

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062223\
 Data File : VN078352.D
 Acq On : 22 Jun 2023 16:04
 Operator : JC\MD
 Sample : 03378-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-01-062123

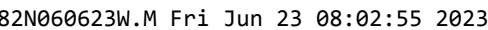
Quant Time: Jun 23 08:02:50 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 07 05:05:00 2023
 Response via : Initial Calibration

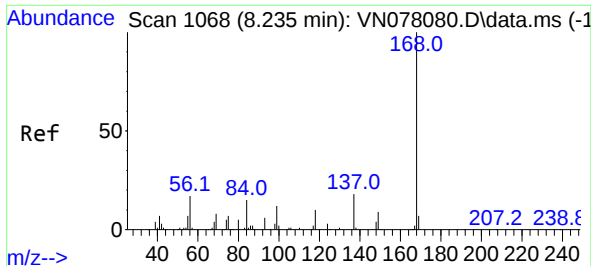
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.236	168	476670	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	864484	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	754997	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	231909	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	320095	50.365	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.740%			
35) Dibromofluoromethane	8.177	113	303598	55.543	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 111.080%			
50) Toluene-d8	10.571	98	979196	46.469	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 92.940%			
62) 4-Bromofluorobenzene	12.853	95	311417	47.539	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 95.080%			
Target Compounds					Qvalue	
3) Chloromethane	2.371	50	927	Below Cal	#	83
5) Bromomethane	2.977	94	2505	0.470	ug/l	89
10) Methyl Iodide	4.600	142	1529	0.214	ug/l #	71
11) Tert butyl alcohol	5.506	59	1612	1.837	ug/l #	72
13) Acrolein	4.200	56	662	0.684	ug/l #	70
15) Acrylonitrile	5.736	53	462	0.204	ug/l #	39
16) Acetone	4.448	43	2988	1.633	ug/l #	40
17) Carbon Disulfide	4.730	76	4866	0.363	ug/l #	75
18) Methyl Acetate	5.048	43	2010	0.239	ug/l #	70
20) Methylene Chloride	5.289	84	10562	1.747	ug/l	94
25) 2-Butanone	7.512	43	590	0.210	ug/l #	37
31) Cyclohexane	8.230	56	11409	1.399	ug/l #	50
36) 1,1-Dichloropropene	8.230	75	39956	5.096	ug/l #	47
38) Carbon Tetrachloride	8.230	117	52082	6.291	ug/l #	18
43) Isopropyl Acetate	8.706	43	2642	0.226	ug/l #	49
51) 4-Methyl-2-Pentanone	10.453	43	1277	0.207	ug/l	99
59) 2-Hexanone	11.212	43	2540	0.591	ug/l #	49
75) 1,1,2,2-Tetrachloroethane	12.947	83	724	Below Cal	#	79
76) 1,2,3-Trichloropropane	12.853	75	165764	30.236	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	165764	92.893	ug/l #	15
89) n-Butylbenzene	14.059	91	3902	0.302	ug/l	93
91) 1,2-Dichlorobenzene	14.106	146	1894	0.225	ug/l	90
93) 1,2,4-Trichlorobenzene	15.400	180	1598	0.533	ug/l	93
94) Hexachlorobutadiene	15.506	225	1046	Below Cal	#	76
95) Naphthalene	15.659	128	6147	0.609	ug/l #	88
96) 1,2,3-Trichlorobenzene	15.835	180	2123	0.633	ug/l	86

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

Quant Time: Jun 23 08:02:50 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
Quant Title : SW846 8260
QLast Update : Wed Jun 07 05:05:00 2023
Response via : Initial Calibration

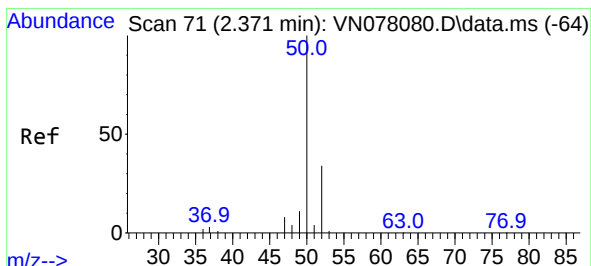
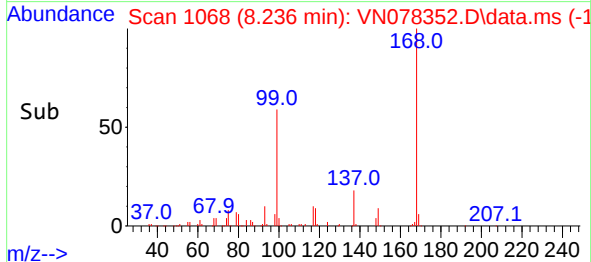
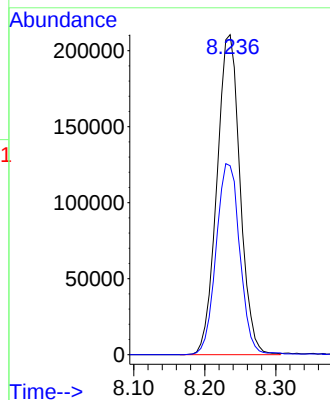
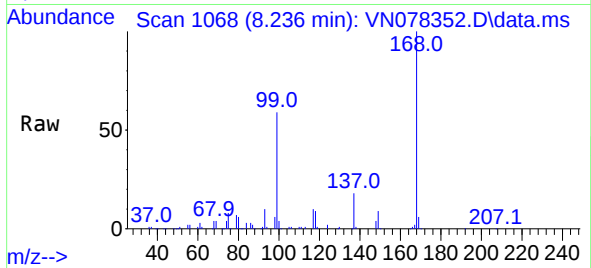




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. 0.001 min
Lab File: VN078352.D
Acq: 22 Jun 2023 16:04

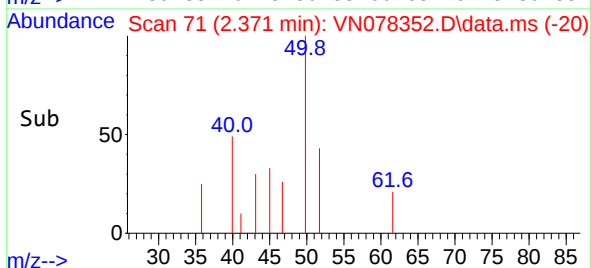
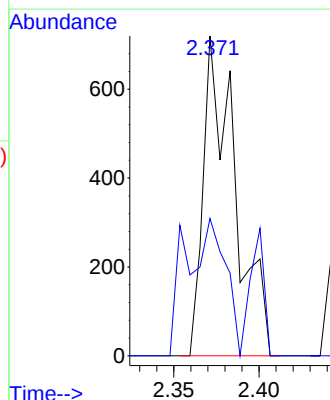
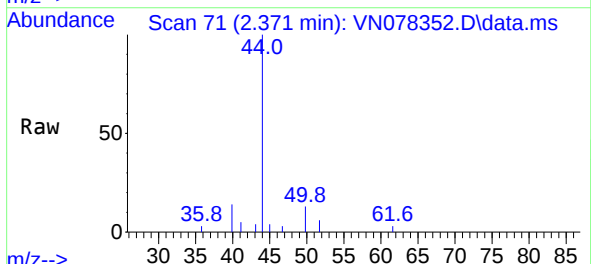
Instrument :
MSVOA_N
ClientSampleId :
TB-01-062123

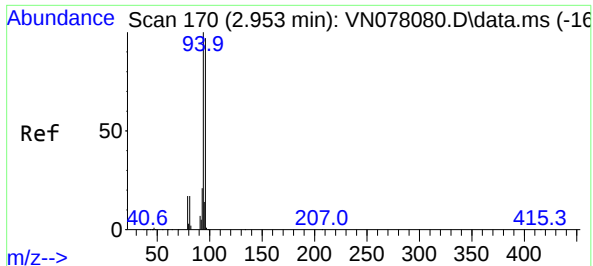
Tgt Ion:168 Resp: 476670
Ion Ratio Lower Upper
168 100
99 59.1 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.371 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN078352.D
Acq: 22 Jun 2023 16:04

Tgt Ion: 50 Resp: 927
Ion Ratio Lower Upper
50 100
52 42.9 26.5 39.7#

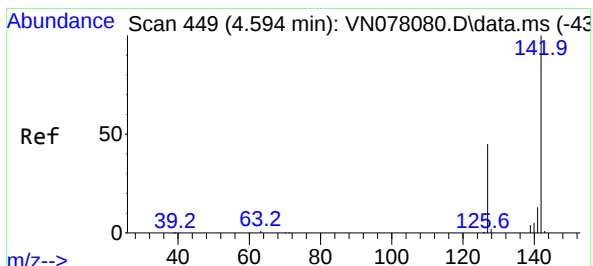
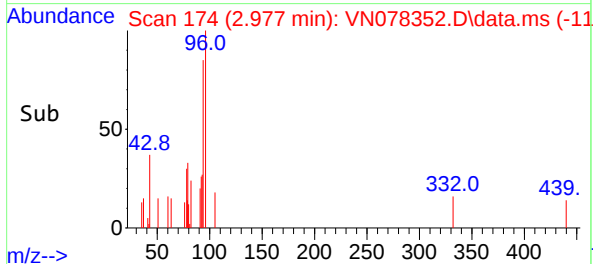
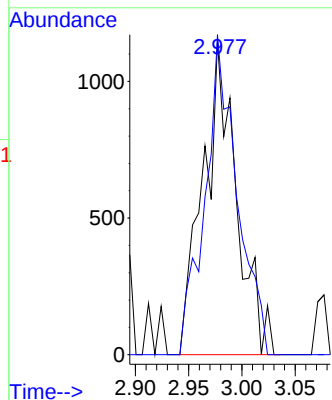
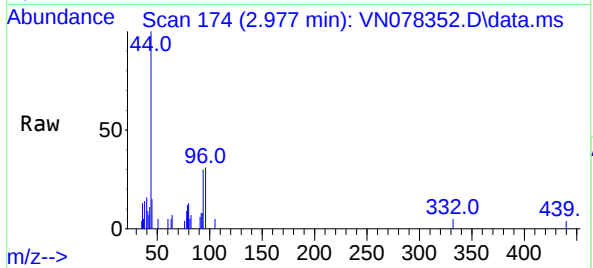




#5
Bromomethane
Concen: 0.470 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.024 min
Lab File: VN078352.D
Acq: 22 Jun 2023 16:04

