

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD070323\
 Data File : VD076696.D
 Acq On : 03 Jul 2023 16:55
 Operator : KP/SY
 Sample : 03444-13
 Misc : 1.69G/10.0ml/MSVOA_D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 A46T7RE

Quant Time: Jul 04 01:11:26 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\SFAMDLM061523SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Jun 16 01:50:34 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.769	114	2933	25.000	ug/L	# 0.00
28) Chlorobenzene-d5	11.581	117	3102	25.000	ug/L	# 0.00
58) 1,4-Dichlorobenzene-d4	13.669	152	232	25.000	ug/L	0.15
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.264	65	207	2.898	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	11.600%#
7) Chloroethane-d5	2.799	69	170	2.943	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	11.760%#
11) 1,1-Dichloroethene-d2	0.000	65	0	0.000	ug/L	
Spiked Amount	25.000	Range	45 - 110	Recovery	=	0.000%#
21) 2-Butanone-d5	6.981	46	133	12.295	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	24.580%
24) Chloroform-d	7.552	84	824	10.664	ug/L	-0.02
Spiked Amount	25.000	Range	40 - 150	Recovery	=	42.640%
26) 1,2-Dichloroethane-d4	8.240	65	283	7.424	ug/L	0.01
Spiked Amount	25.000	Range	70 - 130	Recovery	=	29.680%#
32) Benzene-d6	8.187	84	1440	7.589	ug/L	-0.01
Spiked Amount	25.000	Range	20 - 135	Recovery	=	30.360%
36) 1,2-Dichloropropane-d6	9.210	67	549	9.064	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	36.240%#
41) Toluene-d8	10.275	98	1097	6.244	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	24.960%#
43) trans-1,3-Dichloroprop...	10.457	79	223	8.852	ug/L	-0.07
Spiked Amount	25.000	Range	30 - 135	Recovery	=	35.400%
47) 2-Hexanone-d5	10.869	63	74	7.871	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	15.740%#
56) 1,1,2,2-Tetrachloroeth...	12.657	84	413	9.584	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	38.320%#
66) 1,2-Dichlorobenzene-d4	13.975	152	62	7.291	ug/L	0.16
Spiked Amount	25.000	Range	75 - 120	Recovery	=	29.160%#
Target Compounds						
					Qvalue	
3) Chloromethane	1.952	50	62	0.816	ug/L	# 41
5) Vinyl chloride	2.287	62	126	1.537	ug/L	# 45
8) Chloroethane	2.928	64	110	2.191	ug/L	# 43
13) Acetone	4.016	43	273	31.246	ug/L	# 41
15) Methyl Acetate	4.664	43	128	6.418	ug/L	# 53
18) Methyl tert-butyl Ether	5.181	73	113	1.170	ug/L	# 1
20) cis-1,2-Dichloroethene	7.075	96	144	3.038	ug/L	# 1
22) 2-Butanone	7.081	43	214	15.177	ug/L	# 49
25) Chloroform	7.722	83	61	0.806	ug/L	# 18
29) Cyclohexane	7.869	56	62	0.752	ug/L	# 1
34) Trichloroethene	9.034	95	280	5.309	ug/L	# 17
35) Methylcyclohexane	9.263	83	97	1.141	ug/L	# 1
38) Bromodichloromethane	9.581	83	251	3.932	ug/L	# 43
40) 4-Methyl-2-pentanone	10.157	43	231	6.634	ug/L	# 44
42) Toluene	10.316	91	366	1.668	ug/L	# 23
45) 1,1,2-Trichloroethane	10.728	97	69	1.797	ug/L	# 39
48) 2-Hexanone	10.928	43	562	23.567	ug/L	# 41
49) Dibromochloromethane	11.251	129	237	5.432	ug/L	# 84
50) 1,2-Dibromoethane	11.181	107	148	3.972	ug/L	# 1

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

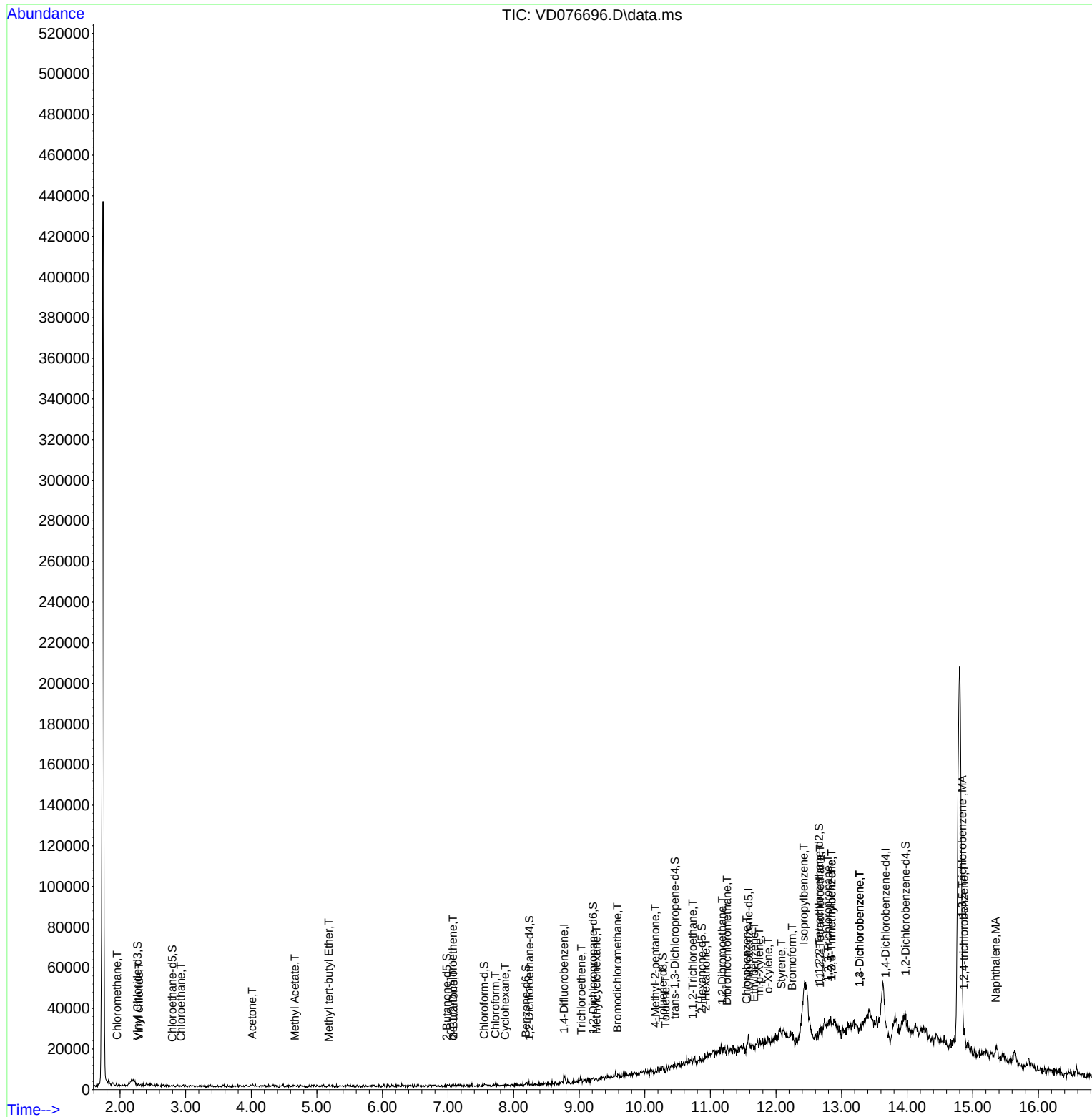
51) Chlorobenzene	11.551	112	135	0.986	ug/L #	6
52) Ethylbenzene	11.669	91	283	1.197	ug/L	85
53) m,p-Xylene	11.746	106	142	1.528	ug/L	84
54) o-Xylene	11.881	106	60	0.678	ug/L	80
55) Styrene	12.081	104	115	0.752	ug/L #	31
57) 1,1,2,2-Tetrachloroethane	12.669	83	448	10.210	ug/L #	43
59) Bromoform	12.245	173	185	44.544	ug/L #	12
60) Isopropylbenzene	12.422	105	210	5.918	ug/L #	1
61) 1,2,3-Trichloropropane	12.793	75	153	33.981	ug/L #	1
62) 1,3,5-Trimethylbenzene	12.845	105	387	13.631	ug/L	98
63) 1,2,4-Trimethylbenzene	12.845	105	387	13.813	ug/L	94
64) 1,3-Dichlorobenzene	13.275	146	122	7.728	ug/L #	1
65) 1,4-Dichlorobenzene	13.275	146	122	7.666	ug/L #	1
69) 1,3,5-Trichlorobenzene	14.839	180	191	18.139	ug/L #	1
70) 1,2,4-trichlorobenzene	14.863	180	71	7.578	ug/L #	1
71) Naphthalene	15.351	128	226	12.599	ug/L #	47

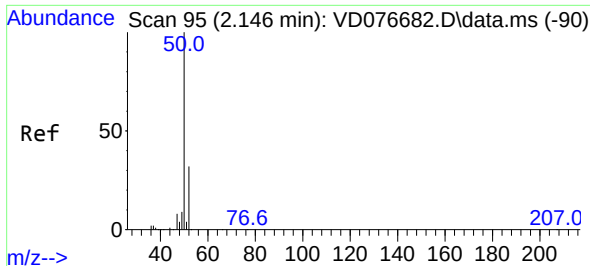
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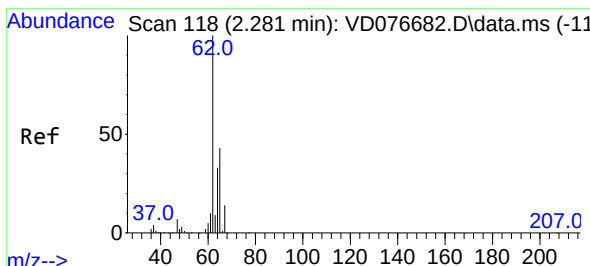
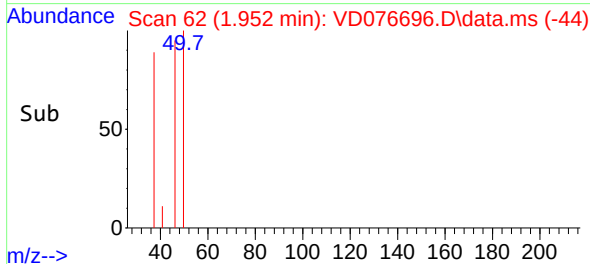
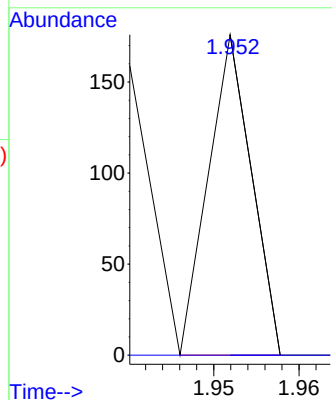
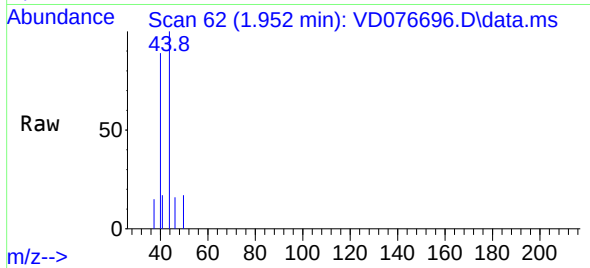




#3
Chloromethane
Concen: 0.816 ug/L
RT: 1.952 min Scan# 61
Delta R.T. -0.194 min
Lab File: VD076696.D
Acq: 03 Jul 2023 16:55

