

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042423\
 Data File : VN077458.D
 Acq On : 25 Apr 2023 09:18
 Operator : JC\MD
 Sample : 02423-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SPD-1WC-23-04-18

Quant Time: Apr 25 09:39:18 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N042423W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 25 02:50:59 2023
 Response via : Initial Calibration

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

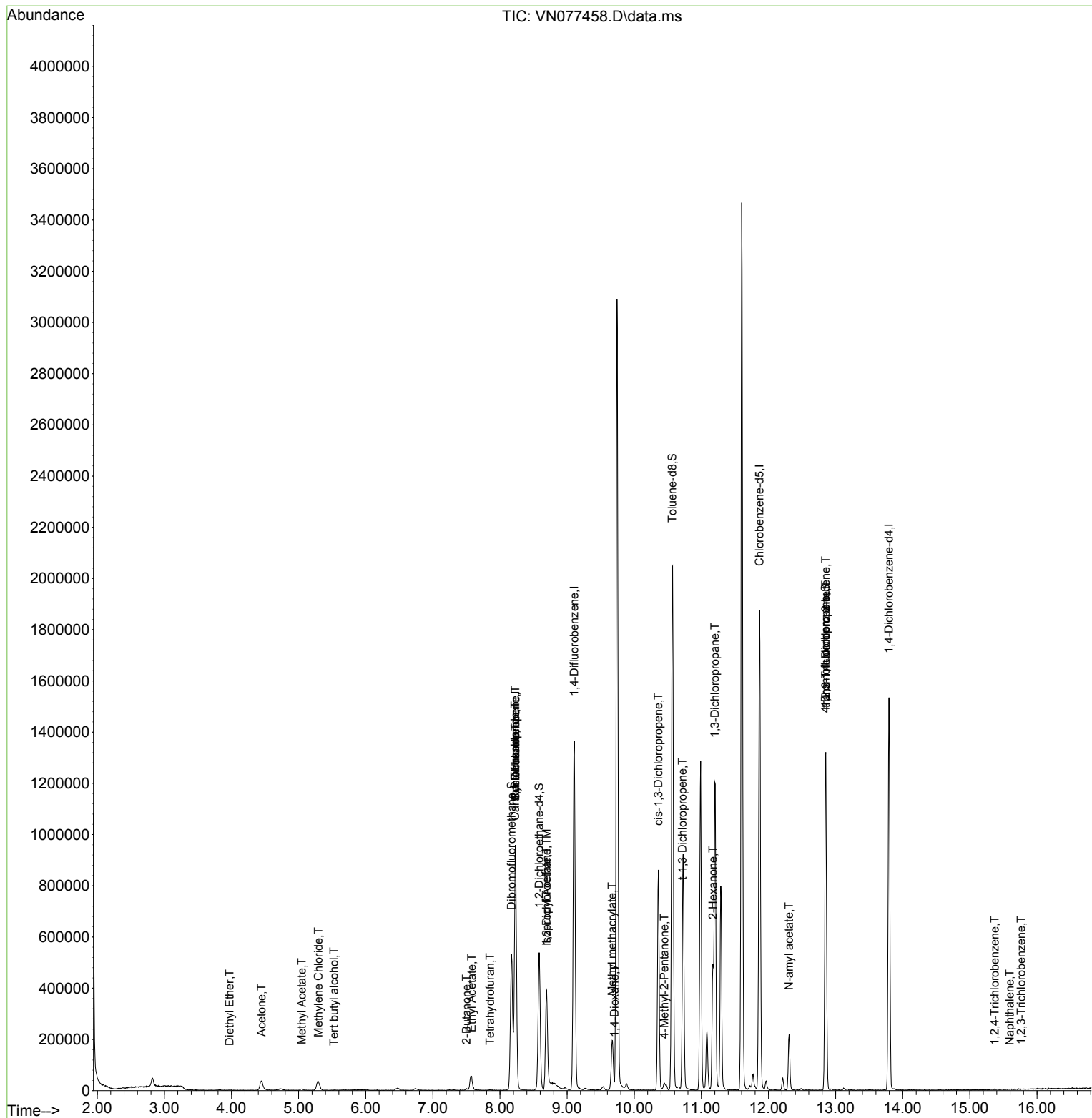
Internal Standards						
1) Pentafluorobenzene	8.231	168	665189	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	1246737	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	1144756	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	416342	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	428530	49.370	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	98.740%
35) Dibromofluoromethane	8.172	113	377450	50.371	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	100.740%
50) Toluene-d8	10.566	98	1530672	53.298	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	106.600%
62) 4-Bromofluorobenzene	12.848	95	488627	52.003	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	104.000%
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.972	74	975	0.206	ug/l	89
11) Tert butyl alcohol	5.525	59	431	0.309	ug/l #	1
16) Acetone	4.449	43	72890	26.396	ug/l	98
18) Methyl Acetate	5.049	43	8560	0.803	ug/l	89
20) Methylene Chloride	5.296	84	30206	3.449	ug/l #	91
25) 2-Butanone	7.501	43	6963	1.778	ug/l	96
29) Tetrahydrofuran	7.854	42	1172	0.478	ug/l	86
31) Cyclohexane	8.231	56	15074	1.226	ug/l #	10
36) 1,1-Dichloropropene	8.231	75	58633	5.416	ug/l #	48
37) Ethyl Acetate	7.578	43	84508	10.273	ug/l	98
38) Carbon Tetrachloride	8.225	117	74197	6.212	ug/l #	16
42) 1,2-Dichloroethane	8.695	62	3200	0.283	ug/l #	73
43) Isopropyl Acetate	8.695	43	435948	30.632	ug/l #	89
48) Methyl methacrylate	9.672	41	9640	1.488	ug/l #	35
49) 1,4-Dioxane	9.707	88	100	0.615	ug/l #	30
51) 4-Methyl-2-Pentanone	10.448	43	15507	1.858	ug/l	99
53) t-1,3-Dichloropropene	10.719	75	2543	0.207	ug/l #	84
54) cis-1,3-Dichloropropene	10.360	75	179402	13.424	ug/l #	62
57) 1,3-Dichloropropane	11.201	76	15554	1.124	ug/l #	42
59) 2-Hexanone	11.172	43	492903	81.234	ug/l #	19
74) N-amyl acetate	12.307	43	66003	5.770	ug/l #	46
76) 1,2,3-Trichloropropane	12.854	75	264849	27.356	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	264849	77.285	ug/l #	15
93) 1,2,4-Trichlorobenzene	15.371	180	75	0.822	ug/l #	1
95) Naphthalene	15.595	128	637	1.198	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.765	180	83	0.503	ug/l #	18

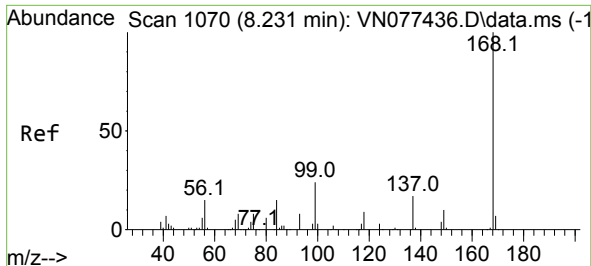
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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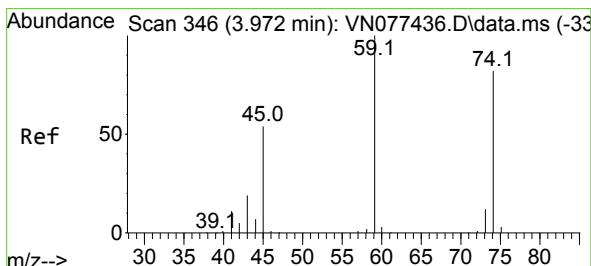
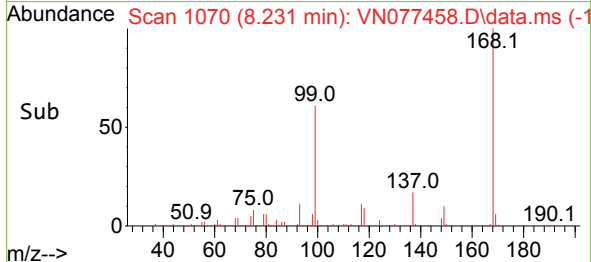
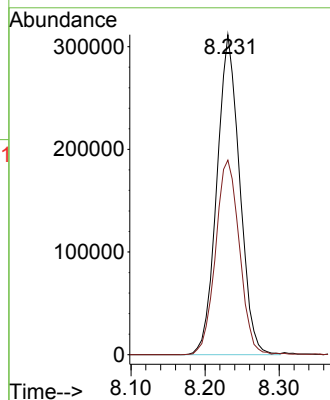
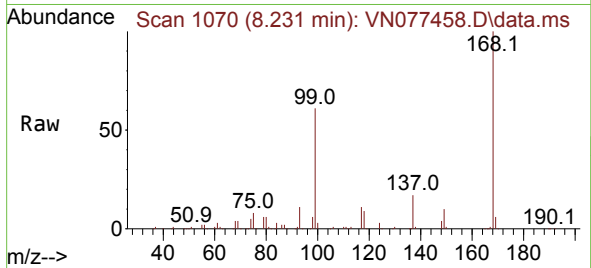




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN077458.D
Acq: 25 Apr 2023 09:18

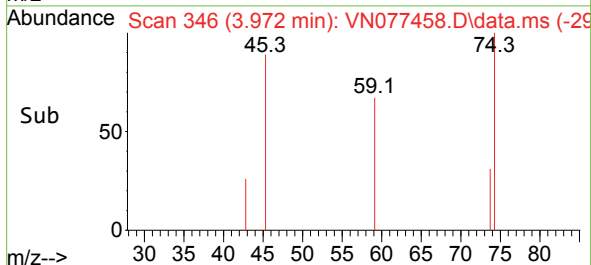
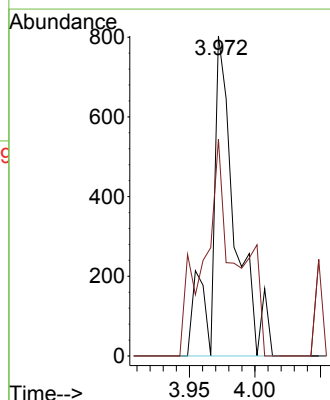
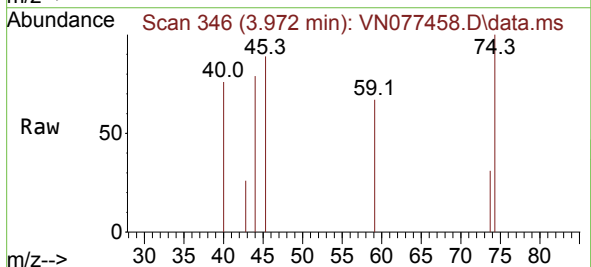
Instrument :
MSVOA_N
ClientSampleId :
SPD-1WC-23-04-18

