

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110323\
 Data File : VN079871.D
 Acq On : 04 Nov 2023 02:46
 Operator : JC\MD
 Sample : 05223-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 04 04:47:34 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N110123W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 02 05:49:08 2023
 Response via : Initial Calibration

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

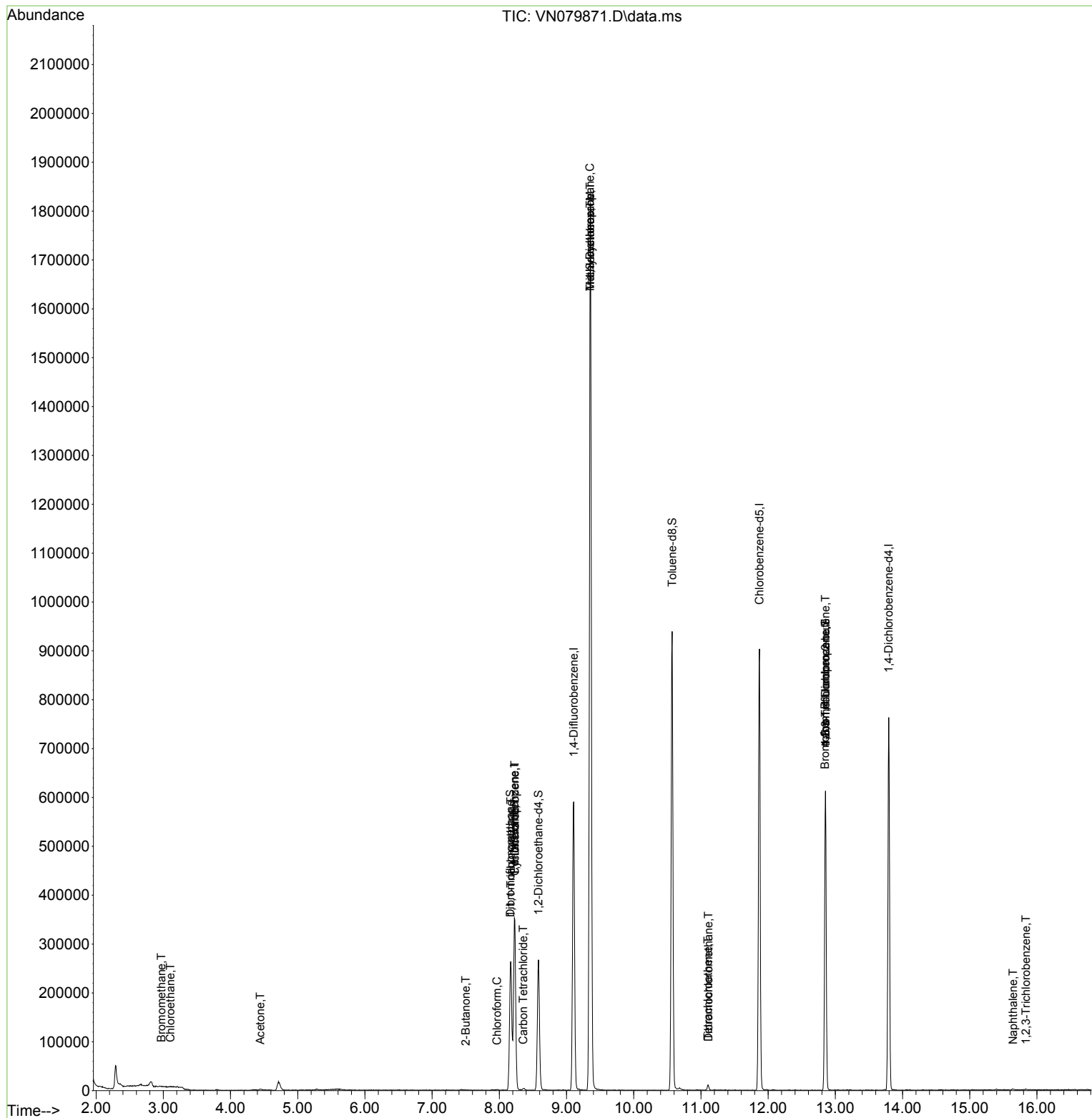
Internal Standards						
1) Pentafluorobenzene	8.224	168	244616	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	494033	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	504979	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	194808	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	213523	57.294	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 114.580%			
35) Dibromofluoromethane	8.165	113	178517	51.055	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.100%			
50) Toluene-d8	10.571	98	627940	48.783	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.560%			
62) 4-Bromofluorobenzene	12.853	95	202639	47.467	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 94.940%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.360	50	2359	Below Cal	#	71
5) Bromomethane	2.971	94	911	0.389	ug/l	91
6) Chloroethane	3.107	64	1704	0.559	ug/l #	82
16) Acetone	4.442	43	3635	2.777	ug/l #	71
25) 2-Butanone	7.500	43	492	0.257	ug/l #	37
30) Chloroform	7.965	83	1535	0.249	ug/l #	72
31) Cyclohexane	8.230	56	6469	1.314	ug/l #	40
32) 1,1,1-Trichloroethane	8.171	97	11723	2.332	ug/l #	85
36) 1,1-Dichloropropene	8.230	75	22549	4.517	ug/l #	49
38) Carbon Tetrachloride	8.353	117	2646	0.526	ug/l #	63
39) Methylcyclohexane	9.353	83	8422	1.793	ug/l #	1
44) Trichloroethene	9.353	130	619941	167.075	ug/l	97
45) 1,2-Dichloropropane	9.347	63	2287	0.598	ug/l #	1
60) Dibromochloromethane	11.112	129	1999	0.524	ug/l #	11
64) Tetrachloroethene	11.106	164	2160	0.660	ug/l #	81
71) Bromoform	12.847	173	1424	0.508	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	114170	24.963	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	114170	67.919	ug/l #	15
95) Naphthalene	15.647	128	2992	0.292	ug/l #	74
96) 1,2,3-Trichlorobenzene	15.835	180	597	0.202	ug/l	75

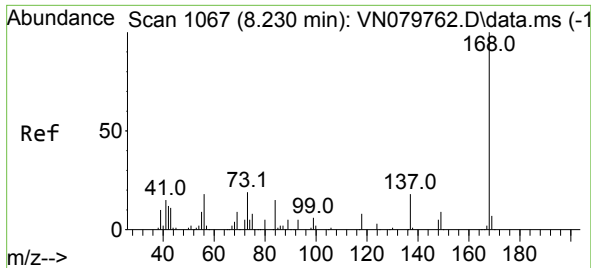
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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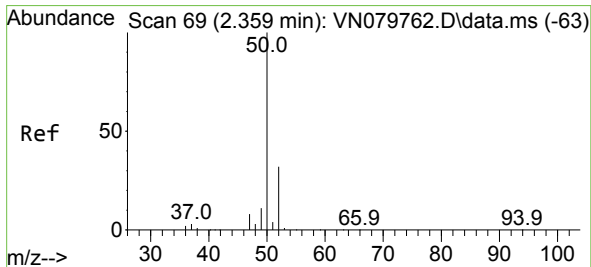
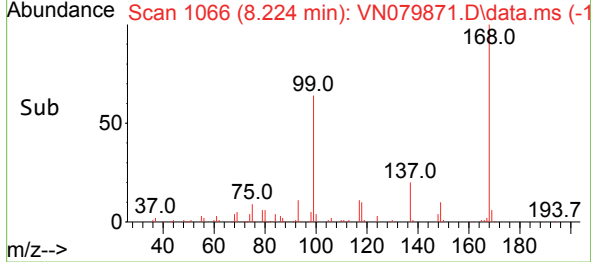
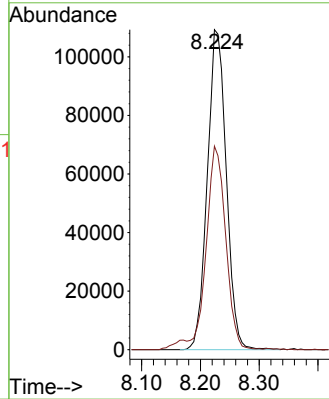
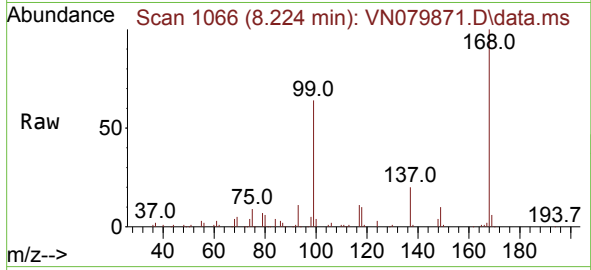