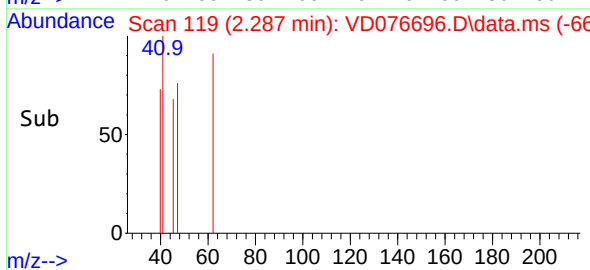
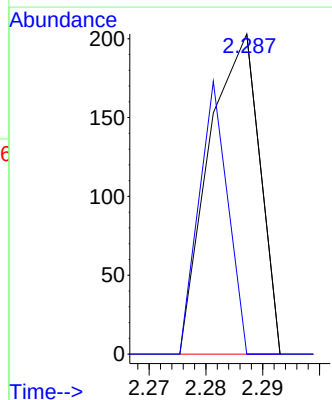
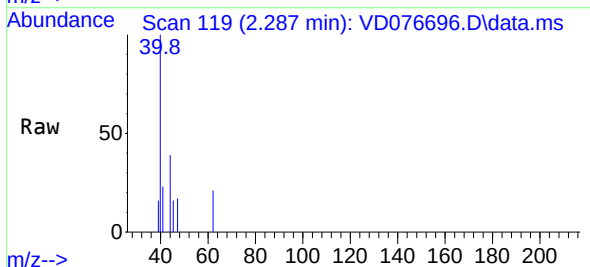
Instrument :
MSVOA_D
ClientSampleId :
A46T7RE

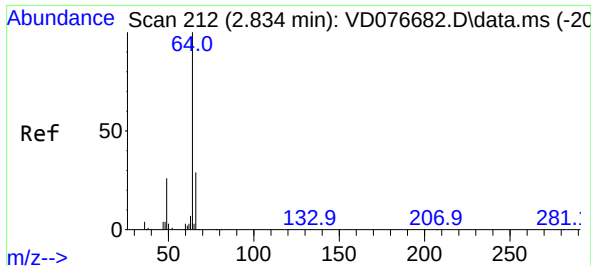
Tgt Ion: 50 Resp: 62
Ion Ratio Lower Upper
50 100
52 0.0 23.2 43.2#



#5
Vinyl chloride
Concen: 1.537 ug/L
RT: 2.287 min Scan# 119
Delta R.T. 0.012 min
Lab File: VD076696.D
Acq: 03 Jul 2023 16:55

Tgt Ion: 62 Resp: 126
Ion Ratio Lower Upper
62 100
64 0.0 21.1 39.1#

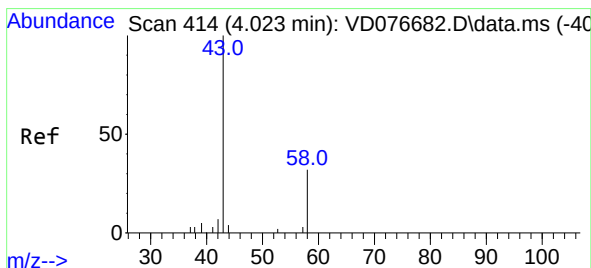
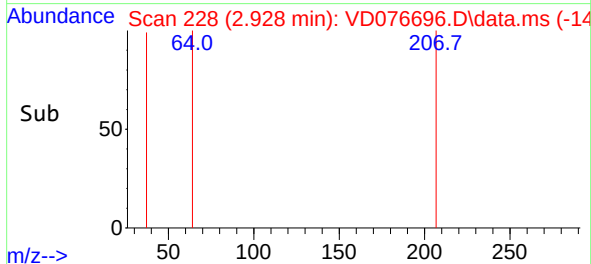
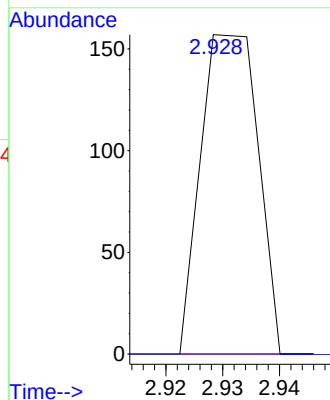
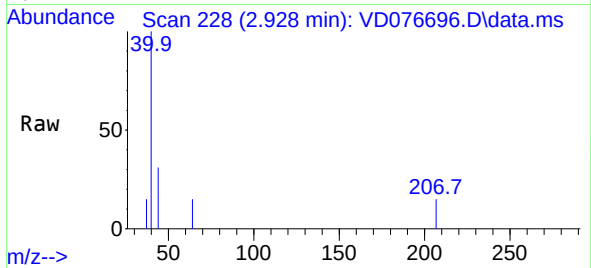




#8
Chloroethane
Concen: 2.191 ug/L
RT: 2.928 min Scan# 212
Delta R.T. 0.094 min
Lab File: VD076696.D
Acq: 03 Jul 2023 16:55

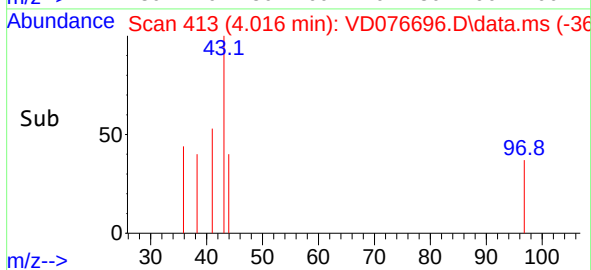
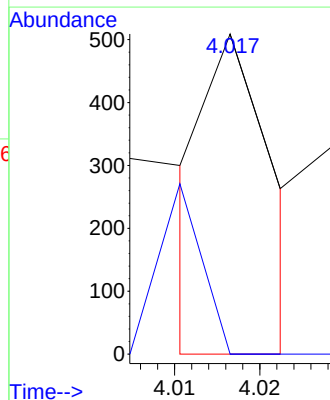
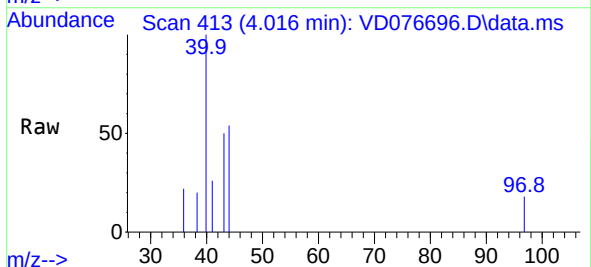
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ClientSampleId :
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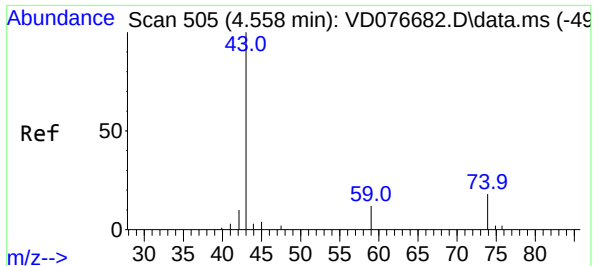
Tgt Ion: 64 Resp: 110
Ion Ratio Lower Upper
64 100
66 0.0 22.1 41.1#



#13
Acetone
Concen: 31.246 ug/L
RT: 4.016 min Scan# 413
Delta R.T. -0.006 min
Lab File: VD076696.D
Acq: 03 Jul 2023 16:55

Tgt Ion: 43 Resp: 273
Ion Ratio Lower Upper
43 100
58 0.0 0.0 67.4

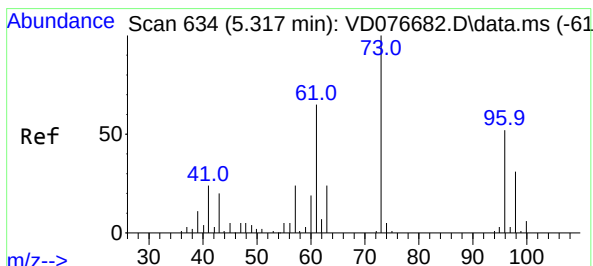
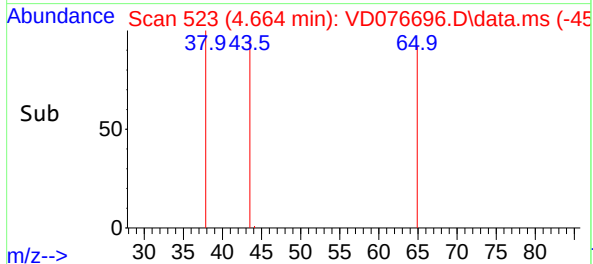
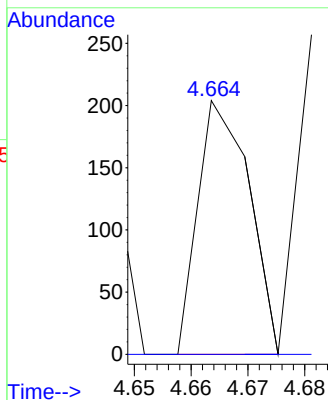
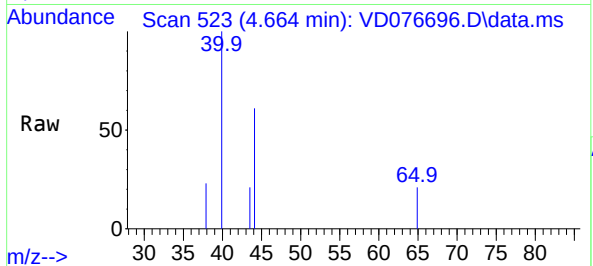




#15
Methyl Acetate
Concen: 6.418 ug/L
RT: 4.664 min Scan# 511
Delta R.T. 0.106 min
Lab File: VD076696.D
Acq: 03 Jul 2023 16:55

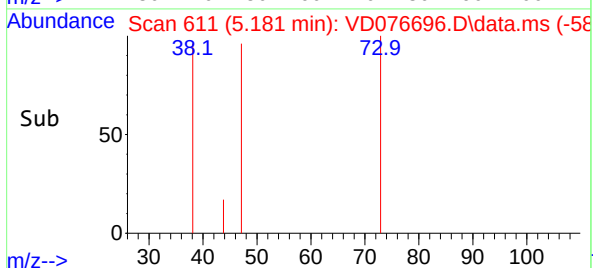
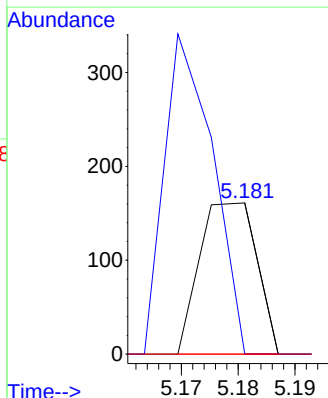
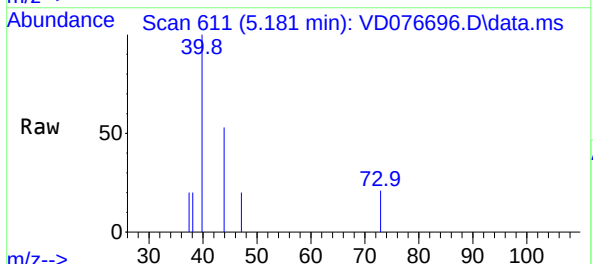
Instrument :
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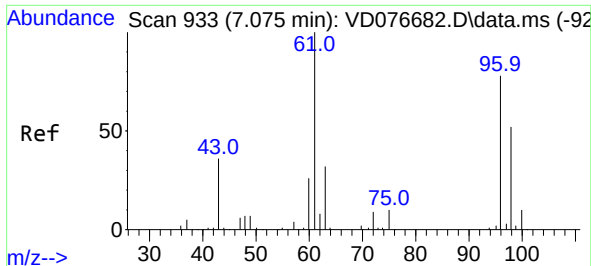
Tgt Ion: 43 Resp: 128
Ion Ratio Lower Upper
43 100
74 0.0 18.2 27.2#