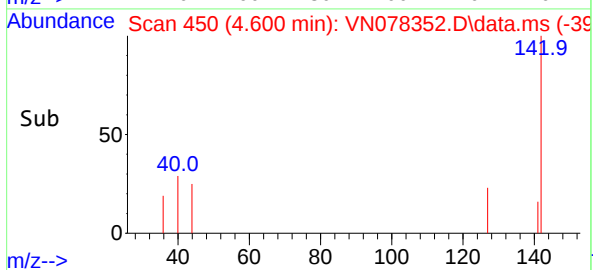
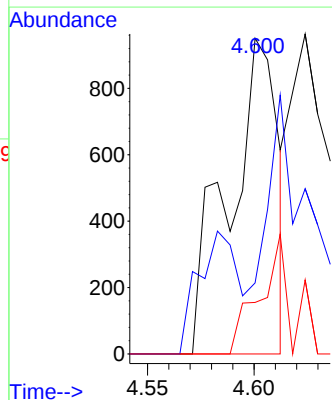
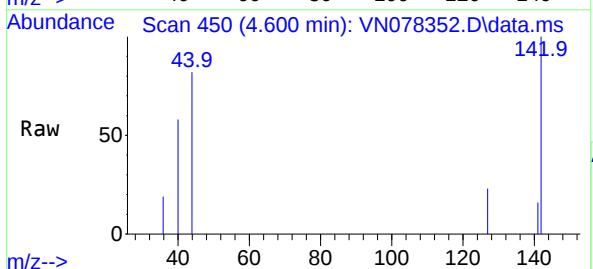
Instrument :
MSVOA_N
ClientSampleId :
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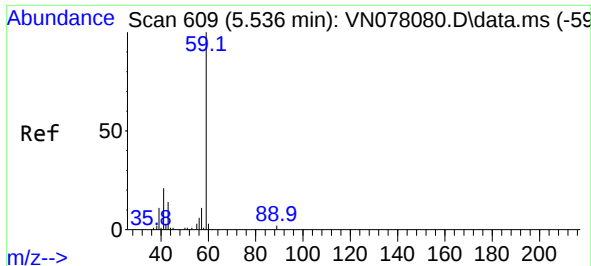
Tgt Ion: 94 Resp: 2505
Ion Ratio Lower Upper
94 100
96 102.1 73.1 109.7



#10
Methyl Iodide
Concen: 0.214 ug/l
RT: 4.600 min Scan# 450
Delta R.T. 0.006 min
Lab File: VN078352.D
Acq: 22 Jun 2023 16:04

Tgt Ion: 142 Resp: 1529
Ion Ratio Lower Upper
142 100
127 22.5 37.6 56.4#
141 16.3 11.4 17.0

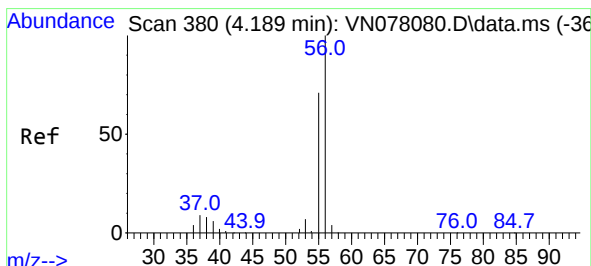
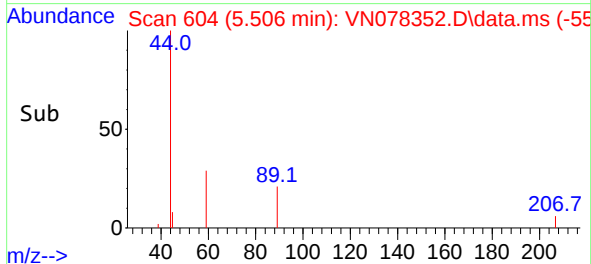
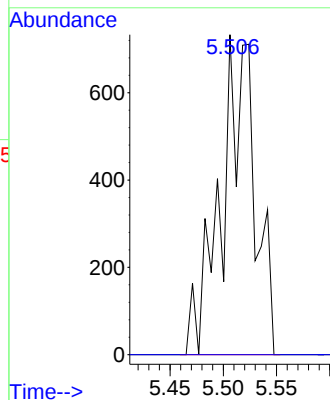
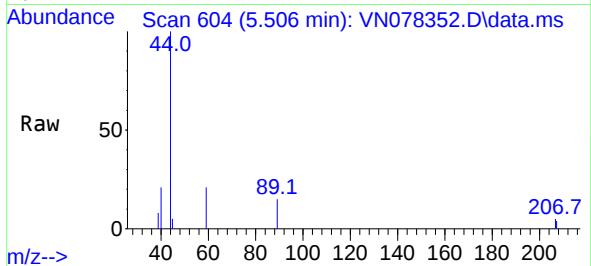




#11
Tert butyl alcohol
Concen: 1.837 ug/l
RT: 5.506 min Scan# 609
Delta R.T. -0.029 min
Lab File: VN078352.D
Acq: 22 Jun 2023 16:04

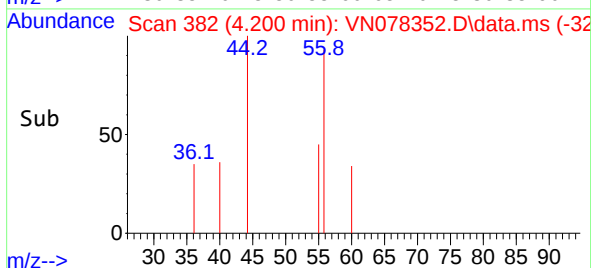
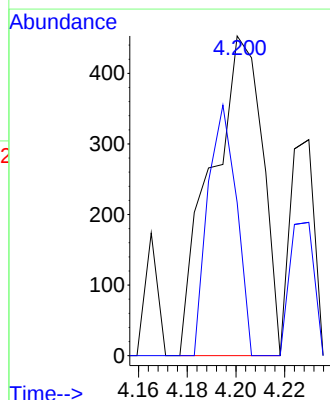
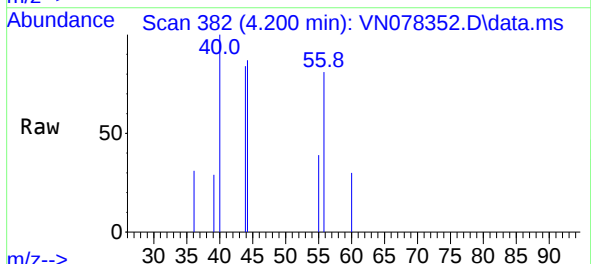
Instrument :
MSVOA_N
ClientSampleId :
TB-01-062123

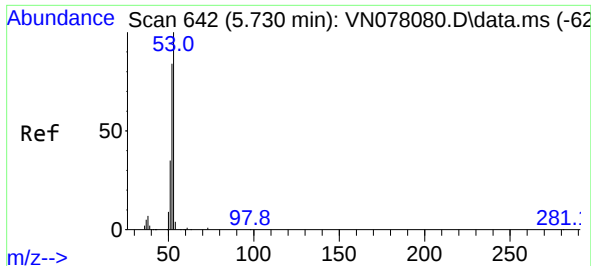
Tgt Ion: 59 Resp: 1612
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 0.684 ug/l
RT: 4.200 min Scan# 382
Delta R.T. 0.012 min
Lab File: VN078352.D
Acq: 22 Jun 2023 16:04

Tgt Ion: 56 Resp: 662
Ion Ratio Lower Upper
56 100
55 43.7 54.5 81.7#

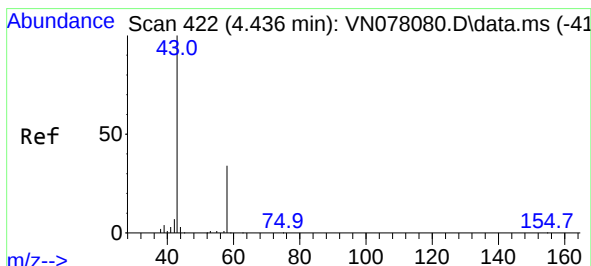
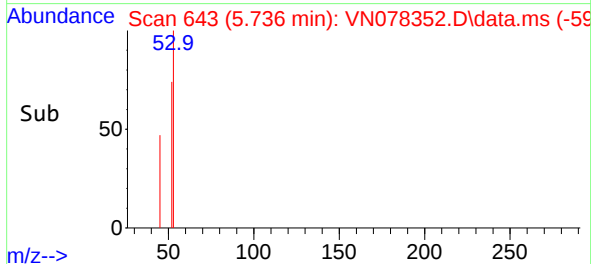
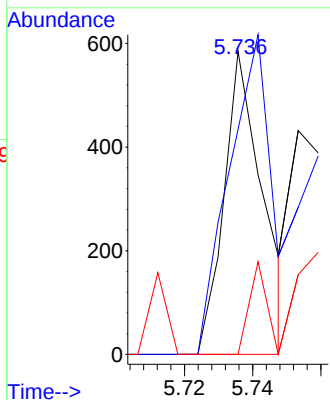
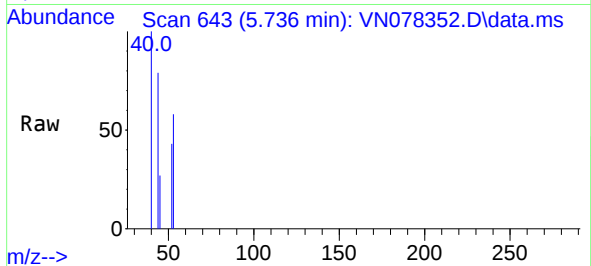




#15
Acrylonitrile
Concen: 0.204 ug/l
RT: 5.736 min Scan# 64
Delta R.T. 0.006 min
Lab File: VN078352.D
Acq: 22 Jun 2023 16:04

