

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061523\
 Data File : VN078226.D
 Acq On : 15 Jun 2023 14:20
 Operator : JC\MD
 Sample : 03241-02 200X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 40508

Quant Time: Jun 16 06:06:42 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)

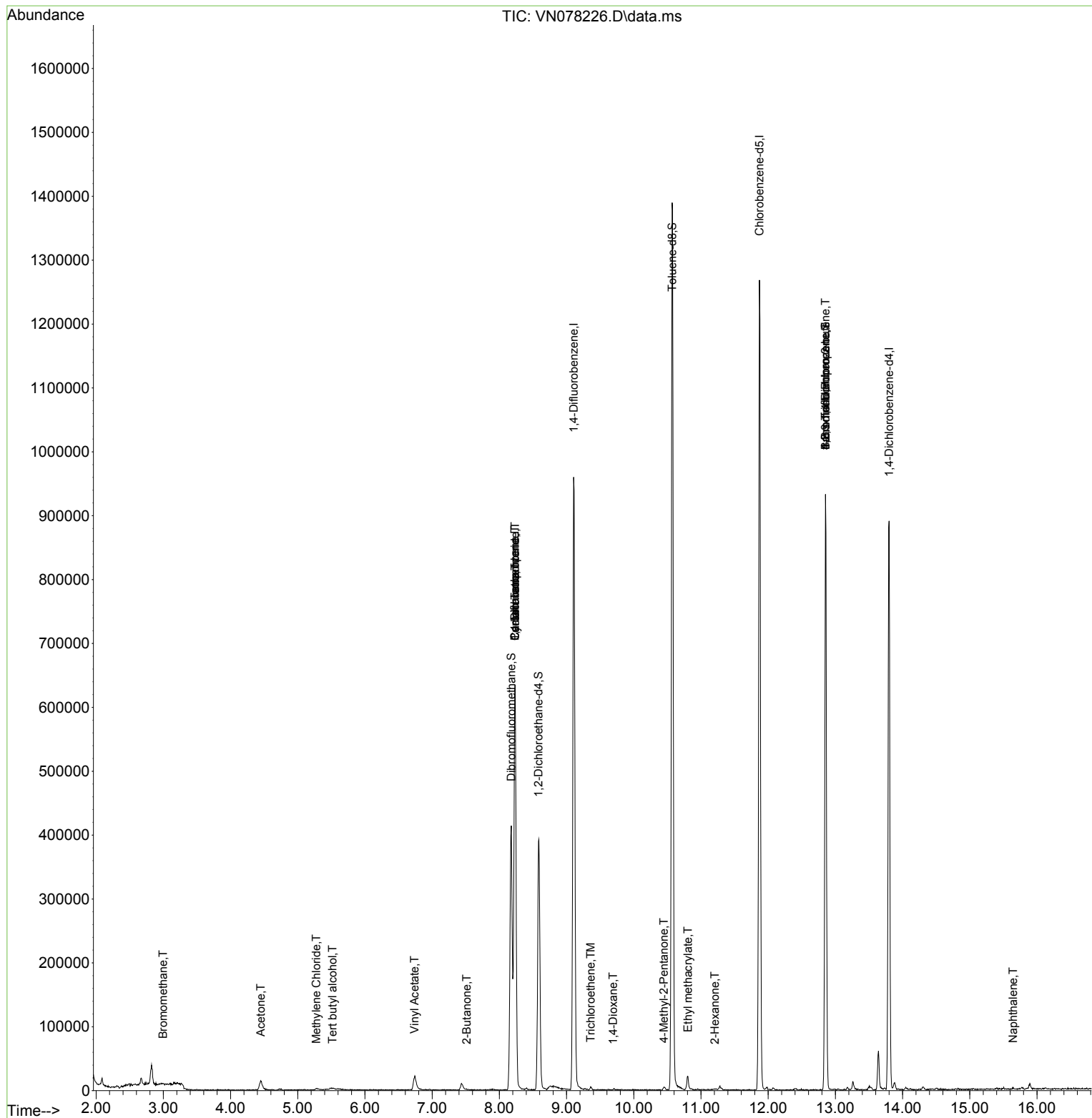
Internal Standards						
1) Pentafluorobenzene	8.230	168	458366	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	864880	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	754959	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	248466	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	329166	53.861	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.720%			
35) Dibromofluoromethane	8.177	113	296954	54.302	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.600%			
50) Toluene-d8	10.571	98	1005133	47.678	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.360%			
62) 4-Bromofluorobenzene	12.853	95	313864	47.890	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 95.780%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	970	Below Cal		94
5) Bromomethane	2.995	94	1538	0.300 ug/l #		67
11) Tert butyl alcohol	5.518	59	1295	1.535 ug/l #		72
16) Acetone	4.448	43	26650	15.150 ug/l		97
20) Methylene Chloride	5.277	84	1252	0.215 ug/l #		65
23) Vinyl Acetate	6.736	43	4443	0.520 ug/l #		62
25) 2-Butanone	7.512	43	704	0.260 ug/l		91
31) Cyclohexane	8.236	56	11197	1.428 ug/l #		30
36) 1,1-Dichloropropene	8.230	75	40054	5.106 ug/l #		48
38) Carbon Tetrachloride	8.236	117	48030	5.799 ug/l #		16
44) Trichloroethene	9.359	130	1318	0.213 ug/l		86
49) 1,4-Dioxane	9.694	88	738	7.140 ug/l #		65
51) 4-Methyl-2-Pentanone	10.447	43	3676	0.596 ug/l		88
56) Ethyl methacrylate	10.806	69	4256	0.523 ug/l #		40
59) 2-Hexanone	11.206	43	1462	0.340 ug/l #		53
71) Bromoform	12.853	173	2312	0.602 ug/l #		1
75) 1,1,2,2-Tetrachloroethane	12.953	83	186	Below Cal #		26
76) 1,2,3-Trichloropropane	12.853	75	172457	29.360 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.853	75	172457	90.204 ug/l #		15
94) Hexachlorobutadiene	15.512	225	237	Below Cal #		8
95) Naphthalene	15.647	128	2250	0.208 ug/l #		82

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

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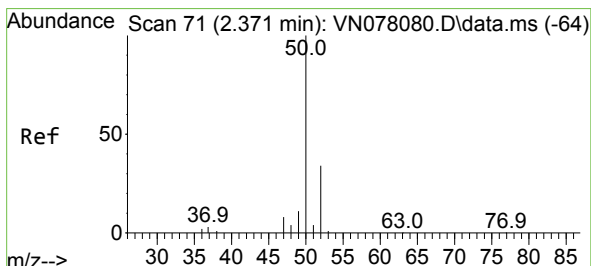
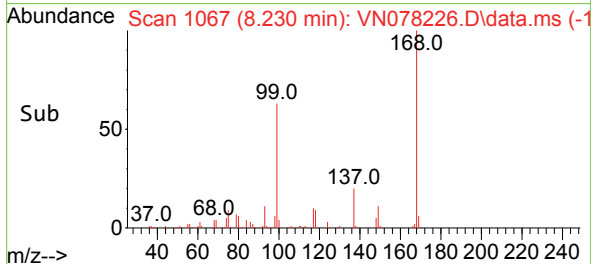
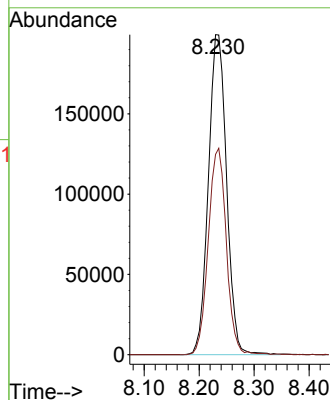
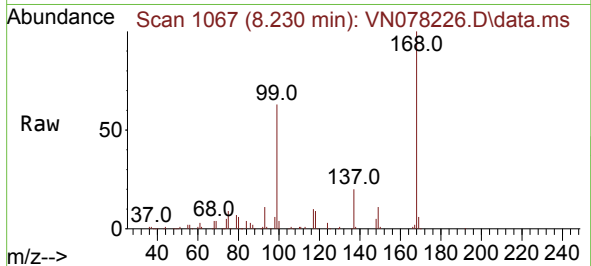




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 11
Delta R.T. -0.005 min
Lab File: VN078226.D
Acq: 15 Jun 2023 14:20

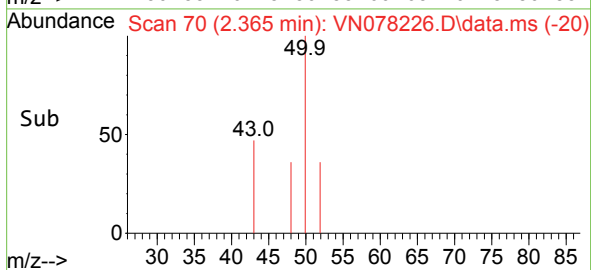
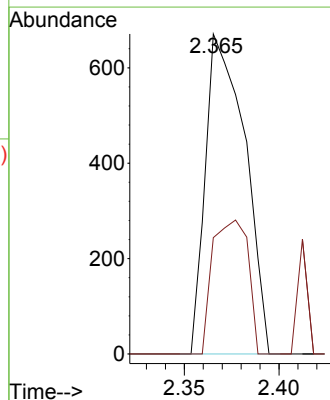
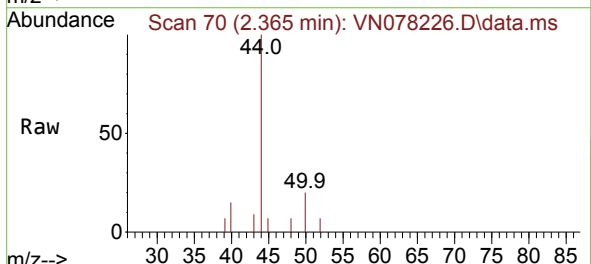
Instrument :
MSVOA_N
ClientSampleId :
40508

