

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050923\
 Data File : VN077631.D
 Acq On : 09 May 2023 14:44
 Operator : JC\MD
 Sample : VN0509WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0509WBL01

Quant Time: May 10 04:44:09 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N050923W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 09 13:52:31 2023
 Response via : Initial Calibration

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

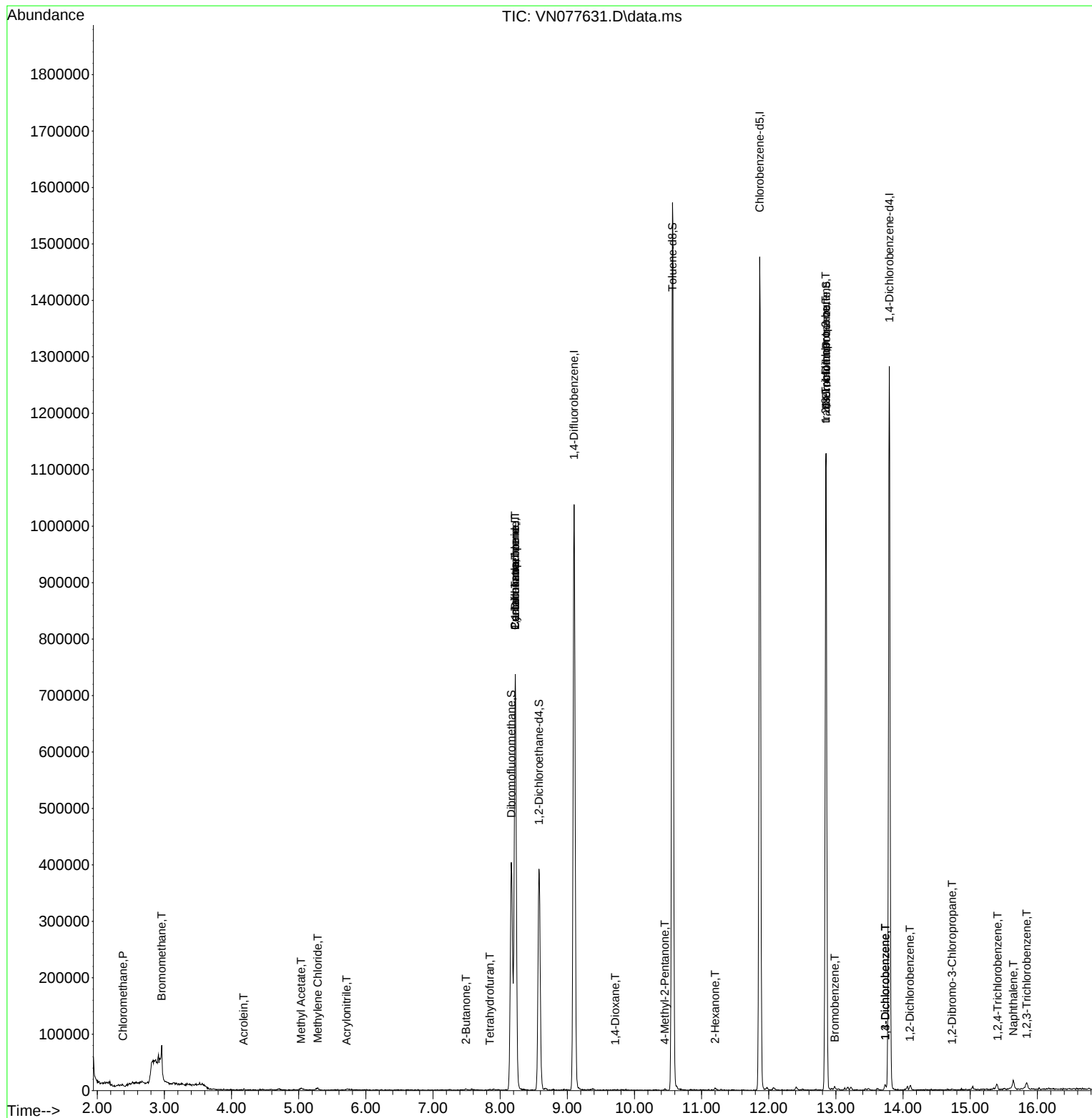
Internal Standards						
1) Pentafluorobenzene	8.225	168	533612	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.101	114	965864	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	904535	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	339814	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.578	65	330026	48.767	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.540%		
35) Dibromofluoromethane	8.166	113	297507	49.388	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.780%		
50) Toluene-d8	10.566	98	1184262	51.926	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	103.860%		
62) 4-Bromofluorobenzene	12.854	95	407407	52.816	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	105.640%		
Target Compounds					Qvalue	
3) Chloromethane	2.384	50	2502	0.465	ug/l #	70
5) Bromomethane	2.960	94	1147	0.203	ug/l #	57
13) Acrolein	4.178	56	1118	1.449	ug/l #	69
15) Acrylonitrile	5.713	53	1718	0.872	ug/l #	73
18) Methyl Acetate	5.037	43	4674	0.734	ug/l	89
20) Methylene Chloride	5.284	84	1590	0.239	ug/l #	85
25) 2-Butanone	7.489	43	1359	0.579	ug/l #	37
29) Tetrahydrofuran	7.848	42	651	0.451	ug/l #	49
31) Cyclohexane	8.225	56	10315	1.193	ug/l #	11
36) 1,1-Dichloropropene	8.225	75	43280	5.206	ug/l #	50
38) Carbon Tetrachloride	8.225	117	56736	6.247	ug/l #	15
49) 1,4-Dioxane	9.713	88	74	0.636	ug/l #	1
51) 4-Methyl-2-Pentanone	10.454	43	1418	0.289	ug/l #	31
59) 2-Hexanone	11.201	43	2279	0.658	ug/l	99
71) Bromoform	12.854	173	2862	0.704	ug/l #	1
76) 1,2,3-Trichloropropane	12.848	75	211772	30.199	ug/l #	1
77) Bromobenzene	12.983	156	1409	0.210	ug/l	71
81) trans-1,4-Dichloro-2-b...	12.848	75	211772	96.157	ug/l #	15
87) 1,3-Dichlorobenzene	13.736	146	3806	0.326	ug/l	90
88) 1,4-Dichlorobenzene	13.736	146	3806	0.328	ug/l	93
91) 1,2-Dichlorobenzene	14.101	146	3922	0.338	ug/l	93
92) 1,2-Dibromo-3-Chloropr...	14.730	75	652	0.442	ug/l #	25
93) 1,2,4-Trichlorobenzene	15.407	180	4035	5.321	ug/l	92
95) Naphthalene	15.642	128	16457	5.607	ug/l #	95
96) 1,2,3-Trichlorobenzene	15.842	180	5812	5.645	ug/l	92

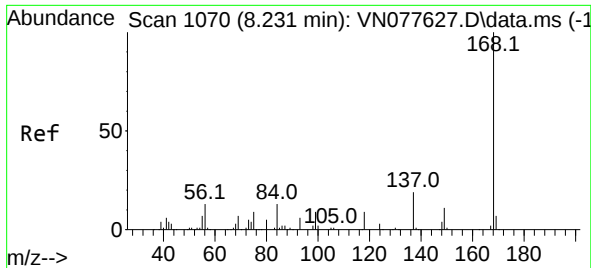
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050923\
Data File : VN077631.D
Acq On : 09 May 2023 14:44
Operator : JC\MD
Sample : VN0509WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0509WBL01

Quant Time: May 10 04:44:09 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N050923W.M
Quant Title : SW846 8260
QLast Update : Tue May 09 13:52:31 2023
Response via : Initial Calibration

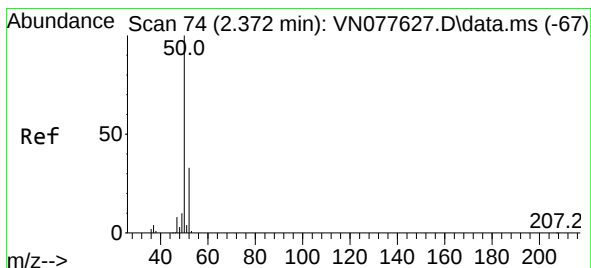
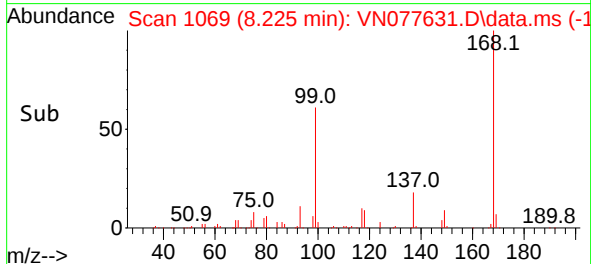
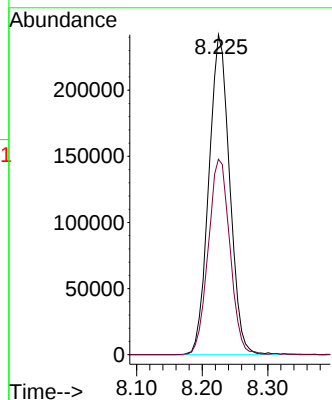
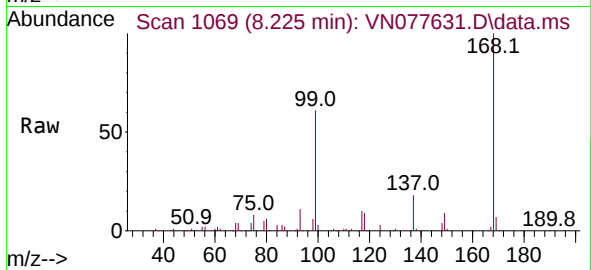




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.225 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN077631.D
Acq: 09 May 2023 14:44

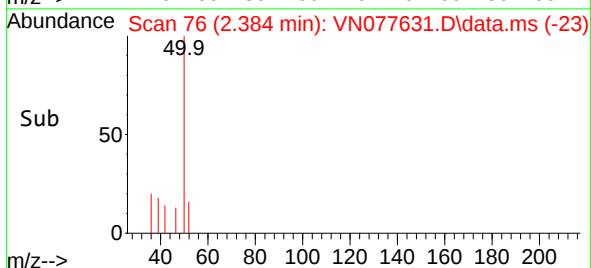
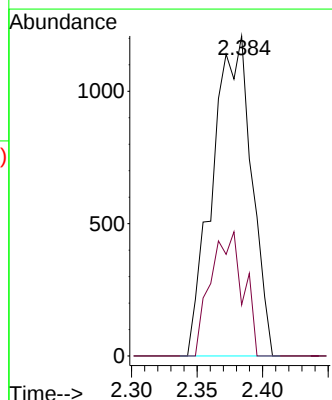
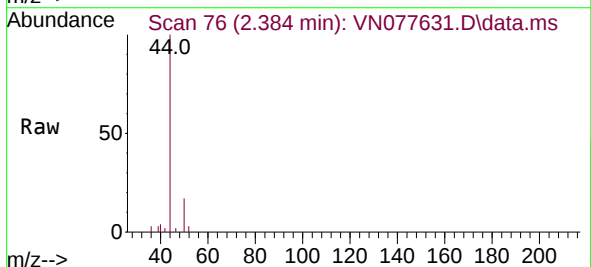
Instrument :
MSVOA_N
ClientSampleId :
VN0509WBL01

