

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082223\
 Data File : VN078998.D
 Acq On : 22 Aug 2023 16:48
 Operator : JC\MD
 Sample : 04090-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 23 03:05:15 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081523W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 16 02:42:02 2023
 Response via : Initial Calibration

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

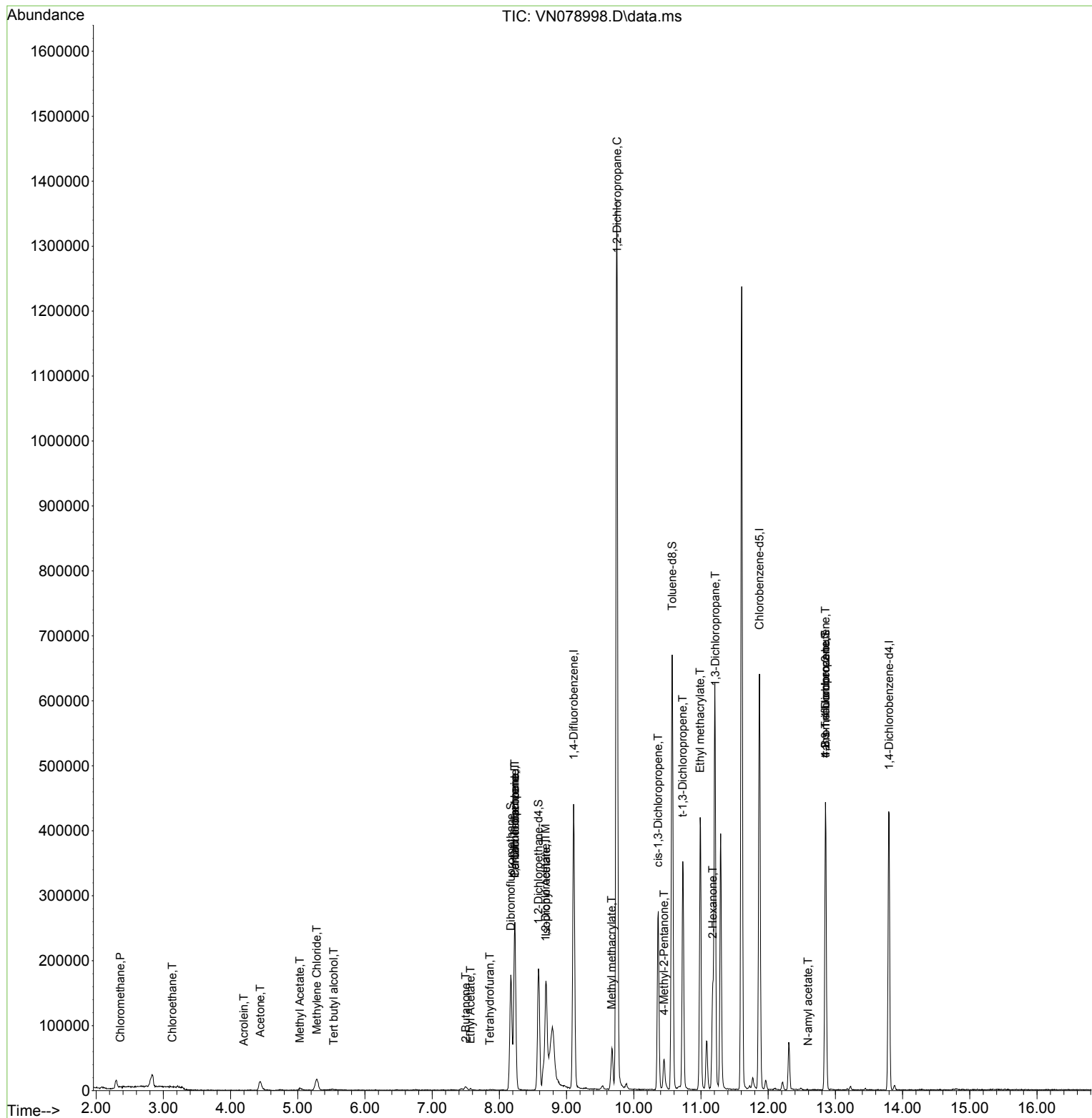
Internal Standards						
1) Pentafluorobenzene	8.230	168	176958	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	354877	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	355139	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	108636	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	148230	53.831	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.660%			
35) Dibromofluoromethane	8.171	113	121651	50.925	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.840%			
50) Toluene-d8	10.571	98	444831	50.150	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.300%			
62) 4-Bromofluorobenzene	12.853	95	142327	49.091	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 98.180%			
Target Compounds					Qvalue	
3) Chloromethane	2.359	50	1066	0.311	ug/l #	42
6) Chloroethane	3.136	64	1037	0.493	ug/l #	43
11) Tert butyl alcohol	5.536	59	330	0.714	ug/l #	72
13) Acrolein	4.200	56	56	7.033	ug/l #	16
16) Acetone	4.442	43	26591	23.404	ug/l	92
18) Methyl Acetate	5.030	43	5108	1.064	ug/l #	83
20) Methylene Chloride	5.283	84	13308	5.496	ug/l	90
25) 2-Butanone	7.500	43	9437	5.181	ug/l #	66
29) Tetrahydrofuran	7.859	42	466	0.386	ug/l #	28
31) Cyclohexane	8.230	56	5066	Below Cal	#	59
36) 1,1-Dichloropropene	8.230	75	16082	4.475	ug/l #	50
37) Ethyl Acetate	7.571	43	4010	0.997	ug/l #	72
38) Carbon Tetrachloride	8.230	117	19900	5.527	ug/l #	18
42) 1,2-Dichloroethane	8.688	62	1141	0.288	ug/l #	73
43) Isopropyl Acetate	8.694	43	223717	31.482	ug/l #	69
45) 1,2-Dichloropropane	9.753	63	1410	0.499	ug/l #	45
48) Methyl methacrylate	9.671	41	4749	1.475	ug/l #	30
51) 4-Methyl-2-Pentanone	10.453	43	37959	9.006	ug/l #	78
53) t-1,3-Dichloropropene	10.729	75	1088	0.265	ug/l #	53
54) cis-1,3-Dichloropropene	10.365	75	45507	10.173	ug/l #	71
56) Ethyl methacrylate	10.988	69	1679	0.414	ug/l #	1
57) 1,3-Dichloropropane	11.212	76	6543	1.399	ug/l #	42
59) 2-Hexanone	11.176	43	135197	44.287	ug/l #	19
74) N-amyl acetate	12.594	43	933	0.204	ug/l #	36
76) 1,2,3-Trichloropropane	12.853	75	78029	29.809	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	78029	76.150	ug/l #	15

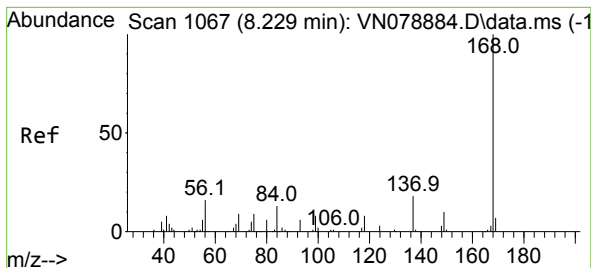
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Aug 16 02:42:02 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN078998.D

Acq: 22 Aug 2023 16:48

Instrument :

MSVOA_N

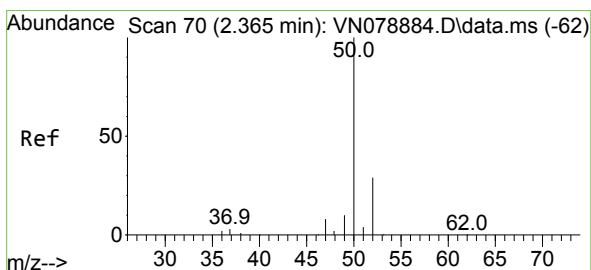
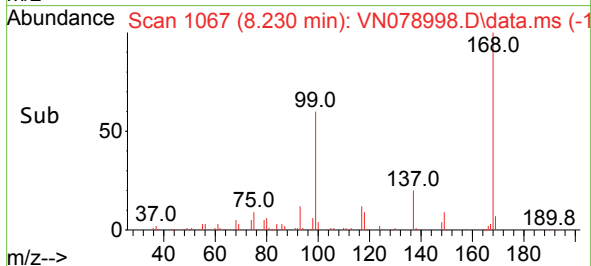
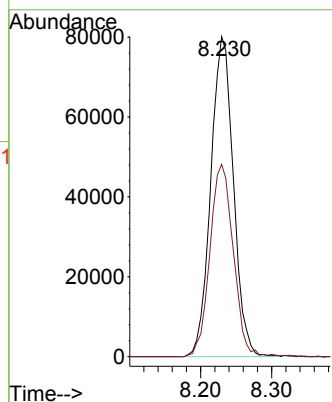
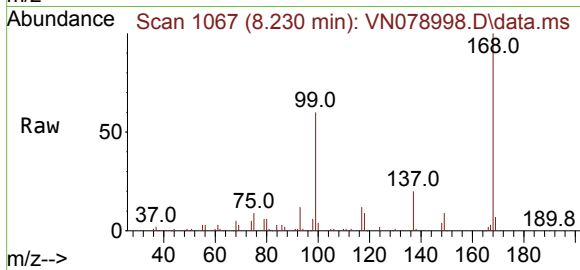
ClientSampleId :

Tgt Ion:168 Resp: 176958

Ion Ratio Lower Upper

168 100

99 60.1 53.0 79.6



#3

Chloromethane

Concen: 0.311 ug/l

RT: 2.359 min Scan# 69

Delta R.T. -0.012 min

Lab File: VN078998.D

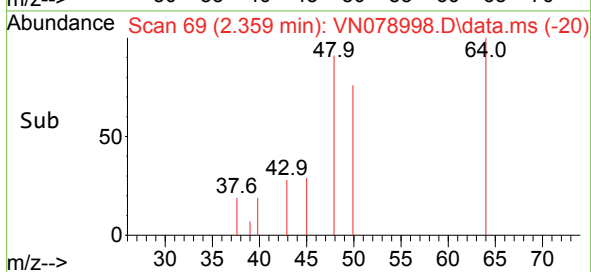
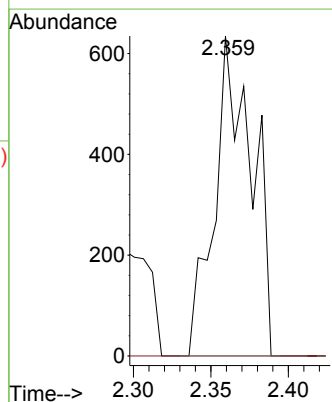
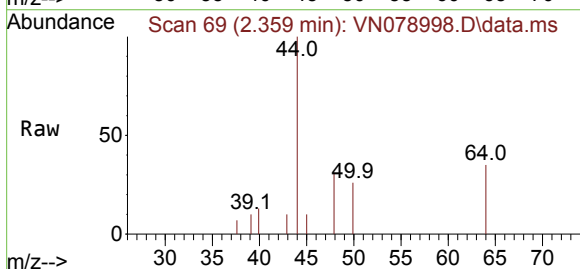
Acq: 22 Aug 2023 16:48

