

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031822\
 Data File : VN071377.D
 Acq On : 18 Mar 2022 17:06
 Operator : JC\MD
 Sample : PB143438TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 19 07:09:26 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N030722W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 08 06:52:46 2022
 Response via : Initial Calibration

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

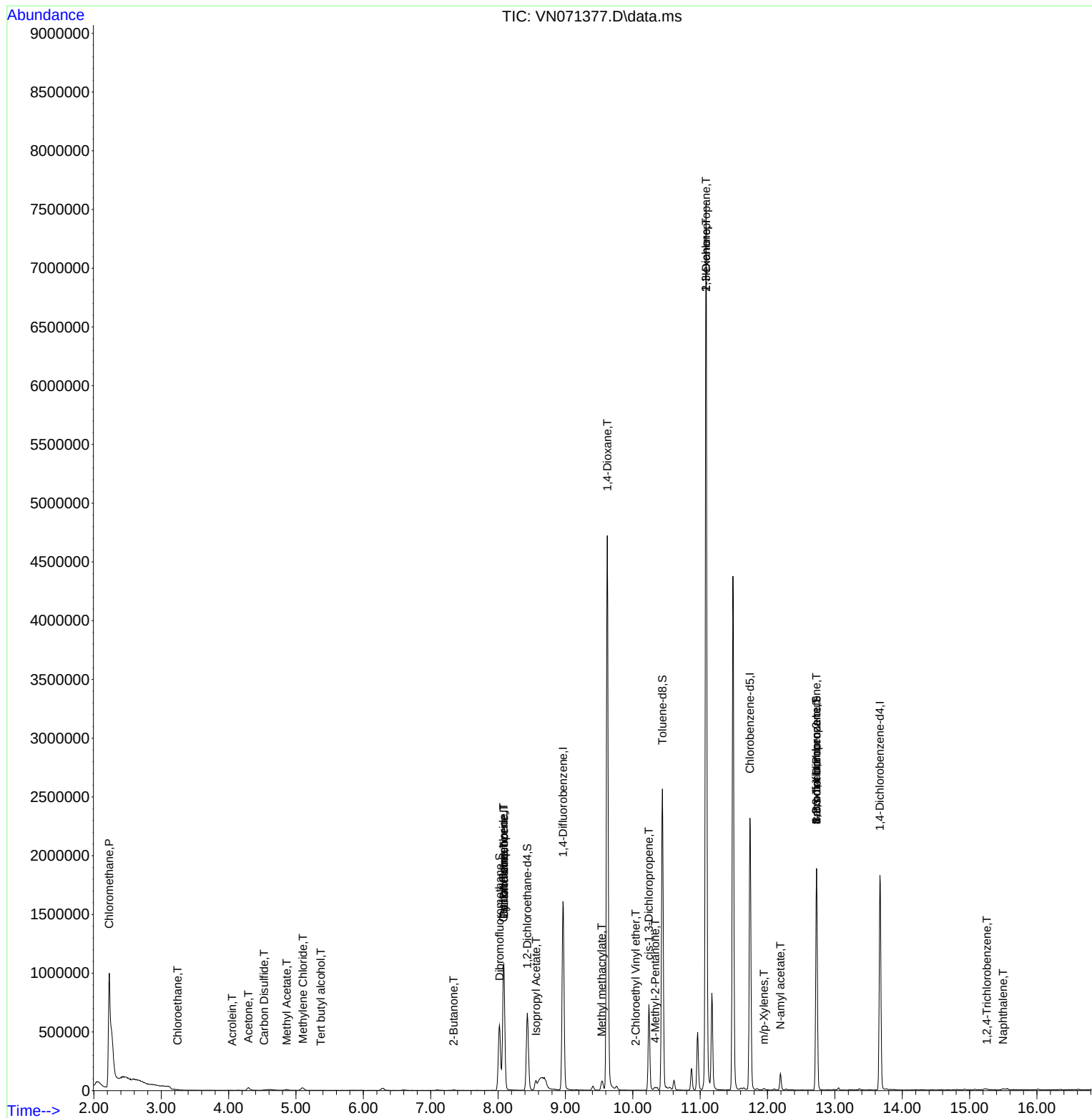
Internal Standards						
1) Pentafluorobenzene	8.087	168	826034	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	1398085	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	1331065	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.669	152	498976	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.434	65	540193	47.716	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	95.440%
35) Dibromofluoromethane	8.022	113	411133	46.601	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	93.200%
50) Toluene-d8	10.439	98	1753916	49.376	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.760%
62) 4-Bromofluorobenzene	12.727	95	647907	53.864	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	107.720%
Target Compounds						
					Qvalue	
3) Chloromethane	2.228	50	53624	4.381	ug/l #	43
5) Bromomethane	2.857	94	1028	Below Cal	#	77
6) Chloroethane	3.240	64	1679	0.250	ug/l #	42
11) Tert butyl alcohol	5.369	59	653	0.294	ug/l #	71
13) Acrolein	4.052	56	610	0.259	ug/l #	42
16) Acetone	4.293	43	43061	7.817	ug/l #	86
17) Carbon Disulfide	4.528	76	8253	0.350	ug/l #	74
18) Methyl Acetate	4.863	43	15069	1.479	ug/l	94
20) Methylene Chloride	5.104	84	17298	2.087	ug/l #	83
25) 2-Butanone	7.340	43	8289	0.934	ug/l	91
31) Cyclohexane	8.087	56	18841	1.042	ug/l #	1
36) 1,1-Dichloropropene	8.087	75	66155	4.680	ug/l #	49
38) Carbon Tetrachloride	8.081	117	80515	5.889	ug/l #	16
43) Isopropyl Acetate	8.563	43	107628	3.700	ug/l #	85
48) Methyl methacrylate	9.539	41	22700	1.684	ug/l #	8
49) 1,4-Dioxane	9.622	88	525	2.240	ug/l #	1
51) 4-Methyl-2-Pentanone	10.334	43	14962	0.829	ug/l	88
54) cis-1,3-Dichloropropene	10.239	75	126973	7.413	ug/l #	59
57) 1,3-Dichloropropane	11.086	76	78118	4.141	ug/l #	43
58) 2-Chloroethyl Vinyl ether	10.045	63	57	27.879	ug/l #	45
59) 2-Hexanone	11.086	43	1212460	98.425	ug/l #	49
68) m/p-Xylenes	11.945	106	4142	0.224	ug/l	99
71) Bromoform	12.727	173	3873	0.487	ug/l #	1
74) N-amyl acetate	12.192	43	45364	2.508	ug/l #	54
75) 1,1,2,2-Tetrachloroethane	12.833	83	129	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.727	75	339752	26.783	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.727	75	339752	73.605	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.257	180	139	3.005	ug/l #	36
95) Naphthalene	15.498	128	9586	5.444	ug/l	96

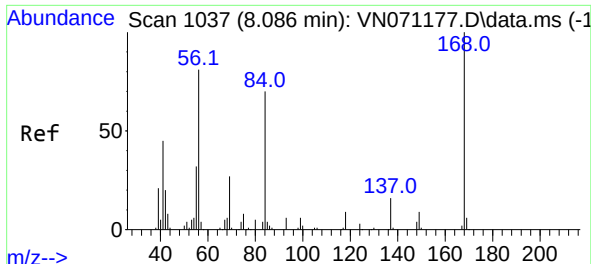
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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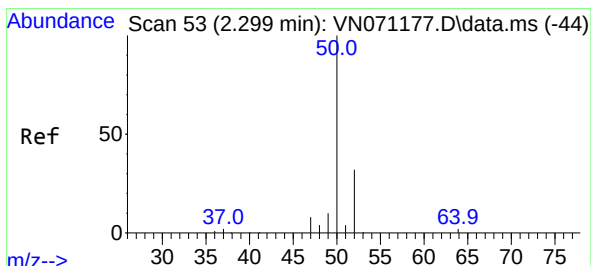
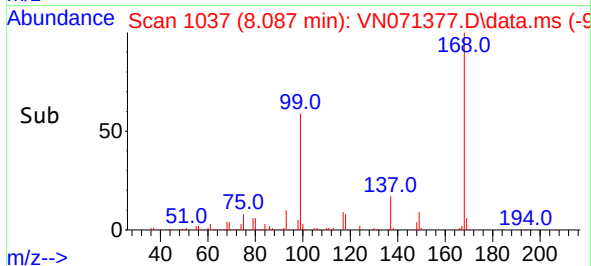
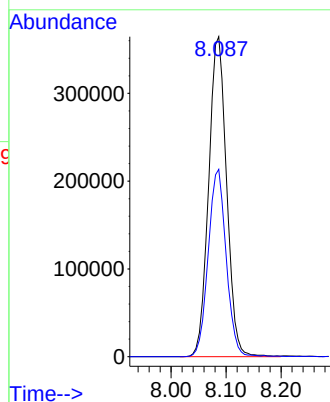
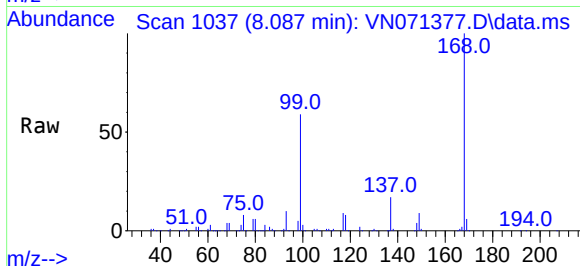




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.087 min Scan# 10
Delta R.T. 0.001 min
Lab File: VN071377.D
Acq: 18 Mar 2022 17:06

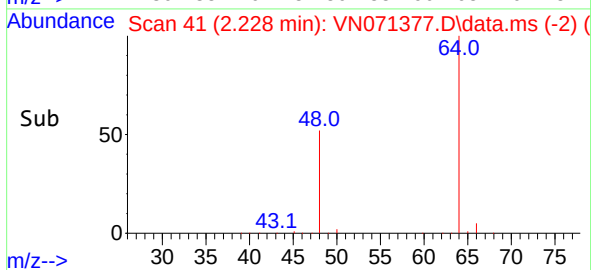
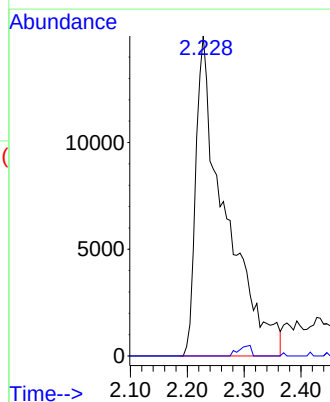
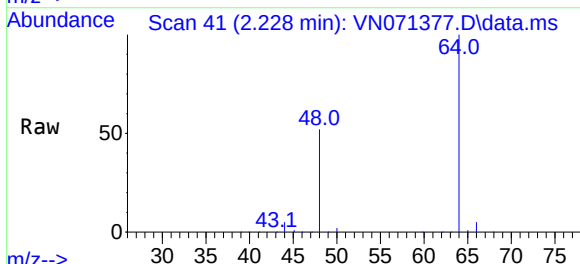
Instrument :
MSVOA_N
ClientSampleId :

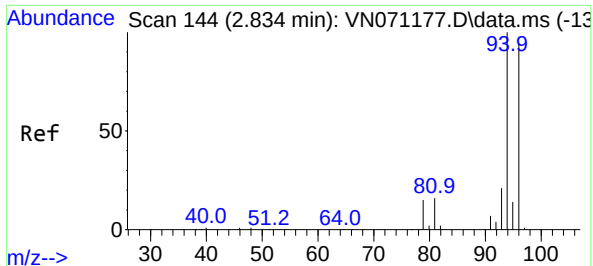
Tgt Ion:168 Resp: 826034
Ion Ratio Lower Upper
168 100
99 58.6 41.3 61.9



#3
Chloromethane
Concen: 4.381 ug/l
RT: 2.228 min Scan# 41
Delta R.T. -0.071 min
Lab File: VN071377.D
Acq: 18 Mar 2022 17:06