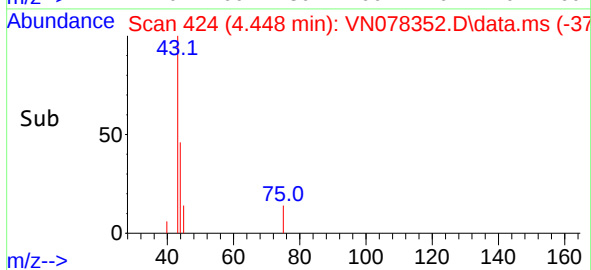
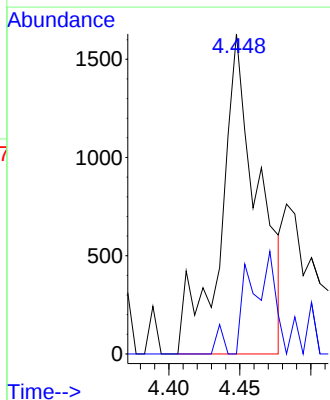
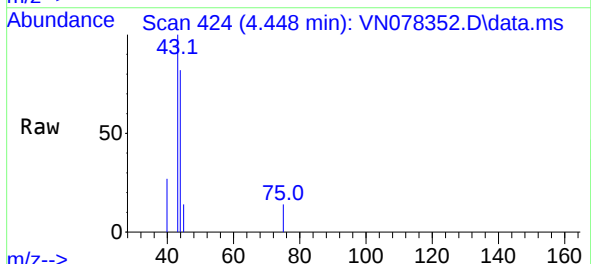
Instrument :
MSVOA_N
ClientSampleId :
TB-01-062123

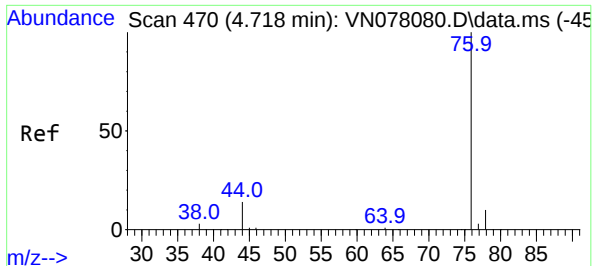
Tgt Ion: 53 Resp: 462
Ion Ratio Lower Upper
53 100
52 135.9 65.3 97.9#
51 0.0 28.9 43.3#



#16
Acetone
Concen: 1.633 ug/l
RT: 4.448 min Scan# 424
Delta R.T. 0.012 min
Lab File: VN078352.D
Acq: 22 Jun 2023 16:04

Tgt Ion: 43 Resp: 2988
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#

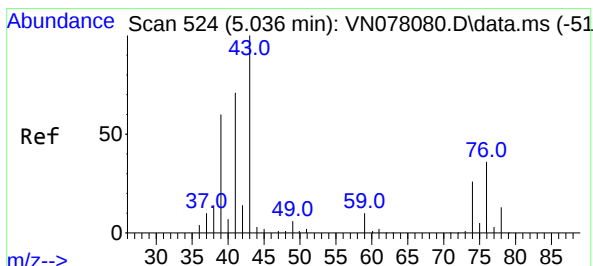
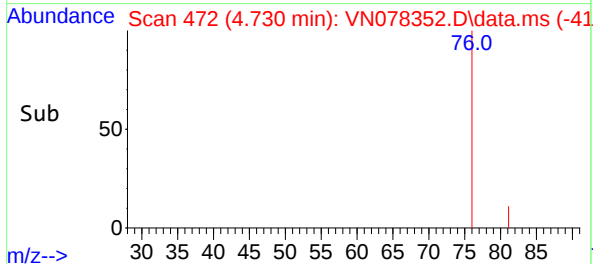
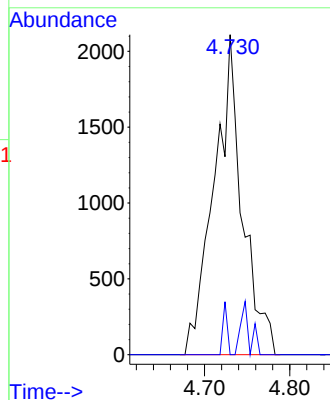
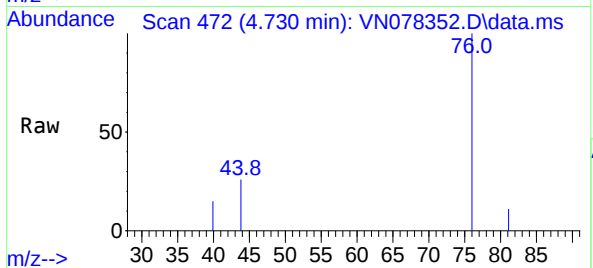




#17
Carbon Disulfide
Concen: 0.363 ug/l
RT: 4.730 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN078352.D
Acq: 22 Jun 2023 16:04

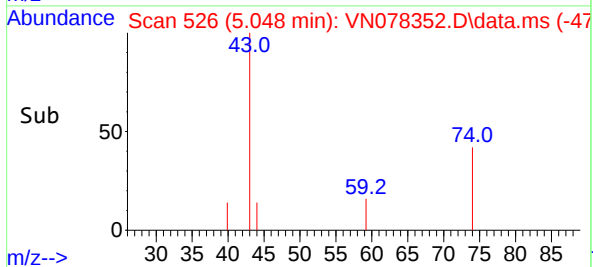
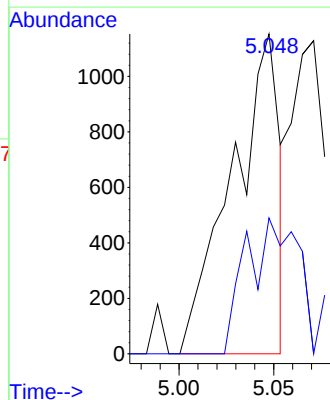
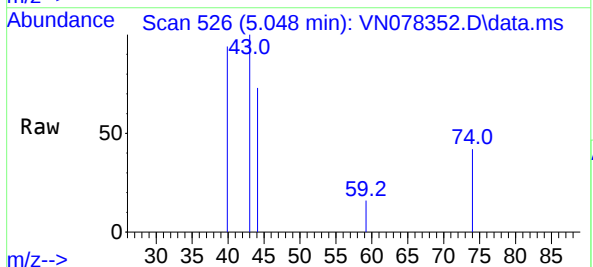
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ClientSampleId :
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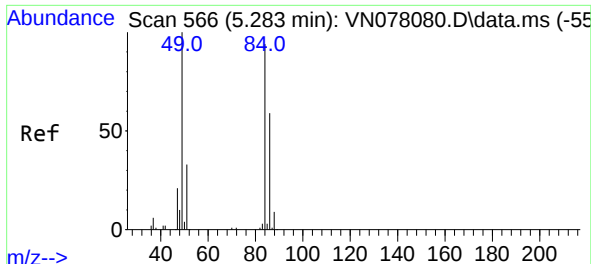
Tgt Ion: 76 Resp: 4866
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#18
Methyl Acetate
Concen: 0.239 ug/l
RT: 5.048 min Scan# 526
Delta R.T. 0.012 min
Lab File: VN078352.D
Acq: 22 Jun 2023 16:04

Tgt Ion: 43 Resp: 2010
Ion Ratio Lower Upper
43 100
74 49.6 26.2 39.4#



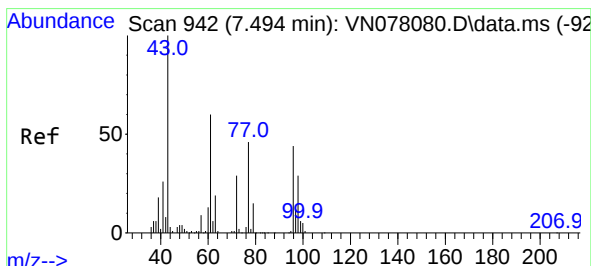
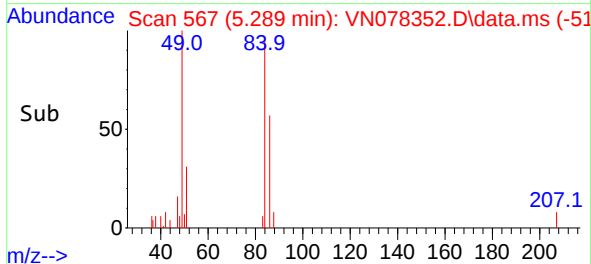
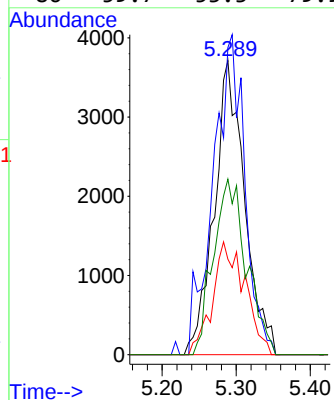
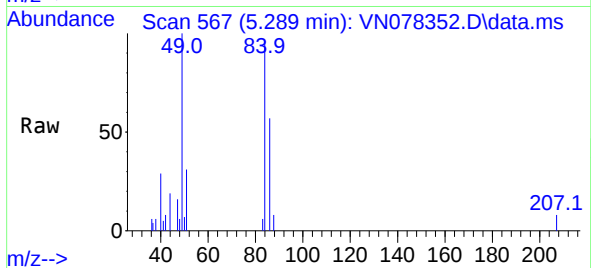


#20
Methylene Chloride
Concen: 1.747 ug/l
RT: 5.289 min Scan# 510
Delta R.T. 0.006 min
Lab File: VN078352.D
Acq: 22 Jun 2023 16:04

Instrument :
MSVOA_N
ClientSampleId :
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Tgt Ion: 84 Resp: 10562

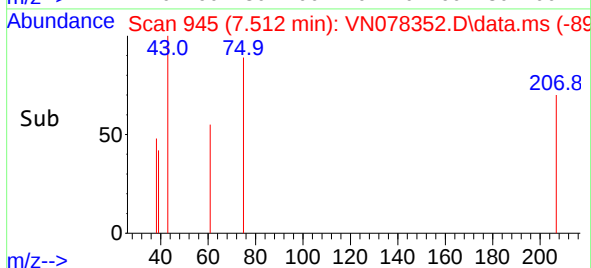
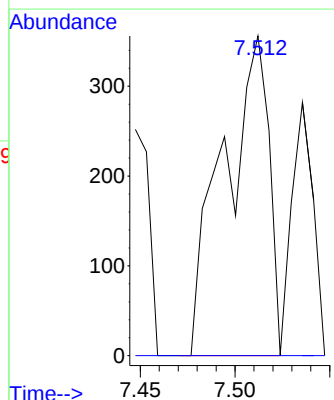
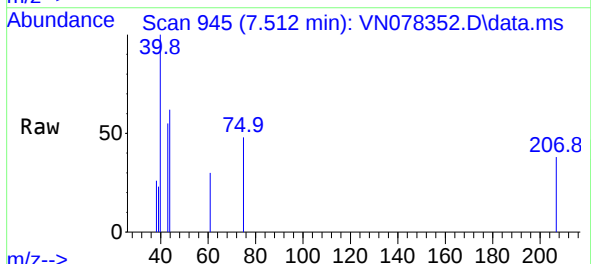
Ion	Ratio	Lower	Upper
84	100		
49	104.4	79.7	119.5
51	32.5	25.2	37.8
86	59.7	53.3	79.9

