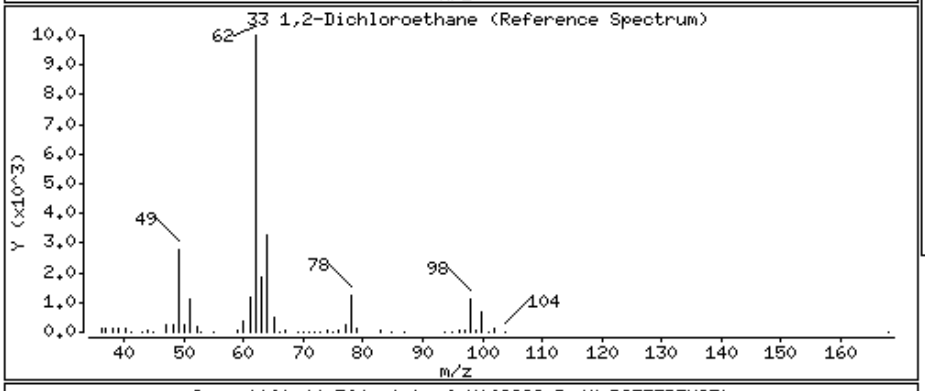
Concentration: 25.61 ug/l

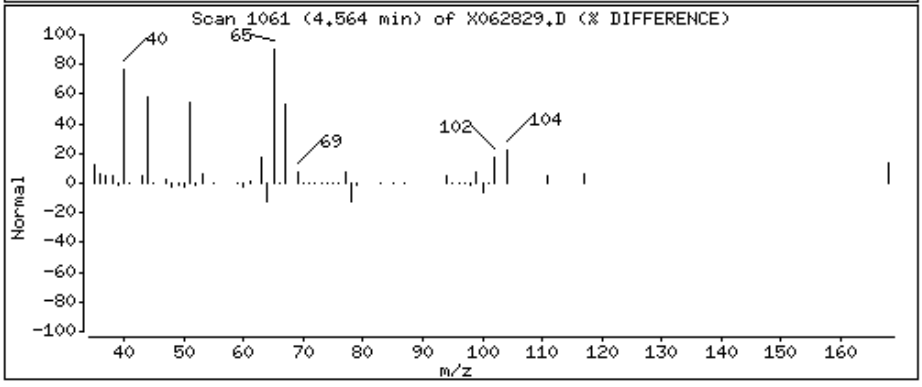












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062829.D Page 5

Date : 28-JUN-2023 21:24

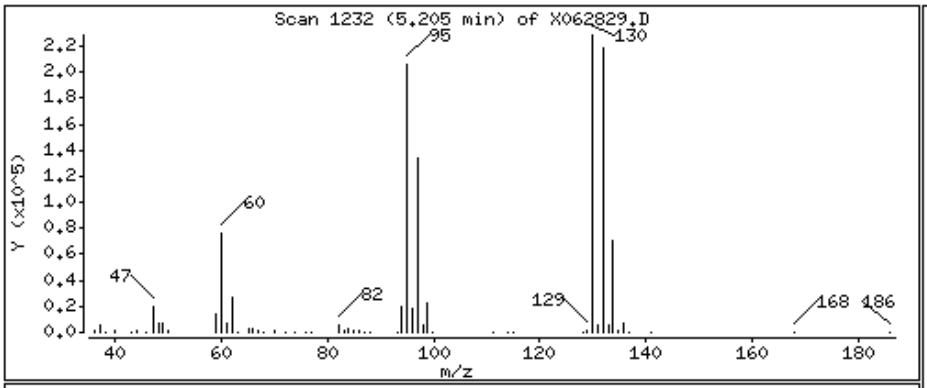
Client ID: HS230611812-06 Instrument: voa6.i

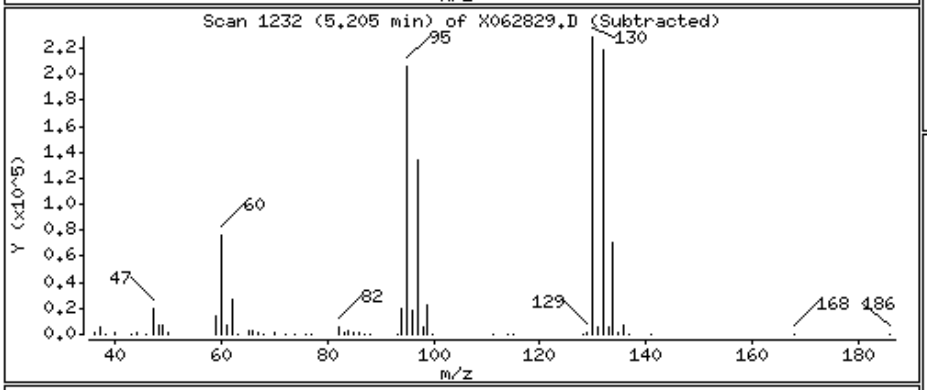
Sample Info: HS23061812-06;HS230611812-06;;;

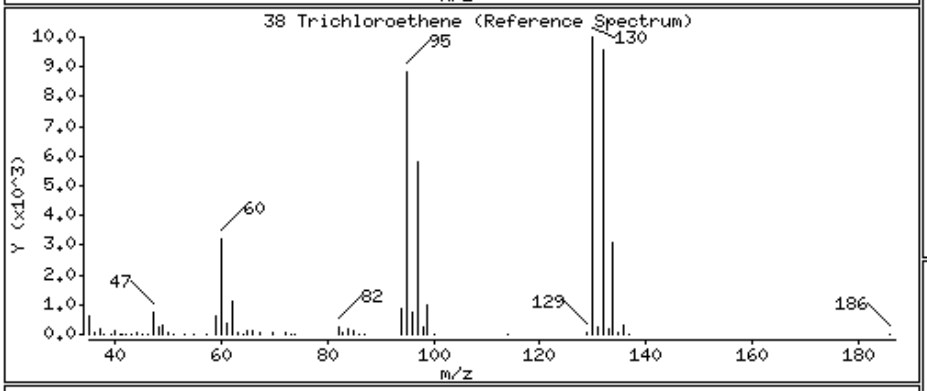
Purge Volume: 5.0 Operator: PC

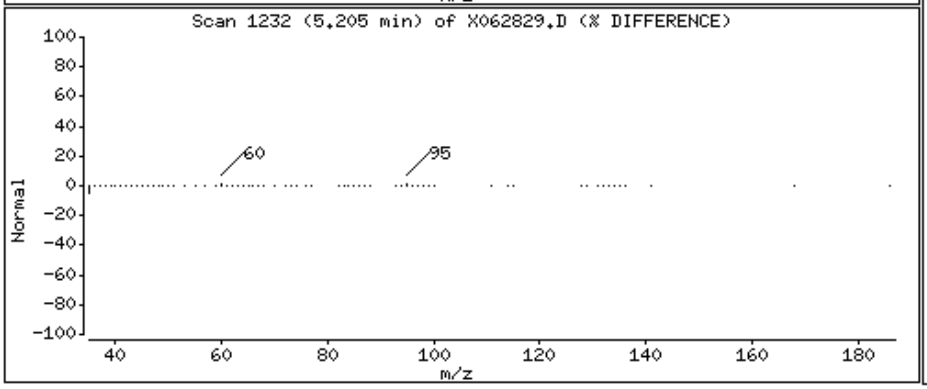
Column phase: DB624 Column diameter: 0.18

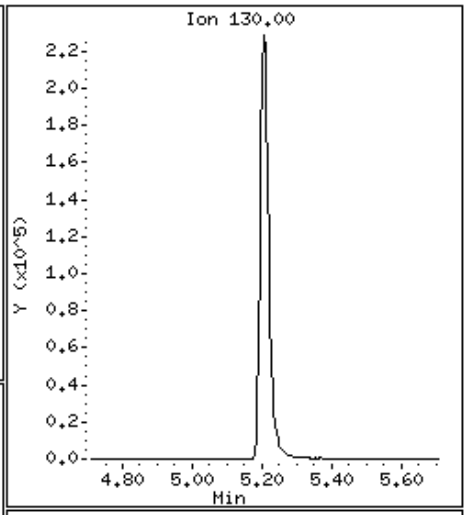
38 Trichloroethene Concentration: 4726.62 ug/l

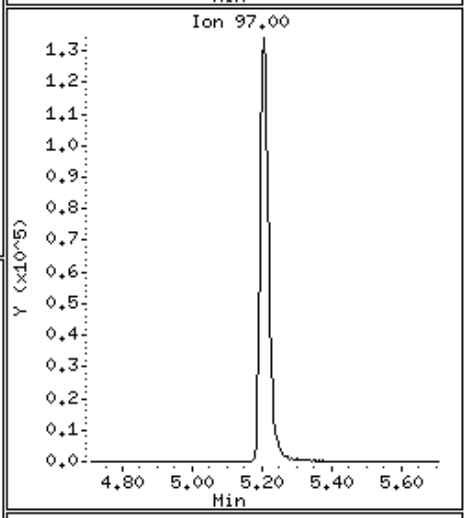


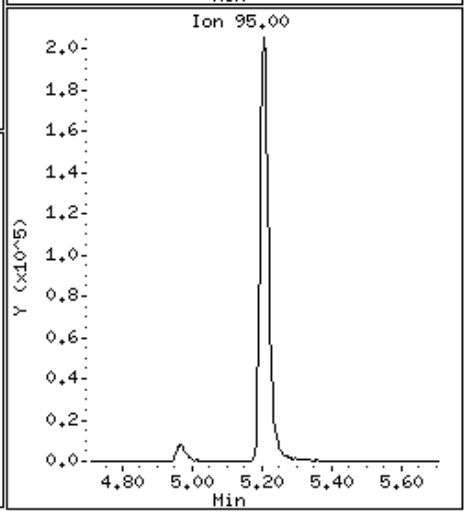












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062829.D Page 6

Date : 28-JUN-2023 21:24

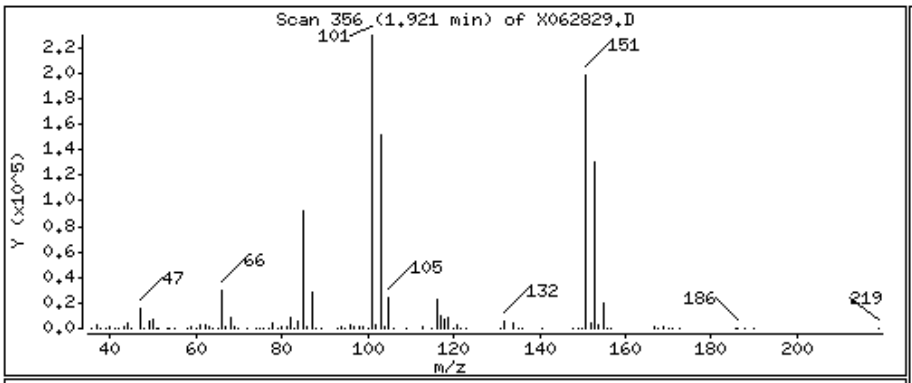
Client ID: HS230611812-06 Instrument: voa6.i

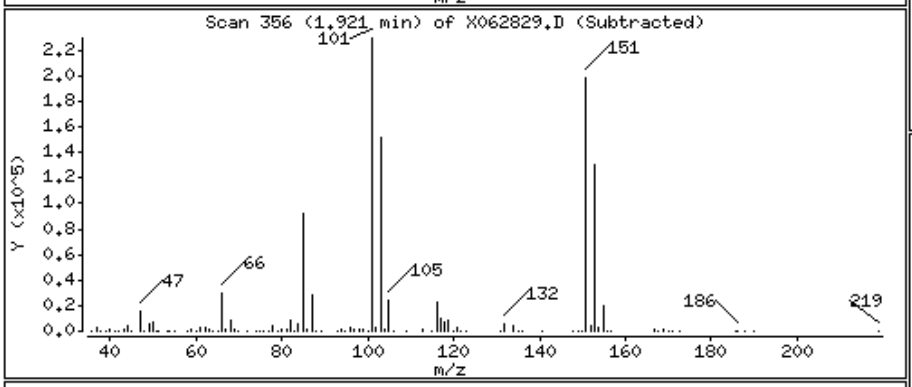
Sample Info: HS23061812-06;HS230611812-06;;;

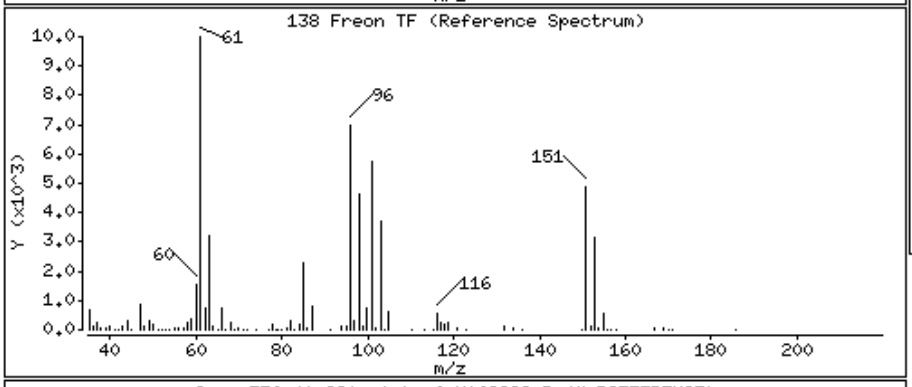
Purge Volume: 5.0 Operator: PC

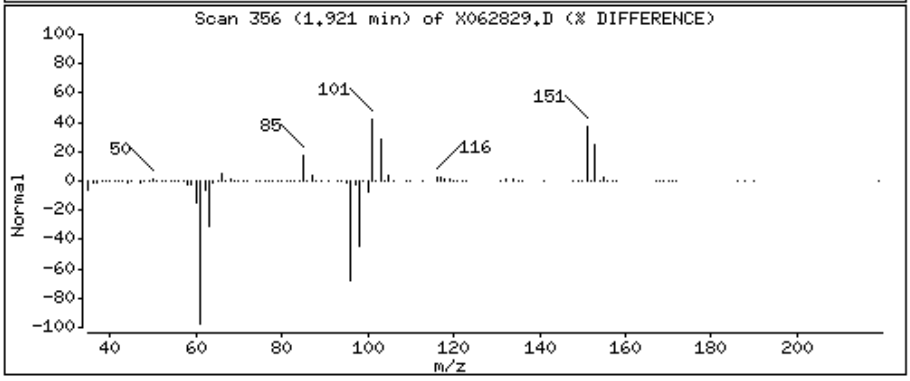
Column phase: DB624 Column diameter: 0.18

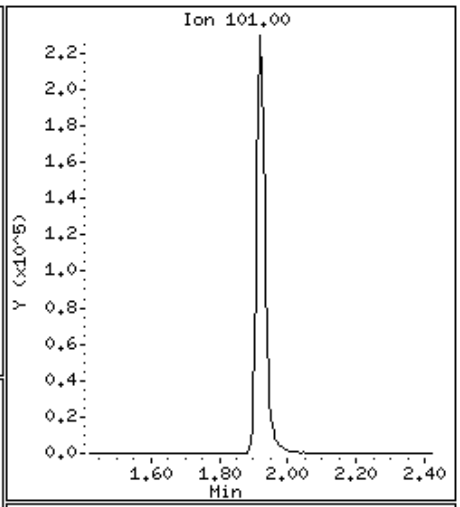
138 Freon TF Concentration: 6663.49 ug/l

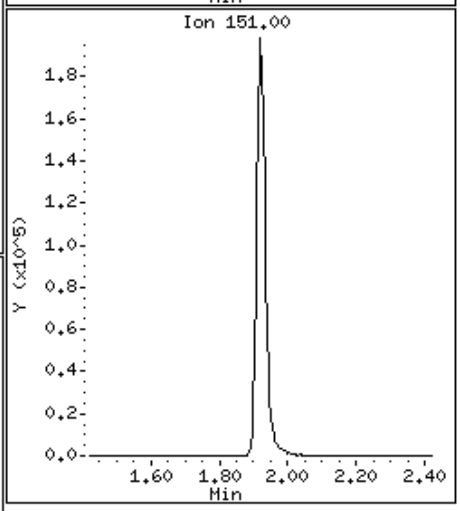












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062829.D
Inj Date : 28-JUN-2023 21:24
InstruID : voa6.i
LabSampID : HS23061812-06

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062830.D Page 1
Report Date: 06-Jul-2023 12:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062830.D
Lab Smp Id: CCV-END Client Smp ID: CCV-END
Inj Date : 28-JUN-2023 21:45
Operator : PC Inst ID: voa6.i
Smp Info : CCV-END;CCV-END;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\8260W.m
Meth Date : 06-Jul-2023 12:07 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.185	4.185	(1.000)	401423	50.0000	
135 1,4-Dioxane	88	5.598	5.598	(1.338)	43520	1000.00	894.59
140 1,3-Butadiene	54	1.171	1.171	(0.280)	133505	50.0000	40.13
25 Methacrylonitrile	41	3.821	3.821	(0.913)	139087	50.0000	41.99
12 Isobutyl Alcohol	43	4.676	4.676	(1.117)	424727	1000.00	811.45
13 Acetonitrile	39	2.206	2.206	(0.527)	152869	500.000	392.62
14 Allyl Chloride	41	2.206	2.206	(0.527)	348940	50.0000	39.63
4 Propionitrile	54	3.653	3.653	(0.873)	214660	500.000	442.16
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	55081	50.0000	39.95
194 Acetaldehyde	44	1.220	1.220	(0.292)	44758	200.000	212.07
23 Chloroprene	53	1.778	1.778	(0.425)	54949	50.0000	41.18(M)
130 Ethyl Acetate	43	3.660	3.660	(0.875)	156582	50.0000	38.26
40 Methyl Methacrylate	41	5.606	5.606	(1.339)	134811	50.0000	43.38
49 Ethyl Methacrylate	69	6.708	6.708	(1.350)	179801	50.0000	41.79
131 Methyl Acrylate	55	3.690	3.690	(0.882)	154354	50.0000	47.47
136 n-Hexane	57	2.775	2.775	(0.663)	155865	50.0000	42.74
139 Diethyl ether	59	1.763	1.763	(0.421)	109614	50.0000	43.58
156 Diisopropyl ether	45	3.004	3.004	(0.718)	503068	50.0000	42.49
166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	760781	50.0000	48.78
2 Dichlorodifluoromethane	85	0.980	0.980	(0.234)	123908	50.0000	35.93

3 Chloromethane	50	1.085	1.085 (0.259)	172154	50.0000	40.76
5 Vinyl Chloride	62	1.152	1.152 (0.275)	170321	50.0000	40.40

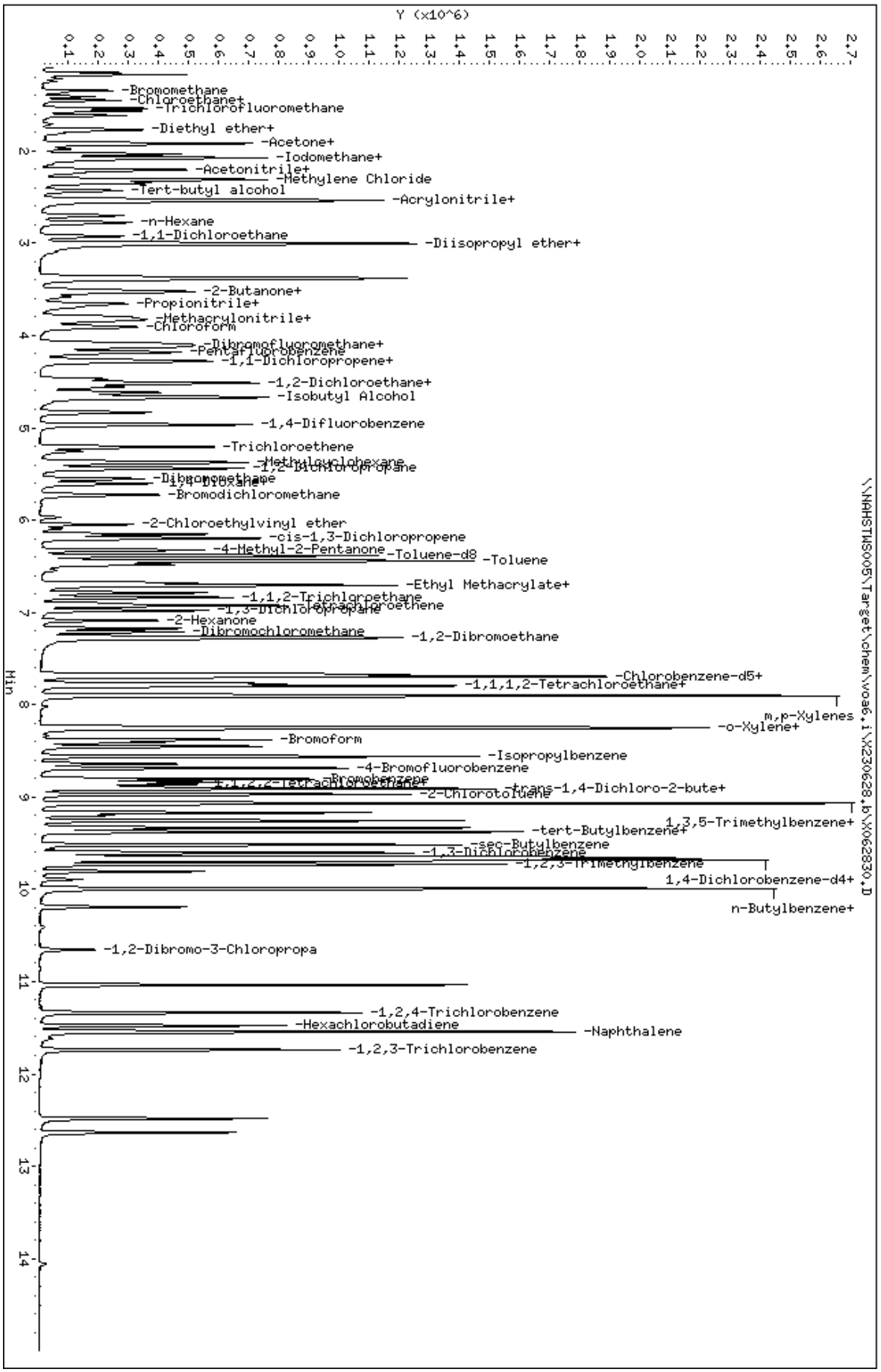
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	6 Bromomethane	94	1.347	1.347	(0.322)	112102	50.0000	46.32
	7 Chloroethane	64	1.411	1.411	(0.337)	112457	50.0000	43.63
	8 Trichlorofluoromethane	101	1.568	1.568	(0.375)	213111	50.0000	42.53
	9 Acrolein	56	1.452	1.452	(0.347)	20954	100.000	84.12
	10 Acetone	43	1.977	1.977	(0.472)	74593	100.000	71.18
	11 1,1-Dichloroethene	96	1.921	1.921	(0.459)	133331	50.0000	42.42
	15 Iodomethane	142	2.033	2.033	(0.486)	487353	100.000	93.70
	16 Acrylonitrile	53	2.539	2.539	(0.607)	111802	100.000	87.74
	17 Methylene Chloride	84	2.311	2.311	(0.552)	183888	50.0000	41.42
	18 Methyl tert-butyl ether	73	2.539	2.539	(0.607)	469277	50.0000	42.78
	19 Carbon Disulfide	76	2.074	2.074	(0.496)	884257	100.000	79.01
	20 trans-1,2-Dichloroethene	96	2.536	2.536	(0.606)	161974	50.0000	43.07
	21 Vinyl Acetate	43	3.000	3.000	(0.717)	856742	100.000	85.35
	22 1,1-Dichloroethane	63	2.925	2.925	(0.699)	278067	50.0000	41.04
	24 2-Butanone	43	3.578	3.578	(0.855)	107183	100.000	81.13
	26 2,2-Dichloropropane	77	3.510	3.510	(0.839)	210129	50.0000	39.30
	27 cis-1,2-Dichloroethene	96	3.529	3.529	(0.843)	191975	50.0000	44.26
	28 Chloroform	83	3.908	3.908	(0.934)	299372	50.0000	41.05
	29 Bromochloromethane	128	3.795	3.795	(0.907)	101103	50.0000	43.75
$	30 Dibromofluoromethane	113	4.102	4.102	(0.980)	164108	50.0000	45.74
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.976)	244137	50.0000	41.42
	32 1,1-Dichloropropene	75	4.282	4.282	(0.862)	222663	50.0000	44.27
	33 1,2-Dichloroethane	62	4.556	4.556	(0.917)	208875	50.0000	41.45
	34 Carbon Tetrachloride	117	4.264	4.264	(0.858)	210810	50.0000	43.58
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.068)	154331	50.0000	39.70
*	36 1,4-Difluorobenzene	114	4.968	4.968	(1.000)	600138	50.0000	
	37 Benzene	78	4.515	4.515	(0.909)	702005	50.0000	45.47
	38 Trichloroethene	130	5.208	5.208	(1.048)	204531	50.0000	48.05
	39 Bromodichloromethane	83	5.726	5.726	(1.152)	234479	50.0000	42.93
	41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.217)	124634	100.000	84.34
	42 1,2-Dichloropropane	63	5.437	5.437	(1.094)	181178	50.0000	44.71
	44 Dibromomethane	93	5.553	5.553	(1.118)	114002	50.0000	44.81
	45 4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	299259	100.000	81.80
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.238)	295919	50.0000	43.95
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	566326	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	671413	50.0000	46.89
	50 Toluene	91	6.445	6.445	(0.841)	775724	50.0000	46.65
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.344)	247797	50.0000	43.98
	52 2-Hexanone	43	7.086	7.086	(0.924)	203286	100.000	83.18
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	144918	50.0000	44.74
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	292474	50.0000	44.65
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	212234	50.0000	46.23
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	163003	50.0000	47.67
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	189618	50.0000	45.80
	58 1-Chlorohexane	55	7.694	7.694	(1.548)	153759	50.0000	42.13
	59 Chlorobenzene	112	7.690	7.690	(1.003)	534897	50.0000	47.01
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	196983	50.0000	46.43
	61 Ethylbenzene	106	7.799	7.799	(1.017)	272380	50.0000	46.47
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	688444	100.000	95.24
	63 o-Xylene	106	8.237	8.237	(1.074)	330489	50.0000	45.82
	64 Styrene	104	8.256	8.256	(1.077)	575105	50.0000	48.40
	66 Bromoform	173	8.410	8.410	(1.097)	151485	50.0000	47.33

67	Isopropylbenzene	105	8.560	8.560 (1.116)	821732	50.0000	46.09
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837 (0.915)	244963	50.0000	42.46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	279969	50.0000	50.64
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	328091	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	173407	50.0000	41.91
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	954804	50.0000	44.22
	74 Bromobenzene	156	8.803	8.803	(0.911)	250286	50.0000	46.80
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	716951	50.0000	45.25
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	592286	50.0000	43.19
	77 4-Chlorotoluene	91	9.069	9.069	(0.939)	680834	50.0000	44.51
	78 tert-Butylbenzene	119	9.332	9.332	(0.966)	601510	50.0000	45.57
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	721519	50.0000	45.14
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	837665	50.0000	45.00
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	749686	50.0000	46.00
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	444141	50.0000	46.64
	84 1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	463051	50.0000	45.43
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	636502	50.0000	45.85
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	444967	50.0000	47.09
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	45539	50.0000	48.37
	90 1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	318009	50.0000	48.38
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	142852	50.0000	48.42
	92 Naphthalene	128	11.540	11.540	(1.194)	718021	50.0000	48.53
	93 1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	299409	50.0000	49.51
M	94 1,2-Dichloroethylene (total)	96				353949	100.000	(a)
	141 Cyclohexane	56	4.125	4.125	(0.986)	219901	50.0000	42.97
	138 Freon TF	101	1.921	1.921	(0.459)	132749	50.0000	47.58
	147 Methylcyclohexane	55	5.381	5.381	(1.083)	397193	50.0000	47.35
	146 Methyl Acetate	43	2.236	2.236	(0.534)	94144	50.0000	39.62
	148 Tert-Butyl alcohol	59	2.431	2.431	(0.581)	310637	1000.00	753.57
	149 Isopropyl Alcohol	45	2.097	2.097	(0.501)	170983	1000.00	751.46

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\NAHSTMS005\Target\chem\voa6.i\X230628.b\X062830.D
Date : 28-JUN-2023 21:45
Client ID: CCV-END
Sample Info: CCV-END,CCV-END,2,,
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230628.b\X062830.D
Inj Date : 28-JUN-2023 21:45
InstruID : voa6.i
LabSampID : CCV-END

Chloroprene (126-99-8)

Reason Code:

BEFORE

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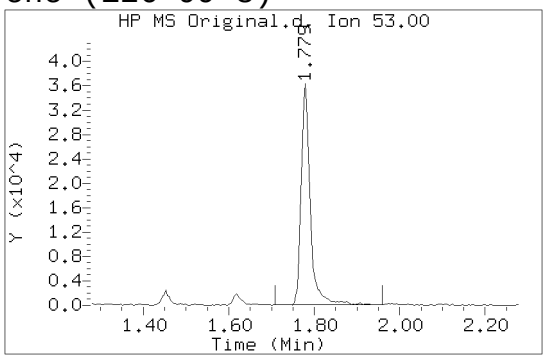
HEIGHT
36216
06-Jul-2023
12:06
linh
pham



AFTER

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12:06
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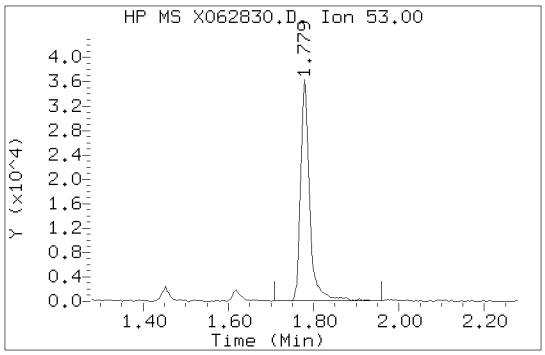

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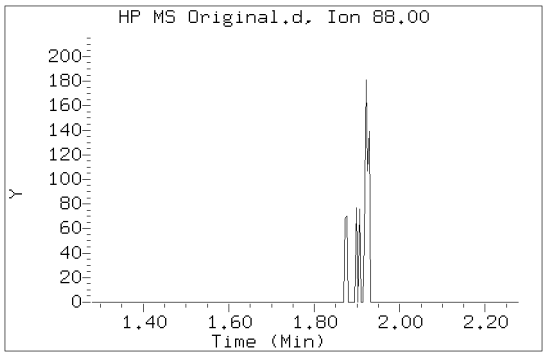

AFTER

MASS
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06-Jul-2023
12:06
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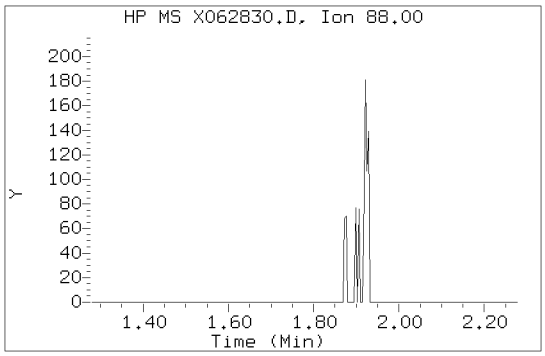


01202850

right solutions.
right partner.

Raw Data VOA9 437296

Volatiles by EPA 8260

Workorder

HS23061812

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/07/2023

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\U230606.b\U060601.D Page 1
Report Date: 06-Jun-2023 11:16

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060601.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 06-JUN-2023 10:53
Operator : PC Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230606.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: NAHSTW7051

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	
9.197	9.180	(0.000)	95	136448			0.00- 100.00	100.00
9.197	9.180	(0.000)	50	25960			15.00- 40.00	19.03
9.197	9.180	(0.000)	75	63728			30.00- 60.00	46.70
9.197	9.180	(0.000)	96	9360			5.00- 9.00	6.86
9.197	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.197	9.180	(0.000)	174	125696			50.00- 0.00	92.12
9.197	9.180	(0.000)	175	10925			5.00- 9.00	8.69
9.197	9.180	(0.000)	176	121928			95.00- 101.00	97.00
9.197	9.180	(0.000)	177	8371			5.00- 9.00	6.87

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.03
75	30.00 - 60.00% of mass 95	46.70
96	5.00 - 9.00% of mass 95	6.86
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	92.12
175	5.00 - 9.00% of mass 174	8.01 (8.69)
176	95.00 - 101.00% of mass 174	89.36 (97.00)
177	5.00 - 9.00% of mass 176	6.13 (6.87)

Data File: U060601.D
Spectrum: Scan 2294 (9.19)
Location of Maximum: 95.00
Number of points: 183

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1606	78.90	3626	126.90	173	180.50	63
37.00	7004	79.90	1138	127.90	637	189.70	63
38.00	6056	80.90	3614	128.80	349	190.10	90
39.10	2292	81.90	1010	129.90	611	190.90	76
39.90	605	83.70	86	131.00	267	191.70	102
40.60	238	84.40	139	131.90	136	193.30	85
41.50	249	85.10	99	133.00	93	193.80	111
42.40	145	86.00	358	134.00	60	194.90	61
43.10	257	86.90	5506	134.90	188	195.70	59
43.90	1550	87.90	5724	135.50	114	199.00	61
45.00	1049	89.70	70	136.10	156	201.00	76
46.20	308	90.90	483	137.00	446	204.10	65
47.00	2170	92.00	3718	138.70	149	206.80	96
47.80	1172	93.00	5572	139.60	225	214.00	57
49.00	5597	94.00	17248	140.80	1519	215.30	57
50.00	25960	95.00	136448	141.80	216	217.30	81
51.00	8122	96.00	9360	142.90	1809	219.80	80
52.10	549	97.00	242	143.90	185	221.90	82
53.20	314	98.10	120	144.90	427	226.10	60
53.90	188	99.50	83	145.90	283	227.70	56
54.20	214	100.10	128	146.90	135	233.00	105
54.80	516	101.30	73	147.90	335	241.30	67
56.00	2033	102.80	171	148.90	169	243.30	72
57.00	3459	103.90	720	149.80	365	244.40	79
57.90	375	104.80	244	151.80	188	246.00	69
59.00	221	105.80	554	152.60	215	247.20	66
60.00	1229	107.10	182	153.80	221	253.10	56
61.00	6314	107.60	97	154.80	409	258.80	62
62.00	6603	108.20	76	155.90	107	264.10	94
63.00	5015	109.70	198	157.00	385	264.50	57
64.00	798	111.00	182	158.70	185	265.40	67
64.90	849	111.60	225	160.20	116	278.00	50
65.80	161	112.70	159	161.10	194	283.30	85
66.80	415	113.00	170	161.60	65	284.10	92
68.00	14015	114.80	234	166.70	55	286.60	57
69.00	13768	115.90	673	168.00	87	287.60	52
70.00	1246	116.90	876	169.10	89	295.90	52
70.80	262	117.80	546	169.60	59	300.90	71
71.30	260	118.80	825	170.30	103	302.50	52
72.10	826	119.90	99	171.00	262	320.40	86
73.00	6098	120.40	70	172.00	1169	328.50	66
74.00	20912	121.70	115	173.90	125696	330.30	64
75.00	63728	122.50	79	175.00	10925	339.30	78
76.00	6105	123.50	138	175.90	121928	346.10	69
76.90	843	124.80	115	176.90	8371	349.50	59

77.90	770	125.60	102	177.90	233		

Data File: \\nahstws005\target\chem\voa9.i\u230606.b\u060601.d Page 1

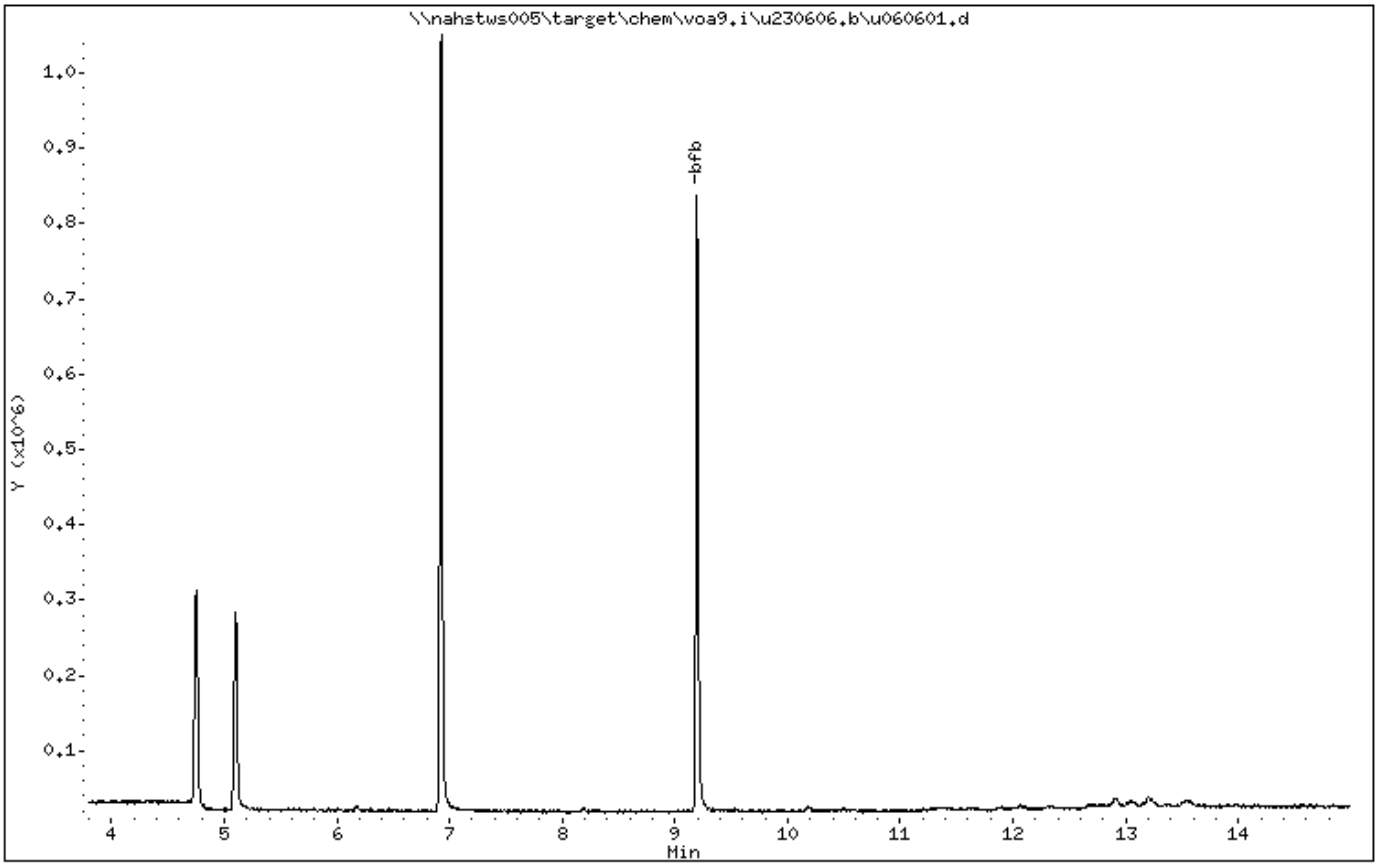
Date : 06-JUN-2023 10:53

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



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Inj Date : 06-JUN-2023 10:53
InstruID : VOA9.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060602.D Page 1
Report Date: 13-Jun-2023 13:00

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060602.D
Lab Smp Id: VSTD000.25 Client Smp ID: VSTD000.25
Inj Date : 06-JUN-2023 11:15
Operator : PC Inst ID: VOA9.i
Smp Info : VSTD000.25;VSTD000.25;1;1;
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
Meth Date : 13-Jun-2023 13:00 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 13:50 Cal File: U060608.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

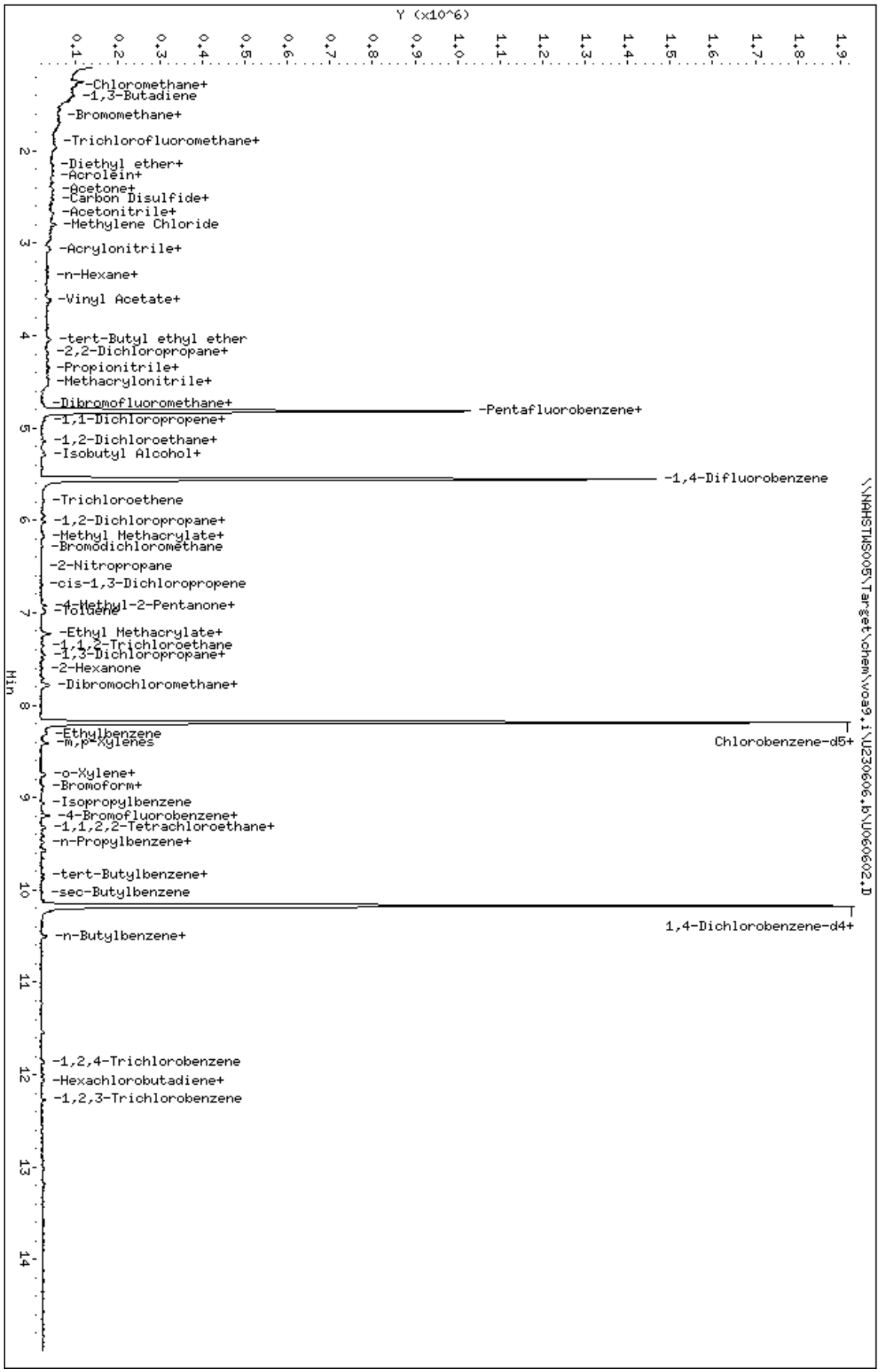
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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)	758075	50.0000	
	15 Iodomethane	142	2.476	2.476	(0.514)	1709	0.50000	10.21(T)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	2648	0.25000	0.73(a)
$	30 Dibromofluoromethane	113	4.751	4.751	(0.987)	2358	0.25000	0.05(a)
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.059)	2464	0.25000	(a)
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	1141877	50.0000	
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	2552	0.25000	2.12(a)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	1042568	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	9480	0.25000	0.40(a)
	51 trans-1,3-Dichloropropene	75	7.207	7.207	(1.298)	1508	0.25000	2.17(a)
	58 1-Chlorohexane	55	8.185	8.185	(1.474)	10231	0.25000	1.74(a)
$	69 4-Bromofluorobenzene	95	9.197	9.197	(1.124)	6043	0.25000	(a)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	519246	50.0000	
M	94 1,2-Dichloroethylene (total)	96				4023	0.50000	(a)
	141 Cyclohexane	56	4.815	4.815	(1.000)	12882	0.25000	1.60(a)
	140 1,3-Butadiene	54	1.404	1.404	(0.292)	1956	0.25000	0.27(a)
	145 alpha-Methylstyrene	118	9.760	9.760	(0.959)	2265	0.25000	3.75(a)
	162 Butyl acrylate	55	8.736	8.736	(1.067)	4785	0.25000	0.38(a)
	203 2-Ethylhexyl Acrylate	55	12.046	12.046	(1.184)	2128	0.25000	2.17(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTMS005\Target\chem\voa9.i\U230606.b\U060602.D
Date : 06-JUN-2023 11:15
Client ID: VSTD000.25
Sample Info: VSTD000.25;VSTD000.25;1;1;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060602.D
Inj Date : 06-JUN-2023 11:15
InstruID : VOA9.i
LabSampID : VSTD000.25

Bromodichloromethane (75-27-4)

Reason Code:

BEFORE
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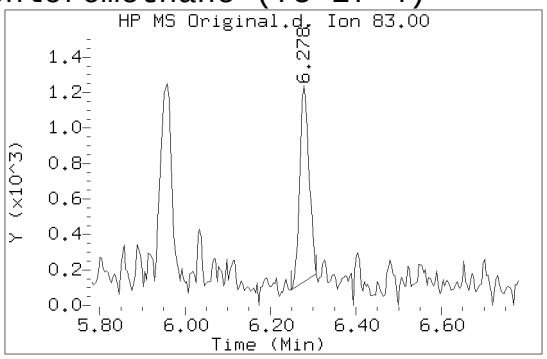
AREA
1696
HEIGHT
1106
08-Jun-2023
14:56
linh
pham



AFTER
MASS
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AREA
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HEIGHT
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13-Jun-2023
13:00
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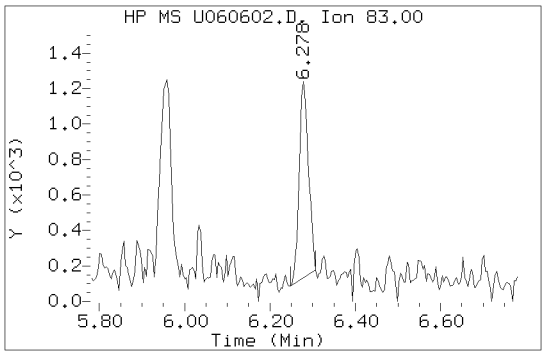

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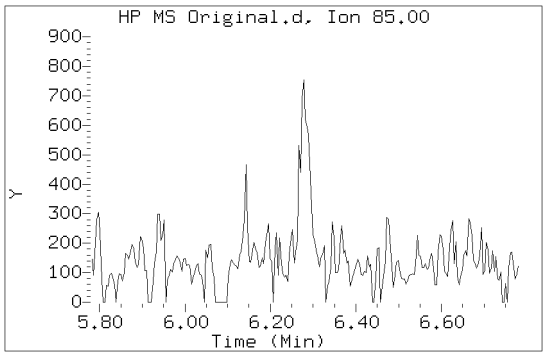

AFTER
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13-Jun-2023
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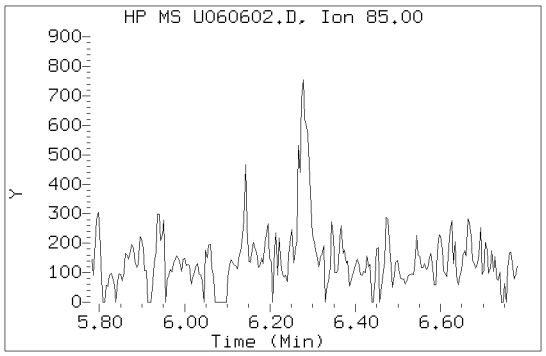

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08-Jun-2023
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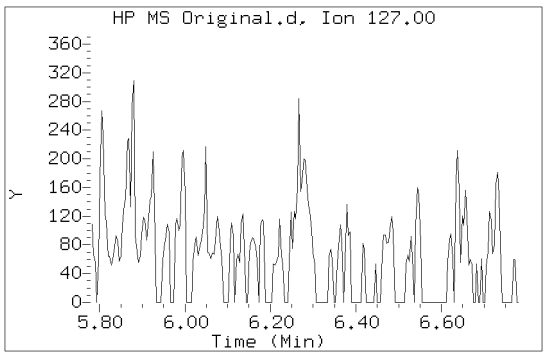

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13-Jun-2023
13:00
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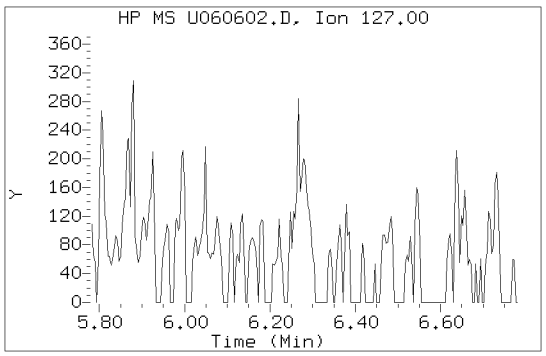

1,4-Dioxane ()

Reason Code:

BEFORE
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AREA
1694
HEIGHT
2126
08-Jun-2023
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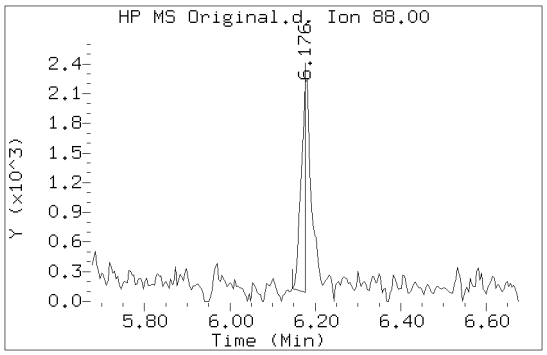
linh
pham



AFTER
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13-Jun-2023
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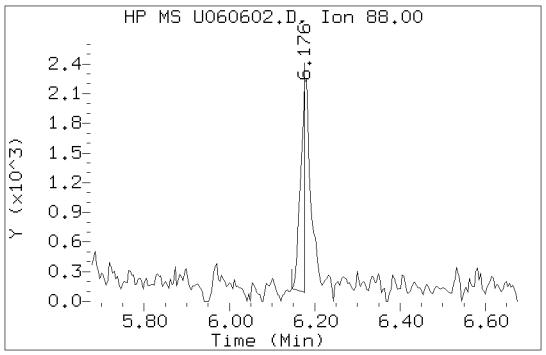

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Inj Date : 06-JUN-2023 11:15
InstruID : VOA9.i
LabSampID : VSTD000.25

1,4-Dioxane ()

Reason Code:

BEFORE

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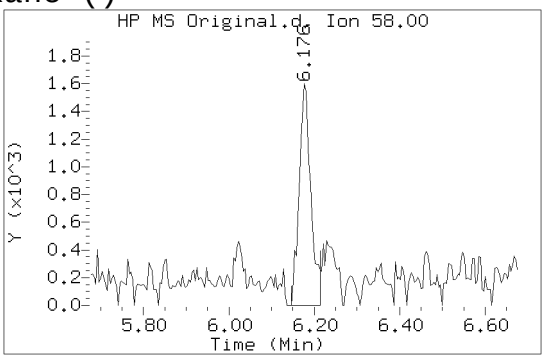
HEIGHT
1600
08-Jun-2023
14:56
linh
pham



AFTER

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1600
13-Jun-2023
13:00
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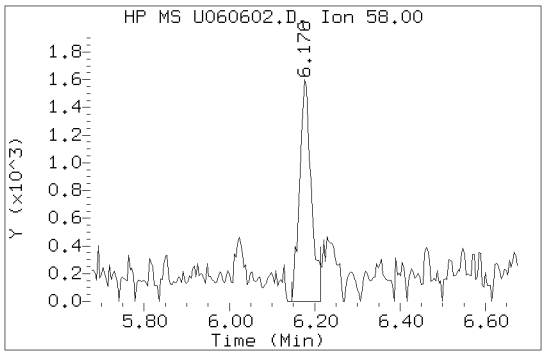
pham



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060603.D Page 1
Report Date: 21-Jun-2023 13:47

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060603.D
Lab Smp Id: VSTD000.5 Client Smp ID: VSTD000.5
Inj Date : 06-JUN-2023 11:37
Operator : PC Inst ID: VOA9.i
Smp Info : VSTD000.5;VSTD000.5;1;2;
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
Meth Date : 21-Jun-2023 13:45 pcabasca Quant Type: ISTD
Cal Date : 06-JUN-2023 11:37 Cal File: U060603.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14

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

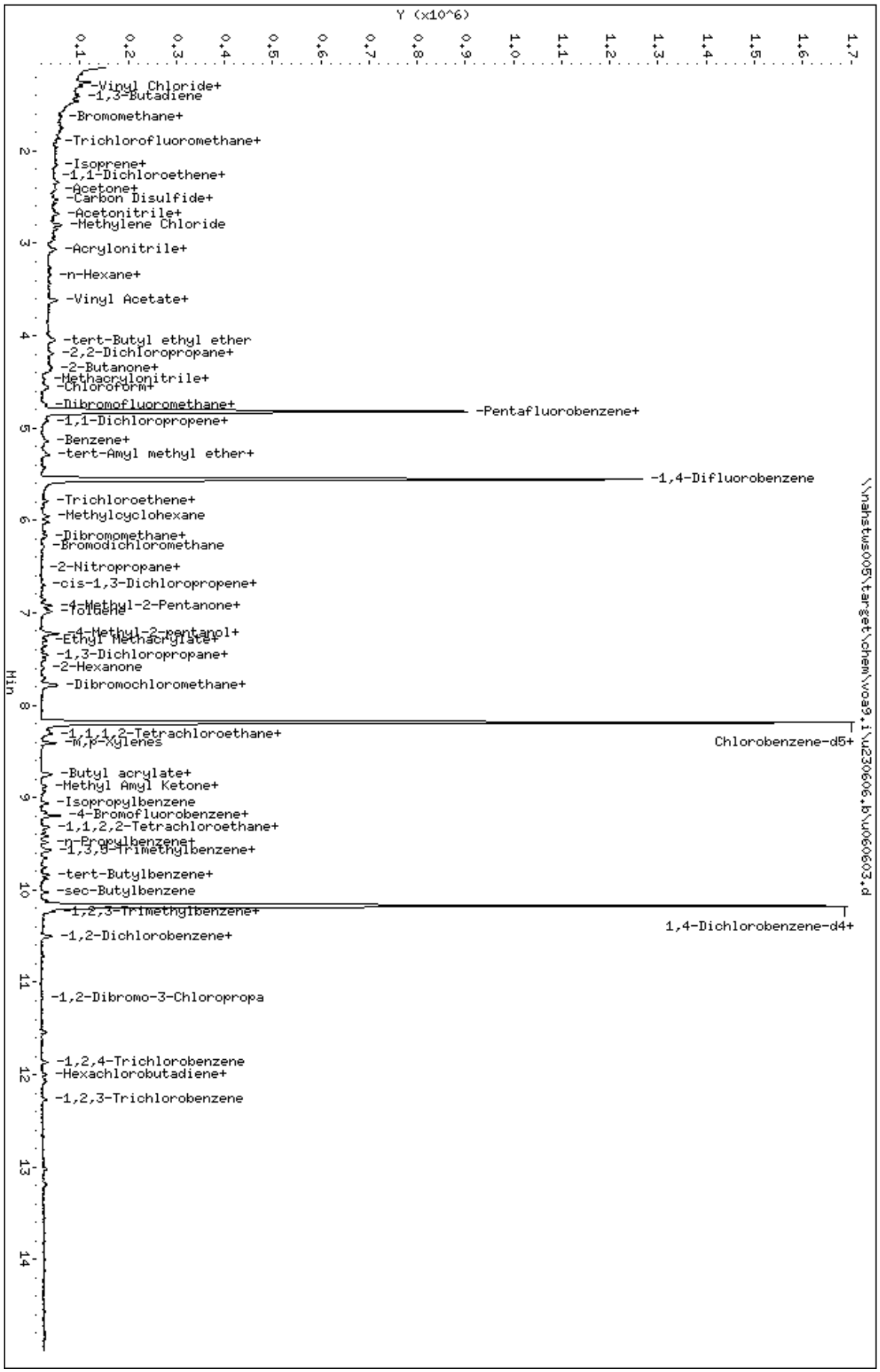
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.819	4.819	(1.000)	671879	50.0000	
	2 Dichlorodifluoromethane	85	1.168	1.168	(0.242)	3237	0.50000	0.60(a)
	5 Vinyl Chloride	62	1.381	1.381	(0.287)	3572	0.50000	0.50(a)
	7 Chloroethane	64	1.704	1.704	(0.354)	2580	0.50000	0.53(aM)
	15 Iodomethane	142	2.480	2.480	(0.515)	1872	1.00000	10.30(T)
	19 Carbon Disulfide	76	2.525	2.525	(0.524)	13120	1.00000	0.96(a)
	20 trans-1,2-Dichloroethene	96	3.065	3.065	(0.636)	2954	0.50000	0.53(a)
	22 1,1-Dichloroethane	63	3.518	3.518	(0.730)	6153	0.50000	0.58(a)
	24 2-Butanone	43	4.272	4.272	(0.886)	3610	1.00000	1.17(aM)
	26 2,2-Dichloropropane	77	4.193	4.193	(0.870)	3685	0.50000	0.92(a)
	29 Bromochloromethane	128	4.470	4.470	(0.928)	2104	0.50000	0.56(a)
$	30 Dibromofluoromethane	113	4.751	4.751	(0.986)	3644	0.50000	0.33(aM)
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	4434	0.50000	0.53(aM)
$	35 1,2-Dichloroethane-d4	65	5.104	5.104	(1.059)	3795	0.50000	(aM)
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	991670	50.0000	
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	4533	0.50000	2.34(aM)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	921846	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	14408	0.50000	0.69(aM)
	50 Toluene	91	6.986	6.986	(0.853)	13471	0.50000	0.53(aM)
	51 trans-1,3-Dichloropropene	75	7.203	7.203	(1.297)	4073	0.50000	2.48(aM)
	54 1,3-Dichloropropane	76	7.503	7.503	(0.917)	5569	0.50000	0.52(a)

57 1,2-Dibromoethane	107	7.792	7.792 (0.952)	3622	0.50000	0.56(aM)
58 1-Chlorohexane	55	8.200	8.200 (1.477)	2785	0.50000	0.54(aM)

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	59	Chlorobenzene	112	8.208	8.208	(1.003)	8858	0.50000	0.49(a)
	60	1,1,1,2-Tetrachloroethane	131	8.286	8.286	(1.012)	3117	0.50000	0.50(a)
	62	m,p-Xylenes	106	8.410	8.410	(1.027)	9164	1.00000	0.93(aM)
	68	1,1,2,2-Tetrachloroethane	83	9.332	9.332	(0.917)	4333	0.50000	0.50(aM)
$	69	4-Bromofluorobenzene	95	9.194	9.194	(1.123)	5007	0.50000	(aM)
*	70	1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	456421	50.0000	
	83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	6595	0.50000	0.50(a)
	93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	4090	0.50000	0.46(aM)
M	94	1,2-Dichloroethylene (total)	96				6594	1.00000	1.08(a)
	141	Cyclohexane	56	4.796	4.796	(0.995)	4345	0.50000	0.72(aM)
	138	Freon TF	101	2.341	2.341	(0.486)	2391	0.50000	0.52(aM)
	140	1,3-Butadiene	54	1.408	1.408	(0.292)	2958	0.50000	0.46(a)
	13	Acetonitrile	39	2.678	2.678	(0.556)	4044	5.00000	5.55(a)
	40	Methyl Methacrylate	41	6.165	6.165	(1.279)	3083	0.50000	0.53(aM)
	4	Propionitrile	54	4.347	4.347	(0.902)	5579	5.00000	5.74(aM)
	136	n-Hexane	57	3.353	3.353	(0.696)	2983	0.50000	0.65(a)
	200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	1341	0.50000	4.71(aM)
	166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	9904	0.50000	0.56(a)
	145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	3201	0.50000	3.88(a)
	156	Diisopropyl ether	45	3.627	3.627	(0.753)	10933	0.50000	0.58(a)
	151	4-Methyl-2-pentanol	45	7.226	7.226	(1.301)	20153	10.0000	13.66
	150	Allyl alcohol	57	3.353	3.353	(0.696)	2691	10.0000	12.72(M)
	86	Benzyl Chloride	91	10.315	10.315	(1.260)	1867	0.50000	3.78(aM)
	162	Butyl acrylate	55	8.740	8.740	(1.068)	6005	0.50000	0.55(a)
	139	Diethyl ether	59	2.150	2.150	(0.446)	2812	0.50000	0.61(aM)
	203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	2309	0.50000	2.27(a)
	130	Ethyl Acetate	43	4.272	4.272	(0.886)	3781	0.50000	0.62(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Sample Info: VSTD000.5;VSTD000.5;1;2;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: PC
Column diameter: 0.18

Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Chloromethane (74-87-3)

BEFORE
MASS
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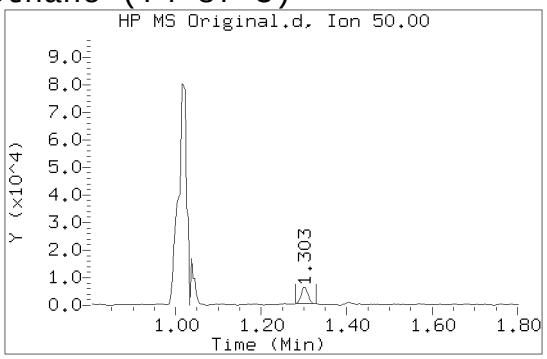
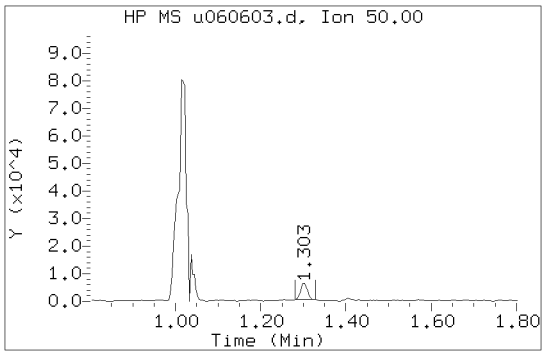
AREA
6740
HEIGHT
5876
08-Jun-2023
14:56
linh
pham



Reason Code:

AFTER
MASS
50
AREA
6740
HEIGHT
5876
21-Jun-2023
13:47
linh
pha



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08-Jun-2023
14:56
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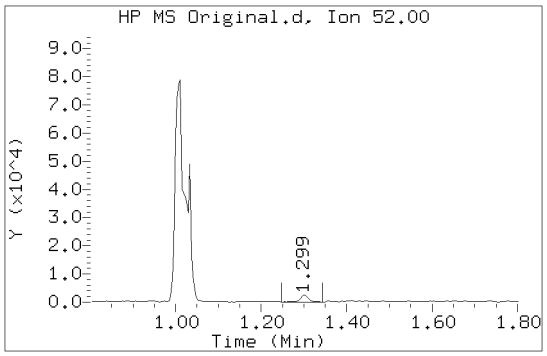

AFTER
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21-Jun-2023
13:47
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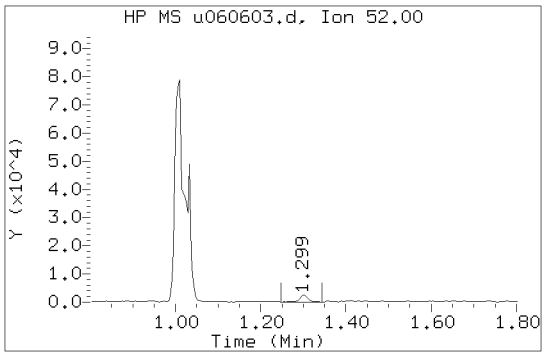

Bromomethane (74-83-9)

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HEIGHT
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08-Jun-2023
14:56
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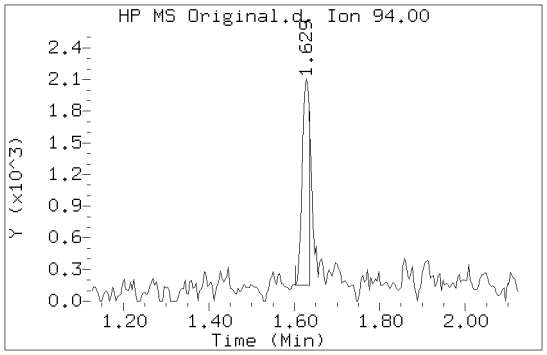
pham



Reason Code:

AFTER
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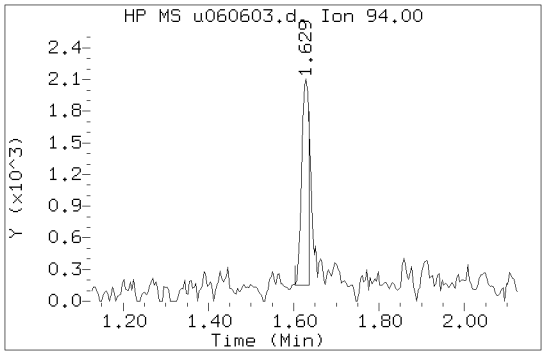
HEIGHT
1953
21-Jun-2023
13:47
linh
pha



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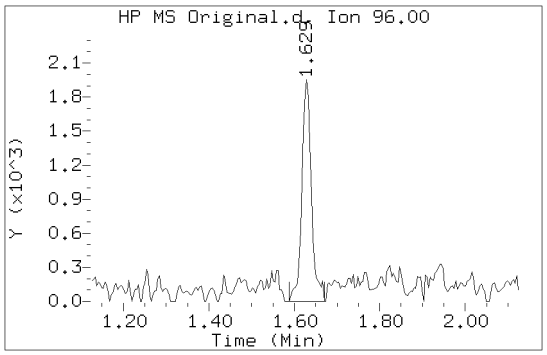

AFTER
MASS
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3081
HEIGHT
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21-Jun-2023
13:47
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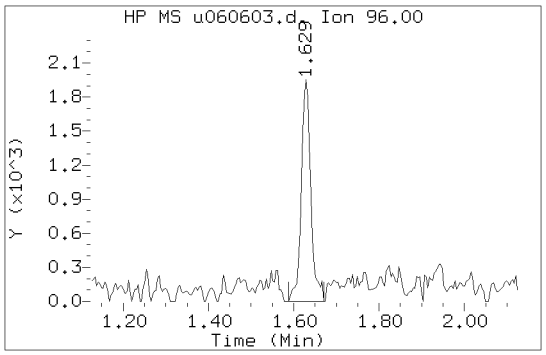
pha



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Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Chloroethane (75-00-3)

Reason Code:

BEFORE
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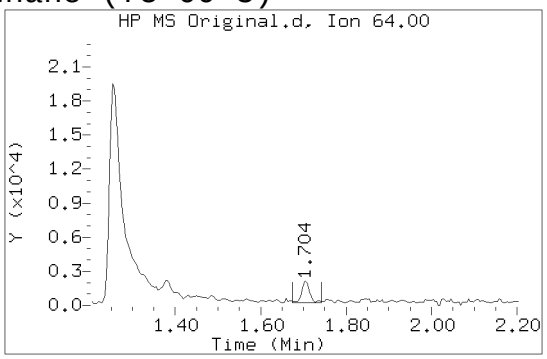
AREA
2580
HEIGHT
1940
08-Jun-2023
14:56
linh
pham



AFTER
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AREA
2580
HEIGHT
1940
21-Jun-2023
13:47
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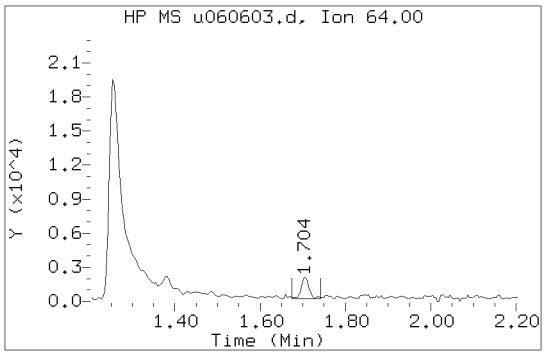
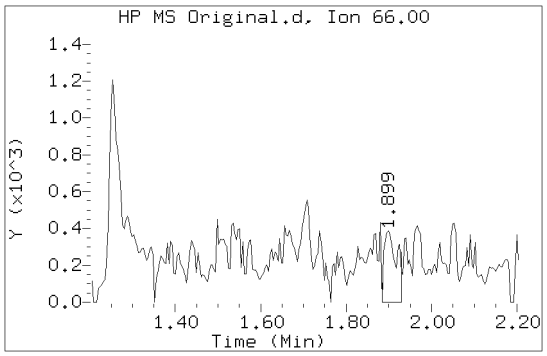


