

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032224\
 Data File : VN081541.D
 Acq On : 22 Mar 2024 12:28
 Operator : JC\MD
 Sample : P1798-04DL 50X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S-4DL

Quant Time: Mar 23 00:12:24 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031824W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 19 06:00:00 2024
 Response via : Initial Calibration

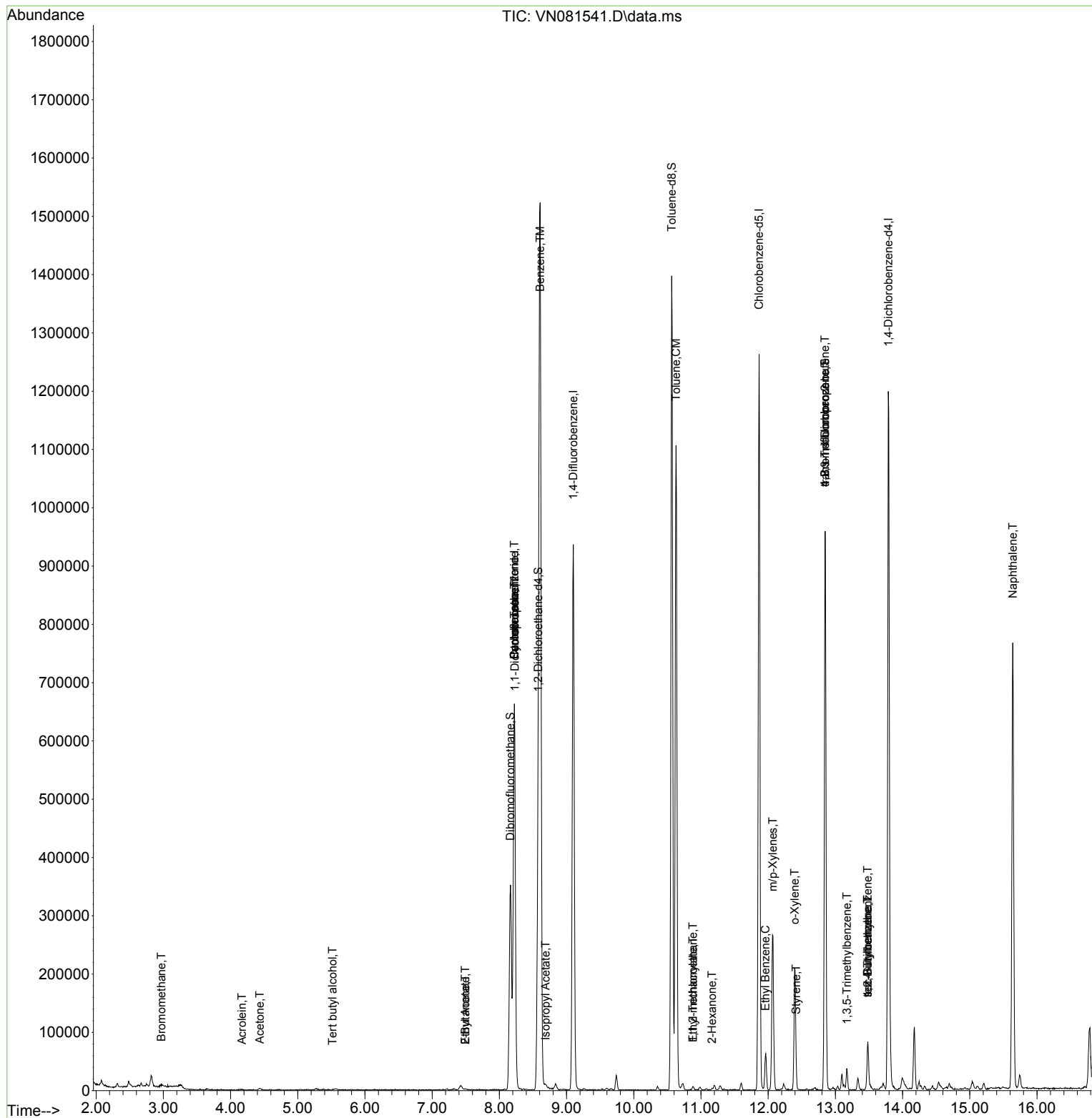
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	479100	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	9.100	114	835543	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	743550	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	324932	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	296118	48.466	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.940%		
35) Dibromofluoromethane	8.165	113	253296	48.035	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.080%		
50) Toluene-d8	10.565	98	983249	51.582	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	103.160%		
62) 4-Bromofluorobenzene	12.847	95	320831	47.767	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery =	95.540%		
Target Compounds						
						Qvalue
5) Bromomethane	2.971	94	1062	0.208	ug/l	# 71
11) Tert butyl alcohol	5.518	59	279	0.262	ug/l	# 72
13) Acrolein	4.171	56	523	0.547	ug/l	# 4
16) Acetone	4.436	43	5698	2.886	ug/l	99
25) 2-Butanone	7.494	43	2758	0.814	ug/l	# 74
31) Cyclohexane	8.224	56	12478	1.255	ug/l	# 1
36) 1,1-Dichloropropene	8.230	75	38182	4.303	ug/l	# 51
37) Ethyl Acetate	7.494	43	2758	0.363	ug/l	# 73
38) Carbon Tetrachloride	8.224	117	53100	5.462	ug/l	# 17
40) Benzene	8.606	78	1538097	59.285	ug/l	97
43) Isopropyl Acetate	8.688	43	5689	0.452	ug/l	# 80
52) Toluene	10.629	92	498509	30.231	ug/l	99
55) 1,1,2-Trichloroethane	10.882	97	5103	0.769	ug/l	# 16
56) Ethyl methacrylate	10.882	69	55	0.576	ug/l	# 20
59) 2-Hexanone	11.165	43	1673	0.294	ug/l	# 26
67) Ethyl Benzene	11.959	91	43576	1.427	ug/l	98
68) m/p-Xylenes	12.071	106	86485	7.556	ug/l	97
69) o-Xylene	12.394	106	59865	5.327	ug/l	87
70) Styrene	12.418	104	10616	0.586	ug/l	# 24
76) 1,2,3-Trichloropropane	12.847	75	170994	22.000	ug/l	# 1
80) 1,3,5-Trimethylbenzene	13.171	105	17991	0.786	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.847	75	170994	59.451	ug/l	# 14
83) tert-Butylbenzene	13.482	119	6400	0.324	ug/l	# 69
84) 1,2,4-Trimethylbenzene	13.482	105	49993	2.174	ug/l	96
85) sec-Butylbenzene	13.482	105	49993	1.773	ug/l	# 60
95) Naphthalene	15.641	128	714360	31.512	ug/l	99

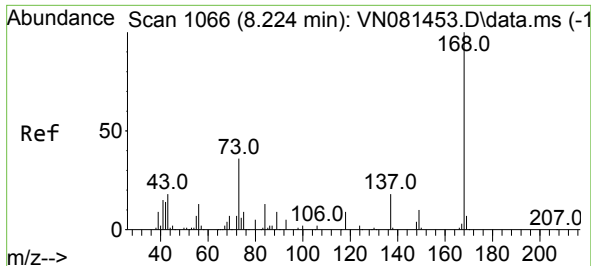
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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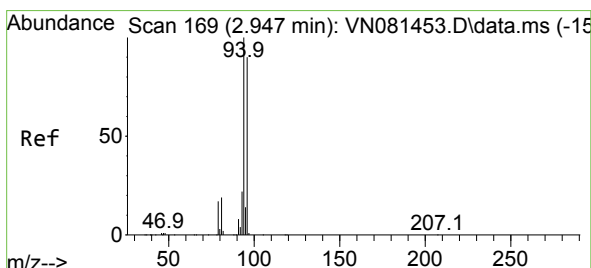
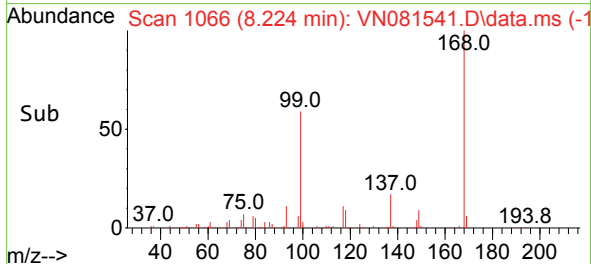
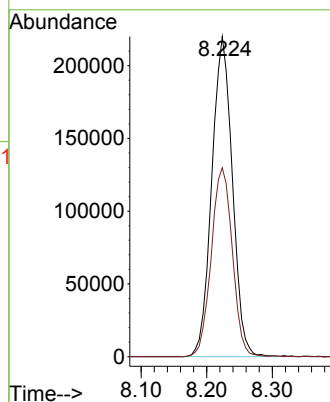
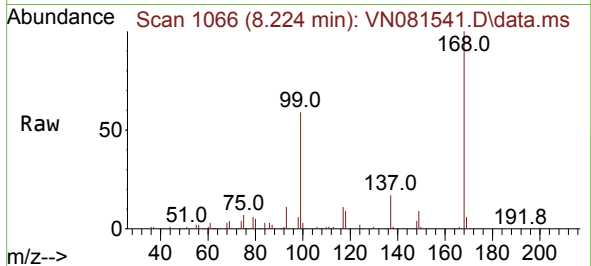




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN081541.D
Acq: 22 Mar 2024 12:28

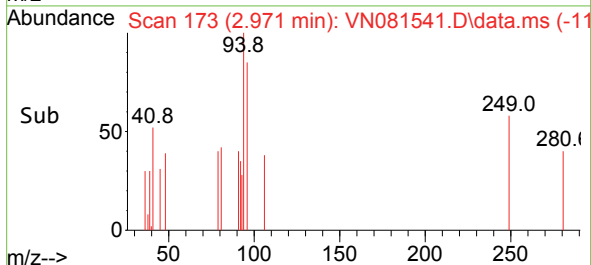
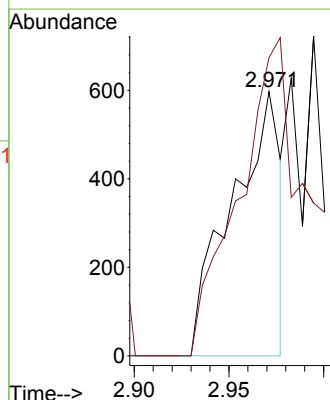
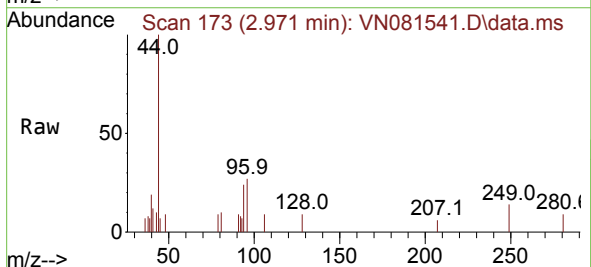
Instrument :
MSVOA_N
ClientSampleId :
S-4DL

