

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061623\
 Data File : VN078261.D
 Acq On : 16 Jun 2023 15:41
 Operator : JC\MD
 Sample : 03229-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 17 02:24:39 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 07 05:05:00 2023
 Response via : Initial Calibration

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

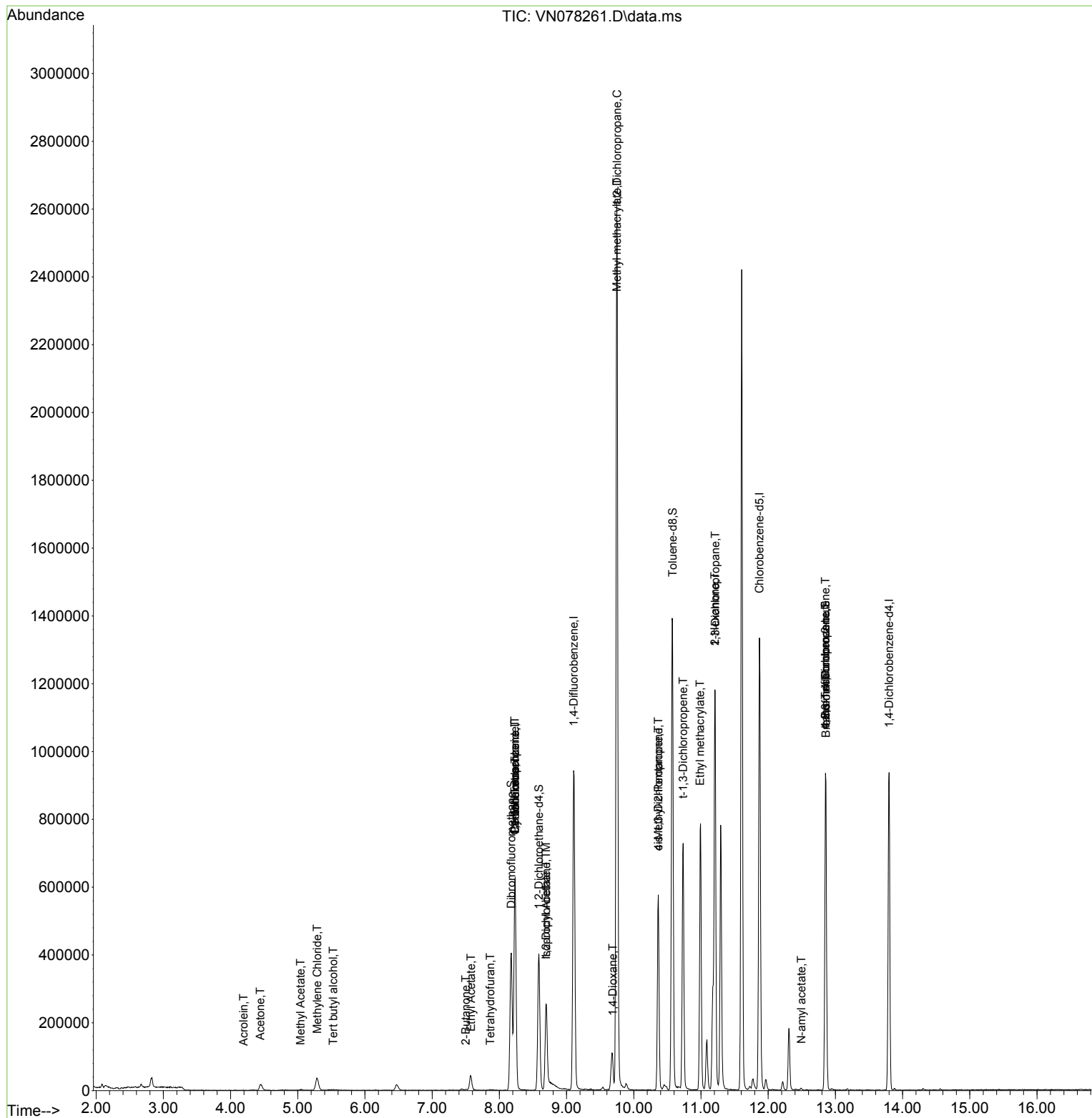
Internal Standards						
1) Pentafluorobenzene	8.235	168	446243	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	844423	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	797860	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	251710	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	329669	55.409	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.820%			
35) Dibromofluoromethane	8.177	113	289846	54.287	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.580%			
50) Toluene-d8	10.577	98	1015163	49.320	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.640%			
62) 4-Bromofluorobenzene	12.853	95	329870	51.552	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 103.100%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	1268	Below Cal	#	70
11) Tert butyl alcohol	5.530	59	221	0.269	ug/l #	72
13) Acrolein	4.195	56	238	0.263	ug/l	93
16) Acetone	4.442	43	34556	20.178	ug/l	91
18) Methyl Acetate	5.042	43	2040	0.259	ug/l #	42
20) Methylene Chloride	5.289	84	28637	5.060	ug/l #	85
25) 2-Butanone	7.500	43	2926	1.111	ug/l #	59
29) Tetrahydrofuran	7.865	42	1140	0.648	ug/l #	44
31) Cyclohexane	8.235	56	11066	1.450	ug/l #	49
36) 1,1-Dichloropropene	8.230	75	39128	5.109	ug/l #	48
37) Ethyl Acetate	7.577	43	65207	10.899	ug/l #	93
38) Carbon Tetrachloride	8.230	117	50610	6.259	ug/l #	16
42) 1,2-Dichloroethane	8.694	62	2055	0.262	ug/l #	73
43) Isopropyl Acetate	8.694	43	296660	25.928	ug/l #	81
45) 1,2-Dichloropropane	9.753	63	3283	0.577	ug/l #	45
48) Methyl methacrylate	9.747	41	233840	48.700	ug/l #	29
49) 1,4-Dioxane	9.688	88	54	0.535	ug/l #	1
51) 4-Methyl-2-Pentanone	10.365	43	204472	33.937	ug/l #	40
53) t-1,3-Dichloropropene	10.735	75	2099	0.259	ug/l #	47
54) cis-1,3-Dichloropropene	10.365	75	103204	11.518	ug/l #	69
56) Ethyl methacrylate	10.988	69	3056	0.384	ug/l #	1
57) 1,3-Dichloropropane	11.212	76	13267	1.439	ug/l #	42
59) 2-Hexanone	11.206	43	156973	37.417	ug/l #	48
71) Bromoform	12.859	173	3107	0.766	ug/l #	1
74) N-amyl acetate	12.494	43	2457	0.313	ug/l #	38
75) 1,1,2,2-Tetrachloroethane	12.941	83	84	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.853	75	180063	30.260	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	180063	92.968	ug/l #	15

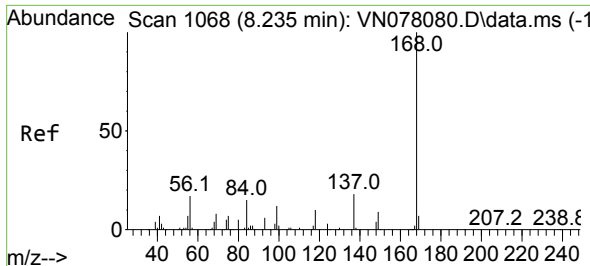
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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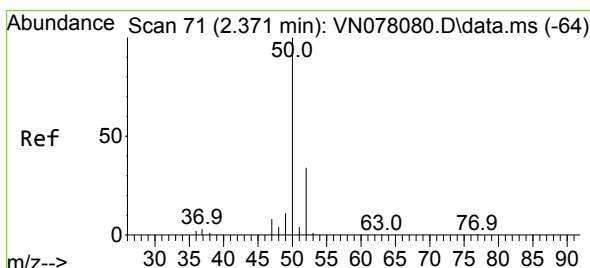
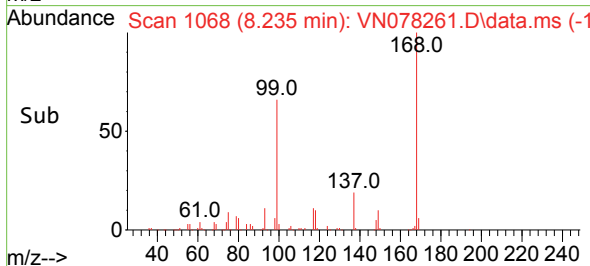
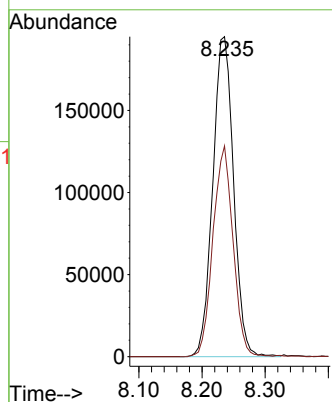
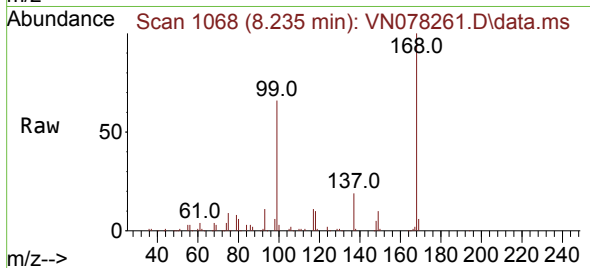




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. 0.000 min
Lab File: VN078261.D
Acq: 16 Jun 2023 15:41

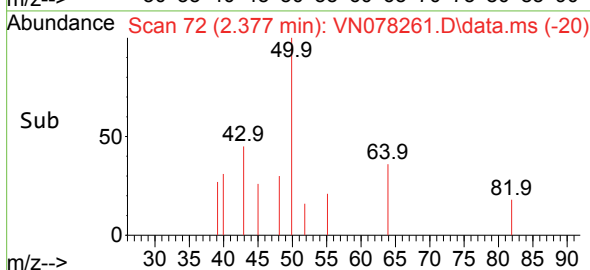
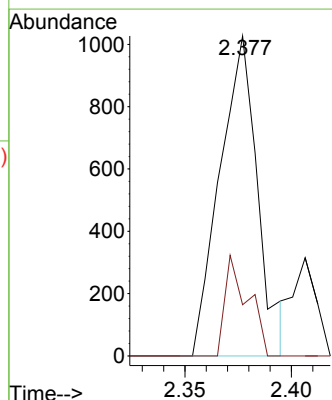
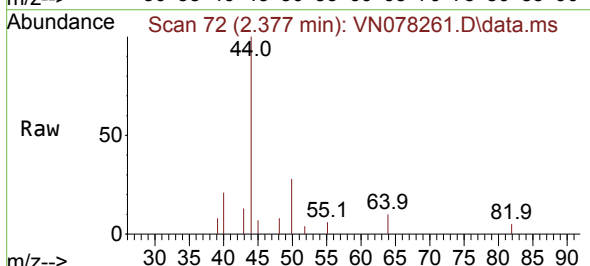
Instrument :
MSVOA_N
ClientSampleId :

