

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052423\
 Data File : VN077848.D
 Acq On : 24 May 2023 12:01
 Operator : JC\MD
 Sample : VN0524MBL01
 Misc : 5.00g/5.0mL/100uL5.0mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0524MBL01

Quant Time: May 25 01:41:31 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051523W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 16 04:07:42 2023
 Response via : Initial Calibration

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

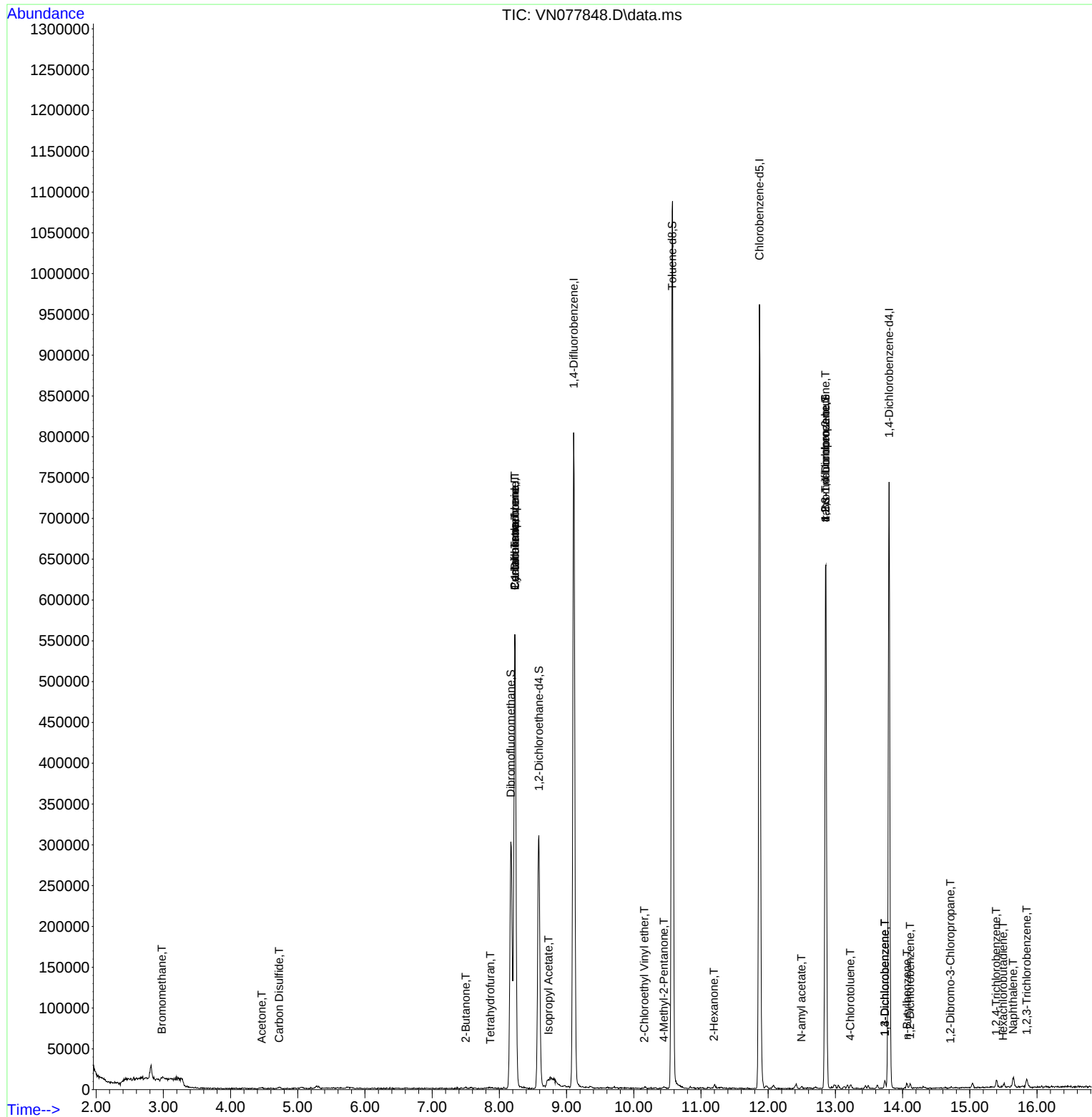
Internal Standards						
1) Pentafluorobenzene	8.229	168	397657	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	721293	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	581907	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	196135	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	263044	44.209	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	88.420%		
35) Dibromofluoromethane	8.171	113	223091	47.431	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.860%		
50) Toluene-d8	10.571	98	810642	44.777	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	89.560%		
62) 4-Bromofluorobenzene	12.853	95	242744	37.965	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	75.920%#		
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	857	Below Cal	#	80
5) Bromomethane	2.977	94	2283	0.541	ug/l #	72
13) Acrolein	4.183	56	288	Below Cal	#	36
16) Acetone	4.465	43	1418	0.758	ug/l #	77
17) Carbon Disulfide	4.724	76	4340	0.385	ug/l #	75
20) Methylene Chloride	5.289	84	1725	Below Cal	#	89
25) 2-Butanone	7.500	43	747	0.255	ug/l #	80
29) Tetrahydrofuran	7.865	42	581	0.303	ug/l #	60
31) Cyclohexane	8.229	56	9004	1.113	ug/l #	33
36) 1,1-Dichloropropene	8.229	75	33559	4.878	ug/l #	48
38) Carbon Tetrachloride	8.229	117	42631	6.137	ug/l #	14
43) Isopropyl Acetate	8.729	43	9683	0.967	ug/l #	49
51) 4-Methyl-2-Pentanone	10.447	43	2510	0.422	ug/l #	65
58) 2-Chloroethyl Vinyl ether	10.159	63	838	0.224	ug/l #	78
59) 2-Hexanone	11.194	43	3785	0.860	ug/l	70
74) N-amyl acetate	12.494	43	2309	0.369	ug/l #	68
76) 1,2,3-Trichloropropane	12.853	75	126614	25.777	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	126614	82.396	ug/l #	15
82) 4-Chlorotoluene	13.223	91	3876	0.328	ug/l	94
87) 1,3-Dichlorobenzene	13.735	146	2317	0.325	ug/l	80
88) 1,4-Dichlorobenzene	13.735	146	2317	0.327	ug/l	77
89) n-Butylbenzene	14.064	91	3837	0.297	ug/l	88
91) 1,2-Dichlorobenzene	14.111	146	2388	0.358	ug/l	87
92) 1,2-Dibromo-3-Chloropr...	14.711	75	288	0.286	ug/l #	55
93) 1,2,4-Trichlorobenzene	15.394	180	3333	0.856	ug/l	98
94) Hexachlorobutadiene	15.494	225	778	0.481	ug/l #	19
95) Naphthalene	15.647	128	12187	0.909	ug/l	97
96) 1,2,3-Trichlorobenzene	15.847	180	4014	1.052	ug/l	95

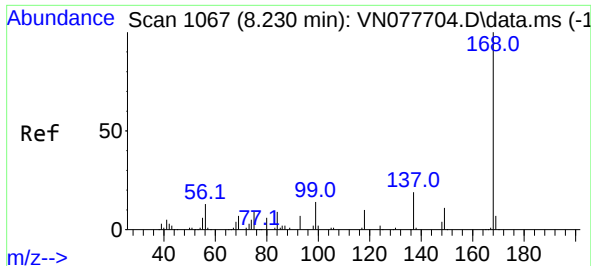
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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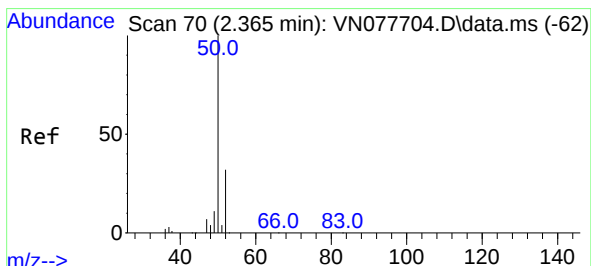
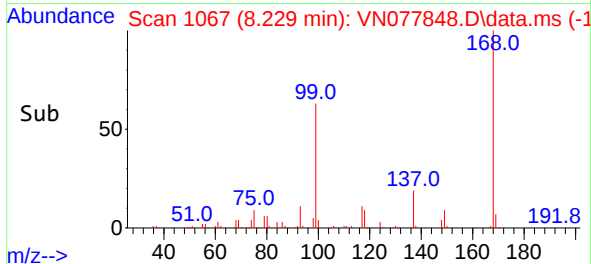
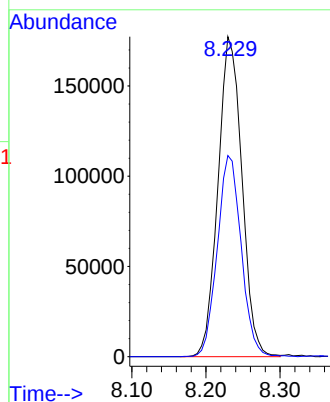
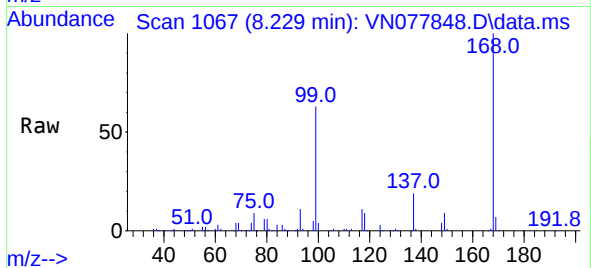




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 10
Delta R.T. -0.001 min
Lab File: VN077848.D
Acq: 24 May 2023 12:01

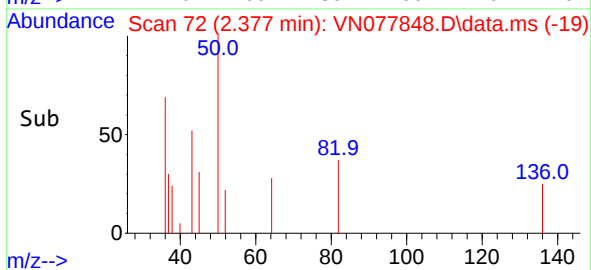
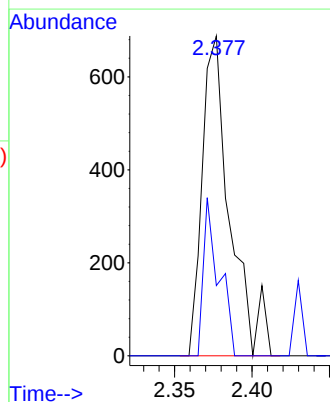
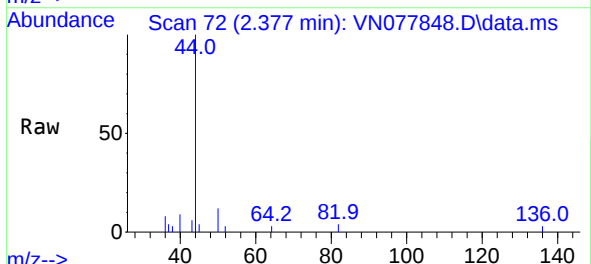
Instrument :
MSVOA_N
ClientSampleId :
VN0524MBL01