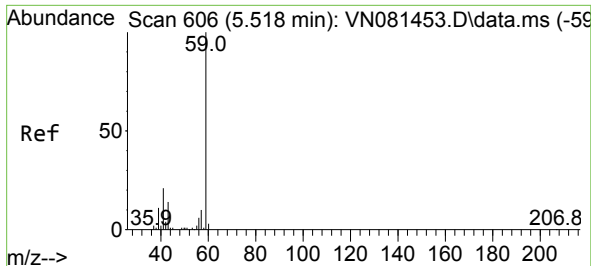
Tgt Ion:168 Resp: 479100
Ion Ratio Lower Upper
168 100
99 59.1 59.9 89.9#



#5
Bromomethane
Concen: 0.208 ug/l
RT: 2.971 min Scan# 173
Delta R.T. 0.024 min
Lab File: VN081541.D
Acq: 22 Mar 2024 12:28

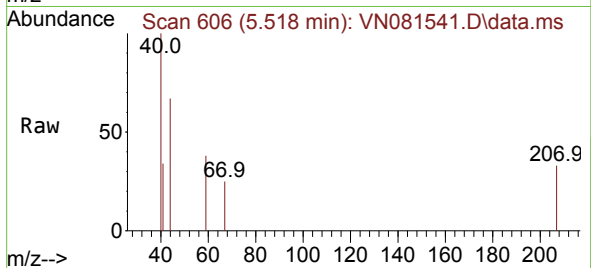
Tgt Ion: 94 Resp: 1062
Ion Ratio Lower Upper
94 100
96 112.9 69.2 103.8#



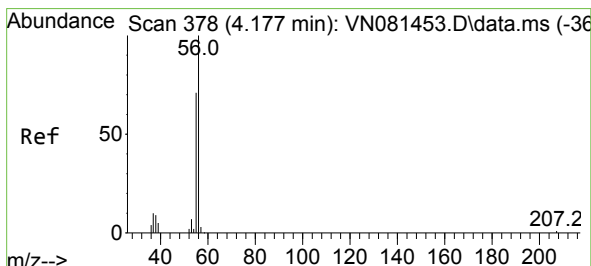
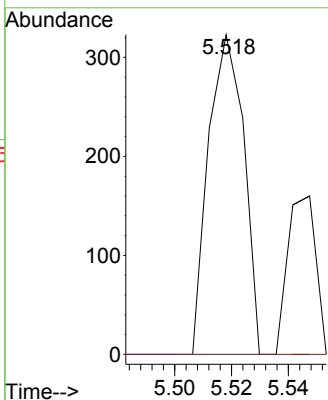
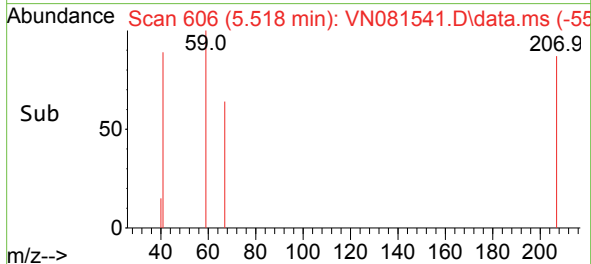


#11
Tert butyl alcohol
Concen: 0.262 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.000 min
Lab File: VN081541.D
Acq: 22 Mar 2024 12:28

Instrument :
MSVOA_N
ClientSampleId :
S-4DL

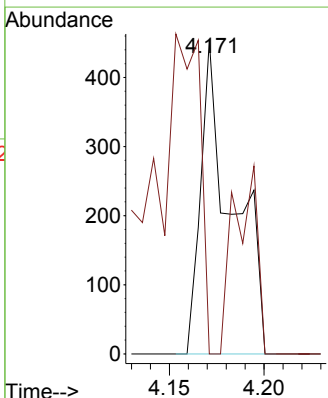
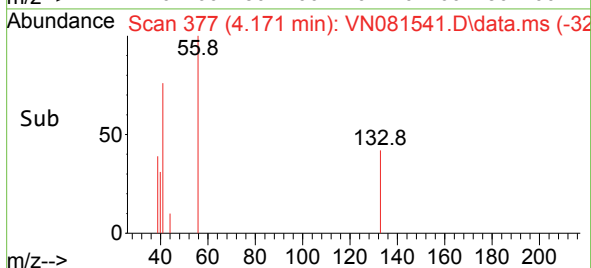
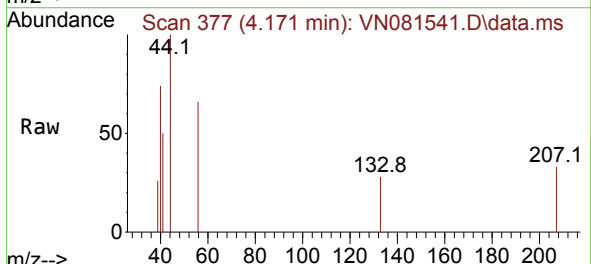


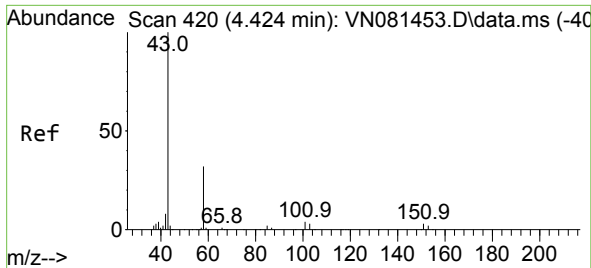
Tgt Ion: 59 Resp: 279
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#13
Acrolein
Concen: 0.547 ug/l
RT: 4.171 min Scan# 377
Delta R.T. -0.006 min
Lab File: VN081541.D
Acq: 22 Mar 2024 12:28

Tgt Ion: 56 Resp: 523
Ion Ratio Lower Upper
56 100
55 147.2 55.3 82.9#





#16

Acetone

Concen: 2.886 ug/l

RT: 4.436 min Scan# 41

Delta R.T. 0.012 min

Lab File: VN081541.D

Acq: 22 Mar 2024 12:28

Instrument :

MSVOA_N

ClientSampleId :

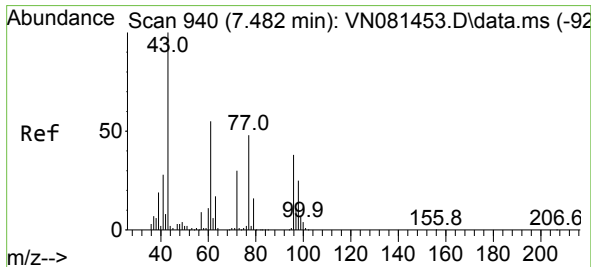
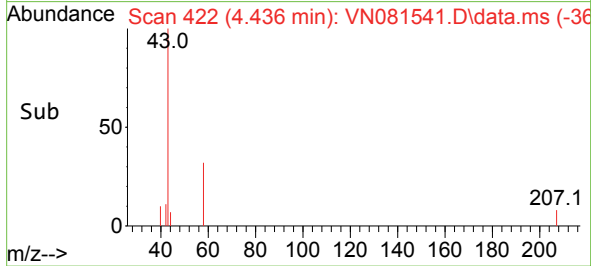
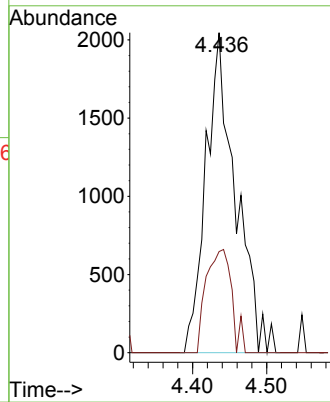
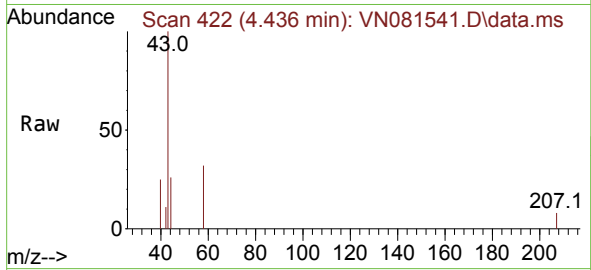
S-4DL

Tgt Ion: 43 Resp: 5698

Ion Ratio Lower Upper

43 100

58 31.6 24.8 37.2



#25

2-Butanone

Concen: 0.814 ug/l

RT: 7.494 min Scan# 942

Delta R.T. 0.012 min

Lab File: VN081541.D

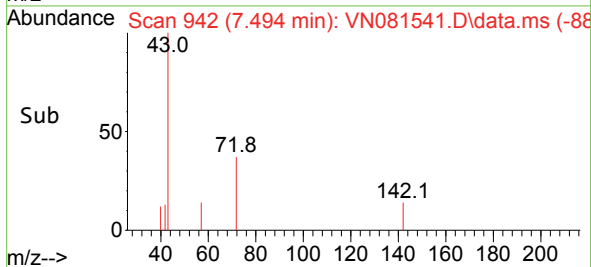
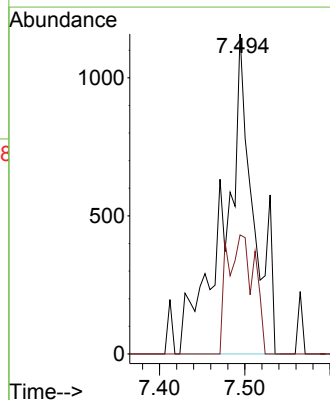
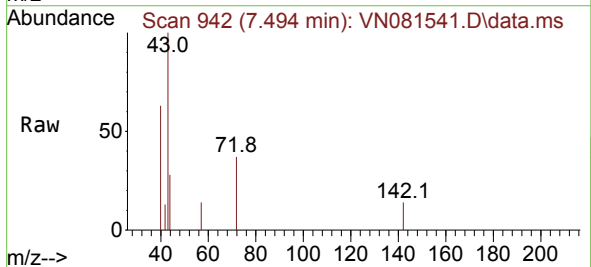
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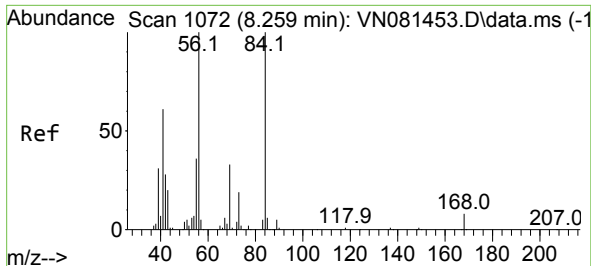
Tgt Ion: 43 Resp: 2758