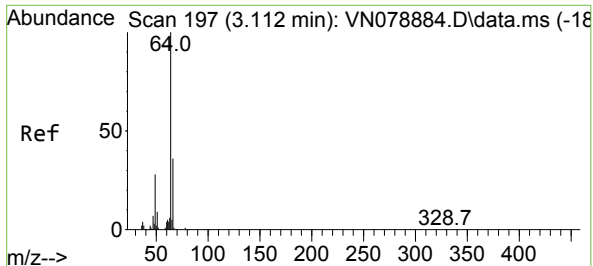
Tgt Ion: 50 Resp: 1066

Ion Ratio Lower Upper

50 100

52 0.0 26.5 39.7#

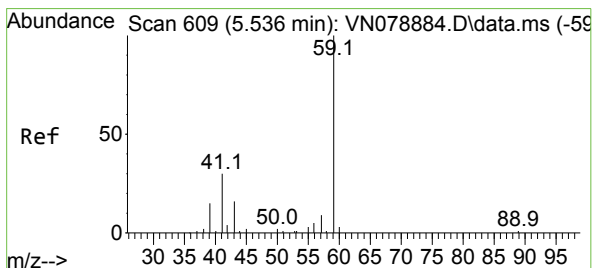
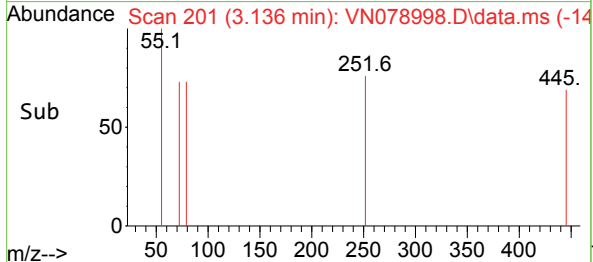
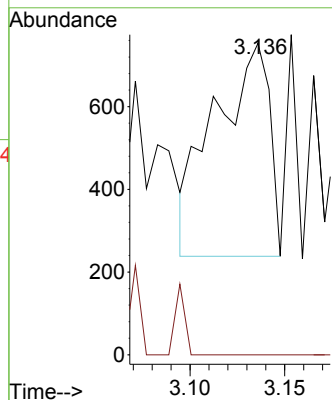
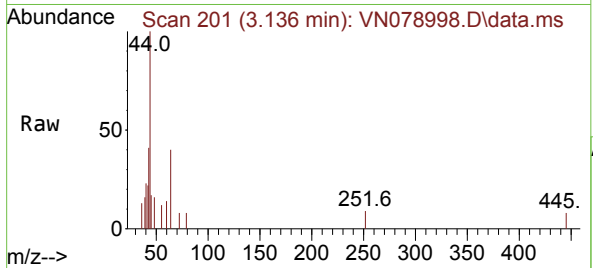




#6
Chloroethane
Concen: 0.493 ug/l
RT: 3.136 min Scan# 201
Delta R.T. 0.018 min
Lab File: VN078998.D
Acq: 22 Aug 2023 16:48

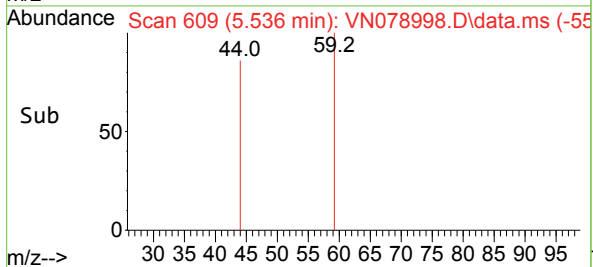
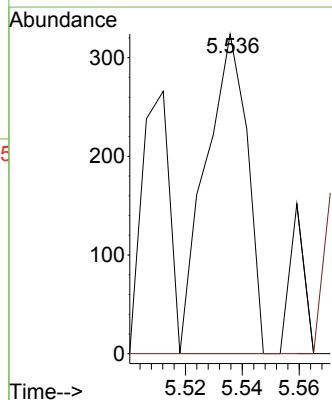
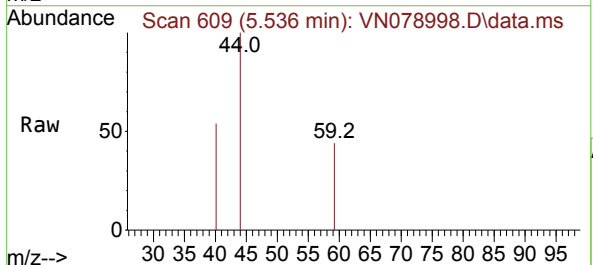
Instrument :
MSVOA_N
ClientSampleId :

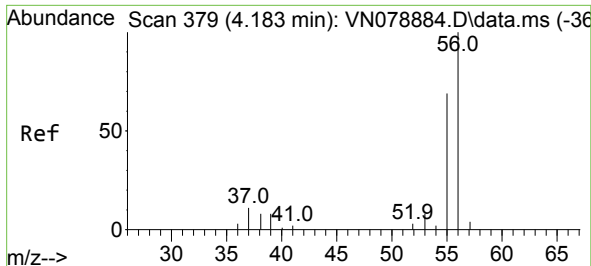
Tgt Ion: 64 Resp: 1037
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#11
Tert butyl alcohol
Concen: 0.714 ug/l
RT: 5.536 min Scan# 609
Delta R.T. -0.006 min
Lab File: VN078998.D
Acq: 22 Aug 2023 16:48

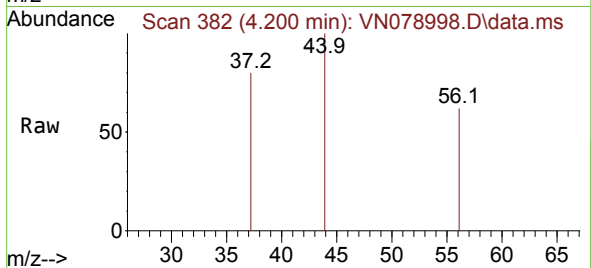
Tgt Ion: 59 Resp: 330
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



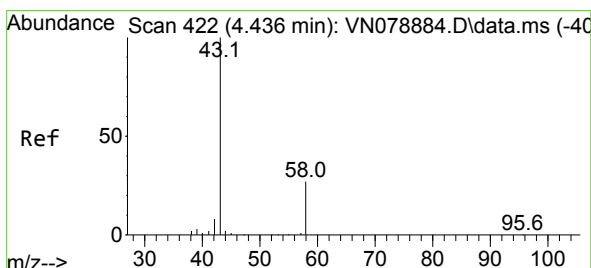
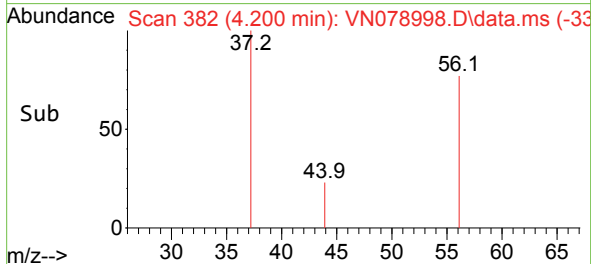
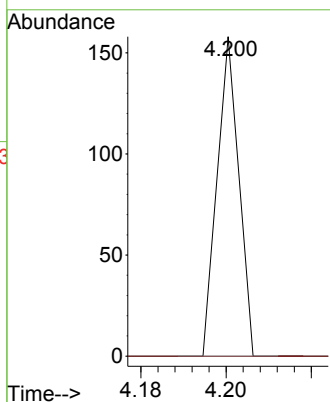


#13
Acrolein
Concen: 7.033 ug/l
RT: 4.200 min Scan# 382
Delta R.T. 0.005 min
Lab File: VN078998.D
Acq: 22 Aug 2023 16:48

Instrument :
MSVOA_N
ClientSampleId :

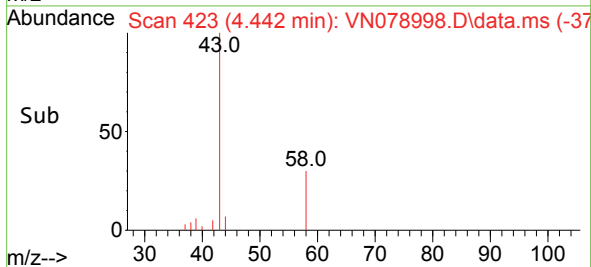
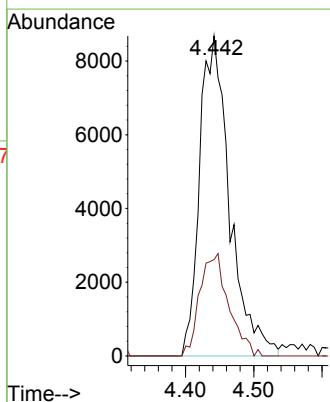
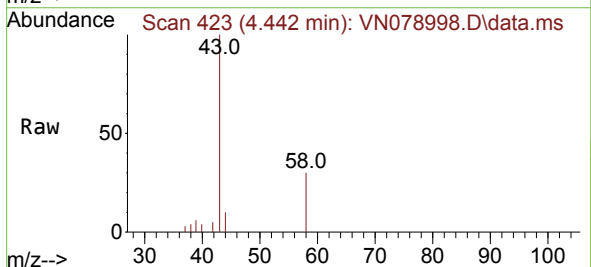


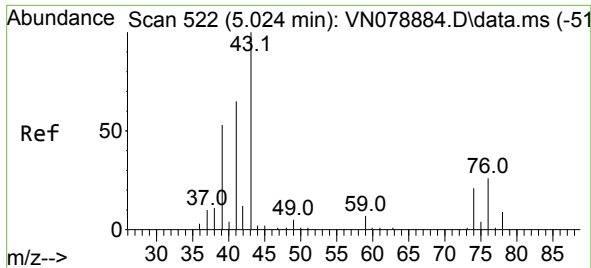
Tgt Ion: 56 Resp: 56
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#



#16
Acetone
Concen: 23.404 ug/l
RT: 4.442 min Scan# 423
Delta R.T. -0.000 min
Lab File: VN078998.D
Acq: 22 Aug 2023 16:48

