

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081623\
 Data File : VN078907.D
 Acq On : 16 Aug 2023 16:54
 Operator : JC\MD
 Sample : 04022-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-16

Quant Time: Aug 17 01:18:47 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)

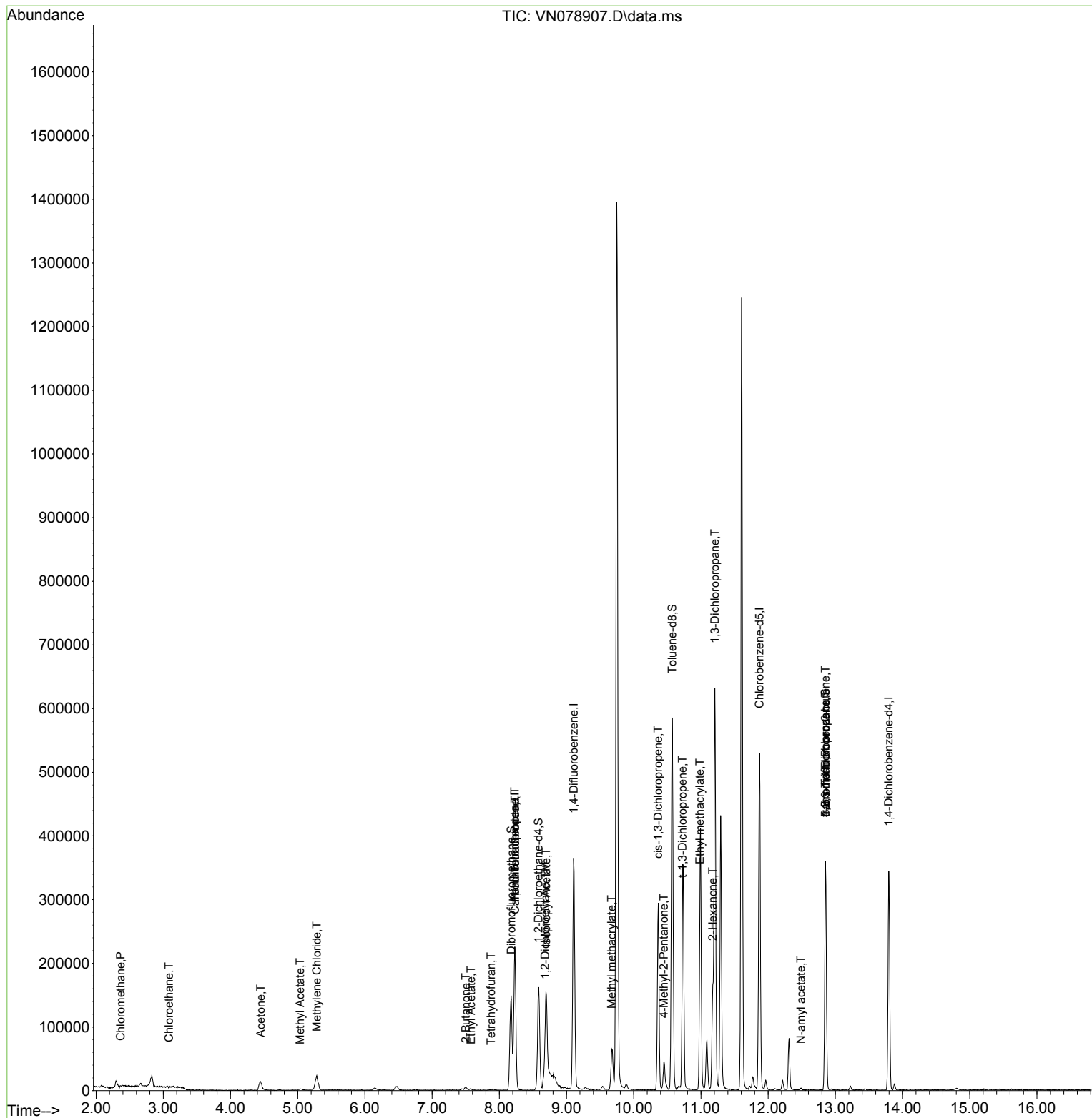
Internal Standards						
1) Pentafluorobenzene	8.230	168	147706	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	293377	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	293102	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	85945	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	129421	56.308	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.620%			
35) Dibromofluoromethane	8.177	113	101828	51.562	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.120%			
50) Toluene-d8	10.571	98	383459	52.293	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.580%			
62) 4-Bromofluorobenzene	12.853	95	114958	47.963	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 95.920%			
Target Compounds					Qvalue	
3) Chloromethane	2.365	50	1108	0.387	ug/l #	82
6) Chloroethane	3.083	64	792	0.451	ug/l #	43
16) Acetone	4.448	43	26736	28.192	ug/l	88
18) Methyl Acetate	5.036	43	5118	1.277	ug/l #	69
20) Methylene Chloride	5.283	84	15687	7.762	ug/l #	77
25) 2-Butanone	7.500	43	7752	5.098	ug/l #	74
29) Tetrahydrofuran	7.877	42	498	0.495	ug/l #	42
31) Cyclohexane	8.230	56	4789	Below Cal	#	63
36) 1,1-Dichloropropene	8.230	75	14195	4.778	ug/l #	47
37) Ethyl Acetate	7.577	43	4479	1.348	ug/l #	75
38) Carbon Tetrachloride	8.236	117	16880	5.671	ug/l #	14
42) 1,2-Dichloroethane	8.683	62	970	0.296	ug/l #	73
43) Isopropyl Acetate	8.694	43	211053	35.925	ug/l #	71
48) Methyl methacrylate	9.671	41	4604	1.729	ug/l #	31
51) 4-Methyl-2-Pentanone	10.447	43	36371	10.438	ug/l #	75
53) t-1,3-Dichloropropene	10.724	75	996	0.293	ug/l #	1
54) cis-1,3-Dichloropropene	10.365	75	47190	12.760	ug/l #	74
56) Ethyl methacrylate	10.982	69	1932	0.577	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	5768	1.492	ug/l #	42
59) 2-Hexanone	11.177	43	133030	52.712	ug/l #	19
71) Bromoform	12.853	173	1069	0.624	ug/l #	28
74) N-amyl acetate	12.488	43	1480	0.409	ug/l #	42
76) 1,2,3-Trichloropropane	12.853	75	64659	31.223	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	64659	79.762	ug/l #	15

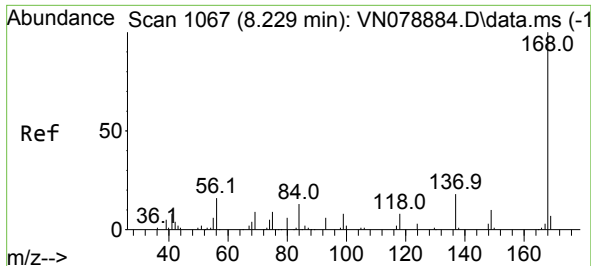
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

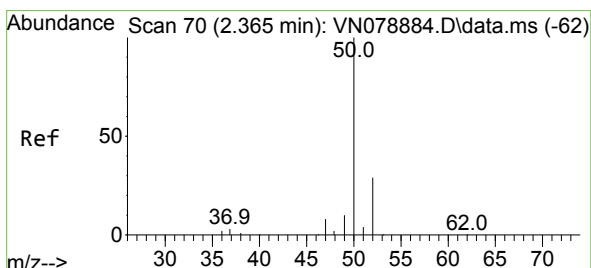
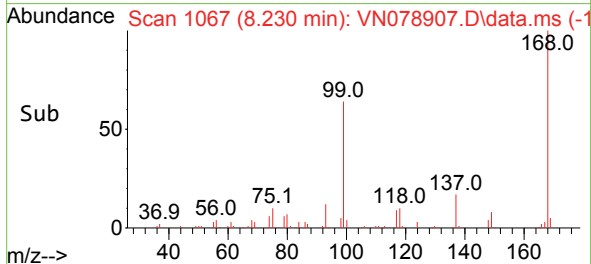
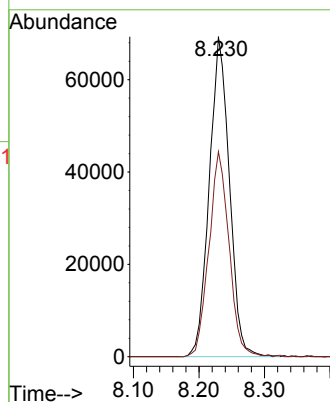
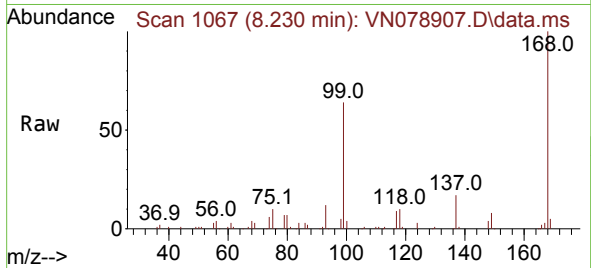




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN078907.D
Acq: 16 Aug 2023 16:54

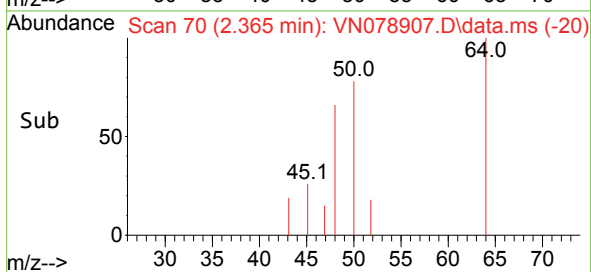
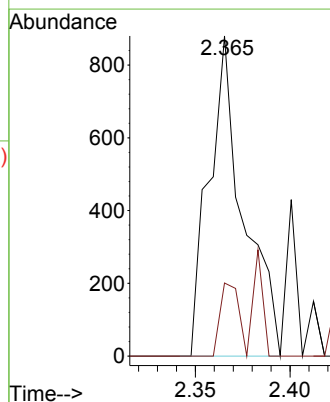
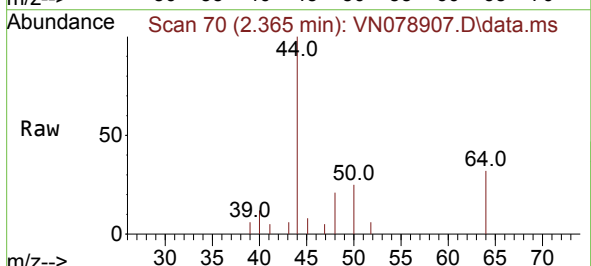
Instrument :
MSVOA_N
ClientSampleId :
TP-16