BEFORE
MASS
66
AREA
783
HEIGHT
389
08-Jun-2023
14:56
linh
pham



AFTER
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AREA
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HEIGHT
389
21-Jun-2023
13:47
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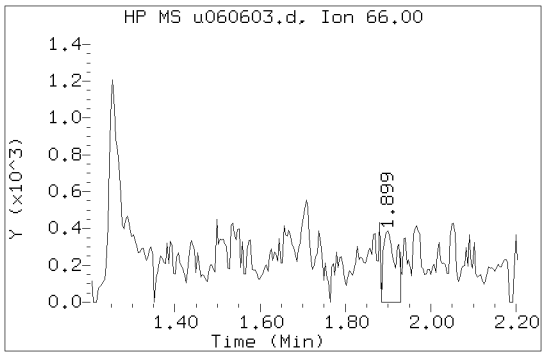

Acrolein (107-02-8)

Reason Code:

BEFORE
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AREA
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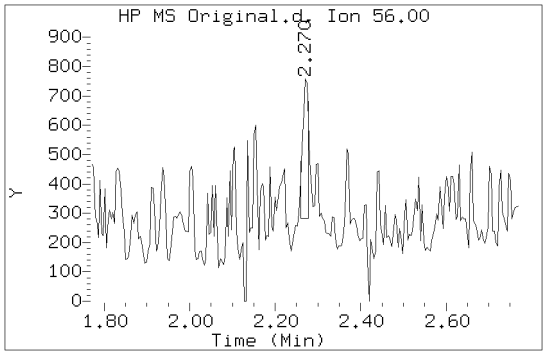
HEIGHT
476
08-Jun-2023
14:56
linh
pham



AFTER
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AREA
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21-Jun-2023
13:47
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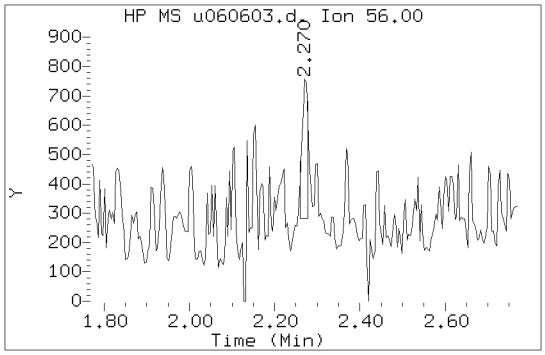

BEFORE
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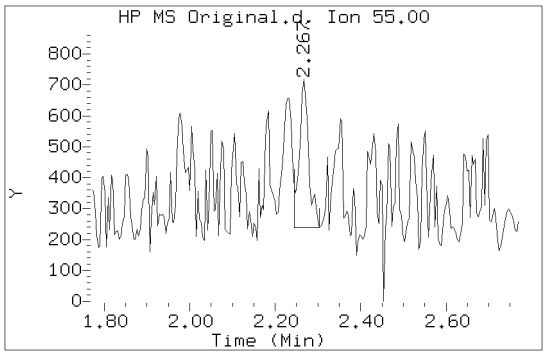
AREA
750
HEIGHT
478
08-Jun-2023
14:56
linh
pham



AFTER
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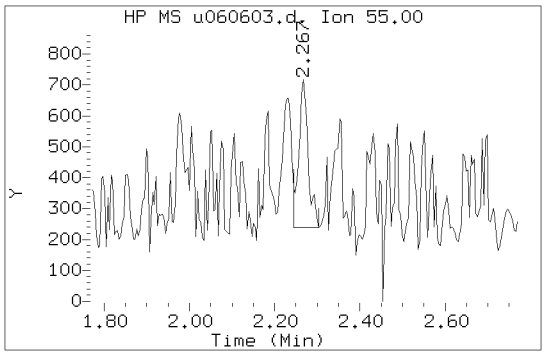
AREA
750
HEIGHT
478
21-Jun-2023
13:47
linh
pha



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Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

2-Butanone (78-93-3)

Reason Code:

BEFORE

MASS
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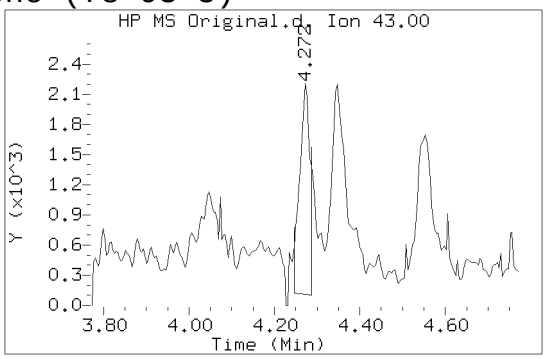
AREA
3610
HEIGHT
2093
08-Jun-2023
14:56
linh
pham



AFTER

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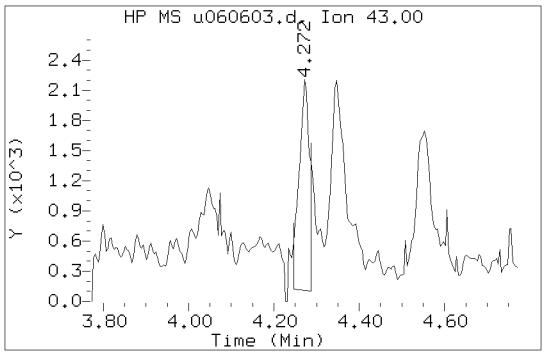
HEIGHT
2093
21-Jun-2023
13:47
linh
pha



BEFORE

MASS
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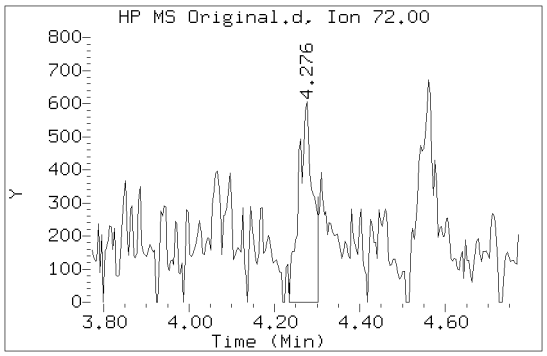
HEIGHT
606
08-Jun-2023
14:56
linh
pham



AFTER

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21-Jun-2023
13:47
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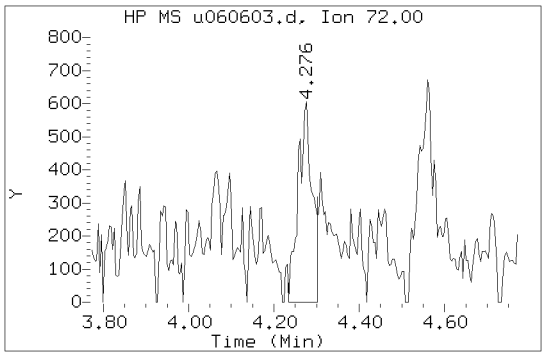

cis-1,2-Dichloroethene (156-59-2)

Reason Code:

BEFORE

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AREA
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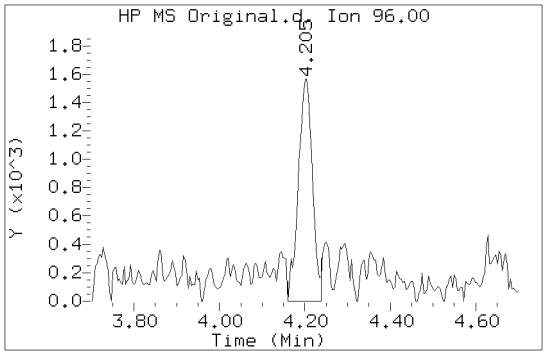
HEIGHT
1571
08-Jun-2023
14:56
linh
pham



AFTER

MASS
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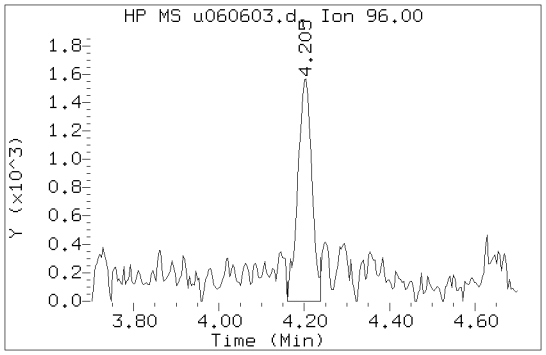
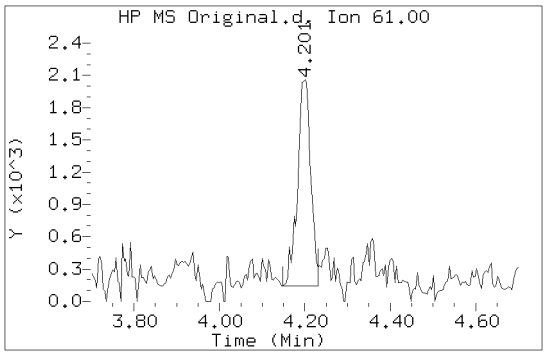
AREA
3640
HEIGHT
1571
21-Jun-2023
13:47
linh
pha



BEFORE

MASS
61
AREA
4196
HEIGHT
1915
08-Jun-2023
14:56
linh
pham



AFTER

MASS
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21-Jun-2023
13:47
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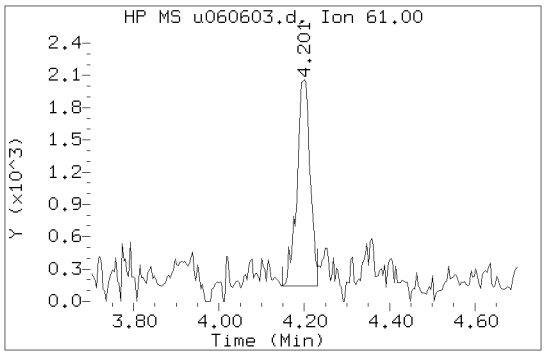

Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

cis-1,2-Dichloroethene (156-59-2)

Reason Code:

BEFORE

MASS
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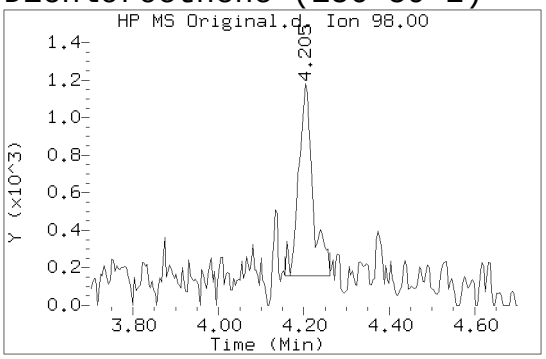
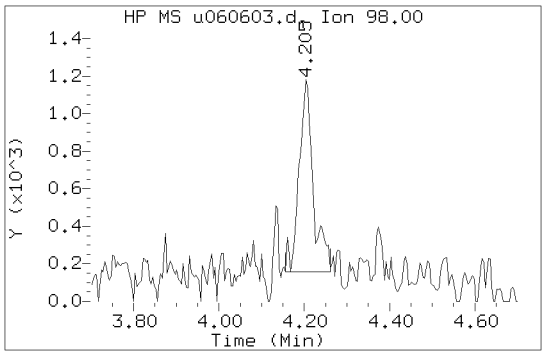
AREA
2375
HEIGHT
1023
08-Jun-2023
14:56
linh
pham



AFTER

MASS
98
AREA
2375
HEIGHT
1023
21-Jun-2023
13:47
linh
pha

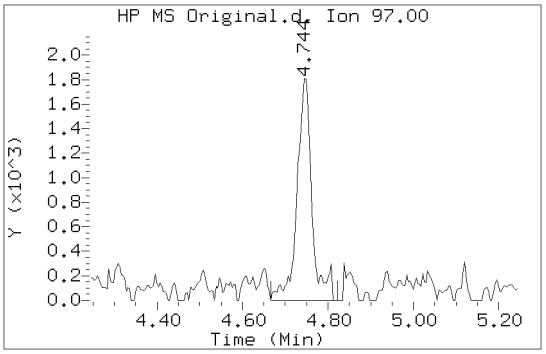


1,1,1-Trichloroethane (71-55-6)

Reason Code:

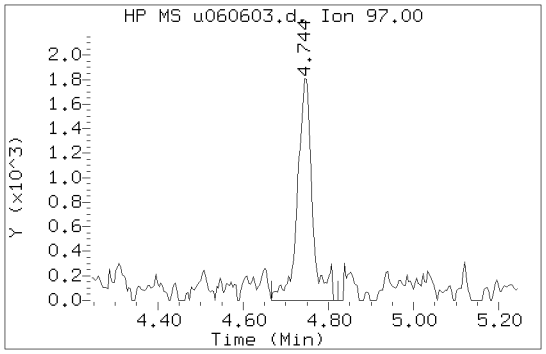
BEFORE

MASS
97
AREA
4434
HEIGHT
1807
08-Jun-2023
14:56
linh
pham



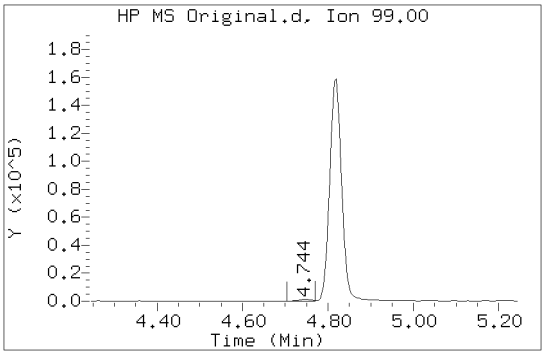
AFTER

MASS
97
AREA
4434
HEIGHT
1807
21-Jun-2023
13:47
linh
pha



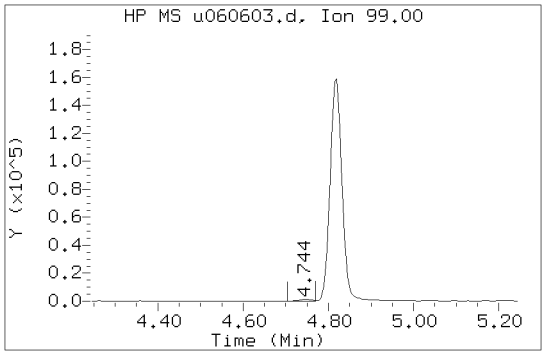
BEFORE

MASS
99
AREA
2413
HEIGHT
1165
08-Jun-2023
14:56
linh
pham



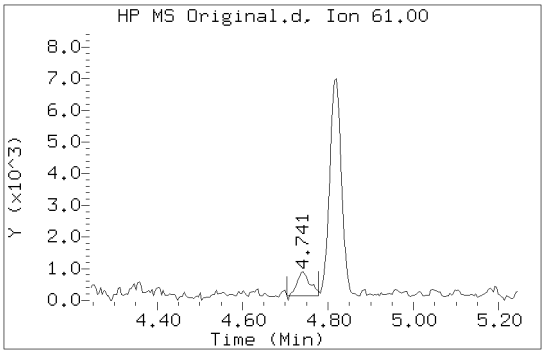
AFTER

MASS
99
AREA
2413
HEIGHT
1165
21-Jun-2023
13:47
linh
pha



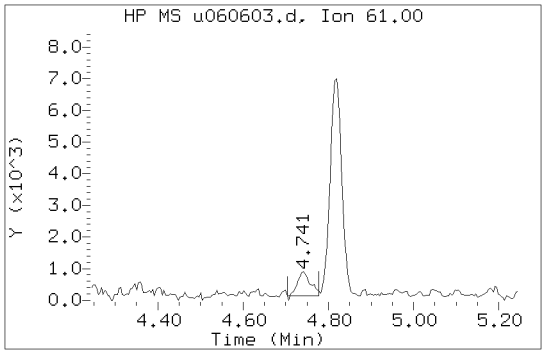
BEFORE

MASS
61
AREA
1649
HEIGHT
774
08-Jun-2023
14:56
linh
pham



AFTER

MASS
61
AREA
1649
HEIGHT
774
21-Jun-2023
13:47
linh
pha



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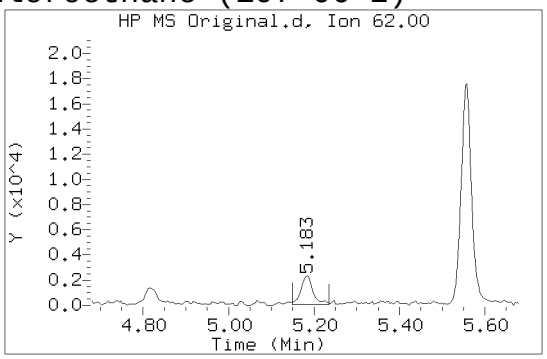
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

1,2-Dichloroethane (107-06-2)

Reason Code:

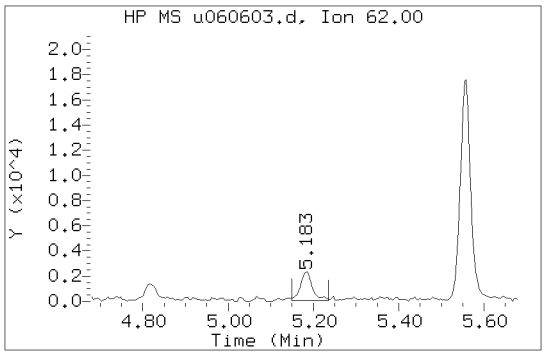
BEFORE

MASS
62
AREA
4646
HEIGHT
2294
08-Jun-2023
14:56
linh
pham



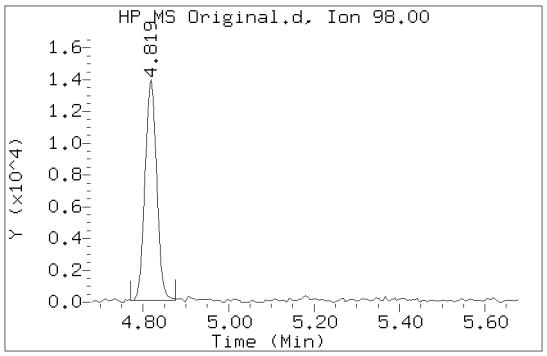
AFTER

MASS
62
AREA
4646
HEIGHT
2294
21-Jun-2023
13:47
linh
pha



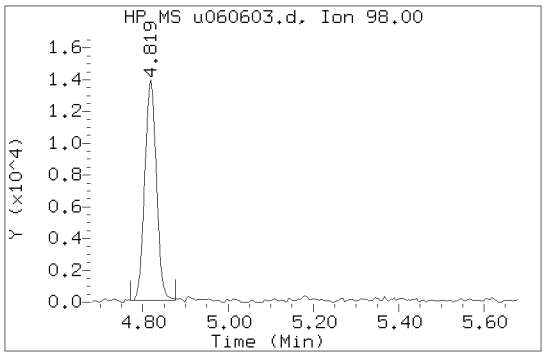
BEFORE

MASS
98
AREA
26343
HEIGHT
13869
08-Jun-2023
14:56
linh
pham



AFTER

MASS
98
AREA
26343
HEIGHT
13869
21-Jun-2023
13:47
linh
pha

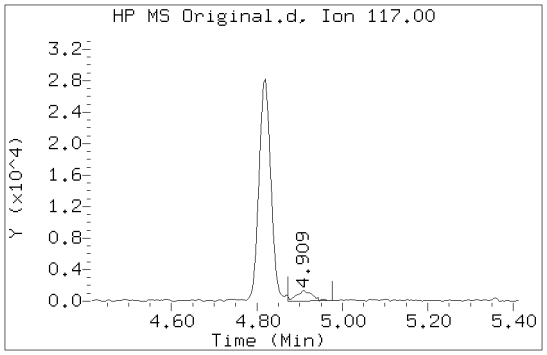


Carbon Tetrachloride (56-23-5)

Reason Code:

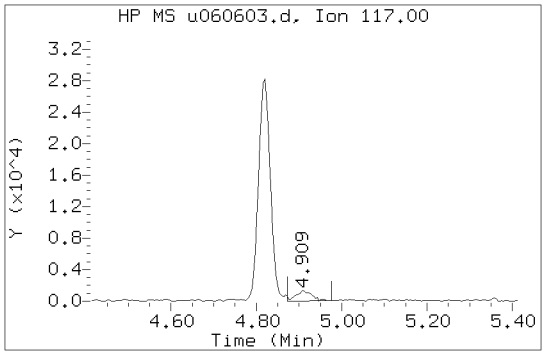
BEFORE

MASS
117
AREA
3518
HEIGHT
1311
08-Jun-2023
14:56
linh
pham



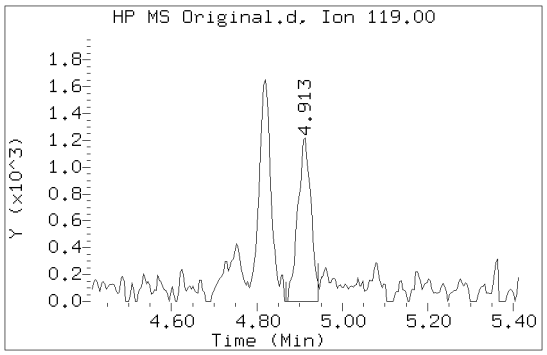
AFTER

MASS
117
AREA
3518
HEIGHT
1311
21-Jun-2023
13:47
linh
pha



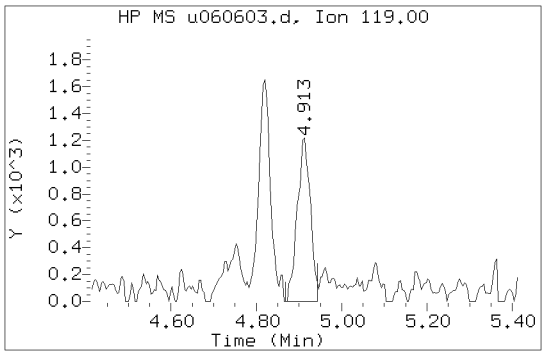
BEFORE

MASS
119
AREA
2642
HEIGHT
1217
08-Jun-2023
14:56
linh
pham



AFTER

MASS
119
AREA
2642
HEIGHT
1217
21-Jun-2023
13:47
linh
pha



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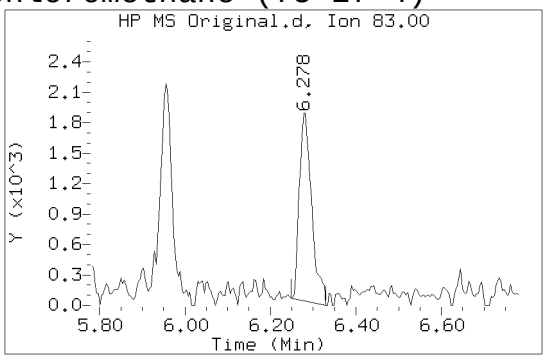
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

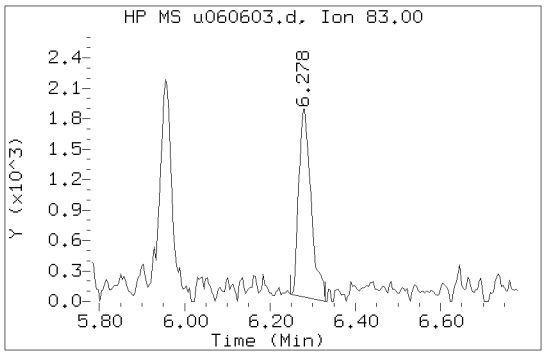
Bromodichloromethane (75-27-4)

Reason Code:

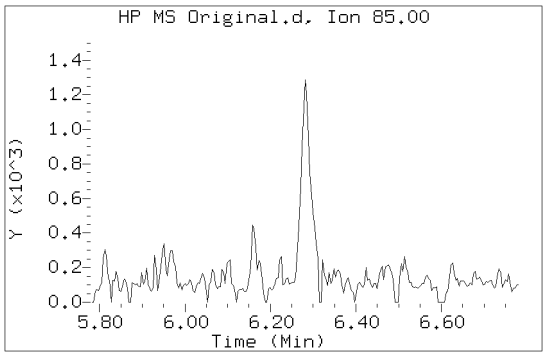
BEFORE
MASS
83
AREA
3797
HEIGHT
1853
08-Jun-2023
14:56
linh
pham



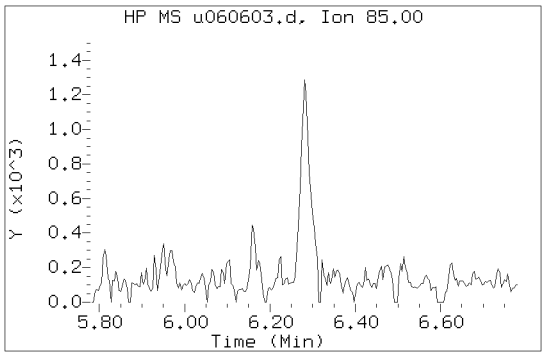
AFTER
MASS
83
AREA
3797
HEIGHT
1853
21-Jun-2023
13:47
linh
pha



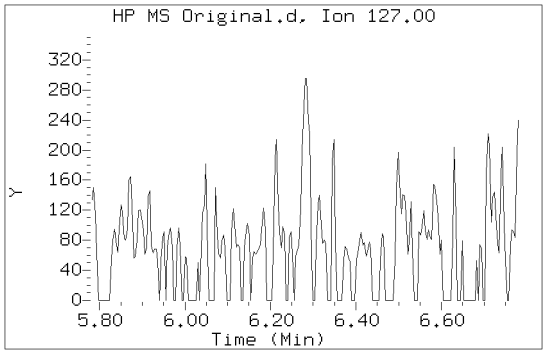
BEFORE
MASS
85
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



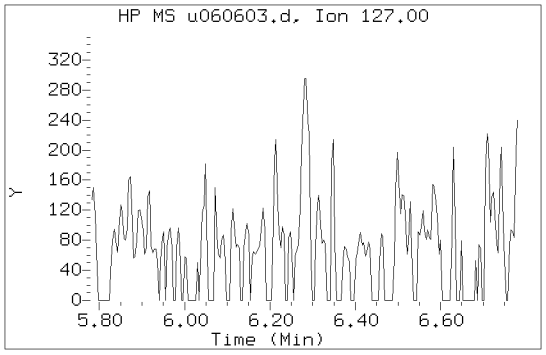
AFTER
MASS
85
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
127
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



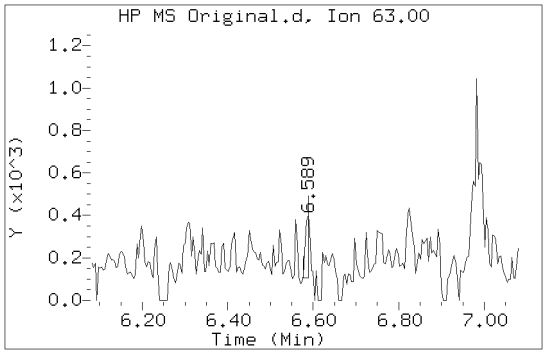
AFTER
MASS
127
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



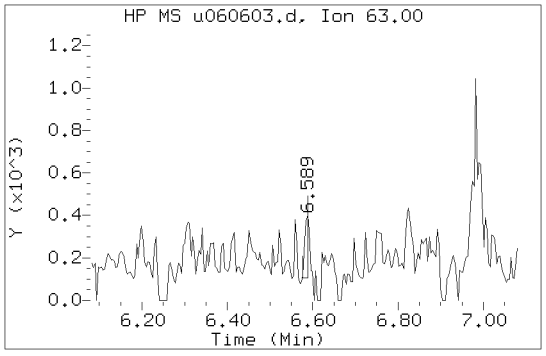
2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE
MASS
63
AREA
169
HEIGHT
296
08-Jun-2023
14:56
linh
pham



AFTER
MASS
63
AREA
169
HEIGHT
296
21-Jun-2023
13:47
linh
pha

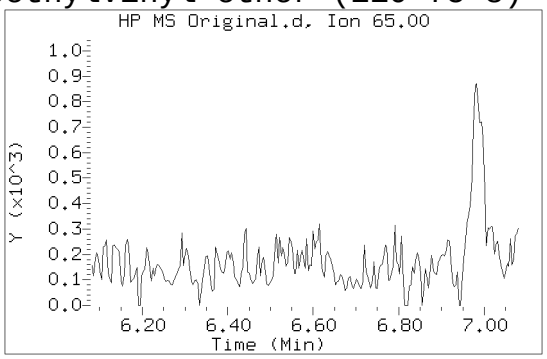


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

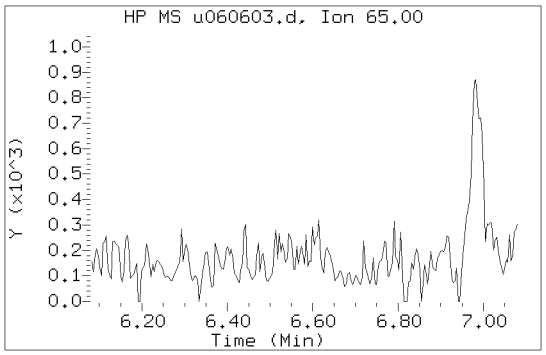
2-Chloroethylvinyl ether (110-75-8)

Reason Code:

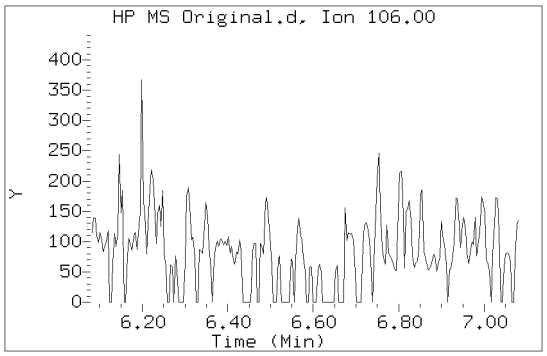
BEFORE
MASS
65
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



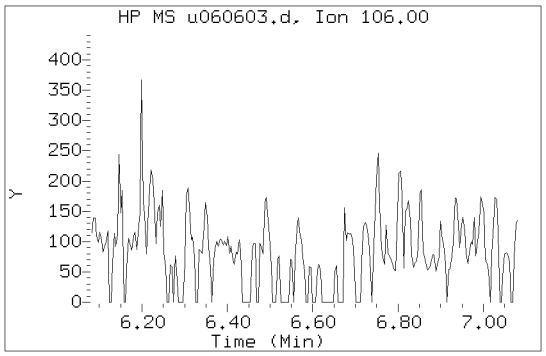
AFTER
MASS
65
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
106
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



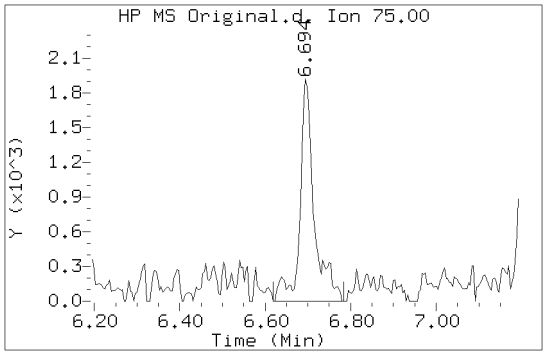
AFTER
MASS
106
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



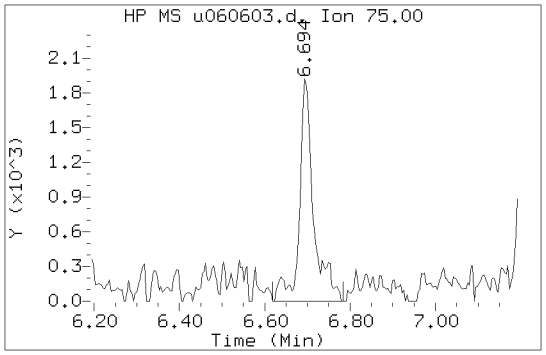
cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

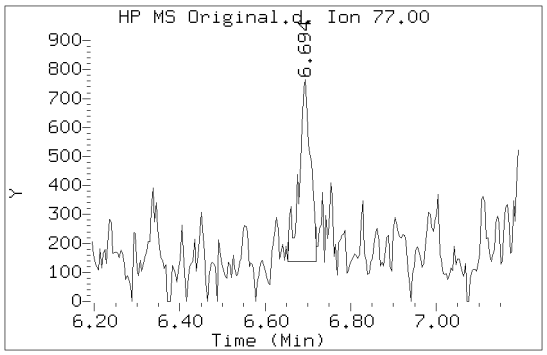
BEFORE
MASS
75
AREA
4533
HEIGHT
1923
08-Jun-2023
14:56
linh
pham



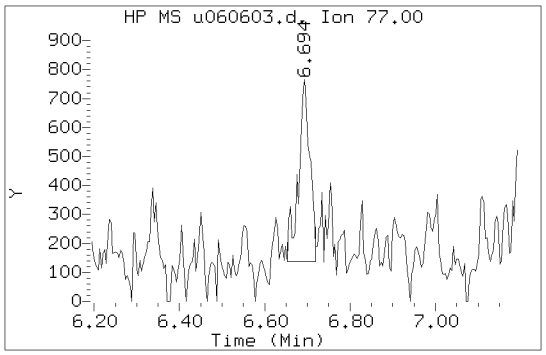
AFTER
MASS
75
AREA
4533
HEIGHT
1923
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
77
AREA
1180
HEIGHT
628
08-Jun-2023
14:56
linh
pham



AFTER
MASS
77
AREA
1180
HEIGHT
628
21-Jun-2023
13:47
linh
pha



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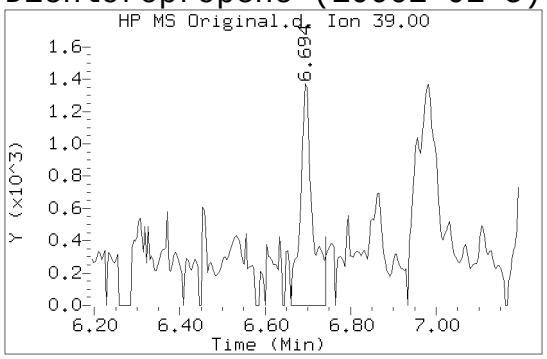
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

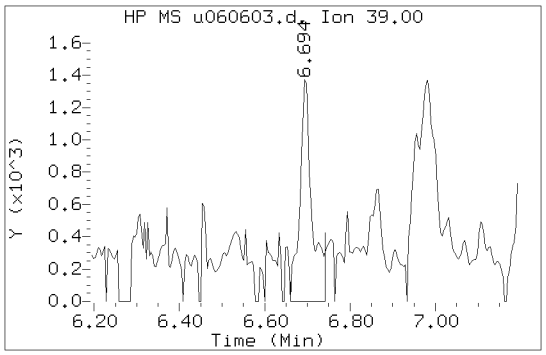
BEFORE

MASS
39
AREA
2809
HEIGHT
1372
08-Jun-2023
14:56
linh
pham



AFTER

MASS
39
AREA
2809
HEIGHT
1372
21-Jun-2023
13:47
linh
pha

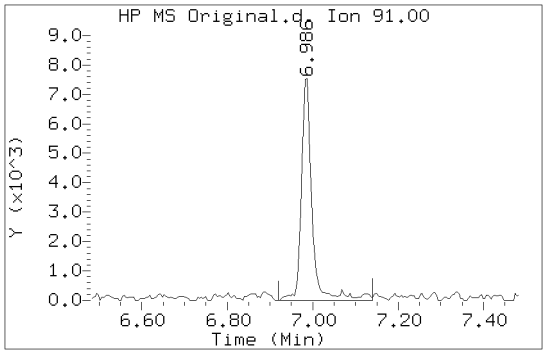


Toluene (108-88-3)

Reason Code:

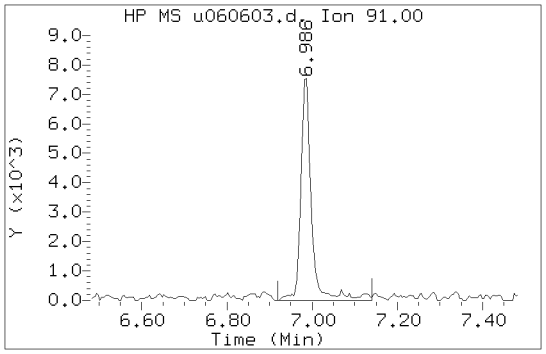
BEFORE

MASS
91
AREA
13471
HEIGHT
7534
08-Jun-2023
14:56
linh
pham



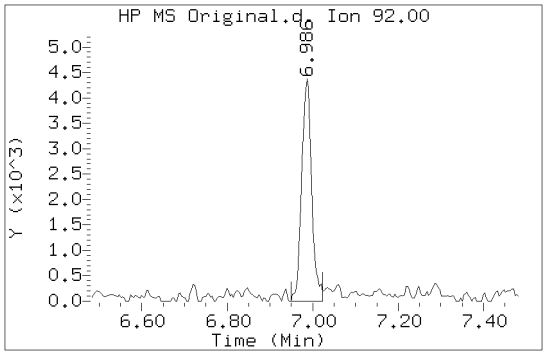
AFTER

MASS
91
AREA
13471
HEIGHT
7534
21-Jun-2023
13:47
linh
pha



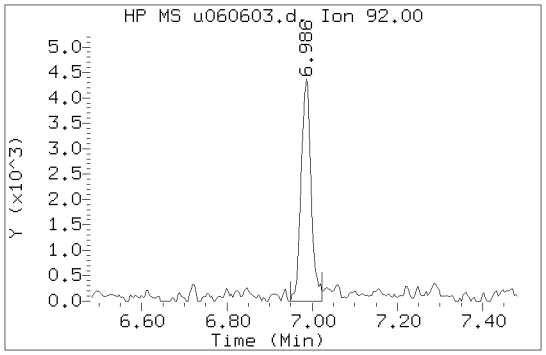
BEFORE

MASS
92
AREA
7328
HEIGHT
4373
08-Jun-2023
14:56
linh
pham



AFTER

MASS
92
AREA
7328
HEIGHT
4373
21-Jun-2023
13:47
linh
pha

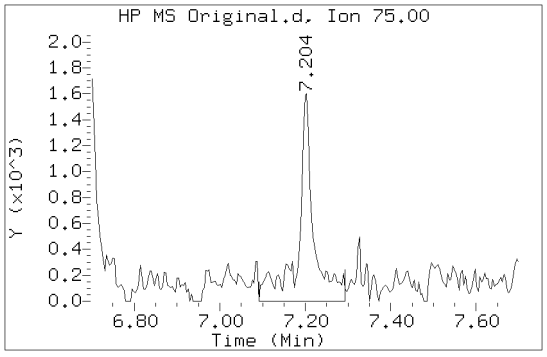


trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

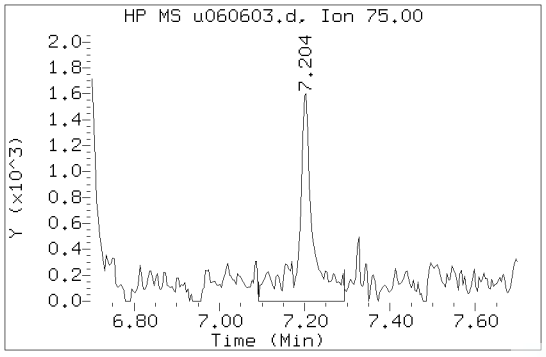
BEFORE

MASS
75
AREA
4073
HEIGHT
1603
08-Jun-2023
14:56
linh
pham



AFTER

MASS
75
AREA
4073
HEIGHT
1603
21-Jun-2023
13:47
linh
pha



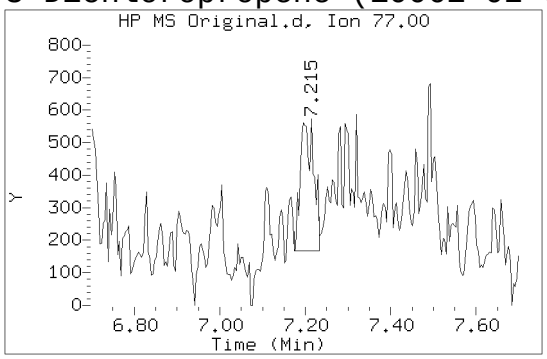
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

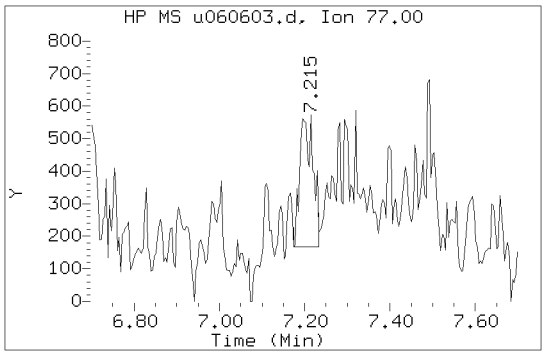
BEFORE

MASS
77
AREA
877
HEIGHT
407
08-Jun-2023
14:56
linh
pham



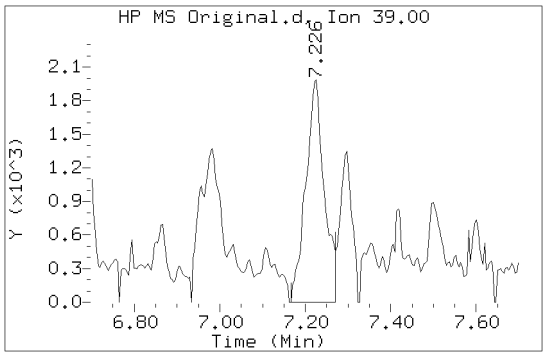
AFTER

MASS
77
AREA
877
HEIGHT
407
21-Jun-2023
13:47
linh
pha



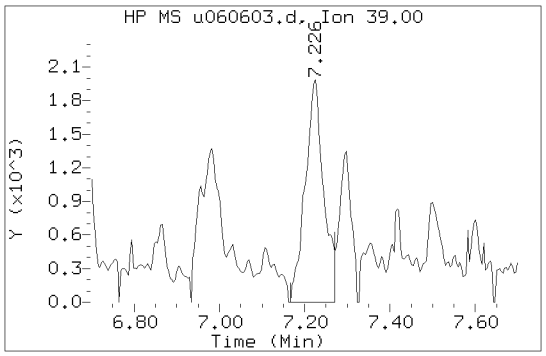
BEFORE

MASS
39
AREA
6017
HEIGHT
1985
08-Jun-2023
14:56
linh
pham



AFTER

MASS
39
AREA
6017
HEIGHT
1985
21-Jun-2023
13:47
linh
pha

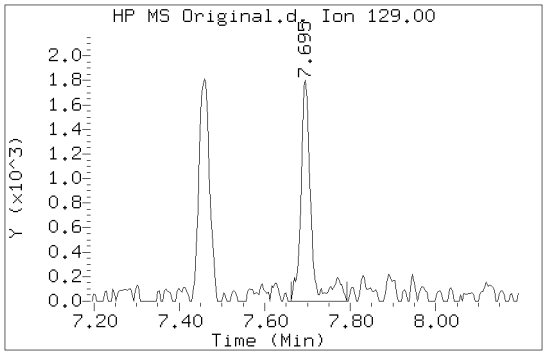


Dibromochloromethane (124-48-1)

Reason Code:

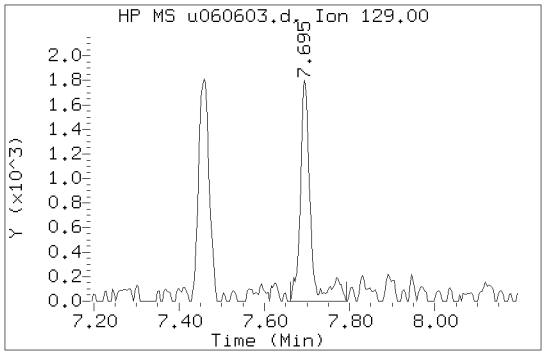
BEFORE

MASS
129
AREA
3068
HEIGHT
1800
08-Jun-2023
14:56
linh
pham



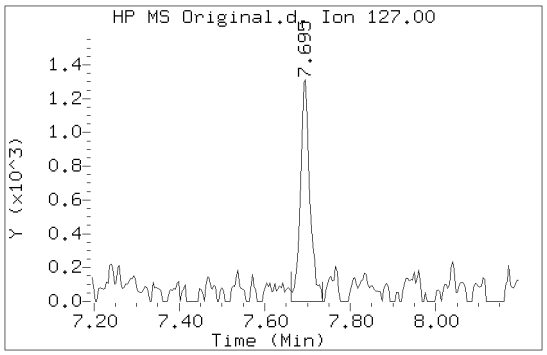
AFTER

MASS
129
AREA
3068
HEIGHT
1800
21-Jun-2023
13:47
linh
pha



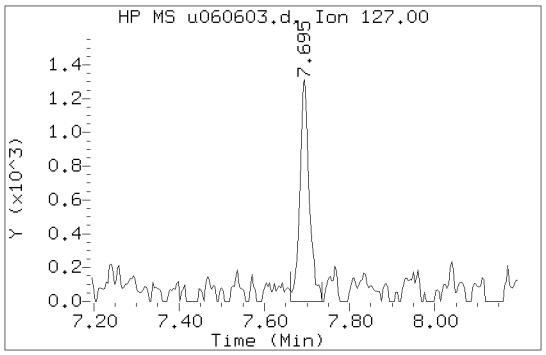
BEFORE

MASS
127
AREA
2055
HEIGHT
1312
08-Jun-2023
14:56
linh
pham



AFTER

MASS
127
AREA
2055
HEIGHT
1312
21-Jun-2023
13:47
linh
pha



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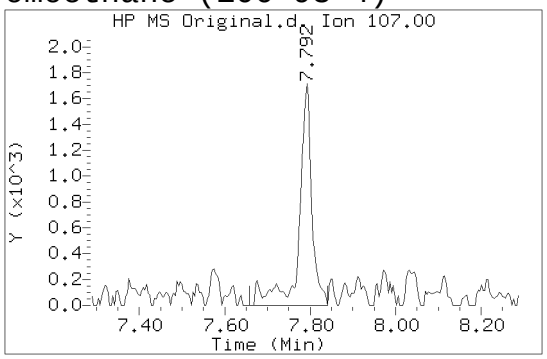
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

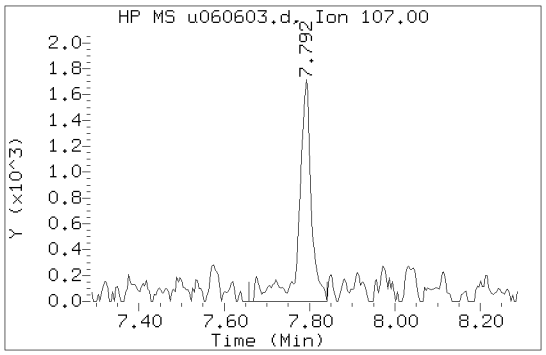
1,2-Dibromoethane (106-93-4)

Reason Code:

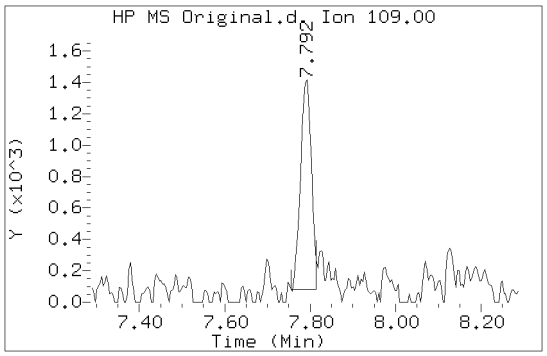
BEFORE
MASS
107
AREA
3622
HEIGHT
1715
08-Jun-2023
14:56
linh
pham



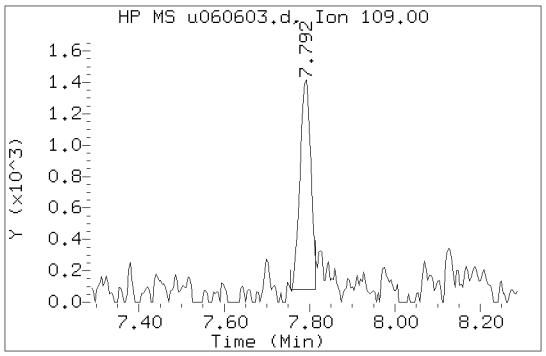
AFTER
MASS
107
AREA
3622
HEIGHT
1715
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
109
AREA
2422
HEIGHT
1334
08-Jun-2023
14:56
linh
pham



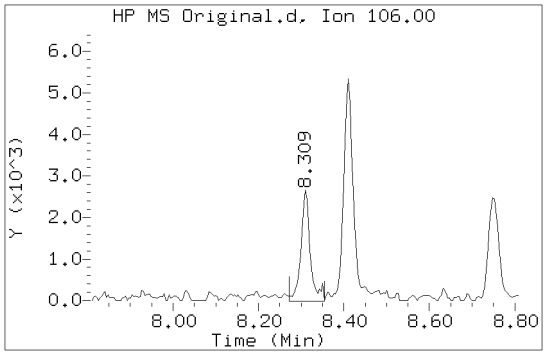
AFTER
MASS
109
AREA
2422
HEIGHT
1334
21-Jun-2023
13:47
linh
pha



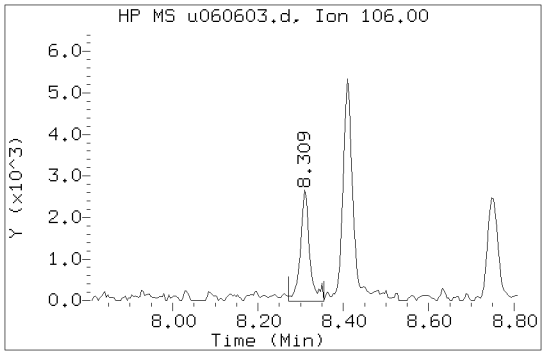
Ethylbenzene (100-41-4)

Reason Code:

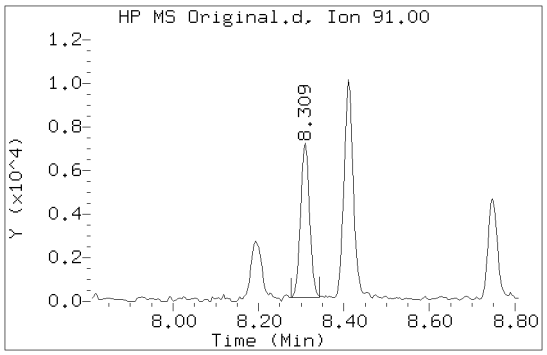
BEFORE
MASS
106
AREA
4142
HEIGHT
2674
08-Jun-2023
14:56
linh
pham



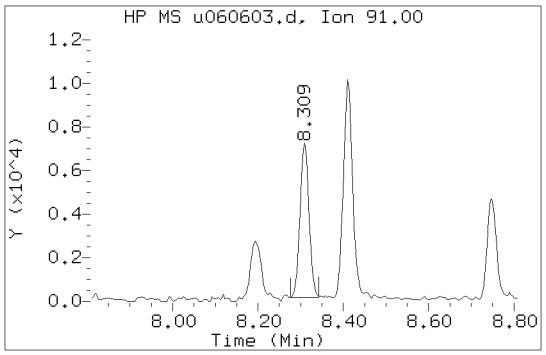
AFTER
MASS
106
AREA
4142
HEIGHT
2674
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
91
AREA
10611
HEIGHT
7101
08-Jun-2023
14:56
linh
pham



AFTER
MASS
91
AREA
10611
HEIGHT
7101
21-Jun-2023
13:47
linh
pha



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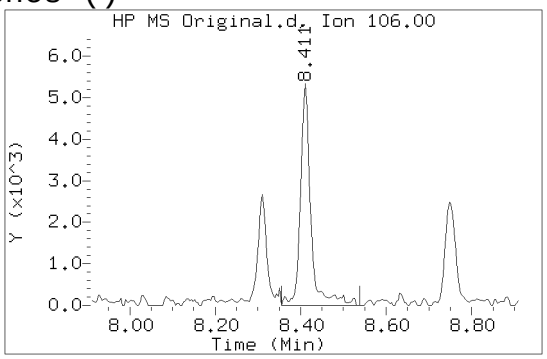
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

m,p-Xylenes ()

Reason Code:

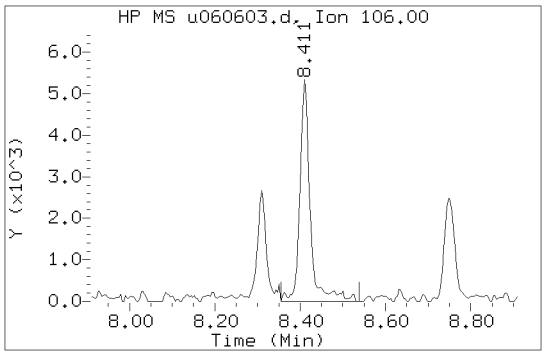
BEFORE

MASS
106
AREA
9164
HEIGHT
5338
08-Jun-2023
14:56
linh
pham



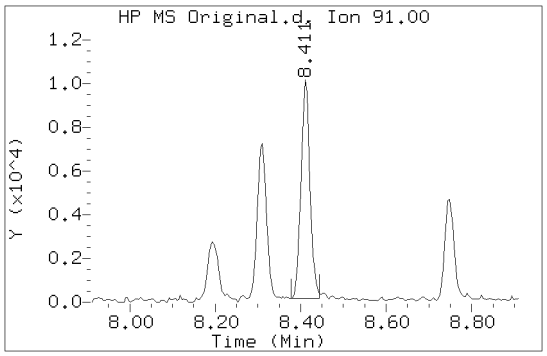
AFTER

MASS
106
AREA
9164
HEIGHT
5338
21-Jun-2023
13:47
linh
pha



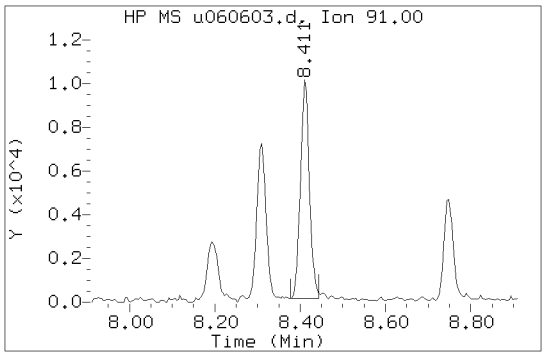
BEFORE

MASS
91
AREA
14815
HEIGHT
9979
08-Jun-2023
14:56
linh
pham



AFTER

MASS
91
AREA
14815
HEIGHT
9979
21-Jun-2023
13:47
linh
pha

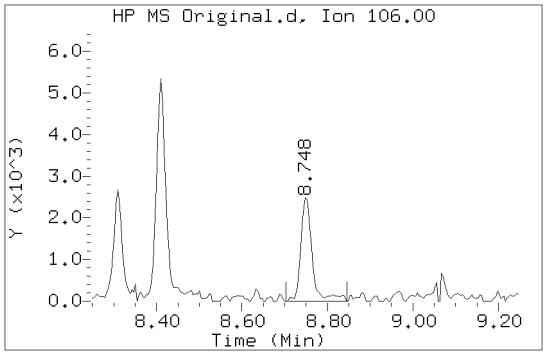


o-Xylene (95-47-6)

Reason Code:

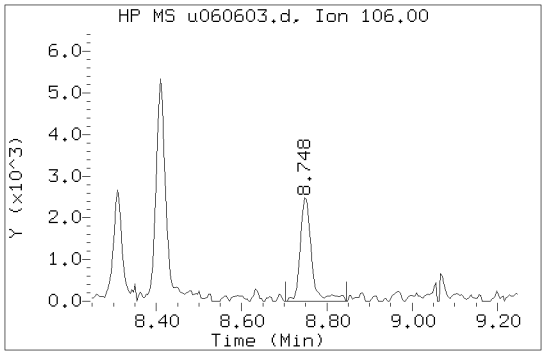
BEFORE

MASS
106
AREA
4736
HEIGHT
2481
08-Jun-2023
14:56
linh
pham



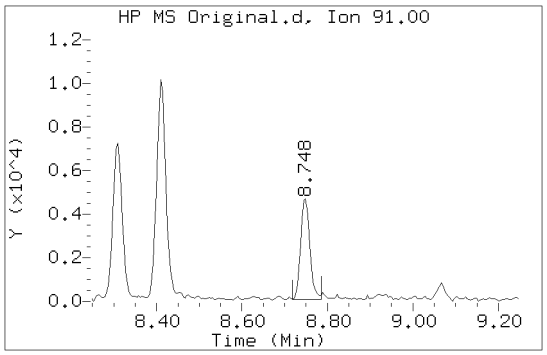
AFTER

MASS
106
AREA
4736
HEIGHT
2481
21-Jun-2023
13:47
linh
pha



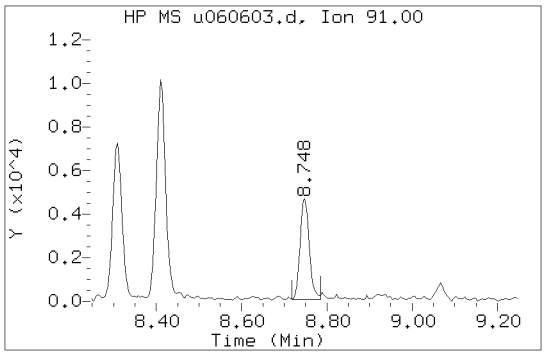
BEFORE

MASS
91
AREA
7145
HEIGHT
4614
08-Jun-2023
14:56
linh
pham



AFTER

MASS
91
AREA
7145
HEIGHT
4614
21-Jun-2023
13:47
linh
pha



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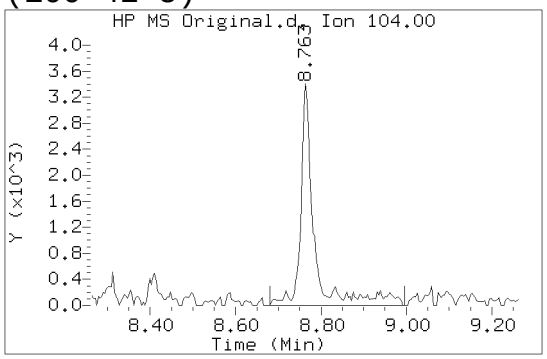
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

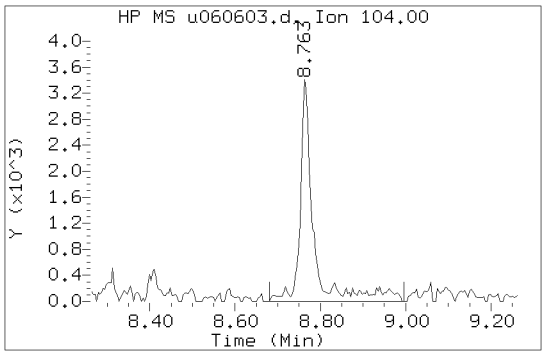
Styrene (100-42-5)

Reason Code:

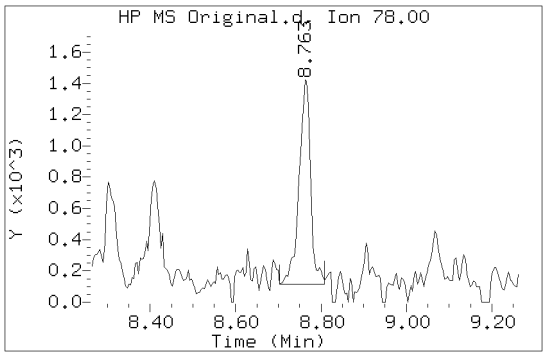
BEFORE
MASS
104
AREA
7547
HEIGHT
3407
08-Jun-2023
14:56
linh
pham



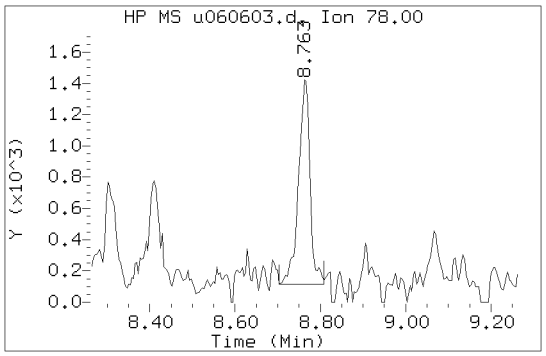
AFTER
MASS
104
AREA
7547
HEIGHT
3407
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
78
AREA
2506
HEIGHT
1307
08-Jun-2023
14:56
linh
pham



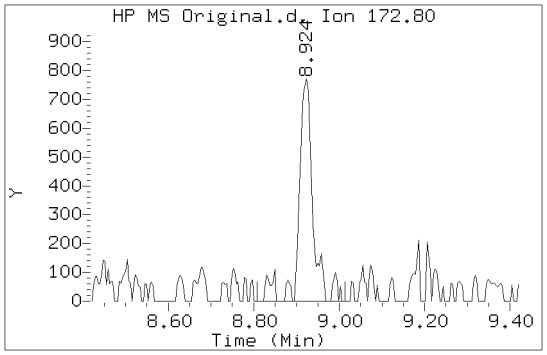
AFTER
MASS
78
AREA
2506
HEIGHT
1307
21-Jun-2023
13:47
linh
pha



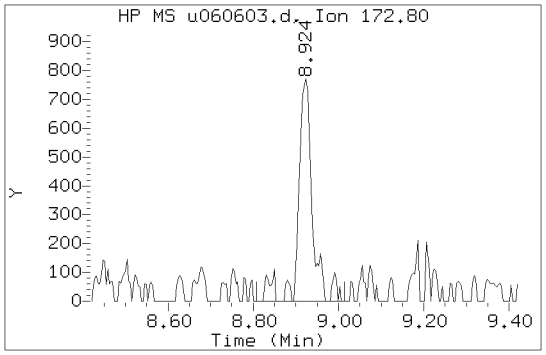
Bromoform (75-25-2)

Reason Code:

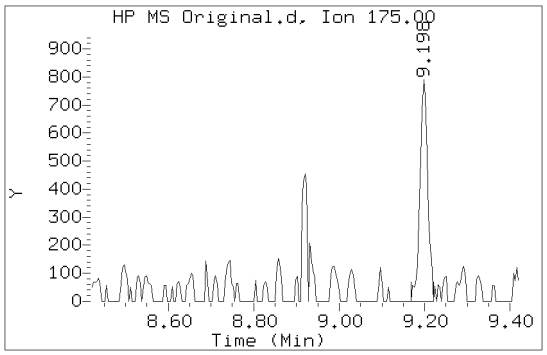
BEFORE
MASS
172.8
AREA
1797
HEIGHT
771
08-Jun-2023
14:56
linh
pham



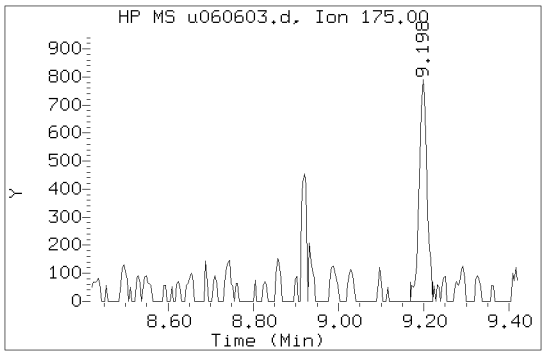
AFTER
MASS
172.8
AREA
1797
HEIGHT
771
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
175
AREA
1005
HEIGHT
790
08-Jun-2023
14:56
linh
pham



AFTER
MASS
175
AREA
1005
HEIGHT
790
21-Jun-2023
13:47
linh
pha



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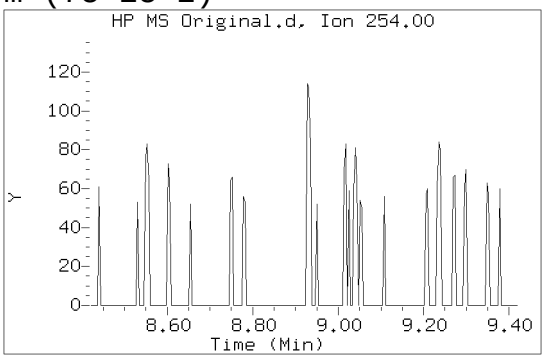
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Bromoform (75-25-2)

Reason Code:

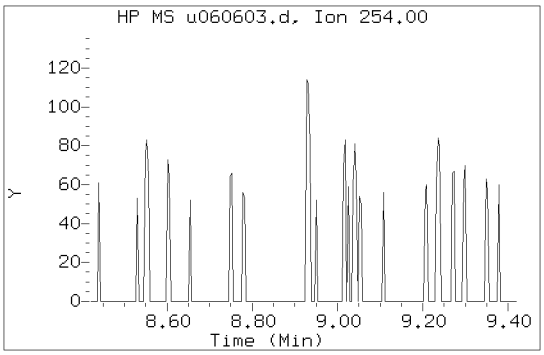
BEFORE

MASS
254
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
254
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

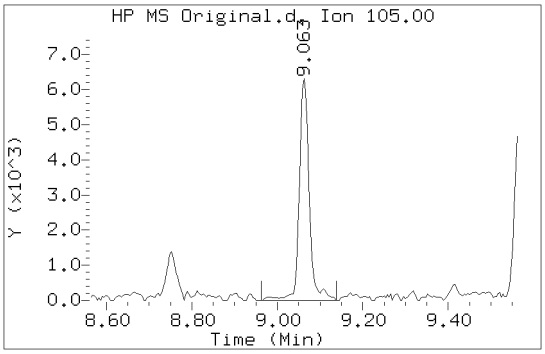


Isopropylbenzene (98-82-8)

Reason Code:

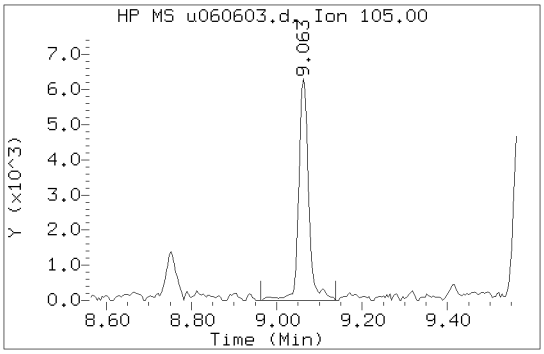
BEFORE

MASS
105
AREA
10525
HEIGHT
6310
08-Jun-2023
14:56
linh
pham



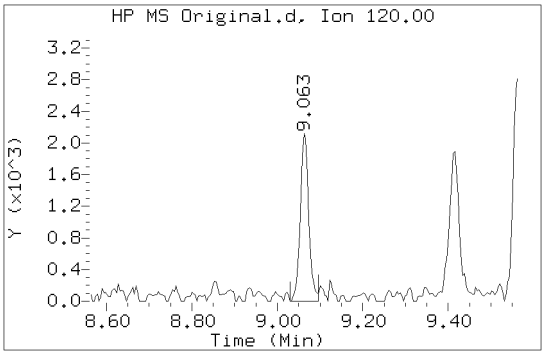
AFTER

MASS
105
AREA
10525
HEIGHT
6310
21-Jun-2023
13:47
linh
pha



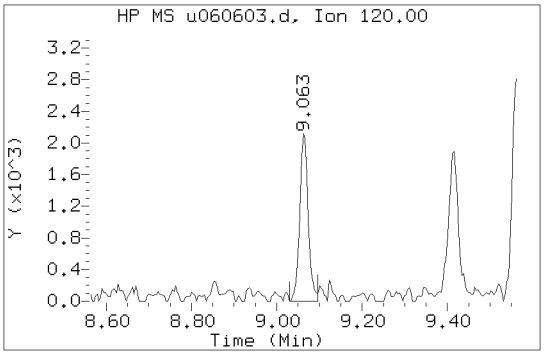
BEFORE

MASS
120
AREA
2979
HEIGHT
2122
08-Jun-2023
14:56
linh
pham



AFTER

MASS
120
AREA
2979
HEIGHT
2122
21-Jun-2023
13:47
linh
pha

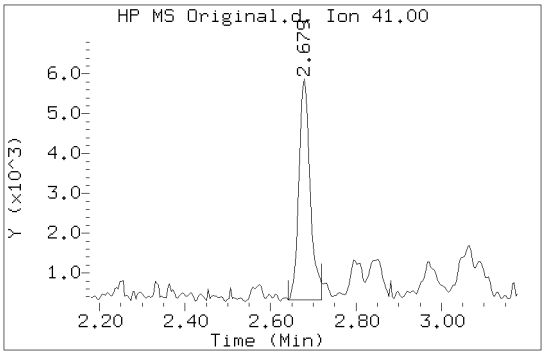


Allyl Chloride (107-05-1)

Reason Code:

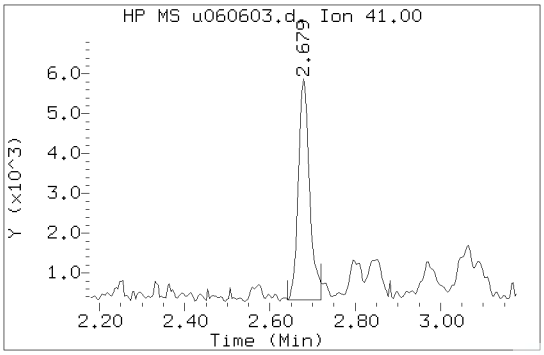
BEFORE

MASS
41
AREA
10377
HEIGHT
5545
08-Jun-2023
14:56
linh
pham



AFTER

MASS
41
AREA
10377
HEIGHT
5545
21-Jun-2023
13:47
linh
pha



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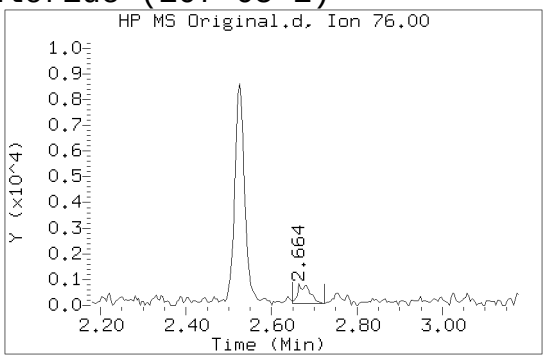
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Allyl Chloride (107-05-1)