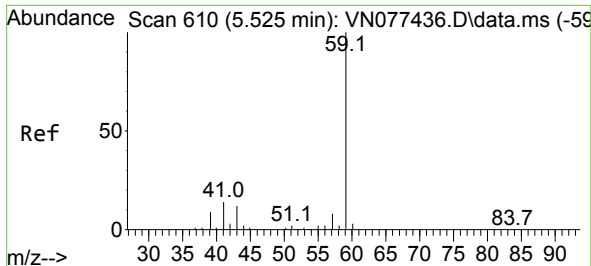
Tgt Ion:168 Resp: 665189
Ion Ratio Lower Upper
168 100
99 60.8 53.0 79.6



#8
Diethyl Ether
Concen: 0.206 ug/l
RT: 3.972 min Scan# 346
Delta R.T. 0.000 min
Lab File: VN077458.D
Acq: 25 Apr 2023 09:18

Tgt Ion: 74 Resp: 975
Ion Ratio Lower Upper
74 100
45 77.8 34.4 103.3





#11

Tert butyl alcohol

Concen: 0.309 ug/l

RT: 5.525 min Scan# 610

Delta R.T. 0.000 min

Lab File: VN077458.D

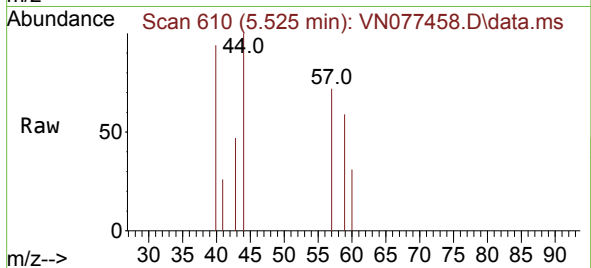
Acq: 25 Apr 2023 09:18

Instrument :

MSVOA_N

ClientSampleId :

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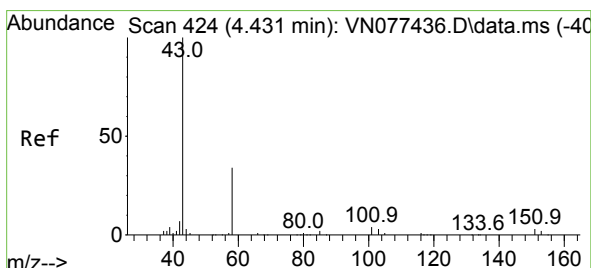
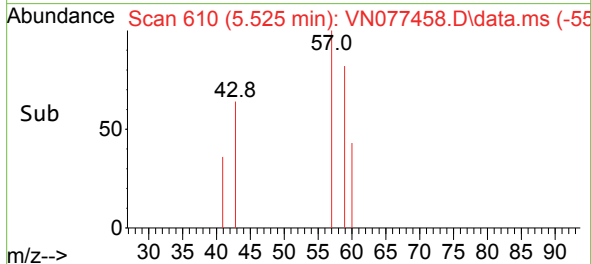
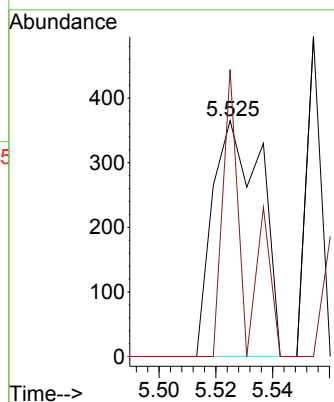


Tgt Ion: 59 Resp: 431

Ion Ratio Lower Upper

59 100

57 55.2 8.2 12.4#



#16

Acetone

Concen: 26.396 ug/l

RT: 4.449 min Scan# 427

Delta R.T. 0.018 min

Lab File: VN077458.D

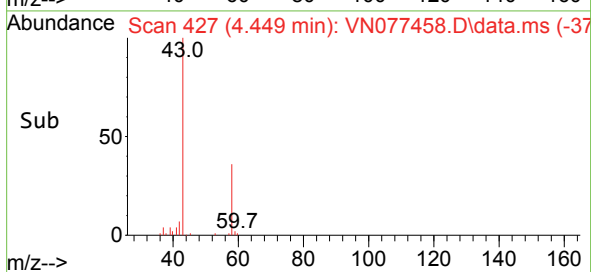
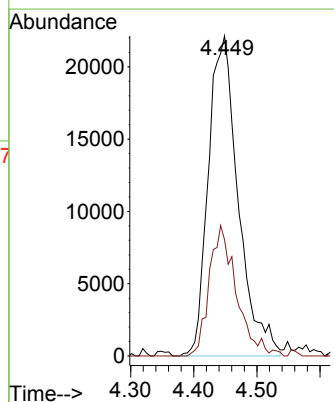
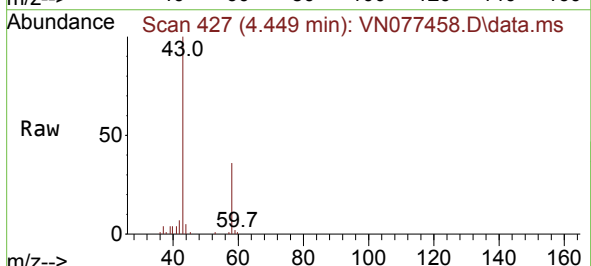
Acq: 25 Apr 2023 09:18

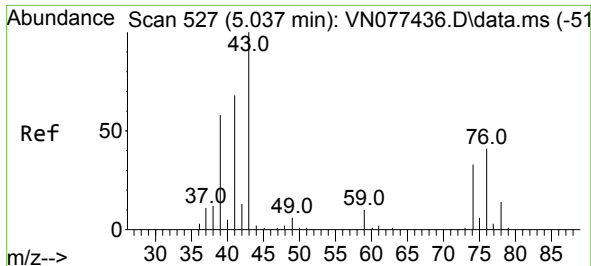
Tgt Ion: 43 Resp: 72890

Ion Ratio Lower Upper

43 100

58 36.4 28.0 42.0

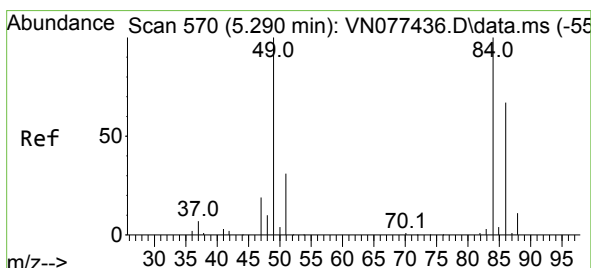
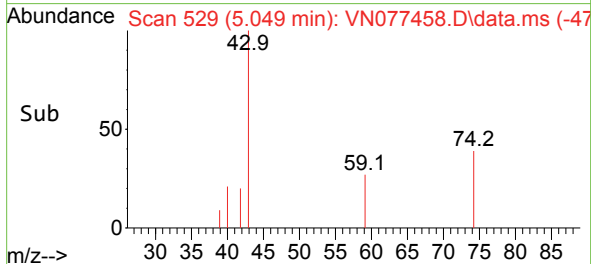
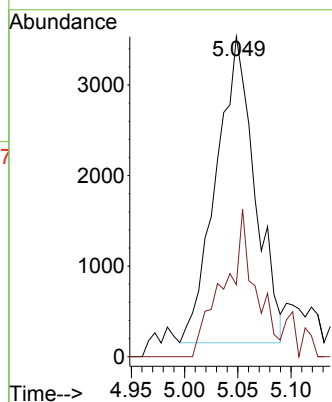
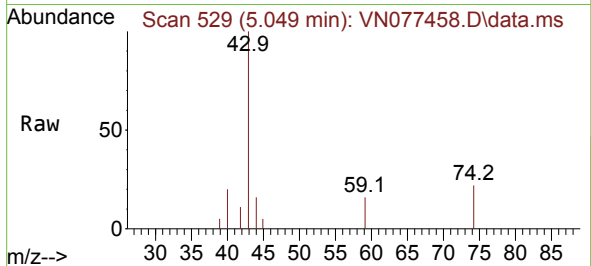




#18
Methyl Acetate
Concen: 0.803 ug/l
RT: 5.049 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN077458.D
Acq: 25 Apr 2023 09:18

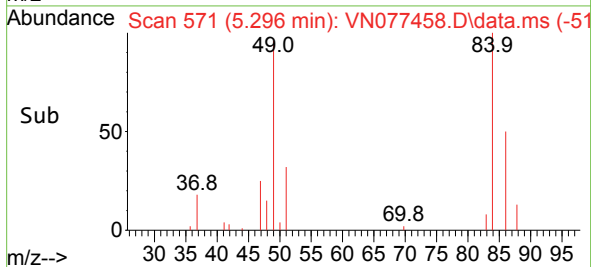
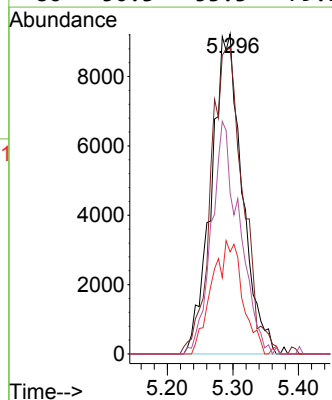
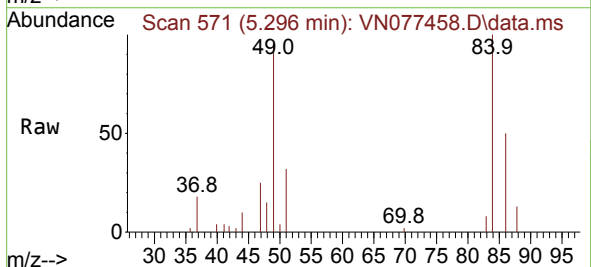
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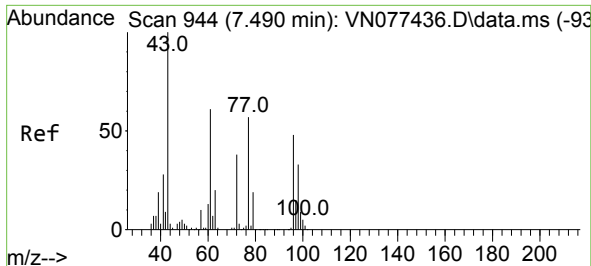
Tgt Ion: 43 Resp: 8560
Ion Ratio Lower Upper
43 100
74 38.7 26.2 39.4



#20
Methylene Chloride
Concen: 3.449 ug/l
RT: 5.296 min Scan# 571
Delta R.T. 0.006 min
Lab File: VN077458.D
Acq: 25 Apr 2023 09:18

Tgt Ion: 84 Resp: 30206
Ion Ratio Lower Upper
84 100
49 95.6 79.7 119.5
51 31.9 25.2 37.8
86 50.3 53.3 79.9#

