

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032123\
 Data File : VN077083.D
 Acq On : 21 Mar 2023 11:29
 Operator : JC\MD
 Sample : VN0321MBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0321MBL01

Quant Time: Mar 21 23:13:28 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031723W.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 20 08:50:30 2023
 Response via : Initial Calibration

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

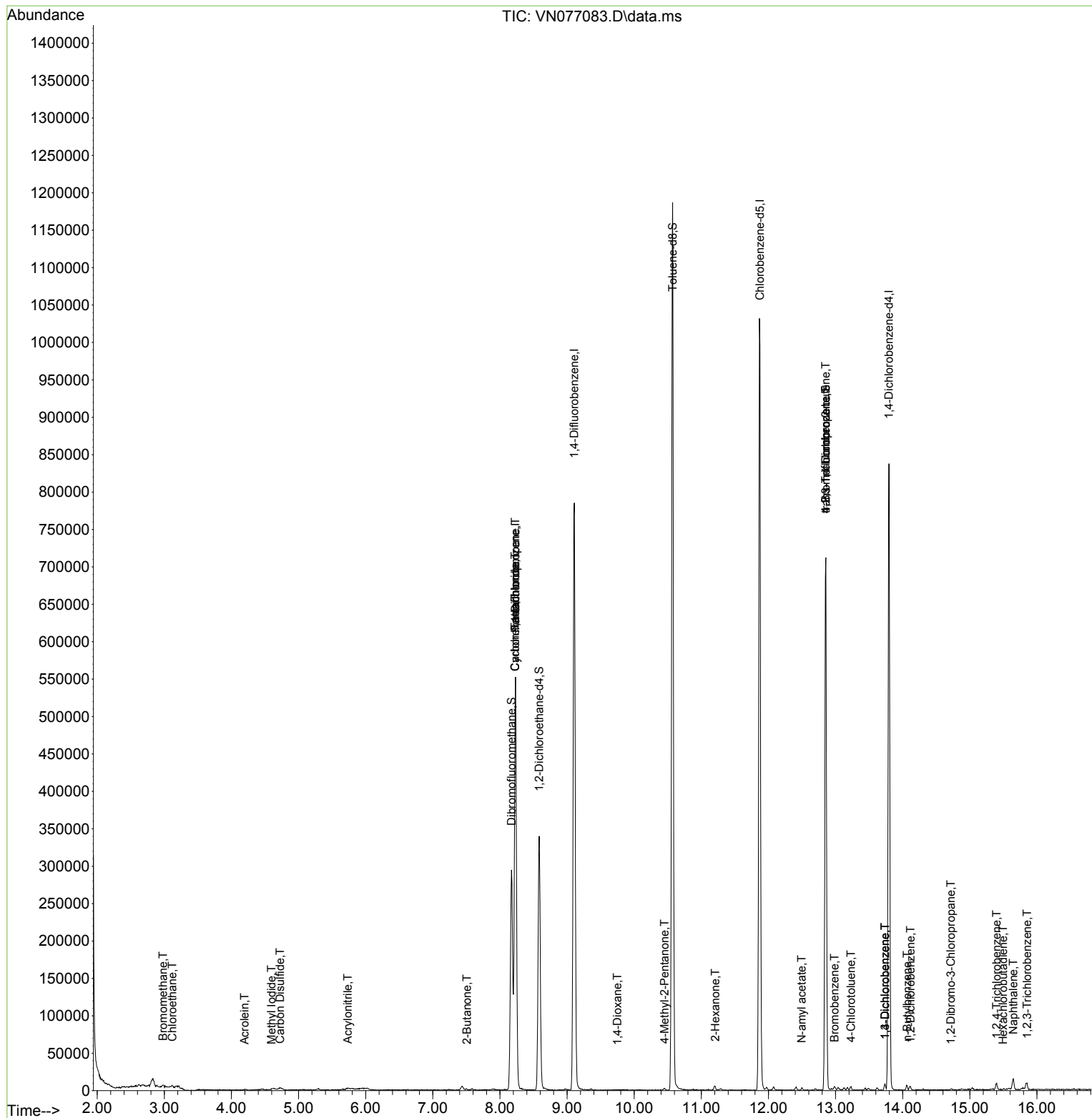
Internal Standards						
1) Pentafluorobenzene	8.231	168	375472	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	673951	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.872	117	584089	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	214175	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	279071	46.531	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	93.060%		
35) Dibromofluoromethane	8.172	113	214676	45.484	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	90.960%		
50) Toluene-d8	10.572	98	812040	48.165	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	96.320%		
62) 4-Bromofluorobenzene	12.854	95	260620	43.746	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	87.500%		
Target Compounds					Qvalue	
5) Bromomethane	2.978	94	1967	0.713	ug/l #	55
6) Chloroethane	3.119	64	1018	0.394	ug/l #	42
10) Methyl Iodide	4.596	142	1818	0.324	ug/l #	67
13) Acrolein	4.196	56	1244	1.151	ug/l #	82
15) Acrylonitrile	5.731	53	979	0.333	ug/l #	63
17) Carbon Disulfide	4.725	76	4463	0.336	ug/l #	77
25) 2-Butanone	7.507	43	1681	0.430	ug/l #	87
31) Cyclohexane	8.225	56	9082	0.926	ug/l #	1
36) 1,1-Dichloropropene	8.231	75	33401	4.531	ug/l #	51
38) Carbon Tetrachloride	8.225	117	42514	5.921	ug/l #	15
49) 1,4-Dioxane	9.748	88	66	0.656	ug/l #	1
51) 4-Methyl-2-Pentanone	10.454	43	2156	0.281	ug/l	97
59) 2-Hexanone	11.207	43	4118	0.740	ug/l	99
74) N-amyl acetate	12.495	43	1886	0.227	ug/l #	86
76) 1,2,3-Trichloropropane	12.854	75	138956	25.083	ug/l #	1
77) Bromobenzene	12.983	156	1037	0.241	ug/l	85
81) trans-1,4-Dichloro-2-b...	12.854	75	138956	69.041	ug/l #	10
82) 4-Chlorotoluene	13.230	91	3213	0.239	ug/l	99
87) 1,3-Dichlorobenzene	13.736	146	2826	0.348	ug/l	91
88) 1,4-Dichlorobenzene	13.736	146	2826	0.350	ug/l	92
89) n-Butylbenzene	14.066	91	4539	0.337	ug/l	90
91) 1,2-Dichlorobenzene	14.119	146	2471	0.305	ug/l	93
92) 1,2-Dibromo-3-Chloropr...	14.719	75	428	0.332	ug/l	87
93) 1,2,4-Trichlorobenzene	15.401	180	3140	0.858	ug/l	98
94) Hexachlorobutadiene	15.495	225	582	0.289	ug/l #	46
95) Naphthalene	15.648	128	13708	2.838	ug/l	99
96) 1,2,3-Trichlorobenzene	15.854	180	4305	1.172	ug/l	97

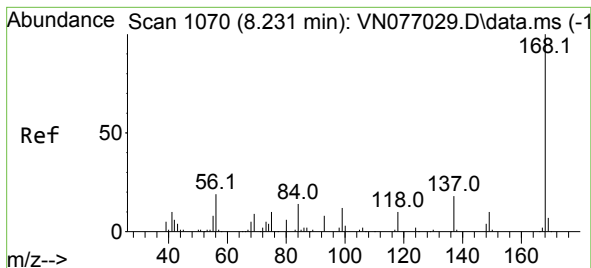
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032123\
Data File : VN077083.D
Acq On : 21 Mar 2023 11:29
Operator : JC\MD
Sample : VN0321MBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0321MBL01

Quant Time: Mar 21 23:13:28 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031723W.M
Quant Title : SW846 8260
QLast Update : Mon Mar 20 08:50:30 2023
Response via : Initial Calibration

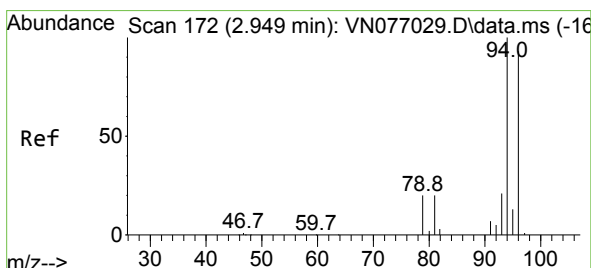
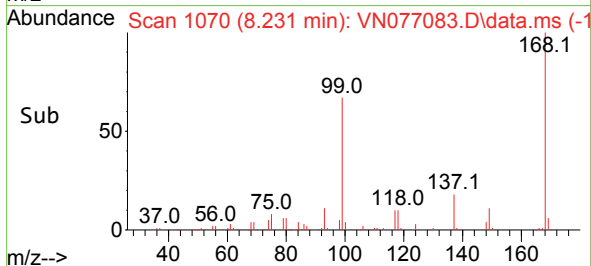
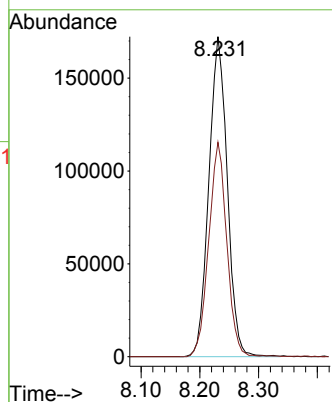
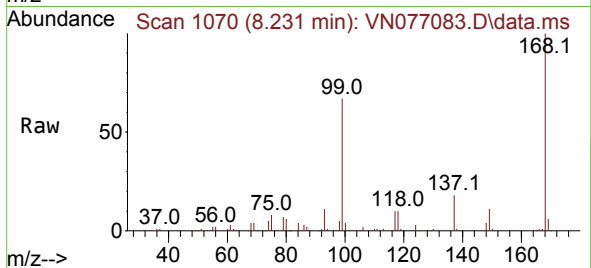




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VN077083.D
Acq: 21 Mar 2023 11:29

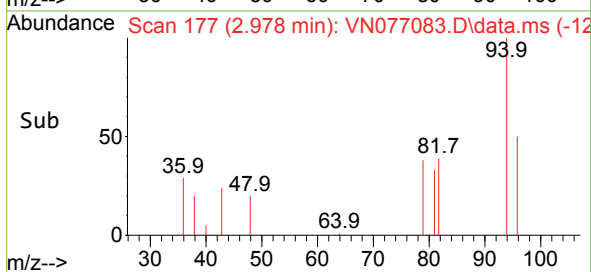
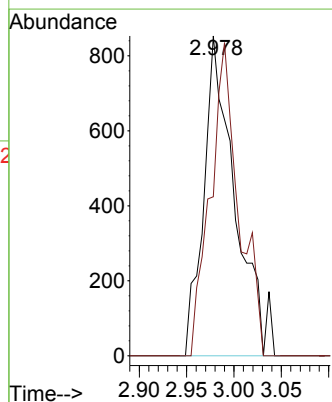
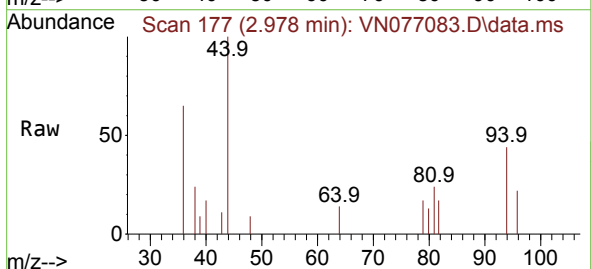
Instrument :
MSVOA_N
ClientSampleId :
VN0321MBL01