#18
Methyl tert-butyl Ether
Concen: 1.170 ug/L
RT: 5.181 min Scan# 611
Delta R.T. -0.135 min
Lab File: VD076696.D
Acq: 03 Jul 2023 16:55

Tgt Ion: 73 Resp: 113
Ion Ratio Lower Upper
73 100
43 178.8 7.2 10.8#
57 0.0 18.6 28.0#

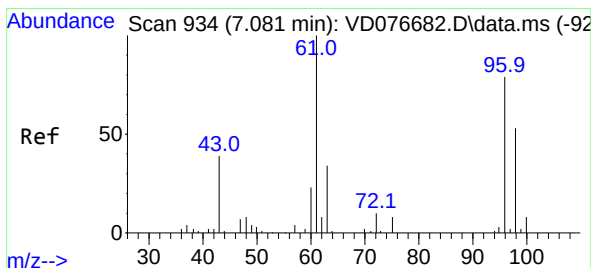
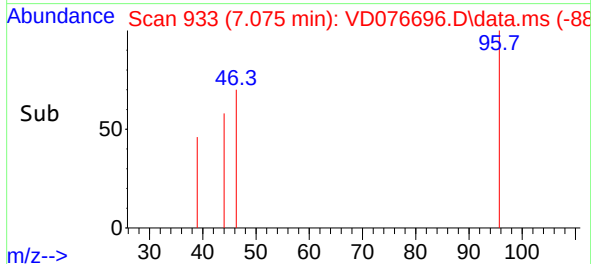
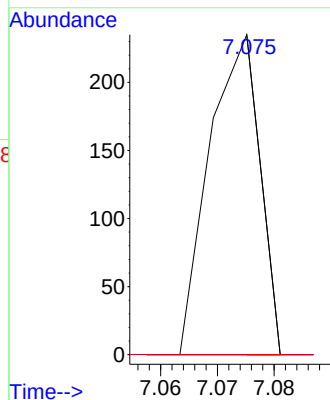
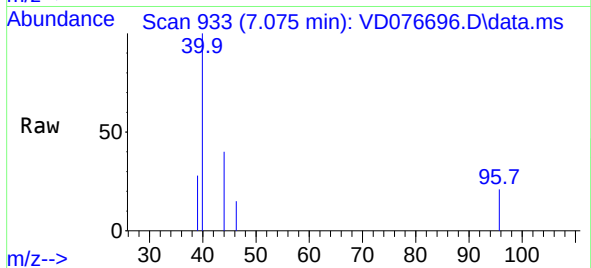




#20
cis-1,2-Dichloroethene
Concen: 3.038 ug/L
RT: 7.075 min Scan# 91
Delta R.T. -0.000 min
Lab File: VD076696.D
Acq: 03 Jul 2023 16:55

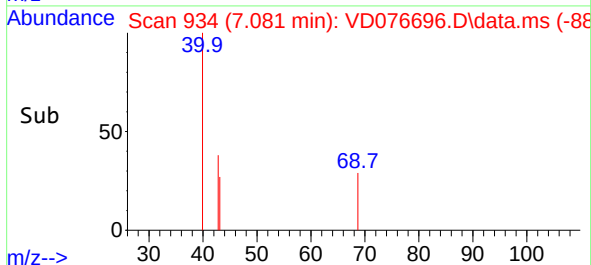
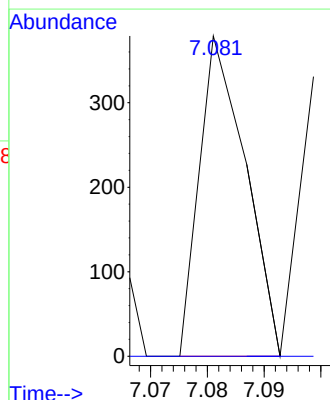
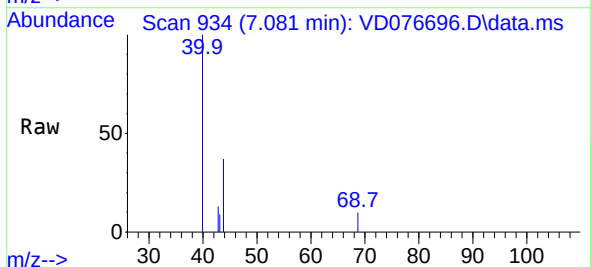
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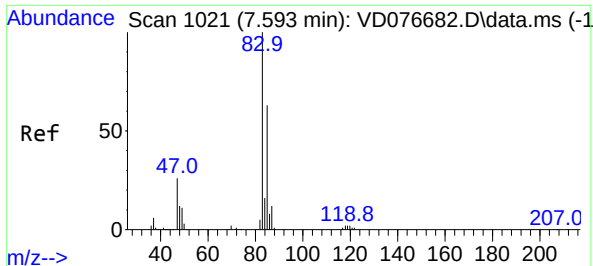
Tgt Ion: 96 Resp: 144
Ion Ratio Lower Upper
96 100
61 0.0 86.0 159.6#
98 0.0 42.2 78.4#



#22
2-Butanone
Concen: 15.177 ug/L
RT: 7.081 min Scan# 934
Delta R.T. -0.000 min
Lab File: VD076696.D
Acq: 03 Jul 2023 16:55

Tgt Ion: 43 Resp: 214
Ion Ratio Lower Upper
43 100
72 0.0 12.9 38.7#

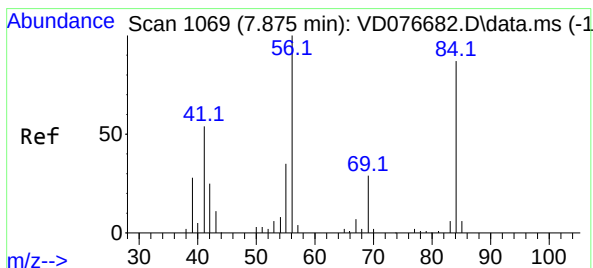
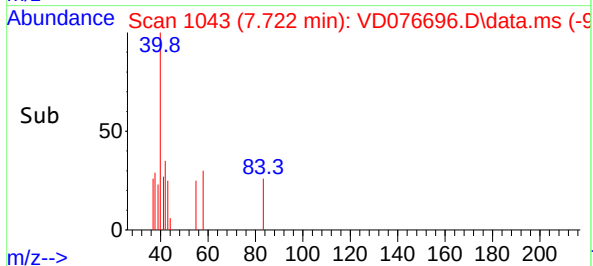
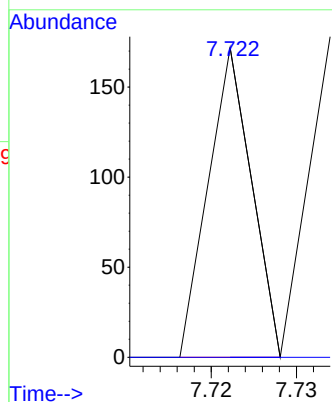
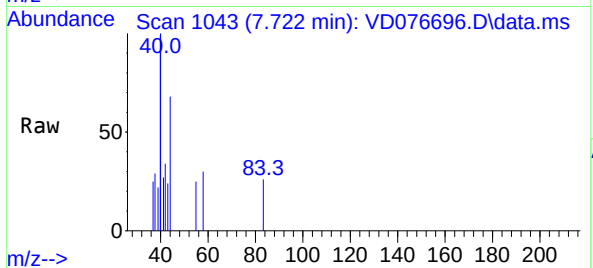




#25
Chloroform
Concen: 0.806 ug/L
RT: 7.722 min Scan# 1043
Delta R.T. 0.129 min
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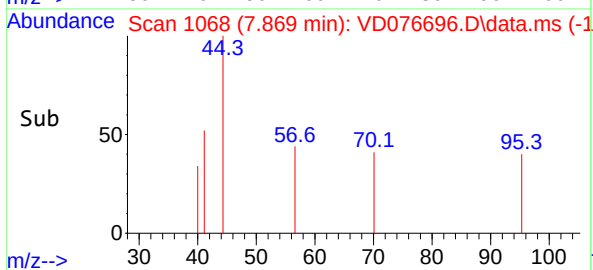
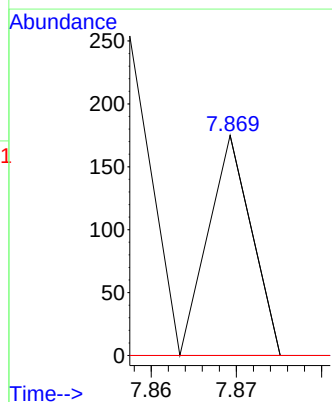
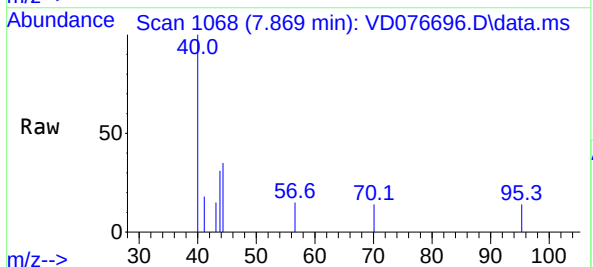
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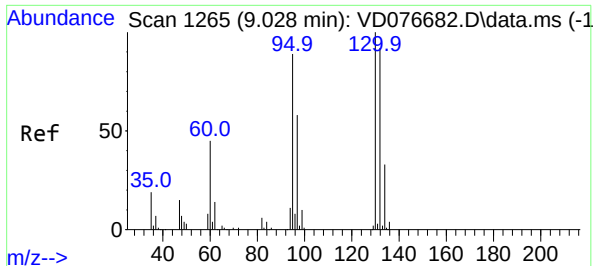
Tgt Ion: 83 Resp: 61
Ion Ratio Lower Upper
83 100
85 0.0 45.4 84.4#



#29
Cyclohexane
Concen: 0.752 ug/L
RT: 7.869 min Scan# 1068
Delta R.T. -0.006 min
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Tgt Ion: 56 Resp: 62
Ion Ratio Lower Upper
56 100
69 193.5 23.4 35.0#
84 0.0 66.3 99.5#

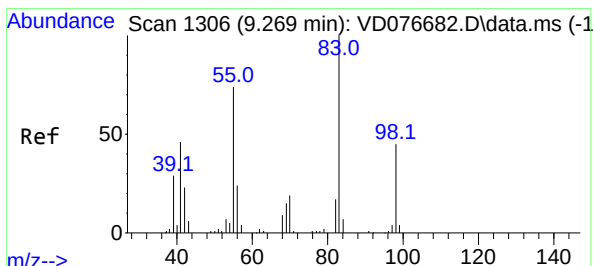
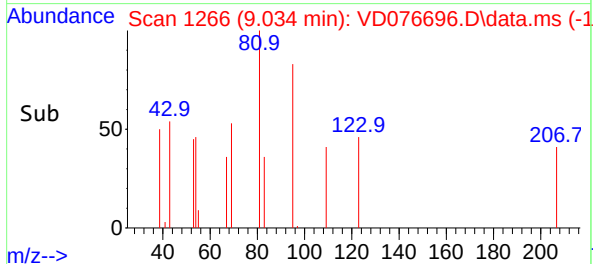
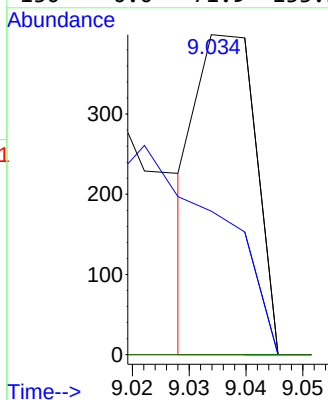
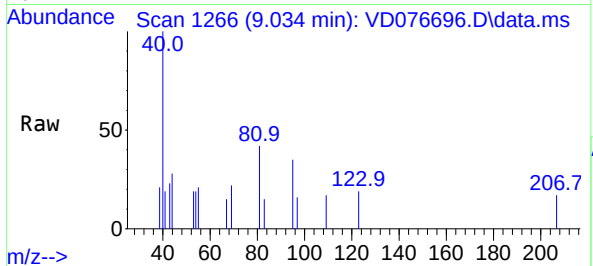