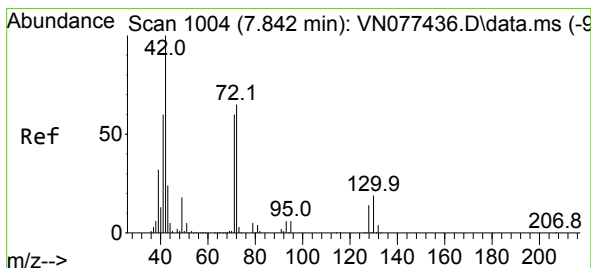
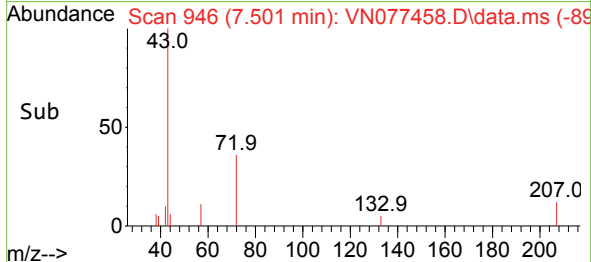
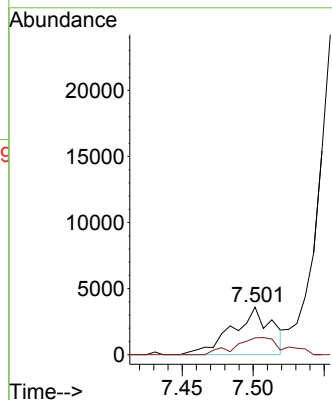
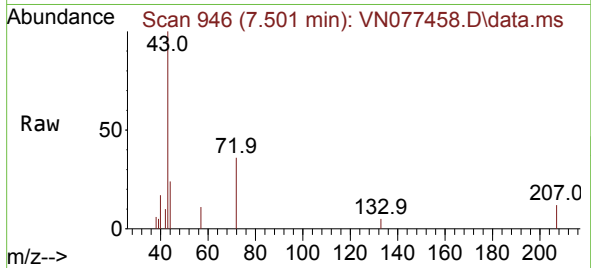




#25
2-Butanone
Concen: 1.778 ug/l
RT: 7.501 min Scan# 944
Delta R.T. 0.012 min
Lab File: VN077458.D
Acq: 25 Apr 2023 09:18

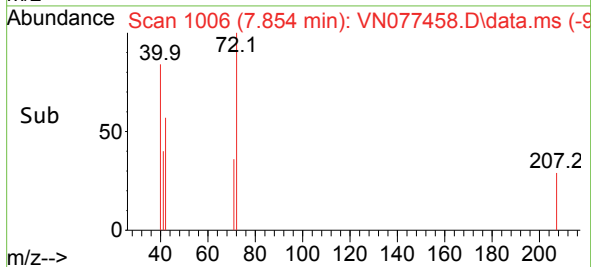
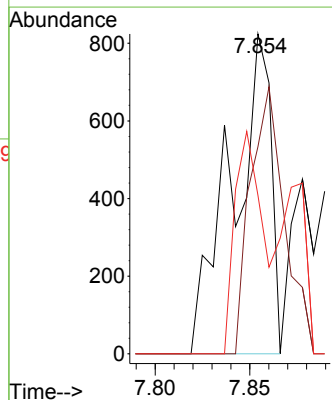
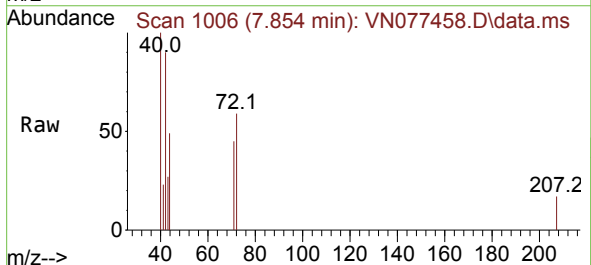
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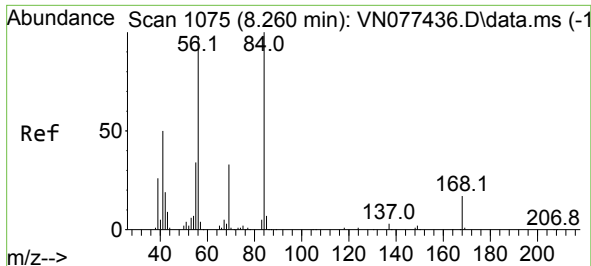
Tgt Ion: 43 Resp: 6963
Ion Ratio Lower Upper
43 100
72 35.6 30.2 45.2



#29
Tetrahydrofuran
Concen: 0.478 ug/l
RT: 7.854 min Scan# 1006
Delta R.T. 0.012 min
Lab File: VN077458.D
Acq: 25 Apr 2023 09:18

Tgt Ion: 42 Resp: 1172
Ion Ratio Lower Upper
42 100
72 73.5 49.8 74.6
71 49.0 47.4 71.2

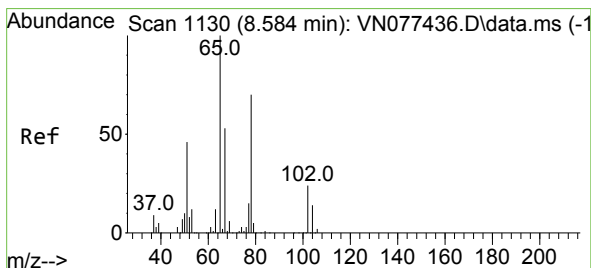
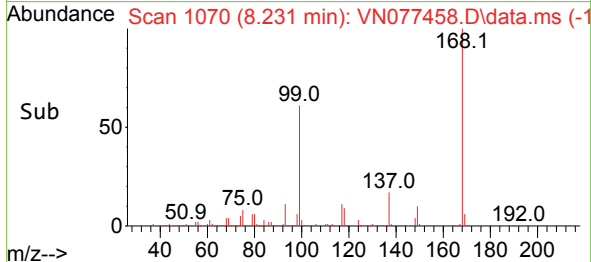
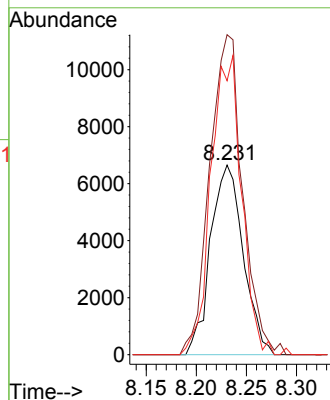
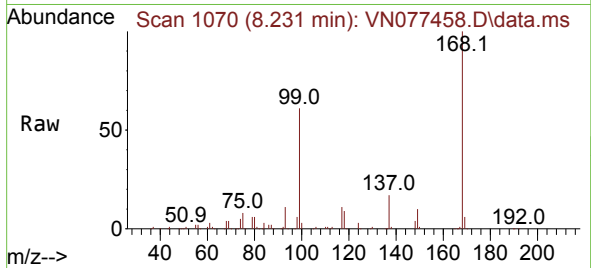




#31
Cyclohexane
Concen: 1.226 ug/l
RT: 8.231 min Scan# 1075
Delta R.T. -0.029 min
Lab File: VN077458.D
Acq: 25 Apr 2023 09:18

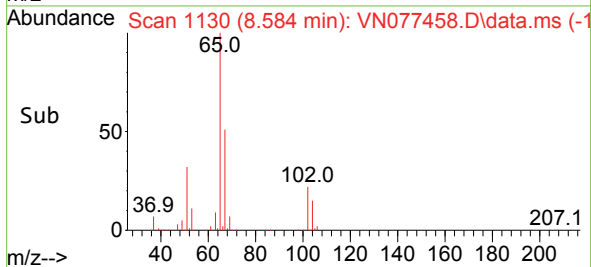
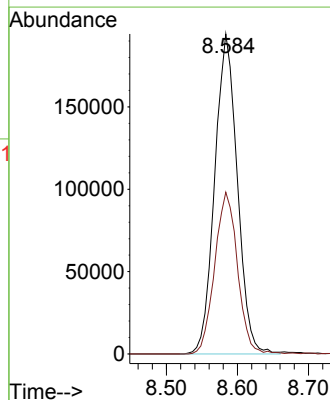
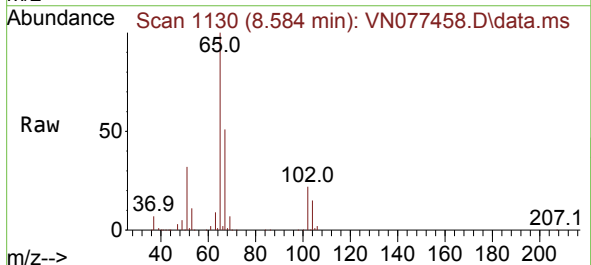
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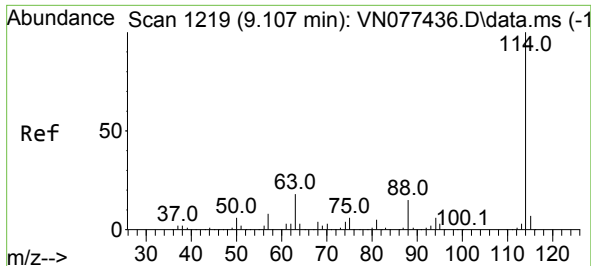
Tgt Ion: 56 Resp: 15074
Ion Ratio Lower Upper
56 100
69 168.8 26.8 40.2#
84 144.5 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 49.370 ug/l
RT: 8.584 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN077458.D
Acq: 25 Apr 2023 09:18

Tgt Ion: 65 Resp: 428530
Ion Ratio Lower Upper
65 100
67 51.0 0.0 106.6

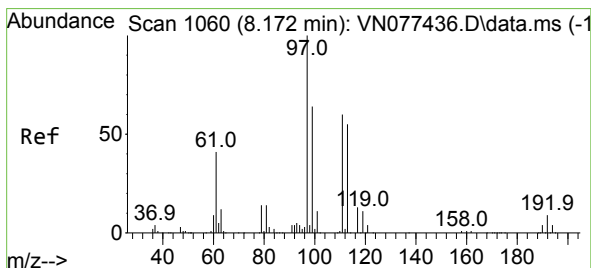
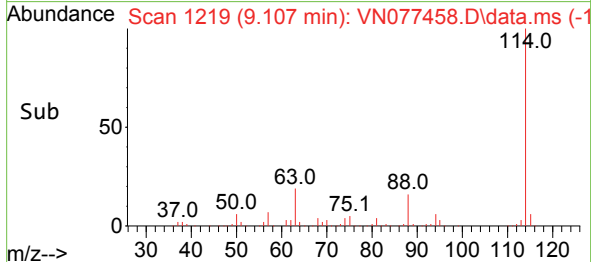
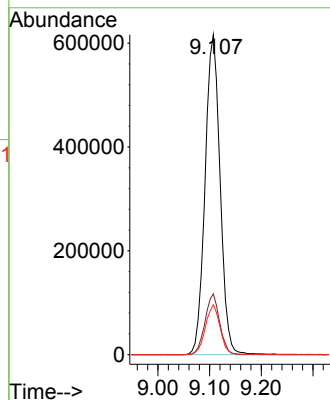
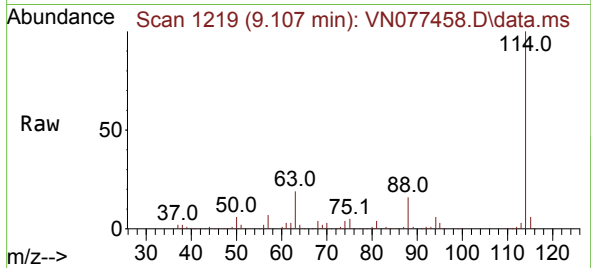




