

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022224\
 Data File : VN081145.D
 Acq On : 22 Feb 2024 19:11
 Operator : JC\MD
 Sample : P1549-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 23 04:31:05 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)

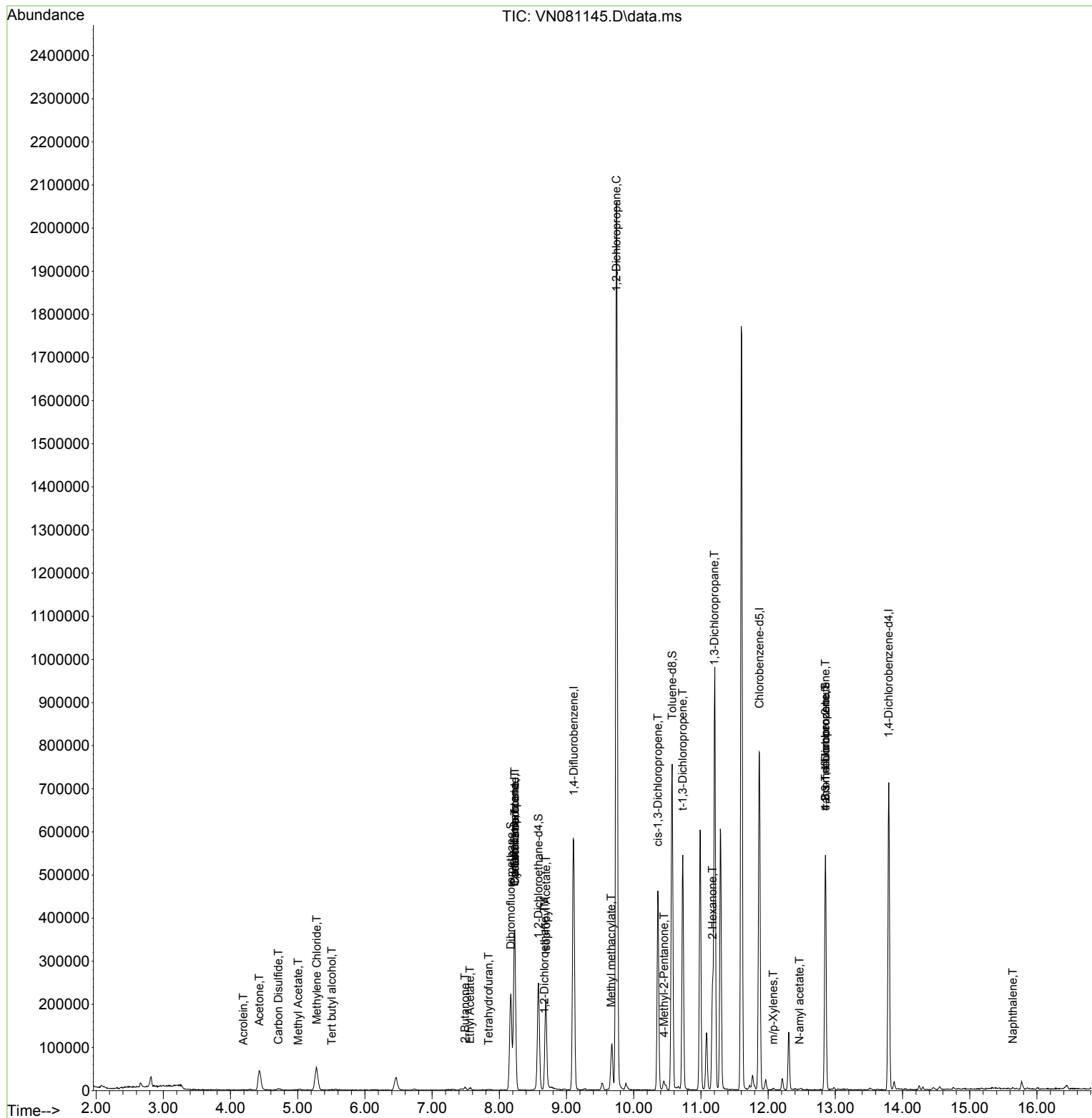
Internal Standards						
1) Pentafluorobenzene	8.224	168	265183	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	525090	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	462656	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	180850	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	193089	59.405	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 118.800%			
35) Dibromofluoromethane	8.171	113	160439	54.034	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.060%			
50) Toluene-d8	10.571	98	513800	48.720	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.440%			
62) 4-Bromofluorobenzene	12.853	95	189837	47.907	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 95.820%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1108	Below Cal	#	60
6) Chloroethane	3.101	64	146	Below Cal	#	42
11) Tert butyl alcohol	5.506	59	1025	1.715	ug/l #	72
13) Acrolein	4.189	56	1007	3.143	ug/l #	63
16) Acetone	4.430	43	85960	67.211	ug/l	100
17) Carbon Disulfide	4.712	76	3703	0.443	ug/l #	78
18) Methyl Acetate	5.006	43	1531	0.491	ug/l #	54
20) Methylene Chloride	5.283	84	40115	11.407	ug/l #	83
25) 2-Butanone	7.489	43	9773	4.730	ug/l #	83
29) Tetrahydrofuran	7.841	42	992	0.719	ug/l #	55
31) Cyclohexane	8.230	56	7408	1.320	ug/l #	14
36) 1,1-Dichloropropene	8.230	75	24685	4.853	ug/l #	50
37) Ethyl Acetate	7.565	43	7590	1.653	ug/l #	92
38) Carbon Tetrachloride	8.230	117	30748	5.974	ug/l #	17
42) 1,2-Dichloroethane	8.671	62	1056	0.206	ug/l #	75
43) Isopropyl Acetate	8.694	43	237149	29.535	ug/l #	91
45) 1,2-Dichloropropane	9.741	63	2751	0.747	ug/l #	42
48) Methyl methacrylate	9.665	41	6589	1.764	ug/l #	47
49) 1,4-Dioxane	9.741	88	234	Below Cal	#	1
51) 4-Methyl-2-Pentanone	10.453	43	20794	4.502	ug/l	89
53) t-1,3-Dichloropropene	10.730	75	1173	0.208	ug/l #	43
54) cis-1,3-Dichloropropene	10.359	75	83865	13.743	ug/l #	56
57) 1,3-Dichloropropane	11.200	76	10796	1.742	ug/l #	43
59) 2-Hexanone	11.171	43	190437	52.005	ug/l #	26
68) m/p-Xylenes	12.077	106	1613	0.235	ug/l #	71
74) N-amyl acetate	12.465	43	2122	0.317	ug/l #	49
76) 1,2,3-Trichloropropane	12.853	75	99858	24.302	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	99858	62.552	ug/l #	14
95) Naphthalene	15.641	128	2732	0.208	ug/l #	74

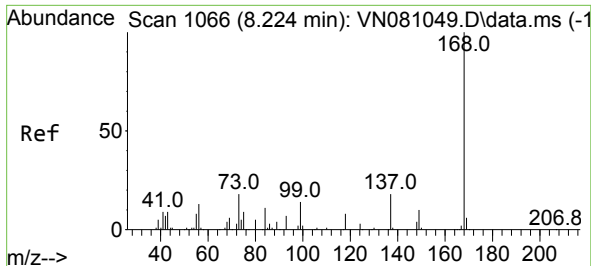
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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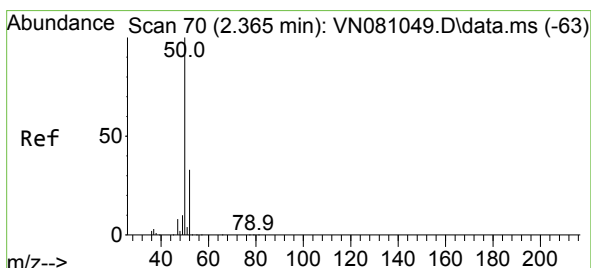
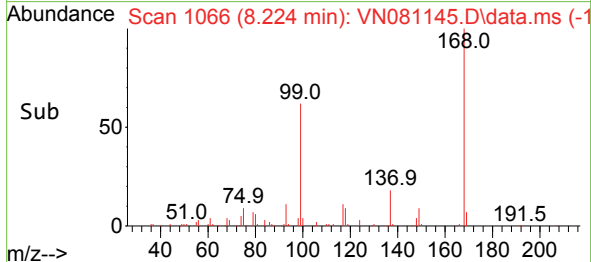
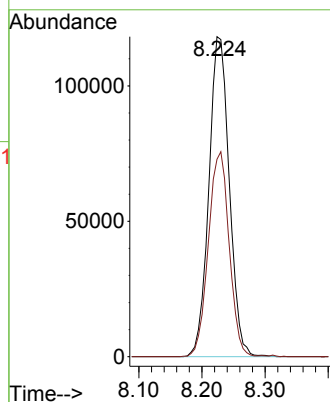
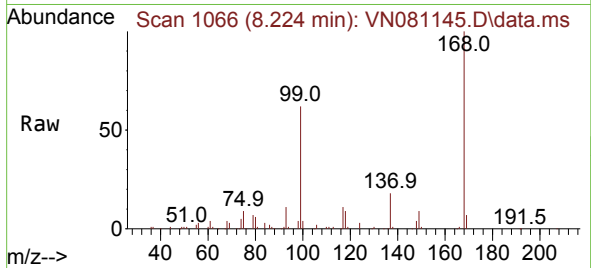




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN081145.D
Acq: 22 Feb 2024 19:11

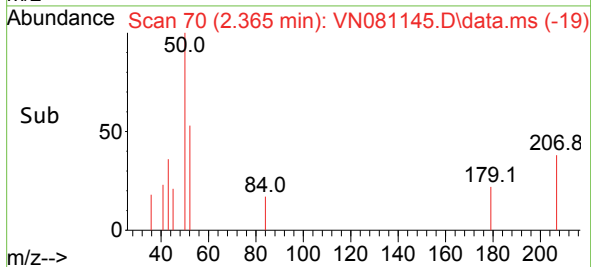
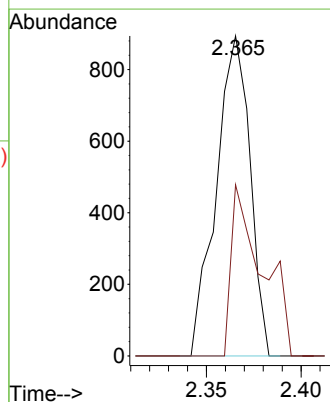
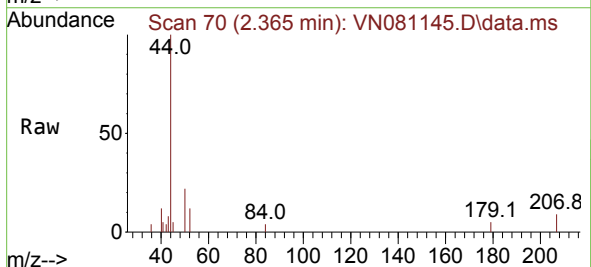
Instrument :
MSVOA_N
ClientSampleId :

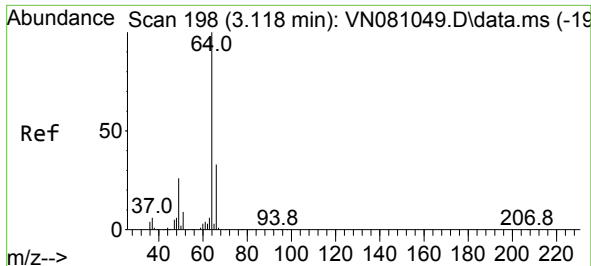
Tgt Ion:168 Resp: 265183
Ion Ratio Lower Upper
168 100
99 61.7 59.9 89.9



#3
Chloromethane
Concen: Below Cal
RT: 2.365 min Scan# 70
Delta R.T. 0.000 min
Lab File: VN081145.D
Acq: 22 Feb 2024 19:11

