

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032224\
 Data File : VN081545.D
 Acq On : 22 Mar 2024 14:03
 Operator : JC\MD
 Sample : P1798-12DL 50X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S-12DL

Quant Time: Mar 23 00:14:04 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)

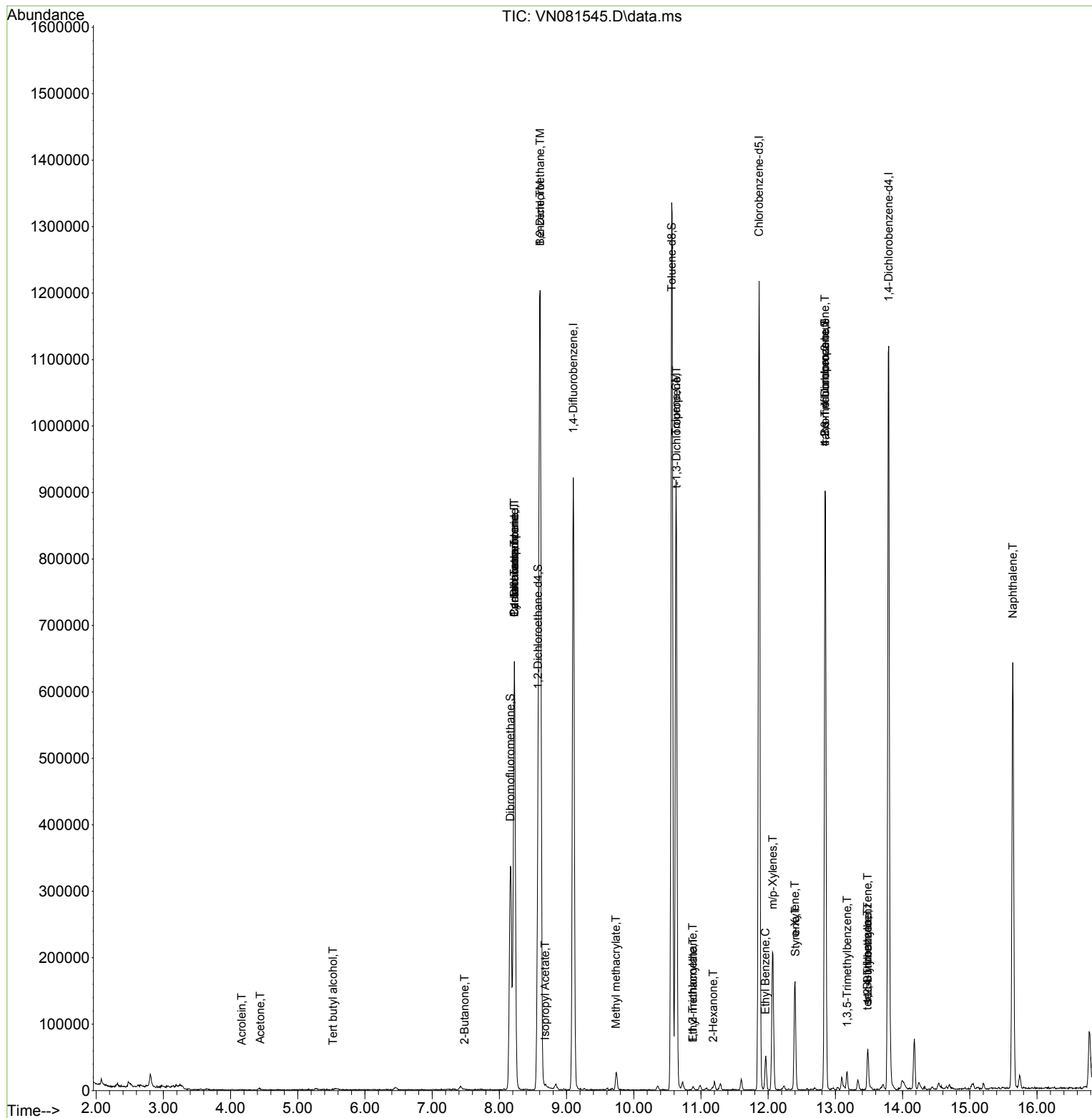
Internal Standards						
1) Pentafluorobenzene	8.224	168	458687	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	9.100	114	813217	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	724575	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	304516	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	292923	50.077	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.160%			
35) Dibromofluoromethane	8.165	113	251193	48.944	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.880%			
50) Toluene-d8	10.565	98	959564	51.722	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.440%			
62) 4-Bromofluorobenzene	12.847	95	314557	48.118	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 96.240%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.524	59	272	0.267	ug/l #	72
13) Acrolein	4.165	56	191	0.209	ug/l #	1
16) Acetone	4.442	43	4496	2.378	ug/l #	80
25) 2-Butanone	7.483	43	1114	0.344	ug/l #	69
31) Cyclohexane	8.224	56	12350	1.297	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	37680	4.363	ug/l #	51
38) Carbon Tetrachloride	8.224	117	49349	5.216	ug/l #	18
40) Benzene	8.606	78	1213333	48.051	ug/l	99
42) 1,2-Dichloroethane	8.606	62	11057	1.244	ug/l	77
43) Isopropyl Acetate	8.682	43	6008	0.490	ug/l #	83
48) Methyl methacrylate	9.735	41	3237	0.572	ug/l #	48
52) Toluene	10.629	92	402579	25.084	ug/l	99
53) t-1,3-Dichloropropene	10.635	75	5248	0.535	ug/l #	1
55) 1,1,2-Trichloroethane	10.876	97	3971	0.615	ug/l #	13
56) Ethyl methacrylate	10.882	69	65	0.578	ug/l #	20
59) 2-Hexanone	11.182	43	2476	0.448	ug/l #	26
67) Ethyl Benzene	11.959	91	35092	1.179	ug/l	93
68) m/p-Xylenes	12.070	106	67661	6.066	ug/l	96
69) o-Xylene	12.400	106	46348	4.232	ug/l	90
70) Styrene	12.406	104	7935	0.449	ug/l #	19
76) 1,2,3-Trichloropropane	12.847	75	166128	22.807	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.176	105	13828	0.645	ug/l	88
81) trans-1,4-Dichloro-2-b...	12.847	75	166128	61.631	ug/l #	14
83) tert-Butylbenzene	13.476	119	5086	0.275	ug/l #	83
84) 1,2,4-Trimethylbenzene	13.482	105	35988	1.670	ug/l	99
85) sec-Butylbenzene	13.482	105	35988	1.362	ug/l #	60
95) Naphthalene	15.641	128	596558	28.080	ug/l	99

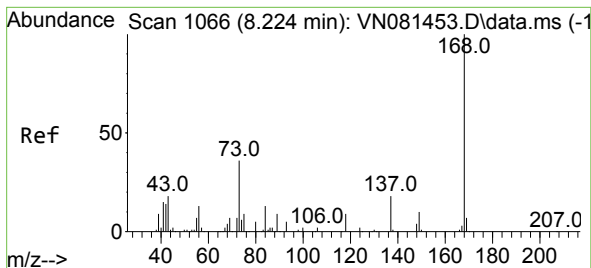
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032224\
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Quant Time: Mar 23 00:14:04 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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN081545.D

Acq: 22 Mar 2024 14:03

Instrument :

MSVOA_N

ClientSampleId :

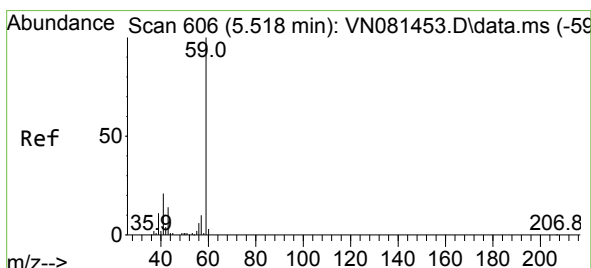
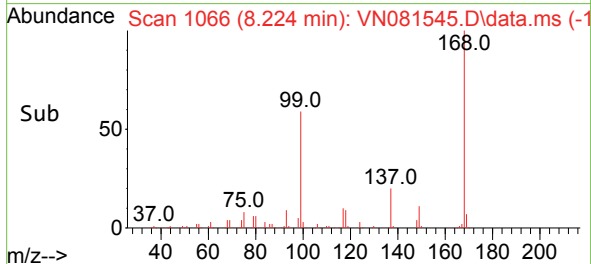
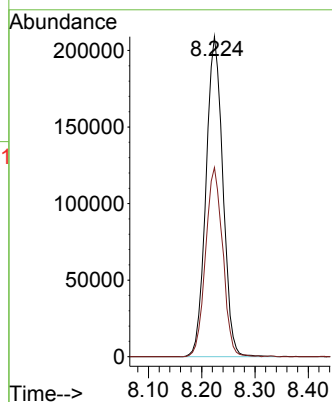
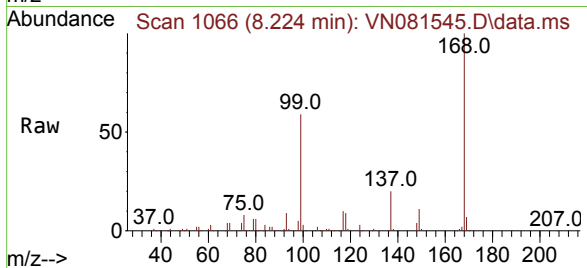
S-12DL

Tgt Ion:168 Resp: 458687

Ion Ratio Lower Upper

168 100

99 59.1 59.9 89.9#



#11

Tert butyl alcohol

Concen: 0.267 ug/l

RT: 5.524 min Scan# 607

Delta R.T. 0.006 min

Lab File: VN081545.D

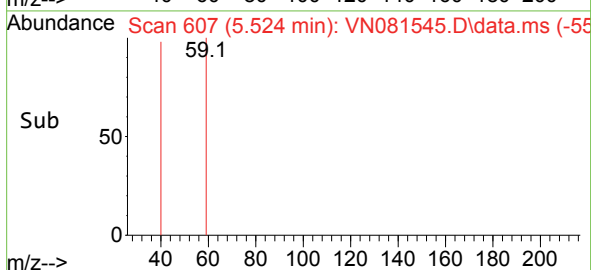
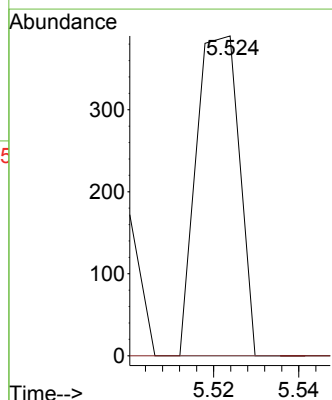
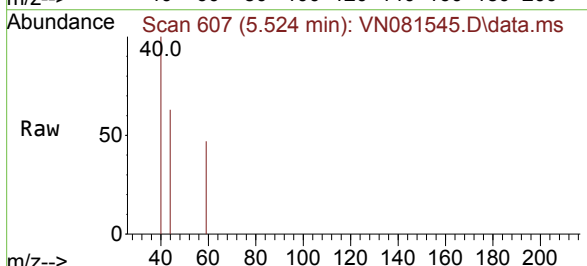
Acq: 22 Mar 2024 14:03