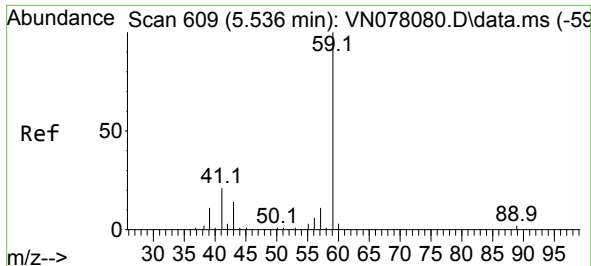
Tgt Ion:168 Resp: 446243
Ion Ratio Lower Upper
168 100
99 65.9 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.377 min Scan# 72
Delta R.T. 0.006 min
Lab File: VN078261.D
Acq: 16 Jun 2023 15:41

Tgt Ion: 50 Resp: 1268
Ion Ratio Lower Upper
50 100
52 16.0 26.5 39.7#

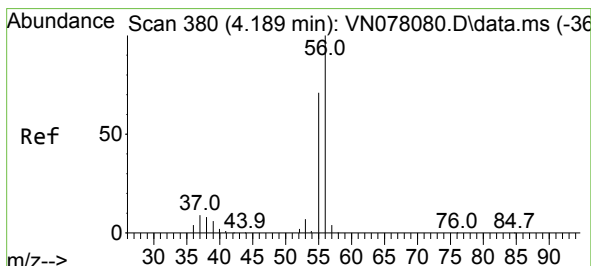
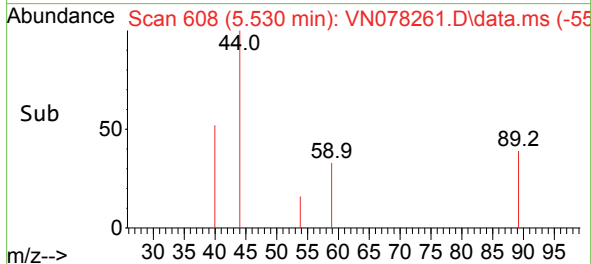
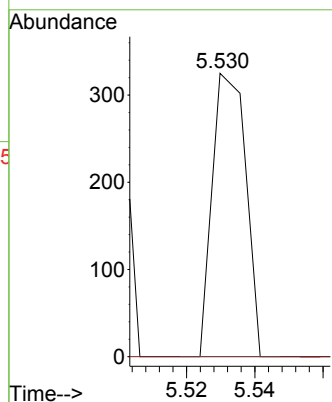
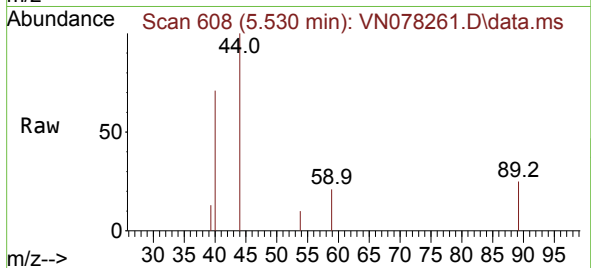




#11
Tert butyl alcohol
Concen: 0.269 ug/l
RT: 5.530 min Scan# 609
Delta R.T. -0.006 min
Lab File: VN078261.D
Acq: 16 Jun 2023 15:41

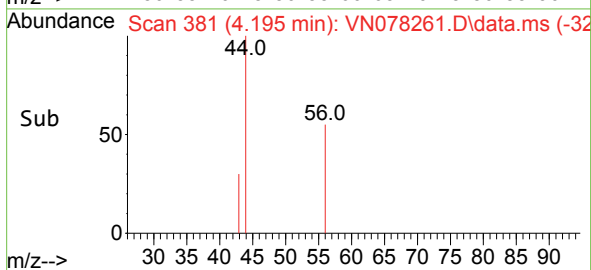
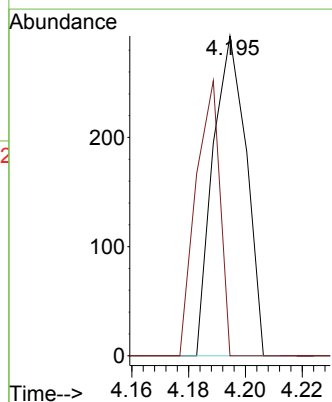
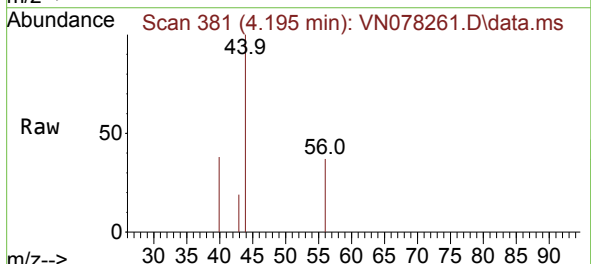
Instrument :
MSVOA_N
ClientSampleId :

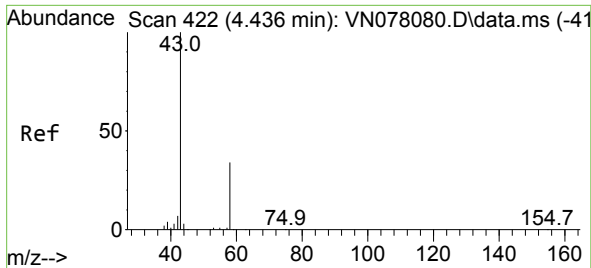
Tgt Ion: 59 Resp: 221
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 0.263 ug/l
RT: 4.195 min Scan# 381
Delta R.T. 0.006 min
Lab File: VN078261.D
Acq: 16 Jun 2023 15:41

Tgt Ion: 56 Resp: 238
Ion Ratio Lower Upper
56 100
55 62.2 54.5 81.7

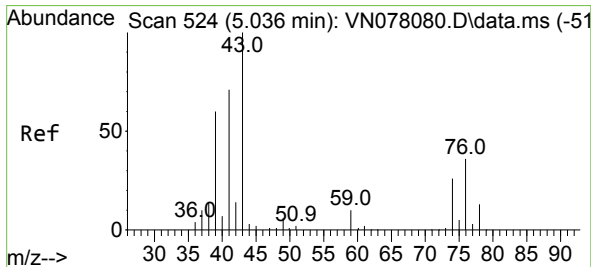
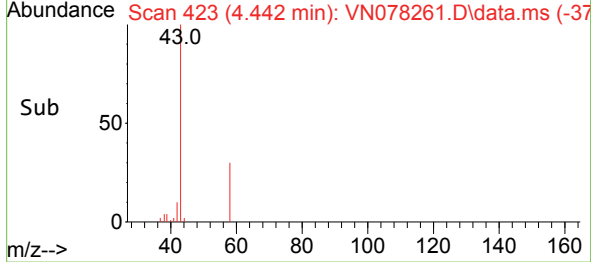
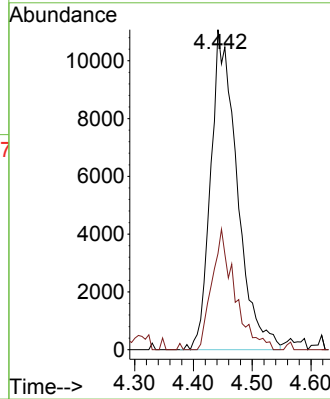
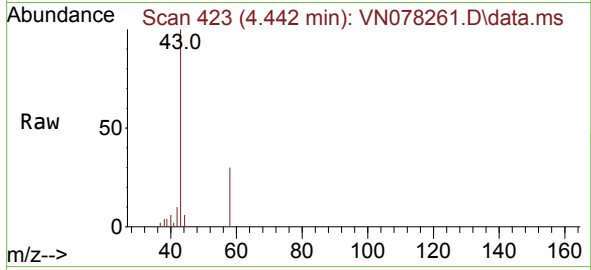




#16
Acetone
Concen: 20.178 ug/l
RT: 4.442 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN078261.D
Acq: 16 Jun 2023 15:41

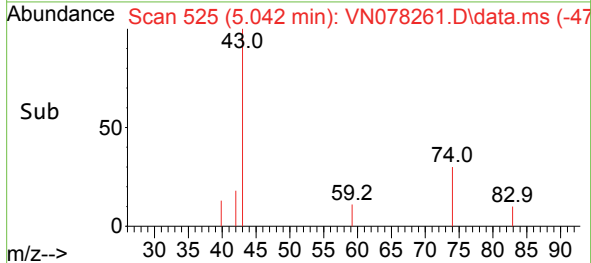
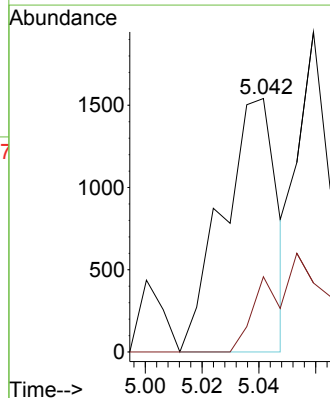
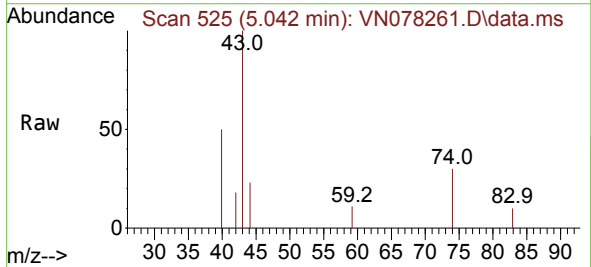
Instrument :
MSVOA_N
ClientSampleId :

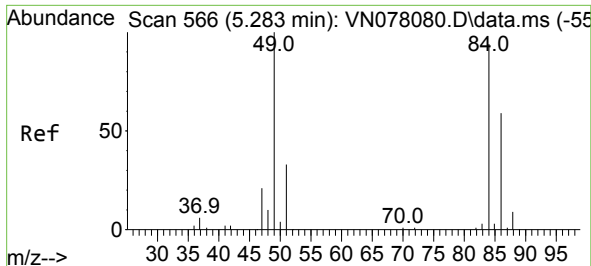
Tgt Ion: 43 Resp: 34556
Ion Ratio Lower Upper
43 100
58 30.0 28.0 42.0



#18
Methyl Acetate
Concen: 0.259 ug/l
RT: 5.042 min Scan# 525
Delta R.T. 0.006 min
Lab File: VN078261.D
Acq: 16 Jun 2023 15:41

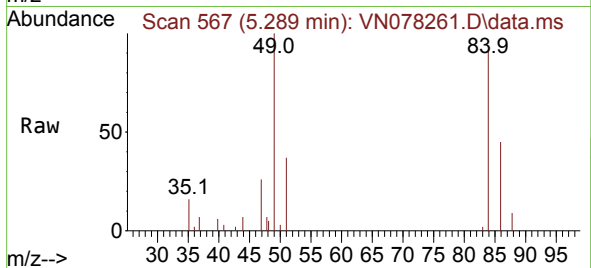
Tgt Ion: 43 Resp: 2040
Ion Ratio Lower Upper
43 100
74 0.0 26.2 39.4#