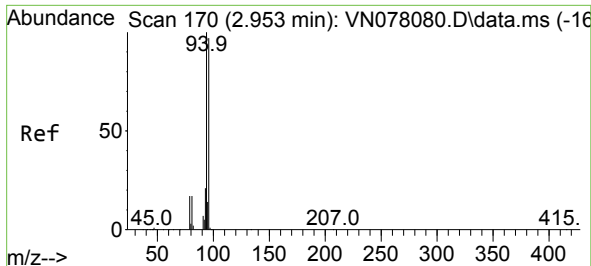
Tgt Ion:168 Resp: 458366
Ion Ratio Lower Upper
168 100
99 62.6 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.365 min Scan# 70
Delta R.T. -0.006 min
Lab File: VN078226.D
Acq: 15 Jun 2023 14:20

Tgt Ion: 50 Resp: 970
Ion Ratio Lower Upper
50 100
52 36.4 26.5 39.7

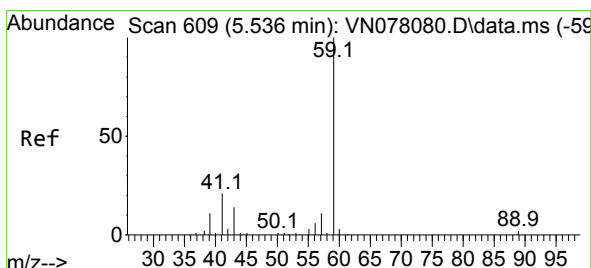
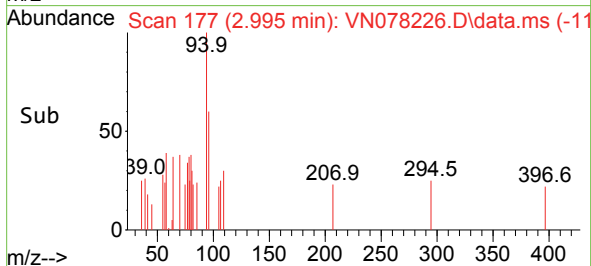
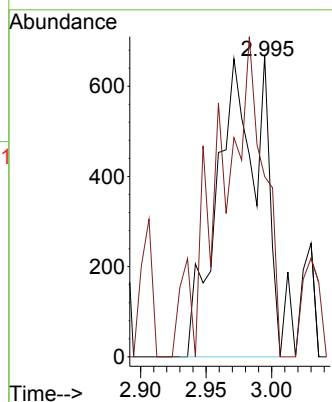
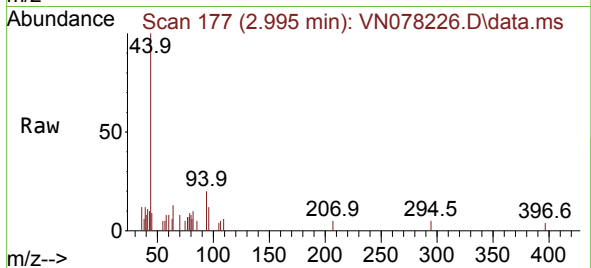




#5
Bromomethane
Concen: 0.300 ug/l
RT: 2.995 min Scan# 11
Delta R.T. 0.041 min
Lab File: VN078226.D
Acq: 15 Jun 2023 14:20

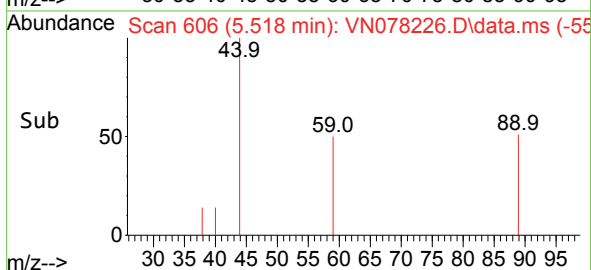
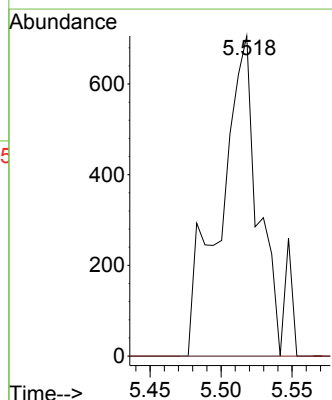
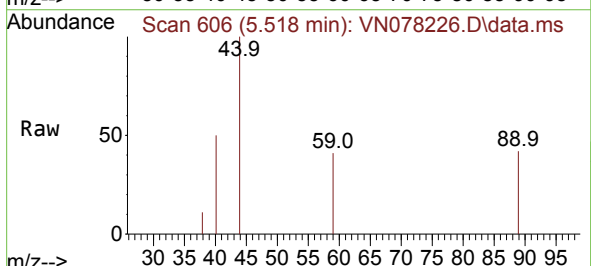
Instrument :
MSVOA_N
ClientSampleId :
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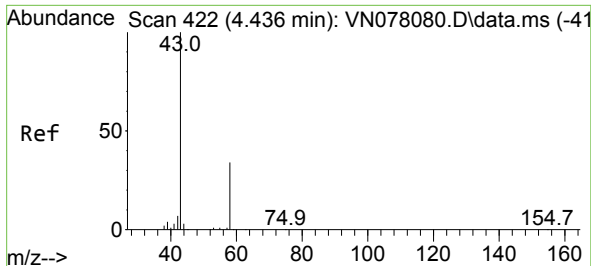
Tgt Ion: 94 Resp: 1538
Ion Ratio Lower Upper
94 100
96 59.9 73.1 109.7#



#11
Tert butyl alcohol
Concen: 1.535 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.018 min
Lab File: VN078226.D
Acq: 15 Jun 2023 14:20

Tgt Ion: 59 Resp: 1295
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#16

Acetone

Concen: 15.150 ug/l

RT: 4.448 min Scan# 41

Delta R.T. 0.012 min

Lab File: VN078226.D

Acq: 15 Jun 2023 14:20

Instrument :

MSVOA_N

ClientSampleId :

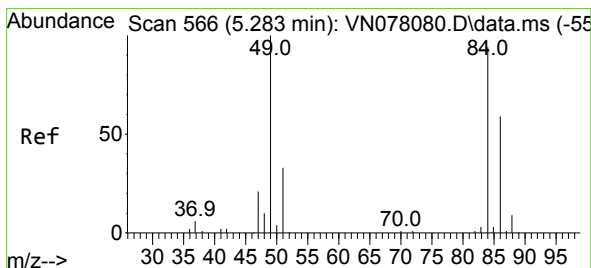
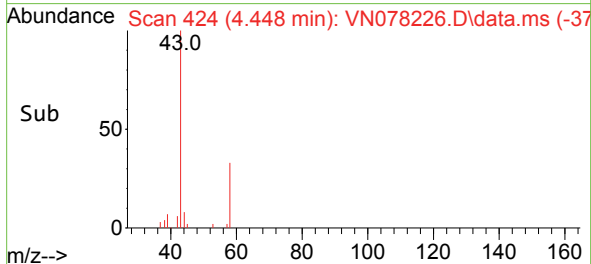
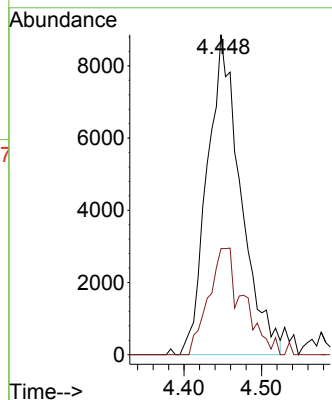
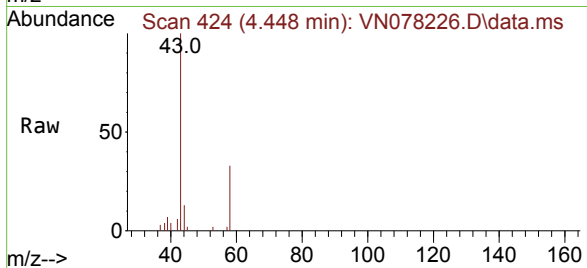
40508