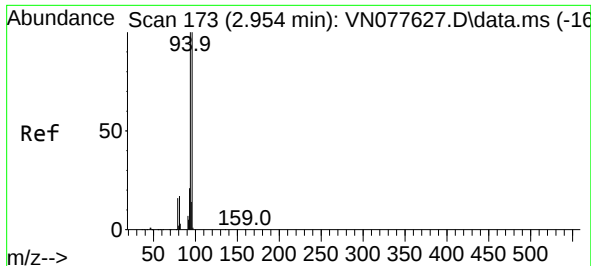
Tgt Ion:168 Resp: 533612
Ion Ratio Lower Upper
168 100
99 61.0 53.0 79.6



#3
Chloromethane
Concen: 0.465 ug/l
RT: 2.384 min Scan# 76
Delta R.T. 0.012 min
Lab File: VN077631.D
Acq: 09 May 2023 14:44

Tgt Ion: 50 Resp: 2502
Ion Ratio Lower Upper
50 100
52 16.0 26.5 39.7#

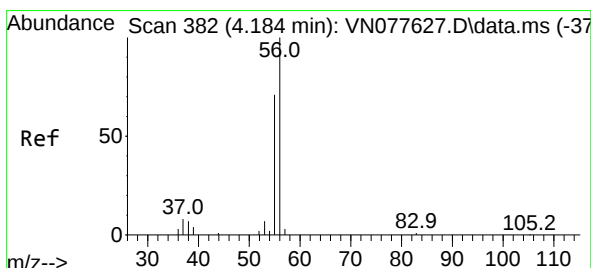
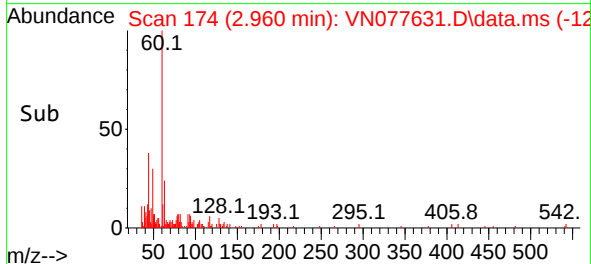
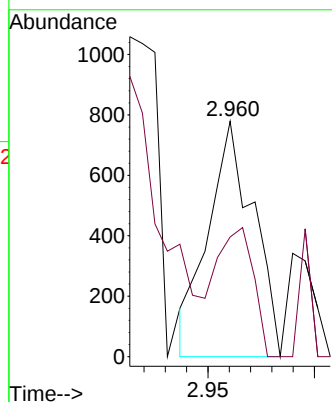
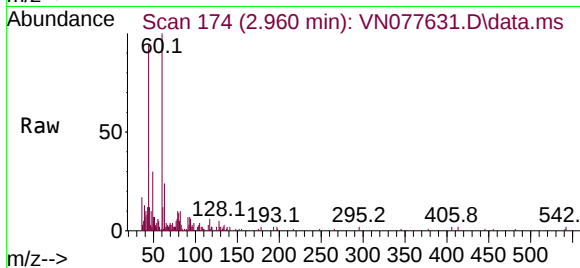




#5
Bromomethane
Concen: 0.203 ug/l
RT: 2.960 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN077631.D
Acq: 09 May 2023 14:44

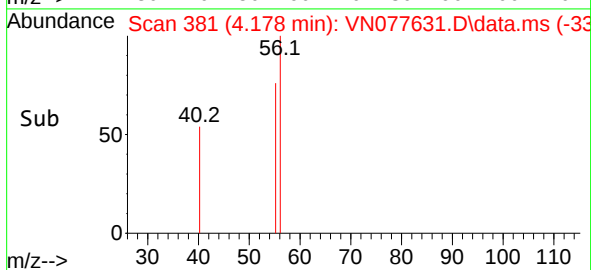
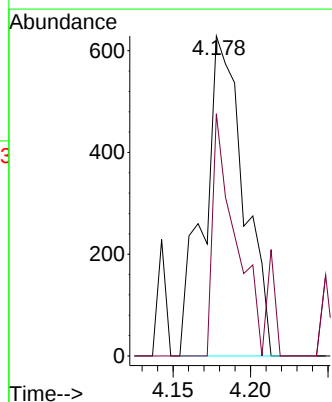
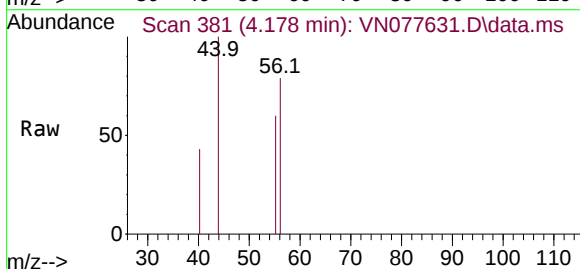
Instrument :
MSVOA_N
ClientSampleId :
VN0509WBL01

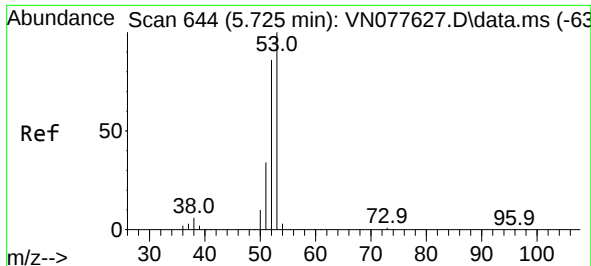
Tgt Ion: 94 Resp: 1147
Ion Ratio Lower Upper
94 100
96 50.8 73.1 109.7#



#13
Acrolein
Concen: 1.449 ug/l
RT: 4.178 min Scan# 381
Delta R.T. -0.006 min
Lab File: VN077631.D
Acq: 09 May 2023 14:44

Tgt Ion: 56 Resp: 1118
Ion Ratio Lower Upper
56 100
55 43.1 54.5 81.7#

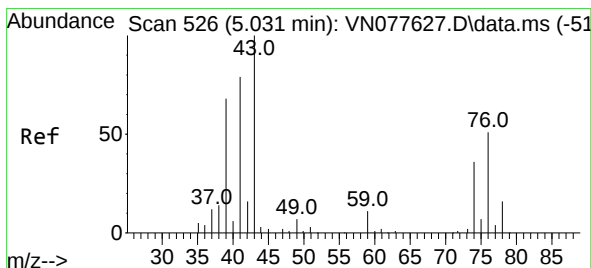
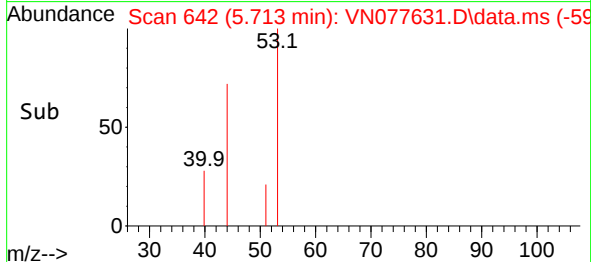
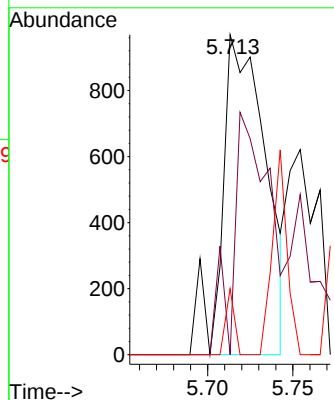
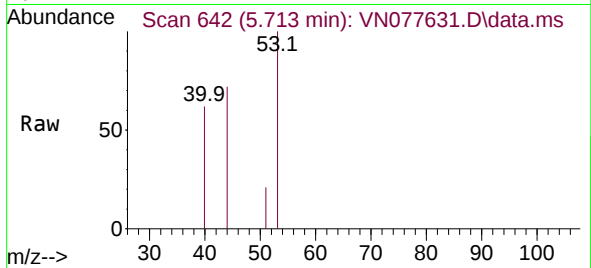




#15
Acrylonitrile
Concen: 0.872 ug/l
RT: 5.713 min Scan# 644
Delta R.T. -0.012 min
Lab File: VN077631.D
Acq: 09 May 2023 14:44

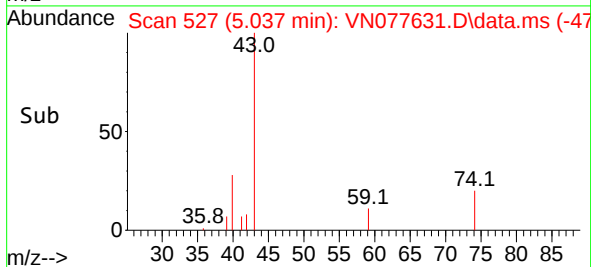
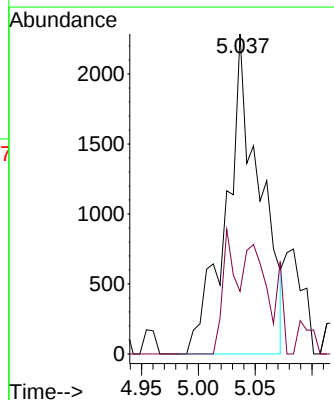
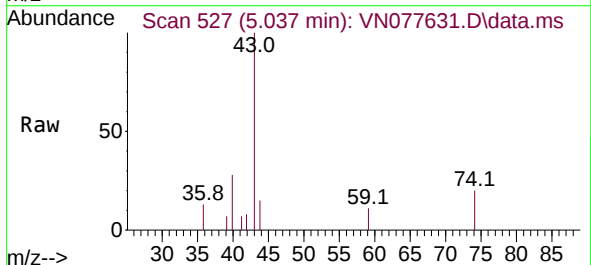
Instrument :
MSVOA_N
ClientSampleId :
VN0509WBL01

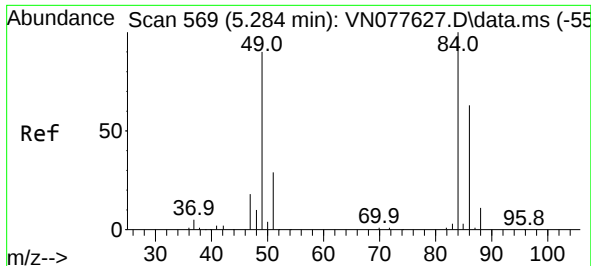
Tgt Ion: 53 Resp: 1718
Ion Ratio Lower Upper
53 100
52 68.7 65.3 97.9
51 4.1 28.9 43.3#