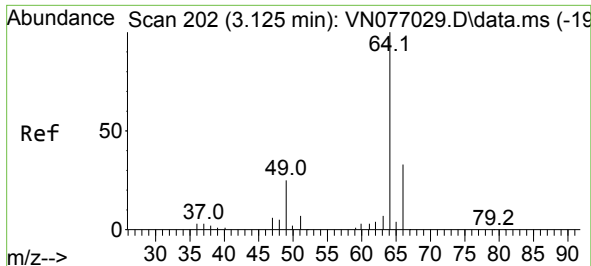
Tgt Ion:168 Resp: 375472
Ion Ratio Lower Upper
168 100
99 67.0 53.9 80.9



#5
Bromomethane
Concen: 0.713 ug/l
RT: 2.978 min Scan# 177
Delta R.T. 0.029 min
Lab File: VN077083.D
Acq: 21 Mar 2023 11:29

Tgt Ion: 94 Resp: 1967
Ion Ratio Lower Upper
94 100
96 49.7 74.1 111.1#

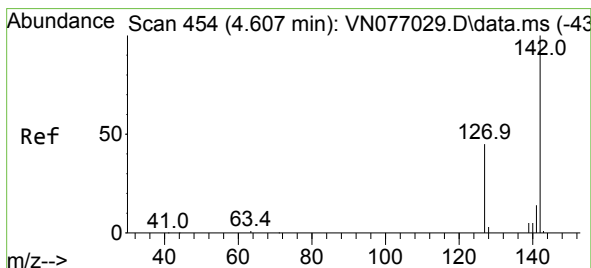
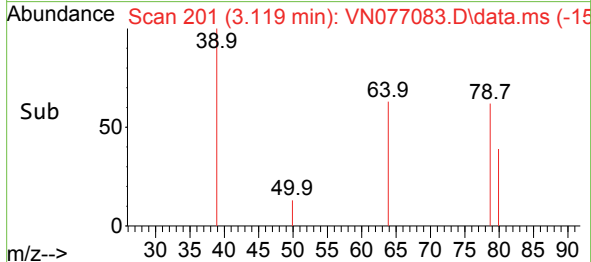
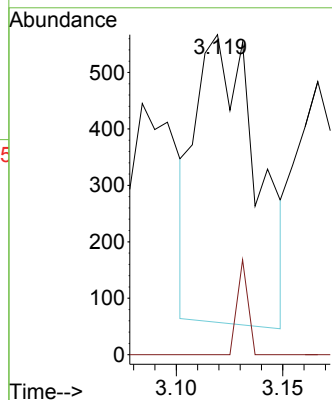
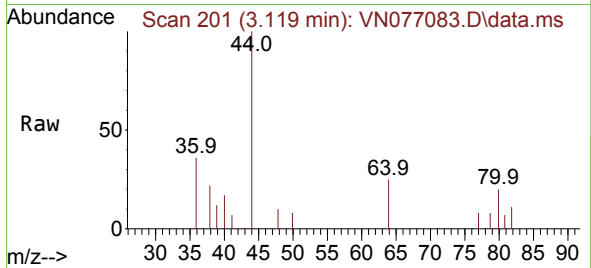




#6
Chloroethane
Concen: 0.394 ug/l
RT: 3.119 min Scan# 201
Delta R.T. -0.006 min
Lab File: VN077083.D
Acq: 21 Mar 2023 11:29

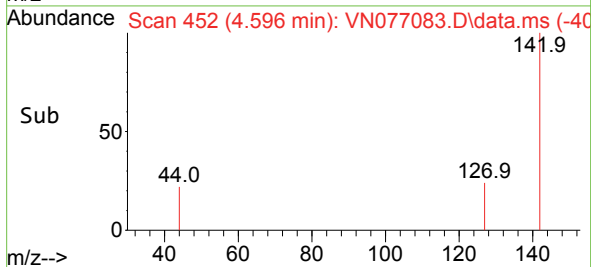
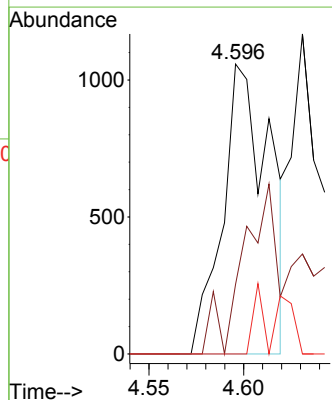
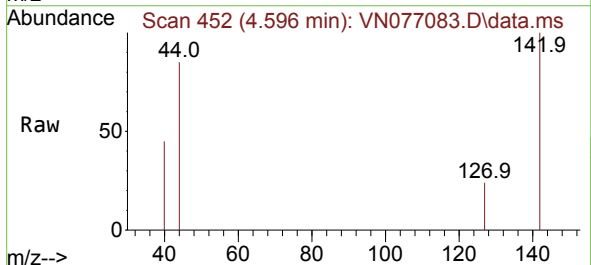
Instrument :
MSVOA_N
ClientSampleId :
VN0321MBL01

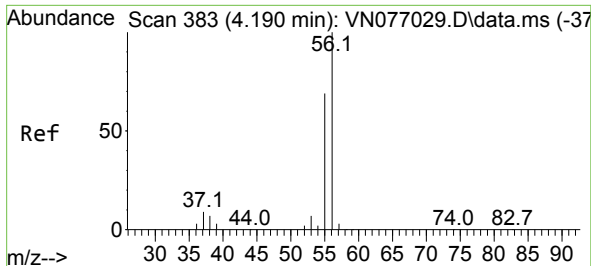
Tgt Ion: 64 Resp: 1018
Ion Ratio Lower Upper
64 100
66 0.0 26.3 39.5#



#10
Methyl Iodide
Concen: 0.324 ug/l
RT: 4.596 min Scan# 452
Delta R.T. -0.011 min
Lab File: VN077083.D
Acq: 21 Mar 2023 11:29

Tgt Ion: 142 Resp: 1818
Ion Ratio Lower Upper
142 100
127 24.0 36.1 54.1#
141 0.0 10.8 16.2#

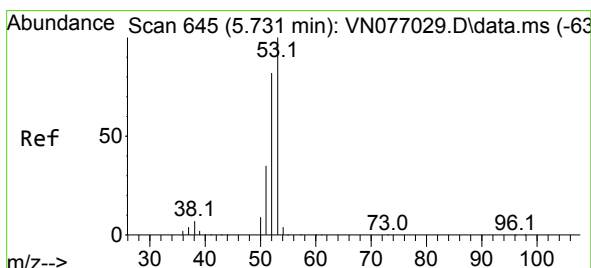
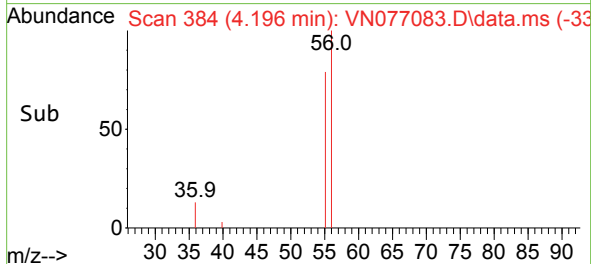
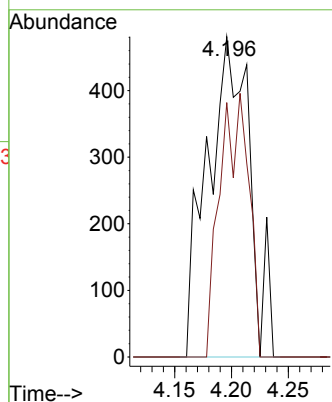
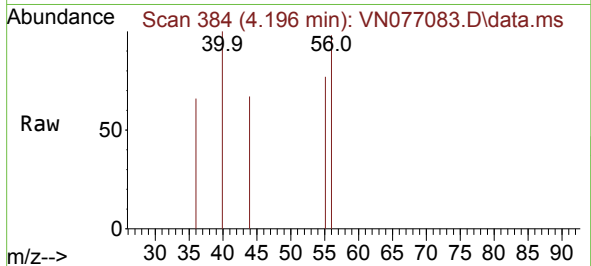




#13
Acrolein
Concen: 1.151 ug/l
RT: 4.196 min Scan# 384
Delta R.T. 0.006 min
Lab File: VN077083.D
Acq: 21 Mar 2023 11:29

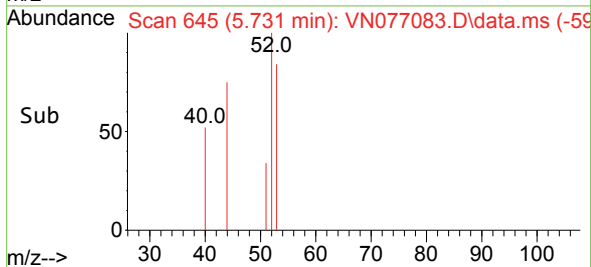
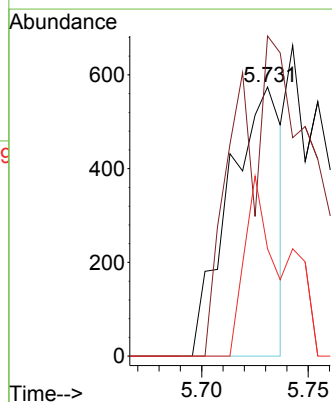
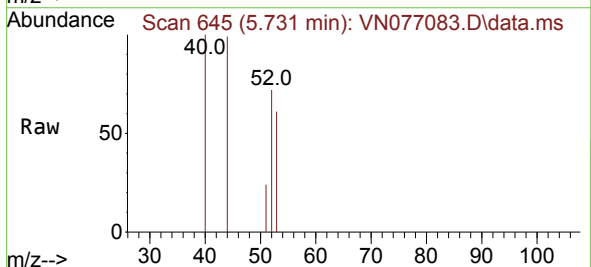
Instrument :
MSVOA_N
ClientSampleId :
VN0321MBL01

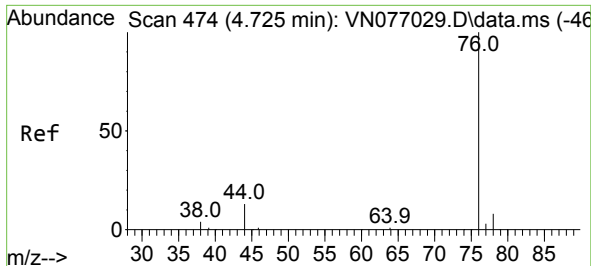
Tgt Ion: 56 Resp: 1244
Ion Ratio Lower Upper
56 100
55 56.1 57.0 85.6#



#15
Acrylonitrile
Concen: 0.333 ug/l
RT: 5.731 min Scan# 645
Delta R.T. -0.000 min
Lab File: VN077083.D
Acq: 21 Mar 2023 11:29

Tgt Ion: 53 Resp: 979
Ion Ratio Lower Upper
53 100
52 117.5 64.6 97.0#
51 50.6 28.3 42.5#