Ion Ratio Lower Upper

43 100

72 37.2 19.5 29.3#

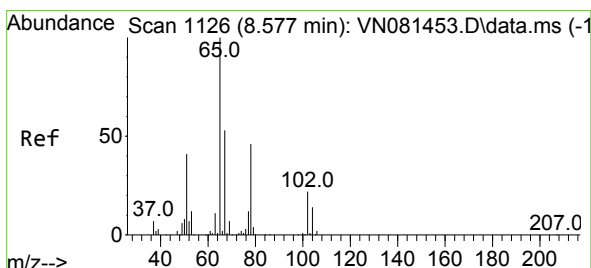
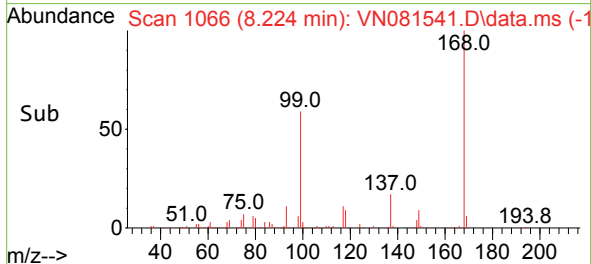
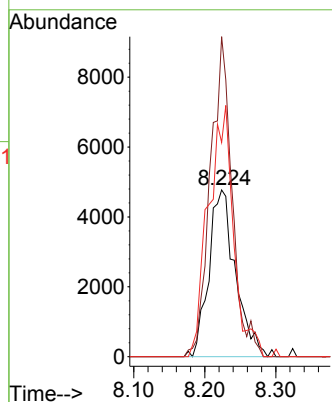
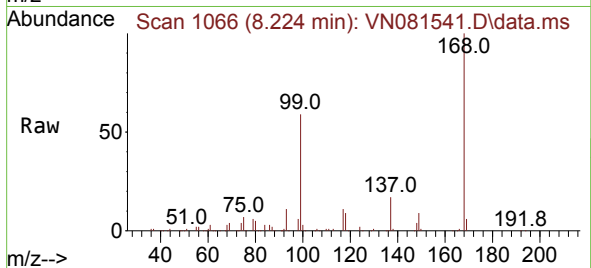




#31
Cyclohexane
Concen: 1.255 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.035 min
Lab File: VN081541.D
Acq: 22 Mar 2024 12:28

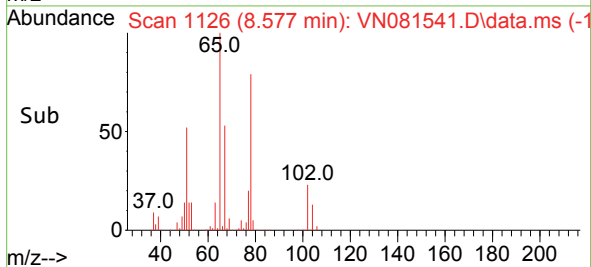
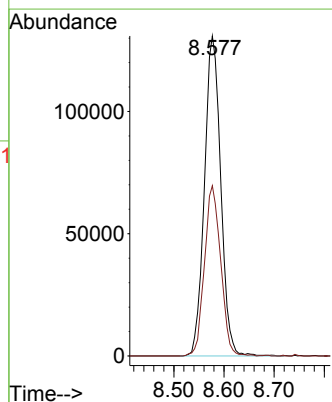
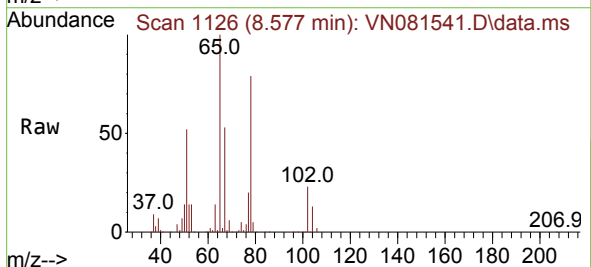
Instrument :
MSVOA_N
ClientSampleId :
S-4DL

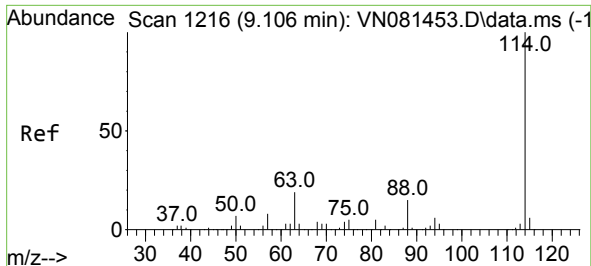
Tgt Ion: 56 Resp: 12478
Ion Ratio Lower Upper
56 100
69 191.9 20.1 30.1#
84 128.5 56.9 85.3#



#33
1,2-Dichloroethane-d4
Concen: 48.466 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN081541.D
Acq: 22 Mar 2024 12:28

Tgt Ion: 65 Resp: 296118
Ion Ratio Lower Upper
65 100
67 52.9 0.0 102.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN081541.D

Acq: 22 Mar 2024 12:28

Instrument :

MSVOA_N

ClientSampleId :

S-4DL

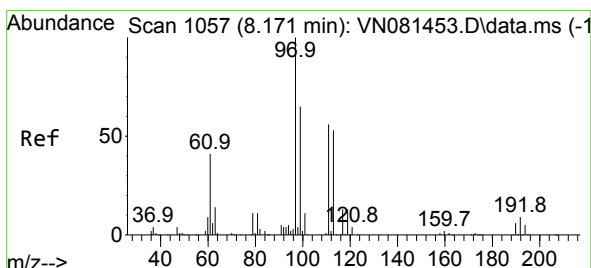
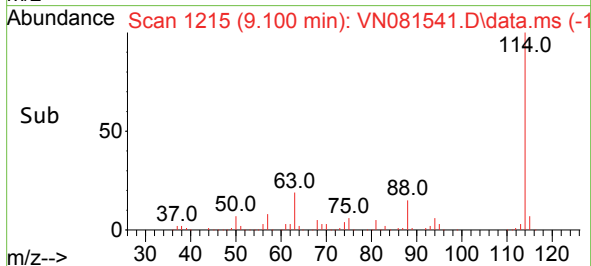
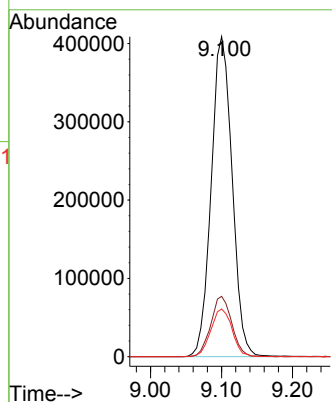
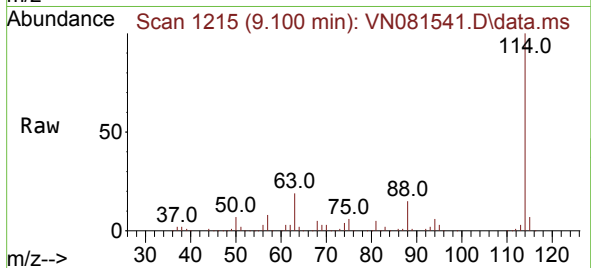
Tgt Ion:114 Resp: 835543

Ion Ratio Lower Upper

114 100

63 18.9 0.0 48.0

88 14.9 0.0 34.8



#35

Dibromofluoromethane

Concen: 48.035 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN081541.D

Acq: 22 Mar 2024 12:28

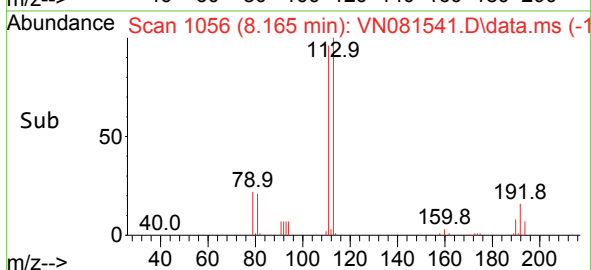
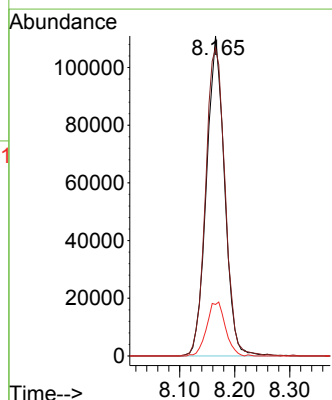
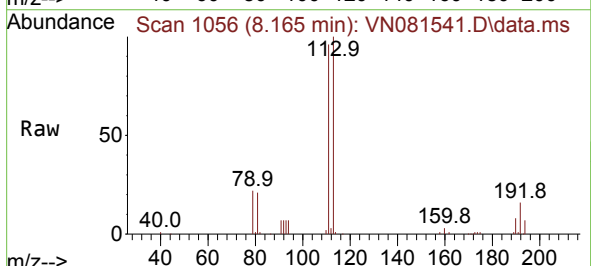
Tgt Ion:113 Resp: 253296

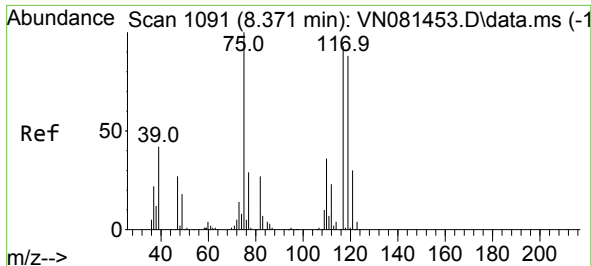
Ion Ratio Lower Upper

113 100

111 103.3 82.2 123.4

192 17.4 12.5 18.7





#36

1,1-Dichloropropene

Concen: 4.303 ug/l

RT: 8.230 min Scan# 1091

Delta R.T. -0.141 min

Lab File: VN081541.D

Acq: 22 Mar 2024 12:28

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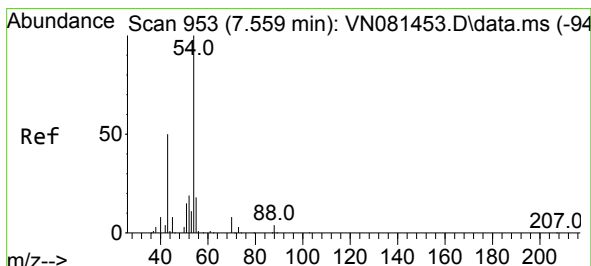
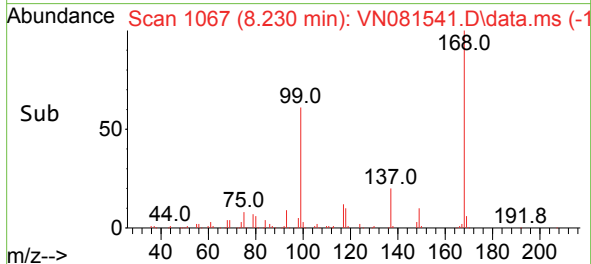
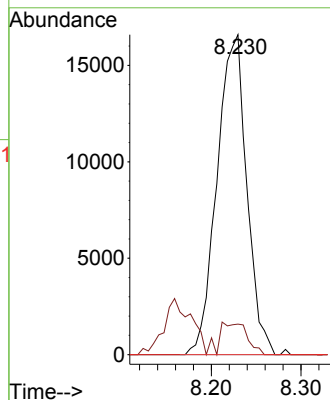
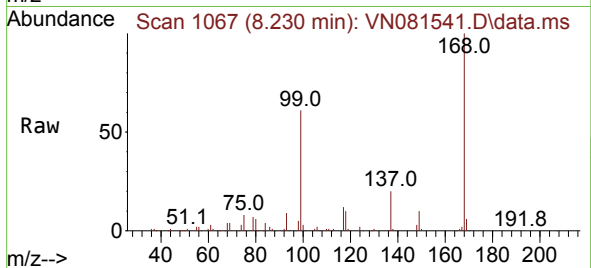
Tgt Ion: 75 Resp: 38182