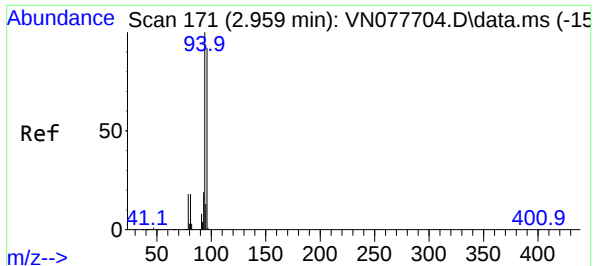
Tgt Ion:168 Resp: 397657
Ion Ratio Lower Upper
168 100
99 62.8 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.377 min Scan# 72
Delta R.T. 0.012 min
Lab File: VN077848.D
Acq: 24 May 2023 12:01

Tgt Ion: 50 Resp: 857
Ion Ratio Lower Upper
50 100
52 21.9 26.5 39.7#

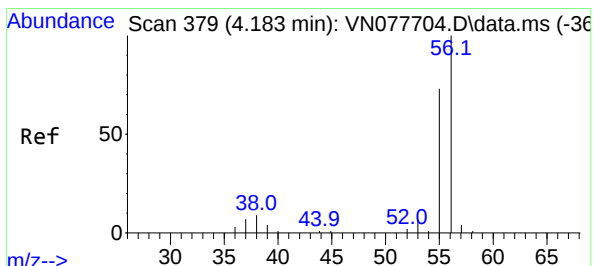
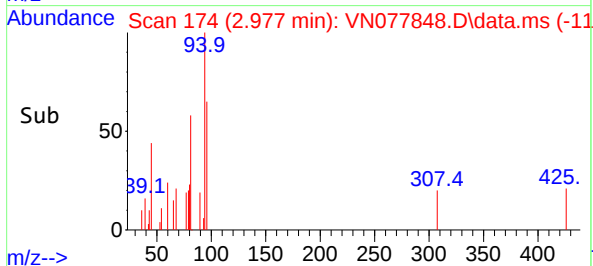
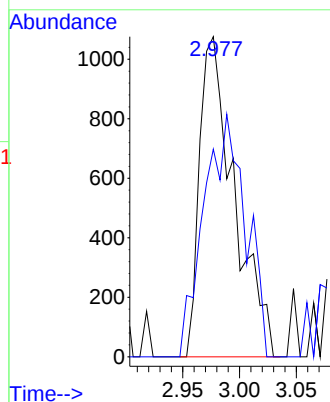
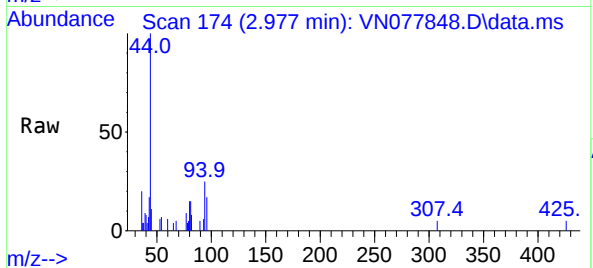




#5
Bromomethane
Concen: 0.541 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.030 min
Lab File: VN077848.D
Acq: 24 May 2023 12:01

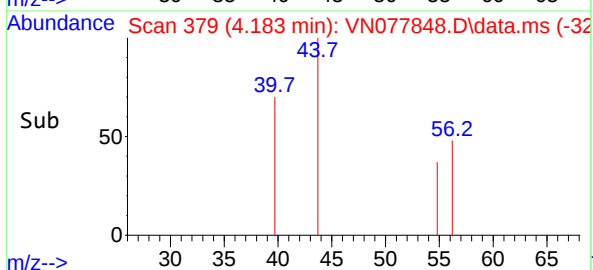
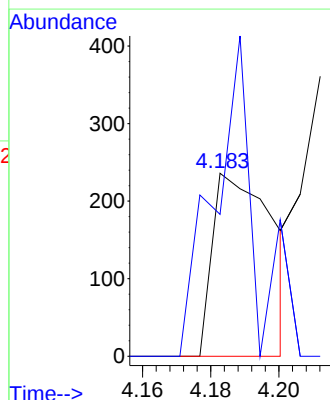
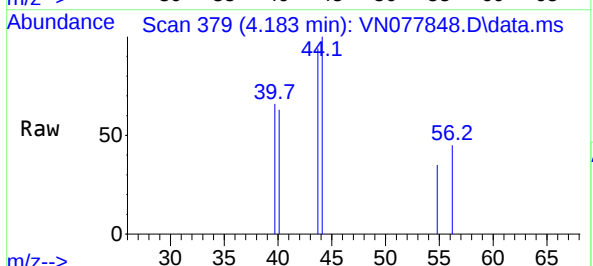
Instrument :
MSVOA_N
ClientSampleId :
VN0524MBL01

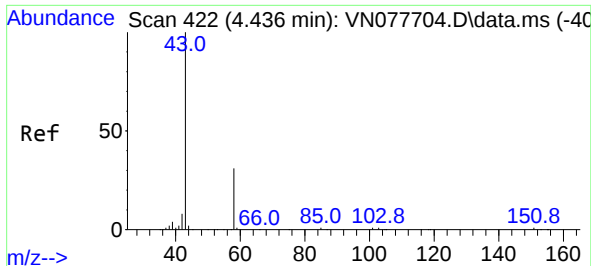
Tgt Ion: 94 Resp: 2283
Ion Ratio Lower Upper
94 100
96 64.9 73.1 109.7#



#13
Acrolein
Concen: Below Cal
RT: 4.183 min Scan# 379
Delta R.T. -0.006 min
Lab File: VN077848.D
Acq: 24 May 2023 12:01

Tgt Ion: 56 Resp: 288
Ion Ratio Lower Upper
56 100
55 120.1 54.5 81.7#

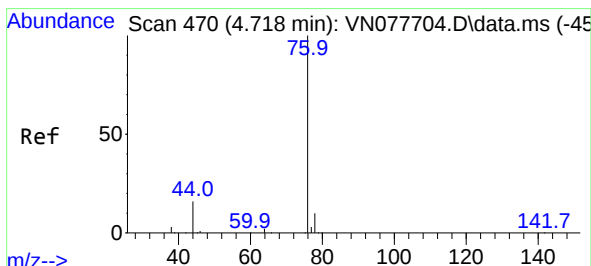
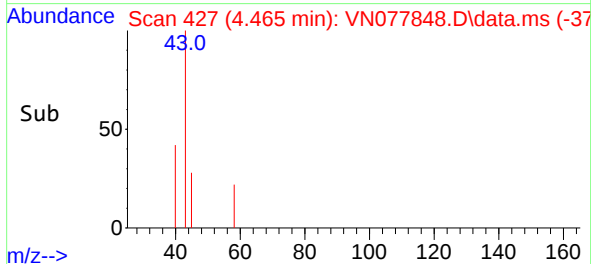
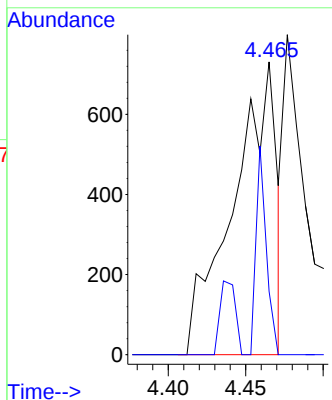
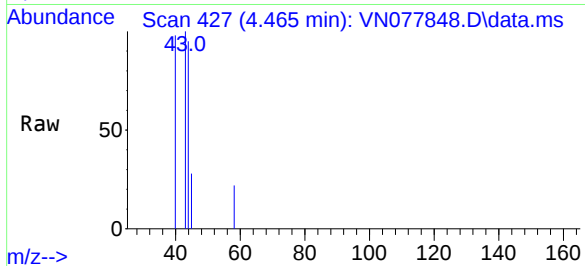




#16
Acetone
Concen: 0.758 ug/l
RT: 4.465 min Scan# 41
Delta R.T. 0.035 min
Lab File: VN077848.D
Acq: 24 May 2023 12:01

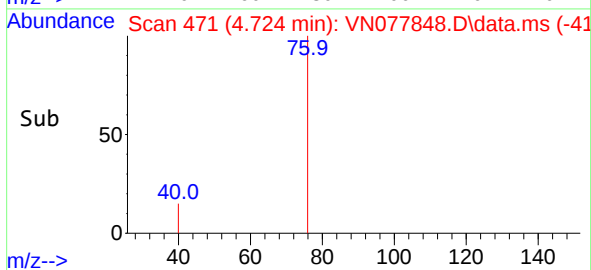
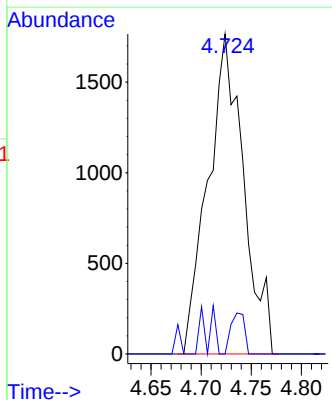
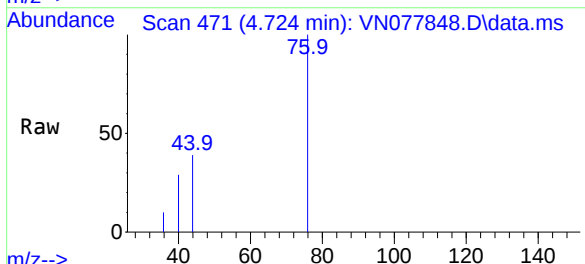
Instrument :
MSVOA_N
ClientSampleId :
VN0524MBL01

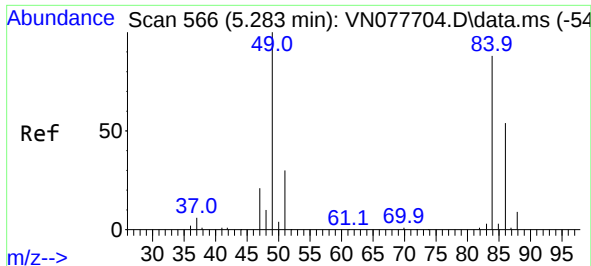
Tgt Ion: 43 Resp: 1418
Ion Ratio Lower Upper
43 100
58 21.6 28.0 42.0#



#17
Carbon Disulfide
Concen: 0.385 ug/l
RT: 4.724 min Scan# 471
Delta R.T. 0.012 min
Lab File: VN077848.D
Acq: 24 May 2023 12:01

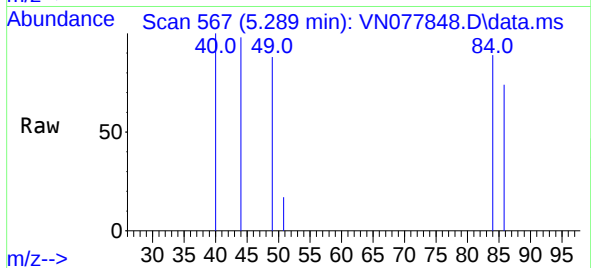
Tgt Ion: 76 Resp: 4340
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#