Tgt Ion: 50 Resp: 1108
Ion Ratio Lower Upper
50 100
52 53.5 25.0 37.4#

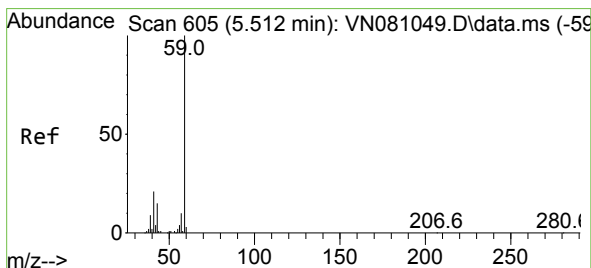
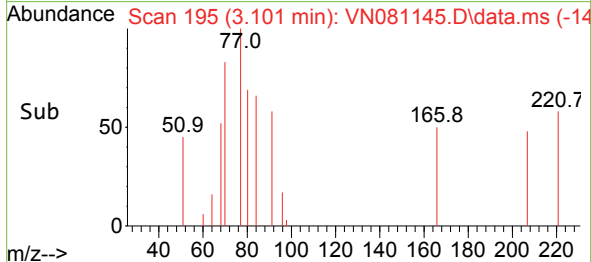
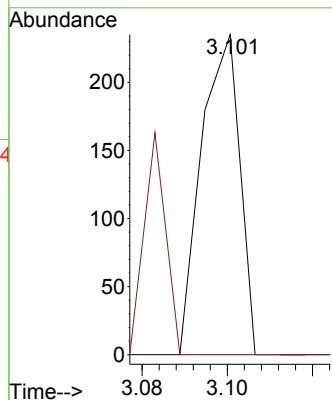
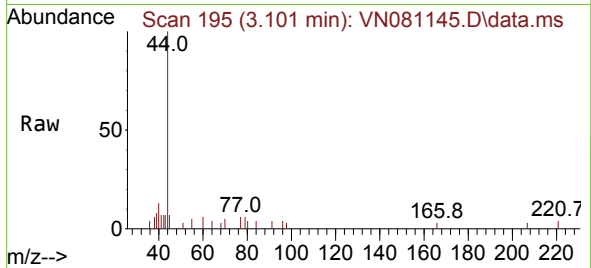




#6
Chloroethane
Concen: Below Cal
RT: 3.101 min Scan# 198
Delta R.T. -0.017 min
Lab File: VN081145.D
Acq: 22 Feb 2024 19:11

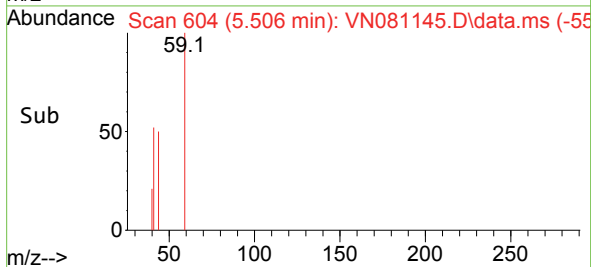
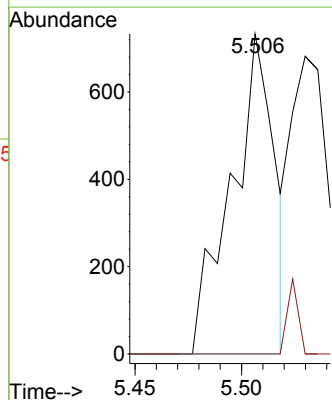
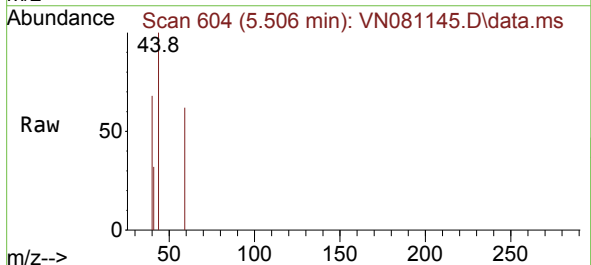
Instrument :
MSVOA_N
ClientSampleId :

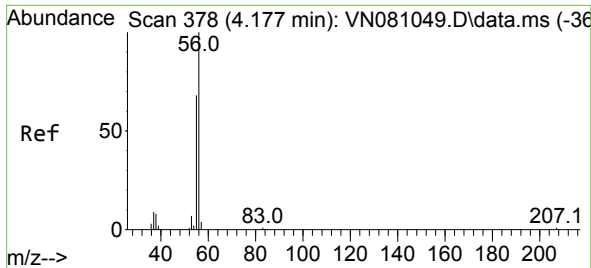
Tgt Ion: 64 Resp: 146
Ion Ratio Lower Upper
64 100
66 0.0 26.4 39.6#



#11
Tert butyl alcohol
Concen: 1.715 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.006 min
Lab File: VN081145.D
Acq: 22 Feb 2024 19:11

Tgt Ion: 59 Resp: 1025
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

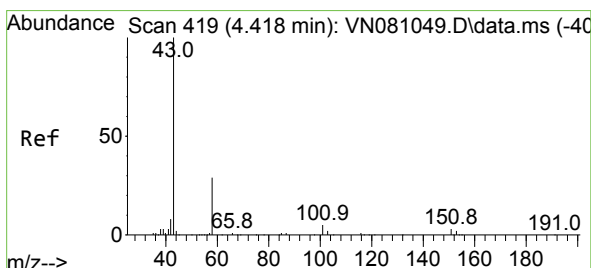
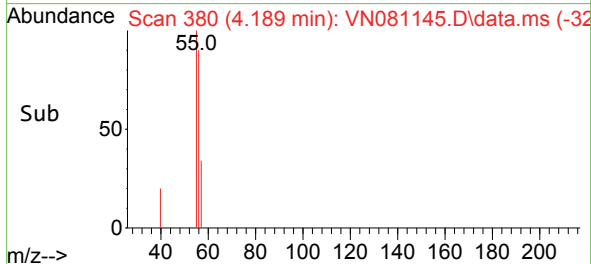
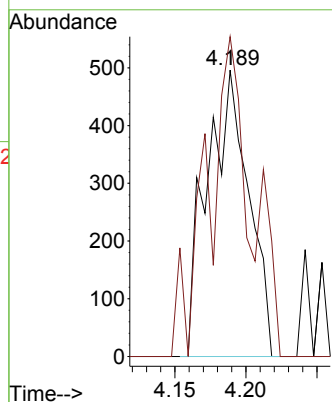
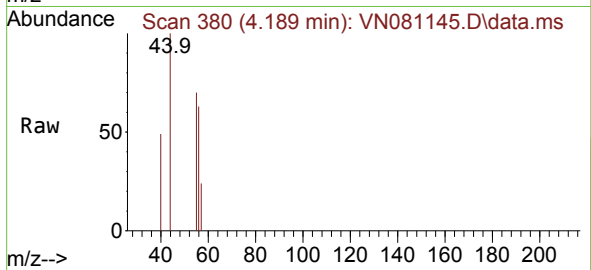




#13
Acrolein
Concen: 3.143 ug/l
RT: 4.189 min Scan# 378
Delta R.T. 0.012 min
Lab File: VN081145.D
Acq: 22 Feb 2024 19:11

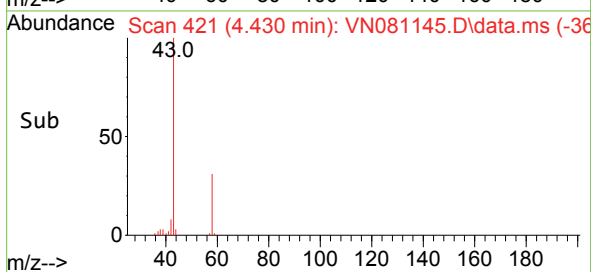
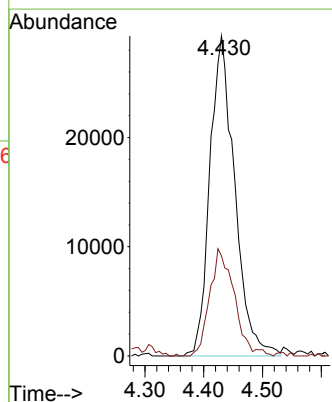
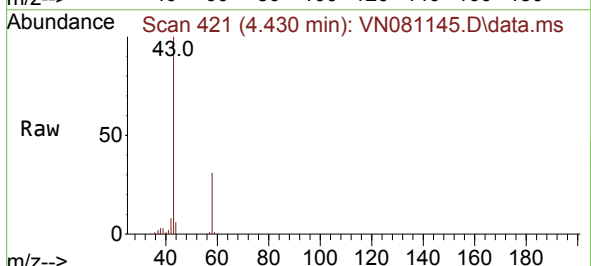
Instrument :
MSVOA_N
ClientSampleId :

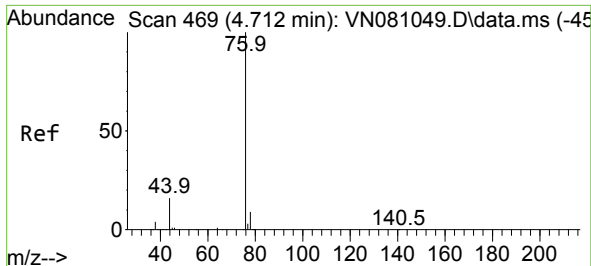
Tgt Ion: 56 Resp: 1007
Ion Ratio Lower Upper
56 100
55 99.1 55.3 82.9#



#16
Acetone
Concen: 67.211 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.012 min
Lab File: VN081145.D
Acq: 22 Feb 2024 19:11

Tgt Ion: 43 Resp: 85960
Ion Ratio Lower Upper
43 100
58 31.2 24.8 37.2

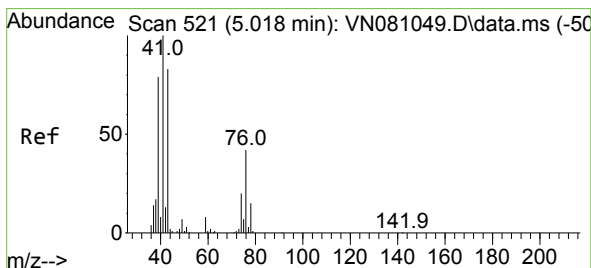
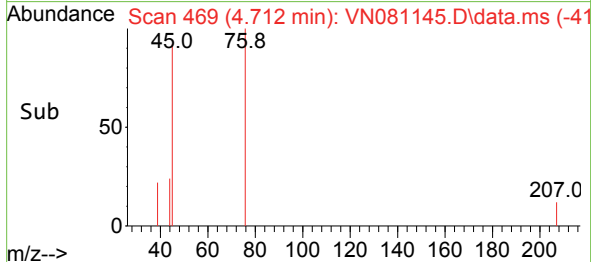
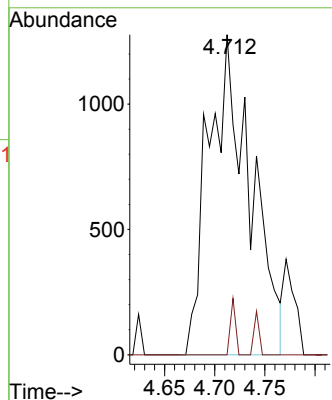
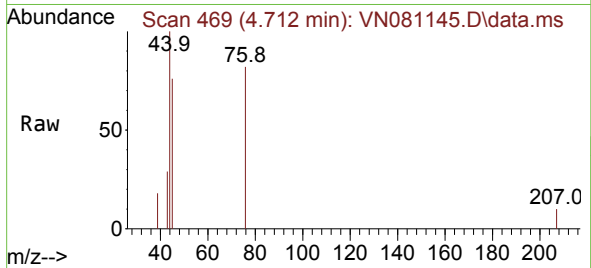