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.005 min
Lab File: VN079871.D
Acq: 04 Nov 2023 02:46

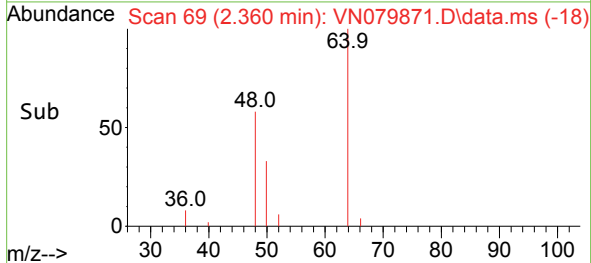
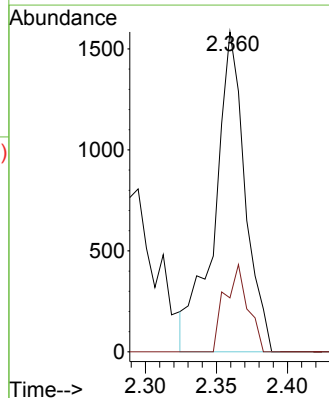
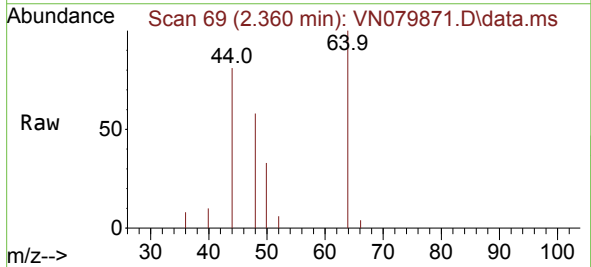
Instrument :
MSVOA_N
ClientSampleId :

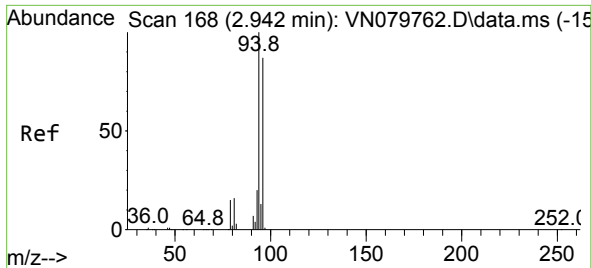
Tgt Ion:168 Resp: 244616
Ion Ratio Lower Upper
168 100
99 63.5 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.360 min Scan# 69
Delta R.T. 0.001 min
Lab File: VN079871.D
Acq: 04 Nov 2023 02:46

Tgt Ion: 50 Resp: 2359
Ion Ratio Lower Upper
50 100
52 16.9 26.5 39.7#

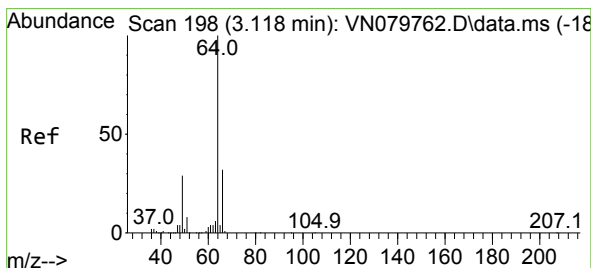
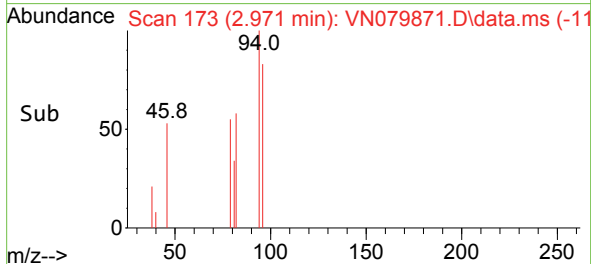
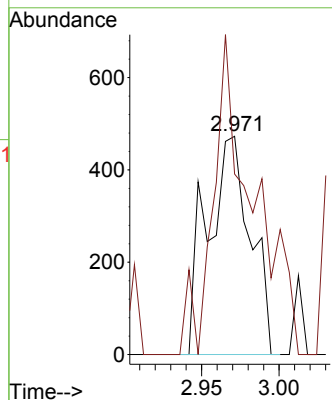
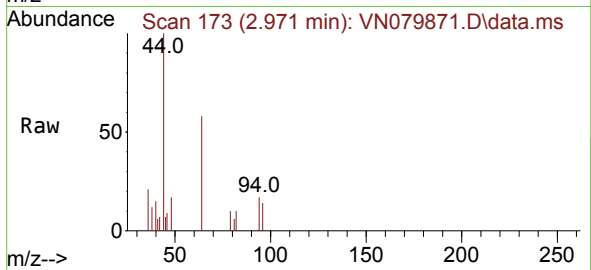




#5
Bromomethane
Concen: 0.389 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN079871.D
Acq: 04 Nov 2023 02:46

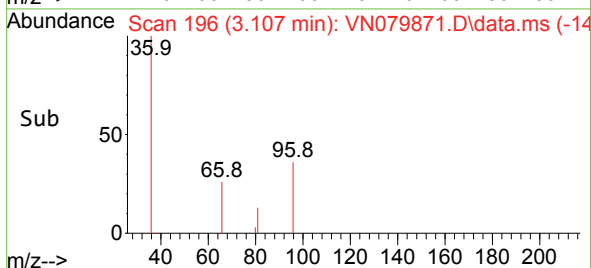
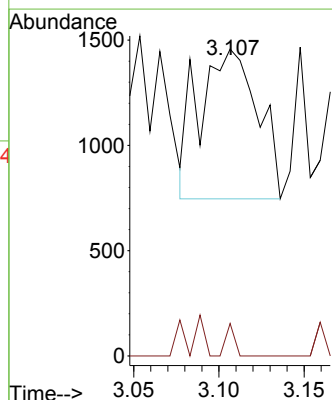
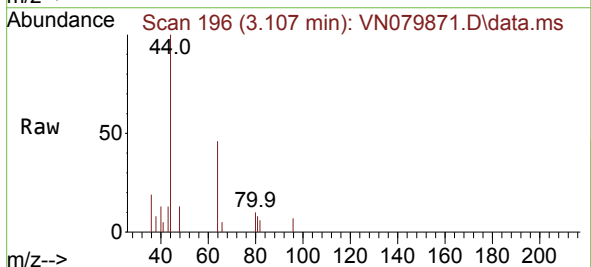
Instrument :
MSVOA_N
ClientSampleId :

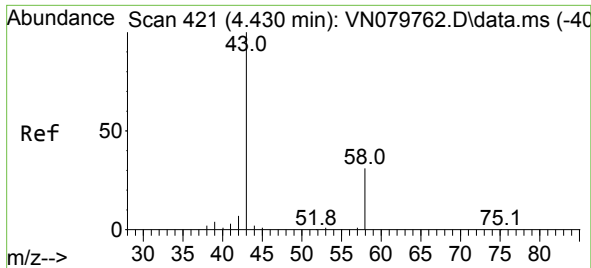
Tgt Ion: 94 Resp: 911
Ion Ratio Lower Upper
94 100
96 82.7 73.1 109.7