Ion Ratio Lower Upper

75 100

110 9.4 16.0 48.0#

77 0.0 25.8 38.6#



#37

Ethyl Acetate

Concen: 0.363 ug/l

RT: 7.494 min Scan# 942

Delta R.T. -0.065 min

Lab File: VN081541.D

Acq: 22 Mar 2024 12:28

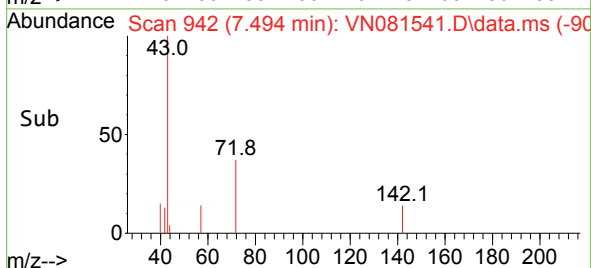
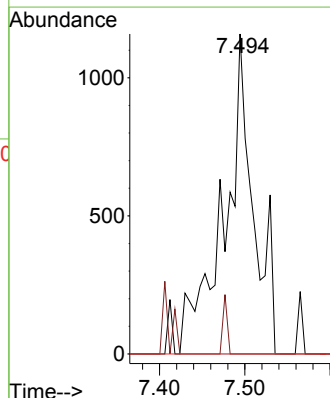
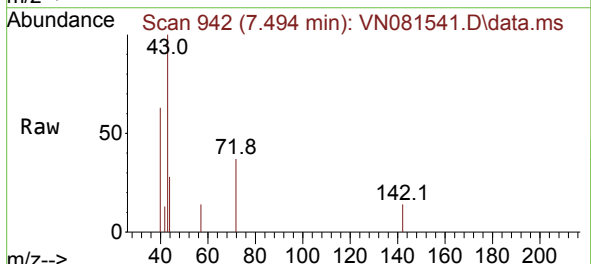
Tgt Ion: 43 Resp: 2758

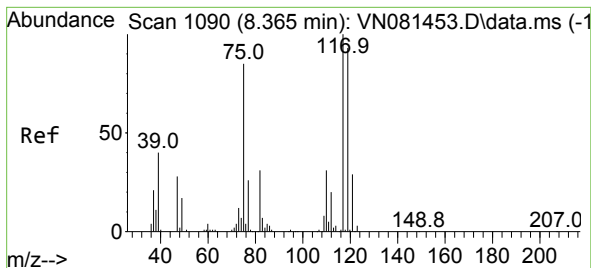
Ion Ratio Lower Upper

43 100

61 2.8 10.6 15.8#

70 0.0 8.0 12.0#





#38

Carbon Tetrachloride

Concen: 5.462 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.141 min

Lab File: VN081541.D

Acq: 22 Mar 2024 12:28

Instrument :

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S-4DL

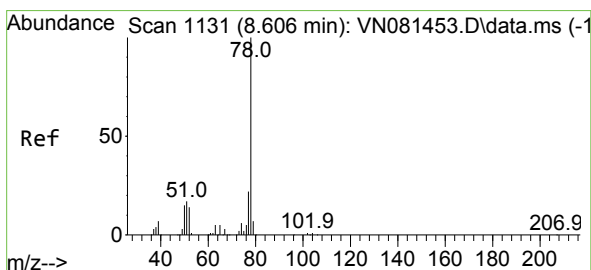
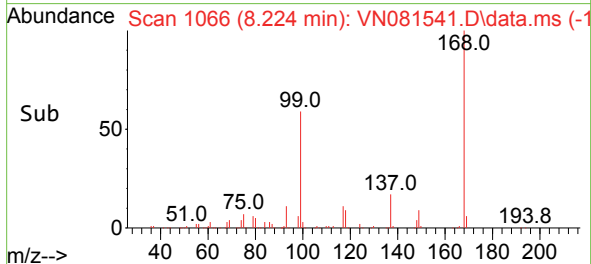
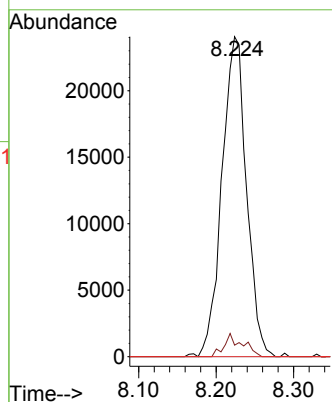
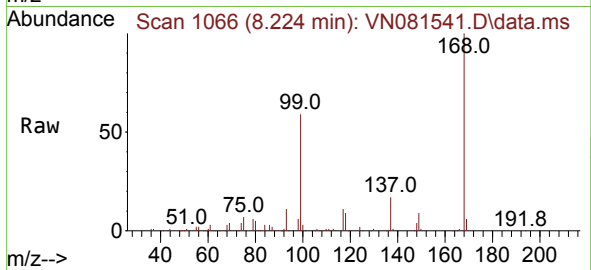
Tgt Ion:117 Resp: 53100

Ion Ratio Lower Upper

117 100

119 3.6 73.4 110.2#

121 0.0 24.4 36.6#



#40

Benzene

Concen: 59.285 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VN081541.D

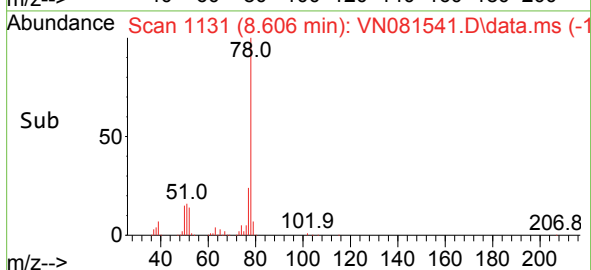
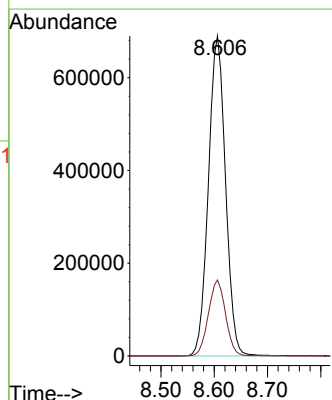
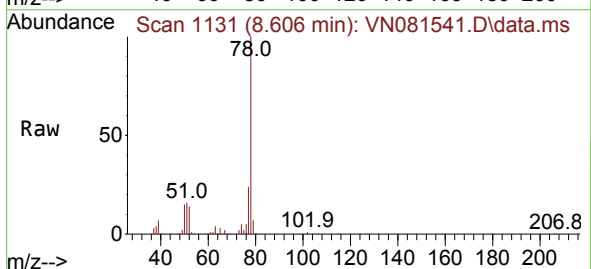
Acq: 22 Mar 2024 12:28

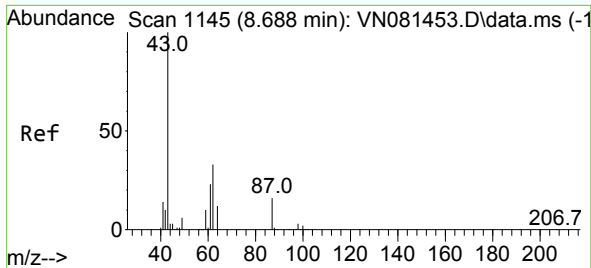
Tgt Ion: 78 Resp: 1538097

Ion Ratio Lower Upper

78 100

77 23.8 20.4 30.6

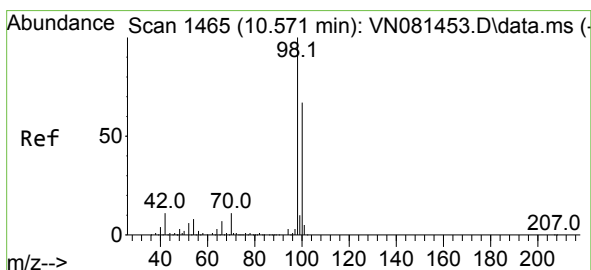
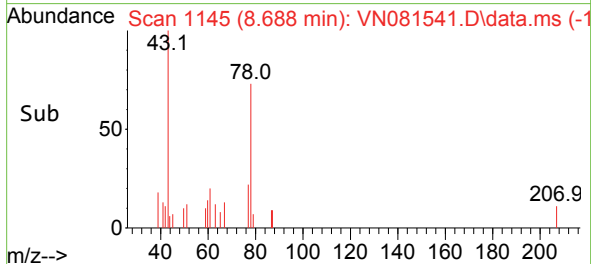
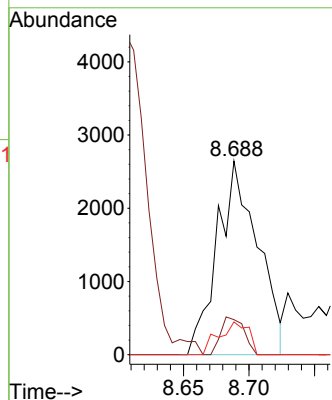
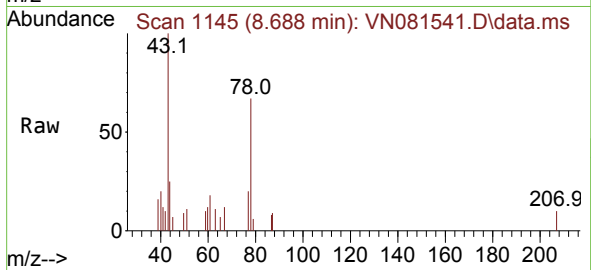




#43
Isopropyl Acetate
Concen: 0.452 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN081541.D
Acq: 22 Mar 2024 12:28