#34
Trichloroethene
Concen: 5.309 ug/L
RT: 9.034 min Scan# 11
Delta R.T. 0.006 min
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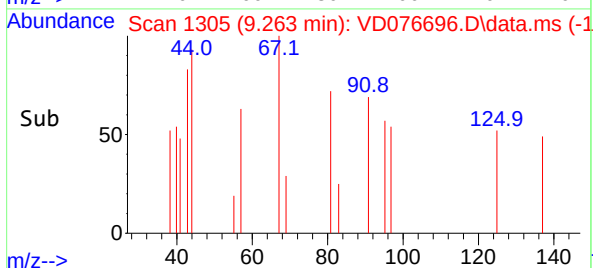
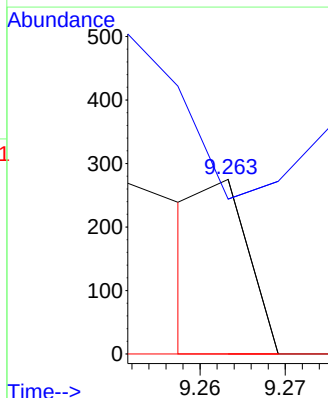
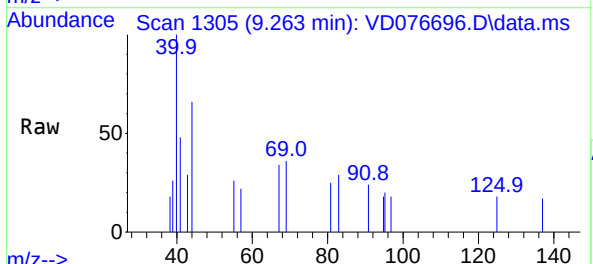
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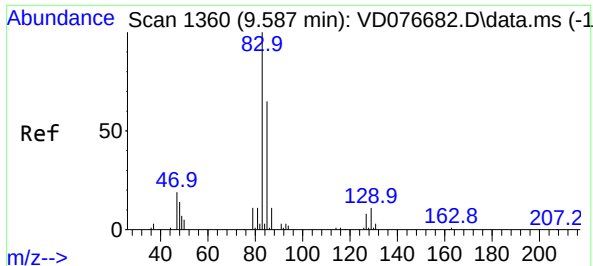
Tgt Ion:	95	Resp:	280
Ion	Ratio	Lower	Upper
95	100		
97	44.9	43.1	80.1
132	0.0	71.8	133.4#
130	0.0	71.9	133.5#



#35
Methylcyclohexane
Concen: 1.141 ug/L
RT: 9.263 min Scan# 1305
Delta R.T. -0.006 min
Lab File: VD076696.D
Acq: 03 Jul 2023 16:55

Tgt Ion:	83	Resp:	97
Ion	Ratio	Lower	Upper
83	100		
55	251.5	59.8	89.6#
98	0.0	37.8	56.6#





#38

Bromodichloromethane

Concen: 3.932 ug/L

RT: 9.581 min Scan# 11

Delta R.T. -0.000 min

Lab File: VD076696.D

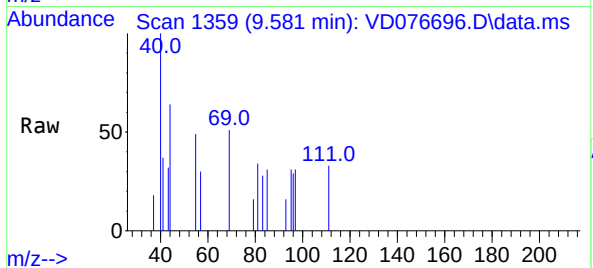
Acq: 03 Jul 2023 16:55

Instrument :

MSVOA_D

ClientSampleId :

A46T7RE



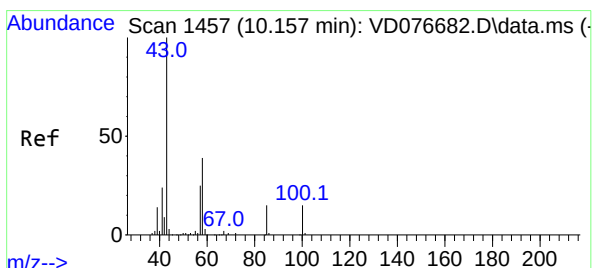
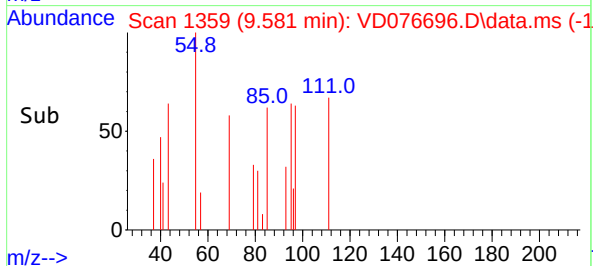
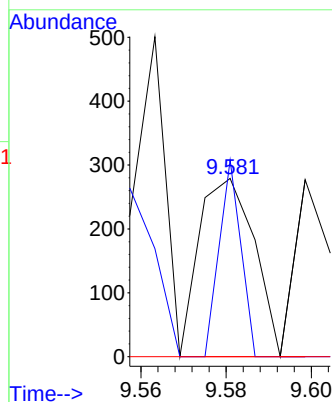
Tgt Ion: 83 Resp: 251

Ion Ratio Lower Upper

83 100

85 110.4 43.9 81.5#

127 0.0 6.6 9.8#



#40

4-Methyl-2-pentanone

Concen: 6.634 ug/L

RT: 10.157 min Scan# 1457

Delta R.T. -0.000 min

Lab File: VD076696.D

Acq: 03 Jul 2023 16:55

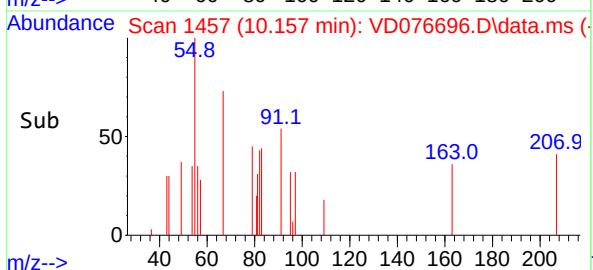
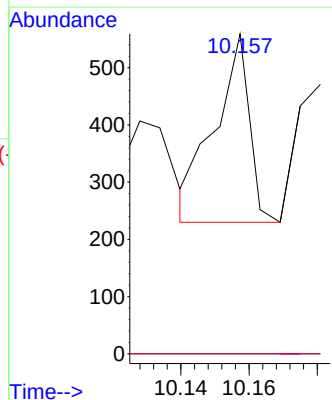
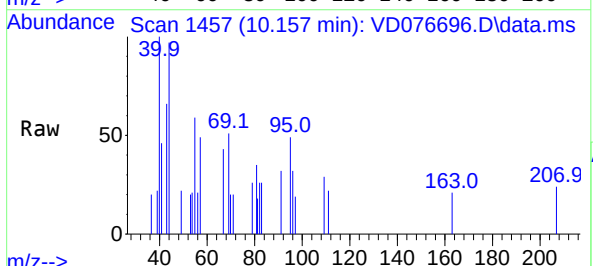
Tgt Ion: 43 Resp: 231

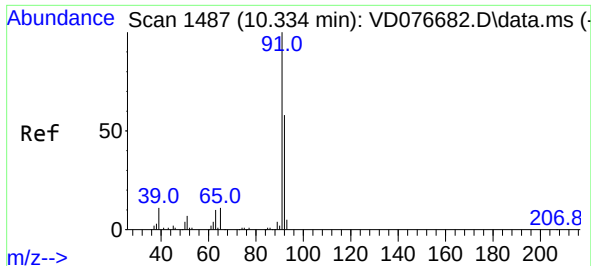
Ion Ratio Lower Upper

43 100

58 0.0 30.7 46.1#

100 0.0 11.0 16.4#

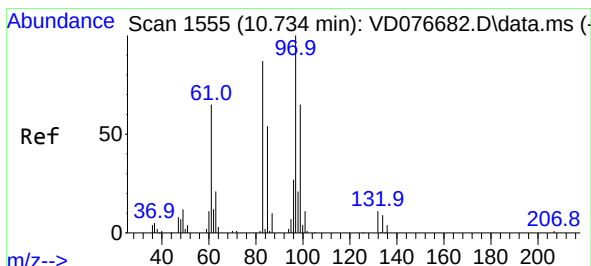
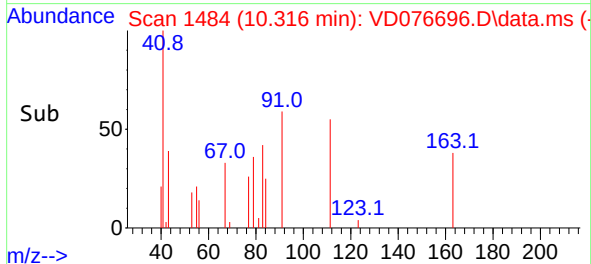
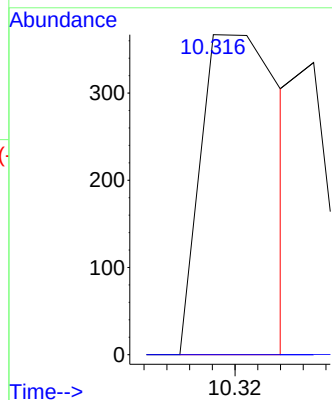
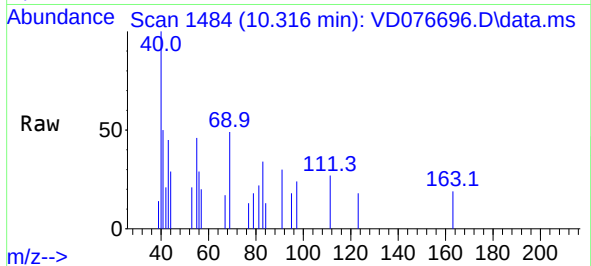




#42
Toluene
Concen: 1.668 ug/L
RT: 10.316 min Scan# 1484
Delta R.T. -0.018 min
Lab File: VD076696.D
Acq: 03 Jul 2023 16:55

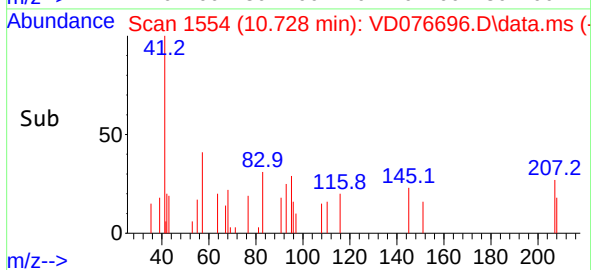
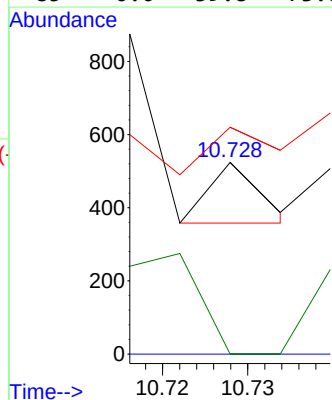
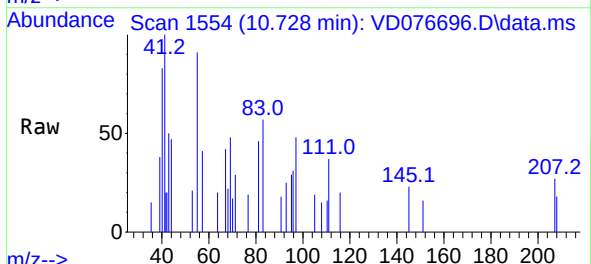
Instrument :
MSVOA_D
ClientSampleId :
A46T7RE