Reason Code:

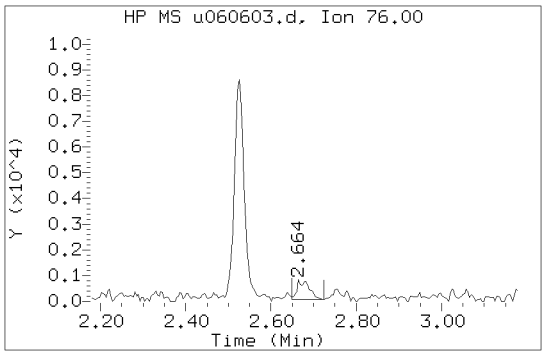
BEFORE

MASS
76
AREA
1452
HEIGHT
753
08-Jun-2023
14:56
linh
pham



AFTER

MASS
76
AREA
1452
HEIGHT
753
21-Jun-2023
13:47
linh
pha

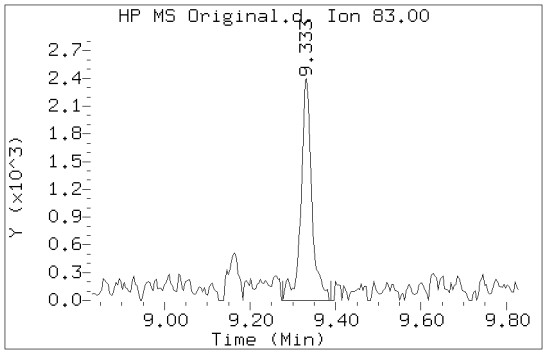


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

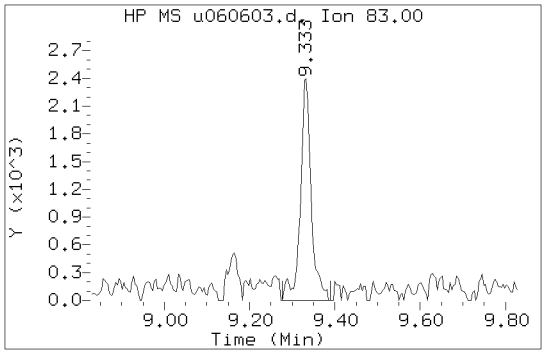
BEFORE

MASS
83
AREA
4333
HEIGHT
2397
08-Jun-2023
14:56
linh
pham



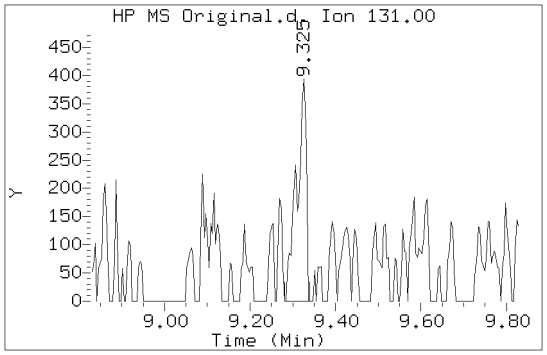
AFTER

MASS
83
AREA
4333
HEIGHT
2397
21-Jun-2023
13:47
linh
pha



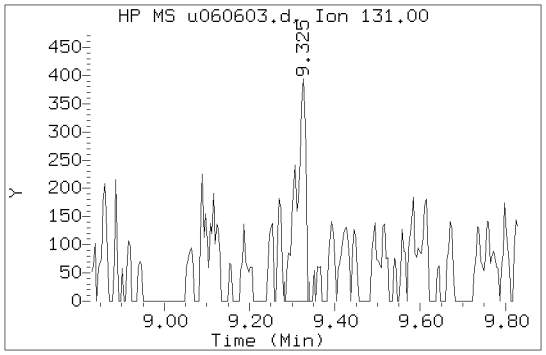
BEFORE

MASS
131
AREA
624
HEIGHT
394
08-Jun-2023
14:56
linh
pham



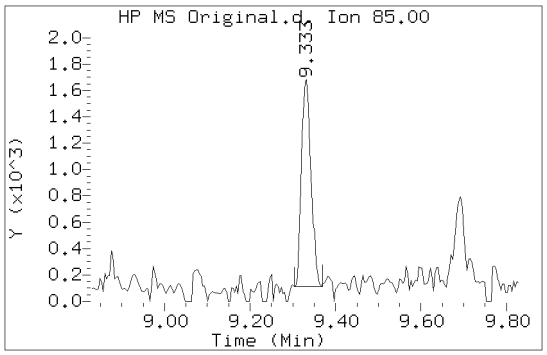
AFTER

MASS
131
AREA
624
HEIGHT
394
21-Jun-2023
13:47
linh
pha



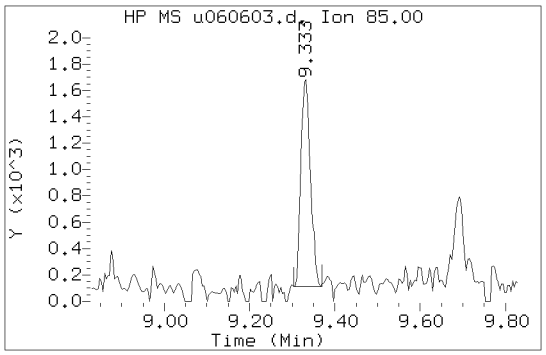
BEFORE

MASS
85
AREA
2508
HEIGHT
1568
08-Jun-2023
14:56
linh
pham



AFTER

MASS
85
AREA
2508
HEIGHT
1568
21-Jun-2023
13:47
linh
pha



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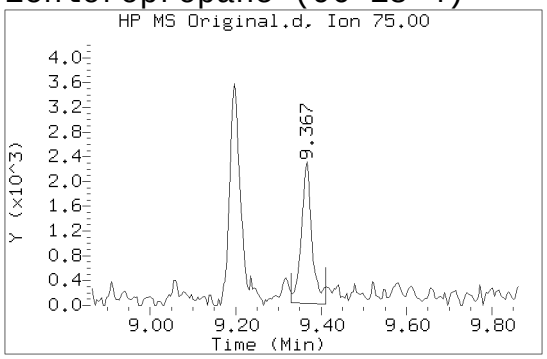
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

1,2,3-Trichloropropane (96-18-4)

Reason Code:

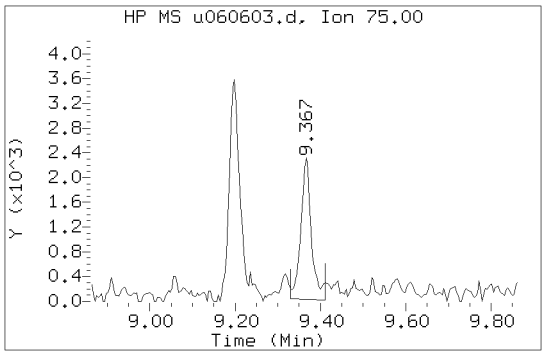
BEFORE

MASS
75
AREA
4089
HEIGHT
2289
08-Jun-2023
14:56
linh
pham



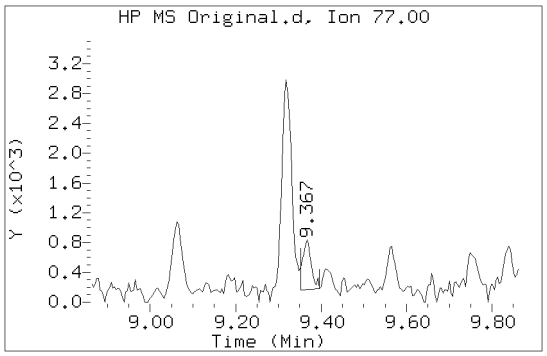
AFTER

MASS
75
AREA
4089
HEIGHT
2289
21-Jun-2023
13:47
linh
pha



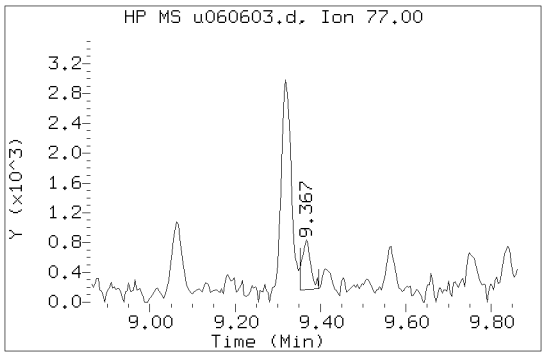
BEFORE

MASS
77
AREA
963
HEIGHT
669
08-Jun-2023
14:56
linh
pham



AFTER

MASS
77
AREA
963
HEIGHT
669
21-Jun-2023
13:47
linh
pha

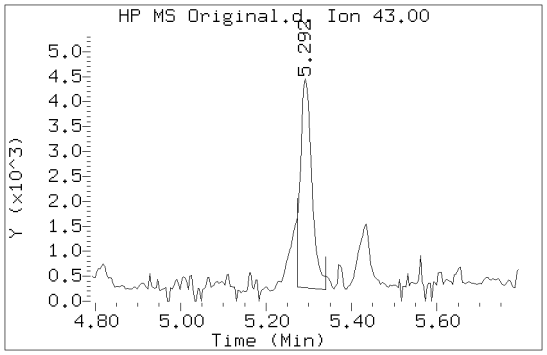


Isobutyl Alcohol (78-83-1)

Reason Code:

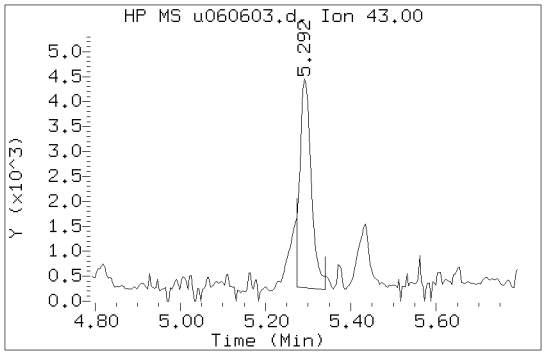
BEFORE

MASS
43
AREA
8062
HEIGHT
4185
08-Jun-2023
14:56
linh
pham



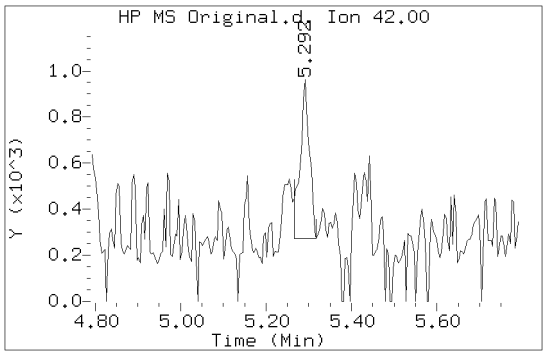
AFTER

MASS
43
AREA
8062
HEIGHT
4185
21-Jun-2023
13:47
linh
pha



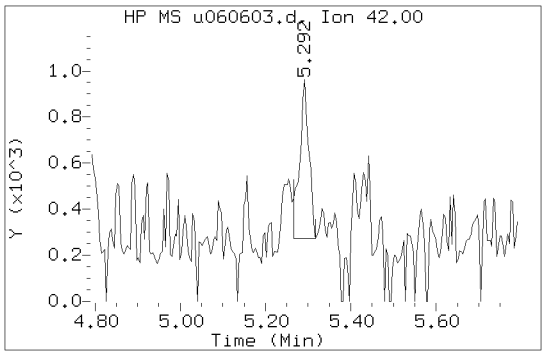
BEFORE

MASS
42
AREA
1073
HEIGHT
689
08-Jun-2023
14:56
linh
pham



AFTER

MASS
42
AREA
1073
HEIGHT
689
21-Jun-2023
13:47
linh
pha



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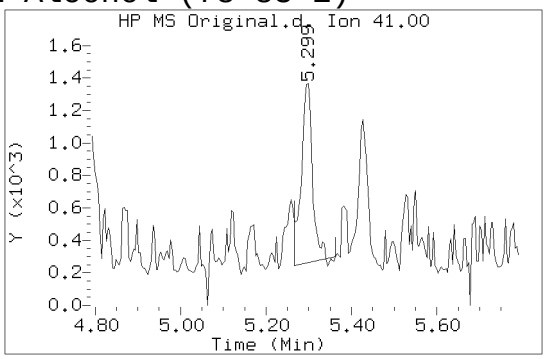
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Isobutyl Alcohol (78-83-1)

Reason Code:

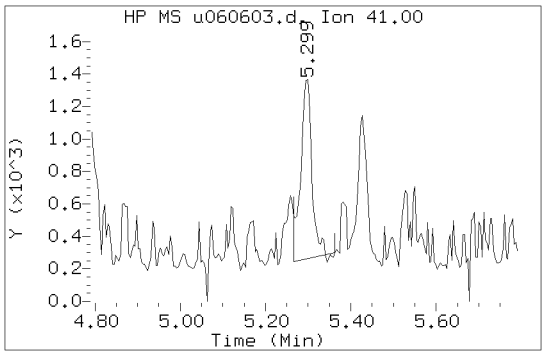
BEFORE

MASS
41
AREA
2043
HEIGHT
1100
08-Jun-2023
14:56
linh
pham



AFTER

MASS
41
AREA
2043
HEIGHT
1100
21-Jun-2023
13:47
linh
pha

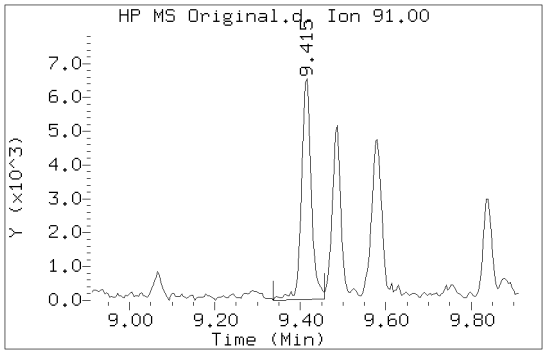


n-Propylbenzene (106-65-1)

Reason Code:

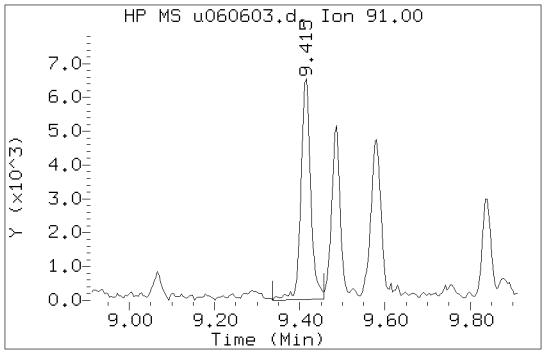
BEFORE

MASS
91
AREA
10721
HEIGHT
6532
08-Jun-2023
14:56
linh
pham



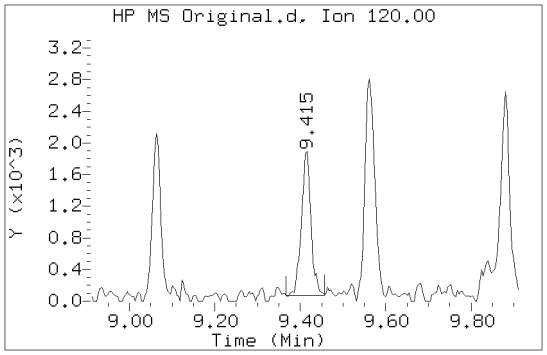
AFTER

MASS
91
AREA
10721
HEIGHT
6532
21-Jun-2023
13:47
linh
pha



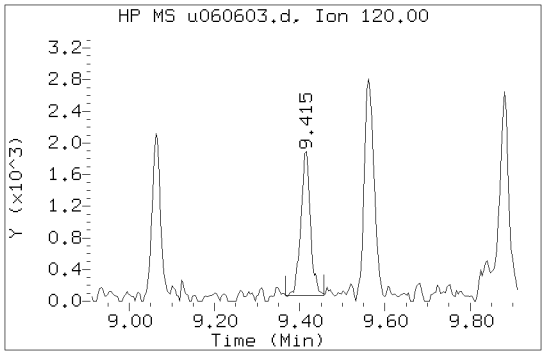
BEFORE

MASS
120
AREA
2911
HEIGHT
1823
08-Jun-2023
14:56
linh
pham



AFTER

MASS
120
AREA
2911
HEIGHT
1823
21-Jun-2023
13:47
linh
pha

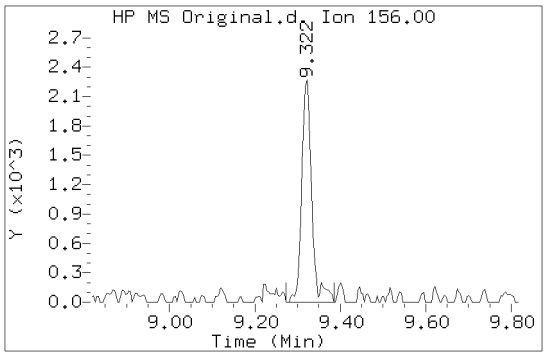


Bromobenzene (108-86-1)

Reason Code:

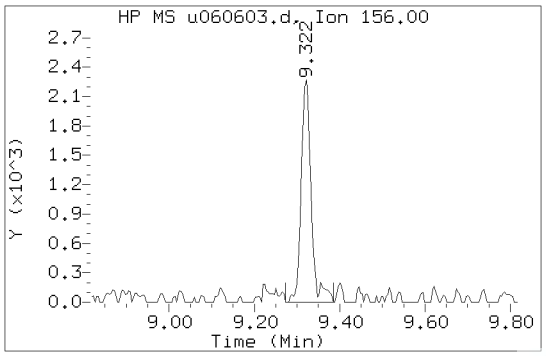
BEFORE

MASS
156
AREA
3800
HEIGHT
2270
08-Jun-2023
14:56
linh
pham



AFTER

MASS
156
AREA
3800
HEIGHT
2270
21-Jun-2023
13:47
linh
pha



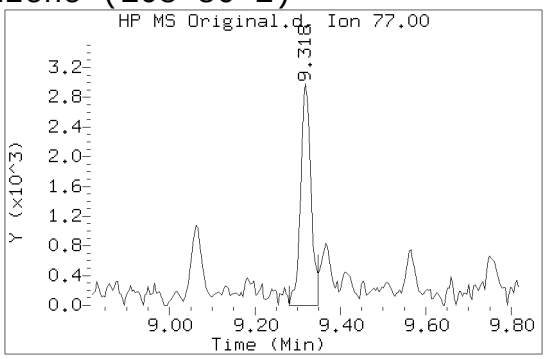
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Bromobenzene (108-86-1)

Reason Code:

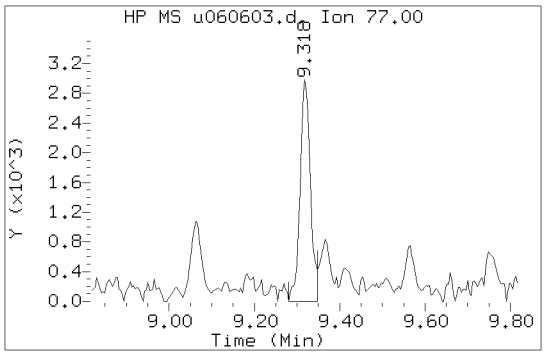
BEFORE

MASS
77
AREA
5137
HEIGHT
2983
08-Jun-2023
14:56
linh
pham



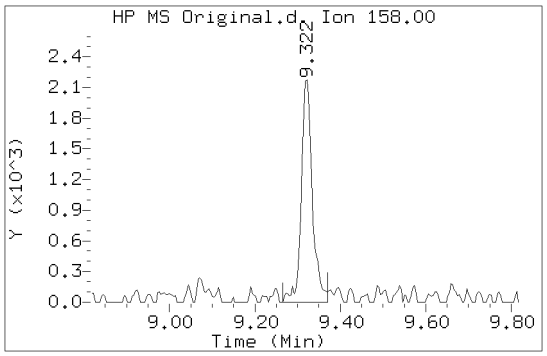
AFTER

MASS
77
AREA
5137
HEIGHT
2983
21-Jun-2023
13:47
linh
pha



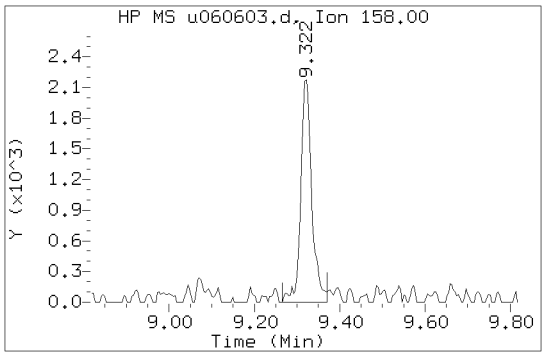
BEFORE

MASS
158
AREA
4021
HEIGHT
2175
08-Jun-2023
14:56
linh
pham



AFTER

MASS
158
AREA
4021
HEIGHT
2175
21-Jun-2023
13:47
linh
pha

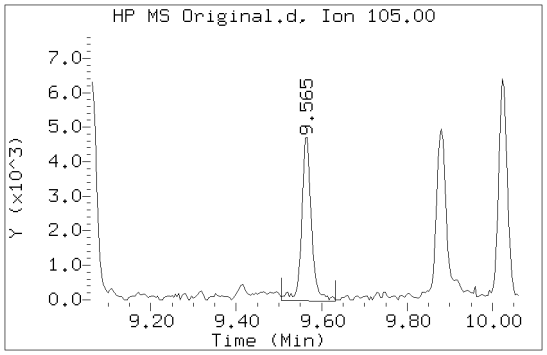


1,3,5-Trimethylbenzene (108-67-8)

Reason Code:

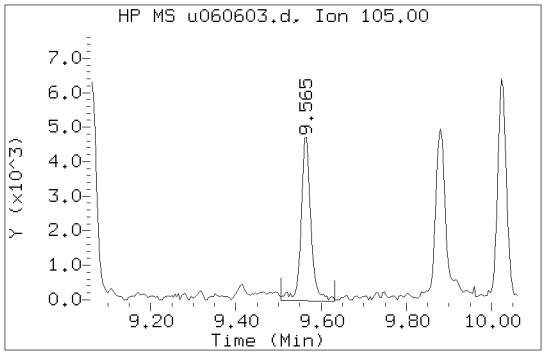
BEFORE

MASS
105
AREA
7820
HEIGHT
4732
08-Jun-2023
14:56
linh
pham



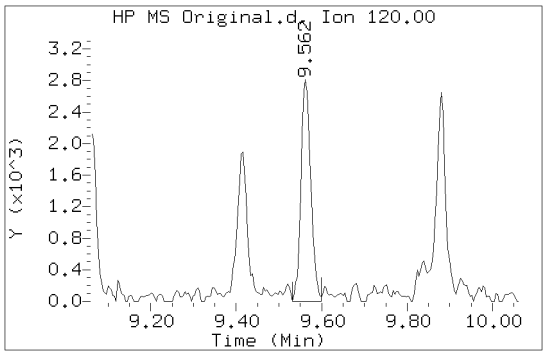
AFTER

MASS
105
AREA
7820
HEIGHT
4732
21-Jun-2023
13:47
linh
pha



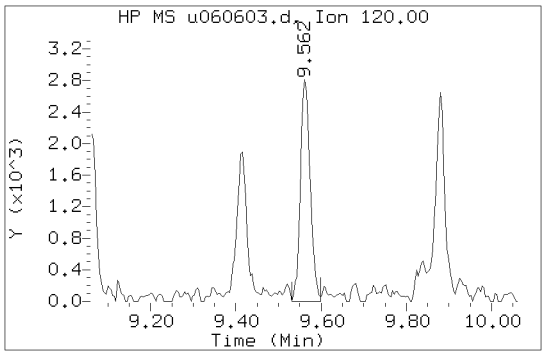
BEFORE

MASS
120
AREA
4592
HEIGHT
2810
08-Jun-2023
14:56
linh
pham



AFTER

MASS
120
AREA
4592
HEIGHT
2810
21-Jun-2023
13:47
linh
pha



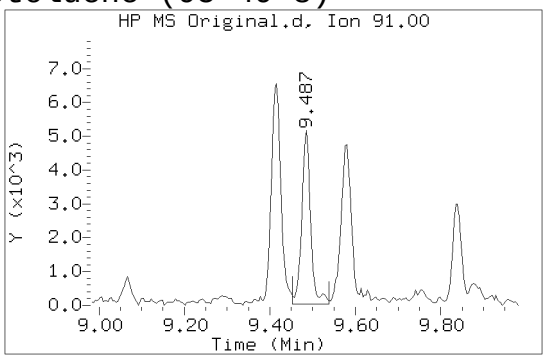
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

2-Chlorotoluene (95-49-8)

Reason Code:

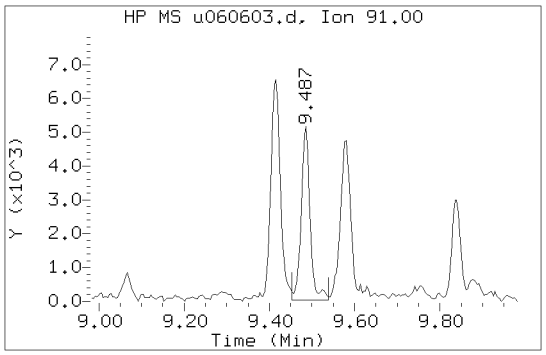
BEFORE

MASS
91
AREA
7551
HEIGHT
5138
08-Jun-2023
14:56
linh
pham



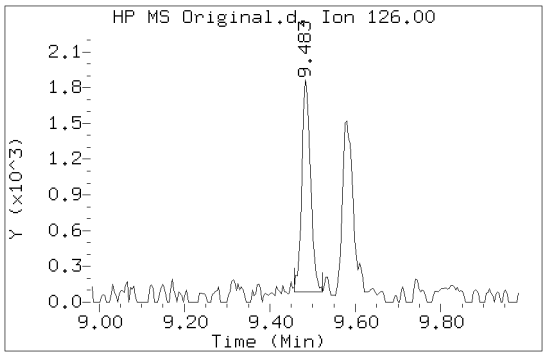
AFTER

MASS
91
AREA
7551
HEIGHT
5138
21-Jun-2023
13:47
linh
pha



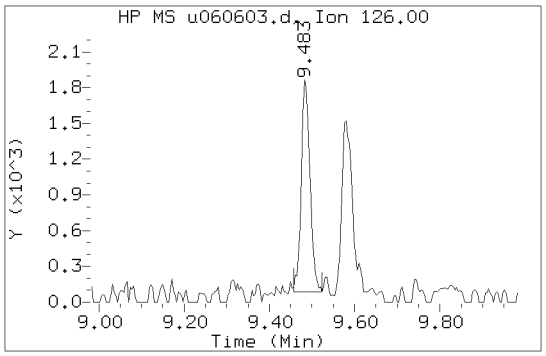
BEFORE

MASS
126
AREA
2589
HEIGHT
1779
08-Jun-2023
14:56
linh
pham



AFTER

MASS
126
AREA
2589
HEIGHT
1779
21-Jun-2023
13:47
linh
pha

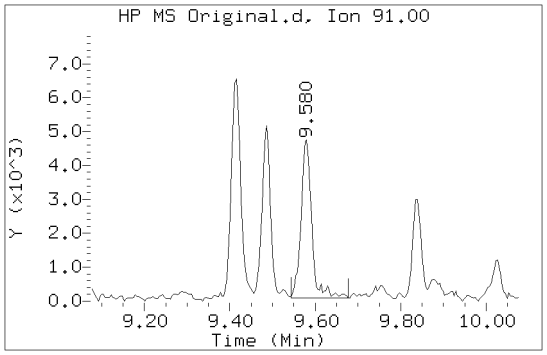


4-Chlorotoluene (106-43-4)

Reason Code:

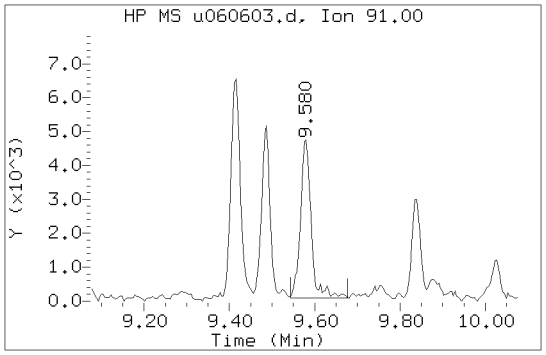
BEFORE

MASS
91
AREA
8243
HEIGHT
4662
08-Jun-2023
14:56
linh
pham



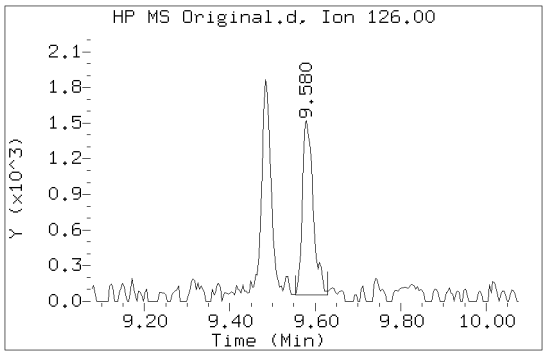
AFTER

MASS
91
AREA
8243
HEIGHT
4662
21-Jun-2023
13:47
linh
pha



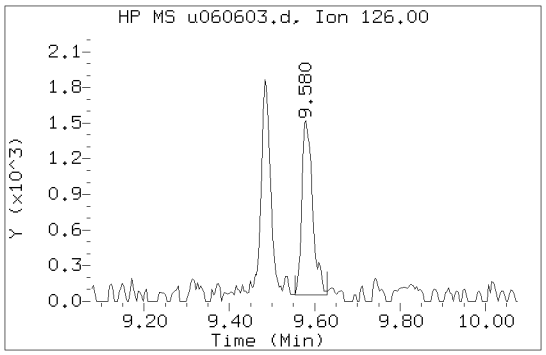
BEFORE

MASS
126
AREA
2606
HEIGHT
1467
08-Jun-2023
14:56
linh
pham



AFTER

MASS
126
AREA
2606
HEIGHT
1467
21-Jun-2023
13:47
linh
pha



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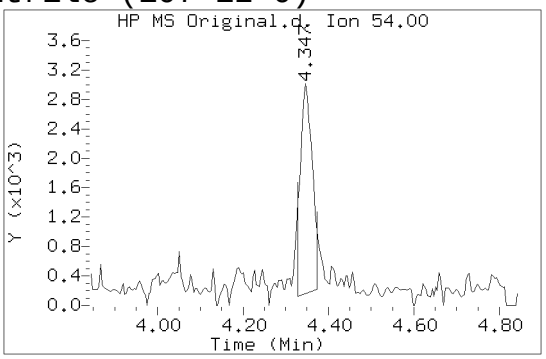
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Propionitrile (107-12-0)

Reason Code:

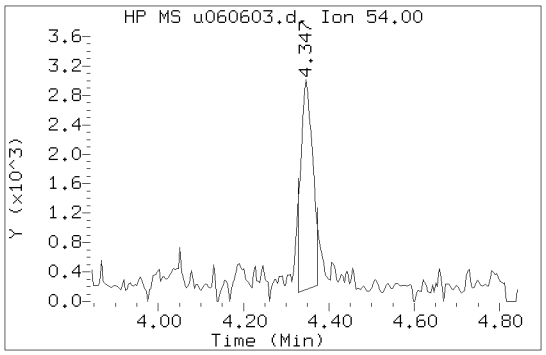
BEFORE

MASS
54
AREA
5579
HEIGHT
2848
08-Jun-2023
14:56
linh
pham



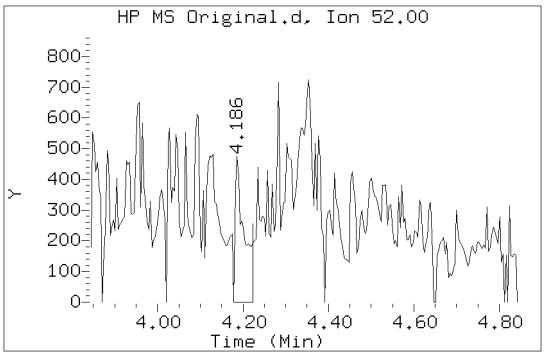
AFTER

MASS
54
AREA
5579
HEIGHT
2848
21-Jun-2023
13:47
linh
pha



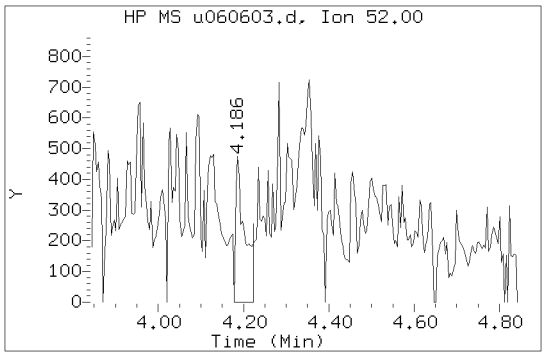
BEFORE

MASS
52
AREA
706
HEIGHT
475
08-Jun-2023
14:56
linh
pham



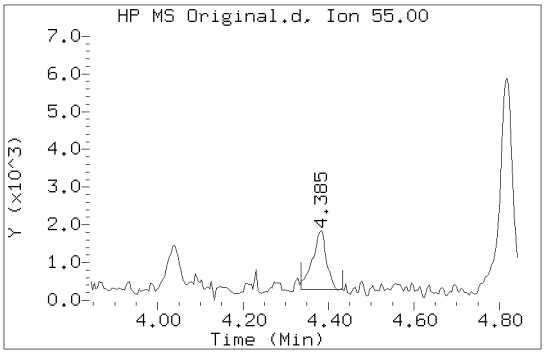
AFTER

MASS
52
AREA
706
HEIGHT
475
21-Jun-2023
13:47
linh
pha



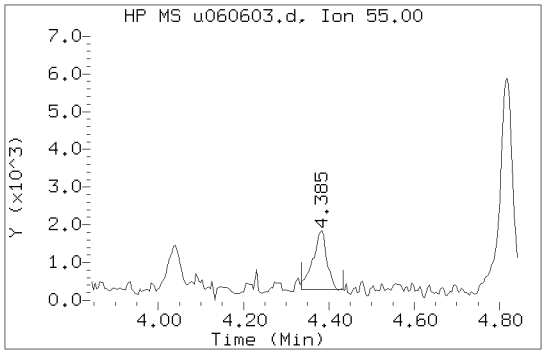
BEFORE

MASS
55
AREA
3548
HEIGHT
1559
08-Jun-2023
14:56
linh
pham



AFTER

MASS
55
AREA
3548
HEIGHT
1559
21-Jun-2023
13:47
linh
pha

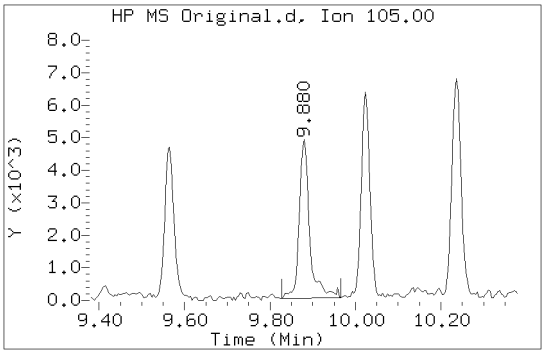


1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

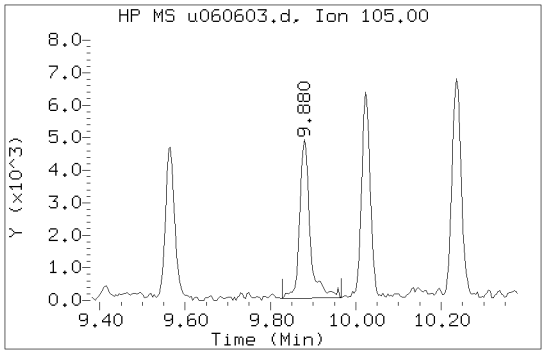
BEFORE

MASS
105
AREA
8548
HEIGHT
4875
08-Jun-2023
14:56
linh
pham



AFTER

MASS
105
AREA
8548
HEIGHT
4875
21-Jun-2023
13:47
linh
pha



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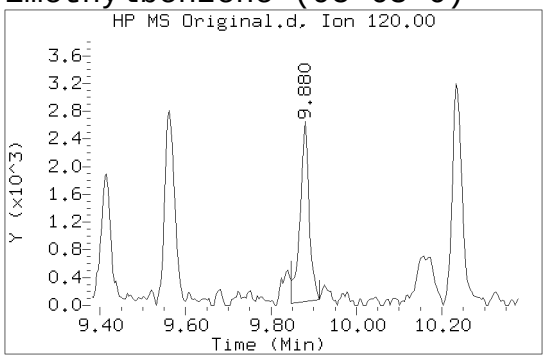
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

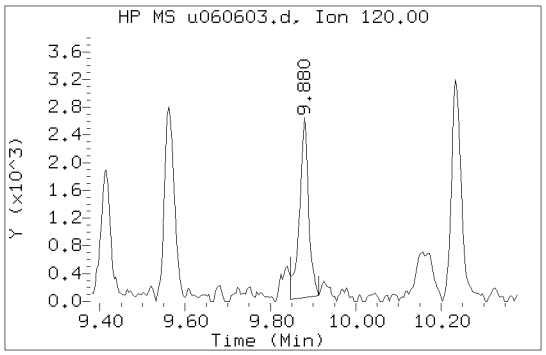
BEFORE

MASS
120
AREA
3975
HEIGHT
2592
08-Jun-2023
14:56
linh
pham



AFTER

MASS
120
AREA
3975
HEIGHT
2592
21-Jun-2023
13:47
linh
pha

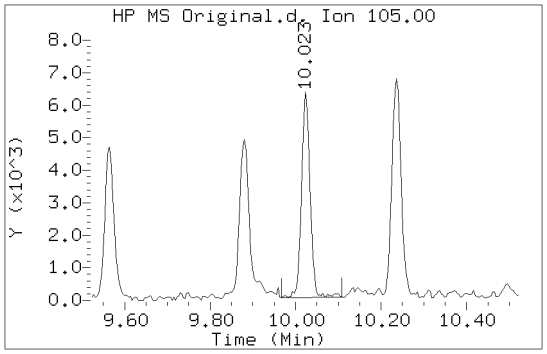


sec-Butylbenzene (135-98-8)

Reason Code:

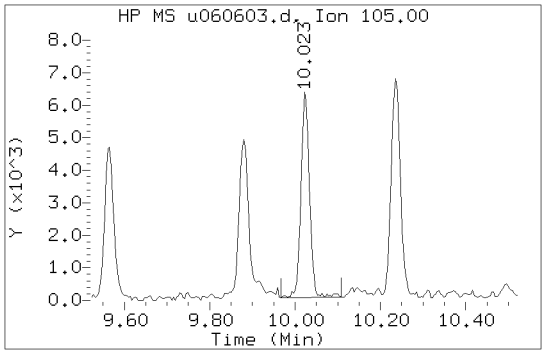
BEFORE

MASS
105
AREA
9131
HEIGHT
6310
08-Jun-2023
14:56
linh
pham



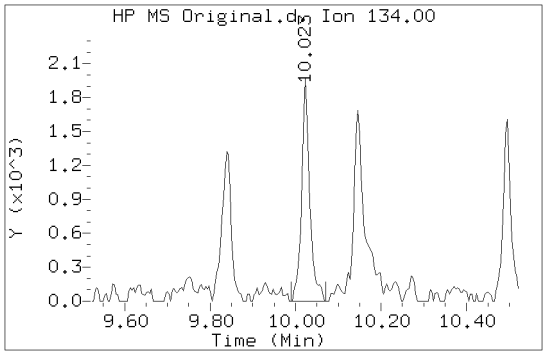
AFTER

MASS
105
AREA
9131
HEIGHT
6310
21-Jun-2023
13:47
linh
pha



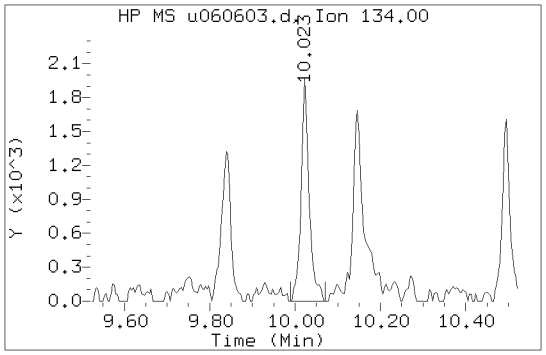
BEFORE

MASS
134
AREA
2687
HEIGHT
1965
08-Jun-2023
14:56
linh
pham



AFTER

MASS
134
AREA
2687
HEIGHT
1965
21-Jun-2023
13:47
linh
pha

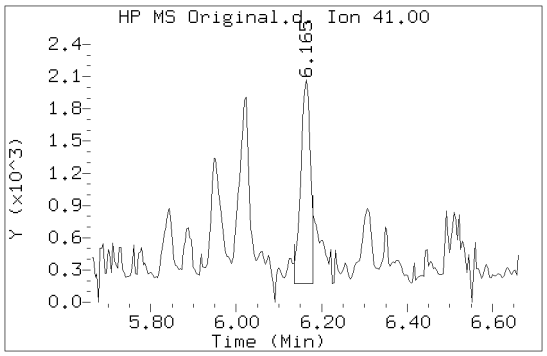


Methyl Methacrylate (80-62-6)

Reason Code:

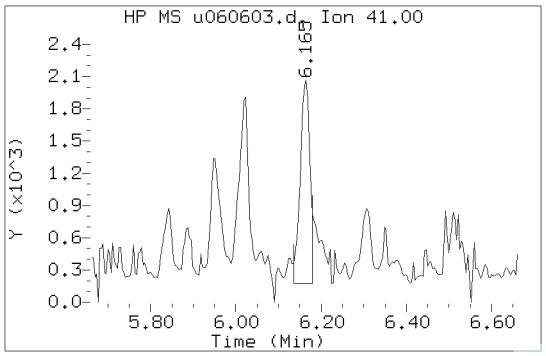
BEFORE

MASS
41
AREA
3083
HEIGHT
1894
08-Jun-2023
14:56
linh
pham



AFTER

MASS
41
AREA
3083
HEIGHT
1894
21-Jun-2023
13:47
linh
pha



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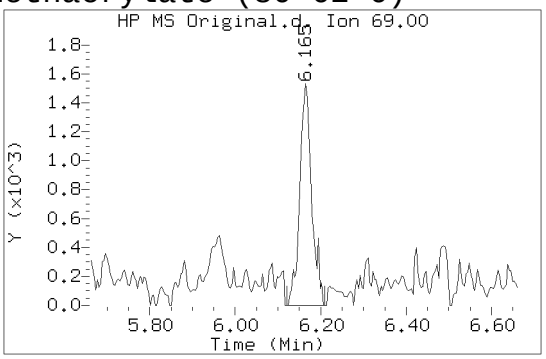
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Methyl Methacrylate (80-62-6)

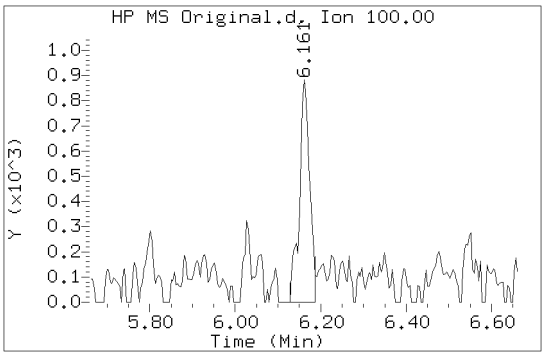
BEFORE

MASS
69
AREA
3017
HEIGHT
1532
08-Jun-2023
14:56
linh
pham



BEFORE

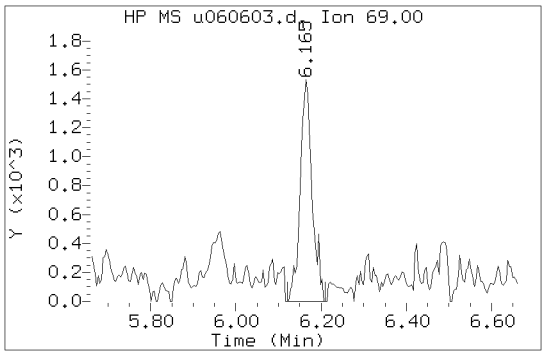
MASS
100
AREA
1506
HEIGHT
882
08-Jun-2023
14:56
linh
pham



Reason Code:

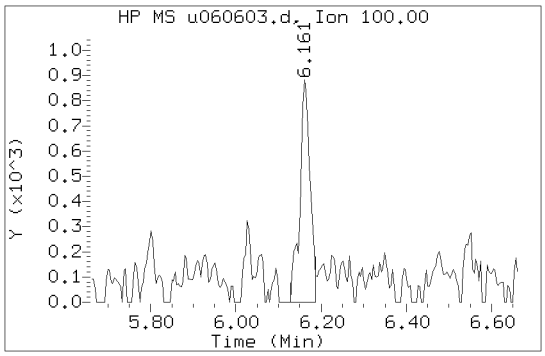
AFTER

MASS
69
AREA
3017
HEIGHT
1532
21-Jun-2023
13:47
linh
pha



AFTER

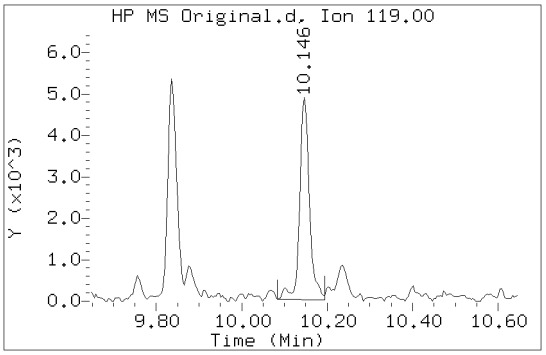
MASS
100
AREA
1506
HEIGHT
882
21-Jun-2023
13:47
linh
pha



p-Isopropyltoluene (99-87-6)

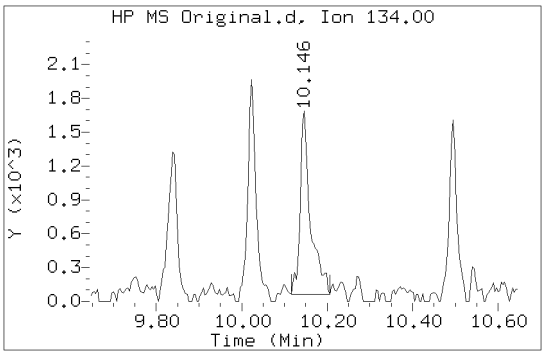
BEFORE

MASS
119
AREA
7969
HEIGHT
4880
08-Jun-2023
14:56
linh
pham



BEFORE

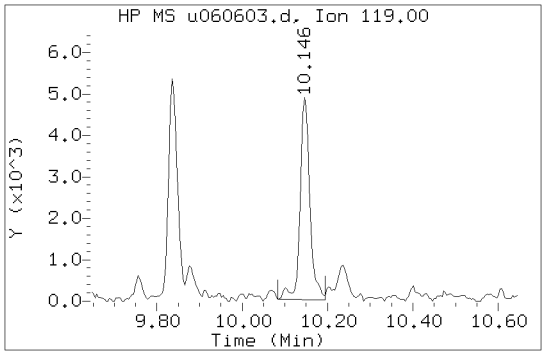
MASS
134
AREA
2795
HEIGHT
1627
08-Jun-2023
14:56
linh
pham



Reason Code:

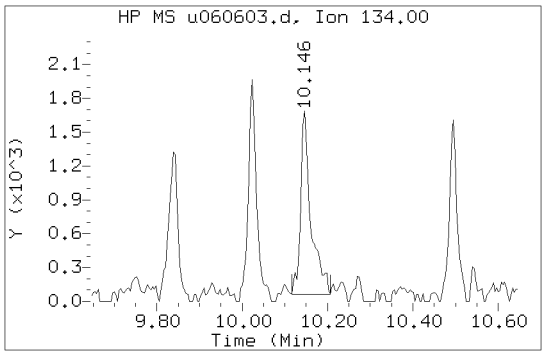
AFTER

MASS
119
AREA
7969
HEIGHT
4880
21-Jun-2023
13:47
linh
pha



AFTER

MASS
134
AREA
2795
HEIGHT
1627
21-Jun-2023
13:47
linh
pha



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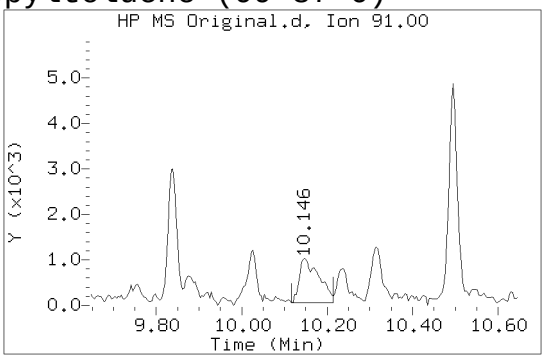
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

p-Isopropyltoluene (99-87-6)

Reason Code:

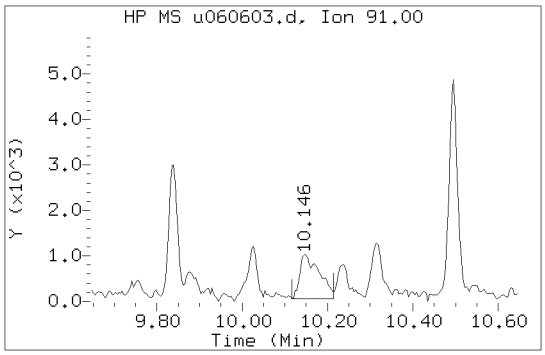
BEFORE

MASS
91
AREA
3125
HEIGHT
970
08-Jun-2023
14:56
linh
pham



AFTER

MASS
91
AREA
3125
HEIGHT
970
21-Jun-2023
13:47
linh
pha

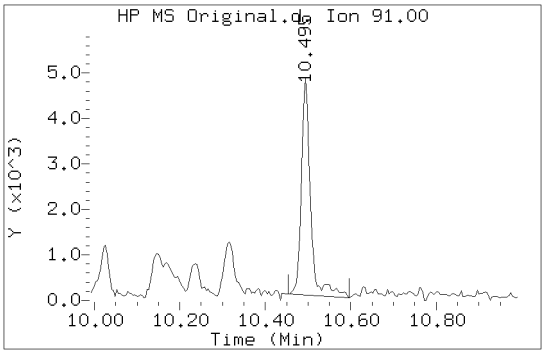


n-Butylbenzene (104-51-8)

Reason Code:

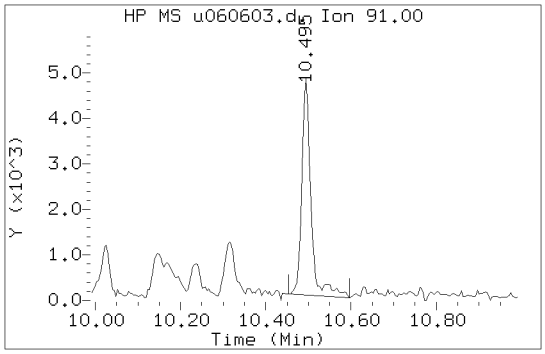
BEFORE

MASS
91
AREA
7213
HEIGHT
4758
08-Jun-2023
14:56
linh
pham



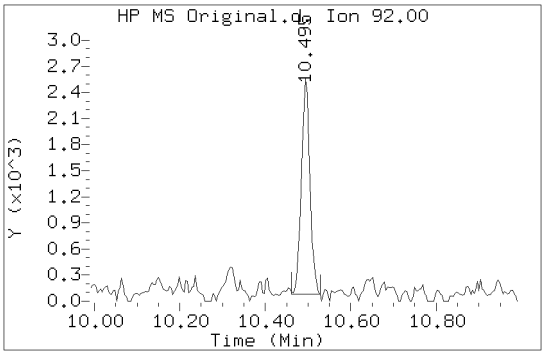
AFTER

MASS
91
AREA
7213
HEIGHT
4758
21-Jun-2023
13:47
linh
pha



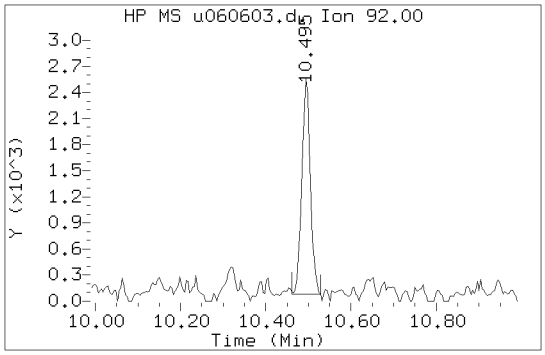
BEFORE

MASS
92
AREA
3472
HEIGHT
2472
08-Jun-2023
14:56
linh
pham



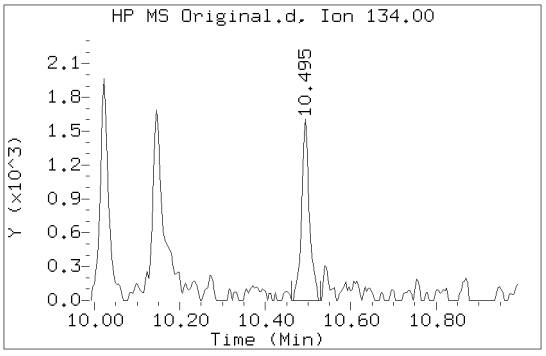
AFTER

MASS
92
AREA
3472
HEIGHT
2472
21-Jun-2023
13:47
linh
pha



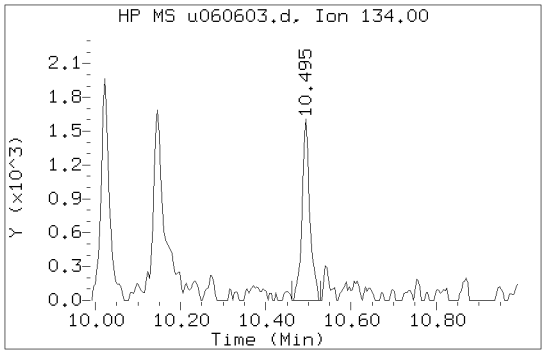
BEFORE

MASS
134
AREA
2070
HEIGHT
1610
08-Jun-2023
14:56
linh
pham



AFTER

MASS
134
AREA
2070
HEIGHT
1610
21-Jun-2023
13:47
linh
pha



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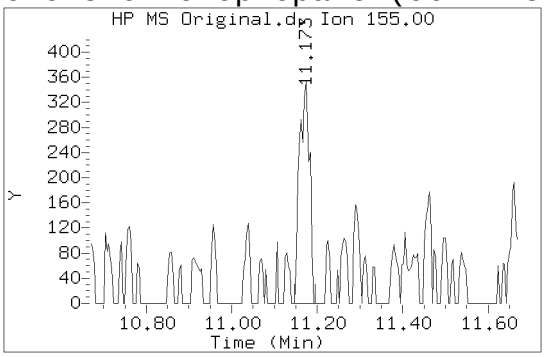
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

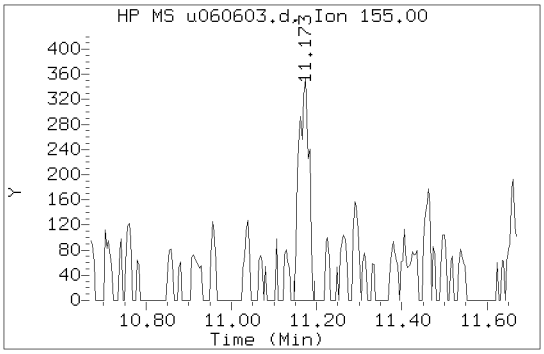
1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

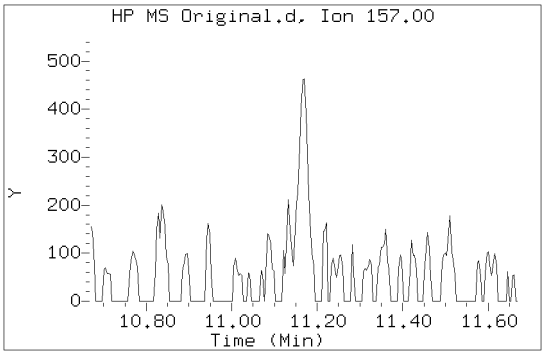
BEFORE
MASS
155
AREA
589
HEIGHT
353
08-Jun-2023
14:56
linh
pham



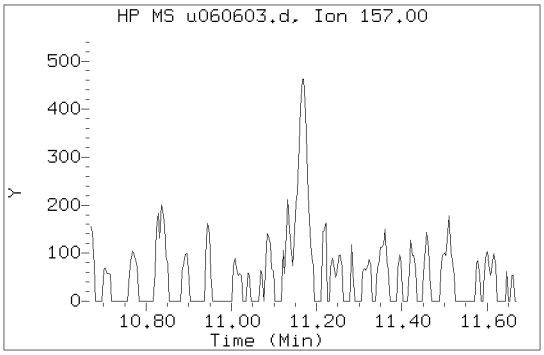
AFTER
MASS
155
AREA
589
HEIGHT
353
21-Jun-2023
13:47
linh
pha



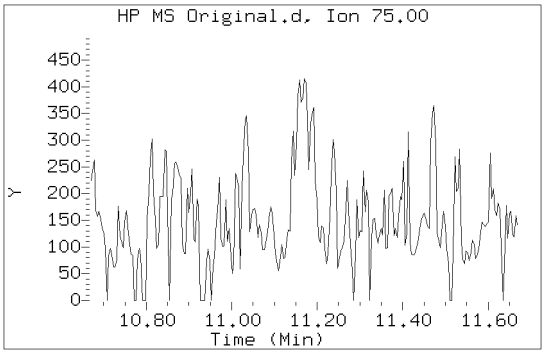
BEFORE
MASS
157
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



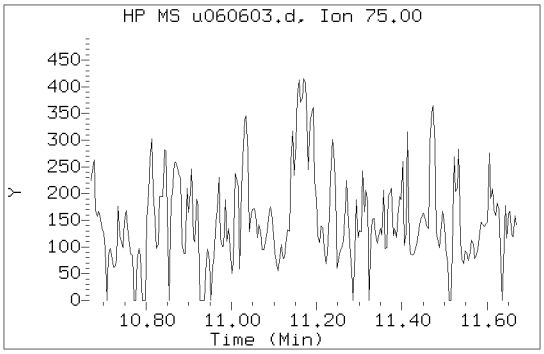
AFTER
MASS
157
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
75
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



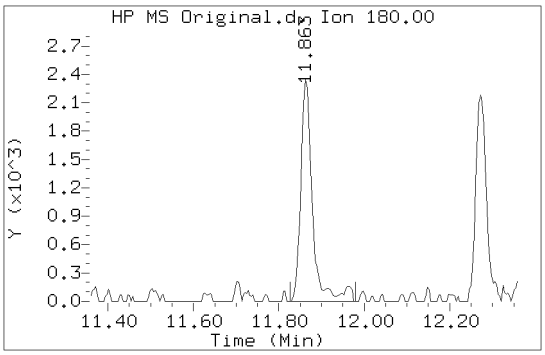
AFTER
MASS
75
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



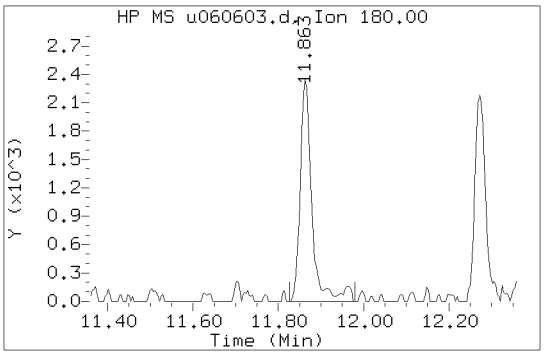
1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

BEFORE
MASS
180
AREA
4551
HEIGHT
2344
08-Jun-2023
14:56
linh
pham



AFTER
MASS
180
AREA
4551
HEIGHT
2344
21-Jun-2023
13:47
linh
pha



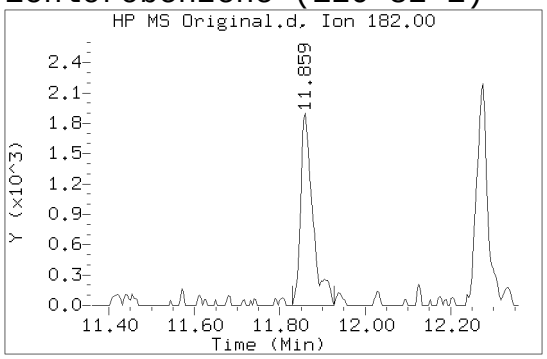
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

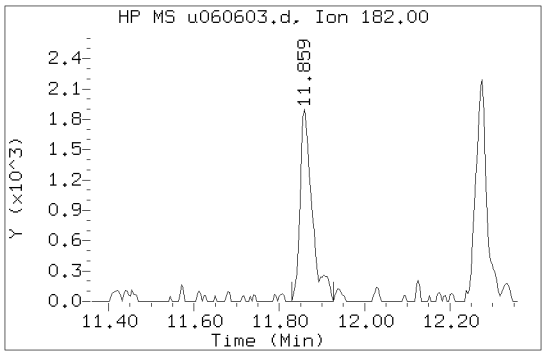
BEFORE

MASS
182
AREA
3811
HEIGHT
1898
08-Jun-2023
14:56
linh
pham



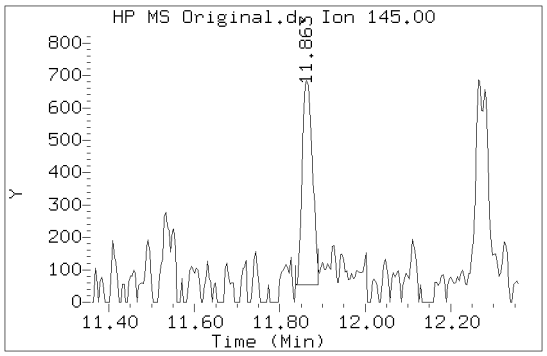
AFTER

MASS
182
AREA
3811
HEIGHT
1898
21-Jun-2023
13:47
linh
pha



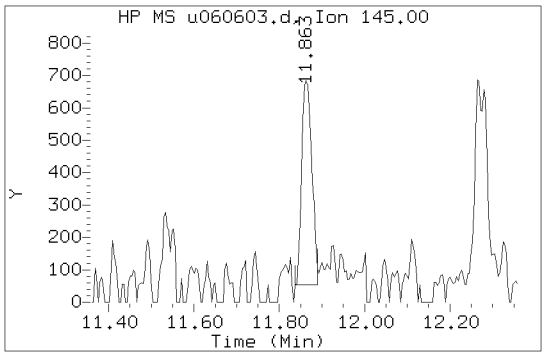
BEFORE

MASS
145
AREA
1065
HEIGHT
632
08-Jun-2023
14:56
linh
pham



AFTER

MASS
145
AREA
1065
HEIGHT
632
21-Jun-2023
13:47
linh
pha

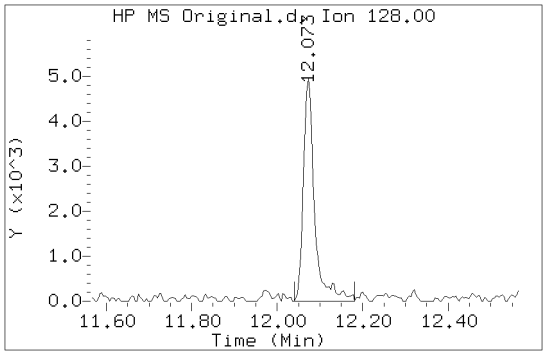


Naphthalene (91-20-3)

Reason Code:

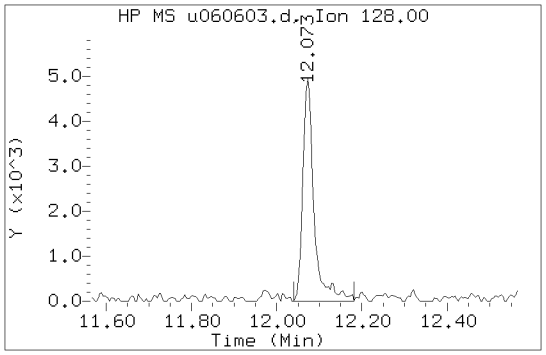
BEFORE

MASS
128
AREA
9156
HEIGHT
4939
08-Jun-2023
14:56
linh
pham



AFTER

MASS
128
AREA
9156
HEIGHT
4939
21-Jun-2023
13:47
linh
pha

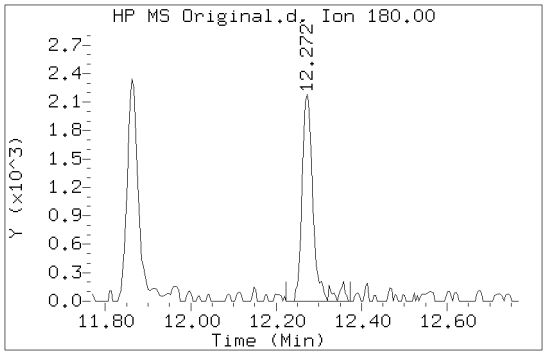


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

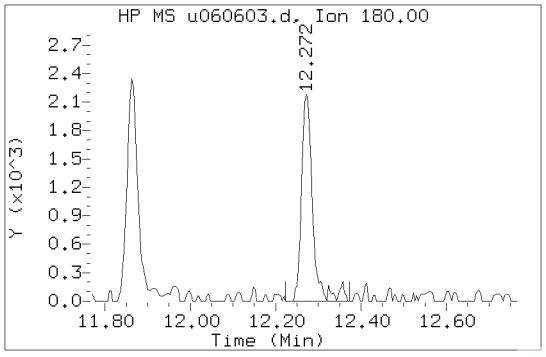
BEFORE

MASS
180
AREA
4090
HEIGHT
2185
08-Jun-2023
14:56
linh
pham



AFTER

MASS
180
AREA
4090
HEIGHT
2185
21-Jun-2023
13:47
linh
pha



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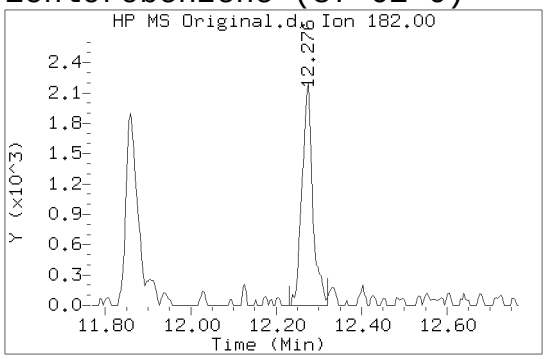
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

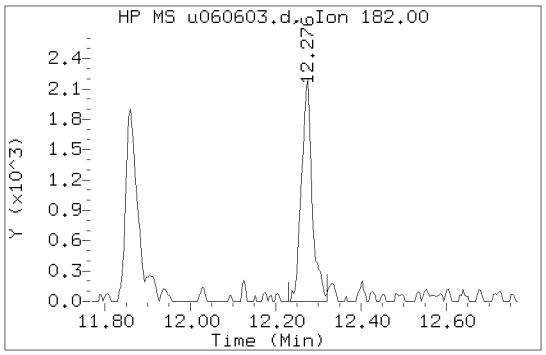
BEFORE

MASS
182
AREA
3923
HEIGHT
2191
08-Jun-2023
14:56
linh
pham



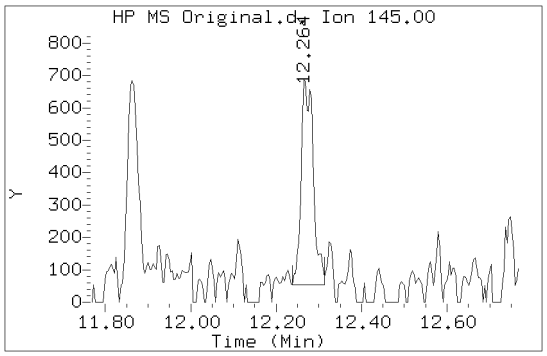
AFTER

MASS
182
AREA
3923
HEIGHT
2191
21-Jun-2023
13:47
linh
pha



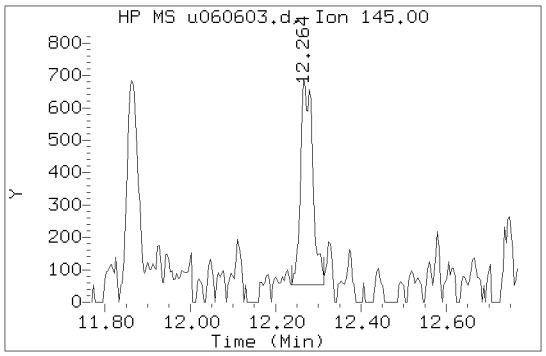
BEFORE

MASS
145
AREA
1275
HEIGHT
633
08-Jun-2023
14:56
linh
pham



AFTER

MASS
145
AREA
1275
HEIGHT
633
21-Jun-2023
13:47
linh
pha

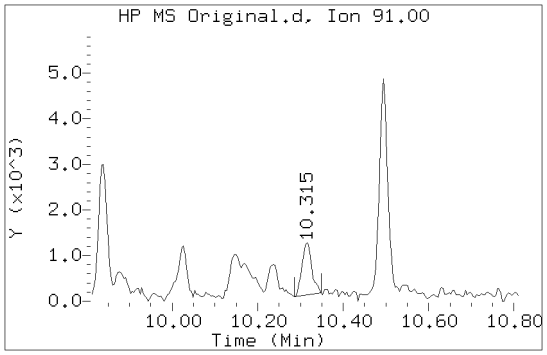


Benzyl Chloride (100-44-7)