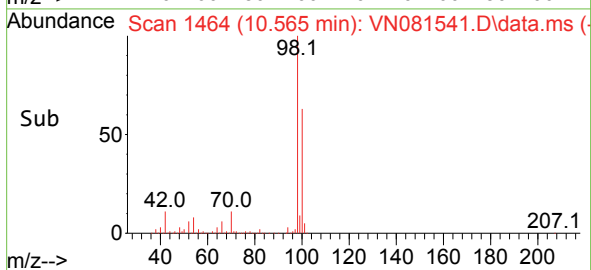
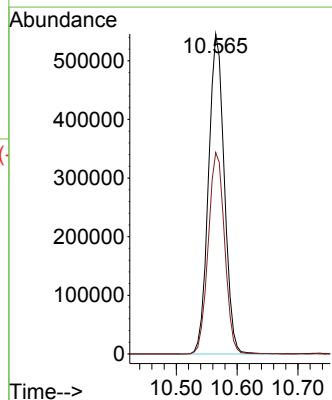
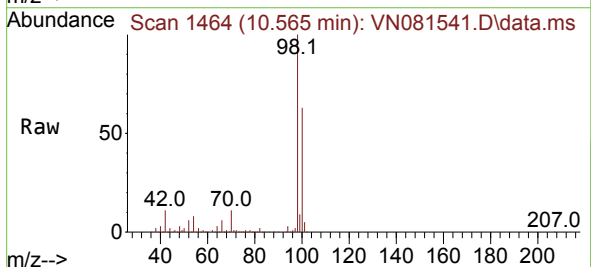
Instrument :
MSVOA_N
ClientSampleId :
S-4DL

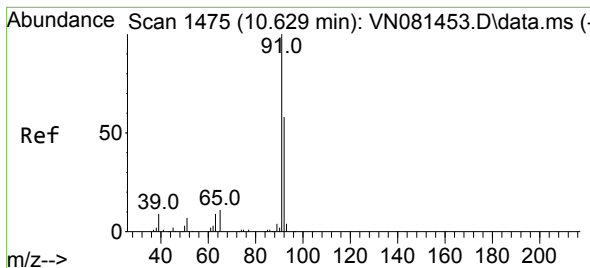
Tgt Ion: 43 Resp: 5689
Ion Ratio Lower Upper
43 100
61 11.1 19.9 29.9#
87 12.3 9.0 13.6



#50
Toluene-d8
Concen: 51.582 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN081541.D
Acq: 22 Mar 2024 12:28

Tgt Ion: 98 Resp: 983249
Ion Ratio Lower Upper
98 100
100 65.1 51.4 77.0





#52

Toluene

Concen: 30.231 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VN081541.D

Acq: 22 Mar 2024 12:28

Instrument :

MSVOA_N

ClientSampleId :

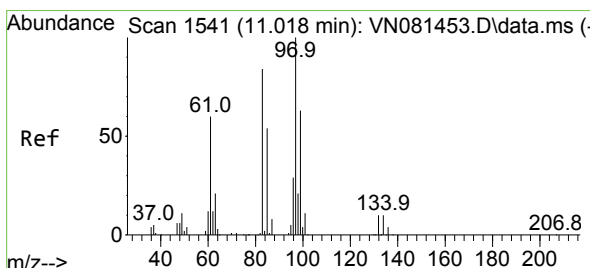
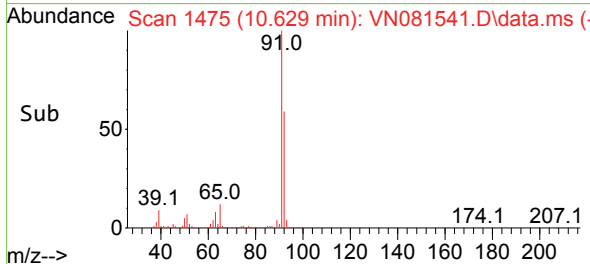
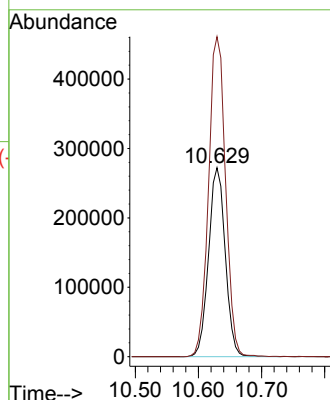
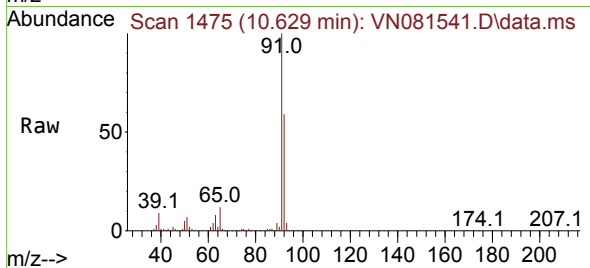
S-4DL

Tgt Ion: 92 Resp: 498509

Ion Ratio Lower Upper

92 100

91 172.8 139.4 209.0



#55

1,1,2-Trichloroethane

Concen: 0.769 ug/l

RT: 10.882 min Scan# 1518

Delta R.T. -0.135 min

Lab File: VN081541.D

Acq: 22 Mar 2024 12:28

Tgt Ion: 97 Resp: 5103

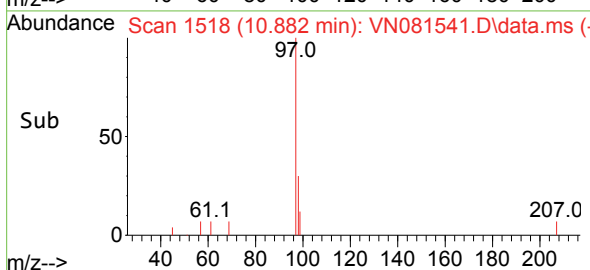
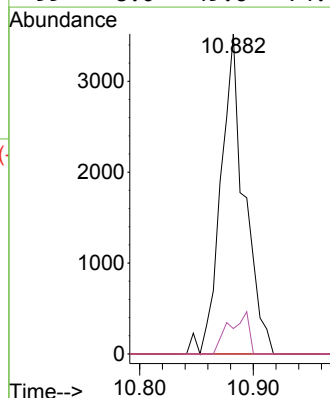
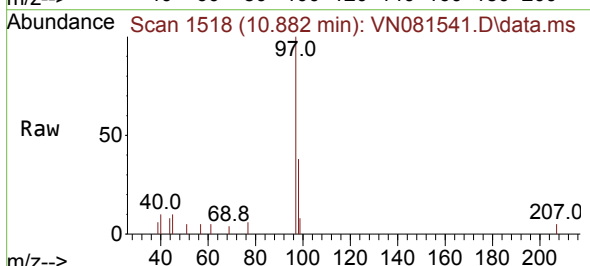
Ion Ratio Lower Upper

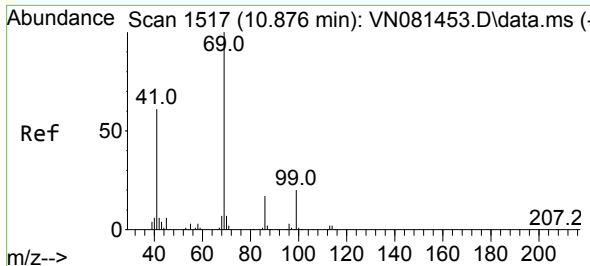
97 100

83 0.0 72.9 109.3#

85 0.0 50.2 75.2#

99 8.0 49.6 74.4#

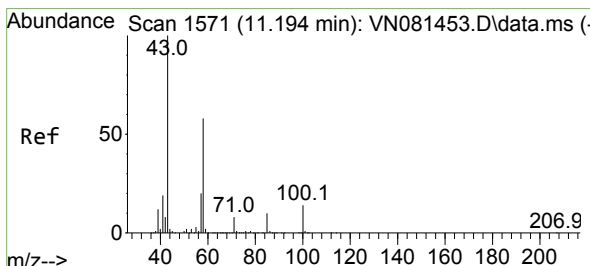
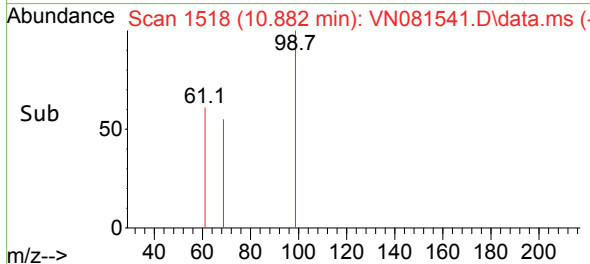
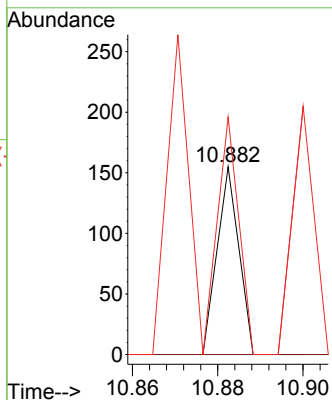
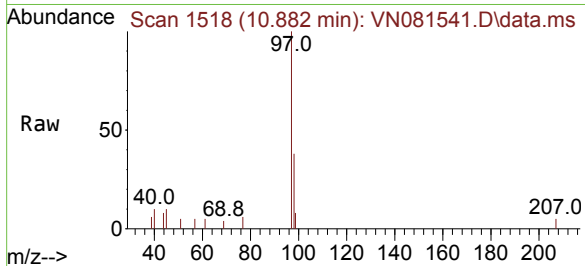




#56
Ethyl methacrylate
Concen: 0.576 ug/l
RT: 10.882 min Scan# 1517
Delta R.T. 0.006 min
Lab File: VN081541.D
Acq: 22 Mar 2024 12:28

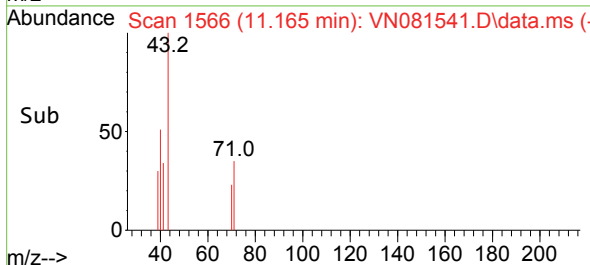
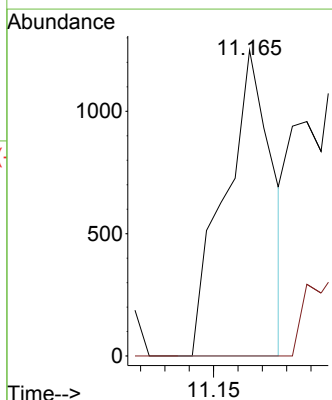
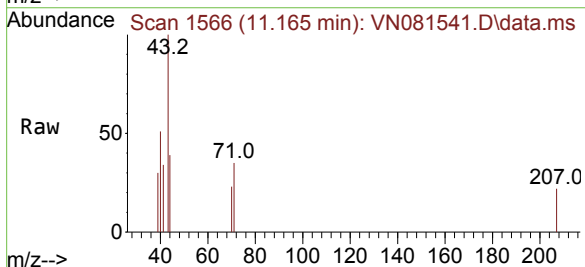
Instrument :
MSVOA_N
ClientSampleId :
S-4DL