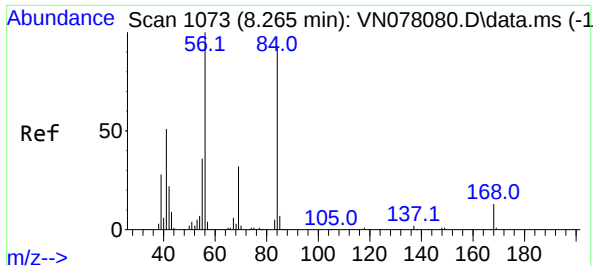


#25
2-Butanone
Concen: 0.210 ug/l
RT: 7.512 min Scan# 945
Delta R.T. 0.018 min
Lab File: VN078352.D
Acq: 22 Jun 2023 16:04

Tgt Ion: 43 Resp: 590

Ion	Ratio	Lower	Upper
43	100		
72	0.0	30.2	45.2#

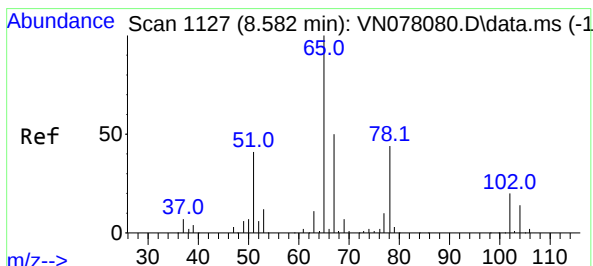
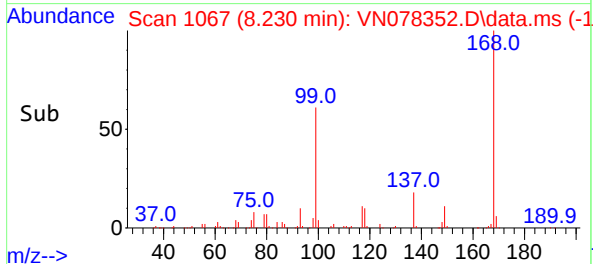
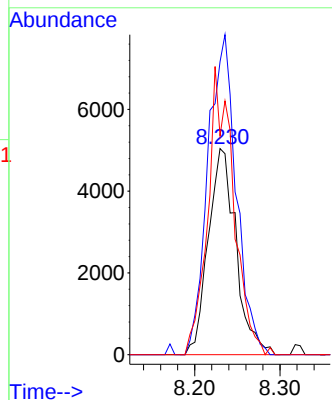
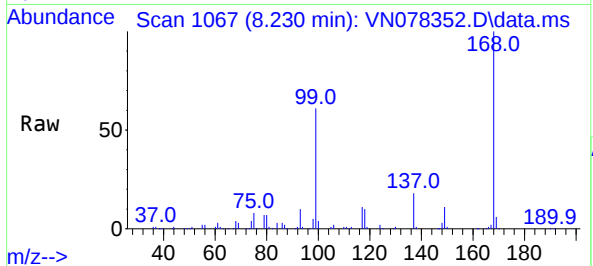




#31
Cyclohexane
Concen: 1.399 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078352.D
Acq: 22 Jun 2023 16:04

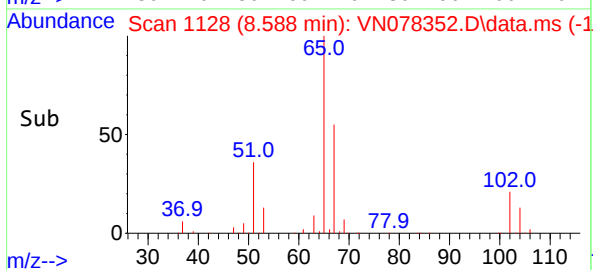
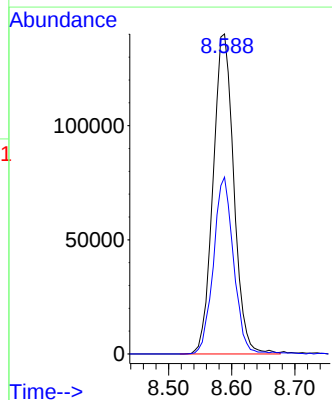
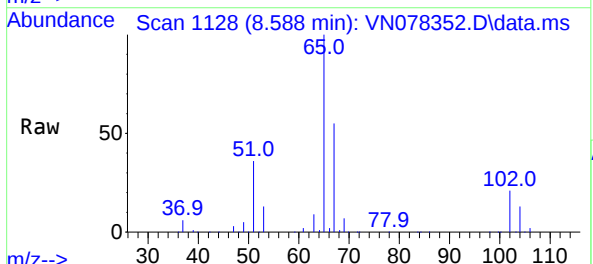
Instrument :
MSVOA_N
ClientSampleId :
TB-01-062123

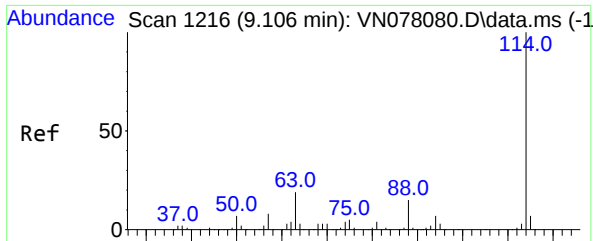
Tgt Ion: 56 Resp: 11409
Ion Ratio Lower Upper
56 100
69 142.1 26.8 40.2#
84 106.2 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 50.365 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN078352.D
Acq: 22 Jun 2023 16:04

Tgt Ion: 65 Resp: 320095
Ion Ratio Lower Upper
65 100
67 53.3 0.0 106.6



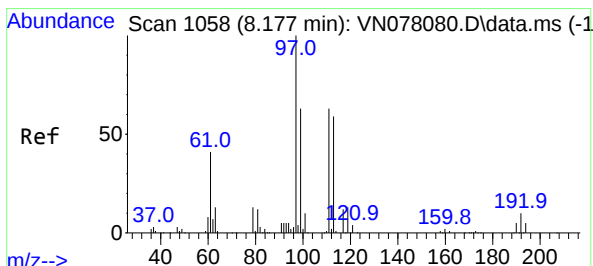
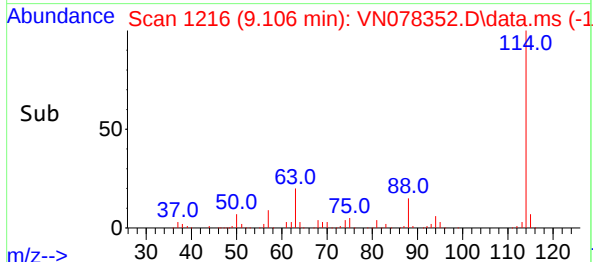
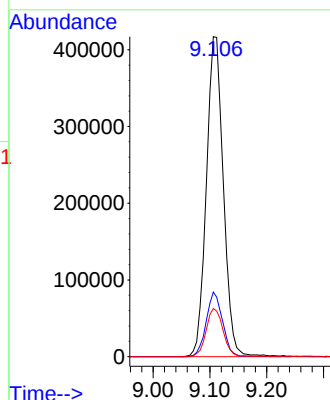
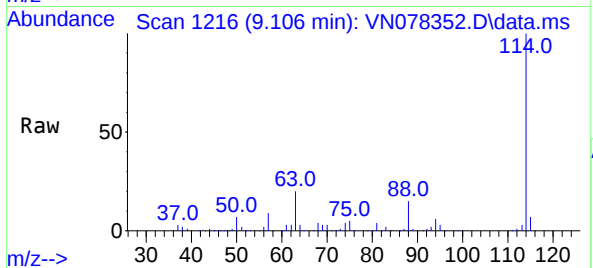


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 114
Delta R.T. 0.000 min
Lab File: VN078352.D
Acq: 22 Jun 2023 16:04

Instrument :
MSVOA_N
ClientSampleId :
TB-01-062123

Tgt Ion:114 Resp: 864484

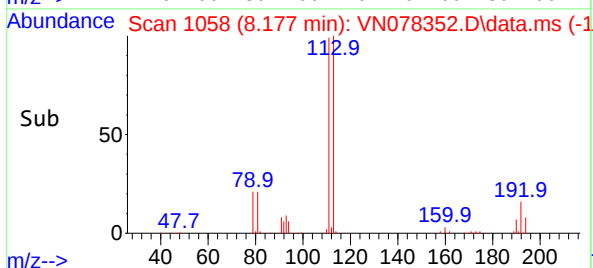
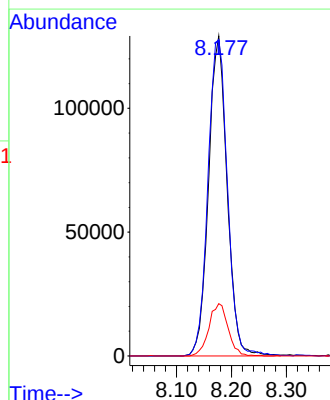
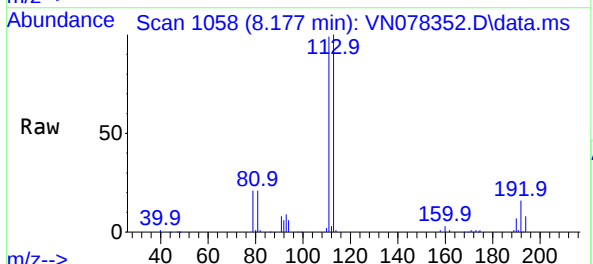
Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	36.4
88	15.0	0.0	30.6

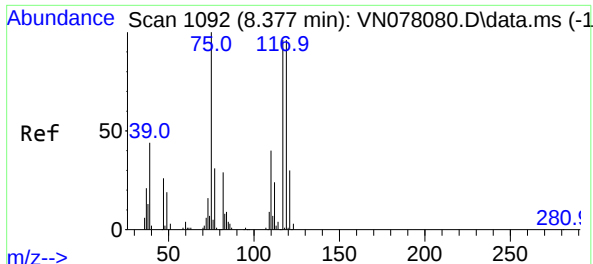


#35
Dibromofluoromethane
Concen: 55.543 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VN078352.D
Acq: 22 Jun 2023 16:04