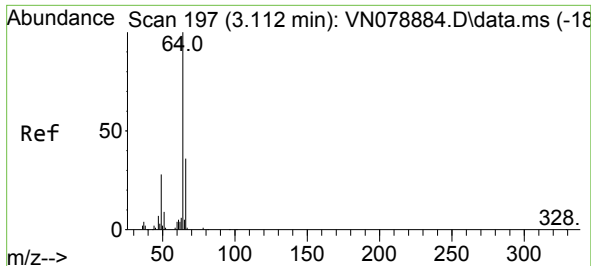
Tgt Ion:168 Resp: 147706
Ion Ratio Lower Upper
168 100
99 64.1 53.0 79.6



#3
Chloromethane
Concen: 0.387 ug/l
RT: 2.365 min Scan# 70
Delta R.T. -0.006 min
Lab File: VN078907.D
Acq: 16 Aug 2023 16:54

Tgt Ion: 50 Resp: 1108
Ion Ratio Lower Upper
50 100
52 22.8 26.5 39.7#

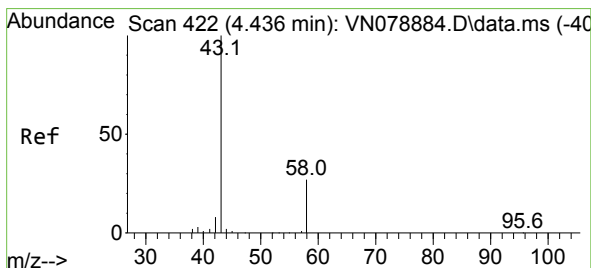
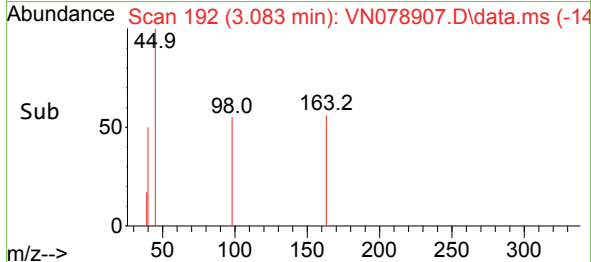
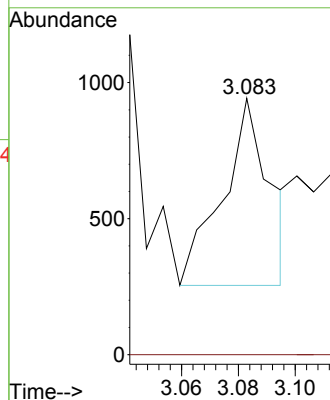
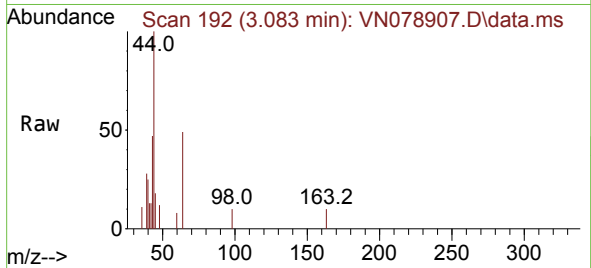




#6
Chloroethane
Concen: 0.451 ug/l
RT: 3.083 min Scan# 197
Delta R.T. -0.035 min
Lab File: VN078907.D
Acq: 16 Aug 2023 16:54

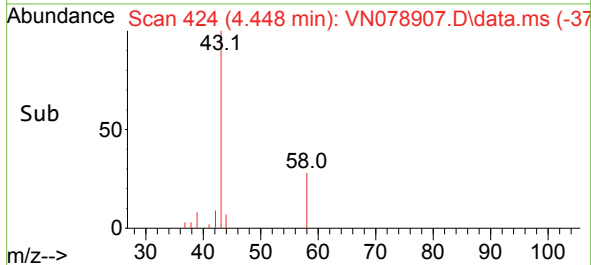
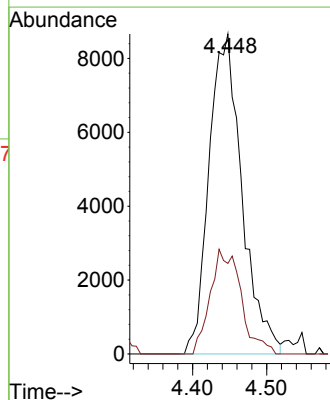
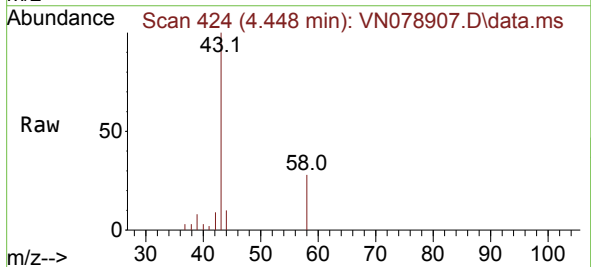
Instrument :
MSVOA_N
ClientSampleId :
TP-16

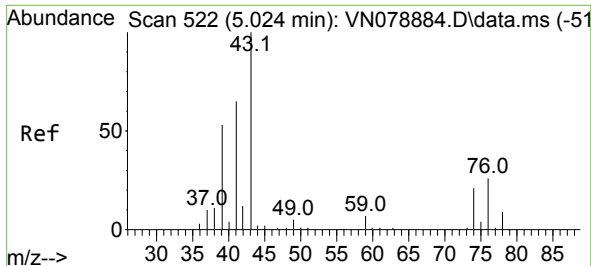
Tgt Ion: 64 Resp: 792
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#16
Acetone
Concen: 28.192 ug/l
RT: 4.448 min Scan# 424
Delta R.T. 0.006 min
Lab File: VN078907.D
Acq: 16 Aug 2023 16:54

Tgt Ion: 43 Resp: 26736
Ion Ratio Lower Upper
43 100
58 28.3 28.0 42.0

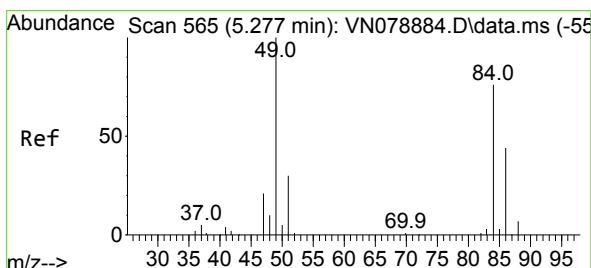
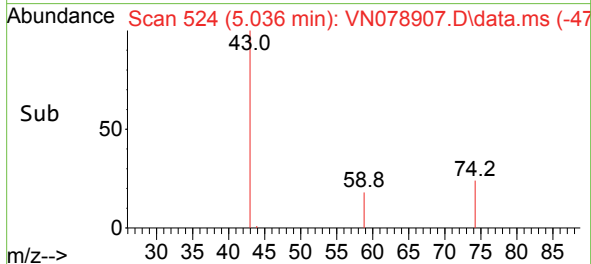
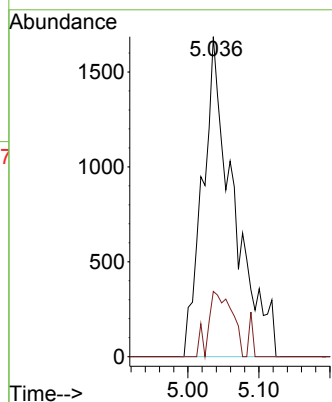
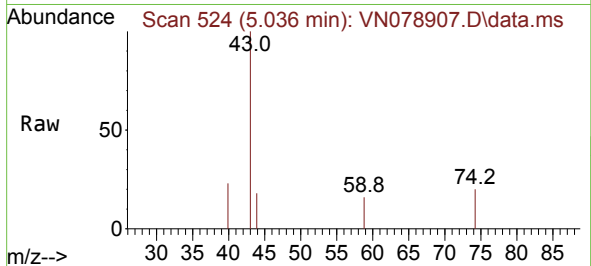




#18
Methyl Acetate
Concen: 1.277 ug/l
RT: 5.036 min Scan# 511
Delta R.T. -0.006 min
Lab File: VN078907.D
Acq: 16 Aug 2023 16:54

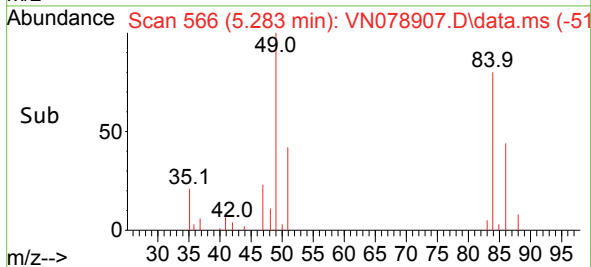
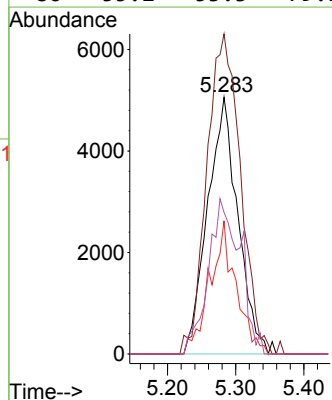
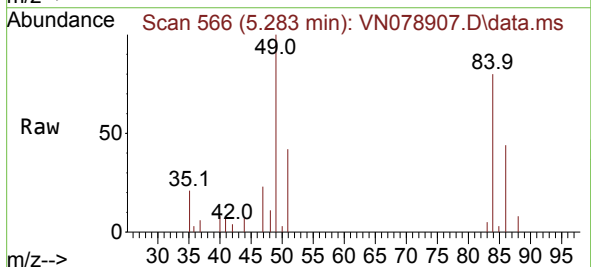
Instrument :
MSVOA_N
ClientSampleId :
TP-16