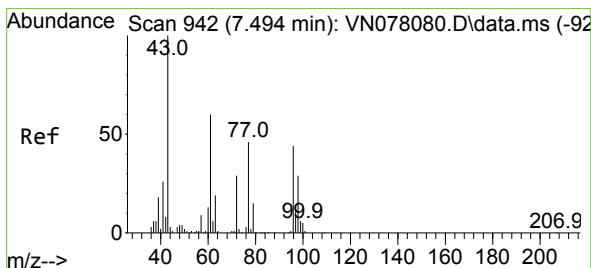
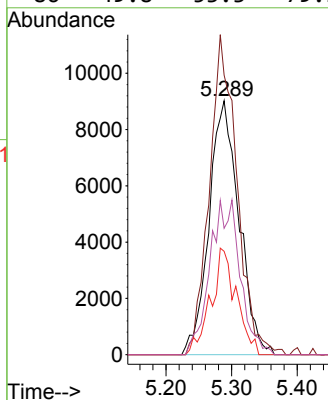
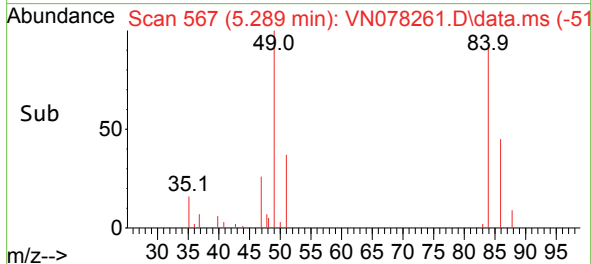


#20
Methylene Chloride
Concen: 5.060 ug/l
RT: 5.289 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN078261.D
Acq: 16 Jun 2023 15:41

Instrument :
MSVOA_N
ClientSampleId :

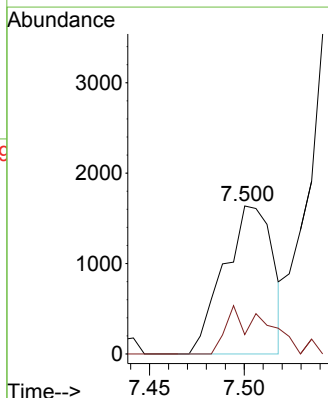
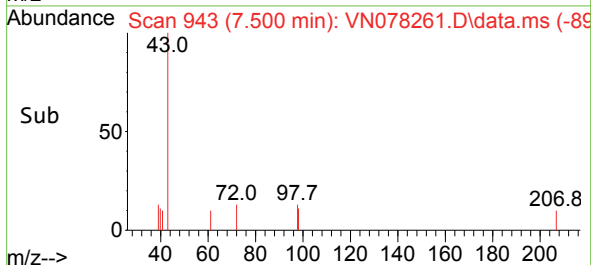
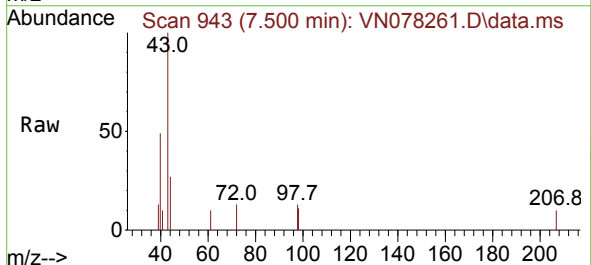


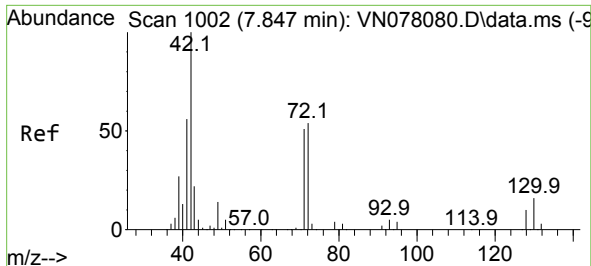
Tgt Ion: 84 Resp: 28637
Ion Ratio Lower Upper
84 100
49 110.1 79.7 119.5
51 40.7 25.2 37.8#
86 49.8 53.3 79.9#



#25
2-Butanone
Concen: 1.111 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN078261.D
Acq: 16 Jun 2023 15:41

Tgt Ion: 43 Resp: 2926
Ion Ratio Lower Upper
43 100
72 13.1 30.2 45.2#

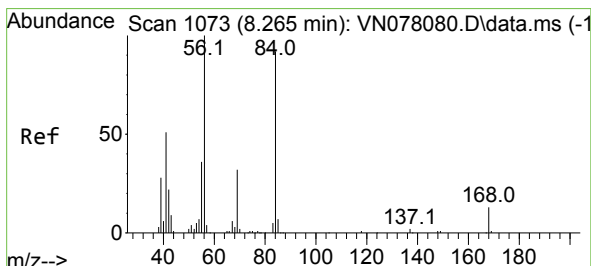
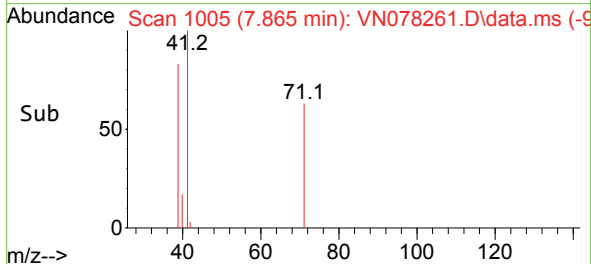
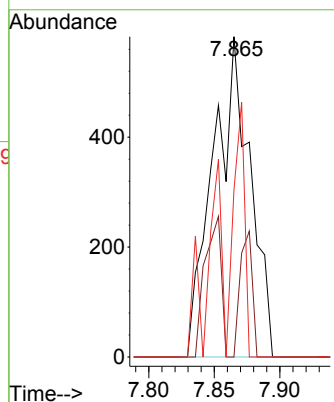
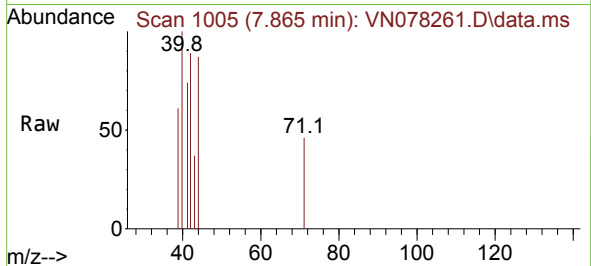




#29
Tetrahydrofuran
Concen: 0.648 ug/l
RT: 7.865 min Scan# 1068
Delta R.T. 0.018 min
Lab File: VN078261.D
Acq: 16 Jun 2023 15:41

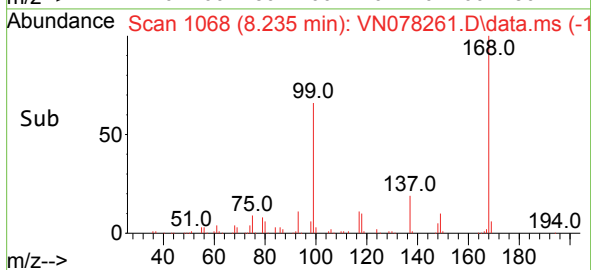
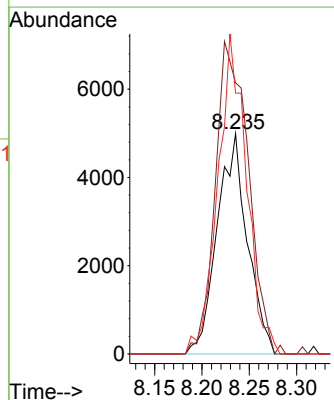
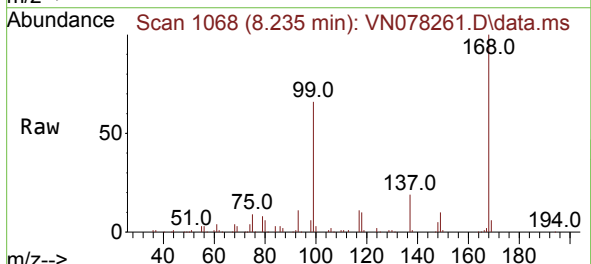
Instrument :
MSVOA_N
ClientSampleId :

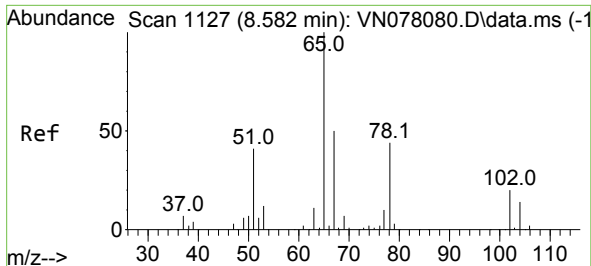
Tgt Ion: 42 Resp: 1140
Ion Ratio Lower Upper
42 100
72 13.0 49.8 74.6#
71 23.8 47.4 71.2#



#31
Cyclohexane
Concen: 1.450 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.029 min
Lab File: VN078261.D
Acq: 16 Jun 2023 15:41

Tgt Ion: 56 Resp: 11066
Ion Ratio Lower Upper
56 100
69 123.1 26.8 40.2#
84 118.4 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 55.409 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN078261.D

Acq: 16 Jun 2023 15:41

Instrument :

MSVOA_N

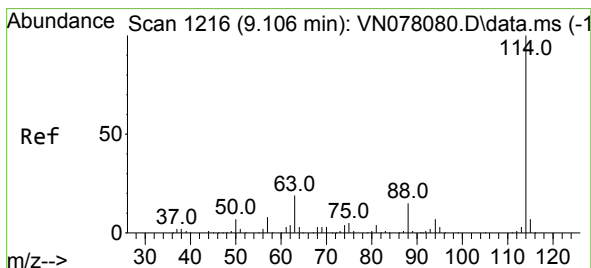
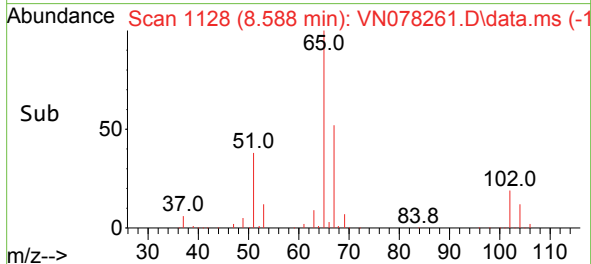
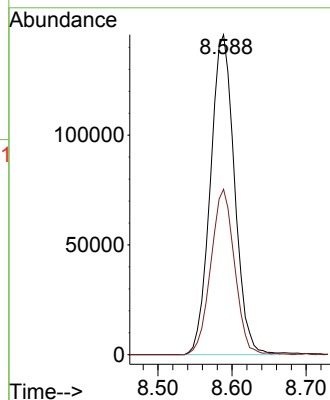
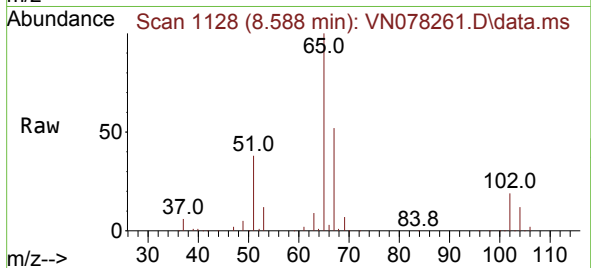
ClientSampleId :