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.107 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN077458.D
Acq: 25 Apr 2023 09:18

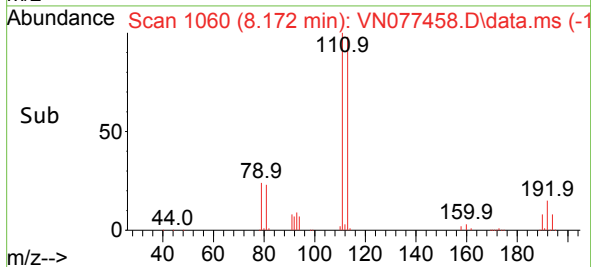
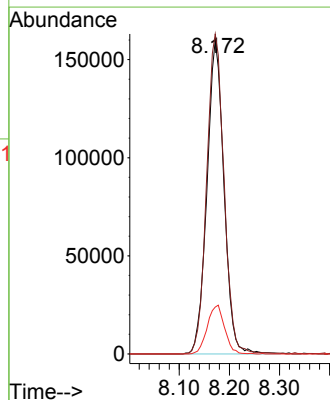
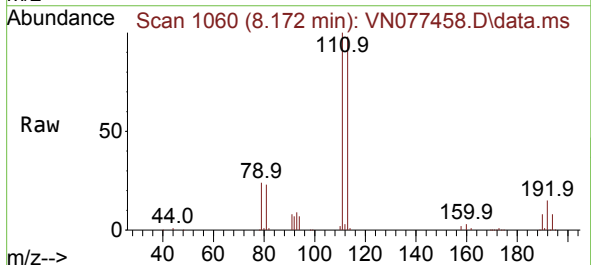
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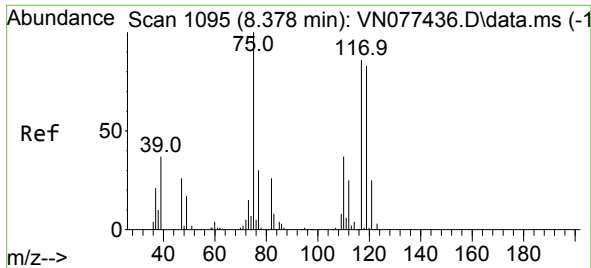
Tgt Ion:114 Resp: 1246737
Ion Ratio Lower Upper
114 100
63 19.0 0.0 36.4
88 15.6 0.0 30.6



#35
Dibromofluoromethane
Concen: 50.371 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. 0.000 min
Lab File: VN077458.D
Acq: 25 Apr 2023 09:18

Tgt Ion:113 Resp: 377450
Ion Ratio Lower Upper
113 100
111 103.7 82.6 123.8
192 15.8 12.7 19.1

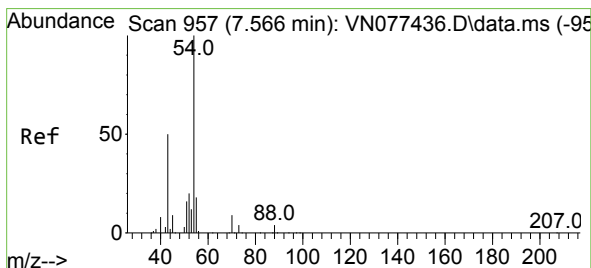
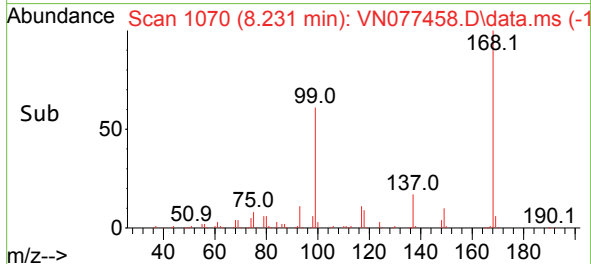
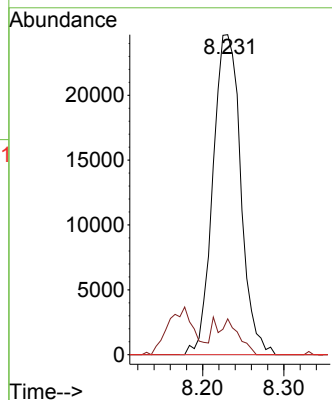
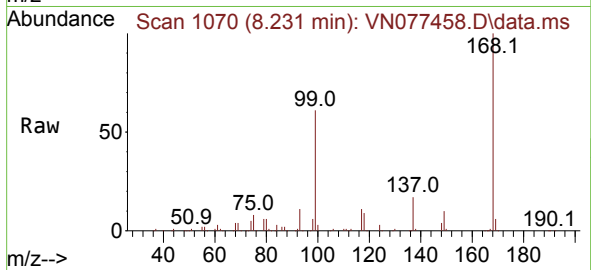




#36
1,1-Dichloropropene
Concen: 5.416 ug/l
RT: 8.231 min Scan# 110
Delta R.T. -0.147 min
Lab File: VN077458.D
Acq: 25 Apr 2023 09:18

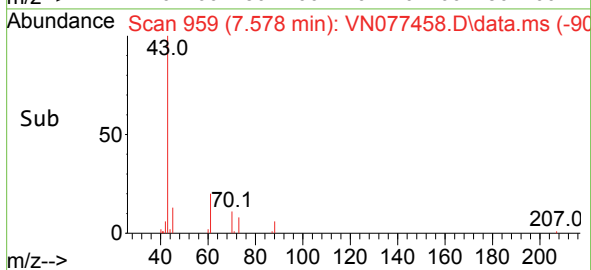
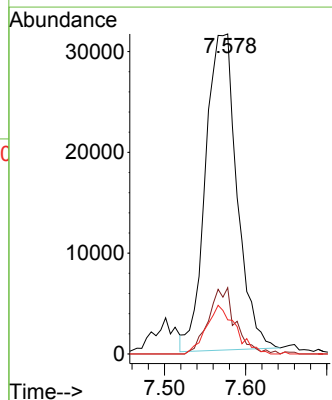
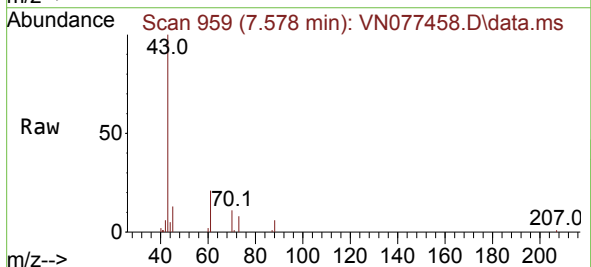
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MSVOA_N
ClientSampleId :
SPD-1WC-23-04-18

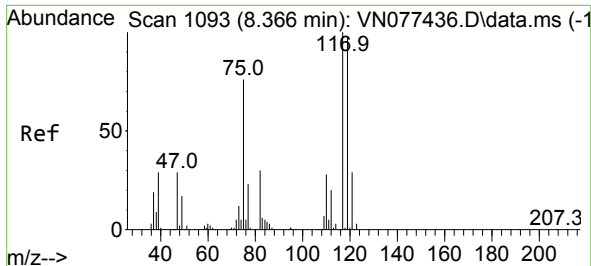
Tgt Ion: 75 Resp: 58633
Ion Ratio Lower Upper
75 100
110 9.4 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 10.273 ug/l
RT: 7.578 min Scan# 959
Delta R.T. 0.012 min
Lab File: VN077458.D
Acq: 25 Apr 2023 09:18

Tgt Ion: 43 Resp: 84508
Ion Ratio Lower Upper
43 100
61 18.0 13.2 19.8
70 14.3 11.3 16.9

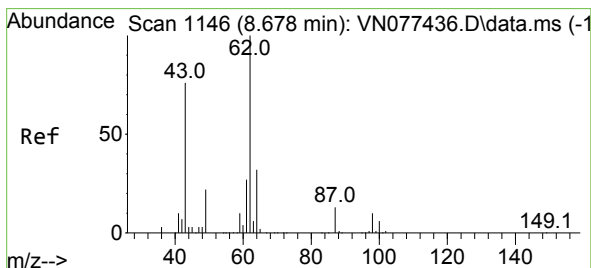
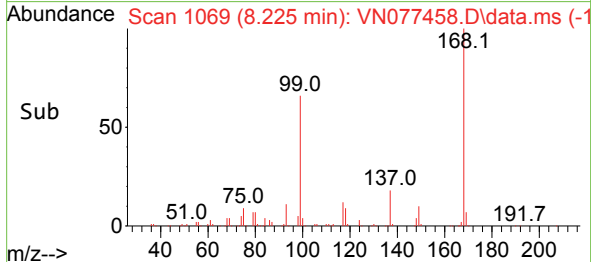
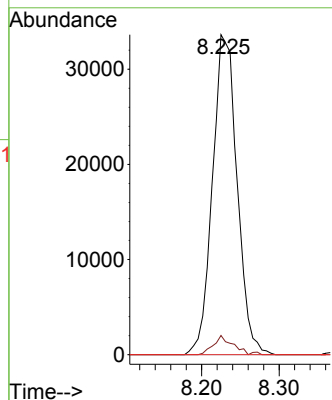
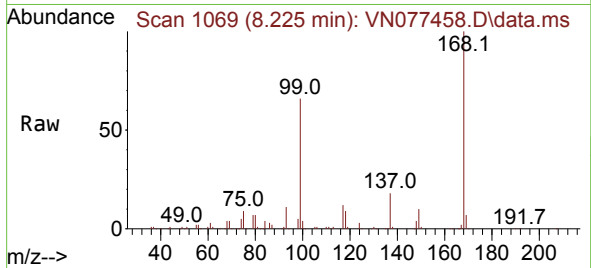




#38
Carbon Tetrachloride
Concen: 6.212 ug/l
RT: 8.225 min Scan# 1109
Delta R.T. -0.141 min
Lab File: VN077458.D
Acq: 25 Apr 2023 09:18