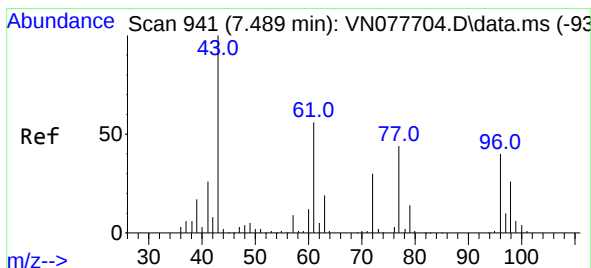
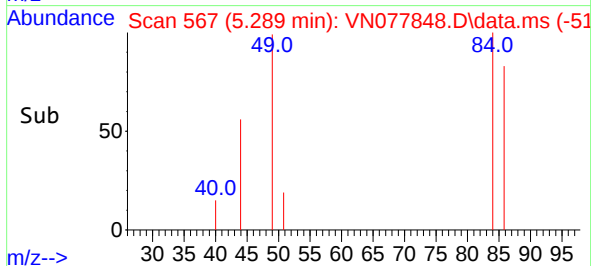
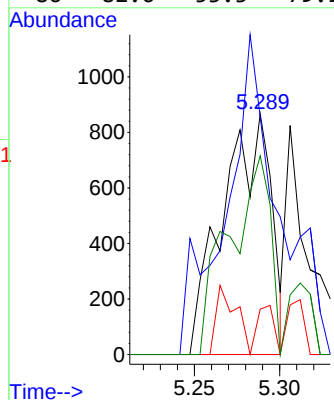
#20
Methylene Chloride
Concen: Below Cal
RT: 5.289 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN077848.D
Acq: 24 May 2023 12:01

Instrument :
MSVOA_N
ClientSampleId :
VN0524MBL01



Tgt Ion: 84 Resp: 1725

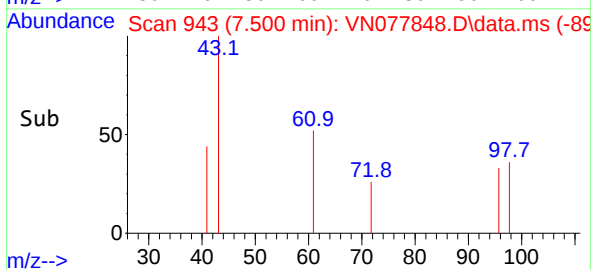
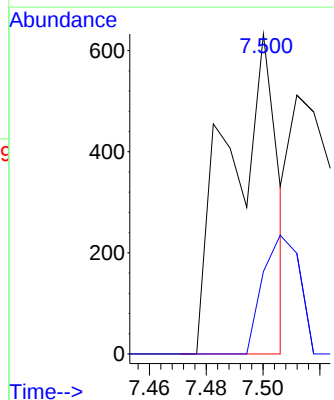
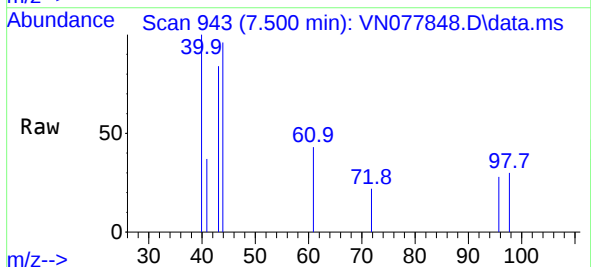
Ion	Ratio	Lower	Upper
84	100		
49	98.7	79.7	119.5
51	18.8	25.2	37.8#
86	82.6	53.3	79.9#

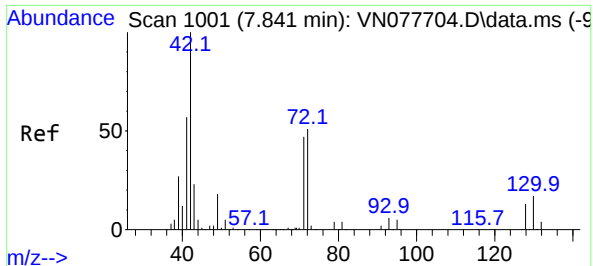


#25
2-Butanone
Concen: 0.255 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.012 min
Lab File: VN077848.D
Acq: 24 May 2023 12:01

Tgt Ion: 43 Resp: 747

Ion	Ratio	Lower	Upper
43	100		
72	25.8	30.2	45.2#

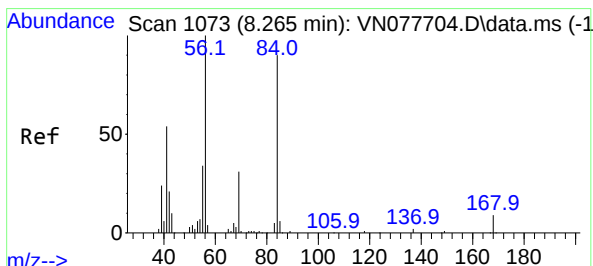
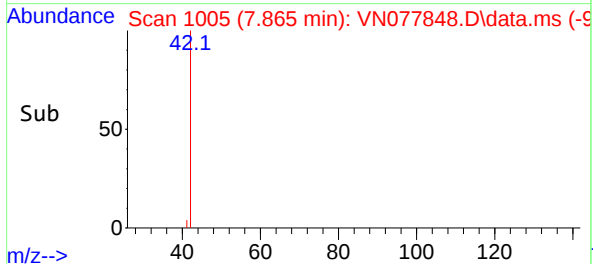
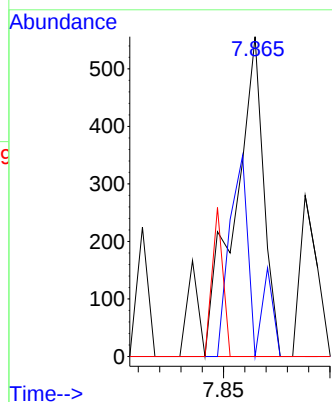
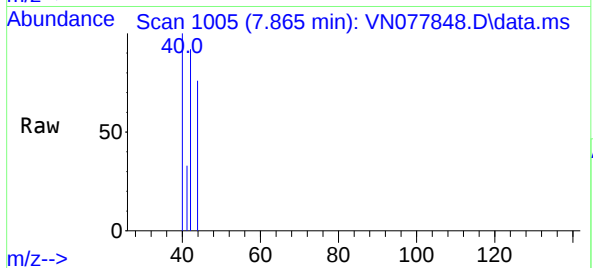




#29
Tetrahydrofuran
Concen: 0.303 ug/l
RT: 7.865 min Scan# 1005
Delta R.T. 0.024 min
Lab File: VN077848.D
Acq: 24 May 2023 12:01

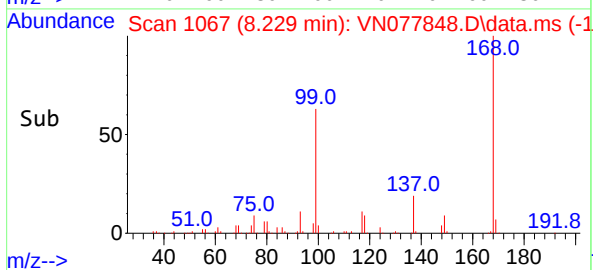
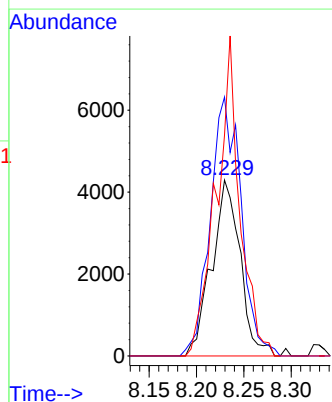
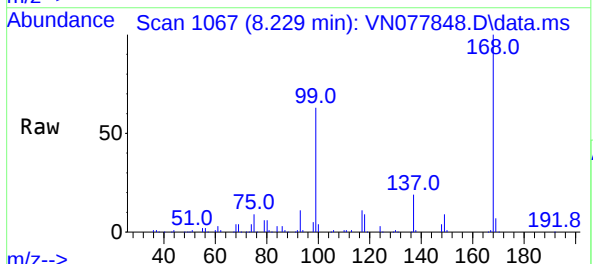
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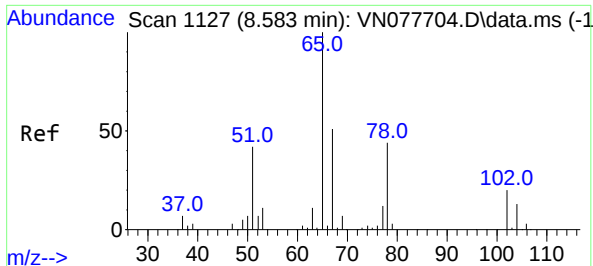
Tgt Ion: 42 Resp: 581
Ion Ratio Lower Upper
42 100
72 45.1 49.8 74.6#
71 15.7 47.4 71.2#



#31
Cyclohexane
Concen: 1.113 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.036 min
Lab File: VN077848.D
Acq: 24 May 2023 12:01

Tgt Ion: 56 Resp: 9004
Ion Ratio Lower Upper
56 100
69 147.2 26.8 40.2#
84 125.6 81.8 122.6#

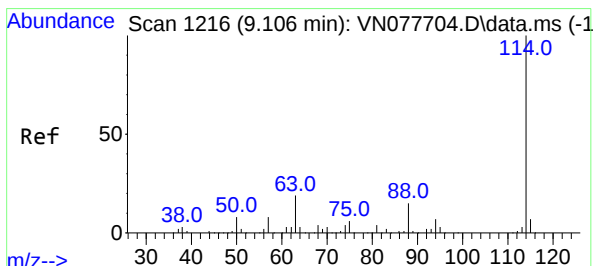
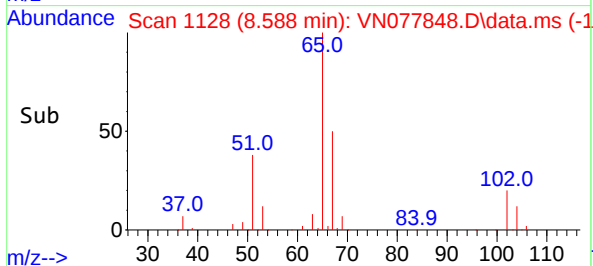
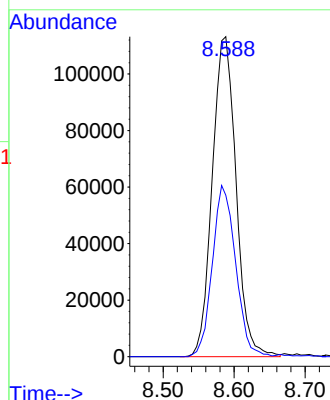
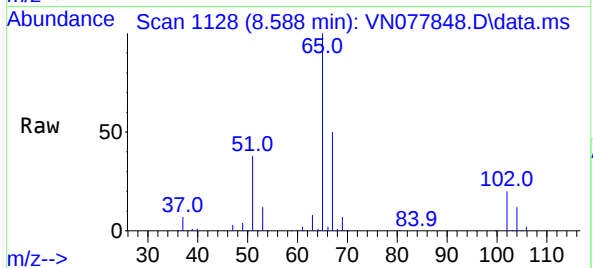




#33
1,2-Dichloroethane-d4
Concen: 44.209 ug/l
RT: 8.588 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN077848.D
Acq: 24 May 2023 12:01