Tgt Ion:113 Resp: 303598

Ion	Ratio	Lower	Upper
113	100		
111	103.8	82.6	123.8
192	16.9	12.7	19.1

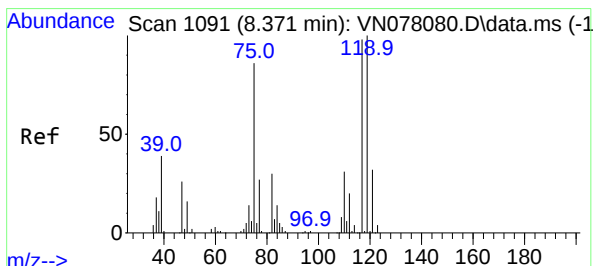
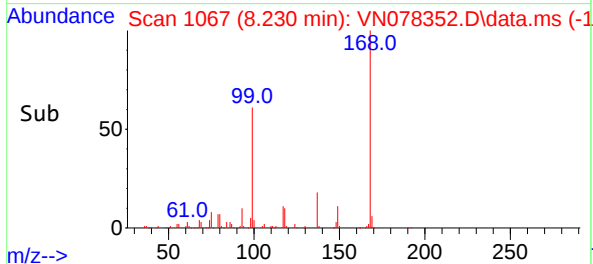
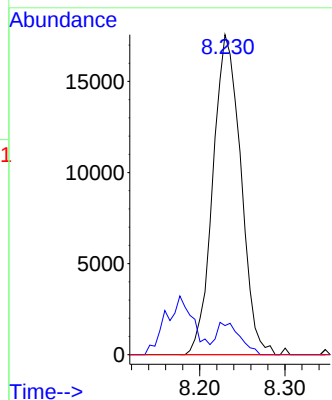
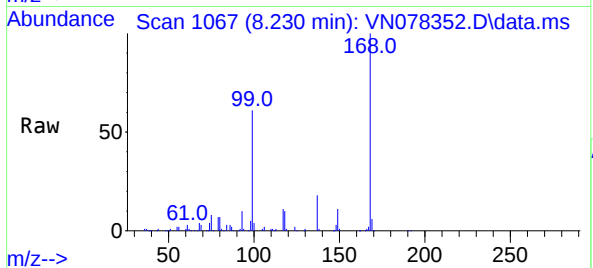




#36
1,1-Dichloropropene
Concen: 5.096 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN078352.D
Acq: 22 Jun 2023 16:04

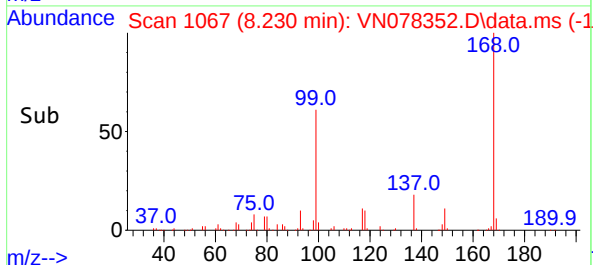
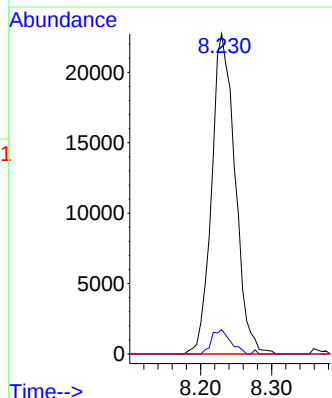
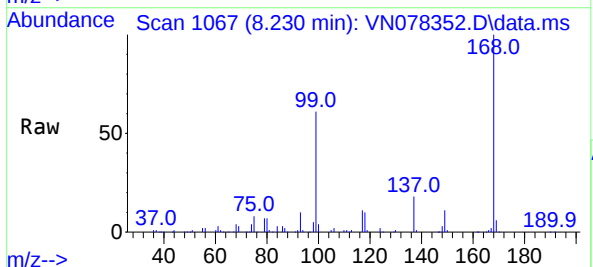
Instrument :
MSVOA_N
ClientSampleId :
TB-01-062123

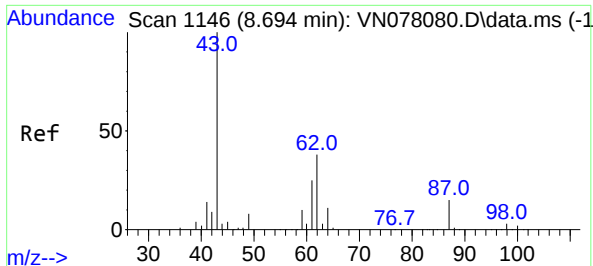
Tgt Ion: 75 Resp: 39956
Ion Ratio Lower Upper
75 100
110 8.5 19.1 57.3#
77 0.0 25.0 37.4#



#38
Carbon Tetrachloride
Concen: 6.291 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN078352.D
Acq: 22 Jun 2023 16:04

Tgt Ion: 117 Resp: 52082
Ion Ratio Lower Upper
117 100
119 7.6 77.3 115.9#
121 0.0 23.3 34.9#

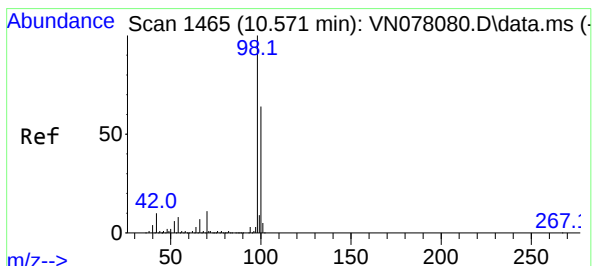
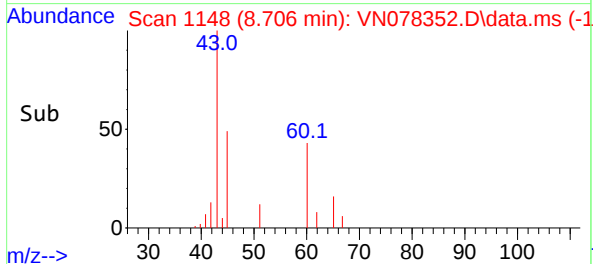
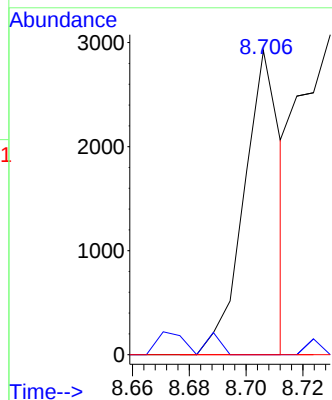
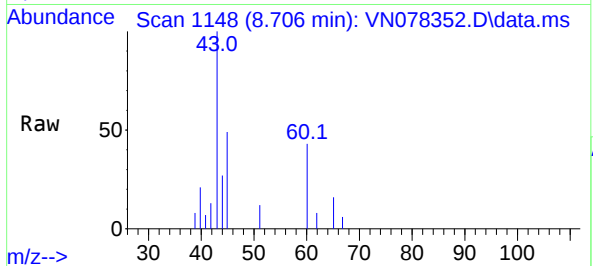




#43
Isopropyl Acetate
Concen: 0.226 ug/l
RT: 8.706 min Scan# 1146
Delta R.T. 0.012 min
Lab File: VN078352.D
Acq: 22 Jun 2023 16:04

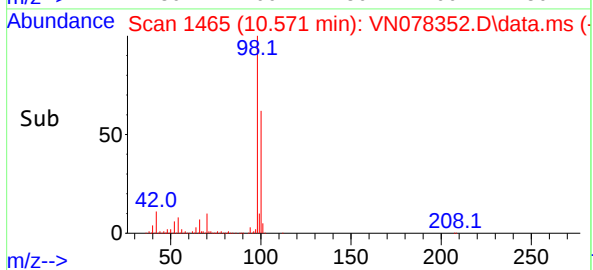
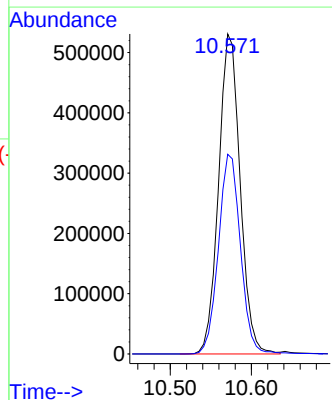
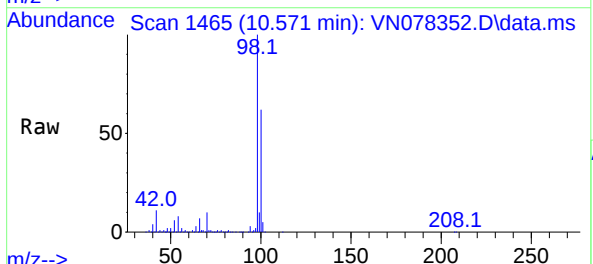
Instrument :
MSVOA_N
ClientSampleId :
TB-01-062123

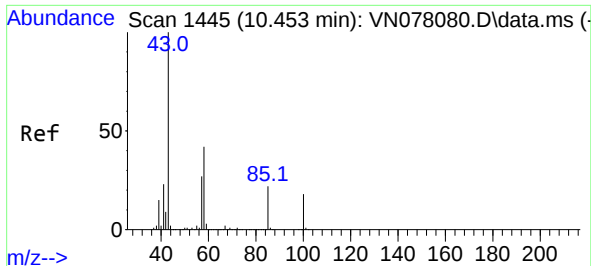
Tgt Ion: 43 Resp: 2642
Ion Ratio Lower Upper
43 100
61 0.0 24.7 37.1#
87 0.0 14.6 21.8#



#50
Toluene-d8
Concen: 46.469 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN078352.D
Acq: 22 Jun 2023 16:04