Tgt Ion: 50 Resp: 53624
Ion Ratio Lower Upper
50 100
52 0.0 25.4 38.0#

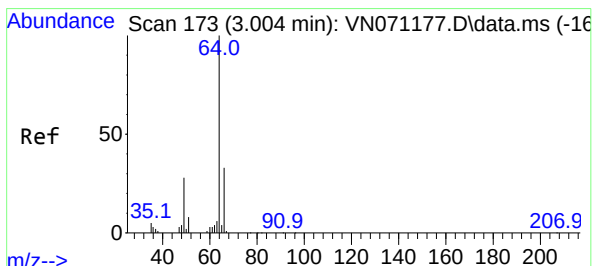
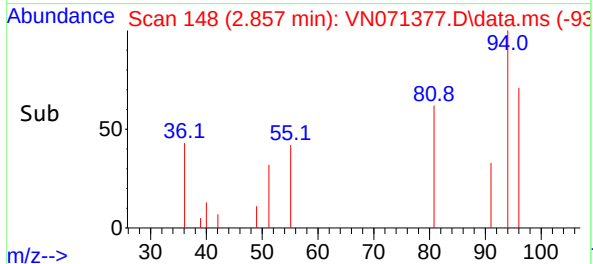
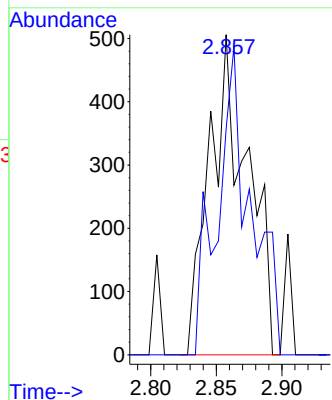
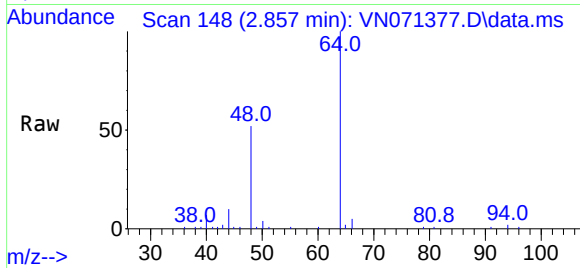




#5
Bromomethane
Concen: Below Cal
RT: 2.857 min Scan# 14
Delta R.T. 0.023 min
Lab File: VN071377.D
Acq: 18 Mar 2022 17:06

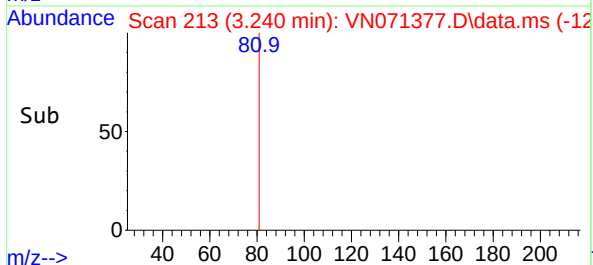
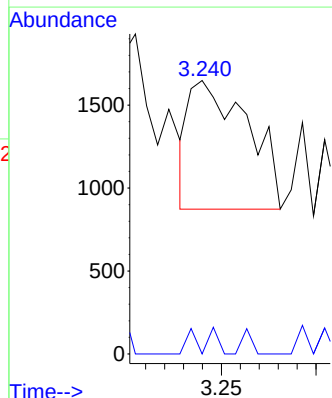
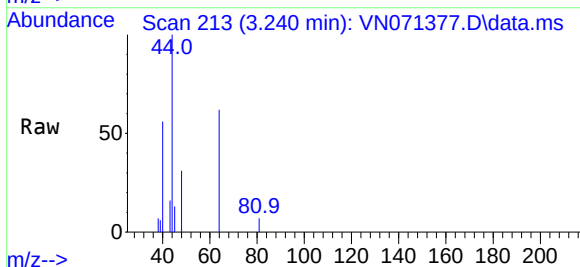
Instrument :
MSVOA_N
ClientSampleId :

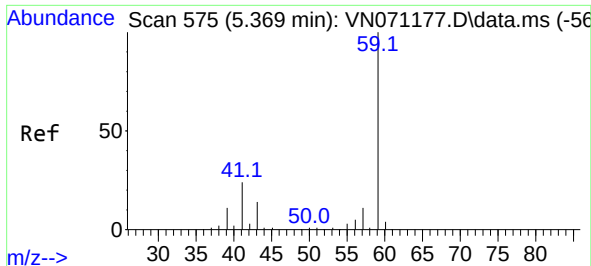
Tgt Ion: 94 Resp: 1028
Ion Ratio Lower Upper
94 100
96 70.6 73.8 110.8#



#6
Chloroethane
Concen: 0.250 ug/l
RT: 3.240 min Scan# 213
Delta R.T. 0.236 min
Lab File: VN071377.D
Acq: 18 Mar 2022 17:06

Tgt Ion: 64 Resp: 1679
Ion Ratio Lower Upper
64 100
66 0.0 26.3 39.5#

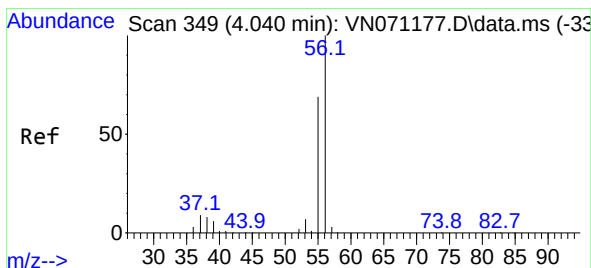
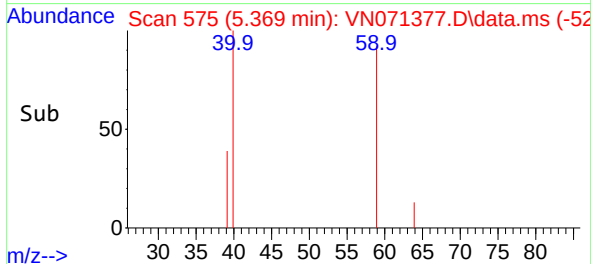
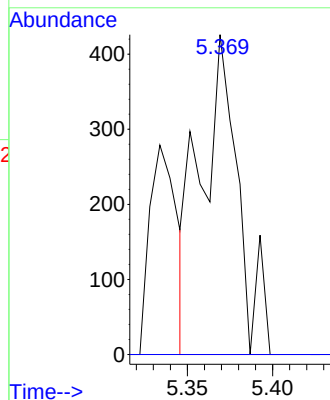
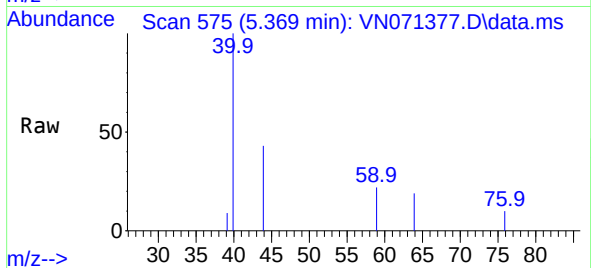




#11
Tert butyl alcohol
Concen: 0.294 ug/l
RT: 5.369 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN071377.D
Acq: 18 Mar 2022 17:06

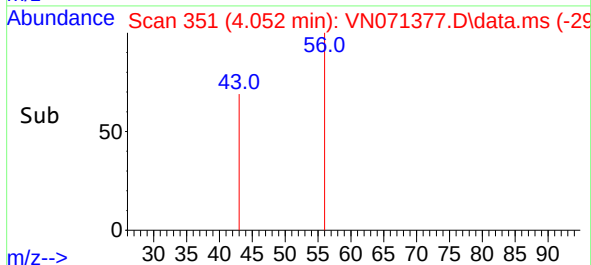
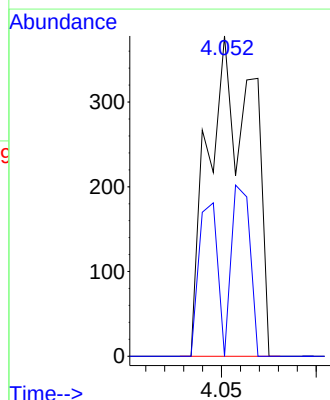
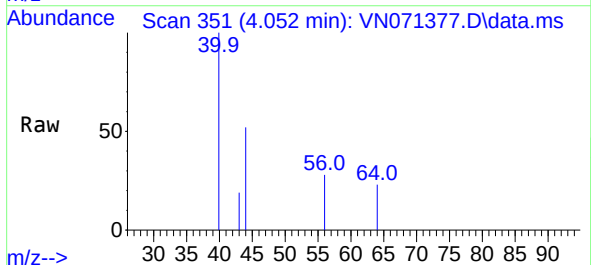
Instrument :
MSVOA_N
ClientSampleId :

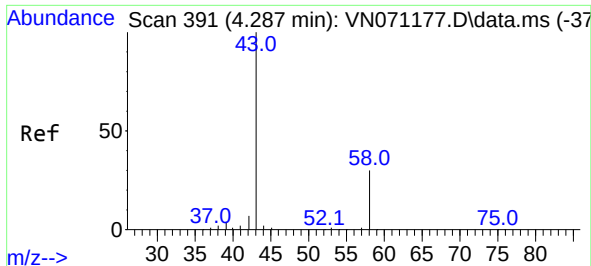
Tgt Ion: 59 Resp: 653
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#



#13
Acrolein
Concen: 0.259 ug/l
RT: 4.052 min Scan# 351
Delta R.T. 0.012 min
Lab File: VN071377.D
Acq: 18 Mar 2022 17:06

Tgt Ion: 56 Resp: 610
Ion Ratio Lower Upper
56 100
55 22.6 56.6 85.0#

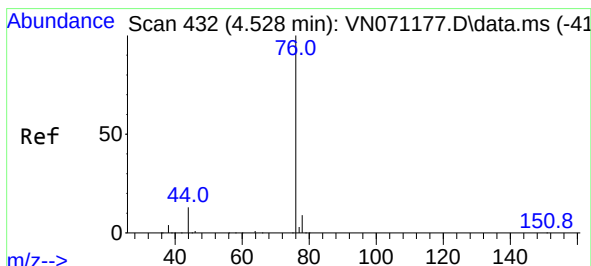
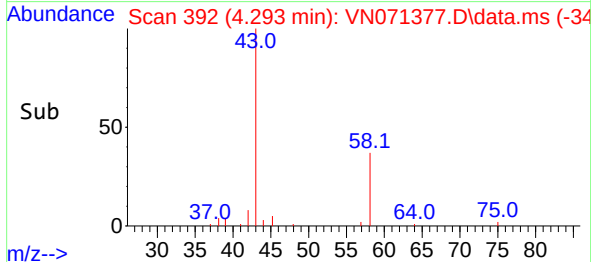
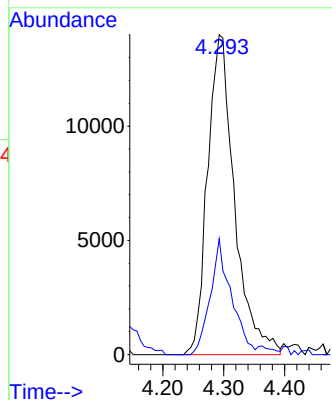
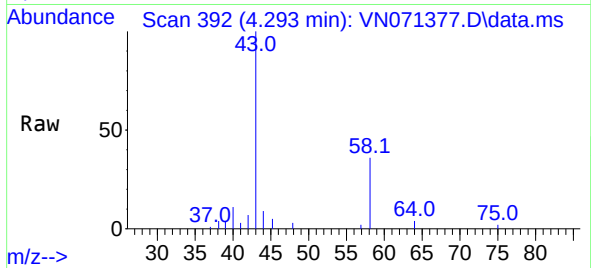




#16
Acetone
Concen: 7.817 ug/l
RT: 4.293 min Scan# 391
Delta R.T. 0.006 min
Lab File: VN071377.D
Acq: 18 Mar 2022 17:06