#18
Methyl Acetate
Concen: 0.734 ug/l
RT: 5.037 min Scan# 527
Delta R.T. 0.006 min
Lab File: VN077631.D
Acq: 09 May 2023 14:44

Tgt Ion: 43 Resp: 4674
Ion Ratio Lower Upper
43 100
74 26.6 26.2 39.4

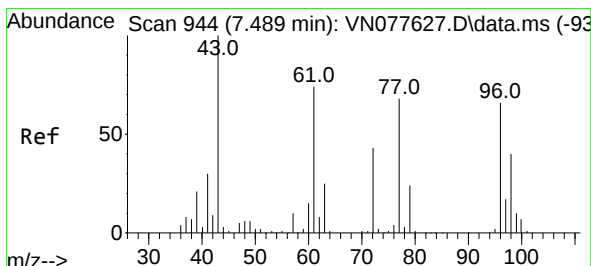
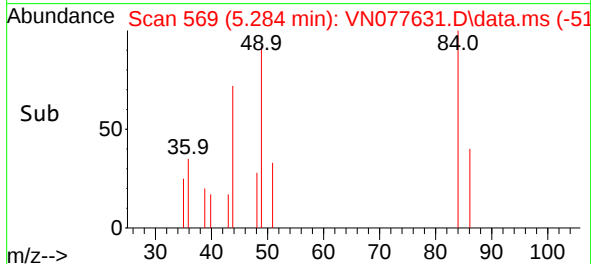
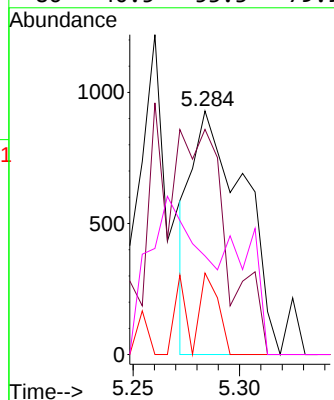
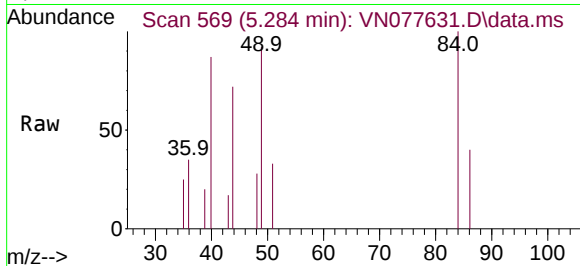




#20
Methylene Chloride
Concen: 0.239 ug/l
RT: 5.284 min Scan# 569
Delta R.T. -0.000 min
Lab File: VN077631.D
Acq: 09 May 2023 14:44

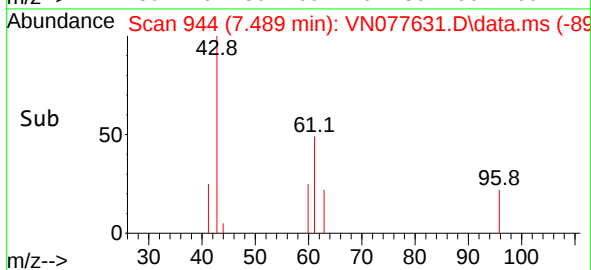
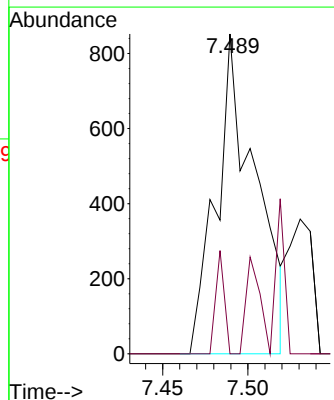
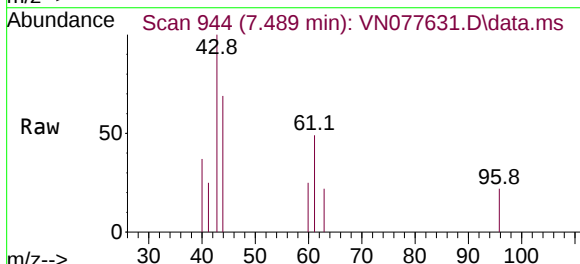
Instrument :
MSVOA_N
ClientSampleId :
VN0509WBL01

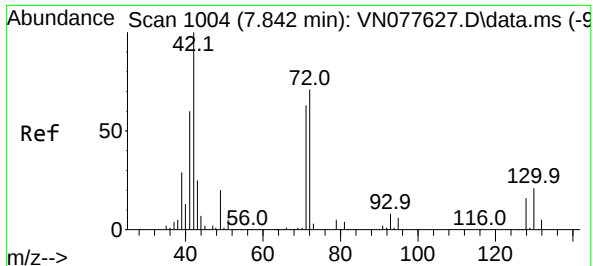
Tgt Ion:	84	Resp:	1590
Ion	Ratio	Lower	Upper
84	100		
49	92.5	79.7	119.5
51	33.5	25.2	37.8
86	40.5	53.3	79.9



#25
2-Butanone
Concen: 0.579 ug/l
RT: 7.489 min Scan# 944
Delta R.T. 0.000 min
Lab File: VN077631.D
Acq: 09 May 2023 14:44

Tgt Ion:	43	Resp:	1359
Ion	Ratio	Lower	Upper
43	100		
72	0.0	30.2	45.2





#29

Tetrahydrofuran

Concen: 0.451 ug/l

RT: 7.848 min Scan# 1005

Delta R.T. 0.006 min

Lab File: VN077631.D

Acq: 09 May 2023 14:44

Instrument :

MSVOA_N

ClientSampleId :

VN0509WBL01

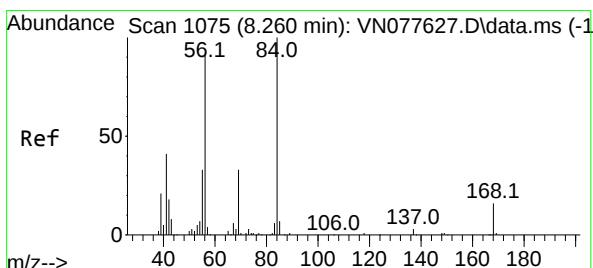
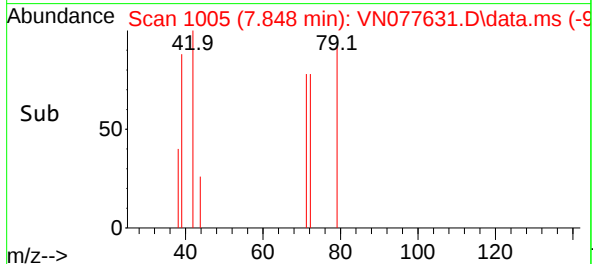
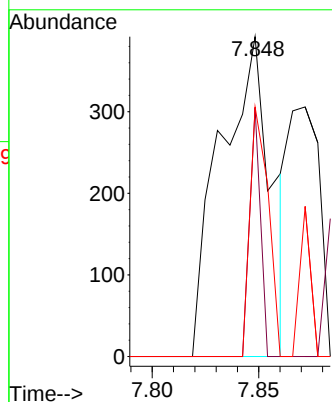
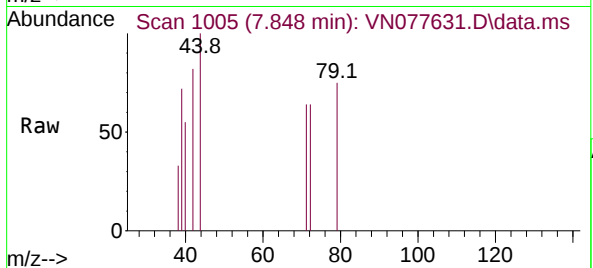
Tgt Ion: 42 Resp: 651

Ion Ratio Lower Upper

42 100

72 16.6 49.8 74.6#

71 28.1 47.4 71.2#



#31

Cyclohexane

Concen: 1.193 ug/l

RT: 8.225 min Scan# 1069

Delta R.T. -0.035 min

Lab File: VN077631.D

Acq: 09 May 2023 14:44

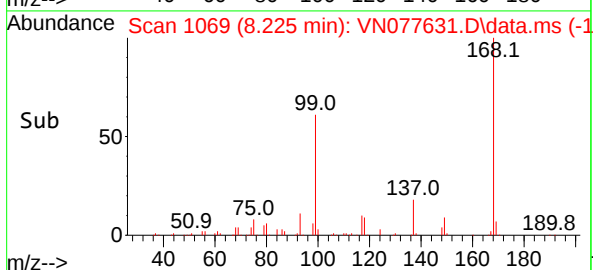
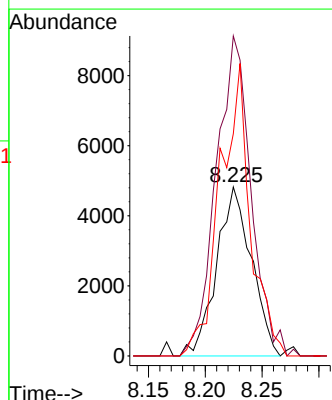
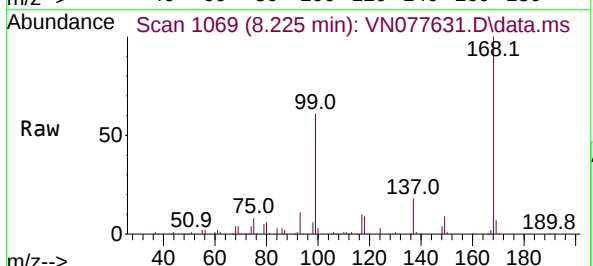
Tgt Ion: 56 Resp: 10315

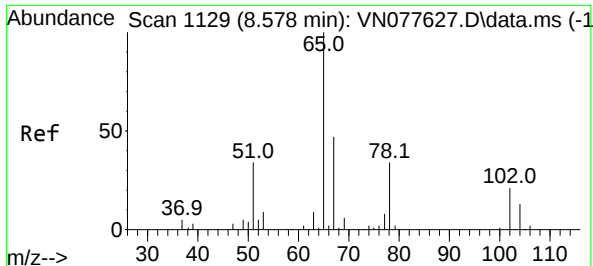
Ion Ratio Lower Upper

56 100

69 189.3 26.8 40.2#

84 131.5 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 48.767 ug/l

RT: 8.578 min Scan# 1129

Delta R.T. -0.000 min

Lab File: VN077631.D

Acq: 09 May 2023 14:44

Instrument :

MSVOA_N

ClientSampleId :