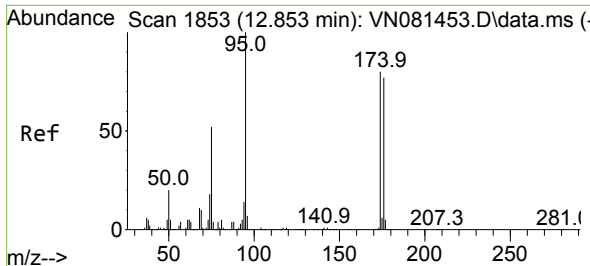
Tgt Ion: 69 Resp: 55
Ion Ratio Lower Upper
69 100
41 0.0 61.0 91.6#
39 0.0 31.8 47.6#



#59
2-Hexanone
Concen: 0.294 ug/l
RT: 11.165 min Scan# 1566
Delta R.T. -0.029 min
Lab File: VN081541.D
Acq: 22 Mar 2024 12:28

Tgt Ion: 43 Resp: 1673
Ion Ratio Lower Upper
43 100
58 0.0 25.9 77.8#

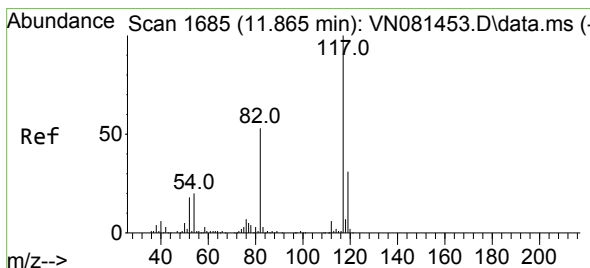
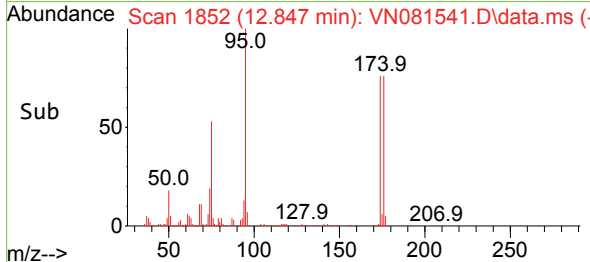
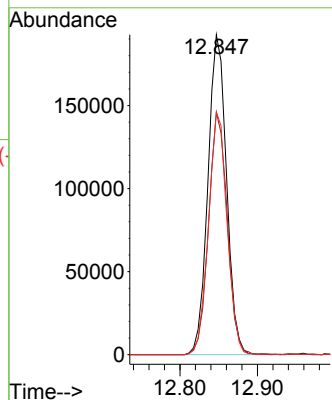
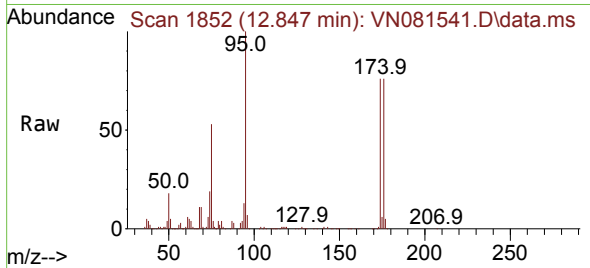




#62
4-Bromofluorobenzene
Concen: 47.767 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.006 min
Lab File: VN081541.D
Acq: 22 Mar 2024 12:28

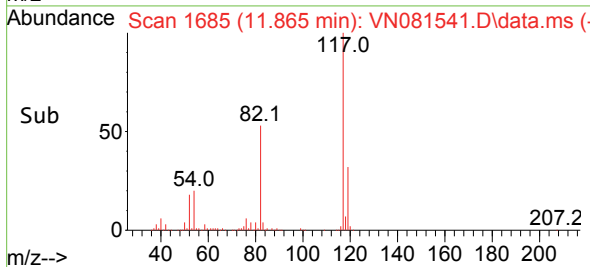
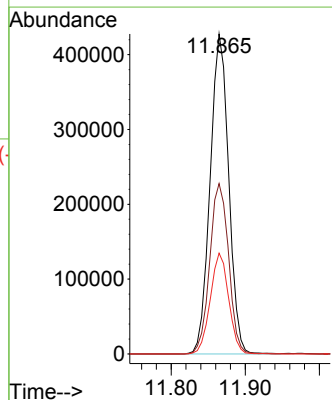
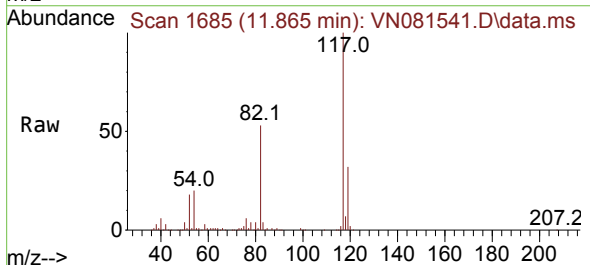
Instrument :
MSVOA_N
ClientSampleId :
S-4DL

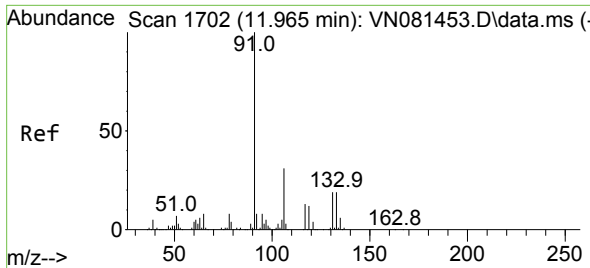
Tgt Ion: 95 Resp: 320831
Ion Ratio Lower Upper
95 100
174 76.0 0.0 120.4
176 75.6 0.0 121.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN081541.D
Acq: 22 Mar 2024 12:28

Tgt Ion: 117 Resp: 743550
Ion Ratio Lower Upper
117 100
82 53.2 52.7 79.1
119 31.5 25.3 37.9

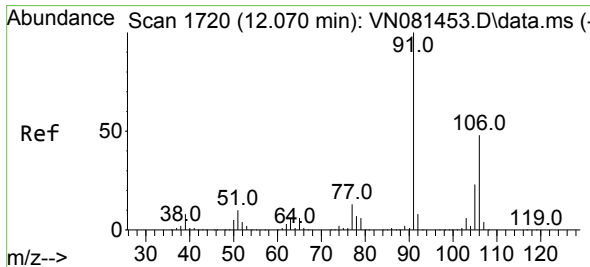
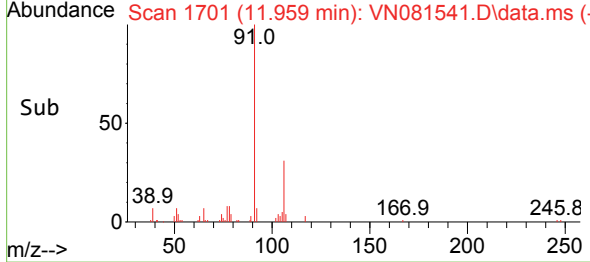
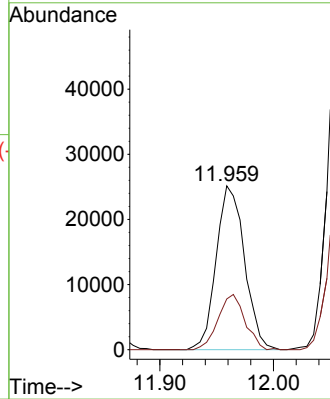
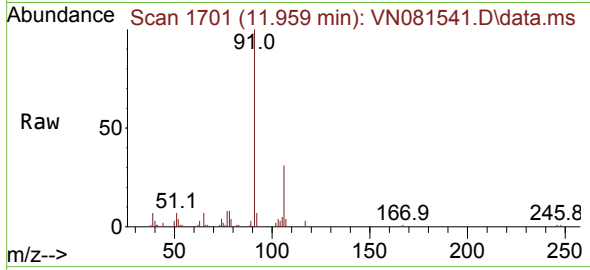




#67
Ethyl Benzene
Concen: 1.427 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN081541.D
Acq: 22 Mar 2024 12:28

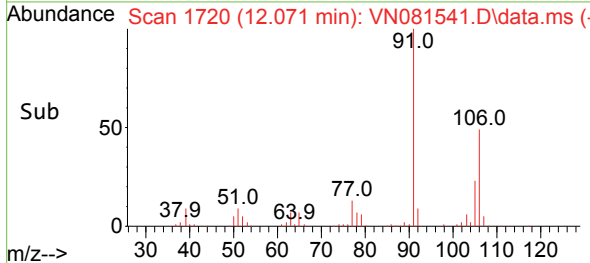
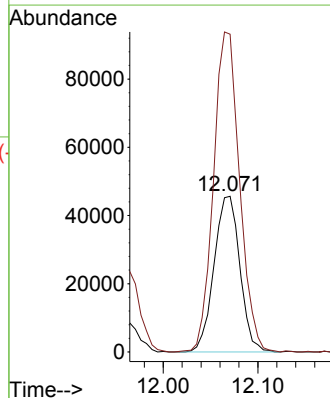
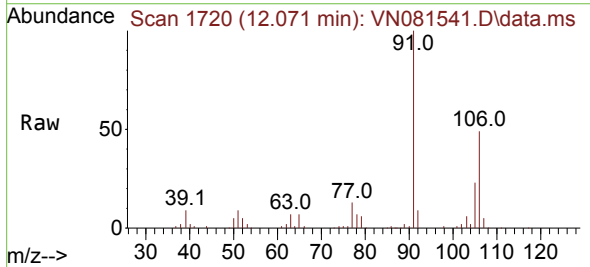
Instrument :
MSVOA_N
ClientSampleId :
S-4DL

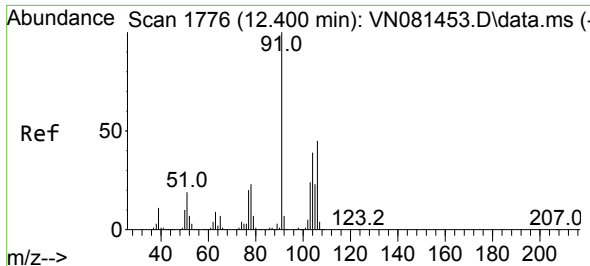
Tgt Ion: 91 Resp: 43576
Ion Ratio Lower Upper
91 100
106 30.9 23.8 35.6



#68
m/p-Xylenes
Concen: 7.556 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN081541.D
Acq: 22 Mar 2024 12:28