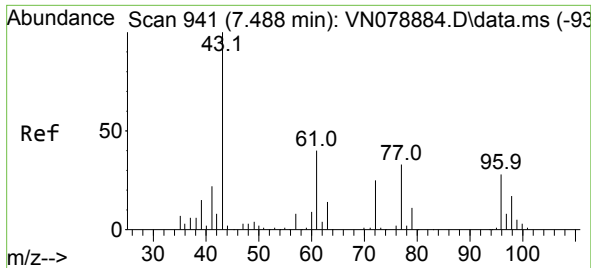
Tgt Ion: 43 Resp: 5118
Ion Ratio Lower Upper
43 100
74 15.5 26.2 39.4#



#20
Methylene Chloride
Concen: 7.762 ug/l
RT: 5.283 min Scan# 566
Delta R.T. -0.000 min
Lab File: VN078907.D
Acq: 16 Aug 2023 16:54

Tgt Ion: 84 Resp: 15687
Ion Ratio Lower Upper
84 100
49 124.7 79.7 119.5#
51 51.9 25.2 37.8#
86 55.2 53.3 79.9

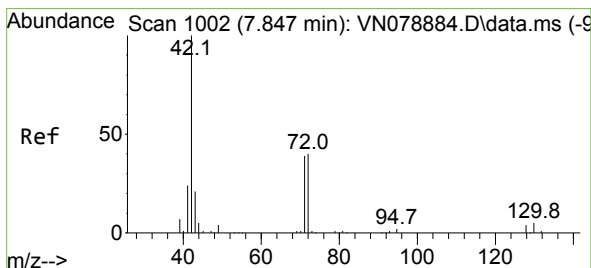
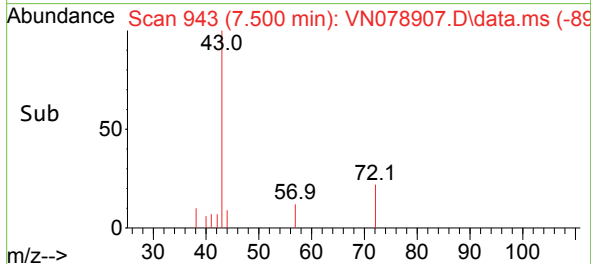
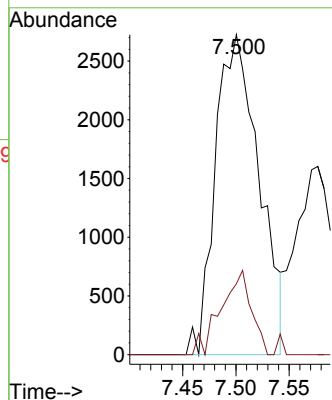
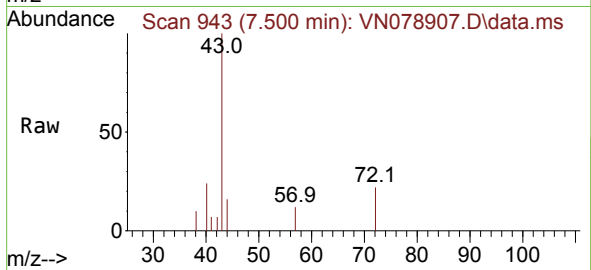




#25
2-Butanone
Concen: 5.098 ug/l
RT: 7.500 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN078907.D
Acq: 16 Aug 2023 16:54

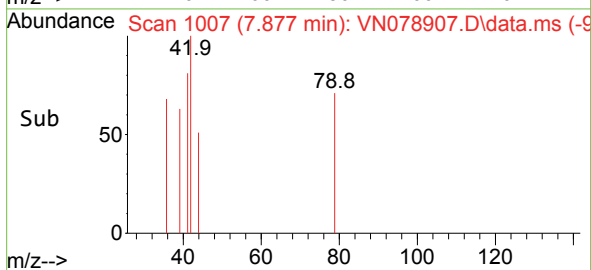
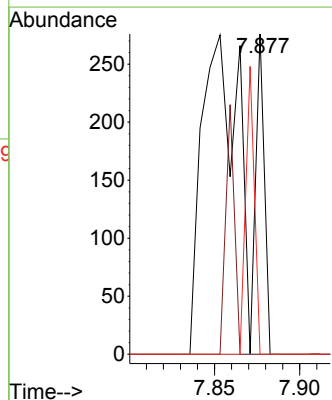
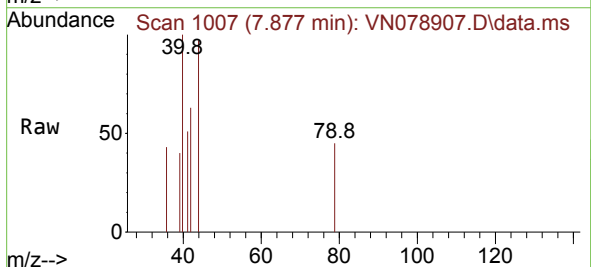
Instrument :
MSVOA_N
ClientSampleId :
TP-16

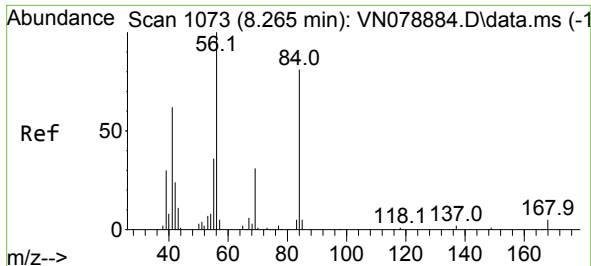
Tgt Ion: 43 Resp: 7752
Ion Ratio Lower Upper
43 100
72 22.1 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.495 ug/l
RT: 7.877 min Scan# 1007
Delta R.T. 0.030 min
Lab File: VN078907.D
Acq: 16 Aug 2023 16:54

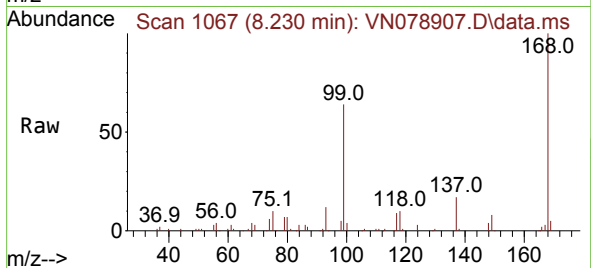
Tgt Ion: 42 Resp: 498
Ion Ratio Lower Upper
42 100
72 15.3 49.8 74.6#
71 17.5 47.4 71.2#



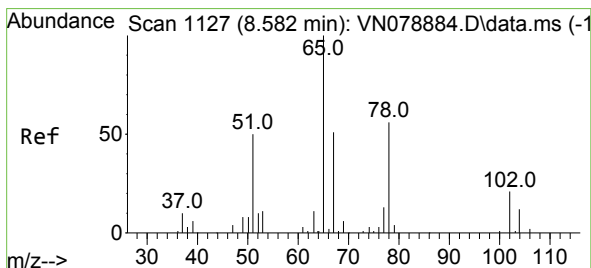
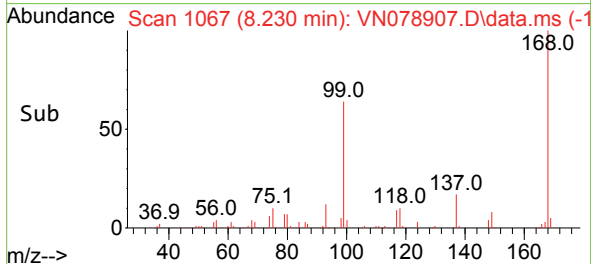
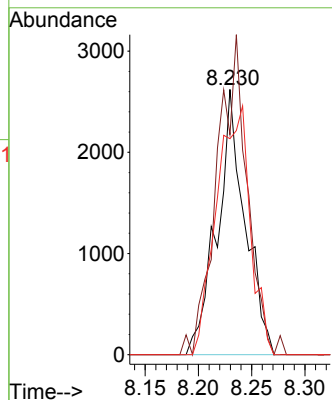


#31
Cyclohexane
Concen: Below Cal
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078907.D
Acq: 16 Aug 2023 16:54

Instrument :
MSVOA_N
ClientSampleId :
TP-16

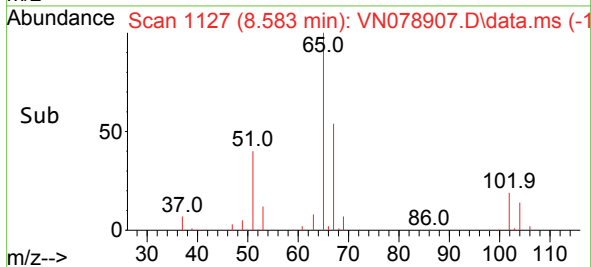
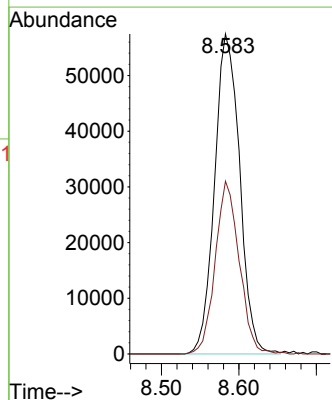
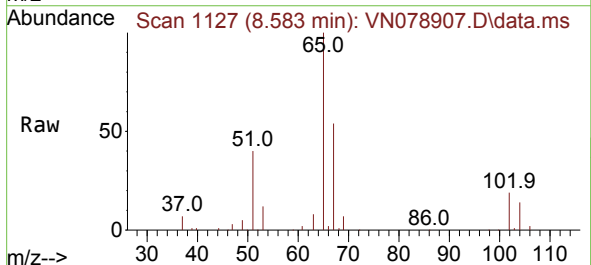


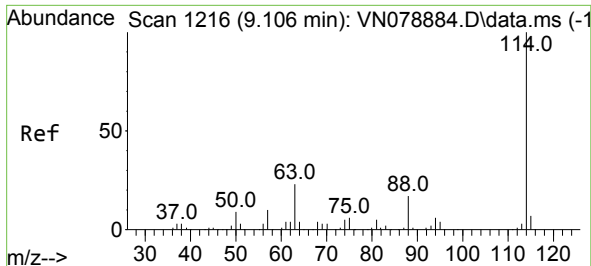
Tgt Ion: 56 Resp: 4789
Ion Ratio Lower Upper
56 100
69 82.9 26.8 40.2#
84 81.4 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 56.308 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.000 min
Lab File: VN078907.D
Acq: 16 Aug 2023 16:54