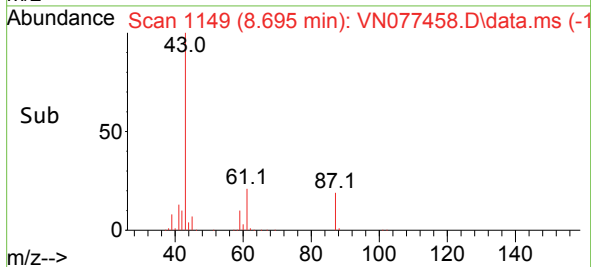
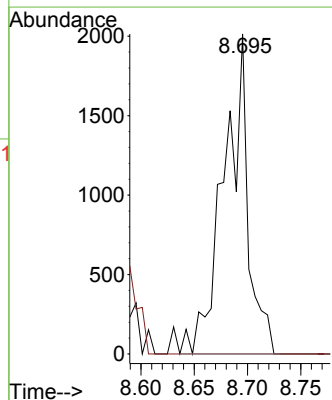
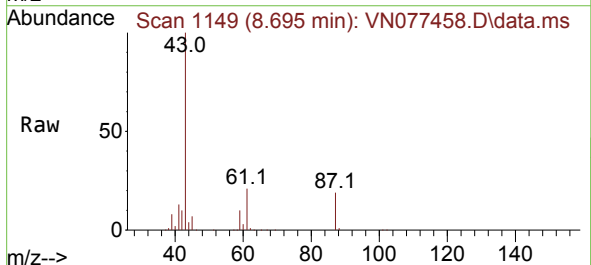
Instrument :
MSVOA_N
ClientSampleId :
SPD-1WC-23-04-18

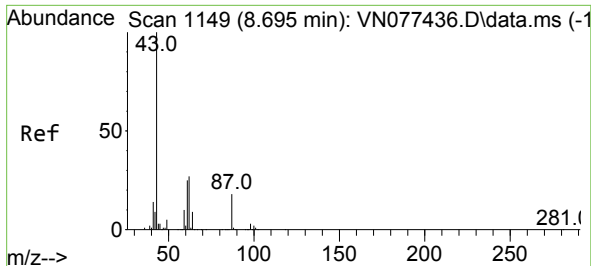
Tgt Ion:117 Resp: 74197
Ion Ratio Lower Upper
117 100
119 6.0 77.3 115.9#
121 0.0 23.3 34.9#



#42
1,2-Dichloroethane
Concen: 0.283 ug/l
RT: 8.695 min Scan# 1149
Delta R.T. 0.018 min
Lab File: VN077458.D
Acq: 25 Apr 2023 09:18

Tgt Ion: 62 Resp: 3200
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.8

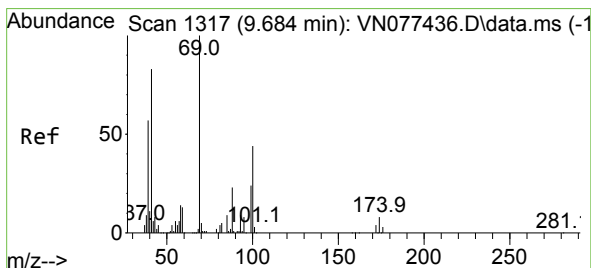
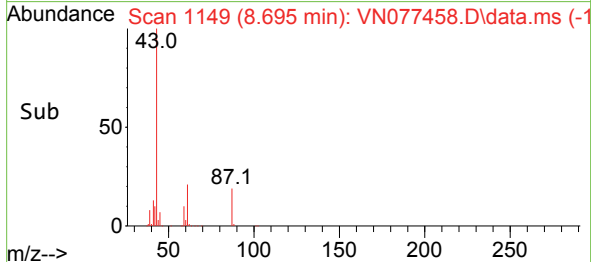
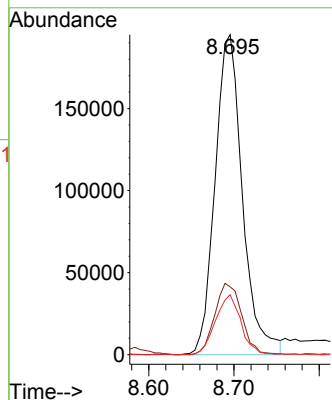
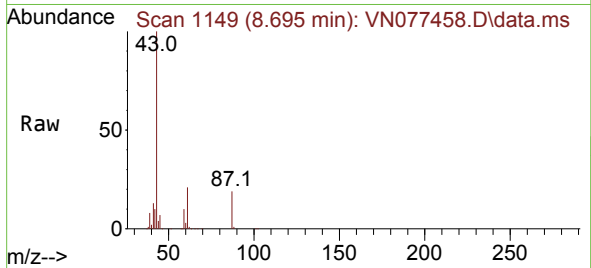




#43
Isopropyl Acetate
Concen: 30.632 ug/l
RT: 8.695 min Scan# 1149
Delta R.T. 0.000 min
Lab File: VN077458.D
Acq: 25 Apr 2023 09:18

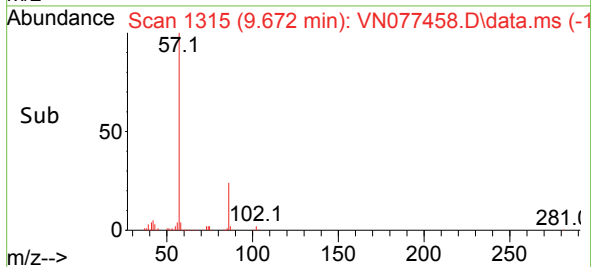
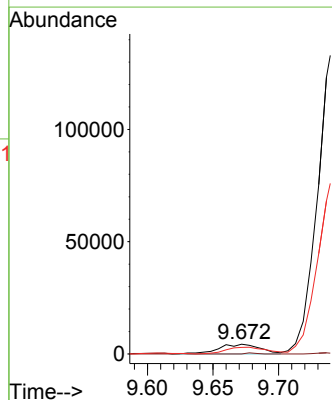
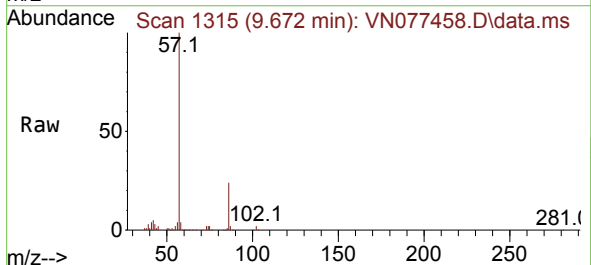
Instrument :
MSVOA_N
ClientSampleId :
SPD-1WC-23-04-18

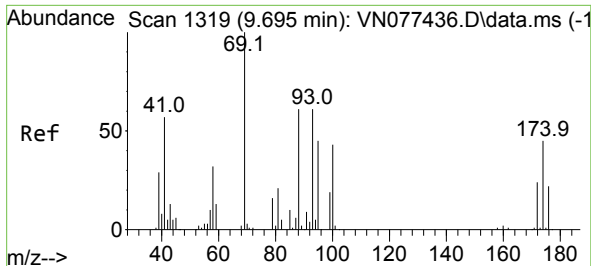
Tgt Ion: 43 Resp: 435948
Ion Ratio Lower Upper
43 100
61 22.0 24.7 37.1#
87 17.4 14.6 21.8



#48
Methyl methacrylate
Concen: 1.488 ug/l
RT: 9.672 min Scan# 1315
Delta R.T. -0.012 min
Lab File: VN077458.D
Acq: 25 Apr 2023 09:18

Tgt Ion: 41 Resp: 9640
Ion Ratio Lower Upper
41 100
69 2.6 90.4 135.6#
39 70.5 54.6 81.8





#49

1,4-Dioxane

Concen: 0.615 ug/l

RT: 9.707 min Scan# 1

Delta R.T. 0.012 min

Lab File: VN077458.D

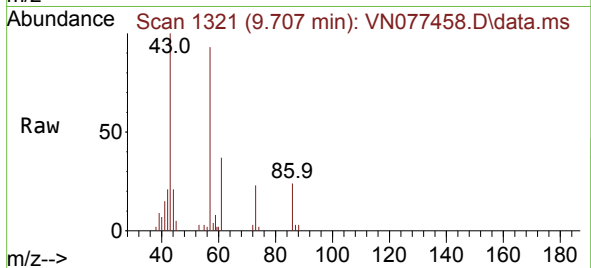
Acq: 25 Apr 2023 09:18

Instrument :

MSVOA_N

ClientSampleId :

SPD-1WC-23-04-18



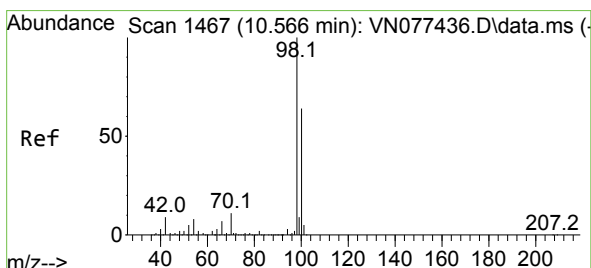
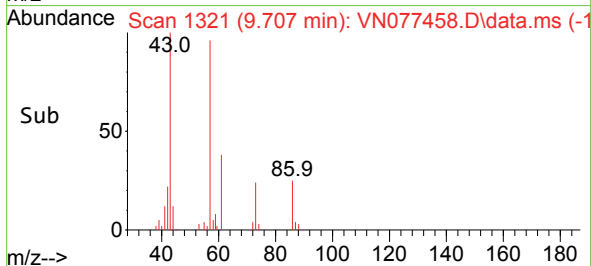
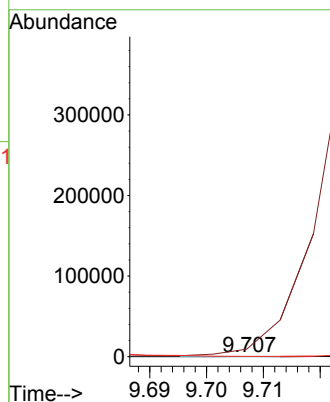
Tgt Ion: 88 Resp: 100

Ion Ratio Lower Upper

88 100

43 0.0 17.0 25.6#

58 0.0 47.0 70.4#



#50

Toluene-d8

Concen: 53.298 ug/l

RT: 10.566 min Scan# 1467

Delta R.T. 0.000 min

Lab File: VN077458.D

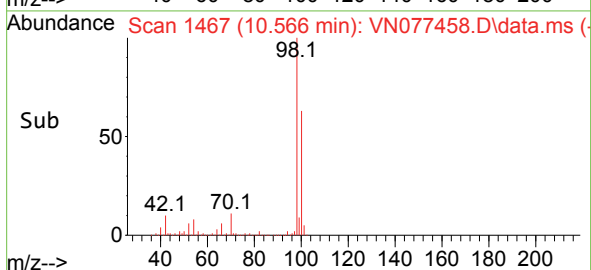
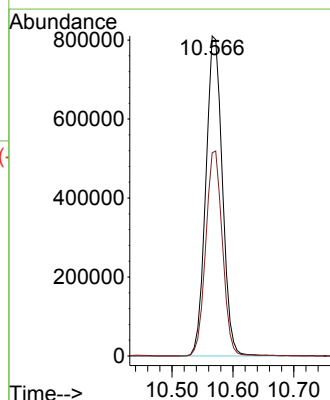
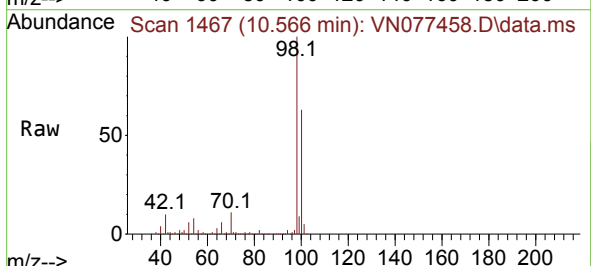
Acq: 25 Apr 2023 09:18