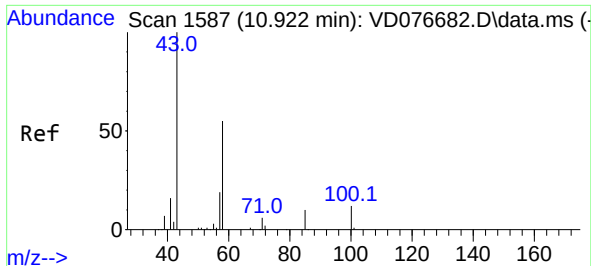
Tgt Ion: 91 Resp: 366
Ion Ratio Lower Upper
91 100
92 0.0 39.3 73.1#



#45
1,1,2-Trichloroethane
Concen: 1.797 ug/L
RT: 10.728 min Scan# 1554
Delta R.T. -0.006 min
Lab File: VD076696.D
Acq: 03 Jul 2023 16:55

Tgt Ion: 97 Resp: 69
Ion Ratio Lower Upper
97 100
99 0.0 41.9 77.9#
83 118.3 59.2 110.0#
85 0.0 39.8 73.8#



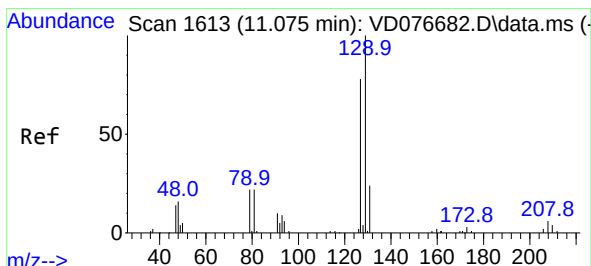
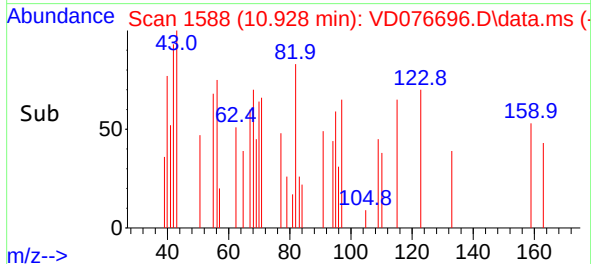
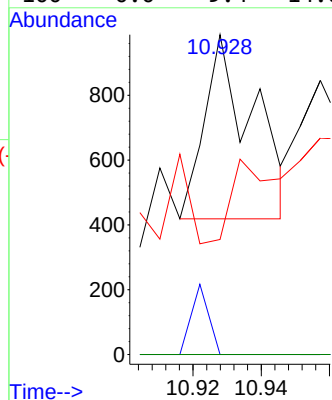
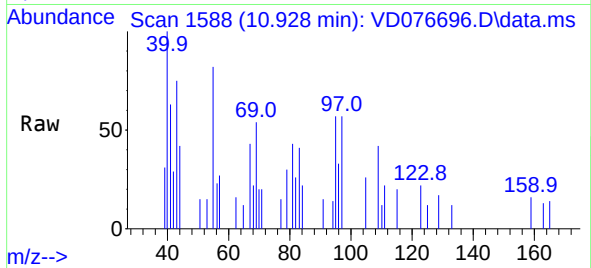


#48
2-Hexanone
Concen: 23.567 ug/L
RT: 10.928 min Scan# 1587
Delta R.T. 0.006 min
Lab File: VD076696.D
Acq: 03 Jul 2023 16:55

Instrument :
MSVOA_D
ClientSampleId :
A46T7RE

Tgt Ion: 43 Resp: 562

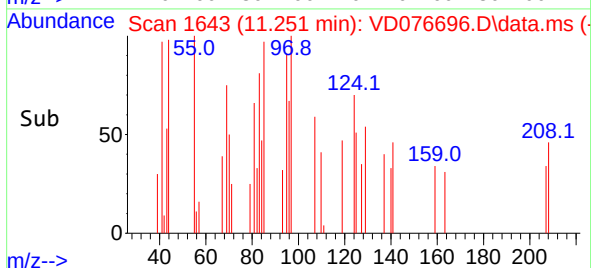
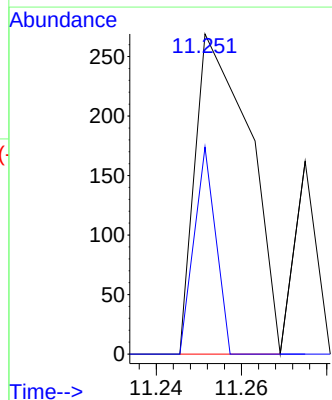
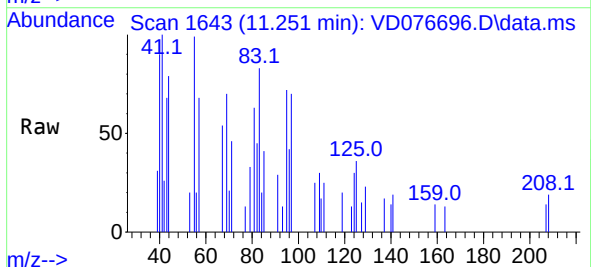
Ion	Ratio	Lower	Upper
43	100		
58	0.0	42.9	64.3#
57	29.4	13.7	20.5#
100	0.0	9.4	14.0#

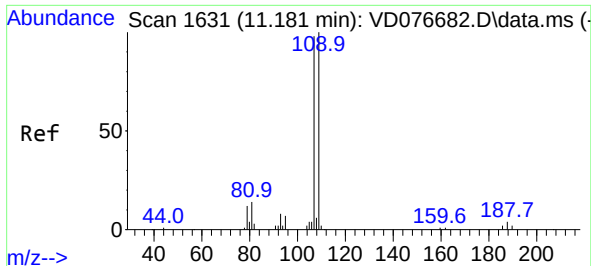


#49
Dibromochloromethane
Concen: 5.432 ug/L
RT: 11.251 min Scan# 1643
Delta R.T. 0.176 min
Lab File: VD076696.D
Acq: 03 Jul 2023 16:55

Tgt Ion: 129 Resp: 237

Ion	Ratio	Lower	Upper
129	100		
127	64.7	55.2	102.6

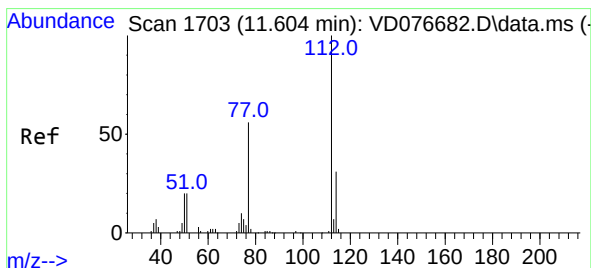
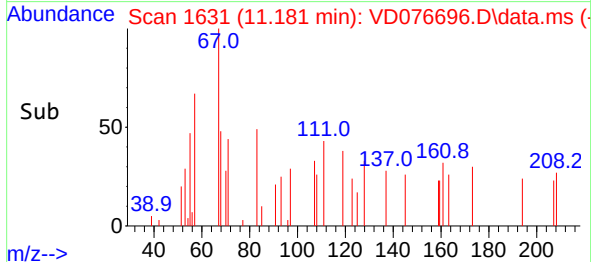
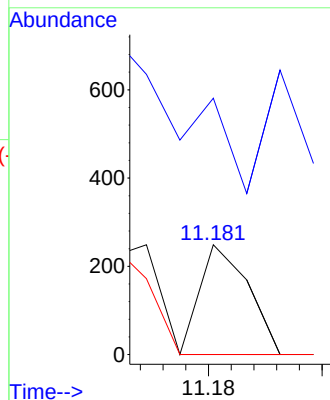
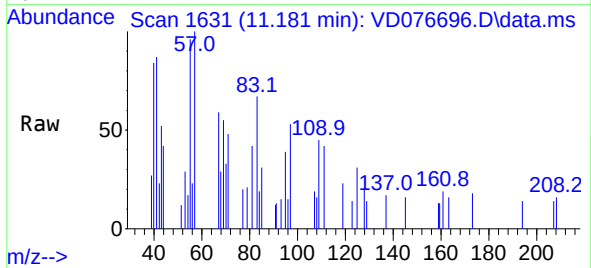




#50
1,2-Dibromoethane
Concen: 3.972 ug/L
RT: 11.181 min Scan# 1631
Delta R.T. -0.000 min
Lab File: VD076696.D
Acq: 03 Jul 2023 16:55

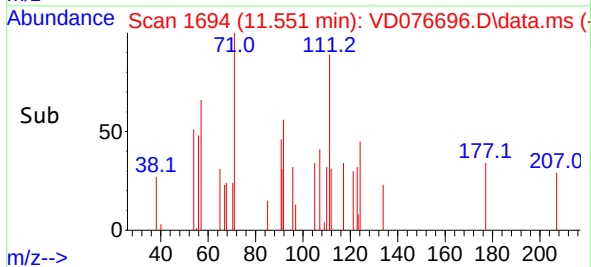
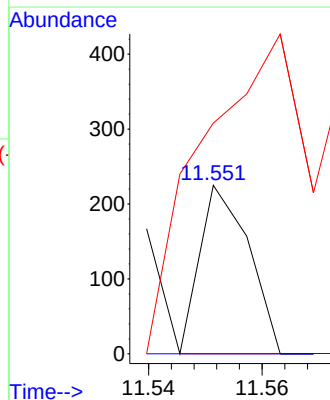
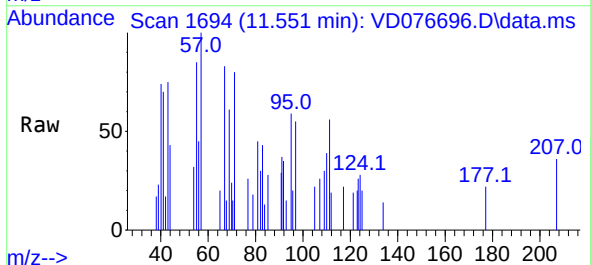
Instrument :
MSVOA_D
ClientSampleId :
A46T7RE

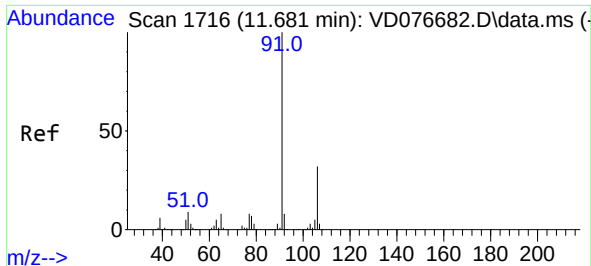
Tgt Ion:107 Resp: 148
Ion Ratio Lower Upper
107 100
109 233.3 58.8 109.2#
188 0.0 2.9 4.3#



#51
Chlorobenzene
Concen: 0.986 ug/L
RT: 11.551 min Scan# 1694
Delta R.T. -0.053 min
Lab File: VD076696.D
Acq: 03 Jul 2023 16:55

Tgt Ion:112 Resp: 135
Ion Ratio Lower Upper
112 100
114 0.0 21.5 39.9#
77 136.9 43.4 65.2#