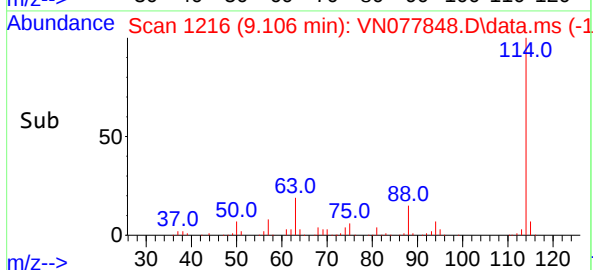
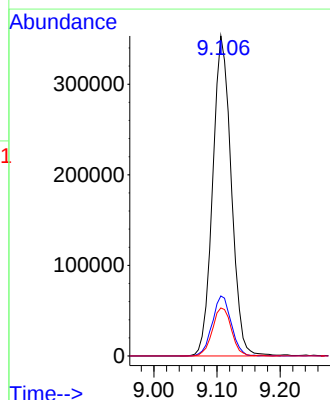
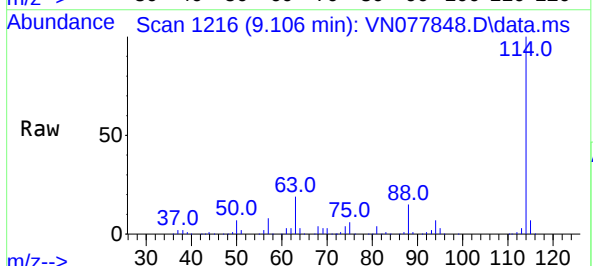
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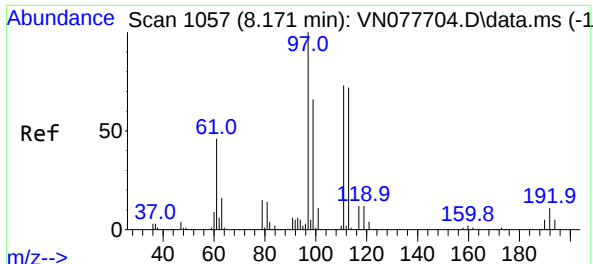
Tgt Ion: 65 Resp: 263044
Ion Ratio Lower Upper
65 100
67 52.4 0.0 106.6



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN077848.D
Acq: 24 May 2023 12:01

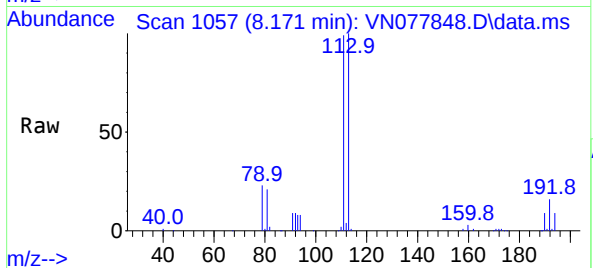
Tgt Ion: 114 Resp: 721293
Ion Ratio Lower Upper
114 100
63 18.8 0.0 36.4
88 15.0 0.0 30.6



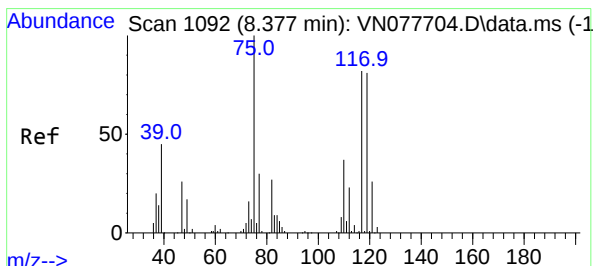
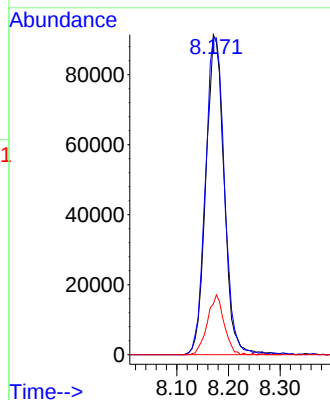
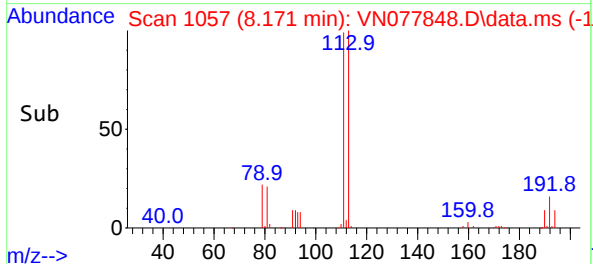


#35
Dibromofluoromethane
Concen: 47.431 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN077848.D
Acq: 24 May 2023 12:01

Instrument :
MSVOA_N
ClientSampleId :
VN0524MBL01

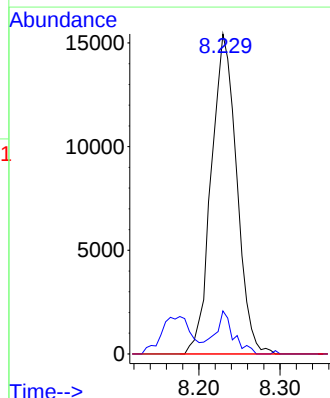
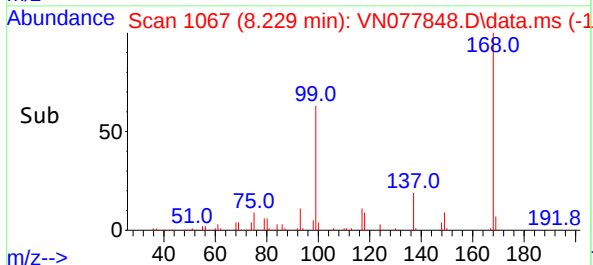
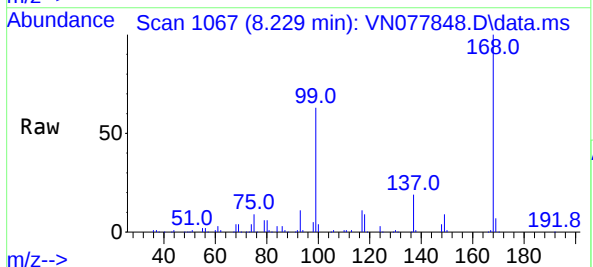


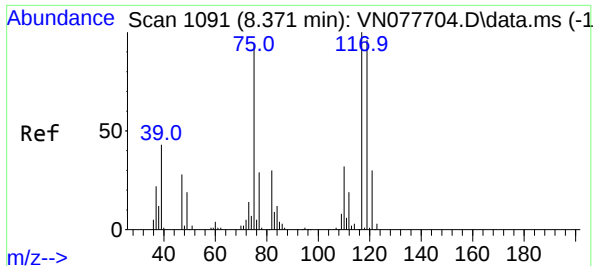
Tgt Ion:113 Resp: 223091
Ion Ratio Lower Upper
113 100
111 103.7 82.6 123.8
192 17.2 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.878 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.148 min
Lab File: VN077848.D
Acq: 24 May 2023 12:01

Tgt Ion: 75 Resp: 33559
Ion Ratio Lower Upper
75 100
110 9.5 19.1 57.3#
77 0.0 25.0 37.4#

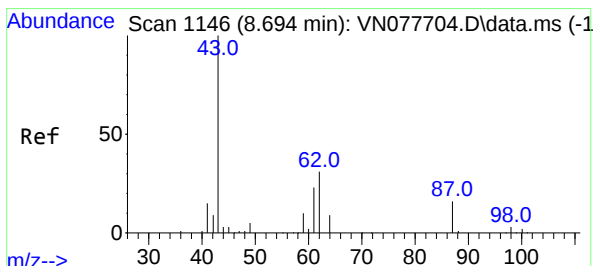
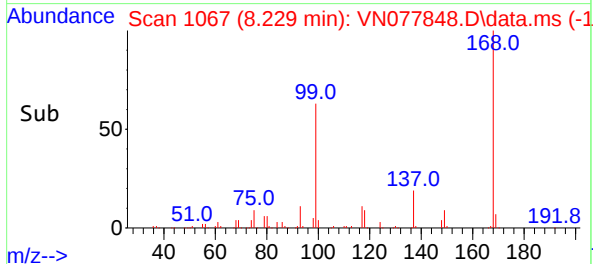
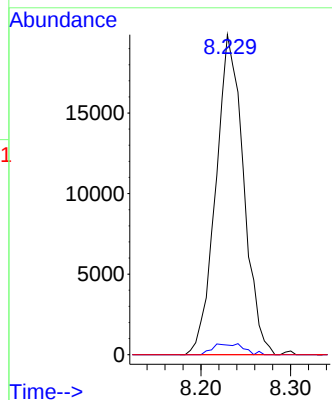
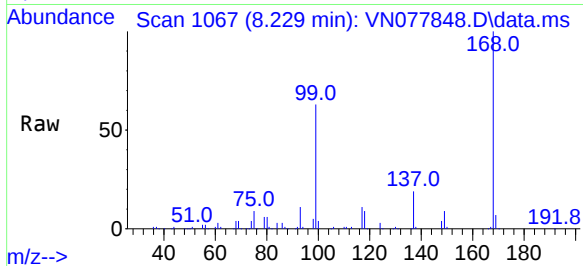




#38
Carbon Tetrachloride
Concen: 6.137 ug/l
RT: 8.229 min Scan# 1107
Delta R.T. -0.142 min
Lab File: VN077848.D
Acq: 24 May 2023 12:01

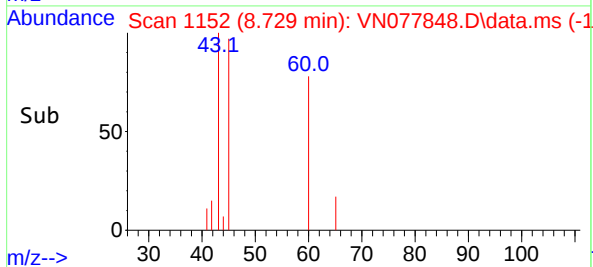
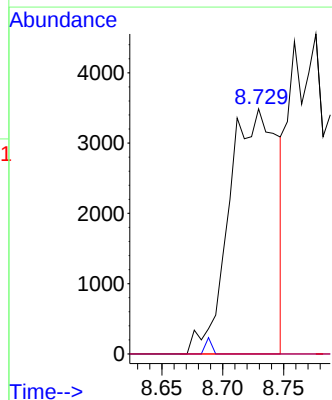
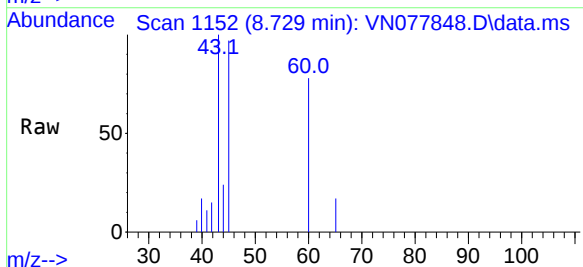
Instrument :
MSVOA_N
ClientSampleId :
VN0524MBL01

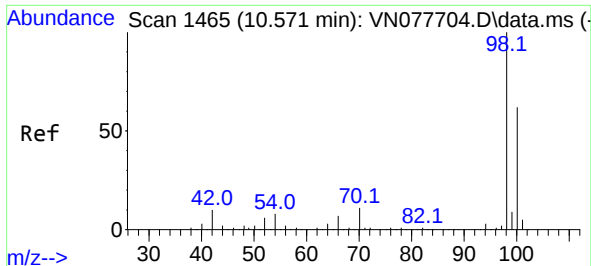
Tgt Ion:117 Resp: 42631
Ion Ratio Lower Upper
117 100
119 3.0 77.3 115.9#
121 0.0 23.3 34.9#



#43
Isopropyl Acetate
Concen: 0.967 ug/l
RT: 8.729 min Scan# 1152
Delta R.T. 0.035 min
Lab File: VN077848.D
Acq: 24 May 2023 12:01

Tgt Ion: 43 Resp: 9683
Ion Ratio Lower Upper
43 100
61 0.0 24.7 37.1#
87 0.0 14.6 21.8#