Tgt Ion: 43 Resp: 26650

Ion Ratio Lower Upper

43 100

58 33.1 28.0 42.0



#20

Methylene Chloride

Concen: 0.215 ug/l

RT: 5.277 min Scan# 565

Delta R.T. -0.006 min

Lab File: VN078226.D

Acq: 15 Jun 2023 14:20

Tgt Ion: 84 Resp: 1252

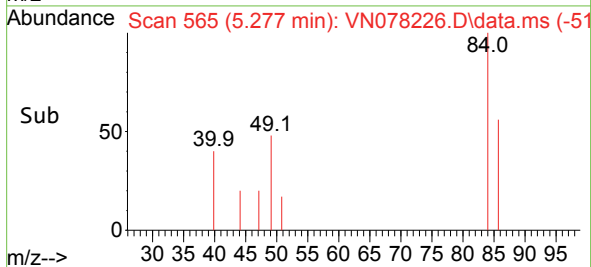
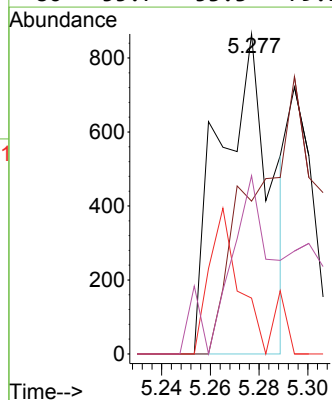
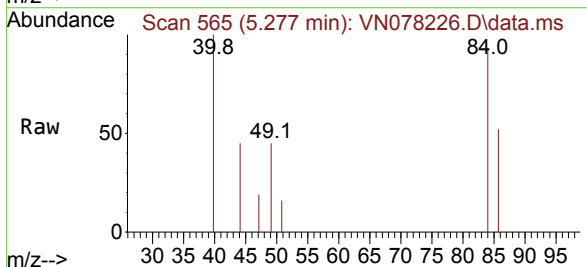
Ion Ratio Lower Upper

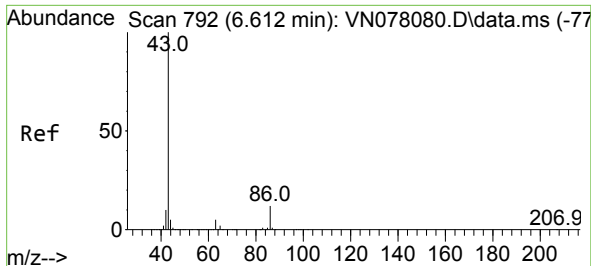
84 100

49 47.7 79.7 119.5#

51 17.5 25.2 37.8#

86 55.7 53.3 79.9

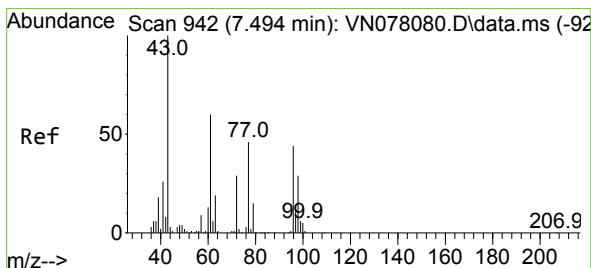
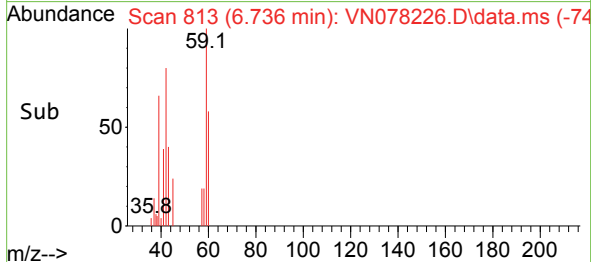
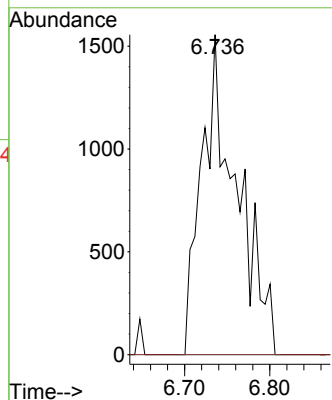
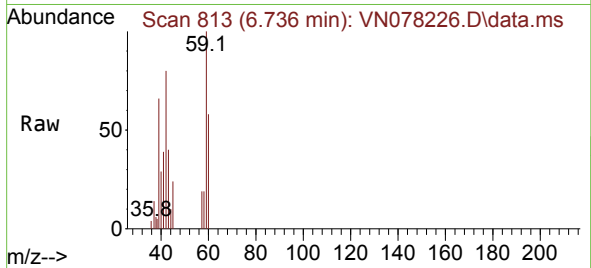




#23
 Vinyl Acetate
 Concen: 0.520 ug/l
 RT: 6.736 min Scan# 81
 Delta R.T. 0.124 min
 Lab File: VN078226.D
 Acq: 15 Jun 2023 14:20

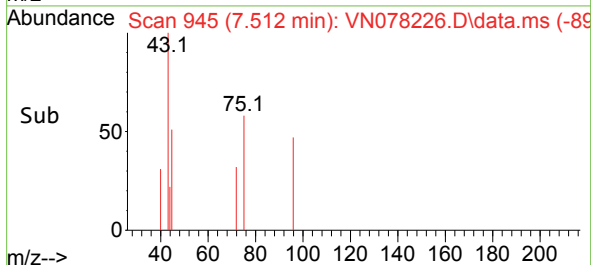
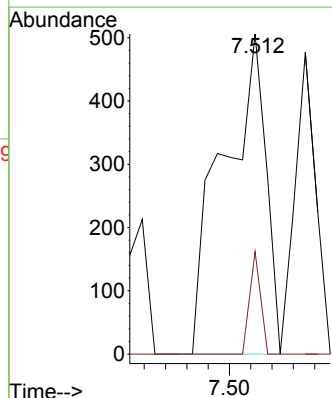
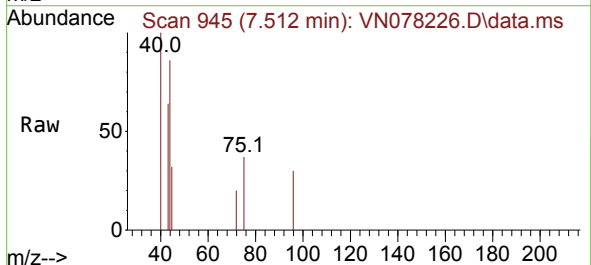
Instrument :
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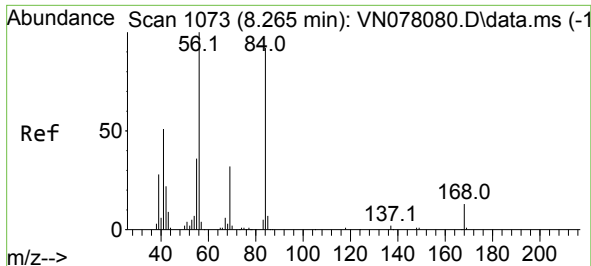
Tgt Ion: 43 Resp: 4443
 Ion Ratio Lower Upper
 43 100
 86 0.0 13.0 19.6#



#25
 2-Butanone
 Concen: 0.260 ug/l
 RT: 7.512 min Scan# 945
 Delta R.T. 0.018 min
 Lab File: VN078226.D
 Acq: 15 Jun 2023 14:20

Tgt Ion: 43 Resp: 704
 Ion Ratio Lower Upper
 43 100
 72 32.0 30.2 45.2

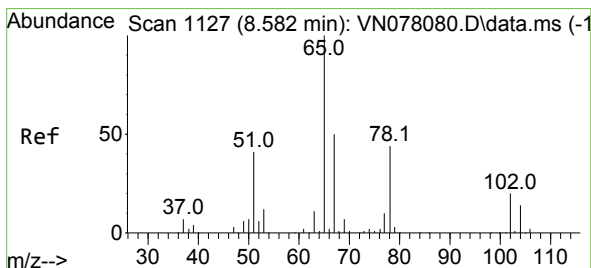
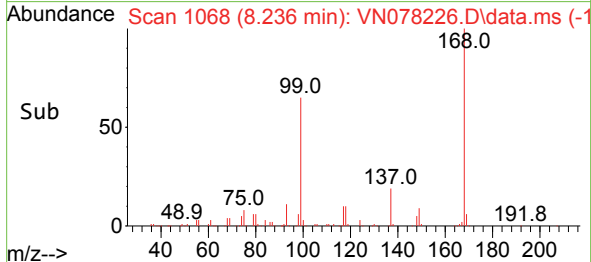
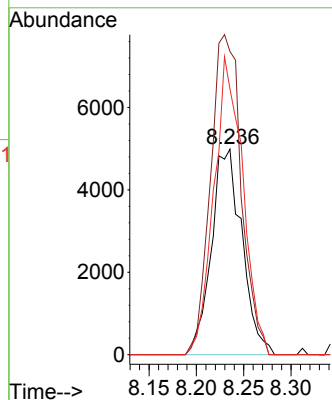
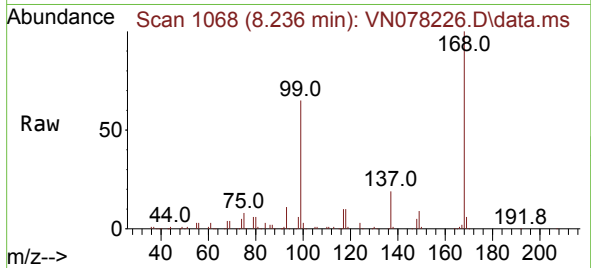




#31
Cyclohexane
Concen: 1.428 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.029 min
Lab File: VN078226.D
Acq: 15 Jun 2023 14:20