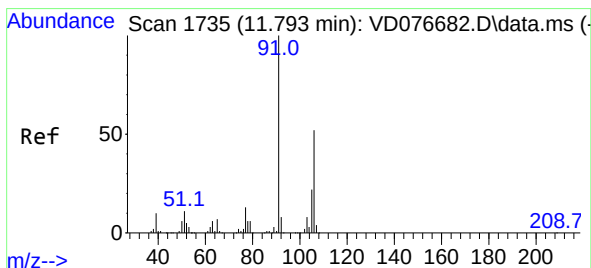
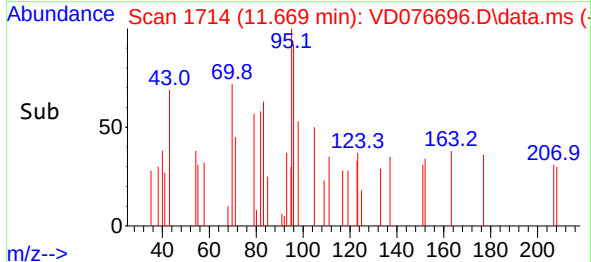
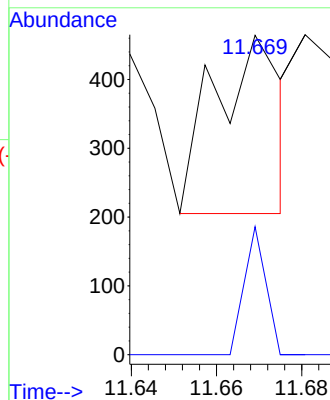
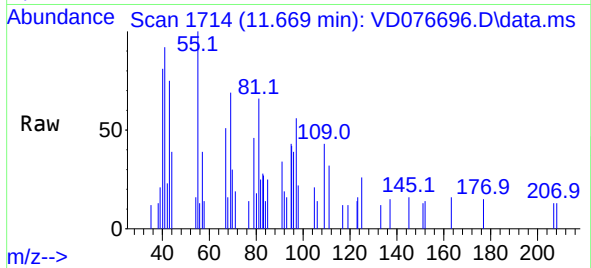




#52
Ethylbenzene
Concen: 1.197 ug/L
RT: 11.669 min Scan# 1714
Delta R.T. -0.012 min
Lab File: VD076696.D
Acq: 03 Jul 2023 16:55

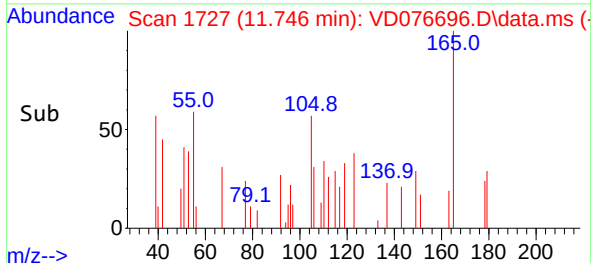
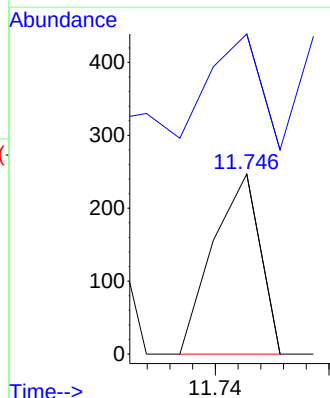
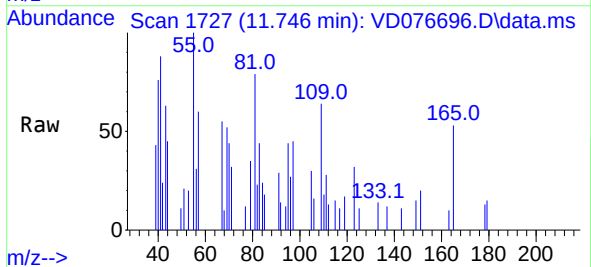
Instrument :
MSVOA_D
ClientSampleId :
A46T7RE

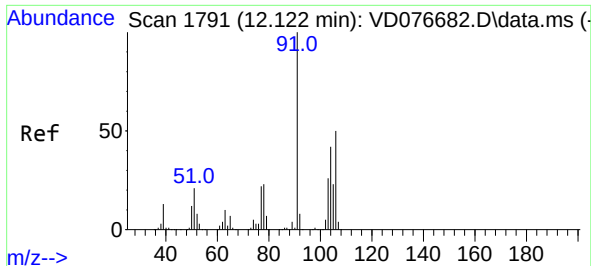
Tgt Ion: 91 Resp: 283
Ion Ratio Lower Upper
91 100
106 40.1 22.4 41.6



#53
m,p-Xylene
Concen: 1.528 ug/L
RT: 11.746 min Scan# 1727
Delta R.T. -0.047 min
Lab File: VD076696.D
Acq: 03 Jul 2023 16:55

Tgt Ion: 106 Resp: 142
Ion Ratio Lower Upper
106 100
91 177.7 141.5 262.9

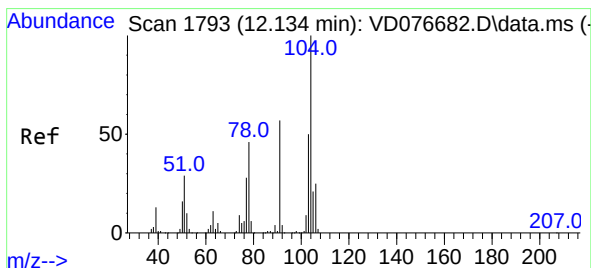
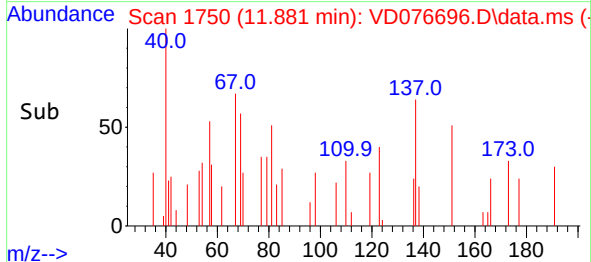
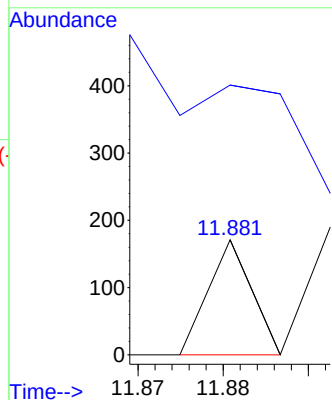
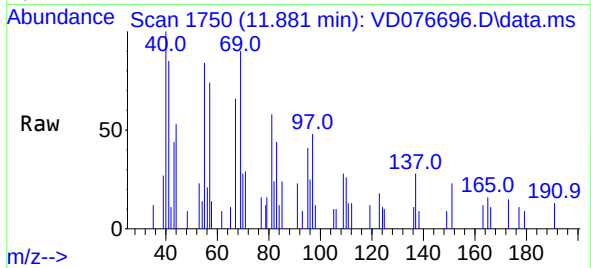




#54
o-Xylene
Concen: 0.678 ug/L
RT: 11.881 min Scan# 11
Delta R.T. -0.241 min
Lab File: VD076696.D
Acq: 03 Jul 2023 16:55

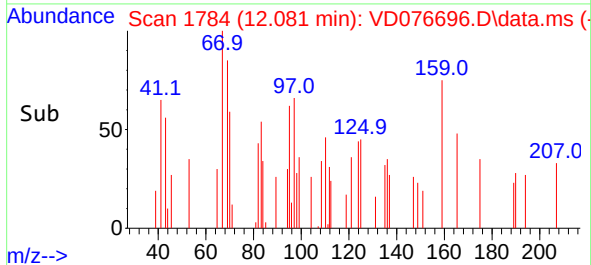
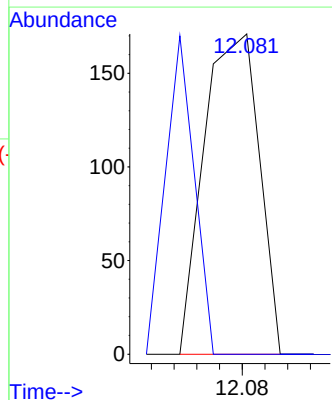
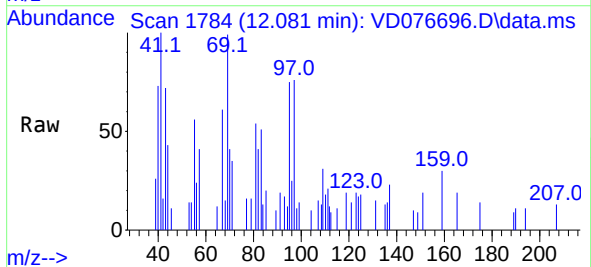
Instrument :
MSVOA_D
ClientSampleId :
A46T7RE

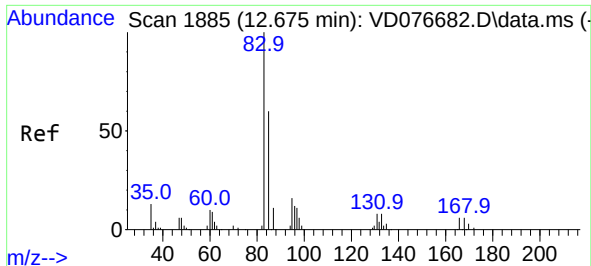
Tgt Ion:106 Resp: 60
Ion Ratio Lower Upper
106 100
91 234.5 142.2 264.2



#55
Styrene
Concen: 0.752 ug/L
RT: 12.081 min Scan# 1784
Delta R.T. -0.053 min
Lab File: VD076696.D
Acq: 03 Jul 2023 16:55

Tgt Ion:104 Resp: 115
Ion Ratio Lower Upper
104 100
78 0.0 31.3 58.1#

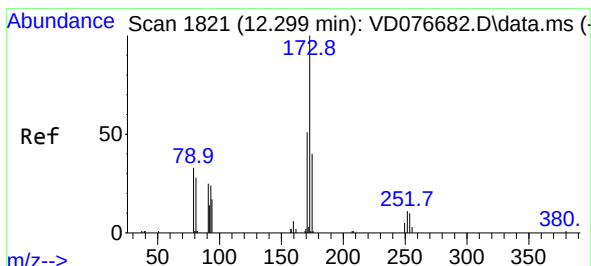
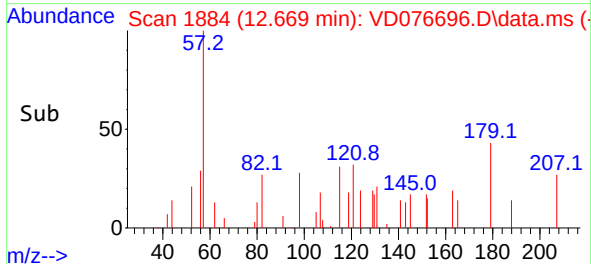
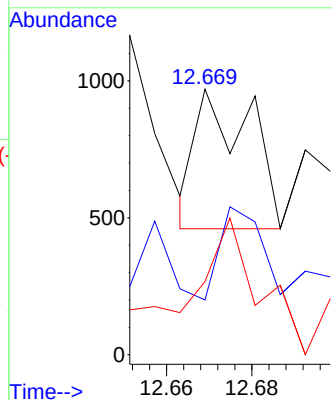
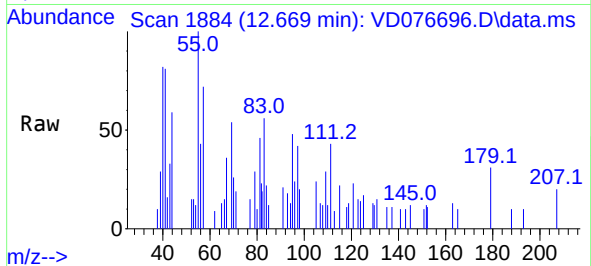




#57
1,1,2,2-Tetrachloroethane
Concen: 10.210 ug/L
RT: 12.669 min Scan# 1884
Delta R.T. -0.006 min
Lab File: VD076696.D
Acq: 03 Jul 2023 16:55

