

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051223\
 Data File : VN077668.D
 Acq On : 12 May 2023 12:36
 Operator : JC\MD
 Sample : VN0512WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0512WBL01

Quant Time: May 15 01:37:09 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N050823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 09 05:58:09 2023
 Response via : Initial Calibration

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

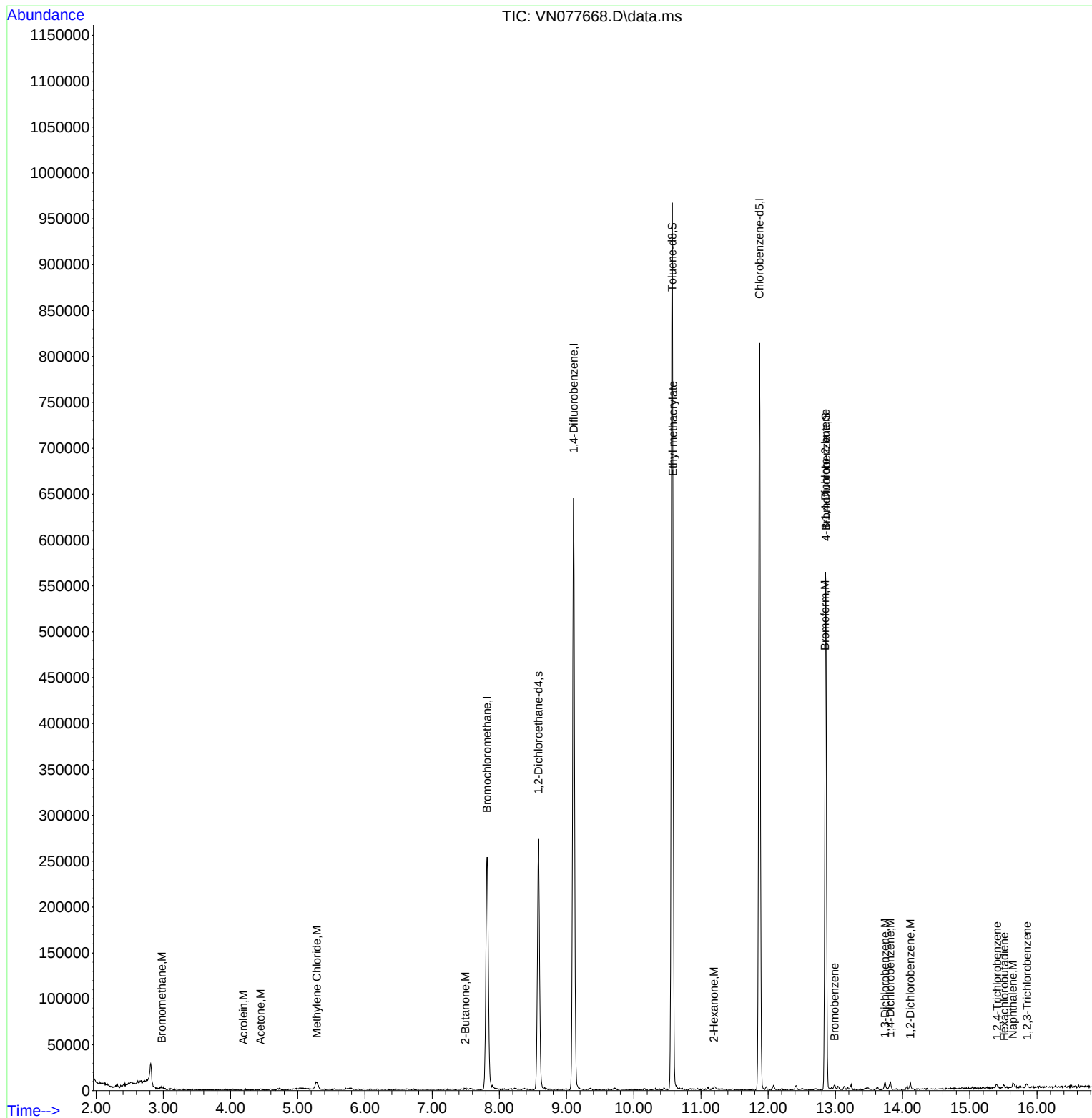
Internal Standards						
1) Bromochloromethane	7.818	128	106401	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	601229	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	514494	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	214943	28.091	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	93.633%
60) 4-Bromofluorobenzene	12.859	95	200645	24.526	ug/l	0.01
Spiked Amount	30.000	Range	63 - 112	Recovery	=	81.767%
63) Toluene-d8	10.571	98	695646	29.274	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.567%
Target Compounds						
					Qvalue	
5) Bromomethane	2.977	94	1220	0.224	ug/l	96
13) Acrolein	4.189	56	405	0.482	ug/l	98
15) Acetone	4.448	58	291	0.460	ug/l #	1
18) Methylene Chloride	5.283	84	7689	1.116	ug/l #	78
30) 2-Butanone	7.494	43	497	0.215	ug/l #	88
51) Ethyl methacrylate	10.582	69	2248	0.253	ug/l	74
56) Bromoform	12.847	173	1063	0.253	ug/l #	1
59) 2-Hexanone	11.194	43	1248	0.365	ug/l #	34
73) Bromobenzene	12.988	156	1394	0.210	ug/l	65
77) t-1,4-Dichloro-2-butene	12.853	75	100078	40.505	ug/l #	12
83) 1,3-Dichlorobenzene	13.741	146	2863	0.232	ug/l	86
84) 1,4-Dichlorobenzene	13.818	146	3574	0.296	ug/l	94
87) 1,2-Dichlorobenzene	14.118	146	3211	0.268	ug/l	78
89) 1,2,4-Trichlorobenzene	15.406	180	1782	0.432	ug/l #	74
90) Hexachlorobutadiene	15.512	225	825	0.354	ug/l	33
91) Naphthalene	15.641	128	6028	0.428	ug/l #	90
92) 1,2,3-Trichlorobenzene	15.853	180	2020	0.531	ug/l	56

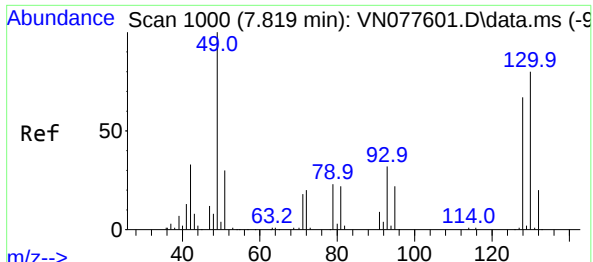
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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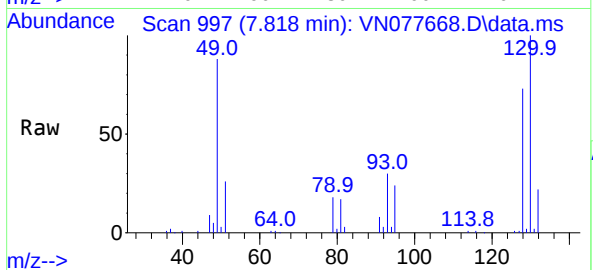
Quant Time: May 15 01:37:09 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N050823W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue May 09 05:58:09 2023
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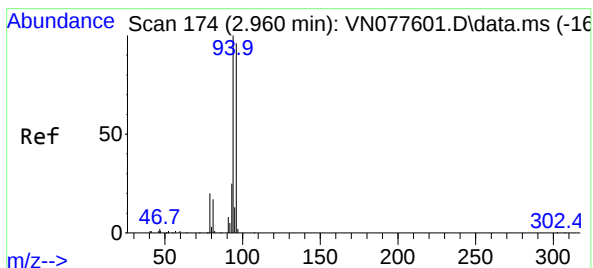
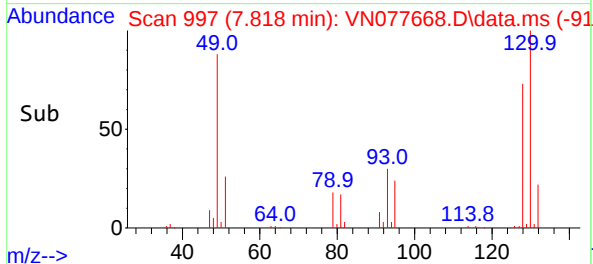
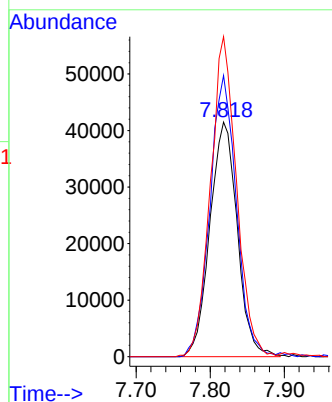