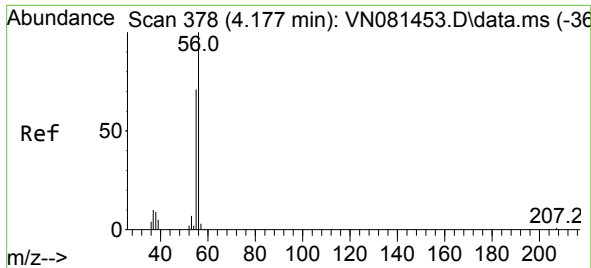
Tgt Ion: 59 Resp: 272

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#

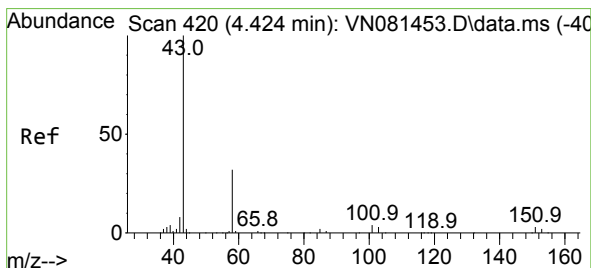
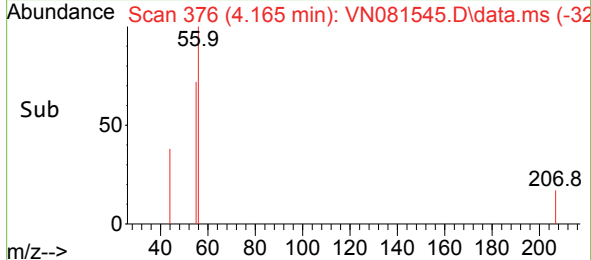
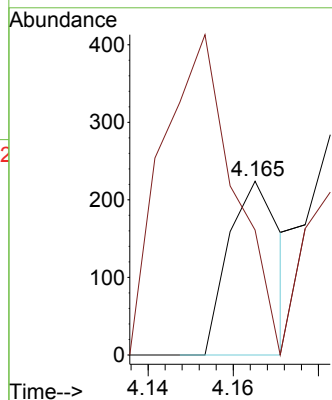
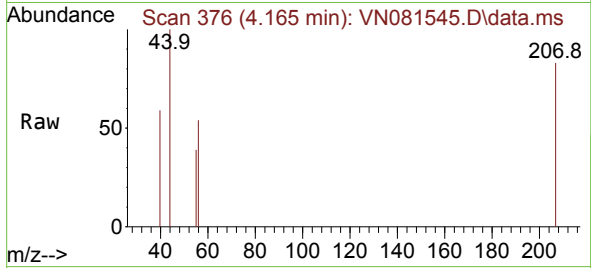




#13
Acrolein
Concen: 0.209 ug/l
RT: 4.165 min Scan# 31
Delta R.T. -0.012 min
Lab File: VN081545.D
Acq: 22 Mar 2024 14:03

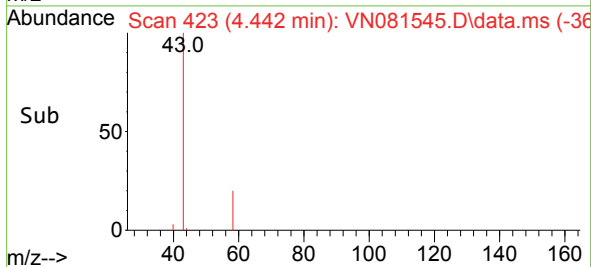
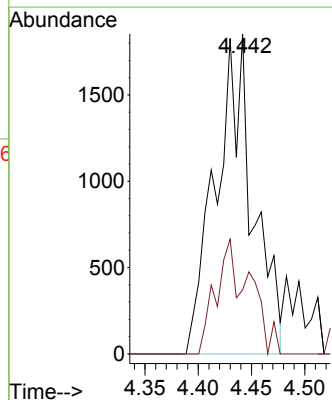
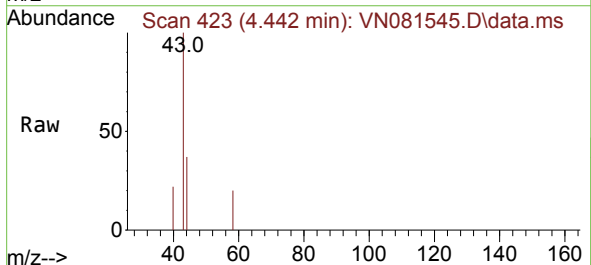
Instrument :
MSVOA_N
ClientSampleId :
S-12DL

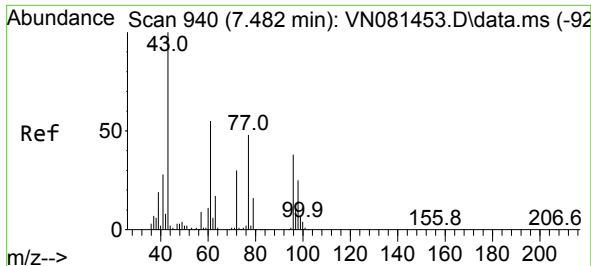
Tgt Ion: 56 Resp: 191
Ion Ratio Lower Upper
56 100
55 253.4 55.3 82.9#



#16
Acetone
Concen: 2.378 ug/l
RT: 4.442 min Scan# 423
Delta R.T. 0.018 min
Lab File: VN081545.D
Acq: 22 Mar 2024 14:03

Tgt Ion: 43 Resp: 4496
Ion Ratio Lower Upper
43 100
58 20.0 24.8 37.2#

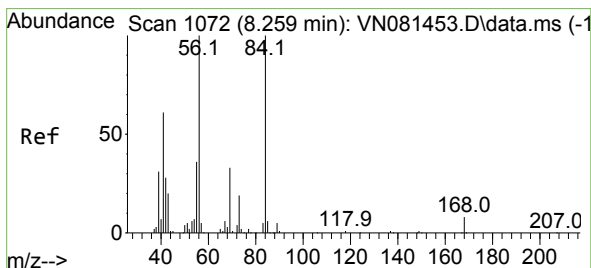
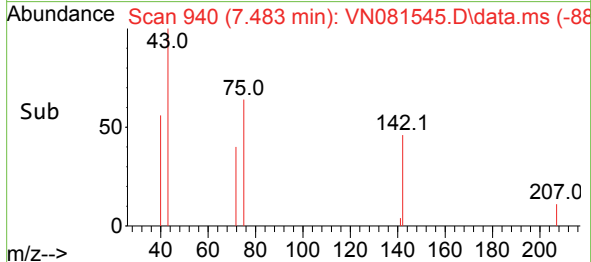
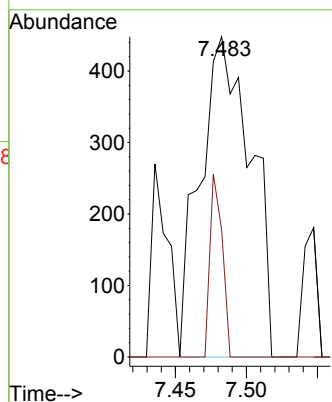
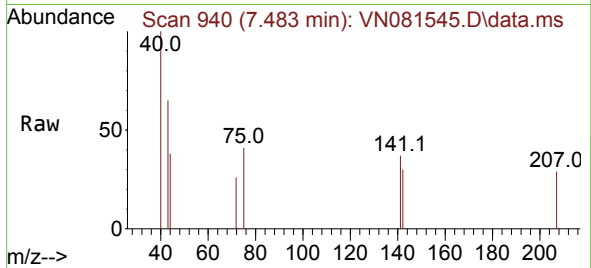




#25
2-Butanone
Concen: 0.344 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN081545.D
Acq: 22 Mar 2024 14:03

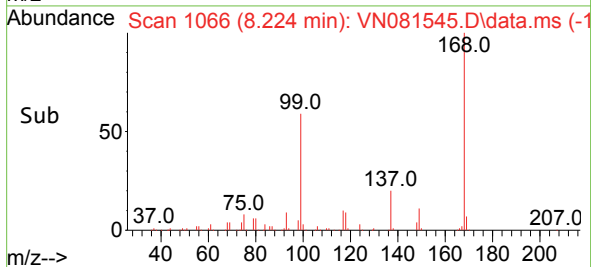
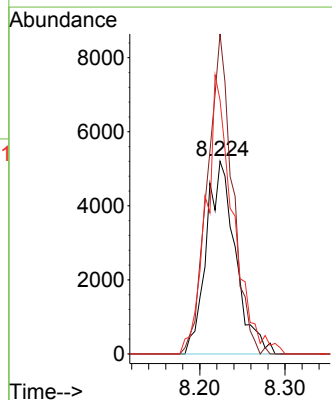
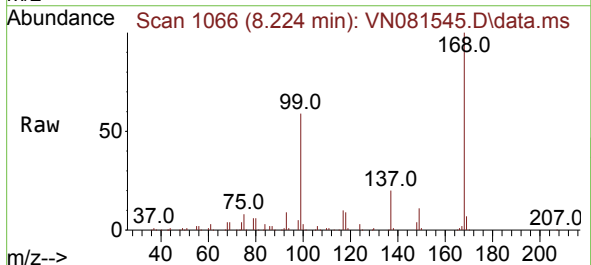
Instrument :
MSVOA_N
ClientSampleId :
S-12DL

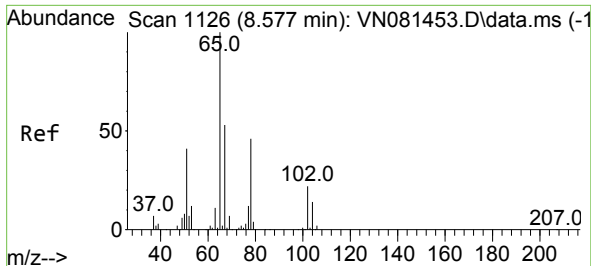
Tgt Ion: 43 Resp: 1114
Ion Ratio Lower Upper
43 100
72 39.7 19.5 29.3#



#31
Cyclohexane
Concen: 1.297 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.035 min
Lab File: VN081545.D
Acq: 22 Mar 2024 14:03

Tgt Ion: 56 Resp: 12350
Ion Ratio Lower Upper
56 100
69 166.0 20.1 30.1#
84 131.7 56.9 85.3#





#33

1,2-Dichloroethane-d4

Concen: 50.077 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN081545.D

Acq: 22 Mar 2024 14:03

Instrument :

MSVOA_N

ClientSampleId :