#17
Carbon Disulfide
Concen: 0.443 ug/l
RT: 4.712 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN081145.D
Acq: 22 Feb 2024 19:11

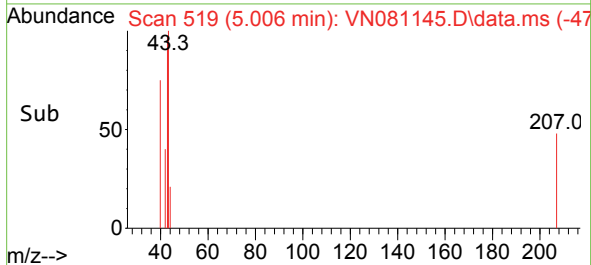
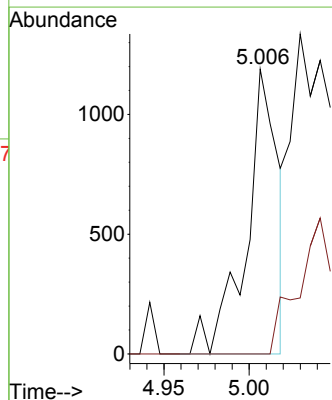
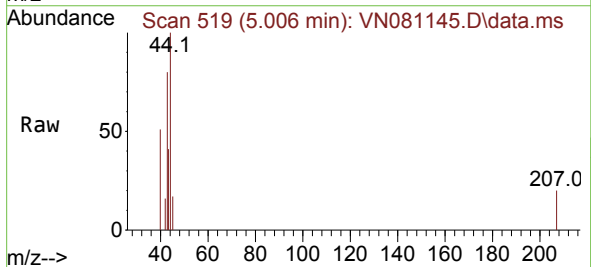
Instrument :
MSVOA_N
ClientSampleId :

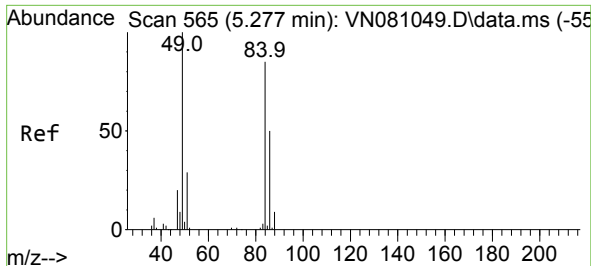
Tgt Ion: 76 Resp: 3703
Ion Ratio Lower Upper
76 100
78 0.0 6.3 9.5#



#18
Methyl Acetate
Concen: 0.491 ug/l
RT: 5.006 min Scan# 519
Delta R.T. -0.012 min
Lab File: VN081145.D
Acq: 22 Feb 2024 19:11

Tgt Ion: 43 Resp: 1531
Ion Ratio Lower Upper
43 100
74 0.0 17.3 25.9#





#20

Methylene Chloride

Concen: 11.407 ug/l

RT: 5.283 min Scan# 50

Delta R.T. 0.006 min

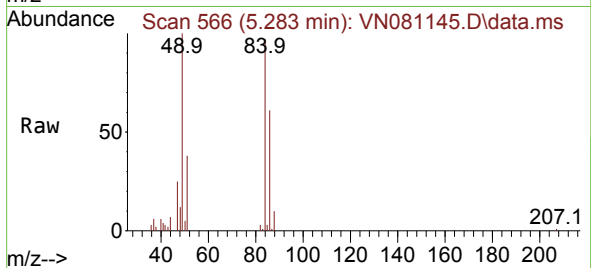
Lab File: VN081145.D

Acq: 22 Feb 2024 19:11

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 84 Resp: 40115

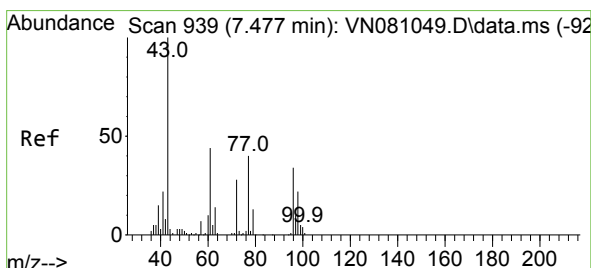
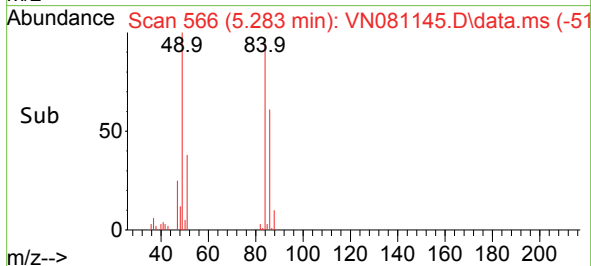
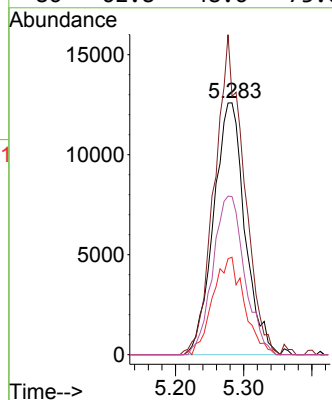
Ion	Ratio	Lower	Upper
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84	100		
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49	102.7	108.1	162.1#
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51	38.7	32.9	49.3
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86	62.8	48.6	73.0
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#25

2-Butanone

Concen: 4.730 ug/l

RT: 7.489 min Scan# 941

Delta R.T. 0.012 min

Lab File: VN081145.D

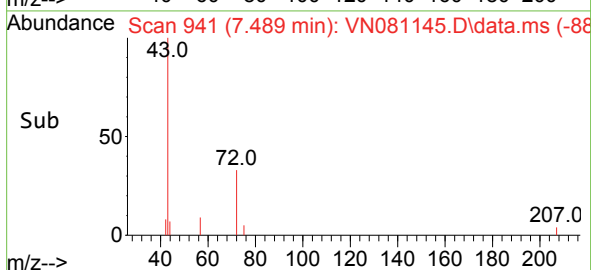
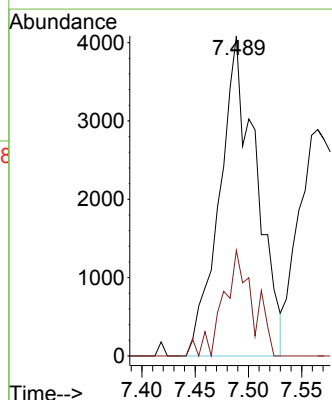
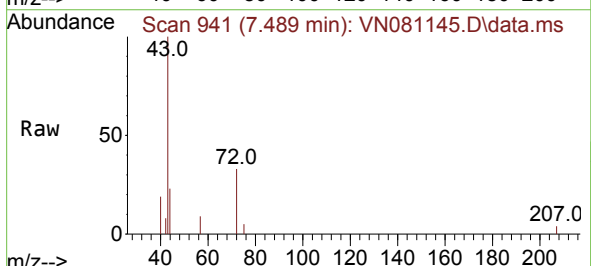
Acq: 22 Feb 2024 19:11

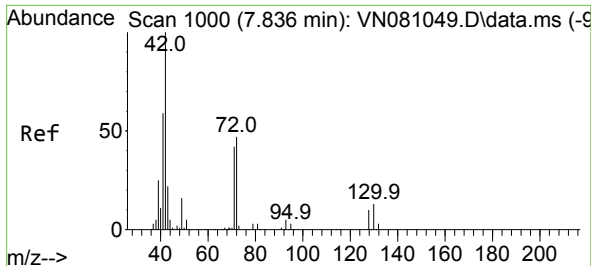
Tgt Ion: 43 Resp: 9773

Ion	Ratio	Lower	Upper
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43	100		
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72	33.0	19.5	29.3#
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#29

Tetrahydrofuran

Concen: 0.719 ug/l

RT: 7.841 min Scan# 10

Delta R.T. 0.006 min

Lab File: VN081145.D

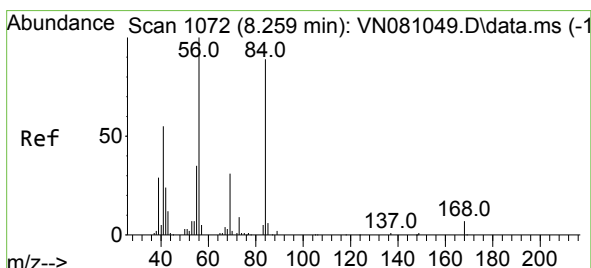
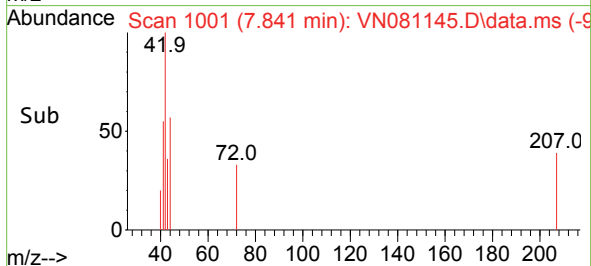
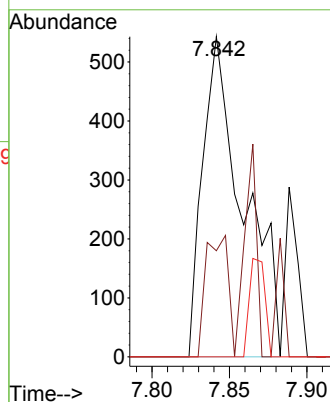
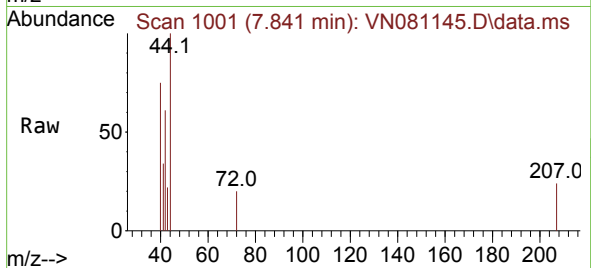
Acq: 22 Feb 2024 19:11

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 42	Resp:	992
Ion Ratio	Lower	Upper
42	100	
72	20.7	31.1 46.7#
71	0.0	28.3 42.5#



#31

Cyclohexane

Concen: 1.320 ug/l

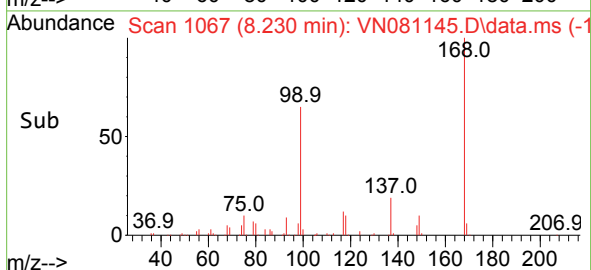
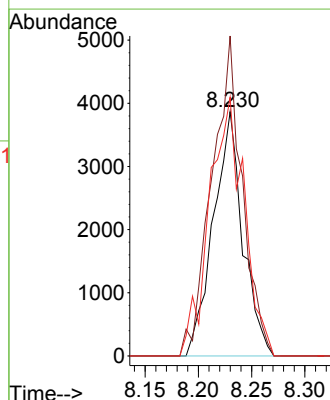
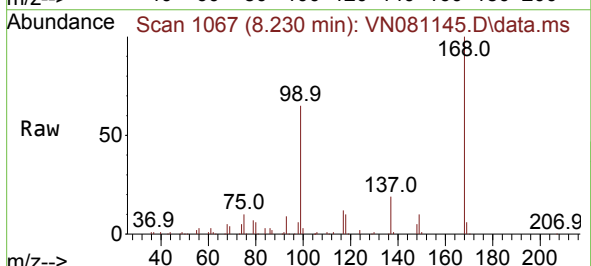
RT: 8.230 min Scan# 1067