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. -0.001 min
Lab File: VN077668.D
Acq: 12 May 2023 12:36

Instrument :
MSVOA_N
ClientSampleId :
VN0512WBL01

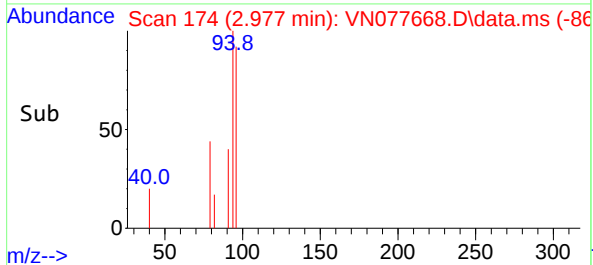
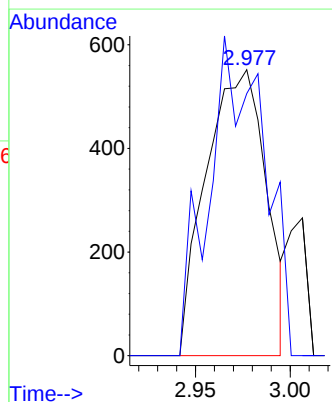
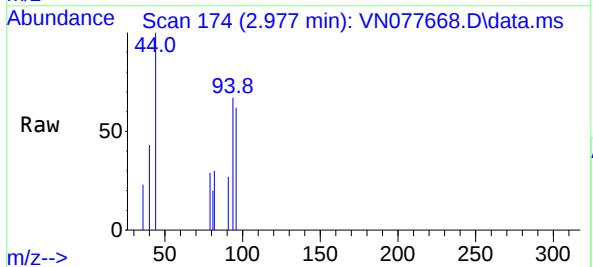


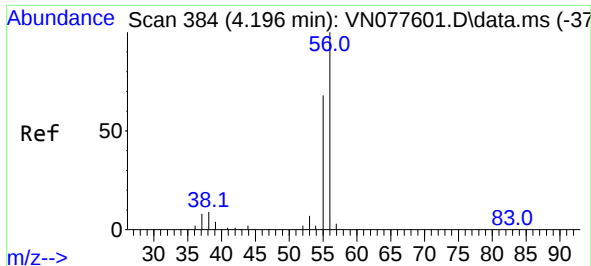
Tgt Ion:128 Resp: 106401
Ion Ratio Lower Upper
128 100
49 116.1 0.0 369.8
130 129.7 0.0 317.8



#5
Bromomethane
Concen: 0.224 ug/l
RT: 2.977 min Scan# 174
Delta R.T. 0.017 min
Lab File: VN077668.D
Acq: 12 May 2023 12:36

Tgt Ion: 94 Resp: 1220
Ion Ratio Lower Upper
94 100
96 91.7 76.7 115.1

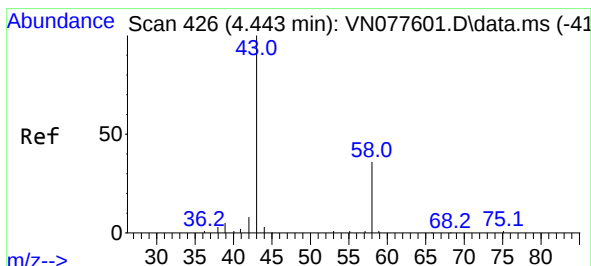
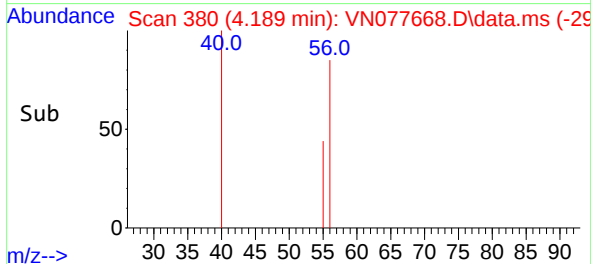
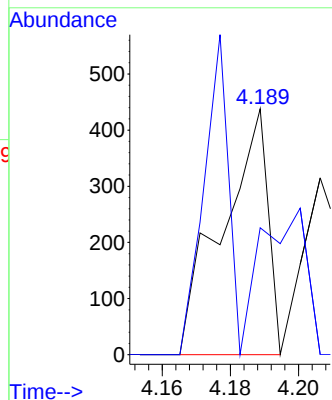
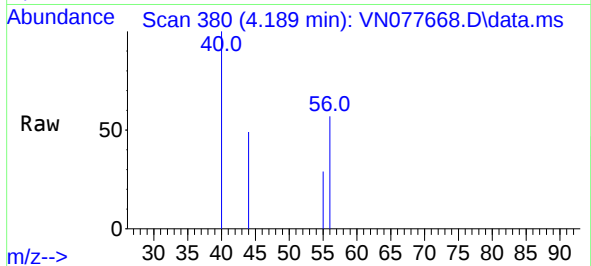




#13
Acrolein
Concen: 0.482 ug/l
RT: 4.189 min Scan# 31
Delta R.T. -0.007 min
Lab File: VN077668.D
Acq: 12 May 2023 12:36

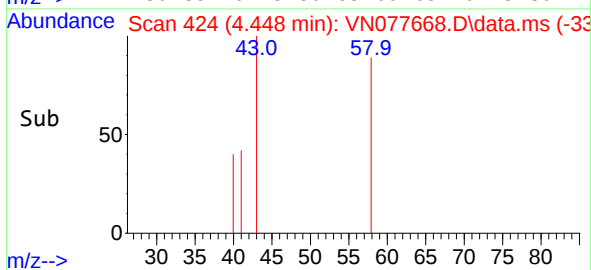
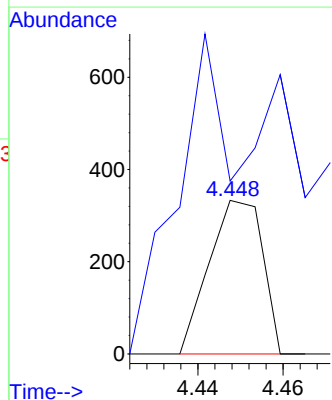
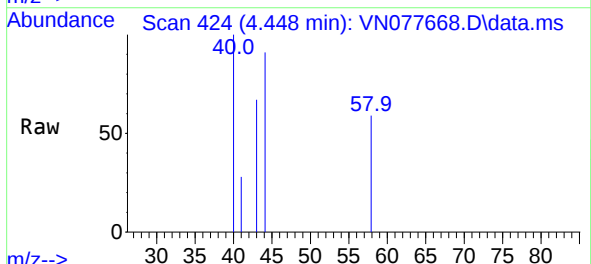
Instrument :
MSVOA_N
ClientSampleId :
VN0512WBL01