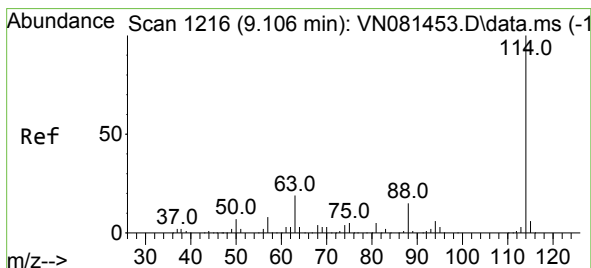
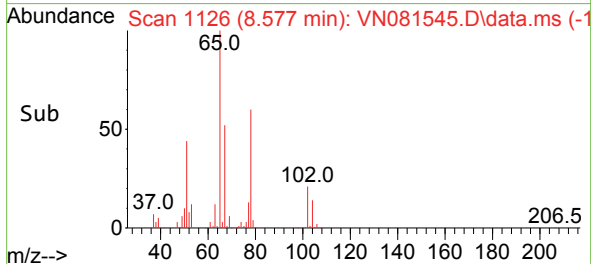
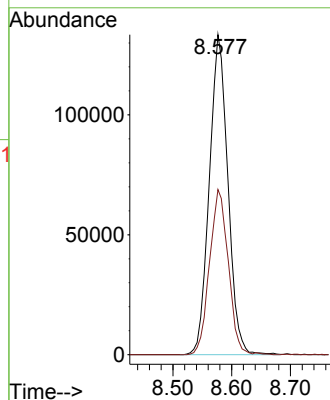
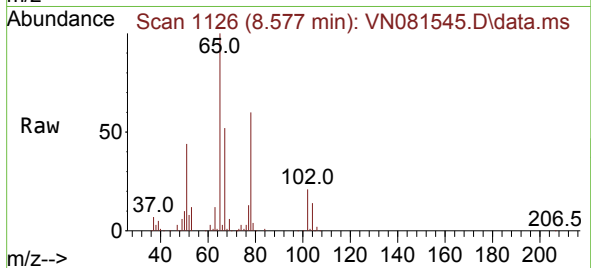
S-12DL

Tgt Ion: 65 Resp: 292923

Ion Ratio Lower Upper

65 100

67 51.9 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.006 min

Lab File: VN081545.D

Acq: 22 Mar 2024 14:03

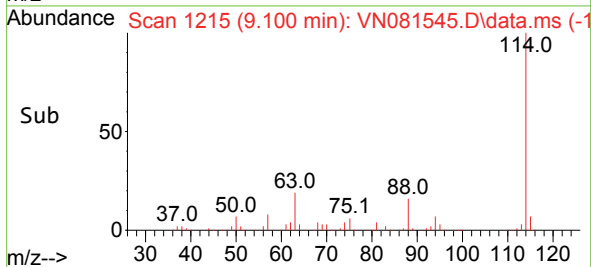
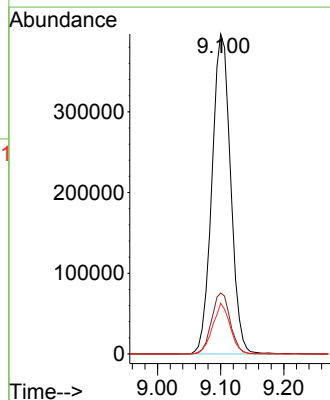
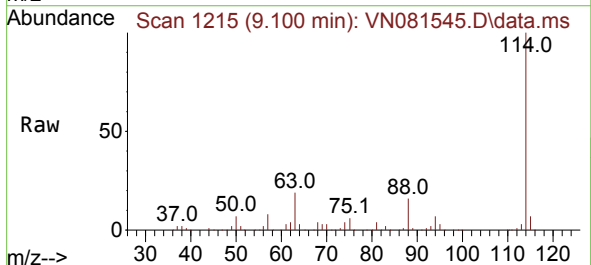
Tgt Ion: 114 Resp: 813217

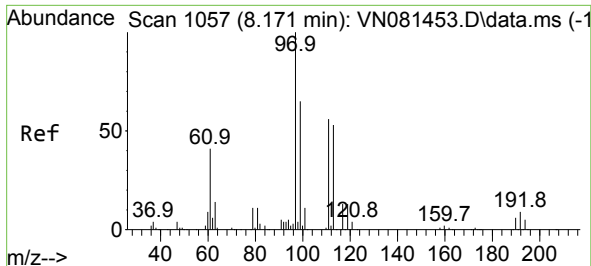
Ion Ratio Lower Upper

114 100

63 19.1 0.0 48.0

88 15.8 0.0 34.8

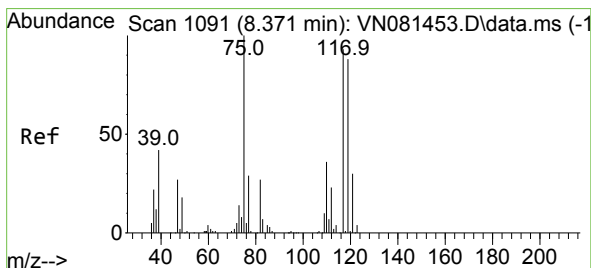
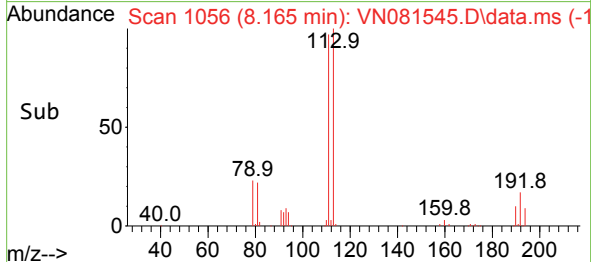
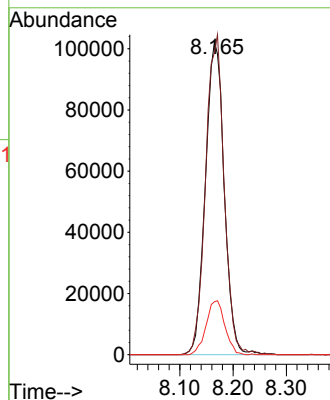
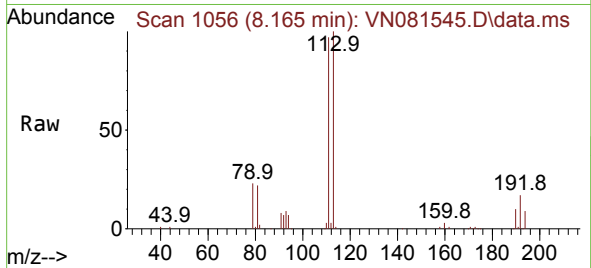




#35
Dibromofluoromethane
Concen: 48.944 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN081545.D
Acq: 22 Mar 2024 14:03

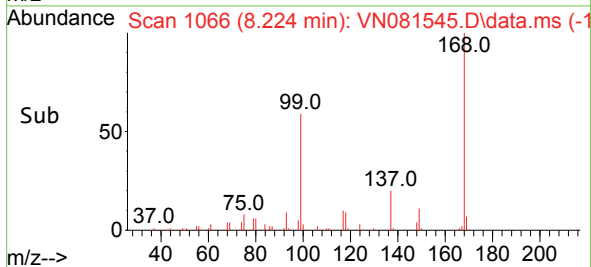
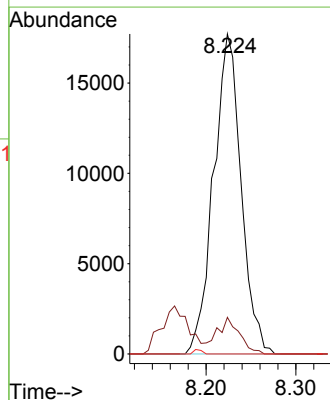
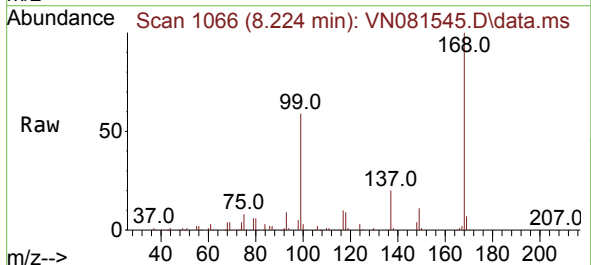
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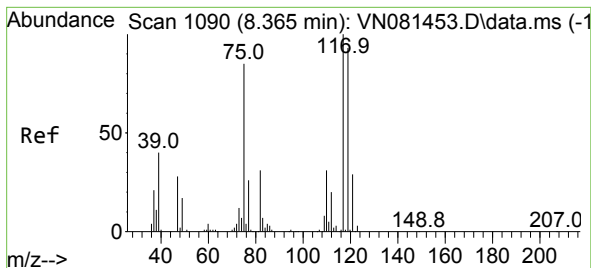
Tgt Ion:113 Resp: 251193
Ion Ratio Lower Upper
113 100
111 100.8 82.2 123.4
192 17.2 12.5 18.7



#36
1,1-Dichloropropene
Concen: 4.363 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.147 min
Lab File: VN081545.D
Acq: 22 Mar 2024 14:03

Tgt Ion: 75 Resp: 37680
Ion Ratio Lower Upper
75 100
110 9.2 16.0 48.0#
77 0.0 25.8 38.6#





#38

Carbon Tetrachloride

Concen: 5.216 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.141 min

Lab File: VN081545.D

Acq: 22 Mar 2024 14:03

Instrument :

MSVOA_N

ClientSampleId :

S-12DL

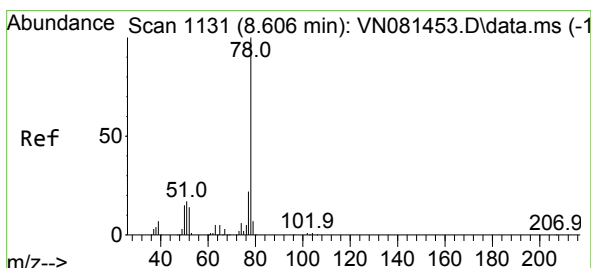
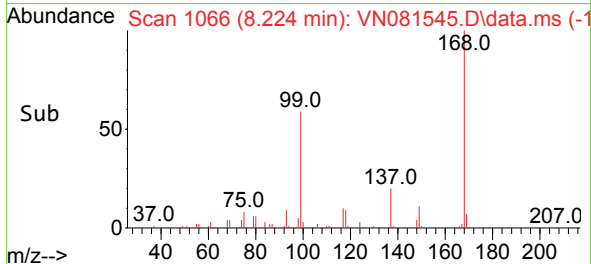
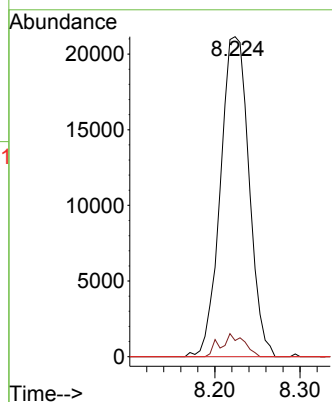
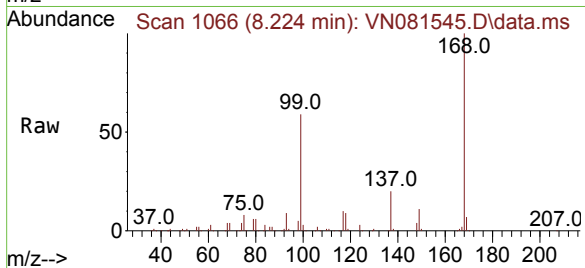
Tgt Ion:117 Resp: 49349