Tgt Ion: 43 Resp: 26591
Ion Ratio Lower Upper
43 100
58 30.1 28.0 42.0

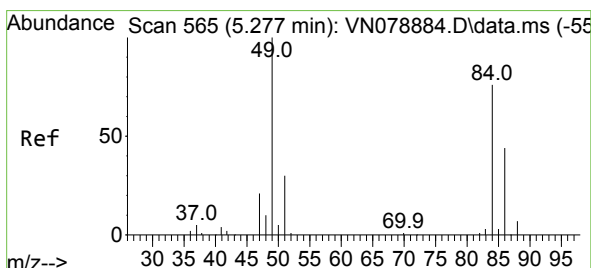
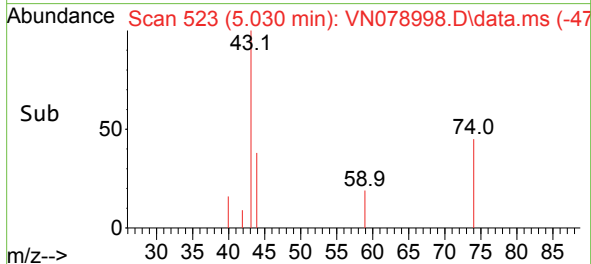
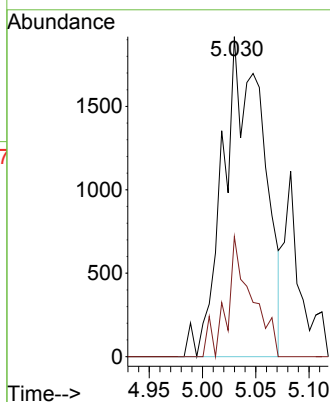
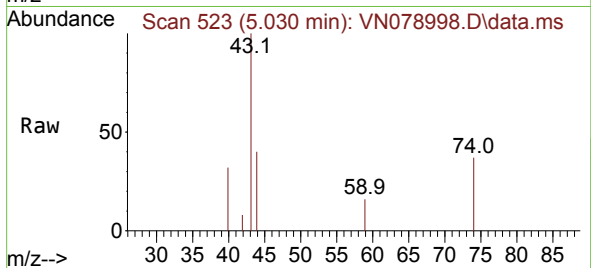




#18
Methyl Acetate
Concen: 1.064 ug/l
RT: 5.030 min Scan# 51
Delta R.T. -0.012 min
Lab File: VN078998.D
Acq: 22 Aug 2023 16:48

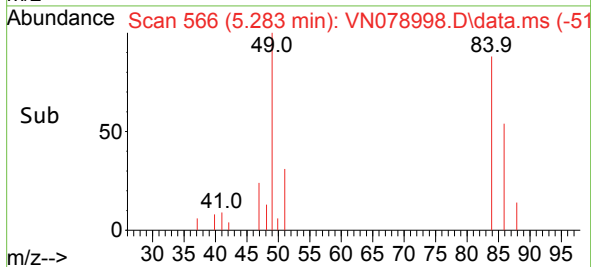
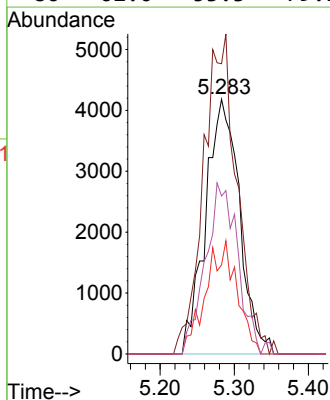
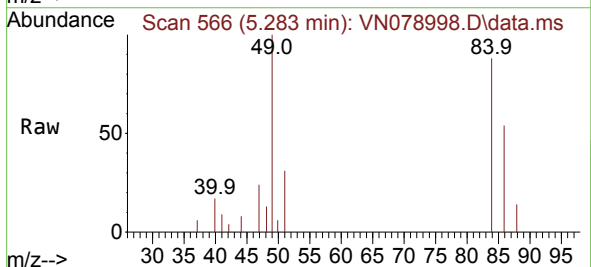
Instrument :
MSVOA_N
ClientSampleId :

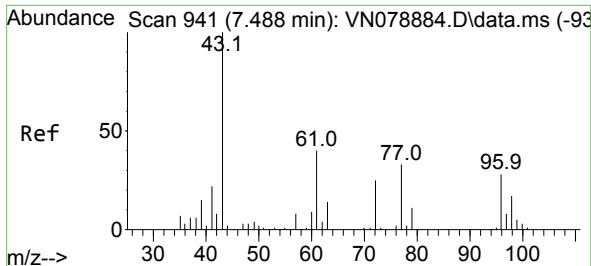
Tgt Ion: 43 Resp: 5108
Ion Ratio Lower Upper
43 100
74 23.3 26.2 39.4#



#20
Methylene Chloride
Concen: 5.496 ug/l
RT: 5.283 min Scan# 566
Delta R.T. -0.000 min
Lab File: VN078998.D
Acq: 22 Aug 2023 16:48

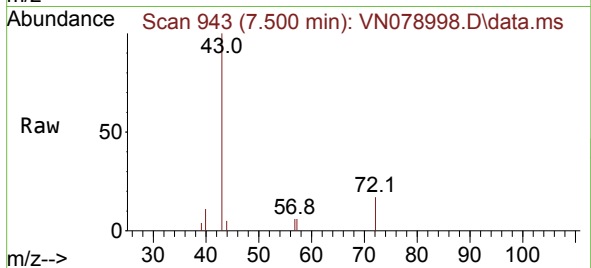
Tgt Ion: 84 Resp: 13308
Ion Ratio Lower Upper
84 100
49 113.9 79.7 119.5
51 35.0 25.2 37.8
86 62.0 53.3 79.9



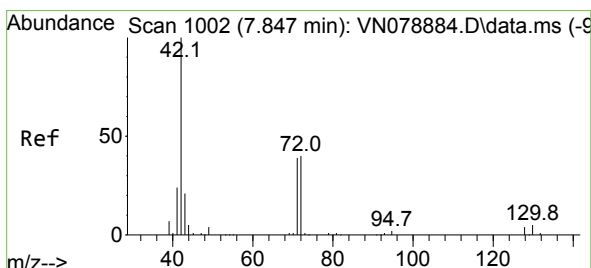
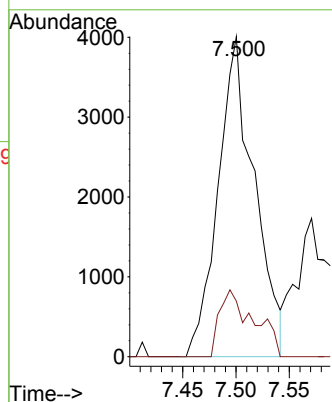
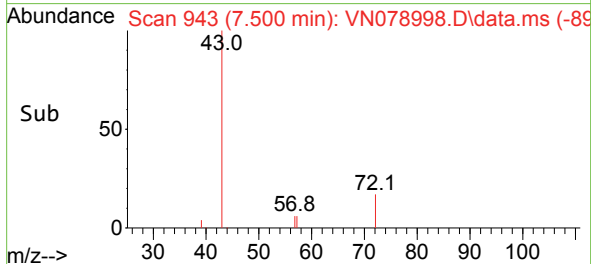


#25
2-Butanone
Concen: 5.181 ug/l
RT: 7.500 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN078998.D
Acq: 22 Aug 2023 16:48

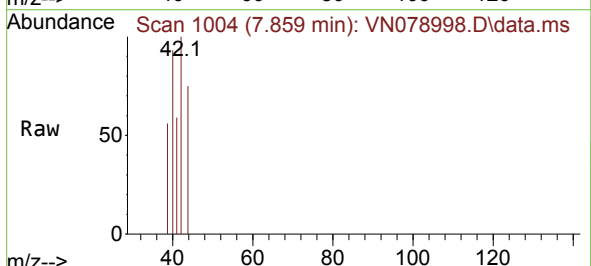
Instrument :
MSVOA_N
ClientSampleId :



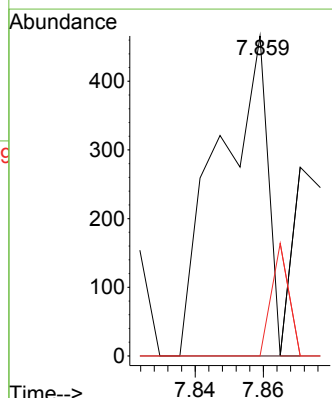
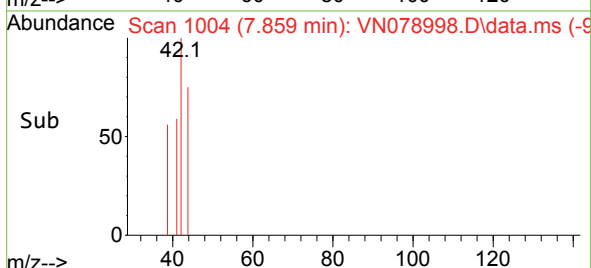
Tgt Ion: 43 Resp: 9437
Ion Ratio Lower Upper
43 100
72 17.4 30.2 45.2#

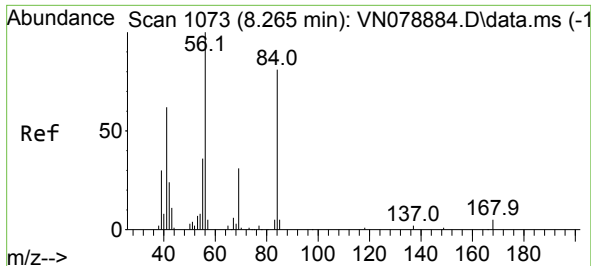


#29
Tetrahydrofuran
Concen: 0.386 ug/l
RT: 7.859 min Scan# 1004
Delta R.T. 0.012 min
Lab File: VN078998.D
Acq: 22 Aug 2023 16:48



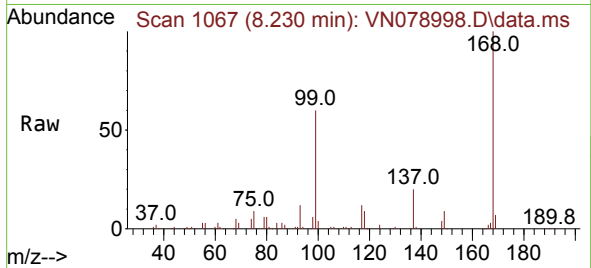
Tgt Ion: 42 Resp: 466
Ion Ratio Lower Upper
42 100
72 0.0 49.8 74.6#
71 12.4 47.4 71.2#