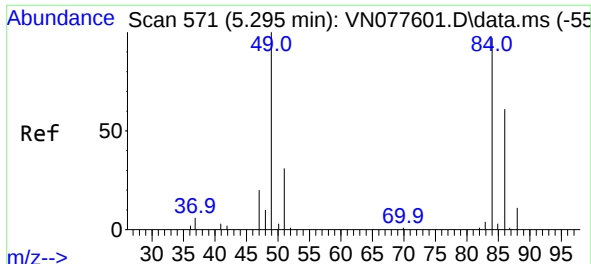
Tgt Ion: 56 Resp: 405
Ion Ratio Lower Upper
56 100
55 70.4 54.8 82.2



#15
Acetone
Concen: 0.460 ug/l
RT: 4.448 min Scan# 424
Delta R.T. 0.005 min
Lab File: VN077668.D
Acq: 12 May 2023 12:36

Tgt Ion: 58 Resp: 291
Ion Ratio Lower Upper
58 100
43 17.1 223.2 334.8#

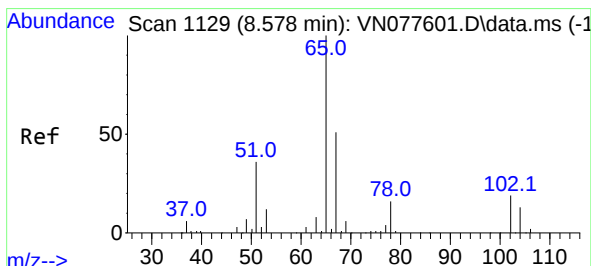
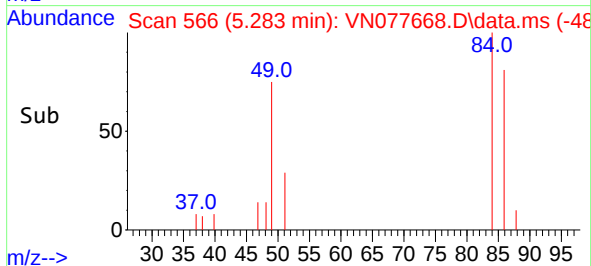
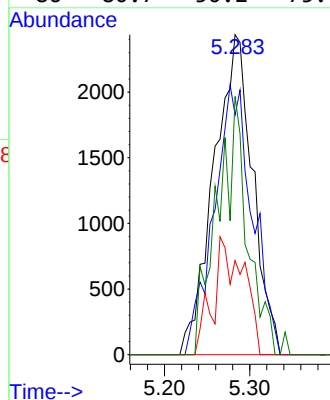
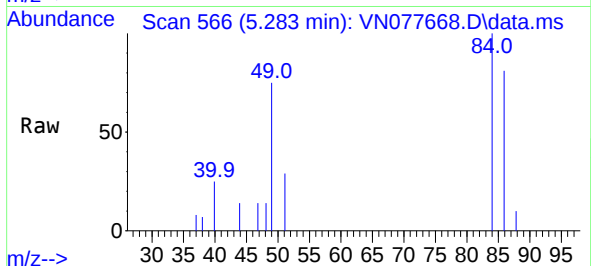




#18
Methylene Chloride
Concen: 1.116 ug/l
RT: 5.283 min Scan# 51
Delta R.T. -0.012 min
Lab File: VN077668.D
Acq: 12 May 2023 12:36

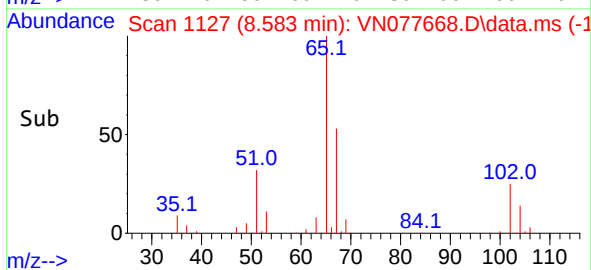
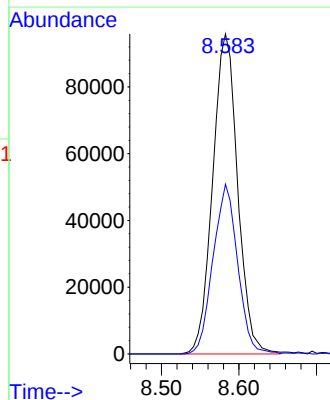
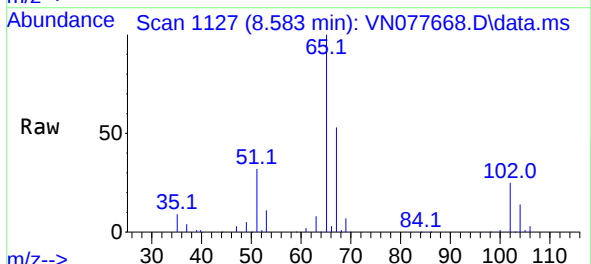
Instrument :
MSVOA_N
ClientSampleId :
VN0512WBL01

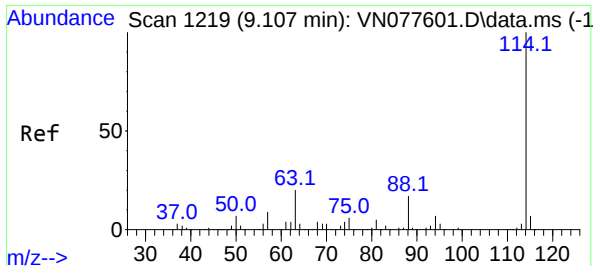
Tgt Ion: 84 Resp: 7689
Ion Ratio Lower Upper
84 100
49 74.9 82.4 123.6#
51 29.4 25.1 37.7
86 80.7 50.2 75.4#



#27
1,2-Dichloroethane-d4
Concen: 28.091 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.005 min
Lab File: VN077668.D
Acq: 12 May 2023 12:36

Tgt Ion: 65 Resp: 214943
Ion Ratio Lower Upper
65 100
67 52.2 41.3 61.9

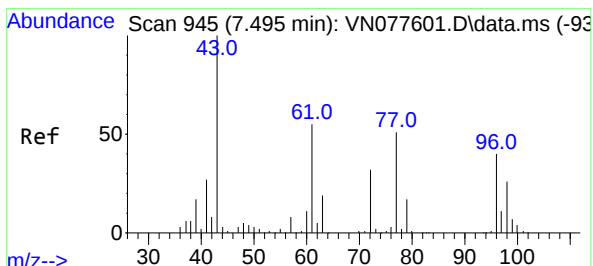
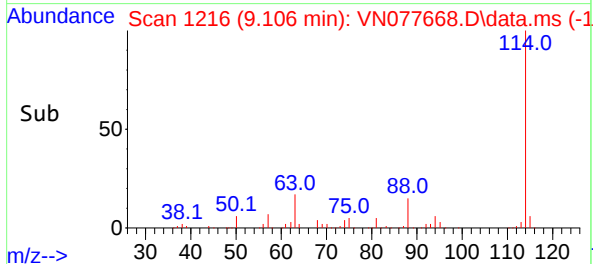
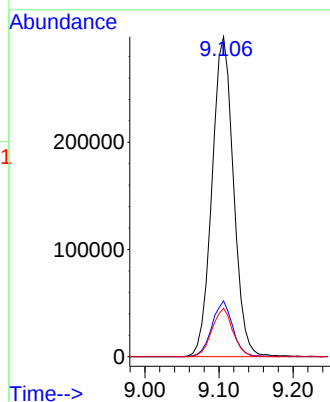
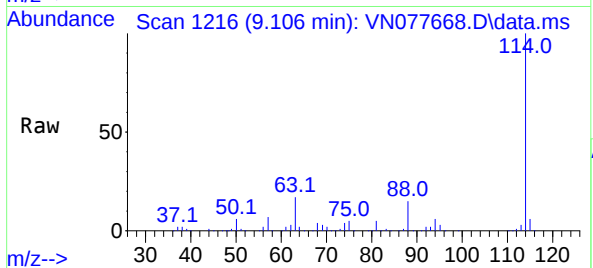