Ion Ratio Lower Upper

117 100

119 5.0 73.4 110.2#

121 0.0 24.4 36.6#



#40

Benzene

Concen: 48.051 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VN081545.D

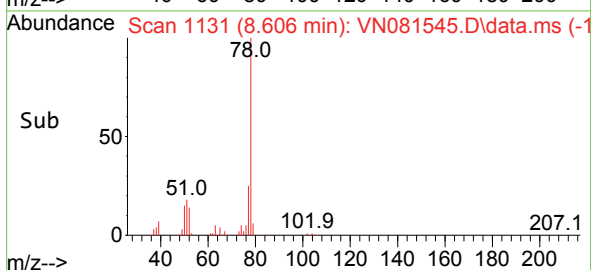
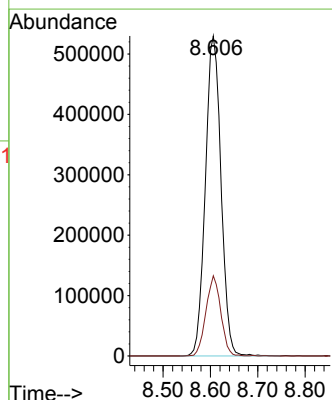
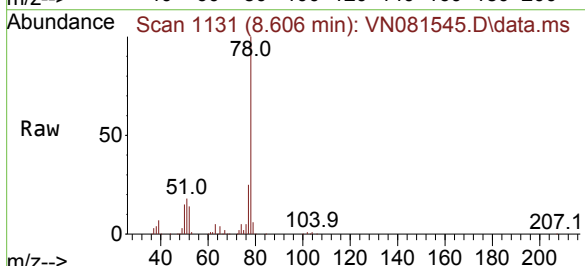
Acq: 22 Mar 2024 14:03

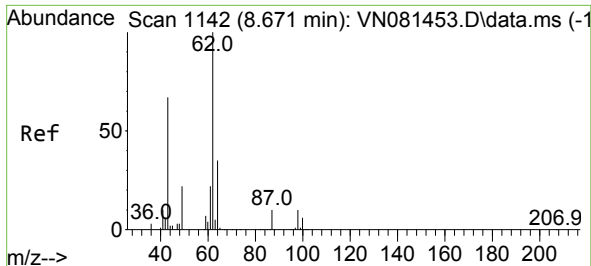
Tgt Ion: 78 Resp: 1213333

Ion Ratio Lower Upper

78 100

77 25.1 20.4 30.6





#42

1,2-Dichloroethane

Concen: 1.244 ug/l

RT: 8.606 min Scan# 11

Delta R.T. -0.065 min

Lab File: VN081545.D

Acq: 22 Mar 2024 14:03

Instrument :

MSVOA_N

ClientSampleId :

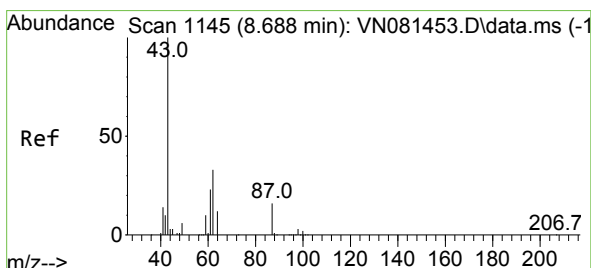
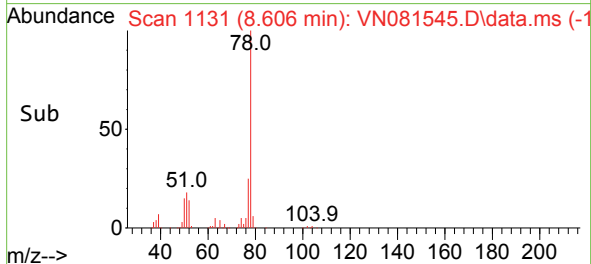
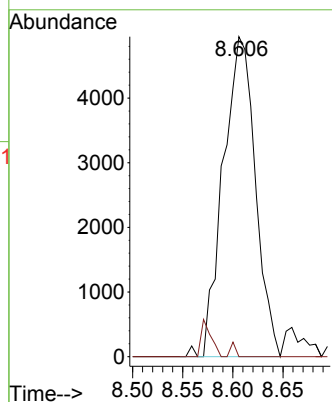
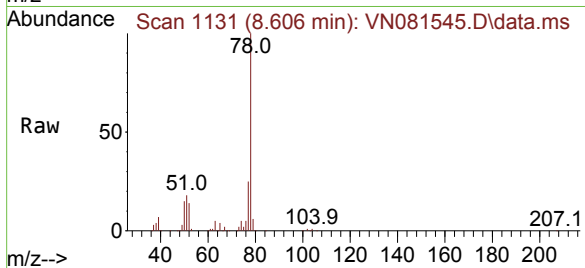
S-12DL

Tgt Ion: 62 Resp: 11057

Ion Ratio Lower Upper

62 100

98 0.7 0.0 18.0



#43

Isopropyl Acetate

Concen: 0.490 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.006 min

Lab File: VN081545.D

Acq: 22 Mar 2024 14:03

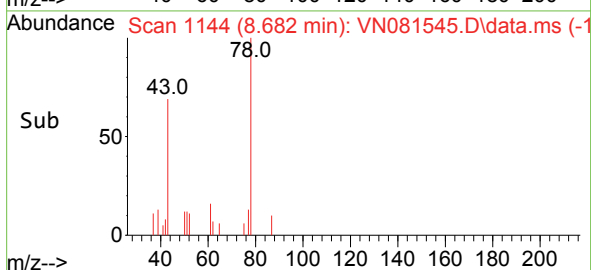
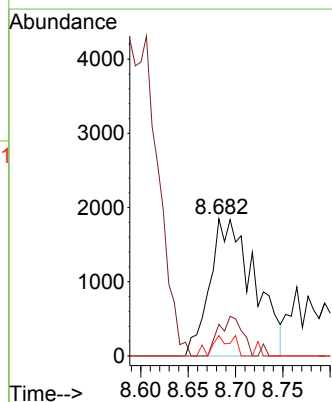
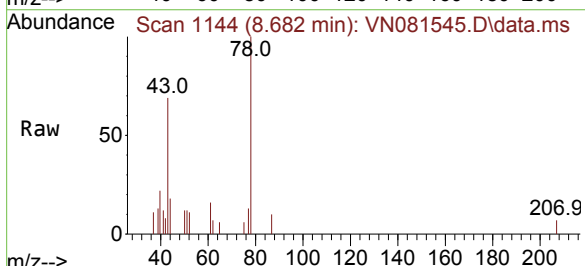
Tgt Ion: 43 Resp: 6008

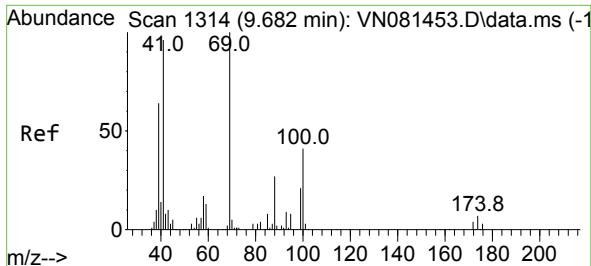
Ion Ratio Lower Upper

43 100

61 15.3 19.9 29.9#

87 7.1 9.0 13.6#

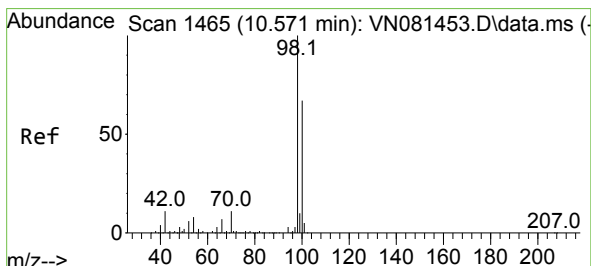
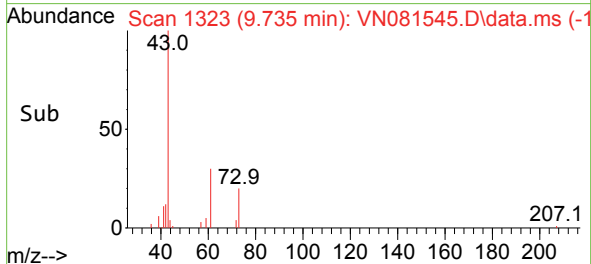
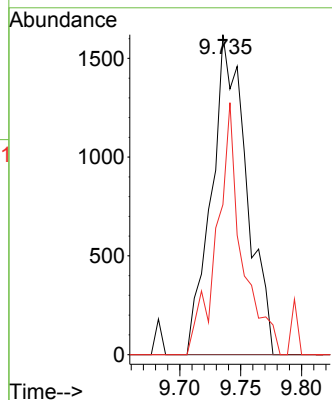
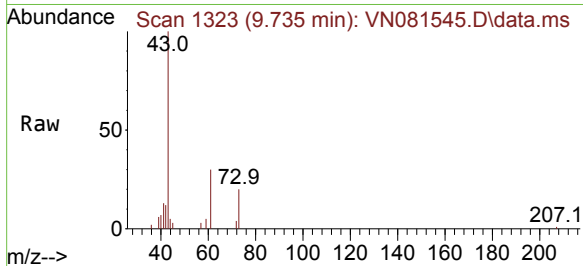




#48
Methyl methacrylate
Concen: 0.572 ug/l
RT: 9.735 min Scan# 11
Delta R.T. 0.053 min
Lab File: VN081545.D
Acq: 22 Mar 2024 14:03

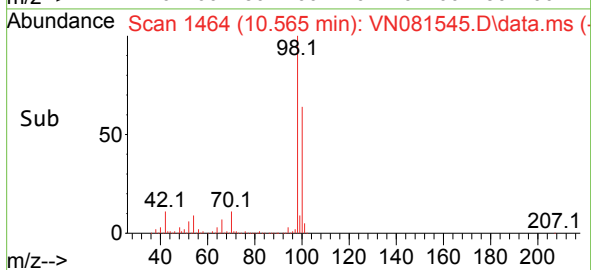
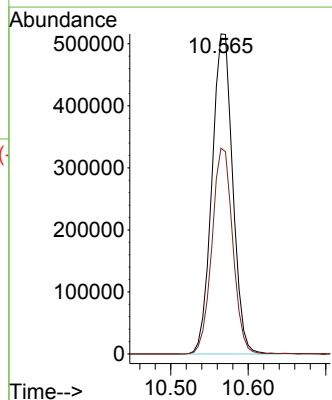
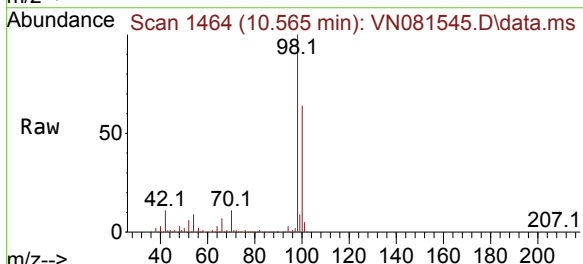
Instrument :
MSVOA_N
ClientSampleId :
S-12DL