#6
Chloroethane
Concen: 0.559 ug/l
RT: 3.107 min Scan# 196
Delta R.T. -0.012 min
Lab File: VN079871.D
Acq: 04 Nov 2023 02:46

Tgt Ion: 64 Resp: 1704
Ion Ratio Lower Upper
64 100
66 21.6 25.4 38.2#





#16

Acetone

Concen: 2.777 ug/l

RT: 4.442 min Scan# 41

Delta R.T. 0.012 min

Lab File: VN079871.D

Acq: 04 Nov 2023 02:46

Instrument :

MSVOA_N

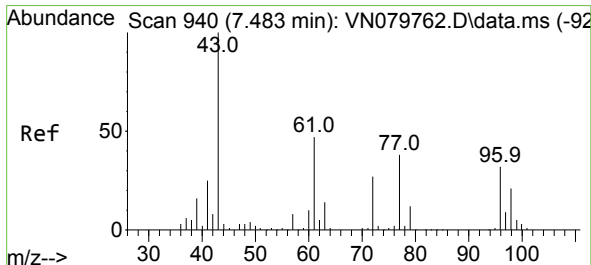
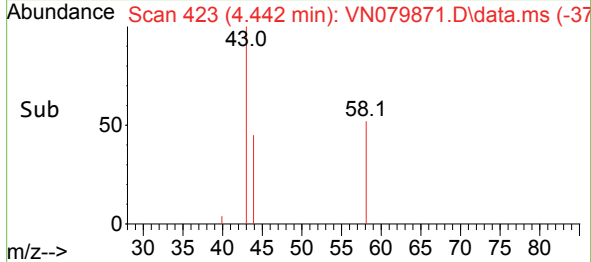
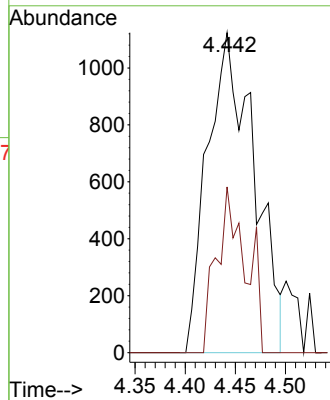
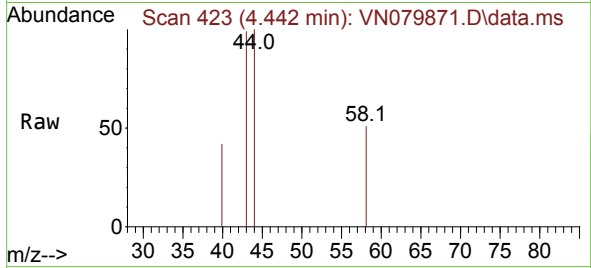
ClientSampleId :

Tgt Ion: 43 Resp: 3635

Ion Ratio Lower Upper

43 100

58 51.8 28.0 42.0#



#25

2-Butanone

Concen: 0.257 ug/l

RT: 7.500 min Scan# 943

Delta R.T. 0.012 min

Lab File: VN079871.D

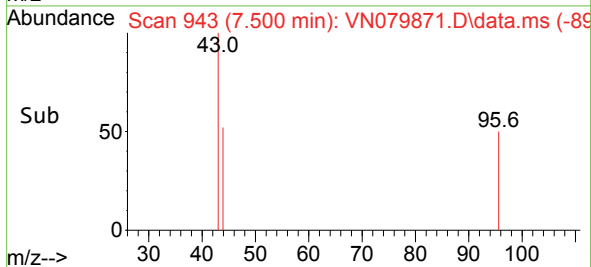
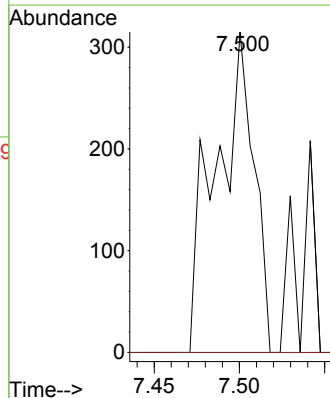
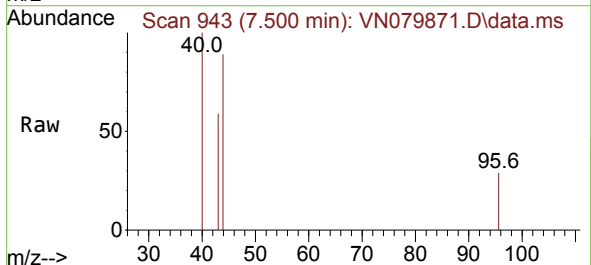
Acq: 04 Nov 2023 02:46

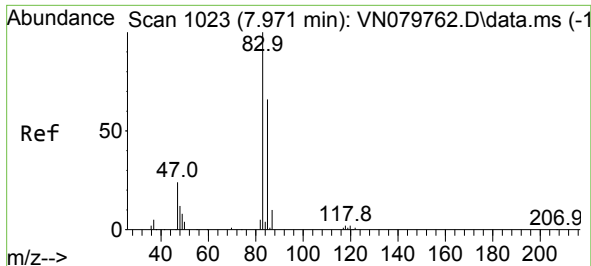
Tgt Ion: 43 Resp: 492

Ion Ratio Lower Upper

43 100

72 0.0 30.2 45.2#

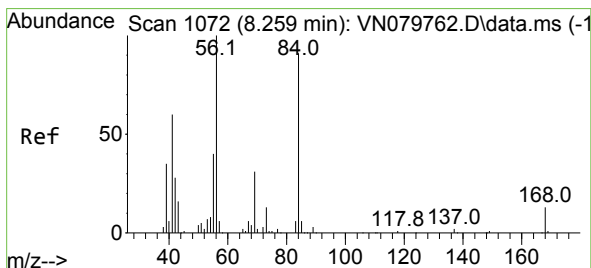
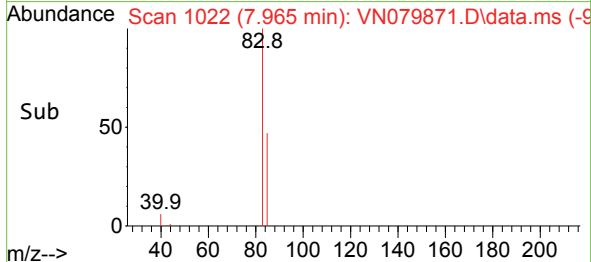
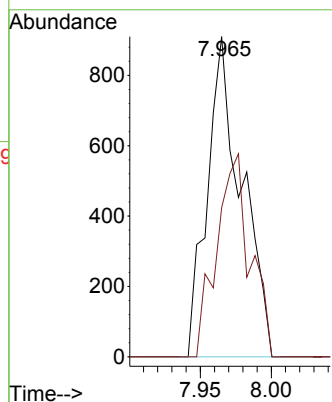
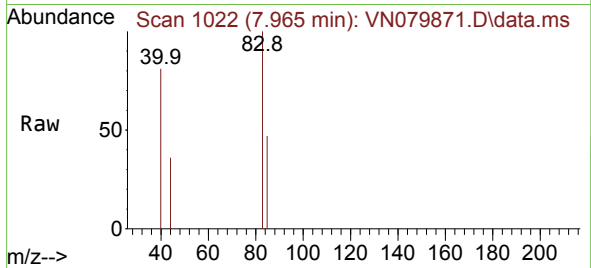




#30
Chloroform
Concen: 0.249 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.006 min
Lab File: VN079871.D
Acq: 04 Nov 2023 02:46