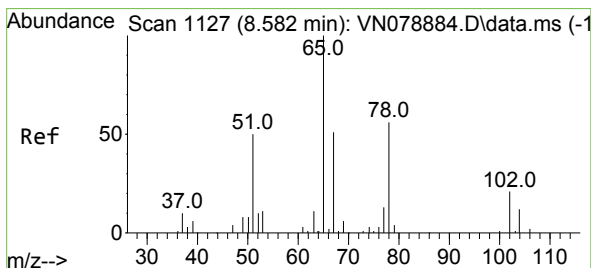
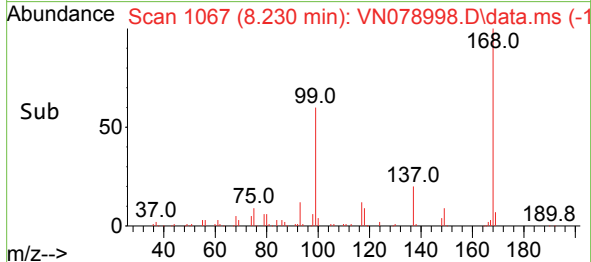
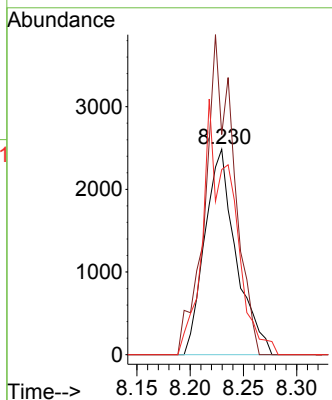


#31
Cyclohexane
Concen: Below Cal
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078998.D
Acq: 22 Aug 2023 16:48

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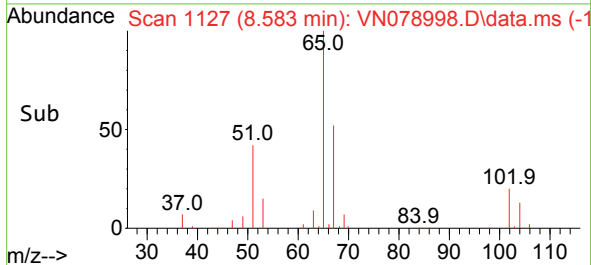
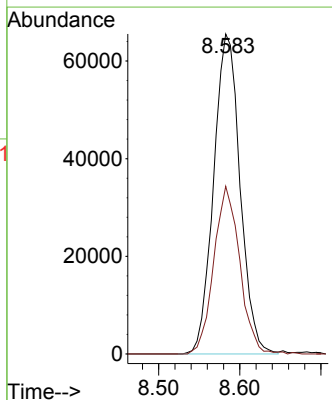
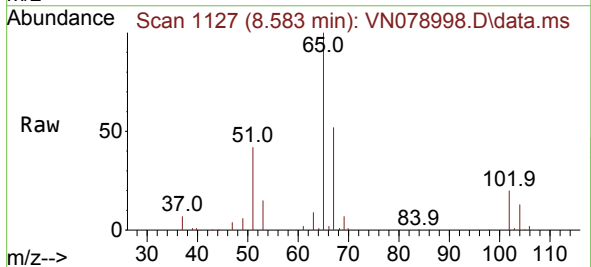


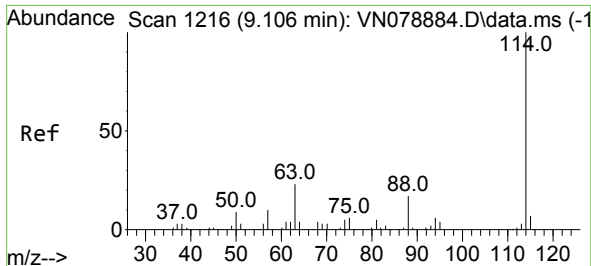
Tgt Ion: 56 Resp: 5066
Ion Ratio Lower Upper
56 100
69 107.2 26.8 40.2#
84 90.1 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 53.831 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.000 min
Lab File: VN078998.D
Acq: 22 Aug 2023 16:48

Tgt Ion: 65 Resp: 148230
Ion Ratio Lower Upper
65 100
67 51.4 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN078998.D

Acq: 22 Aug 2023 16:48

Instrument :

MSVOA_N

ClientSampleId :

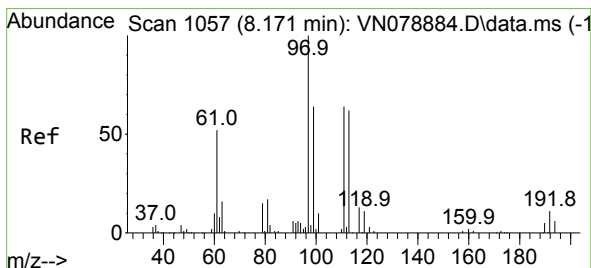
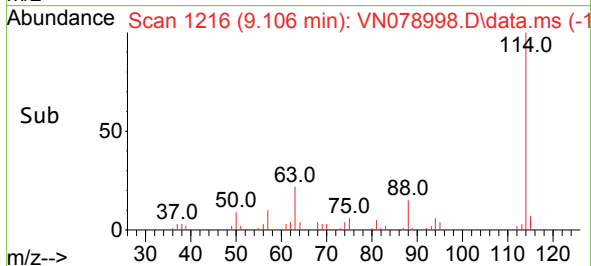
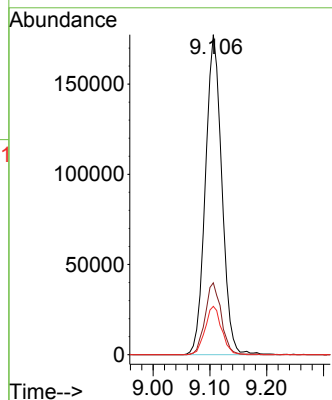
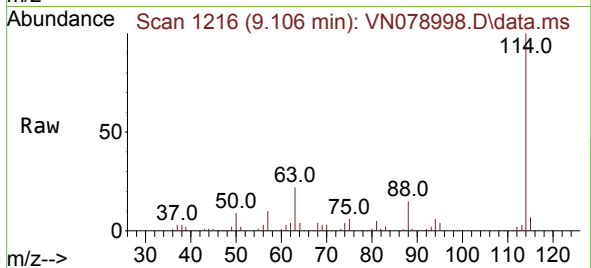
Tgt Ion:114 Resp: 354877

Ion Ratio Lower Upper

114 100

63 22.5 0.0 36.4

88 15.1 0.0 30.6



#35

Dibromofluoromethane

Concen: 50.925 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN078998.D

Acq: 22 Aug 2023 16:48

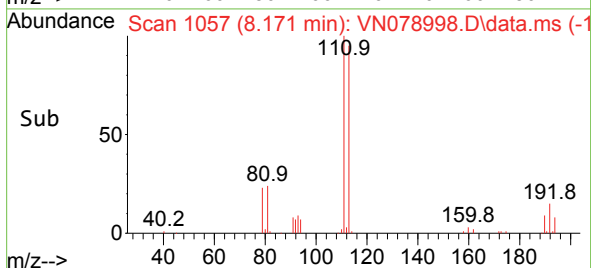
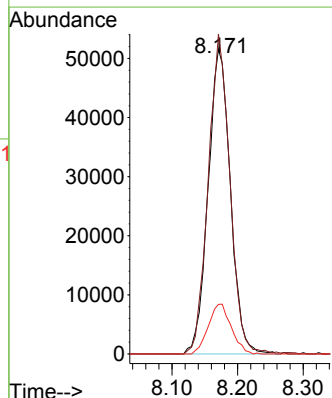
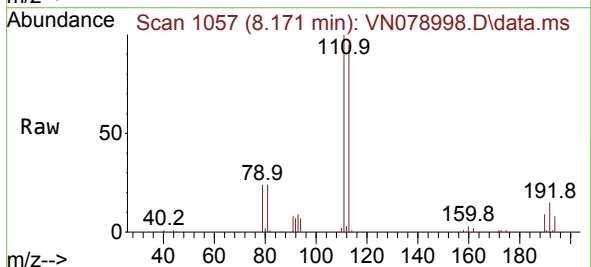
Tgt Ion:113 Resp: 121651

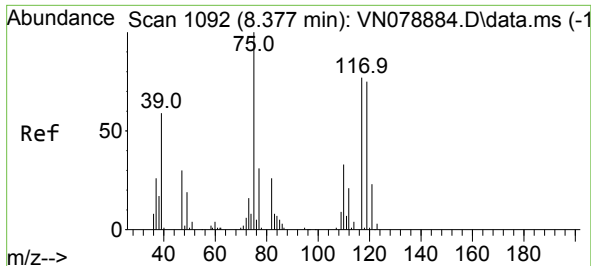
Ion Ratio Lower Upper

113 100

111 102.1 82.6 123.8

192 16.8 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.475 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.147 min

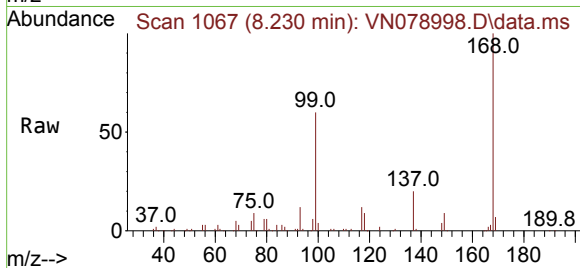
Lab File: VN078998.D

Acq: 22 Aug 2023 16:48

Instrument :

MSVOA_N

ClientSampleId :



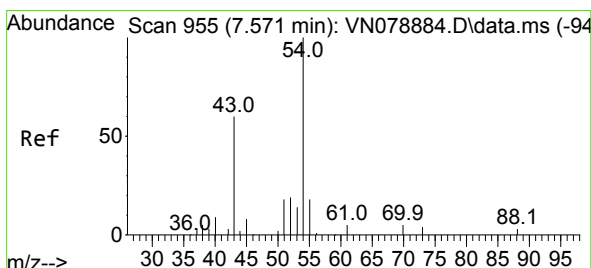
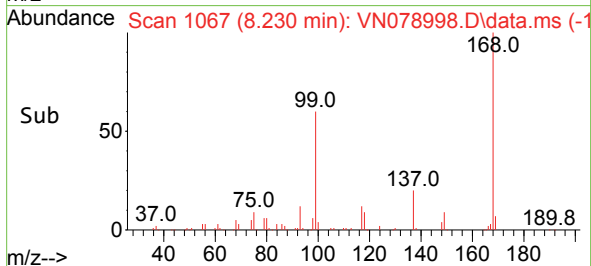
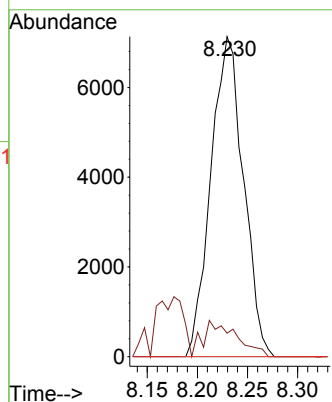
Tgt Ion: 75 Resp: 16082