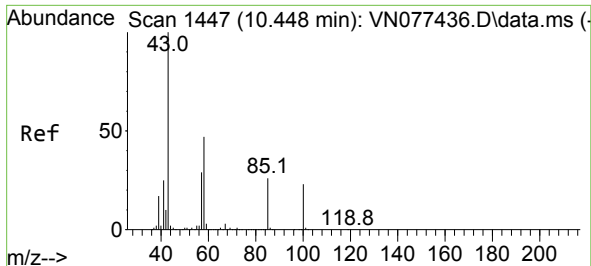
Tgt Ion: 98 Resp: 1530672

Ion Ratio Lower Upper

98 100

100 64.4 52.0 78.0

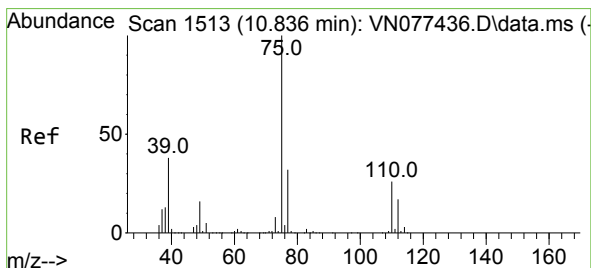
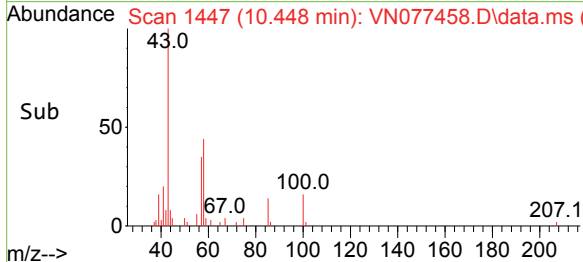
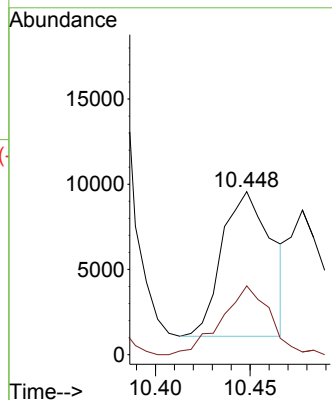
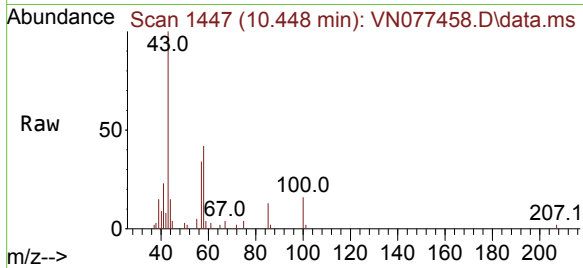




#51
4-Methyl-2-Pentanone
Concen: 1.858 ug/l
RT: 10.448 min Scan# 1447
Delta R.T. 0.000 min
Lab File: VN077458.D
Acq: 25 Apr 2023 09:18

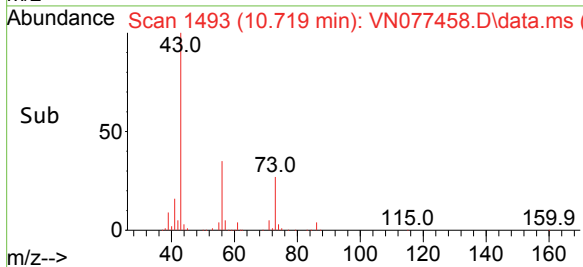
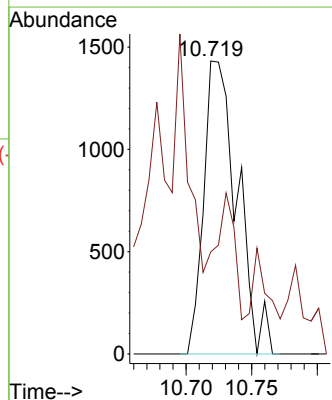
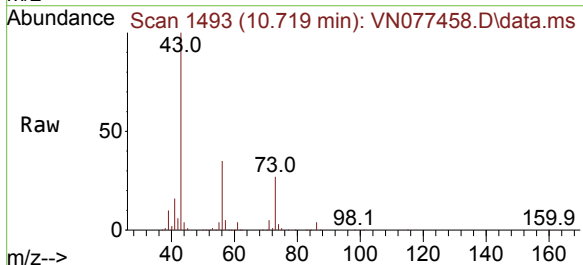
Instrument :
MSVOA_N
ClientSampleId :
SPD-1WC-23-04-18

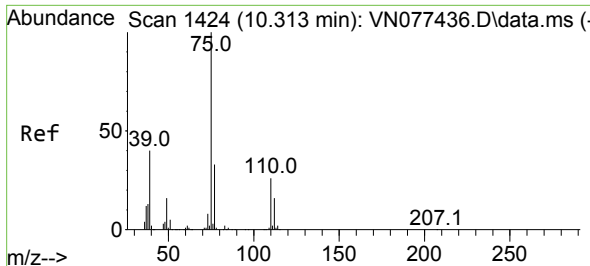
Tgt Ion: 43 Resp: 15507
Ion Ratio Lower Upper
43 100
58 46.4 36.6 54.8



#53
t-1,3-Dichloropropene
Concen: 0.207 ug/l
RT: 10.719 min Scan# 1493
Delta R.T. -0.118 min
Lab File: VN077458.D
Acq: 25 Apr 2023 09:18

Tgt Ion: 75 Resp: 2543
Ion Ratio Lower Upper
75 100
77 22.9 25.4 38.0#

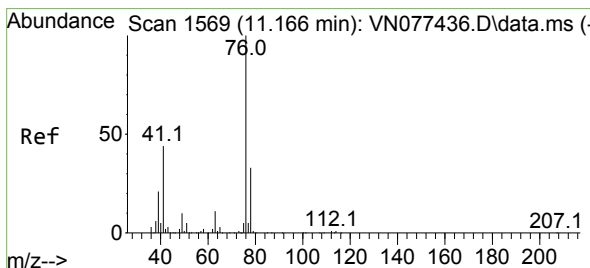
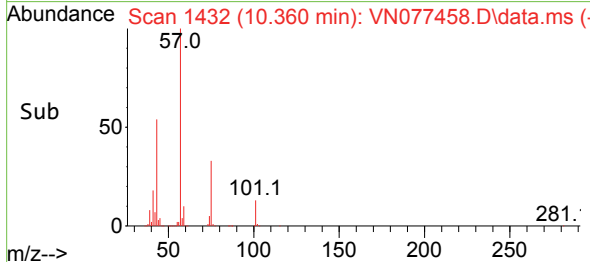
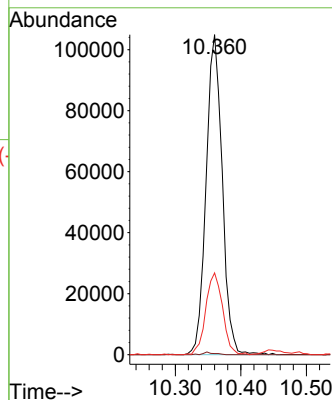
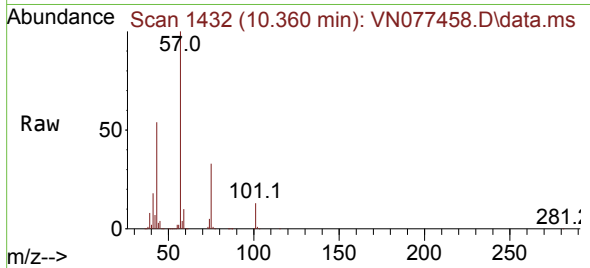




#54
cis-1,3-Dichloropropene
Concen: 13.424 ug/l
RT: 10.360 min Scan# 14
Delta R.T. 0.047 min
Lab File: VN077458.D
Acq: 25 Apr 2023 09:18

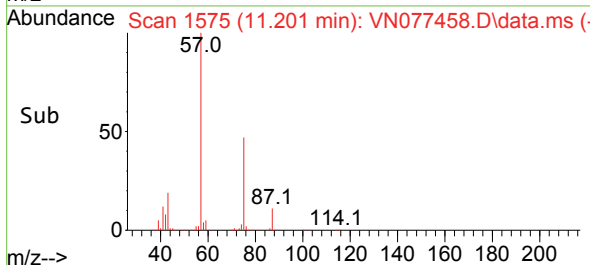
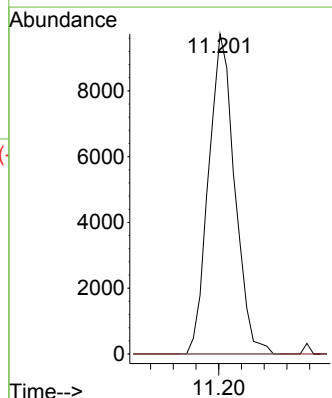
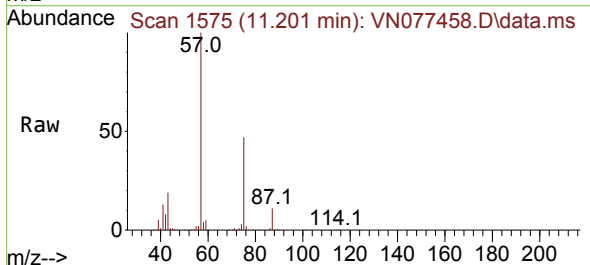
Instrument :
MSVOA_N
ClientSampleId :
SPD-1WC-23-04-18

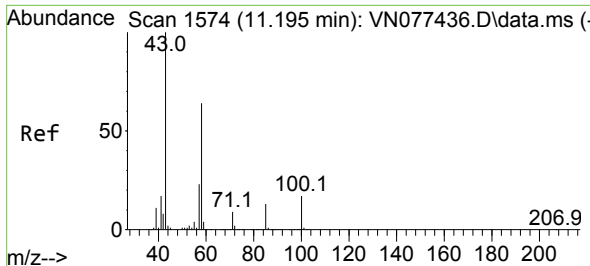
Tgt Ion: 75 Resp: 179402
Ion Ratio Lower Upper
75 100
77 0.3 26.1 39.1#
39 25.5 31.6 47.4#



#57
1,3-Dichloropropane
Concen: 1.124 ug/l
RT: 11.201 min Scan# 1575
Delta R.T. 0.035 min
Lab File: VN077458.D
Acq: 25 Apr 2023 09:18