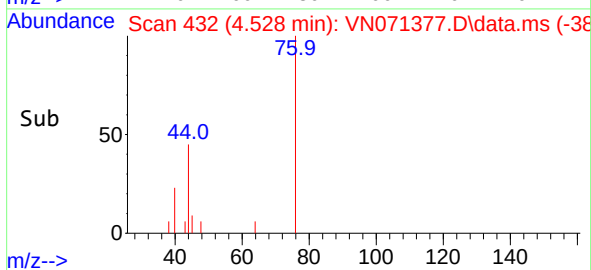
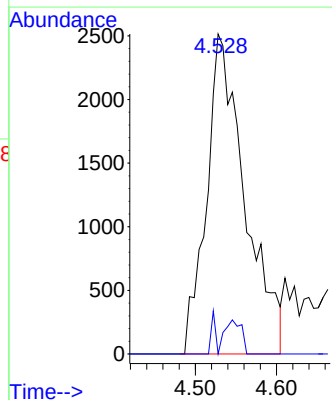
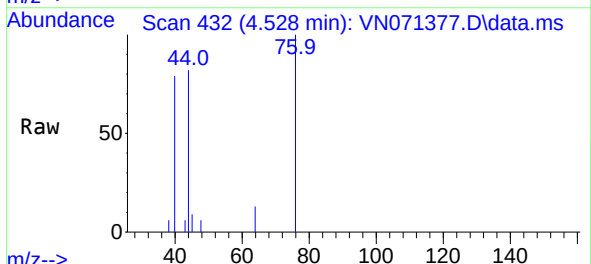
Instrument :
MSVOA_N
ClientSampleId :

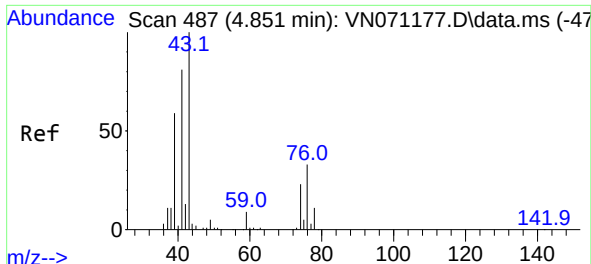
Tgt Ion: 43 Resp: 43061
Ion Ratio Lower Upper
43 100
58 36.2 23.1 34.7#



#17
Carbon Disulfide
Concen: 0.350 ug/l
RT: 4.528 min Scan# 432
Delta R.T. 0.000 min
Lab File: VN071377.D
Acq: 18 Mar 2022 17:06

Tgt Ion: 76 Resp: 8253
Ion Ratio Lower Upper
76 100
78 0.0 7.5 11.3#

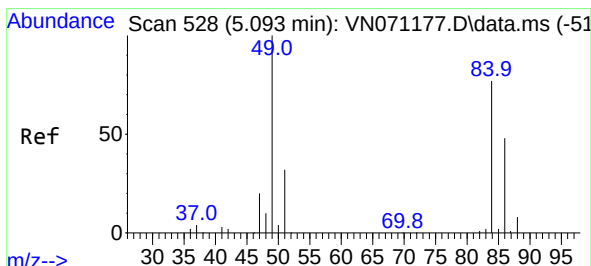
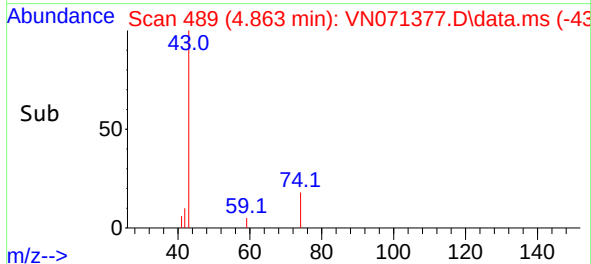
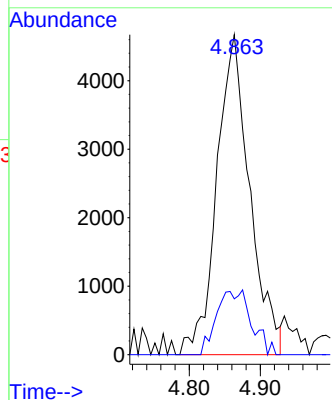
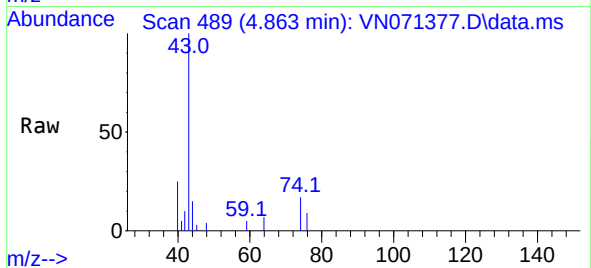




#18
Methyl Acetate
Concen: 1.479 ug/l
RT: 4.863 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN071377.D
Acq: 18 Mar 2022 17:06

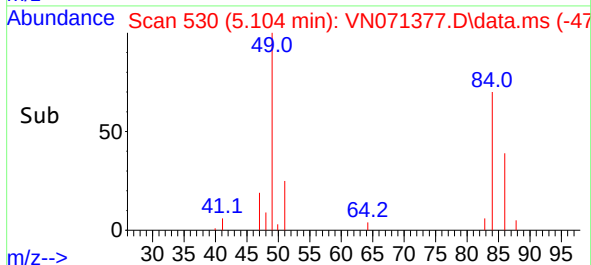
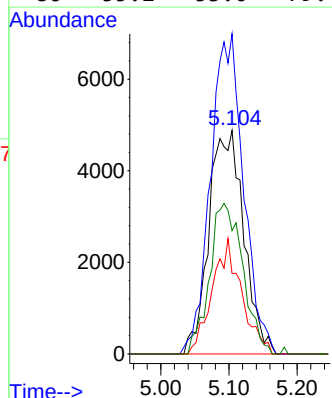
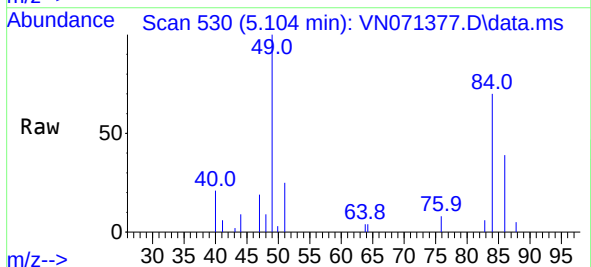
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MSVOA_N
ClientSampleId :

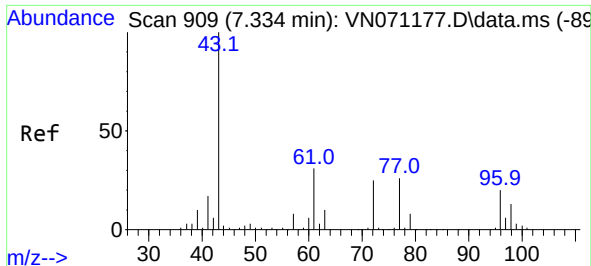
Tgt Ion: 43 Resp: 15069
Ion Ratio Lower Upper
43 100
74 21.2 19.4 29.2



#20
Methylene Chloride
Concen: 2.087 ug/l
RT: 5.104 min Scan# 530
Delta R.T. 0.011 min
Lab File: VN071377.D
Acq: 18 Mar 2022 17:06

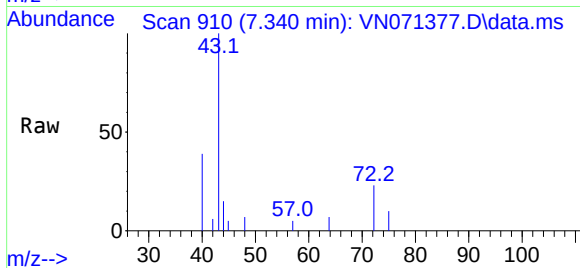
Tgt Ion: 84 Resp: 17298
Ion Ratio Lower Upper
84 100
49 143.1 93.5 140.3#
51 36.0 29.4 44.2
86 55.2 53.0 79.4



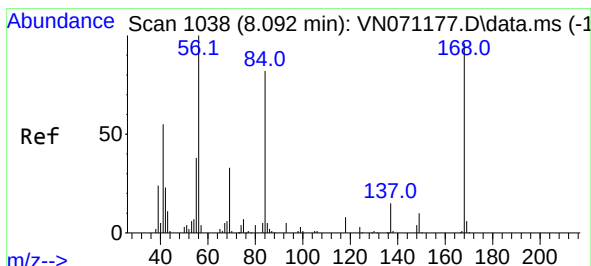
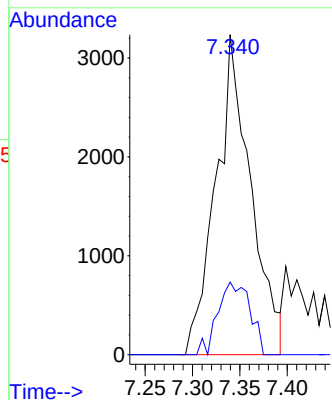
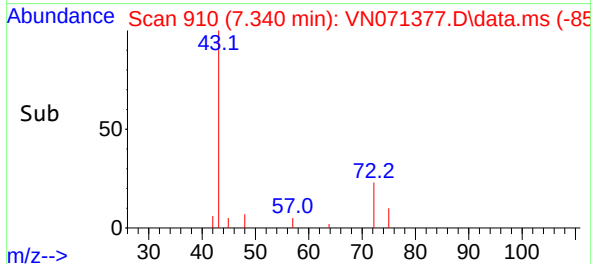


#25
2-Butanone
Concen: 0.934 ug/l
RT: 7.340 min Scan# 910
Delta R.T. 0.006 min
Lab File: VN071377.D
Acq: 18 Mar 2022 17:06

Instrument :
MSVOA_N
ClientSampleId :

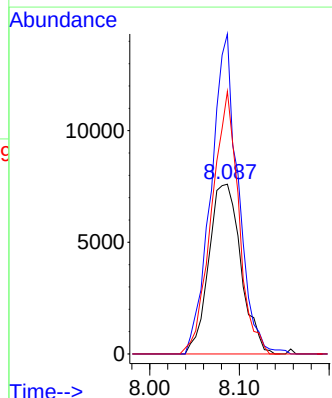
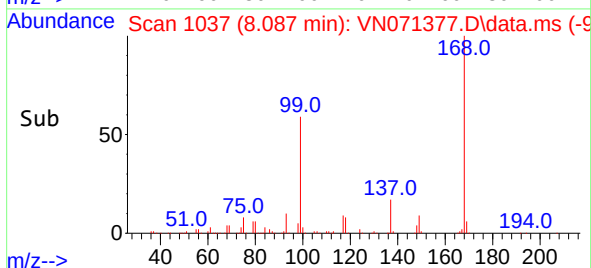
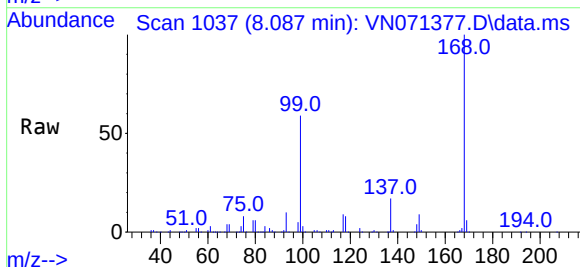


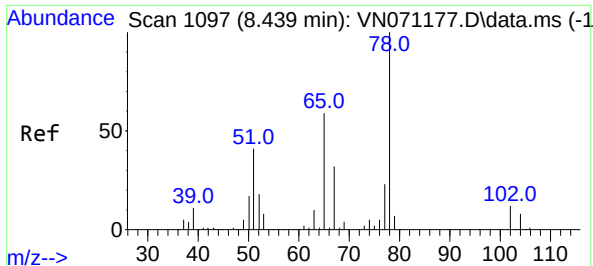
Tgt Ion: 43 Resp: 8289
Ion Ratio Lower Upper
43 100
72 22.7 21.7 32.5