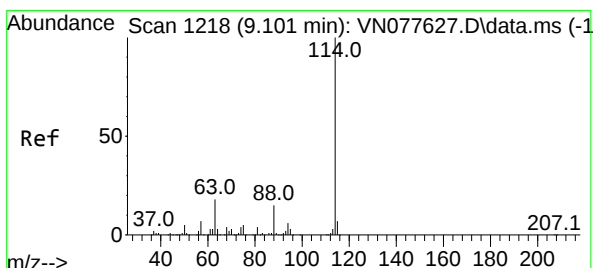
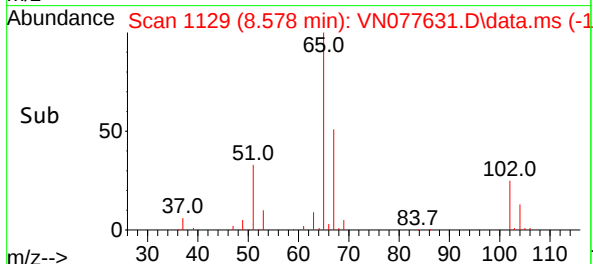
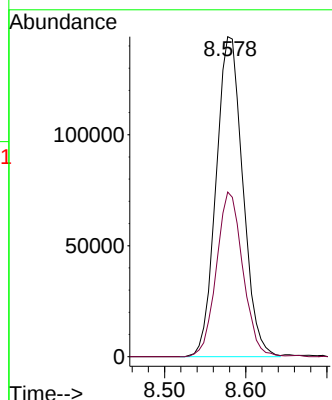
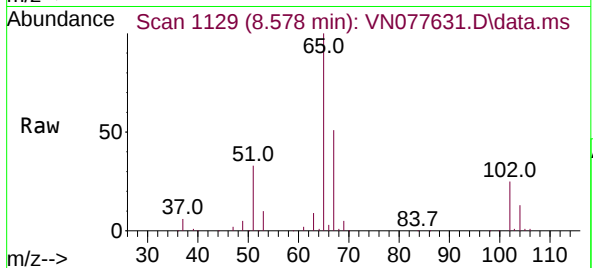
VN0509WBL01

Tgt Ion: 65 Resp: 330026

Ion Ratio Lower Upper

65 100

67 50.9 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.101 min Scan# 1218

Delta R.T. 0.000 min

Lab File: VN077631.D

Acq: 09 May 2023 14:44

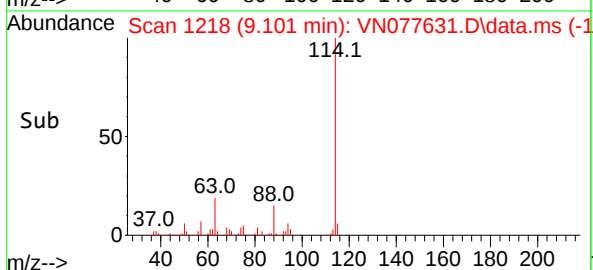
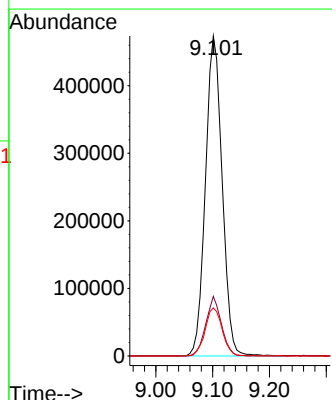
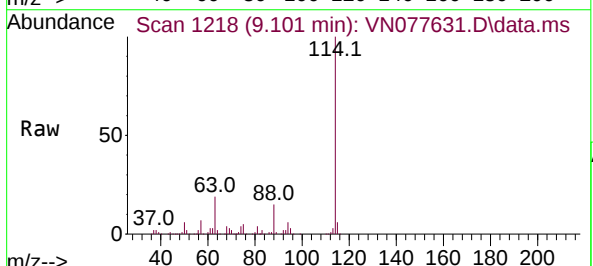
Tgt Ion: 114 Resp: 965864

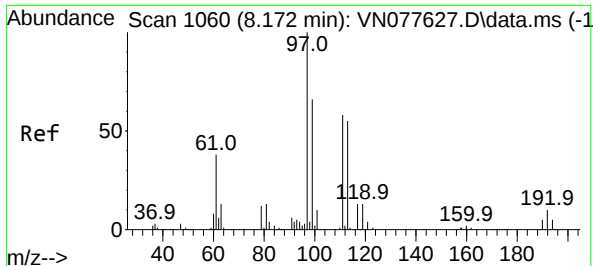
Ion Ratio Lower Upper

114 100

63 18.6 0.0 36.4

88 15.0 0.0 30.6





#35

Dibromofluoromethane

Concen: 49.388 ug/l

RT: 8.166 min Scan# 1059

Delta R.T. -0.006 min

Lab File: VN077631.D

Acq: 09 May 2023 14:44

Instrument :

MSVOA_N

ClientSampleId :

VN0509WBL01

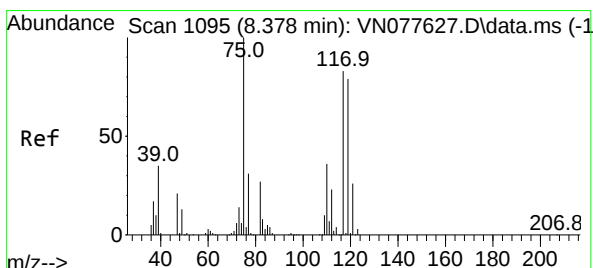
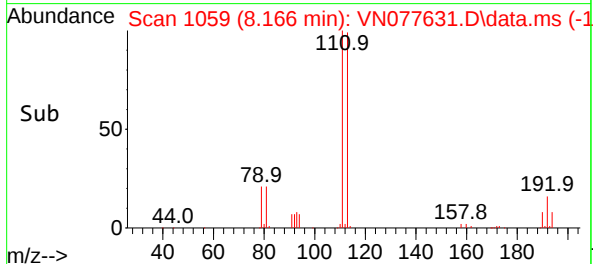
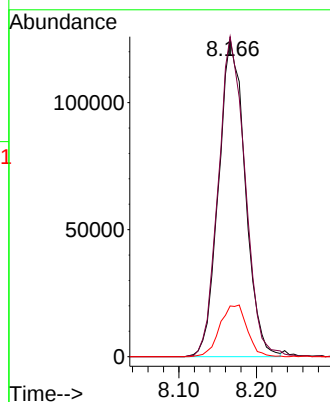
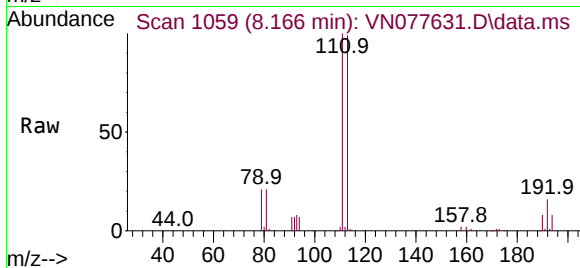
Tgt Ion:113 Resp: 297507

Ion Ratio Lower Upper

113 100

111 102.2 82.6 123.8

192 16.8 12.7 19.1



#36

1,1-Dichloropropene

Concen: 5.206 ug/l

RT: 8.225 min Scan# 1069

Delta R.T. -0.153 min

Lab File: VN077631.D

Acq: 09 May 2023 14:44

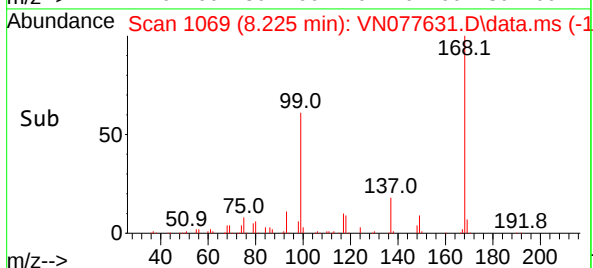
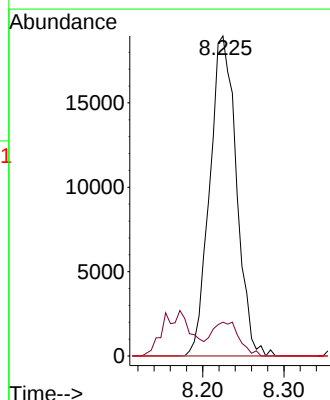
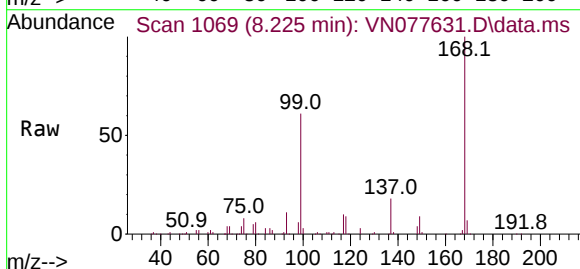
Tgt Ion: 75 Resp: 43280

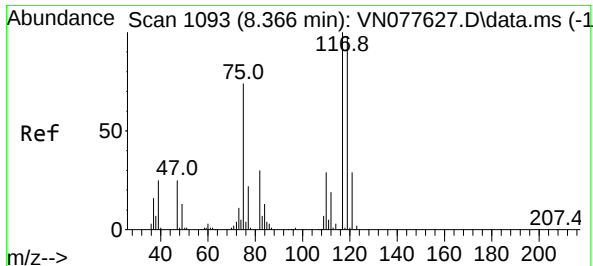
Ion Ratio Lower Upper

75 100

110 10.9 19.1 57.3#

77 0.0 25.0 37.4#

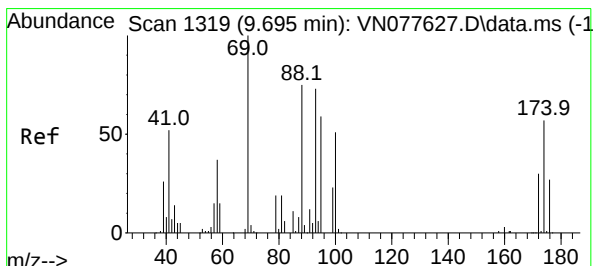
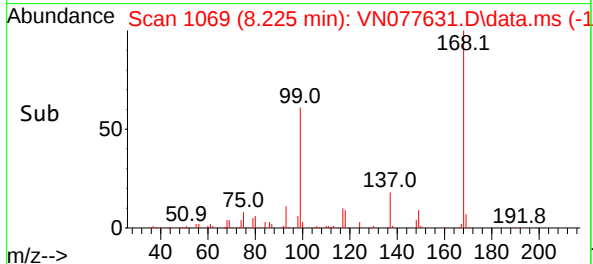
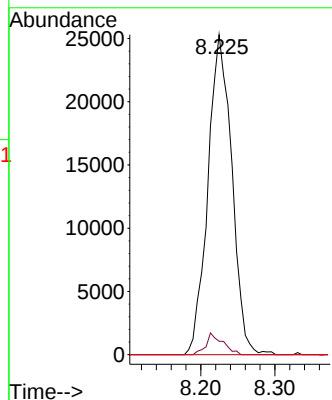
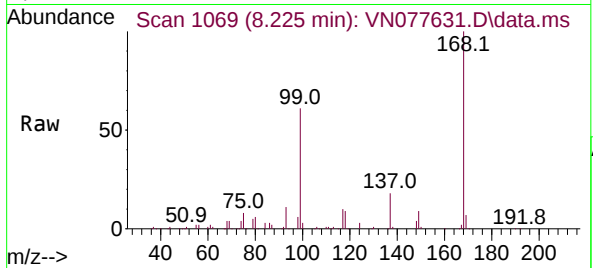