Tgt Ion: 65 Resp: 329669

Ion Ratio Lower Upper

65 100

67 51.1 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN078261.D

Acq: 16 Jun 2023 15:41

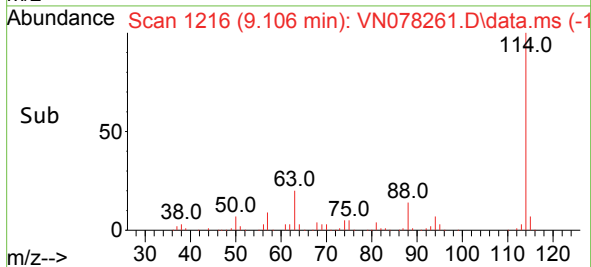
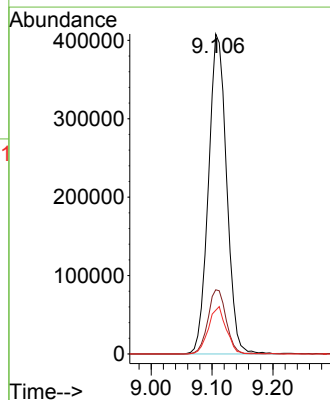
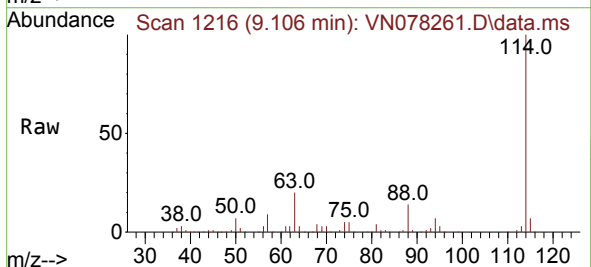
Tgt Ion: 114 Resp: 844423

Ion Ratio Lower Upper

114 100

63 20.1 0.0 36.4

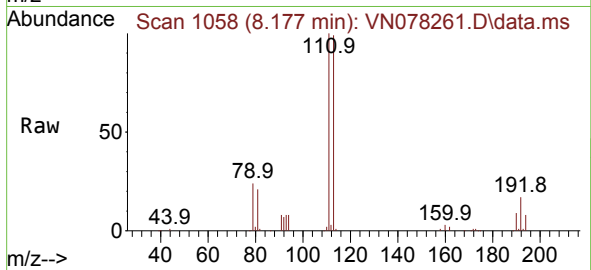
88 13.7 0.0 30.6



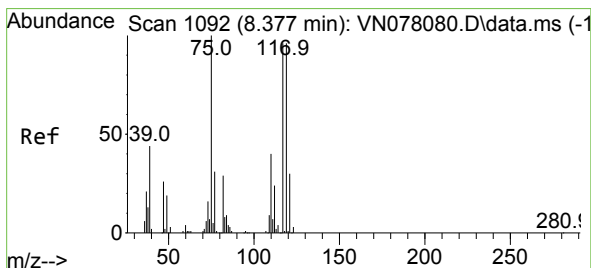
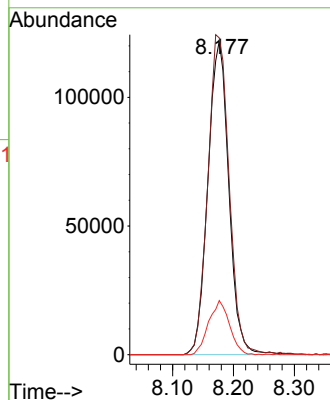
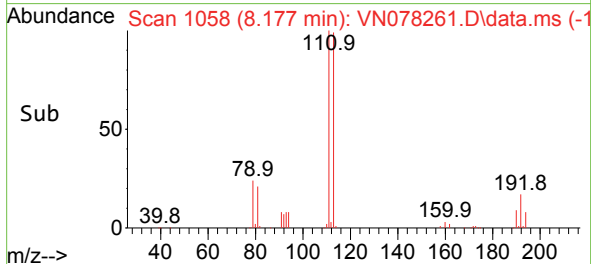


#35
Dibromofluoromethane
Concen: 54.287 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VN078261.D
Acq: 16 Jun 2023 15:41

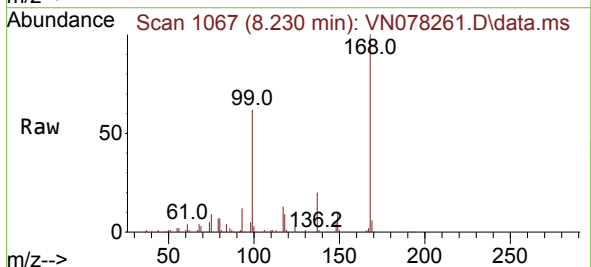
Instrument :
MSVOA_N
ClientSampleId :



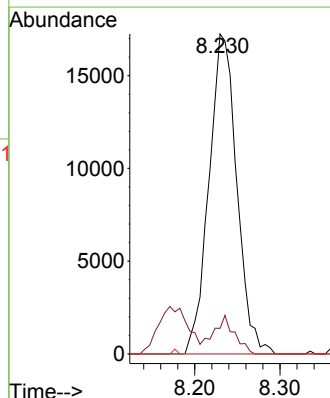
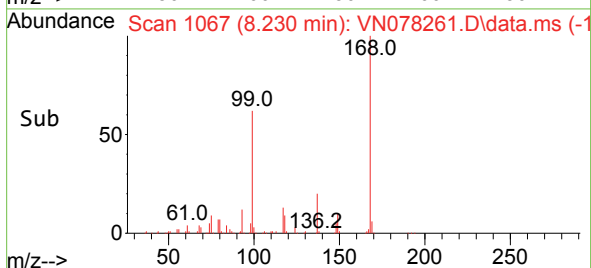
Tgt Ion:113 Resp: 289846
Ion Ratio Lower Upper
113 100
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192 17.3 12.7 19.1

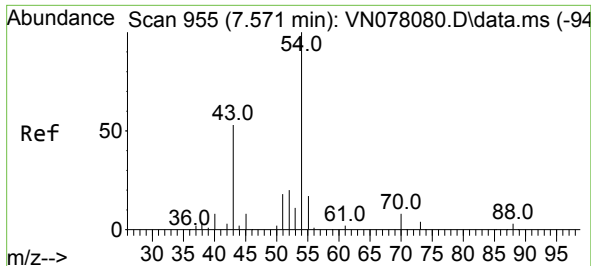


#36
1,1-Dichloropropene
Concen: 5.109 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN078261.D
Acq: 16 Jun 2023 15:41



Tgt Ion: 75 Resp: 39128
Ion Ratio Lower Upper
75 100
110 9.1 19.1 57.3#
77 0.0 25.0 37.4#

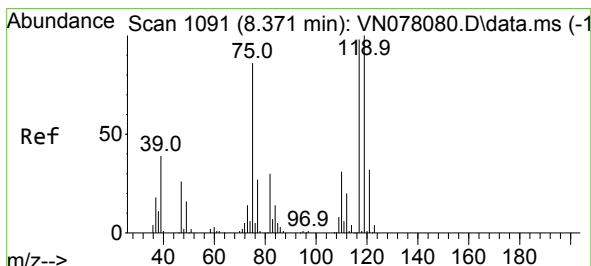
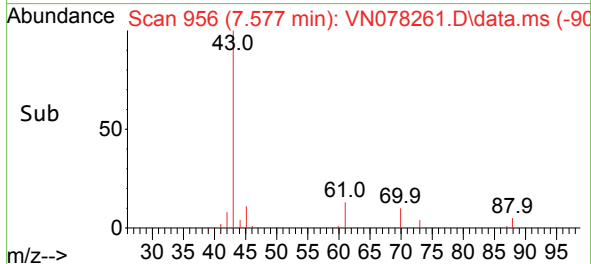
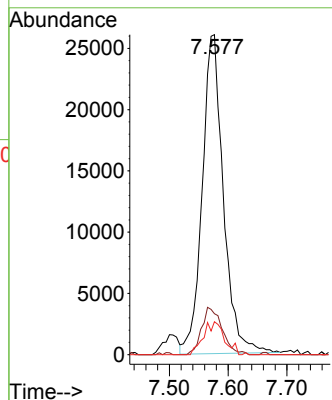
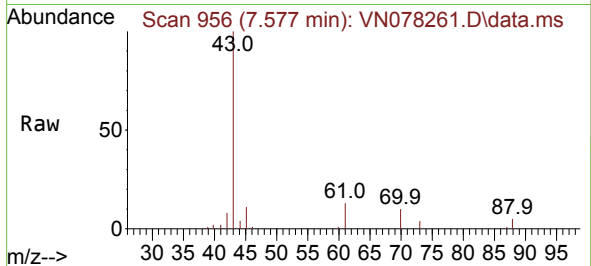




#37
Ethyl Acetate
Concen: 10.899 ug/l
RT: 7.577 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN078261.D
Acq: 16 Jun 2023 15:41

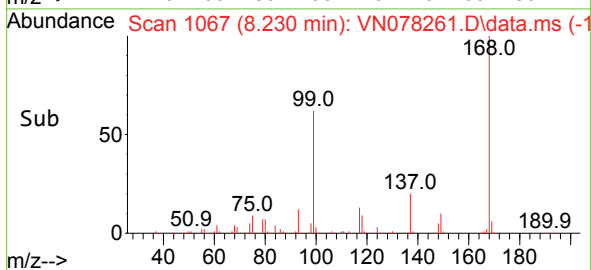
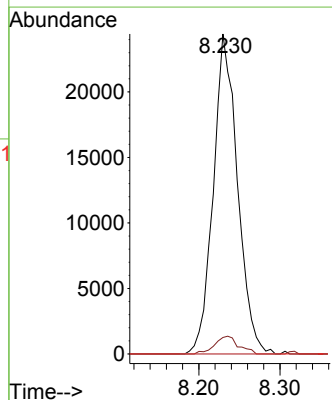
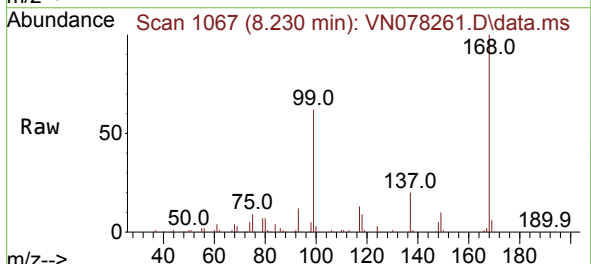
Instrument :
MSVOA_N
ClientSampleId :

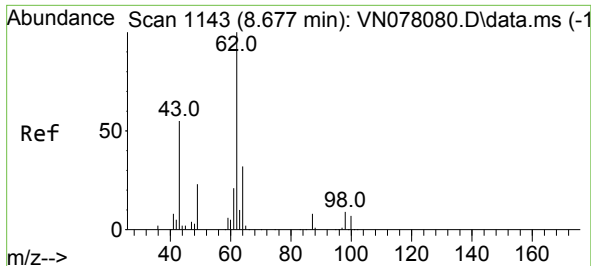
Tgt Ion: 43 Resp: 65207
Ion Ratio Lower Upper
43 100
61 14.4 13.2 19.8
70 10.2 11.3 16.9#



#38
Carbon Tetrachloride
Concen: 6.259 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN078261.D
Acq: 16 Jun 2023 15:41

Tgt Ion: 117 Resp: 50610
Ion Ratio Lower Upper
117 100
119 5.1 77.3 115.9#
121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.262 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.018 min

Lab File: VN078261.D

Acq: 16 Jun 2023 15:41

Instrument :