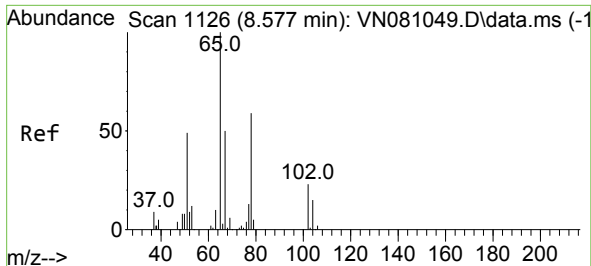
Delta R.T. -0.029 min

Lab File: VN081145.D

Acq: 22 Feb 2024 19:11

Tgt Ion: 56	Resp:	7408
Ion Ratio	Lower	Upper
56	100	
69	131.0	20.1 30.1#
84	105.9	56.9 85.3#





#33

1,2-Dichloroethane-d4

Concen: 59.405 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN081145.D

Acq: 22 Feb 2024 19:11

Instrument :

MSVOA_N

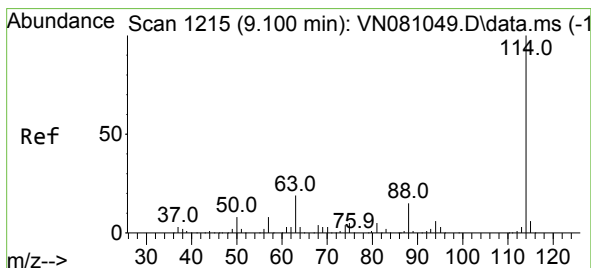
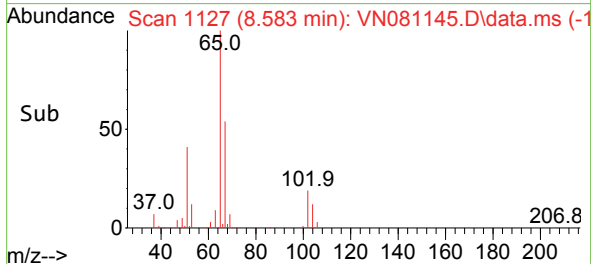
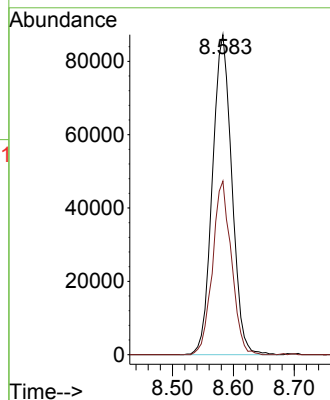
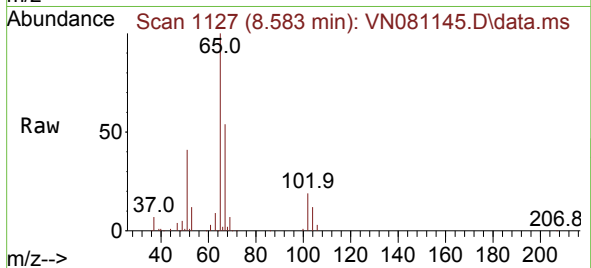
ClientSampleId :

Tgt Ion: 65 Resp: 193089

Ion Ratio Lower Upper

65 100

67 52.8 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.006 min

Lab File: VN081145.D

Acq: 22 Feb 2024 19:11

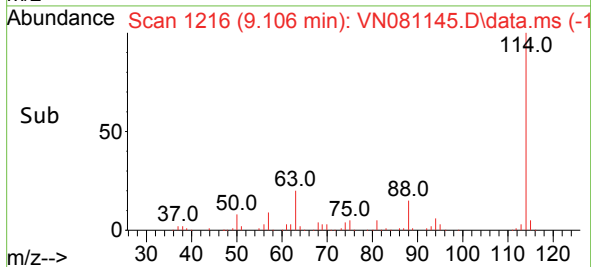
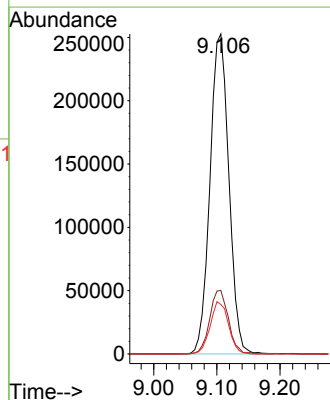
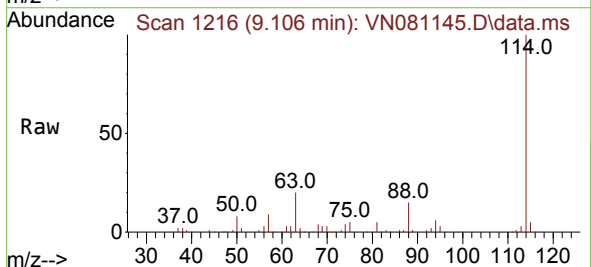
Tgt Ion: 114 Resp: 525090

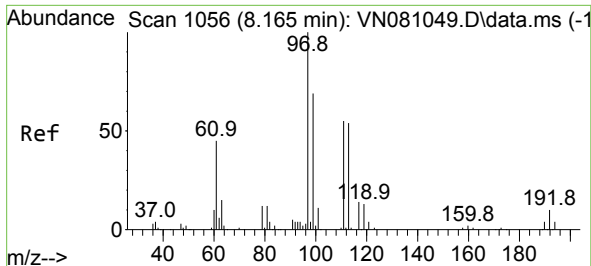
Ion Ratio Lower Upper

114 100

63 19.8 0.0 48.0

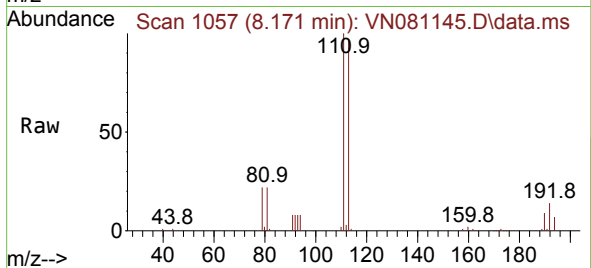
88 15.5 0.0 34.8



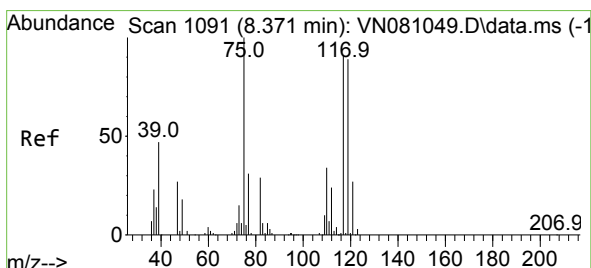
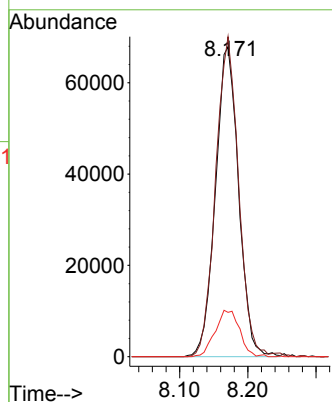
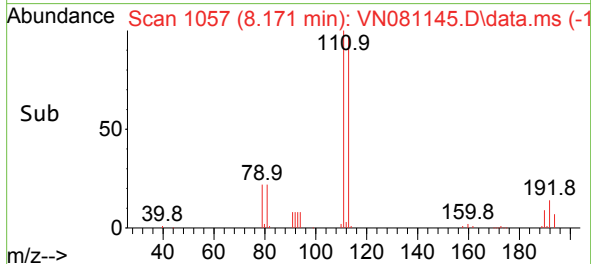


#35
Dibromofluoromethane
Concen: 54.034 ug/l
RT: 8.171 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN081145.D
Acq: 22 Feb 2024 19:11

Instrument :
MSVOA_N
ClientSampleId :

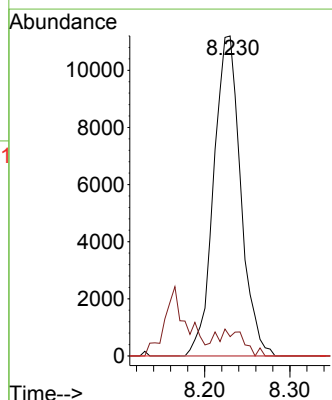
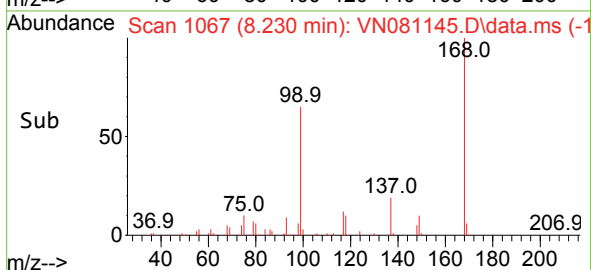
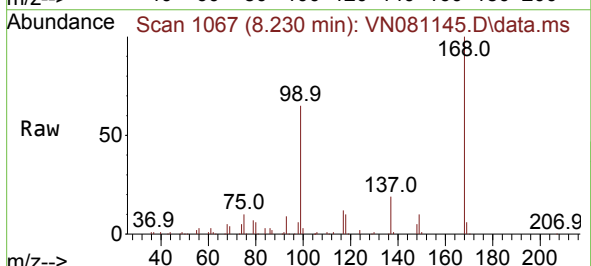


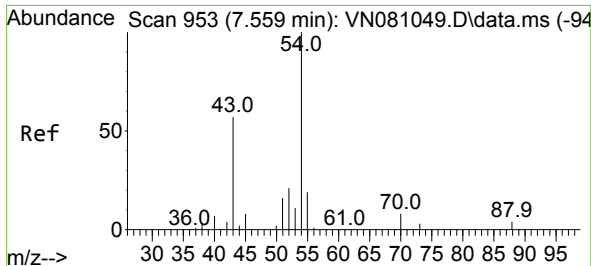
Tgt Ion:113 Resp: 160439
Ion Ratio Lower Upper
113 100
111 102.1 82.2 123.4
192 15.8 12.5 18.7



#36
1,1-Dichloropropene
Concen: 4.853 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN081145.D
Acq: 22 Feb 2024 19:11

Tgt Ion: 75 Resp: 24685
Ion Ratio Lower Upper
75 100
110 8.7 16.0 48.0#
77 0.0 25.8 38.6#





#37

Ethyl Acetate

Concen: 1.653 ug/l

RT: 7.565 min Scan# 91

Delta R.T. 0.006 min

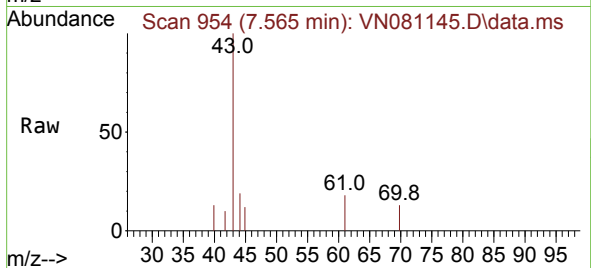
Lab File: VN081145.D

Acq: 22 Feb 2024 19:11

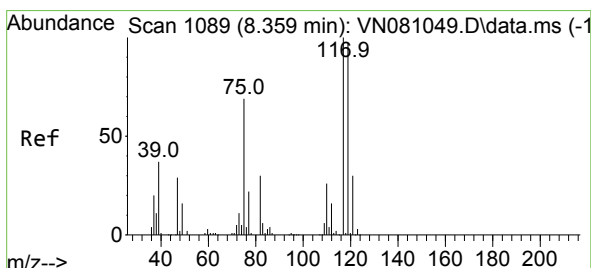
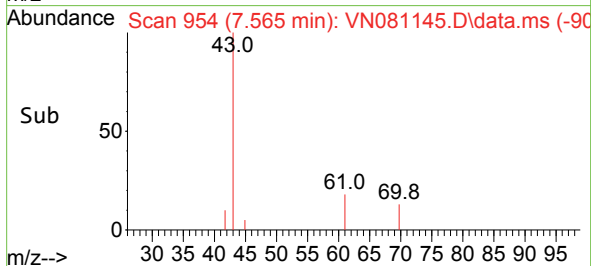
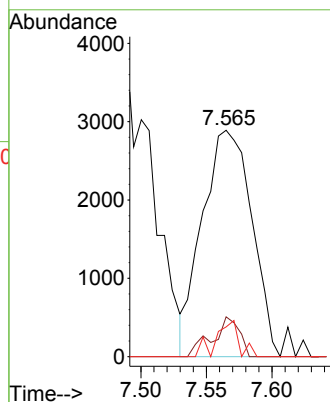
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	7590
Ion	Ratio	Lower	Upper
43	100		
61	9.5	10.6	15.8#
70	7.4	8.0	12.0#