Tgt Ion:106 Resp: 86485
Ion Ratio Lower Upper
106 100
91 207.3 169.0 253.6

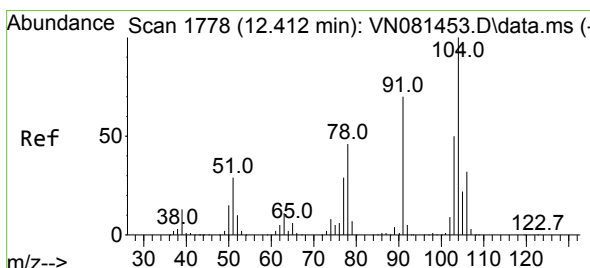
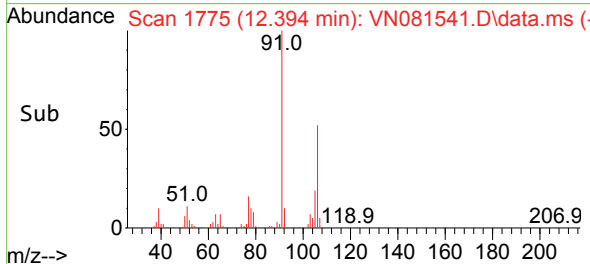
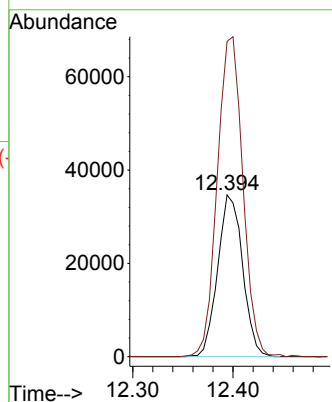
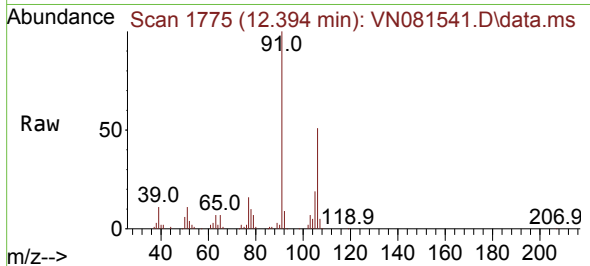




#69
o-Xylene
Concen: 5.327 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.006 min
Lab File: VN081541.D
Acq: 22 Mar 2024 12:28

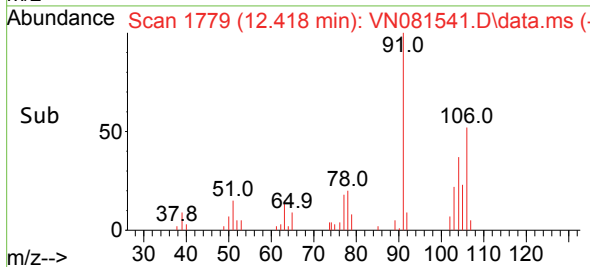
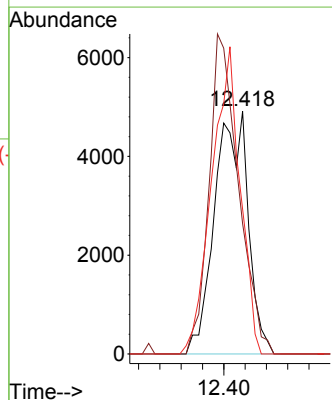
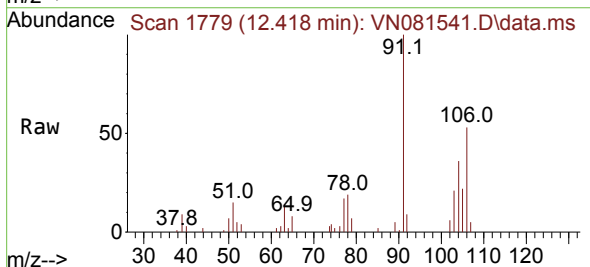
Instrument :
MSVOA_N
ClientSampleId :
S-4DL

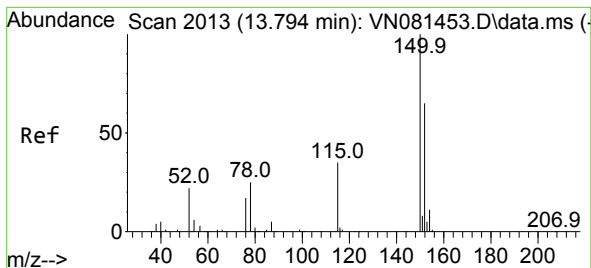
Tgt Ion:106 Resp: 59865
Ion Ratio Lower Upper
106 100
91 203.3 112.1 336.3



#70
Styrene
Concen: 0.586 ug/l
RT: 12.418 min Scan# 1779
Delta R.T. 0.006 min
Lab File: VN081541.D
Acq: 22 Mar 2024 12:28

Tgt Ion:104 Resp: 10616
Ion Ratio Lower Upper
104 100
78 0.0 43.8 65.8#
103 0.0 44.2 66.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 20

Delta R.T. -0.006 min

Lab File: VN081541.D

Acq: 22 Mar 2024 12:28

Instrument :

MSVOA_N

ClientSampleId :

S-4DL

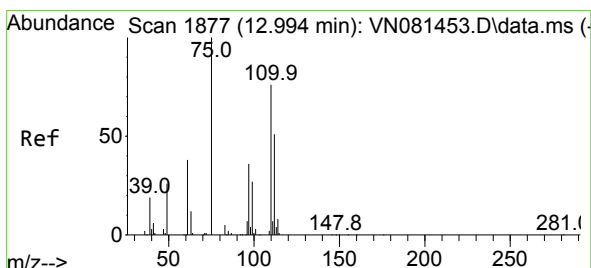
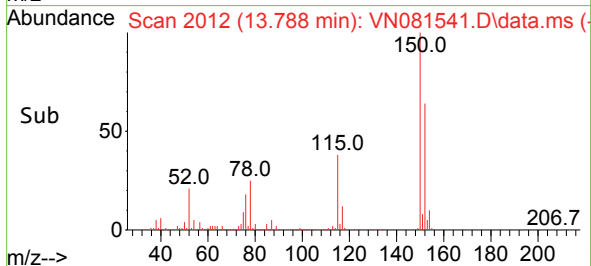
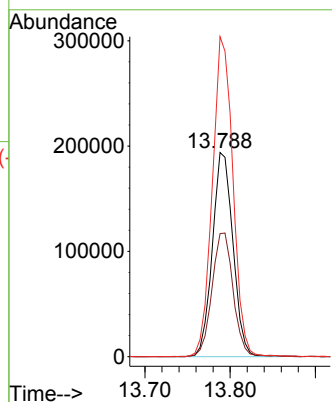
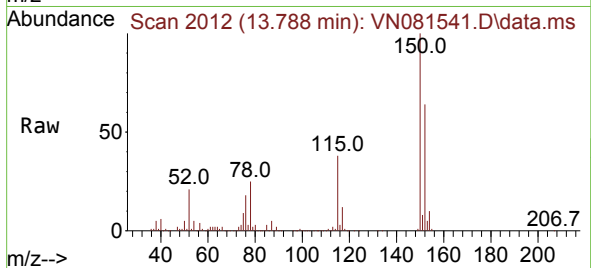
Tgt Ion:152 Resp: 324932

Ion Ratio Lower Upper

152 100

115 62.4 32.3 96.8

150 156.9 0.0 339.8



#76

1,2,3-Trichloropropane

Concen: 22.000 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN081541.D

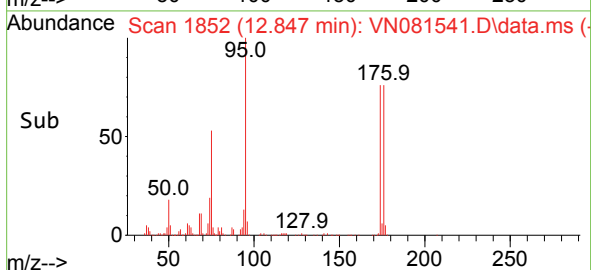
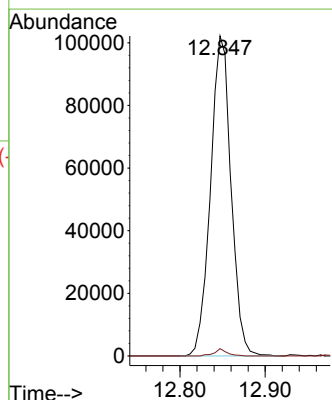
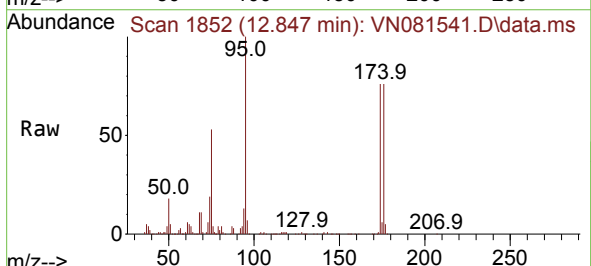
Acq: 22 Mar 2024 12:28

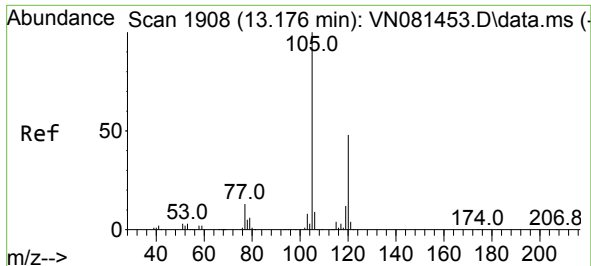
Tgt Ion: 75 Resp: 170994

Ion Ratio Lower Upper

75 100

77 1.4 91.0 272.8#

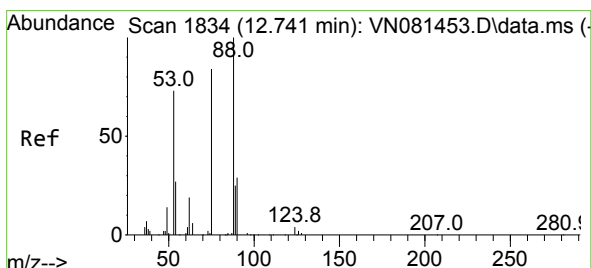
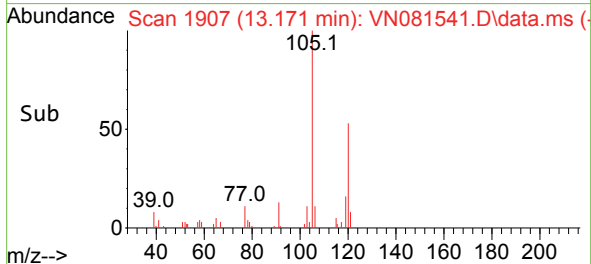
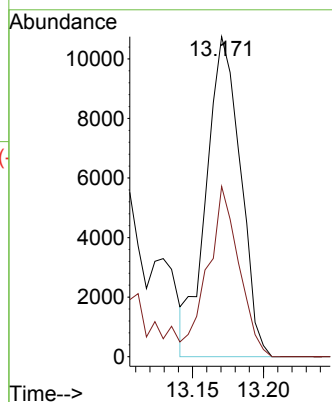
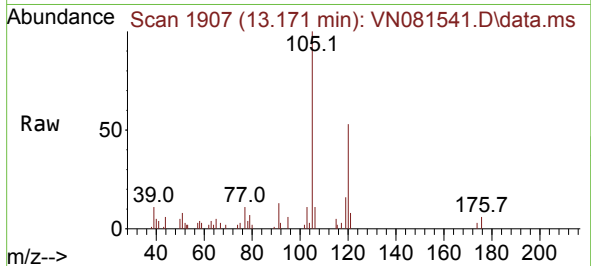