#31
Cyclohexane
Concen: 1.042 ug/l
RT: 8.087 min Scan# 1037
Delta R.T. -0.006 min
Lab File: VN071377.D
Acq: 18 Mar 2022 17:06

Tgt Ion: 56 Resp: 18841
Ion Ratio Lower Upper
56 100
69 188.4 27.1 40.7#
84 154.6 73.4 110.0#





#33

1,2-Dichloroethane-d4

Concen: 47.716 ug/l

RT: 8.434 min Scan# 1096

Delta R.T. -0.006 min

Lab File: VN071377.D

Acq: 18 Mar 2022 17:06

Instrument :

MSVOA_N

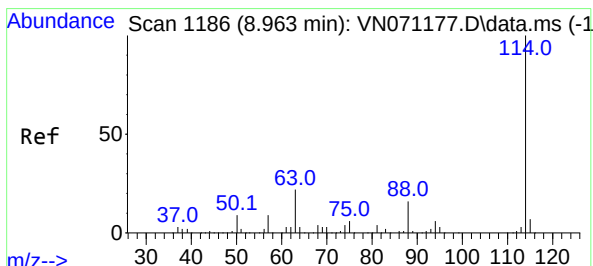
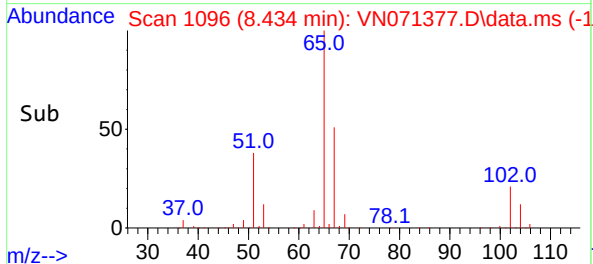
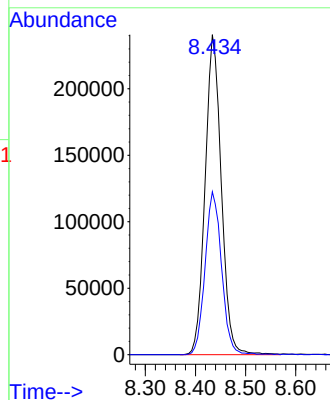
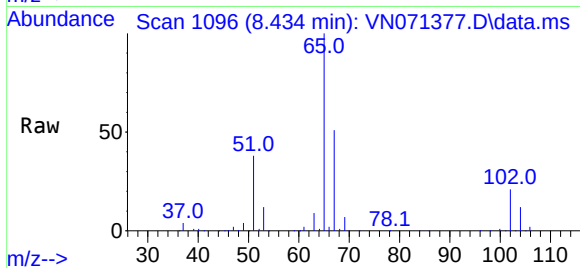
ClientSampleId :

Tgt Ion: 65 Resp: 540193

Ion Ratio Lower Upper

65 100

67 51.9 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.963 min Scan# 1186

Delta R.T. 0.000 min

Lab File: VN071377.D

Acq: 18 Mar 2022 17:06

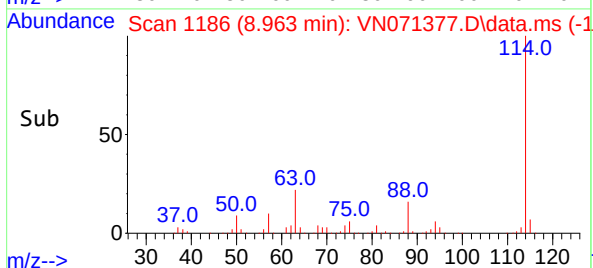
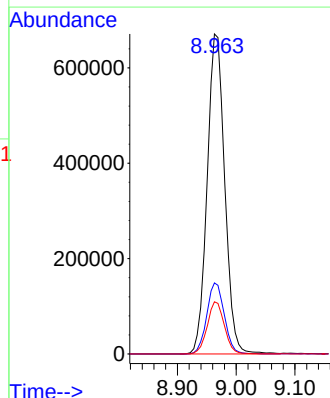
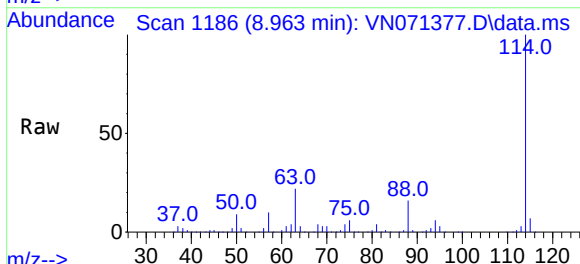
Tgt Ion: 114 Resp: 1398085

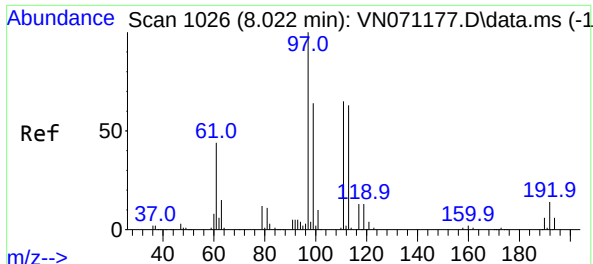
Ion Ratio Lower Upper

114 100

63 22.2 0.0 37.8

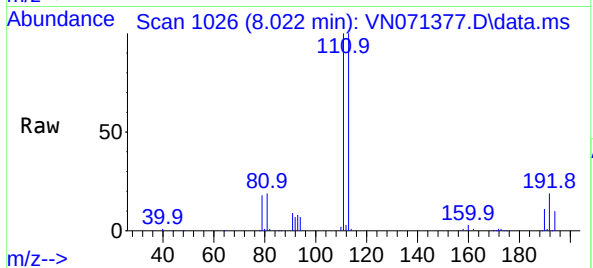
88 16.3 0.0 27.4



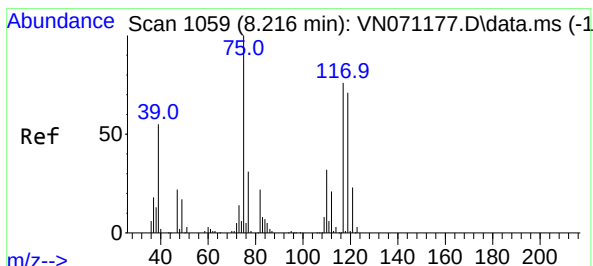
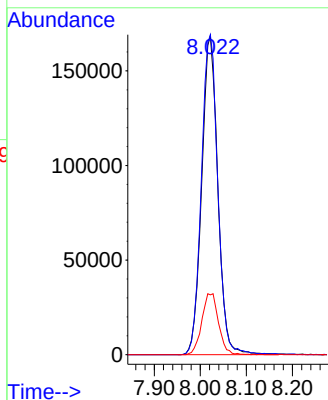
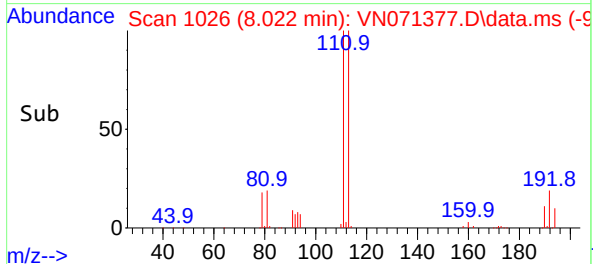


#35
Dibromofluoromethane
Concen: 46.601 ug/l
RT: 8.022 min Scan# 1037
Delta R.T. 0.000 min
Lab File: VN071377.D
Acq: 18 Mar 2022 17:06

Instrument :
MSVOA_N
ClientSampleId :

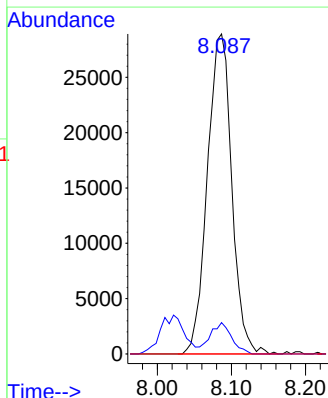
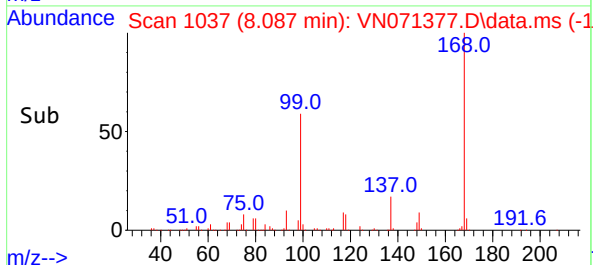
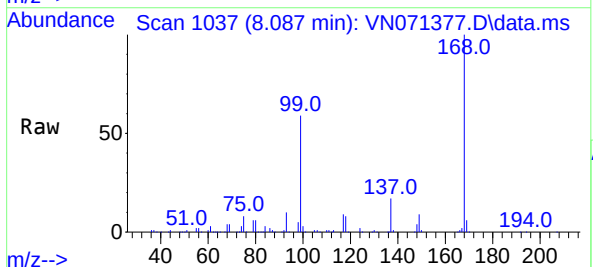


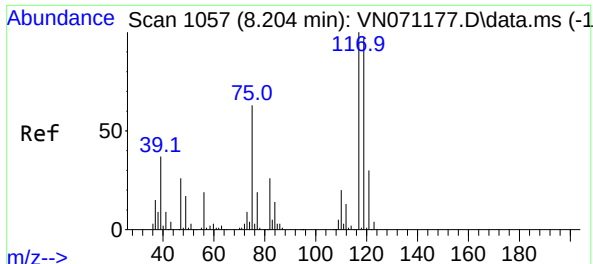
Tgt Ion:113 Resp: 411133
Ion Ratio Lower Upper
113 100
111 102.3 82.2 123.2
192 19.8 16.9 25.3



#36
1,1-Dichloropropene
Concen: 4.680 ug/l
RT: 8.087 min Scan# 1037
Delta R.T. -0.129 min
Lab File: VN071377.D
Acq: 18 Mar 2022 17:06

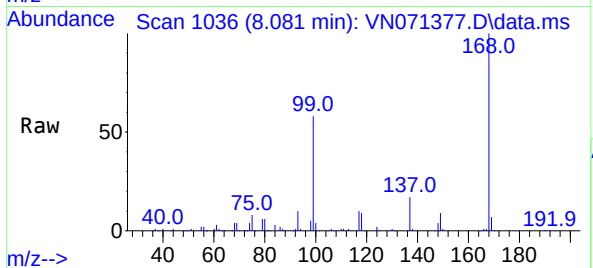
Tgt Ion: 75 Resp: 66155
Ion Ratio Lower Upper
75 100
110 8.9 18.4 55.2#
77 0.0 24.4 36.6#



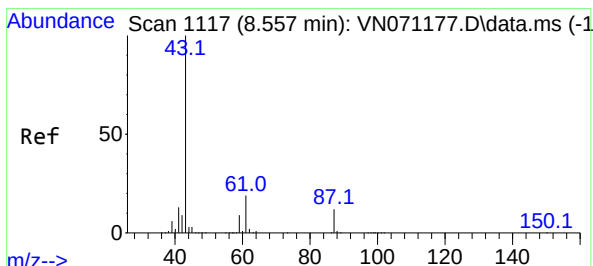
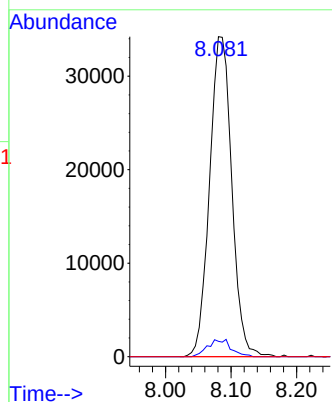
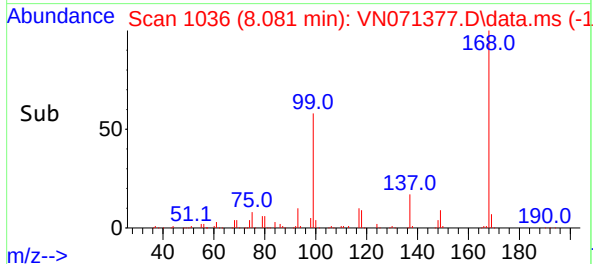