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.106 min Scan# 114
Delta R.T. -0.001 min
Lab File: VN077668.D
Acq: 12 May 2023 12:36

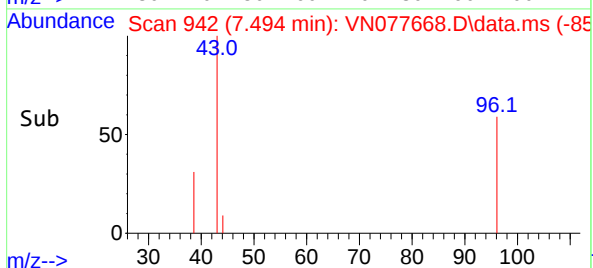
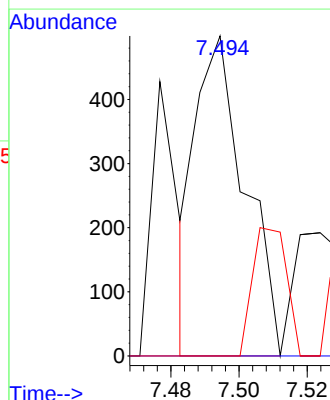
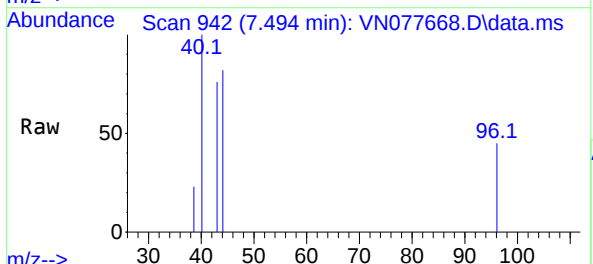
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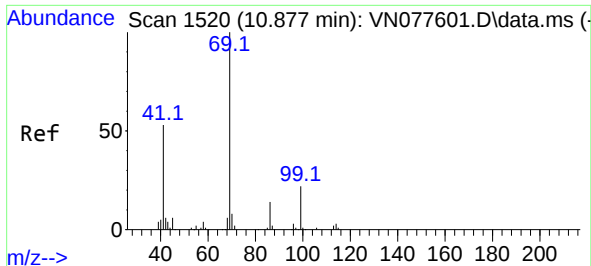
Tgt Ion:114 Resp: 601229
Ion Ratio Lower Upper
114 100
63 16.8 15.8 23.6
88 14.7 13.0 19.4



#30
2-Butanone
Concen: 0.215 ug/l
RT: 7.494 min Scan# 942
Delta R.T. -0.001 min
Lab File: VN077668.D
Acq: 12 May 2023 12:36

Tgt Ion: 43 Resp: 497
Ion Ratio Lower Upper
43 100
57 0.0 7.2 10.8#
72 28.0 26.2 39.2

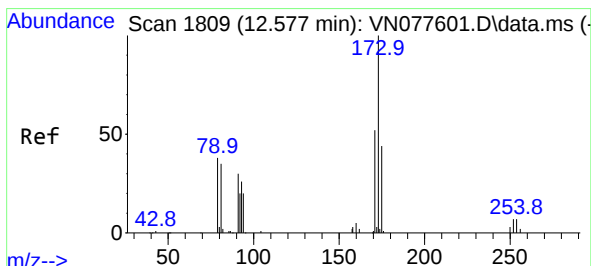
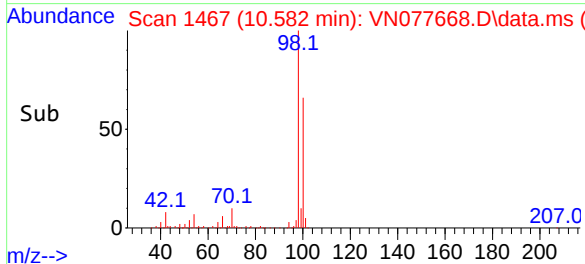
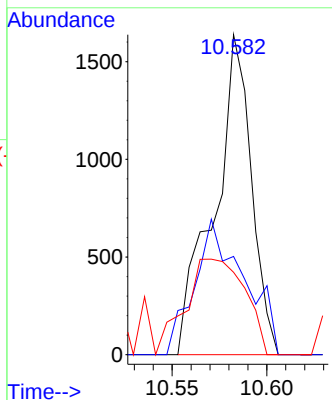
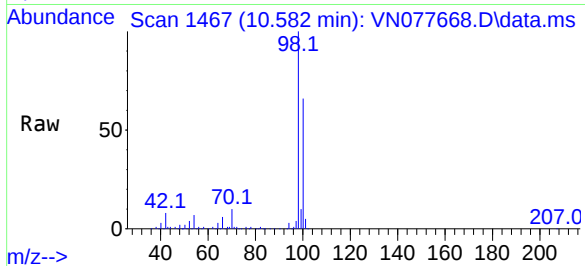




#51
Ethyl methacrylate
Concen: 0.253 ug/l
RT: 10.582 min Scan# 1467
Delta R.T. -0.295 min
Lab File: VN077668.D
Acq: 12 May 2023 12:36

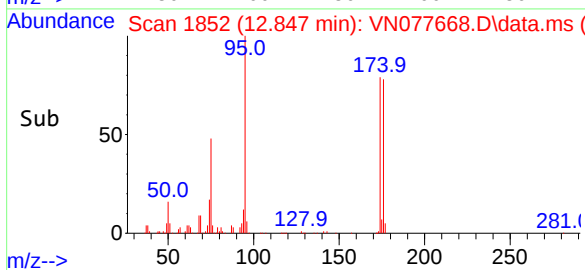
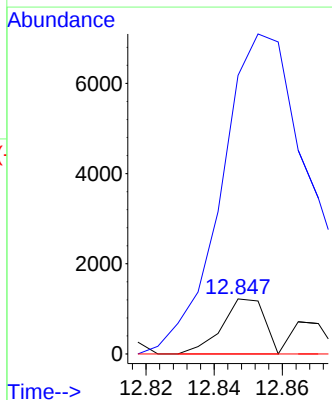
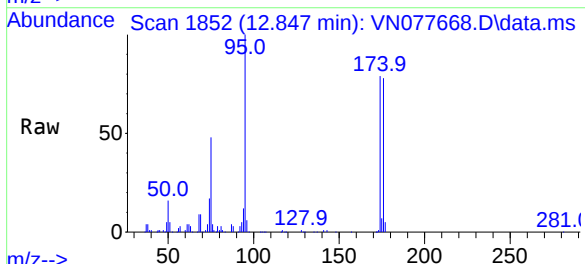
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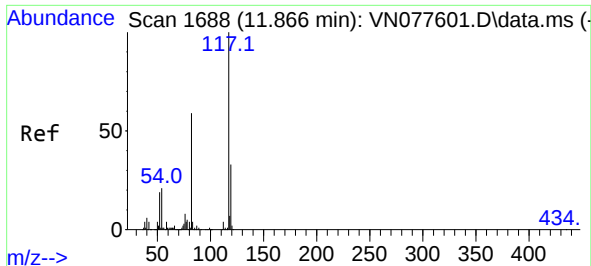
Tgt Ion: 69 Resp: 2248
Ion Ratio Lower Upper
69 100
41 30.7 26.3 78.9
39 25.8 18.1 54.1



