

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022224\
 Data File : VN081135.D
 Acq On : 22 Feb 2024 15:11
 Operator : JC\MD
 Sample : P1546-09
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 23 04:26:11 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021624W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 16 23:45:20 2024
 Response via : Initial Calibration

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

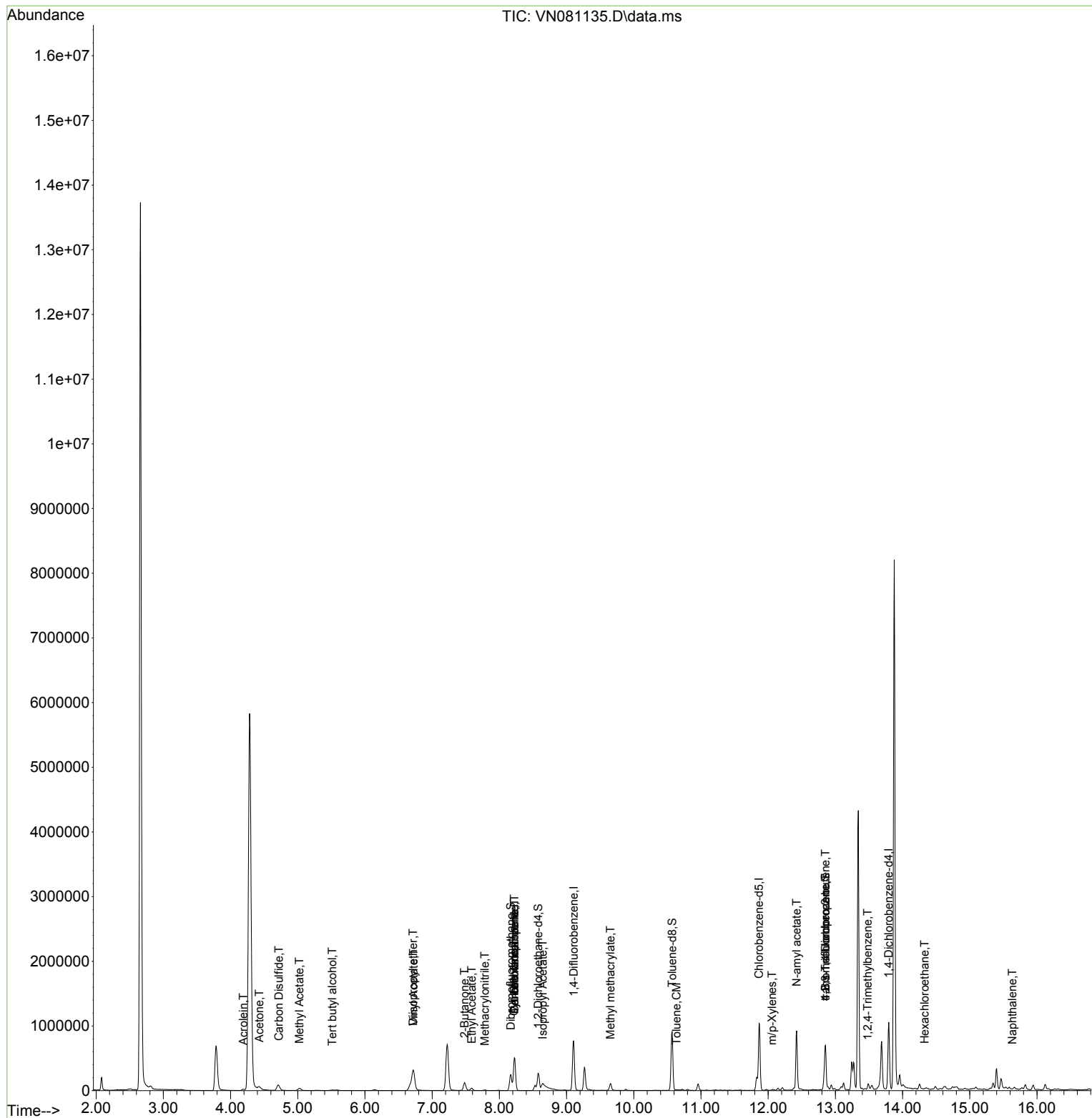
Internal Standards						
1) Pentafluorobenzene	8.224	168	362824	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	679848	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	604859	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	268913	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	213063	47.909	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	95.820%		
35) Dibromofluoromethane	8.171	113	178834	46.519	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	93.040%		
50) Toluene-d8	10.570	98	600165	43.955	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	87.920%		
62) 4-Bromofluorobenzene	12.853	95	232705	45.357	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	90.720%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	1521	Below Cal	#	80
6) Chloroethane	3.118	64	547	Below Cal	#	42
11) Tert butyl alcohol	5.512	59	16669	20.381	ug/l #	92
13) Acrolein	4.189	56	27437	62.591	ug/l	98
16) Acetone	4.430	43	73302	41.890	ug/l #	43
17) Carbon Disulfide	4.718	76	6838	0.597	ug/l	97
18) Methyl Acetate	5.024	43	67113	15.722	ug/l #	89
20) Methylene Chloride	5.288	84	779	Below Cal	#	52
22) Diisopropyl ether	6.718	45	28150	2.038	ug/l #	1
23) Vinyl Acetate	6.724	43	55950	4.993	ug/l #	75
25) 2-Butanone	7.482	43	188402	66.644	ug/l	97
31) Cyclohexane	8.218	56	9613	1.252	ug/l #	18
36) 1,1-Dichloropropene	8.224	75	30878	4.688	ug/l #	51
37) Ethyl Acetate	7.588	43	24599	4.138	ug/l #	13
38) Carbon Tetrachloride	8.224	117	40435	6.068	ug/l #	19
41) Methacrylonitrile	7.782	41	2050	0.606	ug/l #	37
43) Isopropyl Acetate	8.647	43	217535	20.925	ug/l #	57
48) Methyl methacrylate	9.653	41	26870	5.555	ug/l #	48
49) 1,4-Dioxane	9.694	88	2151	Below Cal	#	34
52) Toluene	10.635	92	3755	0.311	ug/l	99
68) m/p-Xylenes	12.059	106	3936	0.438	ug/l	87
74) N-amyl acetate	12.423	43	170147	17.111	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	129739	21.234	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	129739	54.655	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.482	105	8789	0.462	ug/l	90
90) Hexachloroethane	14.329	117	639	0.203	ug/l #	21
95) Naphthalene	15.635	128	5425	0.278	ug/l #	84

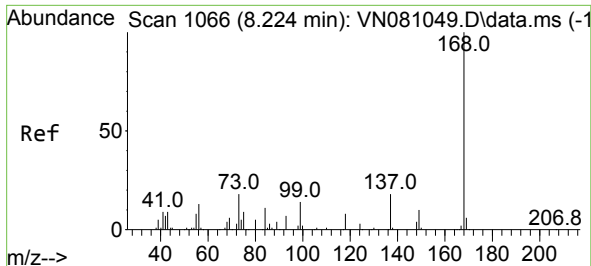
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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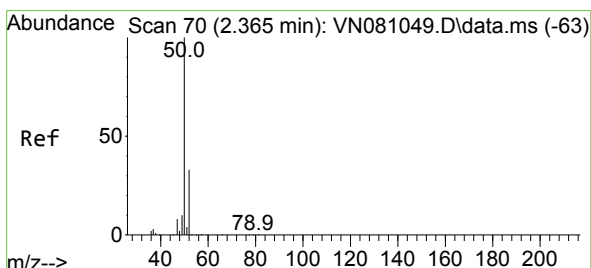
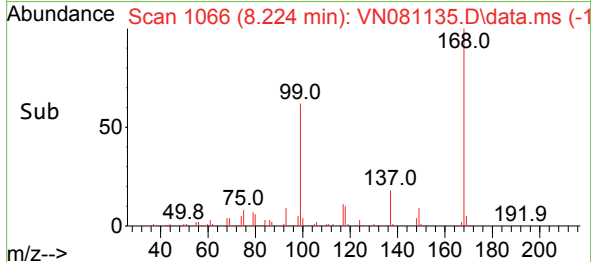
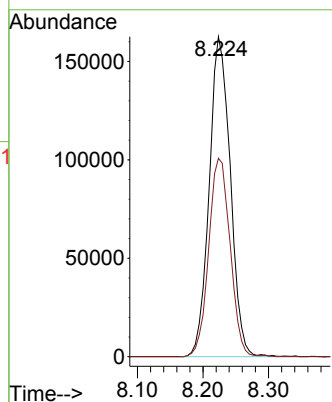
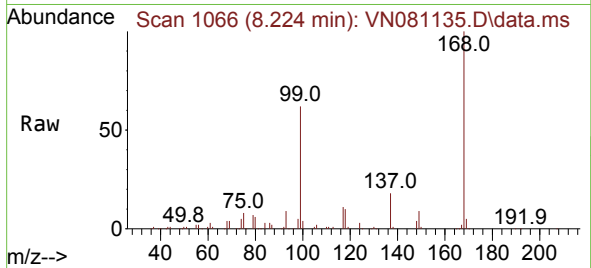




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN081135.D
Acq: 22 Feb 2024 15:11

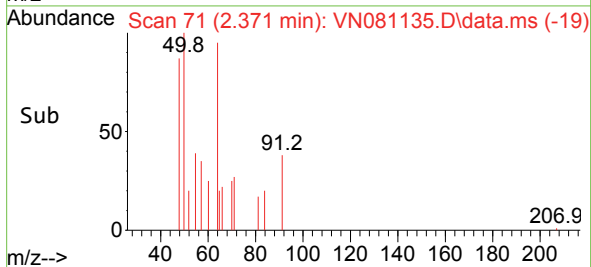
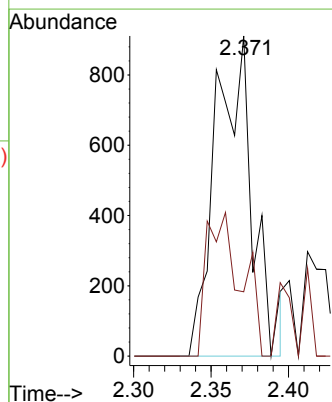
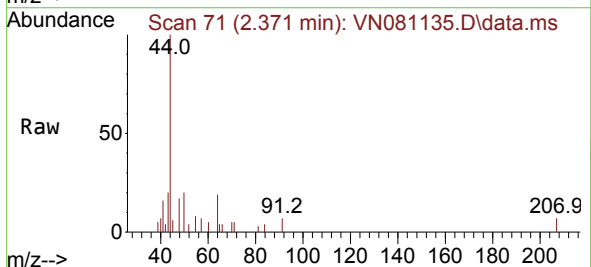
Instrument :
MSVOA_N
ClientSampleId :

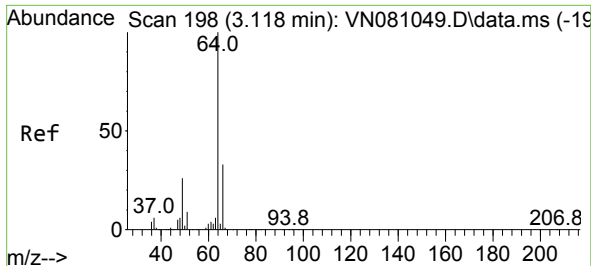
Tgt Ion:168 Resp: 362824
Ion Ratio Lower Upper
168 100
99 62.0 59.9 89.9