#38

Carbon Tetrachloride

Concen: 5.974 ug/l

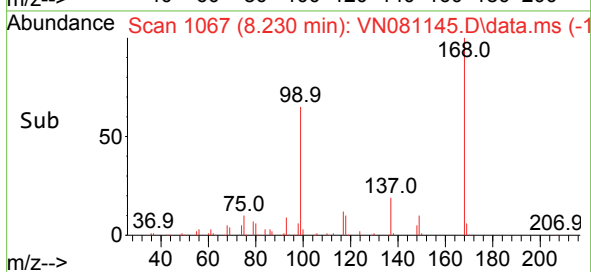
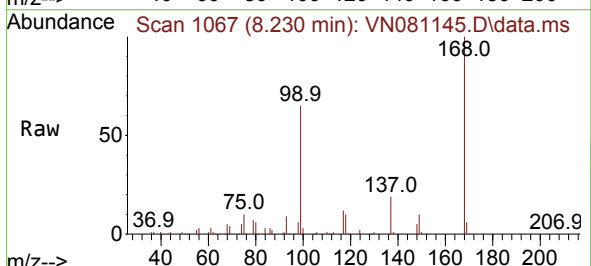
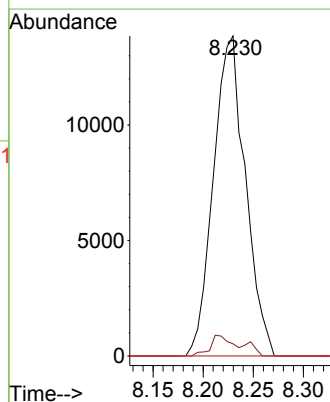
RT: 8.230 min Scan# 1067

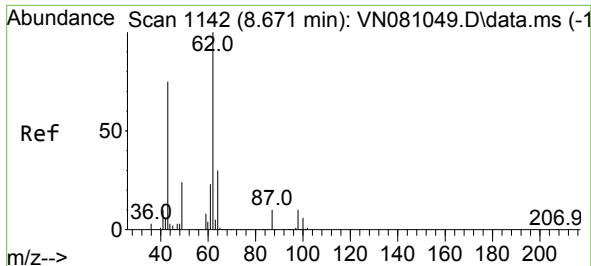
Delta R.T. -0.129 min

Lab File: VN081145.D

Acq: 22 Feb 2024 19:11

Tgt Ion:	117	Resp:	30748
Ion	Ratio	Lower	Upper
117	100		
119	3.8	73.4	110.2#
121	0.0	24.4	36.6#





#42

1,2-Dichloroethane

Concen: 0.206 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. 0.000 min

Lab File: VN081145.D

Acq: 22 Feb 2024 19:11

Instrument :

MSVOA_N

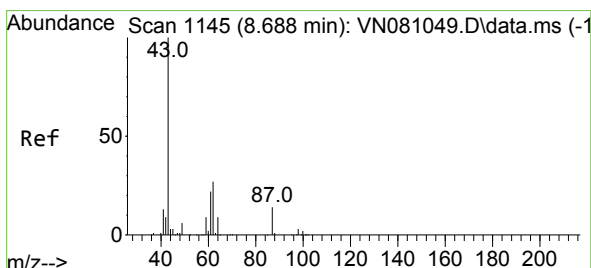
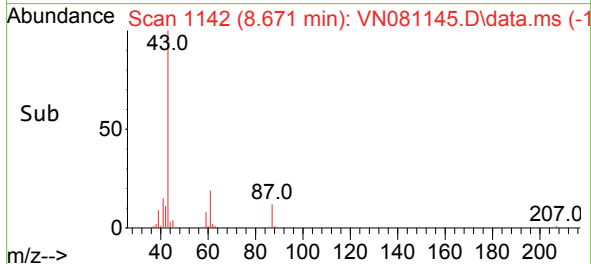
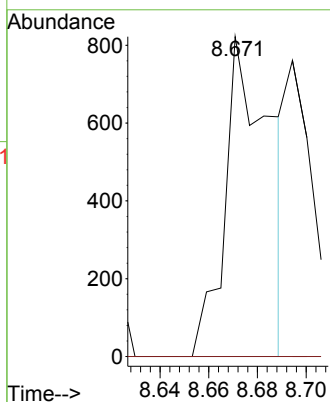
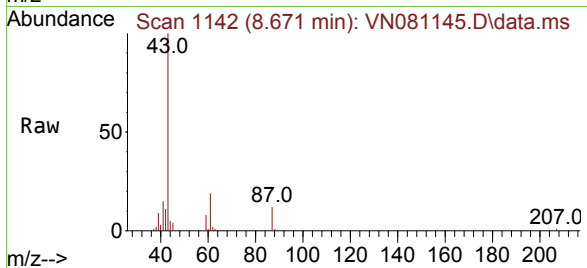
ClientSampleId :

Tgt Ion: 62 Resp: 1056

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.0



#43

Isopropyl Acetate

Concen: 29.535 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.006 min

Lab File: VN081145.D

Acq: 22 Feb 2024 19:11

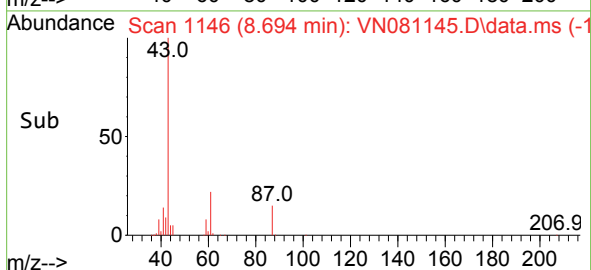
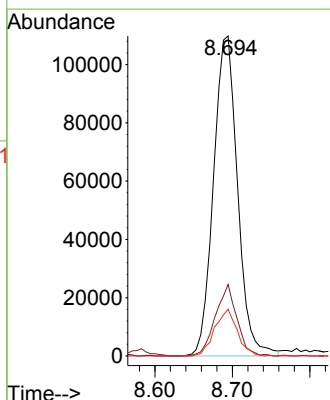
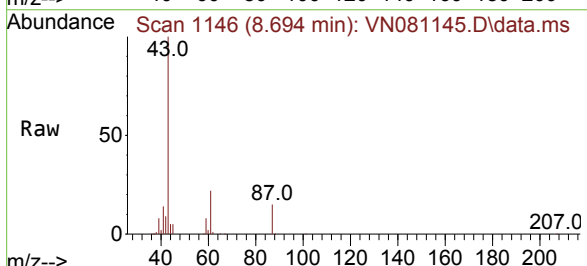
Tgt Ion: 43 Resp: 237149

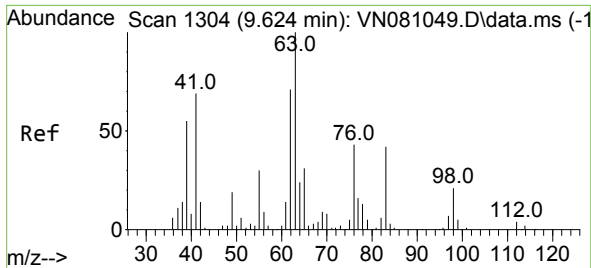
Ion Ratio Lower Upper

43 100

61 20.0 19.9 29.9

87 13.7 9.0 13.6#

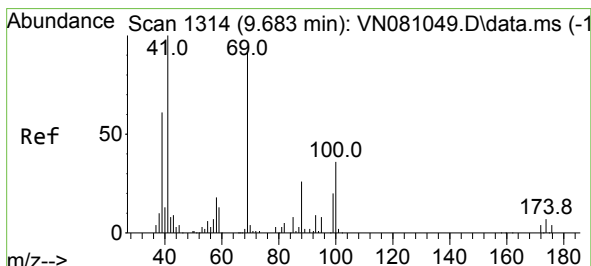
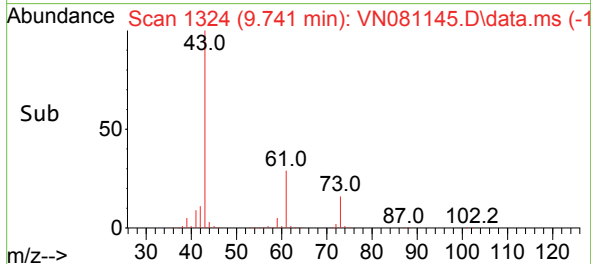
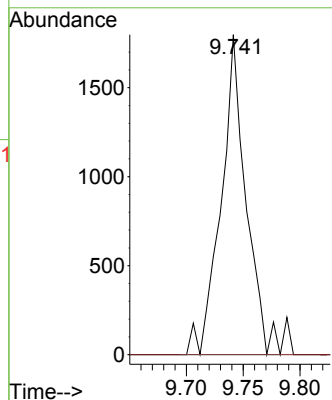
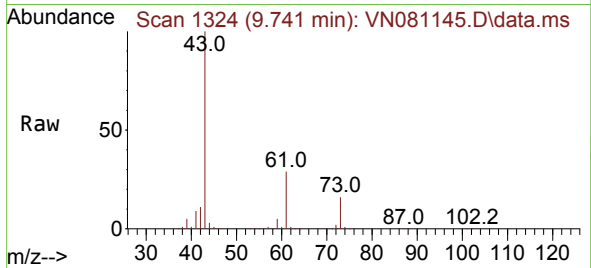




#45
1,2-Dichloropropane
Concen: 0.747 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.118 min
Lab File: VN081145.D
Acq: 22 Feb 2024 19:11

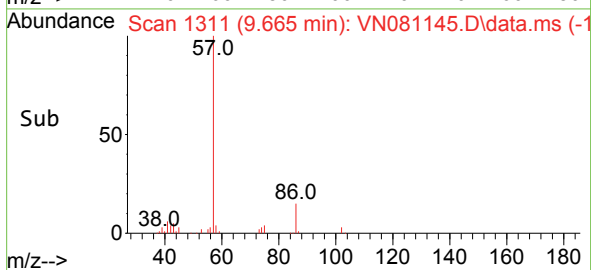
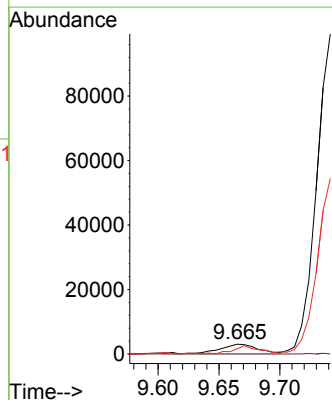
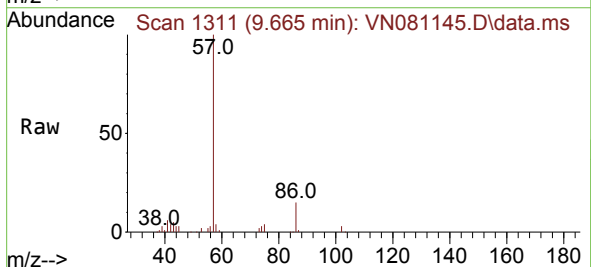
Instrument :
MSVOA_N
ClientSampleId :