#56
Bromoform
Concen: 0.253 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.270 min
Lab File: VN077668.D
Acq: 12 May 2023 12:36

Tgt Ion: 173 Resp: 1063
Ion Ratio Lower Upper
173 100
175 1199.8 39.4 59.2#
254 0.0 5.8 8.6#

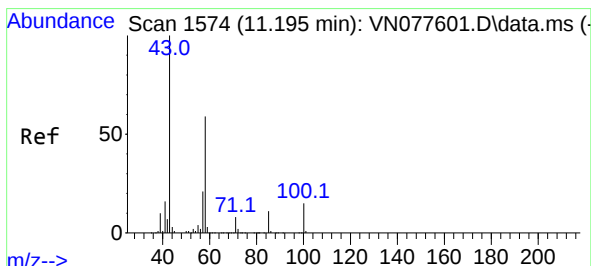
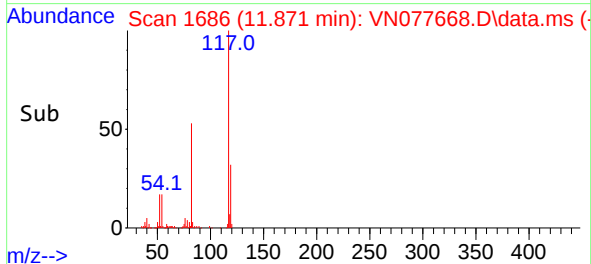
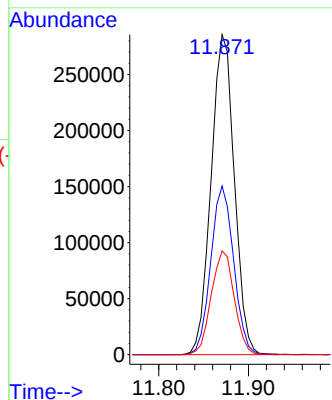
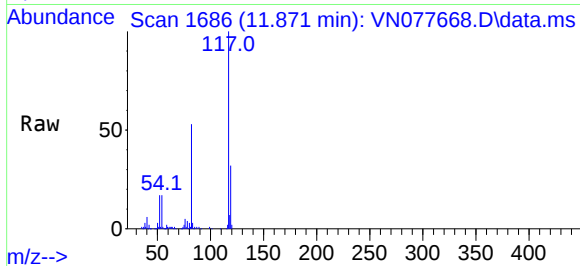




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.871 min Scan# 117
Delta R.T. 0.005 min
Lab File: VN077668.D
Acq: 12 May 2023 12:36

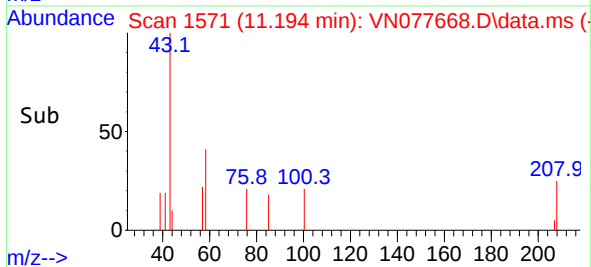
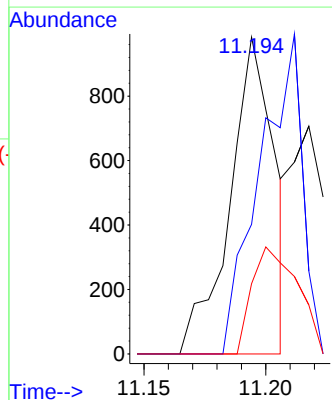
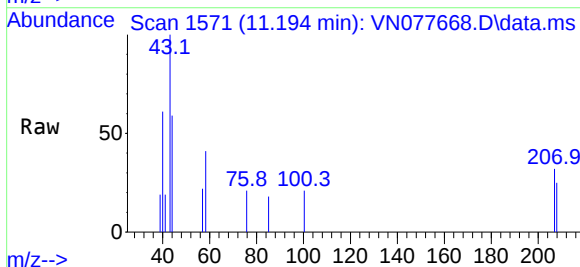
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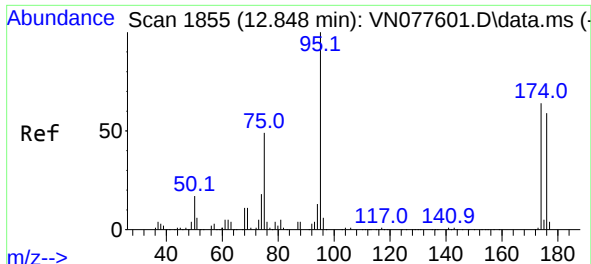
Tgt Ion:117 Resp: 514494
Ion Ratio Lower Upper
117 100
82 51.8 47.4 71.2
119 32.1 26.6 39.8



#59
2-Hexanone
Concen: 0.365 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.001 min
Lab File: VN077668.D
Acq: 12 May 2023 12:36

Tgt Ion: 43 Resp: 1248
Ion Ratio Lower Upper
43 100
58 0.0 48.2 72.2#
57 34.6 17.3 25.9#

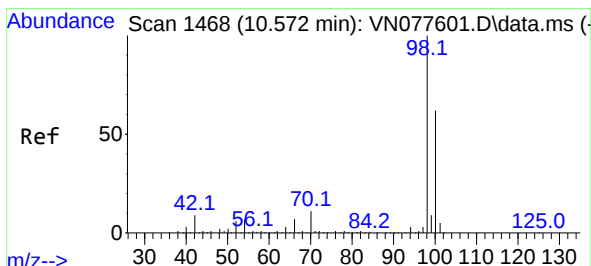
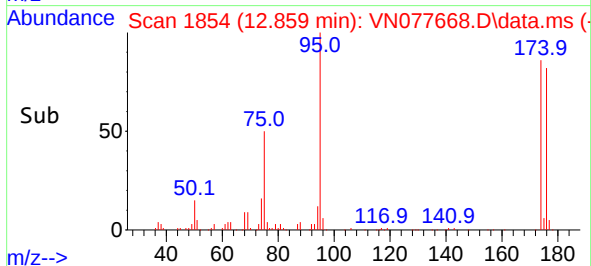
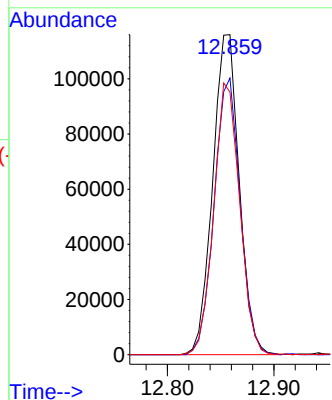
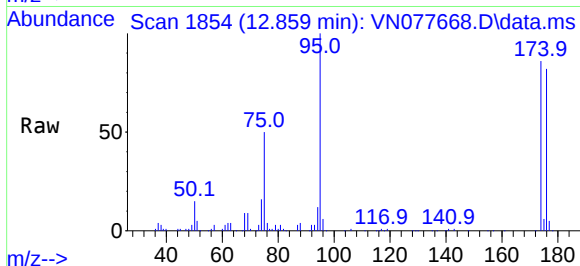




#60
4-Bromofluorobenzene
Concen: 24.526 ug/l
RT: 12.859 min Scan# 11
Delta R.T. 0.011 min
Lab File: VN077668.D
Acq: 12 May 2023 12:36