Tgt Ion: 98 Resp: 979196
Ion Ratio Lower Upper
98 100
100 63.9 52.0 78.0

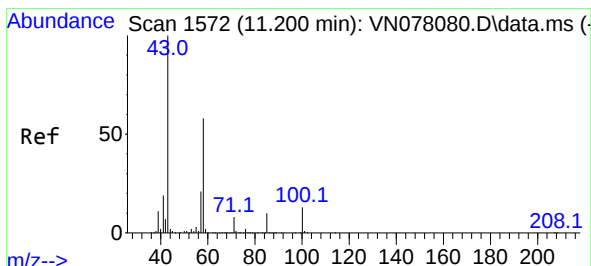
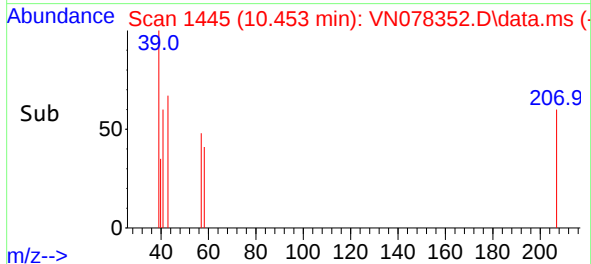
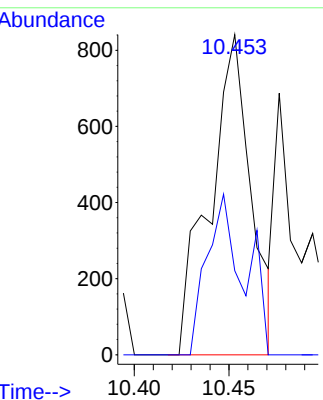
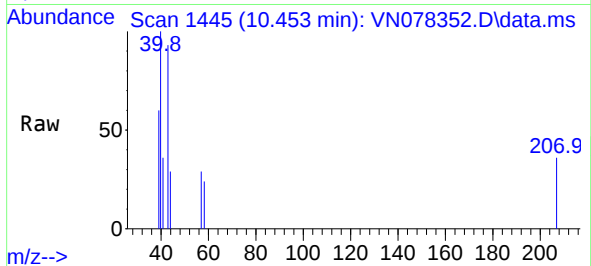




#51
4-Methyl-2-Pentanone
Concen: 0.207 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.000 min
Lab File: VN078352.D
Acq: 22 Jun 2023 16:04

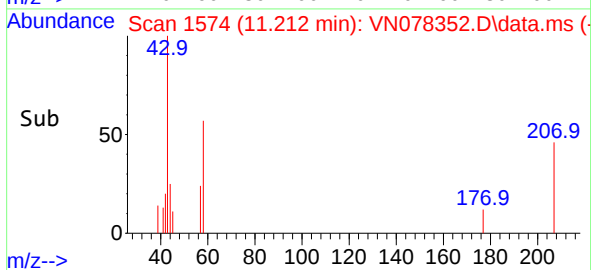
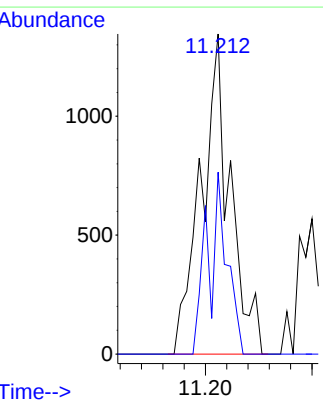
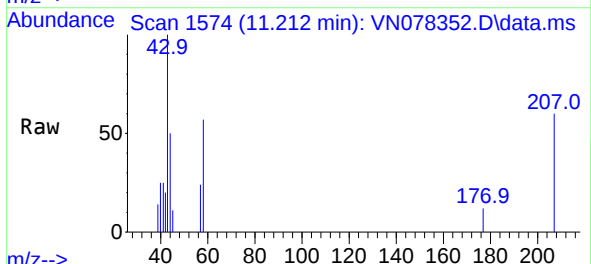
Instrument :
MSVOA_N
ClientSampleId :
TB-01-062123

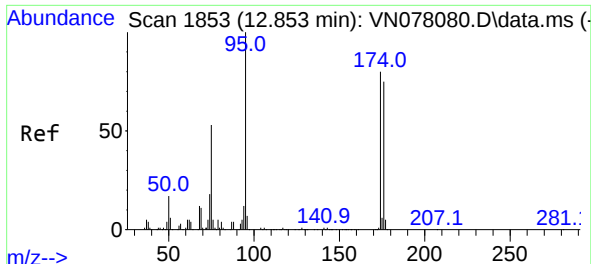
Tgt Ion: 43 Resp: 1277
Ion Ratio Lower Upper
43 100
58 45.3 36.6 54.8



#59
2-Hexanone
Concen: 0.591 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.012 min
Lab File: VN078352.D
Acq: 22 Jun 2023 16:04

Tgt Ion: 43 Resp: 2540
Ion Ratio Lower Upper
43 100
58 23.4 31.7 95.1#

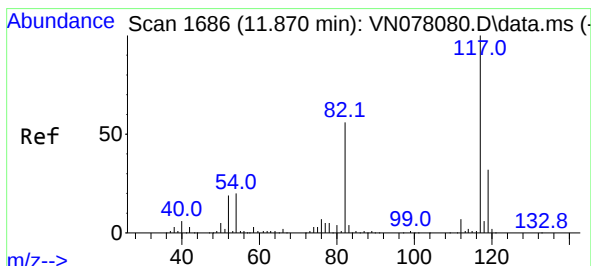
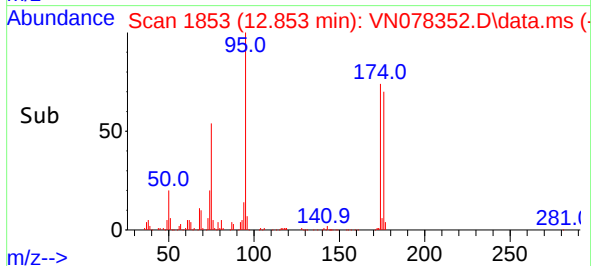
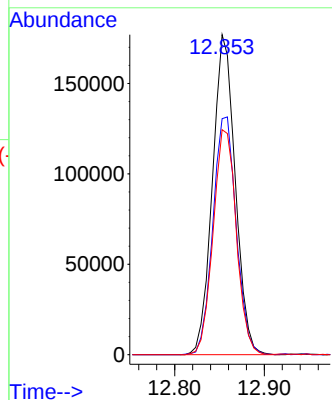
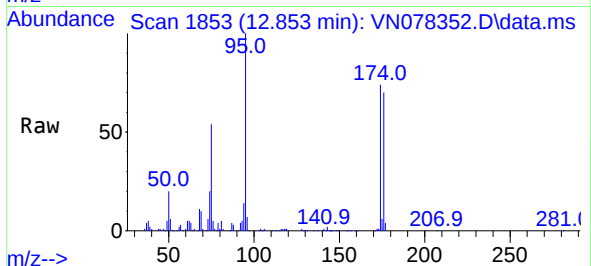




#62
4-Bromofluorobenzene
Concen: 47.539 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078352.D
Acq: 22 Jun 2023 16:04

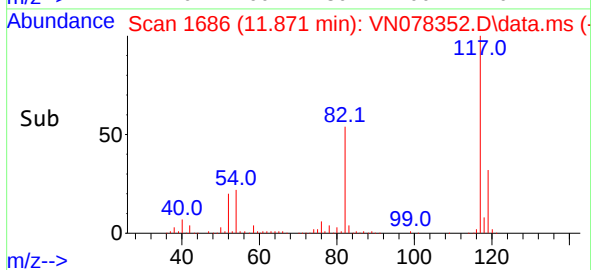
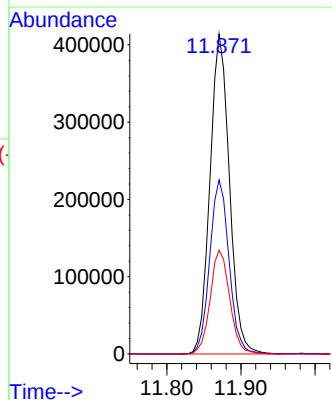
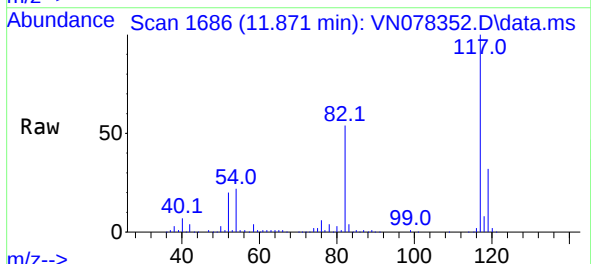
Instrument :
MSVOA_N
ClientSampleId :
TB-01-062123

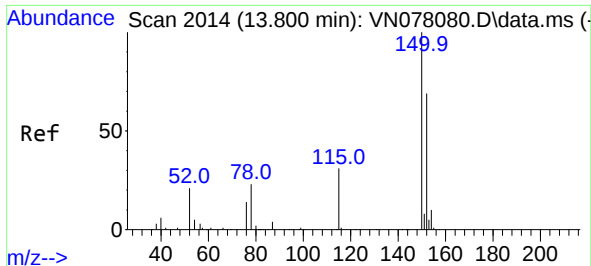
Tgt Ion: 95 Resp: 311417
Ion Ratio Lower Upper
95 100
174 76.3 0.0 143.8
176 71.7 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN078352.D
Acq: 22 Jun 2023 16:04

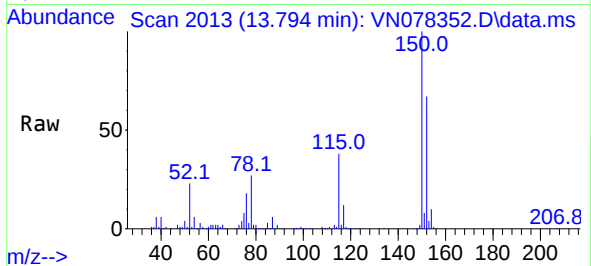
Tgt Ion: 117 Resp: 754997
Ion Ratio Lower Upper
117 100
82 54.3 44.0 66.0
119 32.4 25.6 38.4