MSVOA_N

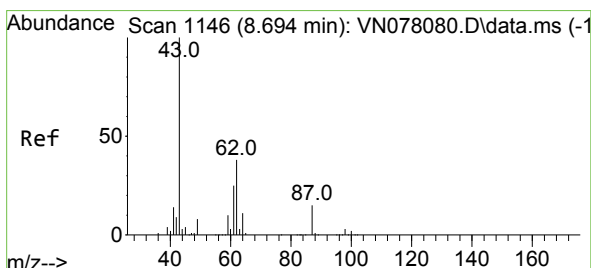
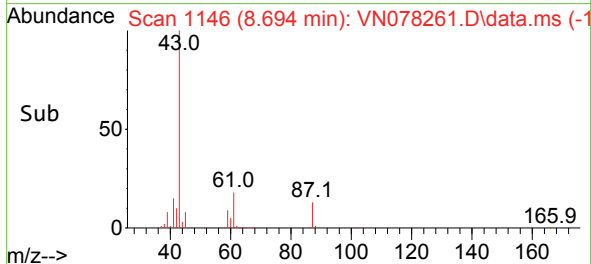
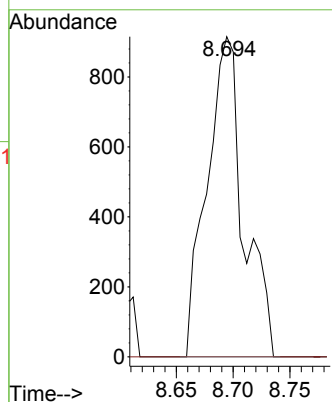
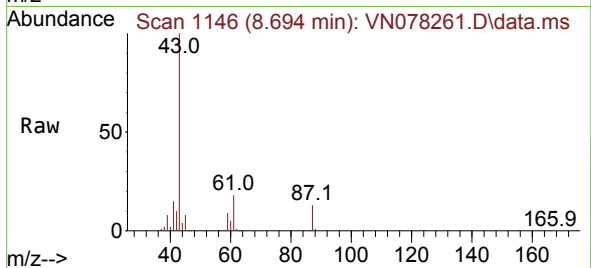
ClientSampleId :

Tgt Ion: 62 Resp: 2055

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 25.928 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN078261.D

Acq: 16 Jun 2023 15:41

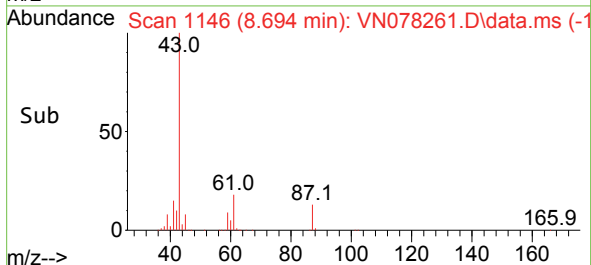
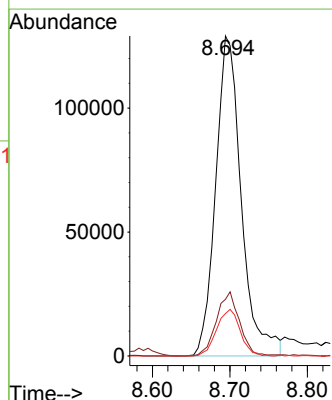
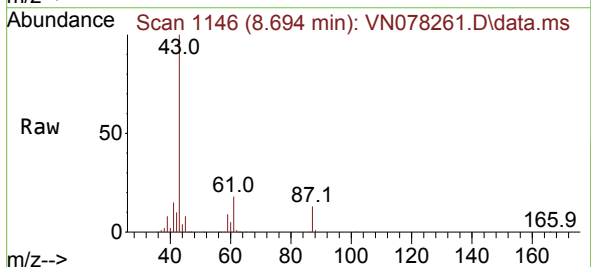
Tgt Ion: 43 Resp: 296660

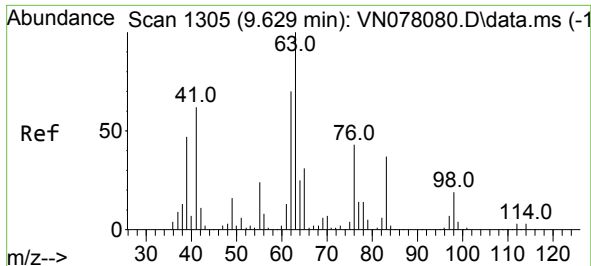
Ion Ratio Lower Upper

43 100

61 18.0 24.7 37.1#

87 13.4 14.6 21.8#

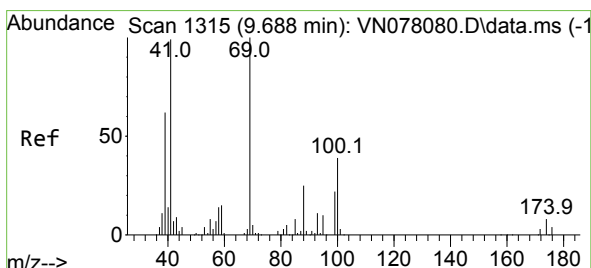
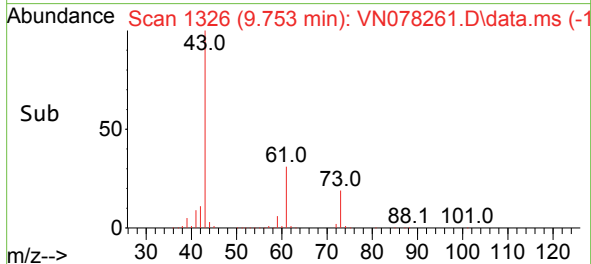
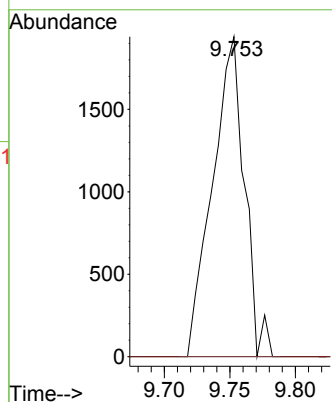
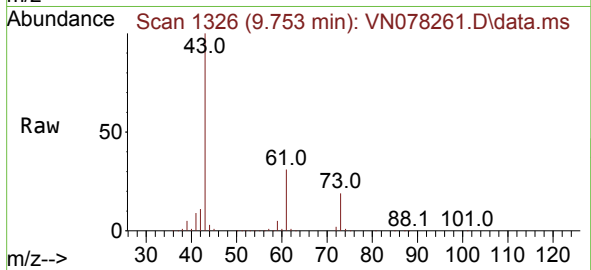




#45
1,2-Dichloropropane
Concen: 0.577 ug/l
RT: 9.753 min Scan# 11
Delta R.T. 0.124 min
Lab File: VN078261.D
Acq: 16 Jun 2023 15:41

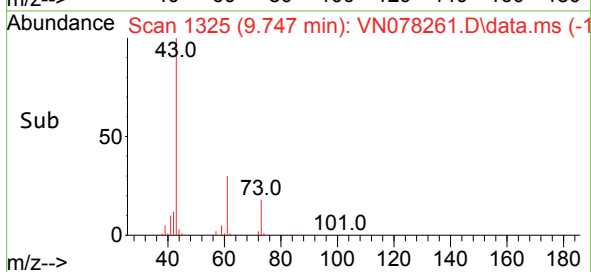
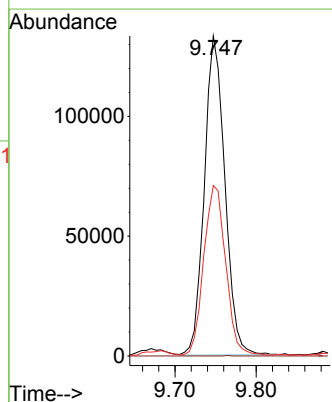
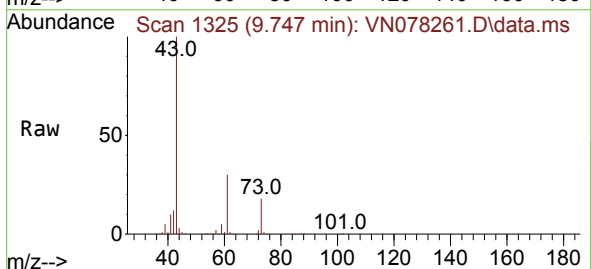
Instrument :
MSVOA_N
ClientSampleId :

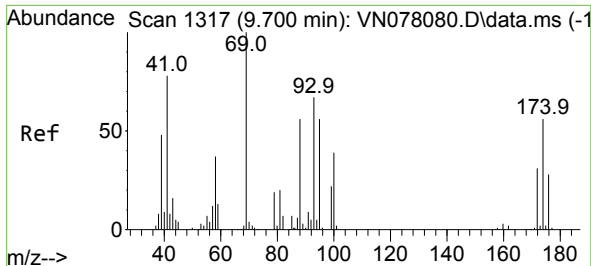
Tgt Ion: 63 Resp: 3283
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#



#48
Methyl methacrylate
Concen: 48.700 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.059 min
Lab File: VN078261.D
Acq: 16 Jun 2023 15:41

Tgt Ion: 41 Resp: 233840
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 56.6 54.6 81.8





#49

1,4-Dioxane

Concen: 0.535 ug/l

RT: 9.688 min Scan# 11

Delta R.T. -0.012 min

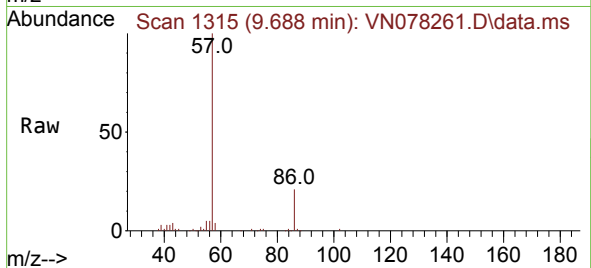
Lab File: VN078261.D

Acq: 16 Jun 2023 15:41

Instrument :

MSVOA_N

ClientSampleId :



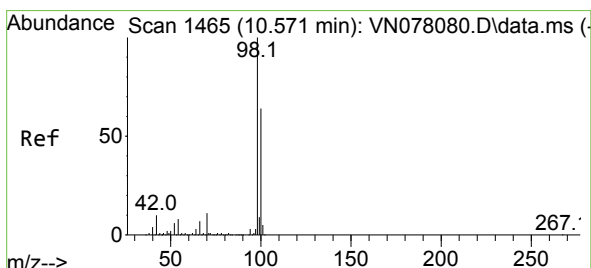
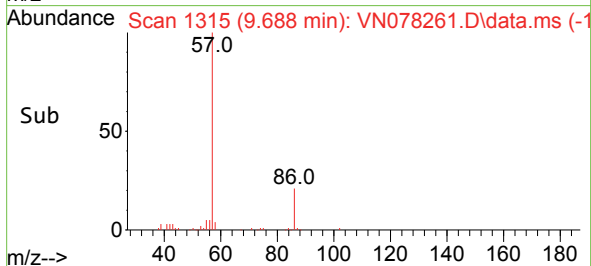
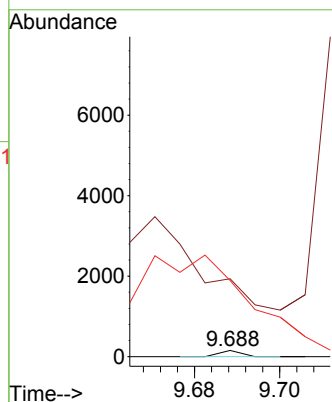
Tgt Ion: 88 Resp: 54