#38
Carbon Tetrachloride
Concen: 5.889 ug/l
RT: 8.081 min Scan# 1107
Delta R.T. -0.123 min
Lab File: VN071377.D
Acq: 18 Mar 2022 17:06

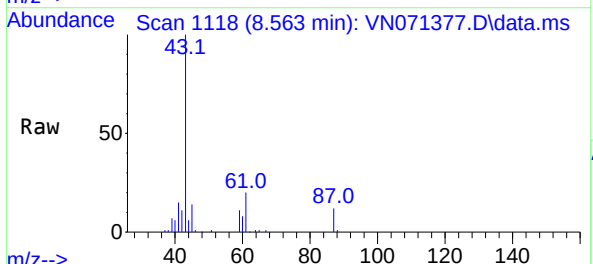
Instrument :
MSVOA_N
ClientSampleId :



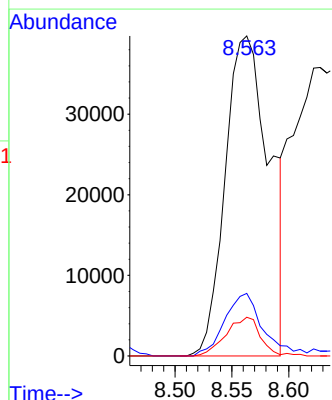
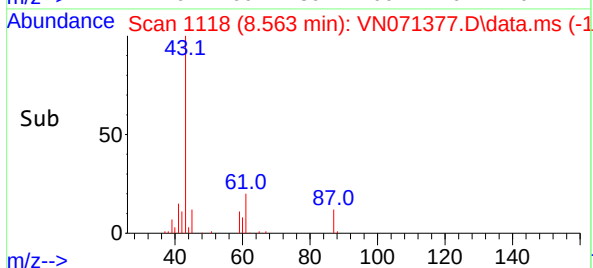
Tgt Ion:117 Resp: 80515
Ion Ratio Lower Upper
117 100
119 4.8 76.1 114.1#
121 0.0 24.2 36.2#

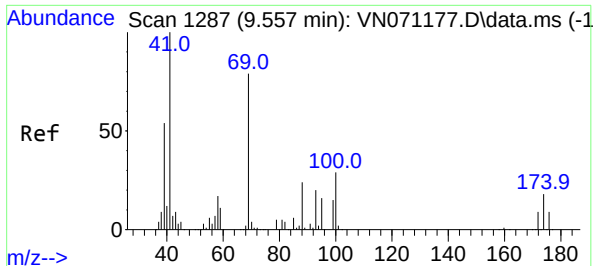


#43
Isopropyl Acetate
Concen: 3.700 ug/l
RT: 8.563 min Scan# 1118
Delta R.T. 0.006 min
Lab File: VN071377.D
Acq: 18 Mar 2022 17:06



Tgt Ion: 43 Resp: 107628
Ion Ratio Lower Upper
43 100
61 16.9 20.4 30.6#
87 9.5 11.2 16.8#





#48

Methyl methacrylate

Concen: 1.684 ug/l

RT: 9.539 min Scan# 1284

Delta R.T. -0.018 min

Lab File: VN071377.D

Acq: 18 Mar 2022 17:06

Instrument :

MSVOA_N

ClientSampleId :

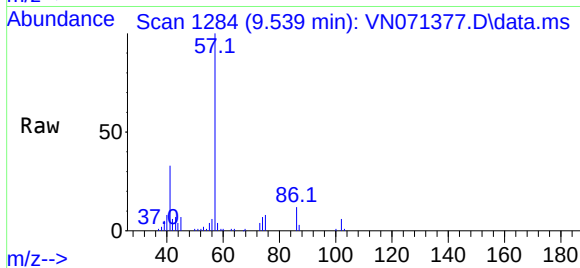
Tgt Ion: 41 Resp: 22700

Ion Ratio Lower Upper

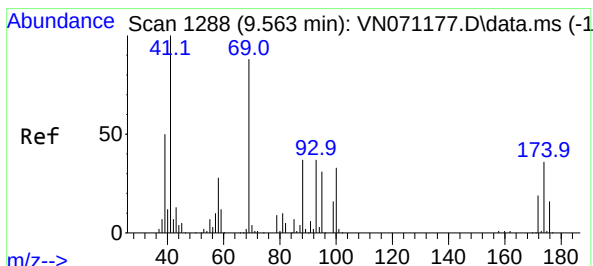
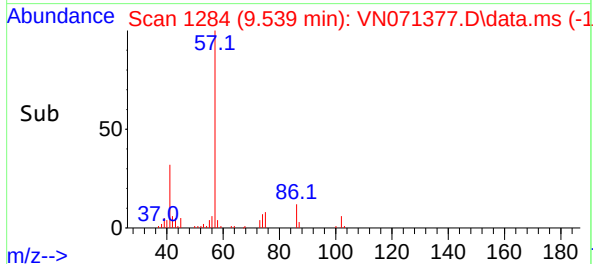
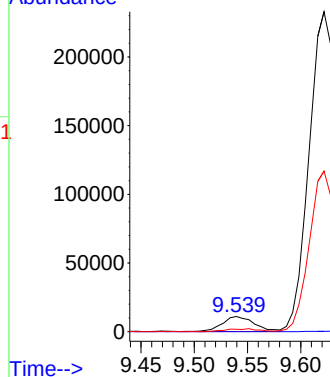
41 100

69 0.0 72.4 108.6#

39 0.0 58.4 87.6#



Abundance



#49

1,4-Dioxane

Concen: 2.240 ug/l

RT: 9.622 min Scan# 1298

Delta R.T. 0.059 min

Lab File: VN071377.D

Acq: 18 Mar 2022 17:06

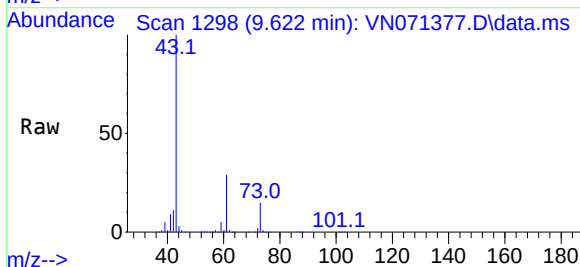
Tgt Ion: 88 Resp: 525

Ion Ratio Lower Upper

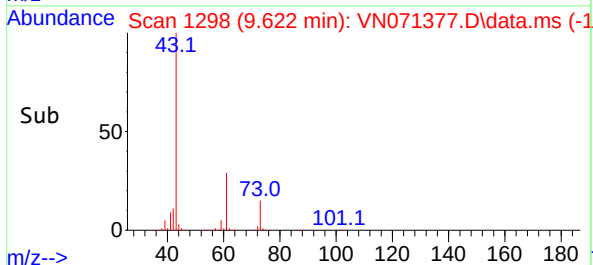
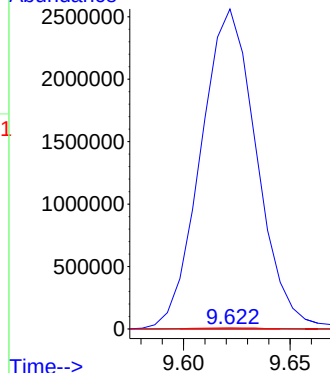
88 100

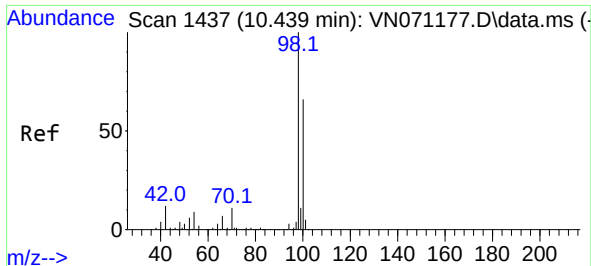
43 903846.7 23.4 35.2#

58 3519.8 50.6 75.8#



Abundance

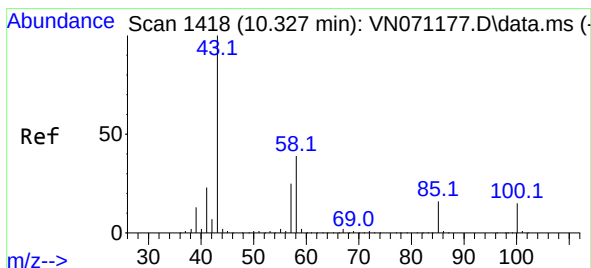
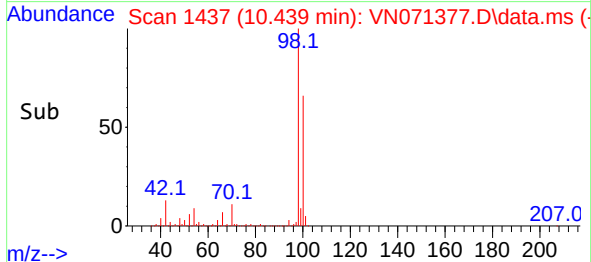
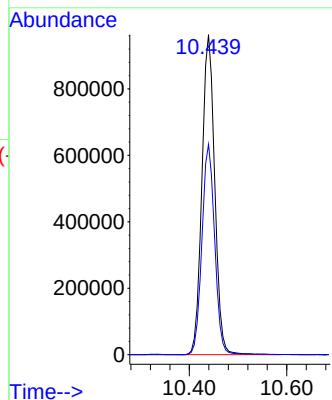
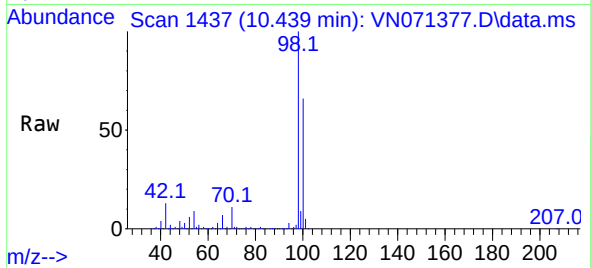




#50
Toluene-d8
Concen: 49.376 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VN071377.D
Acq: 18 Mar 2022 17:06

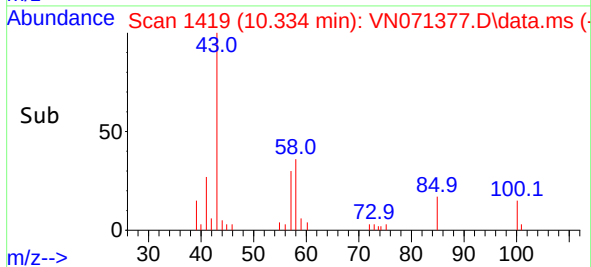
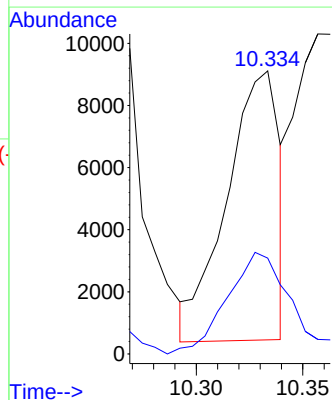
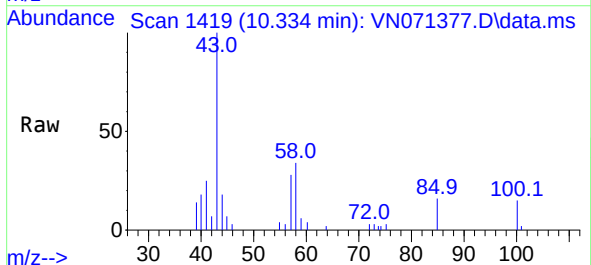
Instrument :
MSVOA_N
ClientSampleId :