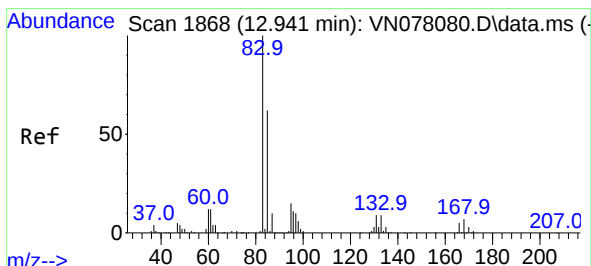
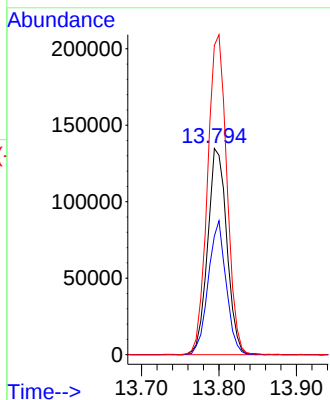
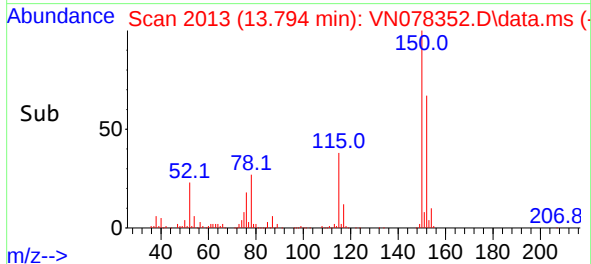


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2014
Delta R.T. -0.006 min
Lab File: VN078352.D
Acq: 22 Jun 2023 16:04

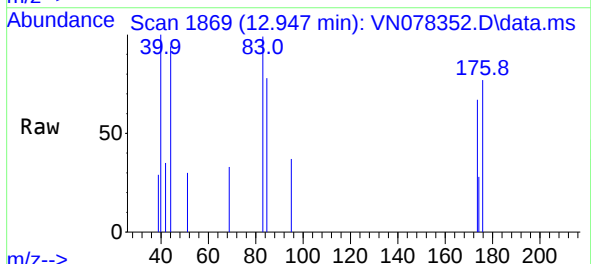
Instrument :
MSVOA_N
ClientSampleId :
TB-01-062123



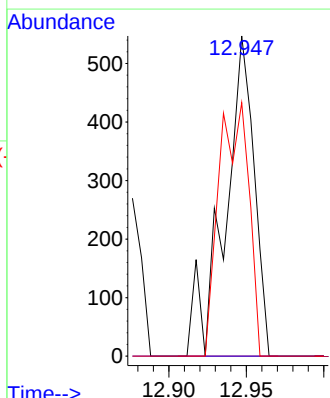
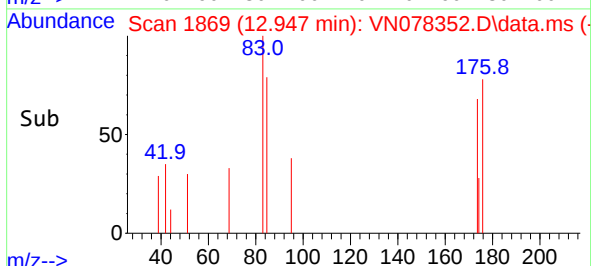
Tgt Ion:152 Resp: 231909
Ion Ratio Lower Upper
152 100
115 60.6 32.3 96.8
150 156.3 0.0 355.8

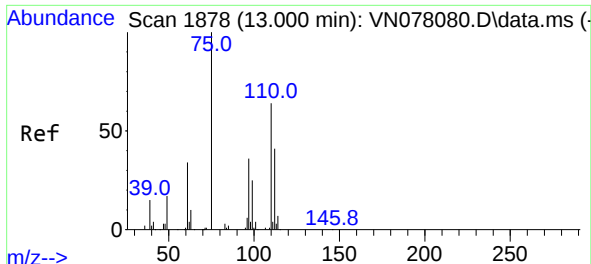


#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.947 min Scan# 1869
Delta R.T. 0.006 min
Lab File: VN078352.D
Acq: 22 Jun 2023 16:04



Tgt Ion: 83 Resp: 724
Ion Ratio Lower Upper
83 100
131 0.0 5.0 15.0#
85 79.7 31.9 95.7

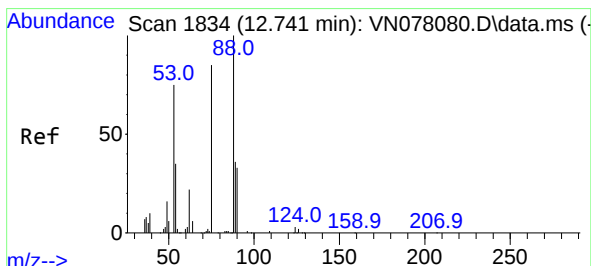
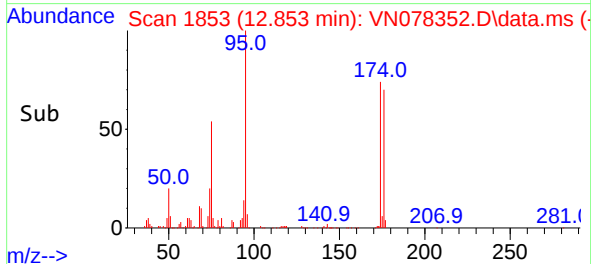
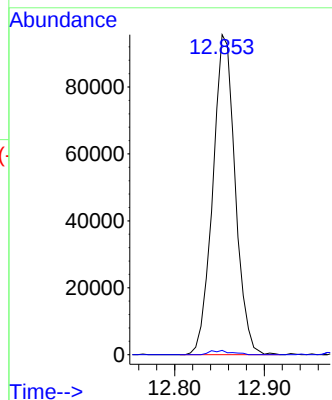
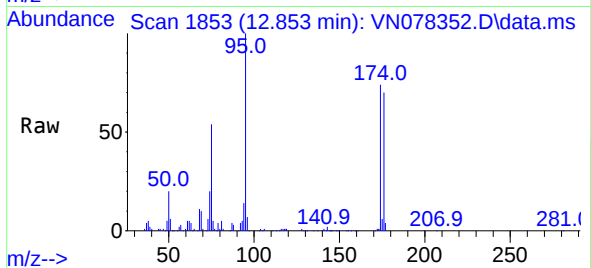




#76
1,2,3-Trichloropropane
Concen: 30.236 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078352.D
Acq: 22 Jun 2023 16:04

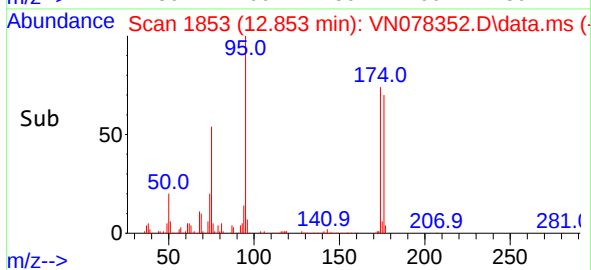
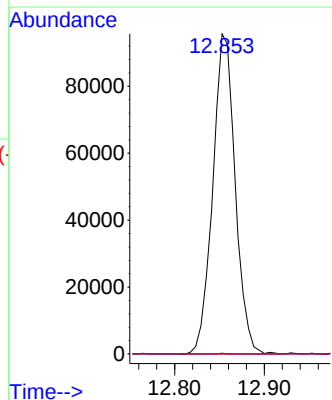
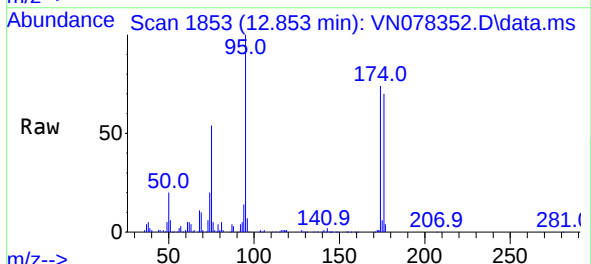
Instrument :
MSVOA_N
ClientSampleId :
TB-01-062123

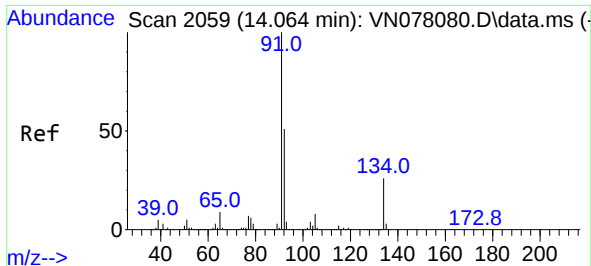
Tgt Ion: 75 Resp: 165764
Ion Ratio Lower Upper
75 100
77 1.3 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 92.893 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078352.D
Acq: 22 Jun 2023 16:04

Tgt Ion: 75 Resp: 165764
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#

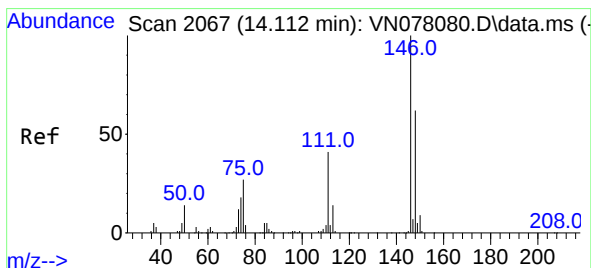
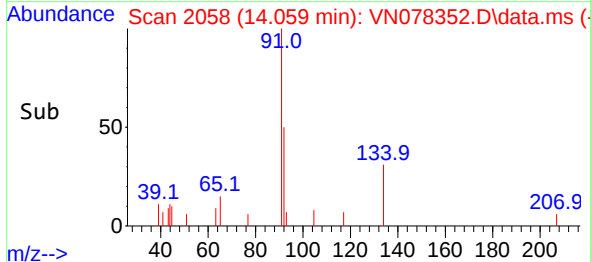
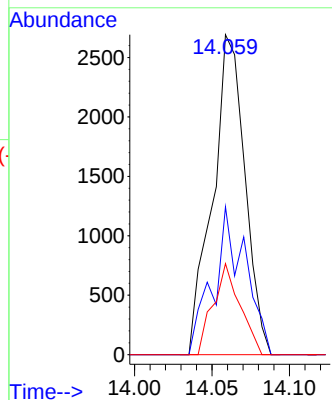
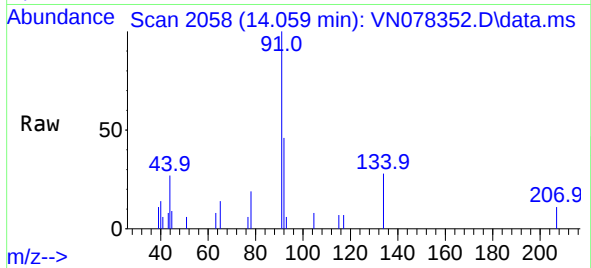




#89
n-Butylbenzene
Concen: 0.302 ug/l
RT: 14.059 min Scan# 2058
Delta R.T. -0.006 min
Lab File: VN078352.D
Acq: 22 Jun 2023 16:04