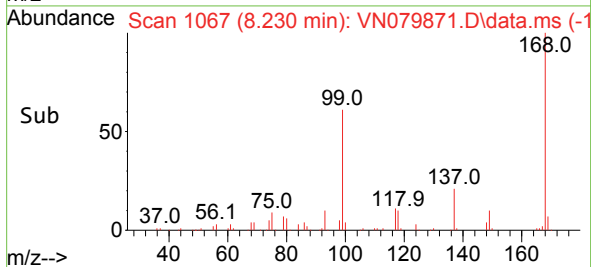
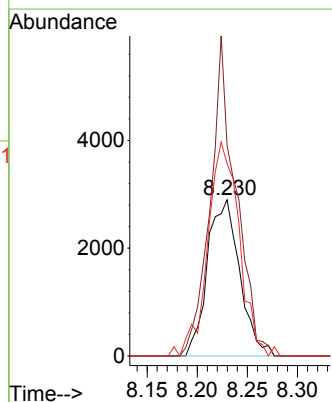
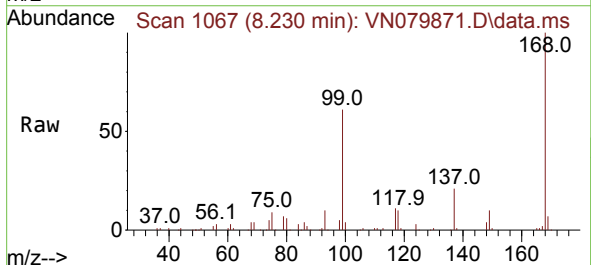
Instrument :
MSVOA_N
ClientSampleId :

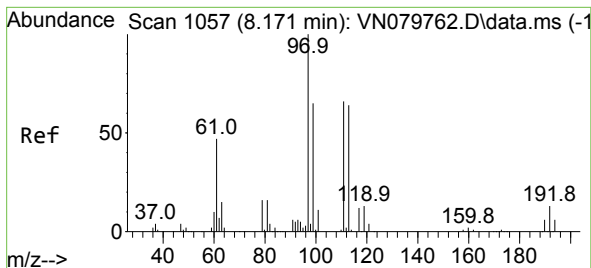
Tgt Ion: 83 Resp: 1535
Ion Ratio Lower Upper
83 100
85 46.6 55.4 83.0#



#31
Cyclohexane
Concen: 1.314 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.029 min
Lab File: VN079871.D
Acq: 04 Nov 2023 02:46

Tgt Ion: 56 Resp: 6469
Ion Ratio Lower Upper
56 100
69 134.9 26.8 40.2#
84 123.2 81.8 122.6#





#32

1,1,1-Trichloroethane

Concen: 2.332 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.000 min

Lab File: VN079871.D

Acq: 04 Nov 2023 02:46

Instrument :

MSVOA_N

ClientSampleId :

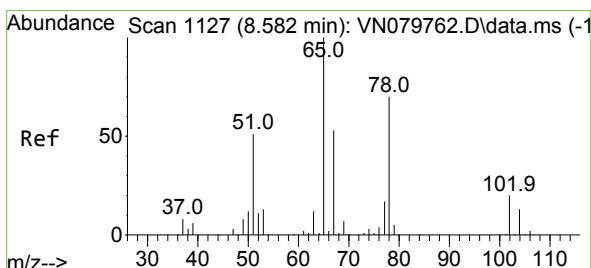
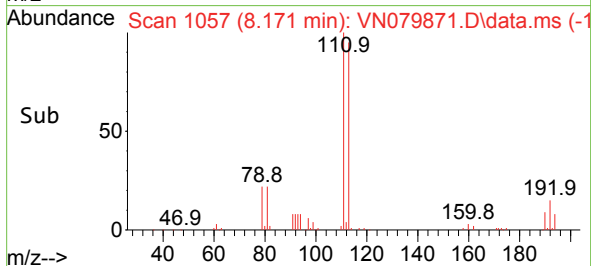
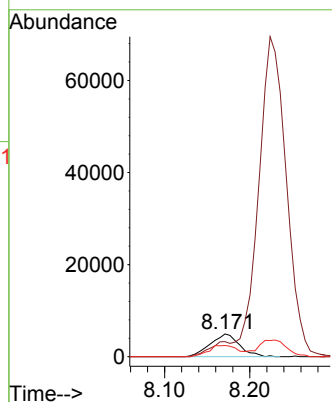
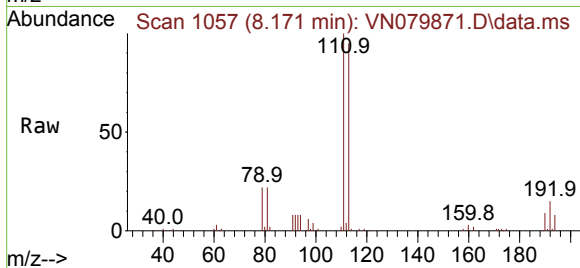
Tgt Ion: 97 Resp: 11723

Ion Ratio Lower Upper

97 100

99 48.4 50.3 75.5#

61 50.1 34.7 52.1



#33

1,2-Dichloroethane-d4

Concen: 57.294 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN079871.D

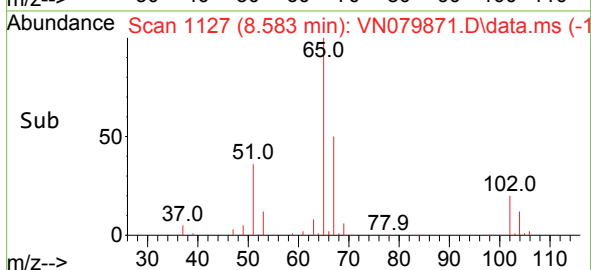
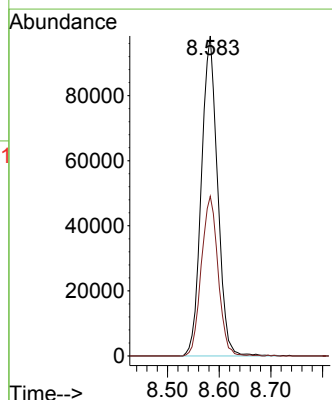
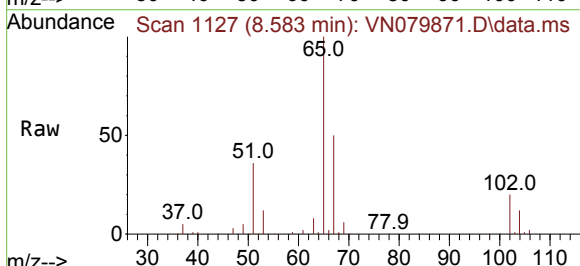
Acq: 04 Nov 2023 02:46

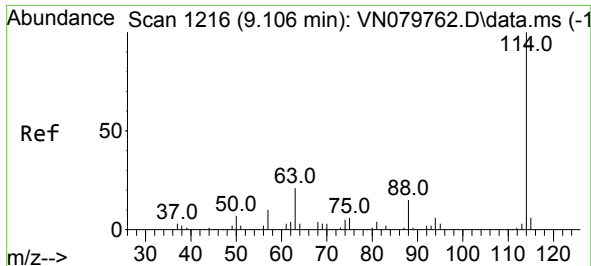
Tgt Ion: 65 Resp: 213523

Ion Ratio Lower Upper

65 100

67 51.4 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: VN079871.D

Acq: 04 Nov 2023 02:46

Instrument :

MSVOA_N

ClientSampleId :