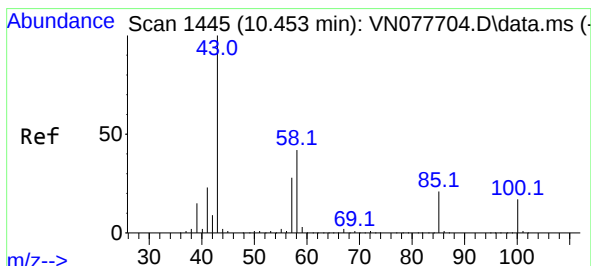
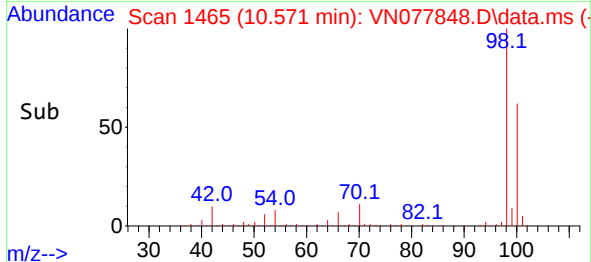
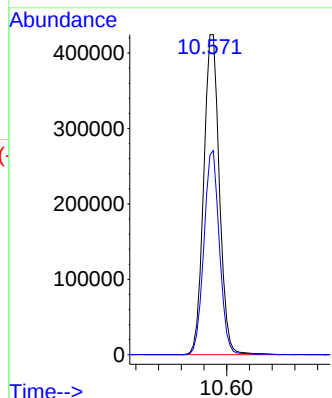
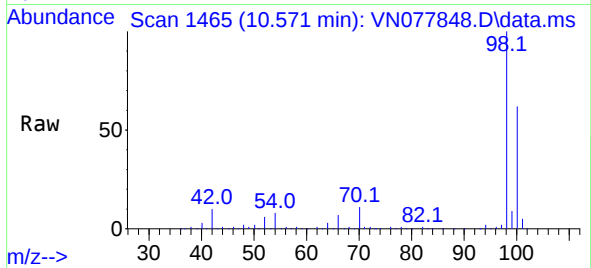




#50
Toluene-d8
Concen: 44.777 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN077848.D
Acq: 24 May 2023 12:01

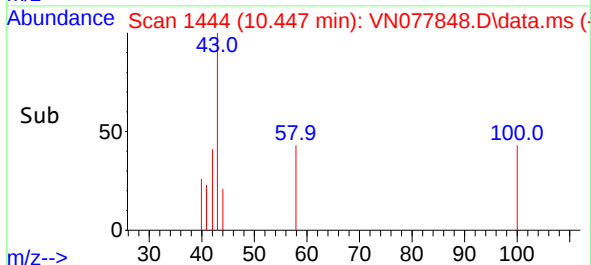
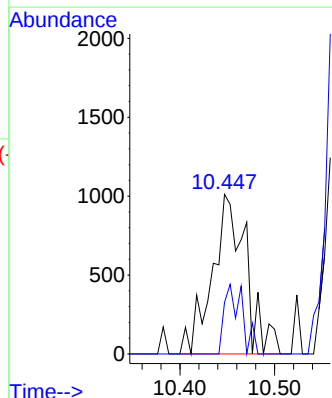
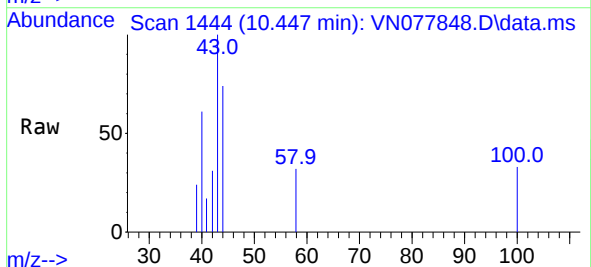
Instrument :
MSVOA_N
ClientSampleId :
VN0524MBL01

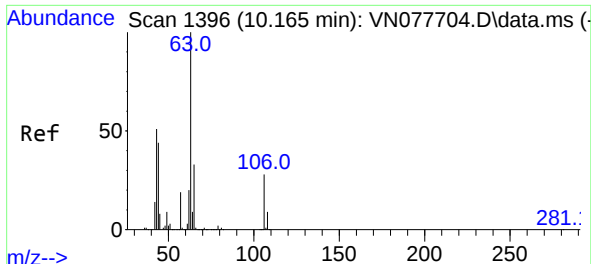
Tgt Ion: 98 Resp: 810642
Ion Ratio Lower Upper
98 100
100 63.1 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 0.422 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN077848.D
Acq: 24 May 2023 12:01

Tgt Ion: 43 Resp: 2510
Ion Ratio Lower Upper
43 100
58 22.8 36.6 54.8#

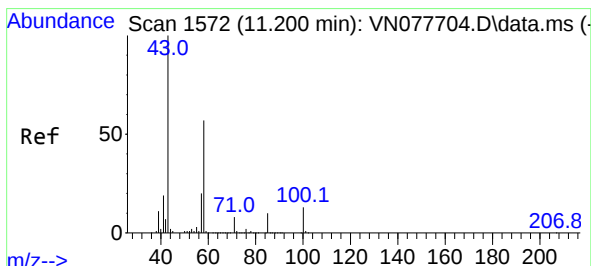
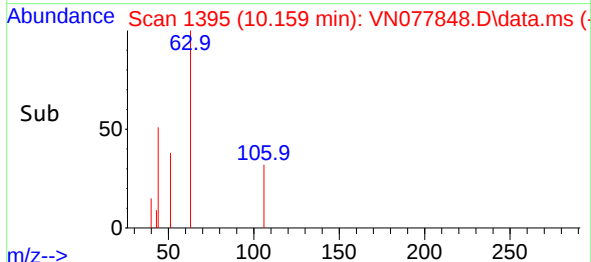
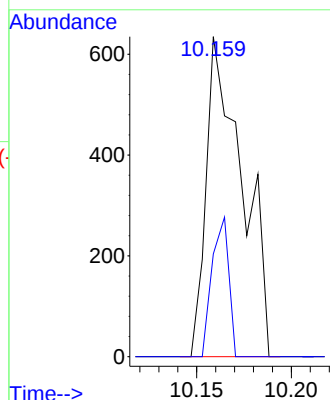
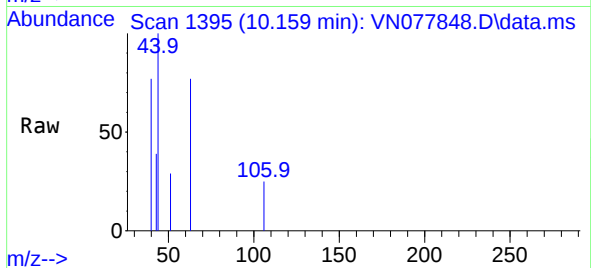




#58
2-Chloroethyl Vinyl ether
Concen: 0.224 ug/l
RT: 10.159 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN077848.D
Acq: 24 May 2023 12:01

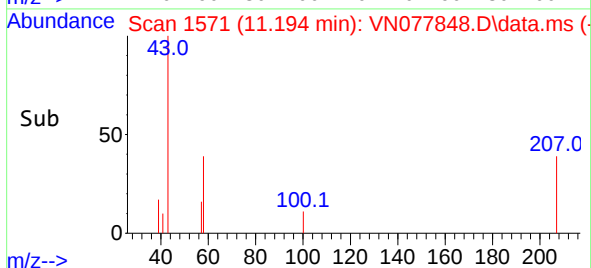
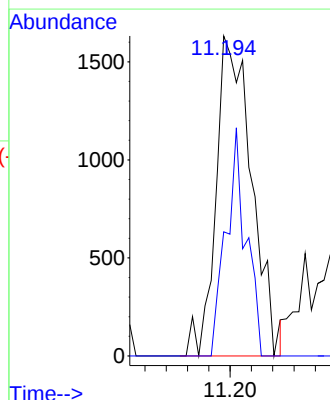
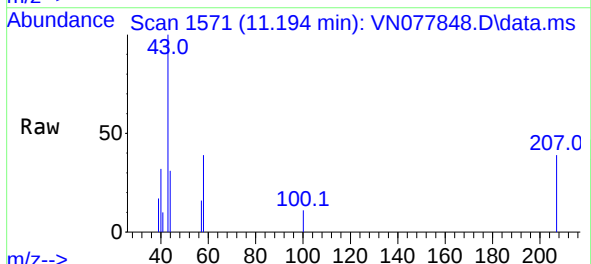
Instrument :
MSVOA_N
ClientSampleId :
VN0524MBL01

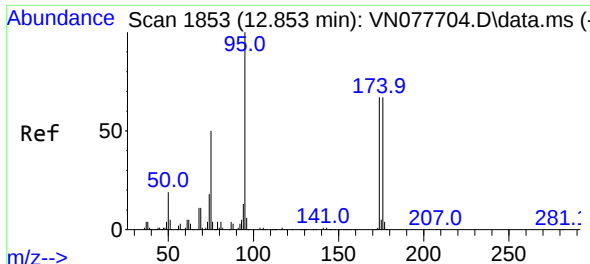
Tgt Ion: 63 Resp: 838
Ion Ratio Lower Upper
63 100
106 20.3 26.2 39.4#



#59
2-Hexanone
Concen: 0.860 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.006 min
Lab File: VN077848.D
Acq: 24 May 2023 12:01

Tgt Ion: 43 Resp: 3785
Ion Ratio Lower Upper
43 100
58 40.1 31.7 95.1

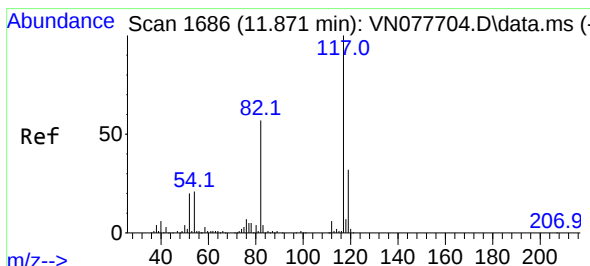
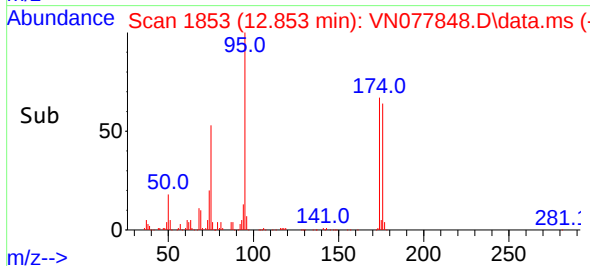
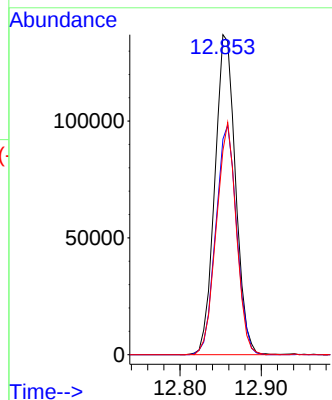
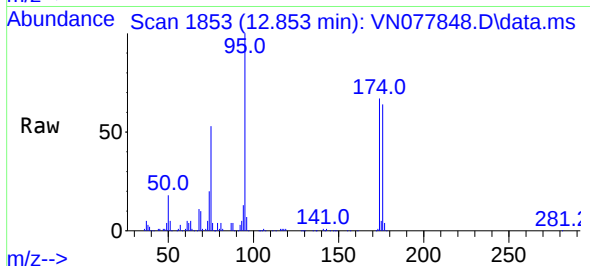