#3
Chloromethane
Concen: Below Cal
RT: 2.371 min Scan# 71
Delta R.T. 0.006 min
Lab File: VN081135.D
Acq: 22 Feb 2024 15:11

Tgt Ion: 50 Resp: 1521
Ion Ratio Lower Upper
50 100
52 20.1 25.0 37.4#

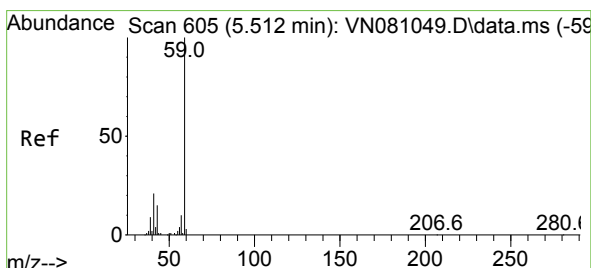
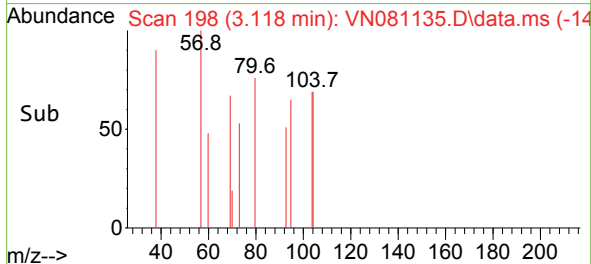
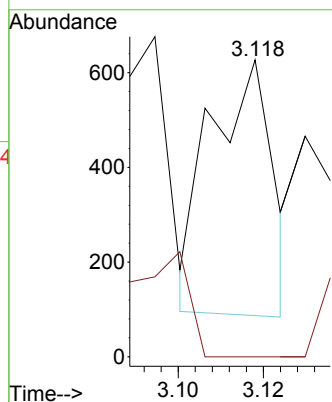
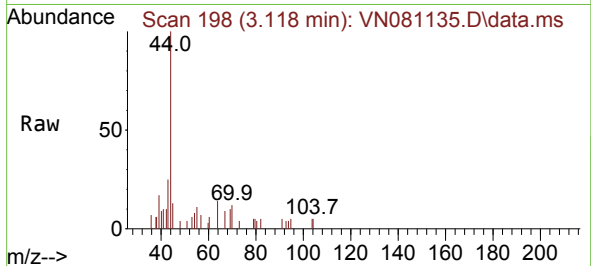




#6
Chloroethane
Concen: Below Cal
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN081135.D
Acq: 22 Feb 2024 15:11

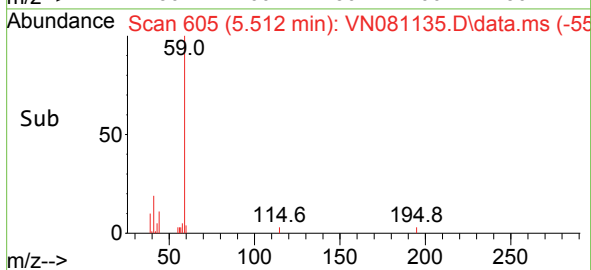
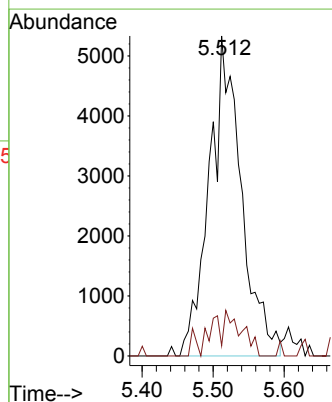
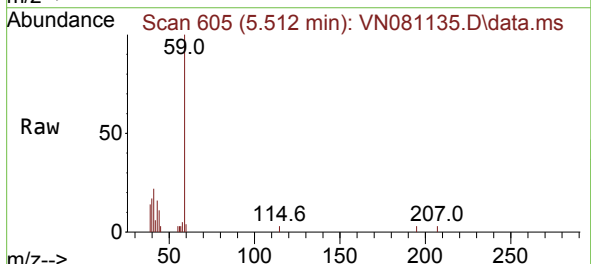
Instrument :
MSVOA_N
ClientSampleId :

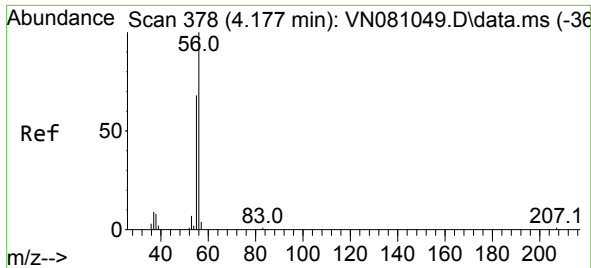
Tgt Ion: 64 Resp: 547
Ion Ratio Lower Upper
64 100
66 0.0 26.4 39.6#



#11
Tert butyl alcohol
Concen: 20.381 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.000 min
Lab File: VN081135.D
Acq: 22 Feb 2024 15:11

Tgt Ion: 59 Resp: 16669
Ion Ratio Lower Upper
59 100
57 7.7 8.6 12.8#

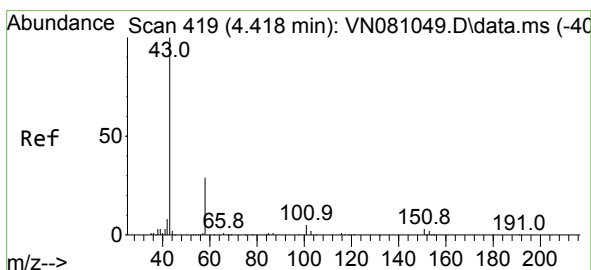
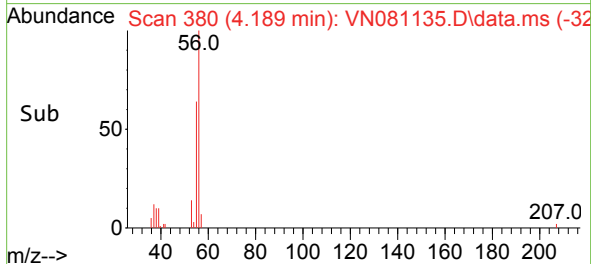
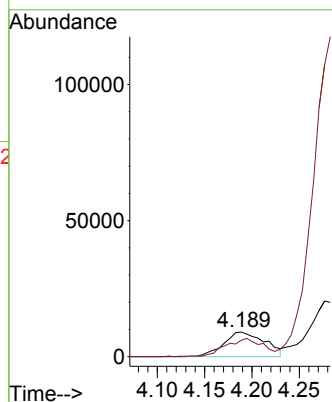
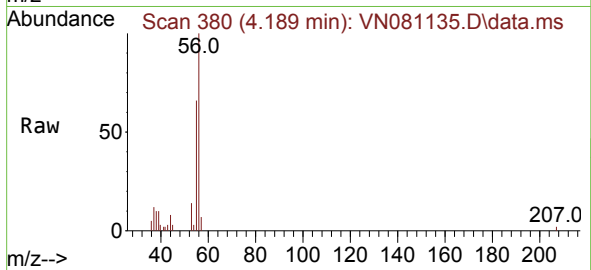




#13
Acrolein
Concen: 62.591 ug/l
RT: 4.189 min Scan# 378
Delta R.T. 0.012 min
Lab File: VN081135.D
Acq: 22 Feb 2024 15:11

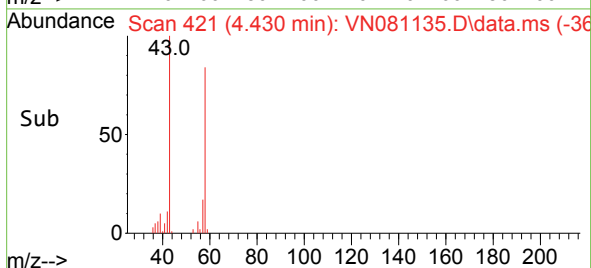
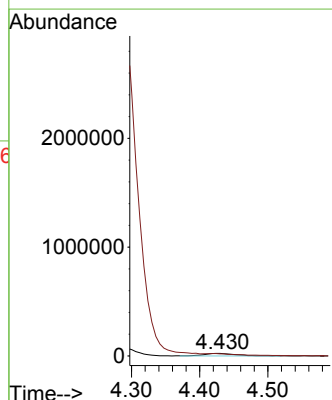
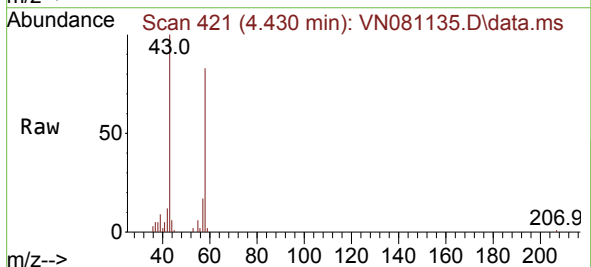
Instrument :
MSVOA_N
ClientSampleId :

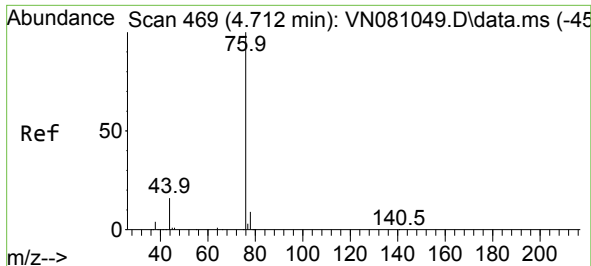
Tgt Ion: 56 Resp: 27437
Ion Ratio Lower Upper
56 100
55 67.3 55.3 82.9



#16
Acetone
Concen: 41.890 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.012 min
Lab File: VN081135.D
Acq: 22 Feb 2024 15:11

Tgt Ion: 43 Resp: 73302
Ion Ratio Lower Upper
43 100
58 62.5 24.8 37.2#

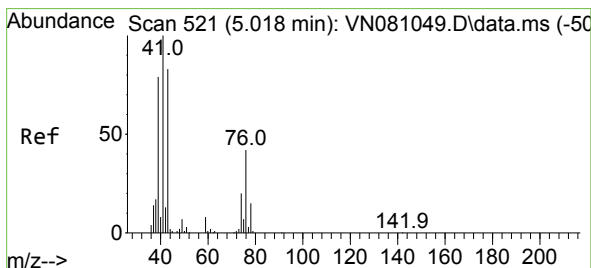
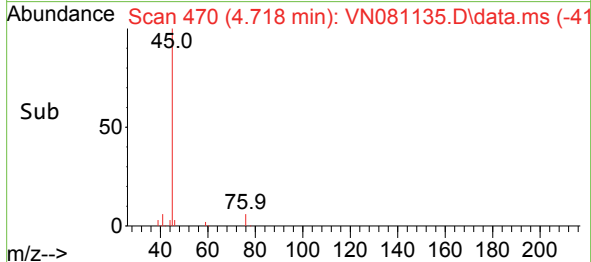
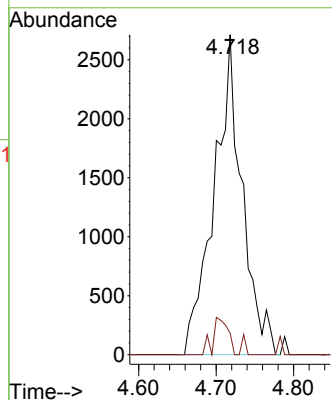
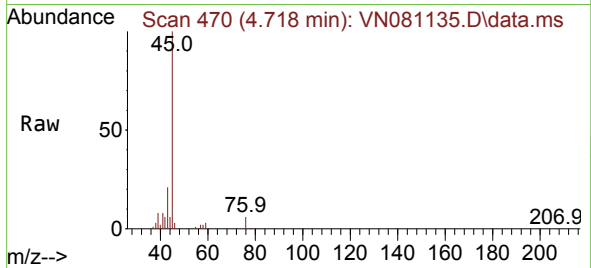