Ion Ratio Lower Upper

75 100

110 11.5 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 0.997 ug/l

RT: 7.571 min Scan# 955

Delta R.T. -0.000 min

Lab File: VN078998.D

Acq: 22 Aug 2023 16:48

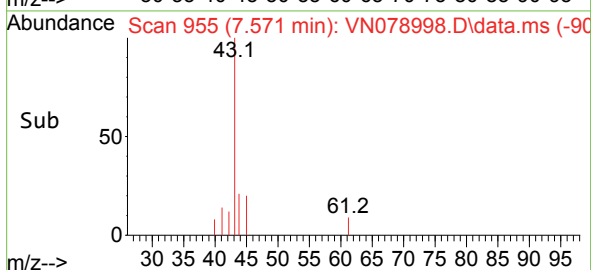
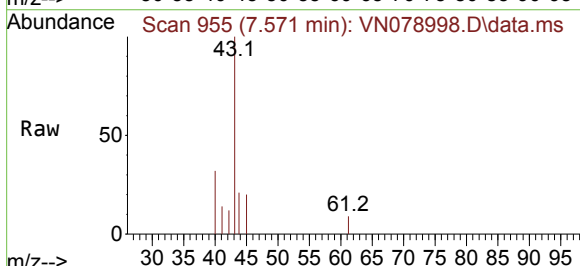
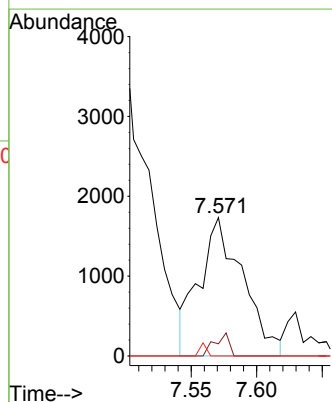
Tgt Ion: 43 Resp: 4010

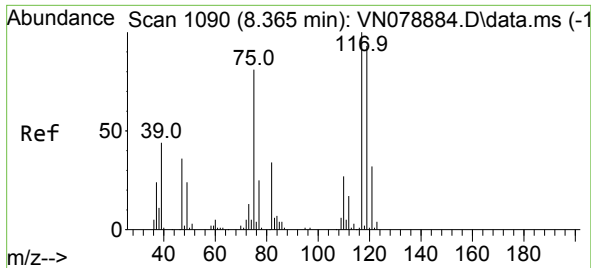
Ion Ratio Lower Upper

43 100

61 5.4 13.2 19.8#

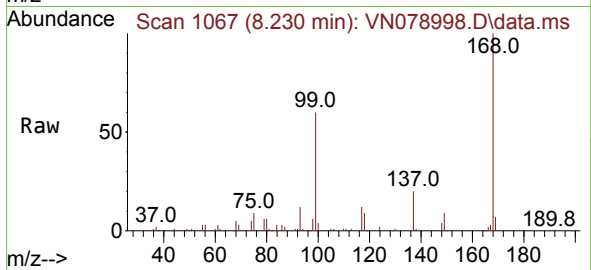
70 1.4 11.3 16.9#



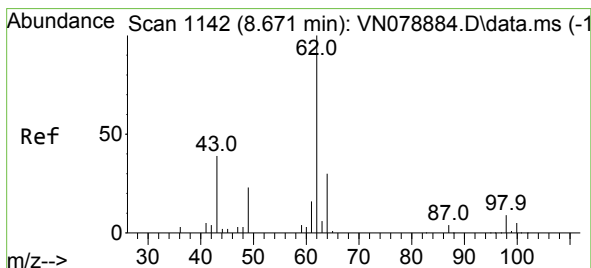
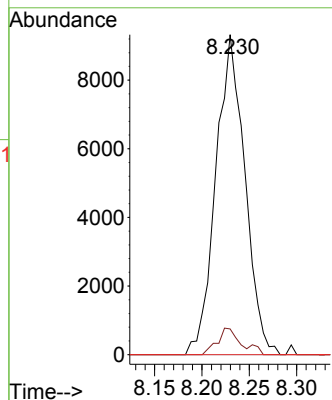
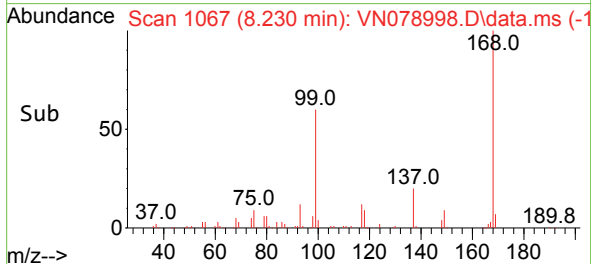


#38
Carbon Tetrachloride
Concen: 5.527 ug/l
RT: 8.230 min Scan# 1107
Delta R.T. -0.141 min
Lab File: VN078998.D
Acq: 22 Aug 2023 16:48

Instrument :
MSVOA_N
ClientSampleId :

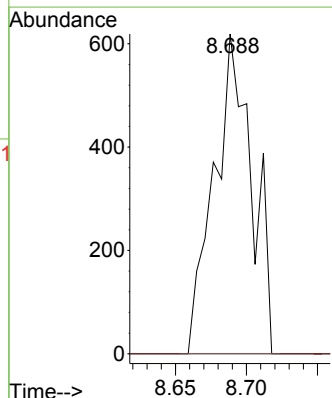
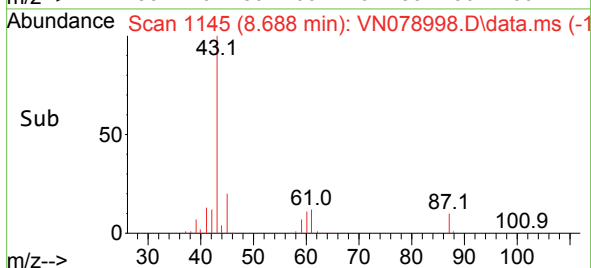
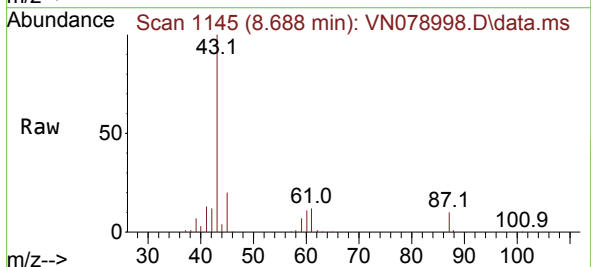


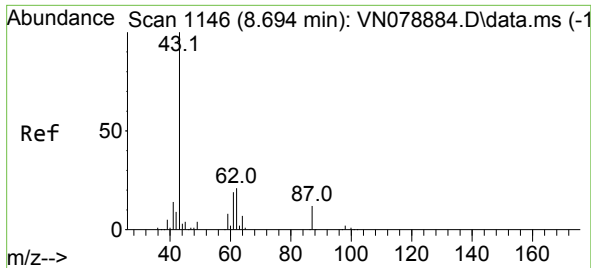
Tgt Ion:117 Resp: 19900
Ion Ratio Lower Upper
117 100
119 8.0 77.3 115.9#
121 0.0 23.3 34.9#



#42
1,2-Dichloroethane
Concen: 0.288 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.011 min
Lab File: VN078998.D
Acq: 22 Aug 2023 16:48

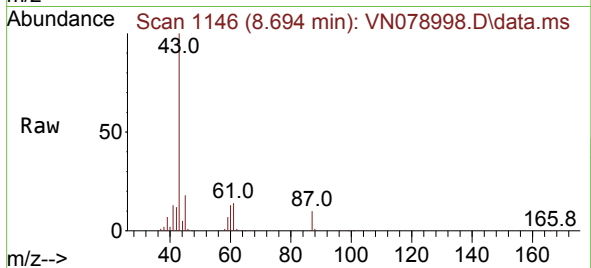
Tgt Ion: 62 Resp: 1141
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.8



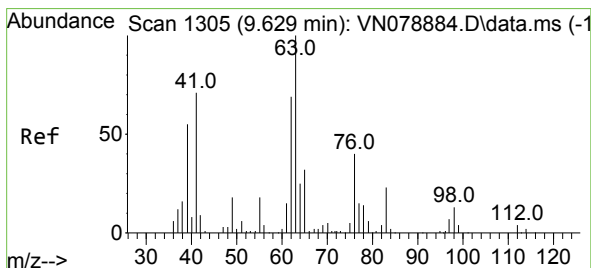
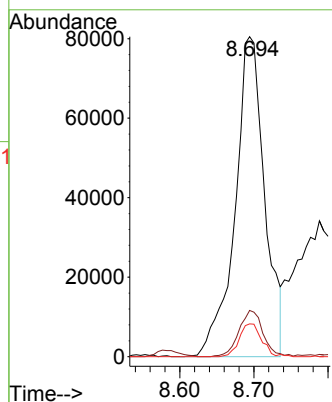
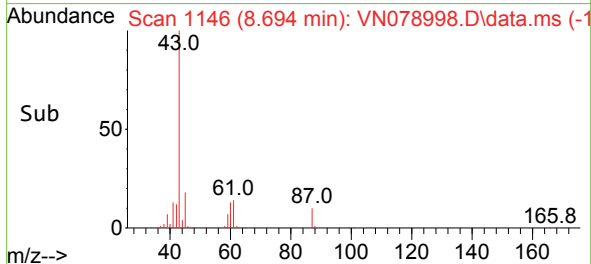


#43
Isopropyl Acetate
Concen: 31.482 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN078998.D
Acq: 22 Aug 2023 16:48

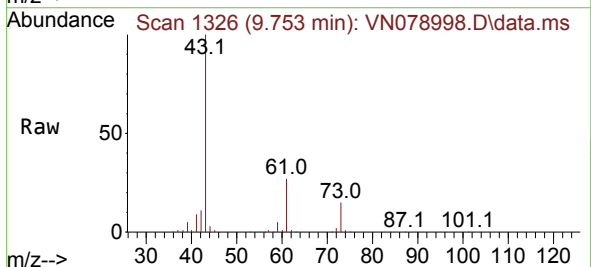
Instrument :
MSVOA_N
ClientSampleId :



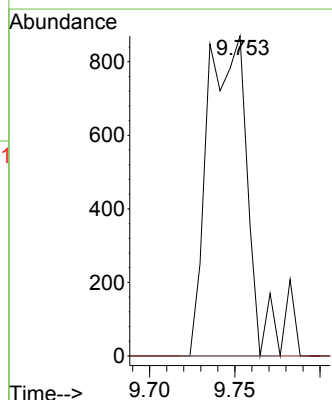
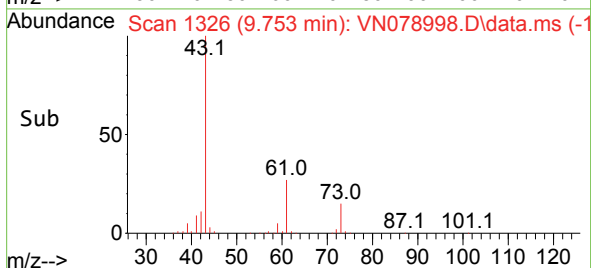
Tgt Ion: 43 Resp: 223717
Ion Ratio Lower Upper
43 100
61 11.8 24.7 37.1#
87 7.8 14.6 21.8#