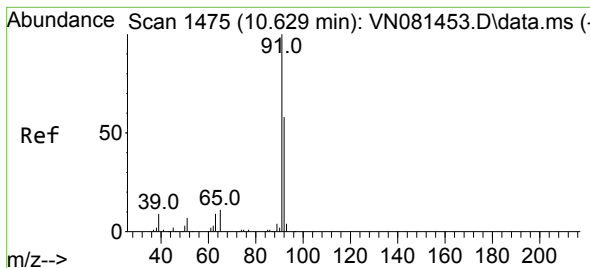
Tgt Ion: 41 Resp: 3237
Ion Ratio Lower Upper
41 100
69 0.0 62.2 93.2#
39 56.7 47.6 71.4



#50
Toluene-d8
Concen: 51.722 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN081545.D
Acq: 22 Mar 2024 14:03

Tgt Ion: 98 Resp: 959564
Ion Ratio Lower Upper
98 100
100 64.5 51.4 77.0





#52

Toluene

Concen: 25.084 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VN081545.D

Acq: 22 Mar 2024 14:03

Instrument :

MSVOA_N

ClientSampleId :

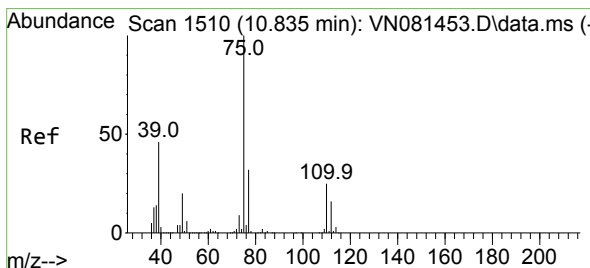
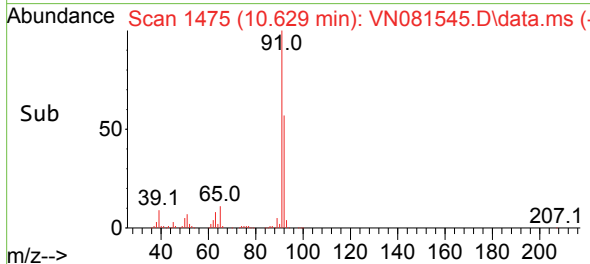
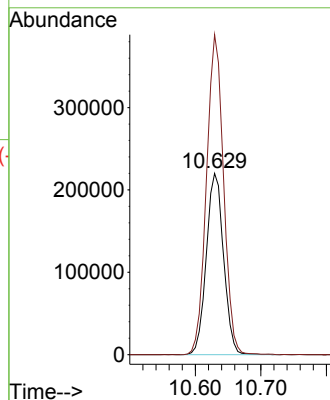
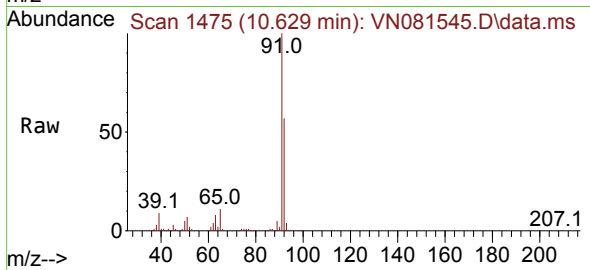
S-12DL

Tgt Ion: 92 Resp: 402579

Ion Ratio Lower Upper

92 100

91 175.0 139.4 209.0



#53

t-1,3-Dichloropropene

Concen: 0.535 ug/l

RT: 10.635 min Scan# 1476

Delta R.T. -0.200 min

Lab File: VN081545.D

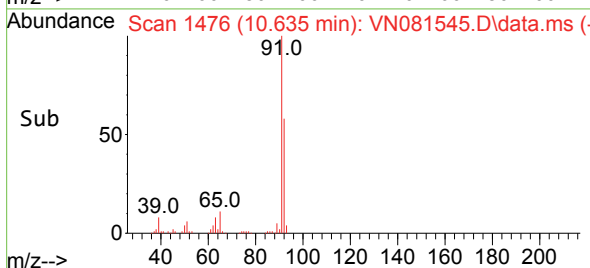
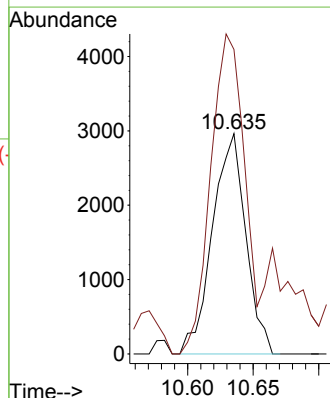
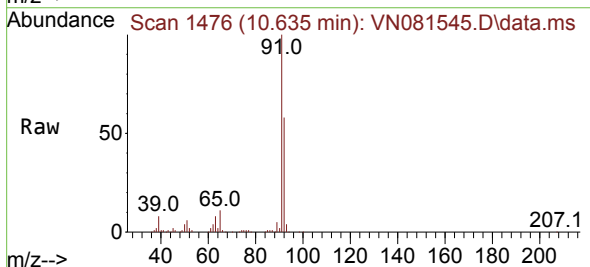
Acq: 22 Mar 2024 14:03

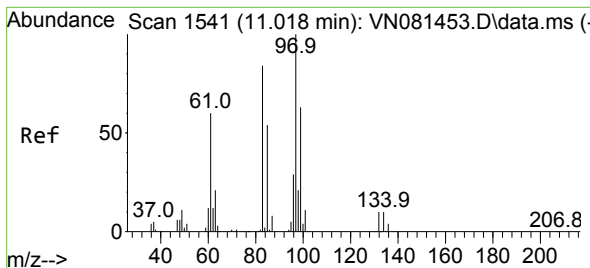
Tgt Ion: 75 Resp: 5248

Ion Ratio Lower Upper

75 100

77 138.2 25.5 38.3#





#55

1,1,2-Trichloroethane

Concen: 0.615 ug/l

RT: 10.876 min Scan# 1517

Delta R.T. -0.141 min

Lab File: VN081545.D

Acq: 22 Mar 2024 14:03

Instrument :

MSVOA_N

ClientSampleId :

S-12DL

Tgt Ion: 97 Resp: 3971

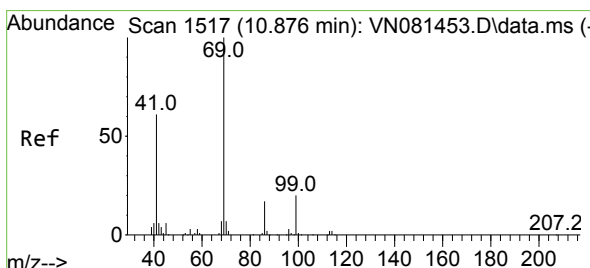
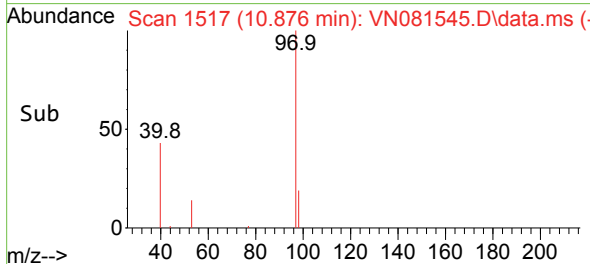
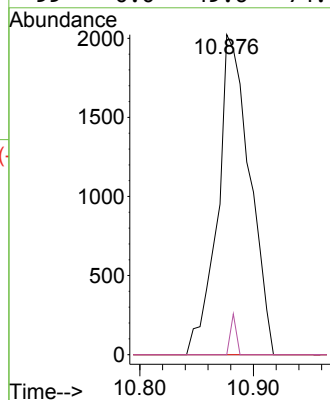
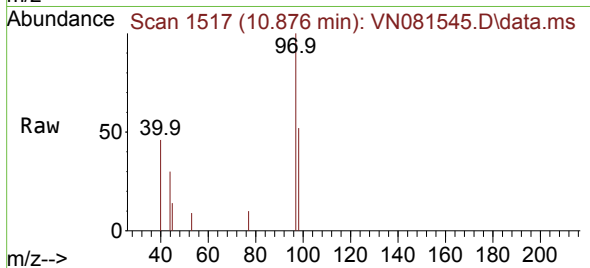
Ion Ratio Lower Upper

97 100

83 0.0 72.9 109.3#

85 0.0 50.2 75.2#

99 0.0 49.6 74.4#



#56

Ethyl methacrylate

Concen: 0.578 ug/l

RT: 10.882 min Scan# 1518

Delta R.T. 0.006 min

Lab File: VN081545.D

Acq: 22 Mar 2024 14:03

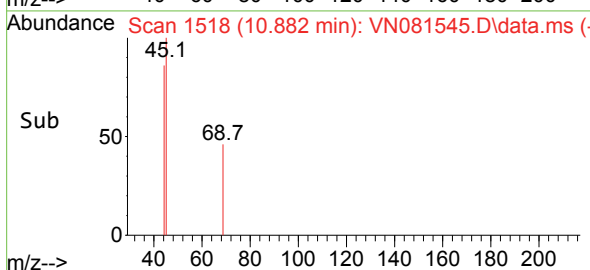
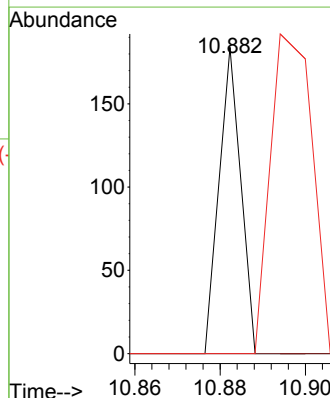
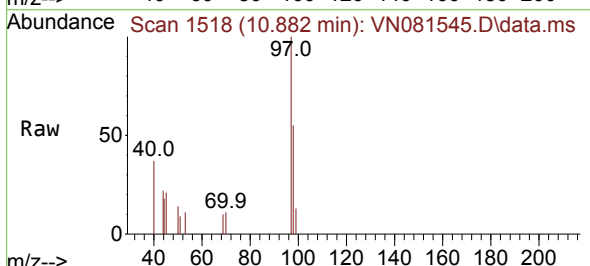
Tgt Ion: 69 Resp: 65