#38
Carbon Tetrachloride
Concen: 6.247 ug/l
RT: 8.225 min Scan# 11
Delta R.T. -0.141 min
Lab File: VN077631.D
Acq: 09 May 2023 14:44

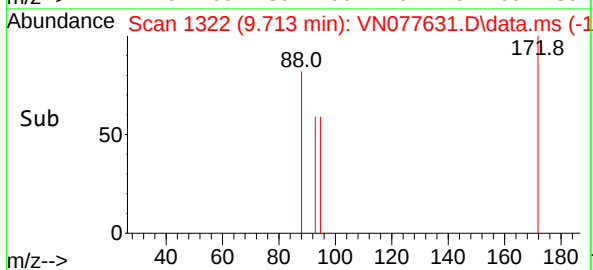
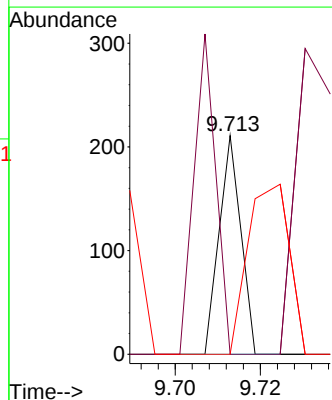
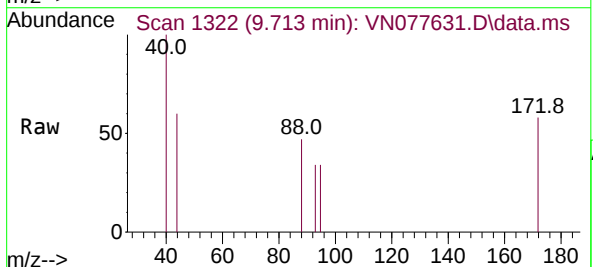
Instrument :
MSVOA_N
ClientSampleId :
VN0509WBL01

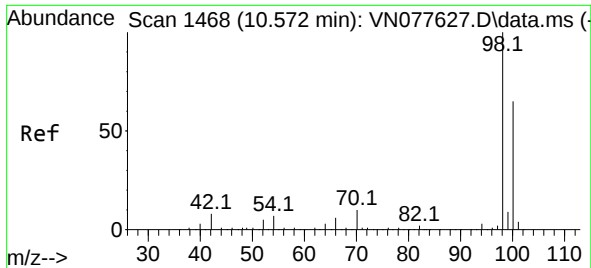
Tgt Ion:117 Resp: 56736
Ion Ratio Lower Upper
117 100
119 4.2 77.3 115.9#
121 0.0 23.3 34.9#



#49
1,4-Dioxane
Concen: 0.636 ug/l
RT: 9.713 min Scan# 1322
Delta R.T. 0.018 min
Lab File: VN077631.D
Acq: 09 May 2023 14:44

Tgt Ion: 88 Resp: 74
Ion Ratio Lower Upper
88 100
43 147.3 17.0 25.6#
58 0.0 47.0 70.4#

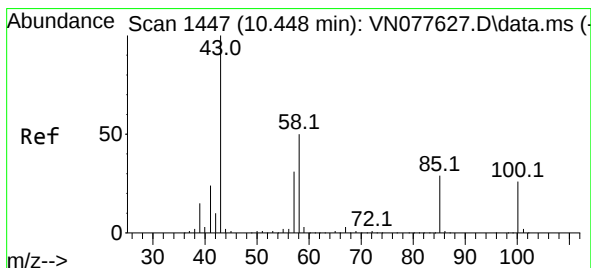
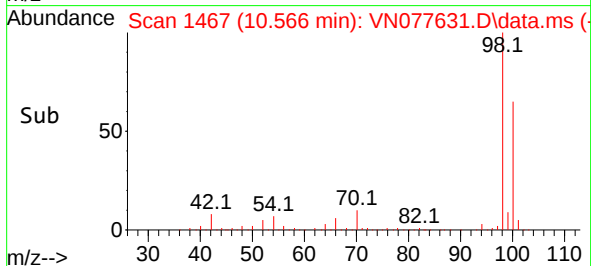
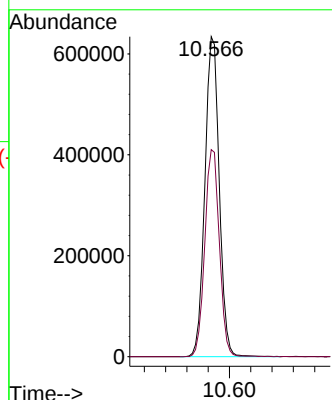
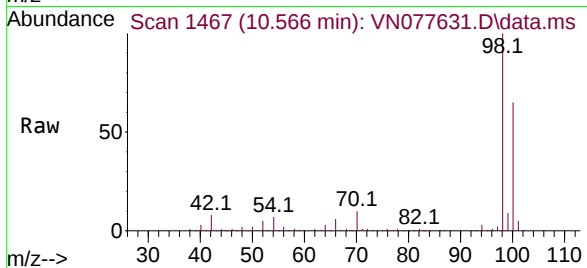




#50
Toluene-d8
Concen: 51.926 ug/l
RT: 10.566 min Scan# 1467
Delta R.T. -0.006 min
Lab File: VN077631.D
Acq: 09 May 2023 14:44

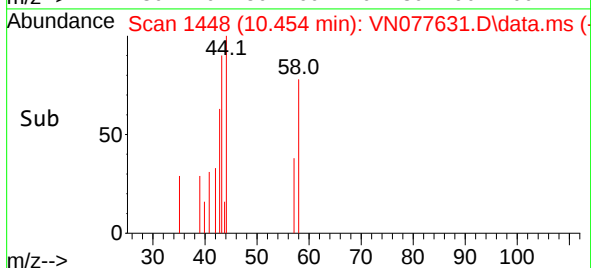
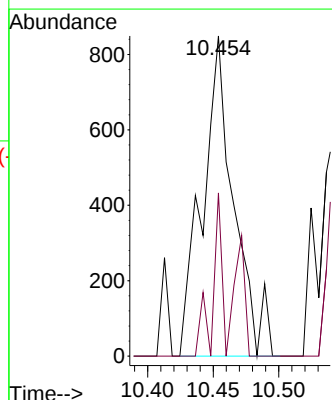
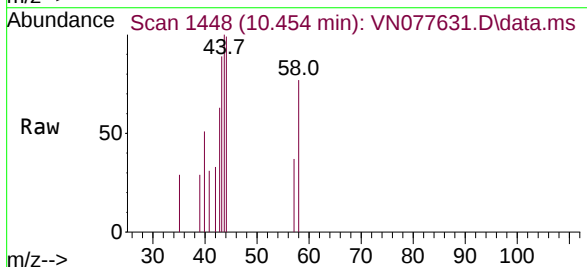
Instrument :
MSVOA_N
ClientSampleId :
VN0509WBL01

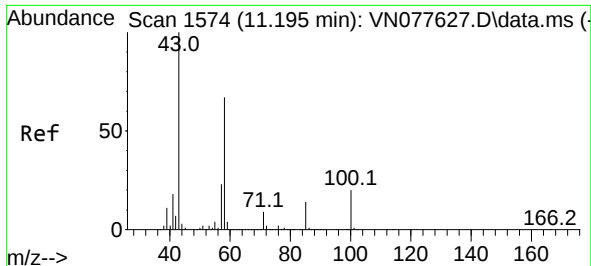
Tgt Ion: 98 Resp: 1184262
Ion Ratio Lower Upper
98 100
100 65.6 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 0.289 ug/l
RT: 10.454 min Scan# 1448
Delta R.T. 0.006 min
Lab File: VN077631.D
Acq: 09 May 2023 14:44

Tgt Ion: 43 Resp: 1418
Ion Ratio Lower Upper
43 100
58 0.0 36.6 54.8#





#59

2-Hexanone

Concen: 0.658 ug/l

RT: 11.201 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN077631.D

Acq: 09 May 2023 14:44

Instrument :

MSVOA_N

ClientSampleId :

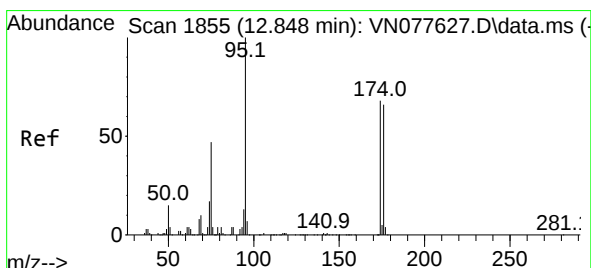
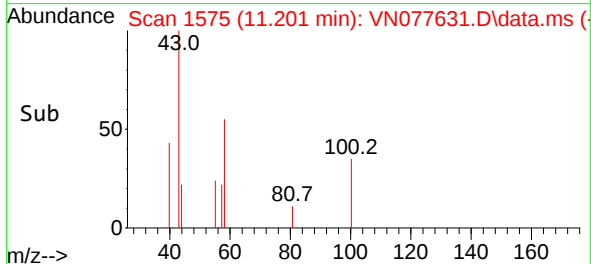
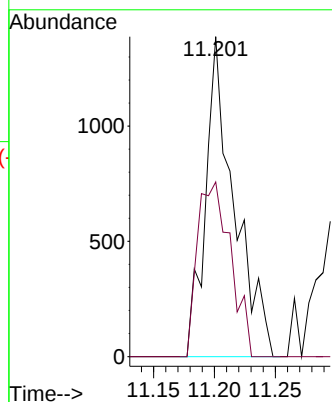
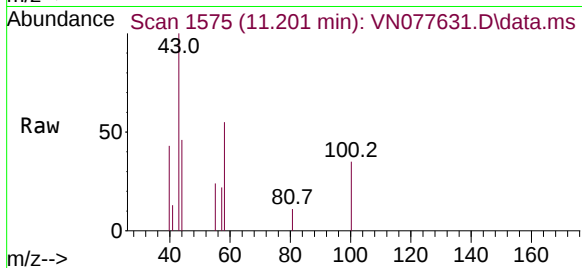
VN0509WBL01