Reason Code:

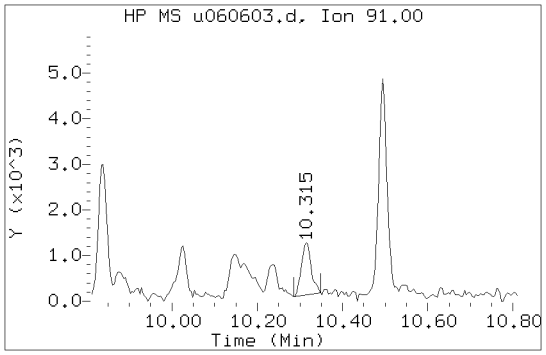
BEFORE

MASS
91
AREA
1867
HEIGHT
1136
08-Jun-2023
14:56
linh
pham



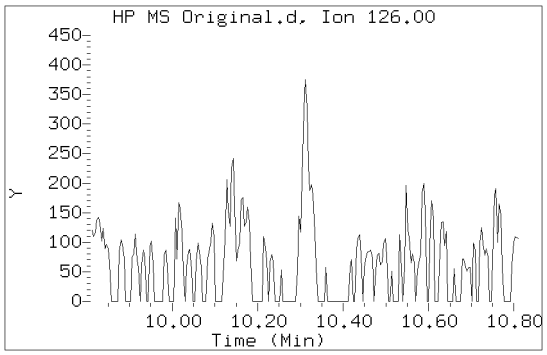
AFTER

MASS
91
AREA
1867
HEIGHT
1136
21-Jun-2023
13:47
linh
pha



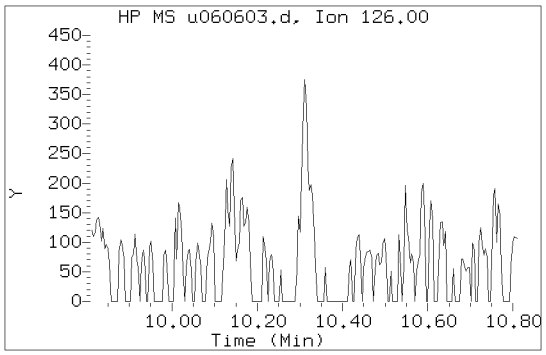
BEFORE

MASS
126
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
126
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



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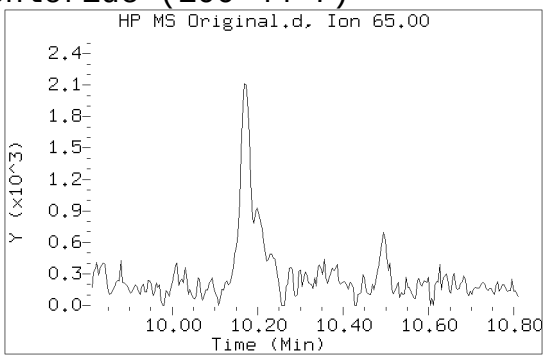
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Benzyl Chloride (100-44-7)

Reason Code:

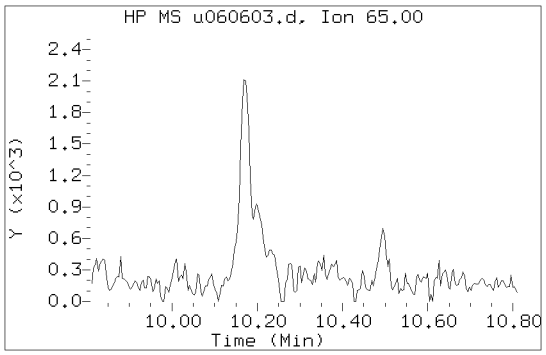
BEFORE

MASS
65
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
65
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

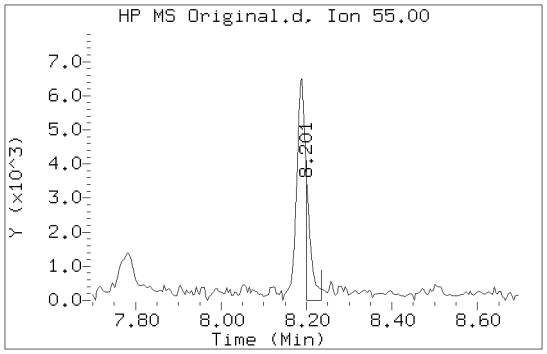


1-Chlorohexane (544-10-5)

Reason Code:

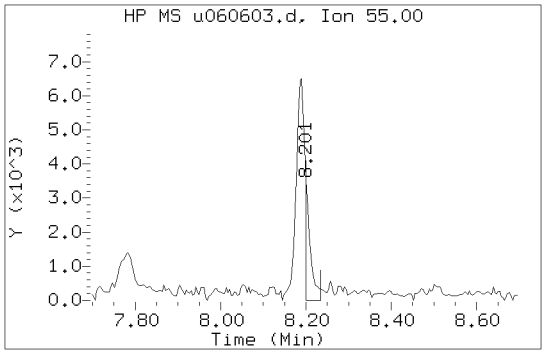
BEFORE

MASS
55
AREA
2785
HEIGHT
3524
08-Jun-2023
14:56
linh
pham



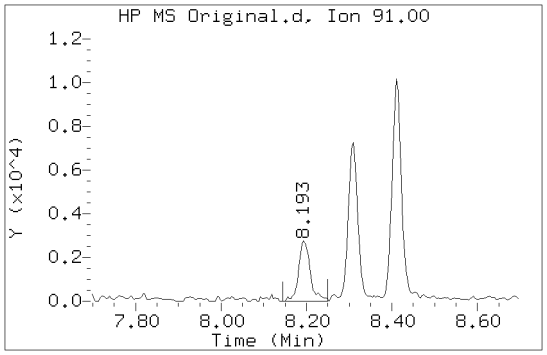
AFTER

MASS
55
AREA
2785
HEIGHT
3524
21-Jun-2023
13:47
linh
pha



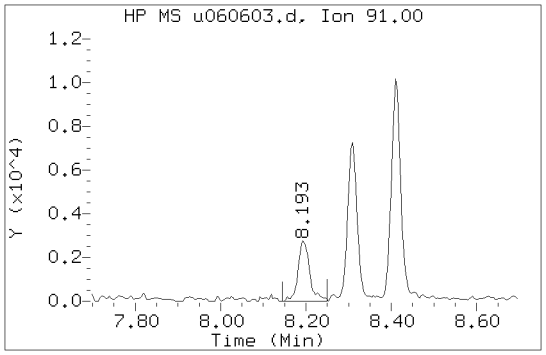
BEFORE

MASS
91
AREA
5394
HEIGHT
2762
08-Jun-2023
14:56
linh
pham



AFTER

MASS
91
AREA
5394
HEIGHT
2762
21-Jun-2023
13:47
linh
pha

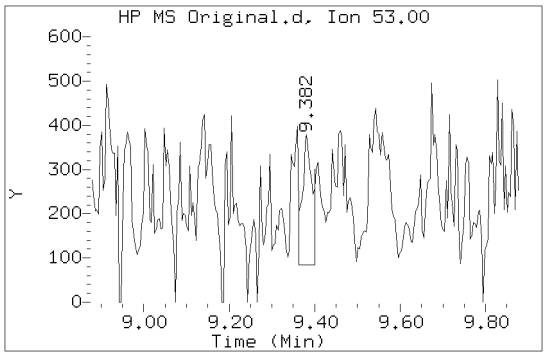


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

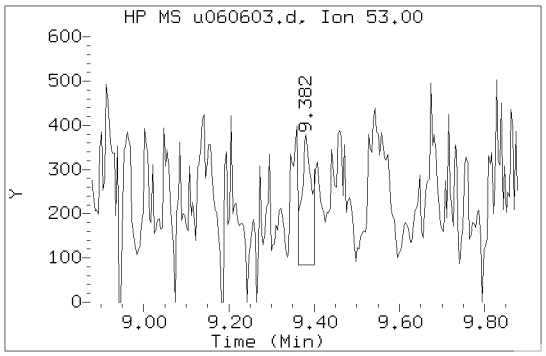
BEFORE

MASS
53
AREA
485
HEIGHT
296
08-Jun-2023
14:56
linh
pham



AFTER

MASS
53
AREA
485
HEIGHT
296
21-Jun-2023
13:47
linh
pha



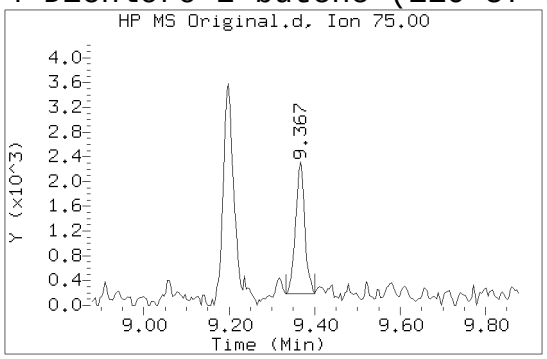
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

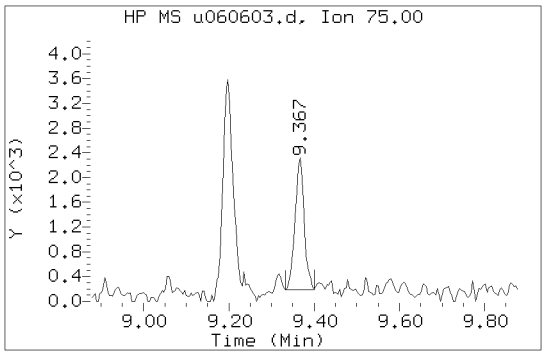
BEFORE

MASS
75
AREA
3241
HEIGHT
2140
08-Jun-2023
14:56
linh
pham



AFTER

MASS
75
AREA
3241
HEIGHT
2140
21-Jun-2023
13:47
linh
pha

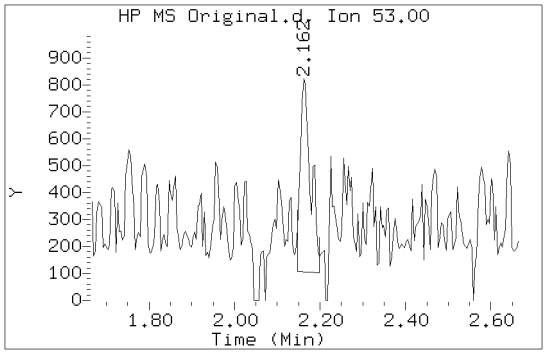


Chloroprene (126-99-8)

Reason Code:

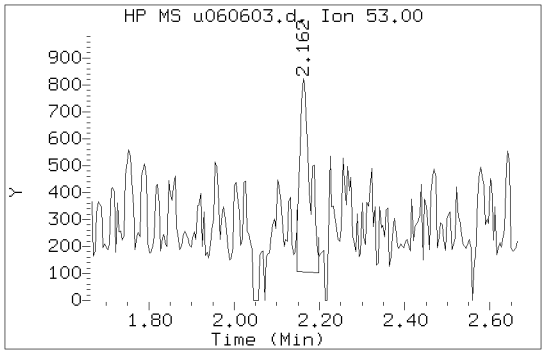
BEFORE

MASS
53
AREA
1260
HEIGHT
717
08-Jun-2023
14:56
linh
pham



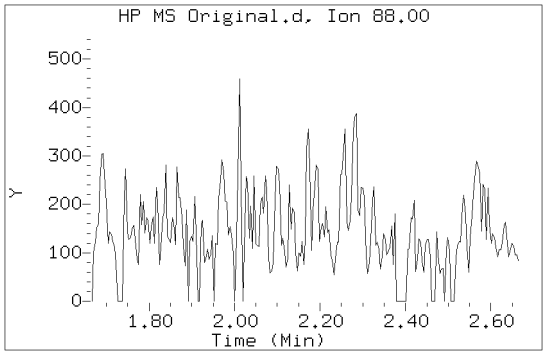
AFTER

MASS
53
AREA
1260
HEIGHT
717
21-Jun-2023
13:47
linh
pha



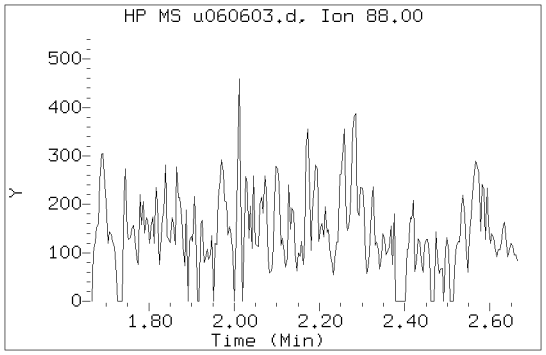
BEFORE

MASS
88
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

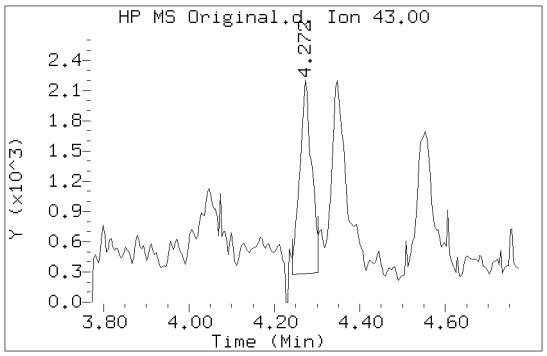


Ethyl Acetate (141-78-6)

Reason Code:

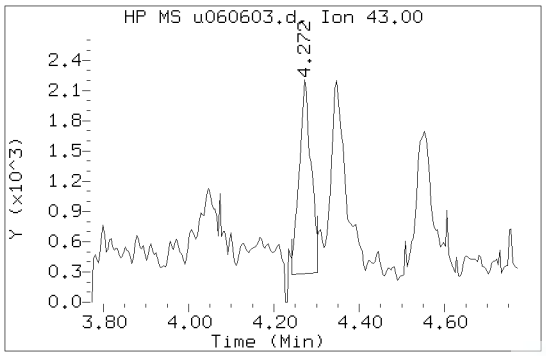
BEFORE

MASS
43
AREA
3781
HEIGHT
1922
08-Jun-2023
14:56
linh
pham



AFTER

MASS
43
AREA
3781
HEIGHT
1922
21-Jun-2023
13:47
linh
pha

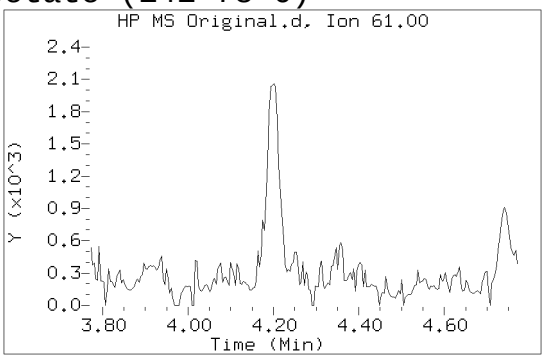


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

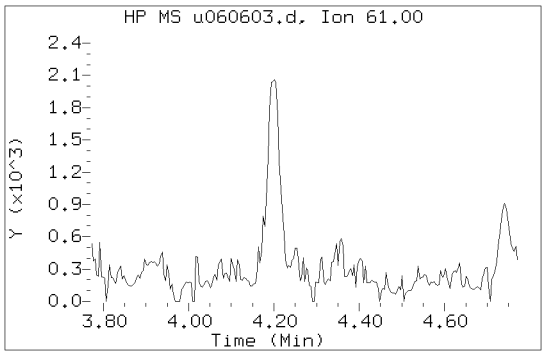
Ethyl Acetate (141-78-6)

Reason Code:

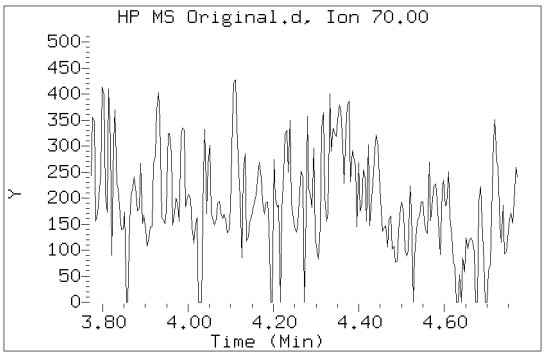
BEFORE
MASS
61
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



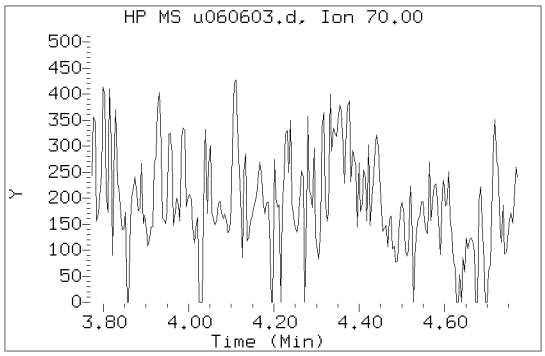
AFTER
MASS
61
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
70
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



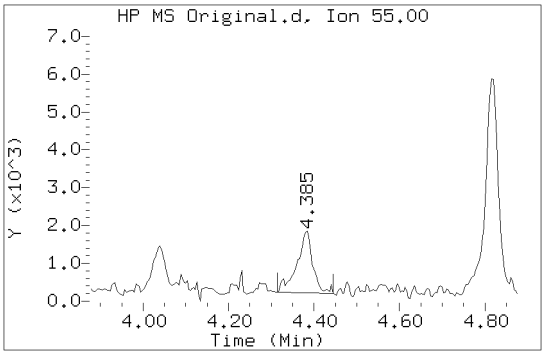
AFTER
MASS
70
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



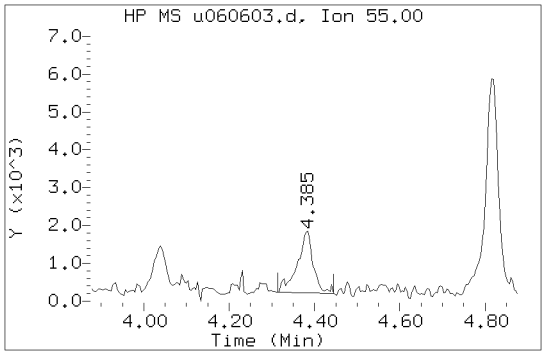
Methyl Acrylate (96-33-3)

Reason Code:

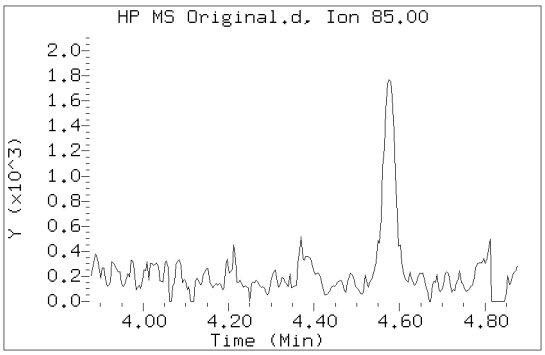
BEFORE
MASS
55
AREA
4302
HEIGHT
1632
08-Jun-2023
14:56
linh
pham



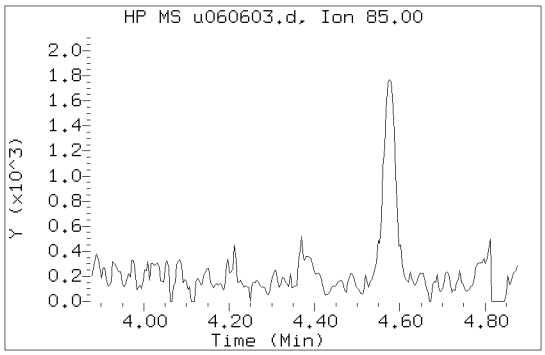
AFTER
MASS
55
AREA
4302
HEIGHT
1632
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
85
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER
MASS
85
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



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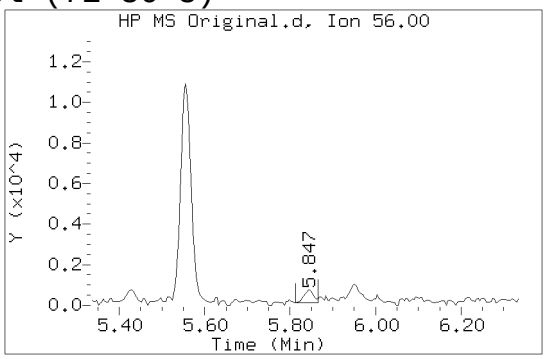
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

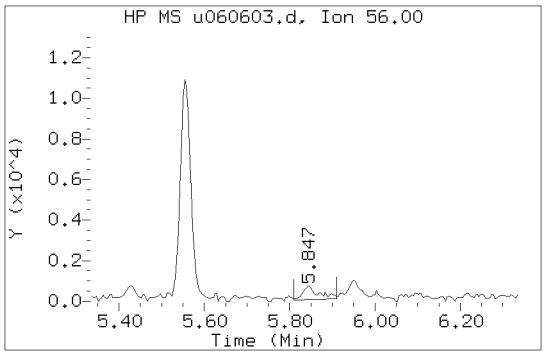
n-Butanol (71-36-3)

Reason Code:

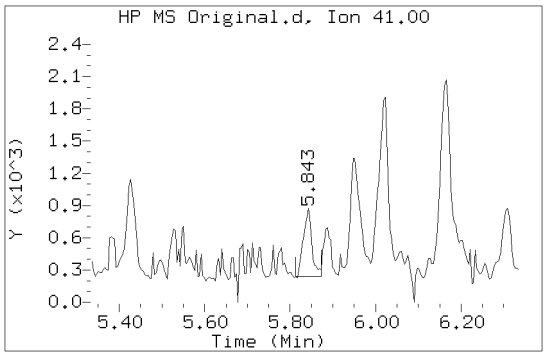
BEFORE
MASS
56
AREA
1032
HEIGHT
628
08-Jun-2023
14:56
linh
pham



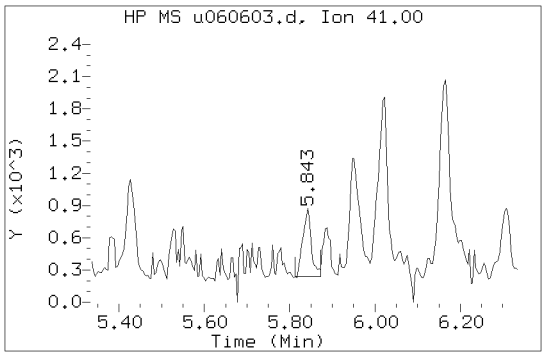
AFTER
MASS
56
AREA
1746
HEIGHT
662
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
41
AREA
903
HEIGHT
633
08-Jun-2023
14:56
linh
pham



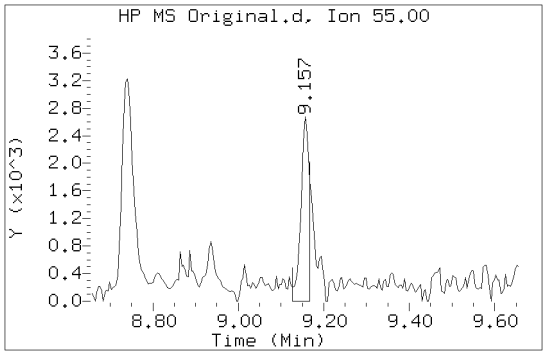
AFTER
MASS
41
AREA
903
HEIGHT
633
21-Jun-2023
13:47
linh
pha



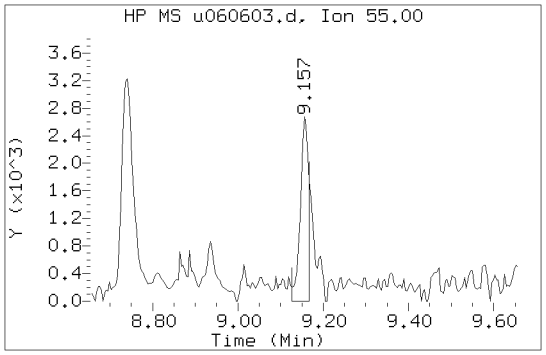
Cyclohexanone (108-94-1)

Reason Code:

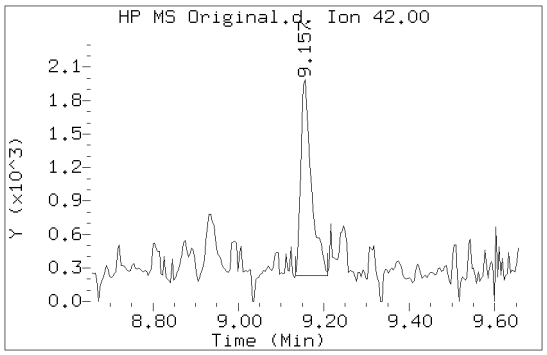
BEFORE
MASS
55
AREA
3642
HEIGHT
2680
08-Jun-2023
14:56
linh
pham



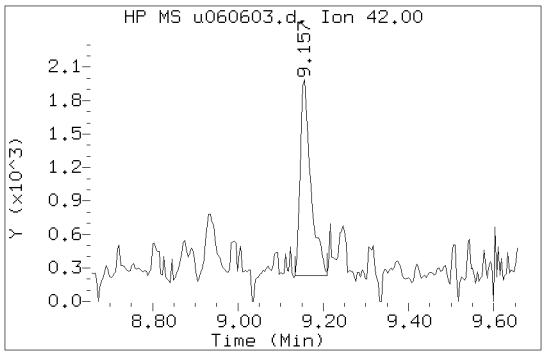
AFTER
MASS
55
AREA
3642
HEIGHT
2680
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
42
AREA
3088
HEIGHT
1757
08-Jun-2023
14:56
linh
pham



AFTER
MASS
42
AREA
3088
HEIGHT
1757
21-Jun-2023
13:47
linh
pha



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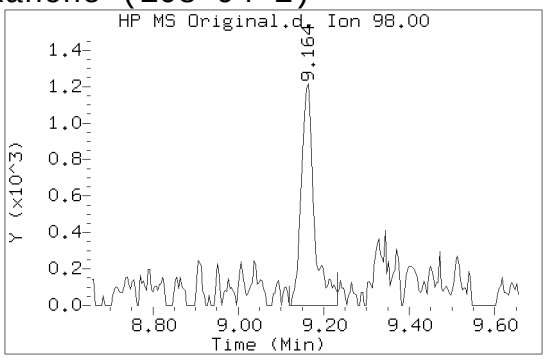
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Cyclohexanone (108-94-1)

Reason Code:

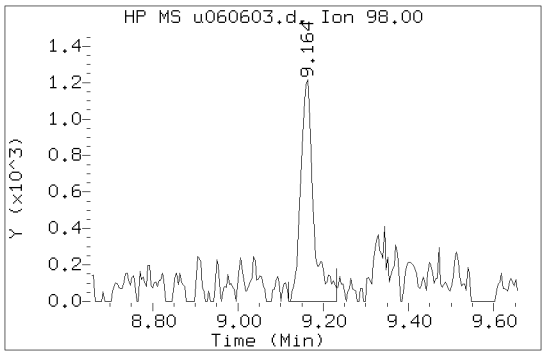
BEFORE

MASS
98
AREA
2606
HEIGHT
1216
08-Jun-2023
14:56
linh
pham



AFTER

MASS
98
AREA
2606
HEIGHT
1216
21-Jun-2023
13:47
linh
pha

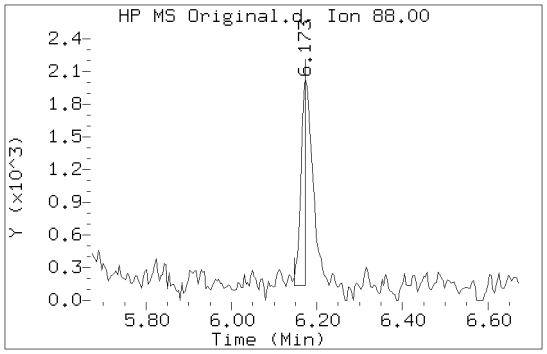


1,4-Dioxane ()

Reason Code:

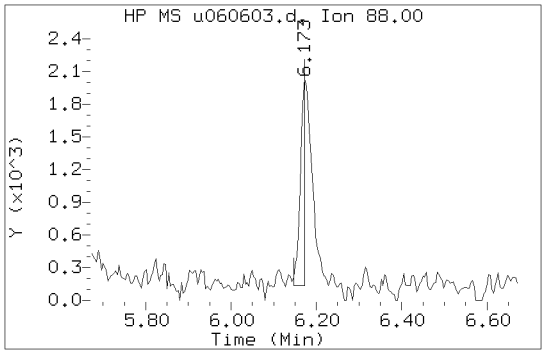
BEFORE

MASS
88
AREA
1567
HEIGHT
1901
08-Jun-2023
14:56
linh
pham



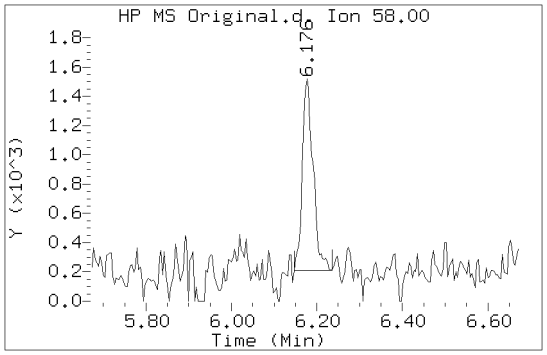
AFTER

MASS
88
AREA
1567
HEIGHT
1901
21-Jun-2023
13:47
linh
pha



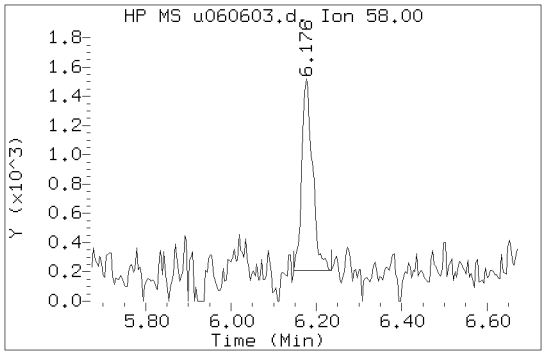
BEFORE

MASS
58
AREA
2344
HEIGHT
1308
08-Jun-2023
14:56
linh
pham



AFTER

MASS
58
AREA
2344
HEIGHT
1308
21-Jun-2023
13:47
linh
pha

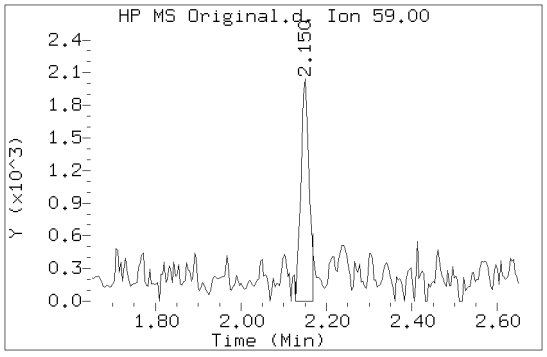


Diethyl ether (60-29-7)

Reason Code:

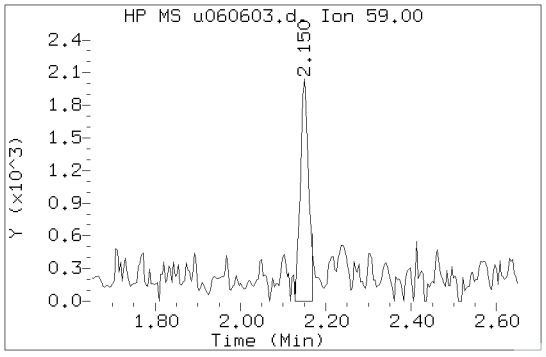
BEFORE

MASS
59
AREA
2812
HEIGHT
2042
08-Jun-2023
14:56
linh
pham



AFTER

MASS
59
AREA
2812
HEIGHT
2042
21-Jun-2023
13:47
linh
pha



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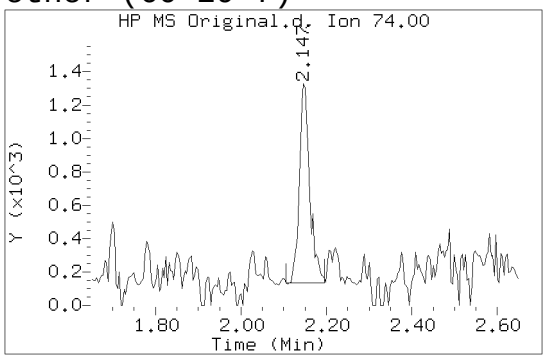
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Diethyl ether (60-29-7)

Reason Code:

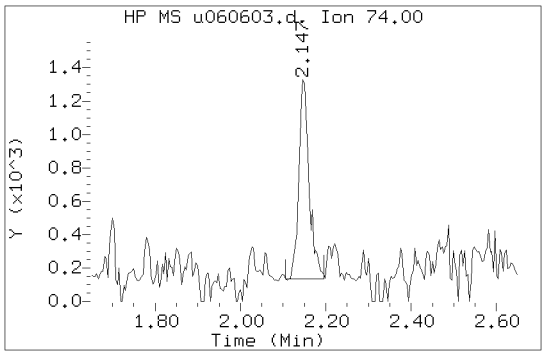
BEFORE

MASS
74
AREA
2051
HEIGHT
1194
08-Jun-2023
14:56
linh
pham



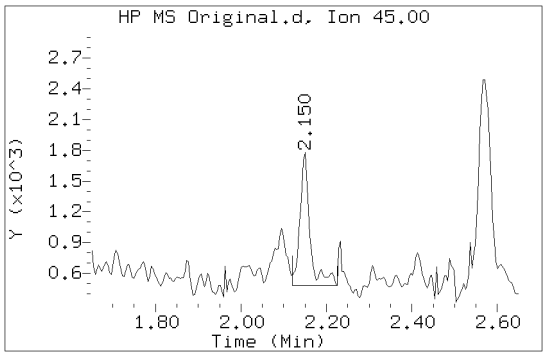
AFTER

MASS
74
AREA
2051
HEIGHT
1194
21-Jun-2023
13:47
linh
pha



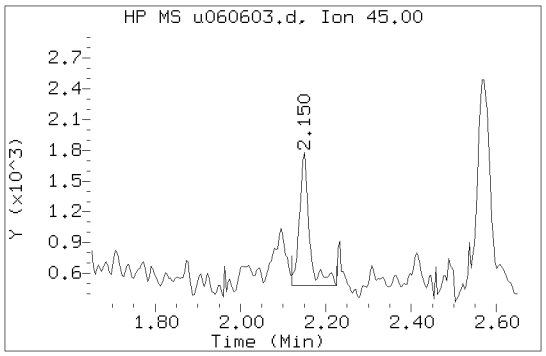
BEFORE

MASS
45
AREA
2149
HEIGHT
1297
08-Jun-2023
14:56
linh
pham



AFTER

MASS
45
AREA
2149
HEIGHT
1297
21-Jun-2023
13:47
linh
pha

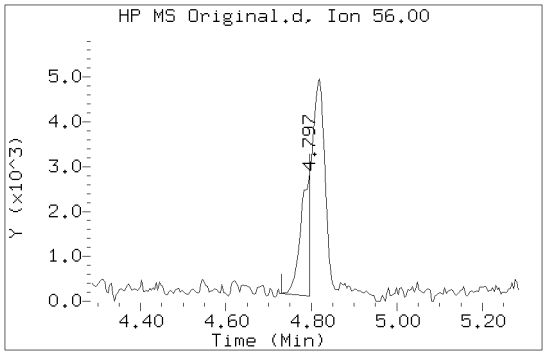


Cyclohexane (110-82-7)

Reason Code:

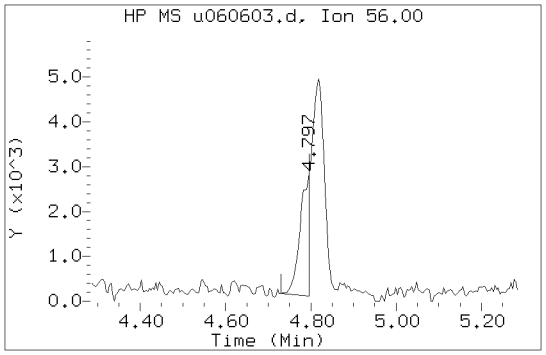
BEFORE

MASS
56
AREA
4345
HEIGHT
2735
08-Jun-2023
14:56
linh
pham



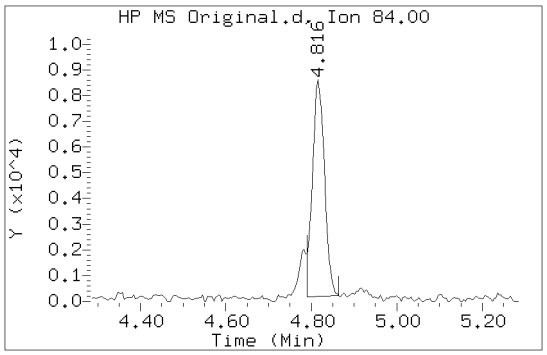
AFTER

MASS
56
AREA
4345
HEIGHT
2735
21-Jun-2023
13:47
linh
pha



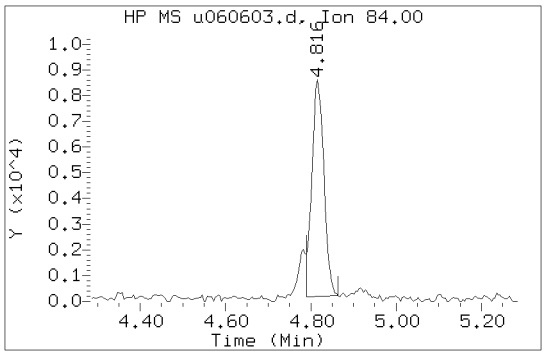
BEFORE

MASS
84
AREA
16696
HEIGHT
8414
08-Jun-2023
14:56
linh
pham



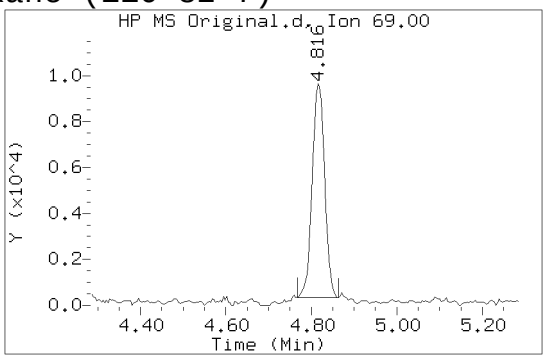
AFTER

MASS
84
AREA
16696
HEIGHT
8414
21-Jun-2023
13:47
linh
pha



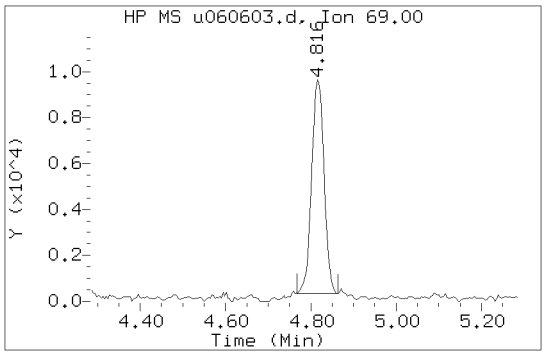
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Cyclohexane (110-82-7)



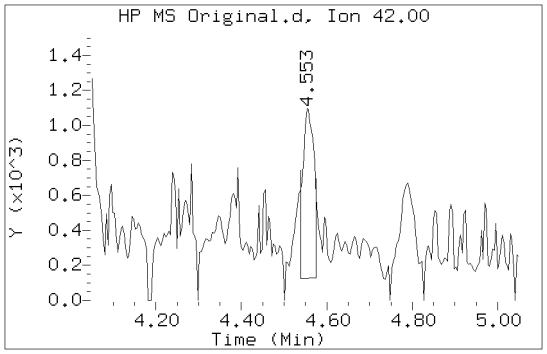
BEFORE
MASS
69
AREA
18963
HEIGHT
9317
08-Jun-2023
14:56
linh
pham

Reason Code:



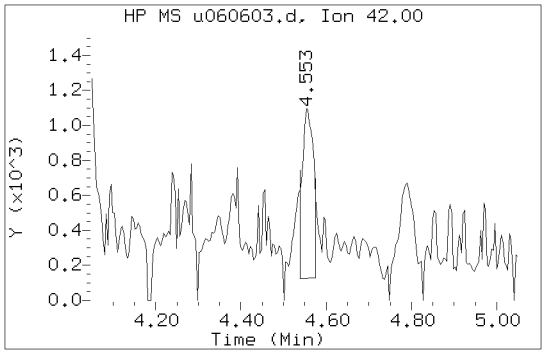
AFTER
MASS
69
AREA
18963
HEIGHT
9317
21-Jun-2023
13:47
linh
pha

Tetrahydrofuran (109-99-9)

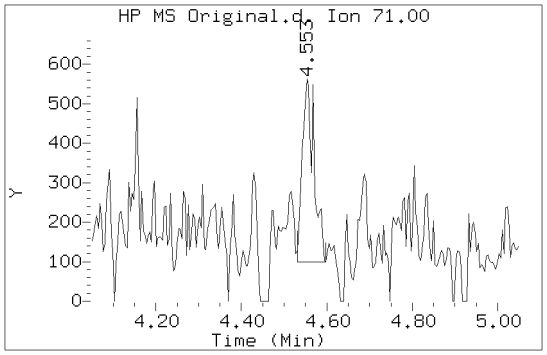


BEFORE
MASS
42
AREA
1846
HEIGHT
970
08-Jun-2023
14:56
linh
pham

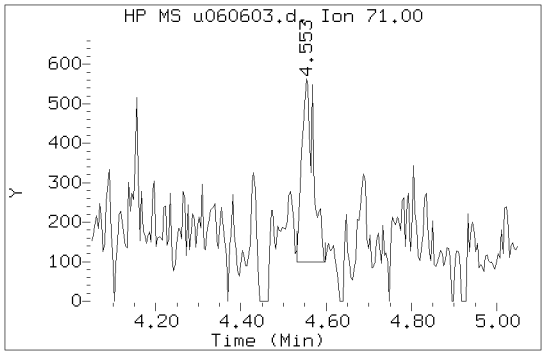
Reason Code:



AFTER
MASS
42
AREA
1846
HEIGHT
970
21-Jun-2023
13:47
linh
pha

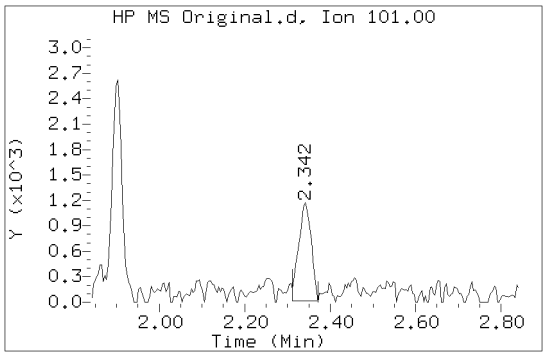


BEFORE
MASS
71
AREA
900
HEIGHT
464
08-Jun-2023
14:56
linh
pham



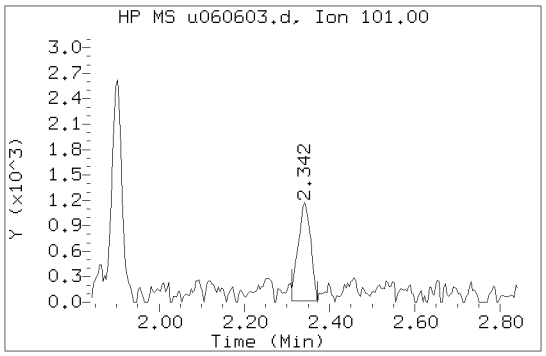
AFTER
MASS
71
AREA
900
HEIGHT
464
21-Jun-2023
13:47
linh
pha

Freon TF (76-13-1)



BEFORE
MASS
101
AREA
2391
HEIGHT
1159
08-Jun-2023
14:56
linh
pham

Reason Code:



AFTER
MASS
101
AREA
2391
HEIGHT
1159
21-Jun-2023
13:47
linh
pha

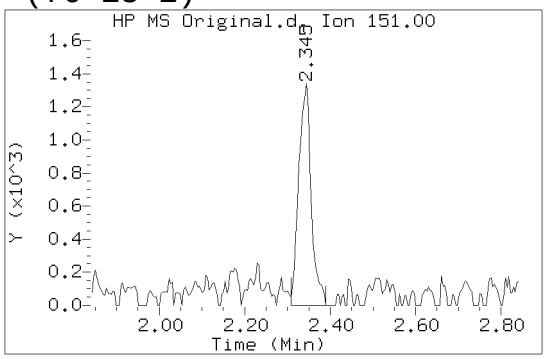
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Freon TF (76-13-1)

Reason Code:

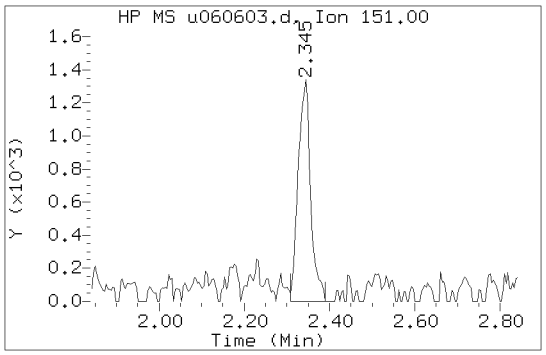
BEFORE

MASS
151
AREA
2754
HEIGHT
1340
08-Jun-2023
14:56
linh
pham



AFTER

MASS
151
AREA
2754
HEIGHT
1340
21-Jun-2023
13:47
linh
pha

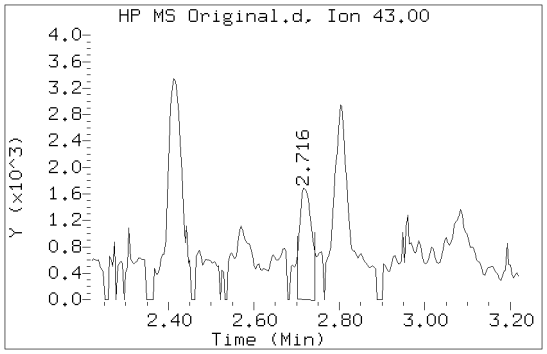


Methyl Acetate (79-20-9)

Reason Code:

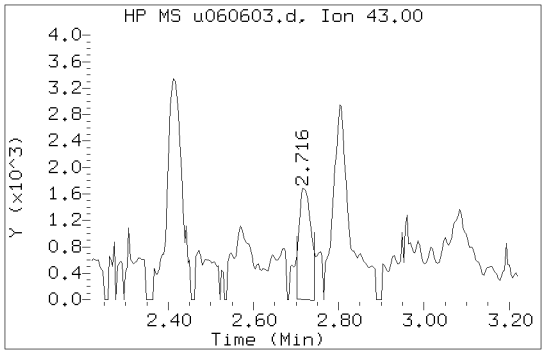
BEFORE

MASS
43
AREA
3375
HEIGHT
1684
08-Jun-2023
14:56
linh
pham



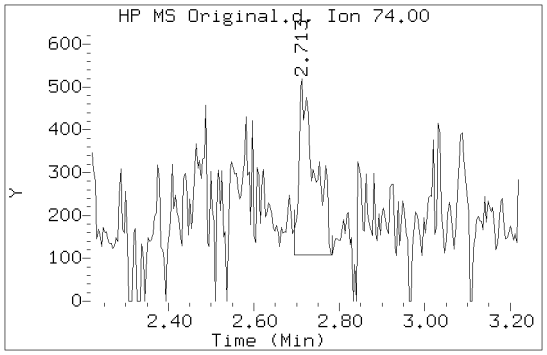
AFTER

MASS
43
AREA
3375
HEIGHT
1684
21-Jun-2023
13:47
linh
pha



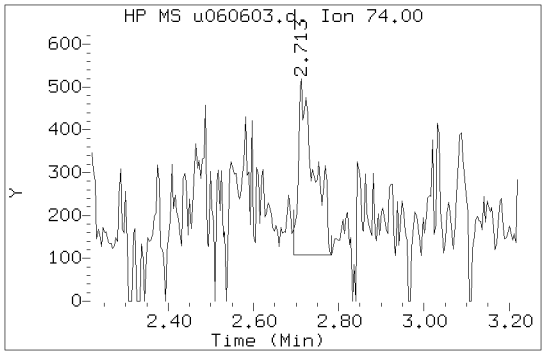
BEFORE

MASS
74
AREA
1069
HEIGHT
411
08-Jun-2023
14:56
linh
pham



AFTER

MASS
74
AREA
1069
HEIGHT
411
21-Jun-2023
13:47
linh
pha

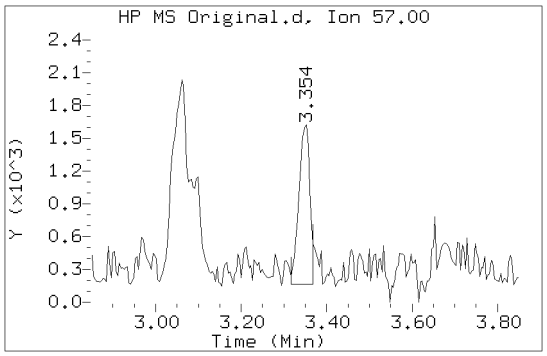


Allyl alcohol (107-18-6)

Reason Code:

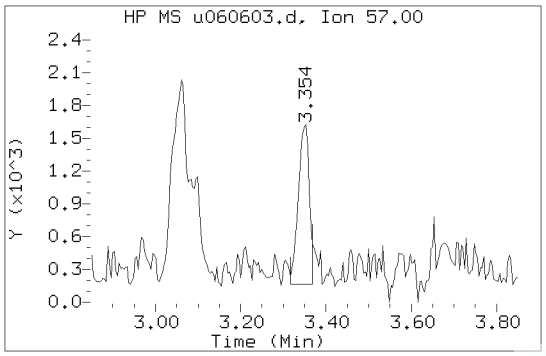
BEFORE

MASS
57
AREA
2691
HEIGHT
1461
08-Jun-2023
14:56
linh
pham



AFTER

MASS
57
AREA
2691
HEIGHT
1461
21-Jun-2023
13:47
linh
pha



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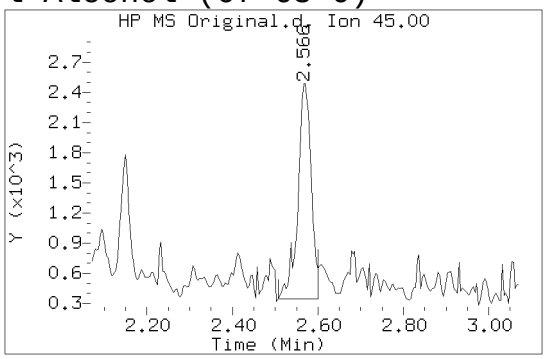
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

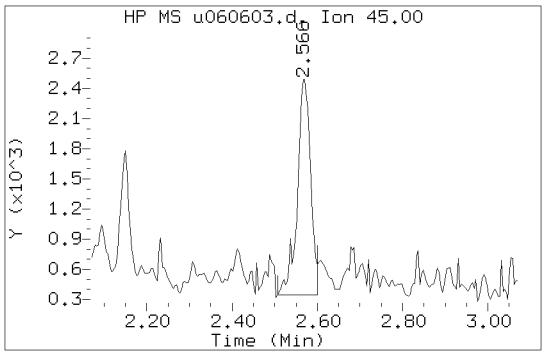
Isopropyl Alcohol (67-63-0)

Reason Code:

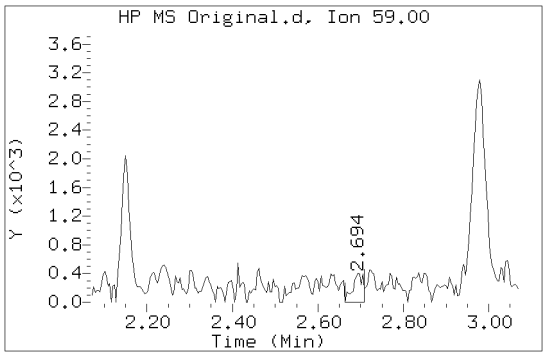
BEFORE
MASS
45
AREA
4735
HEIGHT
2141
08-Jun-2023
14:56
linh
pham



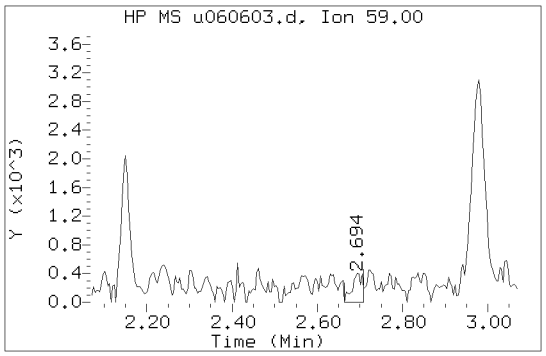
AFTER
MASS
45
AREA
4735
HEIGHT
2141
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
59
AREA
670
HEIGHT
403
08-Jun-2023
14:56
linh
pham



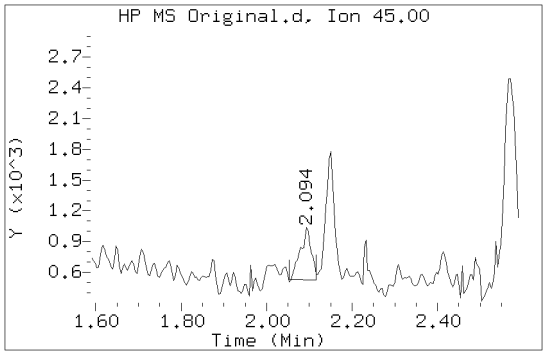
AFTER
MASS
59
AREA
670
HEIGHT
403
21-Jun-2023
13:47
linh
pha



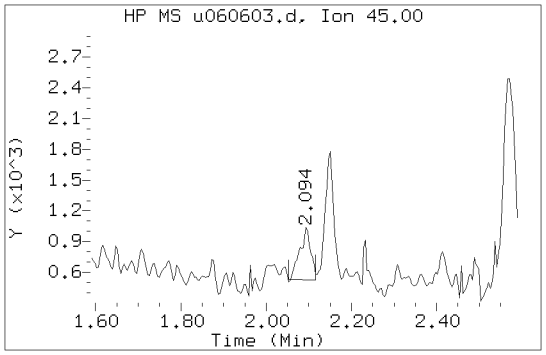
Ethanol (64-17-5)

Reason Code:

BEFORE
MASS
45
AREA
929
HEIGHT
515
08-Jun-2023
14:56
linh
pham



AFTER
MASS
45
AREA
929
HEIGHT
515
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
46
AREA
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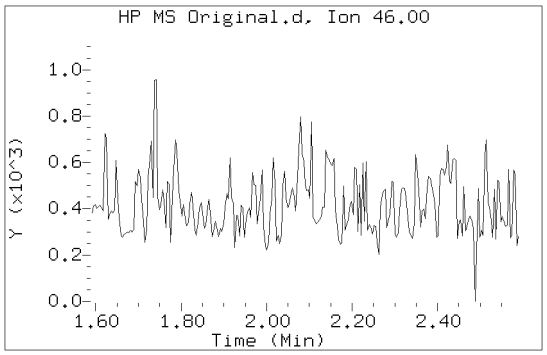
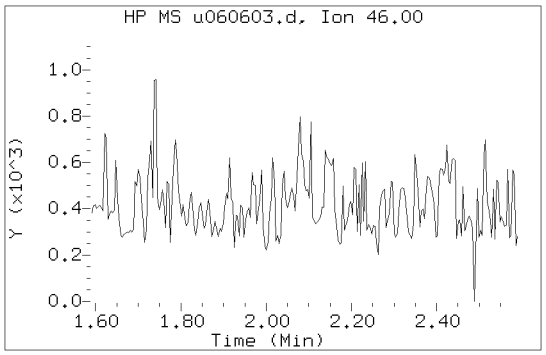
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER
MASS
46
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



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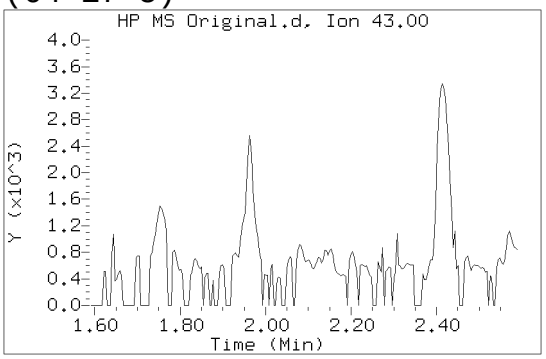
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Ethanol (64-17-5)

Reason Code:

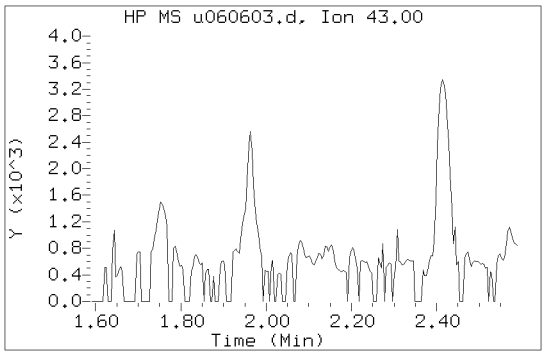
BEFORE

MASS
43
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
43
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

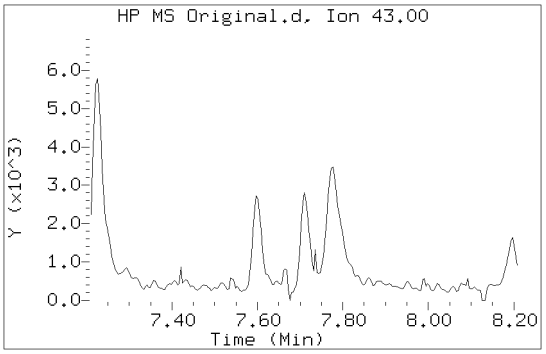


n-Butyl acetate (123-86-4)

Reason Code:

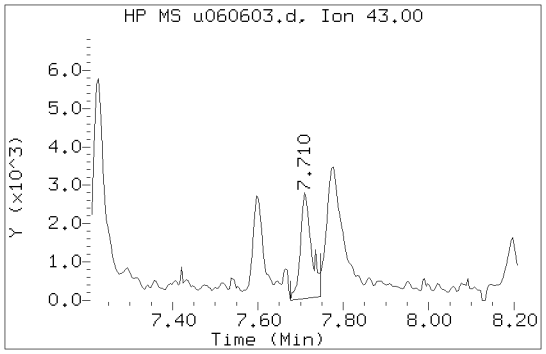
BEFORE

MASS
43
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



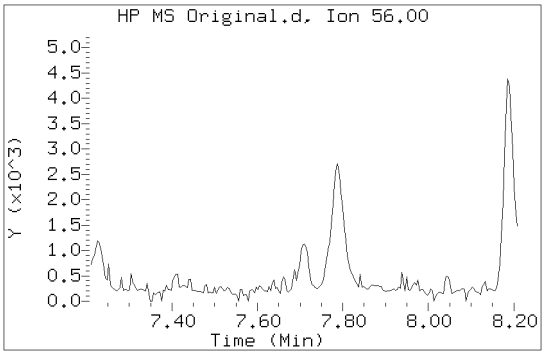
AFTER

MASS
43
AREA
5135
HEIGHT
2763
21-Jun-2023
13:47
linh
pha



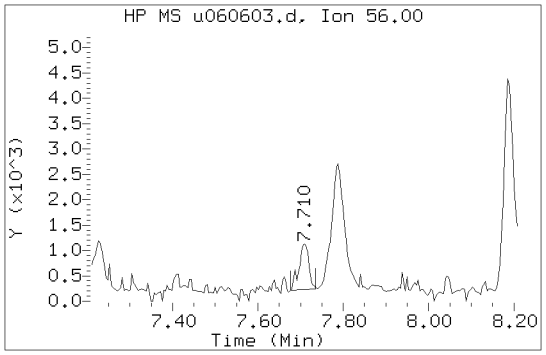
BEFORE

MASS
56
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



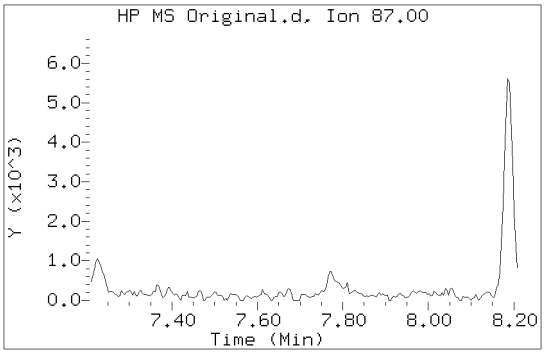
AFTER

MASS
56
AREA
1504
HEIGHT
896
21-Jun-2023
13:47
linh
pha



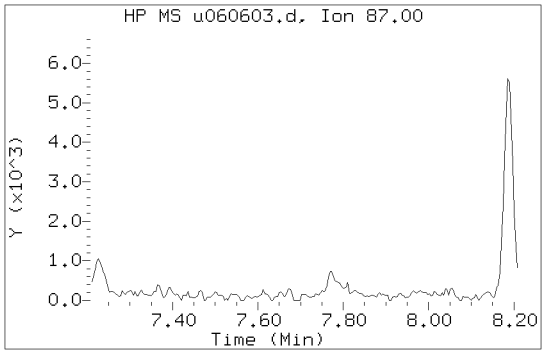
BEFORE

MASS
87
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
87
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



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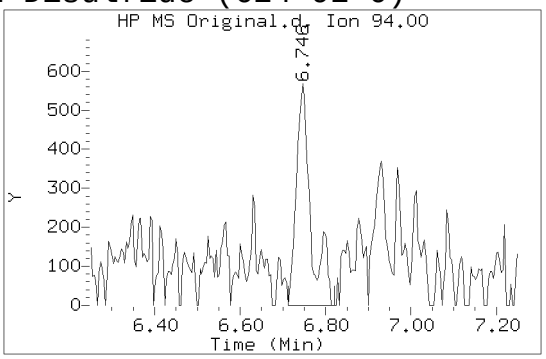
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

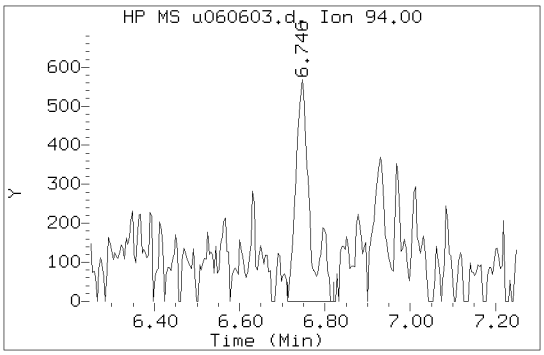
Dimethyl Disulfide (624-92-0)

Reason Code:

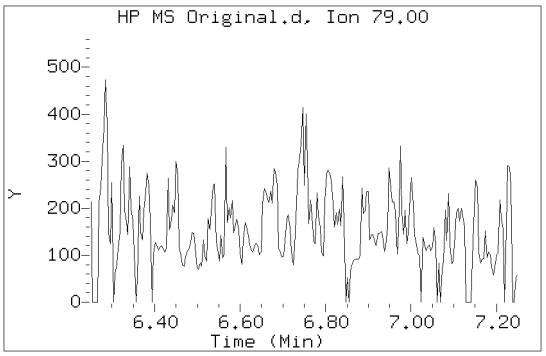
BEFORE
MASS
94
AREA
1341
HEIGHT
568
08-Jun-2023
14:56
linh
pham



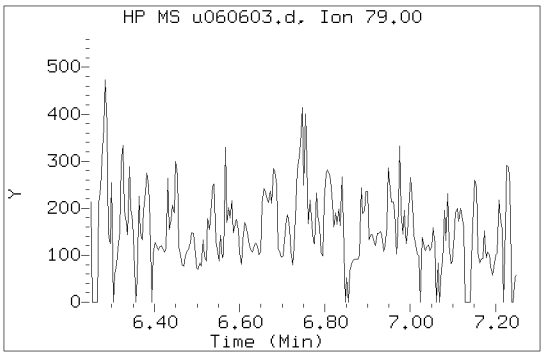
AFTER
MASS
94
AREA
1341
HEIGHT
568
21-Jun-2023
13:47
linh
pha



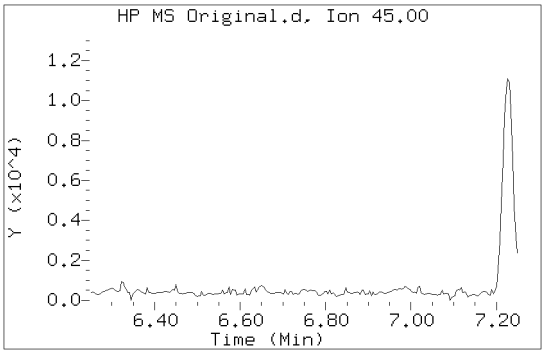
BEFORE
MASS
79
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



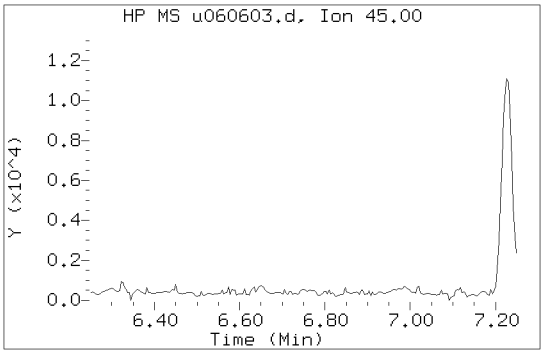
AFTER
MASS
79
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
45
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



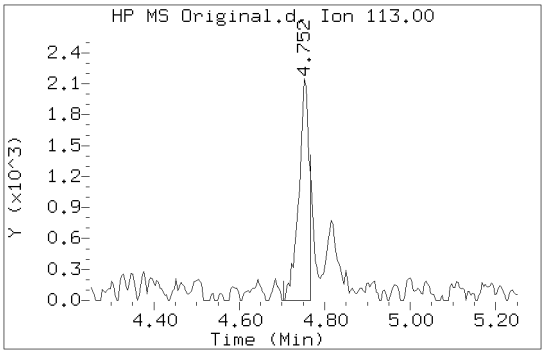
AFTER
MASS
45
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



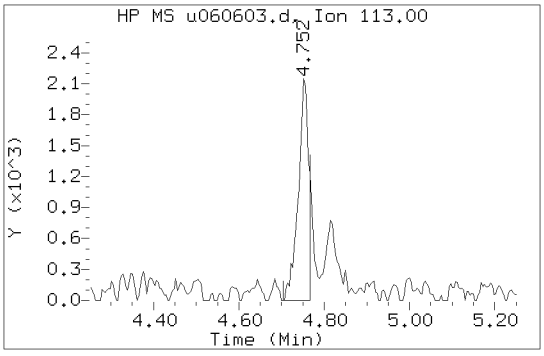
Dibromofluoromethane (1868-53-7)

Reason Code:

BEFORE
MASS
113
AREA
3644
HEIGHT
2149
08-Jun-2023
14:56
linh
pham



AFTER
MASS
113
AREA
3644
HEIGHT
2149
21-Jun-2023
13:47
linh
pha



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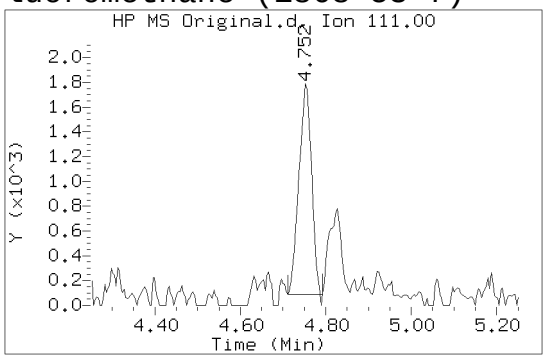
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Dibromofluoromethane (1868-53-7)

Reason Code:

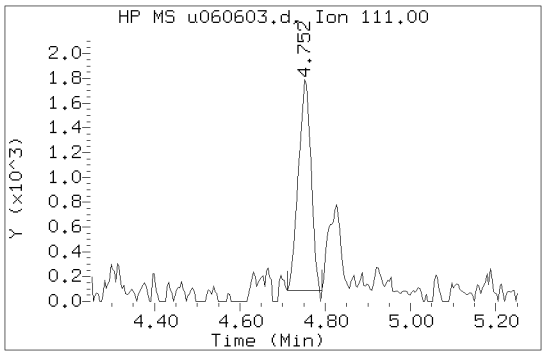
BEFORE

MASS
111
AREA
3541
HEIGHT
1703
08-Jun-2023
14:56
linh
pham



AFTER

MASS
111
AREA
3541
HEIGHT
1703
21-Jun-2023
13:47
linh
pha

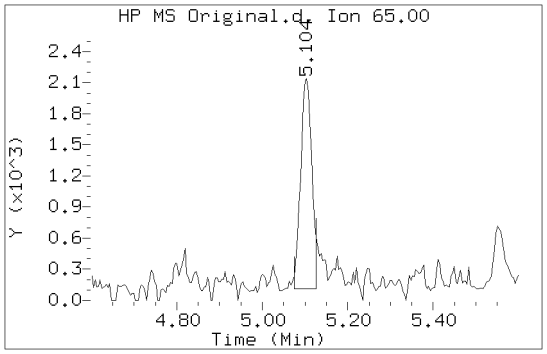


1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

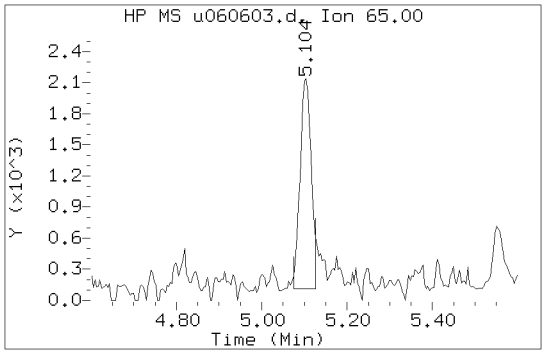
BEFORE

MASS
65
AREA
3795
HEIGHT
2029
08-Jun-2023
14:56
linh
pham



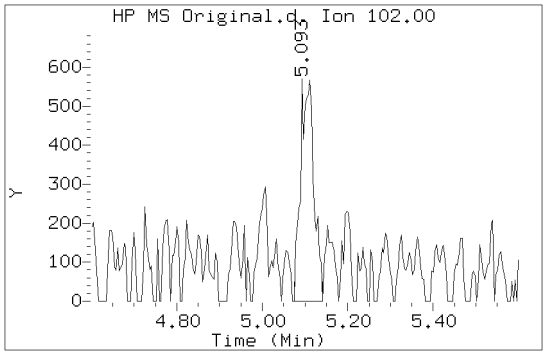
AFTER

MASS
65
AREA
3795
HEIGHT
2029
21-Jun-2023
13:47
linh
pha



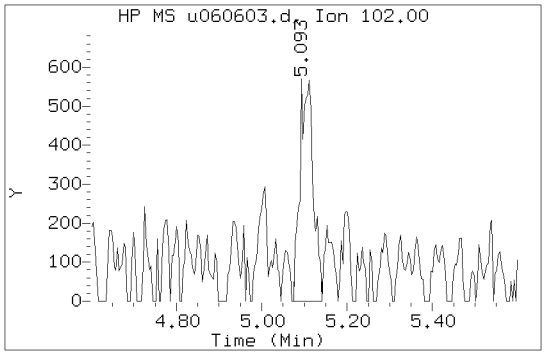
BEFORE

MASS
102
AREA
1254
HEIGHT
570
08-Jun-2023
14:56
linh
pham



AFTER

MASS
102
AREA
1254
HEIGHT
570
21-Jun-2023
13:47
linh
pha

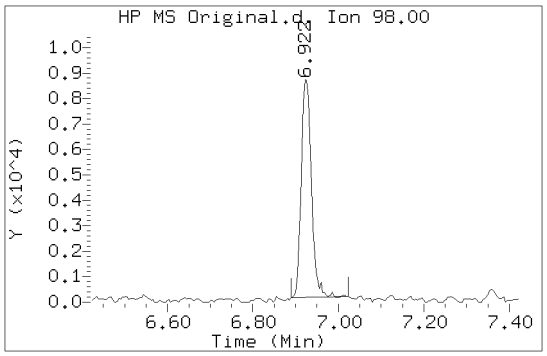


Toluene-d8 (2037-26-5)

Reason Code:

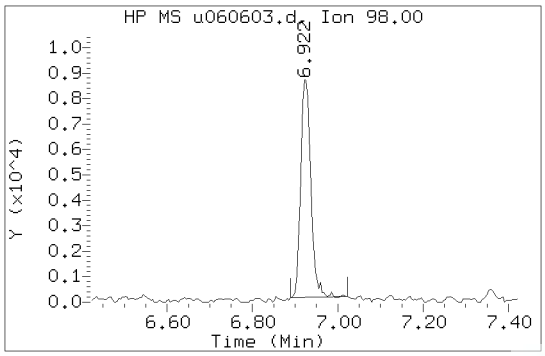
BEFORE

MASS
98
AREA
14408
HEIGHT
8549
08-Jun-2023
14:56
linh
pham



AFTER

MASS
98
AREA
14408
HEIGHT
8549
21-Jun-2023
13:47
linh
pha



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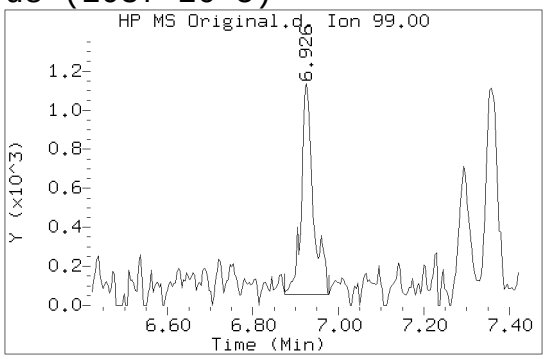
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

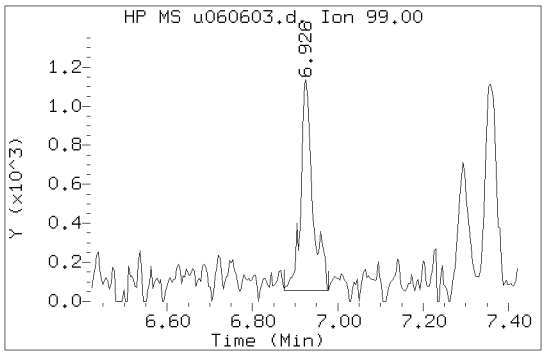
Toluene-d8 (2037-26-5)

BEFORE
MASS
99
AREA
2122
HEIGHT
1080
08-Jun-2023
14:56
linh
pham

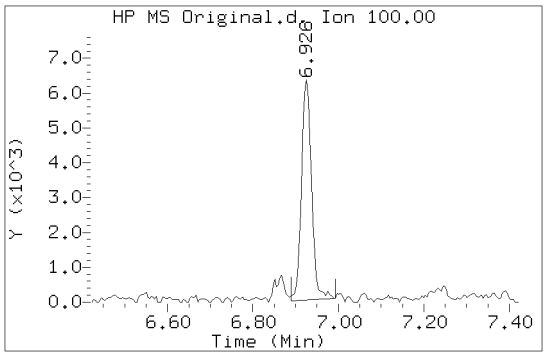


Reason Code:

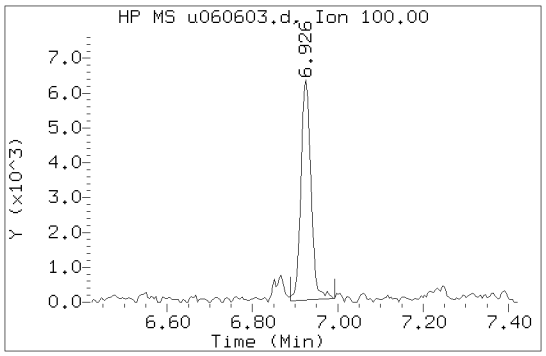
AFTER
MASS
99
AREA
2122
HEIGHT
1080
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
100
AREA
10558
HEIGHT
6311
08-Jun-2023
14:56
linh
pham

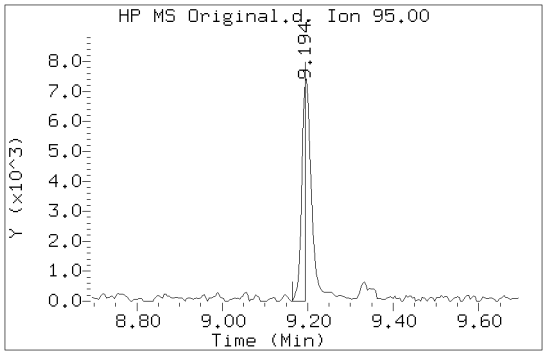


AFTER
MASS
100
AREA
10558
HEIGHT
6311
21-Jun-2023
13:47
linh
pha



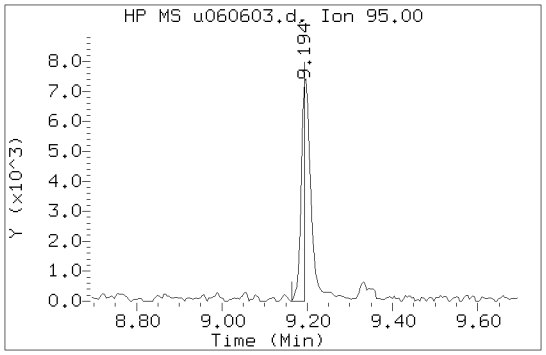
4-Bromofluorobenzene (460-00-4)

BEFORE
MASS
95
AREA
5007
HEIGHT
7327
08-Jun-2023
14:56
linh
pham

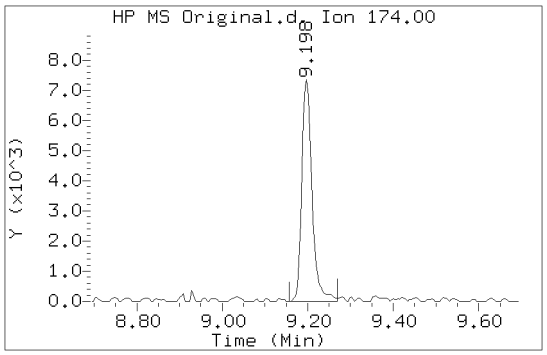


Reason Code:

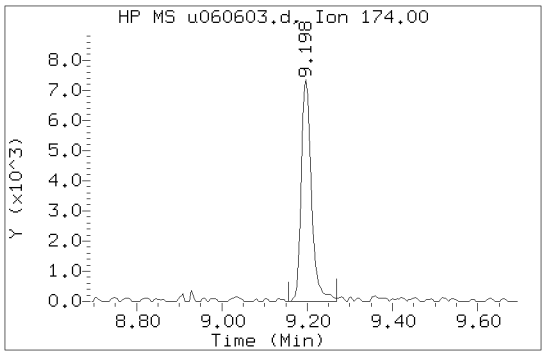
AFTER
MASS
95
AREA
5007
HEIGHT
7327
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
174
AREA
12552
HEIGHT
7353
08-Jun-2023
14:56
linh
pham



AFTER
MASS
174
AREA
12552
HEIGHT
7353
21-Jun-2023
13:47
linh
pha



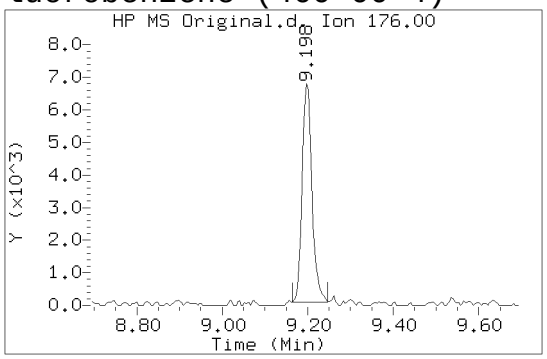
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

4-Bromofluorobenzene (460-00-4)

Reason Code:

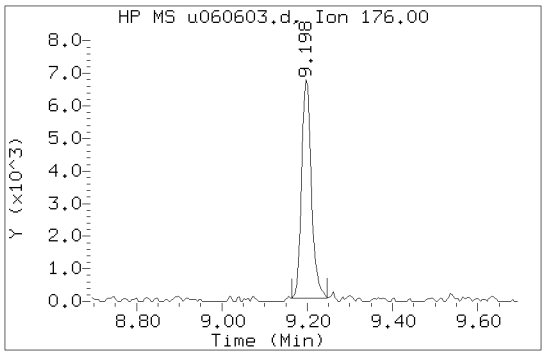
BEFORE

MASS
176
AREA
10910
HEIGHT
6707
08-Jun-2023
14:56
linh
pham



AFTER

MASS
176
AREA
10910
HEIGHT
6707
21-Jun-2023
13:47
linh
pha



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060606.D Page 1
Report Date: 21-Jun-2023 13:47

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060606.D
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 06-JUN-2023 13:06
Operator : PC Inst ID: VOA9.i
Smp Info : VSTD005;VSTD005;1;5;
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
Meth Date : 21-Jun-2023 13:45 pcabasca Quant Type: ISTD
Cal Date : 06-JUN-2023 13:06 Cal File: U060606.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14

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)	661055	50.0000	
2 Dichlorodifluoromethane	85	1.156	1.156	(0.240)	31172	5.00000	5.17
3 Chloromethane	50	1.287	1.287	(0.268)	62455	5.00000	5.08
5 Vinyl Chloride	62	1.370	1.370	(0.285)	36493	5.00000	5.21
6 Bromomethane	94	1.613	1.613	(0.335)	23995	5.00000	5.08
7 Chloroethane	64	1.692	1.692	(0.352)	23603	5.00000	5.01
8 Trichlorofluoromethane	101	1.887	1.887	(0.392)	41967	5.00000	5.22
9 Acrolein	56	2.258	2.258	(0.469)	3393	10.0000	9.67(aM)
10 Acetone	43	2.401	2.401	(0.499)	31915	10.0000	9.15
11 1,1-Dichloroethene	96	2.326	2.326	(0.483)	25586	5.00000	5.09
15 Iodomethane	142	2.461	2.461	(0.512)	10875	10.0000	12.46(M)
16 Acrylonitrile	53	3.060	3.060	(0.636)	26401	10.0000	10.76
17 Methylene Chloride	84	2.787	2.787	(0.579)	34262	5.00000	4.77(a)
18 Methyl tert-butyl ether	73	3.075	3.075	(0.639)	77272	5.00000	5.02
19 Carbon Disulfide	76	2.513	2.513	(0.522)	137840	10.0000	10.27
20 trans-1,2-Dichloroethene	96	3.049	3.049	(0.634)	27553	5.00000	5.04
21 Vinyl Acetate	43	3.604	3.604	(0.749)	174288	10.0000	10.47
22 1,1-Dichloroethane	63	3.507	3.507	(0.729)	52777	5.00000	5.08
24 2-Butanone	43	4.264	4.264	(0.886)	29852	10.0000	9.90
26 2,2-Dichloropropane	77	4.174	4.174	(0.868)	33762	5.00000	5.28
27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	34046	5.00000	5.21

28	Chloroform	83	4.567	4.567 (0.949)	56388	5.00000	5.22
29	Bromochloromethane	128	4.462	4.462 (0.928)	18916	5.00000	5.17

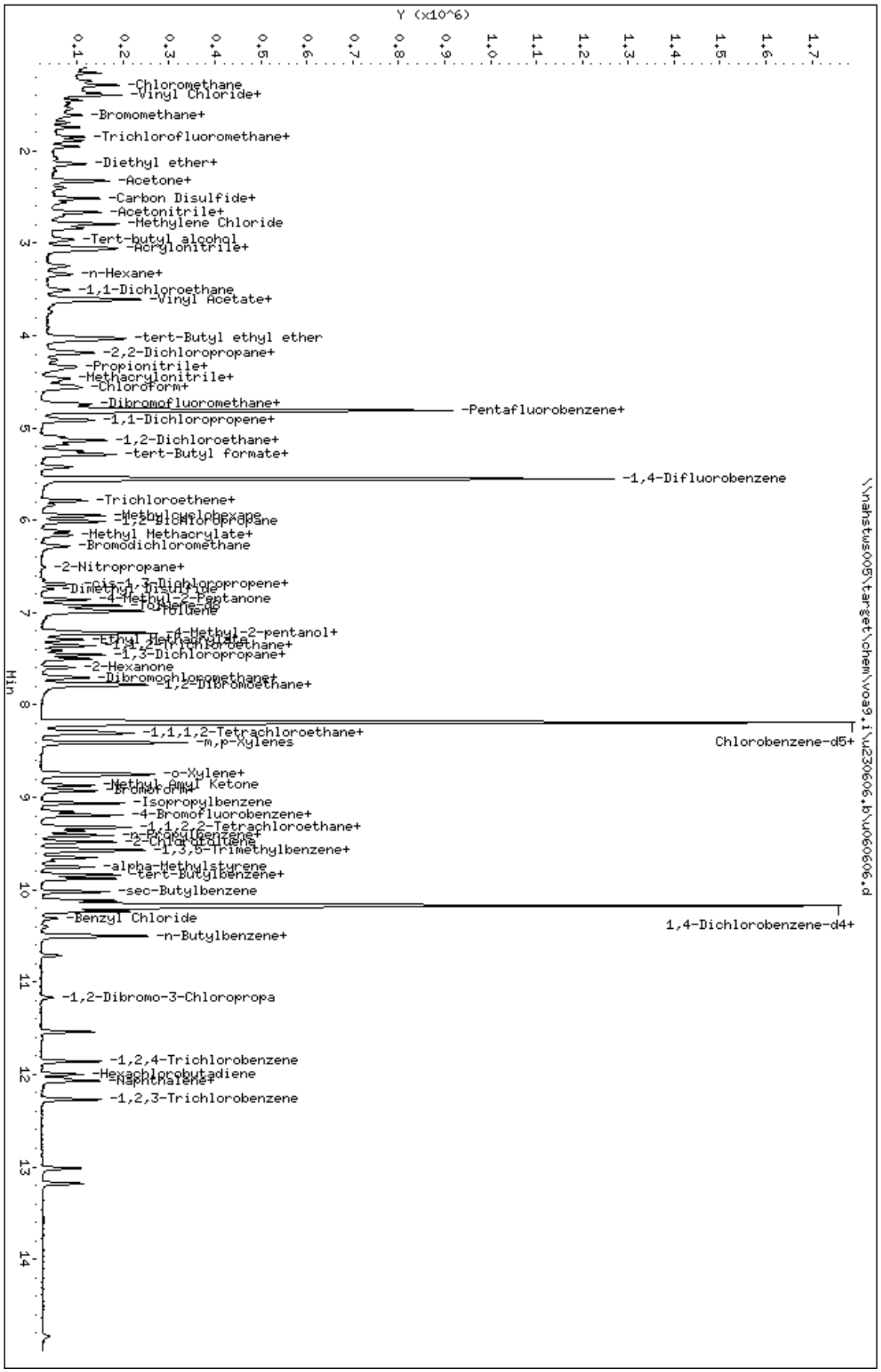
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	30229	5.00000	5.16
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	40381	5.00000	4.90(a)
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	35687	5.00000	4.94(a)
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	44658	5.00000	5.23
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	30773	5.00000	4.63(a)
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	34153	5.00000	5.08
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	985343	50.0000	
	37 Benzene	78	5.137	5.137	(0.926)	124450	5.00000	5.24
	38 Trichloroethene	130	5.786	5.786	(1.043)	36191	5.00000	5.25
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	36599	5.00000	4.94(a)
	42 1,2-Dichloropropane	63	6.011	6.011	(1.083)	32316	5.00000	5.09
	44 Dibromomethane	93	6.119	6.119	(1.103)	20983	5.00000	5.18
	45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	69130	10.0000	10.20
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.206)	37734	5.00000	5.56
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	930383	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	106553	5.00000	5.06(M)
	50 Toluene	91	6.982	6.982	(0.853)	128415	5.00000	5.08
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.297)	31811	5.00000	5.68(M)
	52 2-Hexanone	43	7.593	7.593	(0.928)	46135	10.0000	9.77
	53 1,1,2-Trichloroethane	83	7.356	7.356	(0.899)	27005	5.00000	5.14
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	55865	5.00000	5.20
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	28715	5.00000	4.60(a)
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	31033	5.00000	5.04
	57 1,2-Dibromoethane	107	7.788	7.788	(0.951)	31859	5.00000	4.91(a)
	58 1-Chlorohexane	55	8.196	8.196	(1.477)	23998	5.00000	4.74(aM)
	59 Chlorobenzene	112	8.211	8.211	(1.003)	93304	5.00000	5.18
	60 1,1,1,2-Tetrachloroethane	131	8.282	8.282	(1.012)	29452	5.00000	4.75(a)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	40417	5.00000	4.82(a)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	87802	10.0000	8.85(a)
	63 o-Xylene	106	8.747	8.747	(1.069)	45979	5.00000	4.69(a)
	64 Styrene	104	8.762	8.762	(1.071)	64961	5.00000	4.17(a)
	66 Bromoform	173	8.920	8.920	(1.090)	18587	5.00000	4.42(a)
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	111398	5.00000	4.73(a)
	68 1,1,2,2-Tetrachloroethane	83	9.328	9.328	(0.917)	44946	5.00000	5.11
$	69 4-Bromofluorobenzene	95	9.193	9.193	(1.123)	49215	5.00000	5.13
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	467357	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	38304	5.00000	4.95(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	110045	5.00000	4.48(a)
	74 Bromobenzene	156	9.317	9.317	(0.916)	38901	5.00000	4.93(a)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	78874	5.00000	4.68(a)
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	85816	5.00000	4.97(a)
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	94195	5.00000	4.93(a)
	78 tert-Butylbenzene	119	9.838	9.838	(0.967)	79517	5.00000	4.81(a)
	79 1,2,4-Trimethylbenzene	105	9.879	9.879	(0.971)	85616	5.00000	4.86(a)
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	96016	5.00000	4.58(a)
	82 p-Isopropyltoluene	119	10.145	10.145	(0.997)	79695	5.00000	4.54(a)
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	67753	5.00000	5.05
	84 1,4-Dichlorobenzene	146	10.190	10.190	(1.002)	73343	5.00000	5.13
	87 n-Butylbenzene	91	10.494	10.494	(1.032)	70944	5.00000	4.72(a)
	88 1,2-Dichlorobenzene	146	10.505	10.505	(1.033)	65904	5.00000	4.90(a)
	89 1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	5840	5.00000	4.55(a)
	90 1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	42718	5.00000	4.62(a)

92 Naphthalene	128	12.069	12.069 (1.186)	95946	5.00000	4.47(a)
93 1,2,3-Trichlorobenzene	180	12.271	12.271 (1.206)	42734	5.00000	4.73(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
M 94 1,2-Dichloroethylene (total)	96				61599	10.0000	10.26
M 95 Xylenes (total)	106				133781	15.0000	13.54(a)
135 1,4-Dioxane	88	6.172	6.172	(1.283)	12691	100.000	96.68(a)
141 Cyclohexane	56	4.777	4.777	(0.993)	37840	5.00000	4.93(aM)
138 Freon TF	101	2.326	2.326	(0.483)	23128	5.00000	5.20
140 1,3-Butadiene	54	1.396	1.396	(0.290)	32480	5.00000	5.18
147 Methylcyclohexane	55	5.947	5.947	(1.072)	68659	5.00000	5.02
146 Methyl Acetate	43	2.708	2.708	(0.563)	27090	5.00000	4.86(a)
148 Tert-Butyl alcohol	59	2.963	2.963	(0.616)	66425	100.000	104.33
149 Isopropyl Alcohol	45	2.558	2.558	(0.532)	41674	100.000	96.43
72 trans-1,4-Dichloro-2-butene	53	9.381	9.381	(1.146)	5142	5.00000	4.79(M)
12 Isobutyl Alcohol	43	5.287	5.287	(1.099)	83135	100.000	96.79(M)
13 Acetonitrile	39	2.663	2.663	(0.554)	35522	50.0000	49.63
14 Allyl Chloride	41	2.667	2.667	(0.554)	87674	5.00000	5.10
25 Methacrylonitrile	41	4.492	4.492	(0.934)	18250	5.00000	4.67
40 Methyl Methacrylate	41	6.157	6.157	(1.280)	26729	5.00000	4.70
4 Propionitrile	54	4.335	4.335	(0.901)	49866	50.0000	52.20(a)
136 n-Hexane	57	3.334	3.334	(0.693)	28289	5.00000	5.36
194 Acetaldehyde	44	1.452	1.452	(0.302)	14773	20.0000	16.20(M)
131 Methyl Acrylate	55	4.369	4.369	(0.908)	32767	5.00000	4.68(aM)
200 Dimethyl Disulfide	94	6.742	6.742	(0.824)	15263	5.00000	6.61(M)
23 Chloroprene	53	2.150	2.150	(0.447)	9849	5.00000	4.67(aM)
49 Ethyl Methacrylate	69	7.293	7.293	(1.314)	44828	5.00000	5.18
166 1,2,3-Trimethylbenzene	105	10.235	10.235	(1.006)	96136	5.00000	5.35
167 Ethanol	45	2.075	2.075	(0.431)	9968	100.000	100.77
164 Dicyclopentadiene	66	10.202	10.202	(1.003)	115572	5.00000	5.06
145 alpha-Methylstyrene	118	9.756	9.756	(0.959)	33946	5.00000	7.13
142 Tetrahydrofuran	42	4.541	4.541	(0.944)	13490	10.0000	9.46
156 Diisopropyl ether	45	3.615	3.615	(0.751)	94647	5.00000	5.13
151 4-Methyl-2-pentanol	45	7.222	7.222	(1.301)	137040	100.000	93.52
150 Allyl alcohol	57	3.334	3.334	(0.693)	27611	100.000	105.45(M)
86 Benzyl Chloride	91	10.310	10.310	(1.260)	22092	5.00000	7.16
162 Butyl acrylate	55	8.736	8.736	(1.067)	52526	5.00000	4.77(a)
139 Diethyl ether	59	2.135	2.135	(0.444)	23079	5.00000	5.16
203 2-Ethylhexyl Acrylate	55	12.042	12.042	(1.184)	19373	5.00000	6.09
134 Cyclohexanone	55	9.156	9.156	(0.900)	28189	100.000	97.28(a)
130 Ethyl Acetate	43	4.264	4.264	(0.886)	29376	5.00000	4.97(aM)
189 n-Butyl acetate	43	7.709	7.709	(0.942)	50116	5.00000	4.73(aM)
182 Epichlorohydrin	57	6.629	6.629	(1.195)	2028	20.0000	31.12(M)
132 n-Butanol	56	5.831	5.831	(1.212)	16483	100.000	86.46(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.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Sample Info: VSTD005;VSTD005;1;5;
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Instrument: VOA9.i
Operator: PC
Column diameter: 0.18
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-Chloromethane
-Vinyl Chloride+
-Bromomethane+
-Trichlorofluoromethane+
-Diethyl ether+
-Acetone+
-Carbon Disulfide+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane+
-1,1-Dichloroethane
-Vinyl Acetate+
-tert-Butyl ethyl ether
-2,2-Dichloropropane+
-Propionitrile+
-Methacrylonitrile+
-Chloroform+
-Dibromofluoromethane+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-tert-Butyl formate+
-1,4-Difluorobenzene
-Trichloroethene+
-Methylcyclohexane
-1,2-Dichloropropane
-Methyl Methacrylate+
-Bromodichloromethane
-2-Nitropropane+
-cis-1,3-Dichloropropene+
-Dimethyl disulfide
-4-Methyl-2-Pentanone
-Toluene
-4-Methyl-2-pentanol+
-Ethyl Methacrylate
-1,1,2-Trichloroethane+
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane+
-1,2-Dibromoethane+
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-o-Xylene+
-Methyl Amyl Ketone
-Bromoform+
-Isopropylbenzene
-4-Bromofluorobenzene+
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-n-Propylbenzene+
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-alpha-Methylstyrene
-tert-Butylbenzene+
-sec-Butylbenzene
-Benzyl Chloride
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
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-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene+
-1,2,3-Trichlorobenzene

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Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

Acrolein (107-02-8)

Reason Code:

BEFORE

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08-Jun-2023
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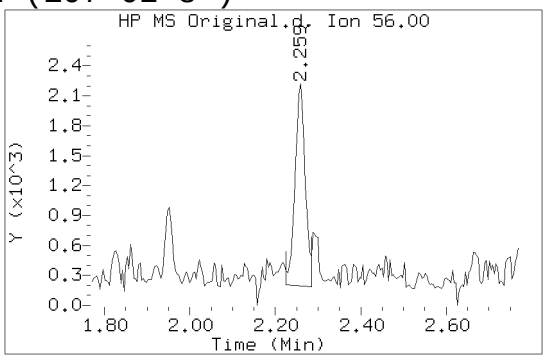

AFTER

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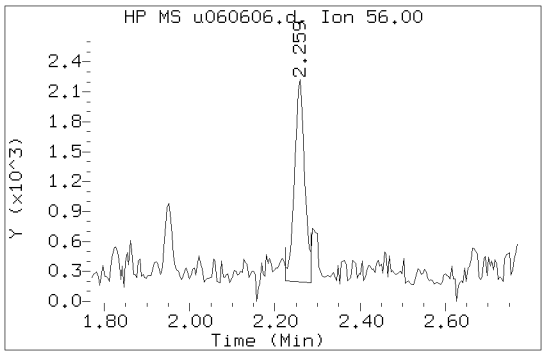

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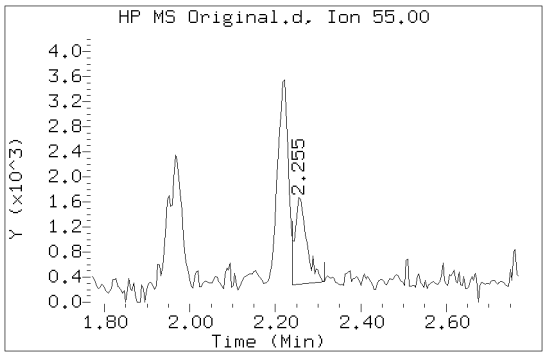

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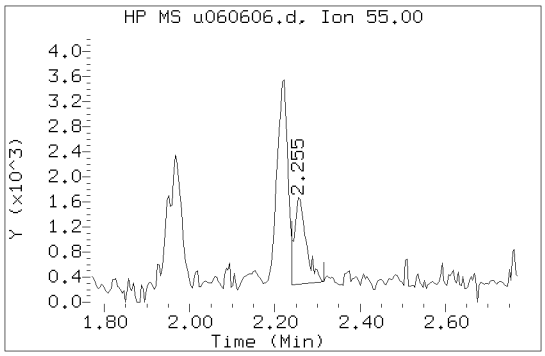

Iodomethane (74-88-4)

Reason Code:

BEFORE

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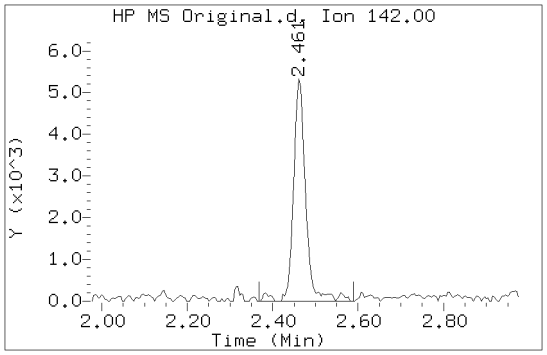

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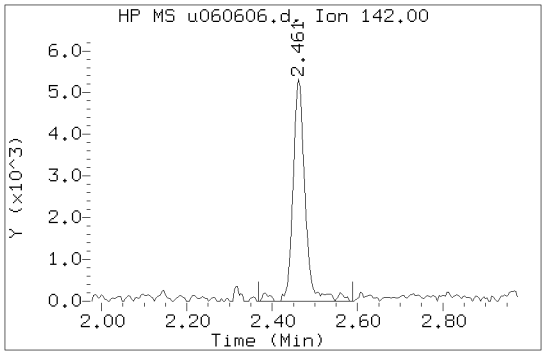

BEFORE

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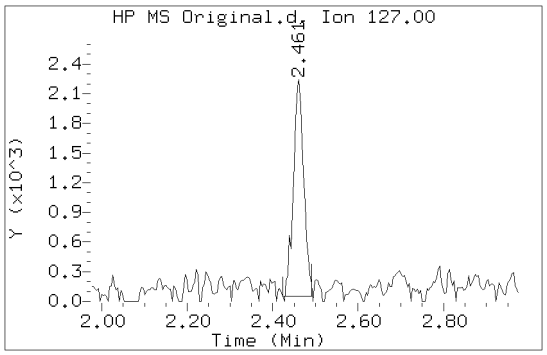

AFTER

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21-Jun-2023
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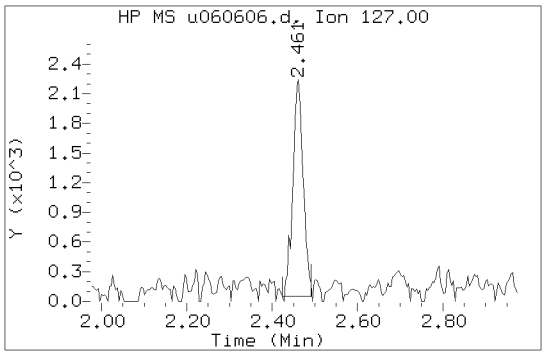

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InstruID : VOA9.i
LabSampID : VSTD005

Iodomethane (74-88-4)

Reason Code:

BEFORE

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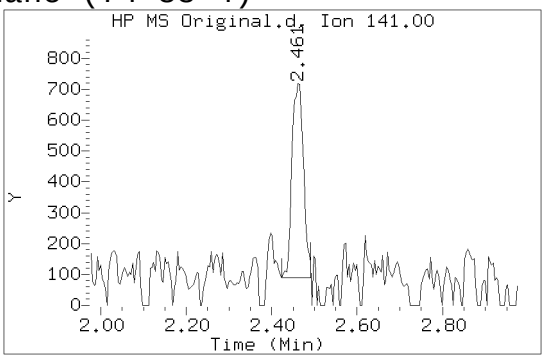
14:56
linh
pham



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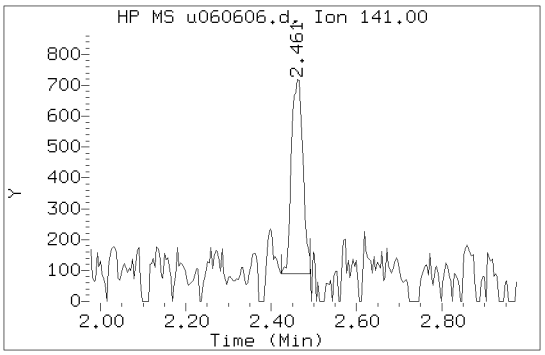

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

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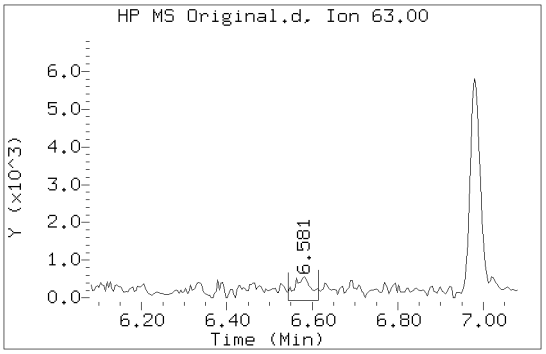

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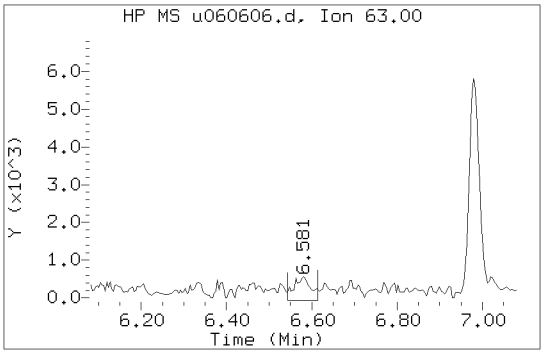

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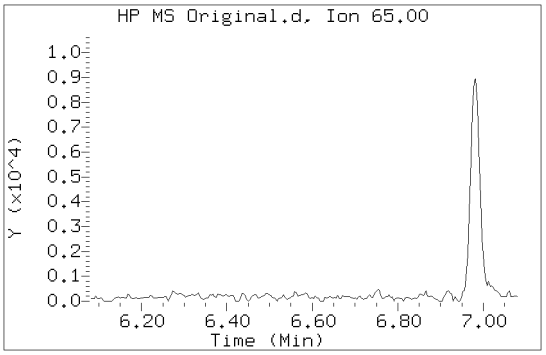
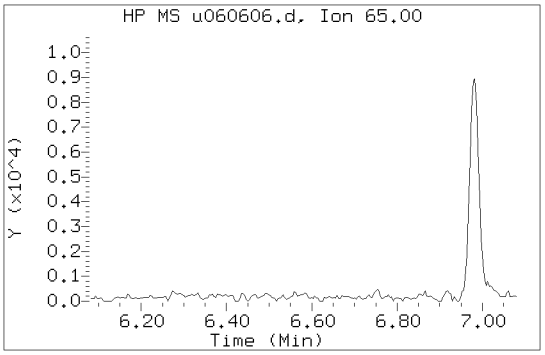


AFTER

MASS
65
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



BEFORE

MASS
106
AREA
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HEIGHT
0
08-Jun-2023
14:56
linh
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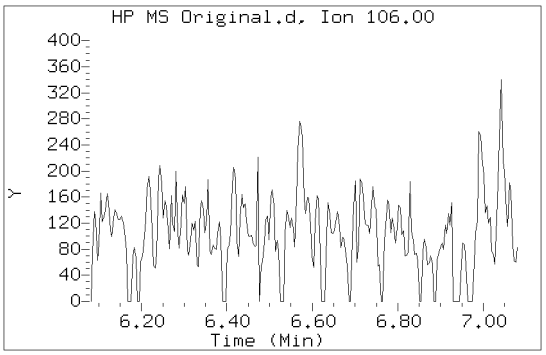
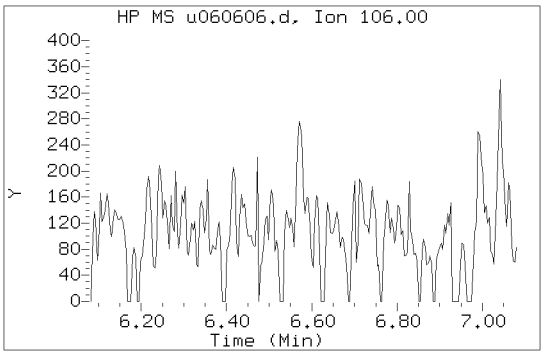


AFTER

MASS
106
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



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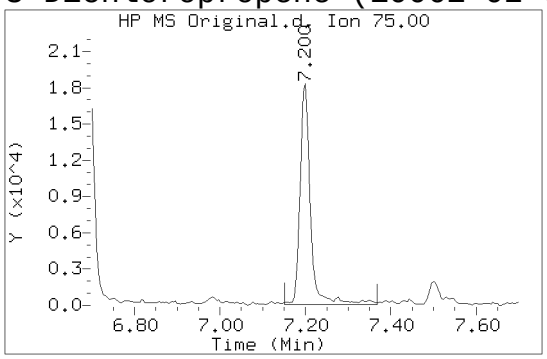
Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

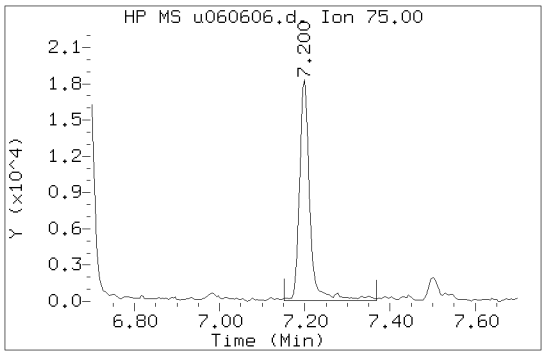
trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

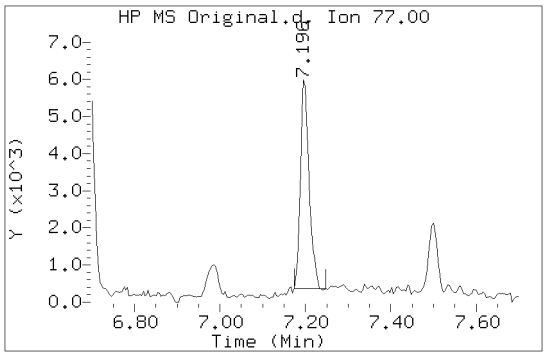
BEFORE
MASS
75
AREA
31811
HEIGHT
18277
08-Jun-2023
14:56
linh
pham



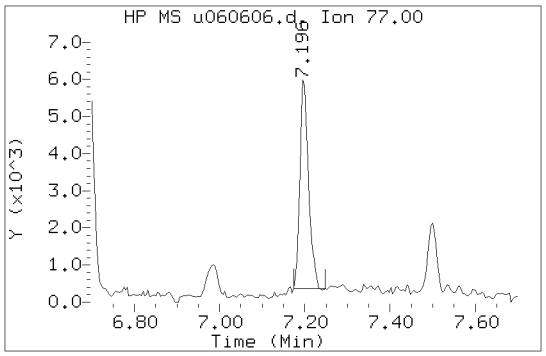
AFTER
MASS
75
AREA
31811
HEIGHT
18277
21-Jun-2023
13:47
linh
pha



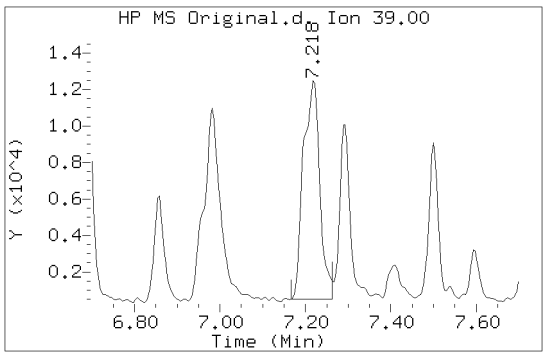
BEFORE
MASS
77
AREA
8164
HEIGHT
5630
08-Jun-2023
14:56
linh
pham



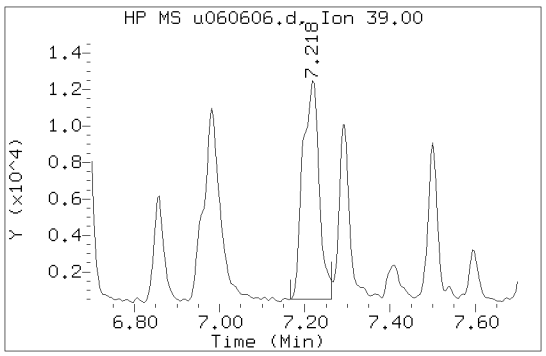
AFTER
MASS
77
AREA
8164
HEIGHT
5630
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
39
AREA
32255
HEIGHT
11964
08-Jun-2023
14:56
linh
pham



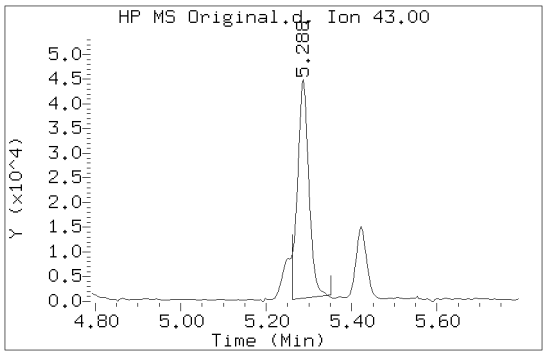
AFTER
MASS
39
AREA
32255
HEIGHT
11964
21-Jun-2023
13:47
linh
pha



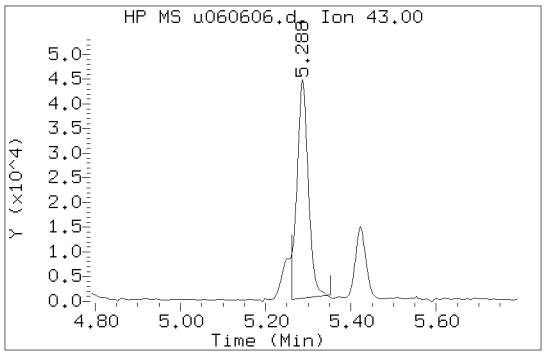
Isobutyl Alcohol (78-83-1)

Reason Code:

BEFORE
MASS
43
AREA
83135
HEIGHT
44258
08-Jun-2023
14:56
linh
pham



AFTER
MASS
43
AREA
83135
HEIGHT
44258
21-Jun-2023
13:47
linh
pha

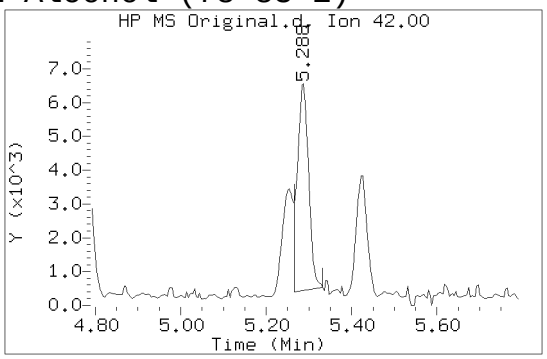


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060606.d
Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

Isobutyl Alcohol (78-83-1)

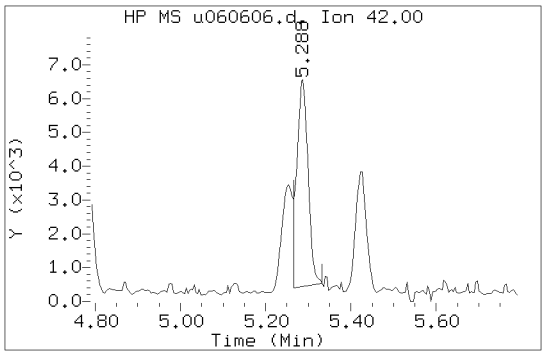
BEFORE

MASS
42
AREA
11630
HEIGHT
6123
08-Jun-2023
14:56
linh
pham



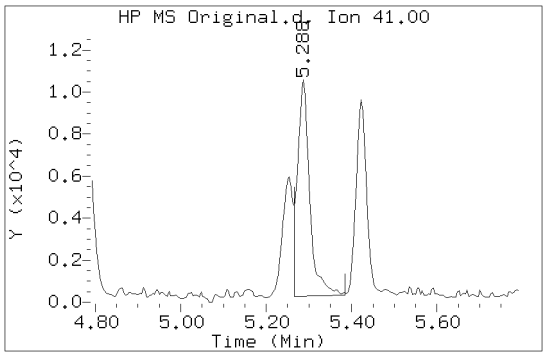
AFTER

MASS
42
AREA
11630
HEIGHT
6123
21-Jun-2023
13:47
linh
pha



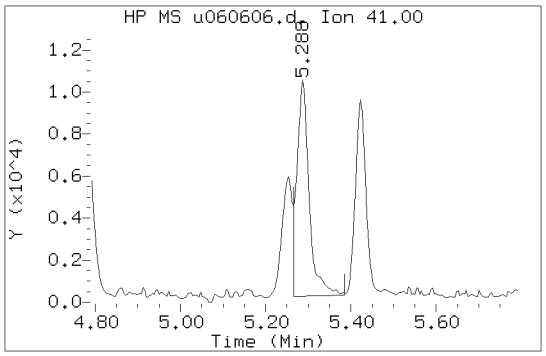
BEFORE

MASS
41
AREA
21244
HEIGHT
10293
08-Jun-2023
14:56
linh
pham



AFTER

MASS
41
AREA
21244
HEIGHT
10293
21-Jun-2023
13:47
linh
pha

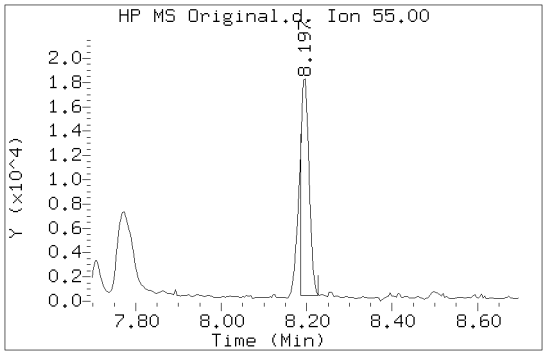


Reason Code:

1-Chlorohexane (544-10-5)

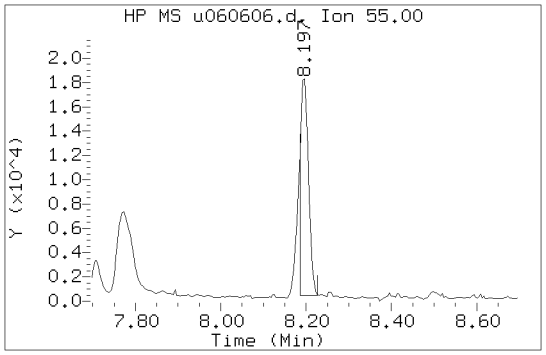
BEFORE

MASS
55
AREA
23998
HEIGHT
17834
08-Jun-2023
14:56
linh
pham



AFTER

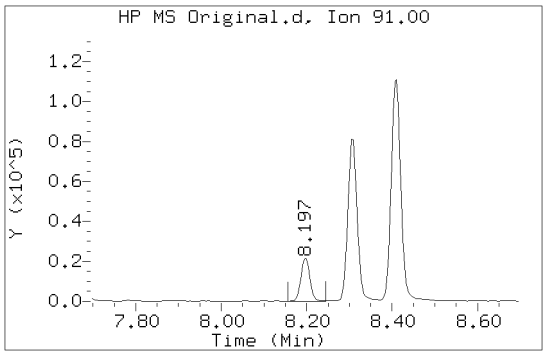
MASS
55
AREA
23998
HEIGHT
17834
21-Jun-2023
13:47
linh
pha



Reason Code:

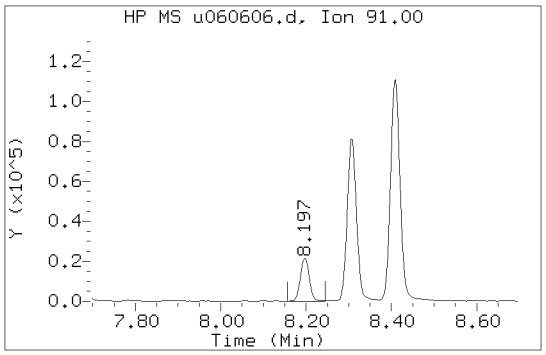
BEFORE

MASS
91
AREA
32110
HEIGHT
21527
08-Jun-2023
14:56
linh
pham



AFTER

MASS
91
AREA
32110
HEIGHT
21527
21-Jun-2023
13:47
linh
pha



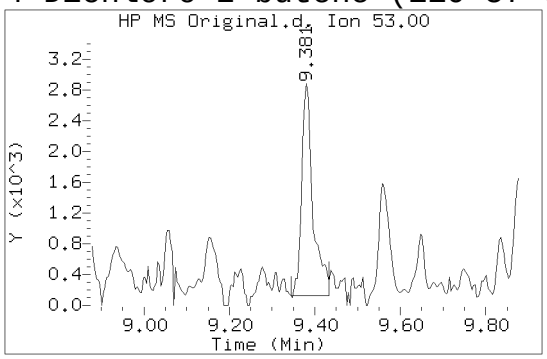
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060606.d
Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

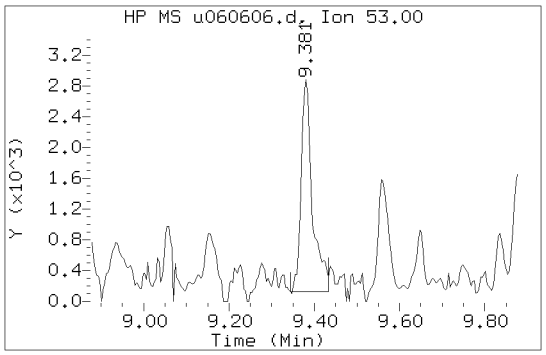
BEFORE

MASS
53
AREA
5142
HEIGHT
2759
08-Jun-2023
14:56
linh
pham



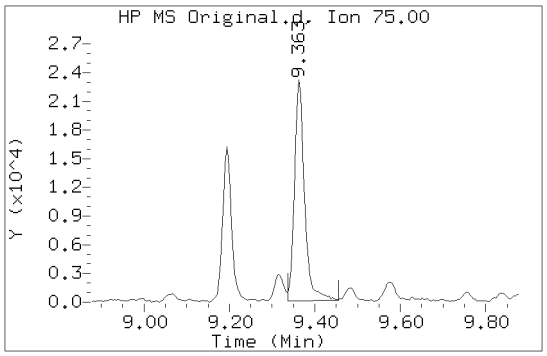
AFTER

MASS
53
AREA
5142
HEIGHT
2759
21-Jun-2023
13:47
linh
pha



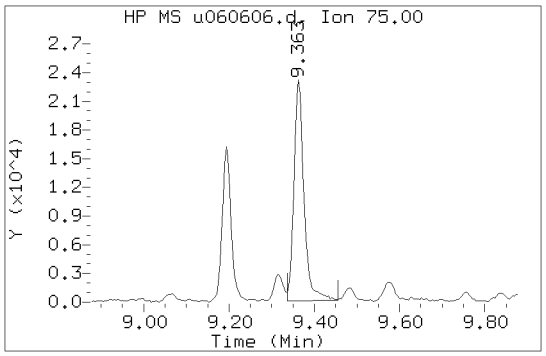
BEFORE

MASS
75
AREA
38567
HEIGHT
23094
08-Jun-2023
14:56
linh
pham



AFTER

MASS
75
AREA
38567
HEIGHT
23094
21-Jun-2023
13:47
linh
pha

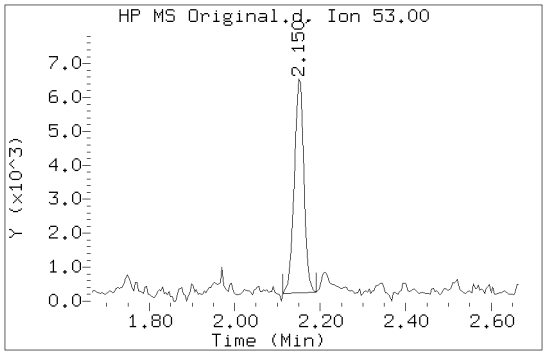


Chloroprene (126-99-8)

Reason Code:

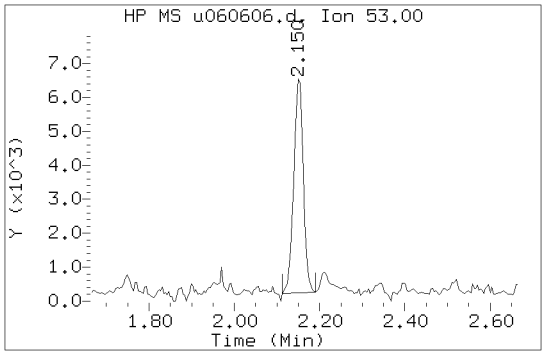
BEFORE

MASS
53
AREA
9849
HEIGHT
6297
08-Jun-2023
14:56
linh
pham



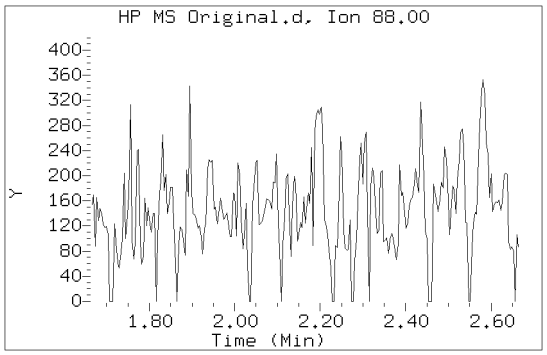
AFTER

MASS
53
AREA
9849
HEIGHT
6297
21-Jun-2023
13:47
linh
pha



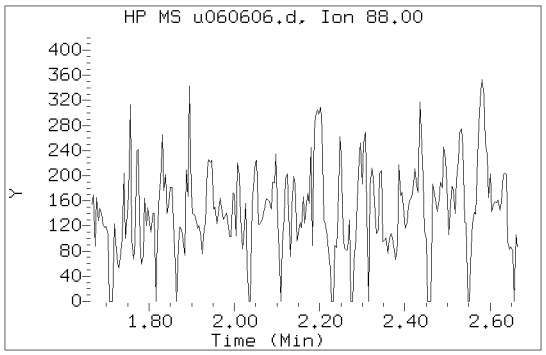
BEFORE

MASS
88
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



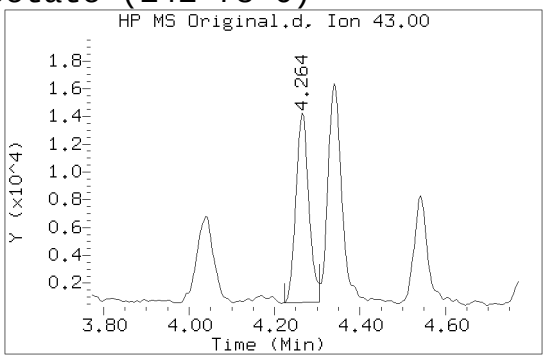
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060606.d
Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

Ethyl Acetate (141-78-6)

Reason Code:

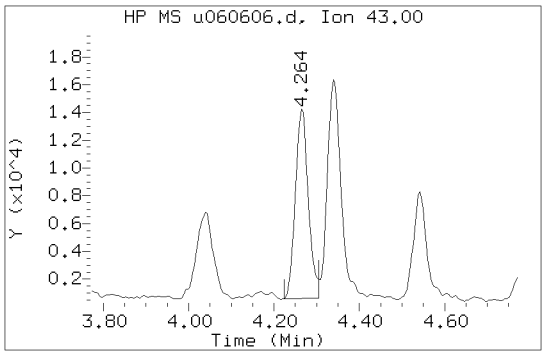
BEFORE

MASS
43
AREA
29376
HEIGHT
13625
08-Jun-2023
14:56
linh
pham



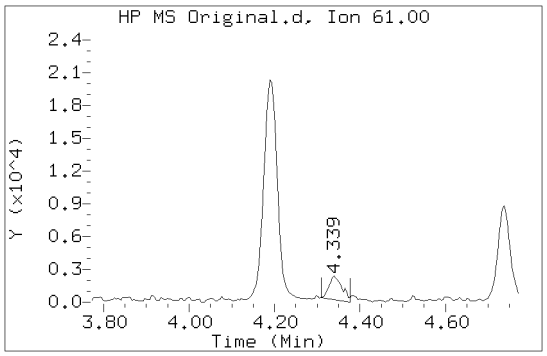
AFTER

MASS
43
AREA
29376
HEIGHT
13625
21-Jun-2023
13:47
linh
pha



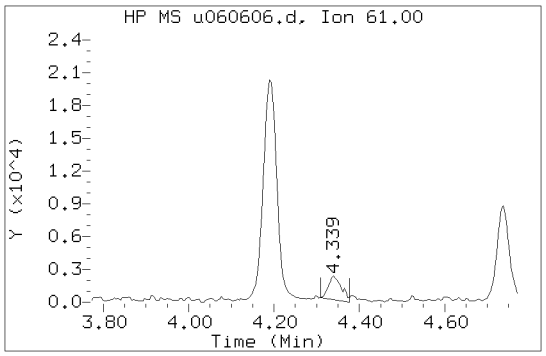
BEFORE

MASS
61
AREA
4693
HEIGHT
2196
08-Jun-2023
14:56
linh
pham



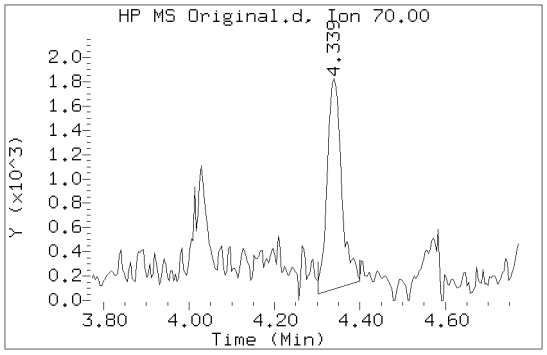
AFTER

MASS
61
AREA
4693
HEIGHT
2196
21-Jun-2023
13:47
linh
pha



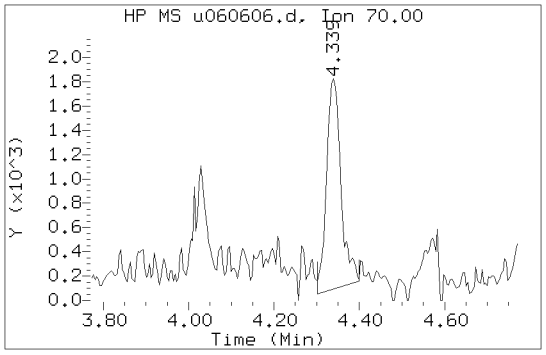
BEFORE

MASS
70
AREA
4078
HEIGHT
1731
08-Jun-2023
14:56
linh
pham



AFTER

MASS
70
AREA
4078
HEIGHT
1731
21-Jun-2023
13:47
linh
pha

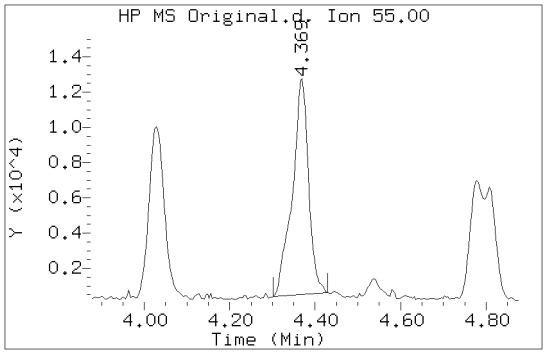


Methyl Acrylate (96-33-3)

Reason Code:

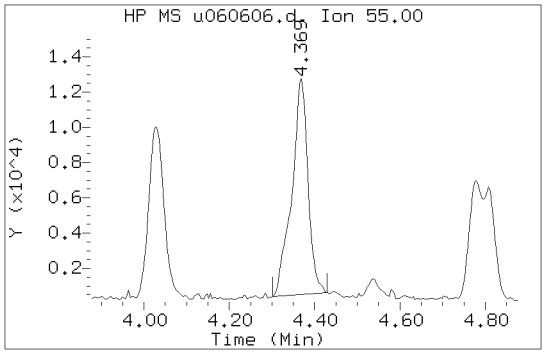
BEFORE

MASS
55
AREA
32767
HEIGHT
12241
08-Jun-2023
14:56
linh
pham



AFTER

MASS
55
AREA
32767
HEIGHT
12241
21-Jun-2023
13:47
linh
pha



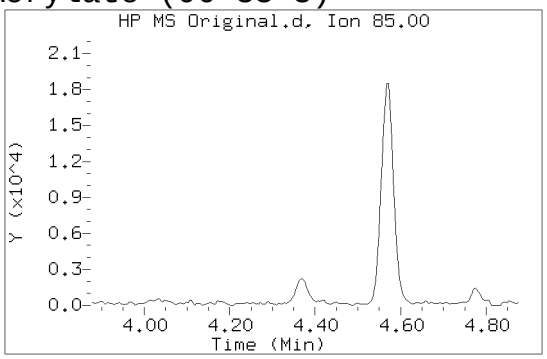
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060606.d
Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

Methyl Acrylate (96-33-3)

Reason Code:

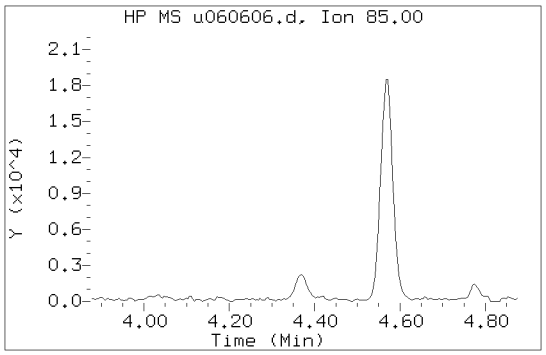
BEFORE

MASS
85
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
85
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

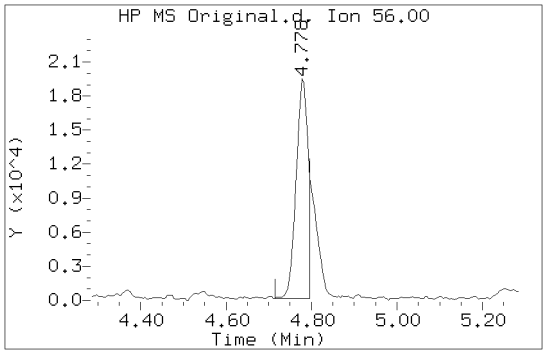


Cyclohexane (110-82-7)

Reason Code:

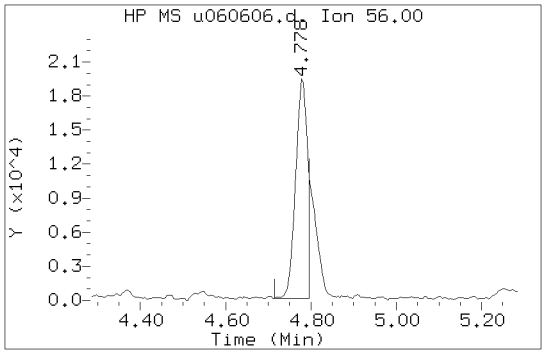
BEFORE

MASS
56
AREA
37840
HEIGHT
19339
08-Jun-2023
14:56
linh
pham



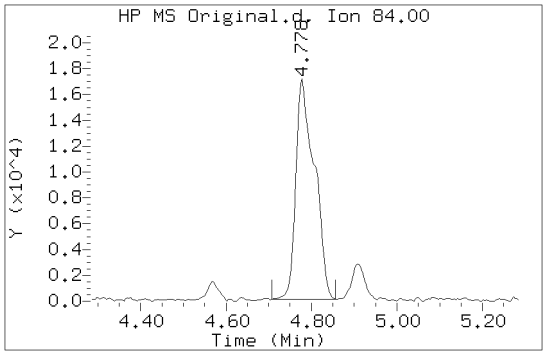
AFTER

MASS
56
AREA
37840
HEIGHT
19339
21-Jun-2023
13:47
linh
pha



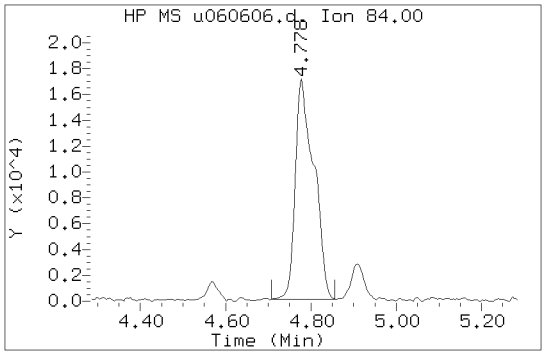
BEFORE

MASS
84
AREA
52176
HEIGHT
17059
08-Jun-2023
14:56
linh
pham



AFTER

MASS
84
AREA
52176
HEIGHT
17059
21-Jun-2023
13:47
linh
pha



BEFORE

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69
AREA
30602
HEIGHT
10254
08-Jun-2023
14:56
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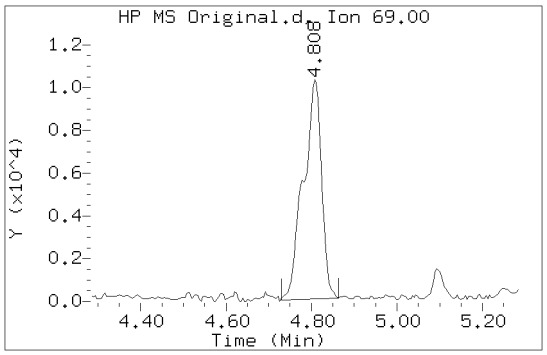
pham



AFTER

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21-Jun-2023
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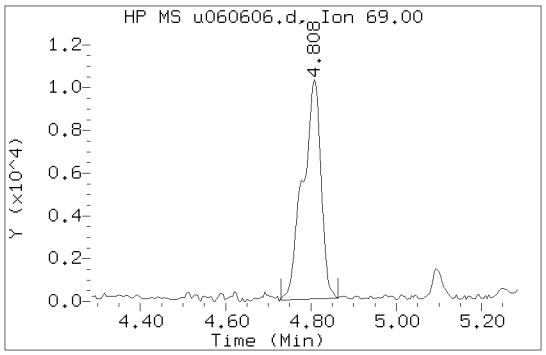

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Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

Allyl alcohol (107-18-6)

Reason Code:

BEFORE

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13437
08-Jun-2023
14:56
linh
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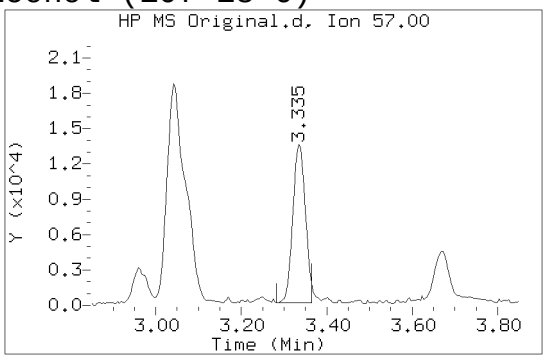

AFTER

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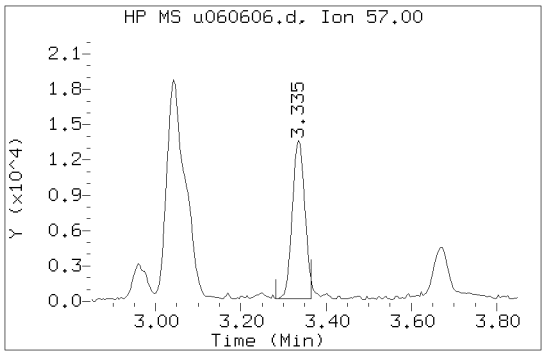

Epichlorohydrin (106-89-8)

Reason Code:

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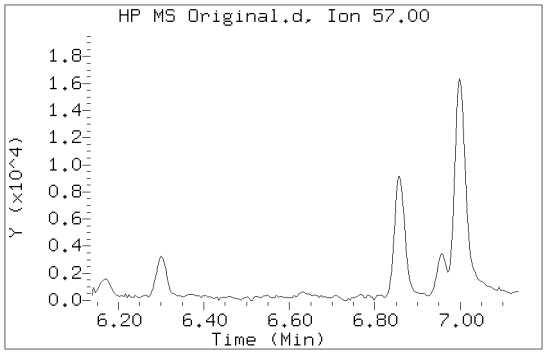

AFTER

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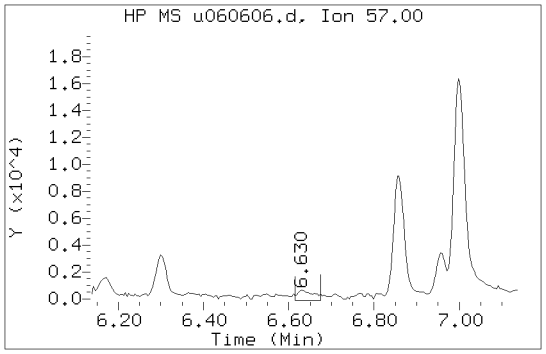

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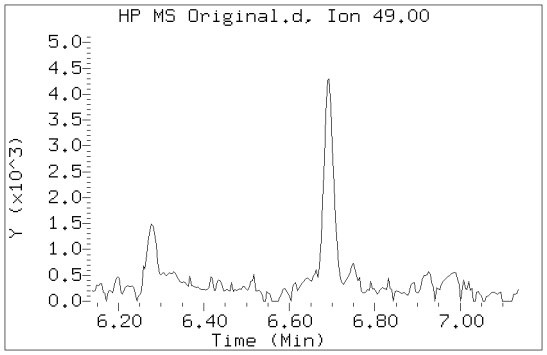

AFTER

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21-Jun-2023
13:47
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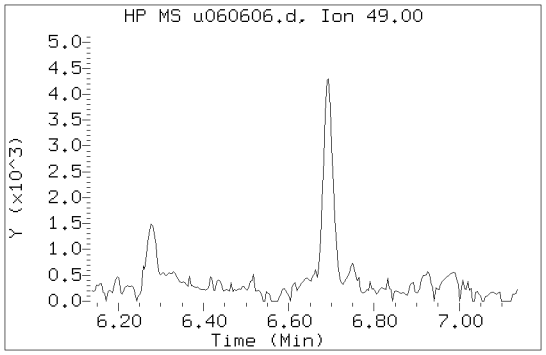

n-Butyl acetate (123-86-4)

Reason Code:

BEFORE

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08-Jun-2023
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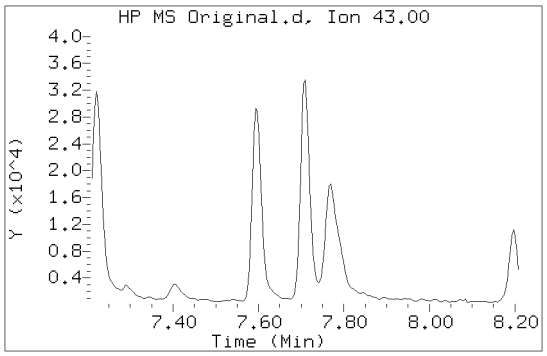

AFTER

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13:47
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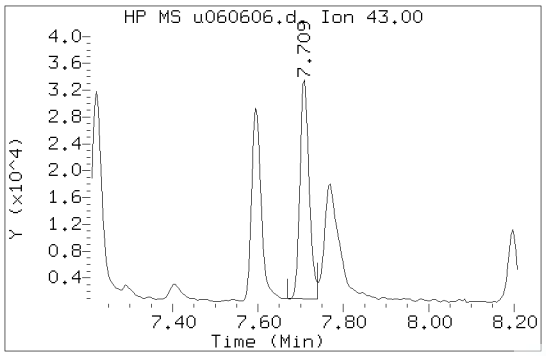

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Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

n-Butyl acetate (123-86-4)

Reason Code:

BEFORE
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HEIGHT
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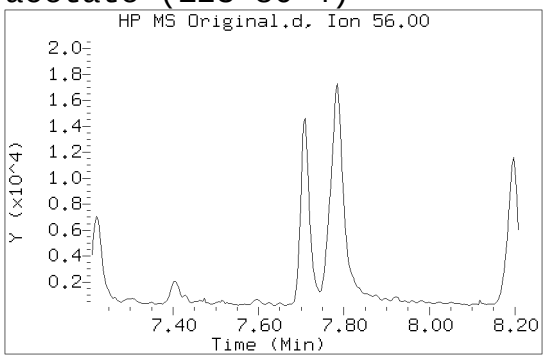
08-Jun-2023
14:56
linh
pham



AFTER
MASS
56
AREA
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14102
21-Jun-2023
13:47
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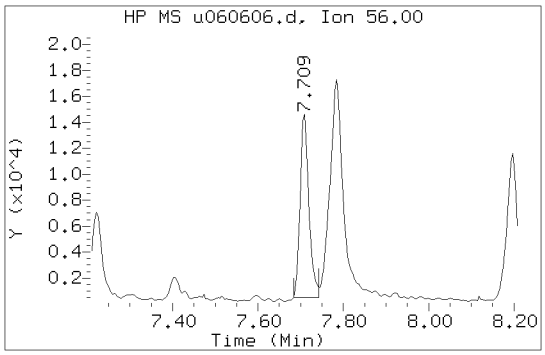

BEFORE
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87
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08-Jun-2023
14:56
linh
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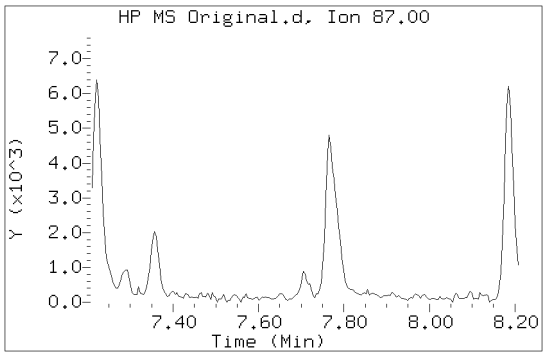

AFTER
MASS
87
AREA
1088
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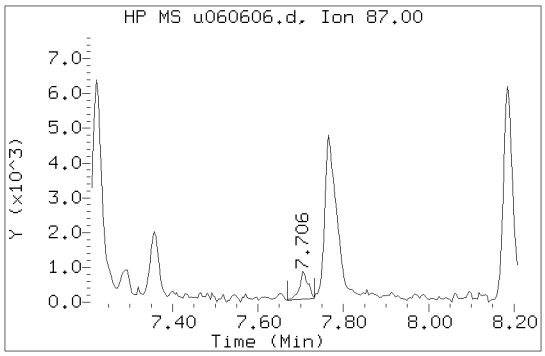
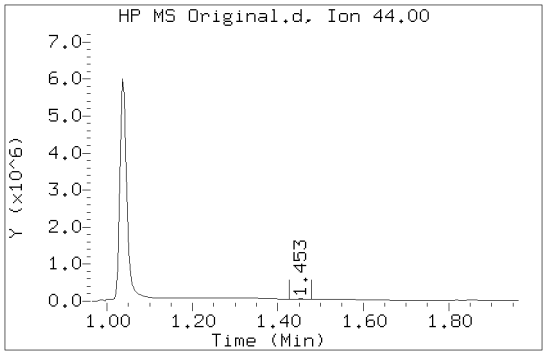
786
21-Jun-2023
13:47
linh
pha



Acetaldehyde (75-07-0)

Reason Code:

BEFORE
MASS
44
AREA
14773
HEIGHT
16936
08-Jun-2023
14:56
linh
pham



AFTER
MASS
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HEIGHT
16936
21-Jun-2023
13:47
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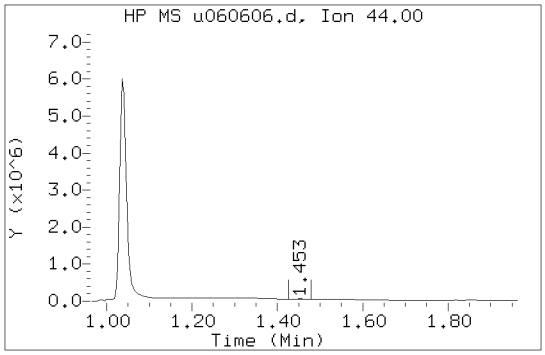

BEFORE
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HEIGHT
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08-Jun-2023
14:56
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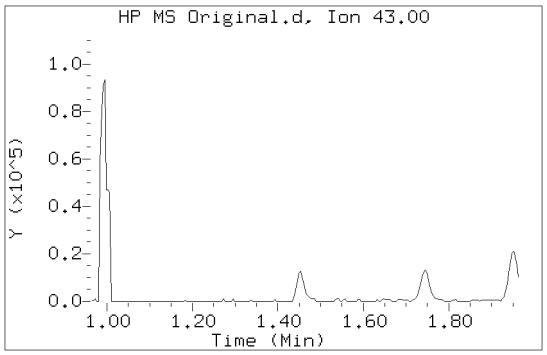
pham



AFTER
MASS
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AREA
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HEIGHT
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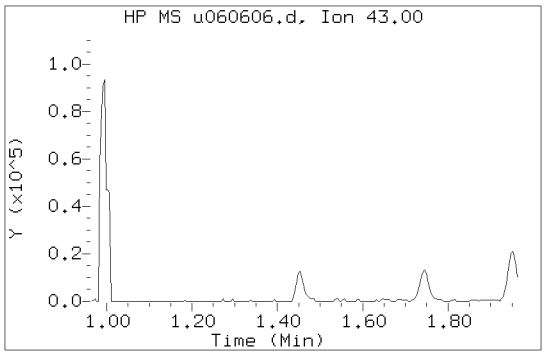
21-Jun-2023
13:47
linh
pha



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Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

MASS
42
AREA
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HEIGHT
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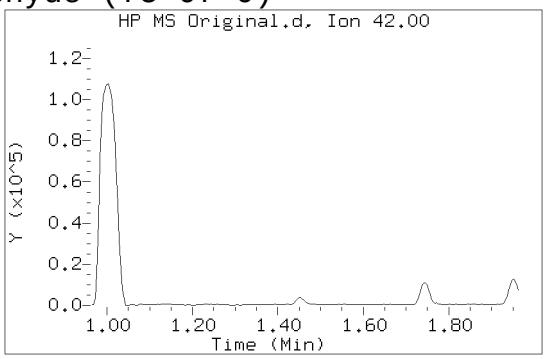
08-Jun-2023
14:56
linh
pham



AFTER

MASS
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AREA
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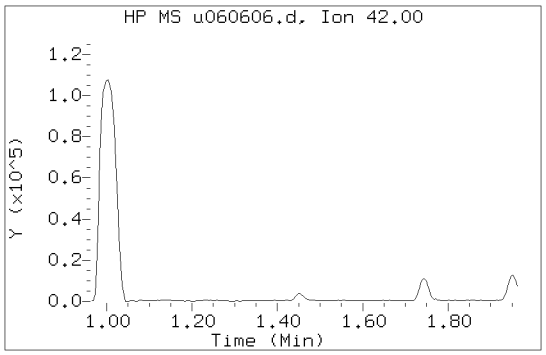
HEIGHT
0
21-Jun-2023
13:47
linh
pha



Dimethyl Disulfide (624-92-0)

Reason Code:

BEFORE

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HEIGHT
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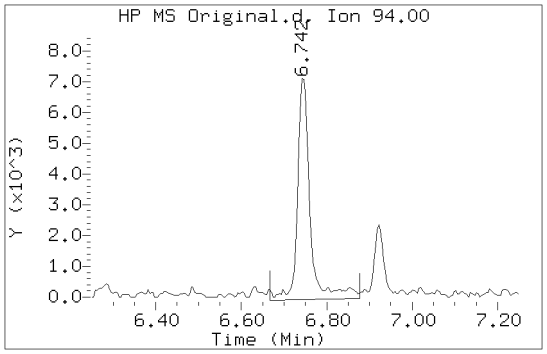
08-Jun-2023
14:56
linh
pham



AFTER

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21-Jun-2023
13:47
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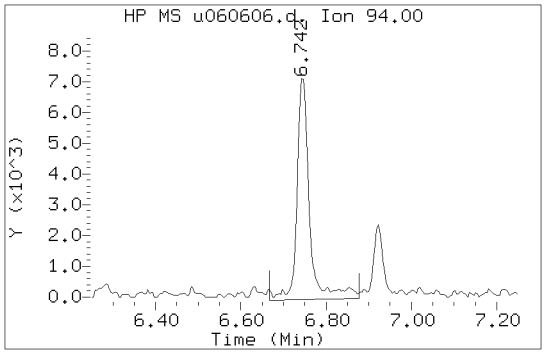

BEFORE

MASS
79
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HEIGHT
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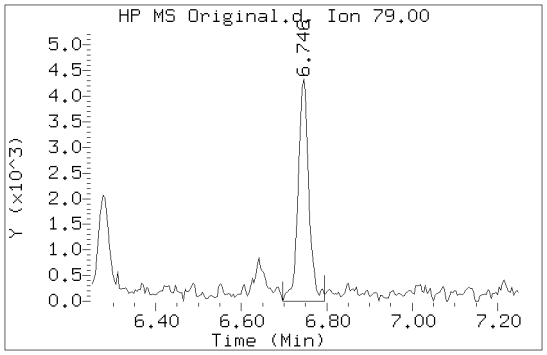
08-Jun-2023
14:56
linh
pham



AFTER

MASS
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AREA
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4338
21-Jun-2023
13:47
linh
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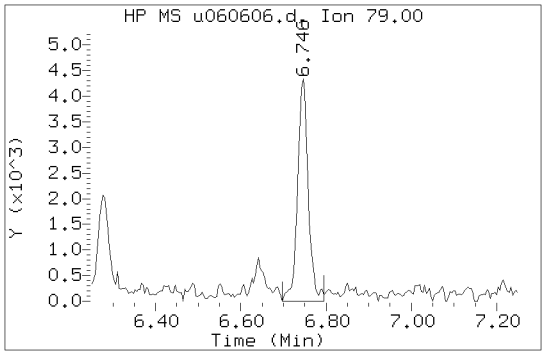

BEFORE

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AREA
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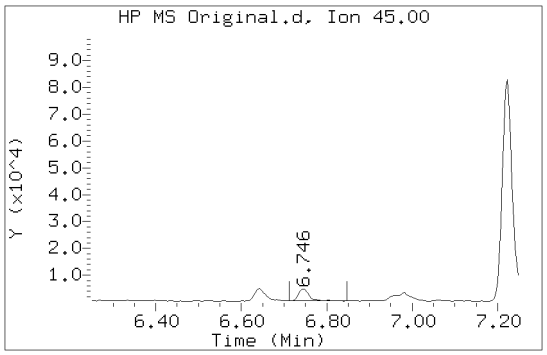
08-Jun-2023
14:56
linh
pham



AFTER

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AREA
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21-Jun-2023
13:47
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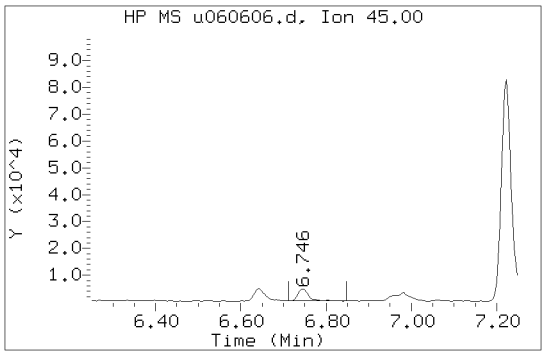

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Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

Toluene-d8 (2037-26-5)

Reason Code:

BEFORE
MASS
98
AREA
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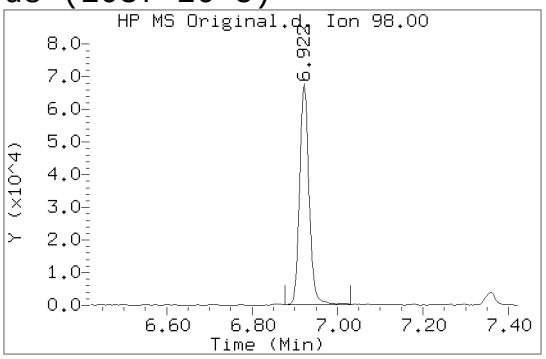
HEIGHT
67651
08-Jun-2023
14:56
linh
pham



AFTER
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13:47
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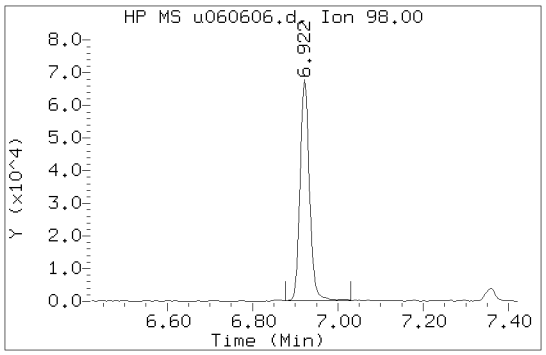

BEFORE
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6274
08-Jun-2023
14:56
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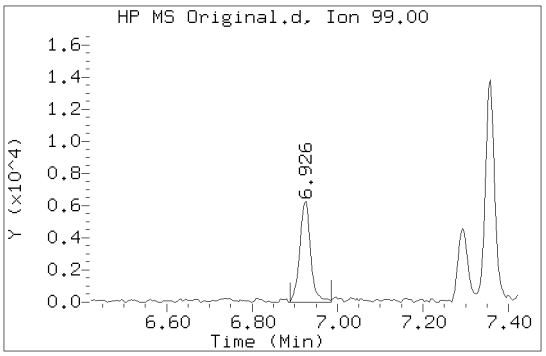
pham



AFTER
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21-Jun-2023
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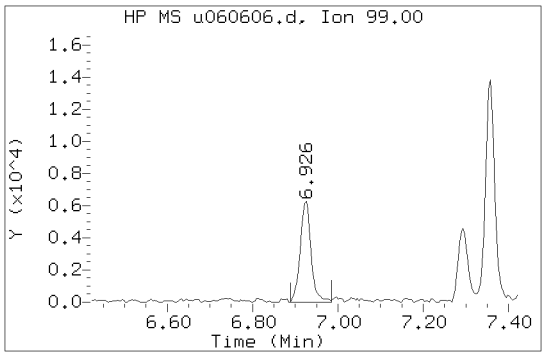

BEFORE
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08-Jun-2023
14:56
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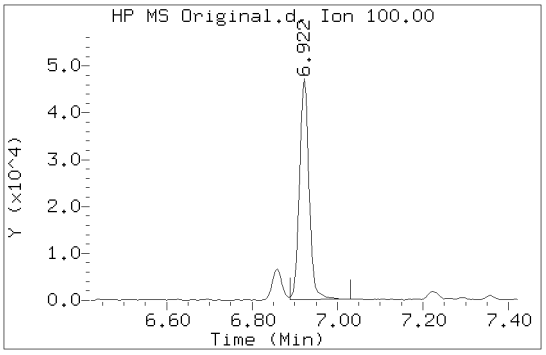
pham



AFTER
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21-Jun-2023
13:47
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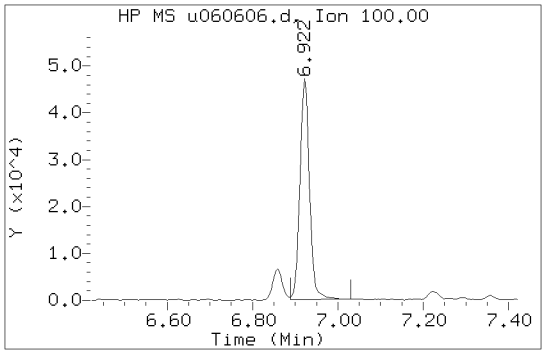

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Report Date: 21-Jun-2023 13:47

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060607.D
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Inj Date : 06-JUN-2023 13:28
Operator : PC Inst ID: VOA9.i
Smp Info : VSTD001;VSTD001;1;3;
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
Meth Date : 21-Jun-2023 13:45 pcabasca Quant Type: ISTD
Cal Date : 06-JUN-2023 13:28 Cal File: U060607.D
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14

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)	679602	50.0000	
	2 Dichlorodifluoromethane	85	1.160	1.160	(0.241)	5058	1.00000	0.88(a)
	5 Vinyl Chloride	62	1.374	1.374	(0.285)	5942	1.00000	0.82(a)
	7 Chloroethane	64	1.696	1.696	(0.352)	5340	1.00000	1.10(a)
	8 Trichlorofluoromethane	101	1.891	1.891	(0.393)	6909	1.00000	0.83(a)
	11 1,1-Dichloroethene	96	2.330	2.330	(0.484)	4736	1.00000	0.91(a)
	15 Iodomethane	142	2.465	2.465	(0.512)	3593	2.00000	10.69(TM)
	18 Methyl tert-butyl ether	73	3.076	3.076	(0.639)	16686	1.00000	1.05(a)
	19 Carbon Disulfide	76	2.517	2.517	(0.523)	25547	2.00000	1.85(a)
	20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.634)	5007	1.00000	0.89(a)
	22 1,1-Dichloroethane	63	3.514	3.514	(0.730)	11574	1.00000	1.08(a)
	24 2-Butanone	43	4.272	4.272	(0.887)	7341	2.00000	2.36(aM)
	26 2,2-Dichloropropane	77	4.174	4.174	(0.867)	6247	1.00000	1.27(a)
	27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.870)	6668	1.00000	0.99(a)
	28 Chloroform	83	4.571	4.571	(0.949)	10748	1.00000	0.96(a)
	29 Bromochloromethane	128	4.474	4.474	(0.929)	4161	1.00000	1.10(a)
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	5853	1.00000	0.71(a)
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	7815	1.00000	0.92(a)
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	7674	1.00000	1.04(a)
	33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	8428	1.00000	0.97(a)
	34 Carbon Tetrachloride	117	4.905	4.905	(0.883)	5676	1.00000	0.84(a)

$	35	1,2-Dichloroethane-d4	65	5.096	5.096 (1.058)	6027	1.00000	0.30(a)
*	36	1,4-Difluorobenzene	114	5.554	5.554 (1.000)	1002093	50.0000	

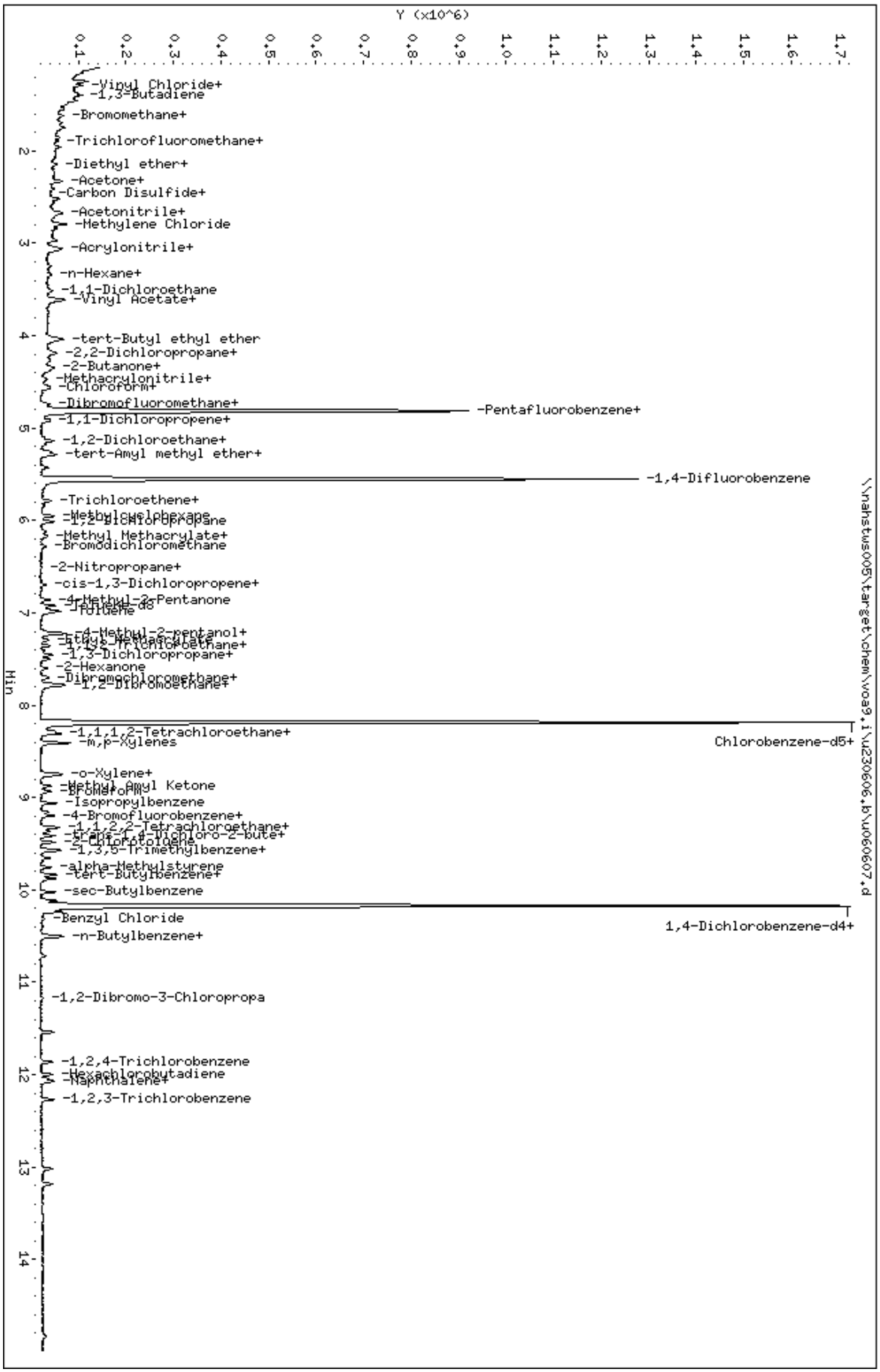
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	37 Benzene	78	5.137	5.137	(0.925)	21926	1.00000	0.90(a)
	38 Trichloroethene	130	5.790	5.790	(1.043)	7055	1.00000	1.00(a)
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	6686	1.00000	0.88(a)
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	6571	1.00000	1.01(a)
	44 Dibromomethane	93	6.120	6.120	(1.102)	4245	1.00000	1.03(a)
	45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	12749	2.00000	1.87(a)
	46 cis-1,3-Dichloropropene	75	6.697	6.697	(1.206)	6985	1.00000	2.57(a)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	934282	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	18686	1.00000	0.88(a)
	50 Toluene	91	6.982	6.982	(0.853)	24364	1.00000	0.96(a)
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.296)	5962	1.00000	2.69(aM)
	52 2-Hexanone	43	7.597	7.597	(0.928)	10155	2.00000	2.14(a)
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	6320	1.00000	1.19(a)
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	10678	1.00000	0.99(a)
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	4999	1.00000	0.79(a)
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	6715	1.00000	1.08(a)
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	6817	1.00000	1.04(a)
	58 1-Chlorohexane	55	8.196	8.196	(1.476)	4887	1.00000	0.94(aM)
	59 Chlorobenzene	112	8.211	8.211	(1.003)	19148	1.00000	1.05(a)
	60 1,1,1,2-Tetrachloroethane	131	8.286	8.286	(1.012)	5664	1.00000	0.91(a)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	7997	1.00000	0.95(a)
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	17600	2.00000	1.76(a)
	63 o-Xylene	106	8.747	8.747	(1.069)	8615	1.00000	0.87(a)
	64 Styrene	104	8.762	8.762	(1.071)	12462	1.00000	0.79(a)
	66 Bromoform	173	8.924	8.924	(1.090)	3596	1.00000	0.85(Ta)
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	21174	1.00000	0.89(a)
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	9671	1.00000	1.08(a)
$	69 4-Bromofluorobenzene	95	9.197	9.197	(1.124)	8608	1.00000	0.14(a)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	472015	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	7255	1.00000	0.92(a)
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	21667	1.00000	0.87(a)
	74 Bromobenzene	156	9.321	9.321	(0.916)	8241	1.00000	1.03(a)
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	16352	1.00000	0.96(a)
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	17404	1.00000	0.99(a)
	77 4-Chlorotoluene	91	9.580	9.580	(0.942)	18186	1.00000	0.94(a)
	78 tert-Butylbenzene	119	9.838	9.838	(0.967)	15445	1.00000	0.92(a)
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	18732	1.00000	1.05(a)
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	19975	1.00000	0.94(a)
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	16778	1.00000	0.94(a)
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	13868	1.00000	1.02(a)
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	16169	1.00000	1.12(a)
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	14921	1.00000	1.10(a)
	89 1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	1239	1.00000	0.95(aM)
	90 1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	9686	1.00000	1.03(a)
	93 1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	9603	1.00000	1.05(a)
M	94 1,2-Dichloroethylene (total)	96				11675	2.00000	1.88(a)
M	95 Xylenes (total)	106				26215	3.00000	2.64(a)
	141 Cyclohexane	56	4.796	4.796	(0.996)	7781	1.00000	1.14(aM)
	138 Freon TF	101	2.330	2.330	(0.484)	3752	1.00000	0.82(a)
	140 1,3-Butadiene	54	1.400	1.400	(0.291)	5632	1.00000	0.87(a)
	146 Methyl Acetate	43	2.712	2.712	(0.563)	6421	1.00000	1.12(aM)
	148 Tert-Butyl alcohol	59	2.967	2.967	(0.616)	16016	20.0000	20.67(aM)

72	trans-1,4-Dichloro-2-butene	53	9.381	9.381 (1.146)	1083	1.00000	1.00
12	Isobutyl Alcohol	43	5.291	5.291 (1.099)	18069	20.0000	20.46(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
13 Acetonitrile	39	2.667	2.667	(0.554)	7477	10.0000	10.16
40 Methyl Methacrylate	41	6.161	6.161	(1.279)	5203	1.00000	0.89(a)
4 Propionitrile	54	4.343	4.343	(0.902)	10588	10.0000	10.78(aM)
136 n-Hexane	57	3.338	3.338	(0.693)	4787	1.00000	0.97(a)
131 Methyl Acrylate	55	4.365	4.365	(0.907)	7188	1.00000	1.00(aM)
200 Dimethyl Disulfide	94	6.742	6.742	(0.824)	2841	1.00000	4.92(aM)
166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	20474	1.00000	1.12(a)
164 Dicyclopentadiene	66	10.202	10.202	(1.003)	29317	1.00000	1.27(a)
145 alpha-Methylstyrene	118	9.756	9.756	(0.959)	6428	1.00000	4.20(a)
156 Diisopropyl ether	45	3.623	3.623	(0.752)	18372	1.00000	0.96(a)
151 4-Methyl-2-pentanol	45	7.222	7.222	(1.300)	29449	20.0000	19.76
150 Allyl alcohol	57	3.338	3.338	(0.693)	4787	20.0000	20.21
86 Benzyl Chloride	91	10.311	10.311	(1.260)	5481	1.00000	4.38(a)
162 Butyl acrylate	55	8.736	8.736	(1.067)	10827	1.00000	0.97(a)
139 Diethyl ether	59	2.142	2.142	(0.445)	3957	1.00000	0.86(a)
203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	4963	1.00000	2.84(aM)
134 Cyclohexanone	55	9.156	9.156	(0.900)	6822	20.0000	23.31(a)
130 Ethyl Acetate	43	4.272	4.272	(0.887)	6476	1.00000	1.06(aMH)
189 n-Butyl acetate	43	7.713	7.713	(0.942)	10025	1.00000	0.94(aM)
182 Epichlorohydrin	57	6.656	6.656	(1.198)	230	4.00000	12.04(M)
132 n-Butanol	56	5.838	5.838	(1.213)	4225	20.0000	21.55(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Client ID: VSTD001
Sample Info: VSTD001;VSTD001;1;3;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: PC
Column diameter: 0.18

Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060607.d
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

Chloromethane (74-87-3)

BEFORE

MASS
50
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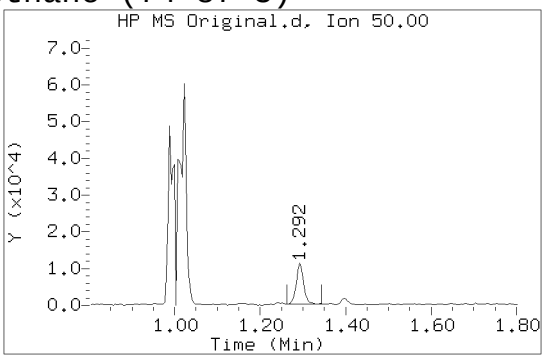
13219
HEIGHT
11073
08-Jun-2023
14:56
linh
pham



BEFORE

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5081
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3855
08-Jun-2023
14:56
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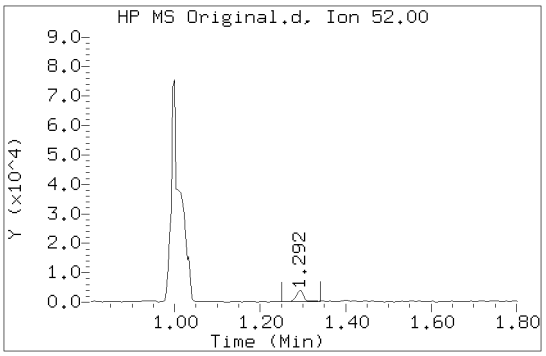

Reason Code:

AFTER

MASS
50
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13219
HEIGHT
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21-Jun-2023
13:47
linh
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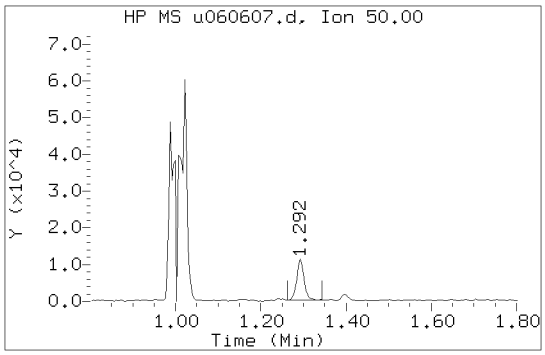

AFTER

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21-Jun-2023
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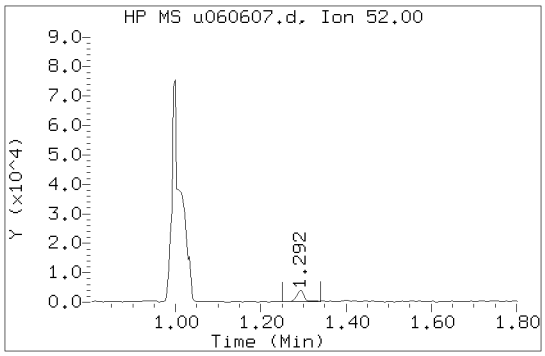

Acrolein (107-02-8)

BEFORE

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AREA
802
HEIGHT
729
08-Jun-2023
14:56
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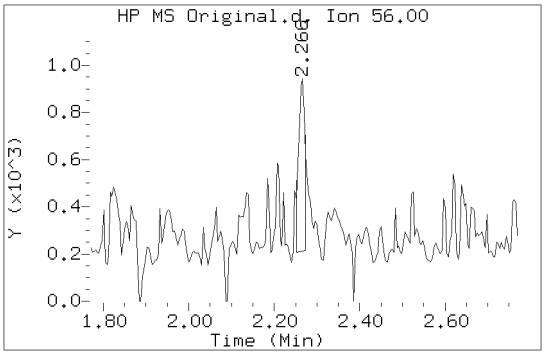
pham



BEFORE

MASS
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AREA
1527
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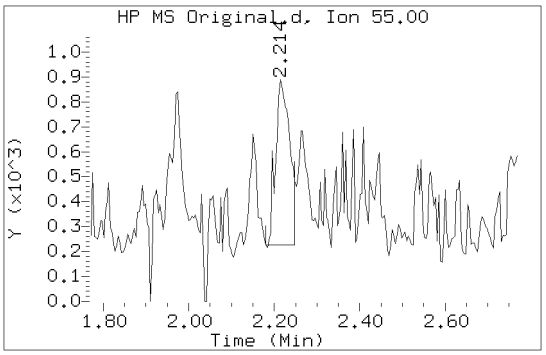
664
08-Jun-2023
14:56
linh
pham



Reason Code:

AFTER

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21-Jun-2023
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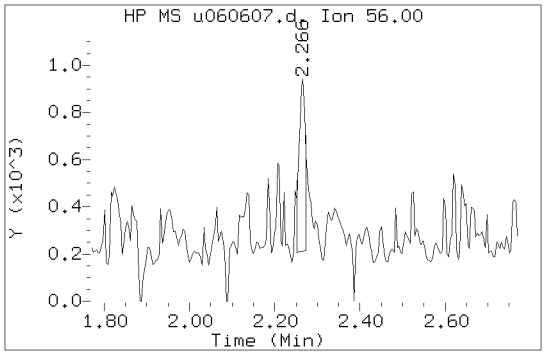

AFTER

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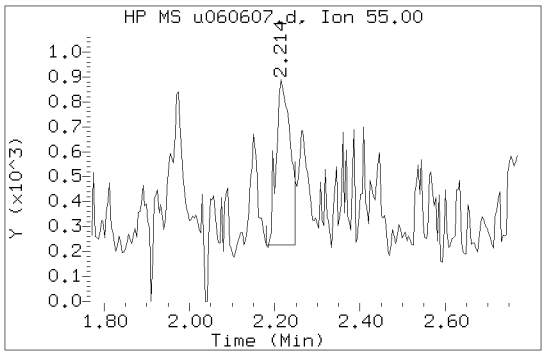

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InstruID : VOA9.i
LabSampID : VSTD001

Iodomethane (74-88-4)

Reason Code:

BEFORE
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3593
HEIGHT
1421
08-Jun-2023
14:56
linh
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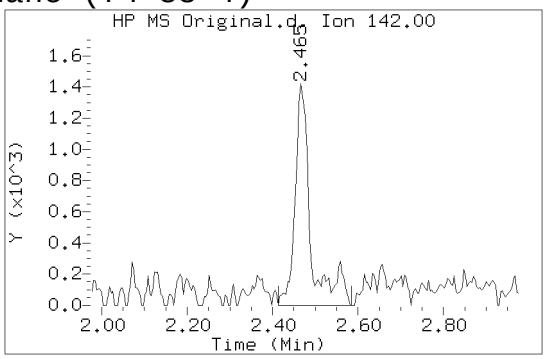

AFTER
MASS
142
AREA
3593
HEIGHT
1421
21-Jun-2023
13:47
linh
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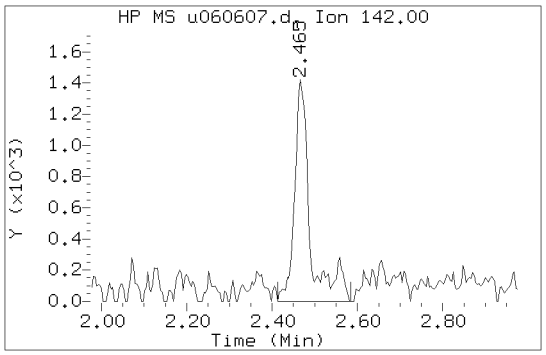

BEFORE
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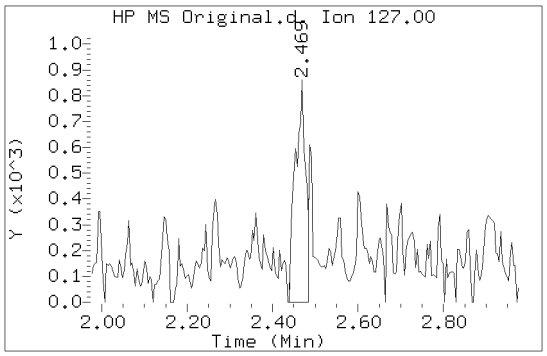
HEIGHT
861
08-Jun-2023
14:56
linh
pham



AFTER
MASS
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21-Jun-2023
13:47
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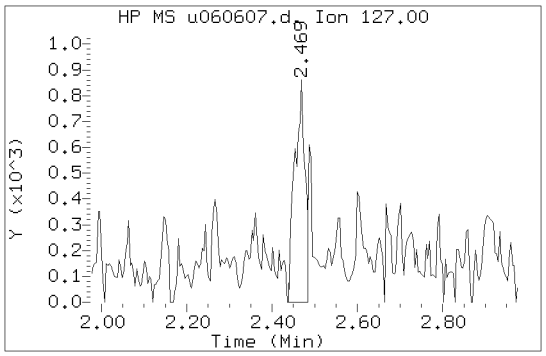

BEFORE
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08-Jun-2023
14:56
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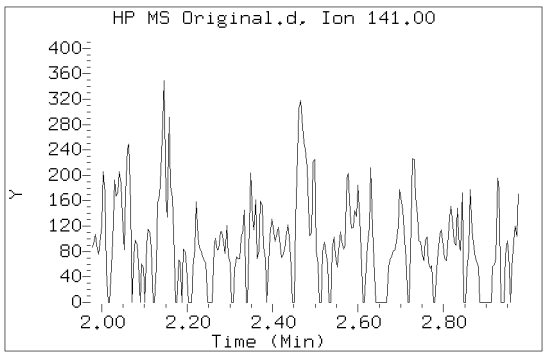

AFTER
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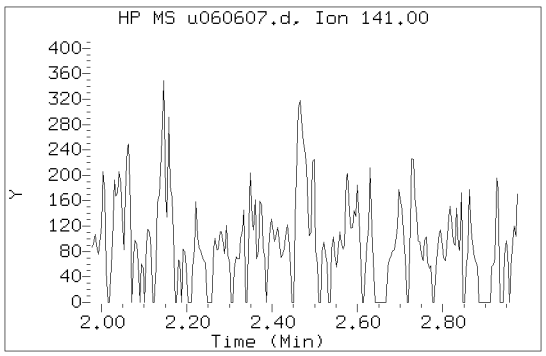

2-Butanone (78-93-3)

Reason Code:

BEFORE
MASS
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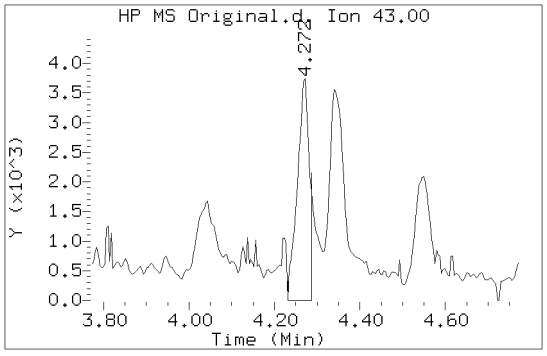
AREA
7341
HEIGHT
3739
08-Jun-2023
14:56
linh
pham



AFTER
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HEIGHT
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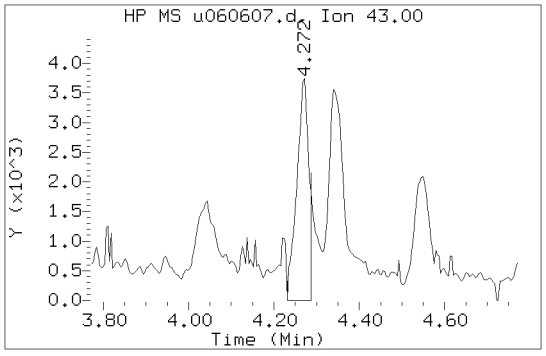
21-Jun-2023
13:47
linh
pha



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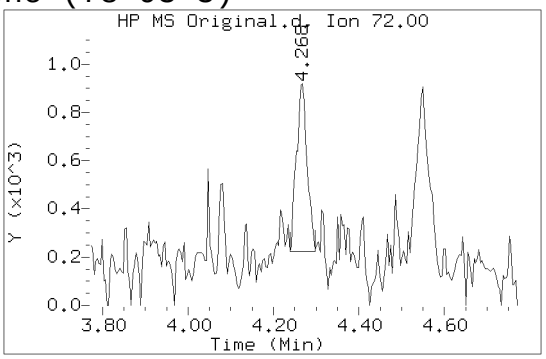
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

2-Butanone (78-93-3)

Reason Code:

BEFORE

MASS
72
AREA
1240
HEIGHT
697
08-Jun-2023
14:56
linh
pham



AFTER

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HEIGHT
697
21-Jun-2023
13:47
linh
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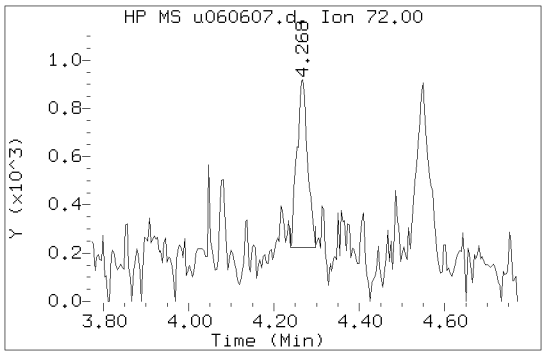
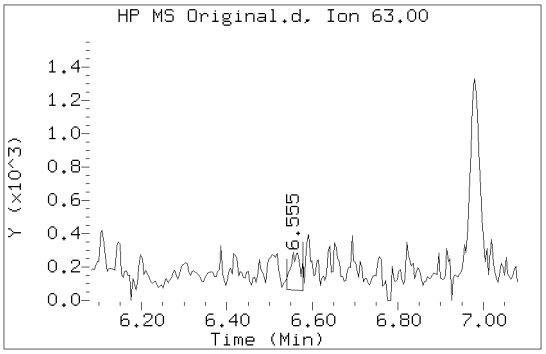


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE

MASS
63
AREA
379
HEIGHT
225
08-Jun-2023
14:56
linh
pham



AFTER

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21-Jun-2023
13:47
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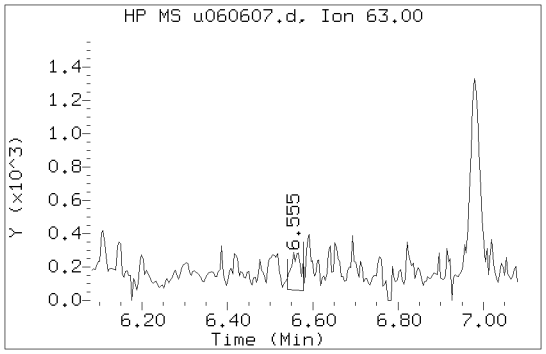

BEFORE

MASS
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AREA
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HEIGHT
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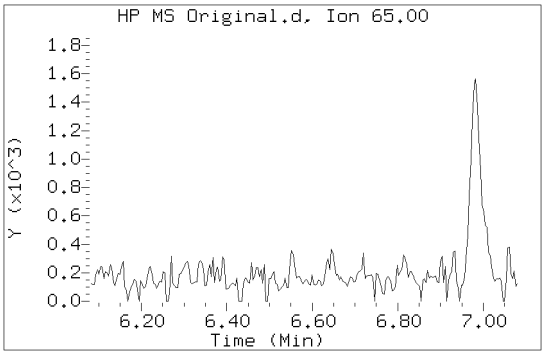
08-Jun-2023
14:56
linh
pham



AFTER

MASS
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AREA
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HEIGHT
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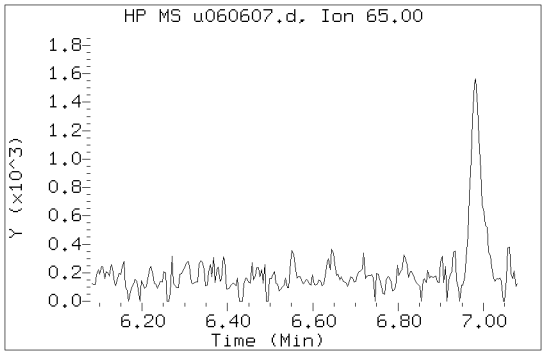
21-Jun-2023
13:47
linh
pha



BEFORE

MASS
106
AREA
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HEIGHT
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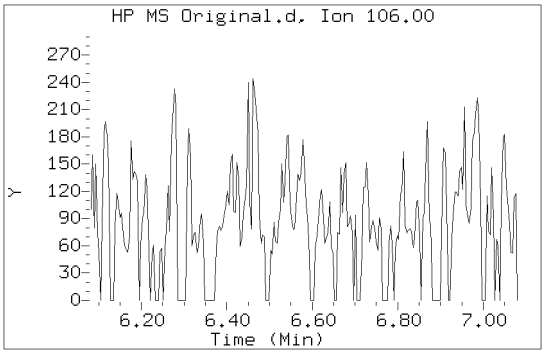
08-Jun-2023
14:56
linh
pham



AFTER

MASS
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HEIGHT
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21-Jun-2023
13:47
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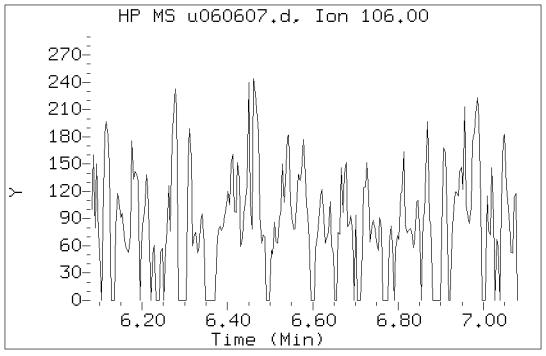

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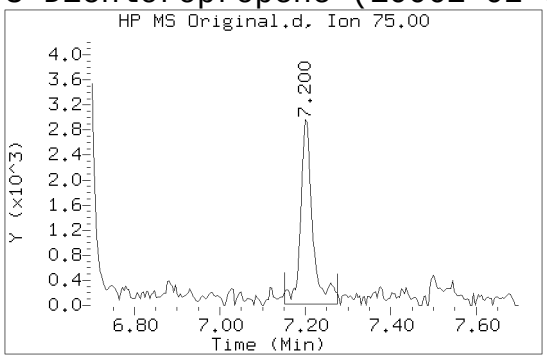
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

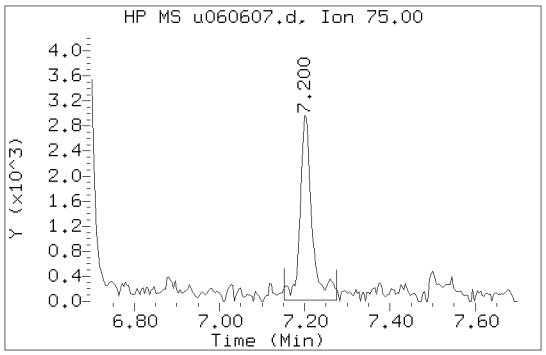
BEFORE

MASS
75
AREA
5962
HEIGHT
2945
08-Jun-2023
14:56
linh
pham



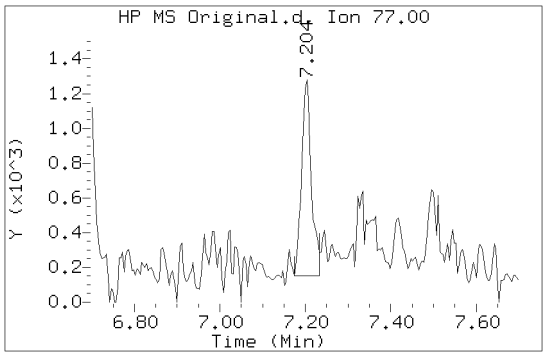
AFTER

MASS
75
AREA
5962
HEIGHT
2945
21-Jun-2023
13:47
linh
pha



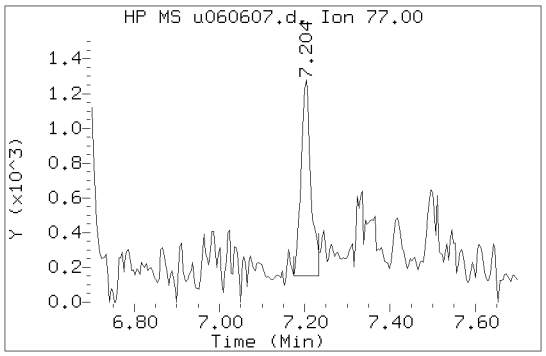
BEFORE

MASS
77
AREA
1844
HEIGHT
1128
08-Jun-2023
14:56
linh
pham



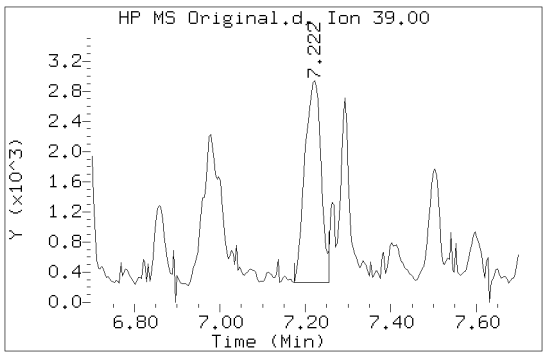
AFTER

MASS
77
AREA
1844
HEIGHT
1128
21-Jun-2023
13:47
linh
pha



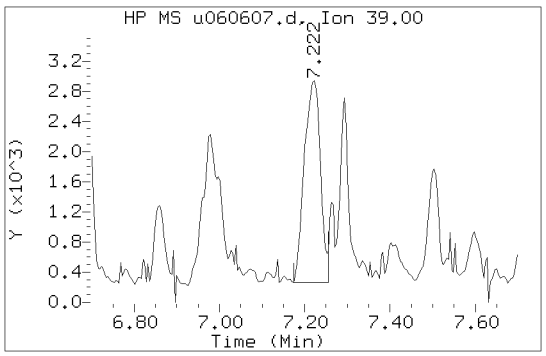
BEFORE

MASS
39
AREA
7143
HEIGHT
2676
08-Jun-2023
14:56
linh
pham



AFTER

MASS
39
AREA
7143
HEIGHT
2676
21-Jun-2023
13:47
linh
pha

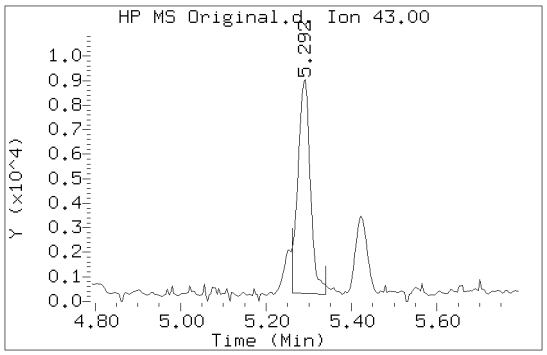


Isobutyl Alcohol (78-83-1)

Reason Code:

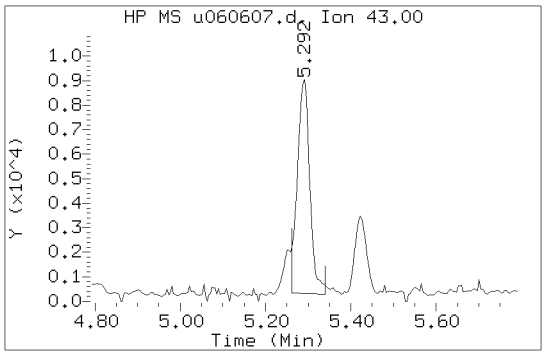
BEFORE

MASS
43
AREA
18069
HEIGHT
8714
08-Jun-2023
14:56
linh
pham



AFTER

MASS
43
AREA
18069
HEIGHT
8714
21-Jun-2023
13:47
linh
pha



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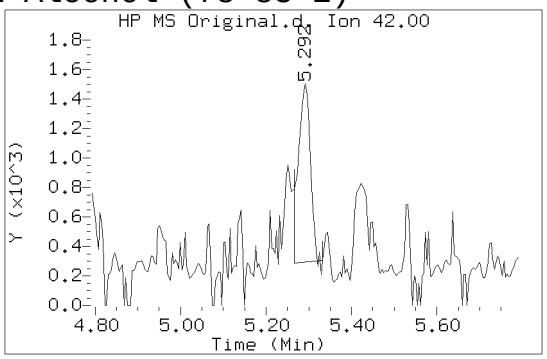
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

Isobutyl Alcohol (78-83-1)

Reason Code:

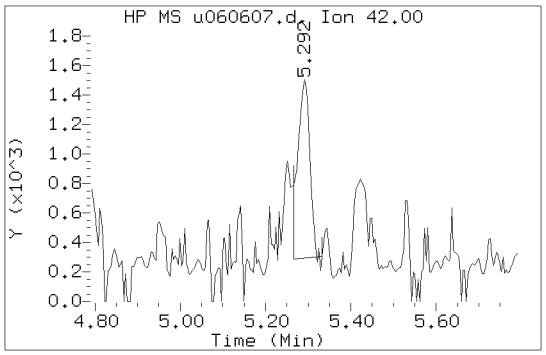
BEFORE

MASS
42
AREA
2425
HEIGHT
1210
08-Jun-2023
14:56
linh
pham



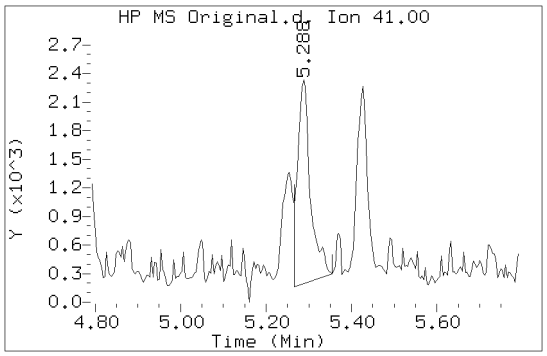
AFTER

MASS
42
AREA
2425
HEIGHT
1210
21-Jun-2023
13:47
linh
pha



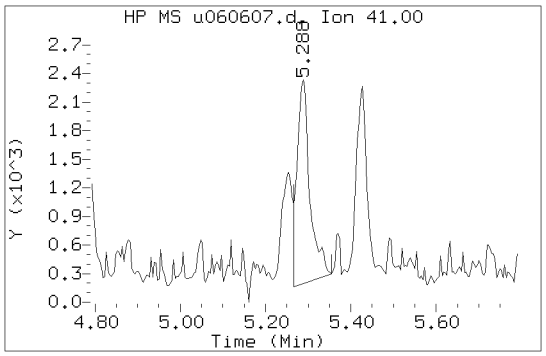
BEFORE

MASS
41
AREA
4613
HEIGHT
2138
08-Jun-2023
14:56
linh
pham



AFTER

MASS
41
AREA
4613
HEIGHT
2138
21-Jun-2023
13:47
linh
pha

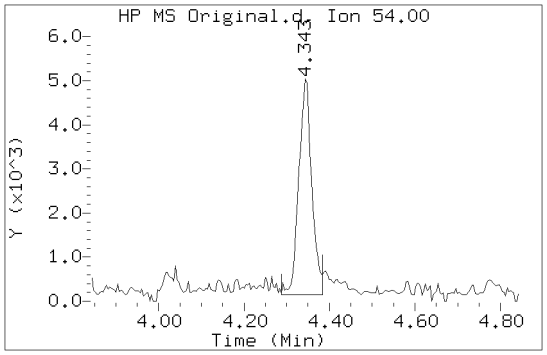


Propionitrile (107-12-0)

Reason Code:

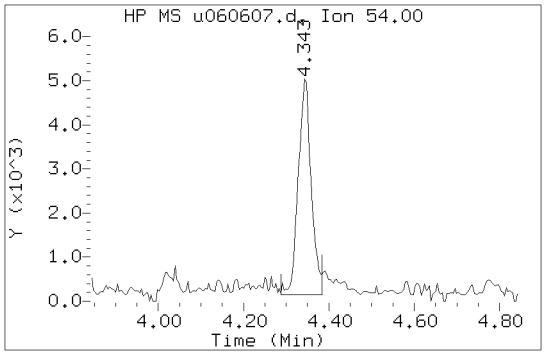
BEFORE

MASS
54
AREA
10588
HEIGHT
4897
08-Jun-2023
14:56
linh
pham



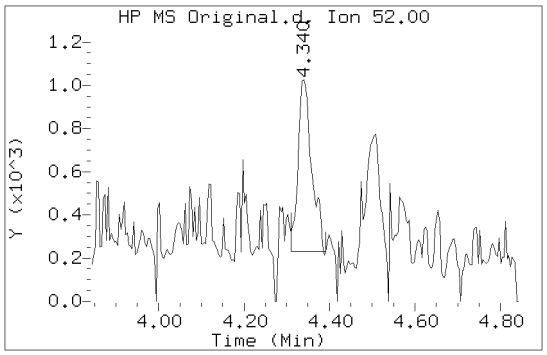
AFTER

MASS
54
AREA
10588
HEIGHT
4897
21-Jun-2023
13:47
linh
pha



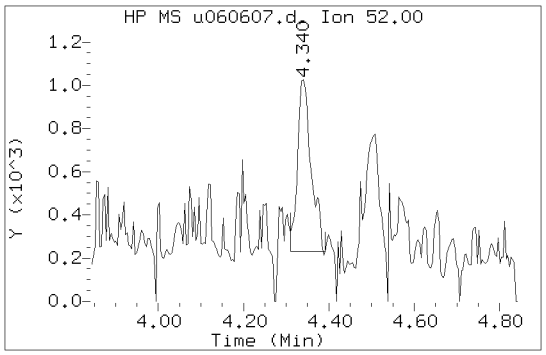
BEFORE

MASS
52
AREA
1789
HEIGHT
794
08-Jun-2023
14:56
linh
pham



AFTER

MASS
52
AREA
1789
HEIGHT
794
21-Jun-2023
13:47
linh
pha



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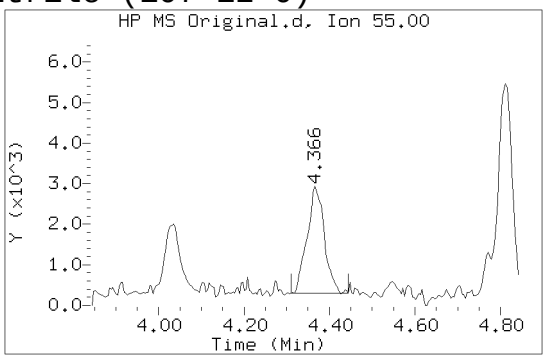
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

Propionitrile (107-12-0)

Reason Code:

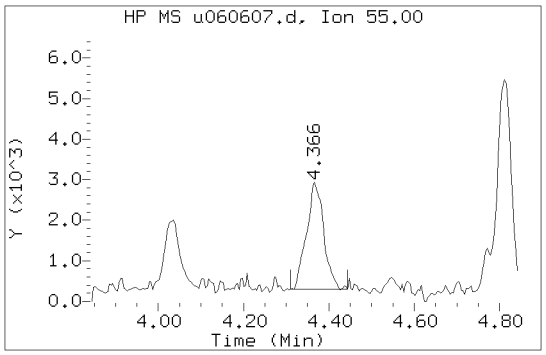
BEFORE

MASS
55
AREA
7500
HEIGHT
2642
08-Jun-2023
14:56
linh
pham



AFTER

MASS
55
AREA
7500
HEIGHT
2642
21-Jun-2023
13:47
linh
pha

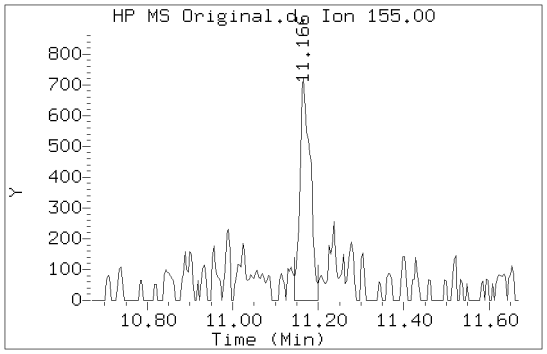


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

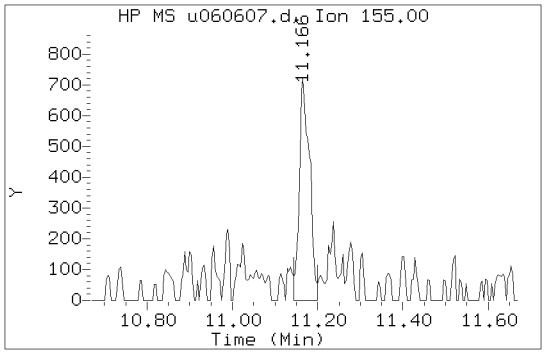
BEFORE

MASS
155
AREA
1239
HEIGHT
719
08-Jun-2023
14:56
linh
pham



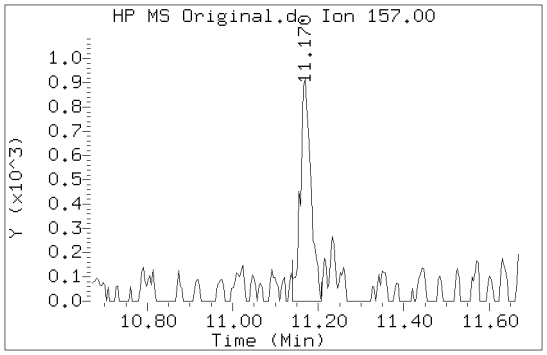
AFTER

MASS
155
AREA
1239
HEIGHT
719
21-Jun-2023
13:47
linh
pha



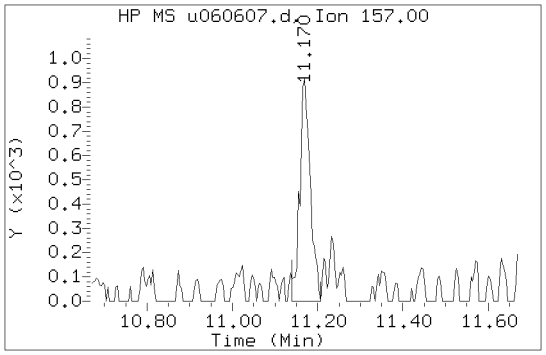
BEFORE

MASS
157
AREA
1601
HEIGHT
916
08-Jun-2023
14:56
linh
pham



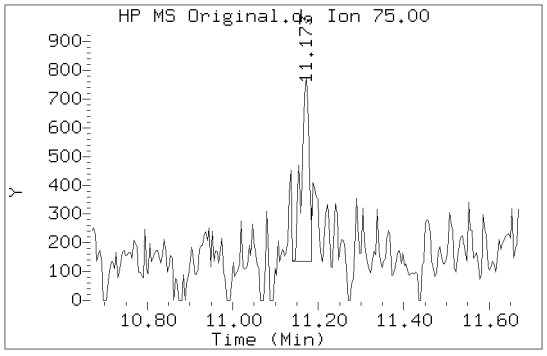
AFTER

MASS
157
AREA
1601
HEIGHT
916
21-Jun-2023
13:47
linh
pha



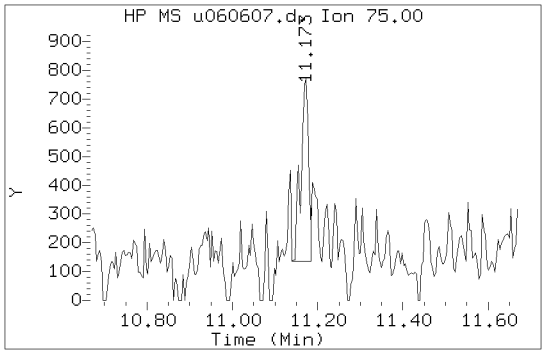
BEFORE

MASS
75
AREA
809
HEIGHT
634
08-Jun-2023
14:56
linh
pham



AFTER

MASS
75
AREA
809
HEIGHT
634
21-Jun-2023
13:47
linh
pha



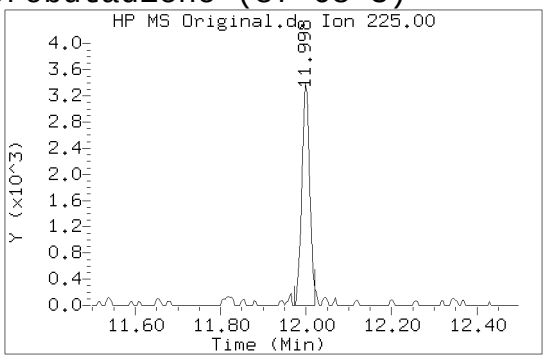
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060607.d
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

Hexachlorobutadiene (87-68-3)

Reason Code:

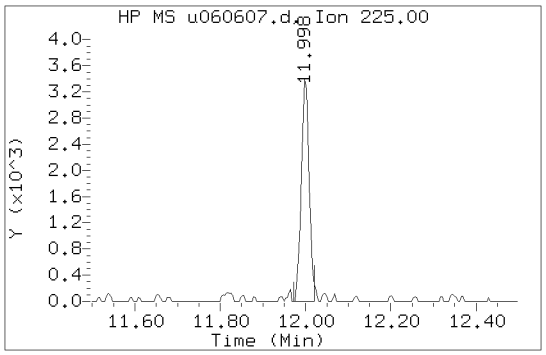
BEFORE

MASS
225
AREA
4470
HEIGHT
3386
08-Jun-2023
14:56
linh
pham



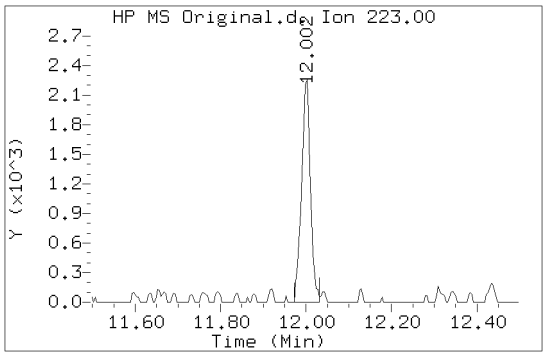
AFTER

MASS
225
AREA
4470
HEIGHT
3386
21-Jun-2023
13:47
linh
pha



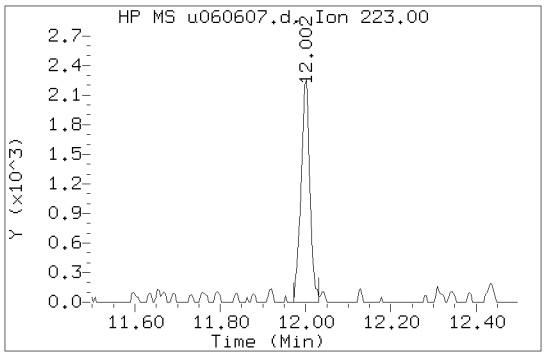
BEFORE

MASS
223
AREA
3352
HEIGHT
2254
08-Jun-2023
14:56
linh
pham



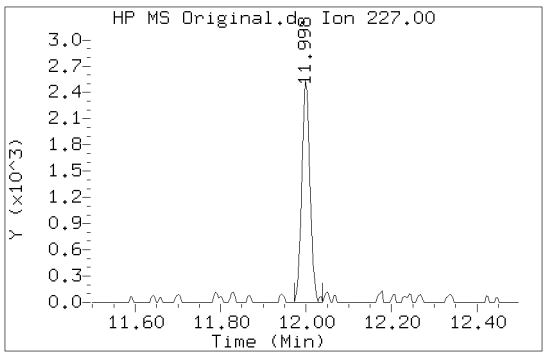
AFTER

MASS
223
AREA
3352
HEIGHT
2254
21-Jun-2023
13:47
linh
pha



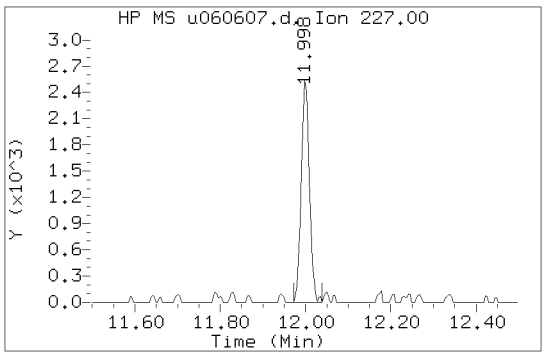
BEFORE

MASS
227
AREA
3477
HEIGHT
2534
08-Jun-2023
14:56
linh
pham



AFTER

MASS
227
AREA
3477
HEIGHT
2534
21-Jun-2023
13:47
linh
pha

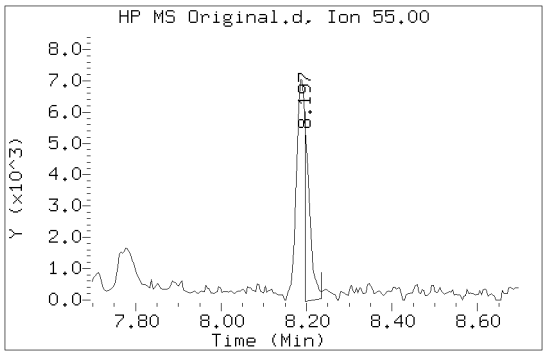


1-Chlorohexane (544-10-5)

Reason Code:

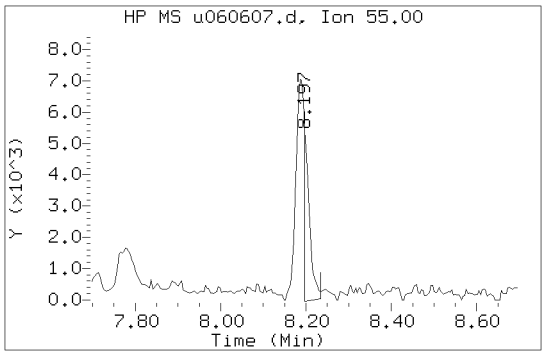
BEFORE

MASS
55
AREA
4887
HEIGHT
5444
08-Jun-2023
14:56
linh
pham



AFTER

MASS
55
AREA
4887
HEIGHT
5444
21-Jun-2023
13:47
linh
pha

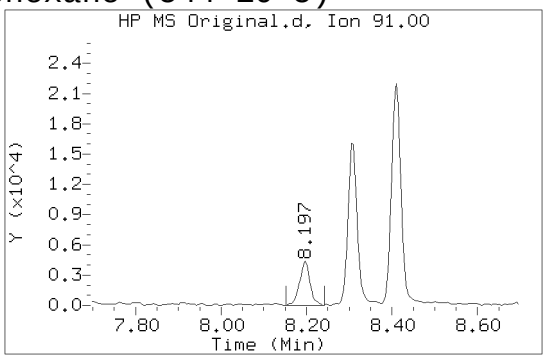


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060607.d
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

1-Chlorohexane (544-10-5)

BEFORE

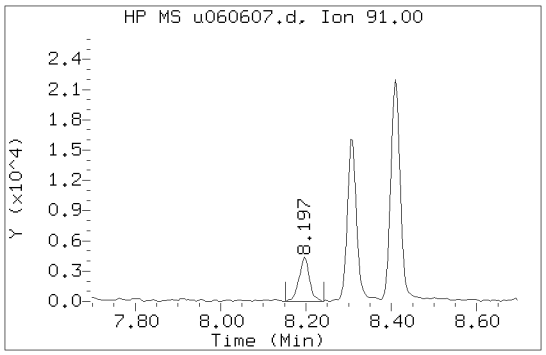
MASS
91
AREA
7655
HEIGHT
4415
08-Jun-2023
14:56
linh
pham



Reason Code:

AFTER

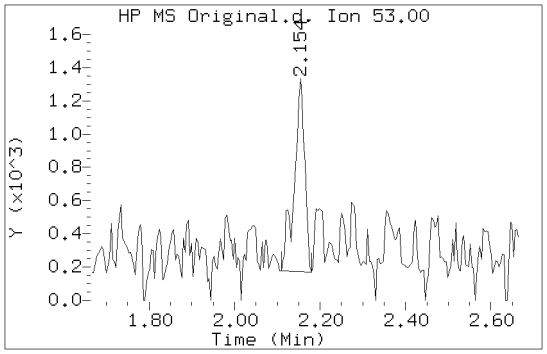
MASS
91
AREA
7655
HEIGHT
4415
21-Jun-2023
13:47
linh
pha



Chloroprene (126-99-8)

BEFORE

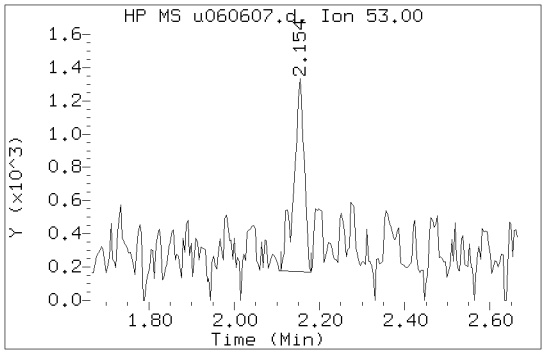
MASS
53
AREA
2027
HEIGHT
1160
08-Jun-2023
14:56
linh
pham



Reason Code:

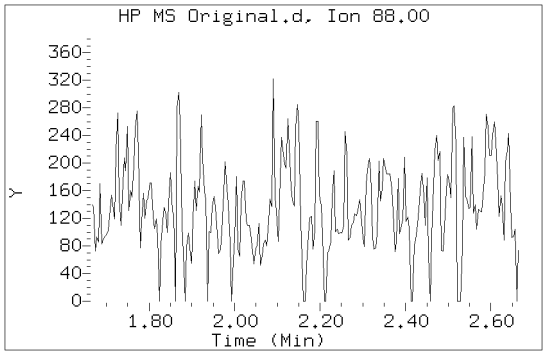
AFTER

MASS
53
AREA
2027
HEIGHT
1160
21-Jun-2023
13:47
linh
pha



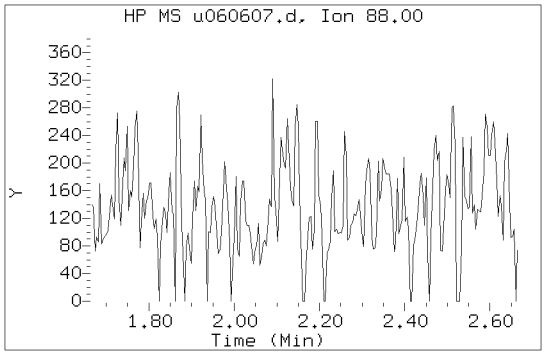
BEFORE

MASS
88
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

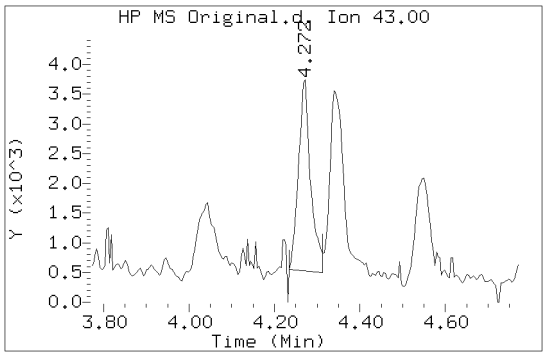
MASS
88
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



Ethyl Acetate (141-78-6)

BEFORE

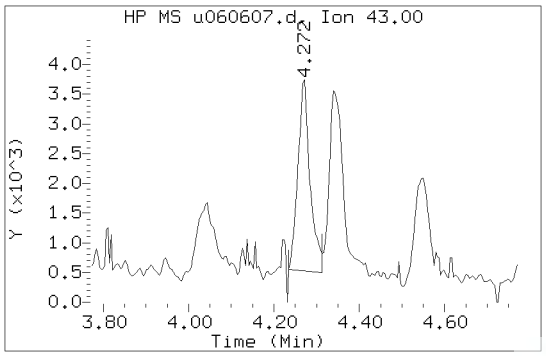
MASS
43
AREA
6476
HEIGHT
3212
08-Jun-2023
14:56
linh
pham



Reason Code:

AFTER

MASS
43
AREA
6476
HEIGHT
3212
21-Jun-2023
13:47
linh
pha



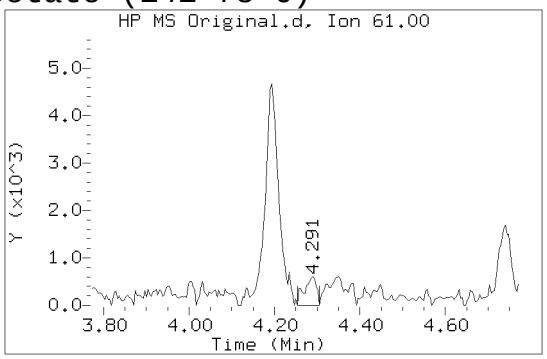
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060607.d
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

Ethyl Acetate (141-78-6)

Reason Code:

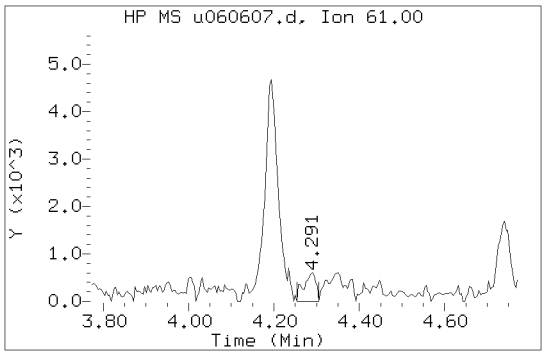
BEFORE

MASS
61
AREA
1204
HEIGHT
613
08-Jun-2023
14:56
linh
pham



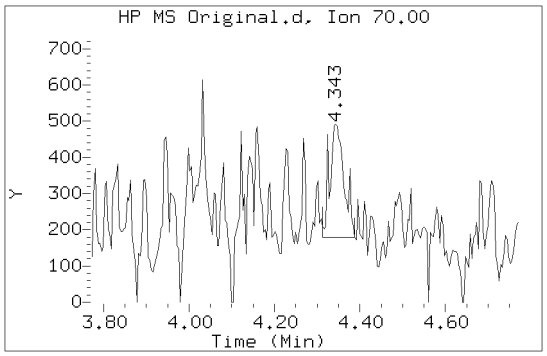
AFTER

MASS
61
AREA
1204
HEIGHT
613
21-Jun-2023
13:47
linh
pha



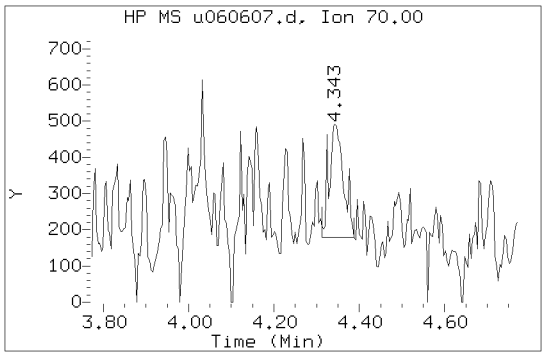
BEFORE

MASS
70
AREA
720
HEIGHT
311
08-Jun-2023
14:56
linh
pham



AFTER

MASS
70
AREA
720
HEIGHT
311
21-Jun-2023
13:47
linh
pha

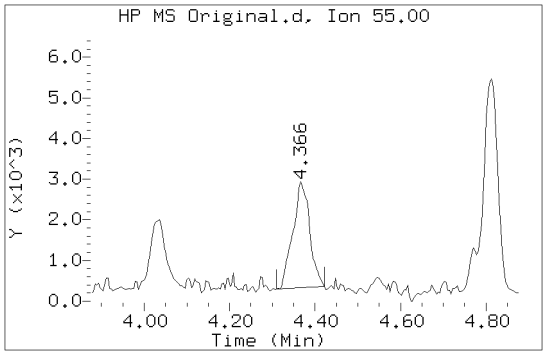


Methyl Acrylate (96-33-3)

Reason Code:

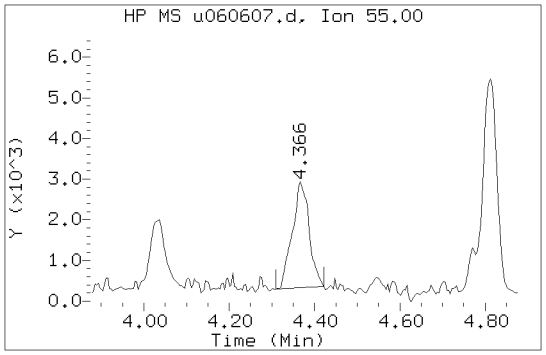
BEFORE

MASS
55
AREA
7188
HEIGHT
2604
08-Jun-2023
14:56
linh
pham



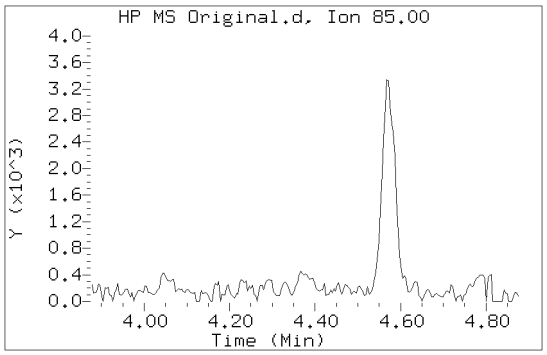
AFTER

MASS
55
AREA
7188
HEIGHT
2604
21-Jun-2023
13:47
linh
pha



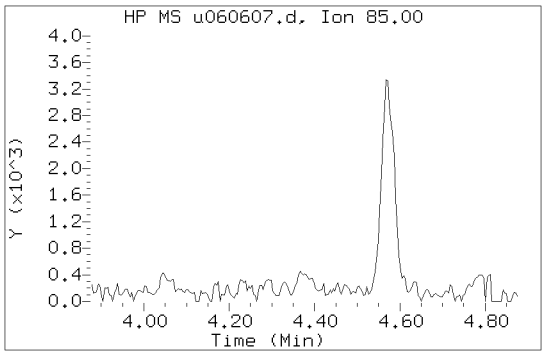
BEFORE

MASS
85
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
85
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



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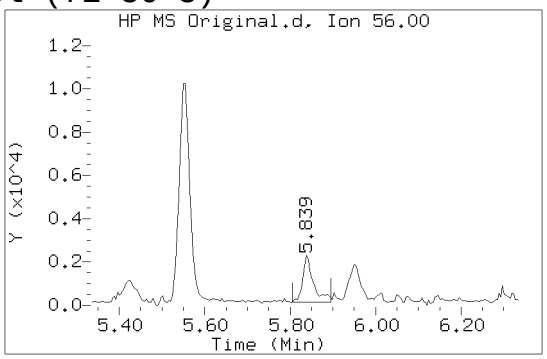
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

n-Butanol (71-36-3)

Reason Code:

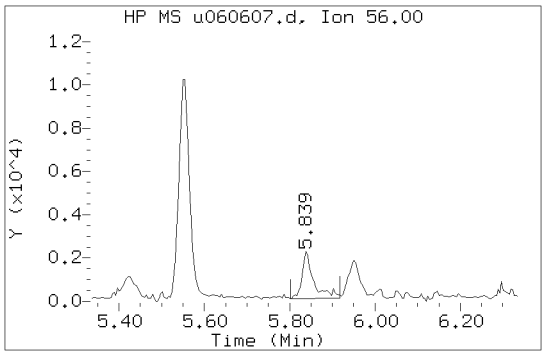
BEFORE

MASS
56
AREA
3831
HEIGHT
2179
08-Jun-2023
14:56
linh
pham



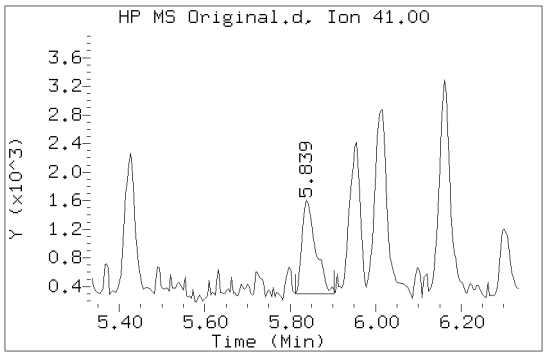
AFTER

MASS
56
AREA
4225
HEIGHT
2201
21-Jun-2023
13:47
linh
pha



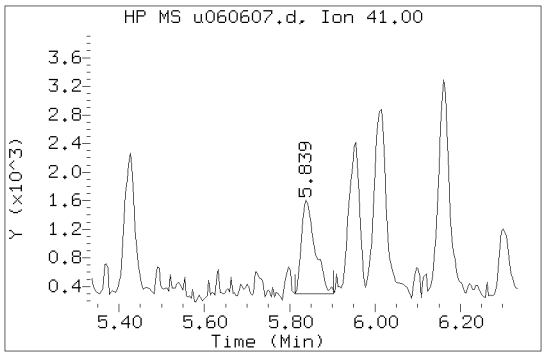
BEFORE

MASS
41
AREA
2978
HEIGHT
1310
08-Jun-2023
14:56
linh
pham



AFTER

MASS
41
AREA
2978
HEIGHT
1310
21-Jun-2023
13:47
linh
pha

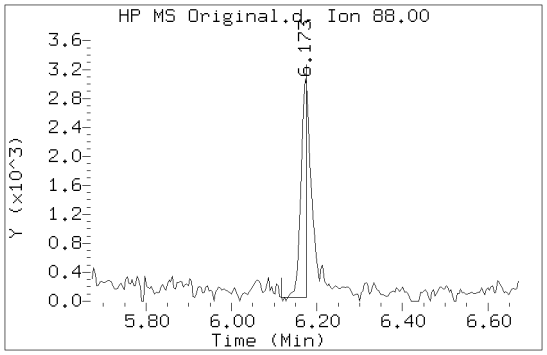


1,4-Dioxane ()

Reason Code:

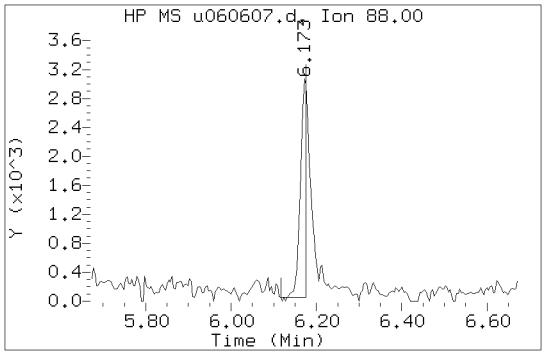
BEFORE

MASS
88
AREA
3065
HEIGHT
3017
08-Jun-2023
14:56
linh
pham



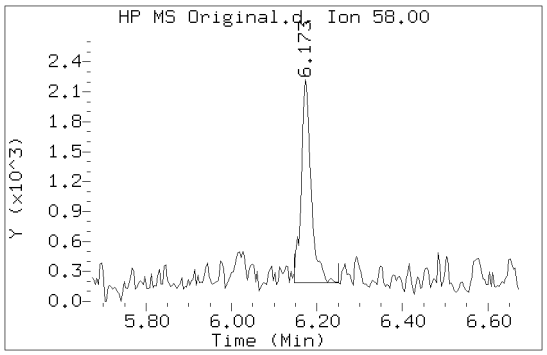
AFTER

MASS
88
AREA
3065
HEIGHT
3017
21-Jun-2023
13:47
linh
pha



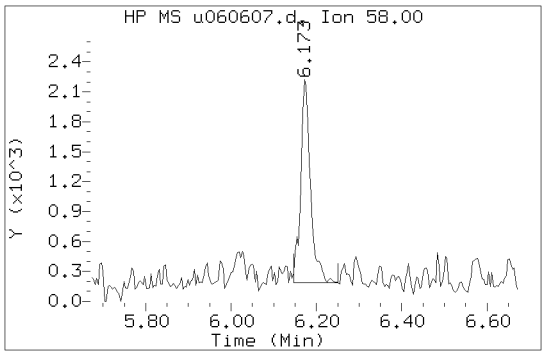
BEFORE

MASS
58
AREA
3335
HEIGHT
2036
08-Jun-2023
14:56
linh
pham



AFTER

MASS
58
AREA
3335
HEIGHT
2036
21-Jun-2023
13:47
linh
pha



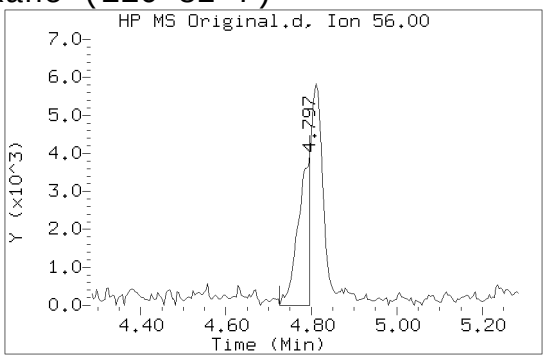
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060607.d
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

Cyclohexane (110-82-7)

Reason Code:

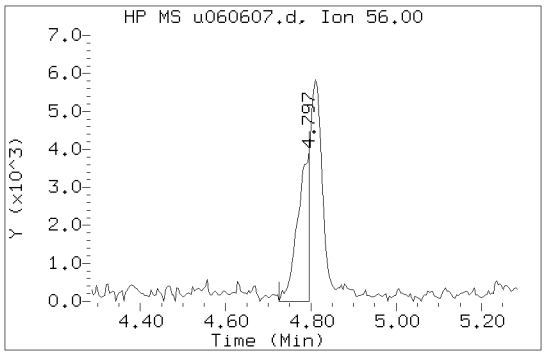
BEFORE

MASS
56
AREA
7781
HEIGHT
3965
08-Jun-2023
14:56
linh
pham



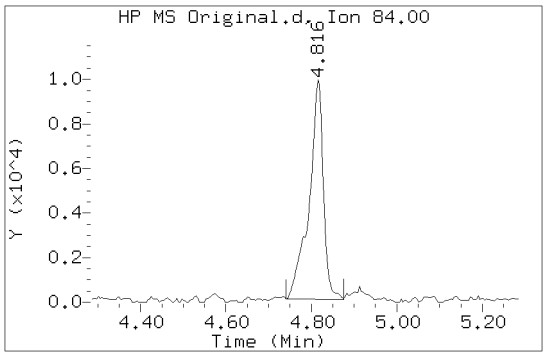
AFTER

MASS
56
AREA
7781
HEIGHT
3965
21-Jun-2023
13:47
linh
pha



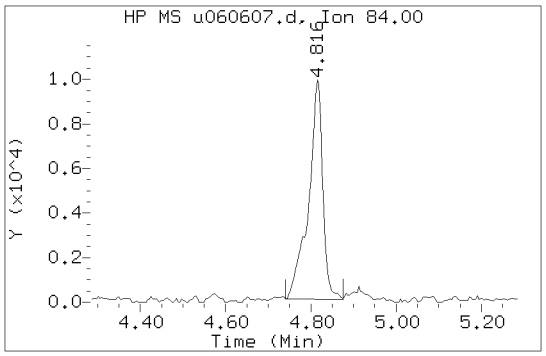
BEFORE

MASS
84
AREA
22992
HEIGHT
9843
08-Jun-2023
14:56
linh
pham



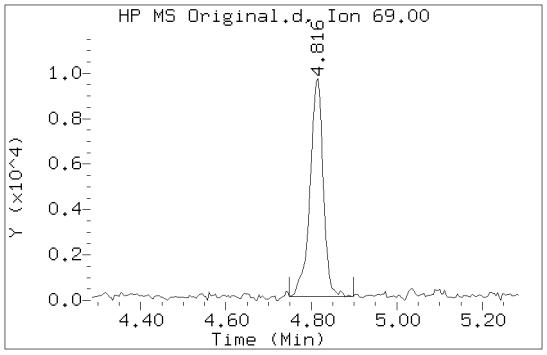
AFTER

MASS
84
AREA
22992
HEIGHT
9843
21-Jun-2023
13:47
linh
pha



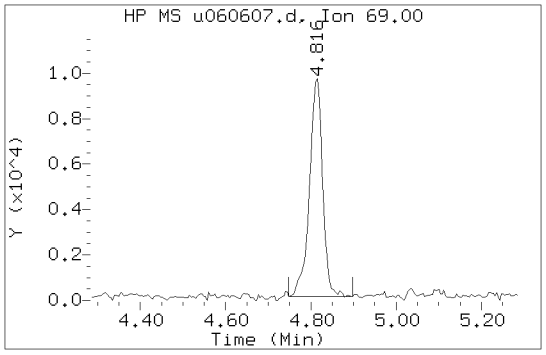
BEFORE

MASS
69
AREA
20740
HEIGHT
9600
08-Jun-2023
14:56
linh
pham



AFTER

MASS
69
AREA
20740
HEIGHT
9600
21-Jun-2023
13:47
linh
pha

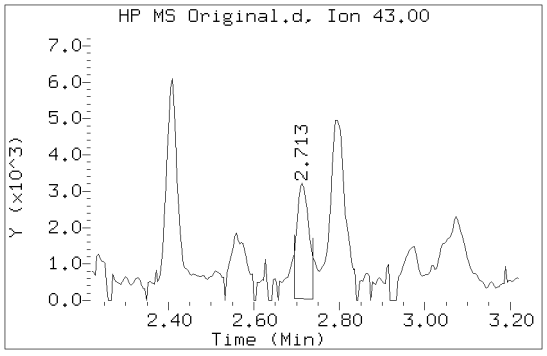


Methyl Acetate (79-20-9)

Reason Code:

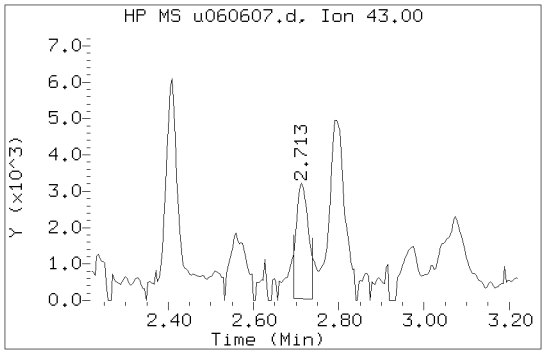
BEFORE

MASS
43
AREA
6421
HEIGHT
3170
08-Jun-2023
14:56
linh
pham



AFTER

MASS
43
AREA
6421
HEIGHT
3170
21-Jun-2023
13:47
linh
pha

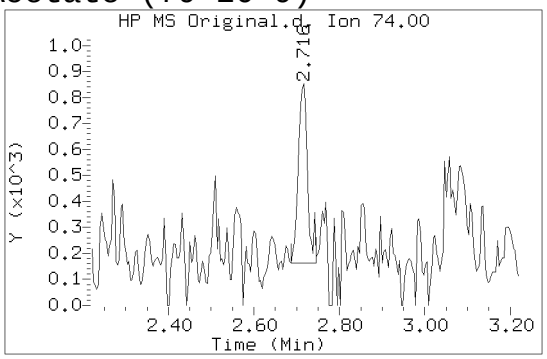


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060607.d
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

Methyl Acetate (79-20-9)

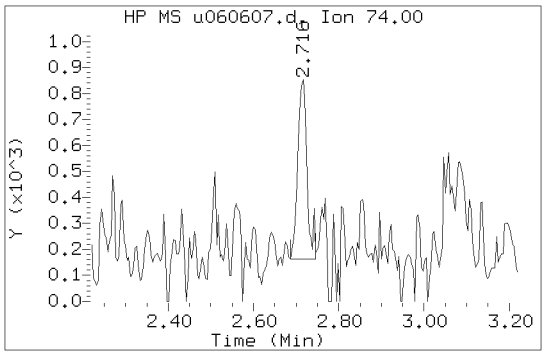
BEFORE

MASS
74
AREA
1042
HEIGHT
689
08-Jun-2023
14:56
linh
pham



AFTER

MASS
74
AREA
1042
HEIGHT
689
21-Jun-2023
13:47
linh
pha

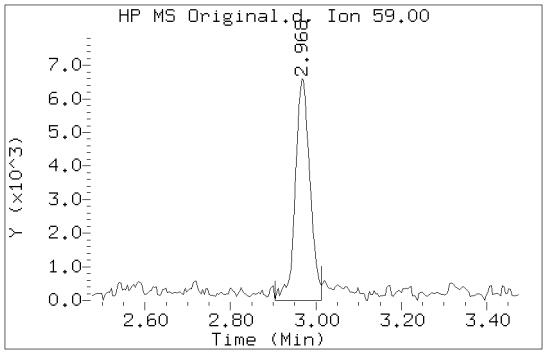


Reason Code:

Tert-Butyl alcohol (75-65-0)

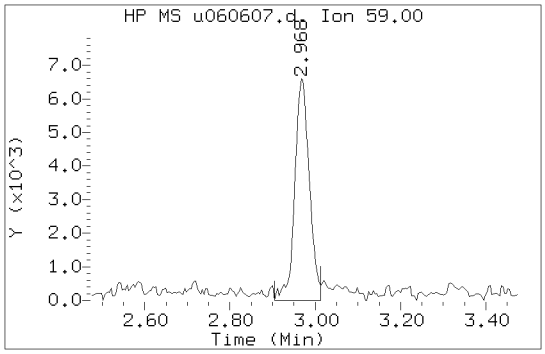
BEFORE

MASS
59
AREA
16016
HEIGHT
6600
08-Jun-2023
14:56
linh
pham



AFTER

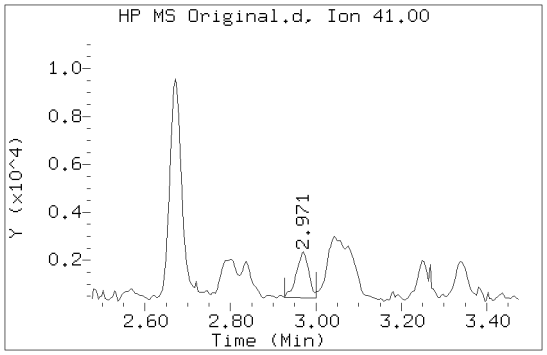
MASS
59
AREA
16016
HEIGHT
6600
21-Jun-2023
13:47
linh
pha



Reason Code:

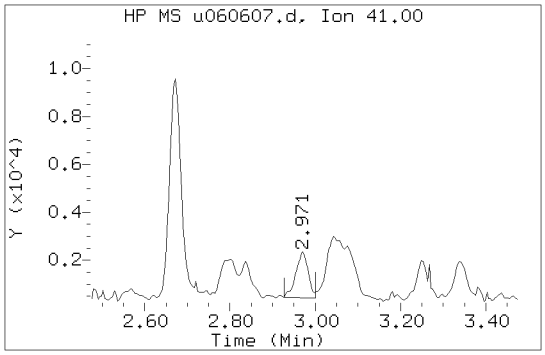
BEFORE

MASS
41
AREA
3907
HEIGHT
1899
08-Jun-2023
14:56
linh
pham



AFTER

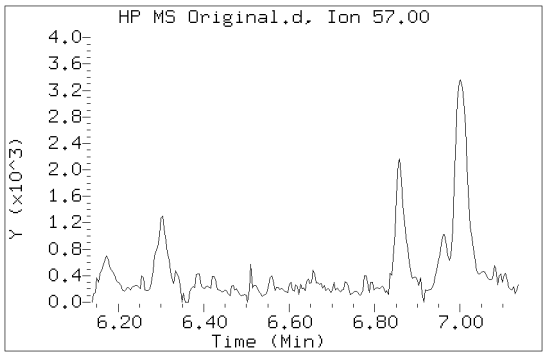
MASS
41
AREA
3907
HEIGHT
1899
21-Jun-2023
13:47
linh
pha



Epichlorohydrin (106-89-8)

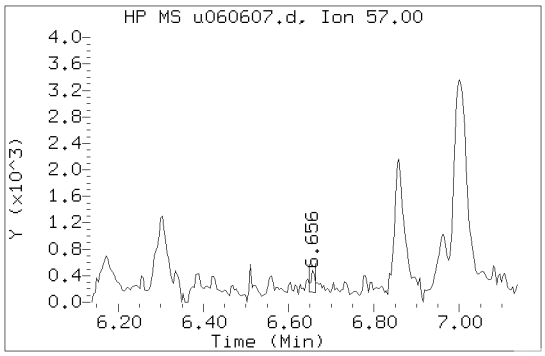
BEFORE

MASS
57
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
57
AREA
230
HEIGHT
333
21-Jun-2023
13:47
linh
pha



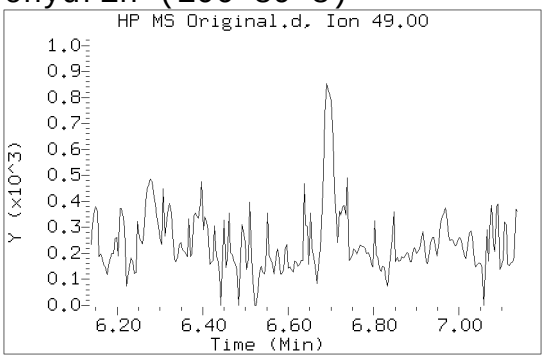
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060607.d
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

Epichlorohydrin (106-89-8)

Reason Code:

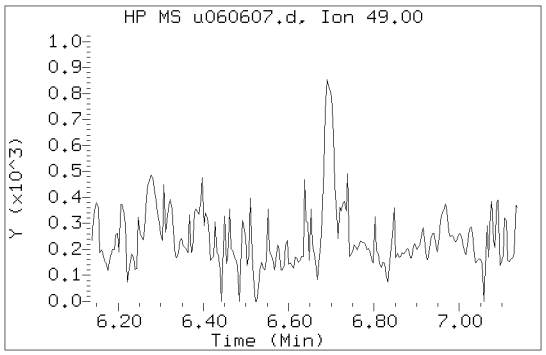
BEFORE

MASS
49
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
49
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

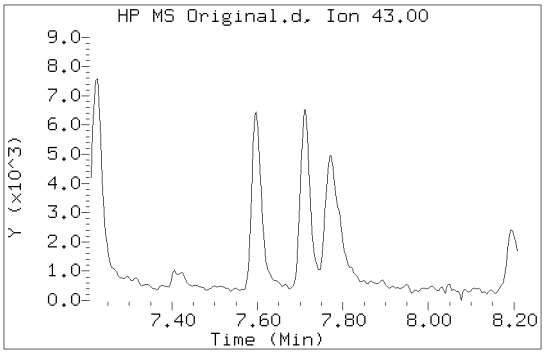


n-Butyl acetate (123-86-4)

Reason Code:

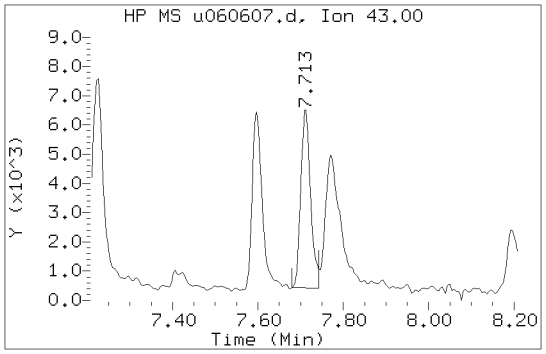
BEFORE

MASS
43
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



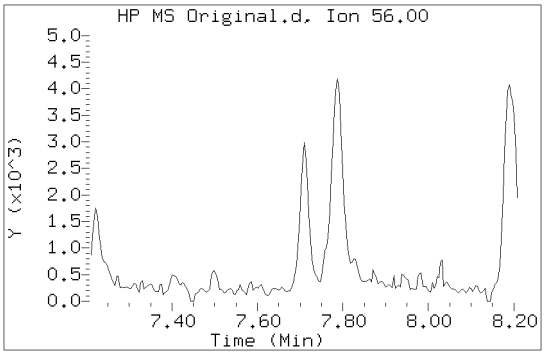
AFTER

MASS
43
AREA
10025
HEIGHT
6077
21-Jun-2023
13:47
linh
pha



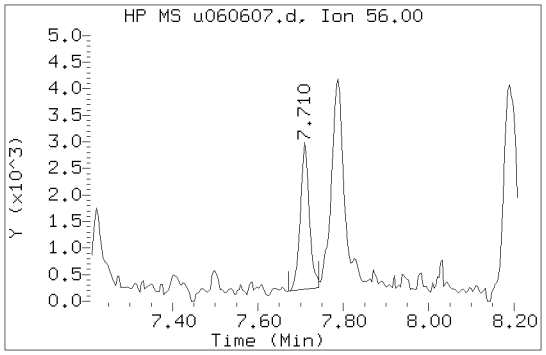
BEFORE

MASS
56
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



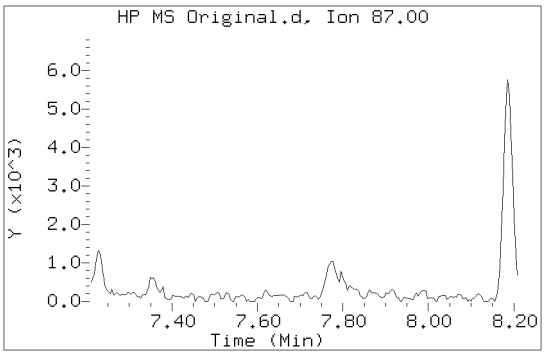
AFTER

MASS
56
AREA
4189
HEIGHT
2770
21-Jun-2023
13:47
linh
pha



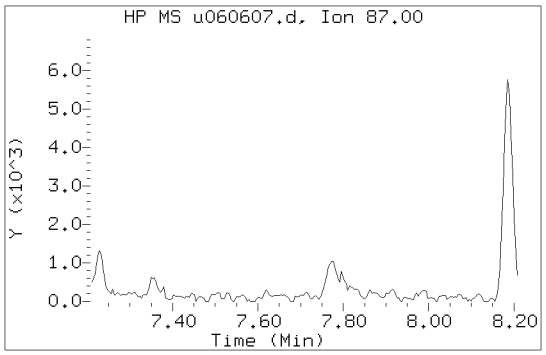
BEFORE

MASS
87
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
87
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

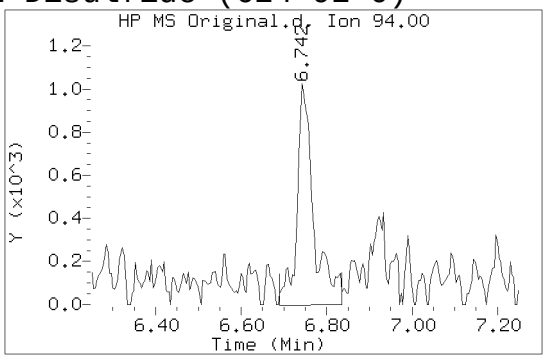


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060607.d
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

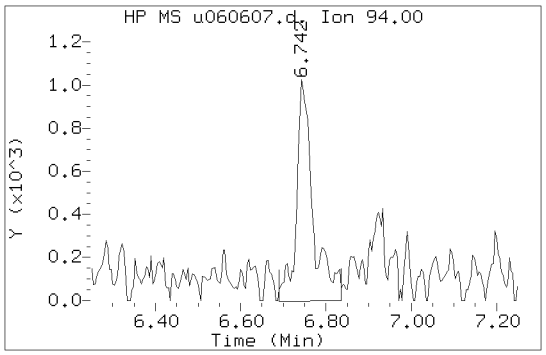
Dimethyl Disulfide (624-92-0)

Reason Code:

BEFORE
MASS
94
AREA
2841
HEIGHT
1027
08-Jun-2023
14:56
linh
pham



AFTER
MASS
94
AREA
2841
HEIGHT
1027
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
79
AREA
1040
HEIGHT
467
08-Jun-2023
14:56
linh
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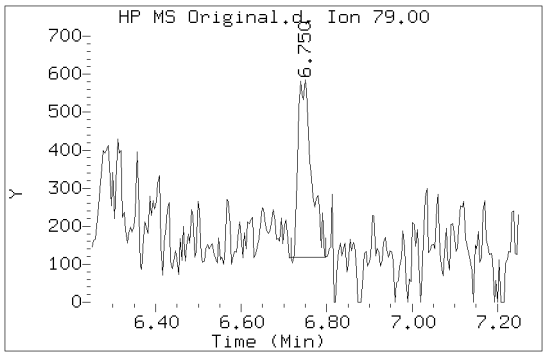

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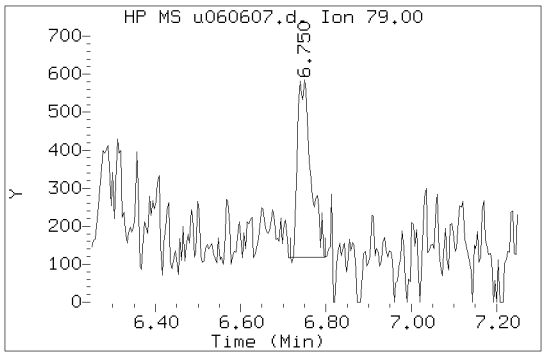

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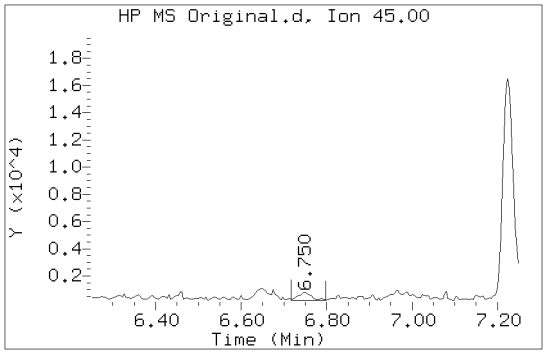

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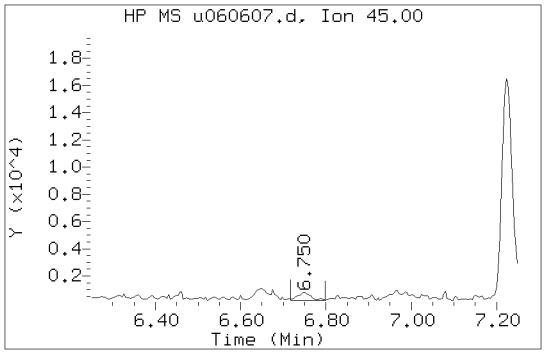

2-Ethylhexyl Acrylate (103-11-7)

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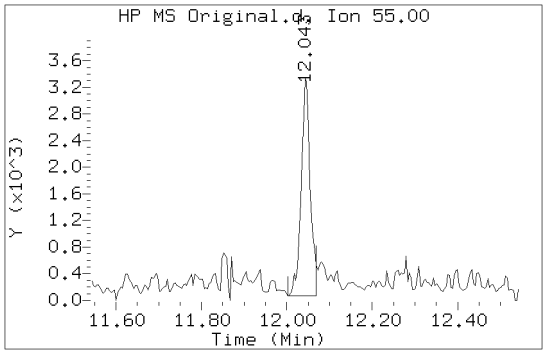

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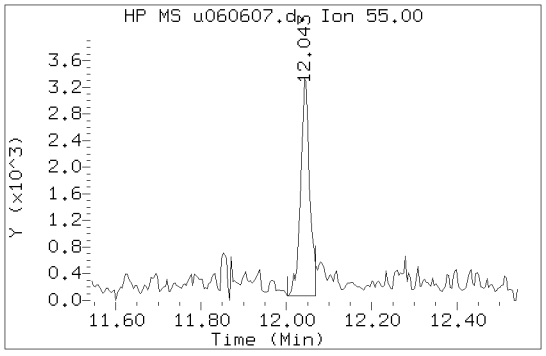

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InstruID : VOA9.i
LabSampID : VSTD001

2-Ethylhexyl Acrylate (103-11-7)

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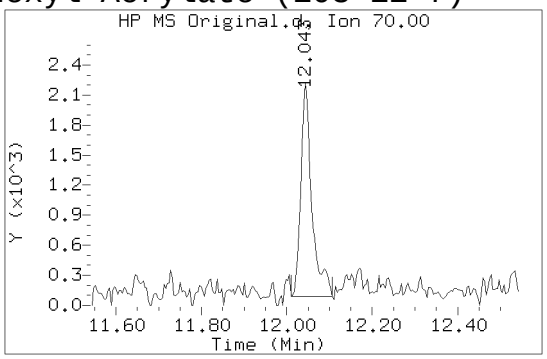

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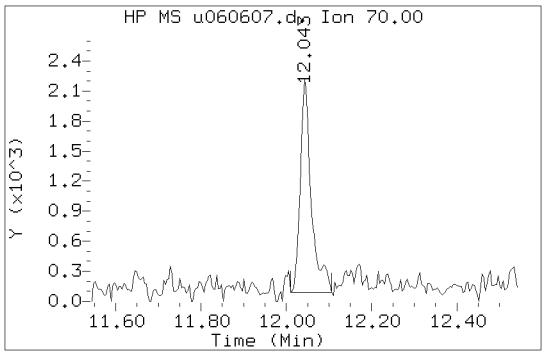

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Report Date: 13-Jun-2023 13:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060608.D
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Inj Date : 06-JUN-2023 13:50
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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)	654680	50.0000	
2	Dichlorodifluoromethane	85	1.171	1.171	(0.243)	8519	2.00000	1.48(a)
3	Chloromethane	50	1.303	1.303	(0.270)	24280	2.00000	1.17(a)
5	Vinyl Chloride	62	1.385	1.385	(0.288)	12806	2.00000	1.84(a)
6	Bromomethane	94	1.629	1.629	(0.338)	9237	2.00000	0.85(a)
7	Chloroethane	64	1.708	1.708	(0.354)	8750	2.00000	1.87(a)
8	Trichlorofluoromethane	101	1.902	1.902	(0.395)	13346	2.00000	1.67(a)
10	Acetone	43	2.420	2.420	(0.502)	18337	4.00000	2.91(a)
11	1,1-Dichloroethene	96	2.341	2.341	(0.486)	8887	2.00000	1.78(a)
15	Iodomethane	142	2.480	2.480	(0.515)	5244	4.00000	11.12(M)
17	Methylene Chloride	84	2.802	2.802	(0.582)	14226	2.00000	1.40(a)
18	Methyl tert-butyl ether	73	3.087	3.087	(0.641)	27827	2.00000	1.82(a)
19	Carbon Disulfide	76	2.528	2.528	(0.525)	47817	4.00000	3.59(a)
20	trans-1,2-Dichloroethene	96	3.068	3.068	(0.637)	10209	2.00000	1.88(a)
21	Vinyl Acetate	43	3.616	3.616	(0.750)	59931	4.00000	3.63(a)
22	1,1-Dichloroethane	63	3.522	3.522	(0.731)	20288	2.00000	1.97(a)
24	2-Butanone	43	4.279	4.279	(0.888)	11638	4.00000	3.89(a)
26	2,2-Dichloropropane	77	4.182	4.182	(0.868)	12294	2.00000	2.19(a)
27	cis-1,2-Dichloroethene	96	4.204	4.204	(0.872)	12235	2.00000	1.89(a)
28	Chloroform	83	4.579	4.579	(0.950)	20897	2.00000	1.95(a)

	29 Bromochloromethane	128	4.474	4.474 (0.928)	6927	2.00000	1.91(a)
$	30 Dibromofluoromethane	113	4.755	4.755 (0.987)	10602	2.00000	1.62(a)

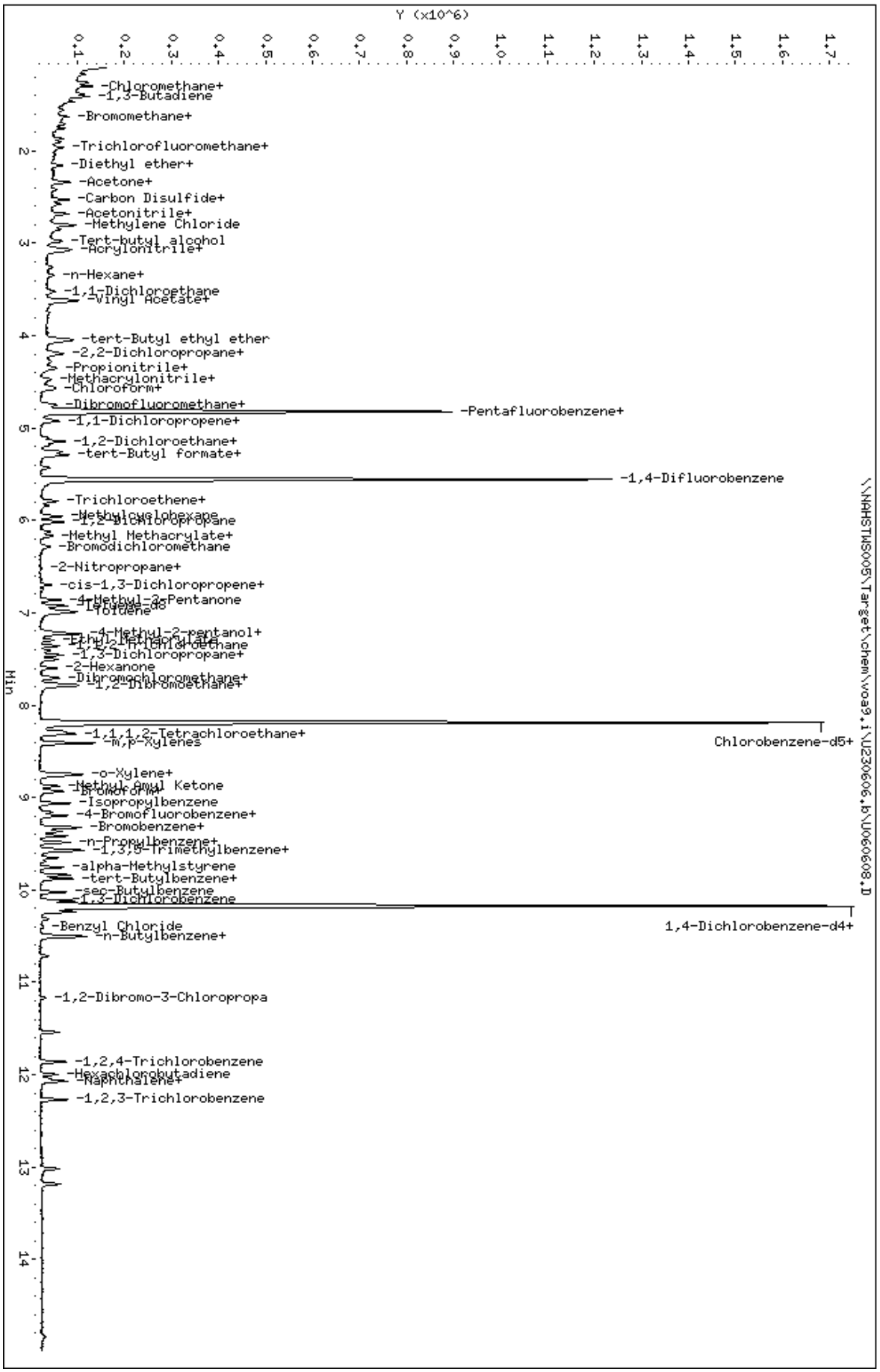
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	13786	2.00000	1.69(a)
	32 1,1-Dichloropropene	75	4.928	4.928	(0.887)	12050	2.00000	1.70(a)
	33 1,2-Dichloroethane	62	5.183	5.183	(0.933)	17690	2.00000	2.12(a)
	34 Carbon Tetrachloride	117	4.916	4.916	(0.885)	10294	2.00000	1.58(a)
$	35 1,2-Dichloroethane-d4	65	5.104	5.104	(1.059)	11855	2.00000	1.33(a)
*	36 1,4-Difluorobenzene	114	5.557	5.557	(1.000)	962707	50.0000	
	37 Benzene	78	5.141	5.141	(0.925)	46993	2.00000	2.02(a)
	38 Trichloroethene	130	5.794	5.794	(1.042)	12341	2.00000	1.83(a)
	39 Bromodichloromethane	83	6.281	6.281	(1.130)	12700	2.00000	1.75(a)
	42 1,2-Dichloropropane	63	6.015	6.015	(1.082)	12117	2.00000	1.95(a)
	44 Dibromomethane	93	6.123	6.123	(1.102)	7782	2.00000	1.96(a)
	45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	30250	4.00000	4.57(a)
	46 cis-1,3-Dichloropropene	75	6.697	6.697	(1.205)	12842	2.00000	3.18(a)
*	47 Chlorobenzene-d5	117	8.189	8.189	(1.000)	907233	50.0000	
$	48 Toluene-d8	98	6.926	6.926	(0.846)	36710	2.00000	1.78(a)
	50 Toluene	91	6.986	6.986	(0.853)	45011	2.00000	1.82(a)
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.295)	12660	2.00000	3.51(aM)
	52 2-Hexanone	43	7.597	7.597	(0.928)	23033	4.00000	5.00
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.898)	10667	2.00000	2.08(a)
	54 1,3-Dichloropropane	76	7.503	7.503	(0.916)	21098	2.00000	2.01(a)
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	10276	2.00000	1.69(a)
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	11347	2.00000	1.89(a)
	57 1,2-Dibromoethane	107	7.788	7.788	(0.951)	12823	2.00000	2.03(a)
	58 1-Chlorohexane	55	8.189	8.189	(1.473)	9554	2.00000	1.93(aM)
	59 Chlorobenzene	112	8.211	8.211	(1.003)	36163	2.00000	2.05(a)
	60 1,1,1,2-Tetrachloroethane	131	8.286	8.286	(1.012)	11696	2.00000	1.93(a)
	61 Ethylbenzene	106	8.309	8.309	(1.015)	13970	2.00000	1.70(a)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	33831	4.00000	3.49(aM)
	63 o-Xylene	106	8.748	8.748	(1.068)	16529	2.00000	1.73(a)
	64 Styrene	104	8.766	8.766	(1.070)	26887	2.00000	1.77(a)
	66 Bromoform	173	8.920	8.920	(1.089)	7583	2.00000	1.84(a)
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	39716	2.00000	1.73(a)
	68 1,1,2,2-Tetrachloroethane	83	9.332	9.332	(0.917)	21290	2.00000	2.41(aM)
$	69 4-Bromofluorobenzene	95	9.197	9.197	(1.123)	16728	2.00000	1.19(a)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	468121	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	17163	2.00000	2.21(aM)
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	42411	2.00000	1.72(a)
	74 Bromobenzene	156	9.317	9.317	(0.916)	17200	2.00000	2.17(a)
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	31762	2.00000	1.88(a)
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	34904	2.00000	2.02(a)
	77 4-Chlorotoluene	91	9.580	9.580	(0.942)	39709	2.00000	2.07(a)
	78 tert-Butylbenzene	119	9.838	9.838	(0.967)	29666	2.00000	1.79(a)
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	37613	2.00000	2.13(a)
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	35689	2.00000	1.70(a)
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	31988	2.00000	1.81(a)
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	29086	2.00000	2.16(a)
	84 1,4-Dichlorobenzene	146	10.195	10.195	(1.002)	31674	2.00000	2.21(aM)
	87 n-Butylbenzene	91	10.494	10.494	(1.032)	27289	2.00000	1.81(a)
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	30371	2.00000	2.25(a)
	89 1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	2819	2.00000	2.19(a)
	90 1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	19713	2.00000	2.13(a)
	93 1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	20459	2.00000	2.26(a)

M	94	1,2-Dichloroethylene (total)	96			22444	4.00000	(a)
	135	1,4-Dioxane	88	6.176	6.176 (1.282)	5764	40.0000	44.34(aM)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
141 Cyclohexane	56	4.785	4.785	(0.993)	8877	2.00000	1.31(aMH)
138 Freon TF	101	2.341	2.341	(0.486)	6997	2.00000	1.59(aM)
140 1,3-Butadiene	54	1.408	1.408	(0.292)	11039	2.00000	1.78(a)
147 Methylcyclohexane	55	5.955	5.955	(1.071)	22206	2.00000	1.66(a)
146 Methyl Acetate	43	2.723	2.723	(0.565)	12288	2.00000	2.22(a)
148 Tert-Butyl alcohol	59	2.978	2.978	(0.618)	34487	40.0000	52.33
149 Isopropyl Alcohol	45	2.573	2.573	(0.534)	22047	40.0000	51.51(T)
72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.145)	1936	2.00000	1.85(M)
12 Isobutyl Alcohol	43	5.295	5.295	(1.099)	31429	40.0000	36.94(M)
13 Acetonitrile	39	2.678	2.678	(0.556)	13701	20.0000	19.32
40 Methyl Methacrylate	41	6.161	6.161	(1.278)	9826	2.00000	1.74
4 Propionitrile	54	4.350	4.350	(0.903)	17197	20.0000	18.17(a)
136 n-Hexane	57	3.346	3.346	(0.694)	7179	2.00000	1.45(a)
131 Methyl Acrylate	55	4.377	4.377	(0.908)	11843	2.00000	1.71(aM)
200 Dimethyl Disulfide	94	6.746	6.746	(0.824)	4598	2.00000	5.17(M)
49 Ethyl Methacrylate	69	7.297	7.297	(1.313)	13205	2.00000	1.56(a)
166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	34972	2.00000	1.94(a)
167 Ethanol	45	2.090	2.090	(0.434)	4910	40.0000	38.64
164 Dicyclopentadiene	66	10.202	10.202	(1.003)	43120	2.00000	1.88(a)
145 alpha-Methylstyrene	118	9.756	9.756	(0.959)	14955	2.00000	5.11
156 Diisopropyl ether	45	3.627	3.627	(0.753)	35538	2.00000	1.94(Ta)
151 4-Methyl-2-pentanol	45	7.226	7.226	(1.300)	47340	40.0000	33.06
150 Allyl alcohol	57	3.346	3.346	(0.694)	7179	40.0000	29.86
86 Benzyl Chloride	91	10.315	10.315	(1.260)	11203	2.00000	5.38
162 Butyl acrylate	55	8.740	8.740	(1.067)	18210	2.00000	1.69(a)
139 Diethyl ether	59	2.154	2.154	(0.447)	8174	2.00000	1.84(a)
203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	8201	2.00000	3.58(a)
134 Cyclohexanone	55	9.156	9.156	(0.900)	11087	40.0000	38.20(a)
130 Ethyl Acetate	43	4.279	4.279	(0.888)	11855	2.00000	2.02(aM)
189 n-Butyl acetate	43	7.713	7.713	(0.942)	21837	2.00000	2.11(aM)
182 Epichlorohydrin	57	6.637	6.637	(1.194)	854	8.00000	18.93(M)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.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Column phase: DB624
Instrument: VOA9.i
Operator: PC
Column diameter: 0.18
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Y (x10^6)
Min
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-1,3-Butadiene
-Bromomethane+
-Trichlorofluoromethane+
-Diethyl ether+
-Acetone+
-Carbon Disulfide+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
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-n-Hexane+
-1,1-Dichloroethane
-Vinyl Acetate+
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-Bromobenzene+
-n-Propylbenzene+
-1,3,5-Trimethylbenzene+
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Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

Acrolein (107-02-8)

Reason Code:

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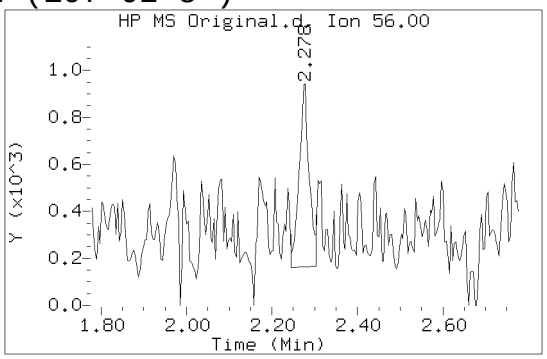

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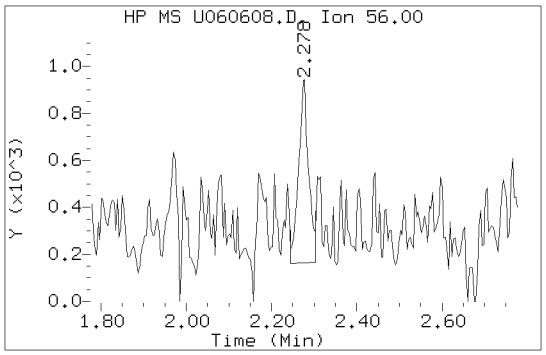

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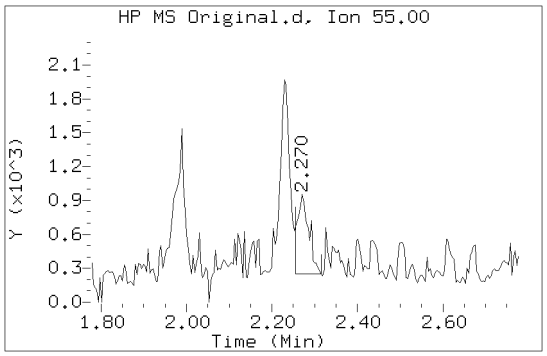

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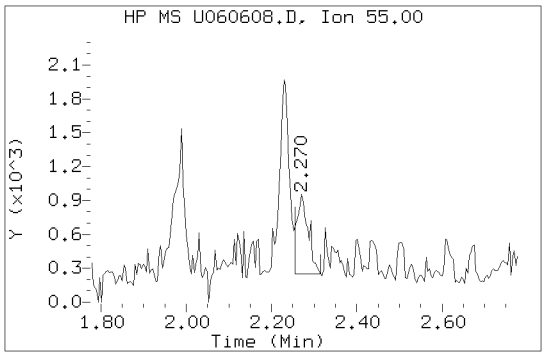
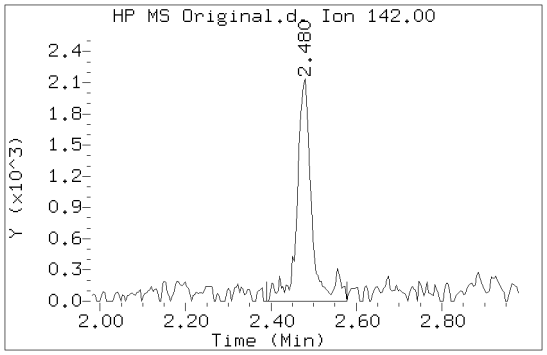


Iodomethane (74-88-4)

Reason Code:

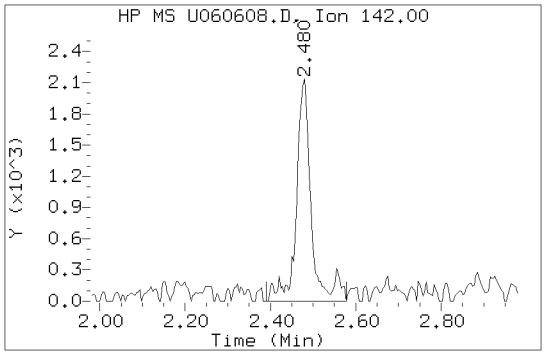
BEFORE

MASS
142
AREA
5244
HEIGHT
2136
08-Jun-2023
14:56
linh
pham



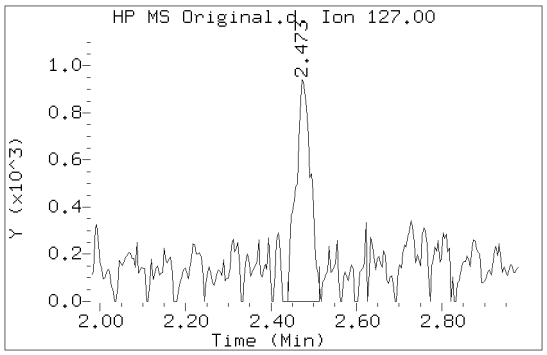
AFTER

MASS
142
AREA
5244
HEIGHT
2136
13-Jun-2023
13:00
linh
pham



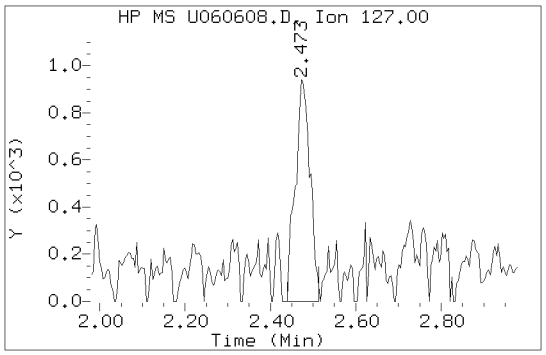
BEFORE

MASS
127
AREA
2301
HEIGHT
941
08-Jun-2023
14:56
linh
pham



AFTER

MASS
127
AREA
2301
HEIGHT
941
13-Jun-2023
13:00
linh
pham



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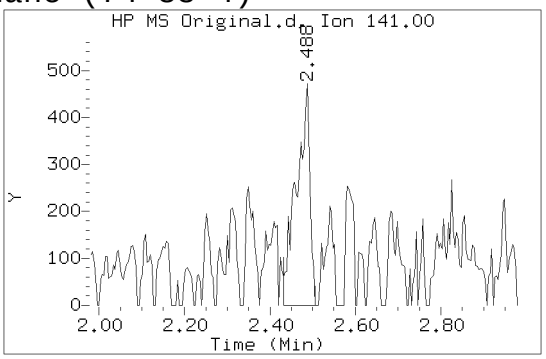
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

Iodomethane (74-88-4)

Reason Code:

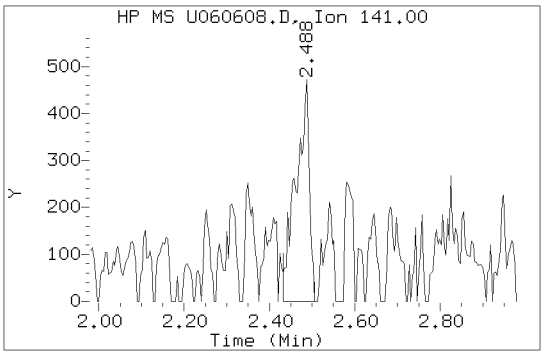
BEFORE

MASS
141
AREA
1044
HEIGHT
472
08-Jun-2023
14:56
linh
pham



AFTER

MASS
141
AREA
1044
HEIGHT
472
13-Jun-2023
13:00
linh
pham

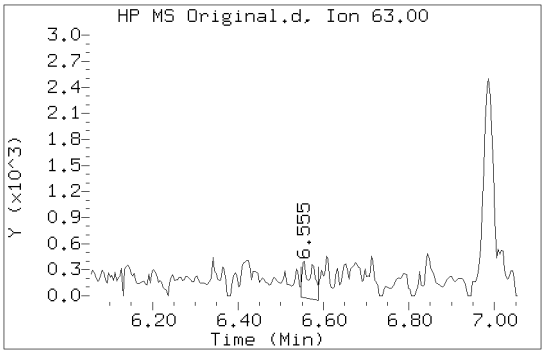


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

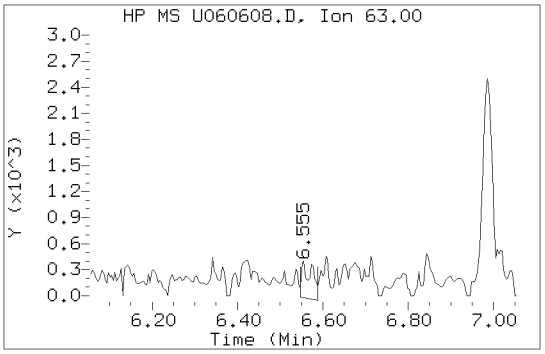
BEFORE

MASS
63
AREA
728
HEIGHT
422
08-Jun-2023
14:56
linh
pham



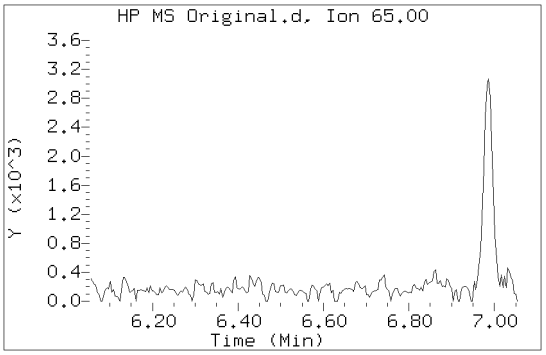
AFTER

MASS
63
AREA
728
HEIGHT
422
13-Jun-2023
13:00
linh
pham



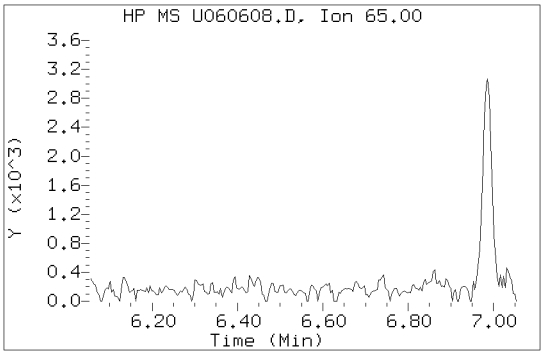
BEFORE

MASS
65
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



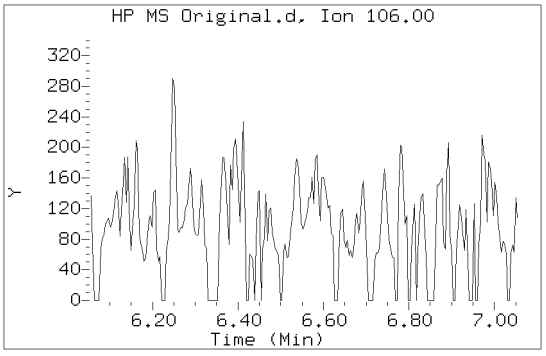
AFTER

MASS
65
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham



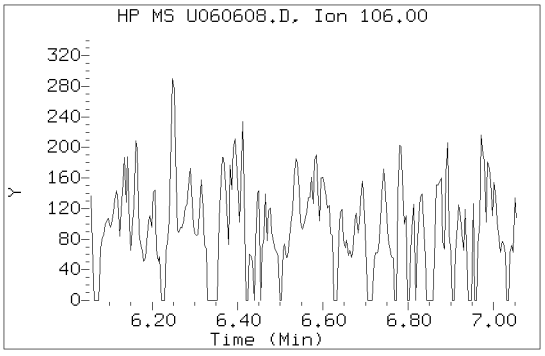
BEFORE

MASS
106
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
106
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham



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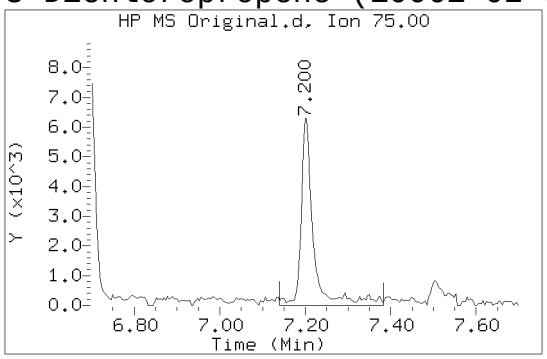
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

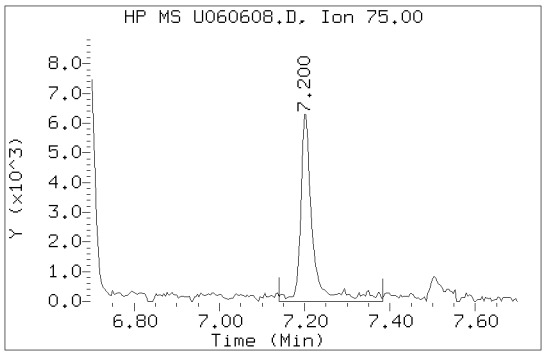
BEFORE

MASS
75
AREA
12660
HEIGHT
6296
08-Jun-2023
14:56
linh
pham



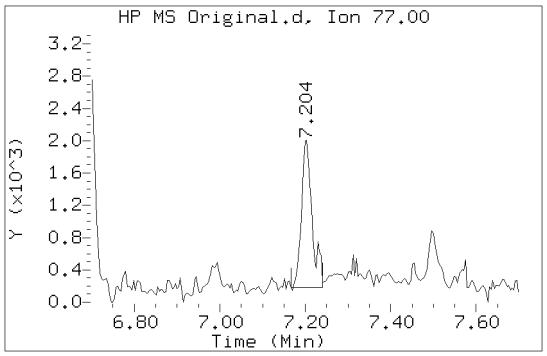
AFTER

MASS
75
AREA
12660
HEIGHT
6296
13-Jun-2023
13:00
linh
pham



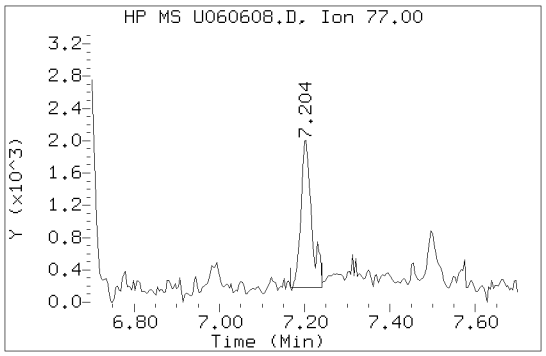
BEFORE

MASS
77
AREA
3204
HEIGHT
1827
08-Jun-2023
14:56
linh
pham



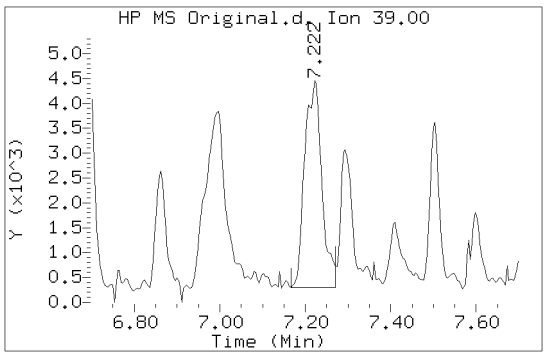
AFTER

MASS
77
AREA
3204
HEIGHT
1827
13-Jun-2023
13:00
linh
pham



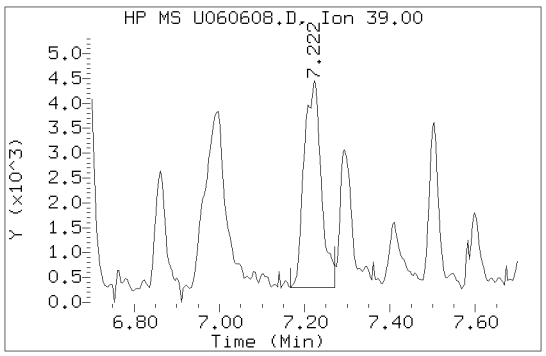
BEFORE

MASS
39
AREA
11661
HEIGHT
4160
08-Jun-2023
14:56
linh
pham



AFTER

MASS
39
AREA
11661
HEIGHT
4160
13-Jun-2023
13:00
linh
pham

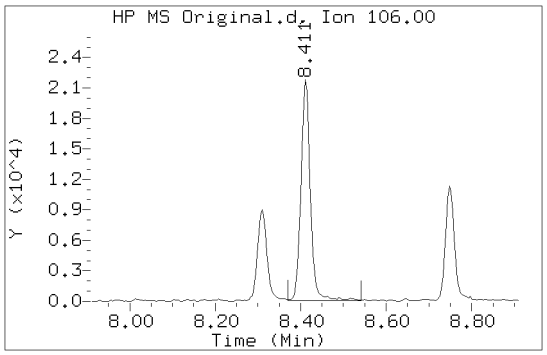


m,p-Xylenes ()

Reason Code:

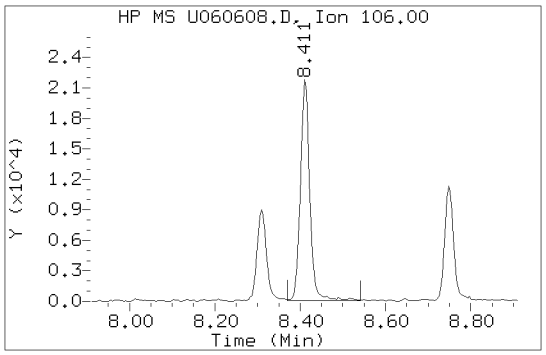
BEFORE

MASS
106
AREA
33831
HEIGHT
21724
08-Jun-2023
14:56
linh
pham



AFTER

MASS
106
AREA
33831
HEIGHT
21724
13-Jun-2023
13:00
linh
pham



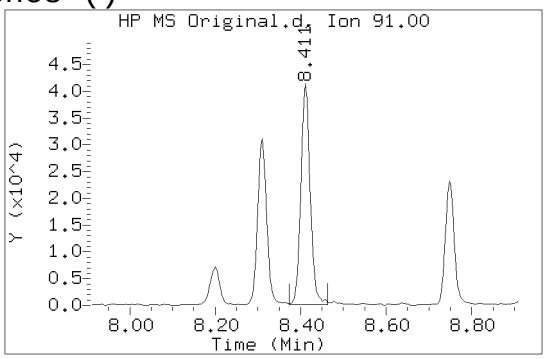
Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060608.D
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

m,p-Xylenes ()

Reason Code:

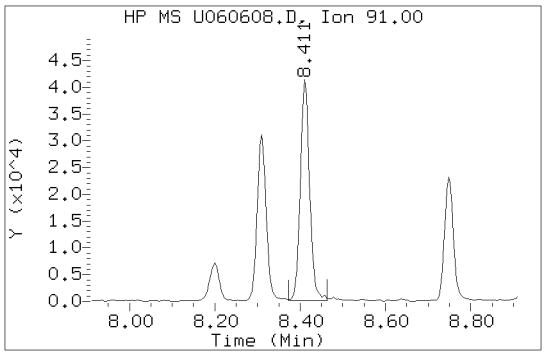
BEFORE

MASS
91
AREA
63741
HEIGHT
41264
08-Jun-2023
14:56
linh
pham



AFTER

MASS
91
AREA
63741
HEIGHT
41264
13-Jun-2023
13:00
linh
pham

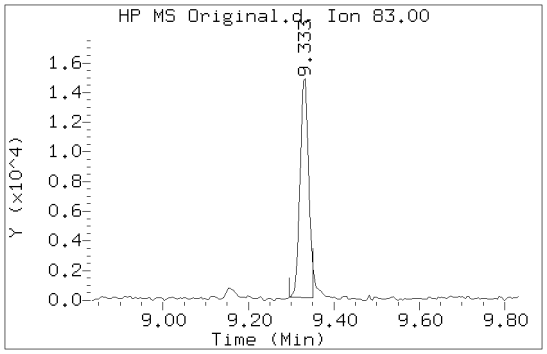


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

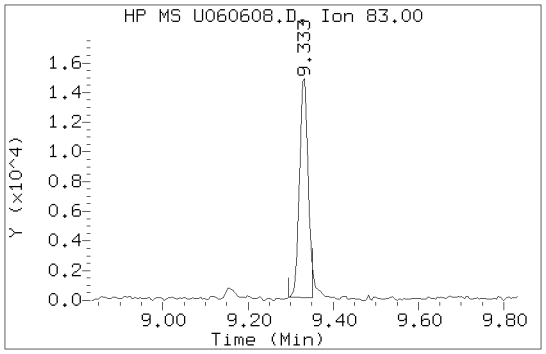
BEFORE

MASS
83
AREA
21290
HEIGHT
14748
08-Jun-2023
14:56
linh
pham



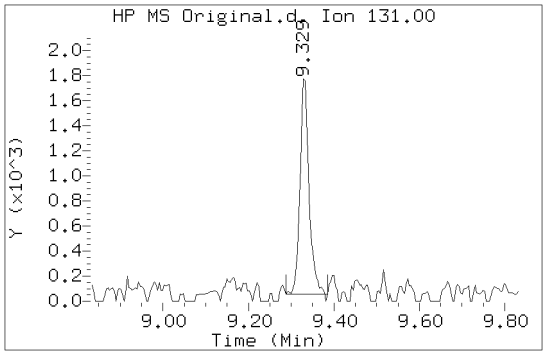
AFTER

MASS
83
AREA
21290
HEIGHT
14748
13-Jun-2023
13:00
linh
pham



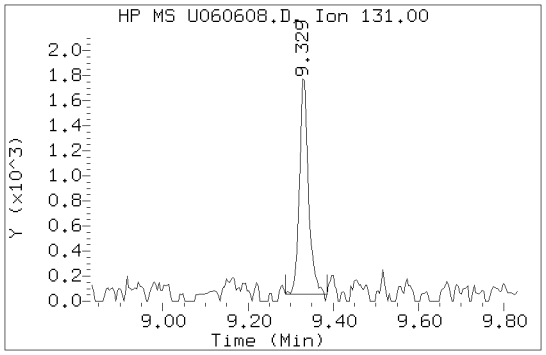
BEFORE

MASS
131
AREA
2587
HEIGHT
1718
08-Jun-2023
14:56
linh
pham



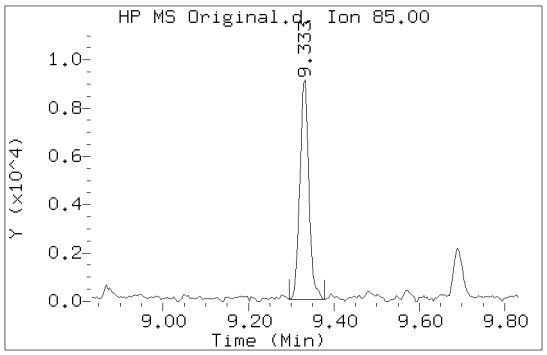
AFTER

MASS
131
AREA
2587
HEIGHT
1718
13-Jun-2023
13:00
linh
pham



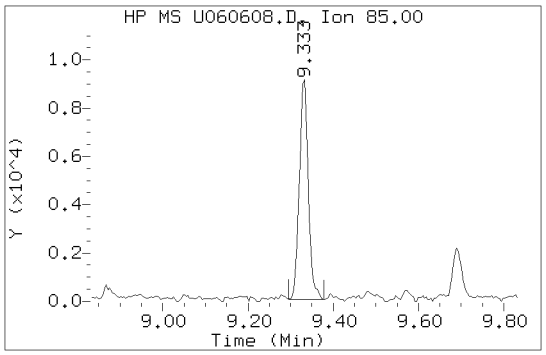
BEFORE

MASS
85
AREA
13620
HEIGHT
9094
08-Jun-2023
14:56
linh
pham



AFTER

MASS
85
AREA
13620
HEIGHT
9094
13-Jun-2023
13:00
linh
pham



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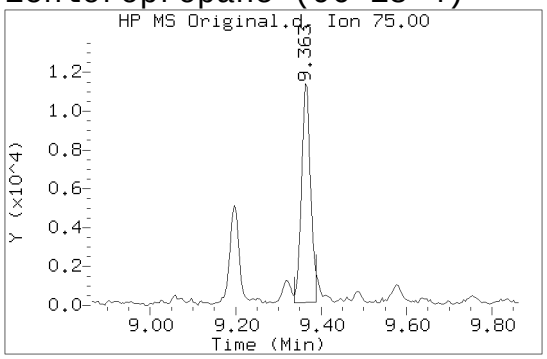
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

1,2,3-Trichloropropane (96-18-4)

Reason Code:

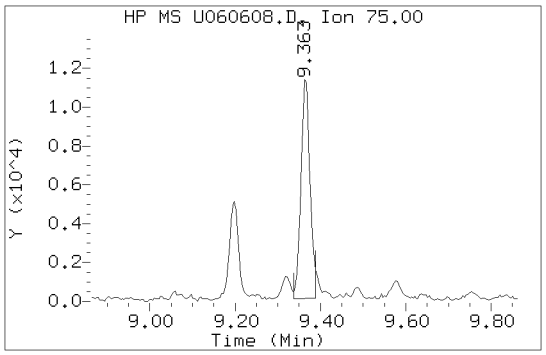
BEFORE

MASS
75
AREA
17163
HEIGHT
11263
08-Jun-2023
14:56
linh
pham



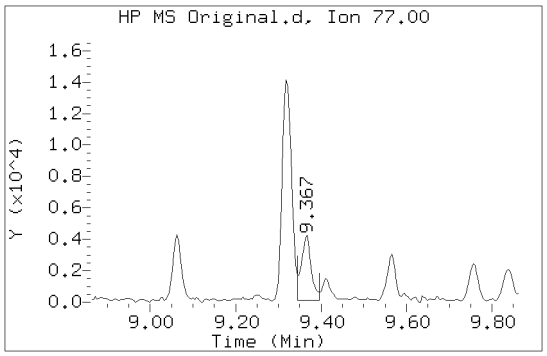
AFTER

MASS
75
AREA
17163
HEIGHT
11263
13-Jun-2023
13:00
linh
pham



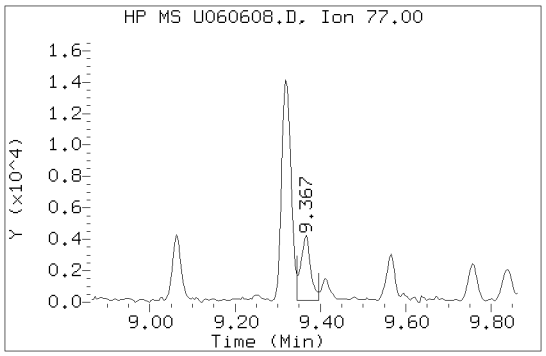
BEFORE

MASS
77
AREA
7018
HEIGHT
4115
08-Jun-2023
14:56
linh
pham



AFTER

MASS
77
AREA
7018
HEIGHT
4115
13-Jun-2023
13:00
linh
pham

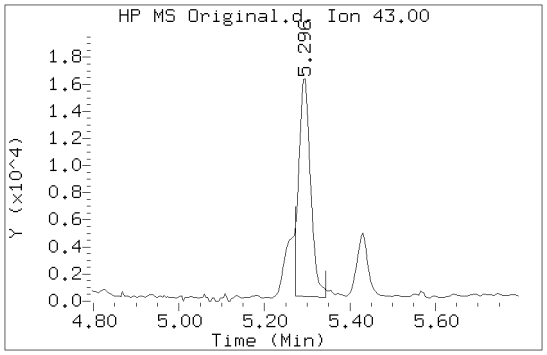


Isobutyl Alcohol (78-83-1)

Reason Code:

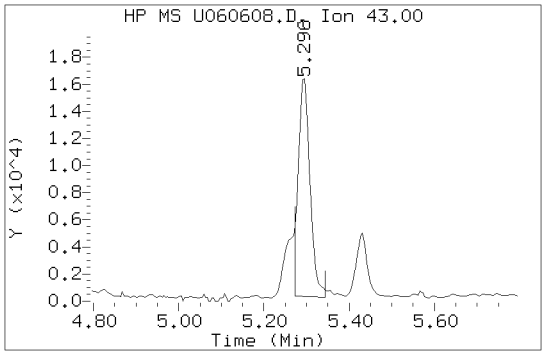
BEFORE

MASS
43
AREA
31429
HEIGHT
16036
08-Jun-2023
14:56
linh
pham



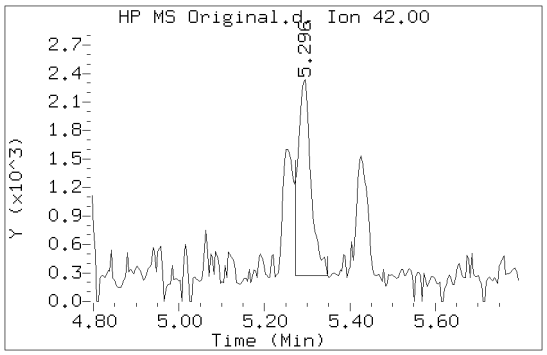
AFTER

MASS
43
AREA
31429
HEIGHT
16036
13-Jun-2023
13:00
linh
pham



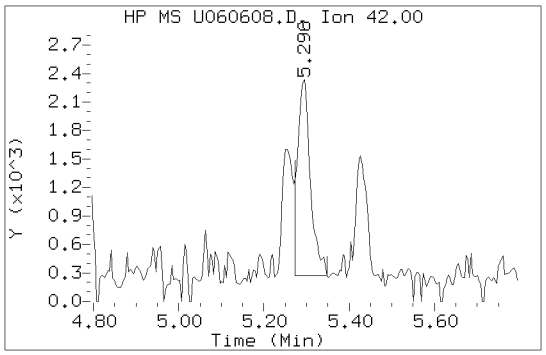
BEFORE

MASS
42
AREA
4414
HEIGHT
2065
08-Jun-2023
14:56
linh
pham



AFTER

MASS
42
AREA
4414
HEIGHT
2065
13-Jun-2023
13:00
linh
pham



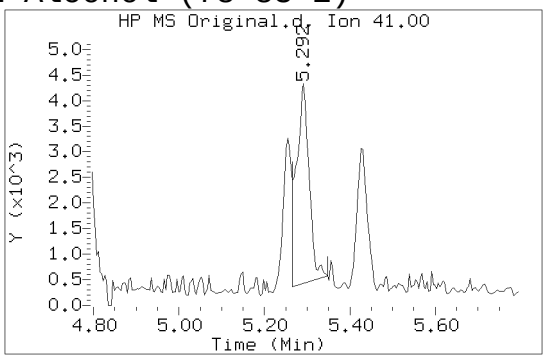
Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060608.D
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

Isobutyl Alcohol (78-83-1)

Reason Code:

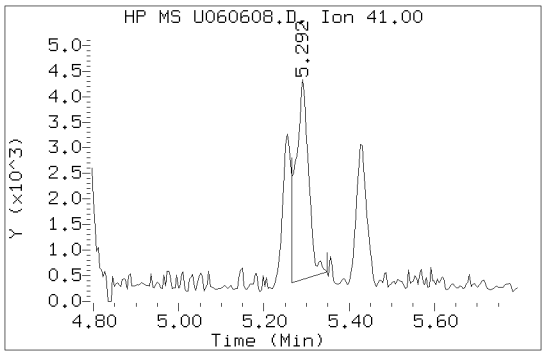
BEFORE

MASS
41
AREA
8253
HEIGHT
3899
08-Jun-2023
14:56
linh
pham



AFTER

MASS
41
AREA
8253
HEIGHT
3899
13-Jun-2023
13:00
linh
pham

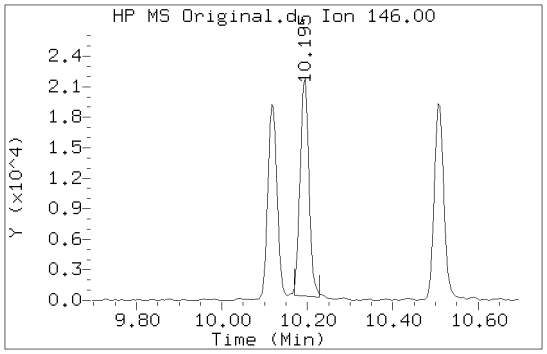


1,4-Dichlorobenzene (106-46-7)

Reason Code:

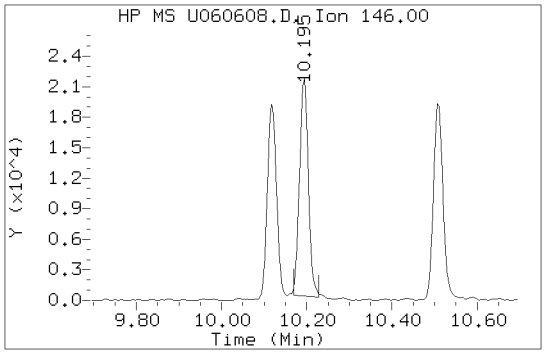
BEFORE

MASS
146
AREA
31674
HEIGHT
21370
08-Jun-2023
14:56
linh
pham



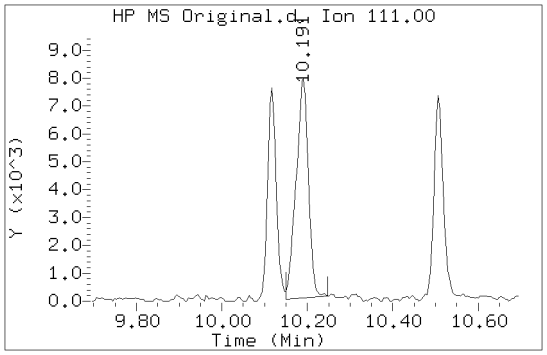
AFTER

MASS
146
AREA
31674
HEIGHT
21370
13-Jun-2023
13:00
linh
pham



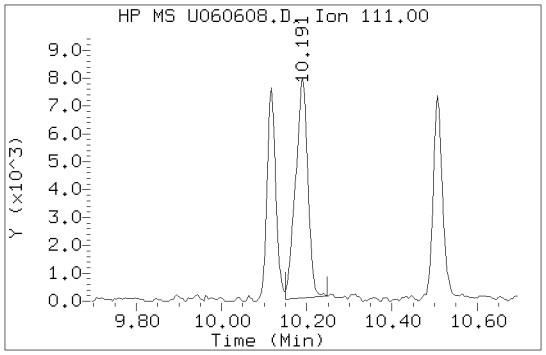
BEFORE

MASS
111
AREA
16075
HEIGHT
7847
08-Jun-2023
14:56
linh
pham



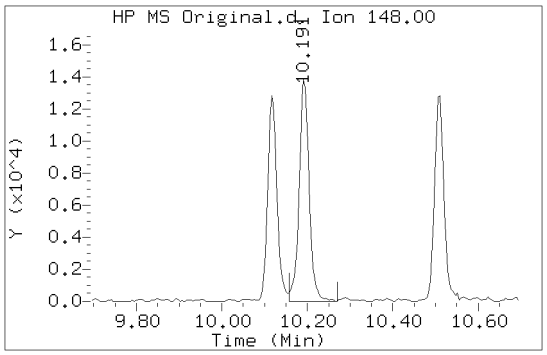
AFTER

MASS
111
AREA
16075
HEIGHT
7847
13-Jun-2023
13:00
linh
pham



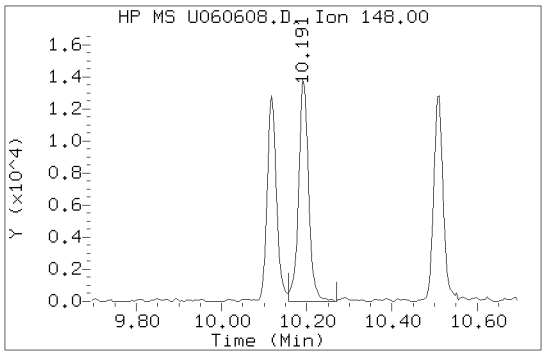
BEFORE

MASS
148
AREA
23144
HEIGHT
13826
08-Jun-2023
14:56
linh
pham



AFTER

MASS
148
AREA
23144
HEIGHT
13826
13-Jun-2023
13:00
linh
pham



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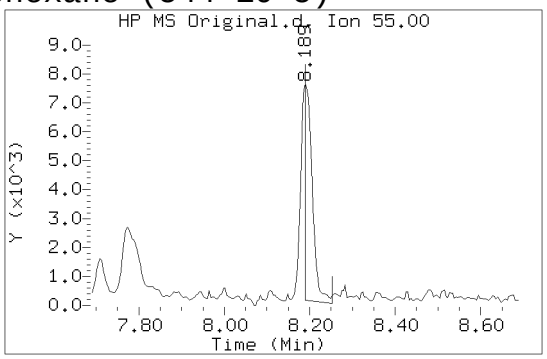
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

1-Chlorohexane (544-10-5)

Reason Code:

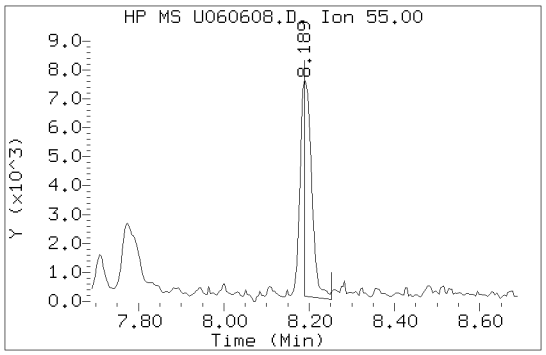
BEFORE

MASS
55
AREA
9554
HEIGHT
7479
08-Jun-2023
14:56
linh
pham



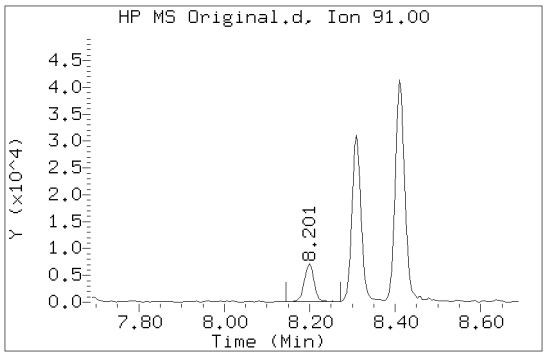
AFTER

MASS
55
AREA
9554
HEIGHT
7479
13-Jun-2023
13:00
linh
pham



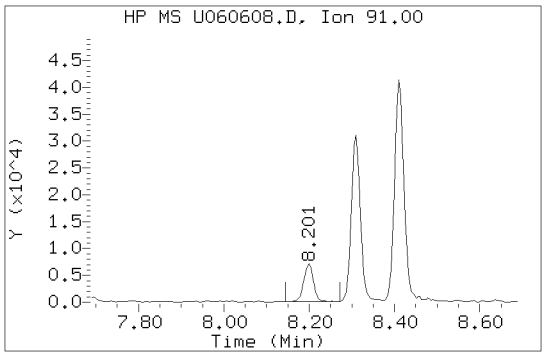
BEFORE

MASS
91
AREA
11373
HEIGHT
7051
08-Jun-2023
14:56
linh
pham



AFTER

MASS
91
AREA
11373
HEIGHT
7051
13-Jun-2023
13:00
linh
pham

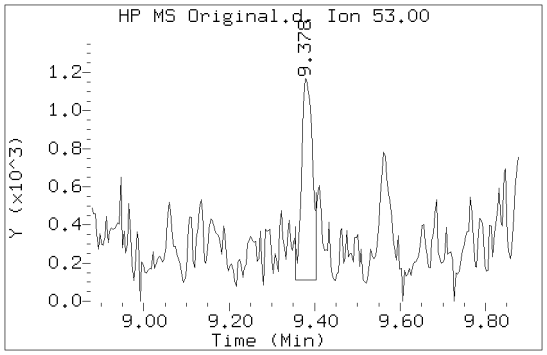


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

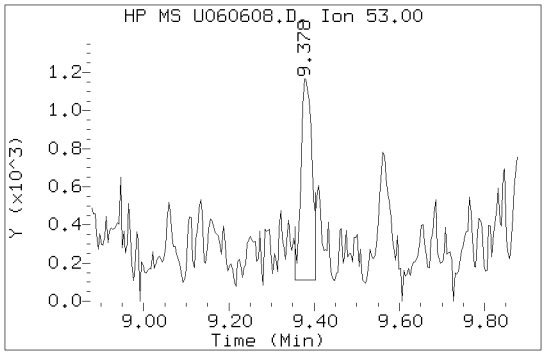
BEFORE

MASS
53
AREA
1936
HEIGHT
1056
08-Jun-2023
14:56
linh
pham



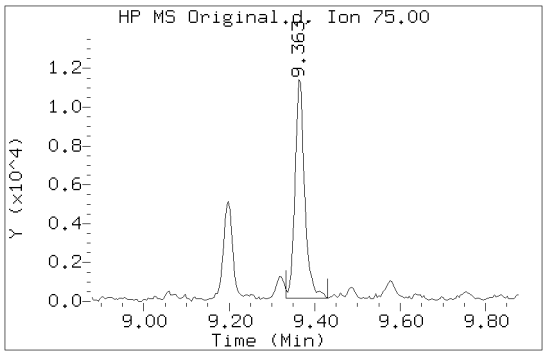
AFTER

MASS
53
AREA
1936
HEIGHT
1056
13-Jun-2023
13:00
linh
pham



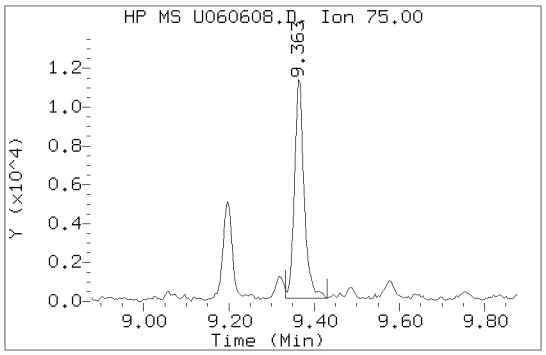
BEFORE

MASS
75
AREA
18151
HEIGHT
11253
08-Jun-2023
14:56
linh
pham



AFTER

MASS
75
AREA
18151
HEIGHT
11253
13-Jun-2023
13:00
linh
pham



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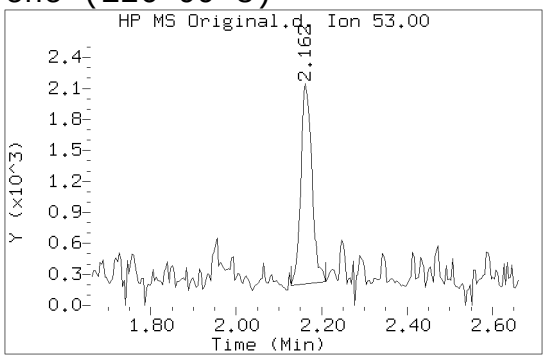
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

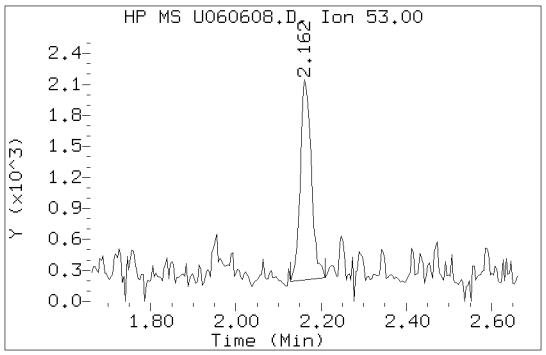
Chloroprene (126-99-8)

Reason Code:

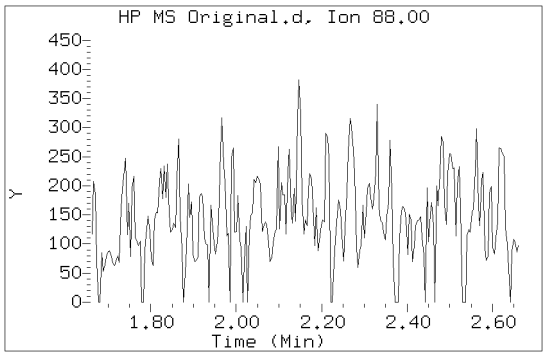
BEFORE
MASS
53
AREA
3552
HEIGHT
1939
08-Jun-2023
14:56
linh
pham



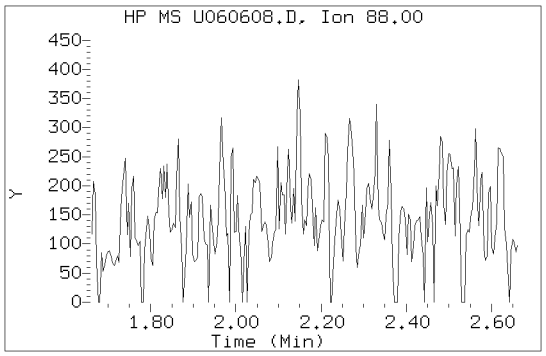
AFTER
MASS
53
AREA
3552
HEIGHT
1939
13-Jun-2023
13:00
linh
pham



BEFORE
MASS
88
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



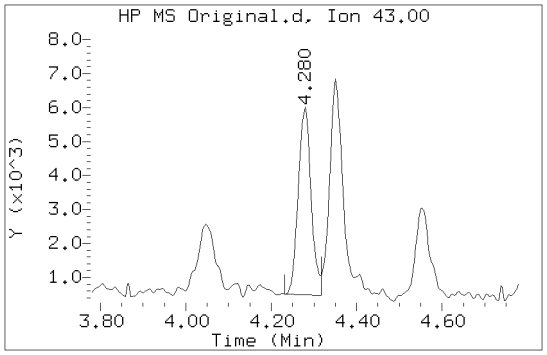
AFTER
MASS
88
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham



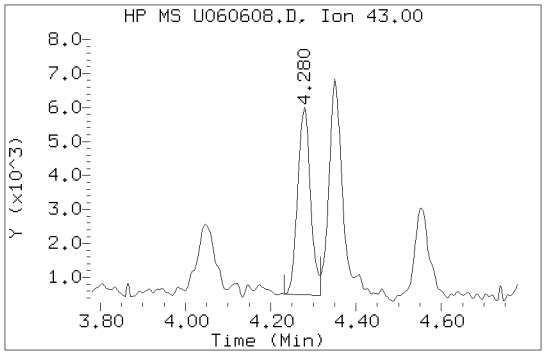
Ethyl Acetate (141-78-6)

Reason Code:

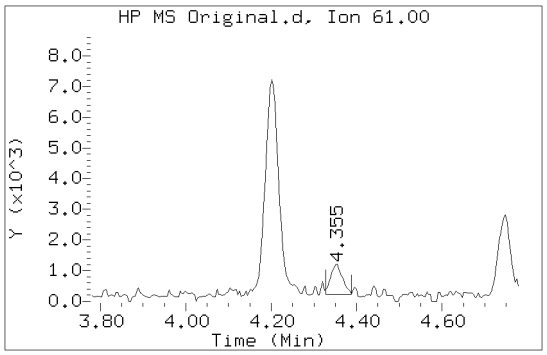
BEFORE
MASS
43
AREA
11855
HEIGHT
5517
08-Jun-2023
14:56
linh
pham



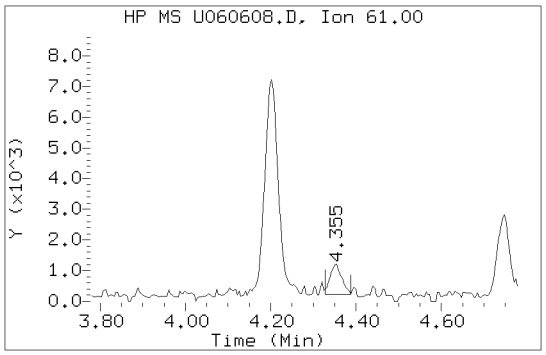
AFTER
MASS
43
AREA
11855
HEIGHT
5517
13-Jun-2023
13:00
linh
pham



BEFORE
MASS
61
AREA
1871
HEIGHT
977
08-Jun-2023
14:56
linh
pham



AFTER
MASS
61
AREA
1871
HEIGHT
977
13-Jun-2023
13:00
linh
pham



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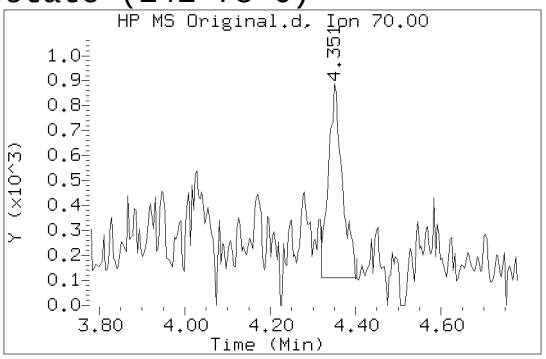
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

Ethyl Acetate (141-78-6)

Reason Code:

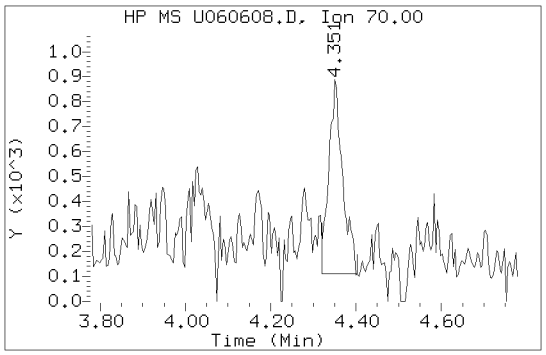
BEFORE

MASS
70
AREA
1750
HEIGHT
777
08-Jun-2023
14:56
linh
pham



AFTER

MASS
70
AREA
1750
HEIGHT
777
13-Jun-2023
13:00
linh
pham

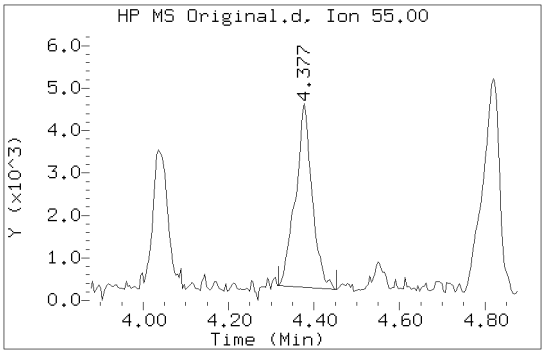


Methyl Acrylate (96-33-3)

Reason Code:

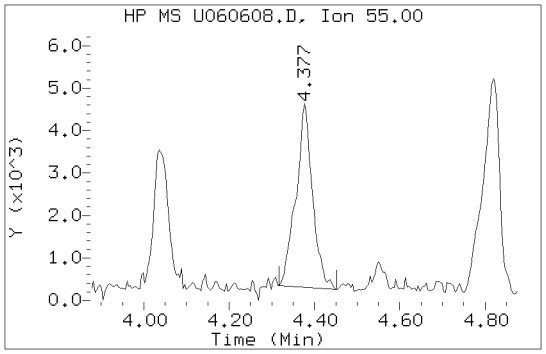
BEFORE

MASS
55
AREA
11843
HEIGHT
4323
08-Jun-2023
14:56
linh
pham



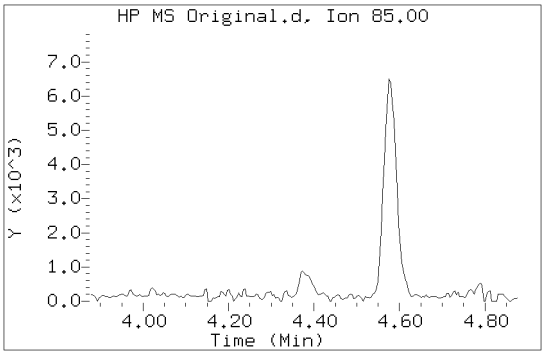
AFTER

MASS
55
AREA
11843
HEIGHT
4323
13-Jun-2023
13:00
linh
pham



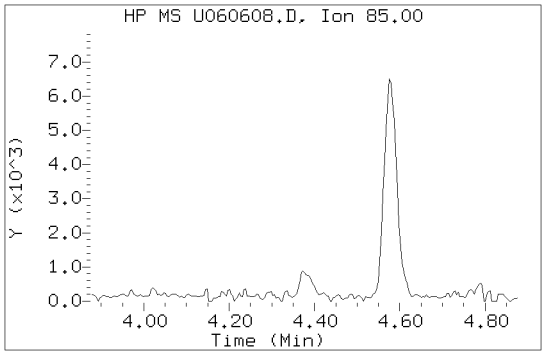
BEFORE

MASS
85
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
85
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham

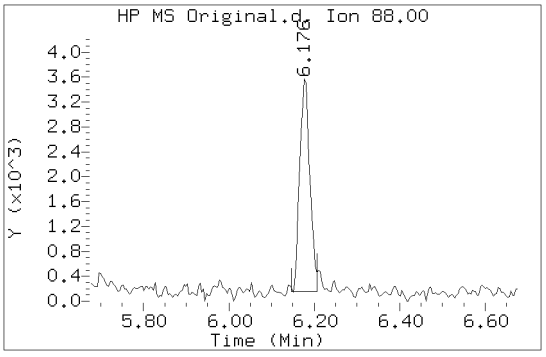


1,4-Dioxane ()

Reason Code:

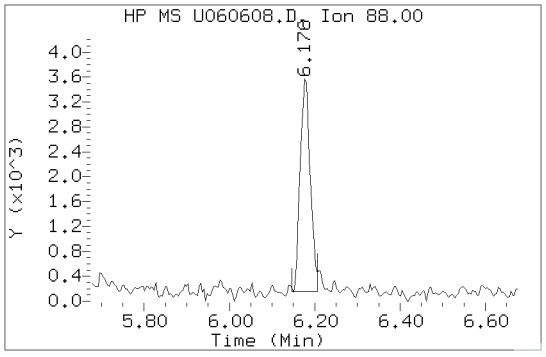
BEFORE

MASS
88
AREA
5764
HEIGHT
3411
08-Jun-2023
14:56
linh
pham



AFTER

MASS
88
AREA
5764
HEIGHT
3411
13-Jun-2023
13:00
linh
pham



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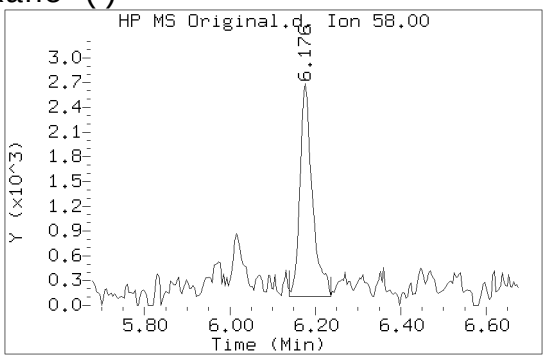
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

1,4-Dioxane ()

Reason Code:

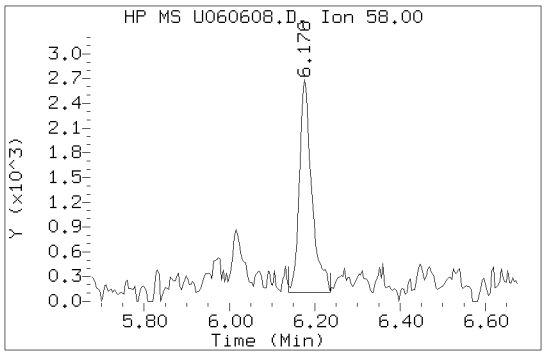
BEFORE

MASS
58
AREA
5271
HEIGHT
2575
08-Jun-2023
14:56
linh
pham



AFTER

MASS
58
AREA
5271
HEIGHT
2575
13-Jun-2023
13:00
linh
pham

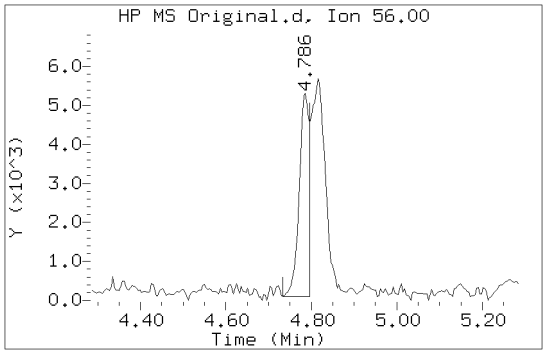


Cyclohexane (110-82-7)

Reason Code:

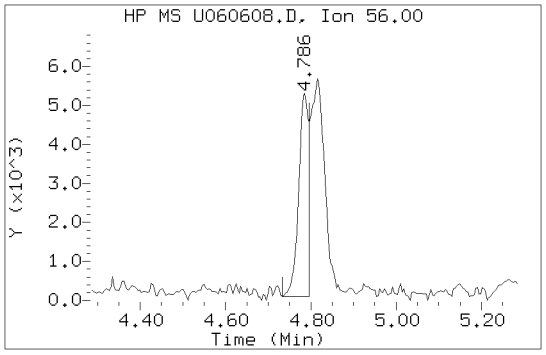
BEFORE

MASS
56
AREA
8877
HEIGHT
5201
08-Jun-2023
14:56
linh
pham



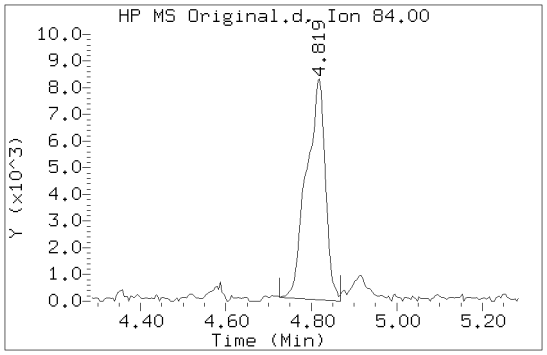
AFTER

MASS
56
AREA
8877
HEIGHT
5201
13-Jun-2023
13:00
linh
pham



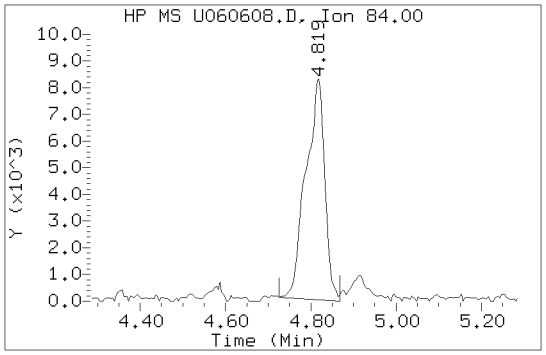
BEFORE

MASS
84
AREA
25654
HEIGHT
8278
08-Jun-2023
14:56
linh
pham



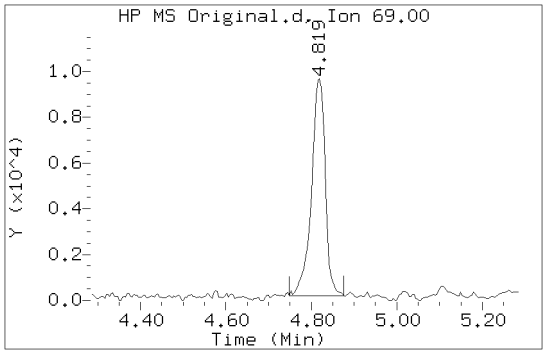
AFTER

MASS
84
AREA
25654
HEIGHT
8278
13-Jun-2023
13:00
linh
pham



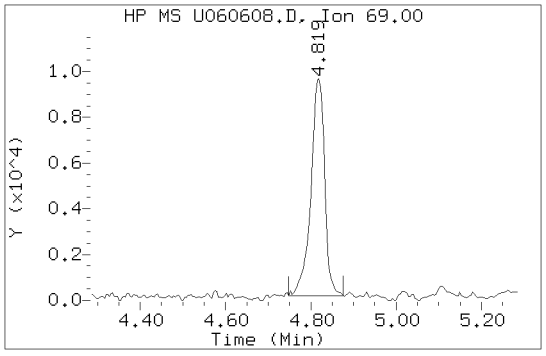
BEFORE

MASS
69
AREA
21405
HEIGHT
9491
08-Jun-2023
14:56
linh
pham



AFTER

MASS
69
AREA
21405
HEIGHT
9491
13-Jun-2023
13:00
linh
pham

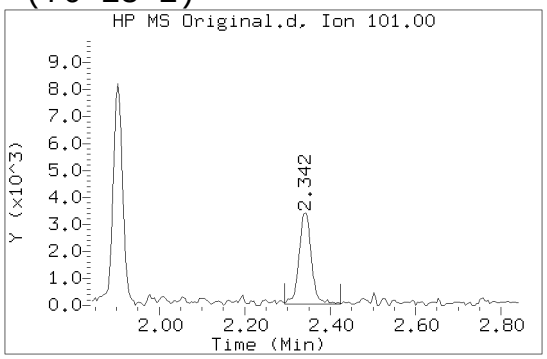


Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060608.D
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

Freon TF (76-13-1)

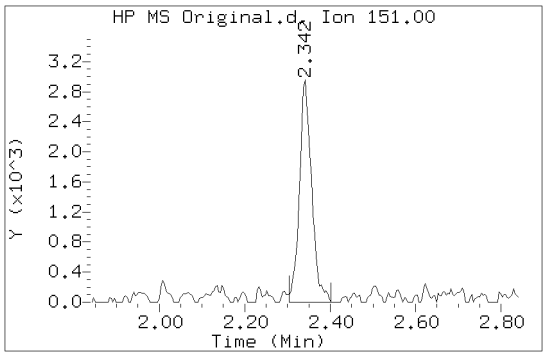
BEFORE

MASS
101
AREA
6997
HEIGHT
3366
08-Jun-2023
14:56
linh
pham



BEFORE

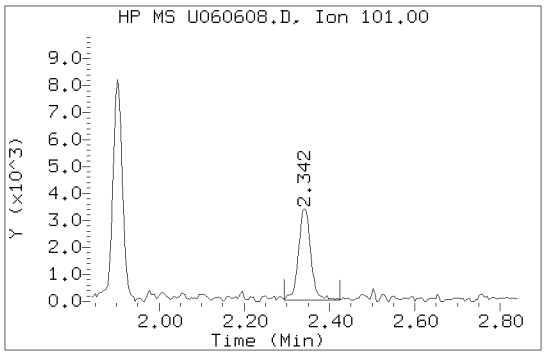
MASS
151
AREA
5971
HEIGHT
2957
08-Jun-2023
14:56
linh
pham



Reason Code:

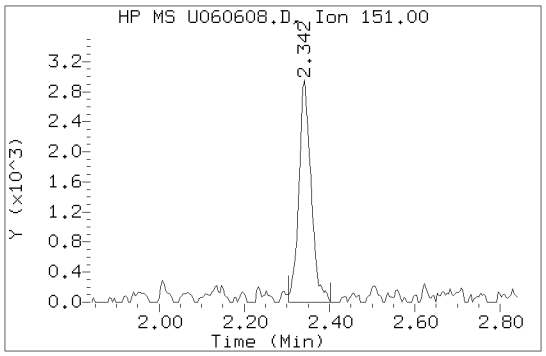
AFTER

MASS
101
AREA
6997
HEIGHT
3366
13-Jun-2023
13:00
linh
pham



AFTER

MASS
151
AREA
5971
HEIGHT
2957
13-Jun-2023
13:00
linh
pham



Epichlorohydrin (106-89-8)

BEFORE

MASS
57
AREA
0
HEIGHT
0
08-Jun-2023
14:56
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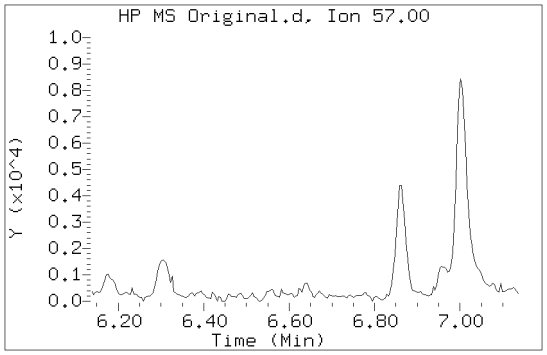

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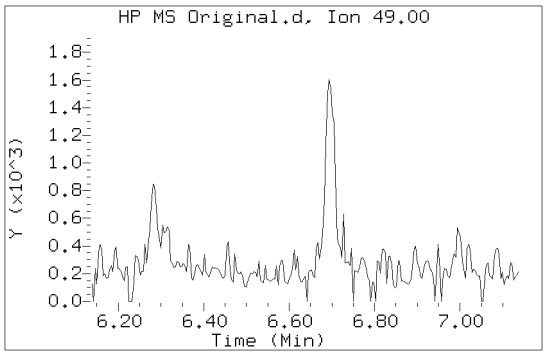

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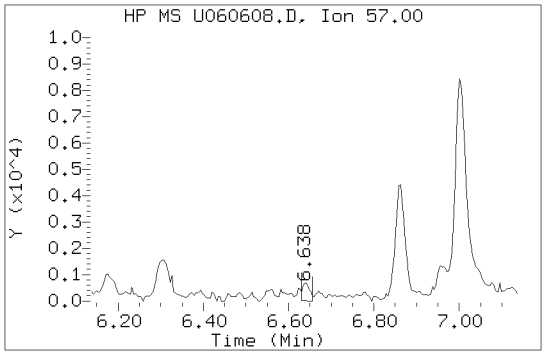

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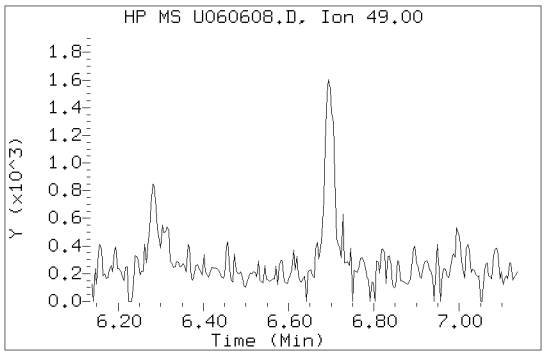

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InstruID : VOA9.i
LabSampID : VSTD002

n-Butyl acetate (123-86-4)

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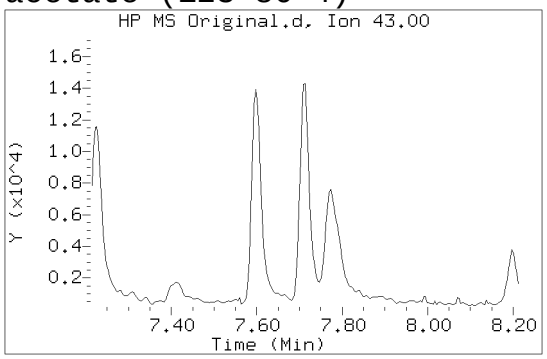

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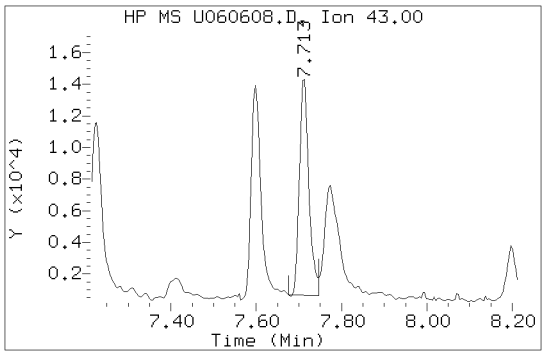

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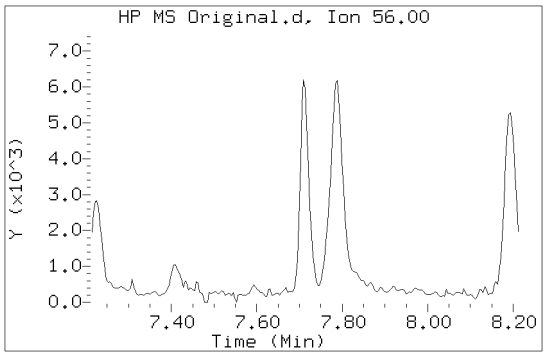

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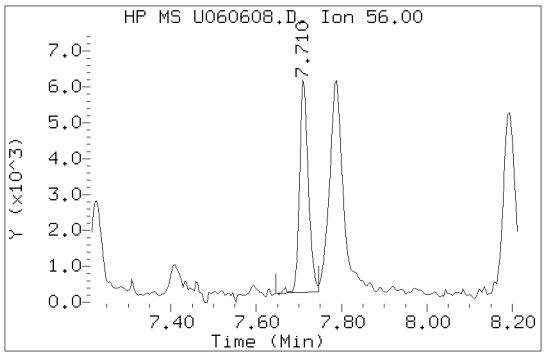

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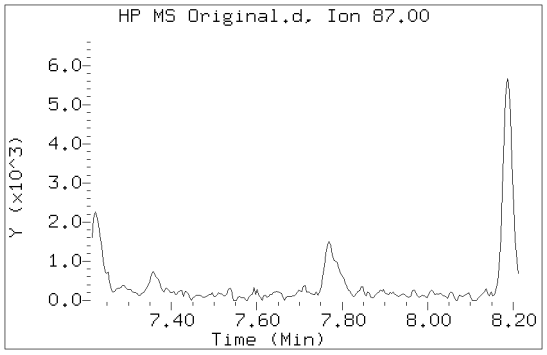

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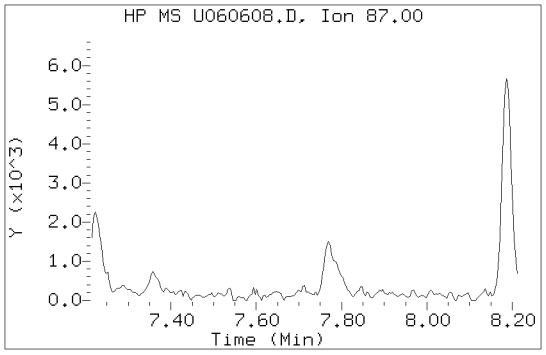

Dimethyl Disulfide (624-92-0)

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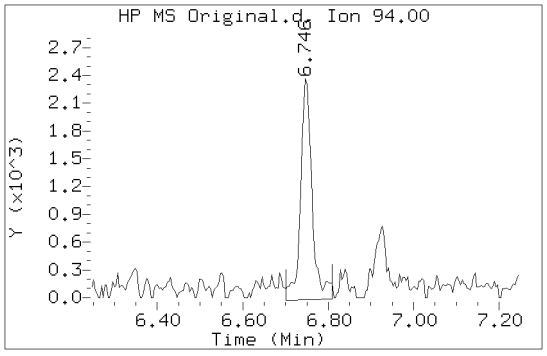

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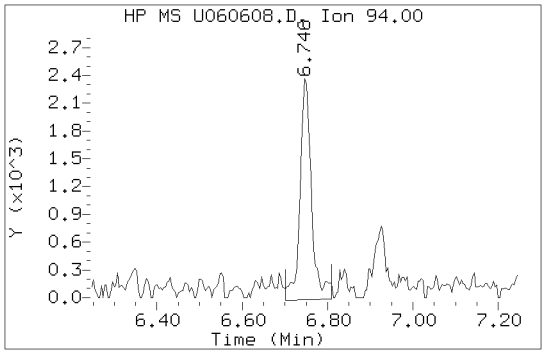

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LabSampID : VSTD002

Dimethyl Disulfide (624-92-0)

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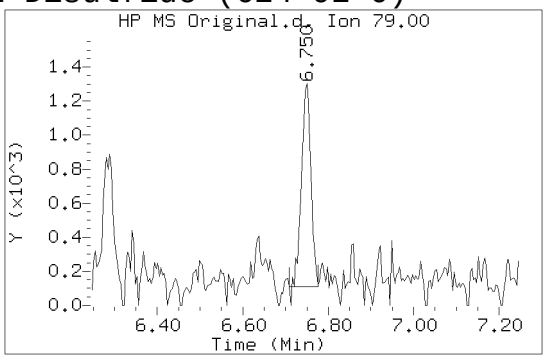

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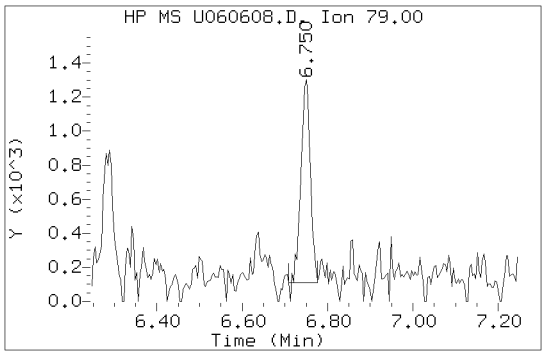

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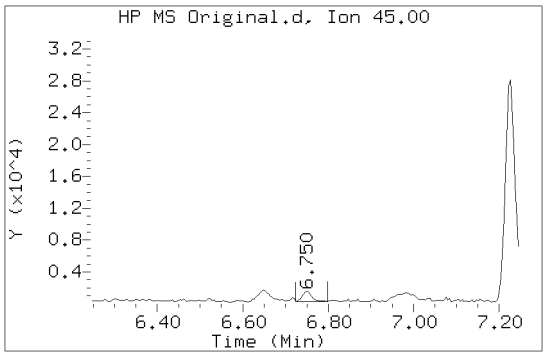

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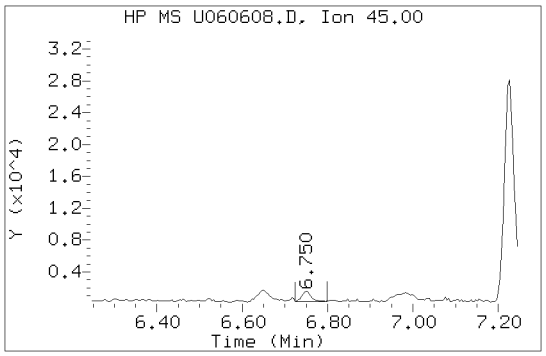

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Report Date: 21-Jun-2023 13:48

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060609.D
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Smp Info : VSTD020;VSTD020;1;6;
Misc Info : V9;WATER;0;1;
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Meth Date : 21-Jun-2023 13:45 pcabasca Quant Type: ISTD
Cal Date : 06-JUN-2023 14:13 Cal File: U060609.D
Als bottle: 10 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14

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)	699800	50.0000	
2	Dichlorodifluoromethane	85	1.156	1.156	(0.240)	134998	20.0000	20.92
3	Chloromethane	50	1.291	1.291	(0.268)	243997	20.0000	22.39
5	Vinyl Chloride	62	1.370	1.370	(0.285)	154975	20.0000	20.93
6	Bromomethane	94	1.614	1.614	(0.335)	85360	20.0000	21.41
7	Chloroethane	64	1.693	1.693	(0.352)	101661	20.0000	20.38
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	186610	20.0000	21.95
9	Acrolein	56	2.259	2.259	(0.469)	13555	40.0000	36.49
10	Acetone	43	2.405	2.405	(0.500)	105410	40.0000	40.65
11	1,1-Dichloroethene	96	2.326	2.326	(0.483)	106844	20.0000	20.11
15	Iodomethane	142	2.465	2.465	(0.512)	69713	40.0000	25.52
16	Acrylonitrile	53	3.061	3.061	(0.636)	100523	40.0000	38.73
17	Methylene Chloride	84	2.791	2.791	(0.580)	133454	20.0000	20.31
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	301047	20.0000	18.48
19	Carbon Disulfide	76	2.514	2.514	(0.522)	585546	40.0000	41.23
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	117673	20.0000	20.36
21	Vinyl Acetate	43	3.604	3.604	(0.749)	686124	40.0000	38.96
22	1,1-Dichloroethane	63	3.511	3.511	(0.730)	209138	20.0000	19.05
24	2-Butanone	43	4.264	4.264	(0.886)	120643	40.0000	37.81
26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	139835	20.0000	19.51
27	cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	136001	20.0000	19.67

28	Chloroform	83	4.568	4.568 (0.949)	226645	20.0000	19.83
29	Bromochloromethane	128	4.467	4.467 (0.928)	75232	20.0000	19.46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	119153	20.0000	20.09
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	178912	20.0000	20.54
	32 1,1-Dichloropropene	75	4.916	4.916	(0.886)	160757	20.0000	20.96
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	178788	20.0000	19.74
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	147458	20.0000	20.93
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	129564	20.0000	19.98
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	1046146	50.0000	
	37 Benzene	78	5.138	5.138	(0.926)	516341	20.0000	20.48
	38 Trichloroethene	130	5.786	5.786	(1.043)	145174	20.0000	19.86
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	153153	20.0000	19.47
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	7046	40.0000	37.04(M)
	42 1,2-Dichloropropane	63	6.011	6.011	(1.083)	134169	20.0000	19.93
	44 Dibromomethane	93	6.120	6.120	(1.103)	83709	20.0000	19.46
	45 4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	288078	40.0000	41.20
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.206)	176588	20.0000	18.03
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	960016	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	445555	20.0000	20.50
	50 Toluene	91	6.982	6.982	(0.853)	554230	20.0000	21.28
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.297)	143978	20.0000	17.64
	52 2-Hexanone	43	7.593	7.593	(0.928)	190529	40.0000	39.13
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	107394	20.0000	19.82
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	226819	20.0000	20.49
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	128911	20.0000	20.05
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	133448	20.0000	21.03
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	132458	20.0000	19.81
	58 1-Chlorohexane	55	8.197	8.197	(1.477)	111769	20.0000	20.80
	59 Chlorobenzene	112	8.208	8.208	(1.003)	374064	20.0000	20.12
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	128313	20.0000	20.08
	61 Ethylbenzene	106	8.305	8.305	(1.015)	179483	20.0000	20.75
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	421040	40.0000	41.14
	63 o-Xylene	106	8.748	8.748	(1.069)	206194	20.0000	20.39
	64 Styrene	104	8.763	8.763	(1.071)	318690	20.0000	19.86
	66 Bromoform	173	8.920	8.920	(1.090)	81243	20.0000	18.72
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	516146	20.0000	21.25
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	178916	20.0000	19.34
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	178335	20.0000	20.30
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	491623	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	151200	20.0000	18.58
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	527972	20.0000	20.47
	74 Bromobenzene	156	9.317	9.317	(0.916)	165398	20.0000	19.93
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	338496	20.0000	19.13
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	380446	20.0000	20.98
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	415563	20.0000	20.71
	78 tert-Butylbenzene	119	9.838	9.838	(0.967)	368922	20.0000	21.23
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	349187	20.0000	18.86
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	457784	20.0000	20.77
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	348135	20.0000	18.85
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	280647	20.0000	19.92
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	292174	20.0000	19.45
	87 n-Butylbenzene	91	10.491	10.491	(1.031)	319352	20.0000	20.20
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	281467	20.0000	19.92
	89 1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	24061	20.0000	17.83

90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	186288	20.0000	19.17
91 Hexachlorobutadiene	225	11.998	11.998 (1.179)	79518	20.0000	20.26