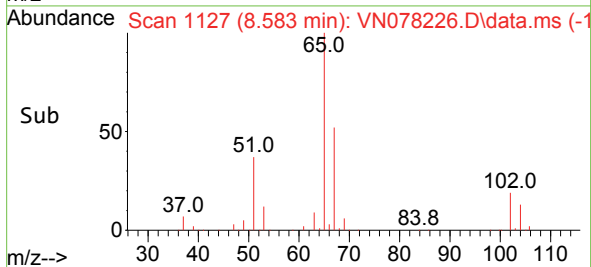
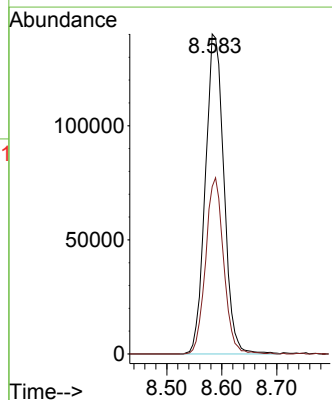
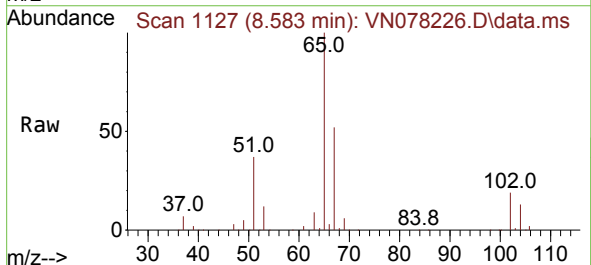
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ClientSampleId :
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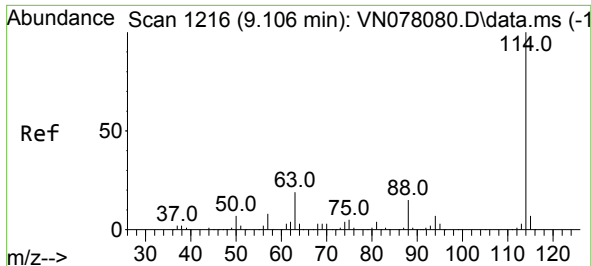
Tgt Ion: 56 Resp: 11197
Ion Ratio Lower Upper
56 100
69 147.6 26.8 40.2#
84 129.4 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 53.861 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN078226.D
Acq: 15 Jun 2023 14:20

Tgt Ion: 65 Resp: 329166
Ion Ratio Lower Upper
65 100
67 53.4 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN078226.D

Acq: 15 Jun 2023 14:20

Instrument :

MSVOA_N

ClientSampleId :

40508

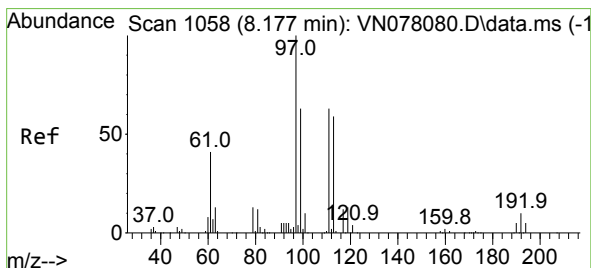
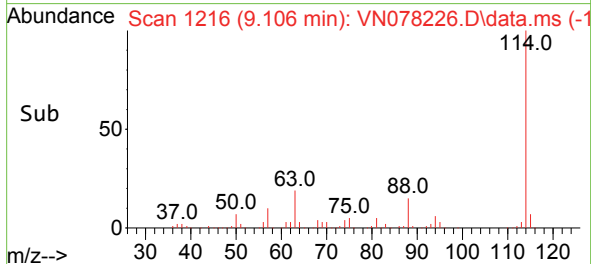
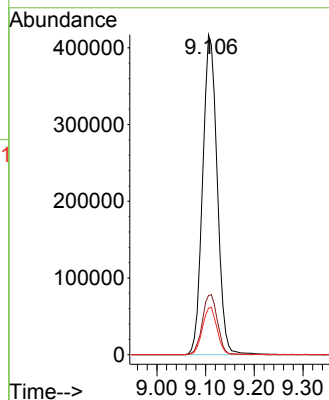
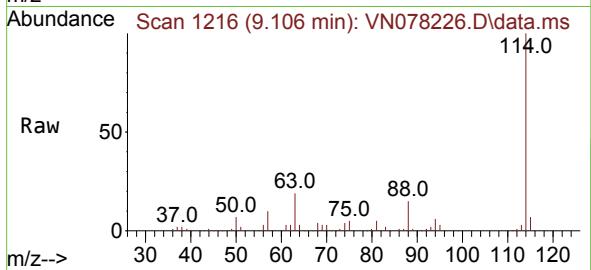
Tgt Ion:114 Resp: 864880

Ion Ratio Lower Upper

114 100

63 18.5 0.0 36.4

88 14.5 0.0 30.6



#35

Dibromofluoromethane

Concen: 54.302 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.000 min

Lab File: VN078226.D

Acq: 15 Jun 2023 14:20

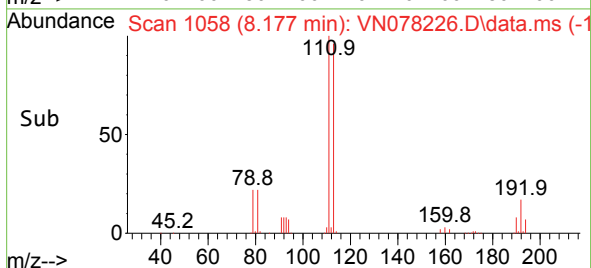
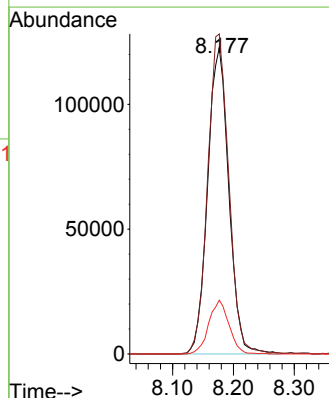
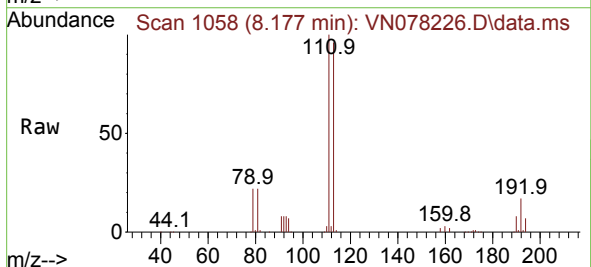
Tgt Ion:113 Resp: 296954

Ion Ratio Lower Upper

113 100

111 103.8 82.6 123.8

192 16.7 12.7 19.1

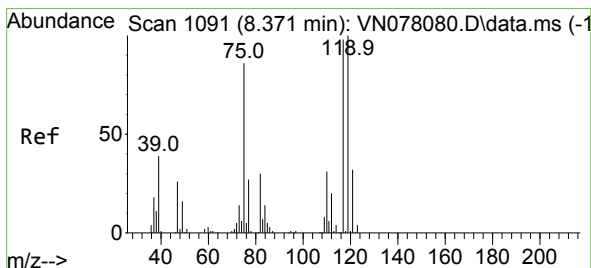
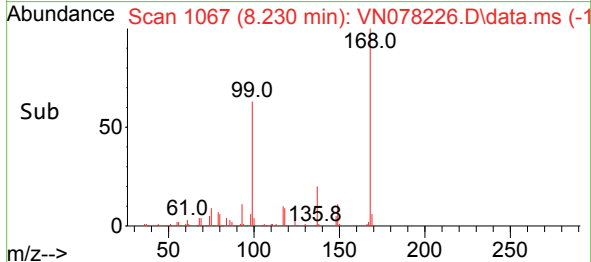
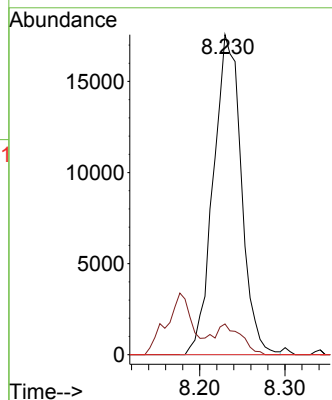
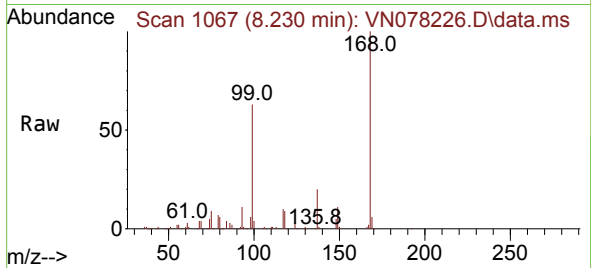




#36
1,1-Dichloropropene
Concen: 5.106 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN078226.D
Acq: 15 Jun 2023 14:20