Tgt Ion: 43 Resp: 2279

Ion Ratio Lower Upper

43 100

58 62.8 31.7 95.1



#62

4-Bromofluorobenzene

Concen: 52.816 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. 0.006 min

Lab File: VN077631.D

Acq: 09 May 2023 14:44

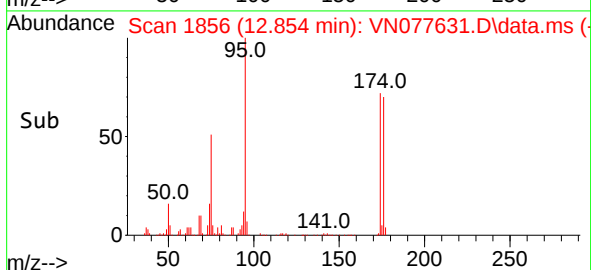
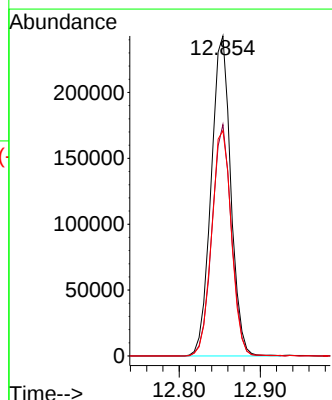
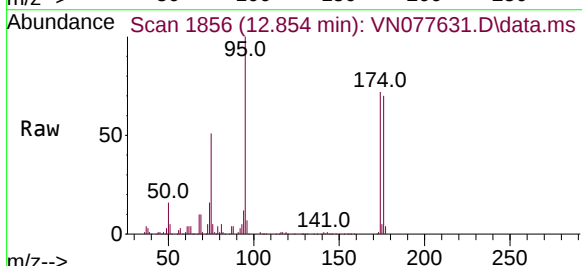
Tgt Ion: 95 Resp: 407407

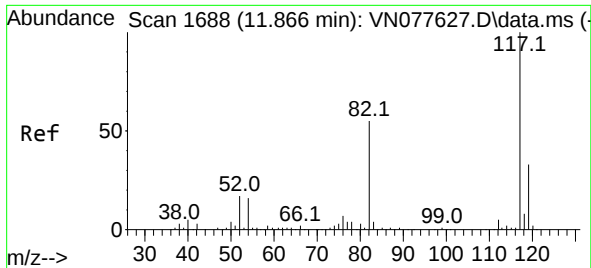
Ion Ratio Lower Upper

95 100

174 71.4 0.0 143.8

176 70.9 0.0 135.8

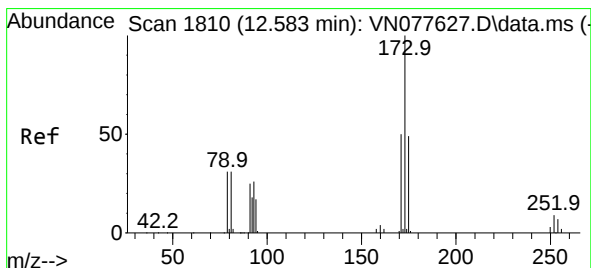
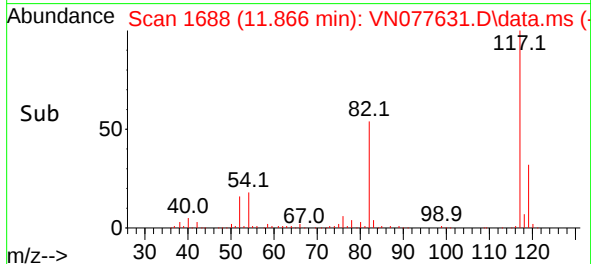
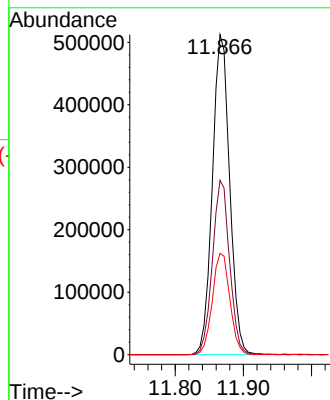
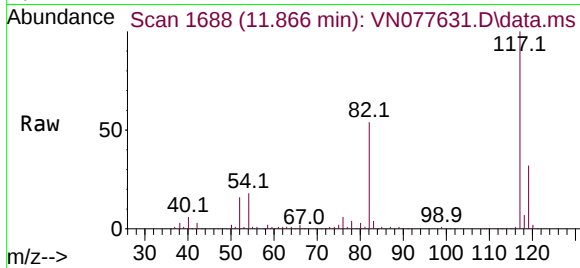




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN077631.D
Acq: 09 May 2023 14:44

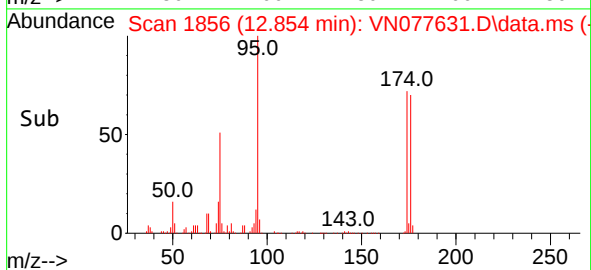
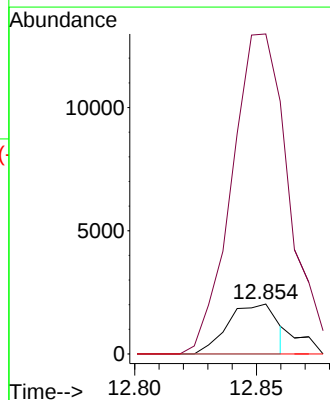
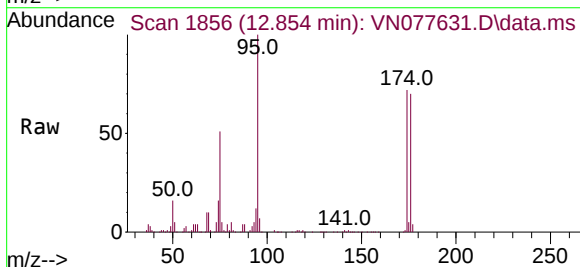
Instrument :
MSVOA_N
ClientSampleId :
VN0509WBL01

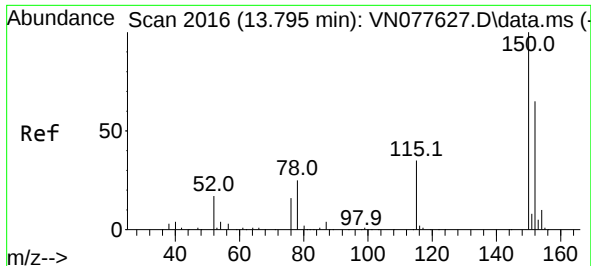
Tgt Ion:117 Resp: 904535
Ion Ratio Lower Upper
117 100
82 54.4 44.0 66.0
119 31.7 25.6 38.4



#71
Bromoform
Concen: 0.704 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.271 min
Lab File: VN077631.D
Acq: 09 May 2023 14:44

Tgt Ion:173 Resp: 2862
Ion Ratio Lower Upper
173 100
175 636.0 24.3 73.0#
254 0.0 0.0 0.0

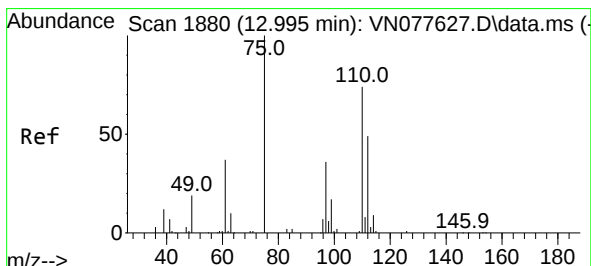
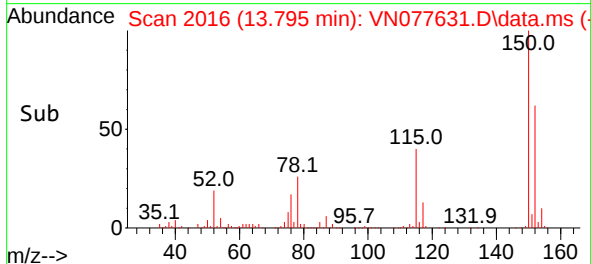
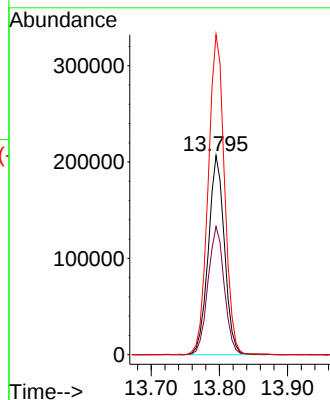
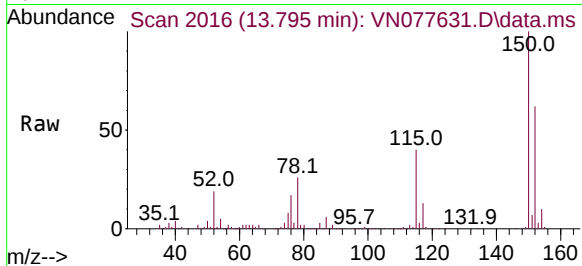




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.795 min Scan# 2016
 Delta R.T. -0.000 min
 Lab File: VN077631.D
 Acq: 09 May 2023 14:44

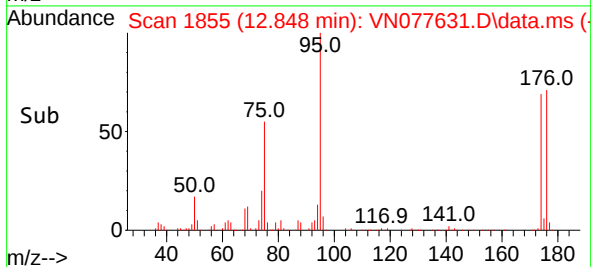
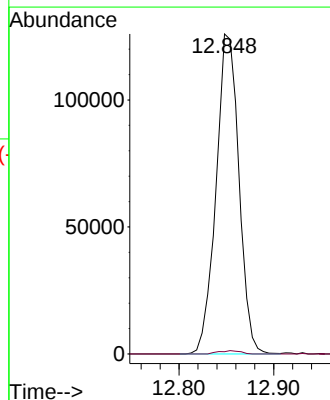
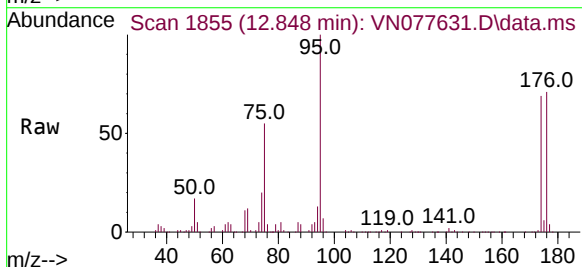
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0509WBL01