Tgt Ion: 76 Resp: 15554
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

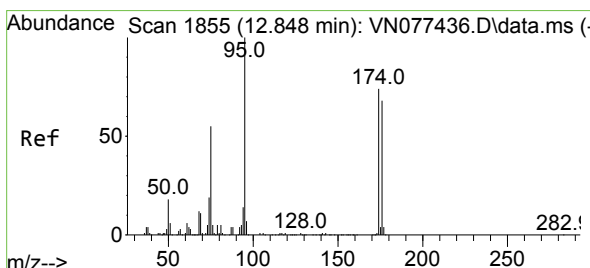
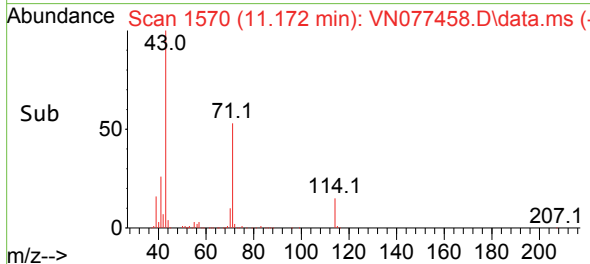
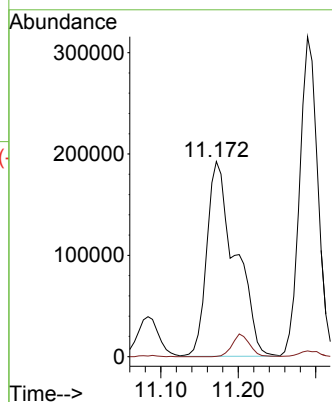
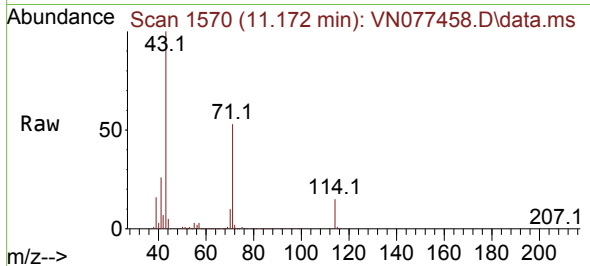




#59
2-Hexanone
Concen: 81.234 ug/l
RT: 11.172 min Scan# 11
Delta R.T. -0.024 min
Lab File: VN077458.D
Acq: 25 Apr 2023 09:18

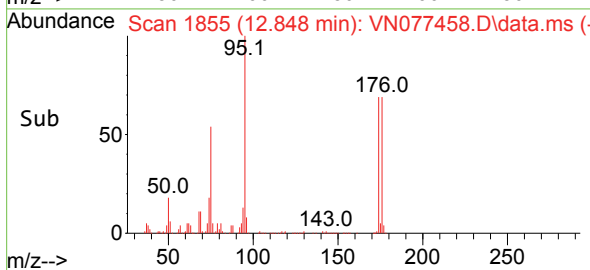
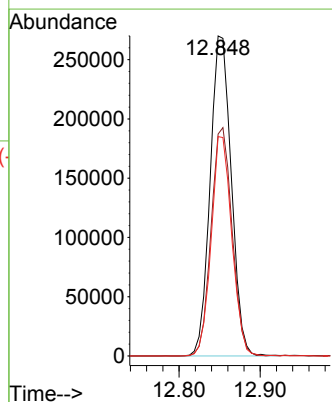
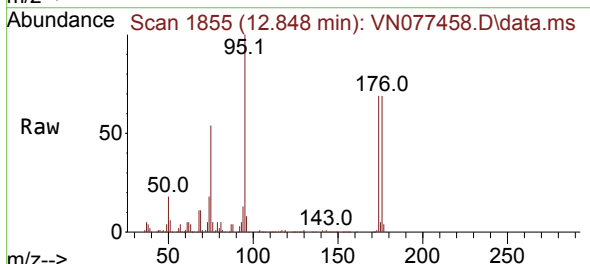
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ClientSampleId :
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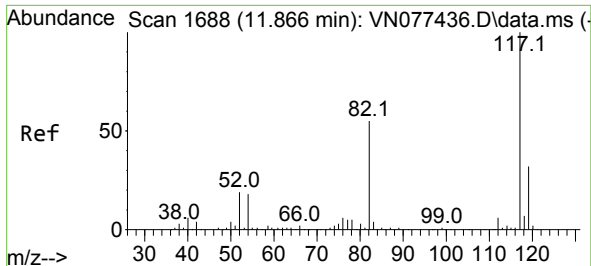
Tgt Ion: 43 Resp: 492903
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 52.003 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. 0.000 min
Lab File: VN077458.D
Acq: 25 Apr 2023 09:18

Tgt Ion: 95 Resp: 488627
Ion Ratio Lower Upper
95 100
174 70.8 0.0 143.8
176 66.9 0.0 135.8

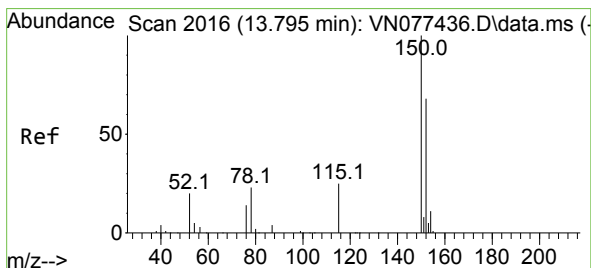
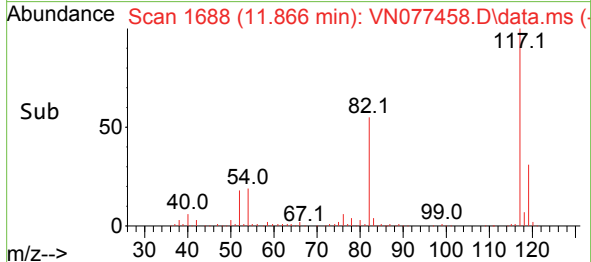
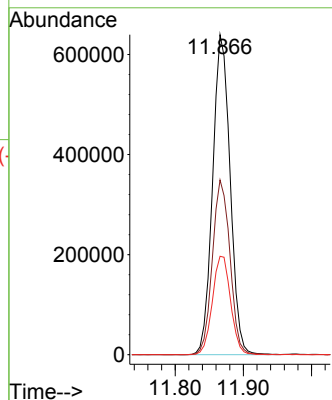
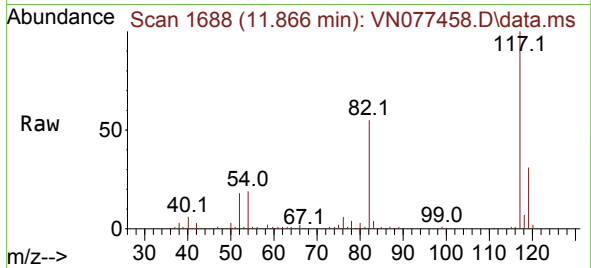




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN077458.D
Acq: 25 Apr 2023 09:18

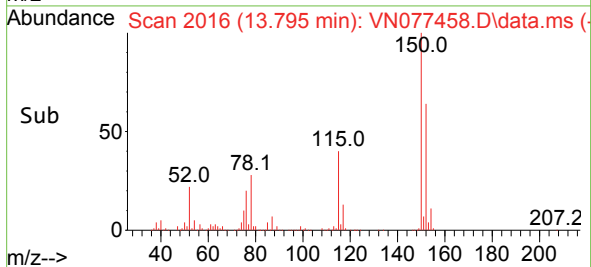
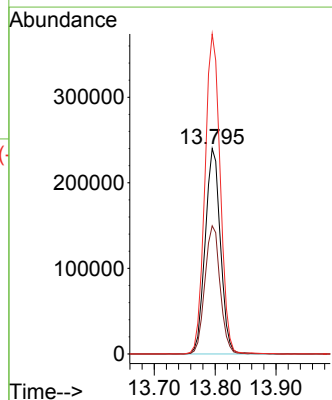
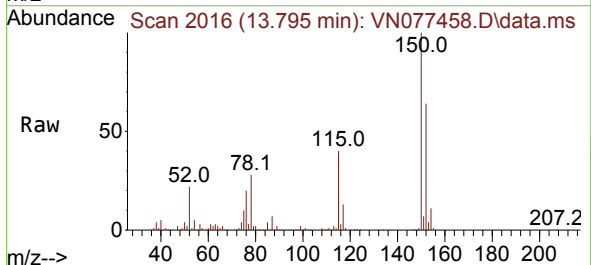
Instrument :
MSVOA_N
ClientSampleId :
SPD-1WC-23-04-18

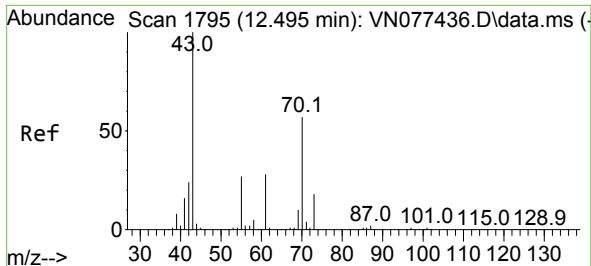
Tgt Ion:117 Resp: 1144756
Ion Ratio Lower Upper
117 100
82 54.6 44.0 66.0
119 30.7 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN077458.D
Acq: 25 Apr 2023 09:18

Tgt Ion:152 Resp: 416342
Ion Ratio Lower Upper
152 100
115 62.6 32.3 96.8
150 156.6 0.0 355.8

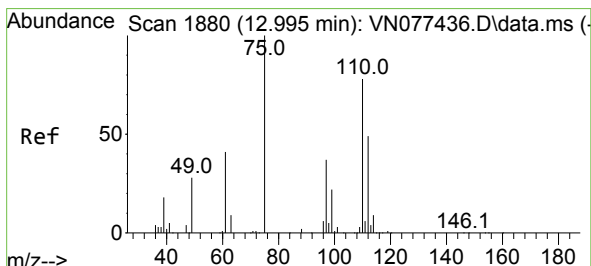
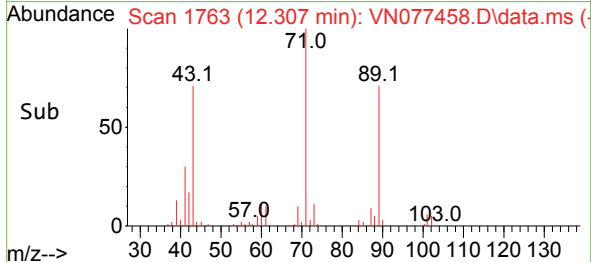
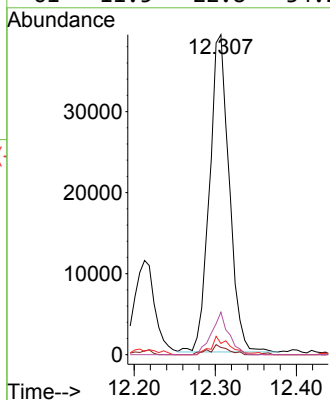
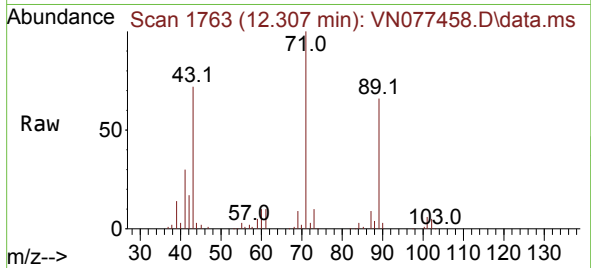