#17
Carbon Disulfide
Concen: 0.597 ug/l
RT: 4.718 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN081135.D
Acq: 22 Feb 2024 15:11

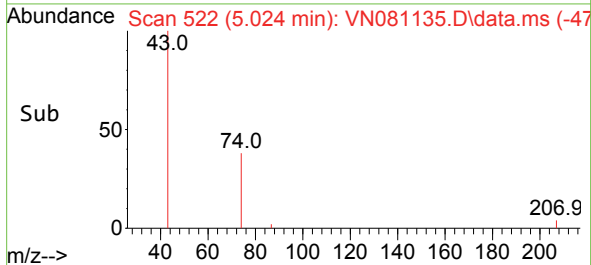
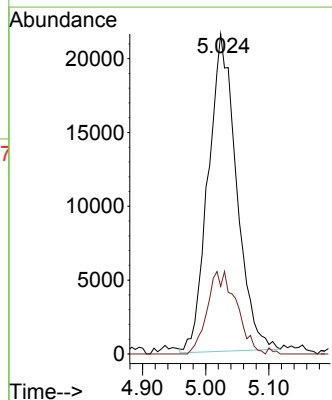
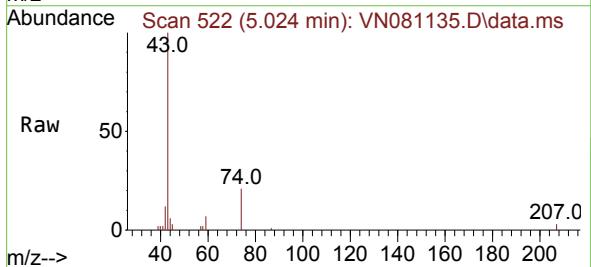
Instrument :
MSVOA_N
ClientSampleId :

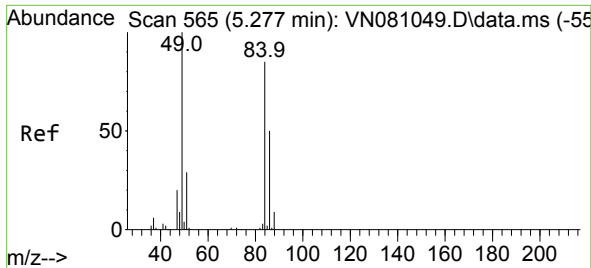
Tgt Ion: 76 Resp: 6838
Ion Ratio Lower Upper
76 100
78 6.8 6.3 9.5



#18
Methyl Acetate
Concen: 15.722 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN081135.D
Acq: 22 Feb 2024 15:11

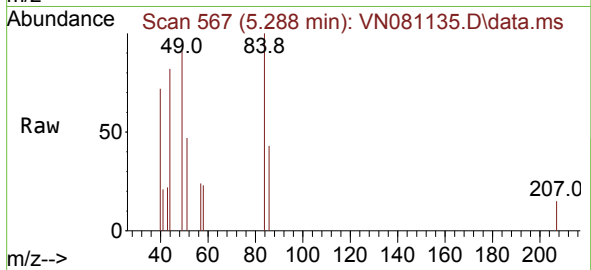
Tgt Ion: 43 Resp: 67113
Ion Ratio Lower Upper
43 100
74 26.9 17.3 25.9#



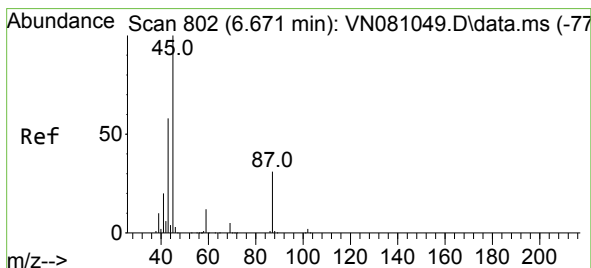
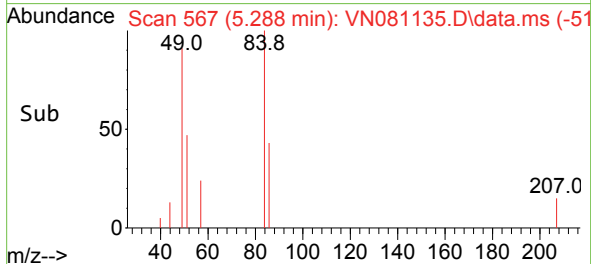
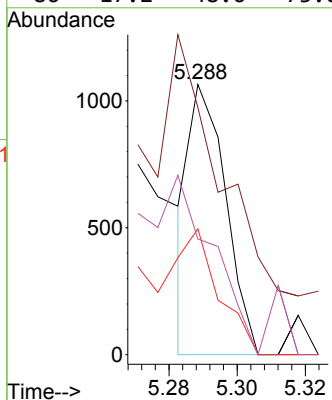


#20
Methylene Chloride
Concen: Below Cal
RT: 5.288 min Scan# 50
Delta R.T. 0.011 min
Lab File: VN081135.D
Acq: 22 Feb 2024 15:11

Instrument :
MSVOA_N
ClientSampleId :

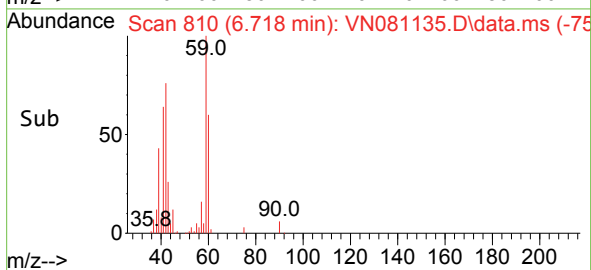
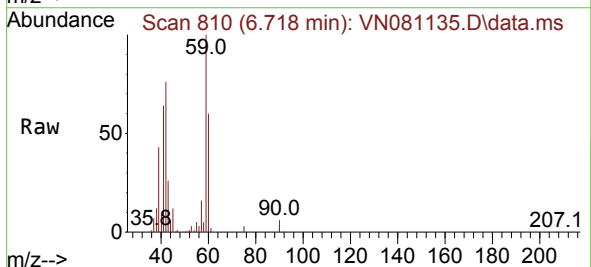
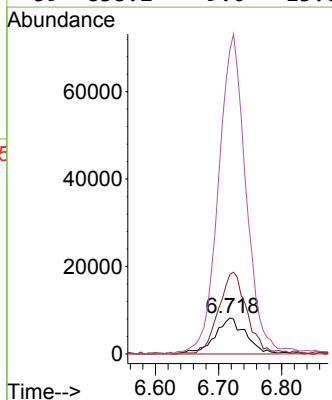


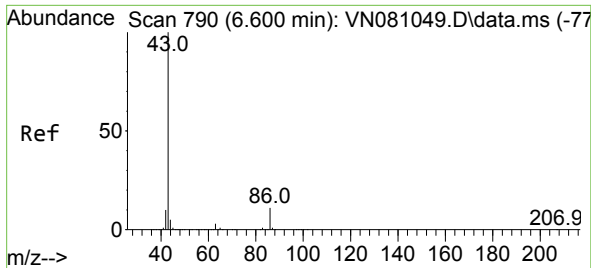
Tgt Ion: 84 Resp: 779
Ion Ratio Lower Upper
84 100
49 67.7 108.1 162.1#
51 46.6 32.9 49.3
86 17.2 48.6 73.0#



#22
Diisopropyl ether
Concen: 2.038 ug/l
RT: 6.718 min Scan# 810
Delta R.T. 0.047 min
Lab File: VN081135.D
Acq: 22 Feb 2024 15:11

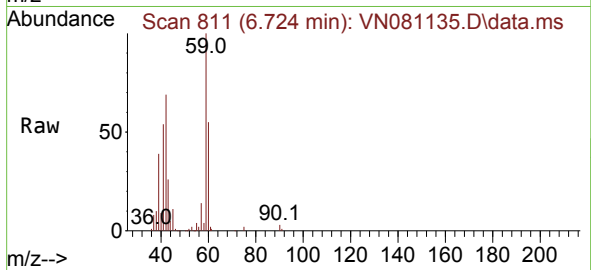
Tgt Ion: 45 Resp: 28150
Ion Ratio Lower Upper
45 100
43 218.4 41.8 62.8#
87 0.0 18.1 27.1#
59 838.2 9.0 13.6#



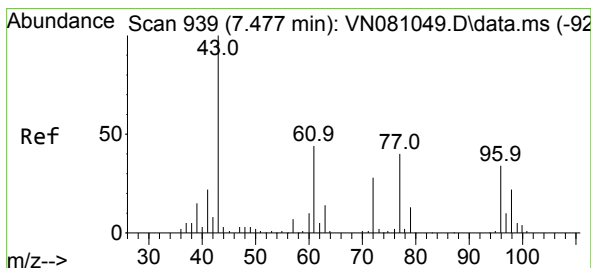
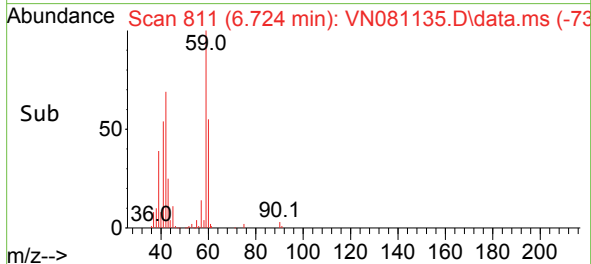
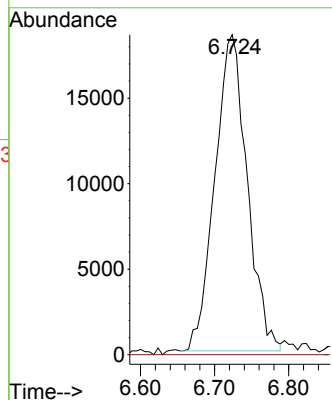


#23
 Vinyl Acetate
 Concen: 4.993 ug/l
 RT: 6.724 min Scan# 81
 Delta R.T. 0.123 min
 Lab File: VN081135.D
 Acq: 22 Feb 2024 15:11