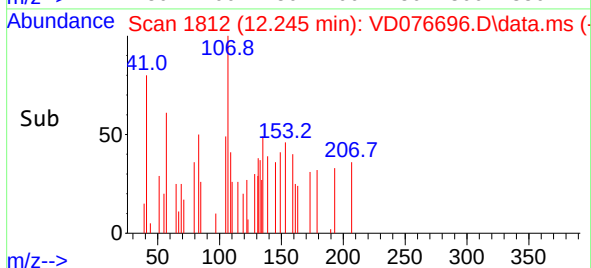
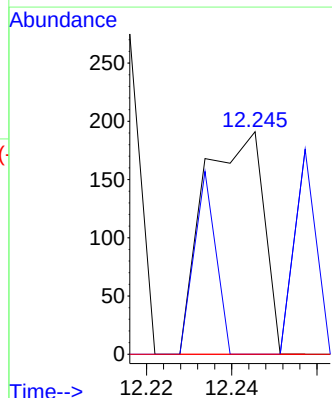
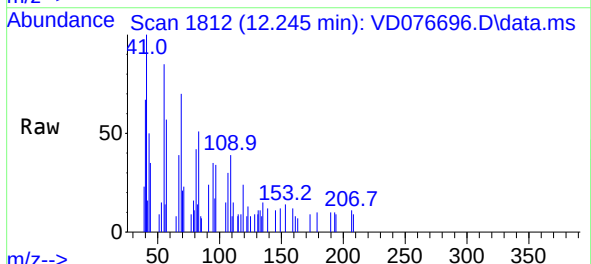
Instrument :
MSVOA_D
ClientSampleId :
A46T7RE

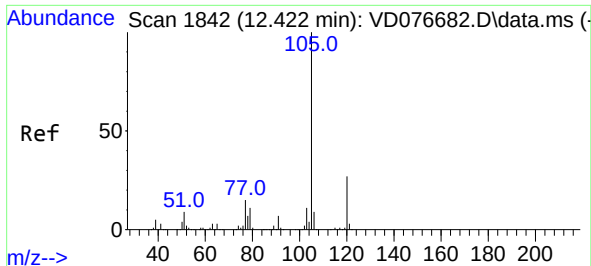
Tgt Ion: 83 Resp: 448
Ion Ratio Lower Upper
83 100
85 20.6 46.3 86.1#
131 27.5 7.0 10.4#



#59
Bromoform
Concen: 44.544 ug/L
RT: 12.245 min Scan# 1812
Delta R.T. -0.053 min
Lab File: VD076696.D
Acq: 03 Jul 2023 16:55

Tgt Ion: 173 Resp: 185
Ion Ratio Lower Upper
173 100
175 115.1 39.0 58.4#
254 0.0 5.3 7.9#

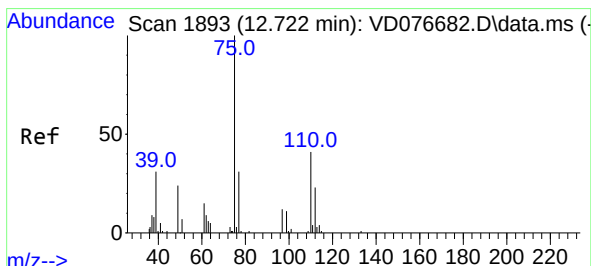
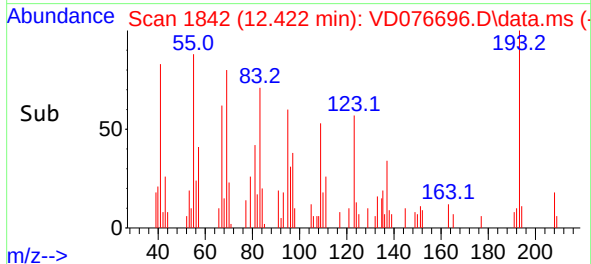
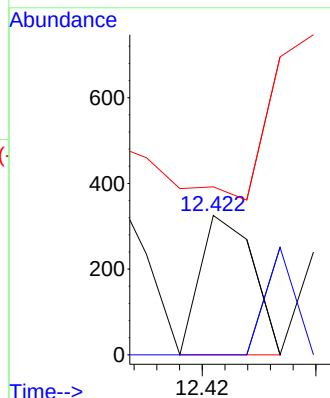
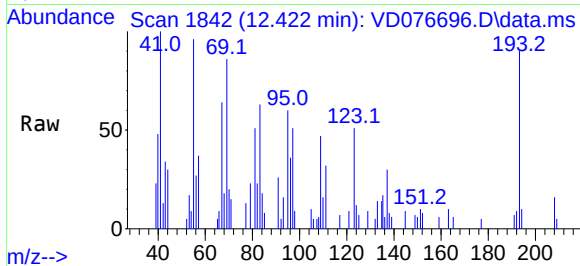




#60
Isopropylbenzene
Concen: 5.918 ug/L
RT: 12.422 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD076696.D
Acq: 03 Jul 2023 16:55

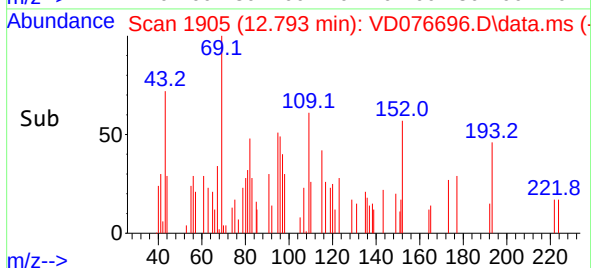
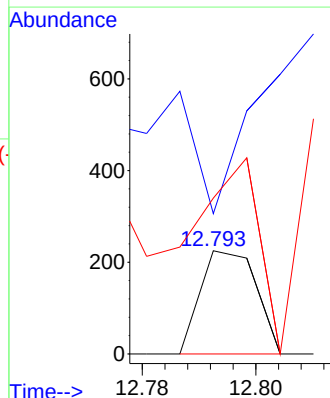
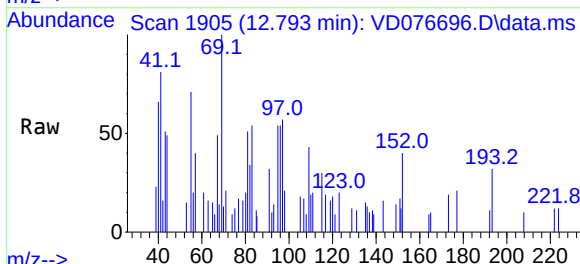
Instrument :
MSVOA_D
ClientSampleId :
A46T7RE

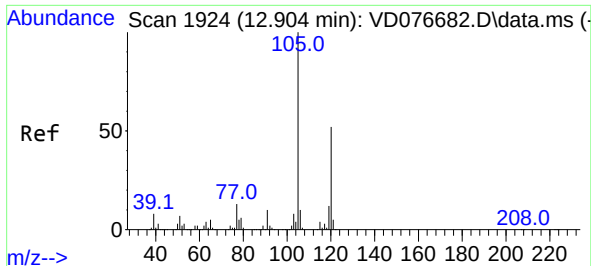
Tgt Ion:	105	Resp:	210
Ion	Ratio	Lower	Upper
105	100		
120	0.0	21.3	31.9#
77	272.4	12.2	18.4#



#61
1,2,3-Trichloropropane
Concen: 33.981 ug/L
RT: 12.793 min Scan# 1905
Delta R.T. 0.065 min
Lab File: VD076696.D
Acq: 03 Jul 2023 16:55

Tgt Ion:	75	Resp:	153
Ion	Ratio	Lower	Upper
75	100		
77	0.0	27.2	40.8#
110	230.7	31.8	47.6#

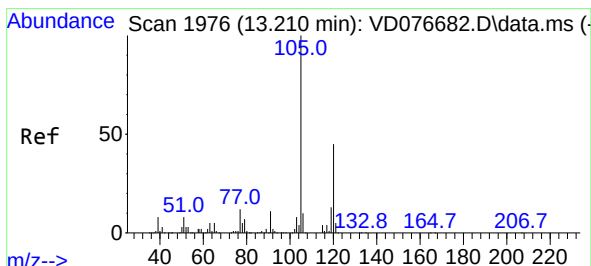
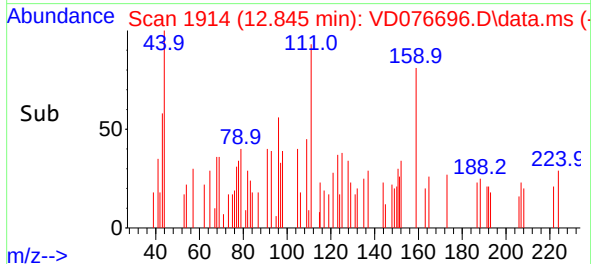
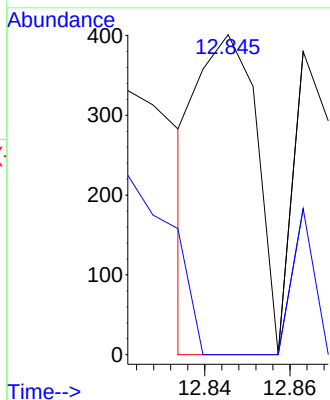
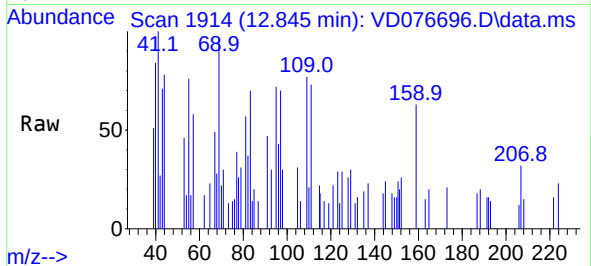




#62
1,3,5-Trimethylbenzene
Concen: 13.631 ug/L
RT: 12.845 min Scan# 1914
Delta R.T. -0.059 min
Lab File: VD076696.D
Acq: 03 Jul 2023 16:55

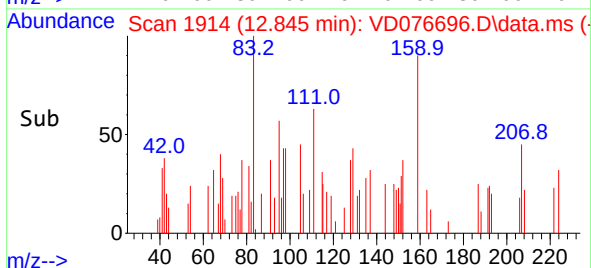
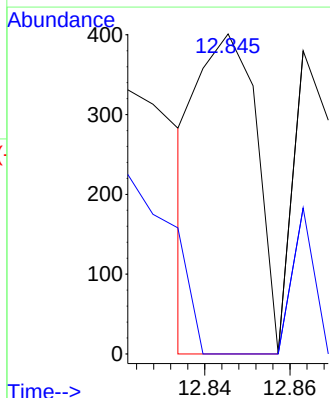
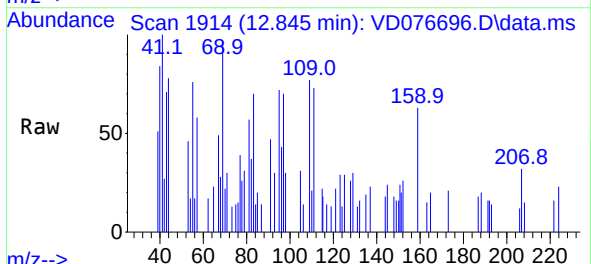
Instrument :
MSVOA_D
ClientSampleId :
A46T7RE