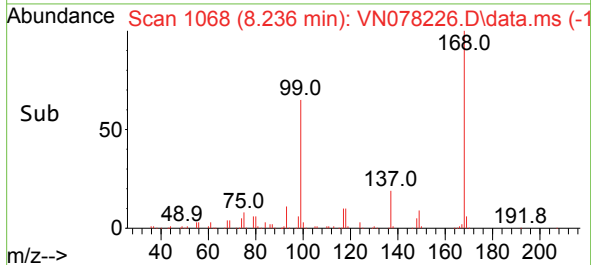
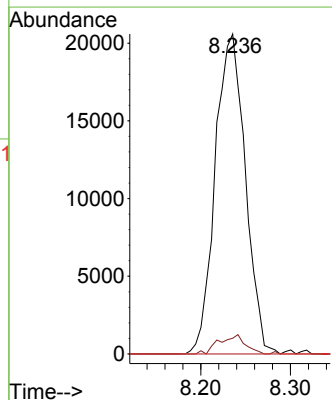
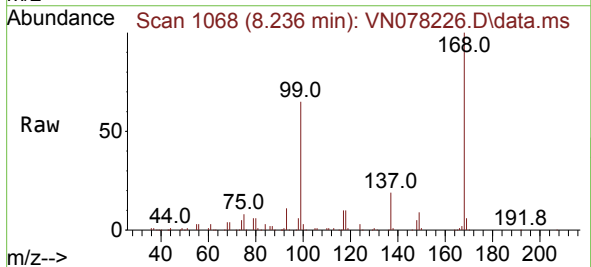
Instrument :
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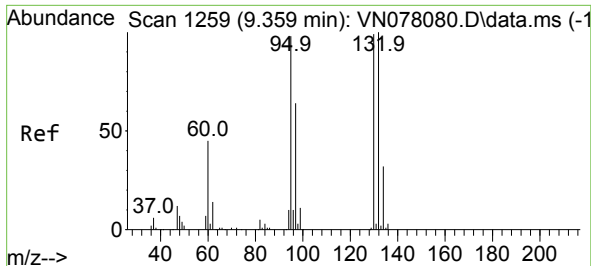
Tgt Ion: 75 Resp: 40054
Ion Ratio Lower Upper
75 100
110 9.4 19.1 57.3#
77 0.0 25.0 37.4#



#38
Carbon Tetrachloride
Concen: 5.799 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.135 min
Lab File: VN078226.D
Acq: 15 Jun 2023 14:20

Tgt Ion: 117 Resp: 48030
Ion Ratio Lower Upper
117 100
119 4.9 77.3 115.9#
121 0.0 23.3 34.9#

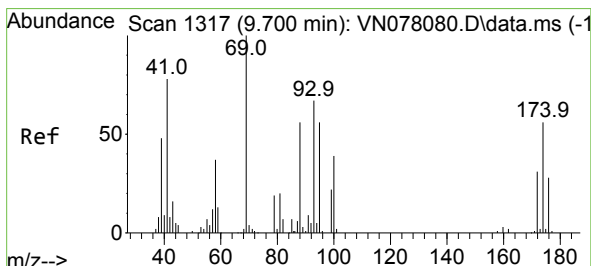
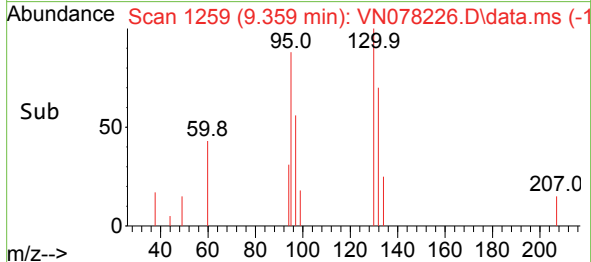
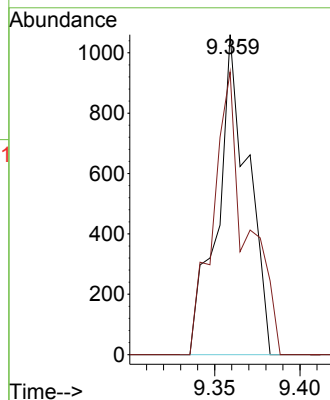
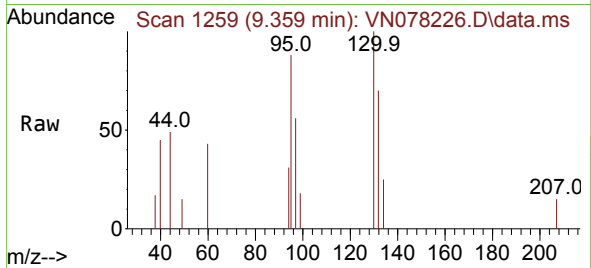




#44
Trichloroethene
Concen: 0.213 ug/l
RT: 9.359 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN078226.D
Acq: 15 Jun 2023 14:20

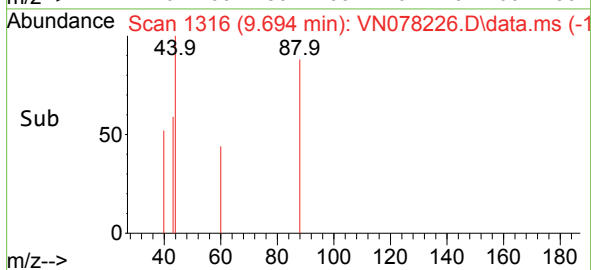
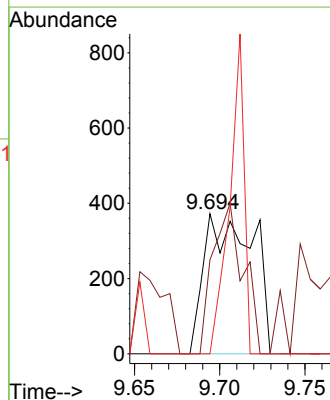
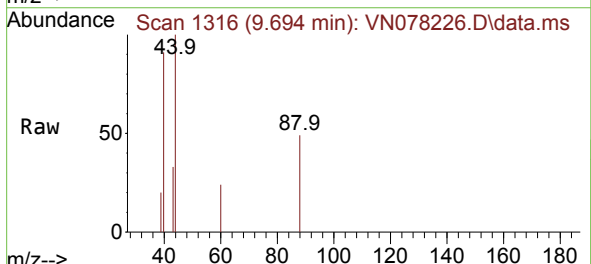
Instrument :
MSVOA_N
ClientSampleId :
40508

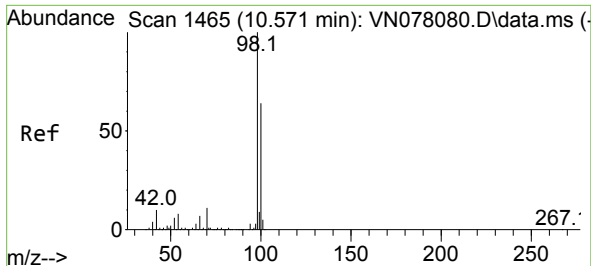
Tgt Ion:130 Resp: 1318
Ion Ratio Lower Upper
130 100
95 88.4 0.0 204.6



#49
1,4-Dioxane
Concen: 7.140 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. -0.006 min
Lab File: VN078226.D
Acq: 15 Jun 2023 14:20

Tgt Ion: 88 Resp: 738
Ion Ratio Lower Upper
88 100
43 67.3 17.0 25.6#
58 68.3 47.0 70.4

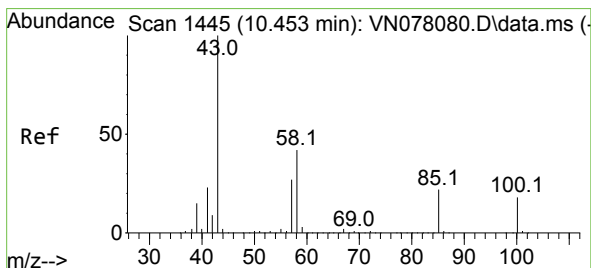
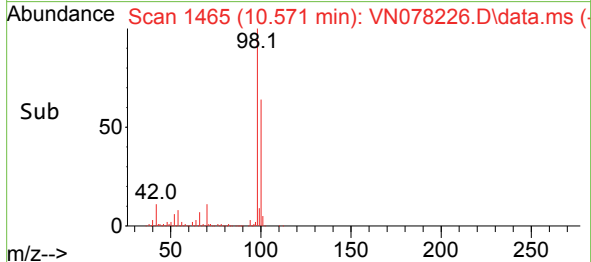
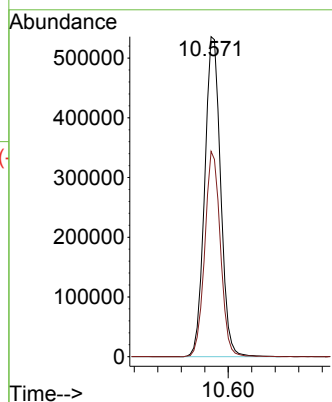
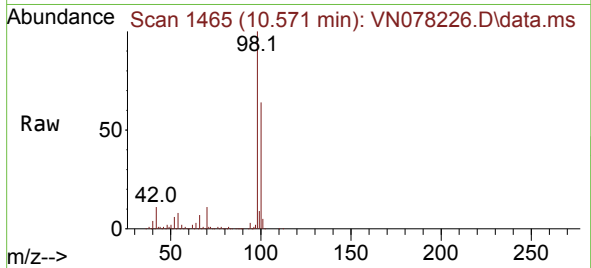




#50
Toluene-d8
Concen: 47.678 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN078226.D
Acq: 15 Jun 2023 14:20