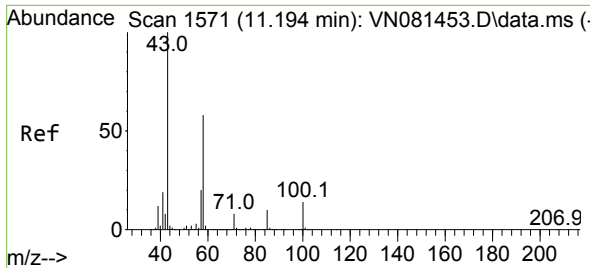
Ion Ratio Lower Upper

69 100

41 0.0 61.0 91.6#

39 0.0 31.8 47.6#

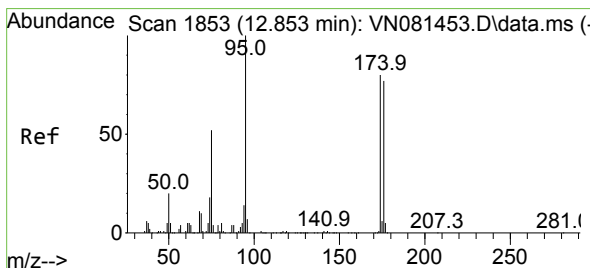
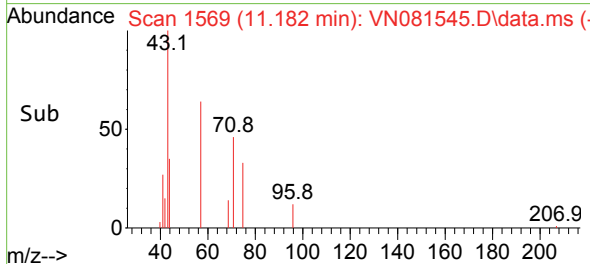
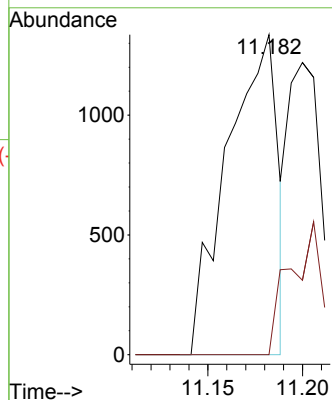
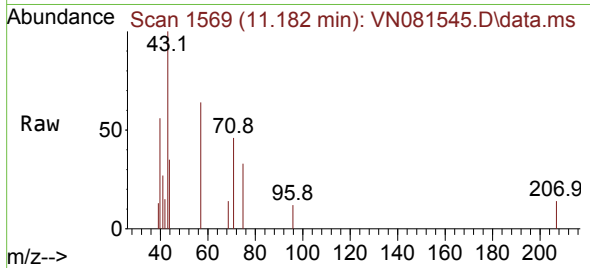




#59
2-Hexanone
Concen: 0.448 ug/l
RT: 11.182 min Scan# 1569
Delta R.T. -0.012 min
Lab File: VN081545.D
Acq: 22 Mar 2024 14:03

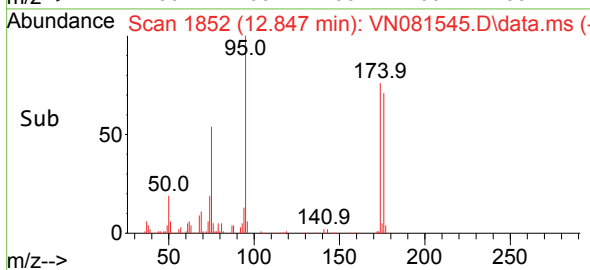
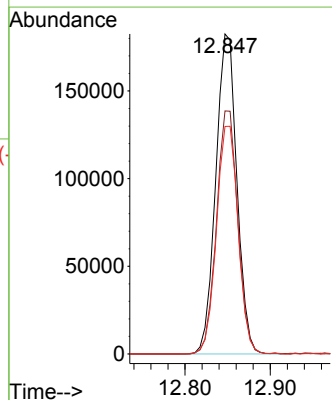
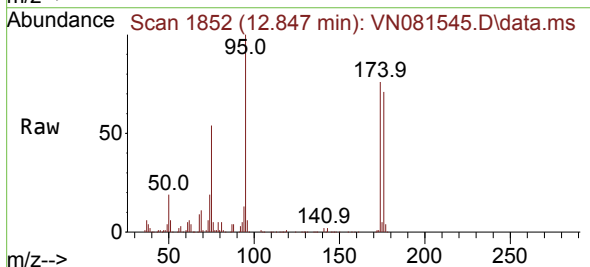
Instrument :
MSVOA_N
ClientSampleId :
S-12DL

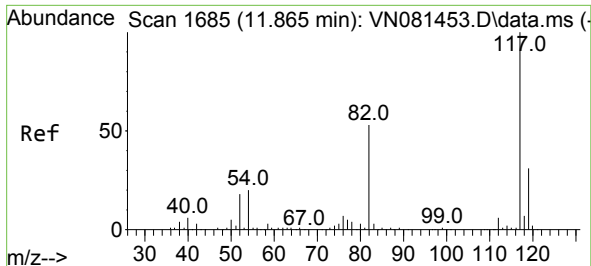
Tgt Ion: 43 Resp: 2476
Ion Ratio Lower Upper
43 100
58 0.0 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 48.118 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.006 min
Lab File: VN081545.D
Acq: 22 Mar 2024 14:03

Tgt Ion: 95 Resp: 314557
Ion Ratio Lower Upper
95 100
174 76.7 0.0 120.4
176 72.9 0.0 121.0

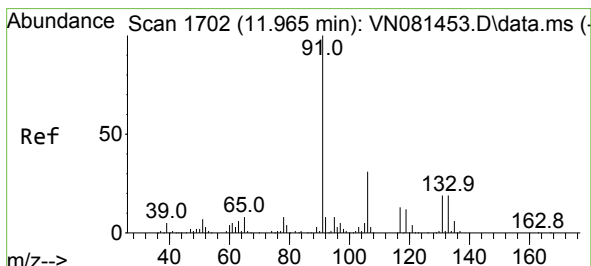
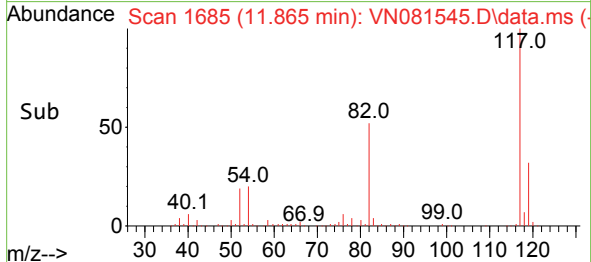
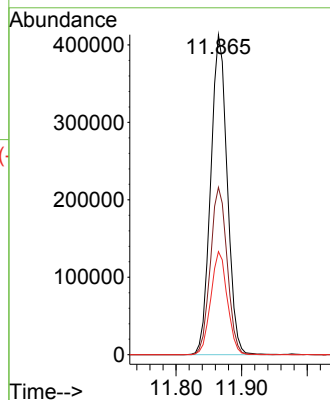
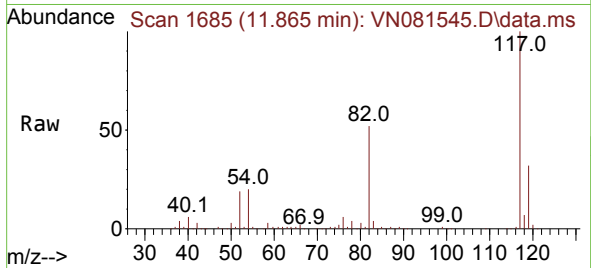




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN081545.D
Acq: 22 Mar 2024 14:03

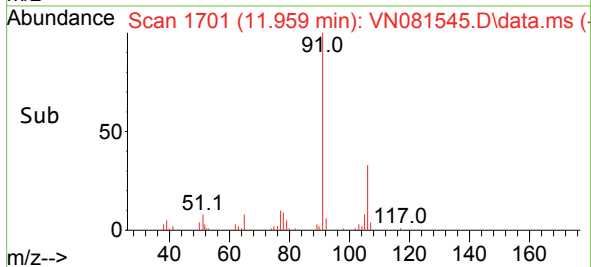
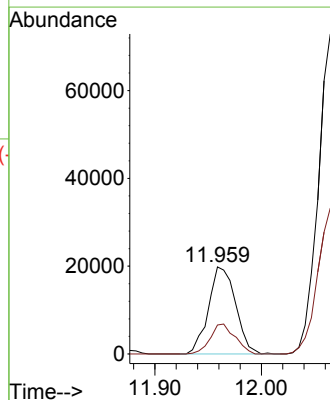
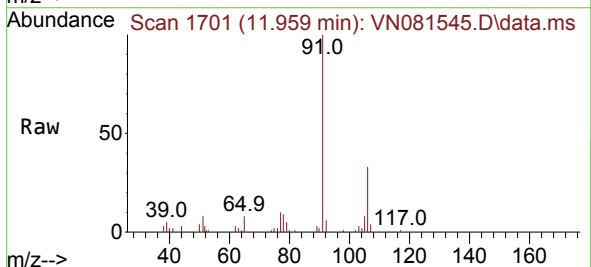
Instrument :
MSVOA_N
ClientSampleId :
S-12DL

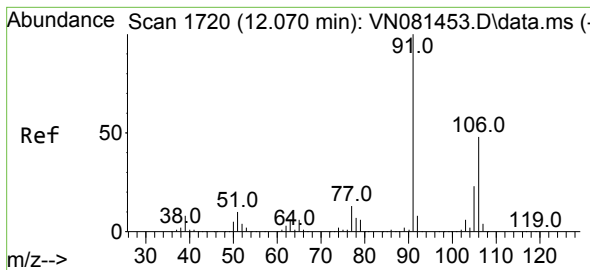
Tgt Ion:117 Resp: 724575
Ion Ratio Lower Upper
117 100
82 52.3 52.7 79.1#
119 32.2 25.3 37.9



#67
Ethyl Benzene
Concen: 1.179 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN081545.D
Acq: 22 Mar 2024 14:03

Tgt Ion: 91 Resp: 35092
Ion Ratio Lower Upper
91 100
106 33.3 23.8 35.6

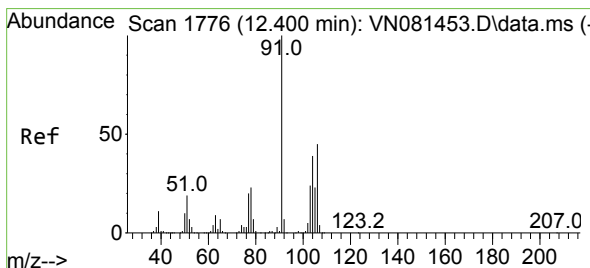
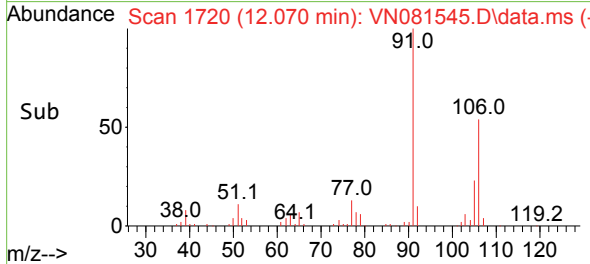
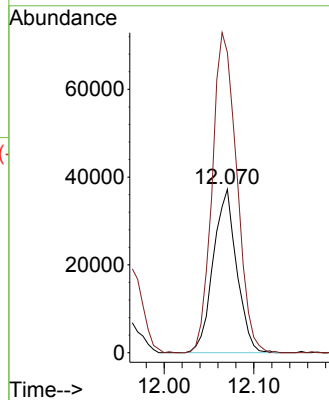
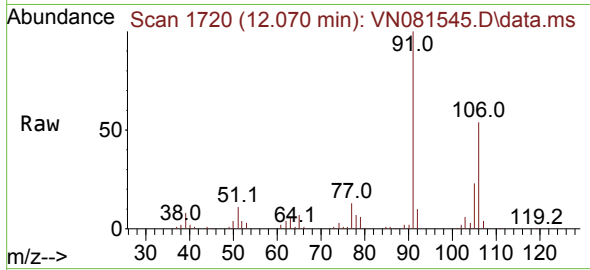