#62
4-Bromofluorobenzene
Concen: 37.965 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN077848.D
Acq: 24 May 2023 12:01

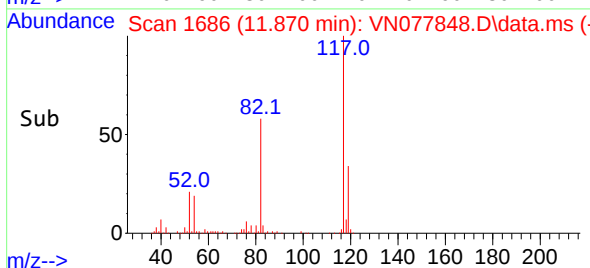
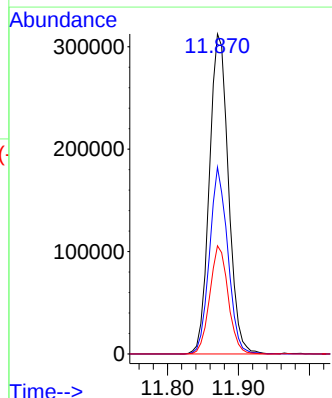
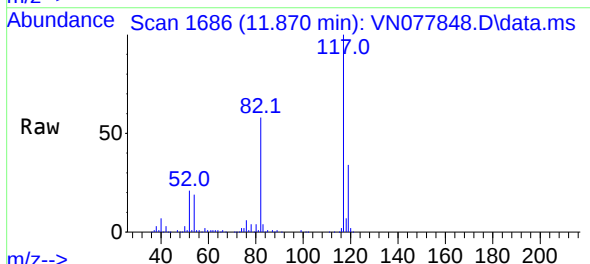
Instrument :
MSVOA_N
ClientSampleId :
VN0524MBL01

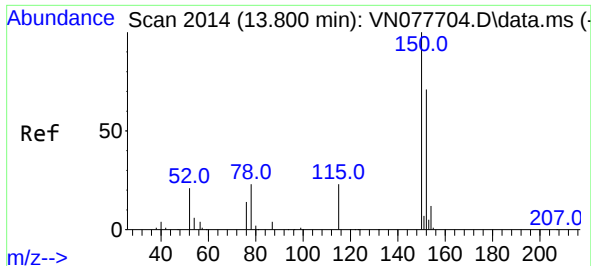
Tgt Ion: 95 Resp: 242744
Ion Ratio Lower Upper
95 100
174 72.3 0.0 143.8
176 70.2 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN077848.D
Acq: 24 May 2023 12:01

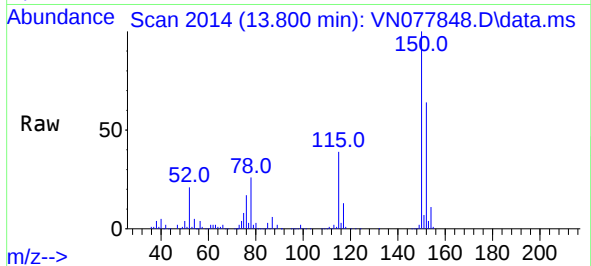
Tgt Ion: 117 Resp: 581907
Ion Ratio Lower Upper
117 100
82 58.4 44.0 66.0
119 33.8 25.6 38.4



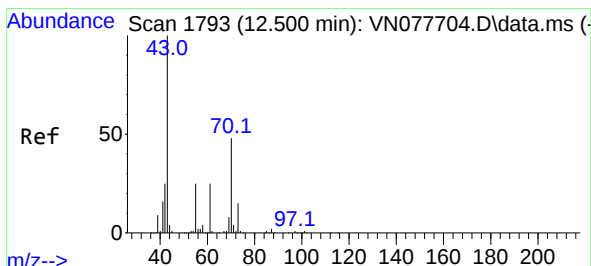
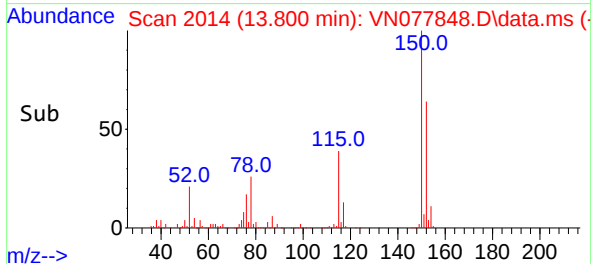
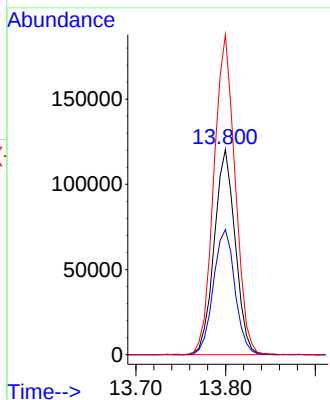


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN077848.D
Acq: 24 May 2023 12:01

Instrument :
MSVOA_N
ClientSampleId :
VN0524MBL01

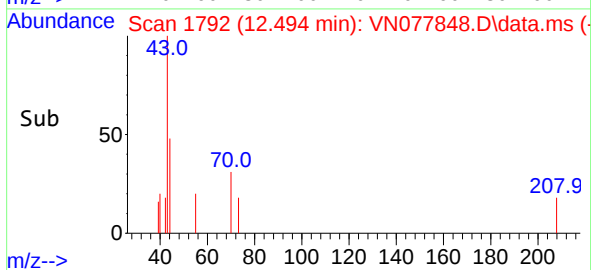
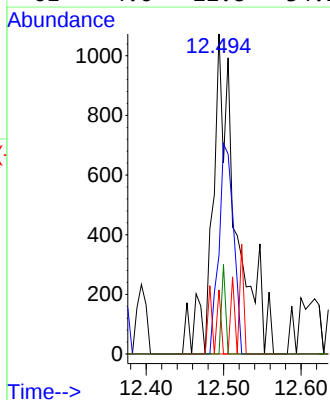
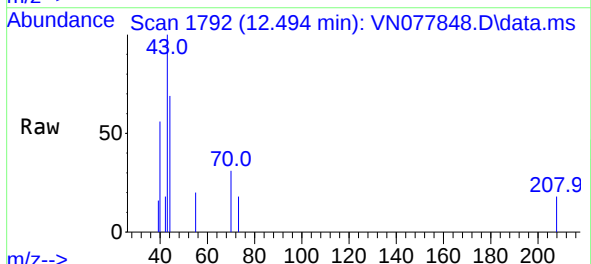


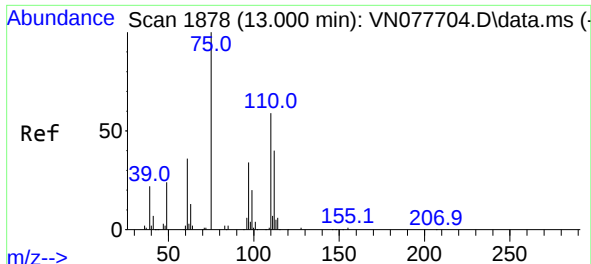
Tgt Ion:152 Resp: 196135
Ion Ratio Lower Upper
152 100
115 62.5 32.3 96.8
150 158.0 0.0 355.8



#74
N-ethyl acetate
Concen: 0.369 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.006 min
Lab File: VN077848.D
Acq: 24 May 2023 12:01

Tgt Ion: 43 Resp: 2309
Ion Ratio Lower Upper
43 100
70 40.1 43.4 65.2#
55 3.9 21.4 32.0#
61 4.6 22.8 34.2#

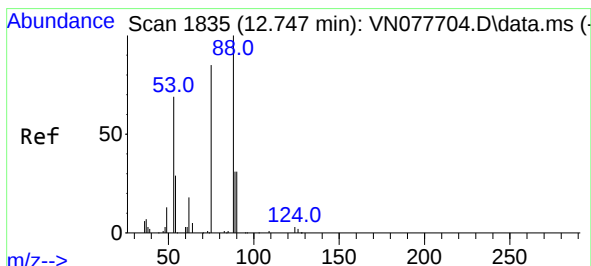
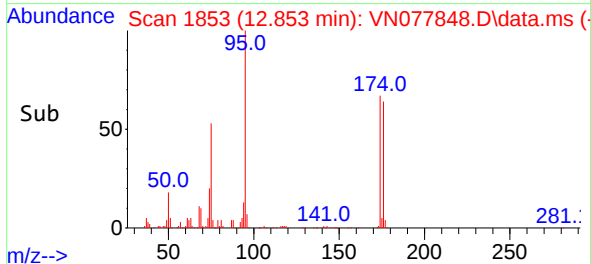
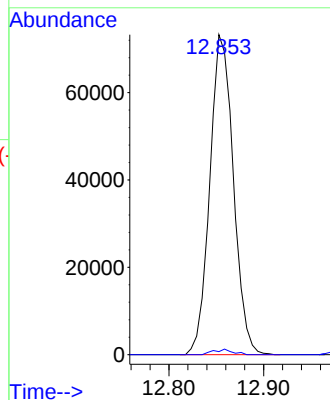
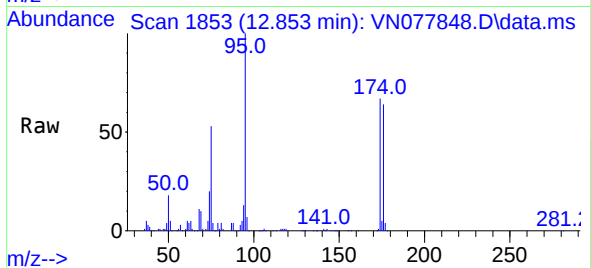




#76
1,2,3-Trichloropropane
Concen: 25.777 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN077848.D
Acq: 24 May 2023 12:01

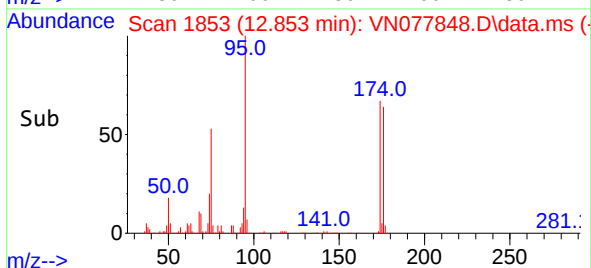
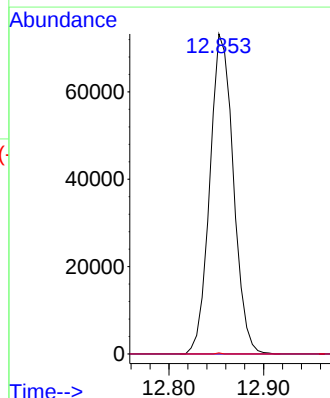
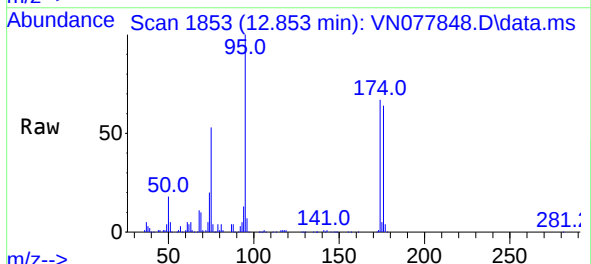
Instrument :
MSVOA_N
ClientSampleId :
VN0524MBL01