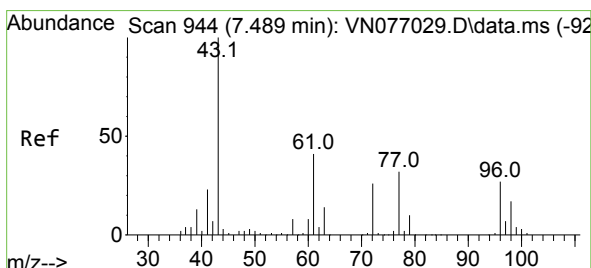
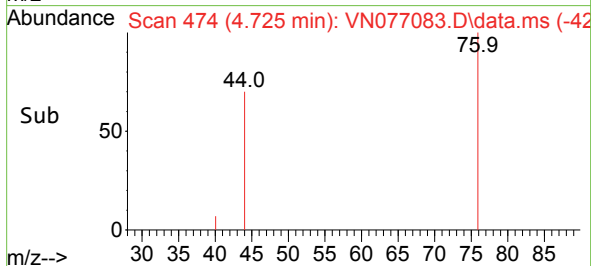
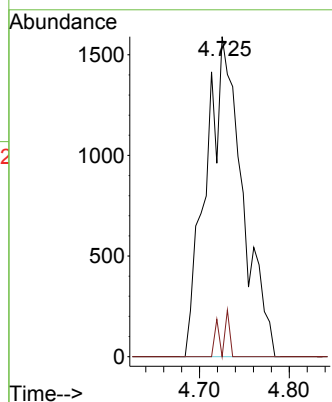
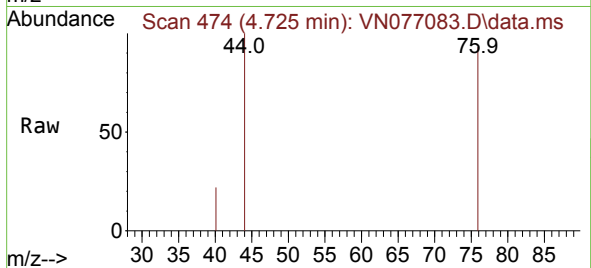




#17
Carbon Disulfide
Concen: 0.336 ug/l
RT: 4.725 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN077083.D
Acq: 21 Mar 2023 11:29

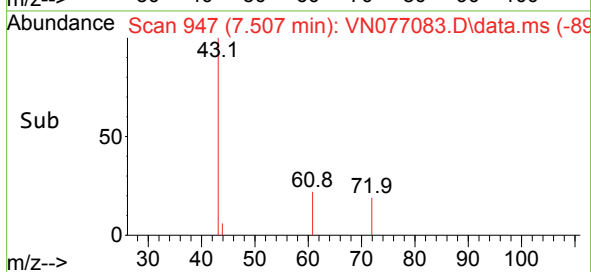
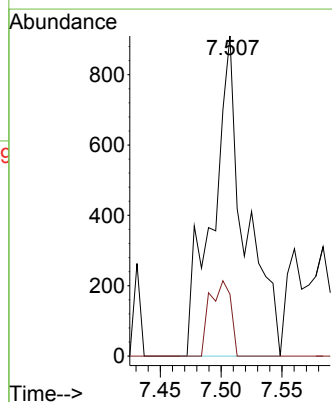
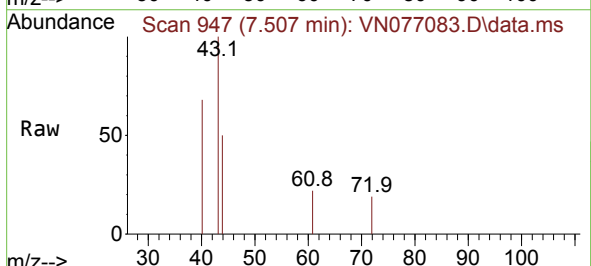
Instrument :
MSVOA_N
ClientSampleId :
VN0321MBL01

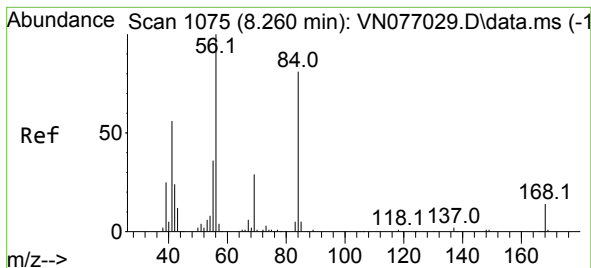
Tgt Ion: 76 Resp: 4463
Ion Ratio Lower Upper
76 100
78 0.0 6.6 10.0#



#25
2-Butanone
Concen: 0.430 ug/l
RT: 7.507 min Scan# 947
Delta R.T. 0.018 min
Lab File: VN077083.D
Acq: 21 Mar 2023 11:29

Tgt Ion: 43 Resp: 1681
Ion Ratio Lower Upper
43 100
72 19.3 20.7 31.1#





#31

Cyclohexane

Concen: 0.926 ug/l

RT: 8.225 min Scan# 1069

Delta R.T. -0.035 min

Lab File: VN077083.D

Acq: 21 Mar 2023 11:29

Instrument :

MSVOA_N

ClientSampleId :

VN0321MBL01

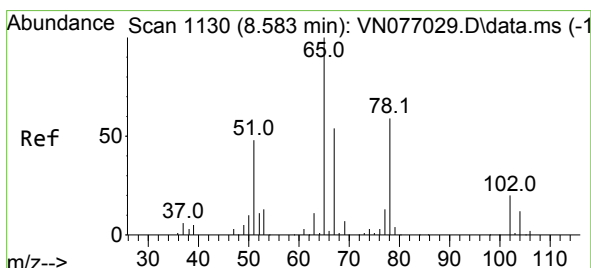
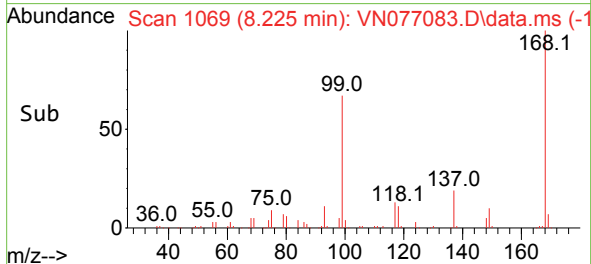
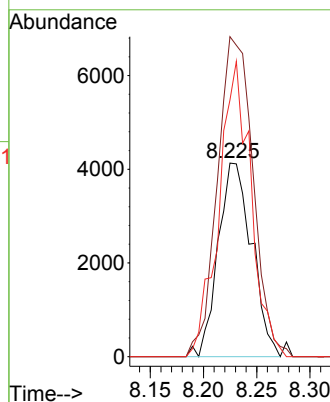
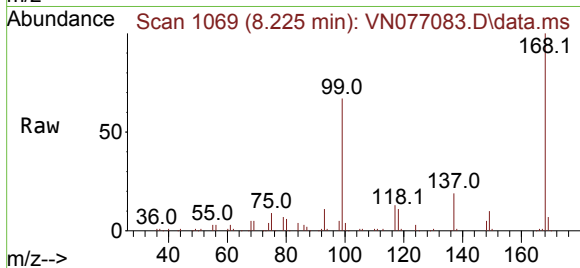
Tgt Ion: 56 Resp: 9082

Ion Ratio Lower Upper

56 100

69 165.3 22.8 34.2#

84 132.6 64.7 97.1#



#33

1,2-Dichloroethane-d4

Concen: 46.531 ug/l

RT: 8.584 min Scan# 1130

Delta R.T. 0.001 min

Lab File: VN077083.D

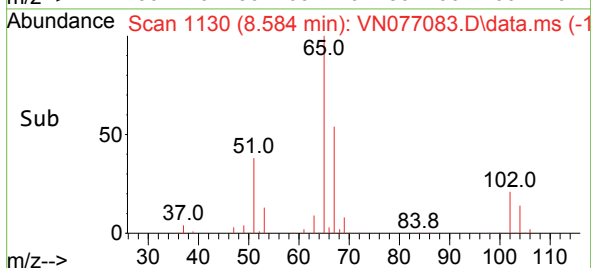
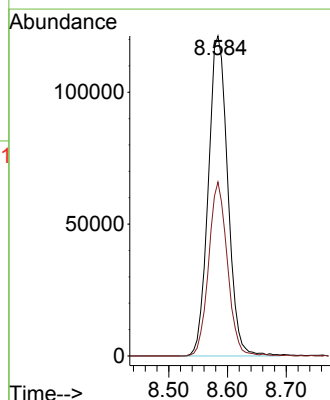
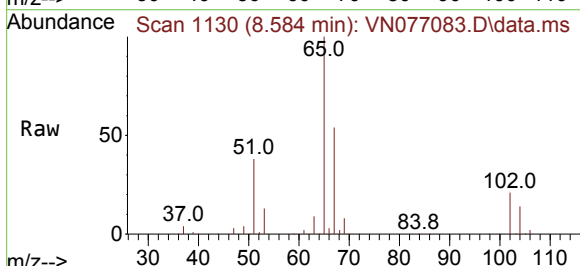
Acq: 21 Mar 2023 11:29

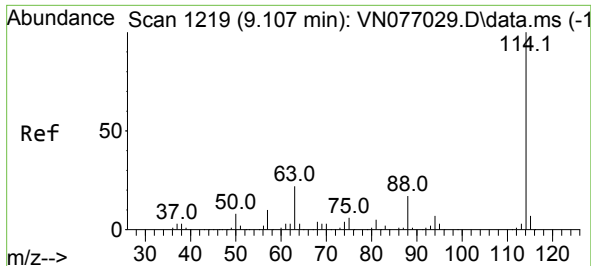
Tgt Ion: 65 Resp: 279071

Ion Ratio Lower Upper

65 100

67 52.2 0.0 105.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN077083.D

Acq: 21 Mar 2023 11:29

Instrument :

MSVOA_N

ClientSampleId :

VN0321MBL01

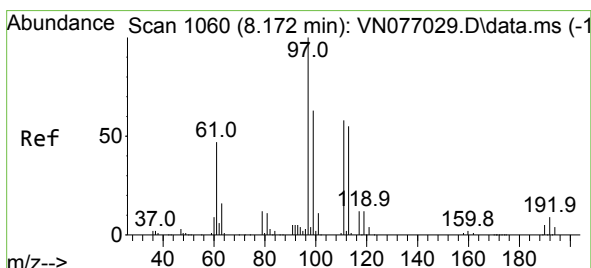
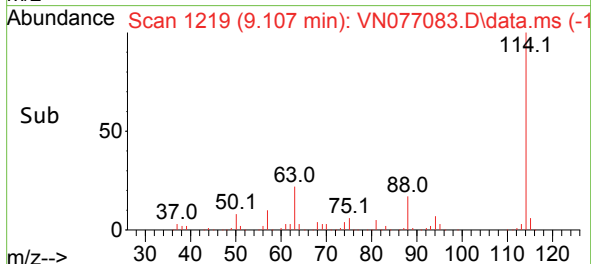
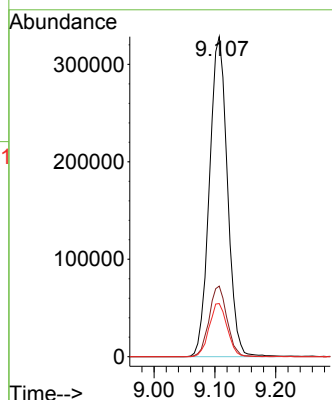
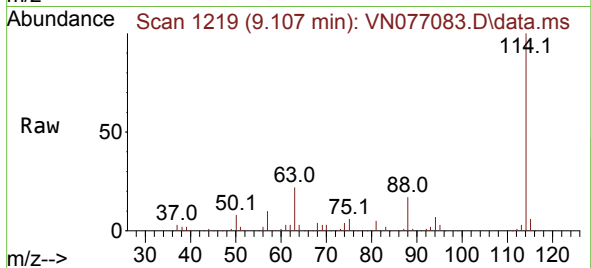
Tgt Ion:114 Resp: 673951