#74
N-amy1 acetate
Concen: 5.770 ug/l
RT: 12.307 min Scan# 1763
Delta R.T. -0.188 min
Lab File: VN077458.D
Acq: 25 Apr 2023 09:18

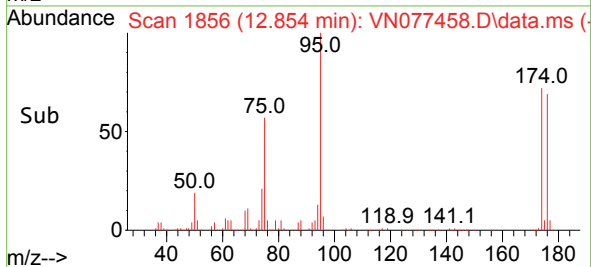
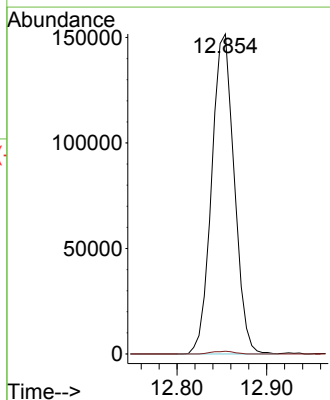
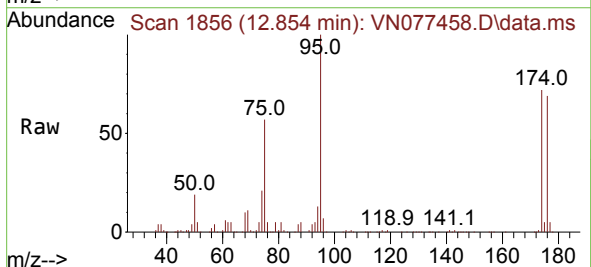
Instrument :
MSVOA_N
ClientSampleId :
SPD-1WC-23-04-18

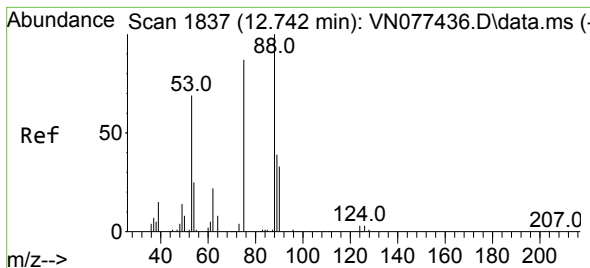
Tgt Ion:	43	Resp:	66003
Ion	Ratio	Lower	Upper
43	100		
70	2.9	43.4	65.2#
55	5.5	21.4	32.0#
61	11.5	22.8	34.2#



#76
1,2,3-Trichloropropane
Concen: 27.356 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN077458.D
Acq: 25 Apr 2023 09:18

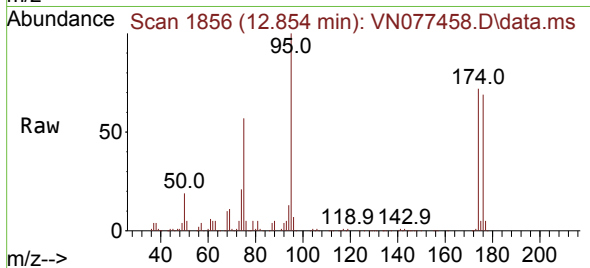
Tgt Ion:	75	Resp:	264849
Ion	Ratio	Lower	Upper
75	100		
77	0.8	84.5	253.5#



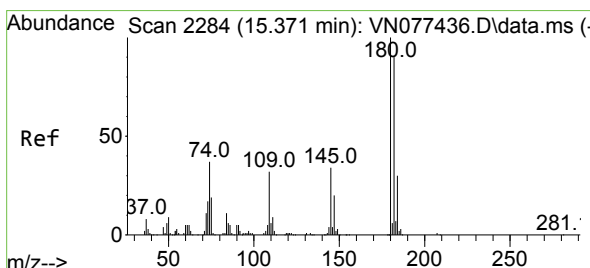
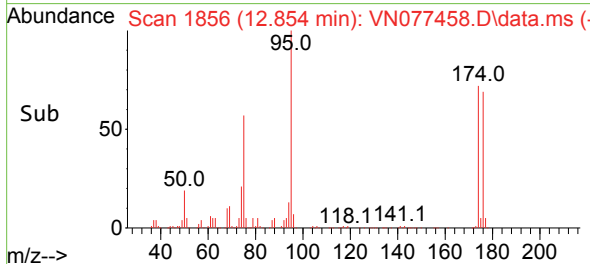
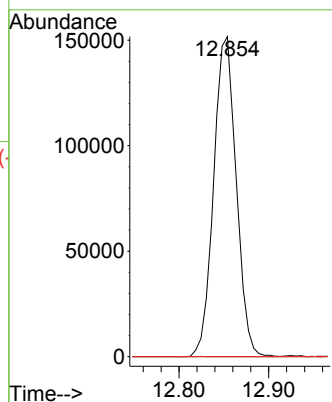


#81
 trans-1,4-Dichloro-2-butene
 Concen: 77.285 ug/l
 RT: 12.854 min Scan# 1856
 Delta R.T. 0.112 min
 Lab File: VN077458.D
 Acq: 25 Apr 2023 09:18

Instrument :
 MSVOA_N
 ClientSampleId :
 SPD-1WC-23-04-18

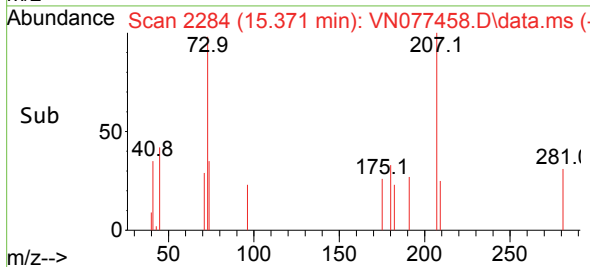
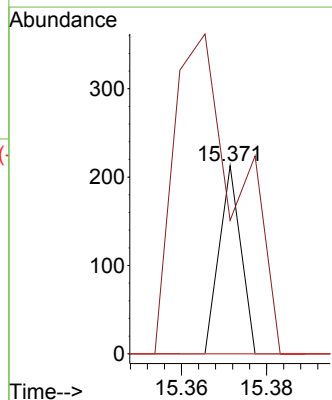
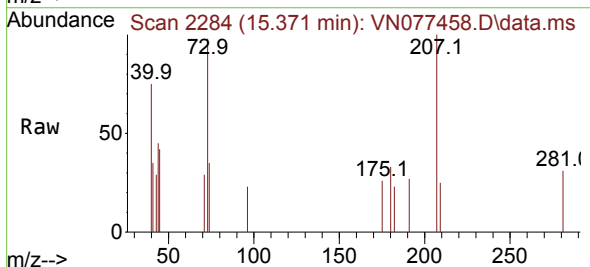


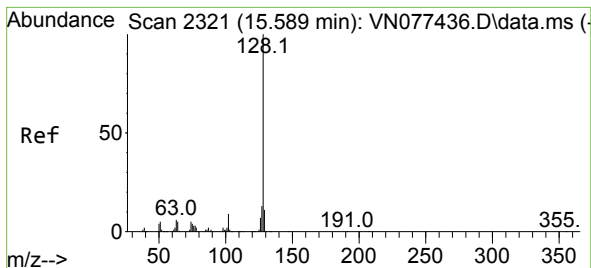
Tgt Ion: 75 Resp: 264849
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#



#93
 1,2,4-Trichlorobenzene
 Concen: 0.822 ug/l
 RT: 15.371 min Scan# 2284
 Delta R.T. 0.000 min
 Lab File: VN077458.D
 Acq: 25 Apr 2023 09:18

Tgt Ion: 180 Resp: 75
 Ion Ratio Lower Upper
 180 100
 182 497.3 46.1 138.2#
 145 0.0 16.6 49.8#





#95

Naphthalene

Concen: 1.198 ug/l

RT: 15.595 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN077458.D

Acq: 25 Apr 2023 09:18

Instrument :

MSVOA_N

ClientSampleId :

SPD-1WC-23-04-18

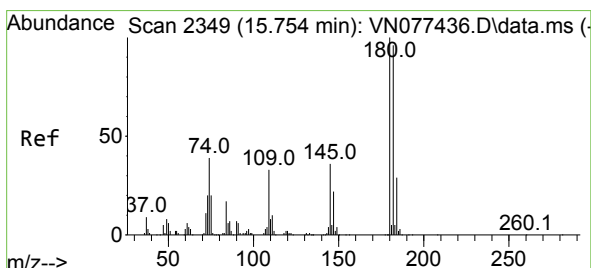
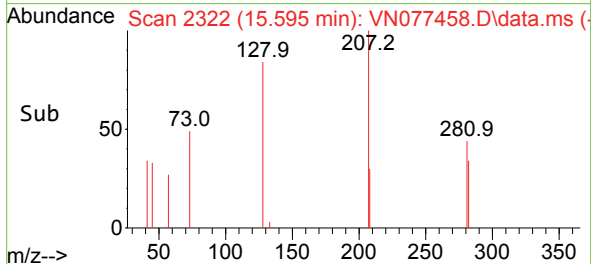
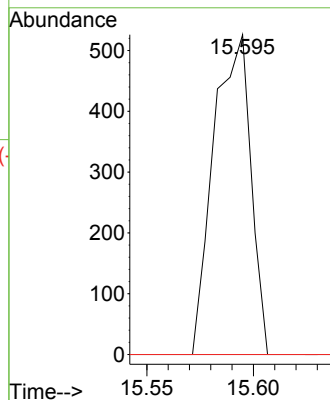
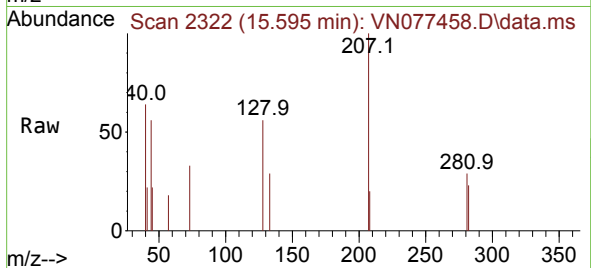
Tgt Ion:128 Resp: 637

Ion Ratio Lower Upper

128 100

127 0.0 10.0 15.0#

129 0.0 8.7 13.1#



#96

1,2,3-Trichlorobenzene

Concen: 0.503 ug/l

RT: 15.765 min Scan# 2351

Delta R.T. 0.011 min

Lab File: VN077458.D

Acq: 25 Apr 2023 09:18

Tgt Ion:180 Resp: 83

Ion Ratio Lower Upper

180 100

182 178.3 46.2 138.6#

145 0.0 17.5 52.6#