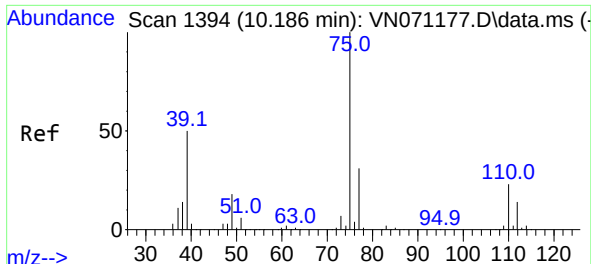
Tgt Ion: 98 Resp: 1753916
Ion Ratio Lower Upper
98 100
100 65.4 50.4 75.6



#51
4-Methyl-2-Pentanone
Concen: 0.829 ug/l
RT: 10.334 min Scan# 1419
Delta R.T. 0.007 min
Lab File: VN071377.D
Acq: 18 Mar 2022 17:06

Tgt Ion: 43 Resp: 14962
Ion Ratio Lower Upper
43 100
58 45.3 30.4 45.6

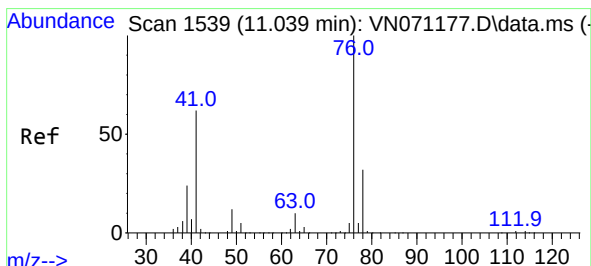
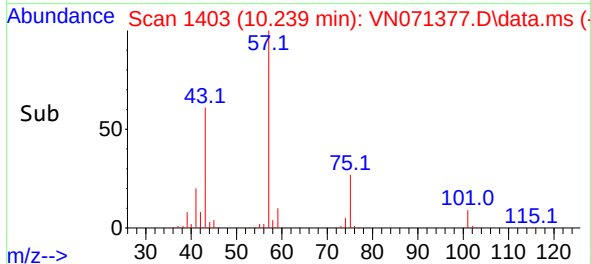
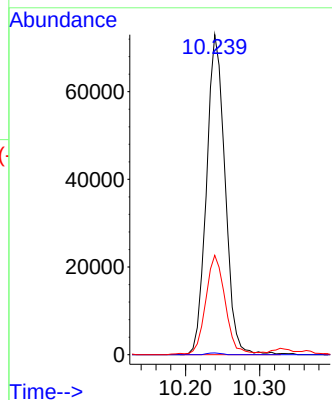
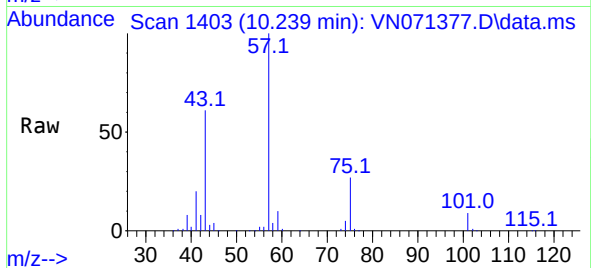




#54
cis-1,3-Dichloropropene
Concen: 7.413 ug/l
RT: 10.239 min Scan# 14
Delta R.T. 0.053 min
Lab File: VN071377.D
Acq: 18 Mar 2022 17:06

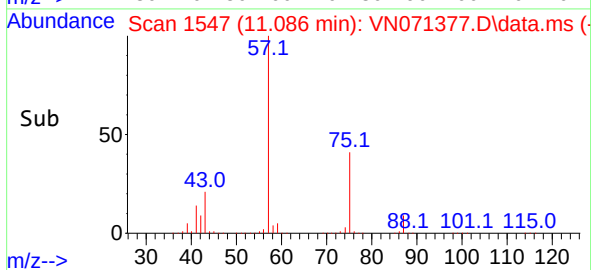
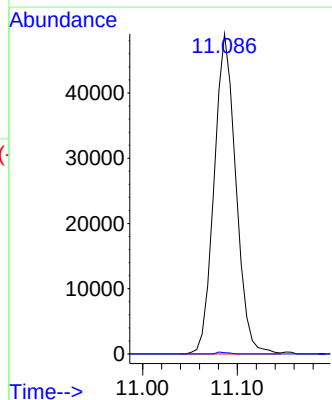
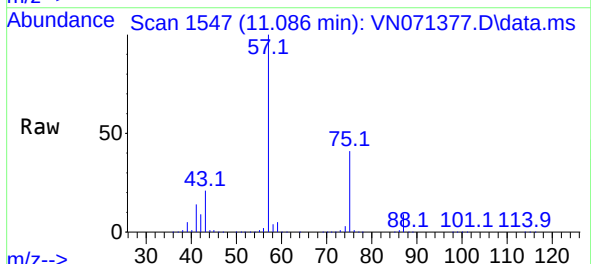
Instrument :
MSVOA_N
ClientSampleId :

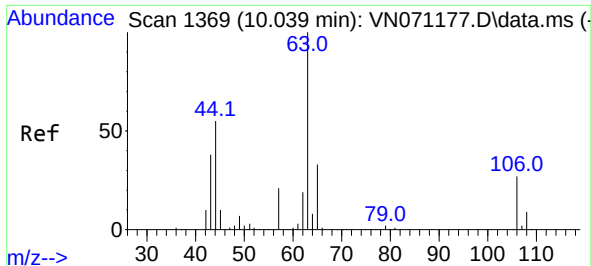
Tgt Ion: 75 Resp: 126973
Ion Ratio Lower Upper
75 100
77 0.6 26.4 39.6#
39 30.7 42.5 63.7#



#57
1,3-Dichloropropane
Concen: 4.141 ug/l
RT: 11.086 min Scan# 1547
Delta R.T. 0.047 min
Lab File: VN071377.D
Acq: 18 Mar 2022 17:06

Tgt Ion: 76 Resp: 78118
Ion Ratio Lower Upper
76 100
78 0.3 25.7 38.5#

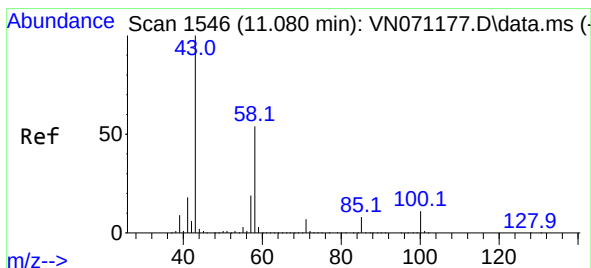
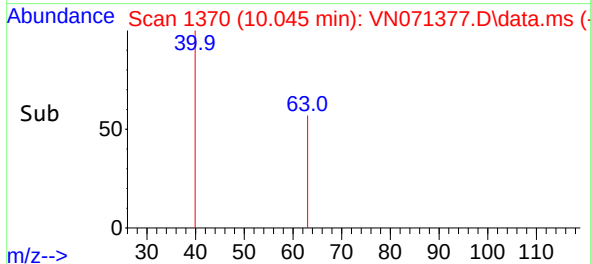
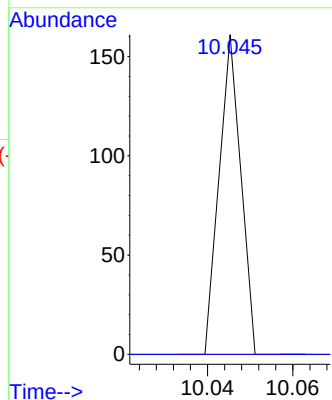
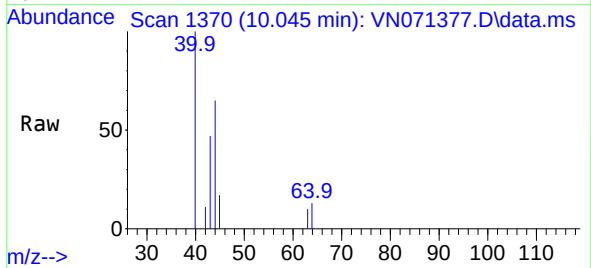




#58
2-Chloroethyl Vinyl ether
Concen: 27.879 ug/l
RT: 10.045 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN071377.D
Acq: 18 Mar 2022 17:06

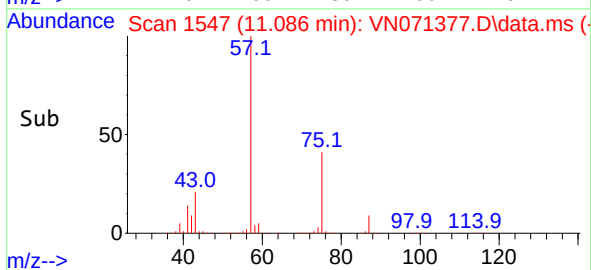
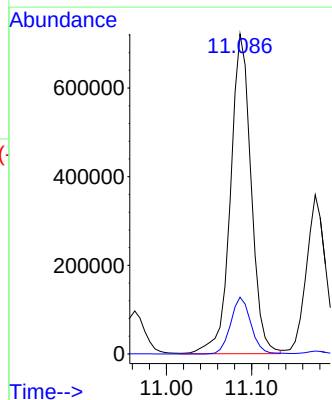
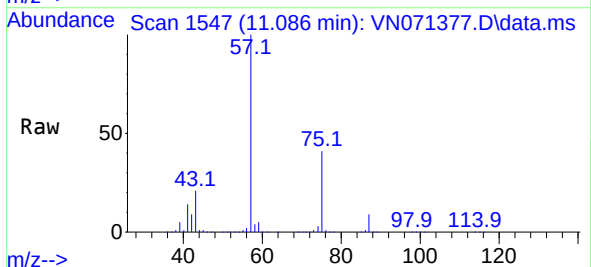
Instrument :
MSVOA_N
ClientSampleId :

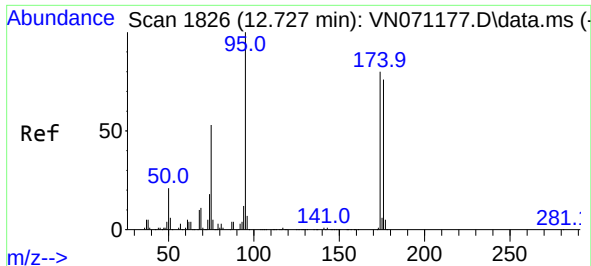
Tgt Ion: 63 Resp: 57
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#



#59
2-Hexanone
Concen: 98.425 ug/l
RT: 11.086 min Scan# 1547
Delta R.T. 0.006 min
Lab File: VN071377.D
Acq: 18 Mar 2022 17:06

Tgt Ion: 43 Resp: 1212460
Ion Ratio Lower Upper
43 100
58 17.4 26.9 80.7#

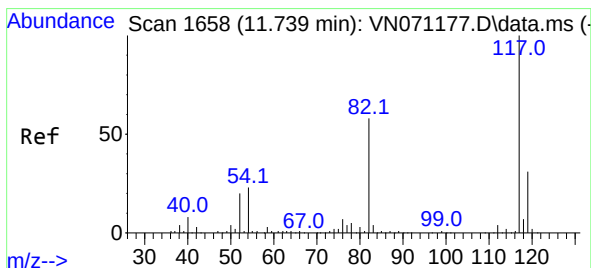
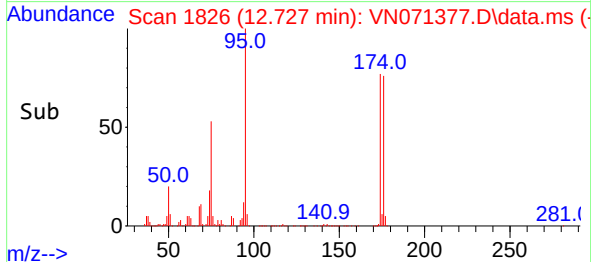
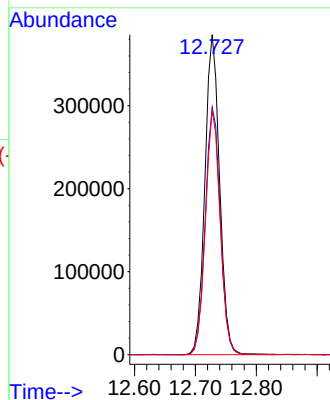
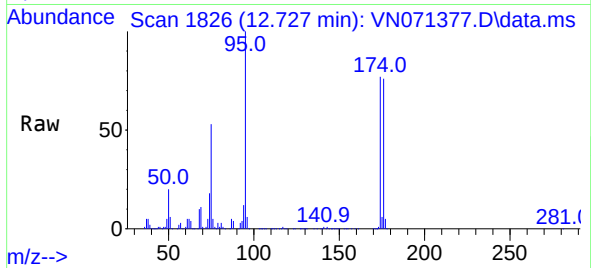