#68
m/p-Xylenes
Concen: 6.066 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN081545.D
Acq: 22 Mar 2024 14:03

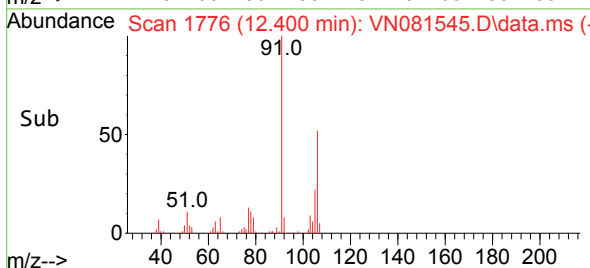
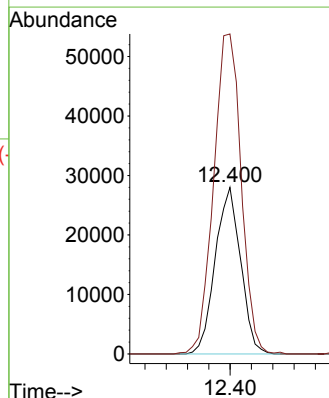
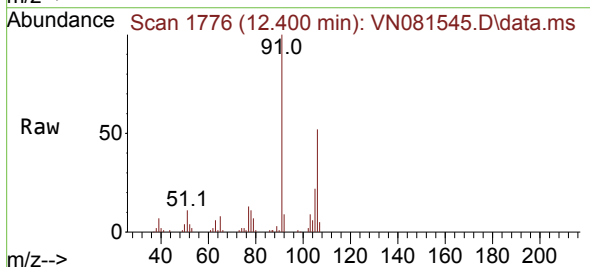
Instrument :
MSVOA_N
ClientSampleId :
S-12DL

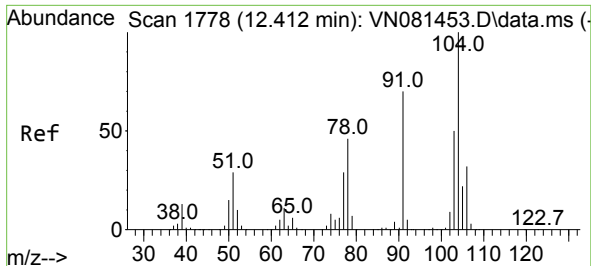
Tgt Ion:106 Resp: 67661
Ion Ratio Lower Upper
106 100
91 204.6 169.0 253.6



#69
o-Xylene
Concen: 4.232 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VN081545.D
Acq: 22 Mar 2024 14:03

Tgt Ion:106 Resp: 46348
Ion Ratio Lower Upper
106 100
91 208.3 112.1 336.3

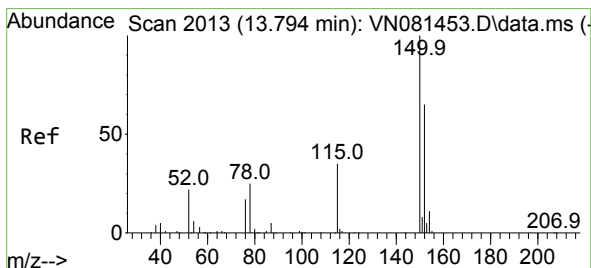
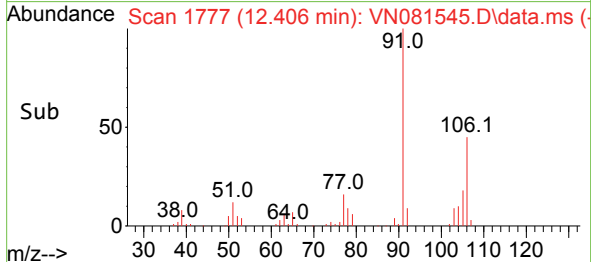
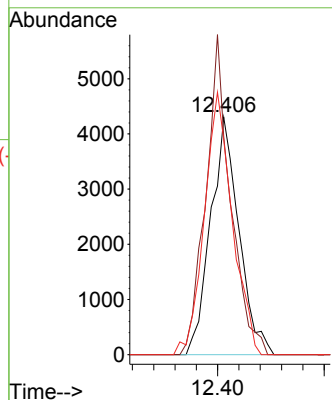
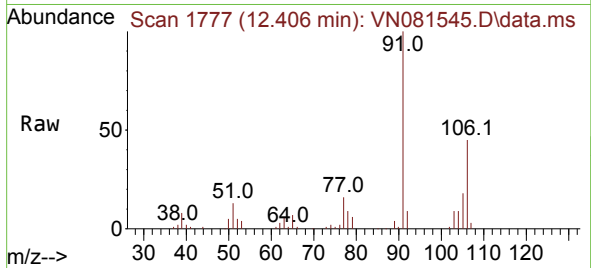




#70
Styrene
Concen: 0.449 ug/l
RT: 12.406 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN081545.D
Acq: 22 Mar 2024 14:03

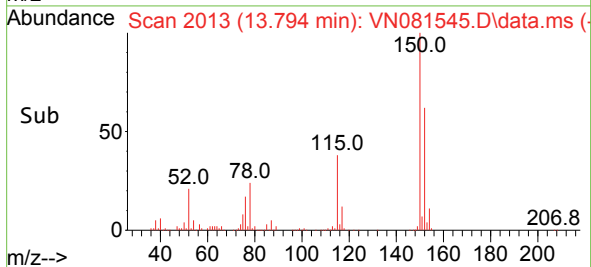
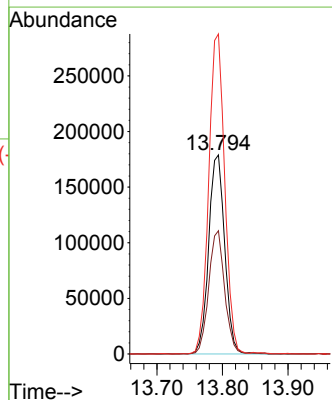
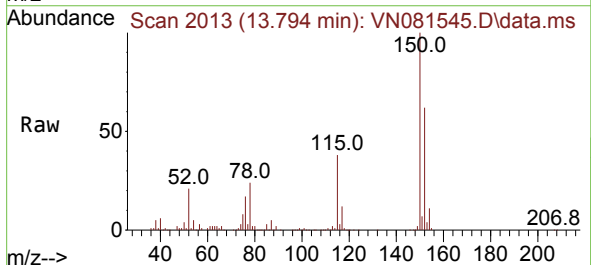
Instrument :
MSVOA_N
ClientSampleId :
S-12DL

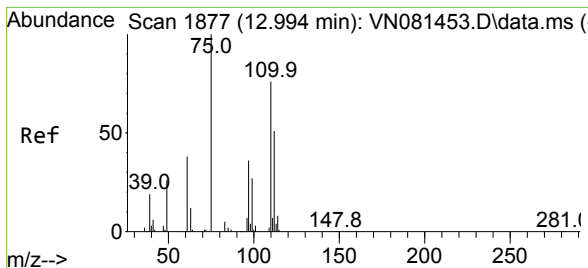
Tgt Ion:104 Resp: 7935
Ion Ratio Lower Upper
104 100
78 117.8 43.8 65.8#
103 109.2 44.2 66.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN081545.D
Acq: 22 Mar 2024 14:03

Tgt Ion:152 Resp: 304516
Ion Ratio Lower Upper
152 100
115 62.0 32.3 96.8
150 159.8 0.0 339.8





#76

1,2,3-Trichloropropane

Concen: 22.807 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN081545.D

Acq: 22 Mar 2024 14:03

Instrument :

MSVOA_N

ClientSampleId :

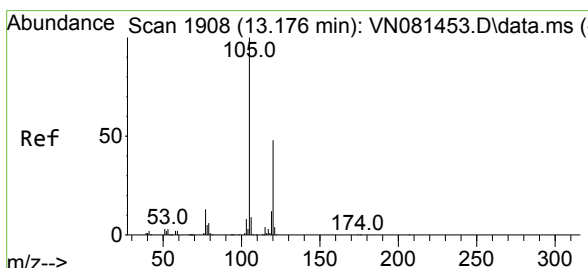
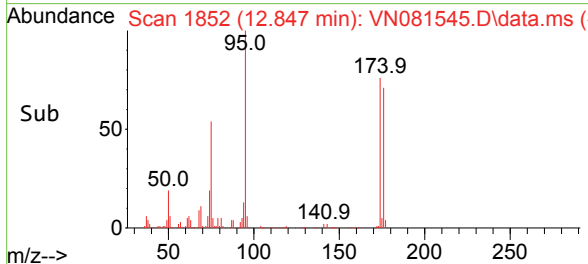
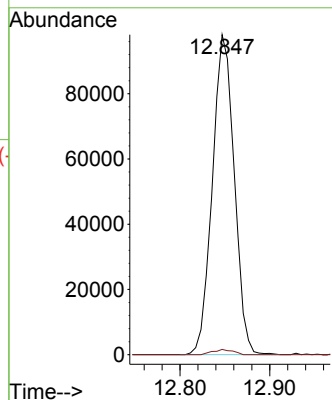
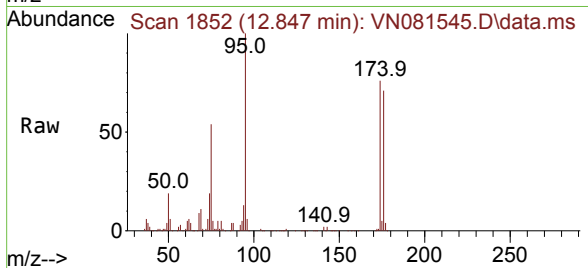
S-12DL

Tgt Ion: 75 Resp: 166128

Ion Ratio Lower Upper

75 100

77 1.5 91.0 272.8#



#80

1,3,5-Trimethylbenzene

Concen: 0.645 ug/l

RT: 13.176 min Scan# 1908

Delta R.T. 0.000 min

Lab File: VN081545.D

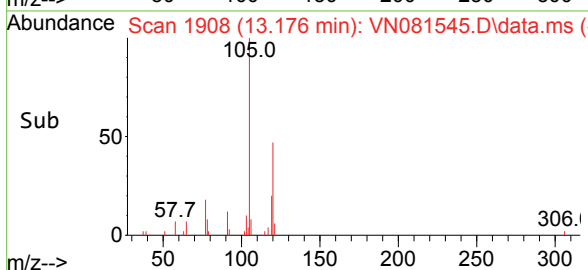
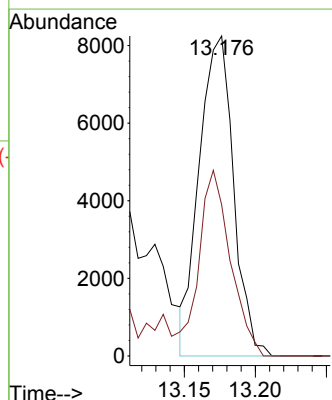
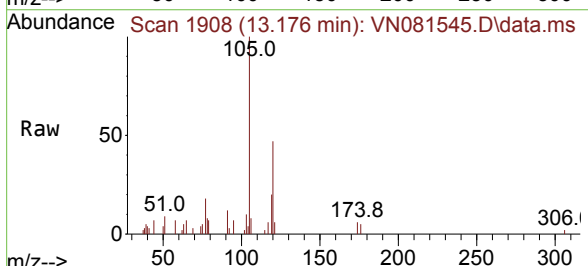
Acq: 22 Mar 2024 14:03