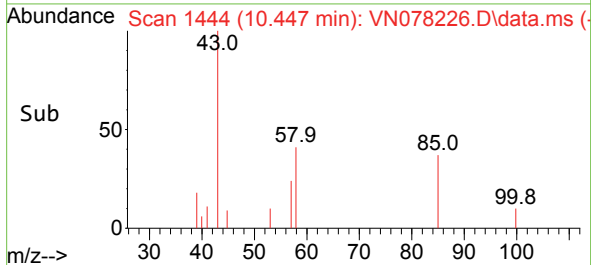
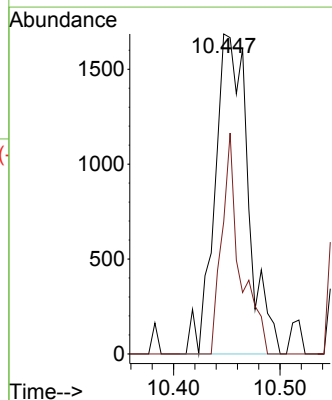
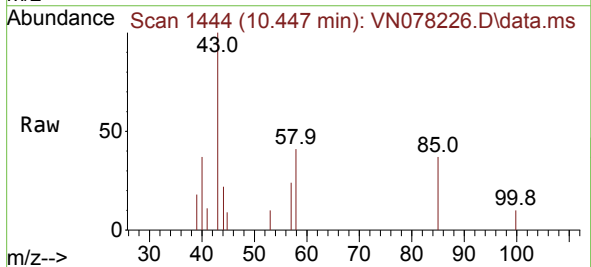
Instrument :
MSVOA_N
ClientSampleId :
40508

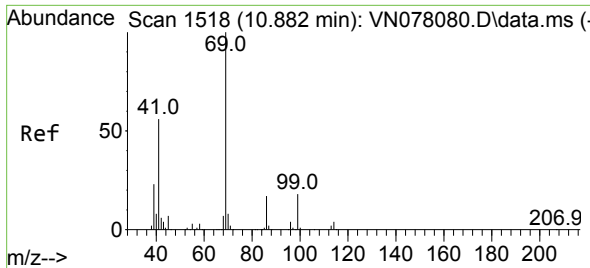
Tgt Ion: 98 Resp: 1005133
Ion Ratio Lower Upper
98 100
100 62.9 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 0.596 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.006 min
Lab File: VN078226.D
Acq: 15 Jun 2023 14:20

Tgt Ion: 43 Resp: 3676
Ion Ratio Lower Upper
43 100
58 37.9 36.6 54.8

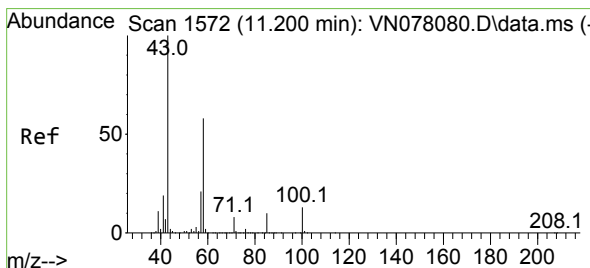
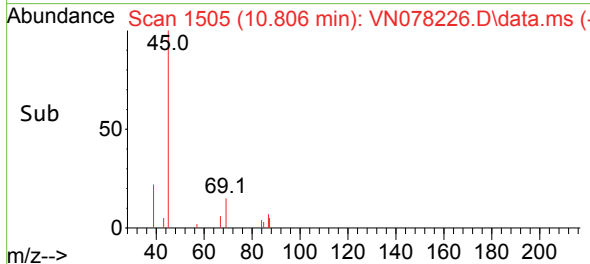
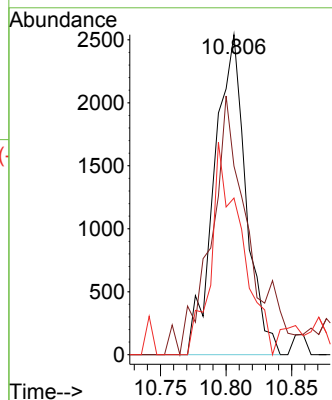
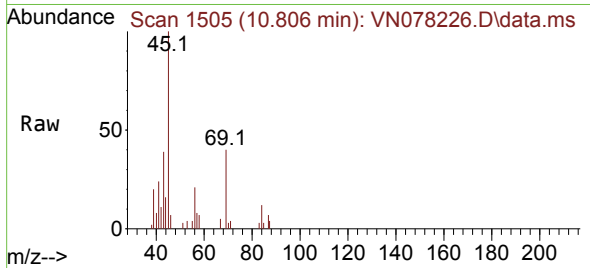




#56
 Ethyl methacrylate
 Concen: 0.523 ug/l
 RT: 10.806 min Scan# 1505
 Delta R.T. -0.076 min
 Lab File: VN078226.D
 Acq: 15 Jun 2023 14:20

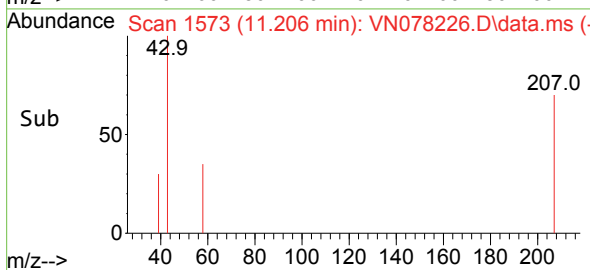
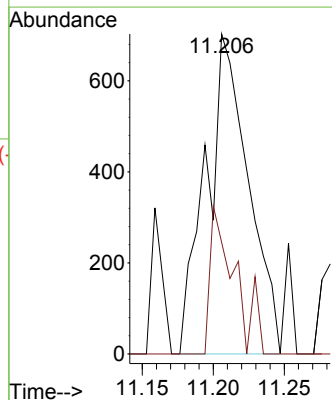
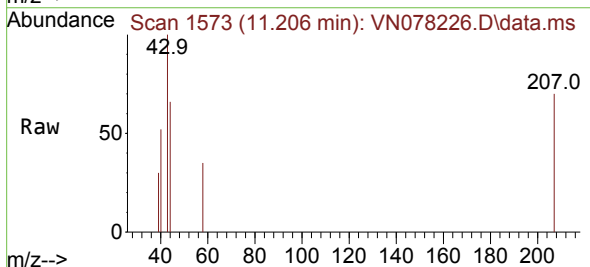
Instrument :
 MSVOA_N
 ClientSampleId :
 40508

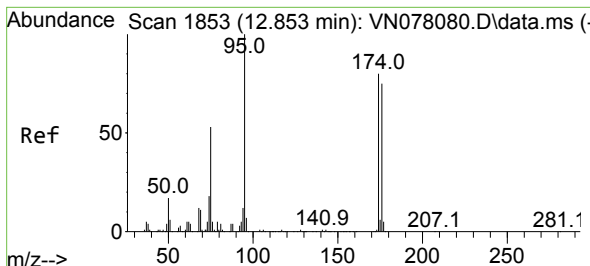
Tgt Ion: 69 Resp: 4256
 Ion Ratio Lower Upper
 69 100
 41 96.7 39.6 59.4#
 39 63.3 28.6 43.0#



#59
 2-Hexanone
 Concen: 0.340 ug/l
 RT: 11.206 min Scan# 1573
 Delta R.T. 0.006 min
 Lab File: VN078226.D
 Acq: 15 Jun 2023 14:20

Tgt Ion: 43 Resp: 1462
 Ion Ratio Lower Upper
 43 100
 58 26.8 31.7 95.1#

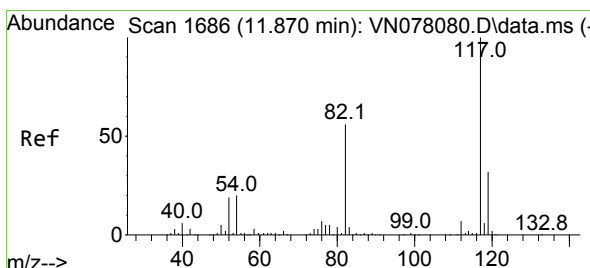
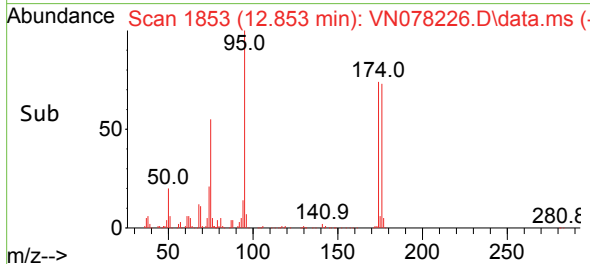
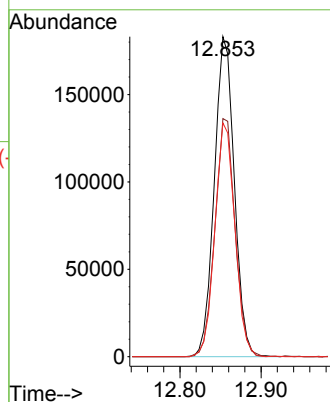
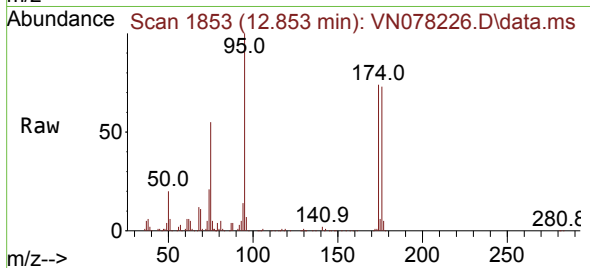