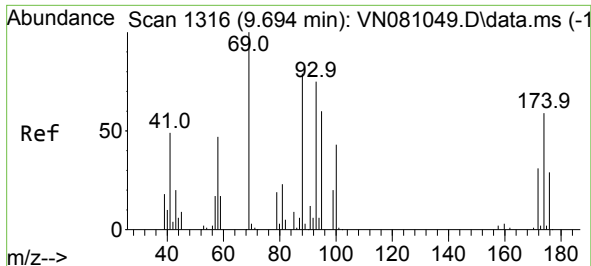
Tgt Ion: 63 Resp: 2751
Ion Ratio Lower Upper
63 100
65 0.0 26.1 39.1#



#48
Methyl methacrylate
Concen: 1.764 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. -0.018 min
Lab File: VN081145.D
Acq: 22 Feb 2024 19:11

Tgt Ion: 41 Resp: 6589
Ion Ratio Lower Upper
41 100
69 0.0 62.2 93.2#
39 56.3 47.6 71.4





#49

1,4-Dioxane

Concen: Below Cal

RT: 9.741 min Scan# 1

Delta R.T. 0.047 min

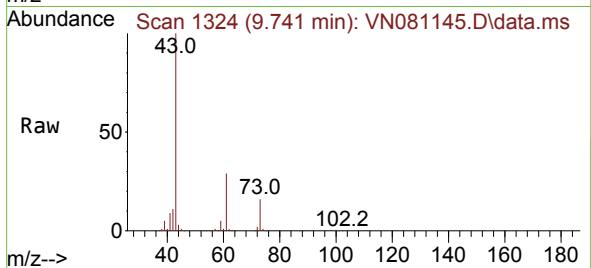
Lab File: VN081145.D

Acq: 22 Feb 2024 19:11

Instrument :

MSVOA_N

ClientSampleId :



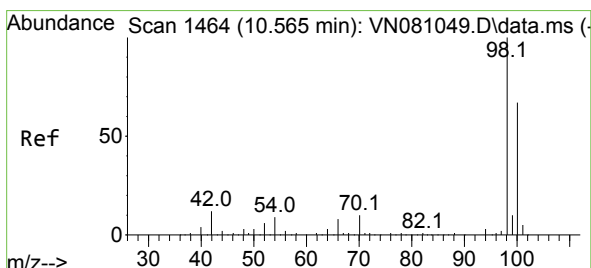
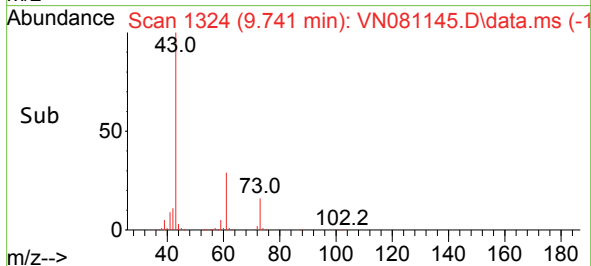
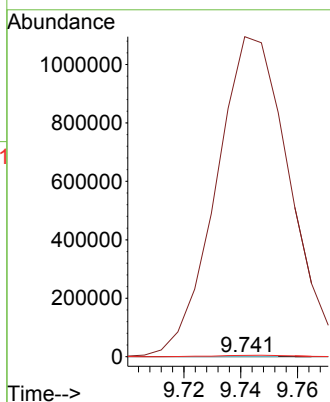
Tgt Ion: 88 Resp: 234

Ion Ratio Lower Upper

88 100

43 848433.3 30.1 45.1#

58 4094.0 63.9 95.9#



#50

Toluene-d8

Concen: 48.720 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.006 min

Lab File: VN081145.D

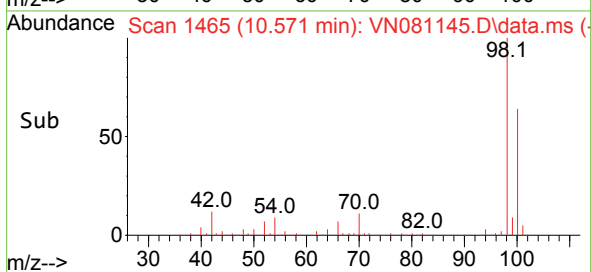
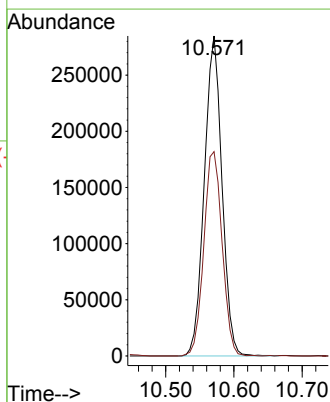
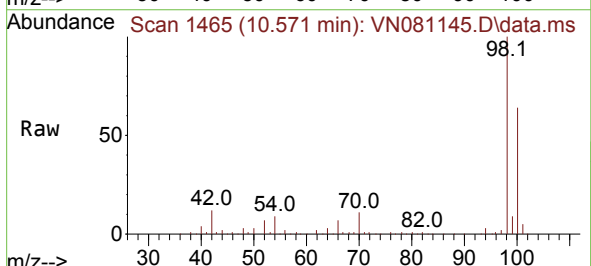
Acq: 22 Feb 2024 19:11

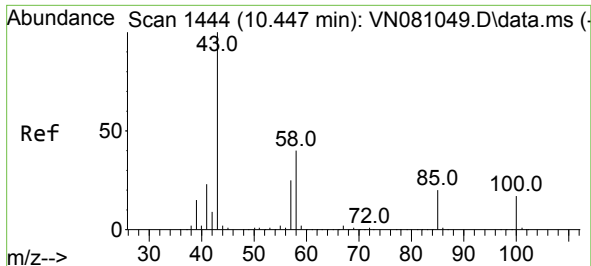
Tgt Ion: 98 Resp: 513800

Ion Ratio Lower Upper

98 100

100 66.1 51.4 77.0

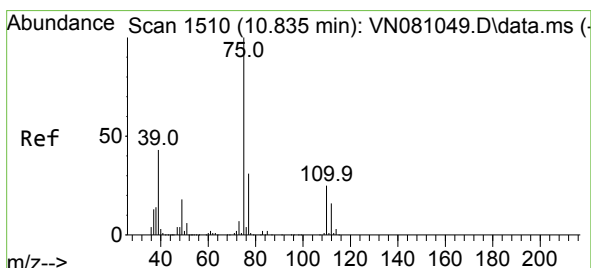
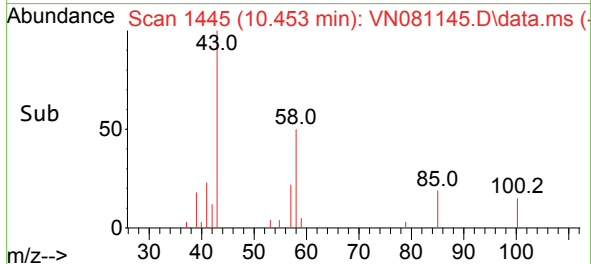
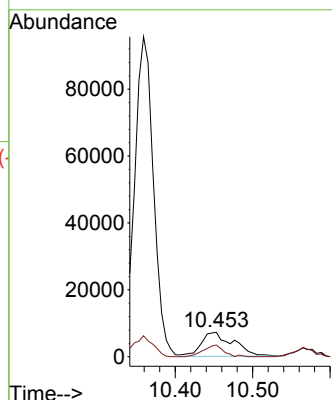
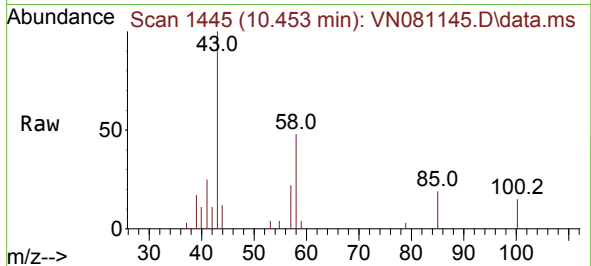




#51
4-Methyl-2-Pentanone
Concen: 4.502 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN081145.D
Acq: 22 Feb 2024 19:11

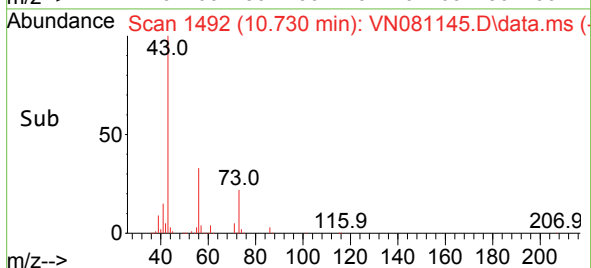
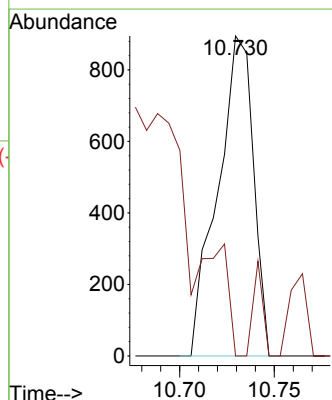
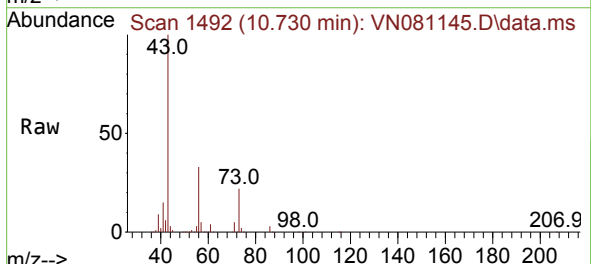
Instrument :
MSVOA_N
ClientSampleId :

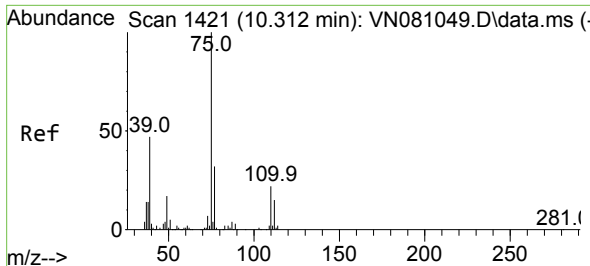
Tgt Ion: 43 Resp: 20794
Ion Ratio Lower Upper
43 100
58 30.3 29.4 44.0



#53
t-1,3-Dichloropropene
Concen: 0.208 ug/l
RT: 10.730 min Scan# 1492
Delta R.T. -0.106 min
Lab File: VN081145.D
Acq: 22 Feb 2024 19:11