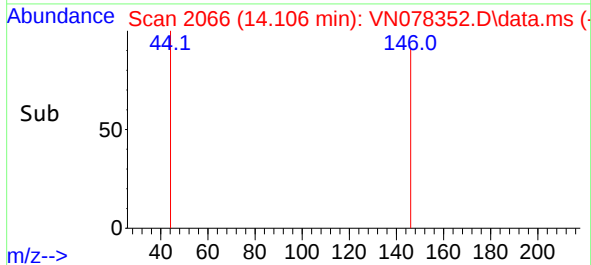
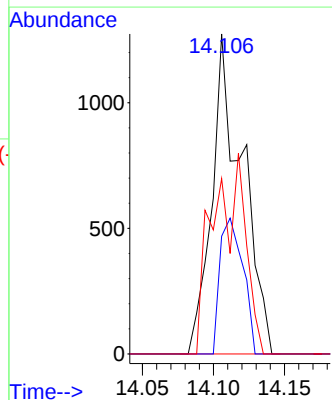
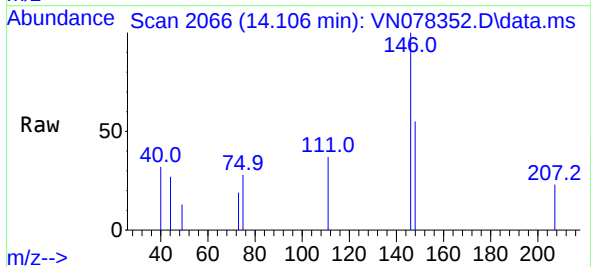
Instrument :
MSVOA_N
ClientSampleId :
TB-01-062123

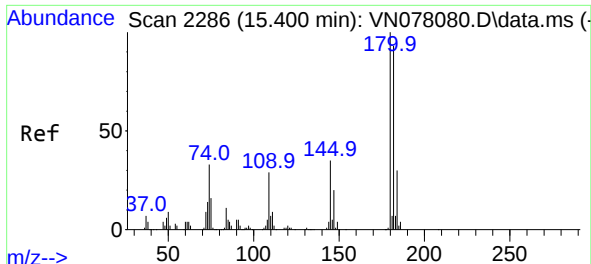
Tgt Ion: 91	Resp:	3902
Ion	Ratio	Lower Upper
91	100	
92	46.1	26.4 79.0
134	23.6	12.6 37.6



#91
1,2-Dichlorobenzene
Concen: 0.225 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.006 min
Lab File: VN078352.D
Acq: 22 Jun 2023 16:04

Tgt Ion: 146	Resp:	1894
Ion	Ratio	Lower Upper
146	100	
111	32.0	22.0 66.0
148	66.2	31.8 95.3

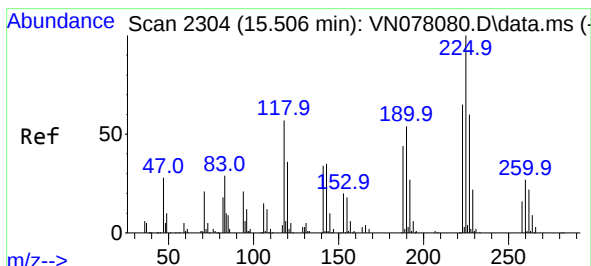
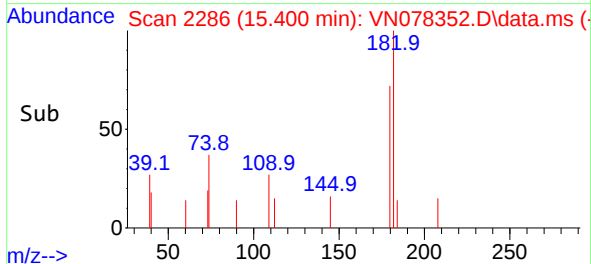
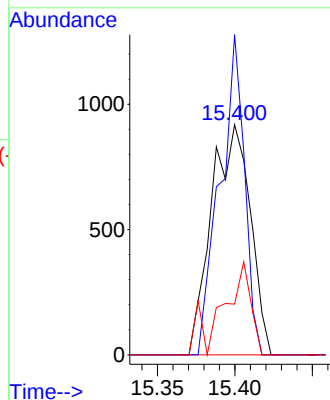
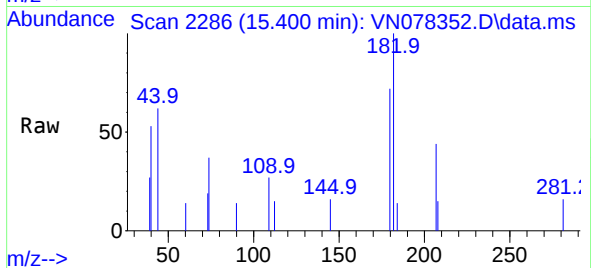




#93
 1,2,4-Trichlorobenzene
 Concen: 0.533 ug/l
 RT: 15.400 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN078352.D
 Acq: 22 Jun 2023 16:04

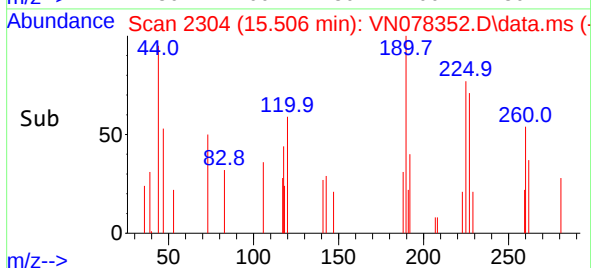
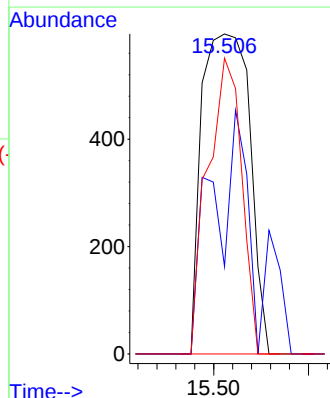
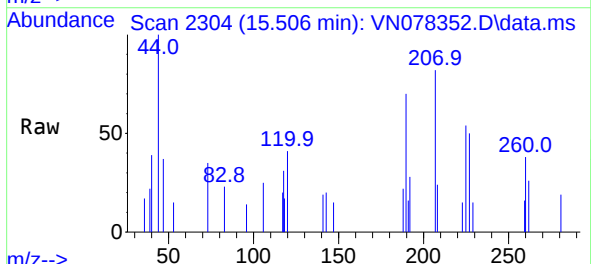
Instrument :
 MSVOA_N
 ClientSampleId :
 TB-01-062123

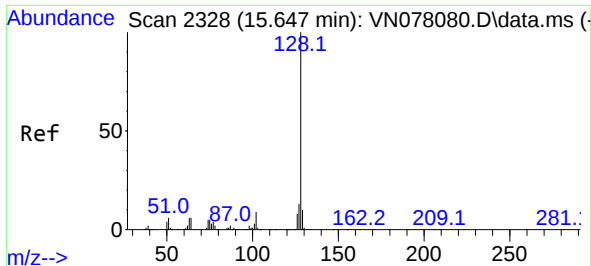
Tgt Ion:	180	Resp:	1598
Ion	Ratio	Lower	Upper
180	100		
182	87.5	46.1	138.2
145	25.0	16.6	49.8



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.506 min Scan# 2304
 Delta R.T. -0.000 min
 Lab File: VN078352.D
 Acq: 22 Jun 2023 16:04

Tgt Ion:	225	Resp:	1046
Ion	Ratio	Lower	Upper
225	100		
223	27.3	31.3	93.8#
227	65.8	31.9	95.9

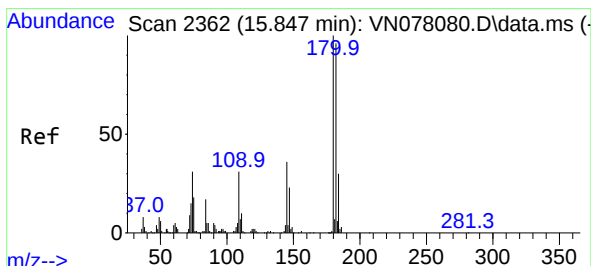
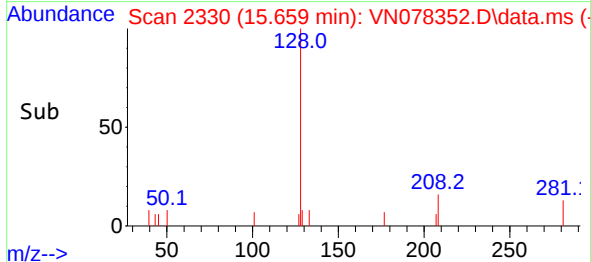
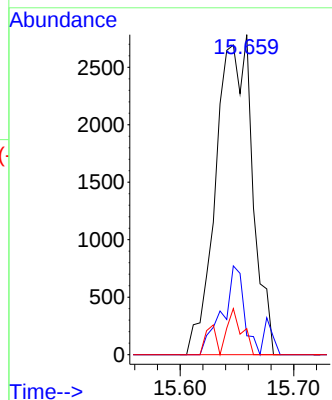
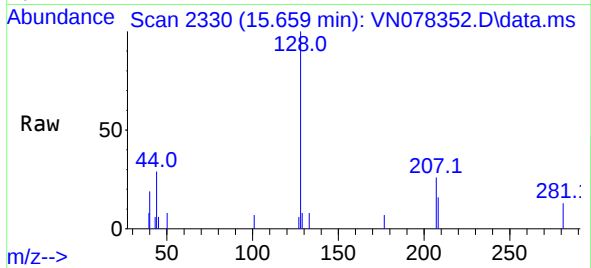




#95
Naphthalene
Concen: 0.609 ug/l
RT: 15.659 min Scan# 21
Delta R.T. 0.012 min
Lab File: VN078352.D
Acq: 22 Jun 2023 16:04

Instrument :
MSVOA_N
ClientSampleId :
TB-01-062123

Tgt Ion:128 Resp: 6147
Ion Ratio Lower Upper
128 100
127 16.6 10.0 15.0#
129 6.0 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 0.633 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.012 min
Lab File: VN078352.D
Acq: 22 Jun 2023 16:04

Tgt Ion:180 Resp: 2123
Ion Ratio Lower Upper
180 100
182 110.1 46.2 138.6
145 35.8 17.5 52.6