Instrument :
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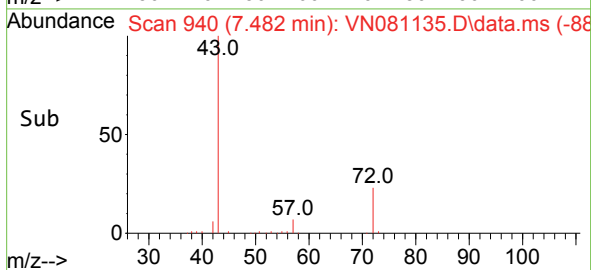
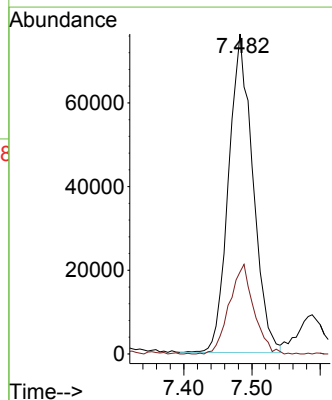
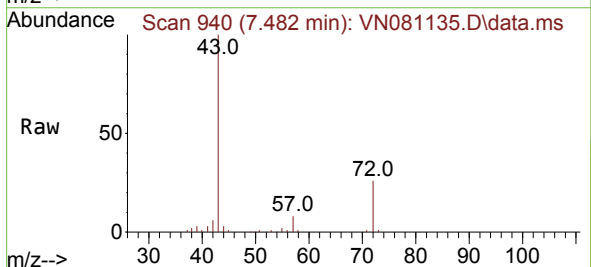


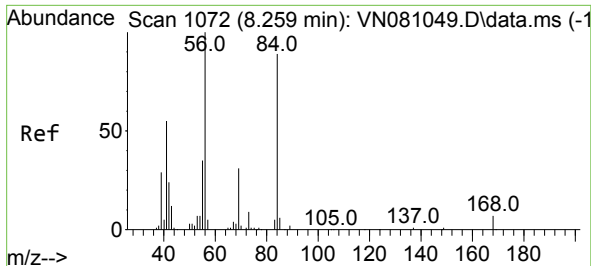
Tgt Ion: 43 Resp: 55950
 Ion Ratio Lower Upper
 43 100
 86 0.0 7.1 10.7#



#25
 2-Butanone
 Concen: 66.644 ug/l
 RT: 7.482 min Scan# 940
 Delta R.T. 0.006 min
 Lab File: VN081135.D
 Acq: 22 Feb 2024 15:11

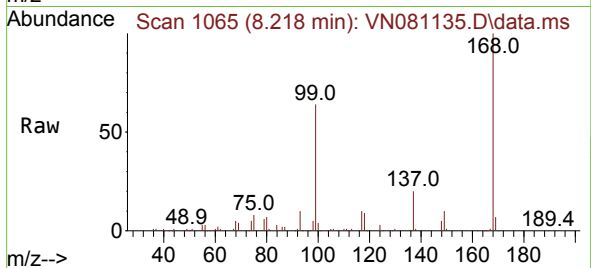
Tgt Ion: 43 Resp: 188402
 Ion Ratio Lower Upper
 43 100
 72 25.8 19.5 29.3



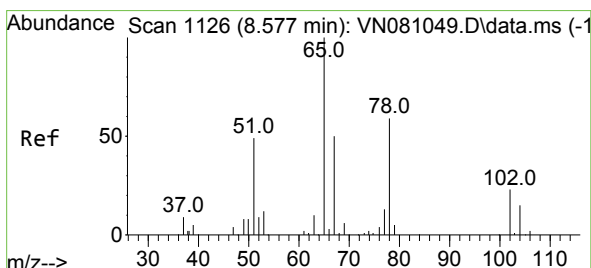
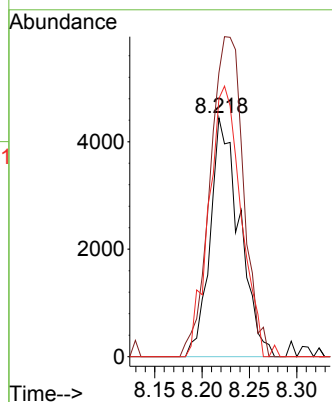
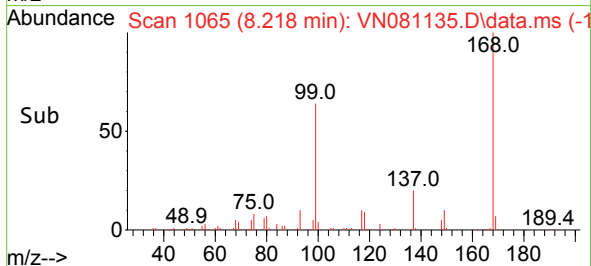


#31
Cyclohexane
Concen: 1.252 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.041 min
Lab File: VN081135.D
Acq: 22 Feb 2024 15:11

Instrument :
MSVOA_N
ClientSampleId :

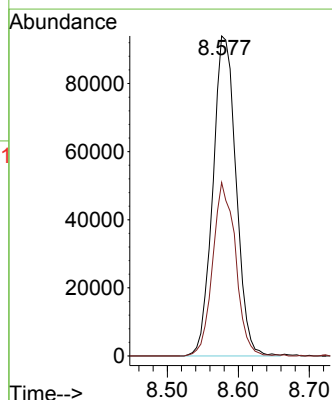
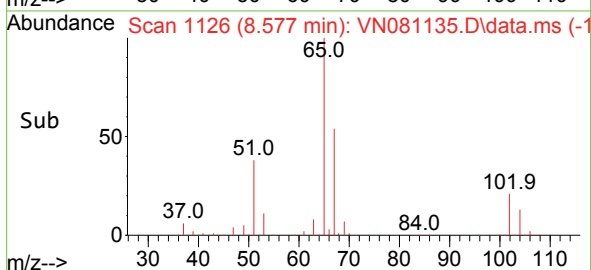
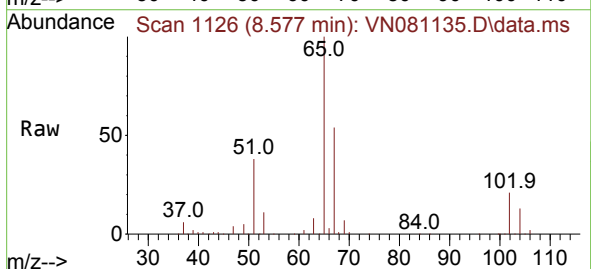


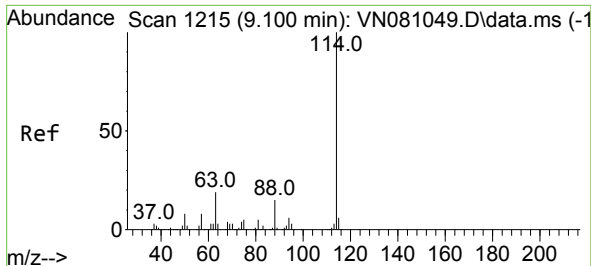
Tgt Ion: 56 Resp: 9613
Ion Ratio Lower Upper
56 100
69 118.9 20.1 30.1#
84 108.0 56.9 85.3#



#33
1,2-Dichloroethane-d4
Concen: 47.909 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN081135.D
Acq: 22 Feb 2024 15:11

Tgt Ion: 65 Resp: 213063
Ion Ratio Lower Upper
65 100
67 53.3 0.0 102.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN081135.D

Acq: 22 Feb 2024 15:11

Instrument :

MSVOA_N

ClientSampleId :

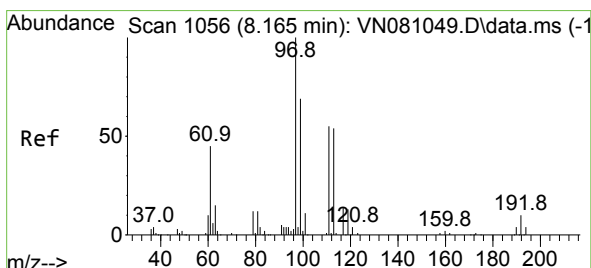
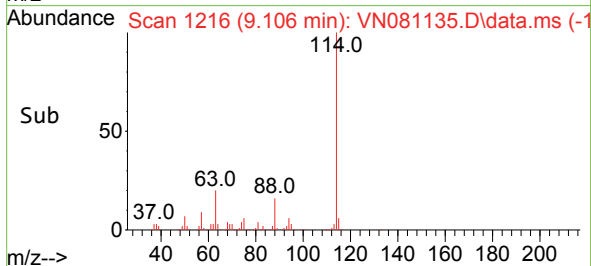
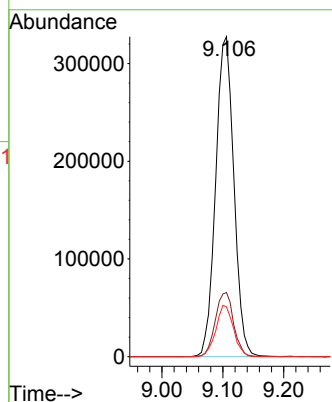
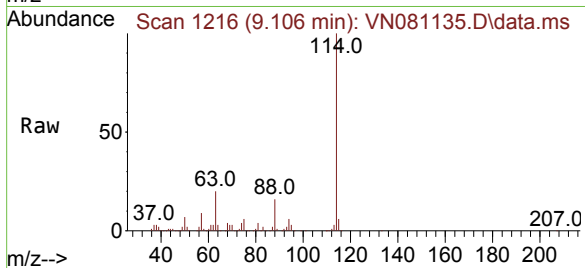
Tgt Ion:114 Resp: 679848

Ion Ratio Lower Upper

114 100

63 20.1 0.0 48.0

88 15.6 0.0 34.8



#35

Dibromofluoromethane

Concen: 46.519 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN081135.D

Acq: 22 Feb 2024 15:11

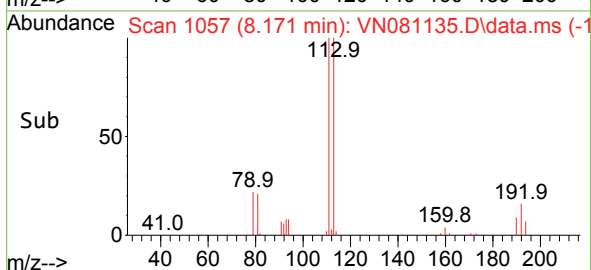
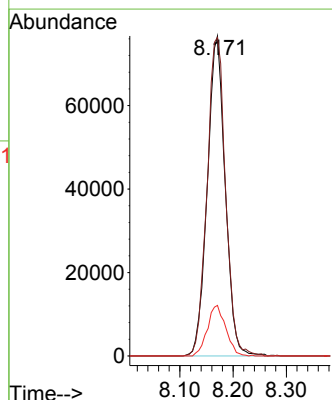
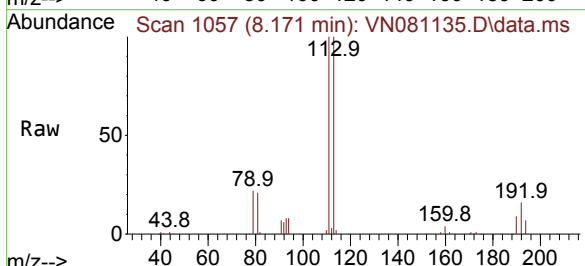
Tgt Ion:113 Resp: 178834