#80
1,3,5-Trimethylbenzene
Concen: 0.786 ug/l
RT: 13.171 min Scan# 1908
Delta R.T. -0.006 min
Lab File: VN081541.D
Acq: 22 Mar 2024 12:28

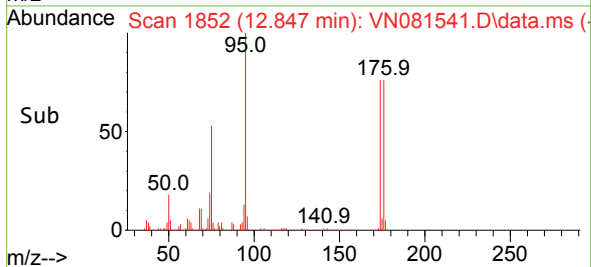
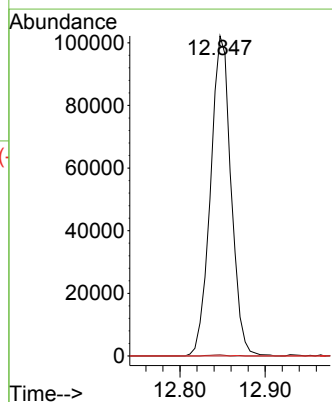
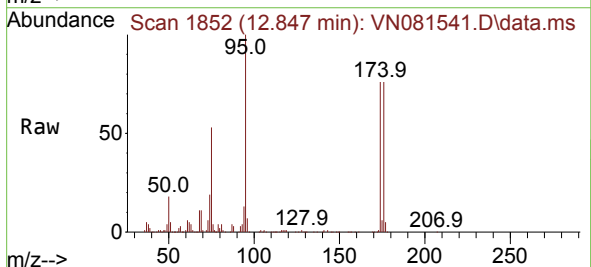
Instrument :
MSVOA_N
ClientSampleId :
S-4DL

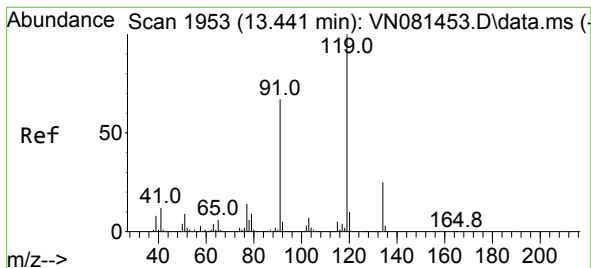
Tgt Ion:105 Resp: 17991
Ion Ratio Lower Upper
105 100
120 48.5 23.0 69.0



#81
trans-1,4-Dichloro-2-butene
Concen: 59.451 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.106 min
Lab File: VN081541.D
Acq: 22 Mar 2024 12:28

Tgt Ion: 75 Resp: 170994
Ion Ratio Lower Upper
75 100
53 0.3 71.4 107.2#
89 0.0 33.4 50.0#





#83

tert-Butylbenzene

Concen: 0.324 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.041 min

Lab File: VN081541.D

Acq: 22 Mar 2024 12:28

Instrument :

MSVOA_N

ClientSampleId :

S-4DL

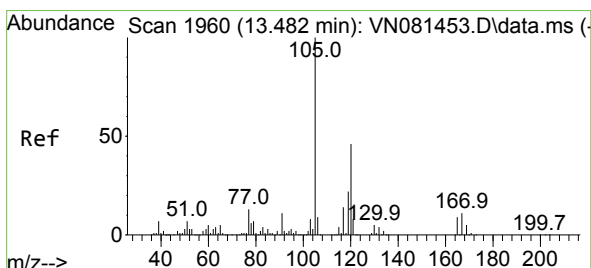
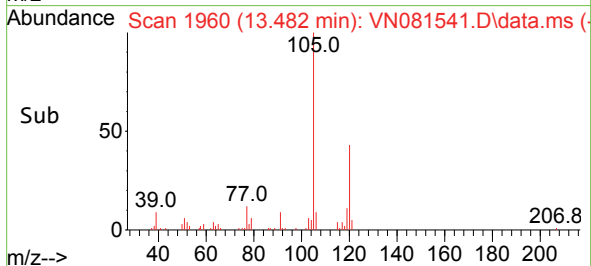
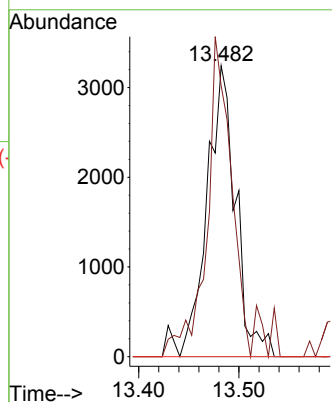
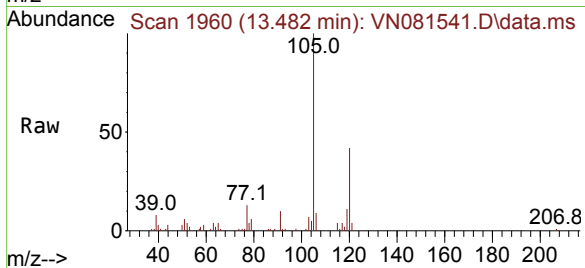
Tgt Ion:119 Resp: 6400

Ion Ratio Lower Upper

119 100

91 93.9 36.8 110.4

134 0.0 12.4 37.4#



#84

1,2,4-Trimethylbenzene

Concen: 2.174 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.000 min

Lab File: VN081541.D

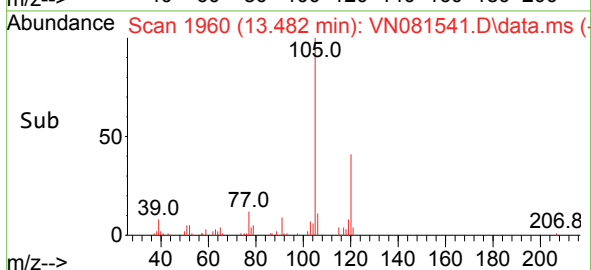
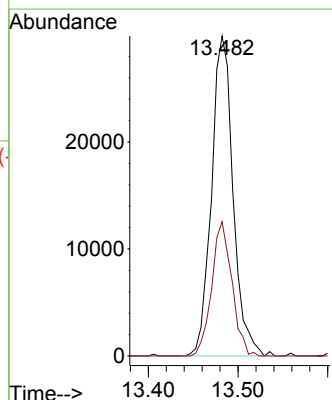
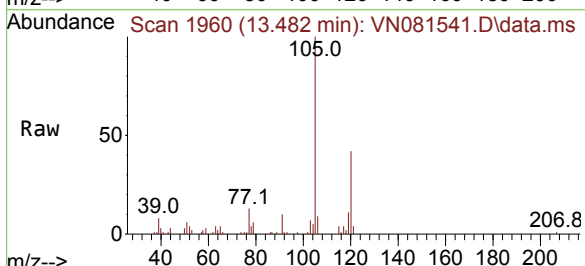
Acq: 22 Mar 2024 12:28

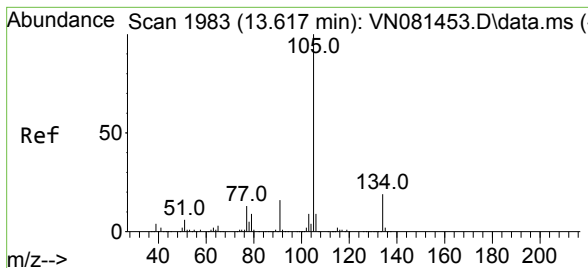
Tgt Ion:105 Resp: 49993

Ion Ratio Lower Upper

105 100

120 39.2 20.9 62.7





#85

sec-Butylbenzene

Concen: 1.773 ug/l

RT: 13.482 min Scan# 1983

Delta R.T. -0.135 min

Lab File: VN081541.D

Acq: 22 Mar 2024 12:28

Instrument :

MSVOA_N

ClientSampleId :

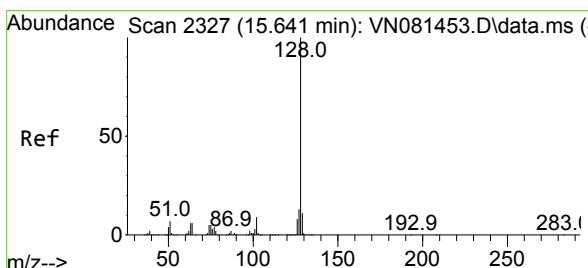
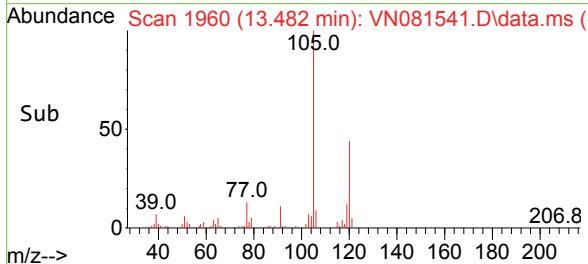
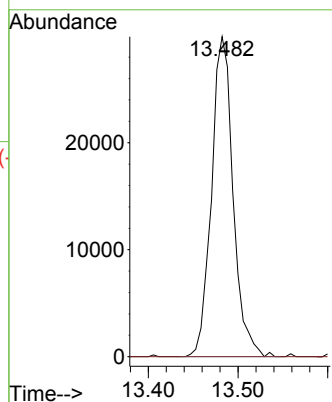
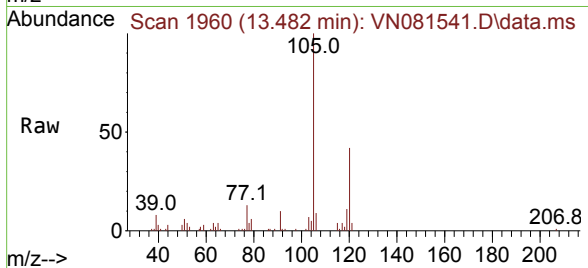
S-4DL

Tgt Ion:105 Resp: 49993

Ion Ratio Lower Upper

105 100

134 0.0 8.6 25.8#



#95

Naphthalene

Concen: 31.512 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. 0.000 min

Lab File: VN081541.D

Acq: 22 Mar 2024 12:28

Tgt Ion:128 Resp: 714360

Ion Ratio Lower Upper

128 100

127 13.0 10.0 15.0

129 10.4 8.7 13.1