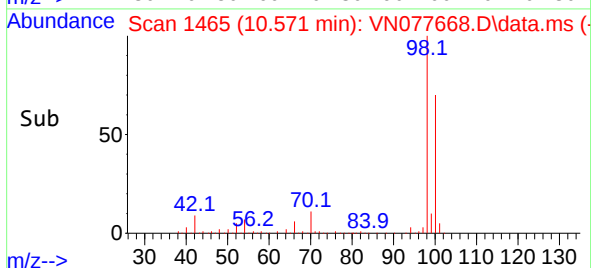
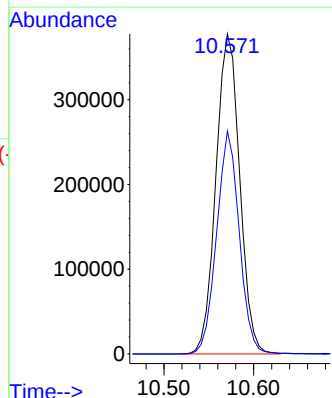
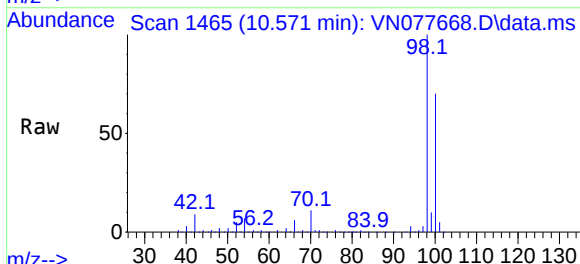
Instrument :
MSVOA_N
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VN0512WBL01

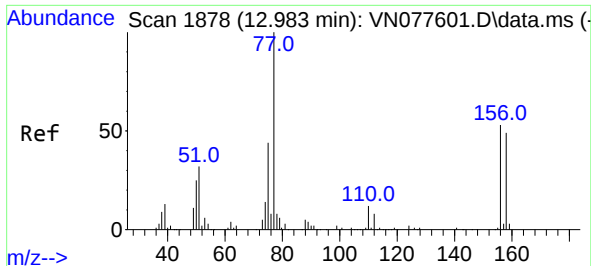
Tgt Ion: 95 Resp: 200645
Ion Ratio Lower Upper
95 100
174 84.7 53.4 80.0#
176 82.8 50.0 75.0#



#63
Toluene-d8
Concen: 29.274 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.001 min
Lab File: VN077668.D
Acq: 12 May 2023 12:36

Tgt Ion: 98 Resp: 695646
Ion Ratio Lower Upper
98 100
100 66.1 52.1 78.1

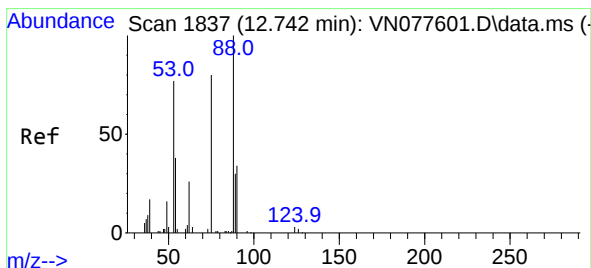
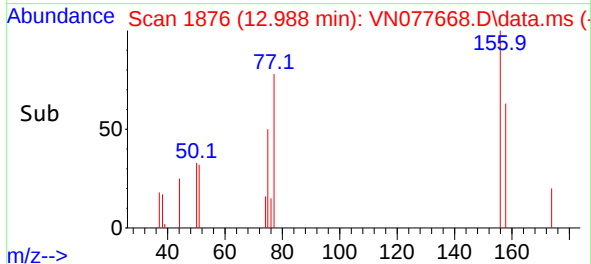
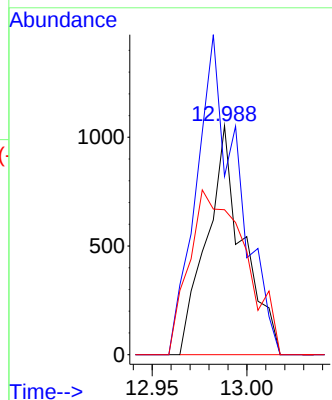
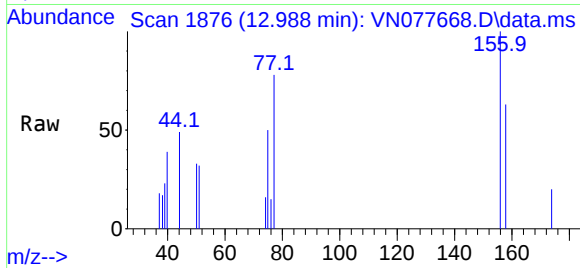




#73
Bromobenzene
Concen: 0.210 ug/l
RT: 12.988 min Scan# 1878
Delta R.T. 0.005 min
Lab File: VN077668.D
Acq: 12 May 2023 12:36

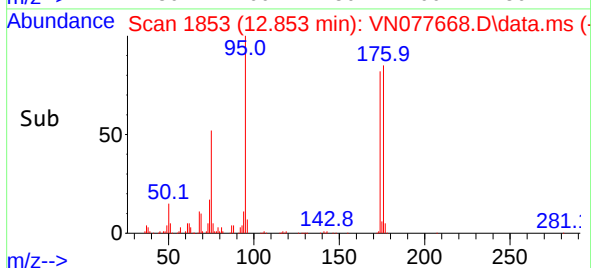
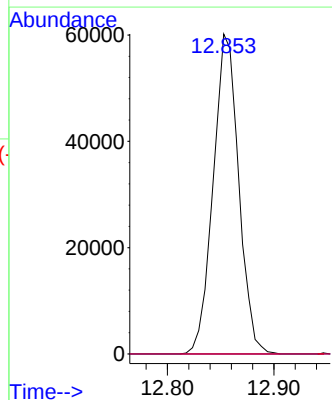
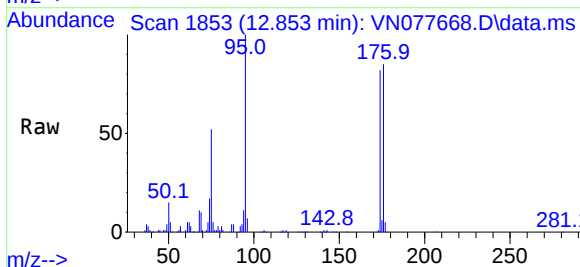
Instrument :
MSVOA_N
ClientSampleId :
VN0512WBL01

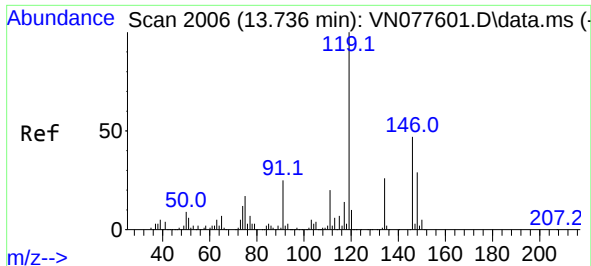
Tgt Ion:156 Resp: 1394
Ion Ratio Lower Upper
156 100
77 160.9 0.0 466.4
158 111.7 0.0 196.2



#77
t-1,4-Dichloro-2-butene
Concen: 40.505 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.111 min
Lab File: VN077668.D
Acq: 12 May 2023 12:36

Tgt Ion: 75 Resp: 100078
Ion Ratio Lower Upper
75 100
53 0.0 46.9 140.7#
89 0.0 21.0 63.0#