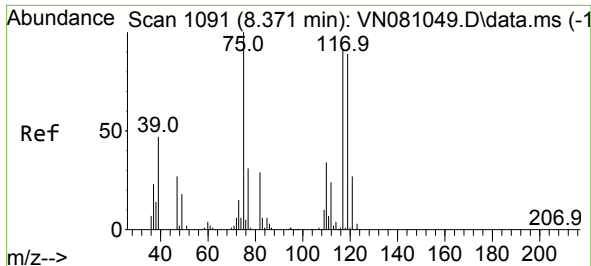
Ion Ratio Lower Upper

113 100

111 103.2 82.2 123.4

192 16.3 12.5 18.7





#36

1,1-Dichloropropene

Concen: 4.688 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.147 min

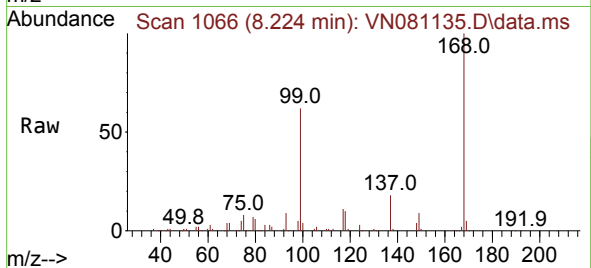
Lab File: VN081135.D

Acq: 22 Feb 2024 15:11

Instrument :

MSVOA_N

ClientSampleId :



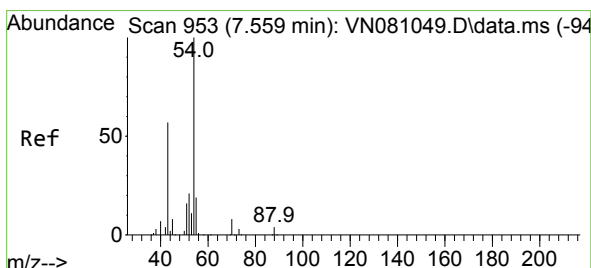
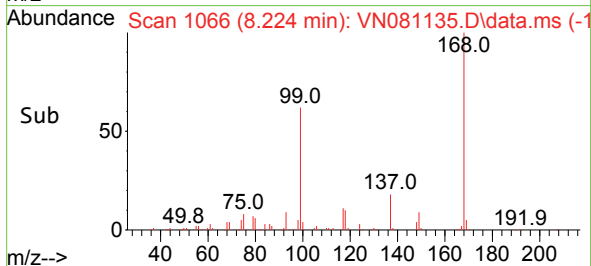
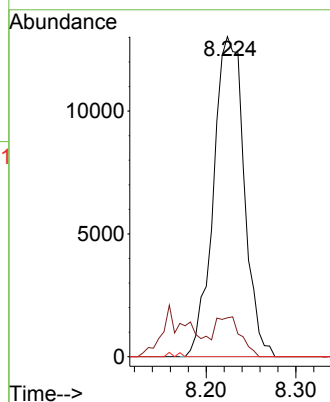
Tgt Ion: 75 Resp: 30878

Ion Ratio Lower Upper

75 100

110 9.9 16.0 48.0#

77 0.0 25.8 38.6#



#37

Ethyl Acetate

Concen: 4.138 ug/l

RT: 7.588 min Scan# 958

Delta R.T. 0.029 min

Lab File: VN081135.D

Acq: 22 Feb 2024 15:11

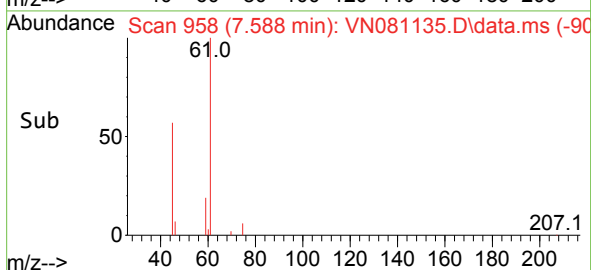
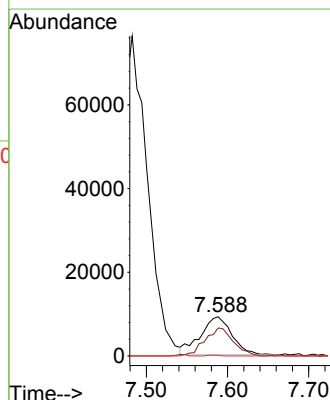
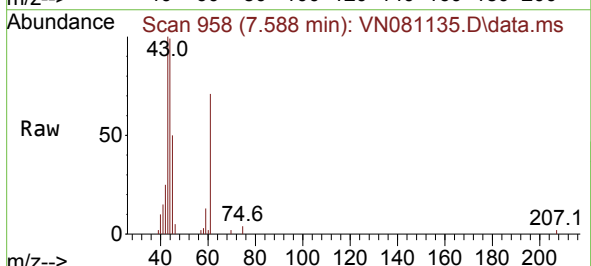
Tgt Ion: 43 Resp: 24599

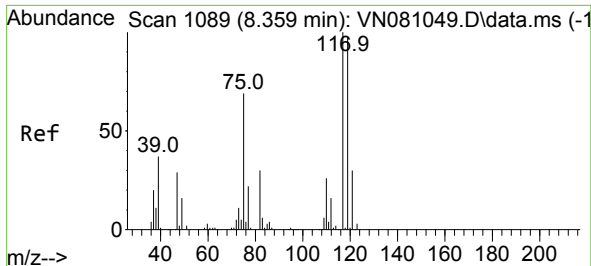
Ion Ratio Lower Upper

43 100

61 66.5 10.6 15.8#

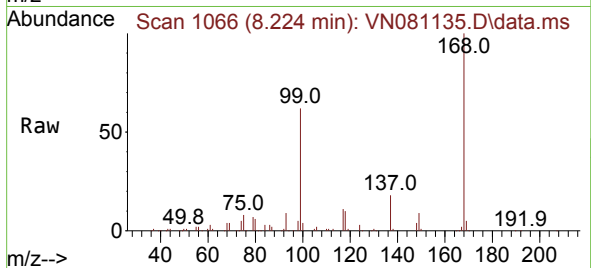
70 0.7 8.0 12.0#



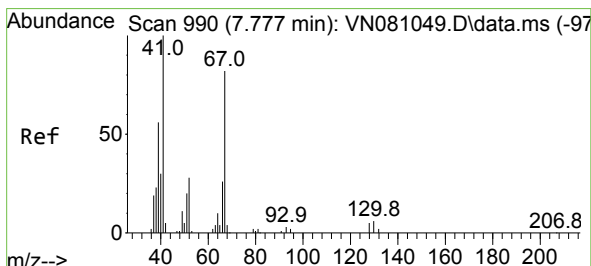
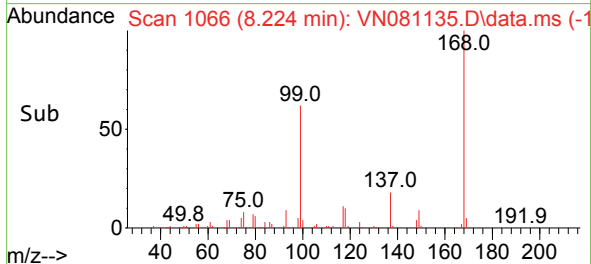
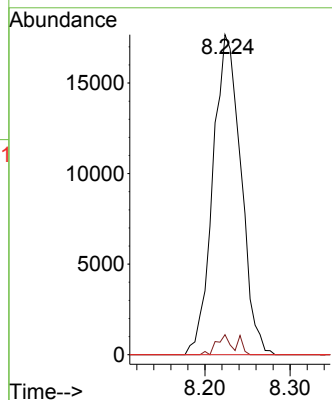


#38
Carbon Tetrachloride
Concen: 6.068 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN081135.D
Acq: 22 Feb 2024 15:11

Instrument :
MSVOA_N
ClientSampleId :

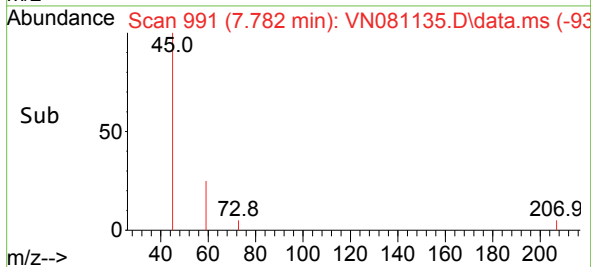
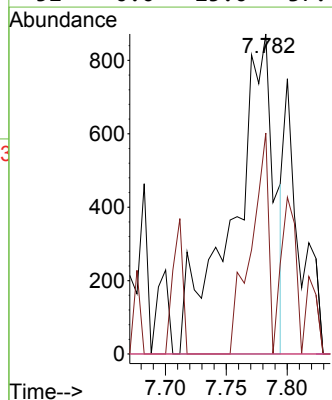
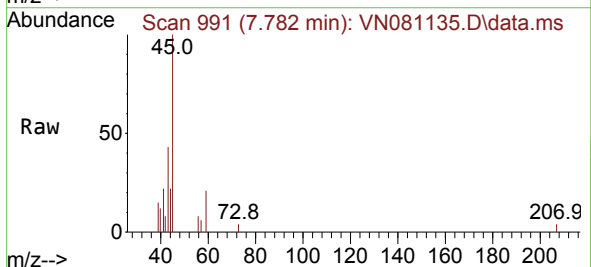


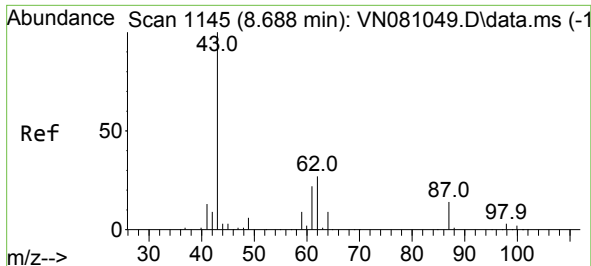
Tgt Ion:117 Resp: 40435
Ion Ratio Lower Upper
117 100
119 6.3 73.4 110.2#
121 0.0 24.4 36.6#



#41
Methacrylonitrile
Concen: 0.606 ug/l
RT: 7.782 min Scan# 991
Delta R.T. 0.006 min
Lab File: VN081135.D
Acq: 22 Feb 2024 15:11

Tgt Ion: 41 Resp: 2050
Ion Ratio Lower Upper
41 100
39 29.9 48.4 72.6#
67 0.0 56.8 85.2#
52 0.0 25.0 37.4#