Ion Ratio Lower Upper

114 100

63 22.0 0.0 44.6

88 16.6 0.0 33.8



#35

Dibromofluoromethane

Concen: 45.484 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. 0.000 min

Lab File: VN077083.D

Acq: 21 Mar 2023 11:29

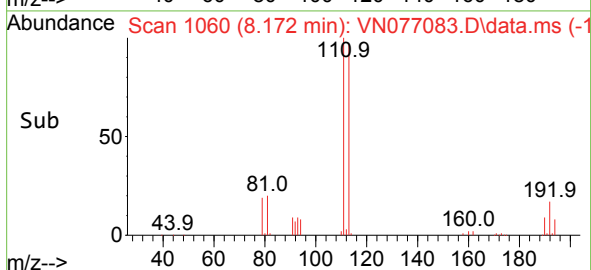
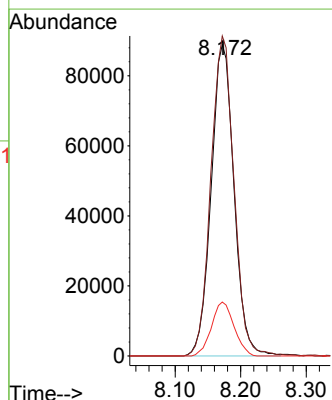
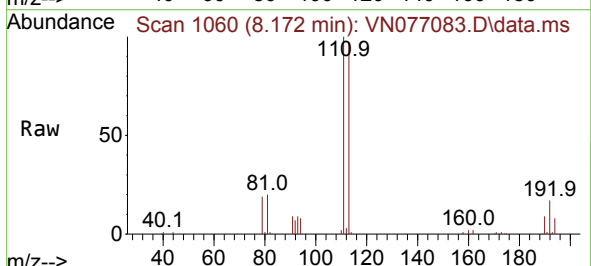
Tgt Ion:113 Resp: 214676

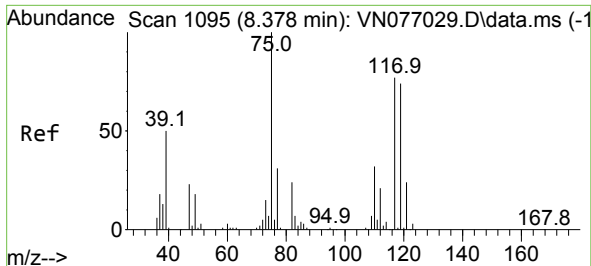
Ion Ratio Lower Upper

113 100

111 103.8 82.2 123.2

192 17.2 13.0 19.6





#36

1,1-Dichloropropene

Concen: 4.531 ug/l

RT: 8.231 min Scan# 1069

Delta R.T. -0.147 min

Lab File: VN077083.D

Acq: 21 Mar 2023 11:29

Instrument :

MSVOA_N

ClientSampleId :

VN0321MBL01

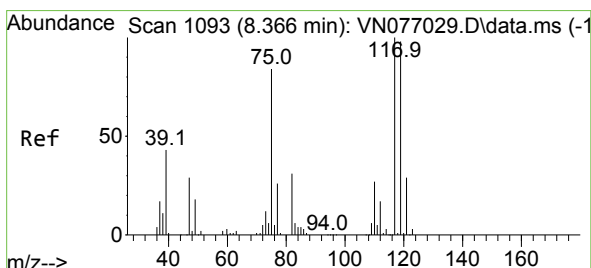
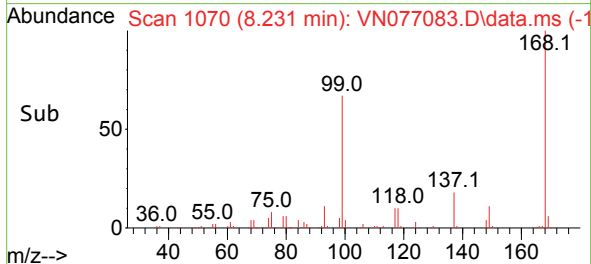
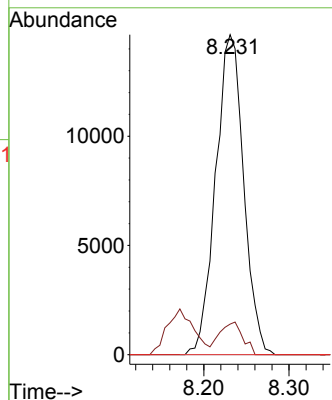
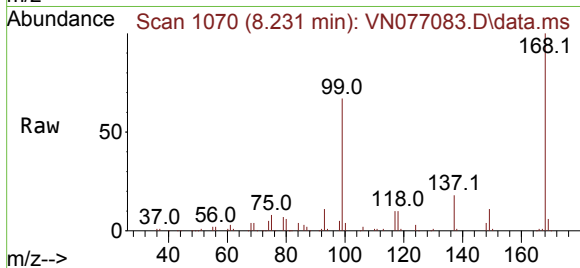
Tgt Ion: 75 Resp: 33401

Ion Ratio Lower Upper

75 100

110 8.5 15.9 47.7#

77 0.0 24.3 36.5#



#38

Carbon Tetrachloride

Concen: 5.921 ug/l

RT: 8.225 min Scan# 1069

Delta R.T. -0.141 min

Lab File: VN077083.D

Acq: 21 Mar 2023 11:29

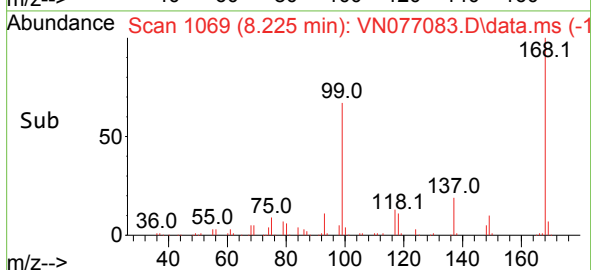
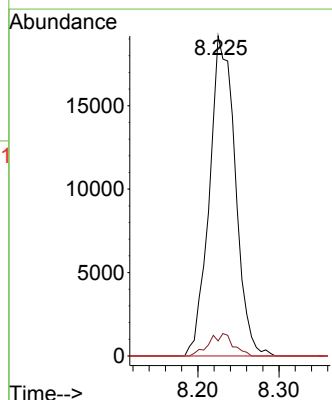
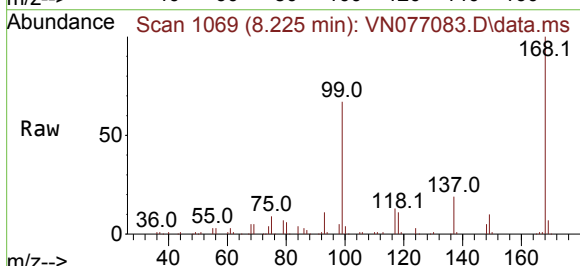
Tgt Ion: 117 Resp: 42514

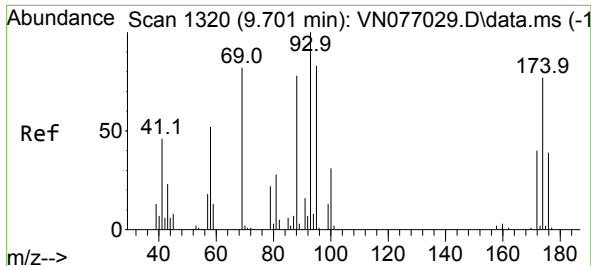
Ion Ratio Lower Upper

117 100

119 4.7 78.2 117.2#

121 0.0 23.2 34.8#

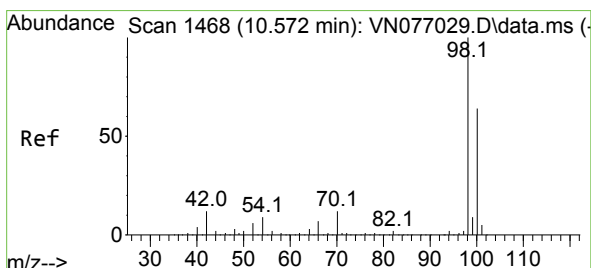
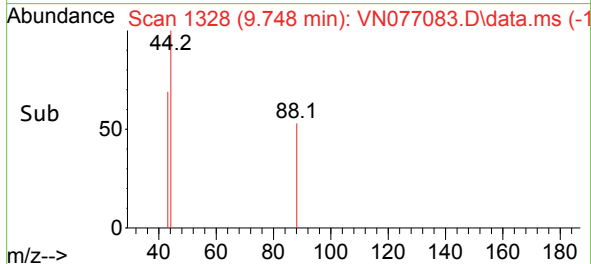
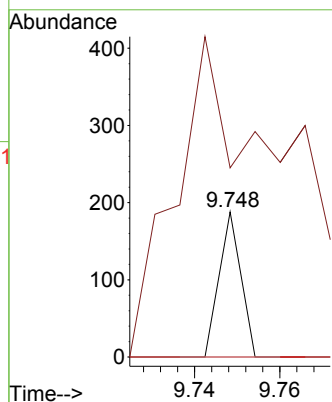
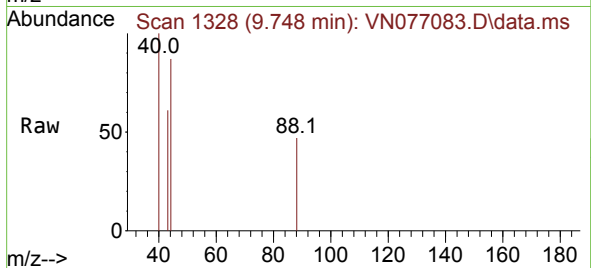




#49
1,4-Dioxane
Concen: 0.656 ug/l
RT: 9.748 min Scan# 11
Delta R.T. 0.047 min
Lab File: VN077083.D
Acq: 21 Mar 2023 11:29

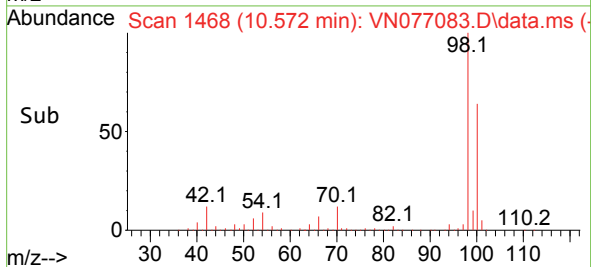
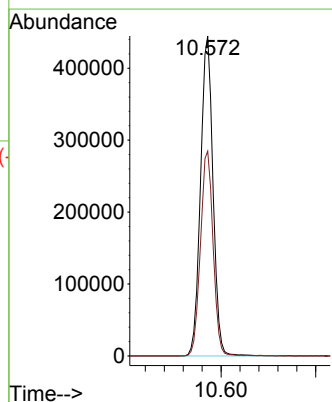
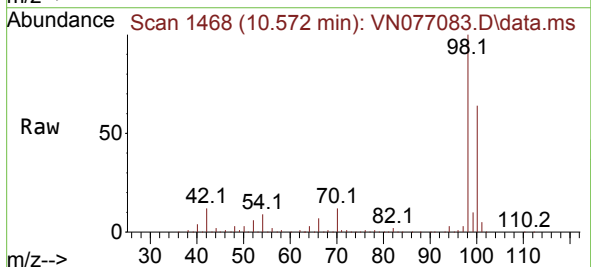
Instrument :
MSVOA_N
ClientSampleId :
VN0321MBL01