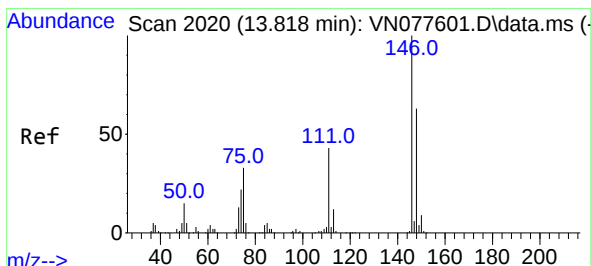
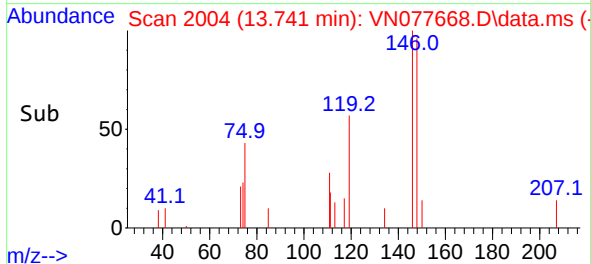
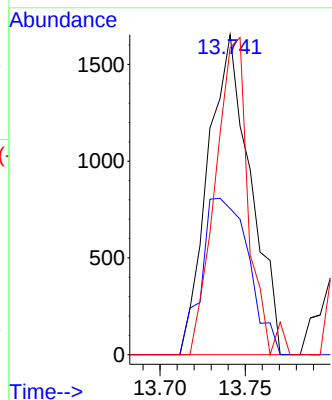
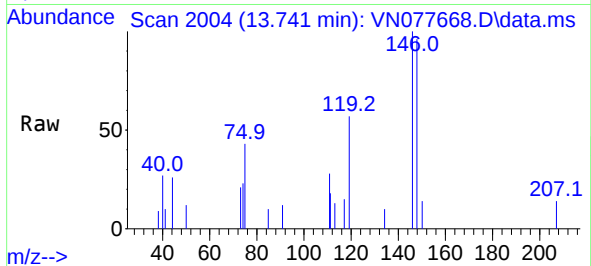




#83
1,3-Dichlorobenzene
Concen: 0.232 ug/l
RT: 13.741 min Scan# 20
Delta R.T. 0.005 min
Lab File: VN077668.D
Acq: 12 May 2023 12:36

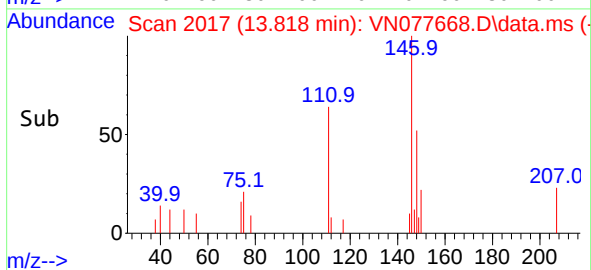
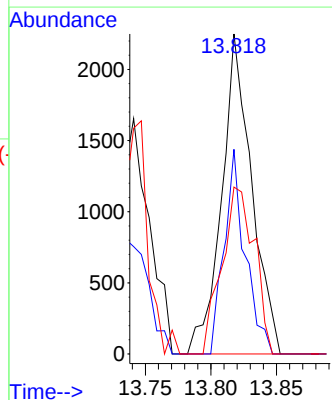
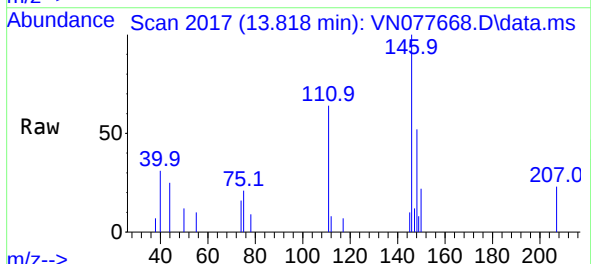
Instrument :
MSVOA_N
ClientSampleId :
VN0512WBL01

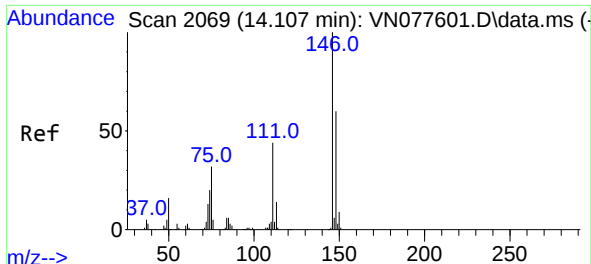
Tgt Ion:146	Resp:	2863
Ion Ratio	Lower	Upper
146	100	
111	54.1	22.1 66.1
148	75.7	32.5 97.4



#84
1,4-Dichlorobenzene
Concen: 0.296 ug/l
RT: 13.818 min Scan# 2017
Delta R.T. -0.000 min
Lab File: VN077668.D
Acq: 12 May 2023 12:36

Tgt Ion:146	Resp:	3574
Ion Ratio	Lower	Upper
146	100	
111	44.7	20.8 62.4
148	56.7	31.1 93.5





#87

1,2-Dichlorobenzene

Concen: 0.268 ug/l

RT: 14.118 min Scan# 2068

Delta R.T. 0.011 min

Lab File: VN077668.D

Acq: 12 May 2023 12:36

Instrument :

MSVOA_N

ClientSampleId :

VN0512WBL01

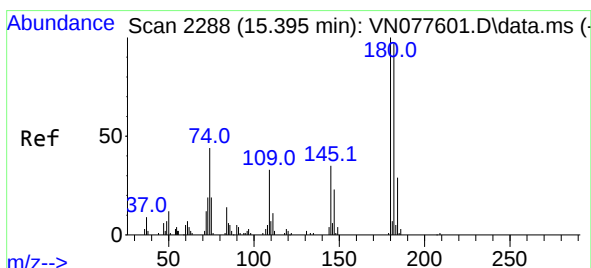
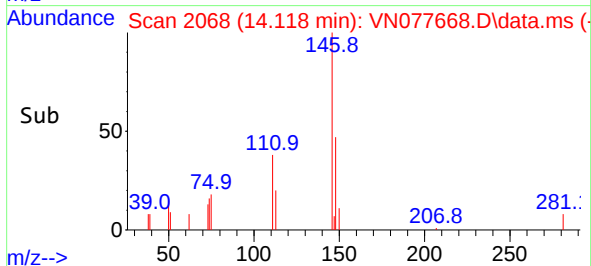
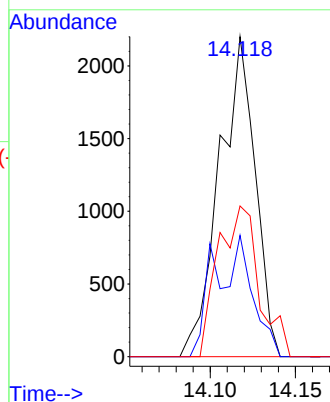
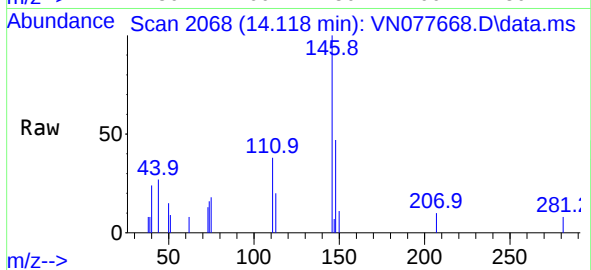
Tgt Ion:146 Resp: 3211