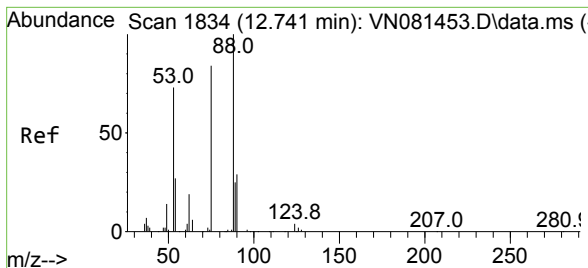
Tgt Ion:105 Resp: 13828

Ion Ratio Lower Upper

105 100

120 54.1 23.0 69.0

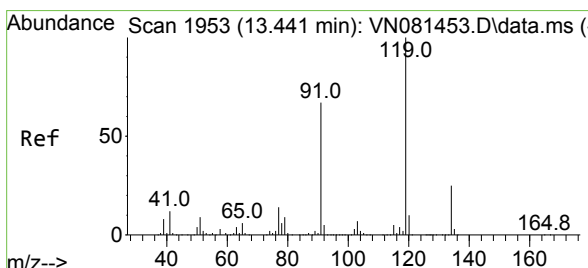
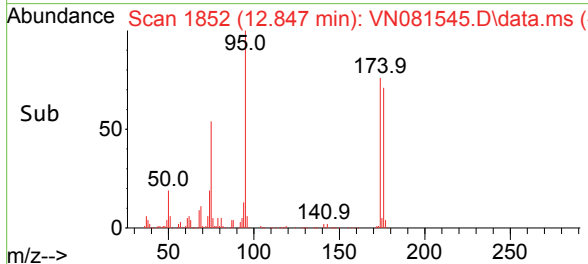
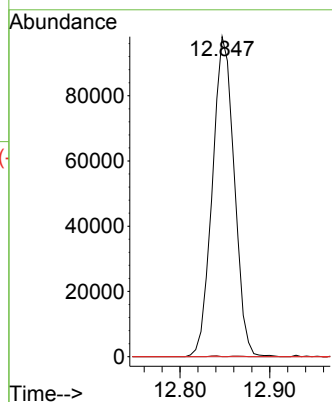
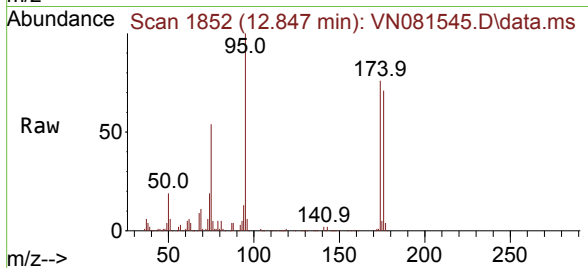




#81
trans-1,4-Dichloro-2-butene
Concen: 61.631 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.106 min
Lab File: VN081545.D
Acq: 22 Mar 2024 14:03

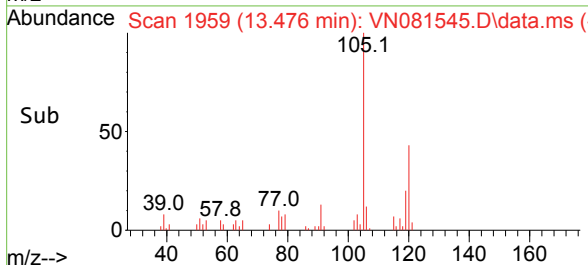
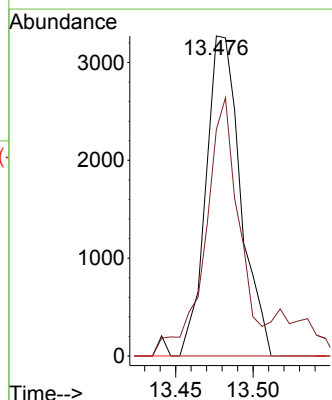
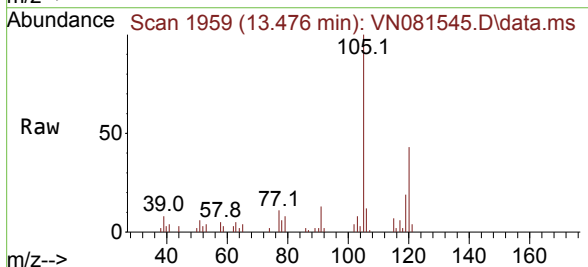
Instrument :
MSVOA_N
ClientSampleId :
S-12DL

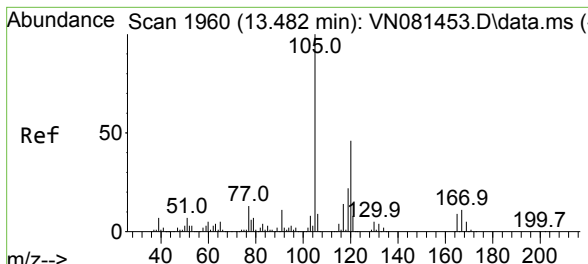
Tgt Ion: 75 Resp: 166128
Ion Ratio Lower Upper
75 100
53 0.1 71.4 107.2#
89 0.0 33.4 50.0#



#83
tert-Butylbenzene
Concen: 0.275 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. 0.035 min
Lab File: VN081545.D
Acq: 22 Mar 2024 14:03

Tgt Ion: 119 Resp: 5086
Ion Ratio Lower Upper
119 100
91 78.8 36.8 110.4
134 0.0 12.4 37.4#

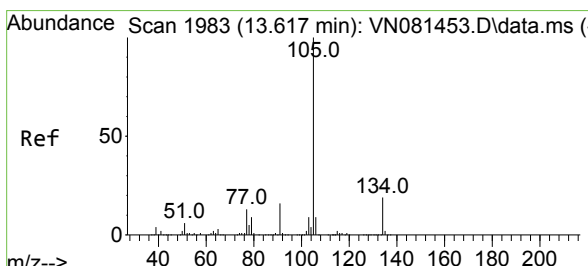
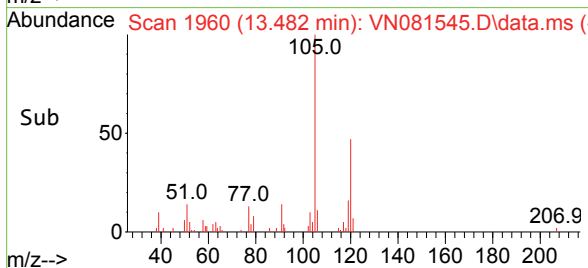
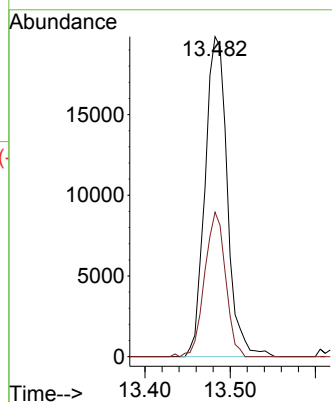
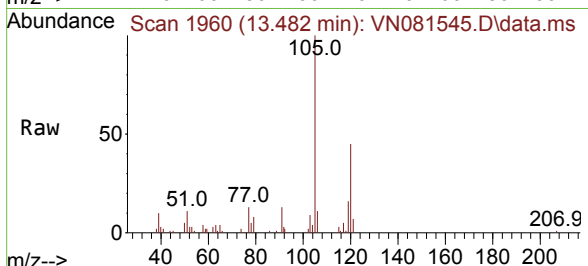




#84
 1,2,4-Trimethylbenzene
 Concen: 1.670 ug/l
 RT: 13.482 min Scan# 1960
 Delta R.T. 0.000 min
 Lab File: VN081545.D
 Acq: 22 Mar 2024 14:03

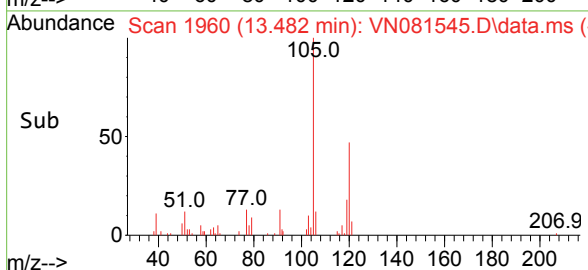
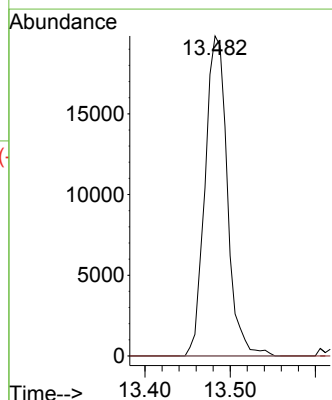
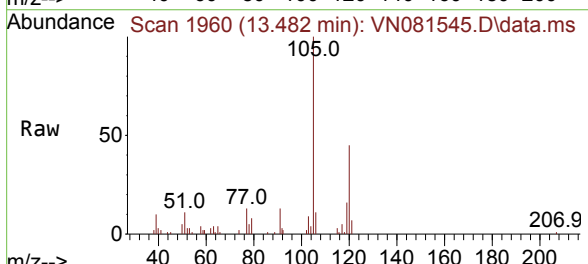
Instrument :
 MSVOA_N
 ClientSampleId :
 S-12DL

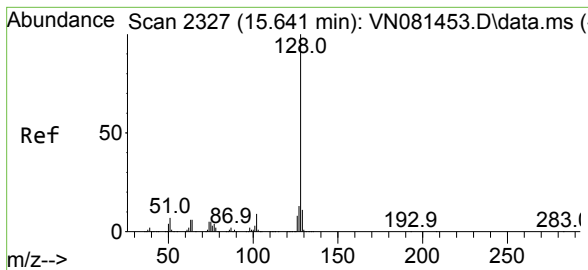
Tgt Ion:105 Resp: 35988
 Ion Ratio Lower Upper
 105 100
 120 42.3 20.9 62.7



#85
 sec-Butylbenzene
 Concen: 1.362 ug/l
 RT: 13.482 min Scan# 1960
 Delta R.T. -0.135 min
 Lab File: VN081545.D
 Acq: 22 Mar 2024 14:03

Tgt Ion:105 Resp: 35988
 Ion Ratio Lower Upper
 105 100
 134 0.0 8.6 25.8#





#95
Naphthalene
Concen: 28.080 ug/l
RT: 15.641 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN081545.D
Acq: 22 Mar 2024 14:03

Instrument :
MSVOA_N
ClientSampleId :
S-12DL

Tgt Ion:128 Resp: 596558
Ion Ratio Lower Upper
128 100
127 12.8 10.0 15.0
129 10.8 8.7 13.1