Ion Ratio Lower Upper

88 100

43 0.0 17.0 25.6#

58 10392.6 47.0 70.4#



#50

Toluene-d8

Concen: 49.320 ug/l

RT: 10.577 min Scan# 1466

Delta R.T. 0.006 min

Lab File: VN078261.D

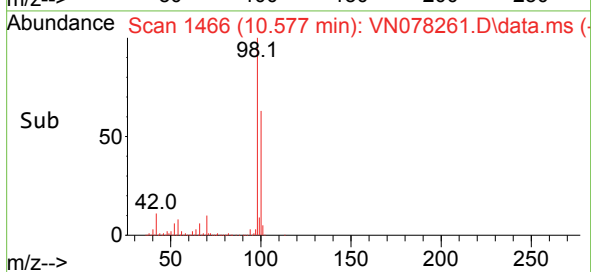
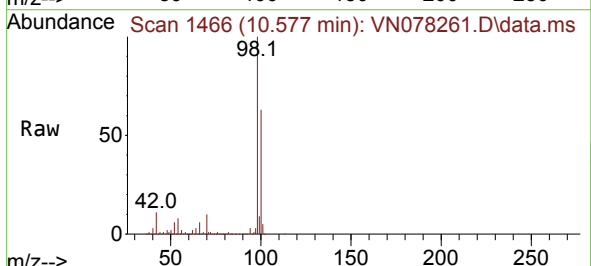
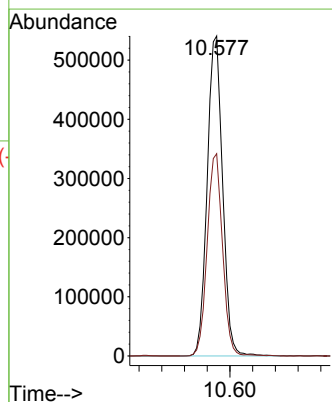
Acq: 16 Jun 2023 15:41

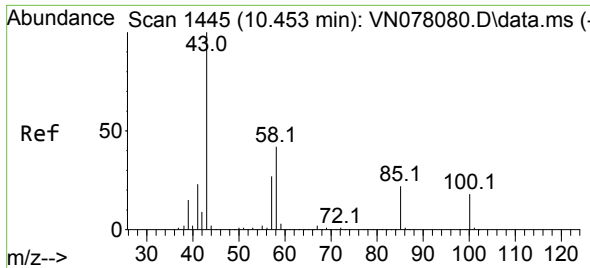
Tgt Ion: 98 Resp: 1015163

Ion Ratio Lower Upper

98 100

100 63.1 52.0 78.0

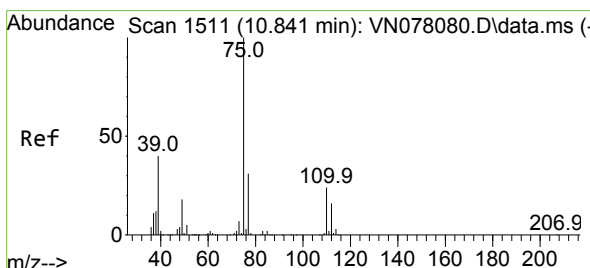
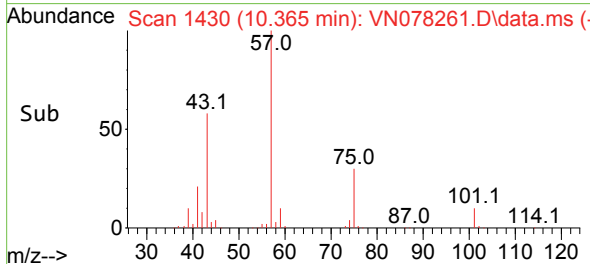
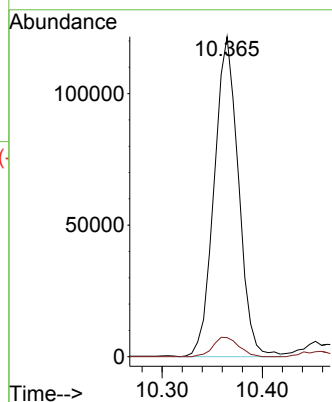
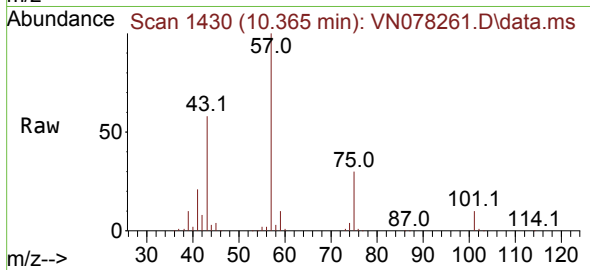




#51
4-Methyl-2-Pentanone
Concen: 33.937 ug/l
RT: 10.365 min Scan# 1445
Delta R.T. -0.088 min
Lab File: VN078261.D
Acq: 16 Jun 2023 15:41

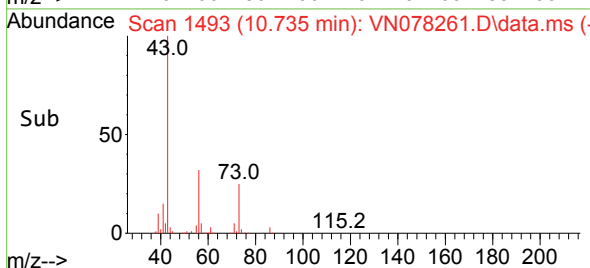
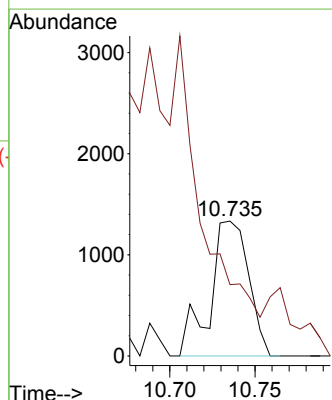
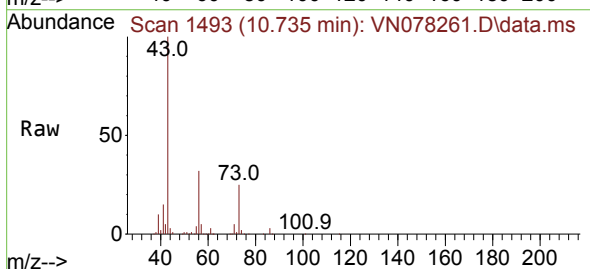
Instrument :
MSVOA_N
ClientSampleId :

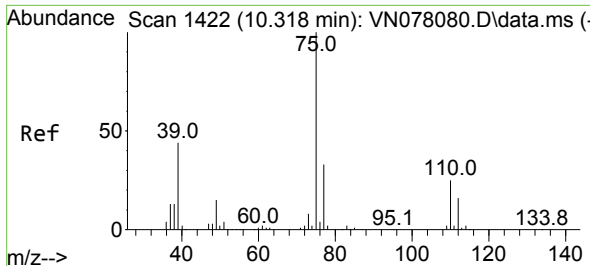
Tgt Ion: 43 Resp: 204472
Ion Ratio Lower Upper
43 100
58 6.5 36.6 54.8#



#53
t-1,3-Dichloropropene
Concen: 0.259 ug/l
RT: 10.735 min Scan# 1493
Delta R.T. -0.106 min
Lab File: VN078261.D
Acq: 16 Jun 2023 15:41

Tgt Ion: 75 Resp: 2099
Ion Ratio Lower Upper
75 100
77 2.3 25.4 38.0#

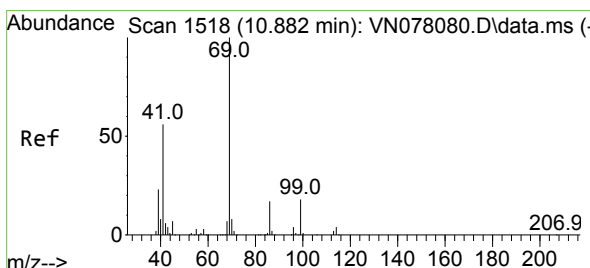
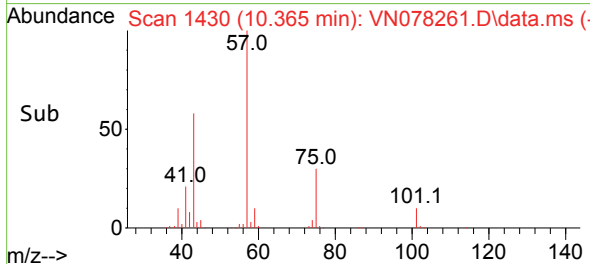
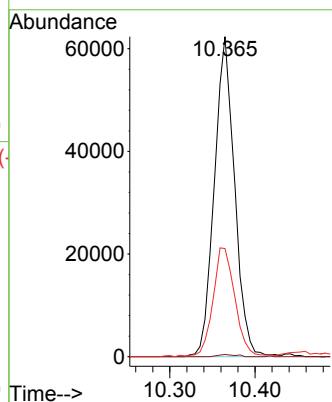
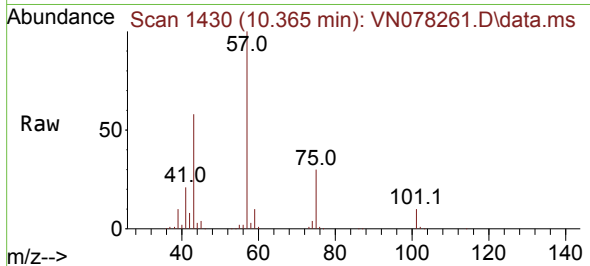




#54
 cis-1,3-Dichloropropene
 Concen: 11.518 ug/l
 RT: 10.365 min Scan# 14
 Delta R.T. 0.047 min
 Lab File: VN078261.D
 Acq: 16 Jun 2023 15:41

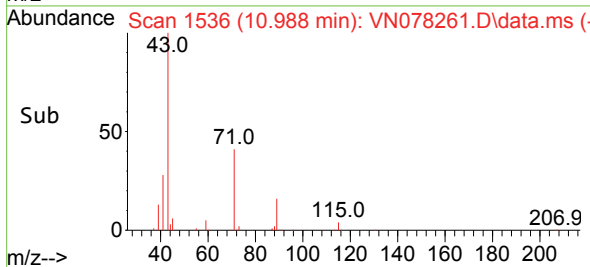
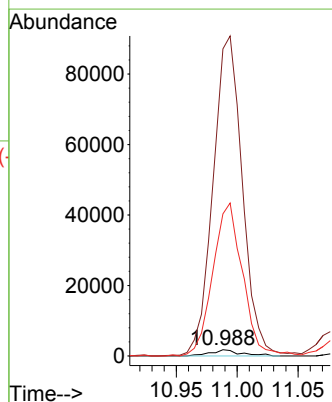
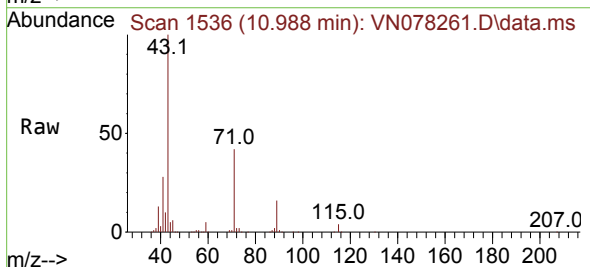
Instrument :
 MSVOA_N
 ClientSampleId :