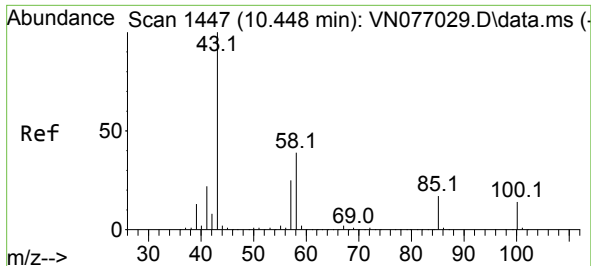
Tgt Ion: 88 Resp: 66
Ion Ratio Lower Upper
88 100
43 1089.4 22.2 33.2#
58 0.0 60.8 91.2#



#50
Toluene-d8
Concen: 48.165 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. 0.000 min
Lab File: VN077083.D
Acq: 21 Mar 2023 11:29

Tgt Ion: 98 Resp: 812040
Ion Ratio Lower Upper
98 100
100 64.8 51.6 77.4





#51

4-Methyl-2-Pentanone

Concen: 0.281 ug/l

RT: 10.454 min Scan# 1447

Delta R.T. 0.006 min

Lab File: VN077083.D

Acq: 21 Mar 2023 11:29

Instrument :

MSVOA_N

ClientSampleId :

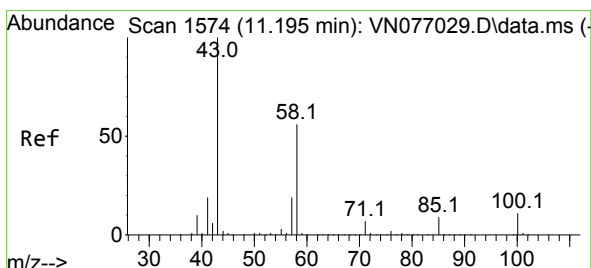
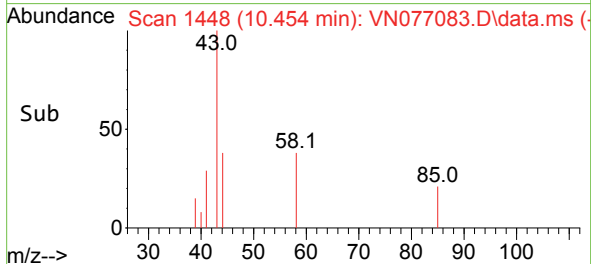
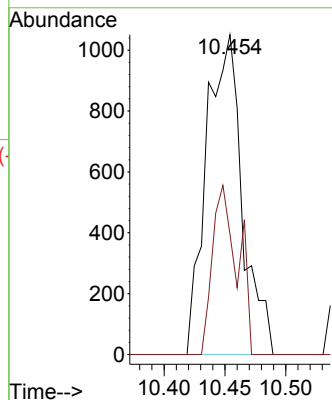
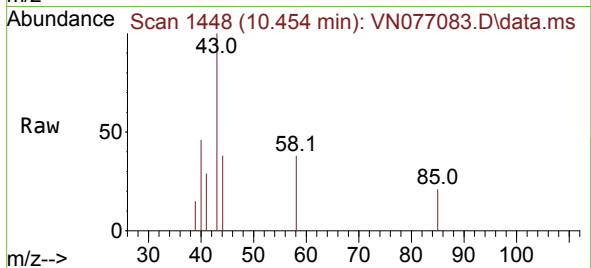
VN0321MBL01

Tgt Ion: 43 Resp: 2156

Ion Ratio Lower Upper

43 100

58 37.1 31.1 46.7



#59

2-Hexanone

Concen: 0.740 ug/l

RT: 11.207 min Scan# 1576

Delta R.T. 0.012 min

Lab File: VN077083.D

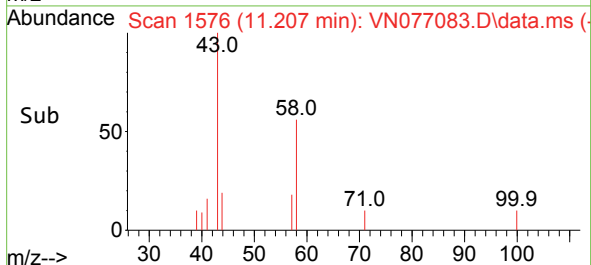
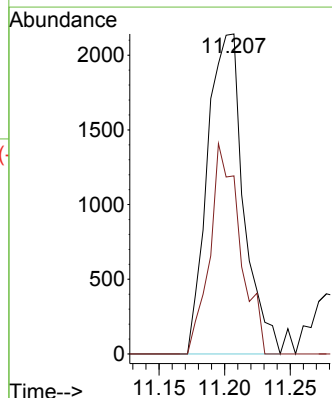
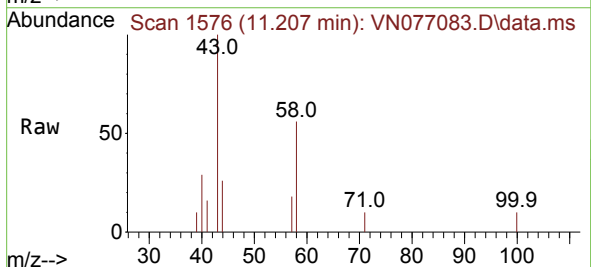
Acq: 21 Mar 2023 11:29

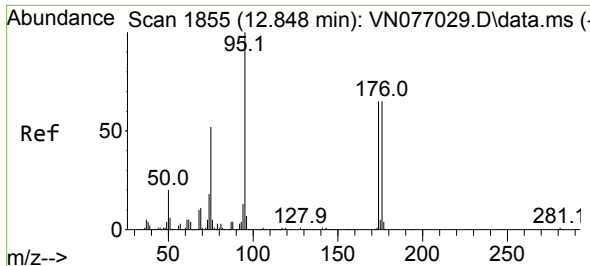
Tgt Ion: 43 Resp: 4118

Ion Ratio Lower Upper

43 100

58 54.9 27.7 83.1

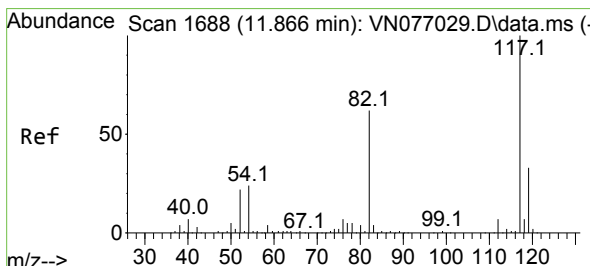
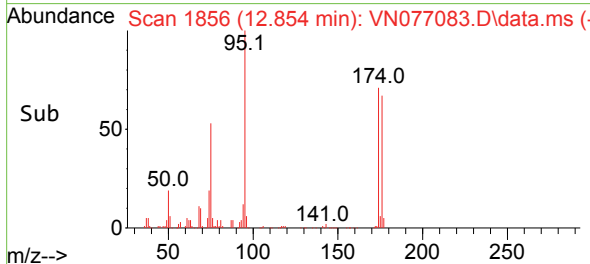
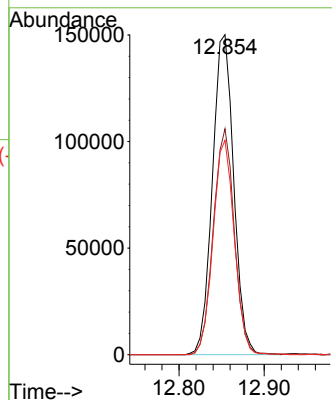
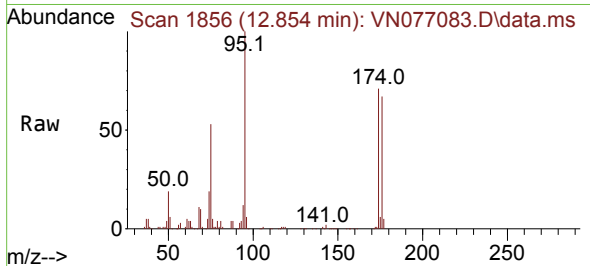




#62
4-Bromofluorobenzene
Concen: 43.746 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077083.D
Acq: 21 Mar 2023 11:29

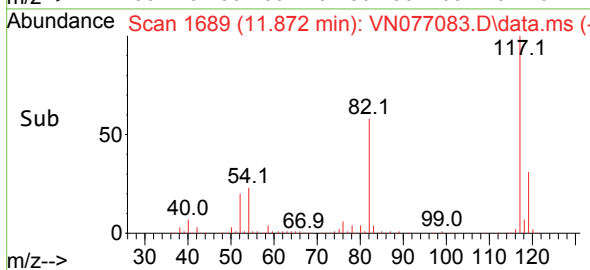
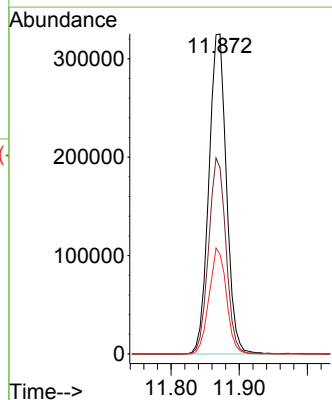
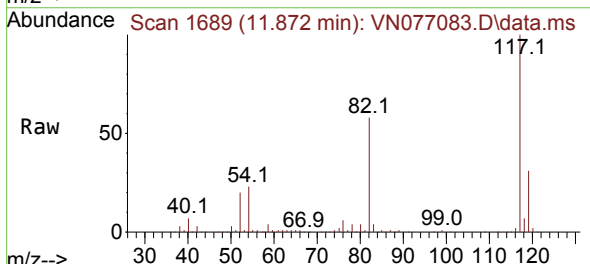
Instrument :
MSVOA_N
ClientSampleId :
VN0321MBL01

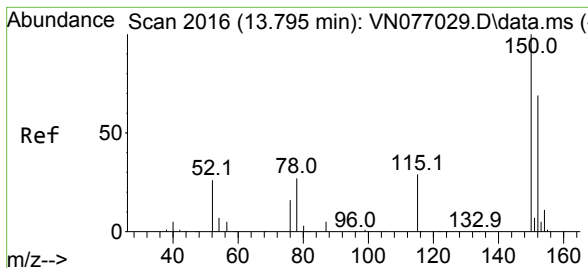
Tgt Ion: 95 Resp: 260620
Ion Ratio Lower Upper
95 100
174 69.7 0.0 136.6
176 66.8 0.0 130.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.872 min Scan# 1689
Delta R.T. 0.006 min
Lab File: VN077083.D
Acq: 21 Mar 2023 11:29

Tgt Ion: 117 Resp: 584089
Ion Ratio Lower Upper
117 100
82 58.2 49.4 74.0
119 31.2 26.5 39.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.795 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN077083.D

Acq: 21 Mar 2023 11:29

Instrument :

MSVOA_N

ClientSampleId :