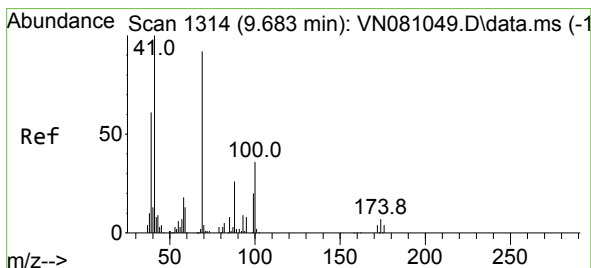
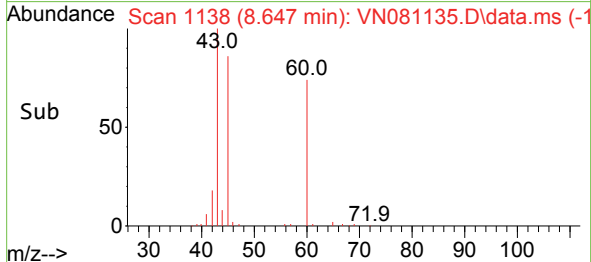
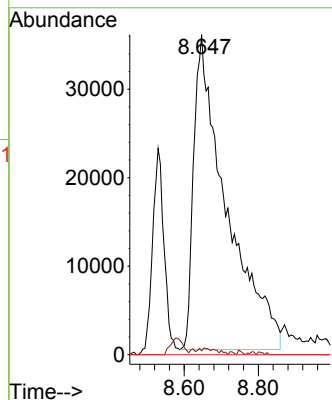
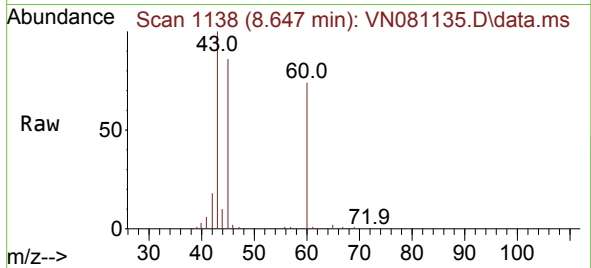




#43
Isopropyl Acetate
Concen: 20.925 ug/l
RT: 8.647 min Scan# 1145
Delta R.T. -0.041 min
Lab File: VN081135.D
Acq: 22 Feb 2024 15:11

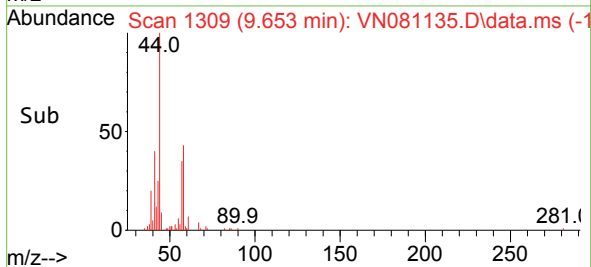
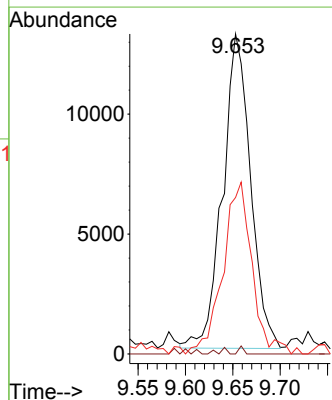
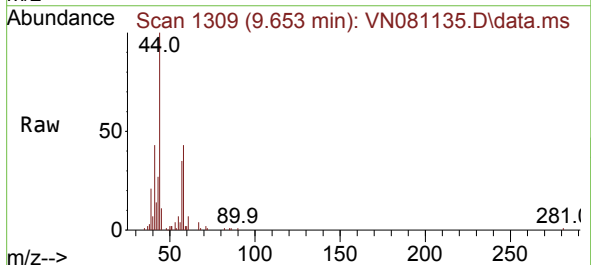
Instrument :
MSVOA_N
ClientSampleId :

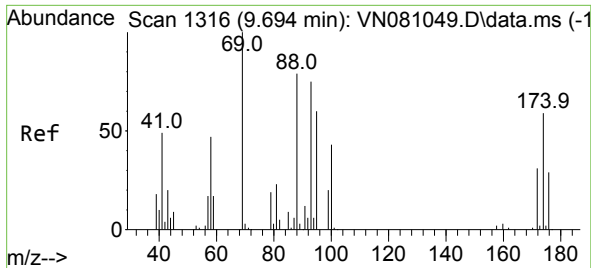
Tgt Ion: 43 Resp: 217535
Ion Ratio Lower Upper
43 100
61 0.2 19.9 29.9#
87 0.0 9.0 13.6#



#48
Methyl methacrylate
Concen: 5.555 ug/l
RT: 9.653 min Scan# 1309
Delta R.T. -0.030 min
Lab File: VN081135.D
Acq: 22 Feb 2024 15:11

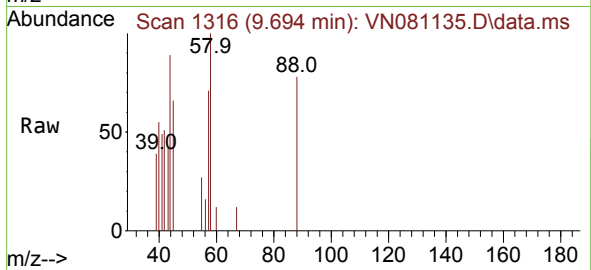
Tgt Ion: 41 Resp: 26870
Ion Ratio Lower Upper
41 100
69 0.4 62.2 93.2#
39 57.2 47.6 71.4



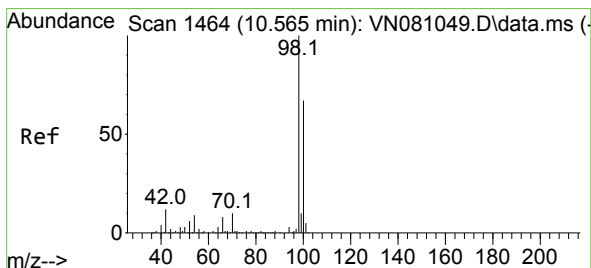
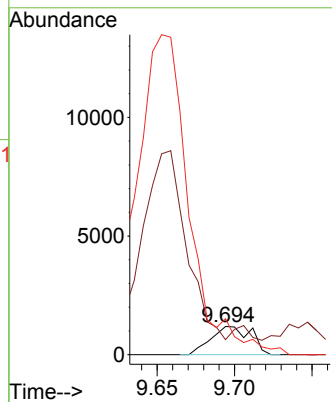
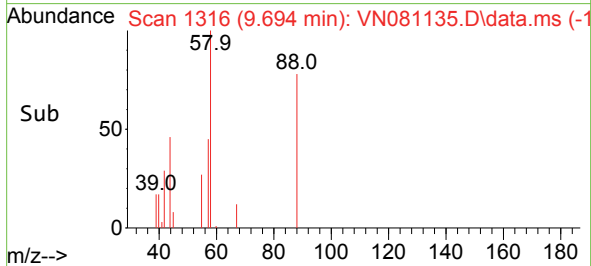


#49
1,4-Dioxane
Concen: Below Cal
RT: 9.694 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN081135.D
Acq: 22 Feb 2024 15:11

Instrument :
MSVOA_N
ClientSampleId :

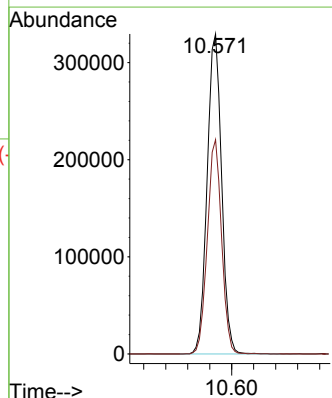
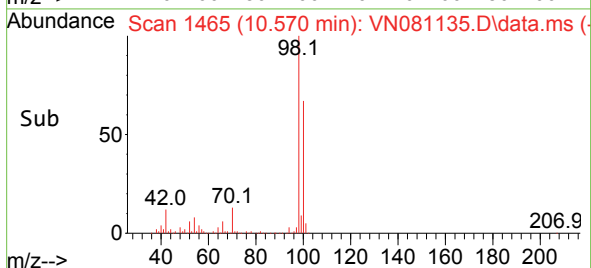
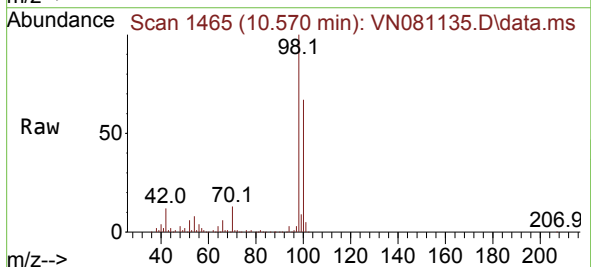


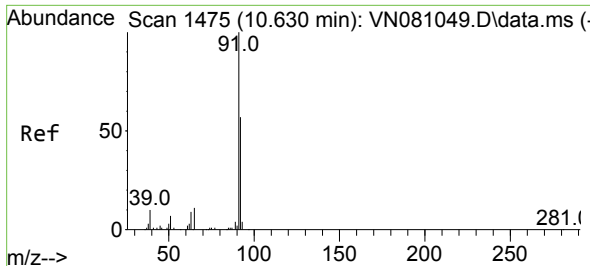
Tgt Ion: 88 Resp: 2151
Ion Ratio Lower Upper
88 100
43 28.8 30.1 45.1#
58 0.0 63.9 95.9#



#50
Toluene-d8
Concen: 43.955 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VN081135.D
Acq: 22 Feb 2024 15:11

Tgt Ion: 98 Resp: 600165
Ion Ratio Lower Upper
98 100
100 65.9 51.4 77.0

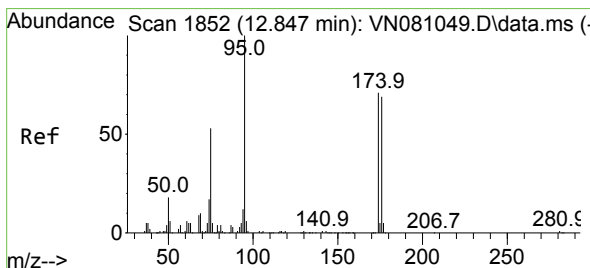
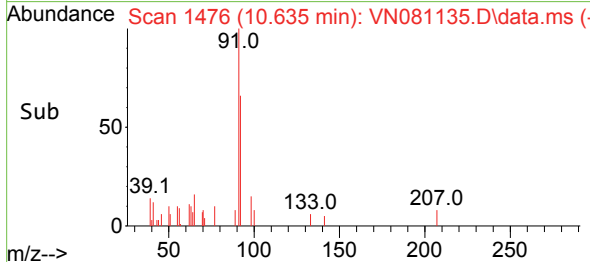
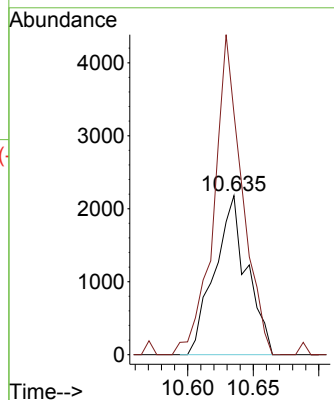
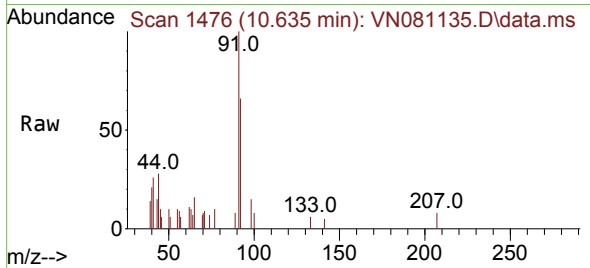




#52
Toluene
Concen: 0.311 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.006 min
Lab File: VN081135.D
Acq: 22 Feb 2024 15:11