Tgt Ion: 65 Resp: 129421
Ion Ratio Lower Upper
65 100
67 51.7 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN078907.D

Acq: 16 Aug 2023 16:54

Instrument :

MSVOA_N

ClientSampleId :

TP-16

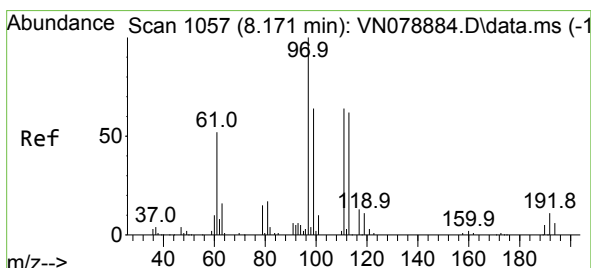
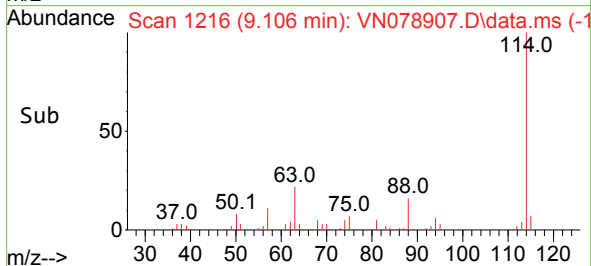
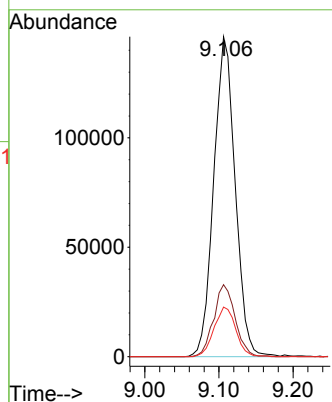
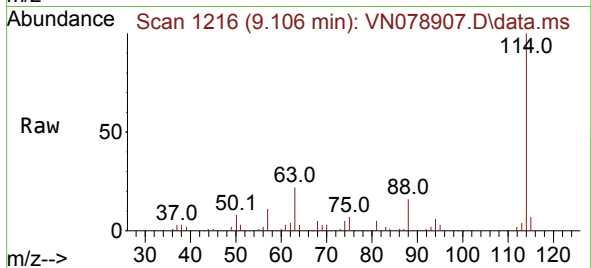
Tgt Ion:114 Resp: 293377

Ion Ratio Lower Upper

114 100

63 22.5 0.0 36.4

88 15.5 0.0 30.6



#35

Dibromofluoromethane

Concen: 51.562 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN078907.D

Acq: 16 Aug 2023 16:54

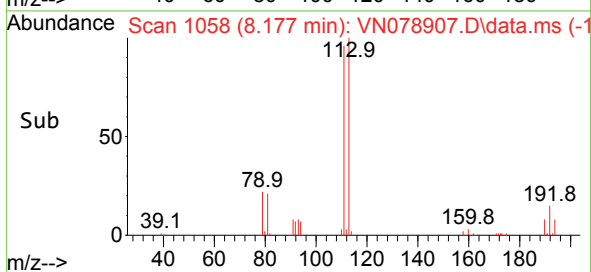
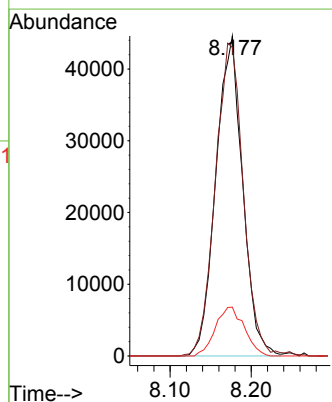
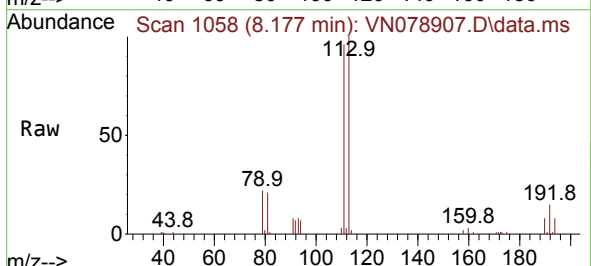
Tgt Ion:113 Resp: 101828

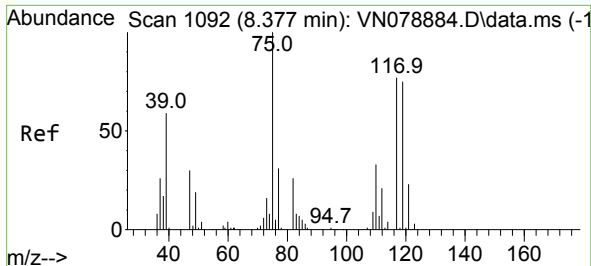
Ion Ratio Lower Upper

113 100

111 102.9 82.6 123.8

192 16.6 12.7 19.1

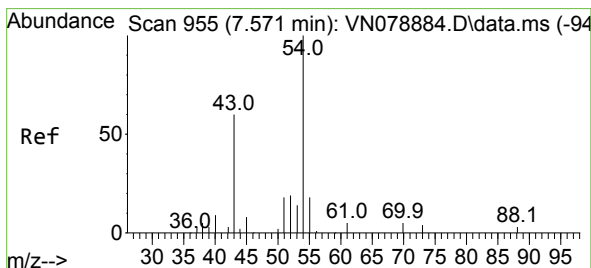
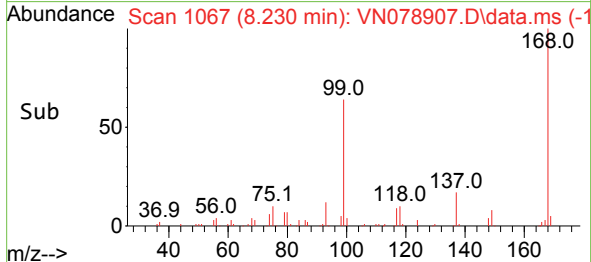
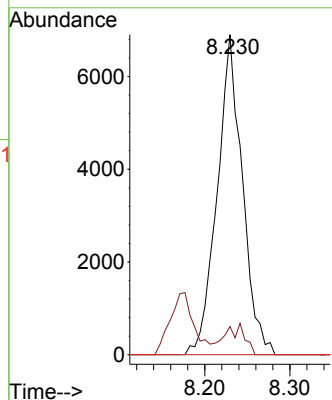
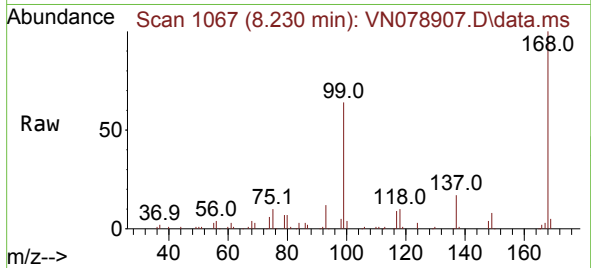




#36
 1,1-Dichloropropene
 Concen: 4.778 ug/l
 RT: 8.230 min Scan# 1092
 Delta R.T. -0.147 min
 Lab File: VN078907.D
 Acq: 16 Aug 2023 16:54

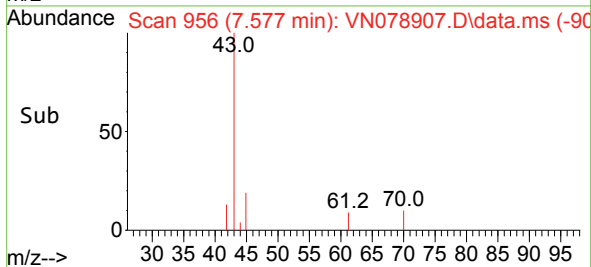
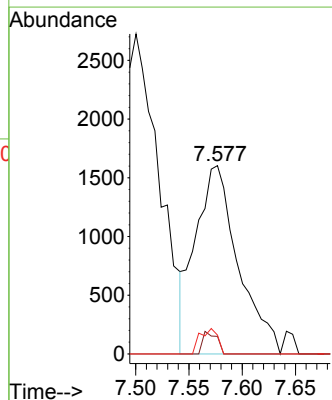
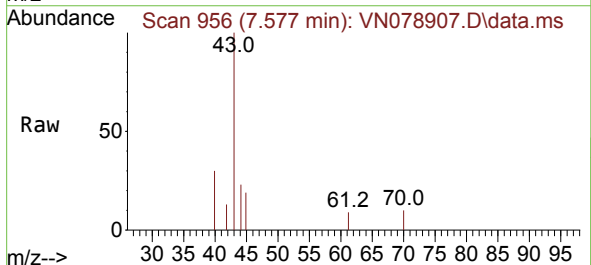
Instrument :
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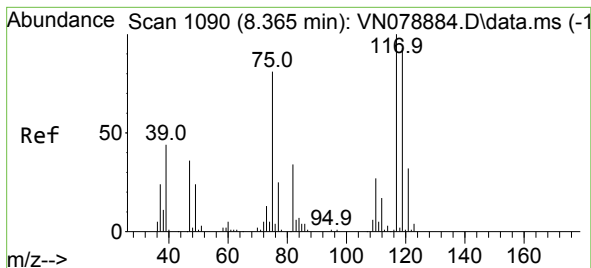
Tgt Ion: 75 Resp: 14195
 Ion Ratio Lower Upper
 75 100
 110 8.0 19.1 57.3#
 77 0.0 25.0 37.4#



#37
 Ethyl Acetate
 Concen: 1.348 ug/l
 RT: 7.577 min Scan# 956
 Delta R.T. 0.006 min
 Lab File: VN078907.D
 Acq: 16 Aug 2023 16:54

Tgt Ion: 43 Resp: 4479
 Ion Ratio Lower Upper
 43 100
 61 3.9 13.2 19.8#
 70 5.6 11.3 16.9#