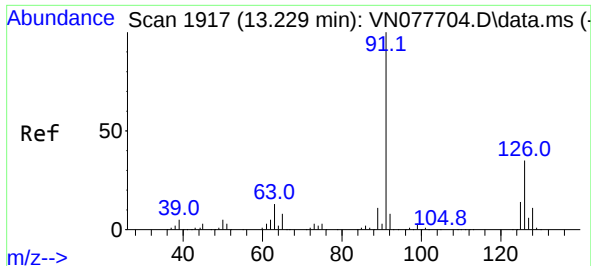
Tgt Ion: 75 Resp: 126614
Ion Ratio Lower Upper
75 100
77 1.4 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 82.396 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN077848.D
Acq: 24 May 2023 12:01

Tgt Ion: 75 Resp: 126614
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.1 38.8 58.2#

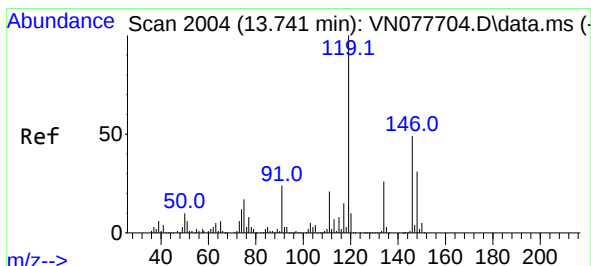
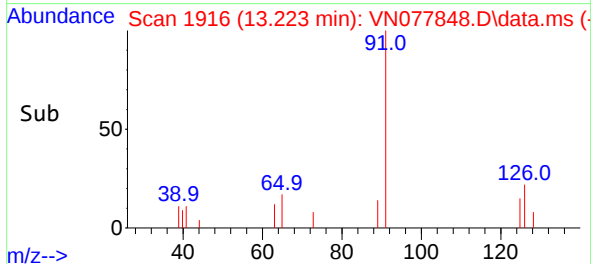
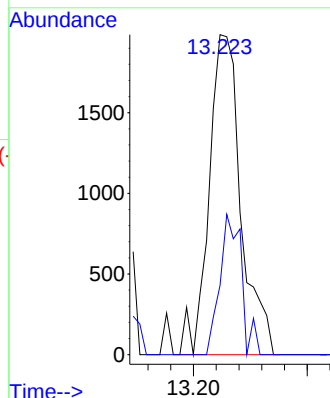
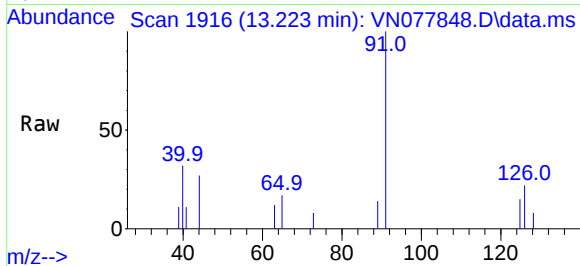




#82
4-Chlorotoluene
Concen: 0.328 ug/l
RT: 13.223 min Scan# 1917
Delta R.T. -0.006 min
Lab File: VN077848.D
Acq: 24 May 2023 12:01

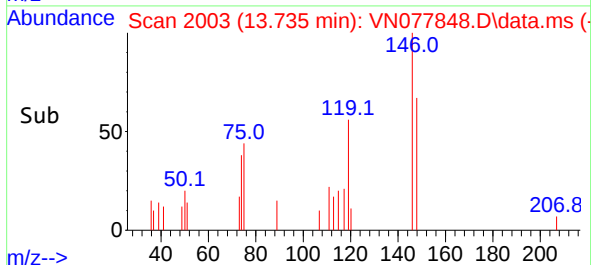
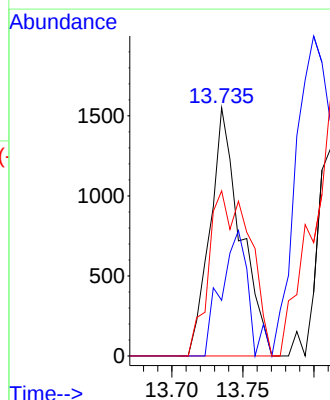
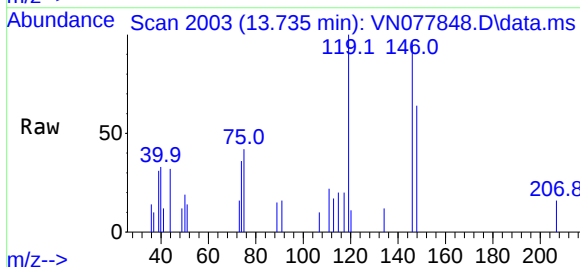
Instrument :
MSVOA_N
ClientSampleId :
VN0524MBL01

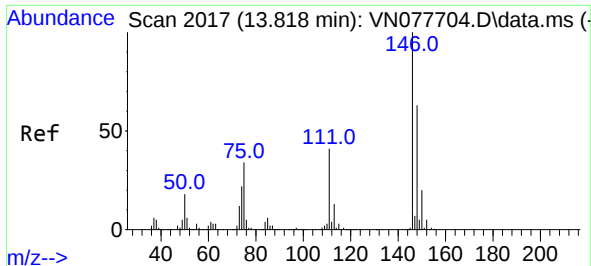
Tgt Ion: 91 Resp: 3876
Ion Ratio Lower Upper
91 100
126 29.6 16.7 50.0



#87
1,3-Dichlorobenzene
Concen: 0.325 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. -0.006 min
Lab File: VN077848.D
Acq: 24 May 2023 12:01

Tgt Ion: 146 Resp: 2317
Ion Ratio Lower Upper
146 100
111 44.9 22.1 66.3
148 89.9 32.0 96.0

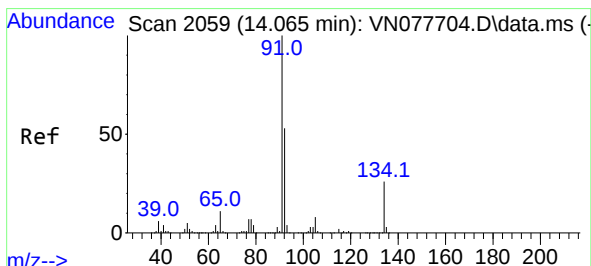
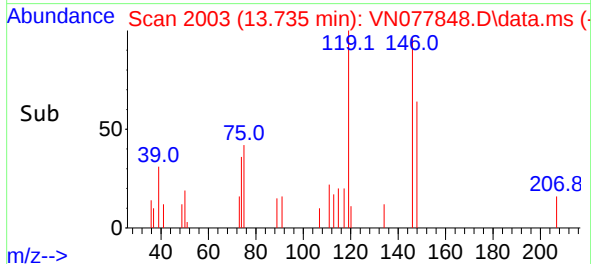
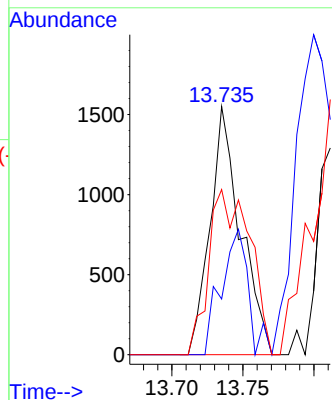
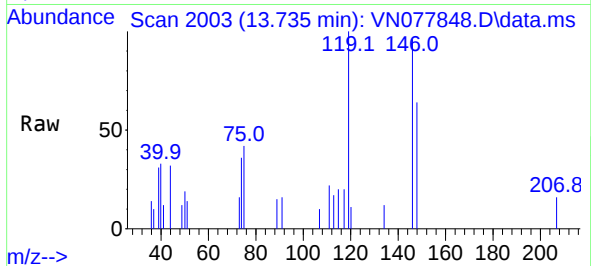




#88
1,4-Dichlorobenzene
Concen: 0.327 ug/l
RT: 13.735 min Scan# 2017
Delta R.T. -0.082 min
Lab File: VN077848.D
Acq: 24 May 2023 12:01

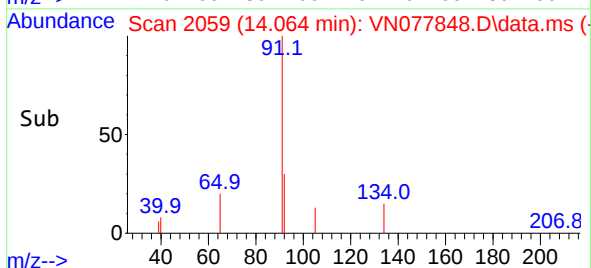
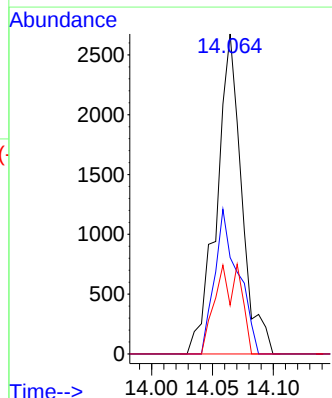
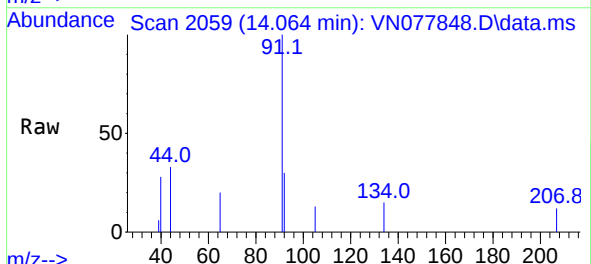
Instrument :
MSVOA_N
ClientSampleId :
VN0524MBL01

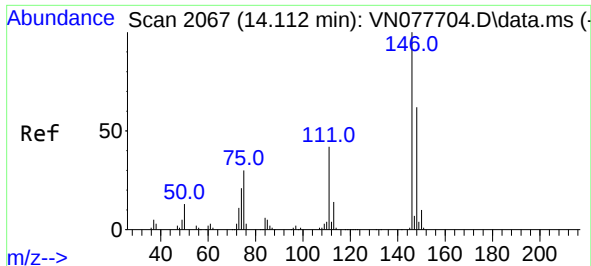
Tgt Ion:	146	Resp:	2317
Ion	Ratio	Lower	Upper
146	100		
111	44.9	20.6	61.8
148	89.9	31.6	94.8



#89
n-Butylbenzene
Concen: 0.297 ug/l
RT: 14.064 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VN077848.D
Acq: 24 May 2023 12:01

Tgt Ion:	91	Resp:	3837
Ion	Ratio	Lower	Upper
91	100		
92	42.2	26.4	79.0
134	28.1	12.6	37.6





#91

1,2-Dichlorobenzene

Concen: 0.358 ug/l

RT: 14.111 min Scan# 2067

Delta R.T. 0.000 min

Lab File: VN077848.D

Acq: 24 May 2023 12:01

Instrument :

MSVOA_N

ClientSampleId :