VN0321MBL01

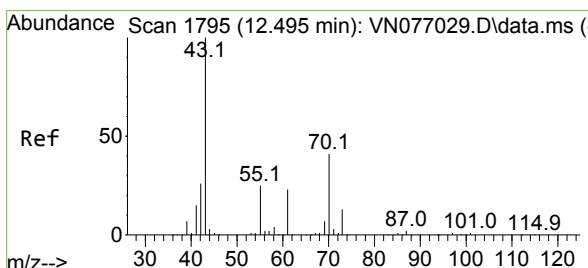
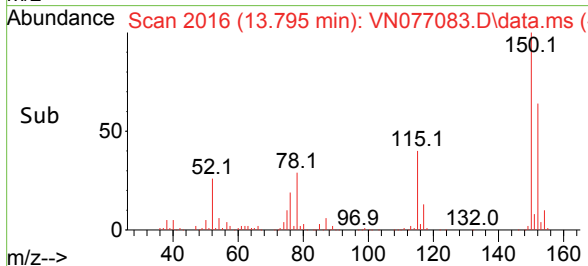
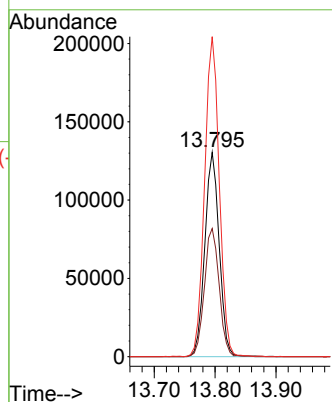
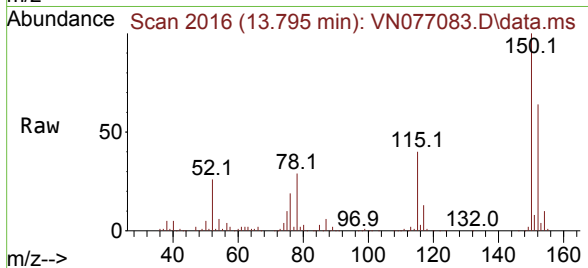
Tgt Ion:152 Resp: 214175

Ion Ratio Lower Upper

152 100

115 64.4 31.9 95.7

150 159.5 0.0 348.0



#74

N-ethyl acetate

Concen: 0.227 ug/l

RT: 12.495 min Scan# 1795

Delta R.T. 0.000 min

Lab File: VN077083.D

Acq: 21 Mar 2023 11:29

Tgt Ion: 43 Resp: 1886

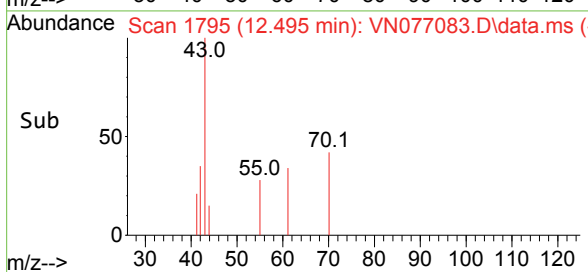
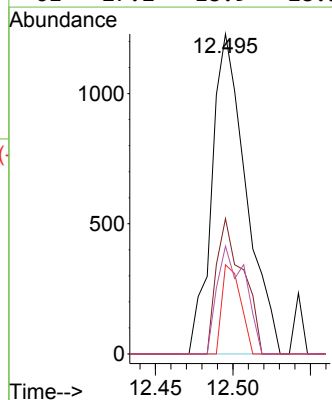
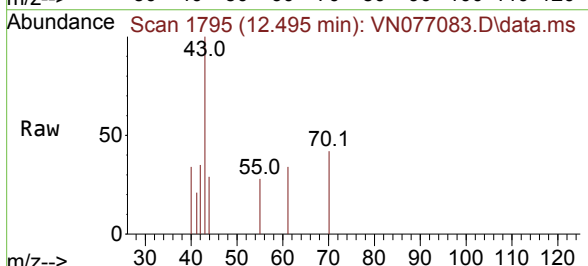
Ion Ratio Lower Upper

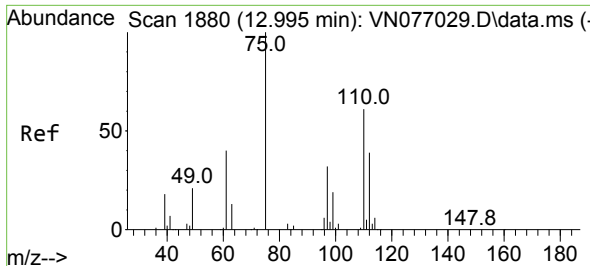
43 100

70 32.8 33.6 50.4#

55 15.1 20.3 30.5#

61 27.2 18.9 28.3

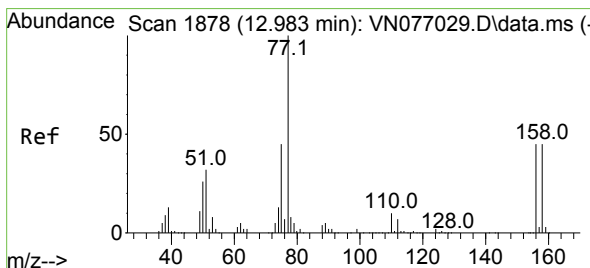
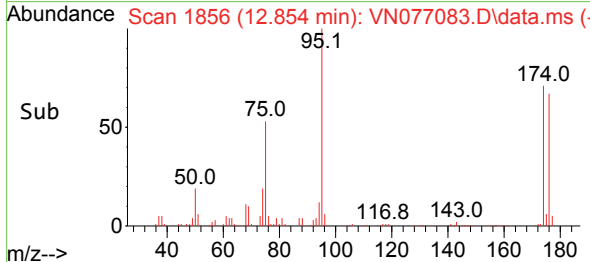
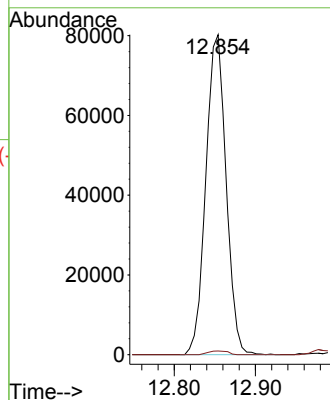
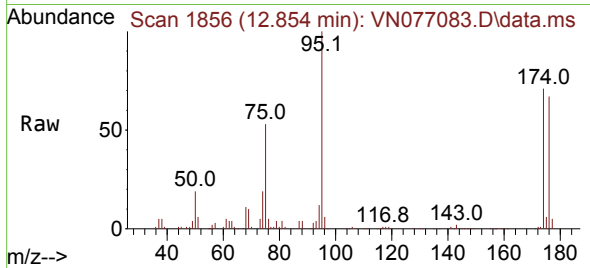




#76
1,2,3-Trichloropropane
Concen: 25.083 ug/l
RT: 12.854 min Scan# 11
Delta R.T. -0.141 min
Lab File: VN077083.D
Acq: 21 Mar 2023 11:29

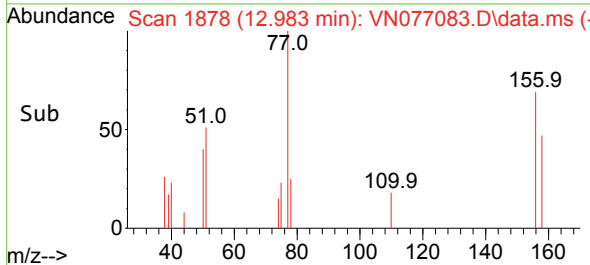
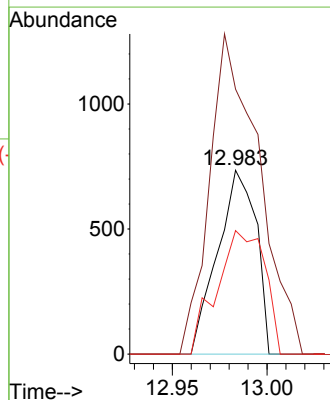
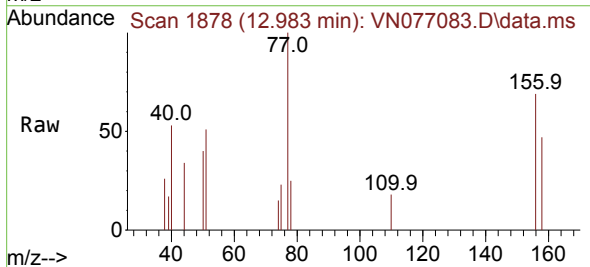
Instrument :
MSVOA_N
ClientSampleId :
VN0321MBL01

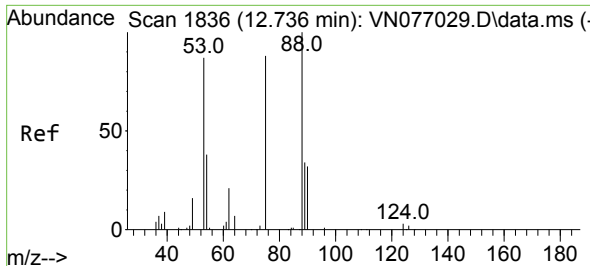
Tgt Ion: 75 Resp: 138956
Ion Ratio Lower Upper
75 100
77 1.1 107.3 322.0#



#77
Bromobenzene
Concen: 0.241 ug/l
RT: 12.983 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VN077083.D
Acq: 21 Mar 2023 11:29

Tgt Ion:156 Resp: 1037
Ion Ratio Lower Upper
156 100
77 222.7 124.8 374.3
158 83.7 48.6 145.9

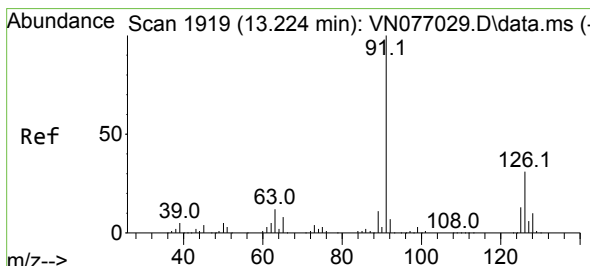
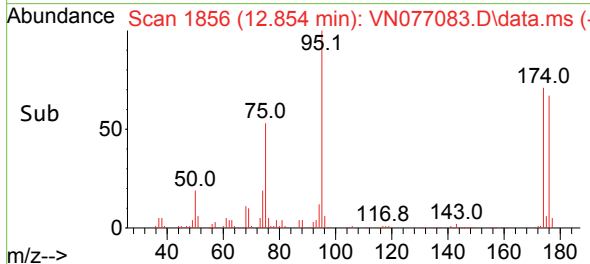
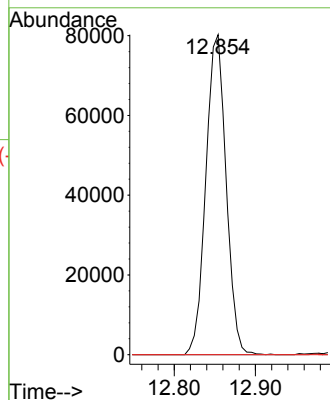
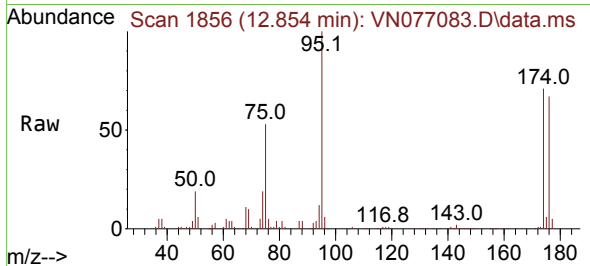




#81
trans-1,4-Dichloro-2-butene
Concen: 69.041 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.118 min
Lab File: VN077083.D
Acq: 21 Mar 2023 11:29