#62
4-Bromofluorobenzene
Concen: 53.864 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN071377.D
Acq: 18 Mar 2022 17:06

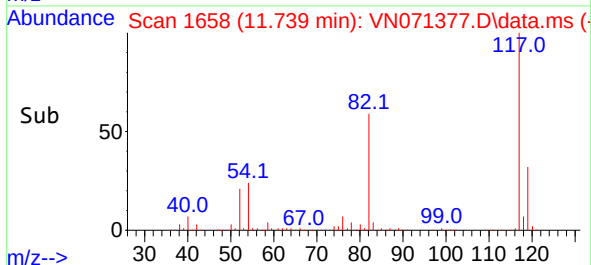
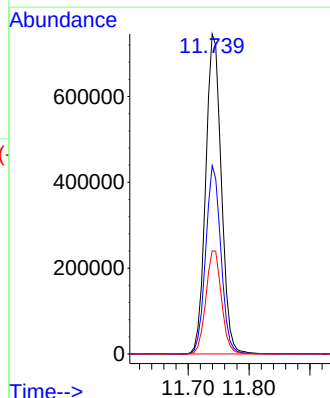
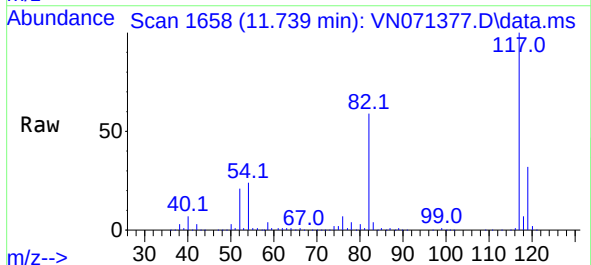
Instrument :
MSVOA_N
ClientSampleId :

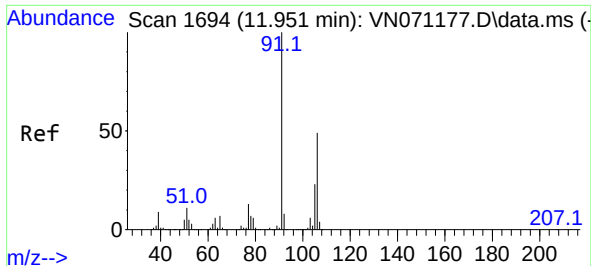
Tgt Ion: 95 Resp: 647907
Ion Ratio Lower Upper
95 100
174 79.0 0.0 187.2
176 76.4 0.0 181.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VN071377.D
Acq: 18 Mar 2022 17:06

Tgt Ion: 117 Resp: 1331065
Ion Ratio Lower Upper
117 100
82 58.9 42.4 63.6
119 32.2 25.4 38.2

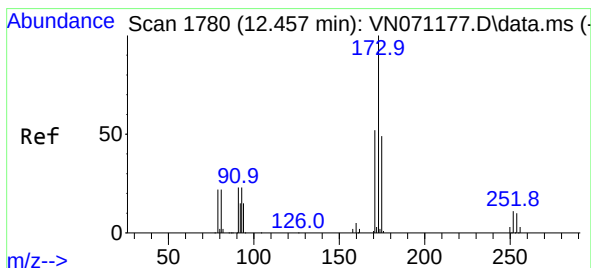
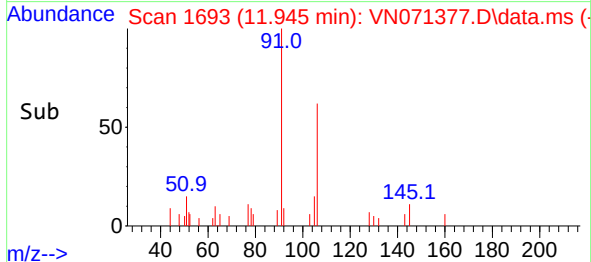
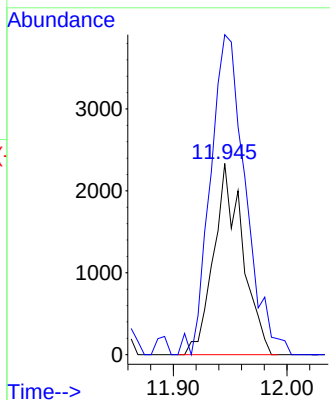
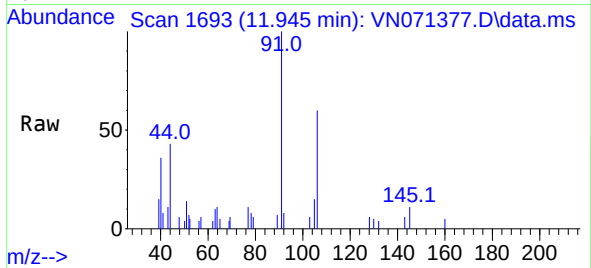




#68
m/p-Xylenes
Concen: 0.224 ug/l
RT: 11.945 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN071377.D
Acq: 18 Mar 2022 17:06

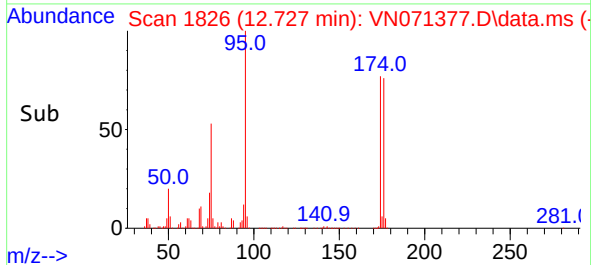
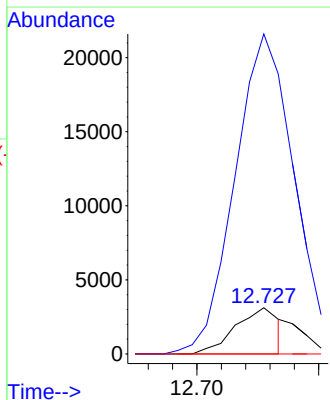
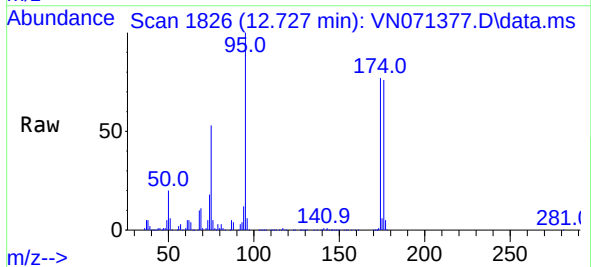
Instrument :
MSVOA_N
ClientSampleId :

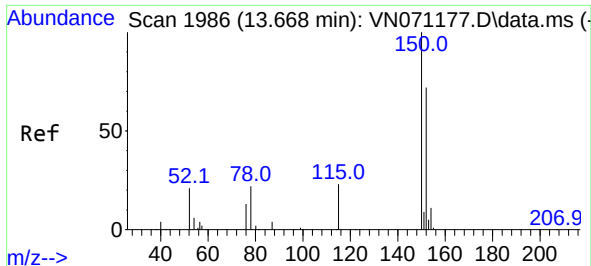
Tgt Ion:106 Resp: 4142
Ion Ratio Lower Upper
106 100
91 201.9 160.6 240.8



#71
Bromoform
Concen: 0.487 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.270 min
Lab File: VN071377.D
Acq: 18 Mar 2022 17:06

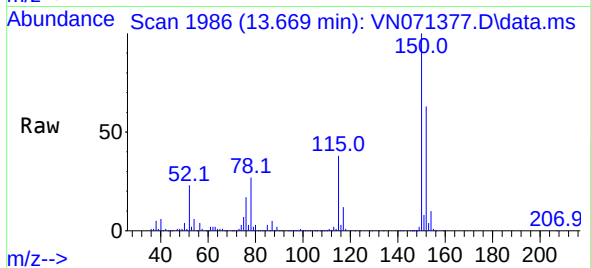
Tgt Ion:173 Resp: 3873
Ion Ratio Lower Upper
173 100
175 728.2 24.2 72.6#
254 0.0 0.0 0.0



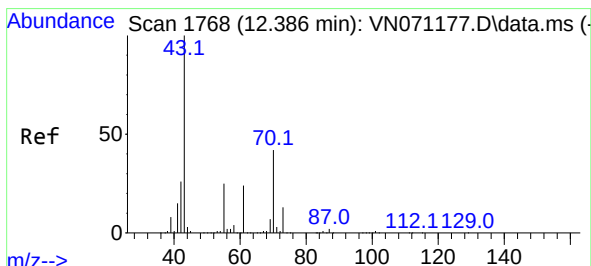
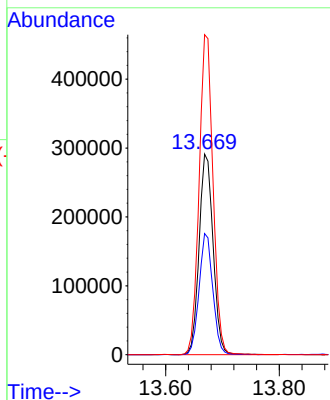
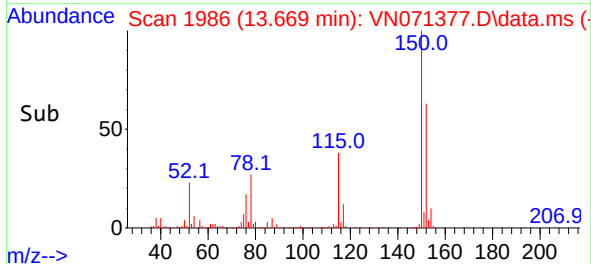


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.669 min Scan# 1986
Delta R.T. 0.001 min
Lab File: VN071377.D
Acq: 18 Mar 2022 17:06

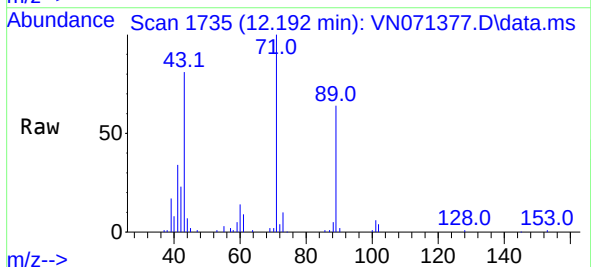
Instrument :
MSVOA_N
ClientSampleId :



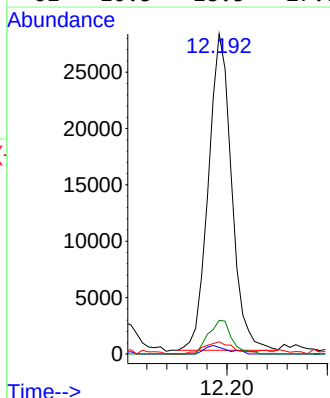
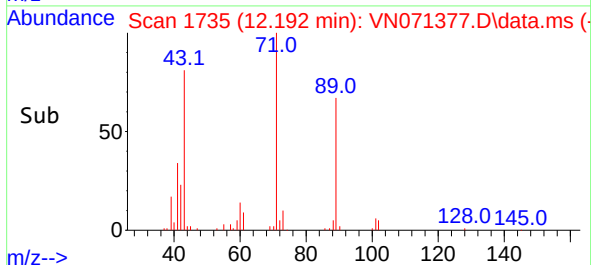
Tgt Ion:152 Resp: 498976
Ion Ratio Lower Upper
152 100
115 59.3 27.5 82.5
150 158.2 0.0 344.4