#62
4-Bromofluorobenzene
Concen: 47.890 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078226.D
Acq: 15 Jun 2023 14:20

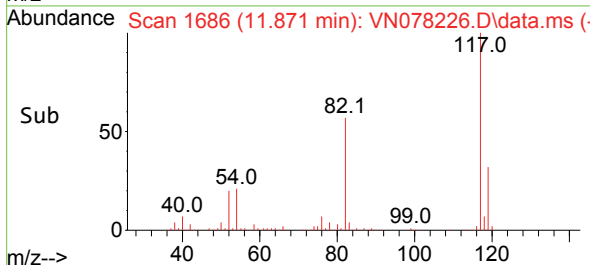
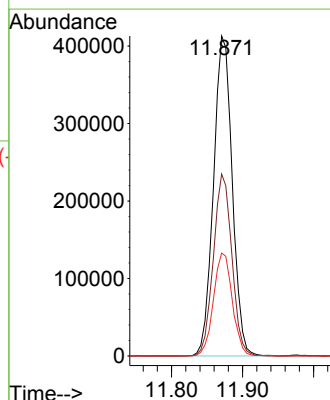
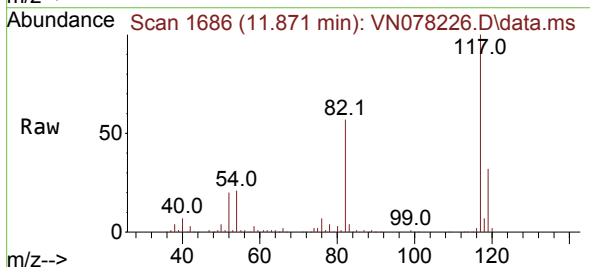
Instrument :
MSVOA_N
ClientSampleId :
40508

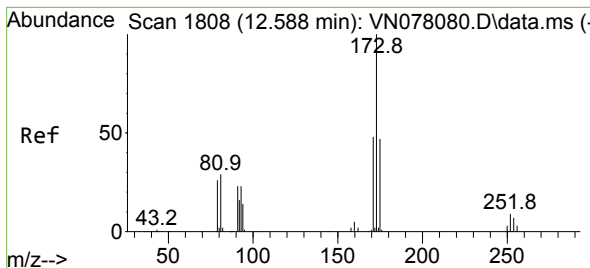
Tgt Ion:	95	Resp:	313864
Ion	Ratio	Lower	Upper
95	100		
174	75.1	0.0	143.8
176	73.1	0.0	135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN078226.D
Acq: 15 Jun 2023 14:20

Tgt Ion:	117	Resp:	754959
Ion	Ratio	Lower	Upper
117	100		
82	56.8	44.0	66.0
119	32.2	25.6	38.4





#71

Bromoform

Concen: 0.602 ug/l

RT: 12.853 min Scan# 1808

Delta R.T. 0.265 min

Lab File: VN078226.D

Acq: 15 Jun 2023 14:20

Instrument :

MSVOA_N

ClientSampleId :

40508

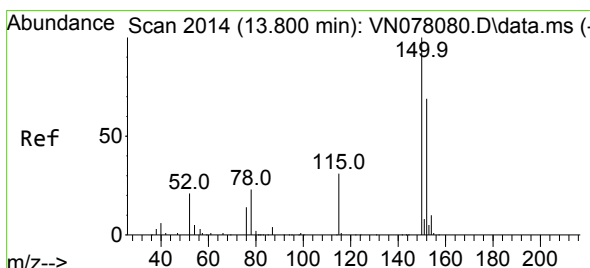
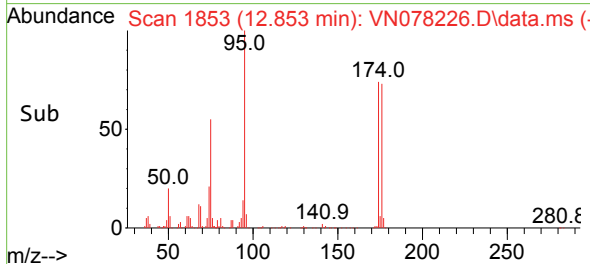
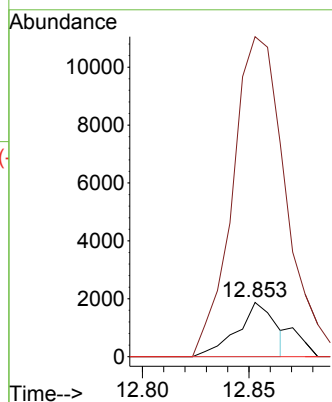
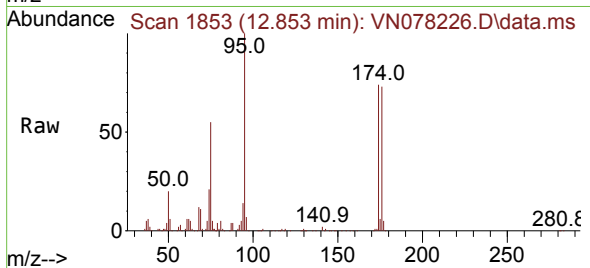
Tgt Ion:173 Resp: 2312

Ion Ratio Lower Upper

173 100

175 714.4 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. 0.000 min

Lab File: VN078226.D

Acq: 15 Jun 2023 14:20

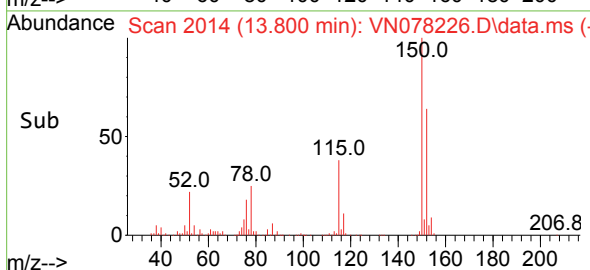
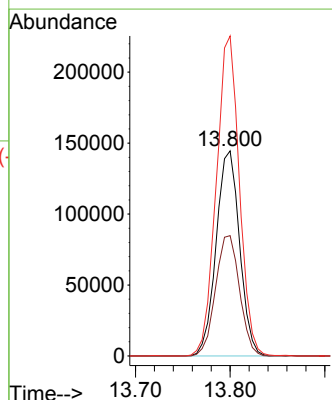
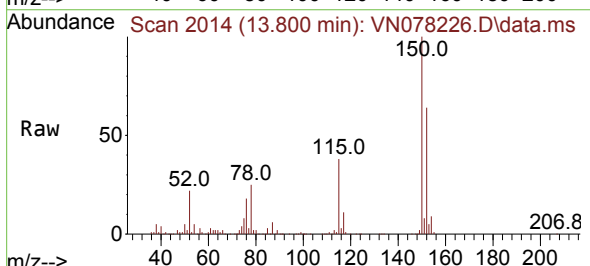
Tgt Ion:152 Resp: 248466

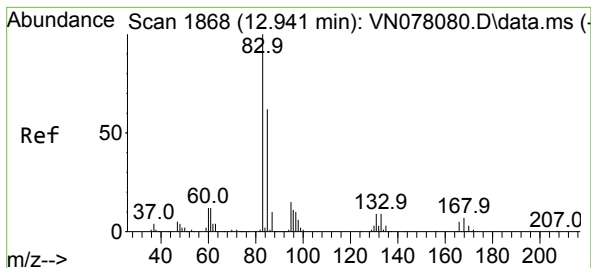
Ion Ratio Lower Upper

152 100

115 60.1 32.3 96.8

150 153.6 0.0 355.8





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.953 min Scan# 1868

Delta R.T. 0.012 min

Lab File: VN078226.D

Acq: 15 Jun 2023 14:20

Instrument :

MSVOA_N

ClientSampleId :

40508

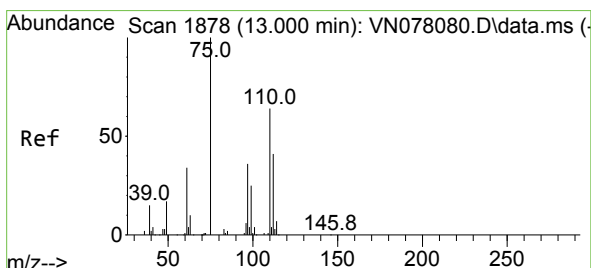
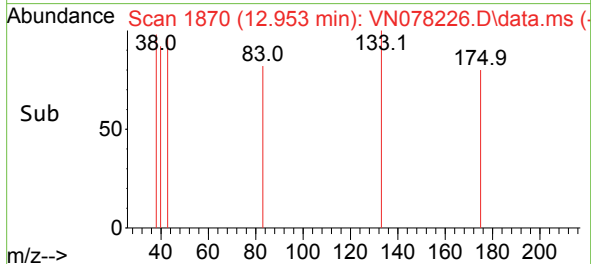
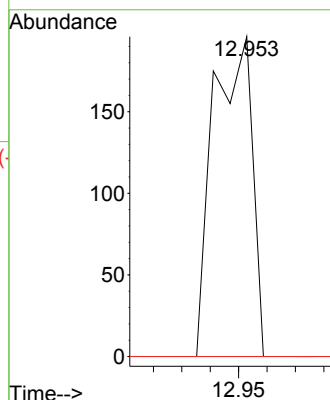
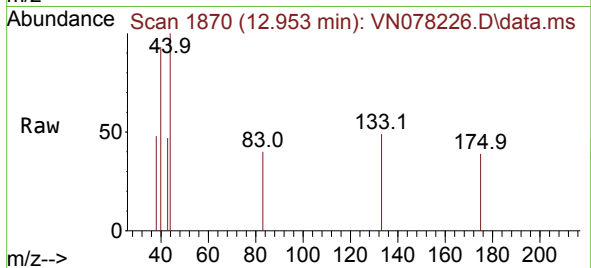
Tgt Ion: 83 Resp: 186