#38

Carbon Tetrachloride

Concen: 5.671 ug/l

RT: 8.236 min Scan# 1

Delta R.T. -0.135 min

Lab File: VN078907.D

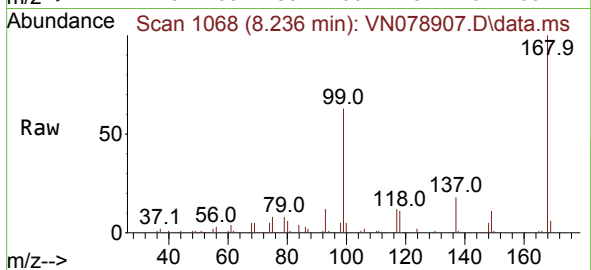
Acq: 16 Aug 2023 16:54

Instrument :

MSVOA_N

ClientSampleId :

TP-16



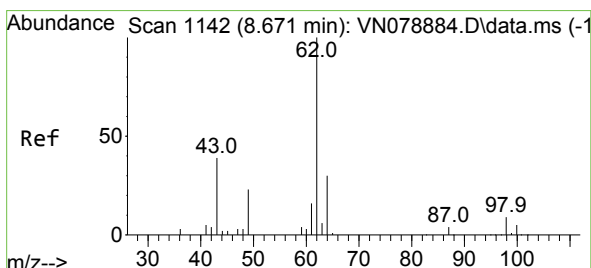
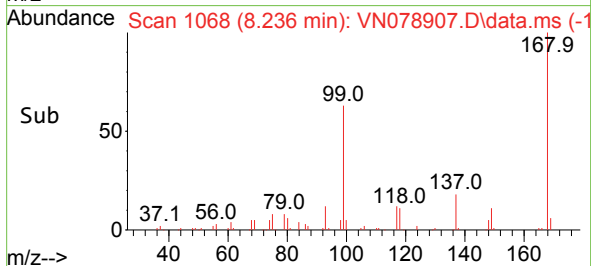
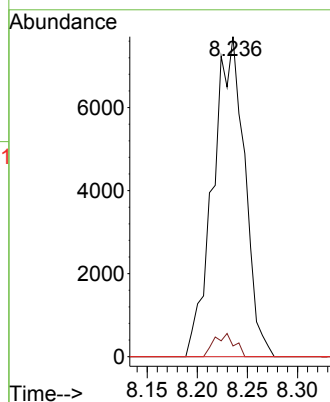
Tgt Ion:117 Resp: 16880

Ion Ratio Lower Upper

117 100

119 3.3 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 0.296 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.006 min

Lab File: VN078907.D

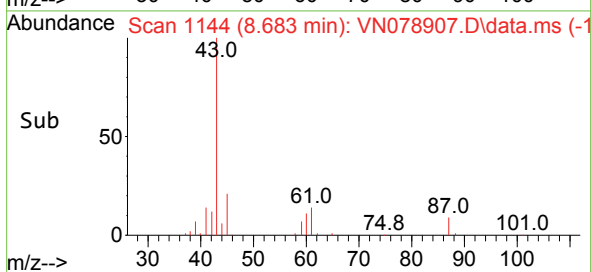
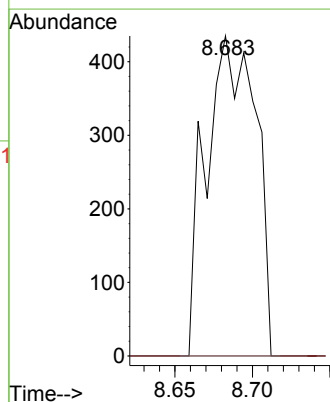
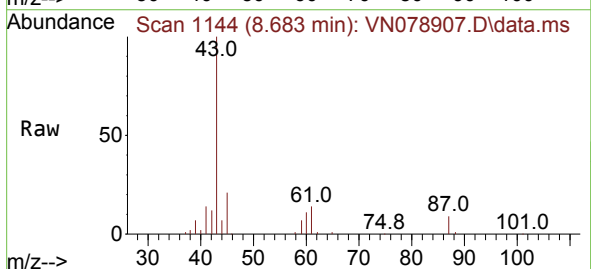
Acq: 16 Aug 2023 16:54

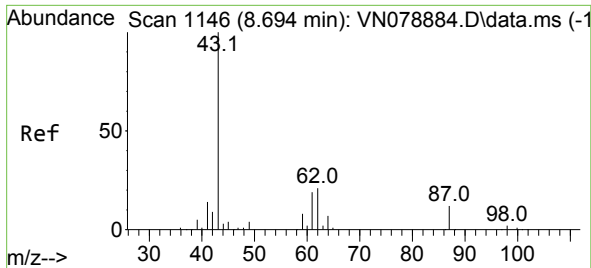
Tgt Ion: 62 Resp: 970

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8

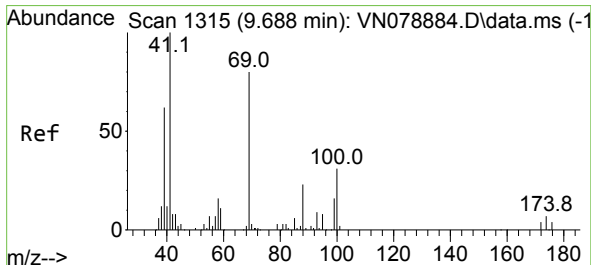
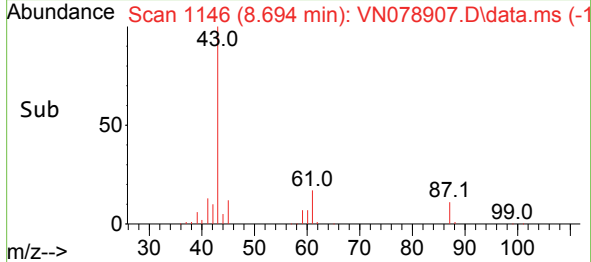
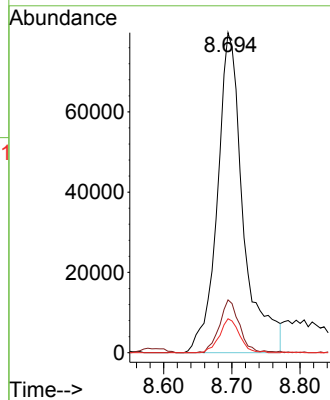
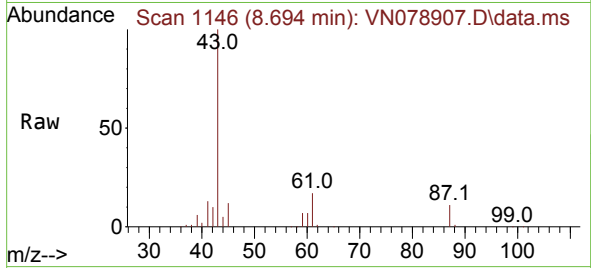




#43
Isopropyl Acetate
Concen: 35.925 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN078907.D
Acq: 16 Aug 2023 16:54

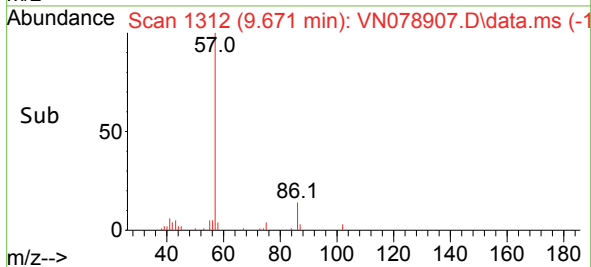
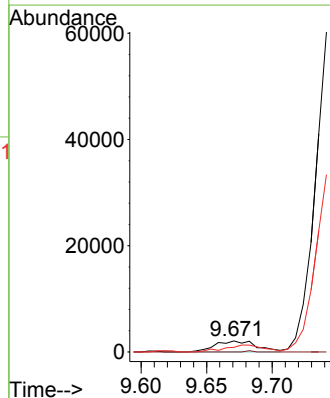
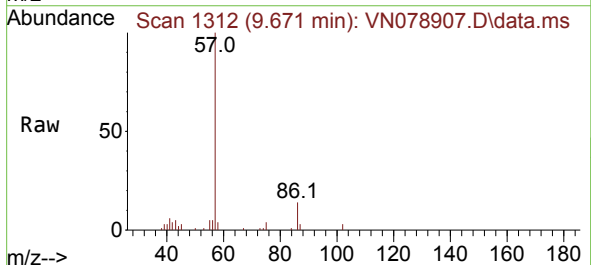
Instrument :
MSVOA_N
ClientSampleId :
TP-16

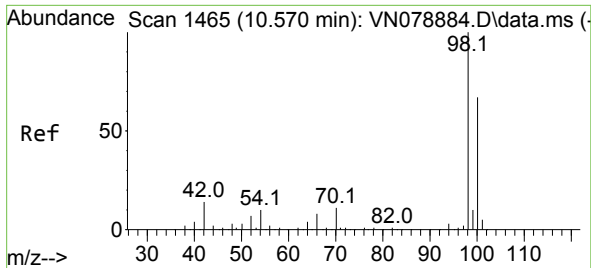
Tgt Ion: 43 Resp: 211053
Ion Ratio Lower Upper
43 100
61 12.8 24.7 37.1#
87 8.1 14.6 21.8#



#48
Methyl methacrylate
Concen: 1.729 ug/l
RT: 9.671 min Scan# 1312
Delta R.T. -0.017 min
Lab File: VN078907.D
Acq: 16 Aug 2023 16:54

Tgt Ion: 41 Resp: 4604
Ion Ratio Lower Upper
41 100
69 1.9 90.4 135.6#
39 58.3 54.6 81.8