Tgt Ion: 75 Resp: 1173
Ion Ratio Lower Upper
75 100
77 0.0 25.5 38.3#

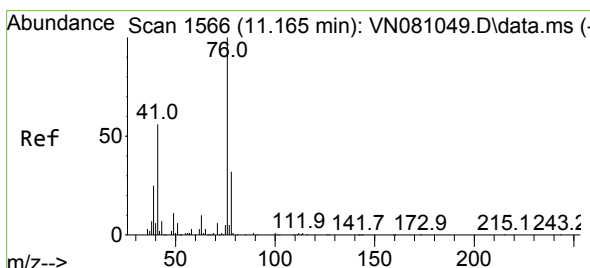
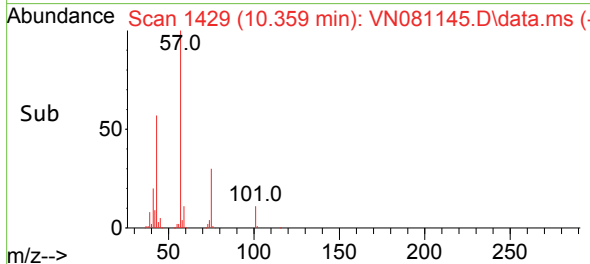
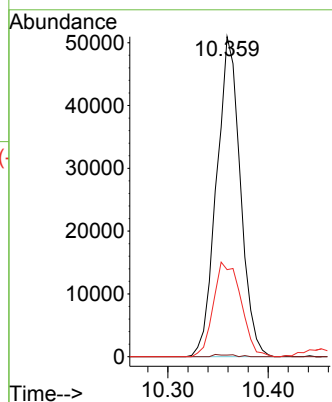
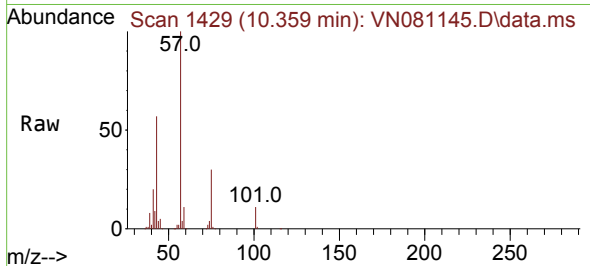




#54
 cis-1,3-Dichloropropene
 Concen: 13.743 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN081145.D
 Acq: 22 Feb 2024 19:11

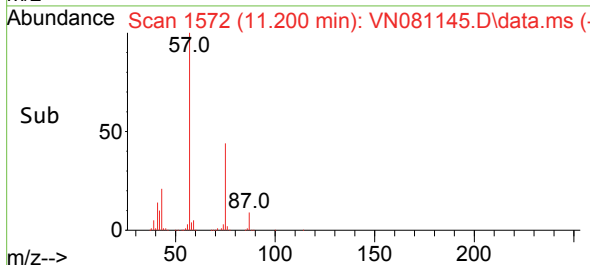
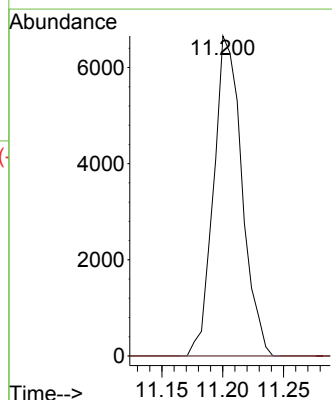
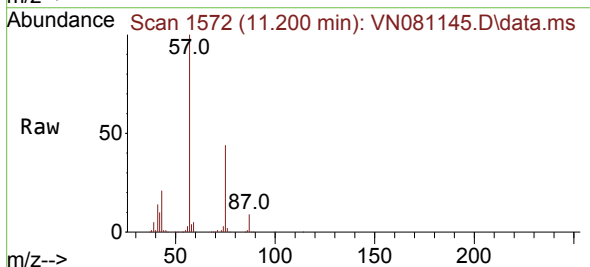
Instrument :
 MSVOA_N
 ClientSampleId :

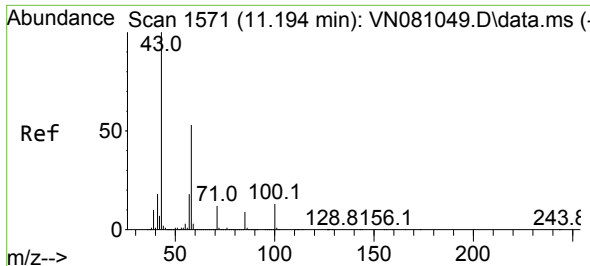
Tgt Ion: 75 Resp: 83865
 Ion Ratio Lower Upper
 75 100
 77 0.5 23.3 34.9#
 39 27.2 44.6 66.8#



#57
 1,3-Dichloropropane
 Concen: 1.742 ug/l
 RT: 11.200 min Scan# 1572
 Delta R.T. 0.035 min
 Lab File: VN081145.D
 Acq: 22 Feb 2024 19:11

Tgt Ion: 76 Resp: 10796
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.5 38.3#

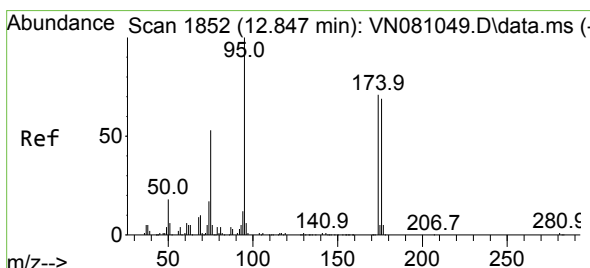
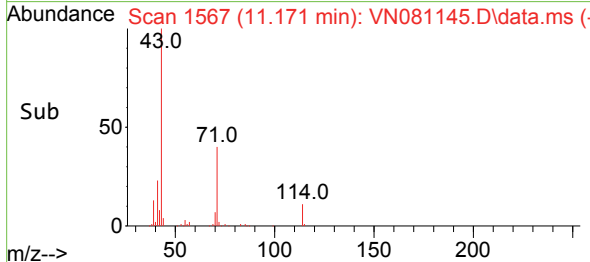
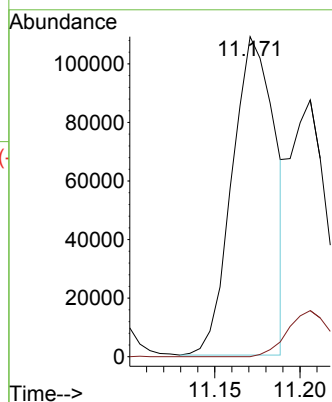
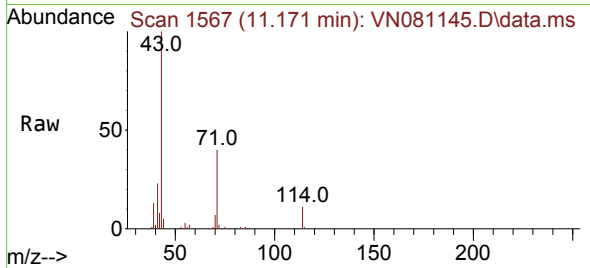




#59
2-Hexanone
Concen: 52.005 ug/l
RT: 11.171 min Scan# 1117
Delta R.T. -0.023 min
Lab File: VN081145.D
Acq: 22 Feb 2024 19:11

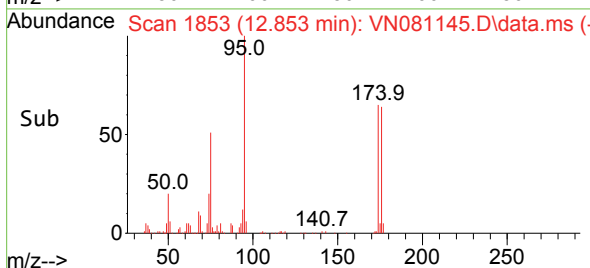
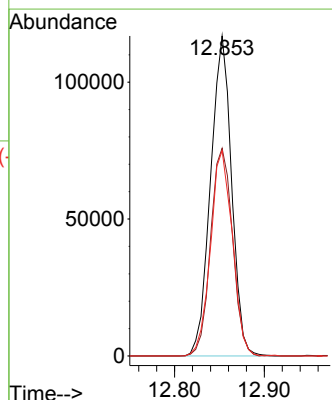
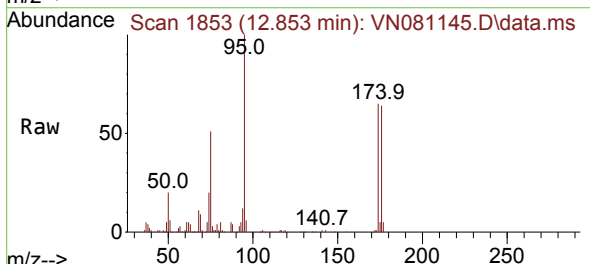
Instrument :
MSVOA_N
ClientSampleId :

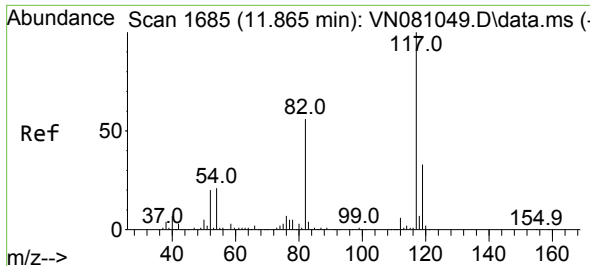
Tgt Ion: 43 Resp: 190437
Ion Ratio Lower Upper
43 100
58 0.0 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 47.907 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN081145.D
Acq: 22 Feb 2024 19:11

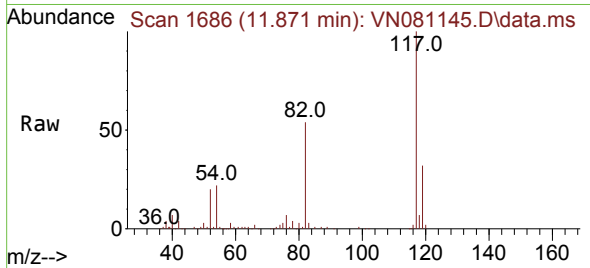
Tgt Ion: 95 Resp: 189837
Ion Ratio Lower Upper
95 100
174 67.8 0.0 120.4
176 66.8 0.0 121.0



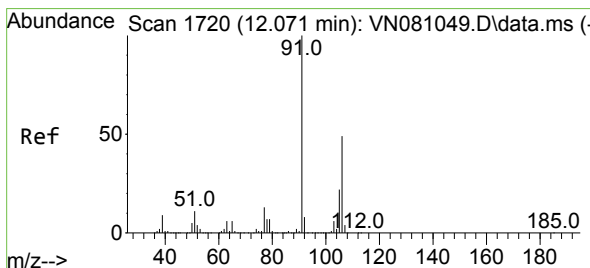
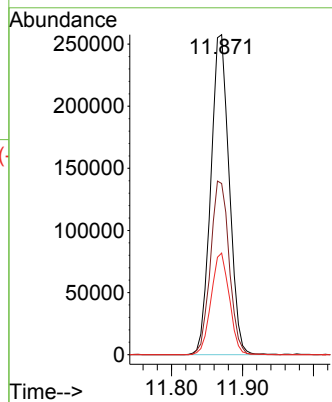
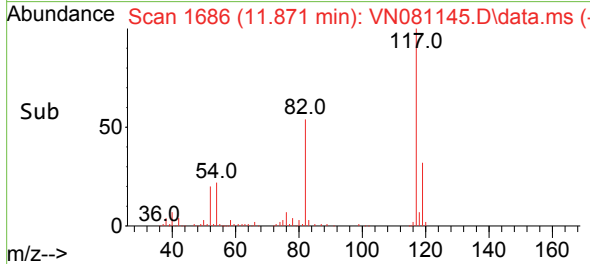


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 117
Delta R.T. 0.006 min
Lab File: VN081145.D
Acq: 22 Feb 2024 19:11

Instrument :
MSVOA_N
ClientSampleId :