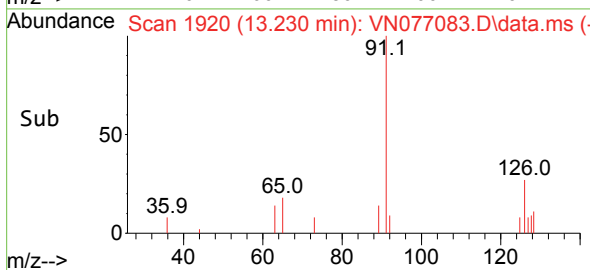
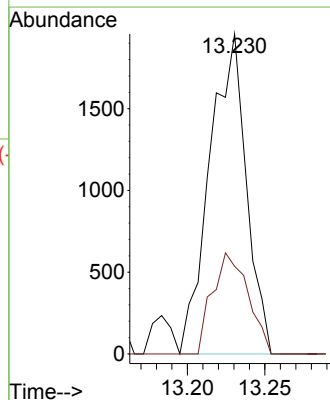
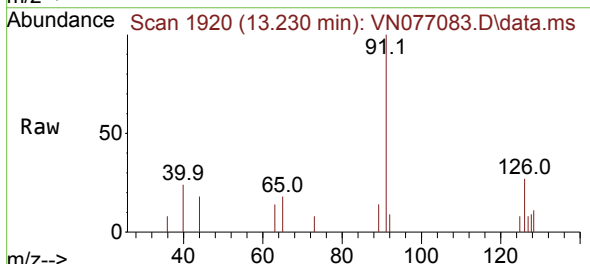
Instrument :
MSVOA_N
ClientSampleId :
VN0321MBL01

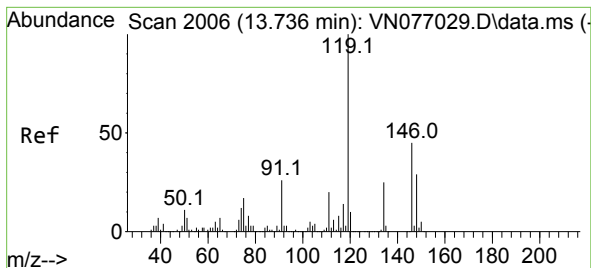
Tgt Ion: 75 Resp: 138956
Ion Ratio Lower Upper
75 100
53 0.0 80.8 121.2#
89 0.0 34.2 51.4#



#82
4-Chlorotoluene
Concen: 0.239 ug/l
RT: 13.230 min Scan# 1920
Delta R.T. 0.006 min
Lab File: VN077083.D
Acq: 21 Mar 2023 11:29

Tgt Ion: 91 Resp: 3213
Ion Ratio Lower Upper
91 100
126 30.7 15.5 46.5





#87

1,3-Dichlorobenzene

Concen: 0.348 ug/l

RT: 13.736 min Scan# 2006

Delta R.T. 0.000 min

Lab File: VN077083.D

Acq: 21 Mar 2023 11:29

Instrument :

MSVOA_N

ClientSampleId :

VN0321MBL01

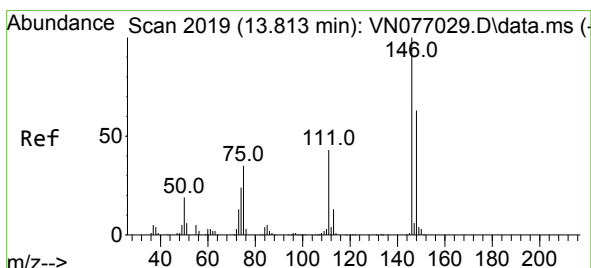
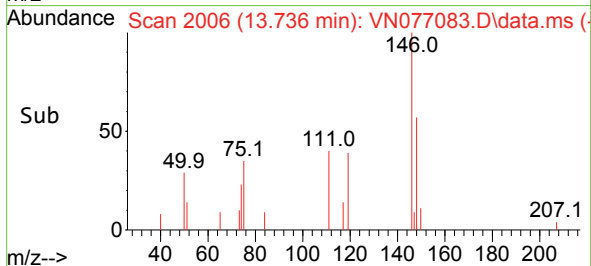
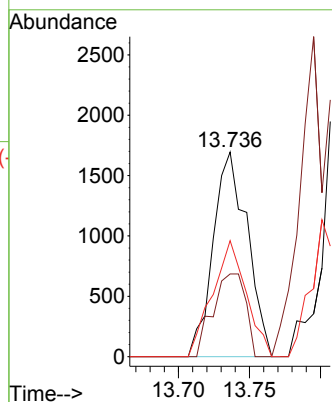
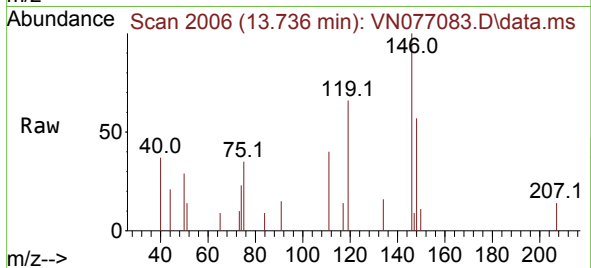
Tgt Ion:146 Resp: 2826

Ion Ratio Lower Upper

146 100

111 38.8 21.9 65.5

148 56.3 32.1 96.5



#88

1,4-Dichlorobenzene

Concen: 0.350 ug/l

RT: 13.736 min Scan# 2006

Delta R.T. -0.077 min

Lab File: VN077083.D

Acq: 21 Mar 2023 11:29

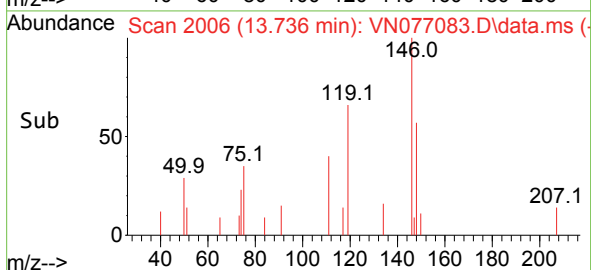
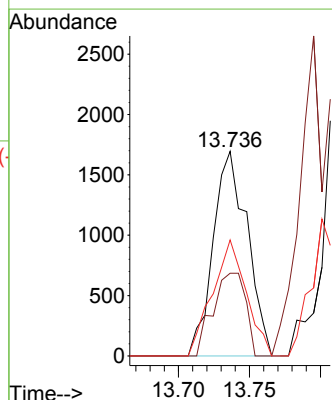
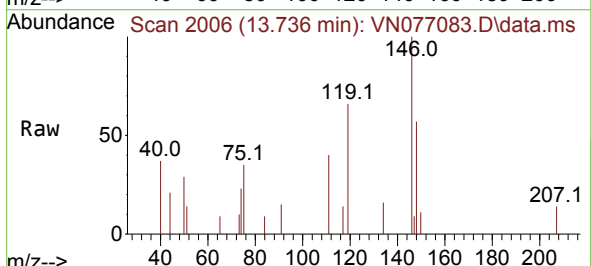
Tgt Ion:146 Resp: 2826

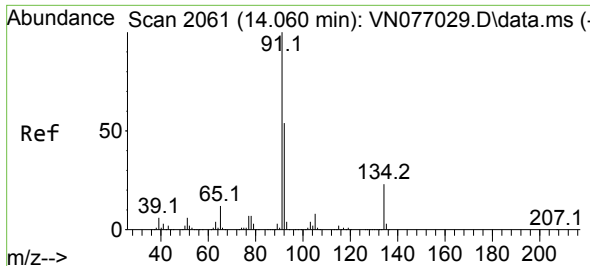
Ion Ratio Lower Upper

146 100

111 38.8 21.5 64.5

148 56.3 31.9 95.9

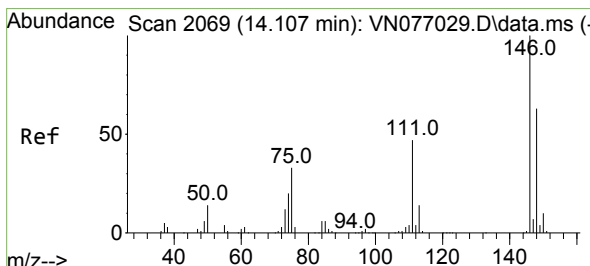
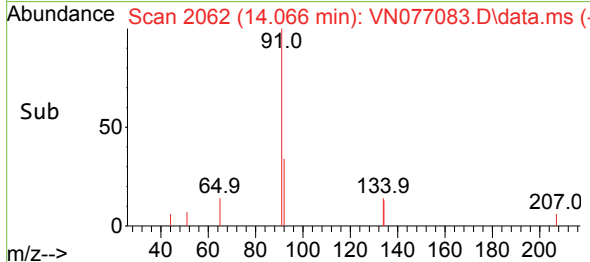
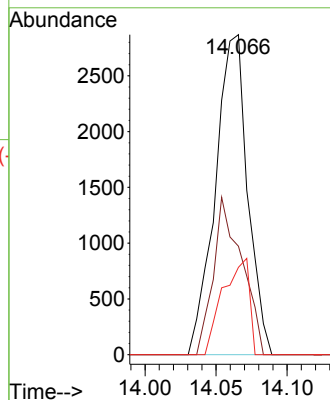
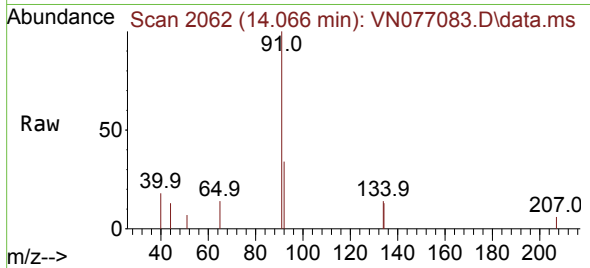




#89
n-Butylbenzene
Concen: 0.337 ug/l
RT: 14.066 min Scan# 2061
Delta R.T. 0.006 min
Lab File: VN077083.D
Acq: 21 Mar 2023 11:29

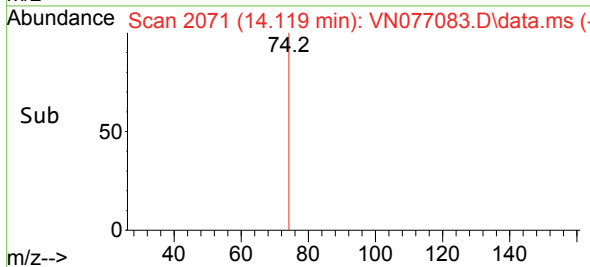
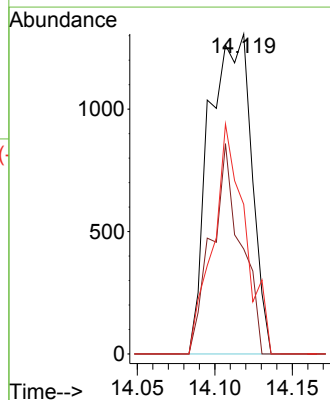
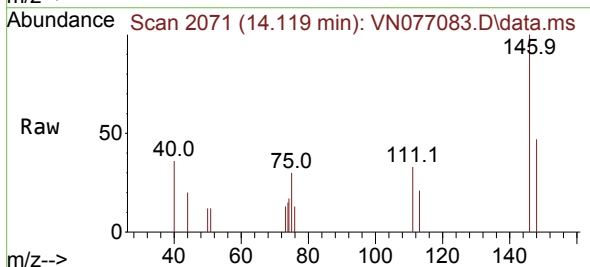
Instrument :
MSVOA_N
ClientSampleId :
VN0321MBL01

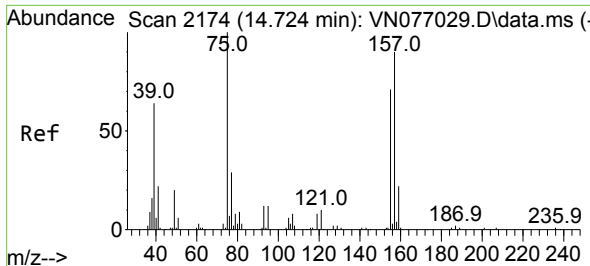
Tgt Ion:	91	Resp:	4539
Ion	Ratio	Lower	Upper
91	100		
92	43.4	26.5	79.5
134	24.6	11.7	35.1