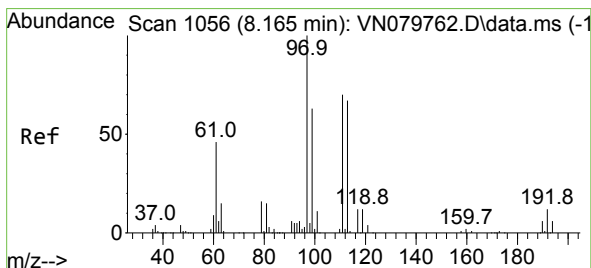
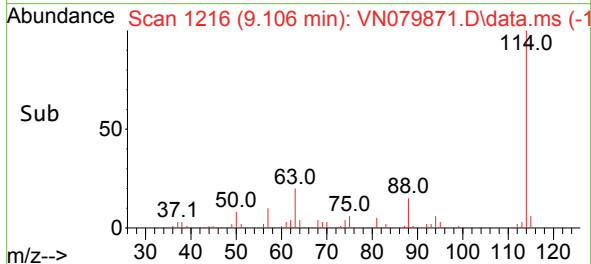
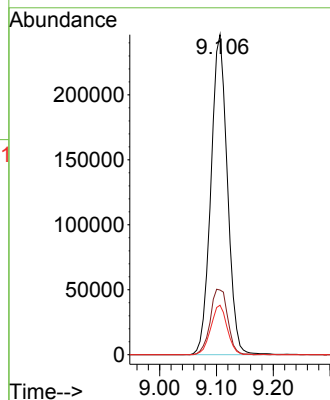
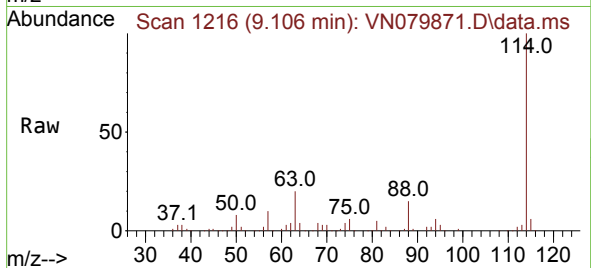
Tgt Ion:114 Resp: 494033

Ion Ratio Lower Upper

114 100

63 20.2 0.0 36.4

88 15.5 0.0 30.6



#35

Dibromofluoromethane

Concen: 51.055 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN079871.D

Acq: 04 Nov 2023 02:46

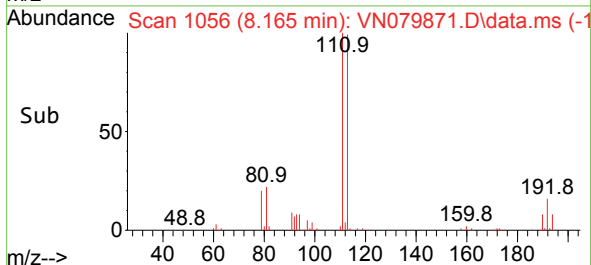
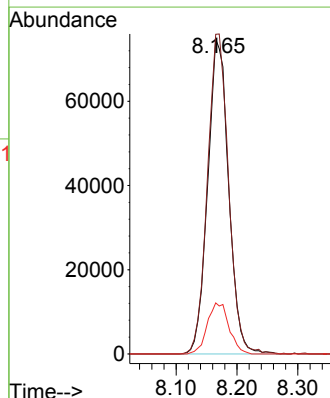
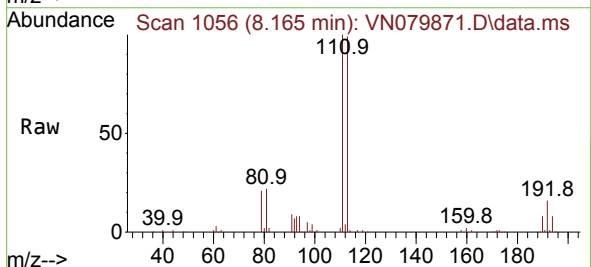
Tgt Ion:113 Resp: 178517

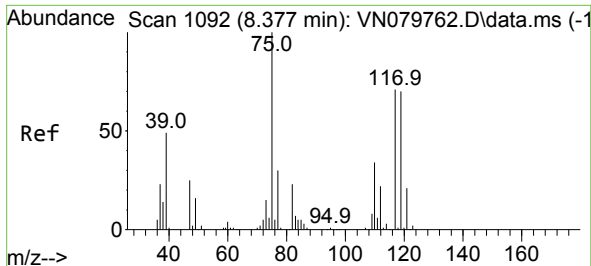
Ion Ratio Lower Upper

113 100

111 102.7 82.6 123.8

192 16.8 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.517 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

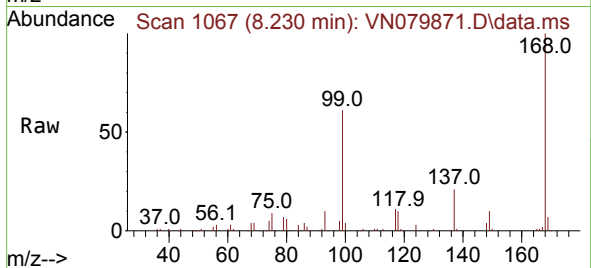
Lab File: VN079871.D

Acq: 04 Nov 2023 02:46

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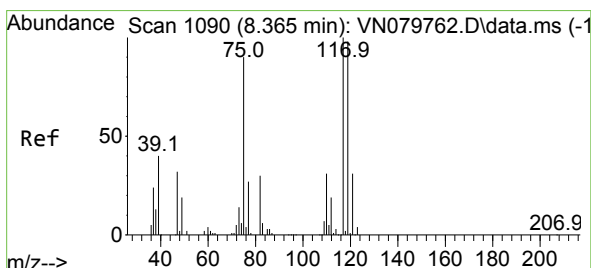
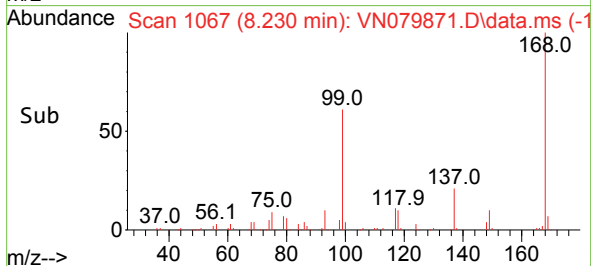
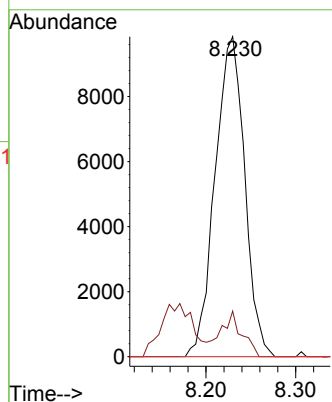
Tgt Ion: 75 Resp: 22549

Ion Ratio Lower Upper

75 100

110 10.2 19.1 57.3#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 0.526 ug/l

RT: 8.353 min Scan# 1088

Delta R.T. -0.006 min

Lab File: VN079871.D

Acq: 04 Nov 2023 02:46

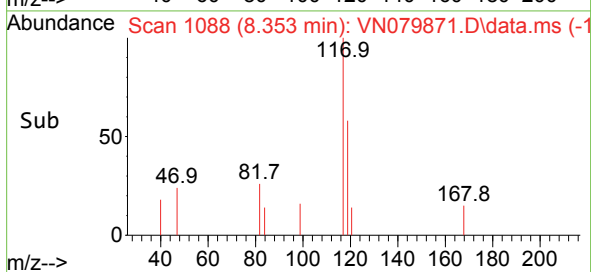
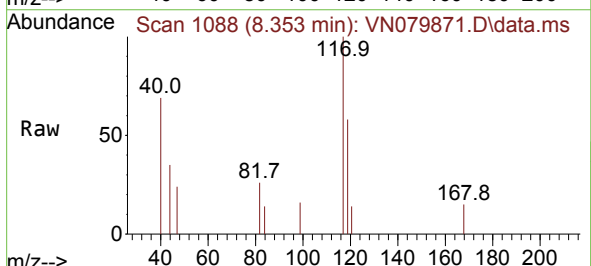
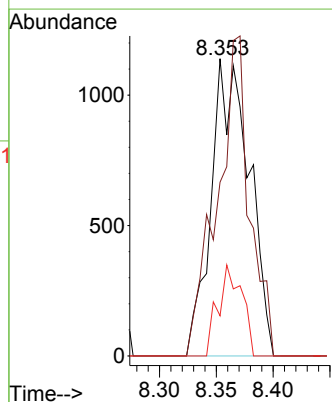
Tgt Ion: 117 Resp: 2646