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 0.0 31.9 95.7#



#76

1,2,3-Trichloropropane

Concen: 29.360 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078226.D

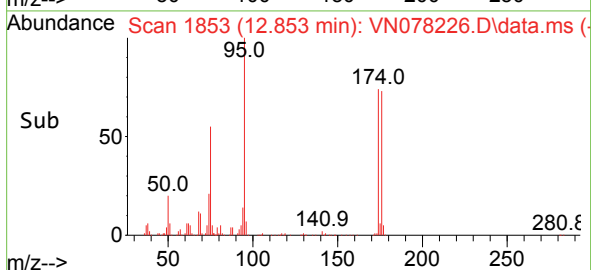
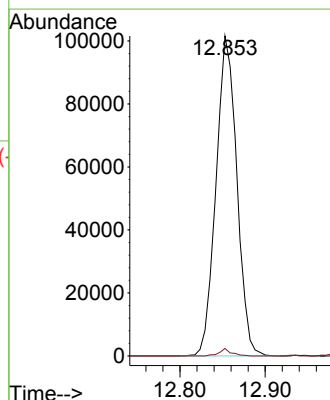
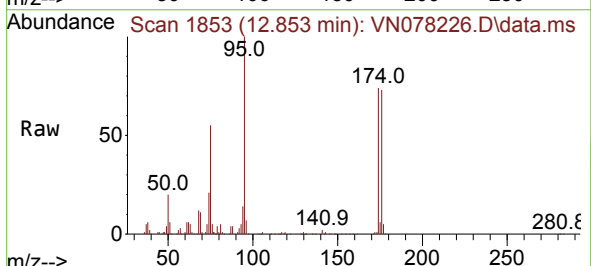
Acq: 15 Jun 2023 14:20

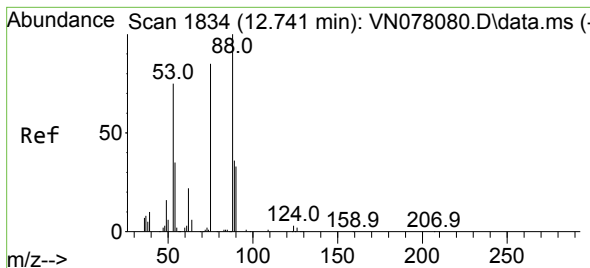
Tgt Ion: 75 Resp: 172457

Ion Ratio Lower Upper

75 100

77 1.4 84.5 253.5#

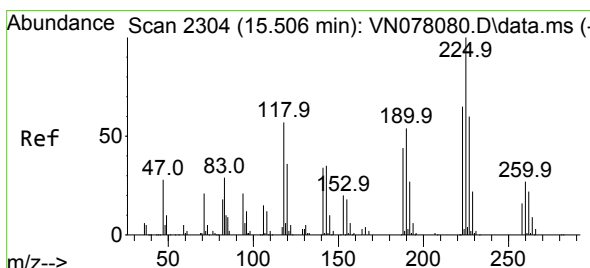
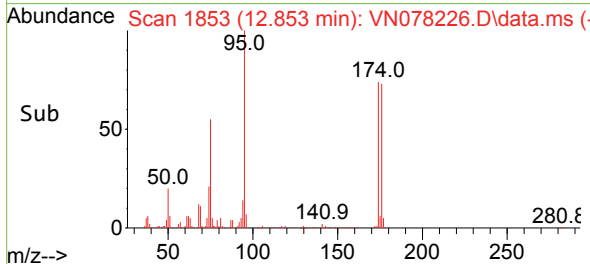
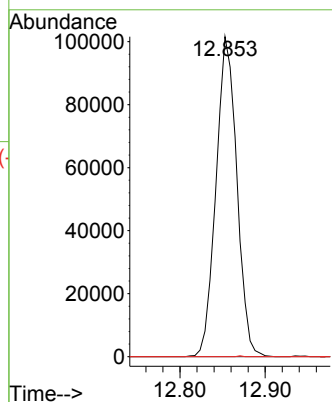
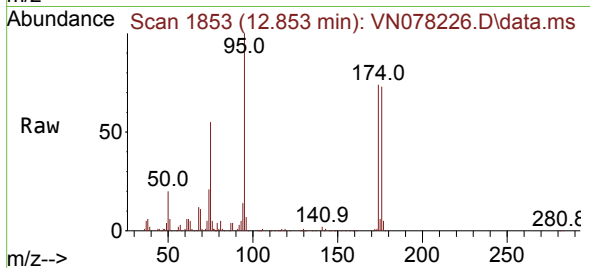




#81
trans-1,4-Dichloro-2-butene
Concen: 90.204 ug/l
RT: 12.853 min Scan# 1834
Delta R.T. 0.112 min
Lab File: VN078226.D
Acq: 15 Jun 2023 14:20

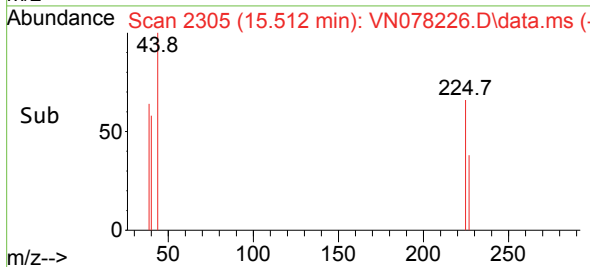
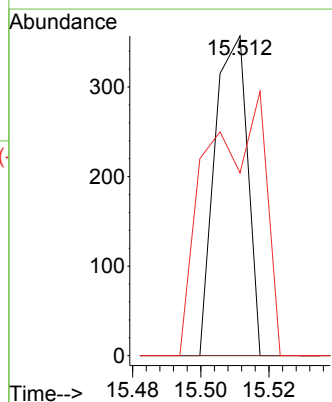
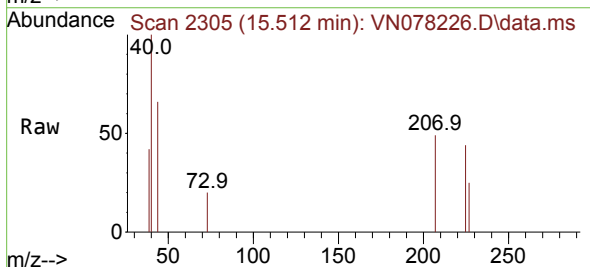
Instrument :
MSVOA_N
ClientSampleId :
40508

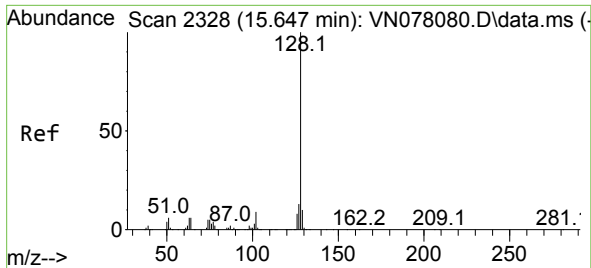
Tgt Ion: 75 Resp: 172457
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.1 38.8 58.2#



#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.512 min Scan# 2305
Delta R.T. 0.006 min
Lab File: VN078226.D
Acq: 15 Jun 2023 14:20

Tgt Ion: 225 Resp: 237
Ion Ratio Lower Upper
225 100
223 0.0 31.3 93.8#
227 144.3 31.9 95.9#





#95

Naphthalene

Concen: 0.208 ug/l

RT: 15.647 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN078226.D

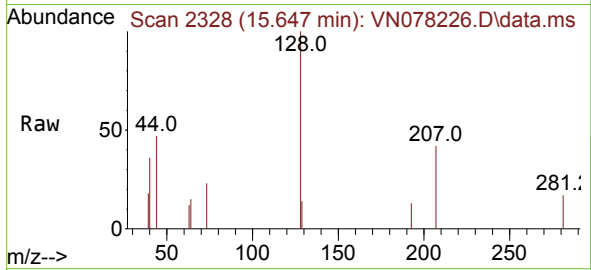
Acq: 15 Jun 2023 14:20

Instrument :

MSVOA_N

ClientSampleId :

40508



Tgt Ion:128 Resp: 2250

Ion Ratio Lower Upper

128 100

127 0.0 10.0 15.0#

129 10.4 8.7 13.1