VN0524MBL01

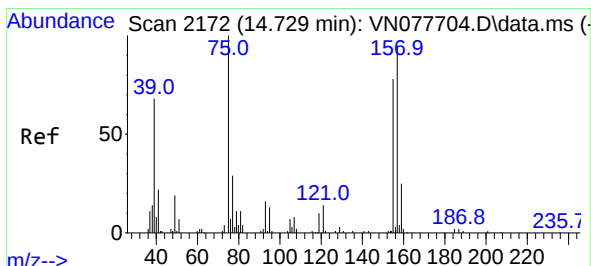
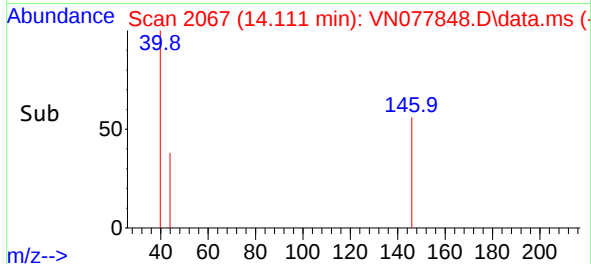
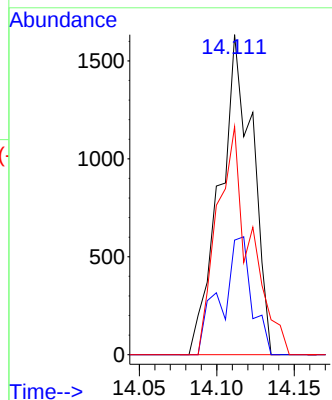
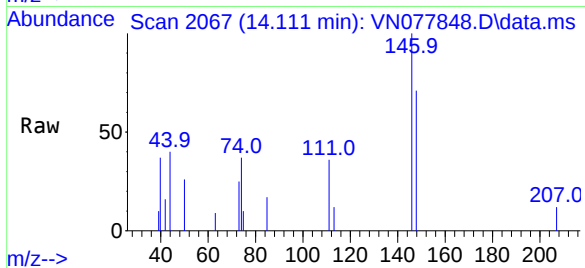
Tgt Ion:146 Resp: 2388

Ion Ratio Lower Upper

146 100

111 34.6 22.0 66.0

148 72.4 31.8 95.3



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.286 ug/l

RT: 14.711 min Scan# 2169

Delta R.T. -0.012 min

Lab File: VN077848.D

Acq: 24 May 2023 12:01

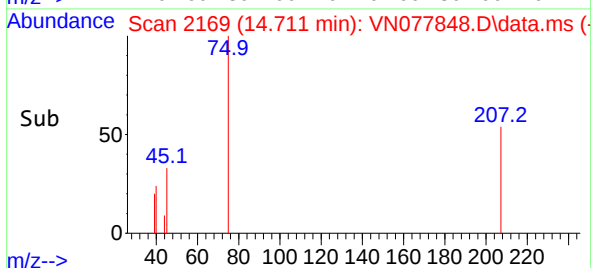
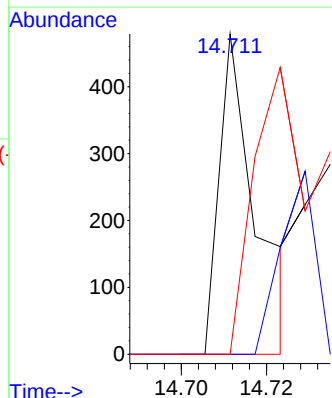
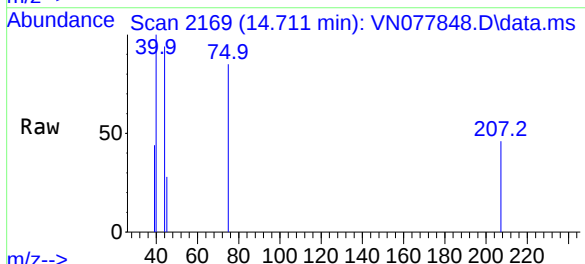
Tgt Ion: 75 Resp: 288

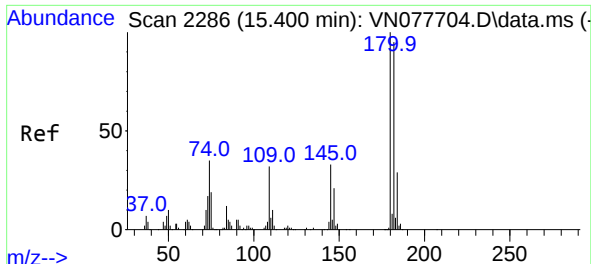
Ion Ratio Lower Upper

75 100

155 85.8 39.1 117.2

157 174.0 50.3 150.9#

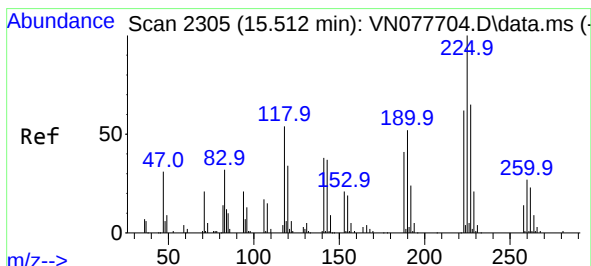
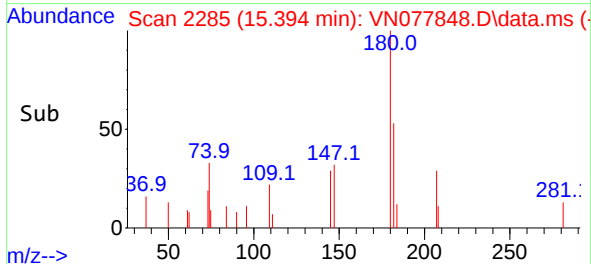
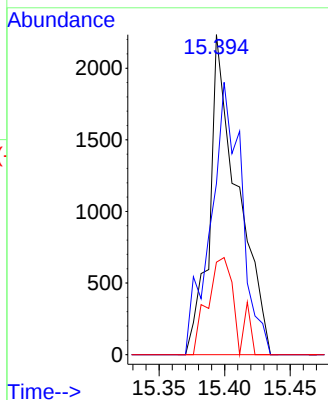
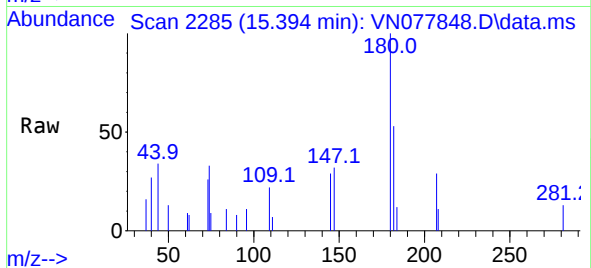




#93
1,2,4-Trichlorobenzene
Concen: 0.856 ug/l
RT: 15.394 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN077848.D
Acq: 24 May 2023 12:01

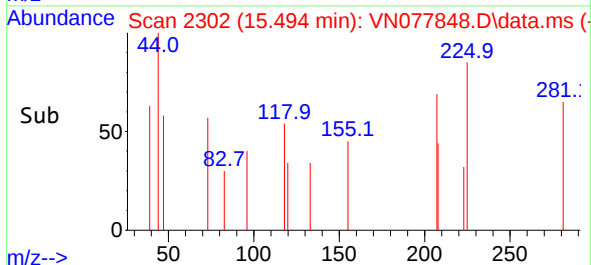
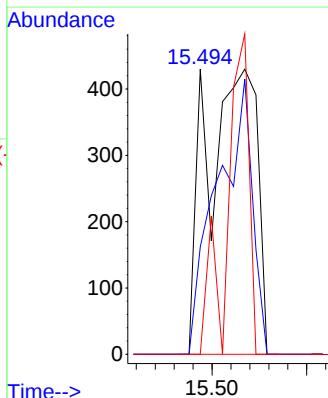
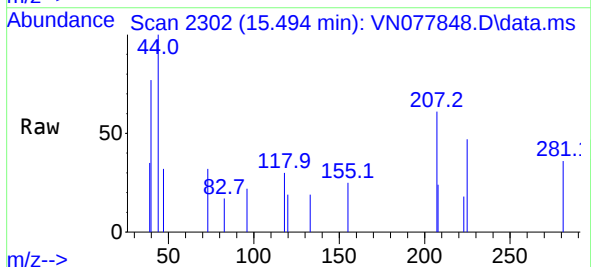
Instrument :
MSVOA_N
ClientSampleId :
VN0524MBL01

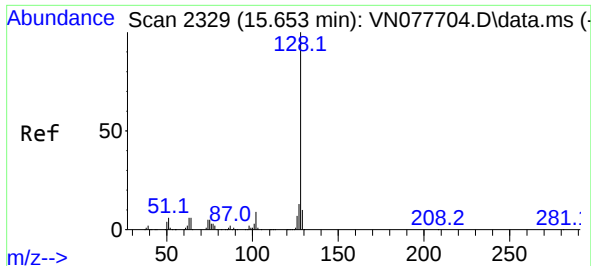
Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.3	46.1	138.2
145	30.4	16.6	49.8



#94
Hexachlorobutadiene
Concen: 0.481 ug/l
RT: 15.494 min Scan# 2302
Delta R.T. -0.012 min
Lab File: VN077848.D
Acq: 24 May 2023 12:01

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	31.3	93.8#
227	0.0	31.9	95.9#



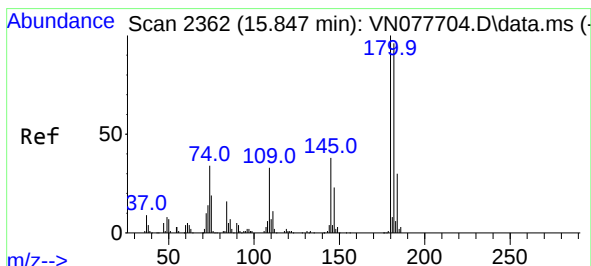
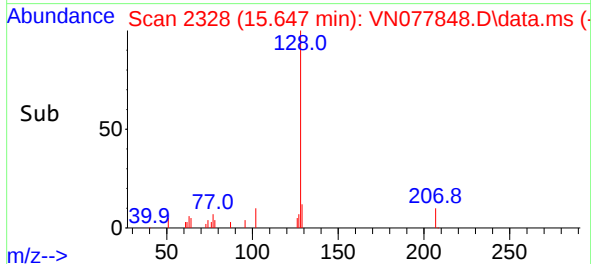
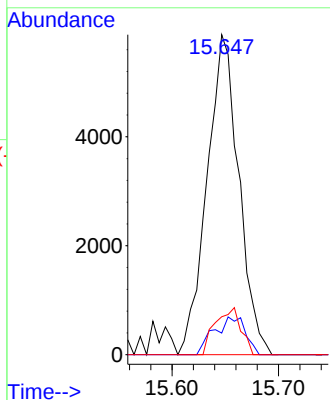
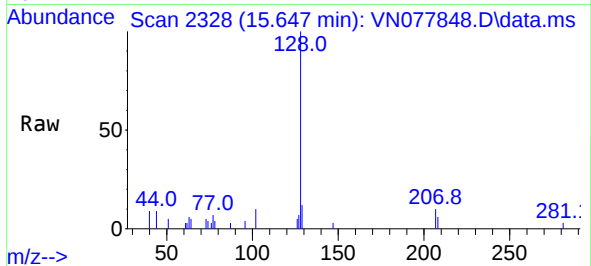


#95
Naphthalene
Concen: 0.909 ug/l
RT: 15.647 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN077848.D
Acq: 24 May 2023 12:01

Instrument :
MSVOA_N
ClientSampleId :
VN0524MBL01

Tgt Ion:128 Resp: 12187

Ion	Ratio	Lower	Upper
128	100		
127	11.6	10.0	15.0
129	11.9	8.7	13.1



#96
1,2,3-Trichlorobenzene
Concen: 1.052 ug/l
RT: 15.847 min Scan# 2362
Delta R.T. -0.000 min
Lab File: VN077848.D
Acq: 24 May 2023 12:01

Tgt Ion:180 Resp: 4014

Ion	Ratio	Lower	Upper
180	100		
182	98.6	46.2	138.6
145	36.5	17.5	52.6