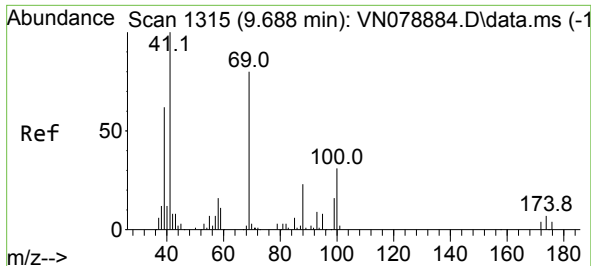


#45
1,2-Dichloropropane
Concen: 0.499 ug/l
RT: 9.753 min Scan# 1326
Delta R.T. 0.129 min
Lab File: VN078998.D
Acq: 22 Aug 2023 16:48



Tgt Ion: 63 Resp: 1410
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#

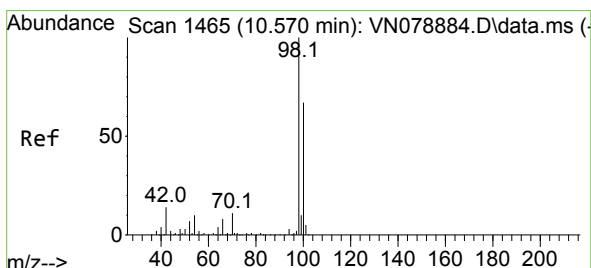
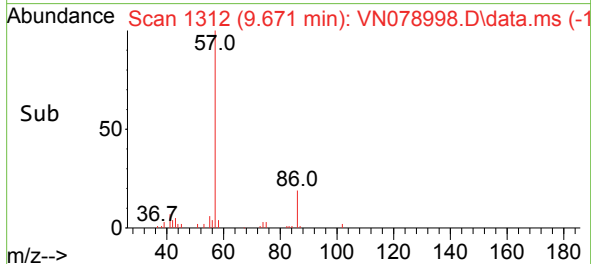
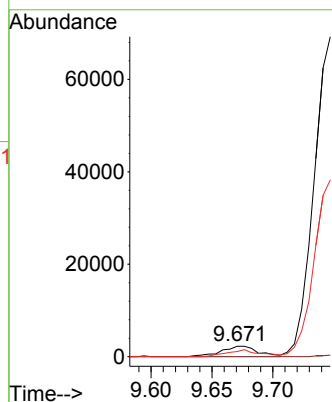
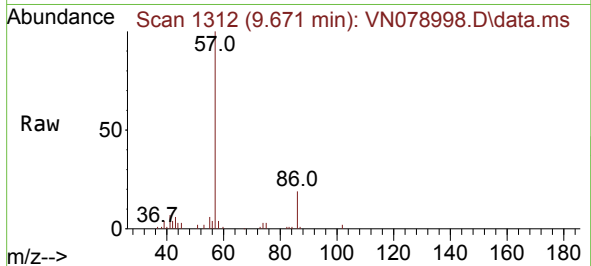




#48
Methyl methacrylate
Concen: 1.475 ug/l
RT: 9.671 min Scan# 11
Delta R.T. -0.017 min
Lab File: VN078998.D
Acq: 22 Aug 2023 16:48

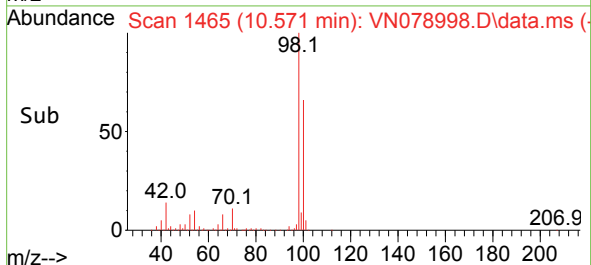
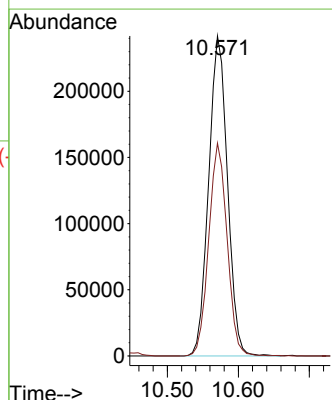
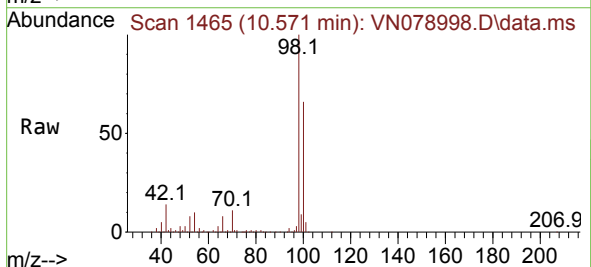
Instrument :
MSVOA_N
ClientSampleId :

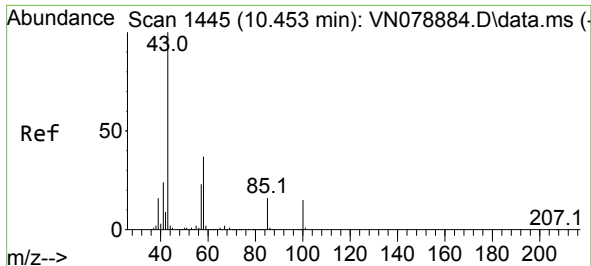
Tgt Ion: 41 Resp: 4749
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 59.8 54.6 81.8



#50
Toluene-d8
Concen: 50.150 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078998.D
Acq: 22 Aug 2023 16:48

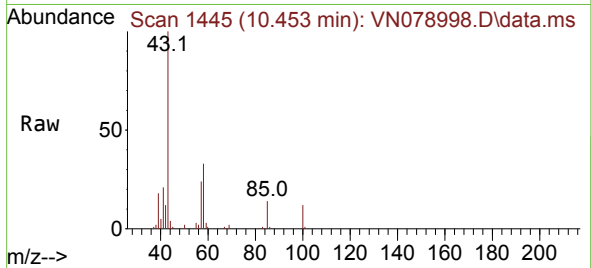
Tgt Ion: 98 Resp: 444831
Ion Ratio Lower Upper
98 100
100 65.0 52.0 78.0



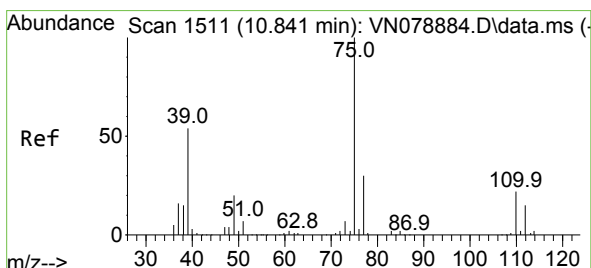
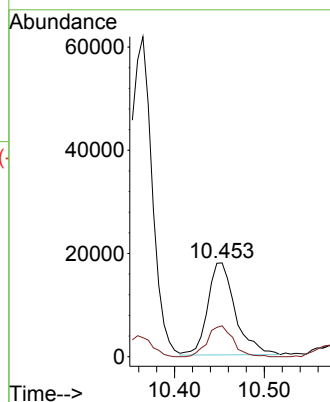
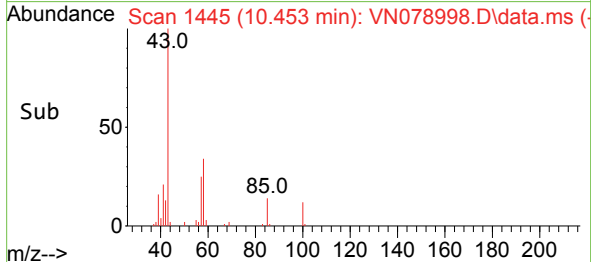


#51
4-Methyl-2-Pentanone
Concen: 9.006 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. -0.000 min
Lab File: VN078998.D
Acq: 22 Aug 2023 16:48

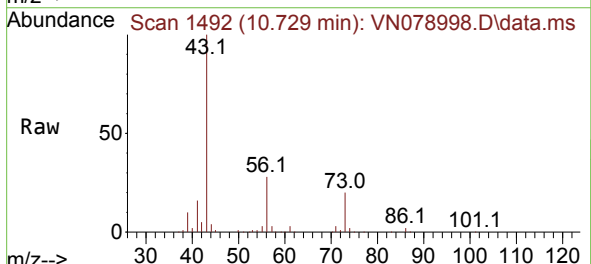
Instrument :
MSVOA_N
ClientSampleId :



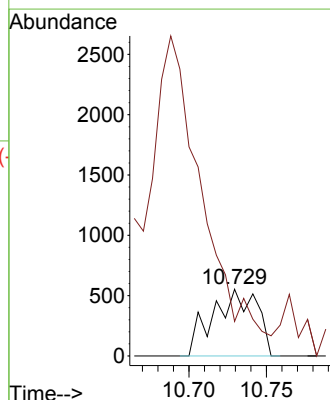
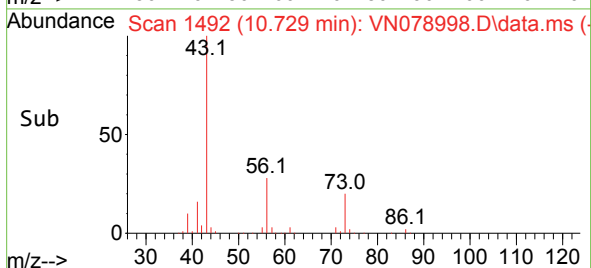
Tgt Ion: 43 Resp: 37959
Ion Ratio Lower Upper
43 100
58 31.2 36.6 54.8#

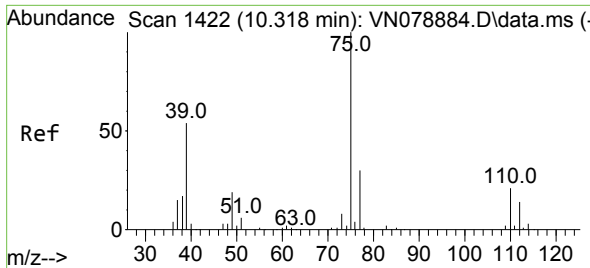


#53
t-1,3-Dichloropropene
Concen: 0.265 ug/l
RT: 10.729 min Scan# 1492
Delta R.T. -0.112 min
Lab File: VN078998.D
Acq: 22 Aug 2023 16:48