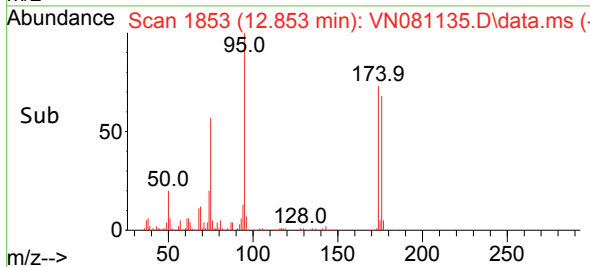
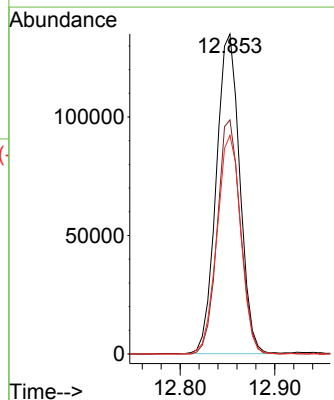
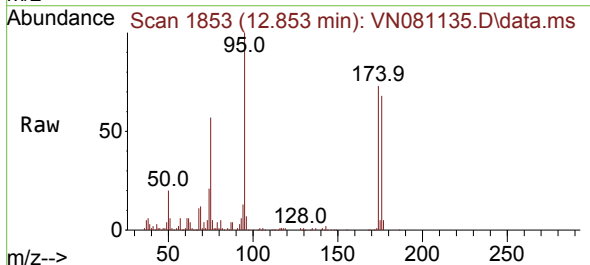
Instrument :
MSVOA_N
ClientSampleId :

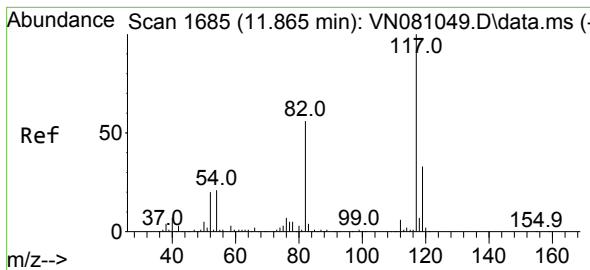
Tgt Ion: 92 Resp: 3755
Ion Ratio Lower Upper
92 100
91 175.5 139.4 209.0



#62
4-Bromofluorobenzene
Concen: 45.357 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN081135.D
Acq: 22 Feb 2024 15:11

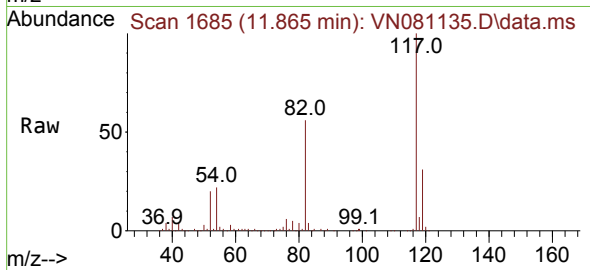
Tgt Ion: 95 Resp: 232705
Ion Ratio Lower Upper
95 100
174 71.8 0.0 120.4
176 69.2 0.0 121.0



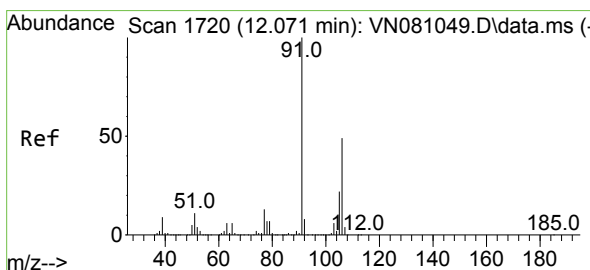
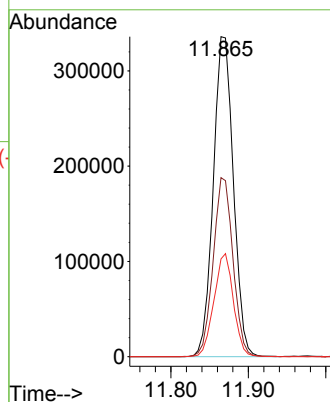
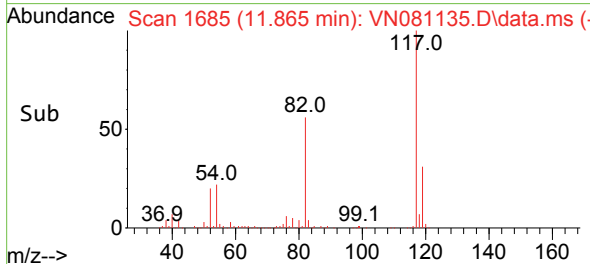


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN081135.D
Acq: 22 Feb 2024 15:11

Instrument :
MSVOA_N
ClientSampleId :

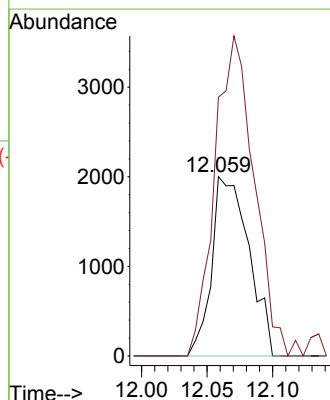
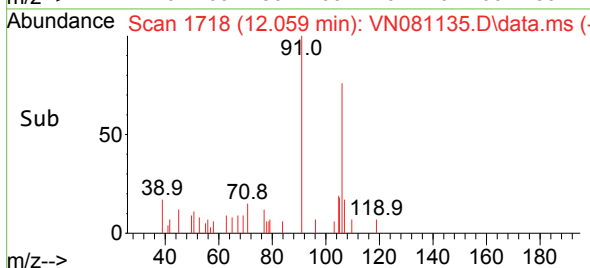
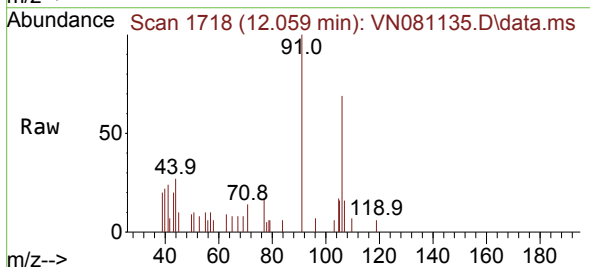


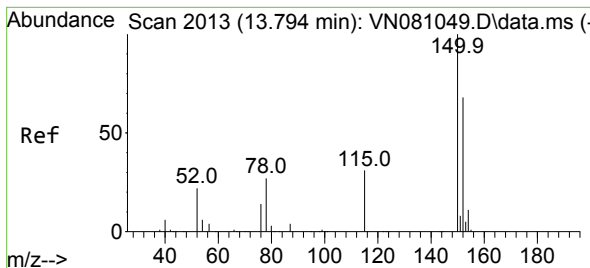
Tgt Ion:117 Resp: 604859
Ion Ratio Lower Upper
117 100
82 56.0 52.7 79.1
119 30.6 25.3 37.9



#68
m/p-Xylenes
Concen: 0.438 ug/l
RT: 12.059 min Scan# 1718
Delta R.T. -0.012 min
Lab File: VN081135.D
Acq: 22 Feb 2024 15:11

Tgt Ion:106 Resp: 3936
Ion Ratio Lower Upper
106 100
91 190.5 169.0 253.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. -0.000 min

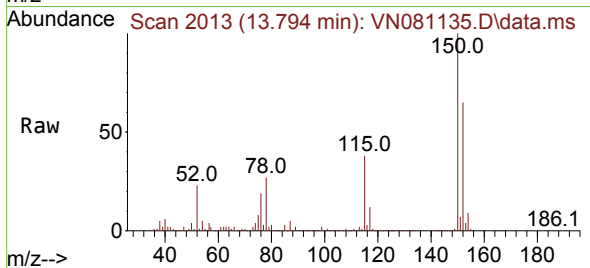
Lab File: VN081135.D

Acq: 22 Feb 2024 15:11

Instrument :

MSVOA_N

ClientSampleId :



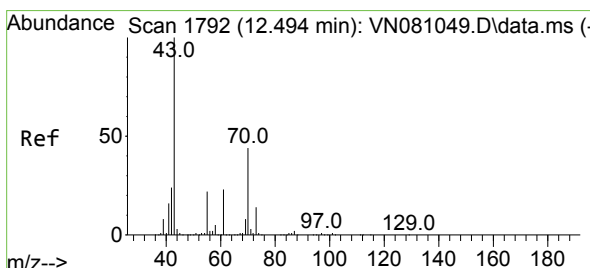
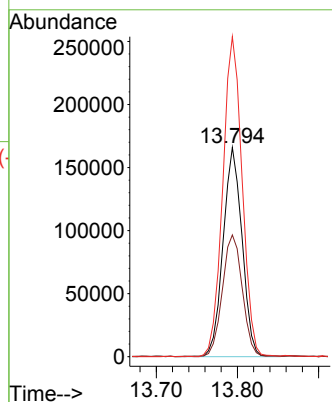
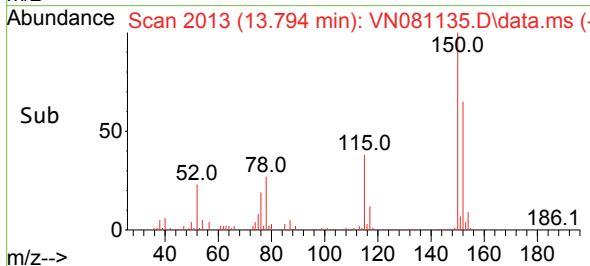
Tgt Ion:152 Resp: 268913

Ion Ratio Lower Upper

152 100

115 60.8 32.3 96.8

150 156.5 0.0 339.8



#74

N-ethyl acetate

Concen: 17.111 ug/l

RT: 12.423 min Scan# 1780

Delta R.T. -0.071 min

Lab File: VN081135.D

Acq: 22 Feb 2024 15:11

Tgt Ion: 43 Resp: 170147

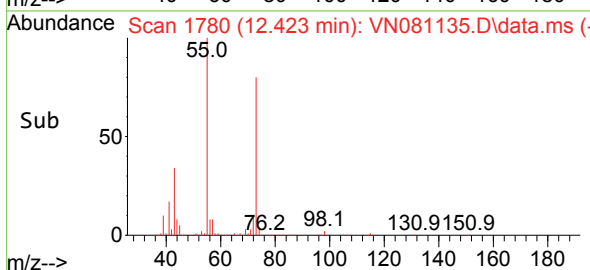
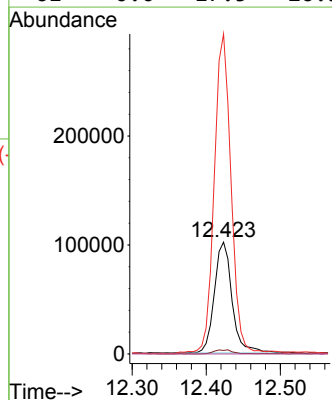
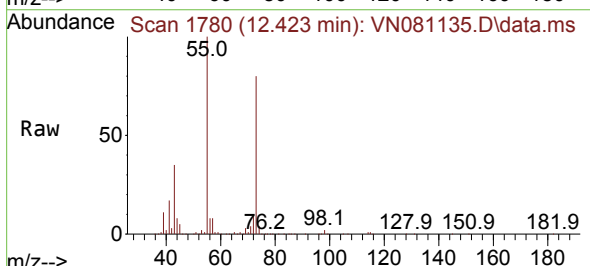
Ion Ratio Lower Upper