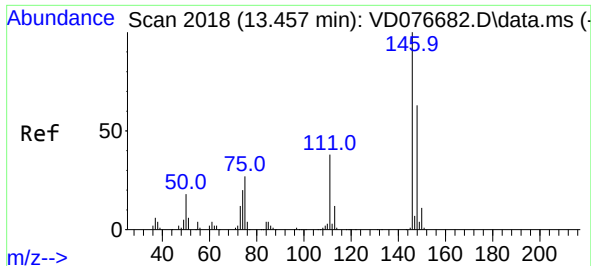
Tgt Ion:105 Resp: 387
Ion Ratio Lower Upper
105 100
120 50.9 39.8 59.6



#63
1,2,4-Trimethylbenzene
Concen: 13.813 ug/L
RT: 12.845 min Scan# 1914
Delta R.T. -0.365 min
Lab File: VD076696.D
Acq: 03 Jul 2023 16:55

Tgt Ion:105 Resp: 387
Ion Ratio Lower Upper
105 100
120 50.9 37.5 56.3

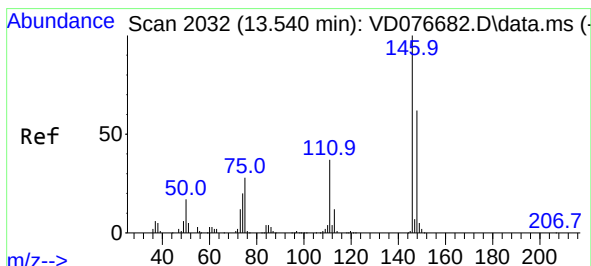
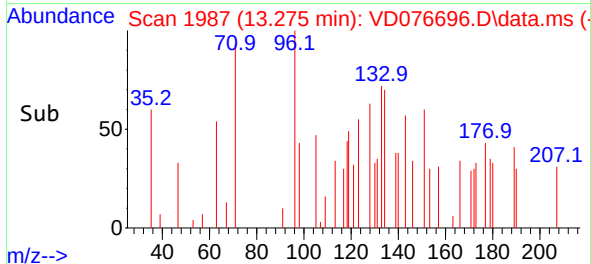
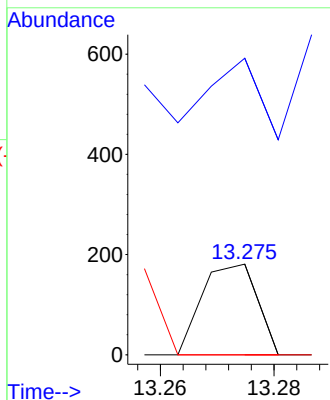
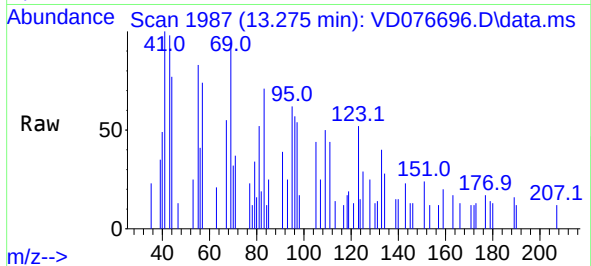




#64
1,3-Dichlorobenzene
Concen: 7.728 ug/L
RT: 13.275 min Scan# 1987
Delta R.T. -0.182 min
Lab File: VD076696.D
Acq: 03 Jul 2023 16:55

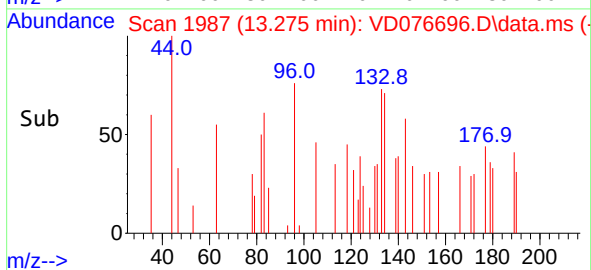
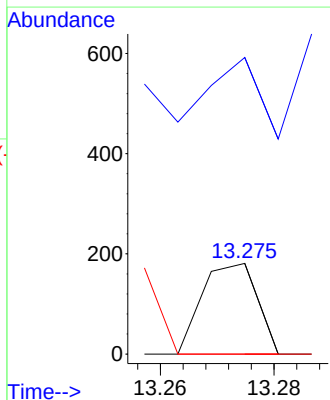
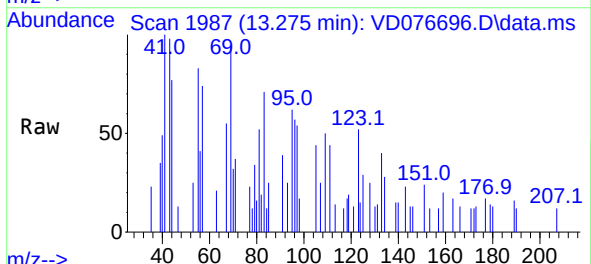
Instrument :
MSVOA_D
ClientSampleId :
A46T7RE

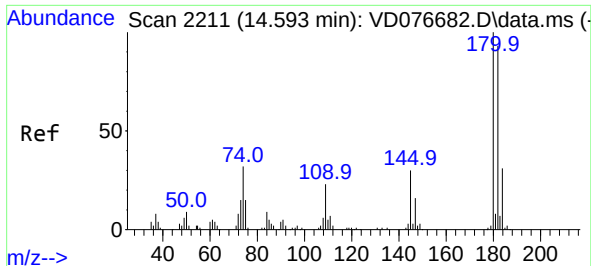
Tgt Ion:146 Resp: 122
Ion Ratio Lower Upper
146 100
111 327.1 25.6 47.4#
148 0.0 44.3 82.3#



#65
1,4-Dichlorobenzene
Concen: 7.666 ug/L
RT: 13.275 min Scan# 1987
Delta R.T. -0.265 min
Lab File: VD076696.D
Acq: 03 Jul 2023 16:55

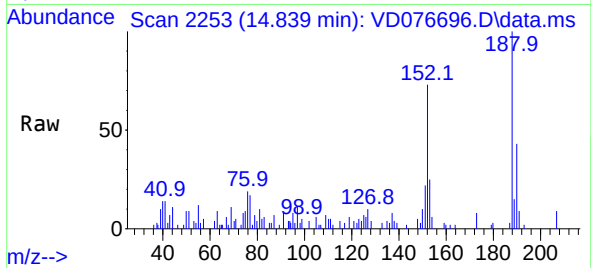
Tgt Ion:146 Resp: 122
Ion Ratio Lower Upper
146 100
111 327.1 25.7 47.7#
148 0.0 45.4 84.2#





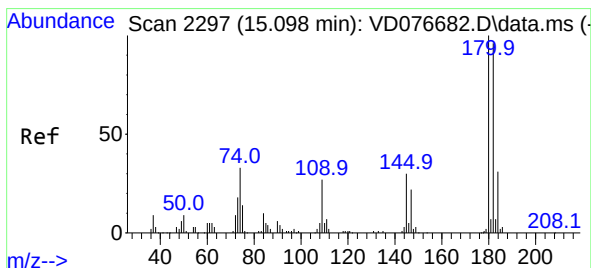
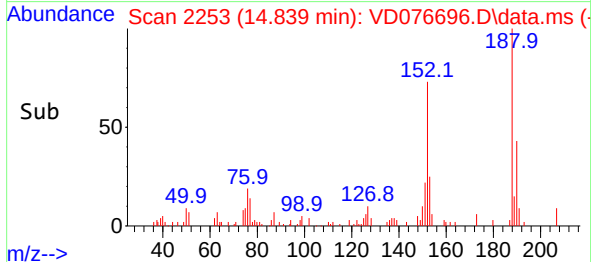
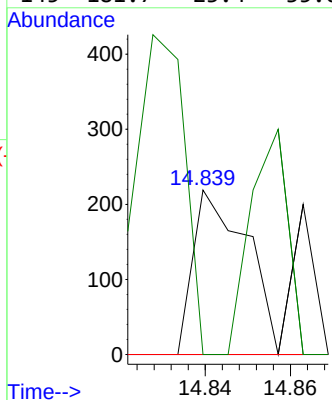
#69
1,3,5-Trichlorobenzene
Concen: 18.139 ug/L
RT: 14.839 min Scan# 211
Delta R.T. 0.247 min
Lab File: VD076696.D
Acq: 03 Jul 2023 16:55

Instrument :
MSVOA_D
ClientSampleId :
A46T7RE



Tgt Ion:180 Resp: 191

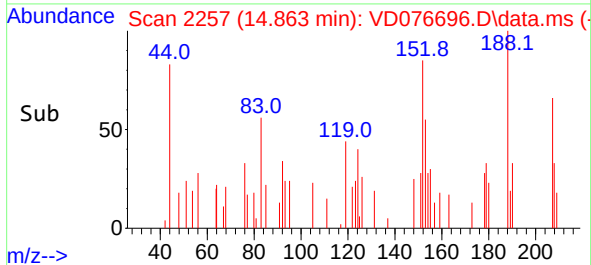
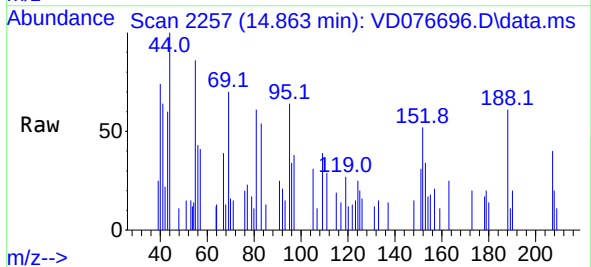
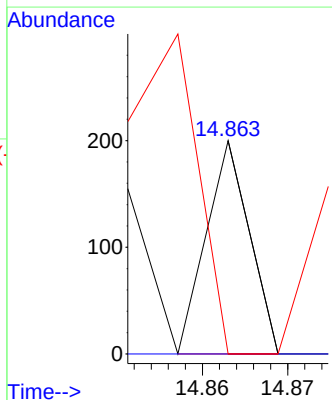
Ion	Ratio	Lower	Upper
180	100		
182	0.0	77.1	115.7#
184	0.0	25.0	37.4#
145	181.7	23.4	35.0#

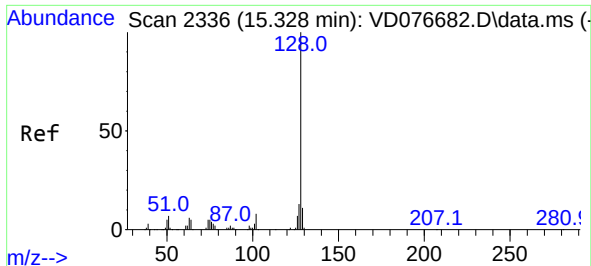


#70
1,2,4-trichlorobenzene
Concen: 7.578 ug/L
RT: 14.863 min Scan# 2257
Delta R.T. -0.235 min
Lab File: VD076696.D
Acq: 03 Jul 2023 16:55

Tgt Ion:180 Resp: 71

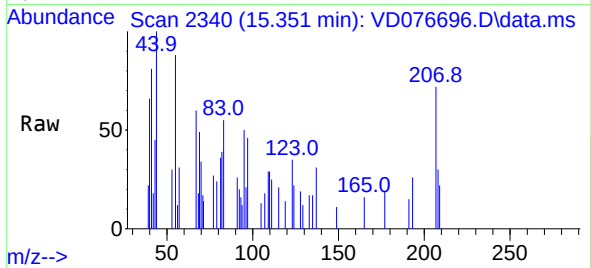
Ion	Ratio	Lower	Upper
180	100		
182	0.0	76.9	115.3#
145	257.7	23.5	35.3#





#71
Naphthalene
Concen: 12.599 ug/L
RT: 15.351 min Scan# 21
Delta R.T. 0.018 min
Lab File: VD076696.D
Acq: 03 Jul 2023 16:55

Instrument :
MSVOA_D
ClientSampleId :
A46T7RE



Tgt Ion:128 Resp: 226
Ion Ratio Lower Upper
128 100
127 0.0 10.8 16.2#
129 40.3 8.6 12.8#