Ion Ratio Lower Upper

146 100

111 24.4 22.7 68.0

148 50.7 31.0 93.0



#89

1,2,4-Trichlorobenzene

Concen: 0.432 ug/l

RT: 15.406 min Scan# 2287

Delta R.T. 0.011 min

Lab File: VN077668.D

Acq: 12 May 2023 12:36

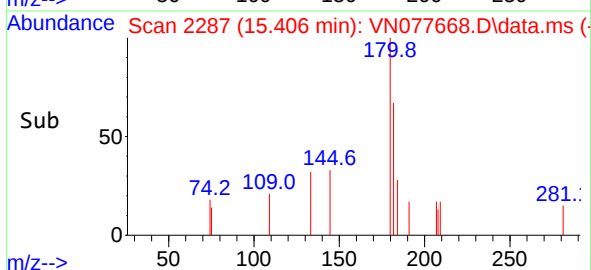
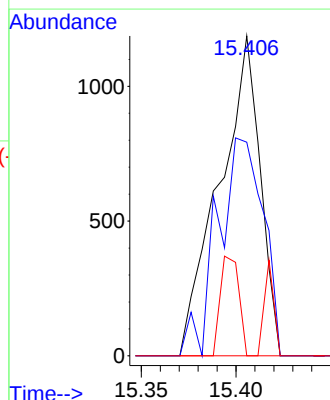
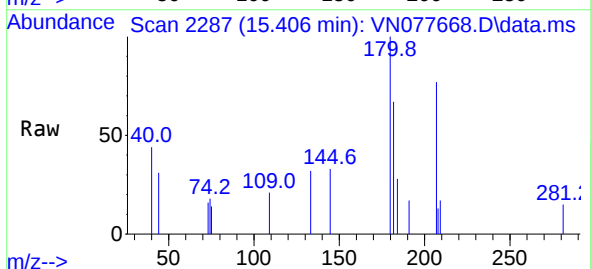
Tgt Ion:180 Resp: 1782

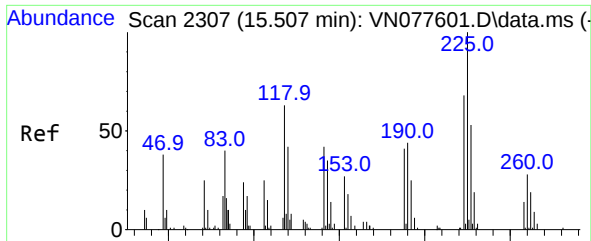
Ion Ratio Lower Upper

180 100

182 72.6 75.1 112.7#

145 14.2 28.6 43.0#

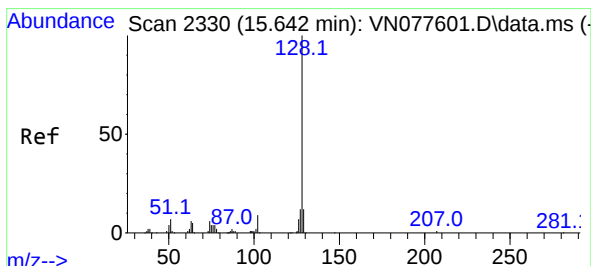
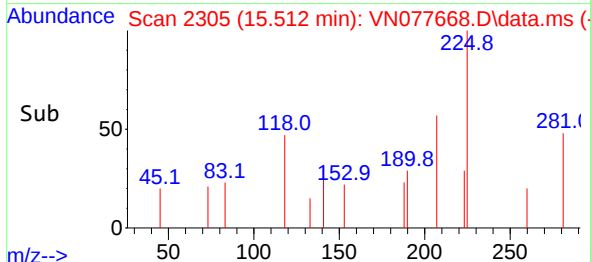
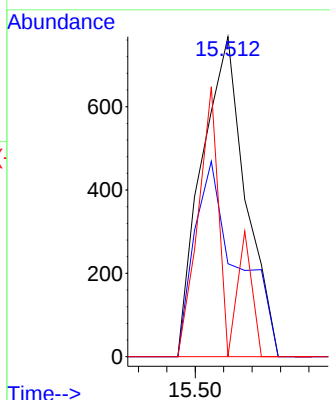
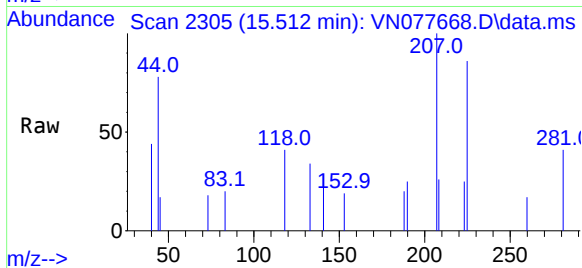




#90
Hexachlorobutadiene
Concen: 0.354 ug/l
RT: 15.512 min Scan# 21
Delta R.T. 0.005 min
Lab File: VN077668.D
Acq: 12 May 2023 12:36

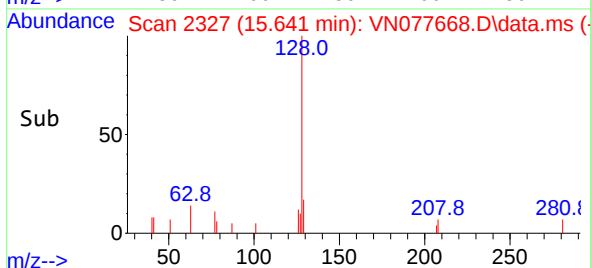
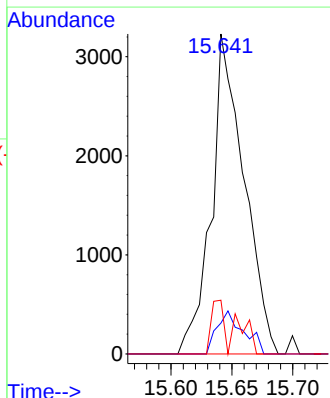
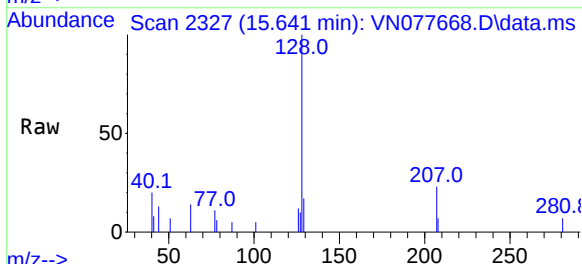
Instrument :
MSVOA_N
ClientSampleId :
VN0512WBL01

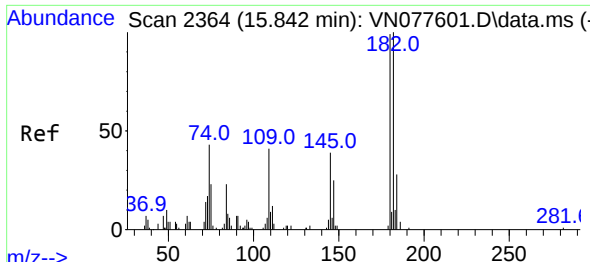
Tgt Ion:225 Resp: 825
Ion Ratio Lower Upper
225 100
223 9.0 0.0 132.2
227 12.8 0.0 116.2



#91
Naphthalene
Concen: 0.428 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.001 min
Lab File: VN077668.D
Acq: 12 May 2023 12:36

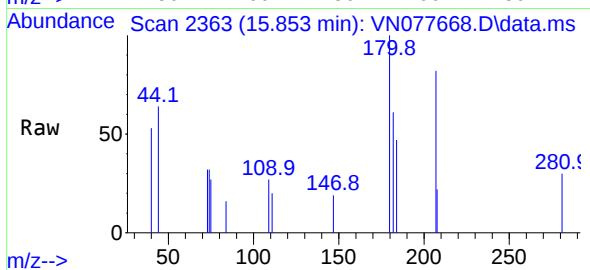
Tgt Ion:128 Resp: 6028
Ion Ratio Lower Upper
128 100
127 9.6 9.6 14.4
129 6.3 9.1 13.7#





#92
 1,2,3-Trichlorobenzene
 Concen: 0.531 ug/l
 RT: 15.853 min Scan# 21
 Delta R.T. 0.011 min
 Lab File: VN077668.D
 Acq: 12 May 2023 12:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0512WBL01



Tgt Ion:	180	Resp:	2020
Ion	Ratio	Lower	Upper
180	100		
182	59.3	0.0	193.4
145	3.1	0.0	78.6