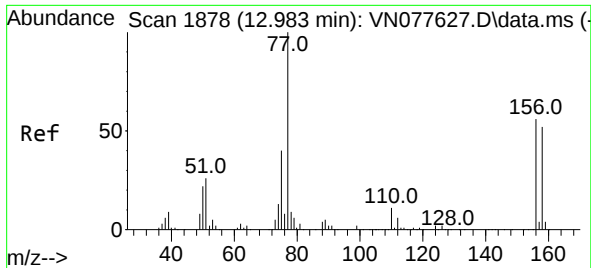
Tgt Ion:152 Resp: 339814
 Ion Ratio Lower Upper
 152 100
 115 65.2 32.3 96.8
 150 162.4 0.0 355.8



#76
 1,2,3-Trichloropropane
 Concen: 30.199 ug/l
 RT: 12.848 min Scan# 1855
 Delta R.T. -0.147 min
 Lab File: VN077631.D
 Acq: 09 May 2023 14:44

Tgt Ion: 75 Resp: 211772
 Ion Ratio Lower Upper
 75 100
 77 1.0 84.5 253.5#

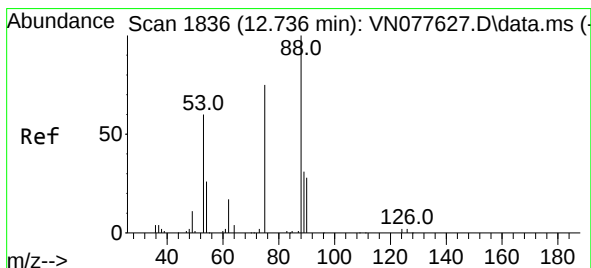
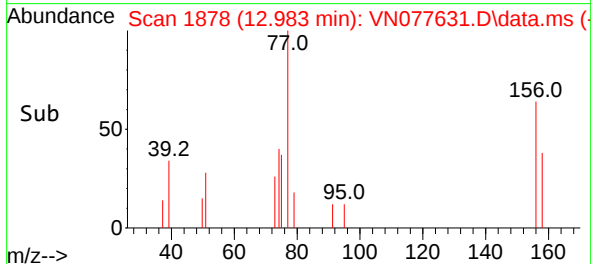
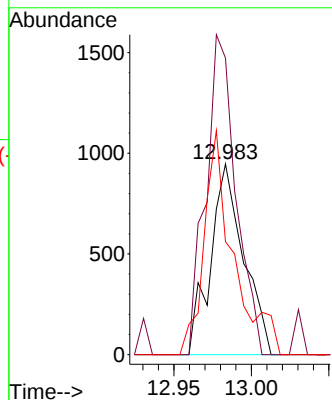
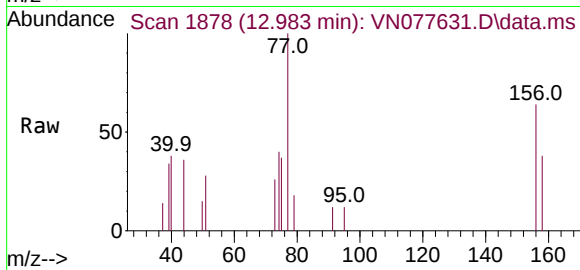




#77
Bromobenzene
Concen: 0.210 ug/l
RT: 12.983 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN077631.D
Acq: 09 May 2023 14:44

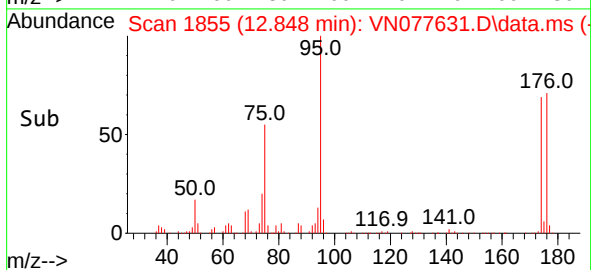
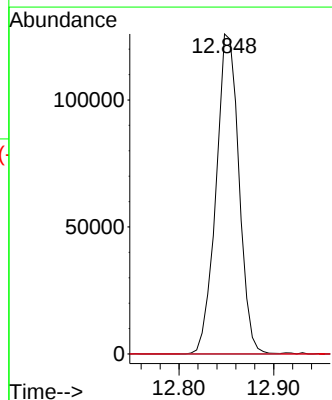
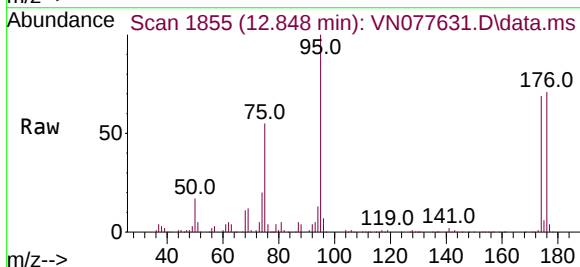
Instrument :
MSVOA_N
ClientSampleId :
VN0509WBL01

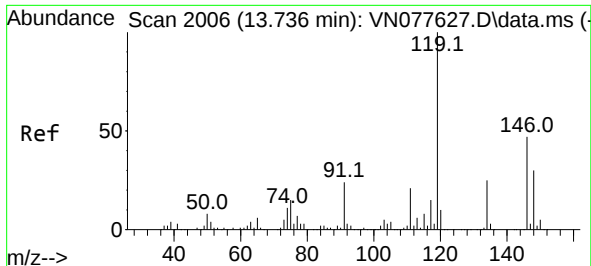
Tgt Ion:156 Resp: 1409
Ion Ratio Lower Upper
156 100
77 152.2 107.7 323.3
158 103.1 48.4 145.3



#81
trans-1,4-Dichloro-2-butene
Concen: 96.157 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. 0.112 min
Lab File: VN077631.D
Acq: 09 May 2023 14:44

Tgt Ion: 75 Resp: 211772
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#





#87

1,3-Dichlorobenzene

Concen: 0.326 ug/l

RT: 13.736 min Scan# 2006

Delta R.T. 0.000 min

Lab File: VN077631.D

Acq: 09 May 2023 14:44

Instrument :

MSVOA_N

ClientSampleId :

VN0509WBL01

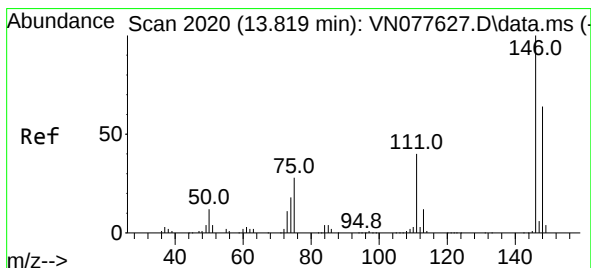
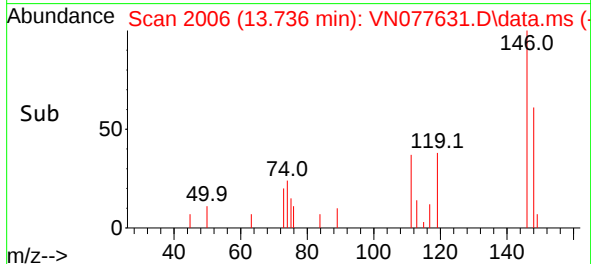
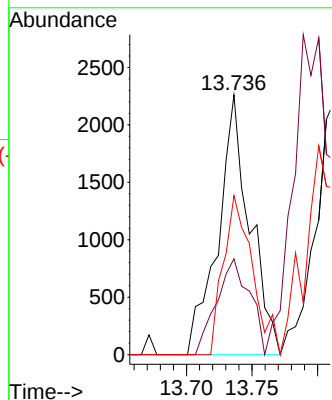
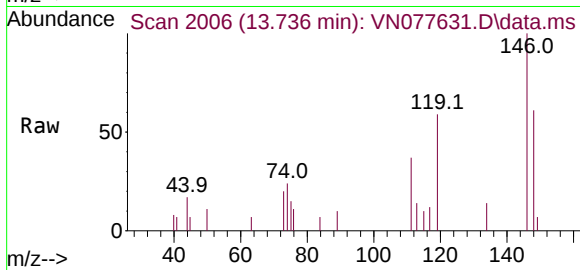
Tgt Ion:146 Resp: 3806

Ion Ratio Lower Upper

146 100

111 38.4 22.1 66.3

148 55.9 32.0 96.0



#88

1,4-Dichlorobenzene

Concen: 0.328 ug/l

RT: 13.736 min Scan# 2006

Delta R.T. -0.083 min

Lab File: VN077631.D

Acq: 09 May 2023 14:44

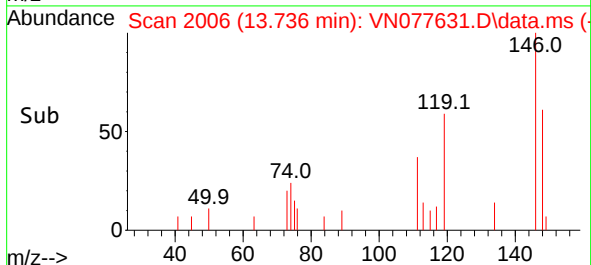
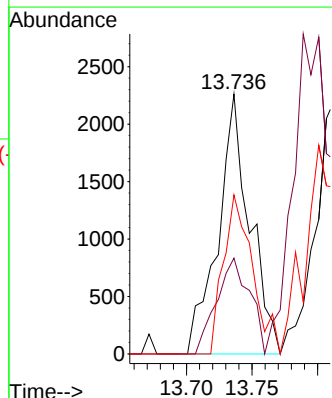
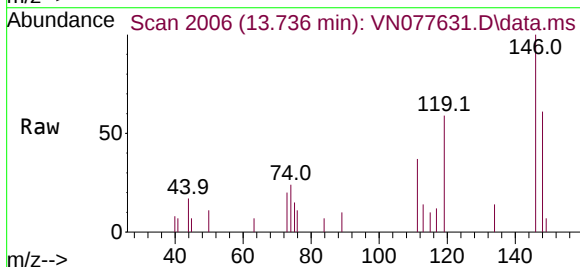
Tgt Ion:146 Resp: 3806