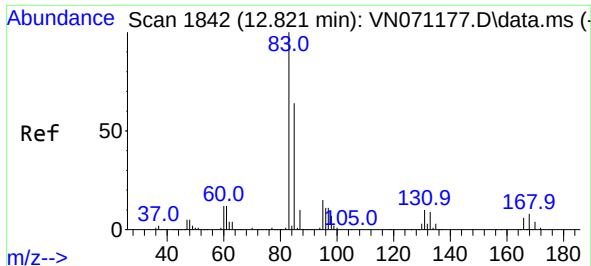


#74
N-ethyl acetate
Concen: 2.508 ug/l
RT: 12.192 min Scan# 1735
Delta R.T. -0.194 min
Lab File: VN071377.D
Acq: 18 Mar 2022 17:06



Tgt Ion: 43 Resp: 45364
Ion Ratio Lower Upper
43 100
70 2.6 33.4 50.0#
55 4.8 19.3 28.9#
61 10.5 18.5 27.7#

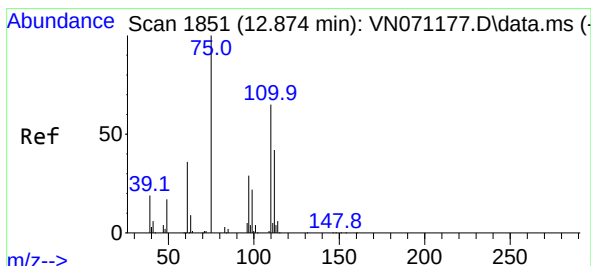
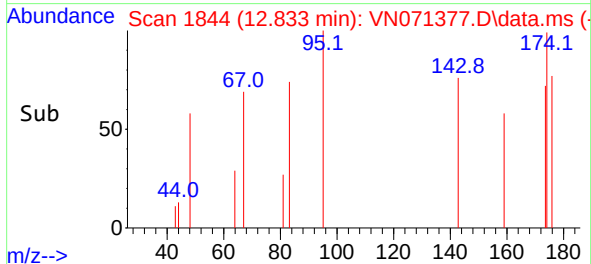
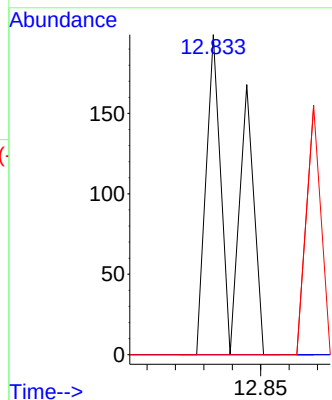
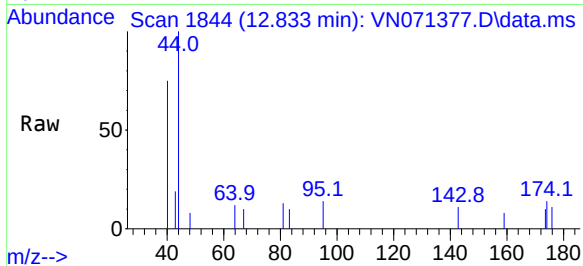




#75
1,1,2-Tetrachloroethane
Concen: Below Cal
RT: 12.833 min Scan# 1844
Delta R.T. 0.012 min
Lab File: VN071377.D
Acq: 18 Mar 2022 17:06

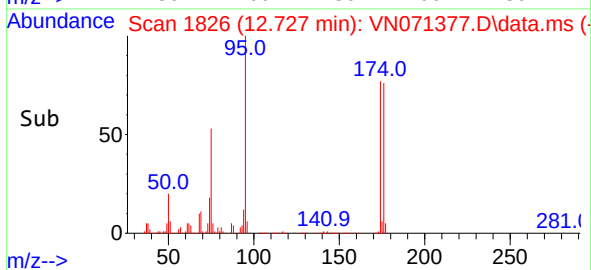
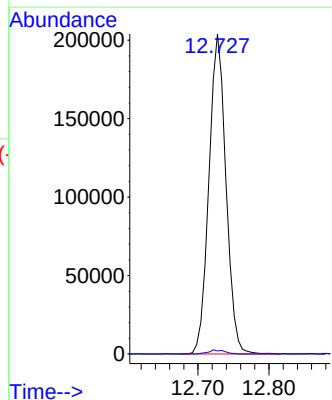
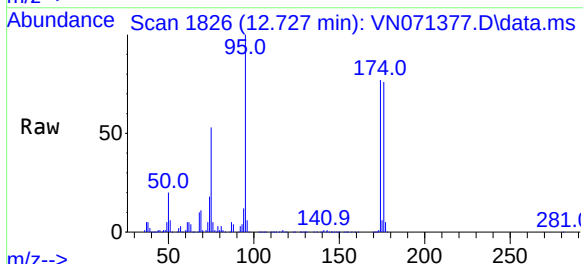
Instrument :
MSVOA_N
ClientSampleId :

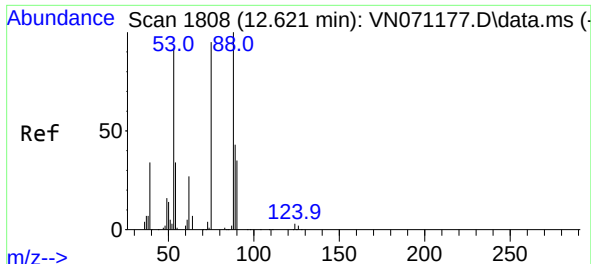
Tgt Ion: 83 Resp: 129
Ion Ratio Lower Upper
83 100
131 0.0 5.5 16.5#
85 0.0 32.4 97.2#



#76
1,2,3-Trichloropropane
Concen: 26.783 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.147 min
Lab File: VN071377.D
Acq: 18 Mar 2022 17:06

Tgt Ion: 75 Resp: 339752
Ion Ratio Lower Upper
75 100
77 1.2 82.6 247.8#

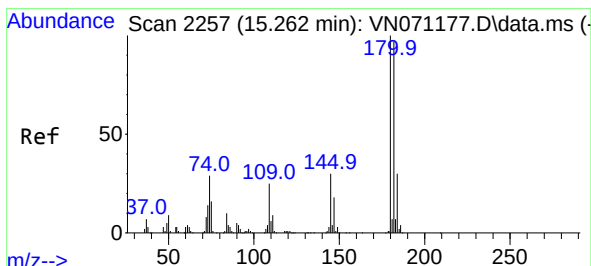
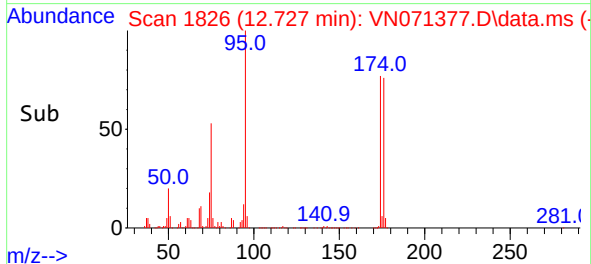
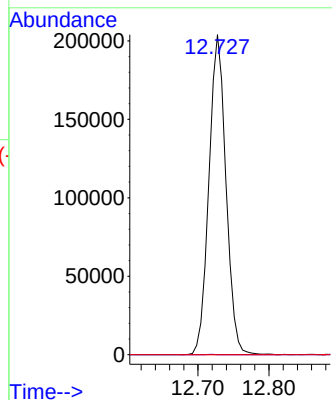
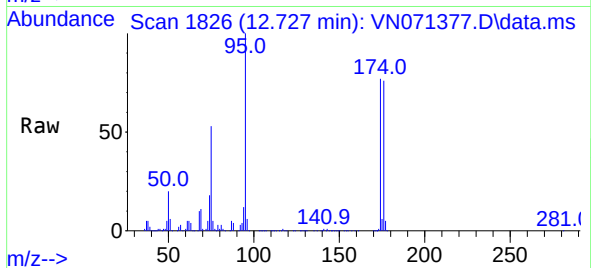




#81
trans-1,4-Dichloro-2-butene
Concen: 73.605 ug/l
RT: 12.727 min Scan# 1808
Delta R.T. 0.106 min
Lab File: VN071377.D
Acq: 18 Mar 2022 17:06

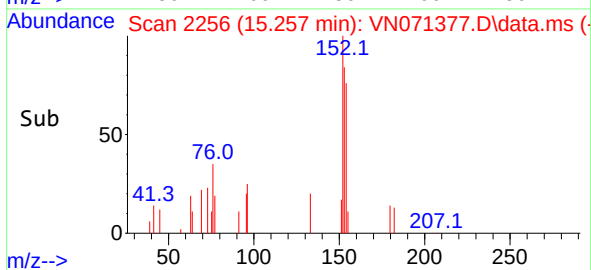
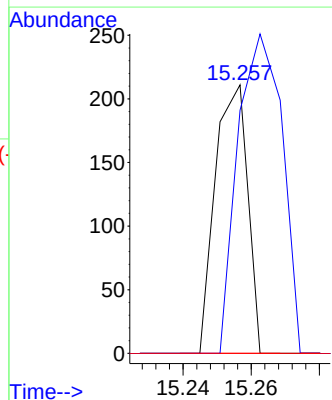
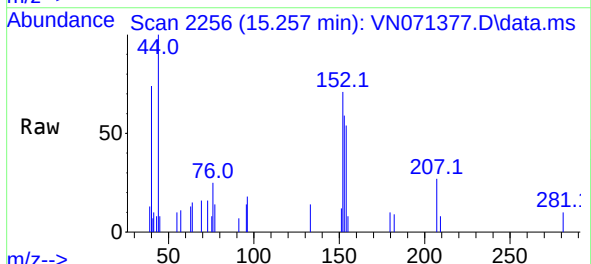
Instrument :
MSVOA_N
ClientSampleId :

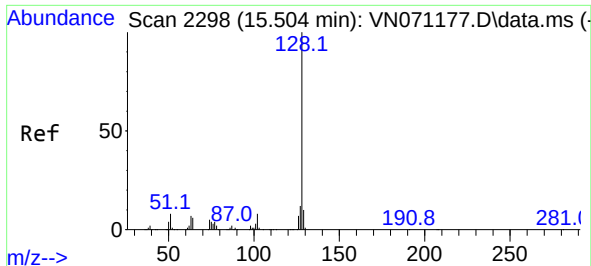
Tgt Ion: 75 Resp: 339752
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 38.2 57.4#



#93
1,2,4-Trichlorobenzene
Concen: 3.005 ug/l
RT: 15.257 min Scan# 2256
Delta R.T. -0.005 min
Lab File: VN071377.D
Acq: 18 Mar 2022 17:06

Tgt Ion:180 Resp: 139
Ion Ratio Lower Upper
180 100
182 162.6 48.3 144.9#
145 0.0 14.5 43.5#





#95

Naphthalene

Concen: 5.444 ug/l

RT: 15.498 min Scan# 21

Delta R.T. -0.006 min

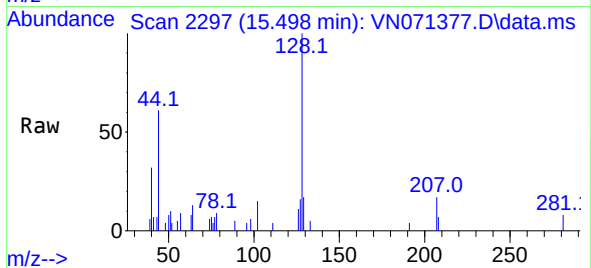
Lab File: VN071377.D

Acq: 18 Mar 2022 17:06

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:128 Resp: 9586

Ion Ratio Lower Upper

128 100

127 14.1 10.5 15.7

129 13.0 8.7 13.1