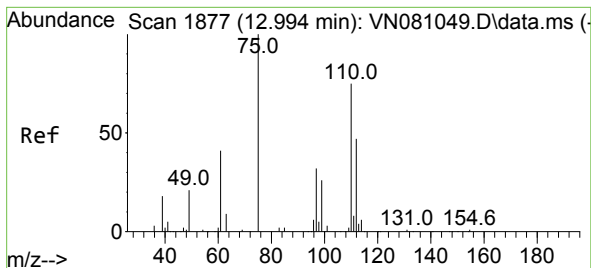
43 100

70 4.0 30.1 45.1#

55 272.1 17.0 25.4#

61 0.0 17.5 26.3#





#76

1,2,3-Trichloropropane

Concen: 21.234 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN081135.D

Acq: 22 Feb 2024 15:11

Instrument :

MSVOA_N

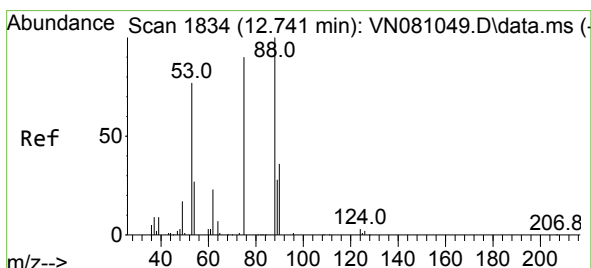
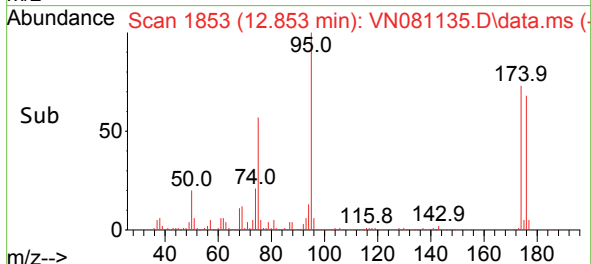
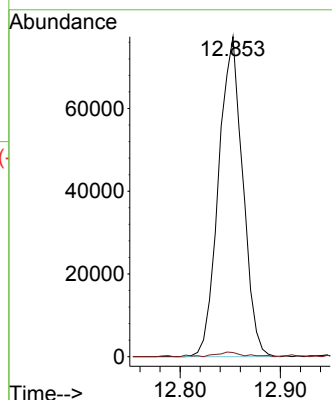
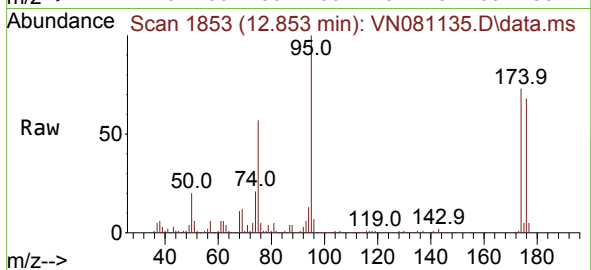
ClientSampleId :

Tgt Ion: 75 Resp: 129739

Ion Ratio Lower Upper

75 100

77 1.6 91.0 272.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 54.655 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN081135.D

Acq: 22 Feb 2024 15:11

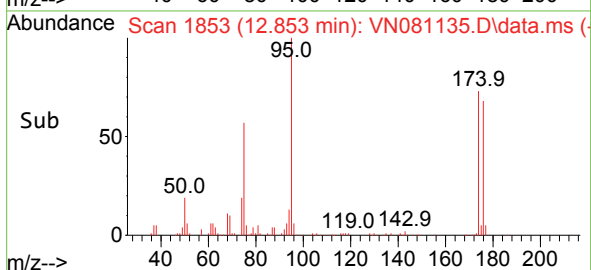
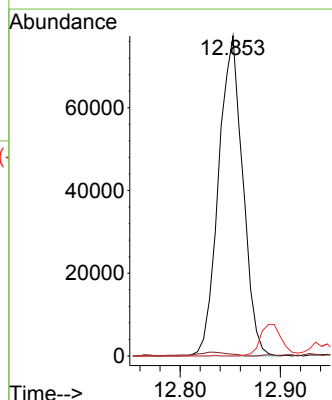
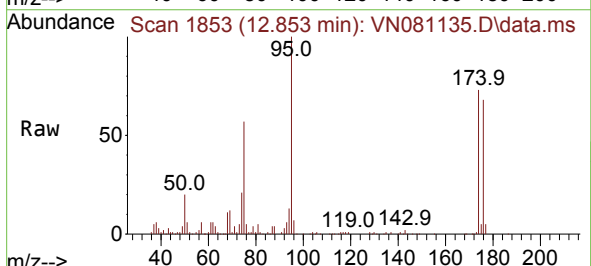
Tgt Ion: 75 Resp: 129739

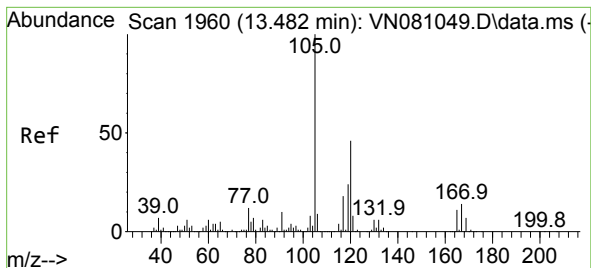
Ion Ratio Lower Upper

75 100

53 0.0 71.4 107.2#

89 0.0 33.4 50.0#





#84

1,2,4-Trimethylbenzene

Concen: 0.462 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. -0.000 min

Lab File: VN081135.D

Acq: 22 Feb 2024 15:11

Instrument :

MSVOA_N

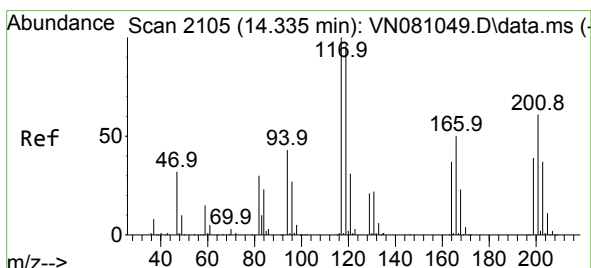
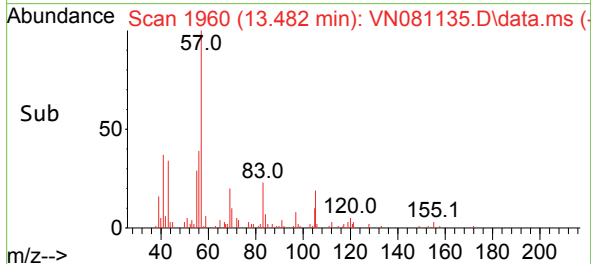
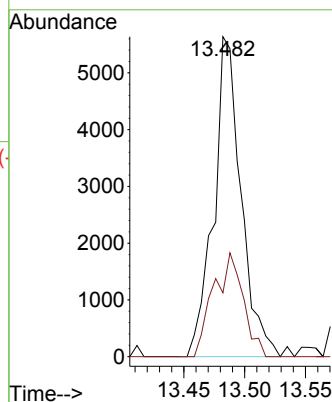
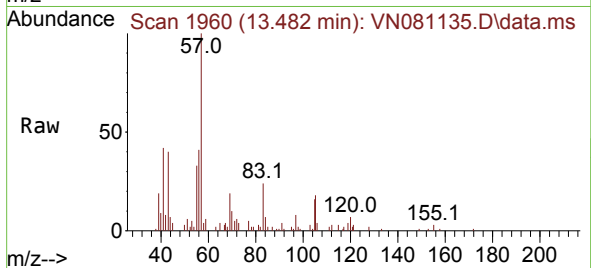
ClientSampleId :

Tgt Ion:105 Resp: 8789

Ion Ratio Lower Upper

105 100

120 35.4 20.9 62.7



#90

Hexachloroethane

Concen: 0.203 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. -0.006 min

Lab File: VN081135.D

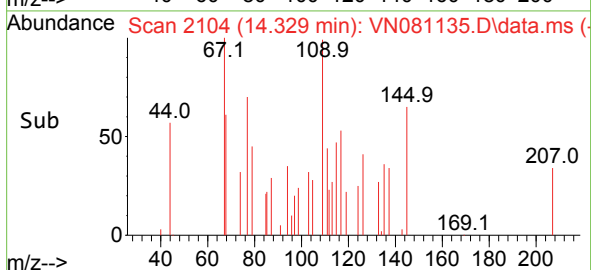
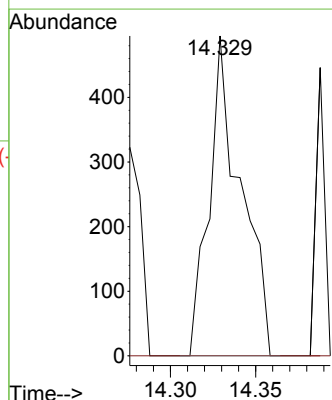
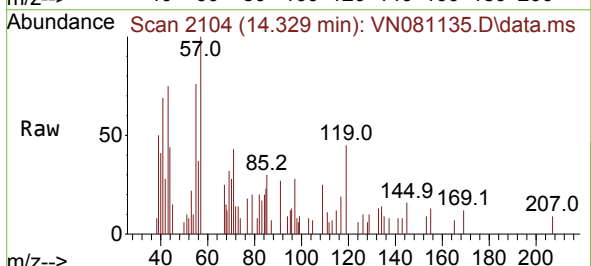
Acq: 22 Feb 2024 15:11

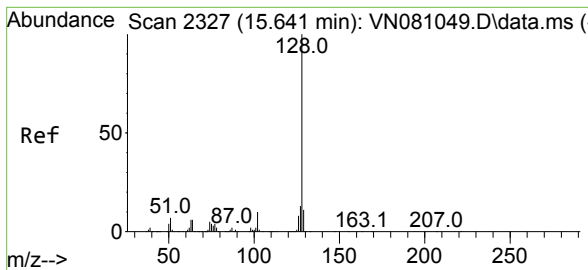
Tgt Ion:117 Resp: 639

Ion Ratio Lower Upper

117 100

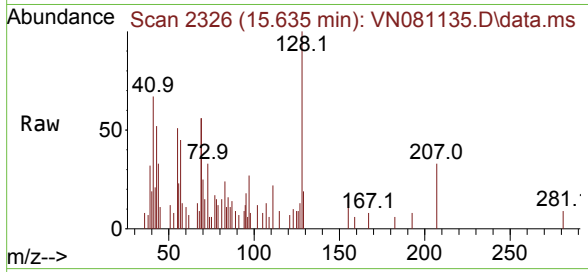
201 0.0 30.0 90.0#





#95
 Naphthalene
 Concen: 0.278 ug/l
 RT: 15.635 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN081135.D
 Acq: 22 Feb 2024 15:11

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	128	Resp:	5425
Ion Ratio	Lower	Upper	
128	100		
127	14.2	10.0	15.0
129	0.0	8.7	13.1#