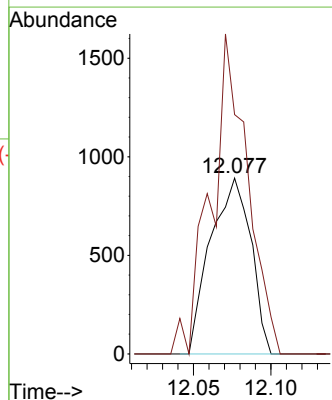
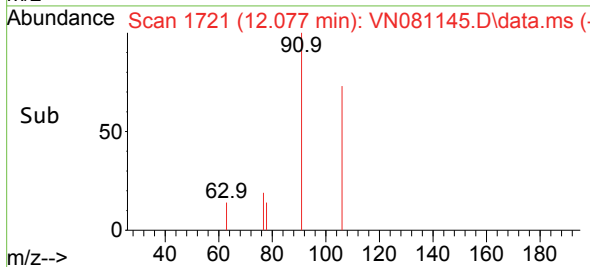
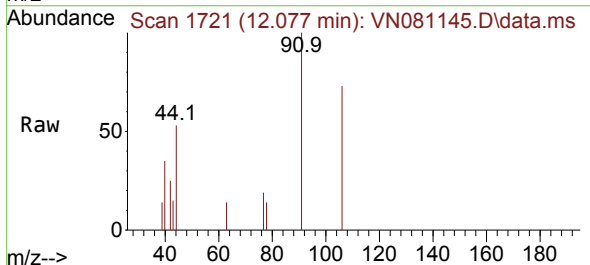


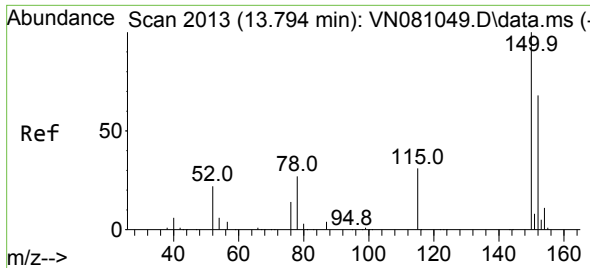
Tgt Ion:117 Resp: 462656
Ion Ratio Lower Upper
117 100
82 53.5 52.7 79.1
119 31.7 25.3 37.9



#68
m/p-Xylenes
Concen: 0.235 ug/l
RT: 12.077 min Scan# 1721
Delta R.T. 0.006 min
Lab File: VN081145.D
Acq: 22 Feb 2024 19:11

Tgt Ion:106 Resp: 1613
Ion Ratio Lower Upper
106 100
91 165.1 169.0 253.6#

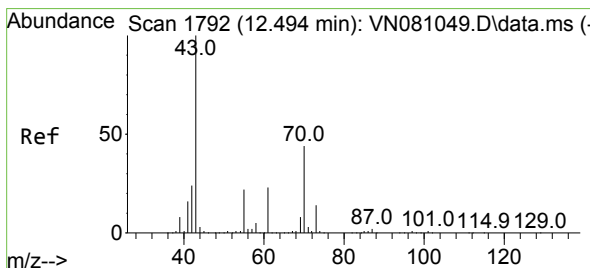
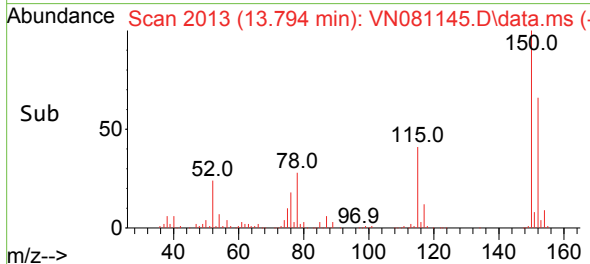
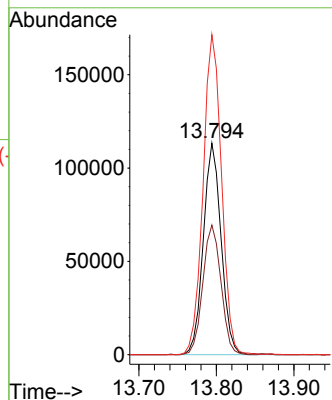
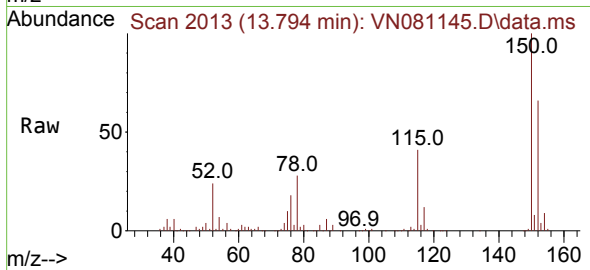




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: VN081145.D
 Acq: 22 Feb 2024 19:11

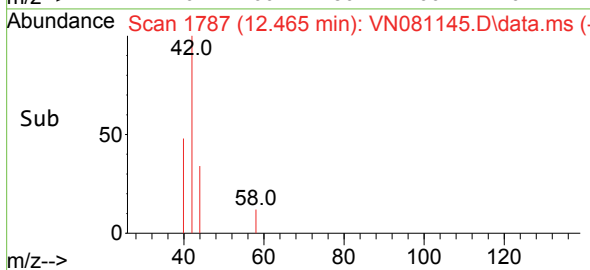
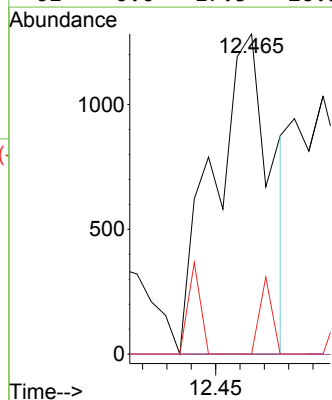
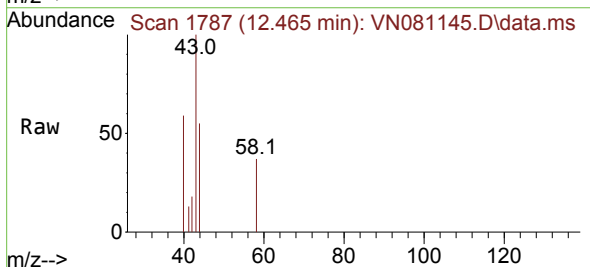
Instrument :
 MSVOA_N
 ClientSampleId :

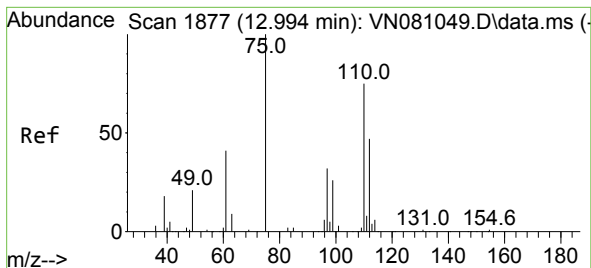
Tgt Ion:152 Resp: 180850
 Ion Ratio Lower Upper
 152 100
 115 62.2 32.3 96.8
 150 156.5 0.0 339.8



#74
 N-ethyl acetate
 Concen: 0.317 ug/l
 RT: 12.465 min Scan# 1787
 Delta R.T. -0.029 min
 Lab File: VN081145.D
 Acq: 22 Feb 2024 19:11

Tgt Ion: 43 Resp: 2122
 Ion Ratio Lower Upper
 43 100
 70 0.0 30.1 45.1#
 55 5.1 17.0 25.4#
 61 0.0 17.5 26.3#





#76

1,2,3-Trichloropropane

Concen: 24.302 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN081145.D

Acq: 22 Feb 2024 19:11

Instrument :

MSVOA_N

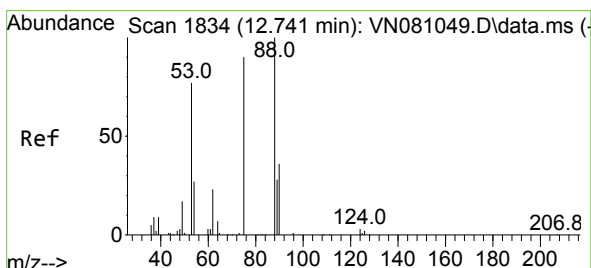
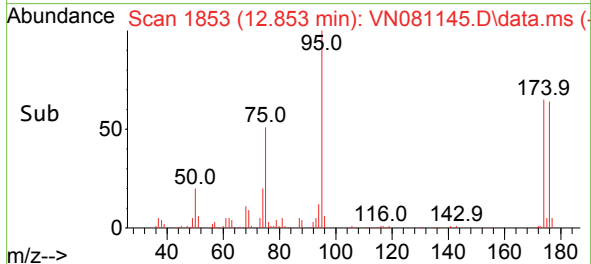
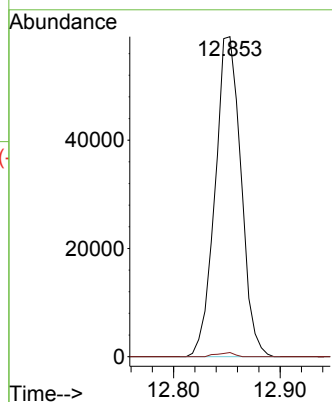
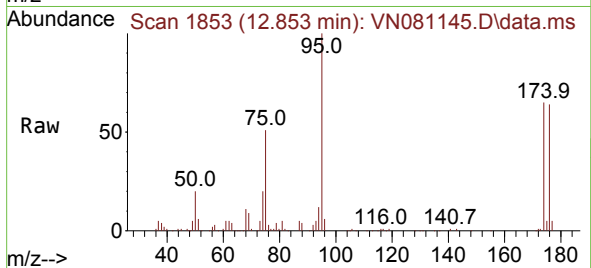
ClientSampleId :

Tgt Ion: 75 Resp: 99858

Ion Ratio Lower Upper

75 100

77 0.9 91.0 272.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 62.552 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN081145.D

Acq: 22 Feb 2024 19:11

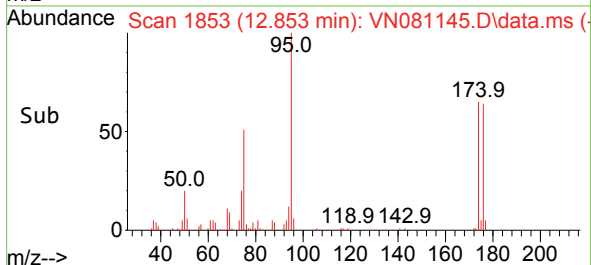
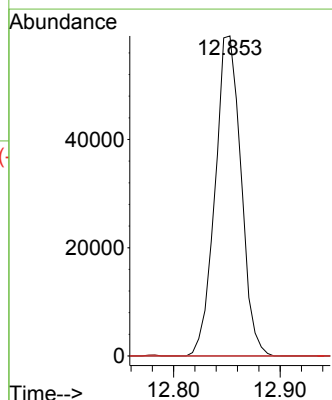
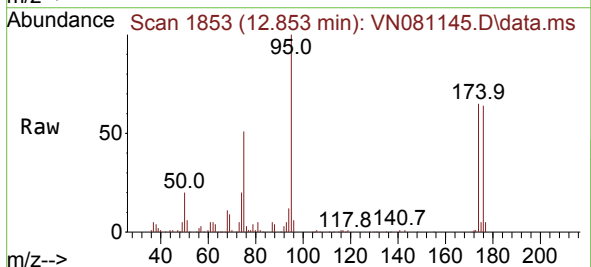
Tgt Ion: 75 Resp: 99858

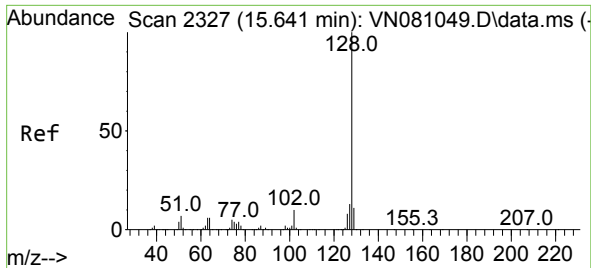
Ion Ratio Lower Upper

75 100

53 0.0 71.4 107.2#

89 0.0 33.4 50.0#





#95
Naphthalene
Concen: 0.208 ug/l
RT: 15.641 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN081145.D
Acq: 22 Feb 2024 19:11

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 2732
Ion Ratio Lower Upper
128 100
127 23.9 10.0 15.0#
129 2.4 8.7 13.1#