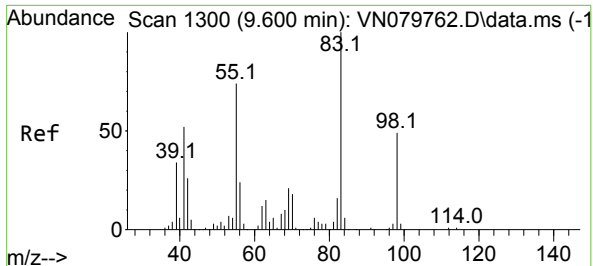
Ion Ratio Lower Upper

117 100

119 58.4 77.3 115.9#

121 13.5 23.3 34.9#





#39

Methylcyclohexane

Concen: 1.793 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. -0.253 min

Lab File: VN079871.D

Acq: 04 Nov 2023 02:46

Instrument :

MSVOA_N

ClientSampleId :

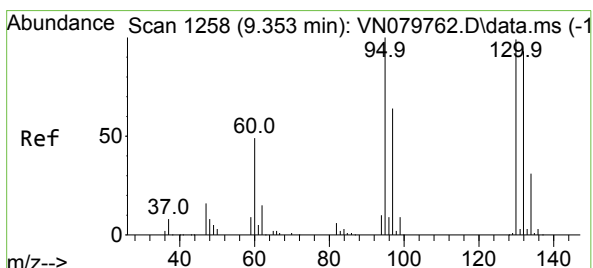
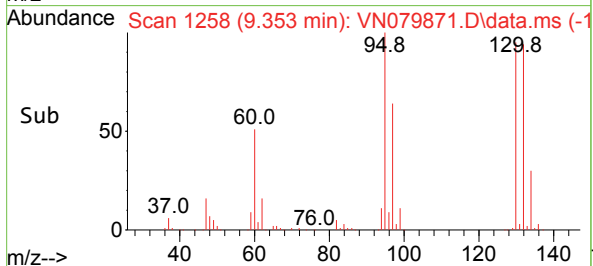
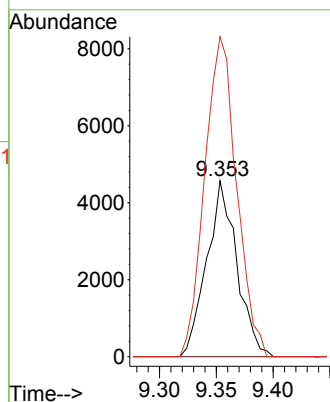
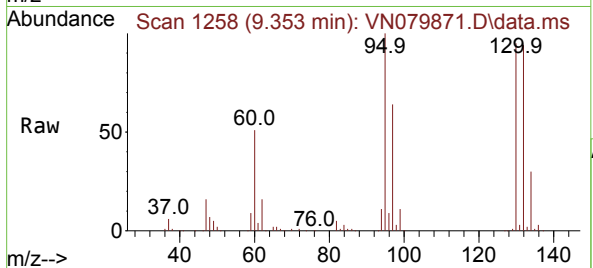
Tgt Ion: 83 Resp: 8422

Ion Ratio Lower Upper

83 100

55 0.0 49.1 73.7#

98 181.9 40.6 61.0#



#44

Trichloroethene

Concen: 167.075 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. 0.000 min

Lab File: VN079871.D

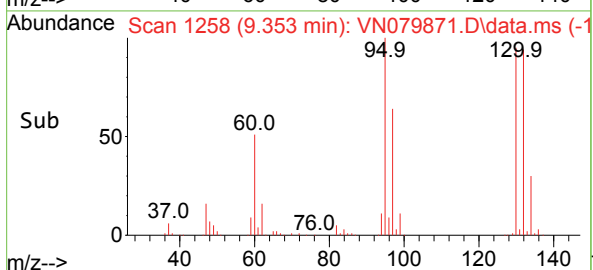
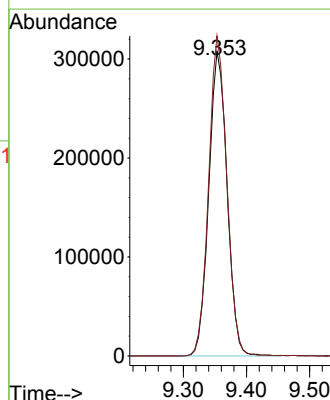
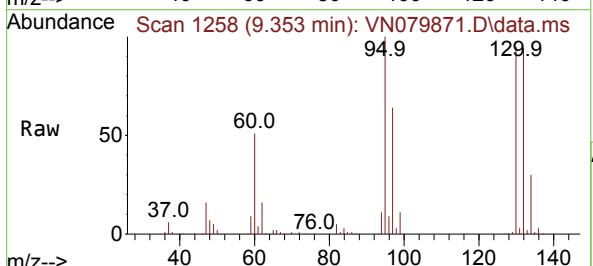
Acq: 04 Nov 2023 02:46

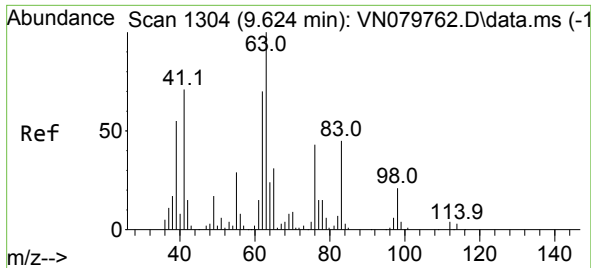
Tgt Ion:130 Resp: 619941

Ion Ratio Lower Upper

130 100

95 105.1 0.0 204.6





#45

1,2-Dichloropropane

Concen: 0.598 ug/l

RT: 9.347 min Scan# 11

Delta R.T. -0.276 min

Lab File: VN079871.D

Acq: 04 Nov 2023 02:46

Instrument :

MSVOA_N

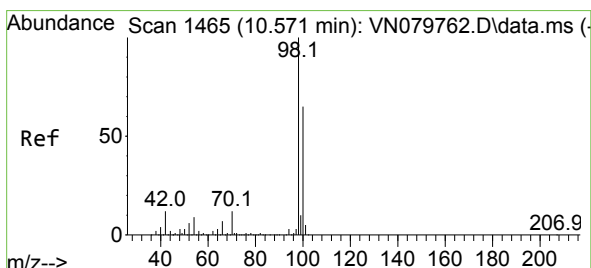
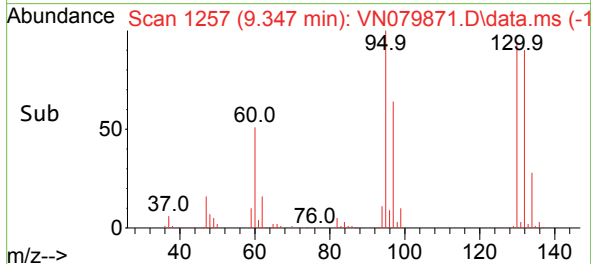
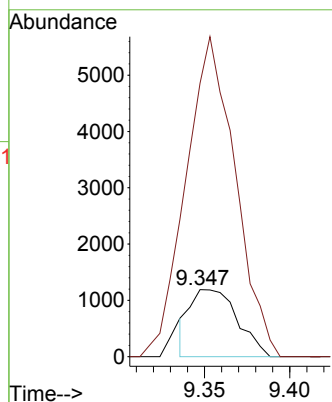
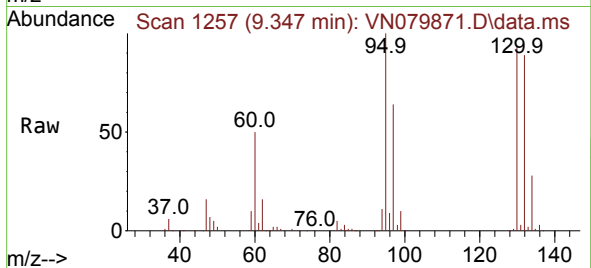
ClientSampleId :