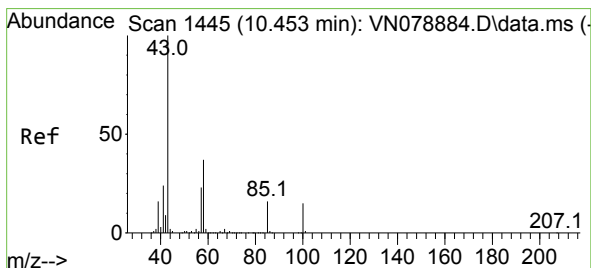
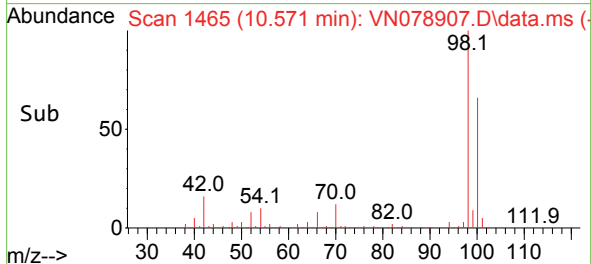
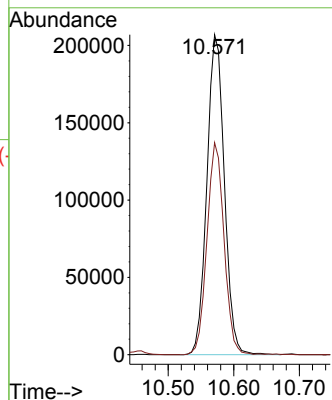
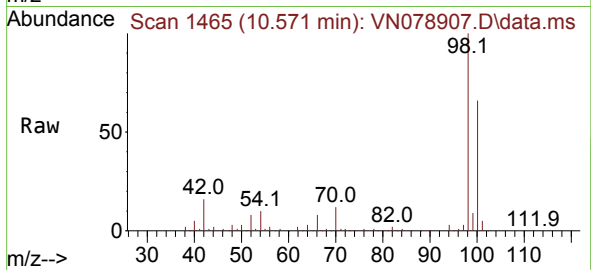




#50
Toluene-d8
Concen: 52.293 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078907.D
Acq: 16 Aug 2023 16:54

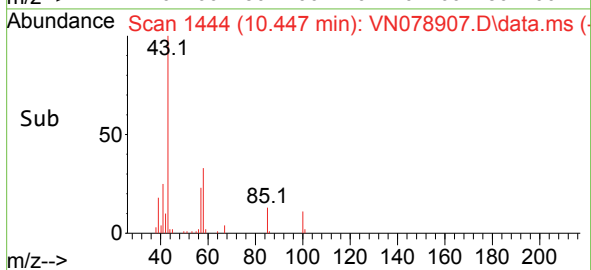
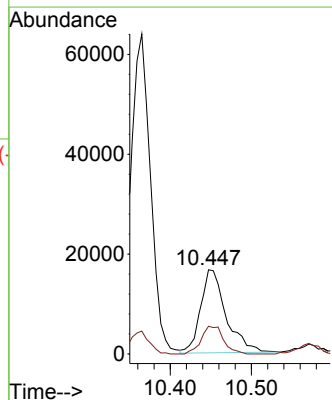
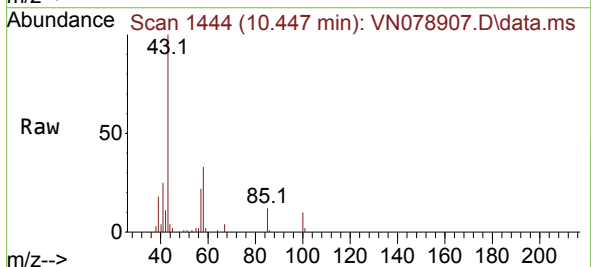
Instrument :
MSVOA_N
ClientSampleId :
TP-16

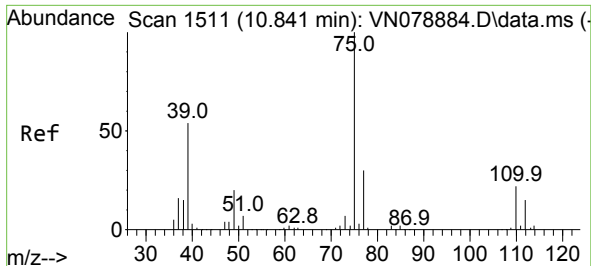
Tgt Ion: 98 Resp: 383459
Ion Ratio Lower Upper
98 100
100 64.7 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 10.438 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.006 min
Lab File: VN078907.D
Acq: 16 Aug 2023 16:54

Tgt Ion: 43 Resp: 36371
Ion Ratio Lower Upper
43 100
58 29.2 36.6 54.8#

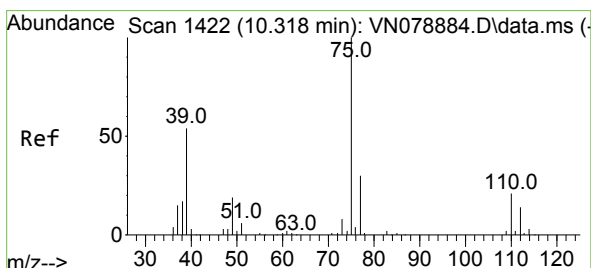
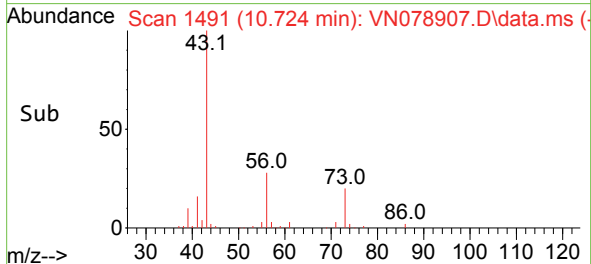
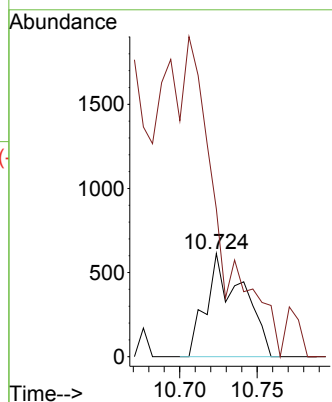
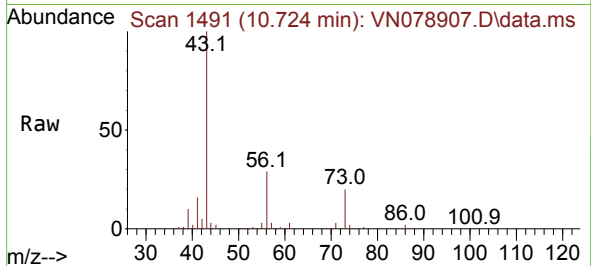




#53
t-1,3-Dichloropropene
Concen: 0.293 ug/l
RT: 10.724 min Scan# 1491
Delta R.T. -0.117 min
Lab File: VN078907.D
Acq: 16 Aug 2023 16:54

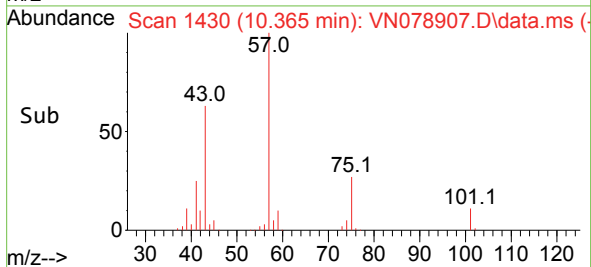
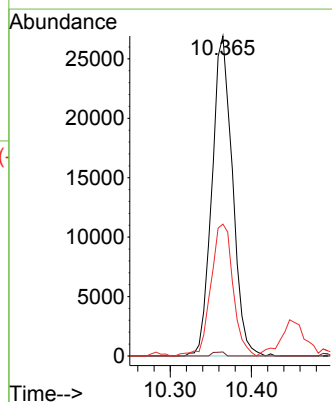
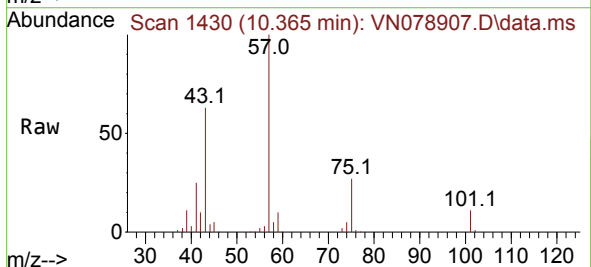
Instrument :
MSVOA_N
ClientSampleId :
TP-16

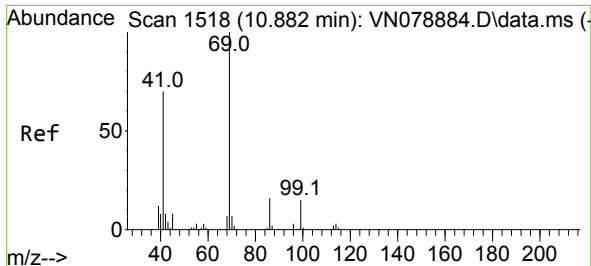
Tgt Ion: 75 Resp: 996
Ion Ratio Lower Upper
75 100
77 143.2 25.4 38.0#



#54
cis-1,3-Dichloropropene
Concen: 12.760 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN078907.D
Acq: 16 Aug 2023 16:54

Tgt Ion: 75 Resp: 47190
Ion Ratio Lower Upper
75 100
77 1.2 26.1 39.1#
39 40.6 31.6 47.4

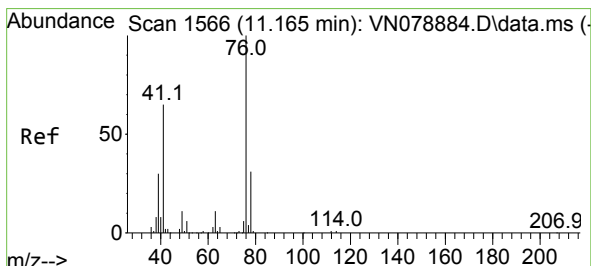
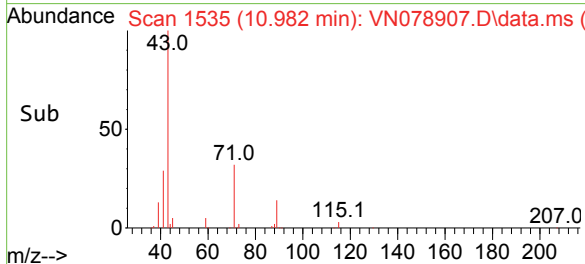
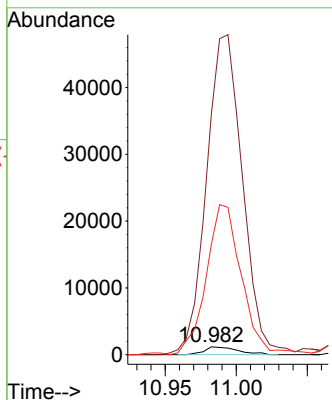
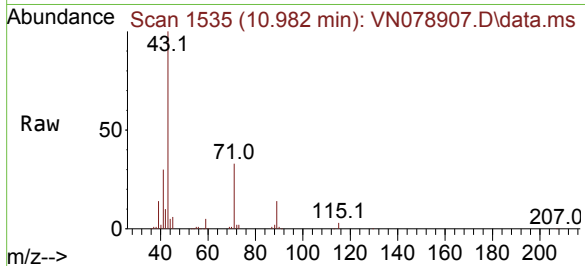