Tgt Ion: 75 Resp: 1088
Ion Ratio Lower Upper
75 100
77 5.4 25.4 38.0#

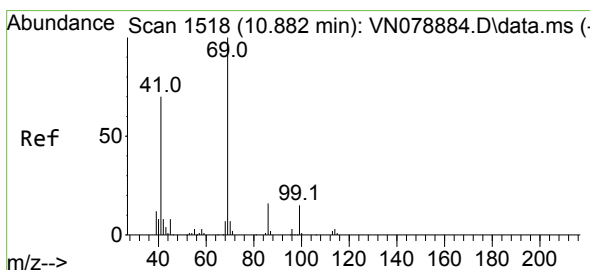
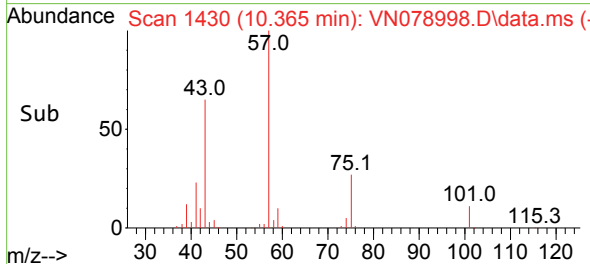
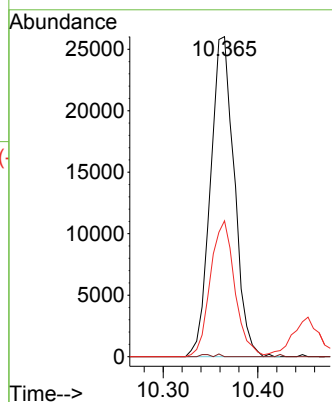
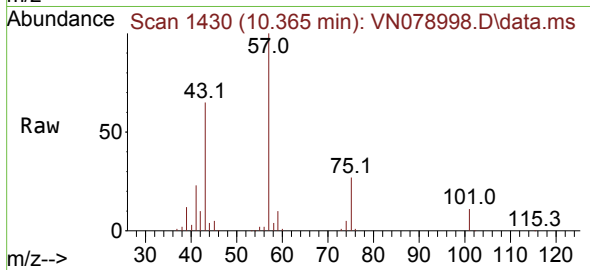




#54
 cis-1,3-Dichloropropene
 Concen: 10.173 ug/l
 RT: 10.365 min Scan# 1422
 Delta R.T. 0.047 min
 Lab File: VN078998.D
 Acq: 22 Aug 2023 16:48

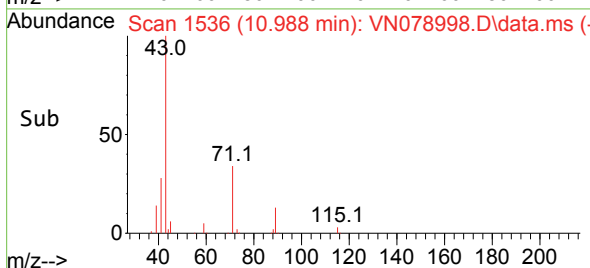
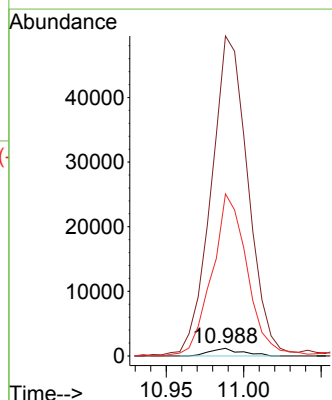
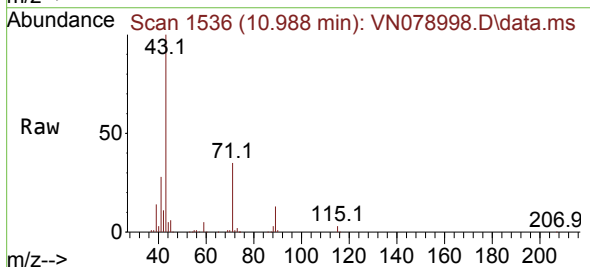
Instrument :
 MSVOA_N
 ClientSampleId :

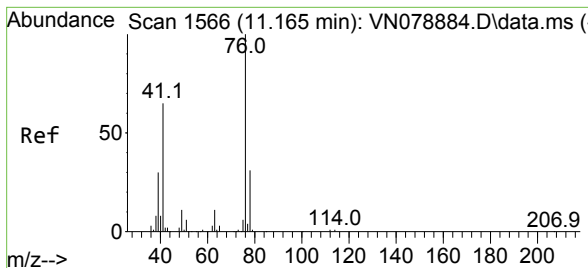
Tgt Ion: 75 Resp: 45507
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.1 39.1#
 39 42.5 31.6 47.4



#56
 Ethyl methacrylate
 Concen: 0.414 ug/l
 RT: 10.988 min Scan# 1536
 Delta R.T. 0.111 min
 Lab File: VN078998.D
 Acq: 22 Aug 2023 16:48

Tgt Ion: 69 Resp: 1679
 Ion Ratio Lower Upper
 69 100
 41 4891.7 39.6 59.4#
 39 2371.9 28.6 43.0#

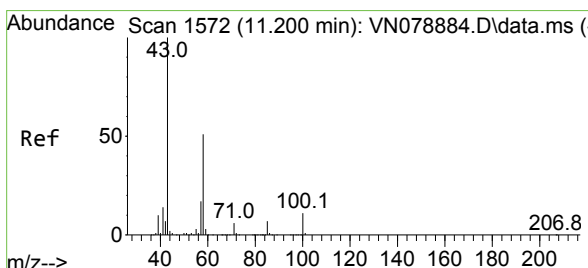
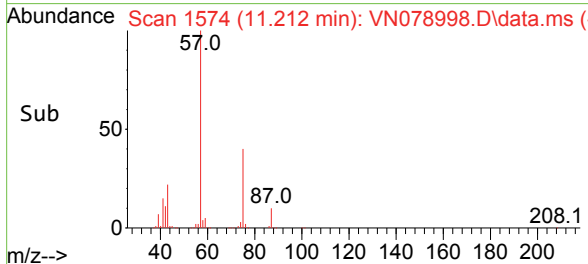
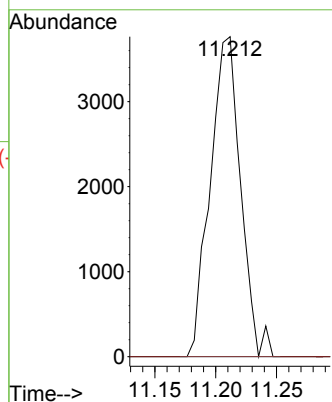
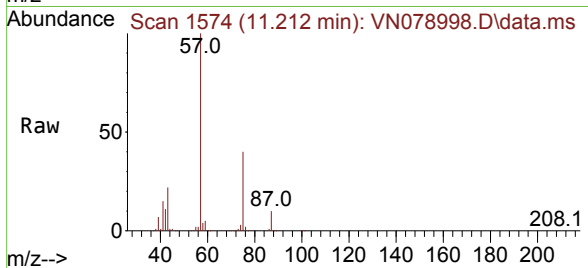




#57
1,3-Dichloropropane
Concen: 1.399 ug/l
RT: 11.212 min Scan# 11
Delta R.T. 0.047 min
Lab File: VN078998.D
Acq: 22 Aug 2023 16:48

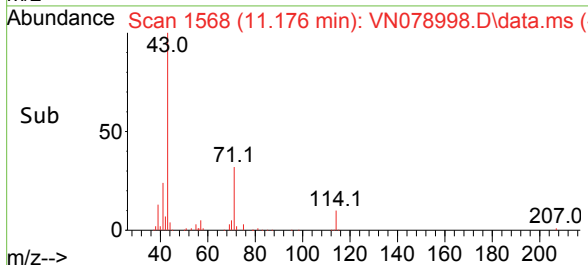
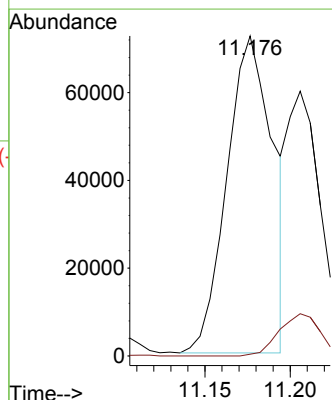
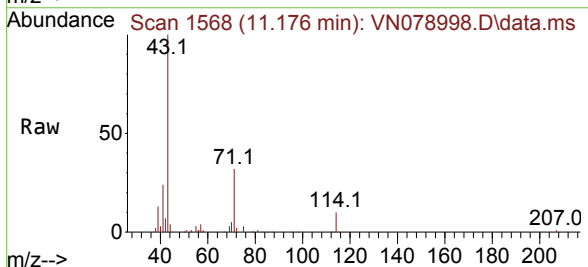
Instrument :
MSVOA_N
ClientSampleId :

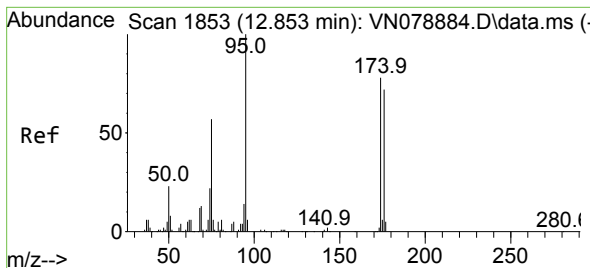
Tgt Ion: 76 Resp: 6543
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#



#59
2-Hexanone
Concen: 44.287 ug/l
RT: 11.176 min Scan# 1568
Delta R.T. -0.024 min
Lab File: VN078998.D
Acq: 22 Aug 2023 16:48

Tgt Ion: 43 Resp: 135197
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#

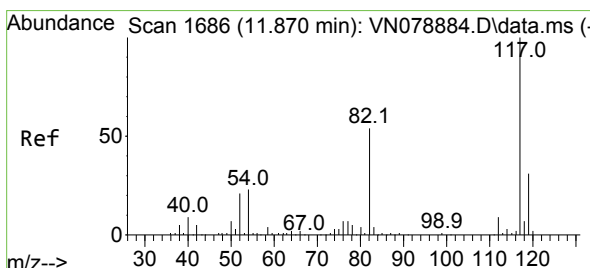
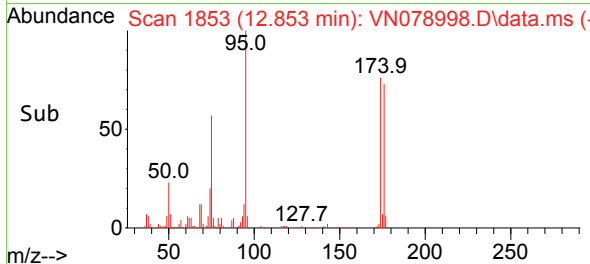
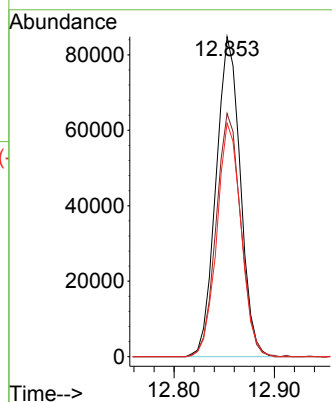
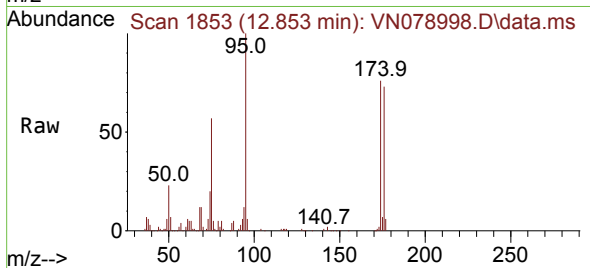