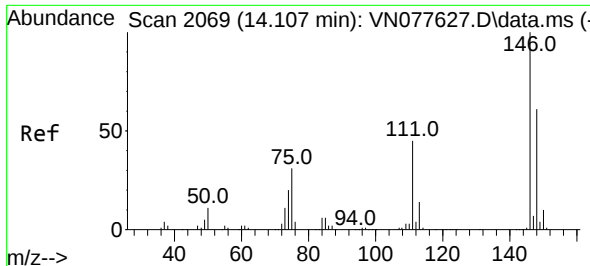
Ion Ratio Lower Upper

146 100

111 38.4 20.6 61.8

148 55.9 31.6 94.8

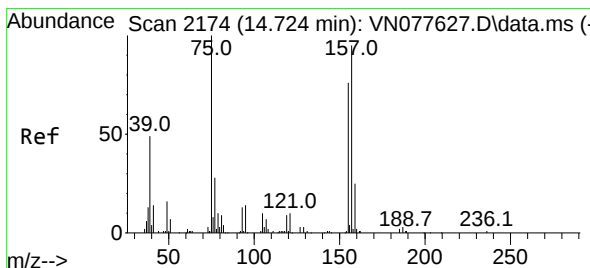
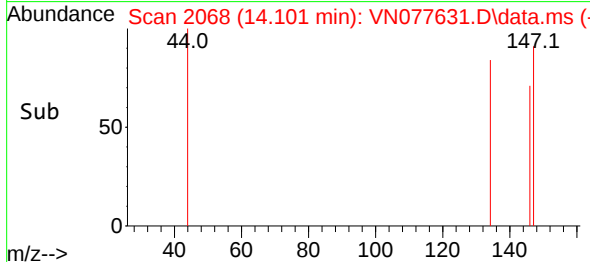
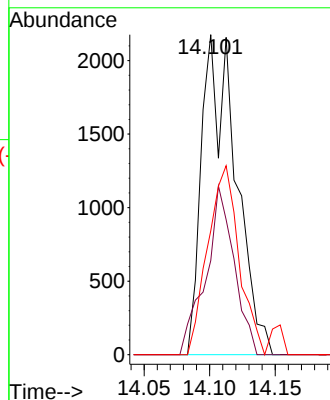
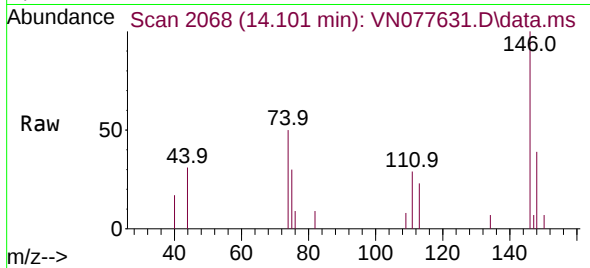




#91
1,2-Dichlorobenzene
Concen: 0.338 ug/l
RT: 14.101 min Scan# 2068
Delta R.T. -0.006 min
Lab File: VN077631.D
Acq: 09 May 2023 14:44

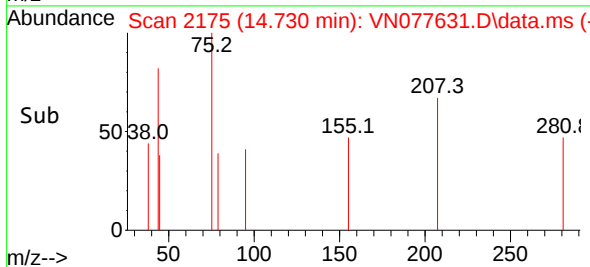
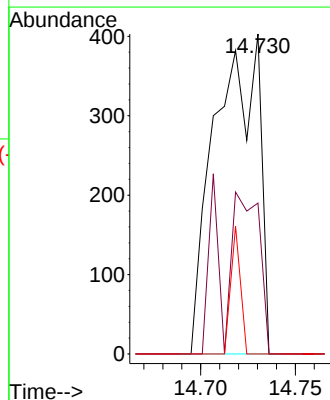
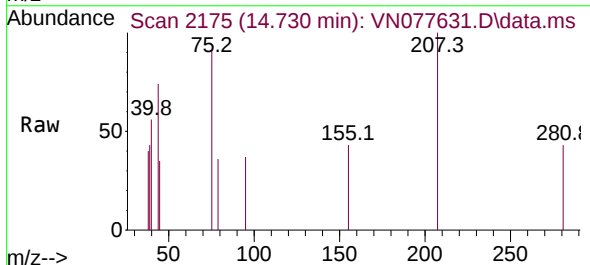
Instrument :
MSVOA_N
ClientSampleId :
VN0509WBL01

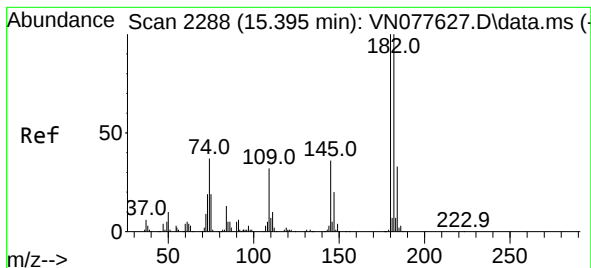
Tgt Ion:146 Resp: 3922
Ion Ratio Lower Upper
146 100
111 43.8 22.0 66.0
148 54.2 31.8 95.3



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.442 ug/l
RT: 14.730 min Scan# 2175
Delta R.T. 0.006 min
Lab File: VN077631.D
Acq: 09 May 2023 14:44

Tgt Ion: 75 Resp: 652
Ion Ratio Lower Upper
75 100
155 31.1 39.1 117.2#
157 8.7 50.3 150.9#





#93

1,2,4-Trichlorobenzene

Concen: 5.321 ug/l

RT: 15.407 min Scan# 21

Delta R.T. 0.012 min

Lab File: VN077631.D

Acq: 09 May 2023 14:44

Instrument :

MSVOA_N

ClientSampleId :

VN0509WBL01

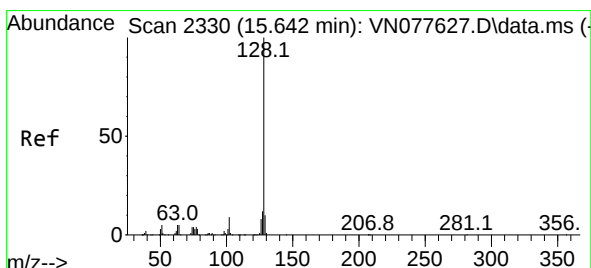
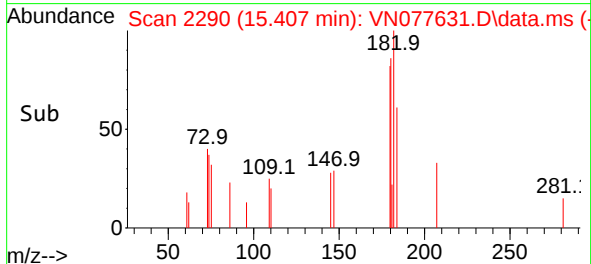
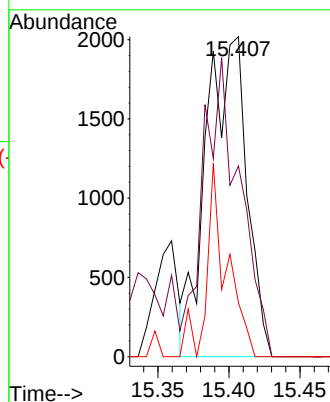
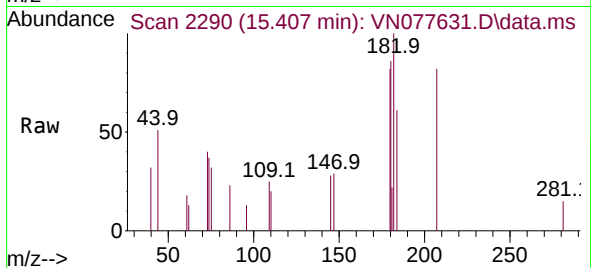
Tgt Ion:180 Resp: 4035

Ion Ratio Lower Upper

180 100

182 83.5 46.1 138.2

145 29.5 16.6 49.8



#95

Naphthalene

Concen: 5.607 ug/l

RT: 15.642 min Scan# 2330

Delta R.T. -0.000 min

Lab File: VN077631.D

Acq: 09 May 2023 14:44

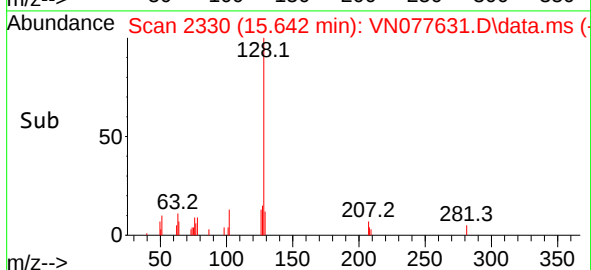
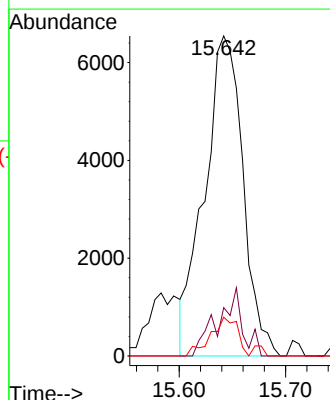
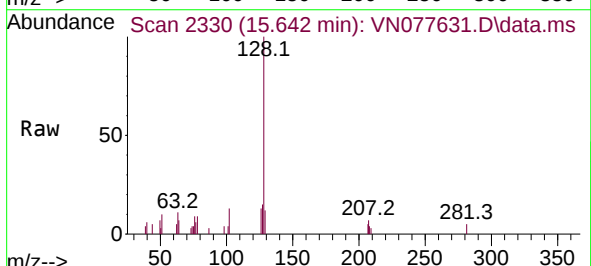
Tgt Ion:128 Resp: 16457

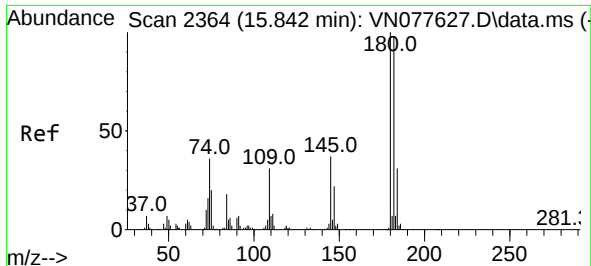
Ion Ratio Lower Upper

128 100

127 13.8 10.0 15.0

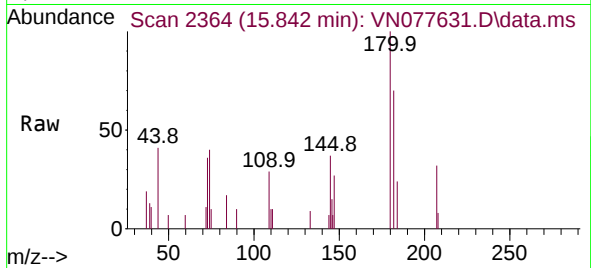
129 8.4 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 5.645 ug/l
 RT: 15.842 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN077631.D
 Acq: 09 May 2023 14:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0509WBL01



Tgt Ion:	180	Resp:	5812
Ion	Ratio	Lower	Upper
180	100		
182	83.7	46.2	138.6
145	32.9	17.5	52.6