#56
Ethyl methacrylate
Concen: 0.577 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.105 min
Lab File: VN078907.D
Acq: 16 Aug 2023 16:54

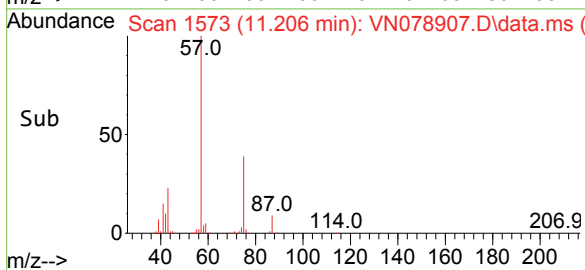
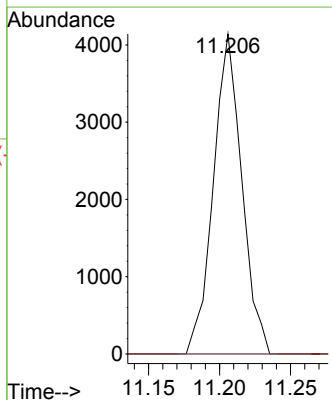
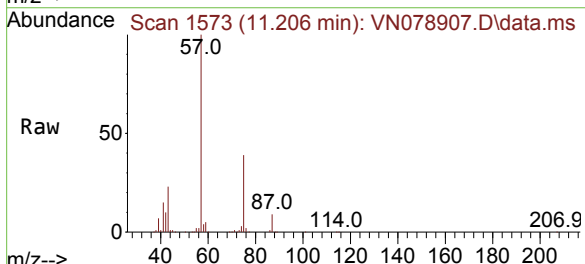
Instrument :
MSVOA_N
ClientSampleId :
TP-16

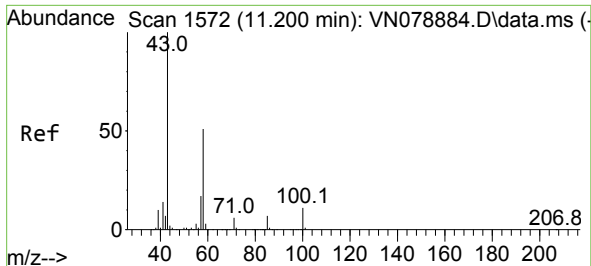
Tgt Ion: 69 Resp: 1932
Ion Ratio Lower Upper
69 100
41 4372.6 39.6 59.4#
39 2009.8 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.492 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.041 min
Lab File: VN078907.D
Acq: 16 Aug 2023 16:54

Tgt Ion: 76 Resp: 5768
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

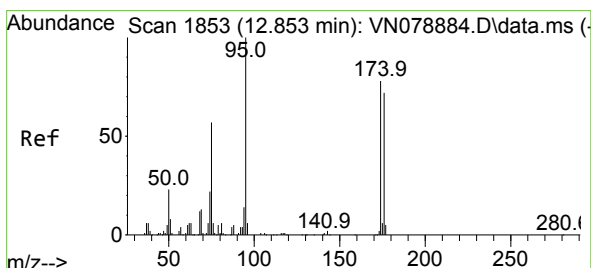
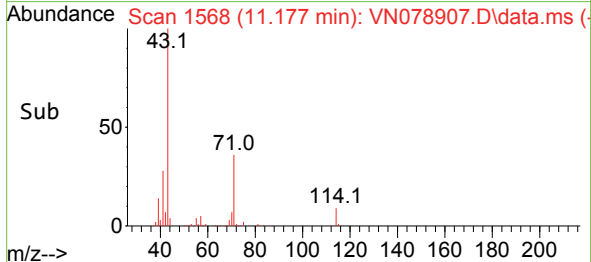
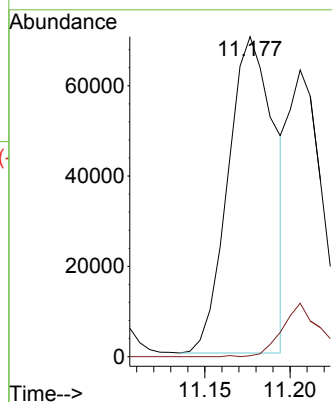
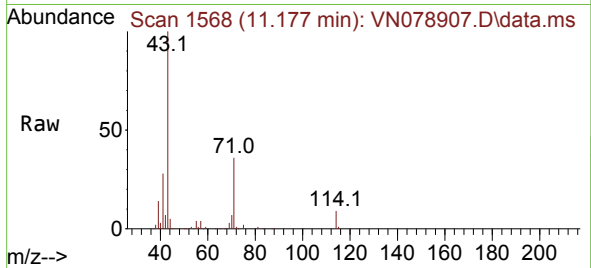




#59
2-Hexanone
Concen: 52.712 ug/l
RT: 11.177 min Scan# 1117
Delta R.T. -0.023 min
Lab File: VN078907.D
Acq: 16 Aug 2023 16:54

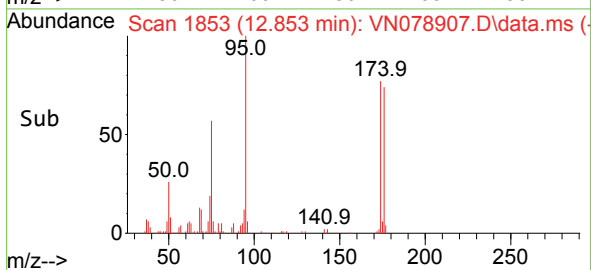
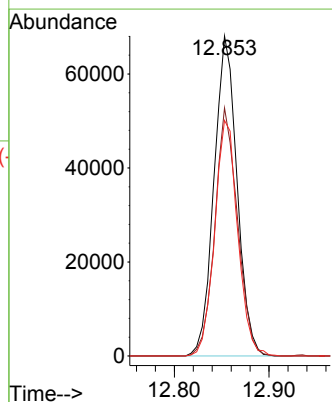
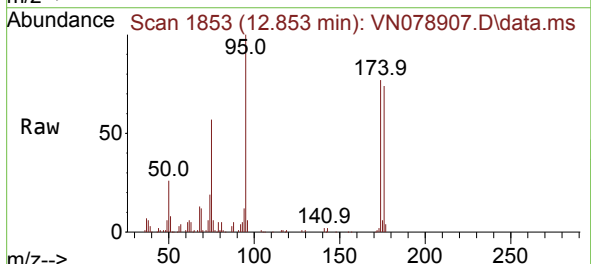
Instrument :
MSVOA_N
ClientSampleId :
TP-16

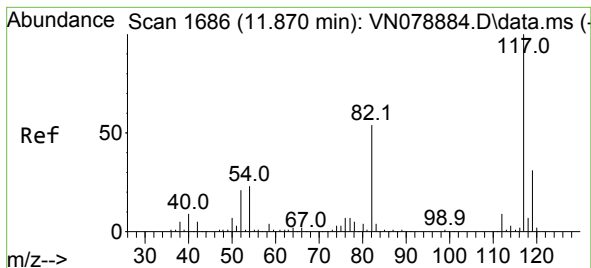
Tgt Ion: 43 Resp: 133030
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 47.963 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078907.D
Acq: 16 Aug 2023 16:54

Tgt Ion: 95 Resp: 114958
Ion Ratio Lower Upper
95 100
174 76.3 0.0 143.8
176 73.7 0.0 135.8

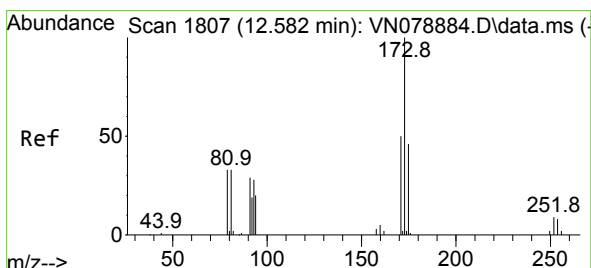
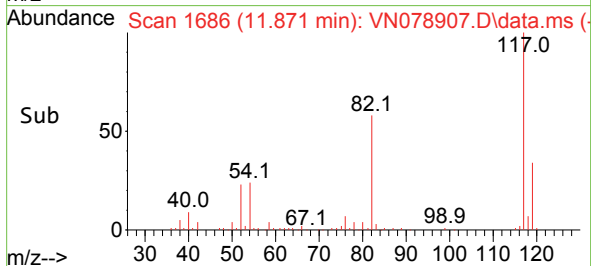
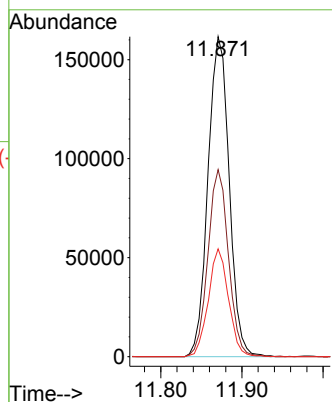
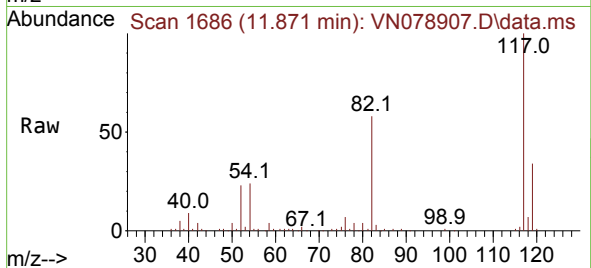