#62
4-Bromofluorobenzene
Concen: 49.091 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078998.D
Acq: 22 Aug 2023 16:48

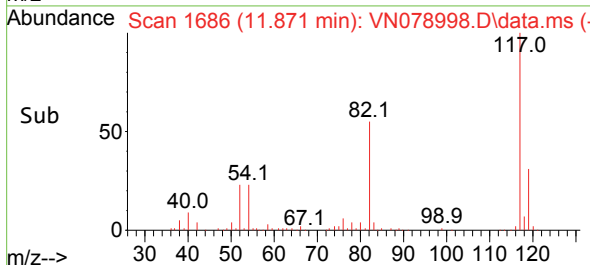
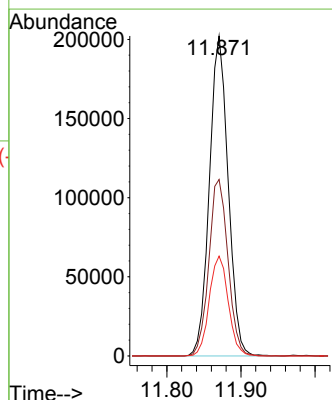
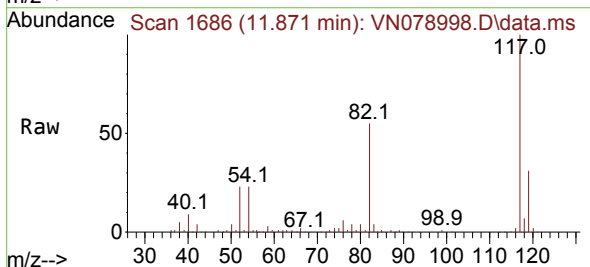
Instrument :
MSVOA_N
ClientSampleId :

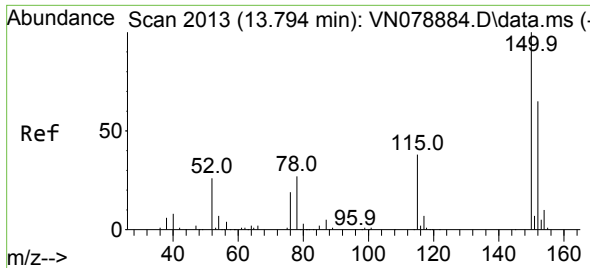
Tgt Ion: 95 Resp: 142327
Ion Ratio Lower Upper
95 100
174 77.4 0.0 143.8
176 72.8 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN078998.D
Acq: 22 Aug 2023 16:48

Tgt Ion: 117 Resp: 355139
Ion Ratio Lower Upper
117 100
82 55.2 44.0 66.0
119 31.2 25.6 38.4

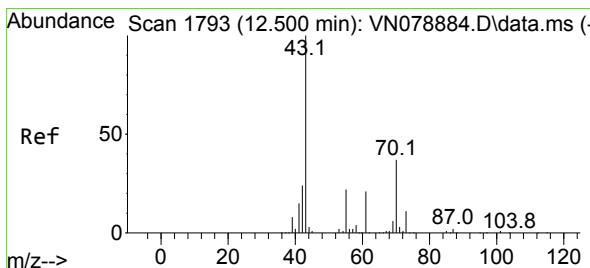
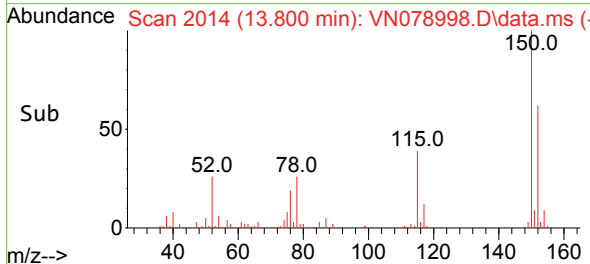
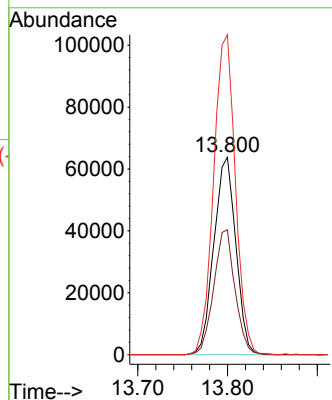
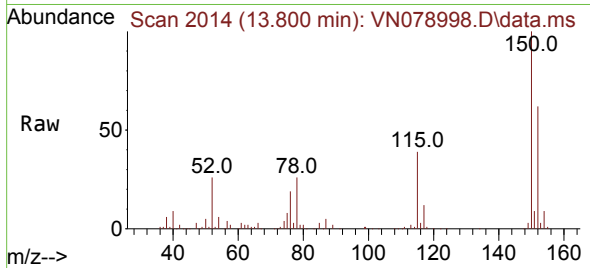




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.800 min Scan# 20
 Delta R.T. 0.006 min
 Lab File: VN078998.D
 Acq: 22 Aug 2023 16:48

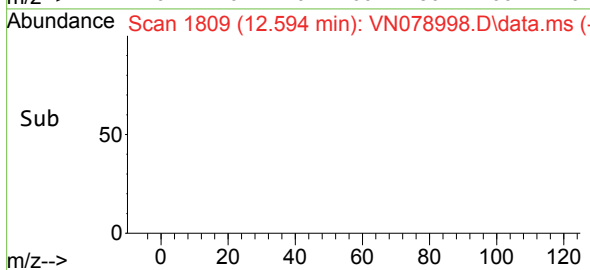
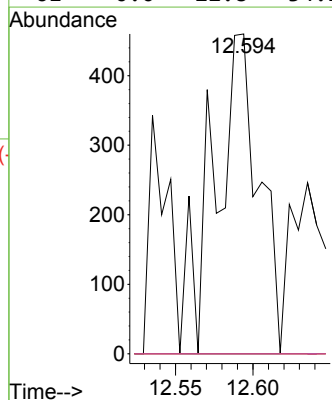
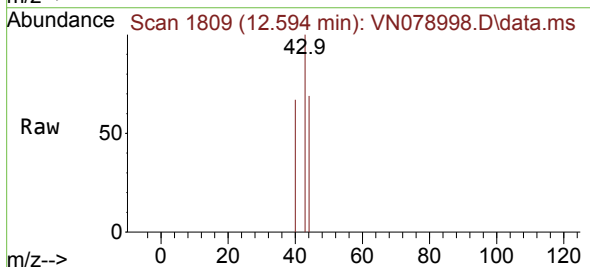
Instrument :
 MSVOA_N
 ClientSampleId :

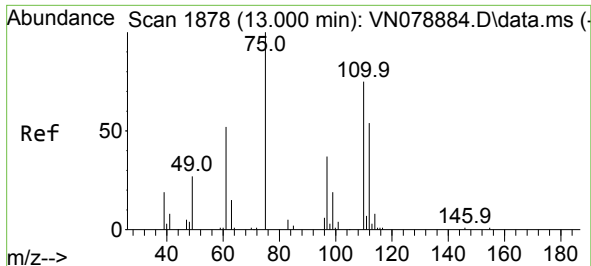
Tgt Ion:152 Resp: 108636
 Ion Ratio Lower Upper
 152 100
 115 61.3 32.3 96.8
 150 160.4 0.0 355.8



#74
 N-amy1 acetate
 Concen: 0.204 ug/l
 RT: 12.594 min Scan# 1809
 Delta R.T. 0.094 min
 Lab File: VN078998.D
 Acq: 22 Aug 2023 16:48

Tgt Ion: 43 Resp: 933
 Ion Ratio Lower Upper
 43 100
 70 0.0 43.4 65.2#
 55 0.0 21.4 32.0#
 61 0.0 22.8 34.2#

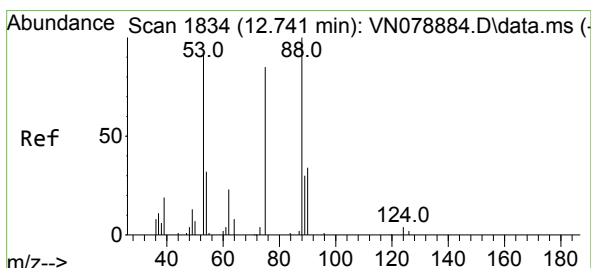
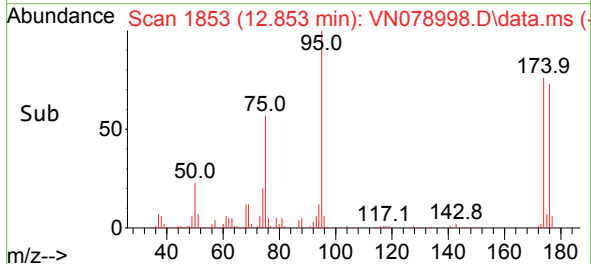
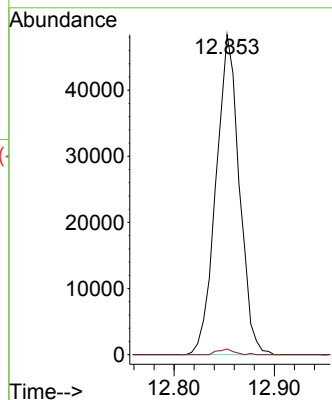
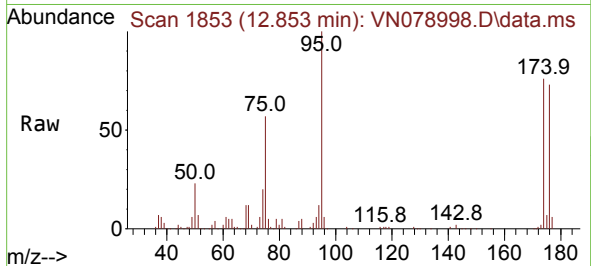




#76
1,2,3-Trichloropropane
Concen: 29.809 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078998.D
Acq: 22 Aug 2023 16:48

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 78029
Ion Ratio Lower Upper
75 100
77 1.3 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 76.150 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078998.D
Acq: 22 Aug 2023 16:48

Tgt Ion: 75 Resp: 78029
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#