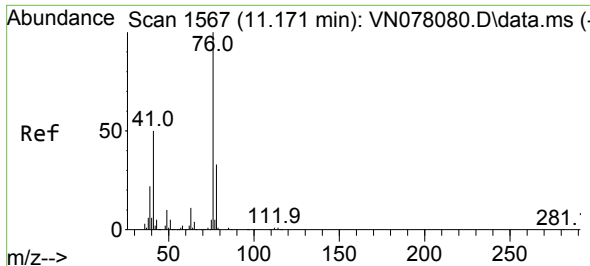
Tgt Ion: 75 Resp: 103204
 Ion Ratio Lower Upper
 75 100
 77 0.7 26.1 39.1#
 39 33.4 31.6 47.4



#56
 Ethyl methacrylate
 Concen: 0.384 ug/l
 RT: 10.988 min Scan# 1536
 Delta R.T. 0.106 min
 Lab File: VN078261.D
 Acq: 16 Jun 2023 15:41

Tgt Ion: 69 Resp: 3056
 Ion Ratio Lower Upper
 69 100
 41 4981.6 39.6 59.4#
 39 2420.2 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 1.439 ug/l

RT: 11.212 min Scan# 1574

Delta R.T. 0.041 min

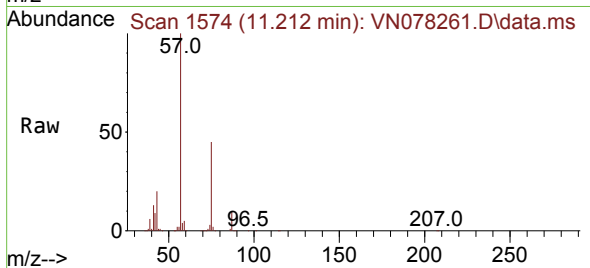
Lab File: VN078261.D

Acq: 16 Jun 2023 15:41

Instrument :

MSVOA_N

ClientSampleId :

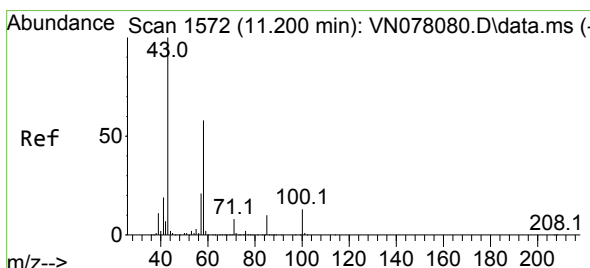
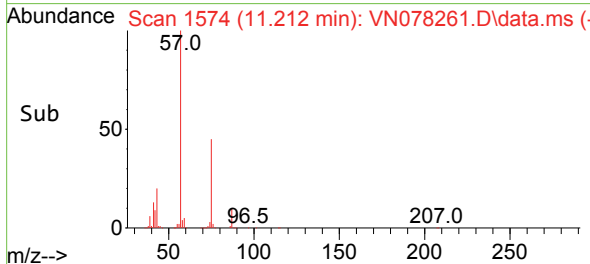
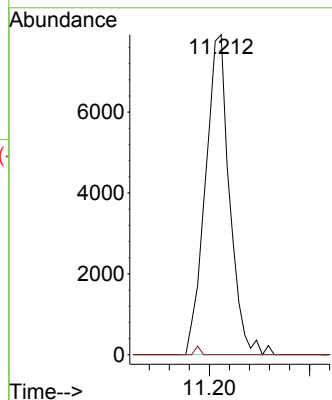


Tgt Ion: 76 Resp: 13267

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 37.417 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.006 min

Lab File: VN078261.D

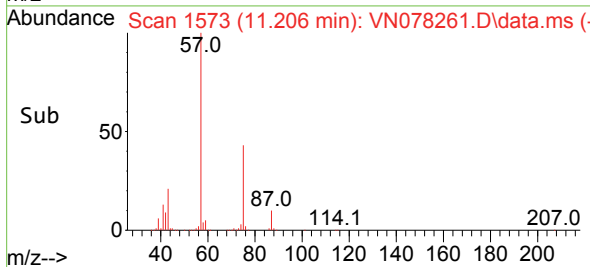
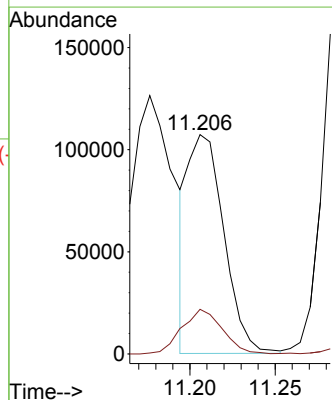
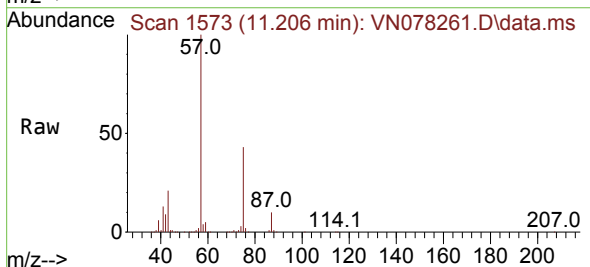
Acq: 16 Jun 2023 15:41

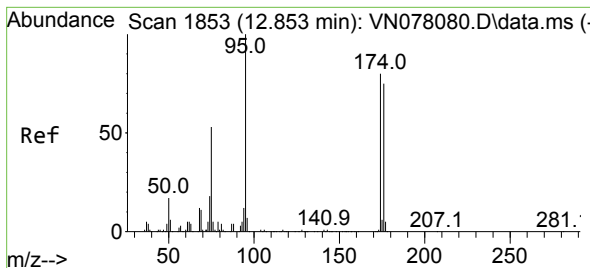
Tgt Ion: 43 Resp: 156973

Ion Ratio Lower Upper

43 100

58 23.1 31.7 95.1#

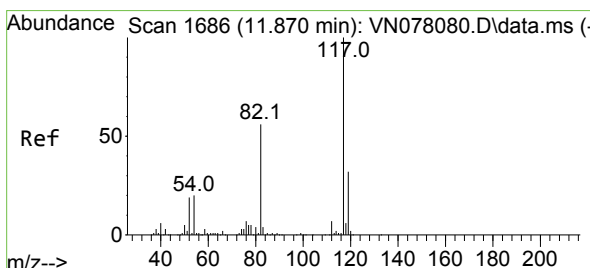
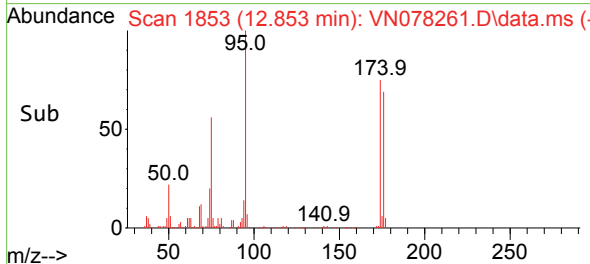
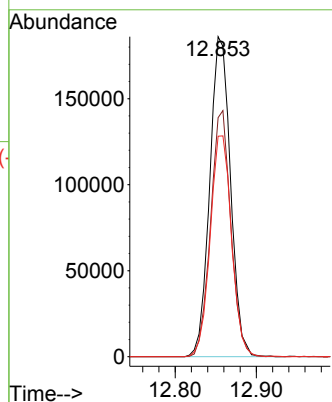
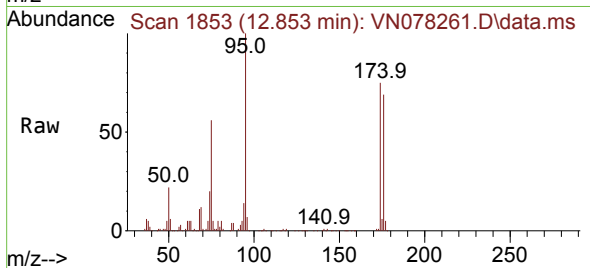




#62
4-Bromofluorobenzene
Concen: 51.552 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN078261.D
Acq: 16 Jun 2023 15:41

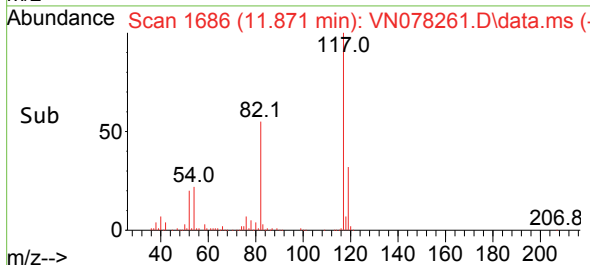
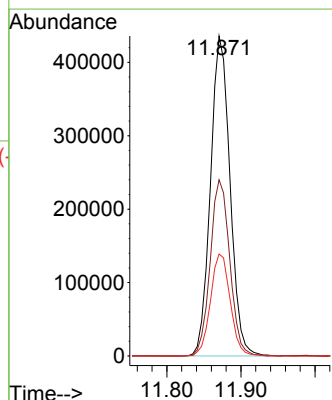
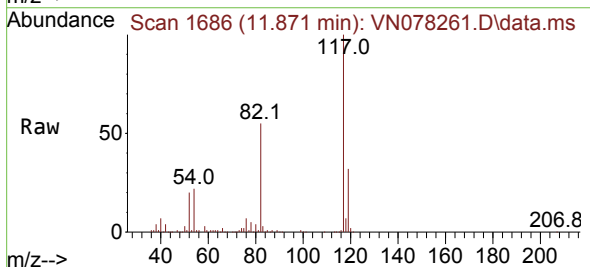
Instrument :
MSVOA_N
ClientSampleId :

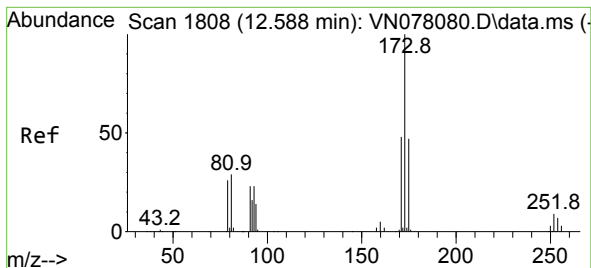
Tgt Ion: 95 Resp: 329870
Ion Ratio Lower Upper
95 100
174 75.3 0.0 143.8
176 70.9 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN078261.D
Acq: 16 Jun 2023 15:41

Tgt Ion: 117 Resp: 797860
Ion Ratio Lower Upper
117 100
82 55.0 44.0 66.0
119 31.8 25.6 38.4