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN078907.D
Acq: 16 Aug 2023 16:54

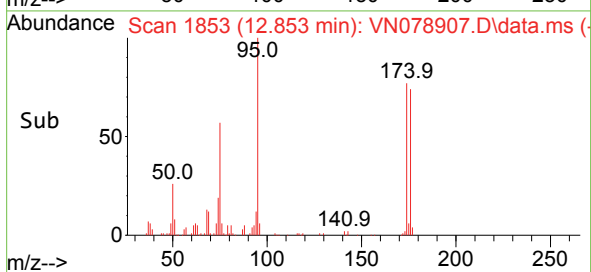
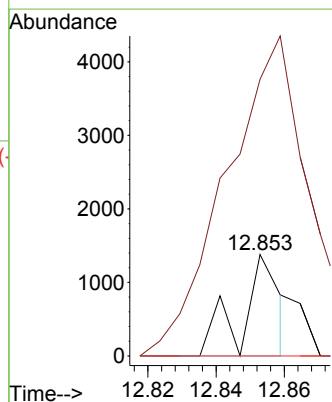
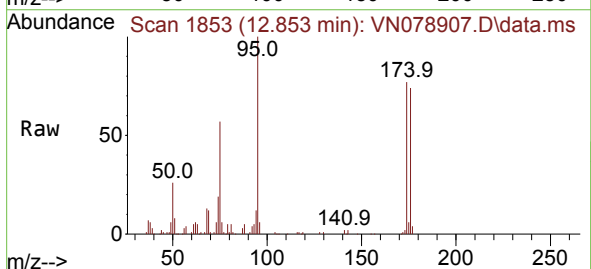
Instrument :
MSVOA_N
ClientSampleId :
TP-16

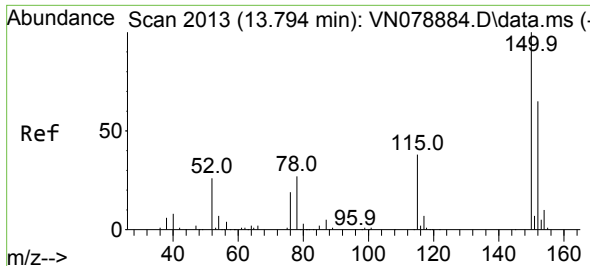
Tgt Ion:117 Resp: 293102
Ion Ratio Lower Upper
117 100
82 58.4 44.0 66.0
119 33.7 25.6 38.4



#71
Bromoform
Concen: 0.624 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.271 min
Lab File: VN078907.D
Acq: 16 Aug 2023 16:54

Tgt Ion:173 Resp: 1069
Ion Ratio Lower Upper
173 100
175 0.0 24.3 73.0#
254 0.0 0.0 0.0

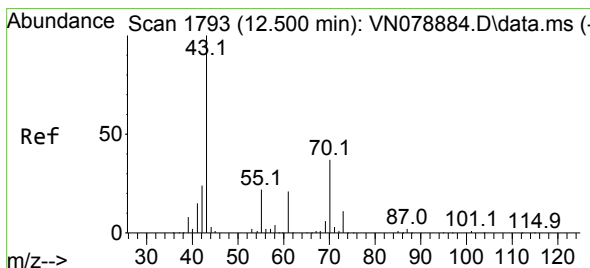
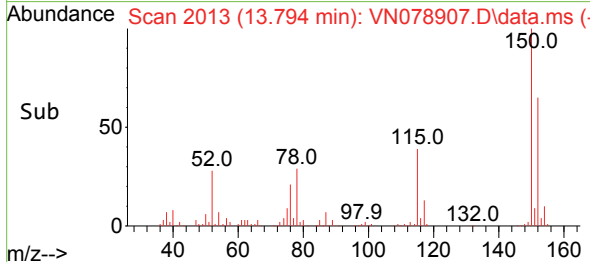
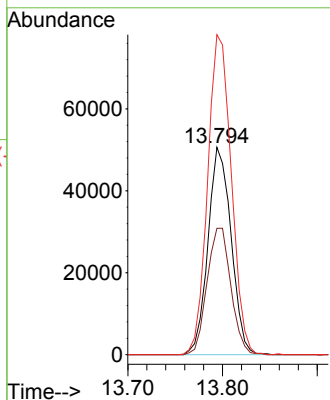
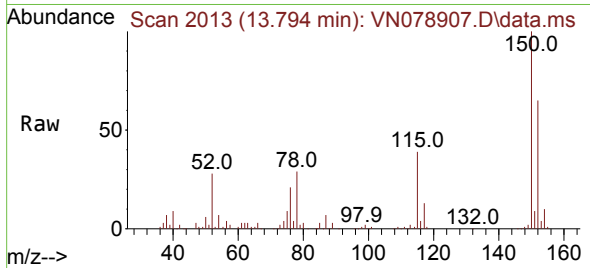




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN078907.D
Acq: 16 Aug 2023 16:54

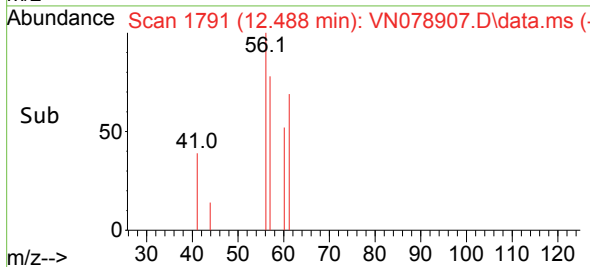
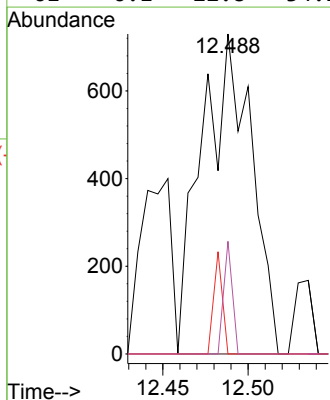
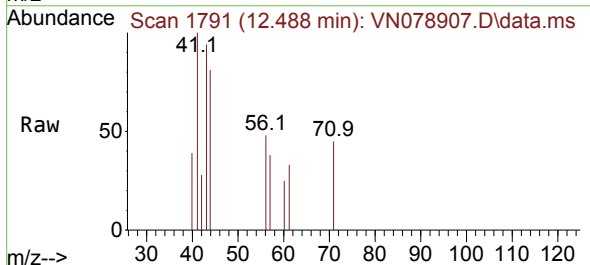
Instrument :
MSVOA_N
ClientSampleId :
TP-16

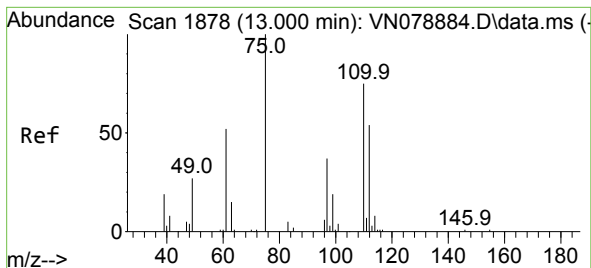
Tgt Ion:152 Resp: 85945
Ion Ratio Lower Upper
152 100
115 62.7 32.3 96.8
150 157.6 0.0 355.8



#74
N-ethyl acetate
Concen: 0.409 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.012 min
Lab File: VN078907.D
Acq: 16 Aug 2023 16:54

Tgt Ion: 43 Resp: 1480
Ion Ratio Lower Upper
43 100
70 0.0 43.4 65.2#
55 5.5 21.4 32.0#
61 6.1 22.8 34.2#





#76

1,2,3-Trichloropropane

Concen: 31.223 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078907.D

Acq: 16 Aug 2023 16:54

Instrument :

MSVOA_N

ClientSampleId :

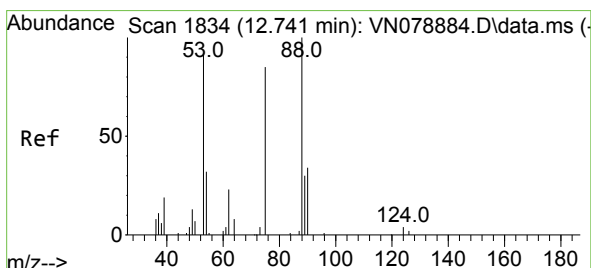
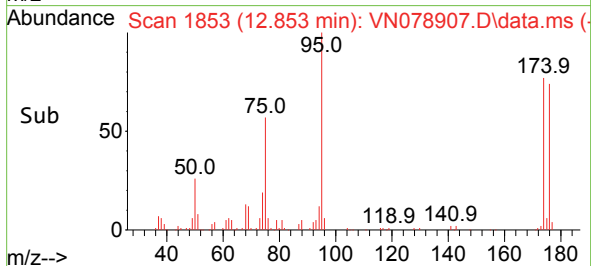
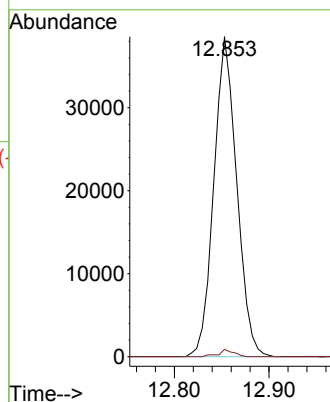
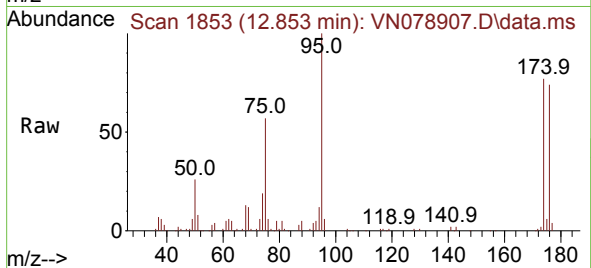
TP-16

Tgt Ion: 75 Resp: 64659

Ion Ratio Lower Upper

75 100

77 1.5 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 79.762 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN078907.D

Acq: 16 Aug 2023 16:54

Tgt Ion: 75 Resp: 64659

Ion Ratio Lower Upper

75 100

53 0.2 67.4 101.2#

89 0.0 38.8 58.2#