#91
1,2-Dichlorobenzene
Concen: 0.305 ug/l
RT: 14.119 min Scan# 2071
Delta R.T. 0.012 min
Lab File: VN077083.D
Acq: 21 Mar 2023 11:29

Tgt Ion:	146	Resp:	2471
Ion	Ratio	Lower	Upper
146	100		
111	45.9	22.6	67.7
148	54.8	31.6	95.0

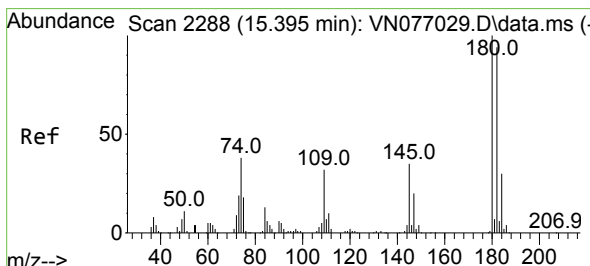
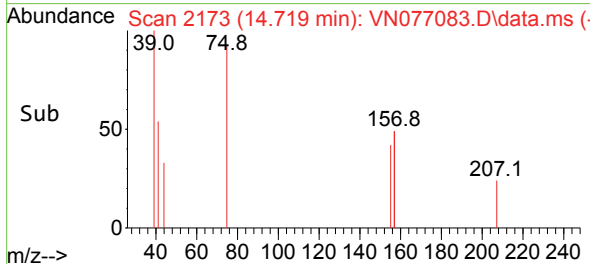
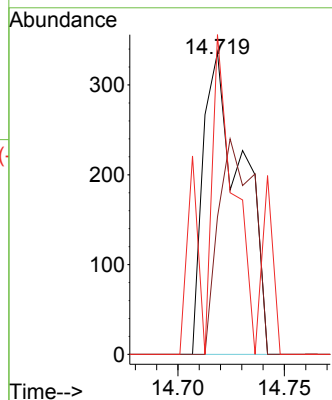
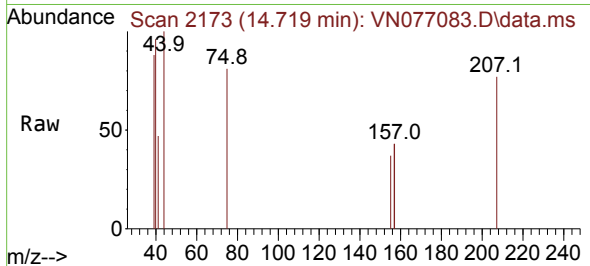




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.332 ug/l
 RT: 14.719 min Scan# 2173
 Delta R.T. -0.005 min
 Lab File: VN077083.D
 Acq: 21 Mar 2023 11:29

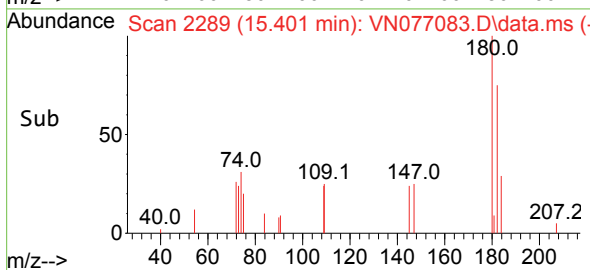
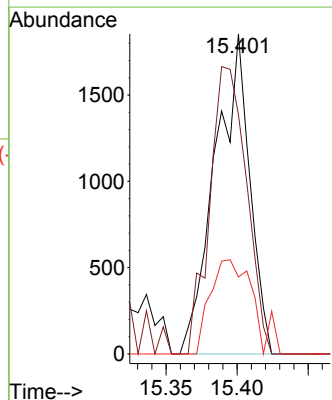
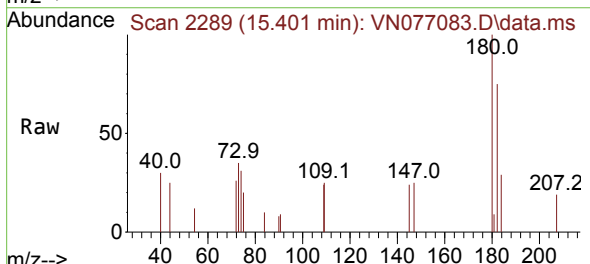
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0321MBL01

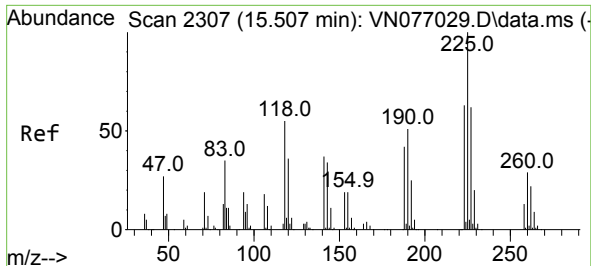
Tgt Ion: 75 Resp: 428
 Ion Ratio Lower Upper
 75 100
 155 64.5 36.1 108.3
 157 76.6 45.8 137.3



#93
 1,2,4-Trichlorobenzene
 Concen: 0.858 ug/l
 RT: 15.401 min Scan# 2289
 Delta R.T. 0.006 min
 Lab File: VN077083.D
 Acq: 21 Mar 2023 11:29

Tgt Ion: 180 Resp: 3140
 Ion Ratio Lower Upper
 180 100
 182 95.3 47.3 141.9
 145 36.5 16.9 50.7

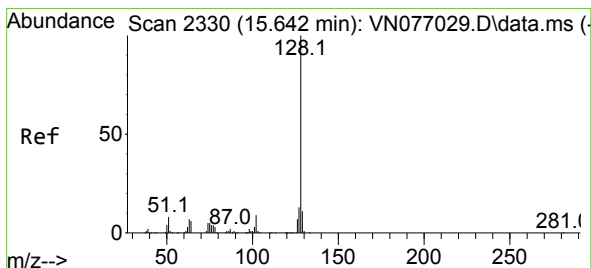
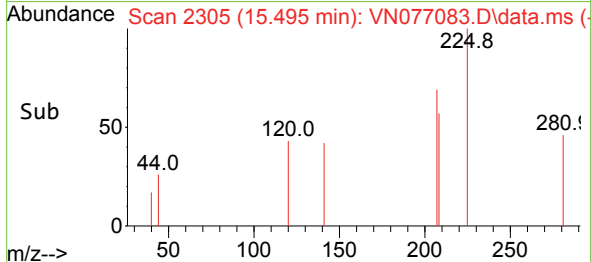
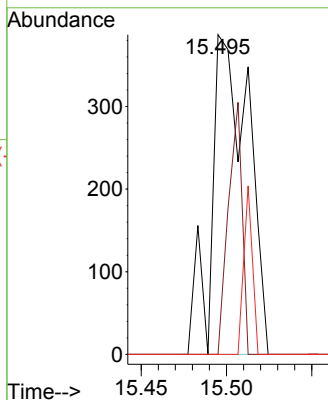
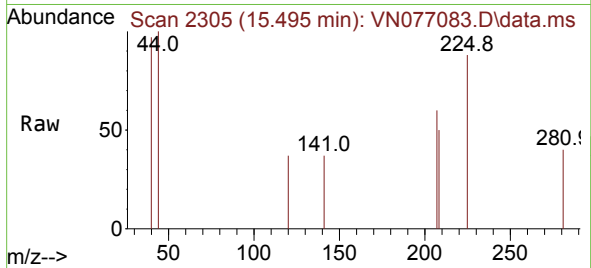




#94
Hexachlorobutadiene
Concen: 0.289 ug/l
RT: 15.495 min Scan# 21
Delta R.T. -0.012 min
Lab File: VN077083.D
Acq: 21 Mar 2023 11:29

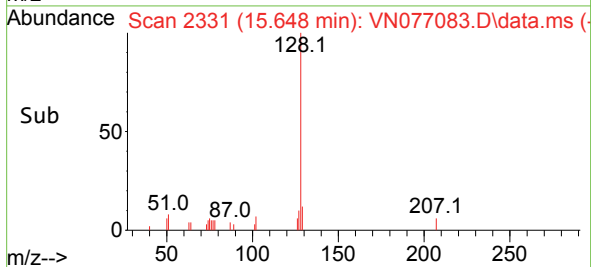
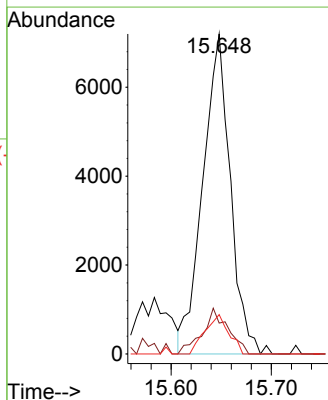
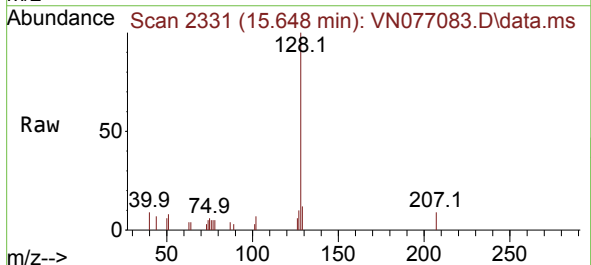
Instrument :
MSVOA_N
ClientSampleId :
VN0321MBL01

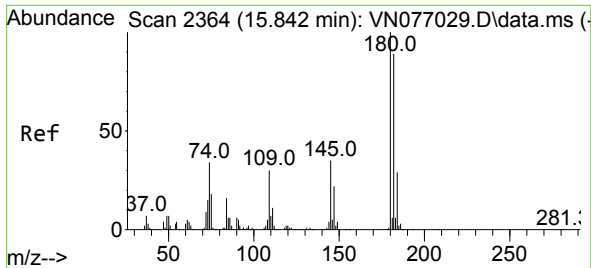
Tgt Ion:225 Resp: 582
Ion Ratio Lower Upper
225 100
223 29.2 31.6 95.0#
227 12.4 31.3 93.8#



#95
Naphthalene
Concen: 2.838 ug/l
RT: 15.648 min Scan# 2331
Delta R.T. 0.006 min
Lab File: VN077083.D
Acq: 21 Mar 2023 11:29

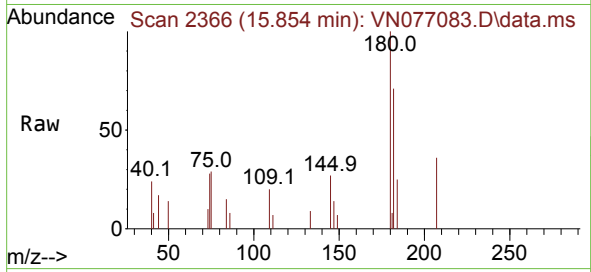
Tgt Ion:128 Resp: 13708
Ion Ratio Lower Upper
128 100
127 13.4 10.0 15.0
129 10.6 8.6 13.0





#96
 1,2,3-Trichlorobenzene
 Concen: 1.172 ug/l
 RT: 15.854 min Scan# 21
 Delta R.T. 0.012 min
 Lab File: VN077083.D
 Acq: 21 Mar 2023 11:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0321MBL01



Tgt Ion	Ratio	Lower	Upper
180	100		
182	90.8	47.4	142.2
145	36.2	17.9	53.8