Tgt Ion: 63 Resp: 2287

Ion Ratio Lower Upper

63 100

65 407.9 23.9 35.9#



#50

Toluene-d8

Concen: 48.783 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN079871.D

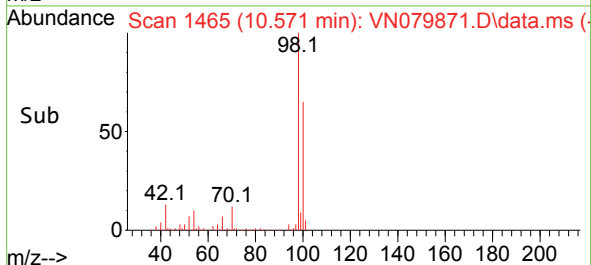
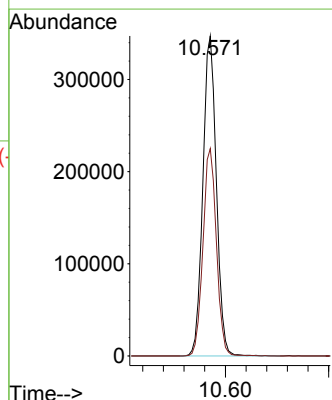
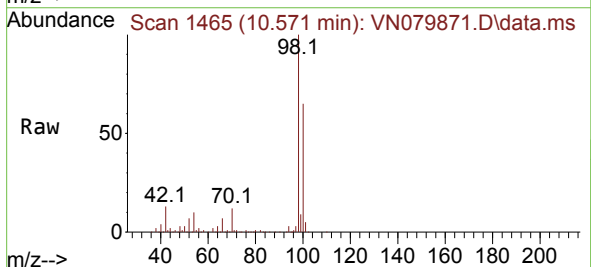
Acq: 04 Nov 2023 02:46

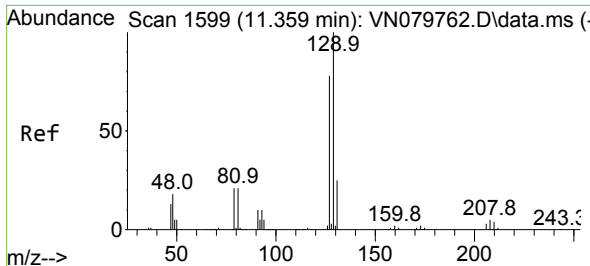
Tgt Ion: 98 Resp: 627940

Ion Ratio Lower Upper

98 100

100 64.6 52.0 78.0

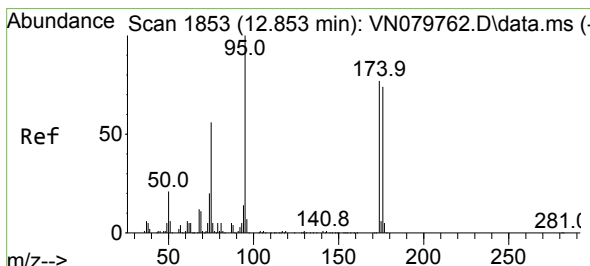
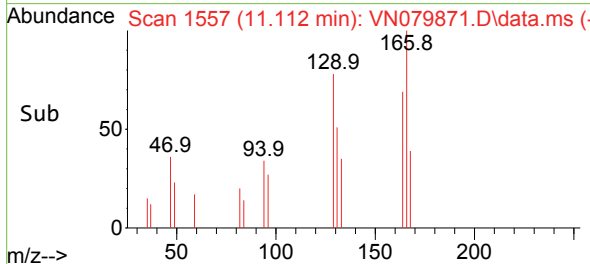
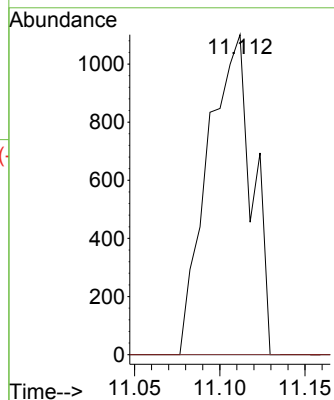
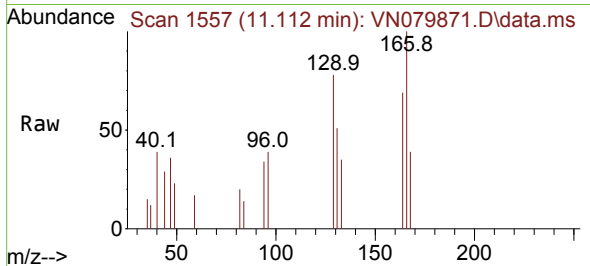




#60
Dibromochloromethane
Concen: 0.524 ug/l
RT: 11.112 min Scan# 11
Delta R.T. -0.253 min
Lab File: VN079871.D
Acq: 04 Nov 2023 02:46

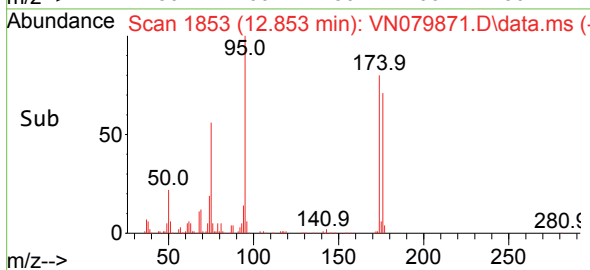
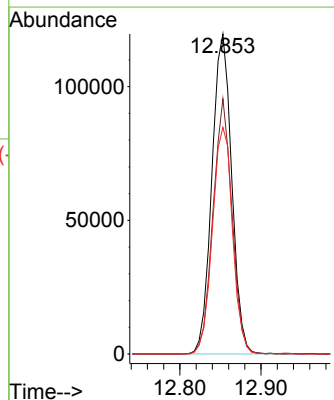
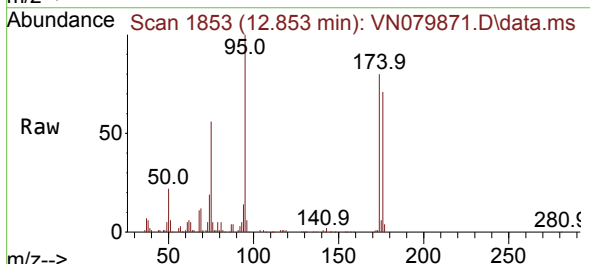
Instrument :
MSVOA_N
ClientSampleId :

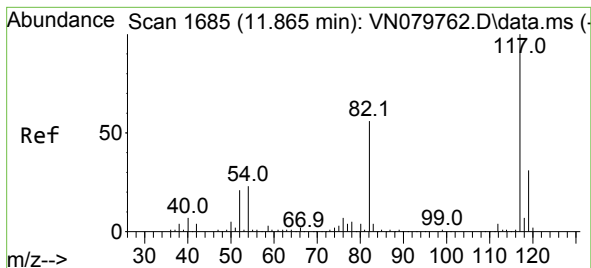
Tgt Ion:129 Resp: 1999
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 47.467 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN079871.D
Acq: 04 Nov 2023 02:46

Tgt Ion: 95 Resp: 202639
Ion Ratio Lower Upper
95 100
174 76.7 0.0 143.8
176 71.8 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.871 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN079871.D

Acq: 04 Nov 2023 02:46

Instrument :

MSVOA_N

ClientSampleId :