#71

Bromoform

Concen: 0.766 ug/l

RT: 12.859 min Scan# 1854

Delta R.T. 0.271 min

Lab File: VN078261.D

Acq: 16 Jun 2023 15:41

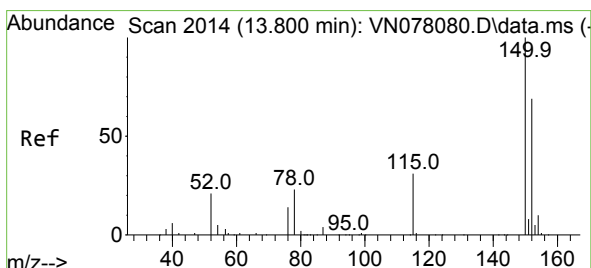
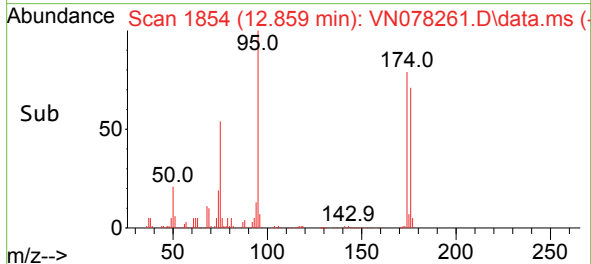
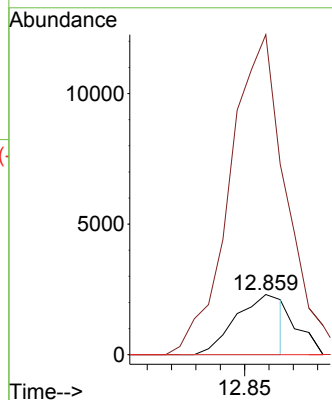
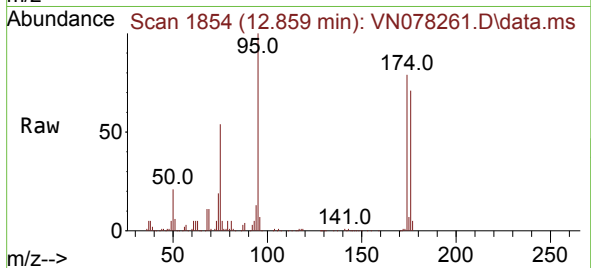
Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:173 Resp: 3107

Ion	Ratio	Lower	Upper
173	100		
175	543.5	24.3	73.0#
254	0.0	0.0	0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2014

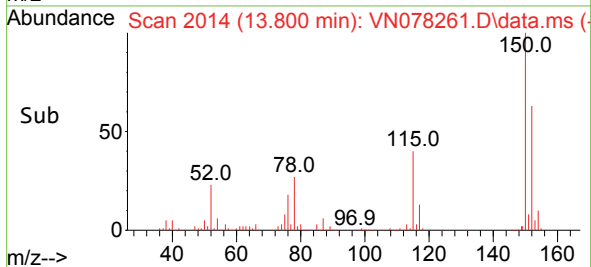
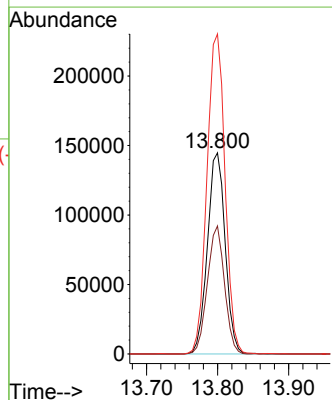
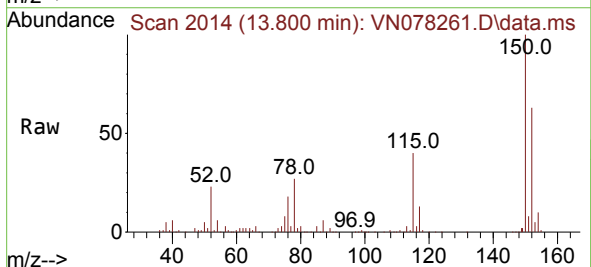
Delta R.T. 0.000 min

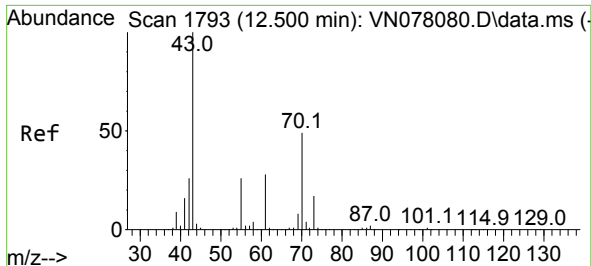
Lab File: VN078261.D

Acq: 16 Jun 2023 15:41

Tgt Ion:152 Resp: 251710

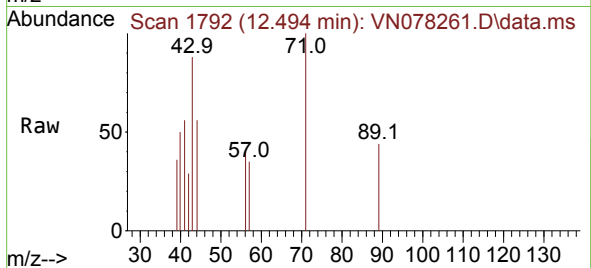
Ion	Ratio	Lower	Upper
152	100		
115	61.3	32.3	96.8
150	161.5	0.0	355.8



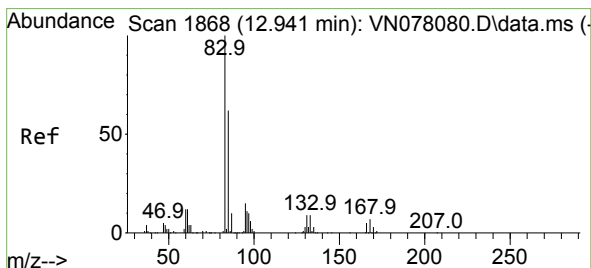
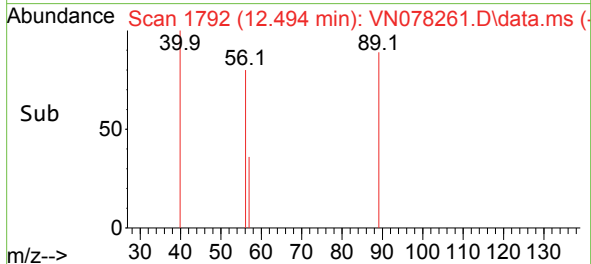
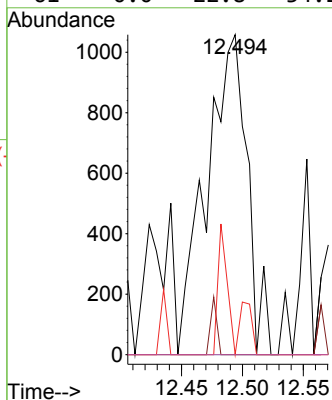


#74
N-amy1 acetate
Concen: 0.313 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.006 min
Lab File: VN078261.D
Acq: 16 Jun 2023 15:41

Instrument :
MSVOA_N
ClientSampleId :

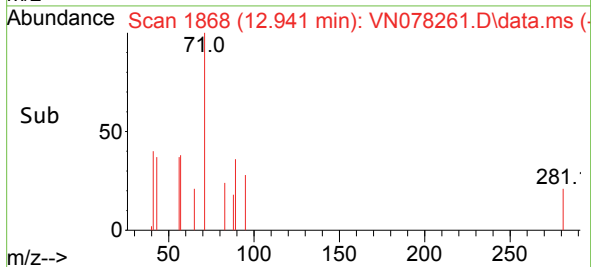
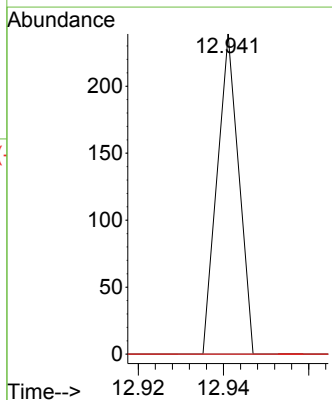
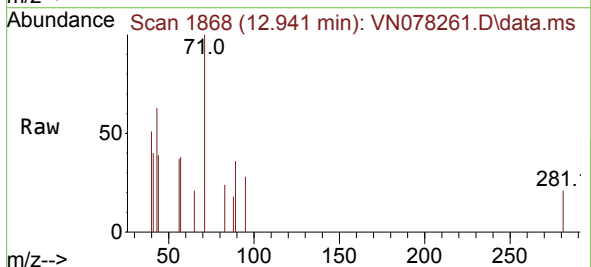


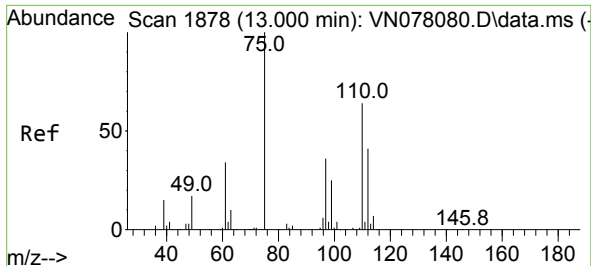
Tgt Ion:	43	Resp:	2457
Ion	Ratio	Lower	Upper
43	100		
70	0.0	43.4	65.2#
55	4.9	21.4	32.0#
61	0.0	22.8	34.2#



#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.941 min Scan# 1868
Delta R.T. 0.000 min
Lab File: VN078261.D
Acq: 16 Jun 2023 15:41

Tgt Ion:	83	Resp:	84
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.0	15.0#
85	0.0	31.9	95.7#

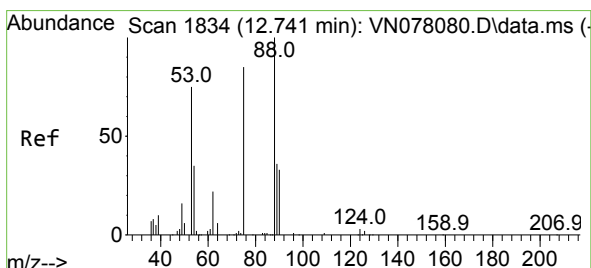
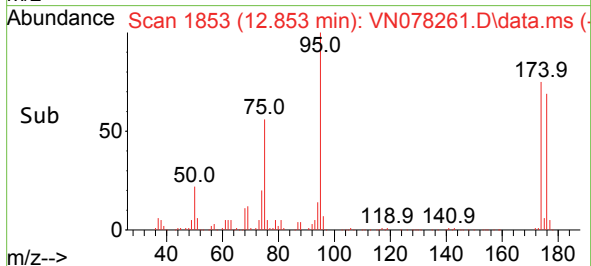
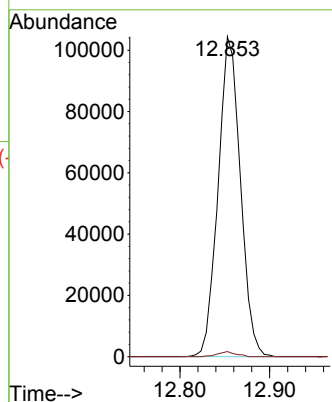
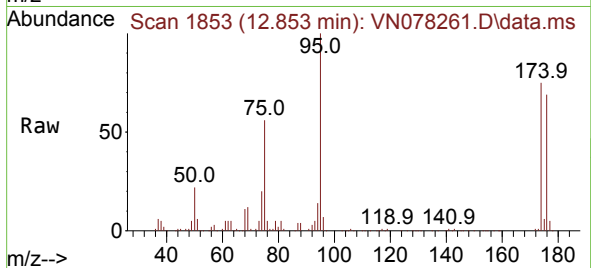




#76
1,2,3-Trichloropropane
Concen: 30.260 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078261.D
Acq: 16 Jun 2023 15:41

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 180063
Ion Ratio Lower Upper
75 100
77 1.3 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 92.968 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078261.D
Acq: 16 Jun 2023 15:41

Tgt Ion: 75 Resp: 180063
Ion Ratio Lower Upper
75 100
53 0.2 67.4 101.2#
89 0.0 38.8 58.2#