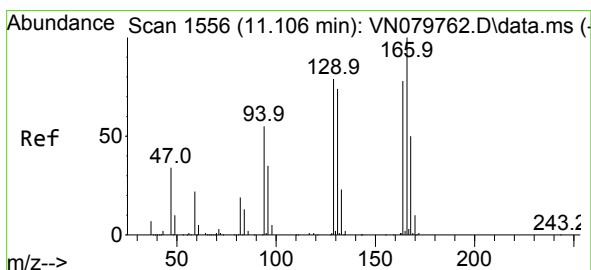
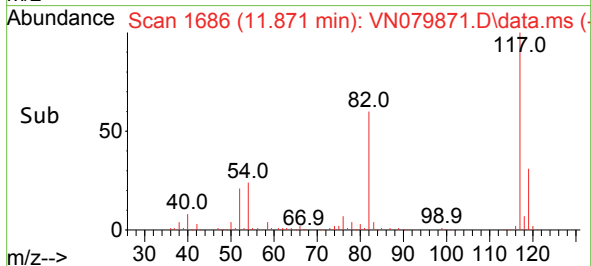
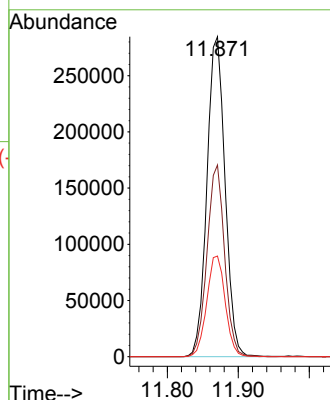
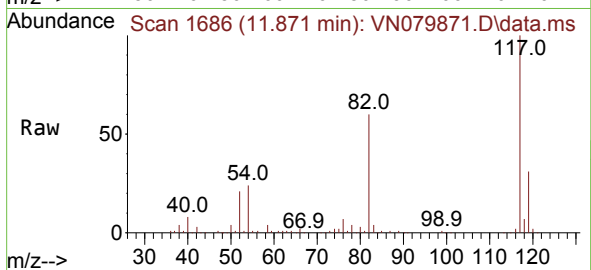
Tgt Ion:117 Resp: 504979

Ion Ratio Lower Upper

117 100

82 59.9 44.0 66.0

119 31.4 25.6 38.4



#64

Tetrachloroethene

Concen: 0.660 ug/l

RT: 11.106 min Scan# 1556

Delta R.T. 0.000 min

Lab File: VN079871.D

Acq: 04 Nov 2023 02:46

Tgt Ion:164 Resp: 2160

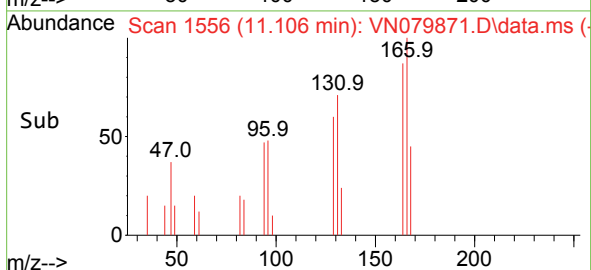
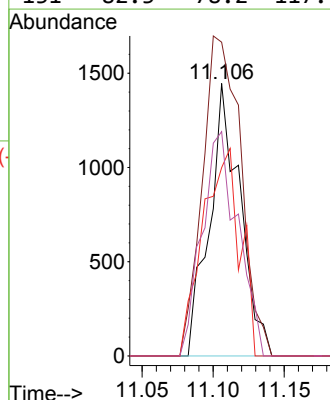
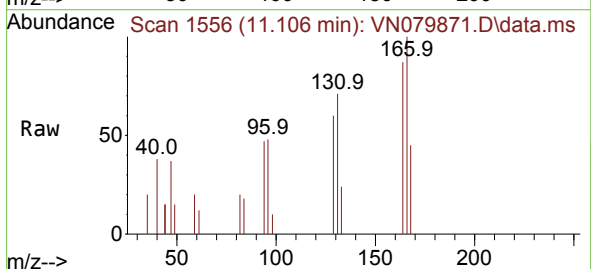
Ion Ratio Lower Upper

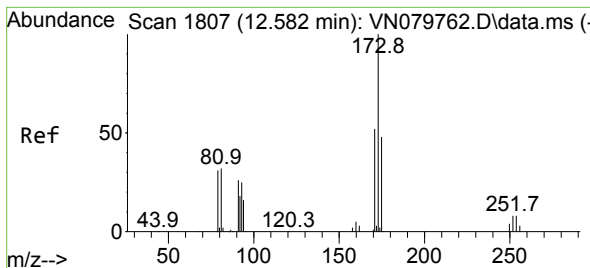
164 100

166 115.1 101.4 152.0

129 69.1 82.4 123.6#

131 82.3 78.2 117.4





#71

Bromoform

Concen: 0.508 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.265 min

Lab File: VN079871.D

Acq: 04 Nov 2023 02:46

Instrument :

MSVOA_N

ClientSampleId :

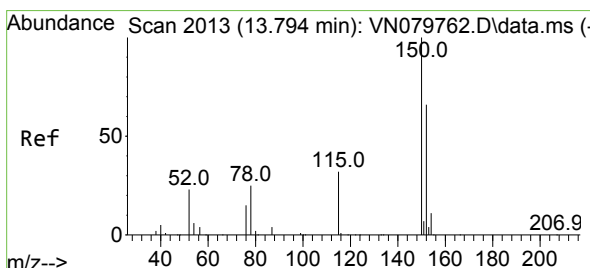
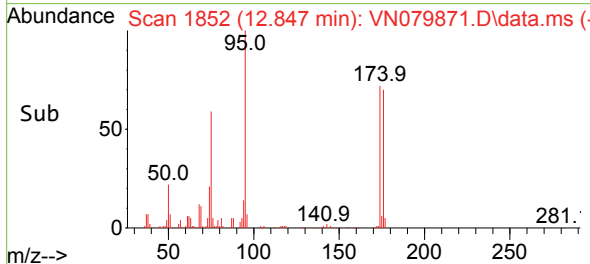
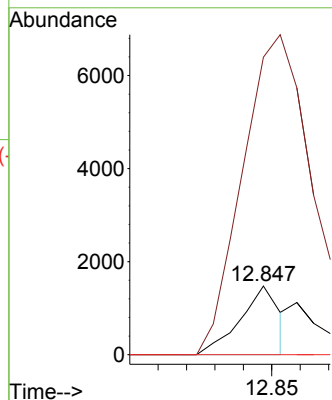
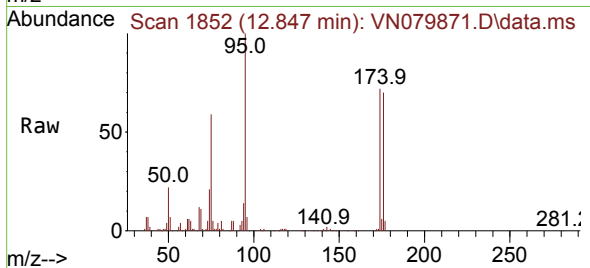
Tgt Ion:173 Resp: 1424

Ion Ratio Lower Upper

173 100

175 659.2 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.000 min

Lab File: VN079871.D

Acq: 04 Nov 2023 02:46

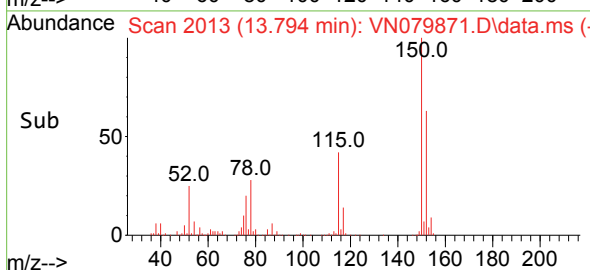
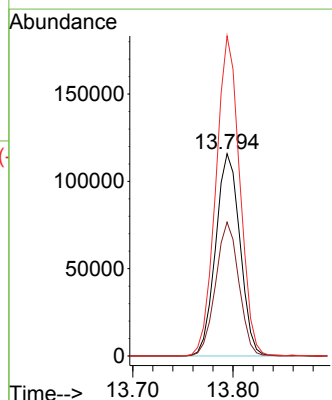
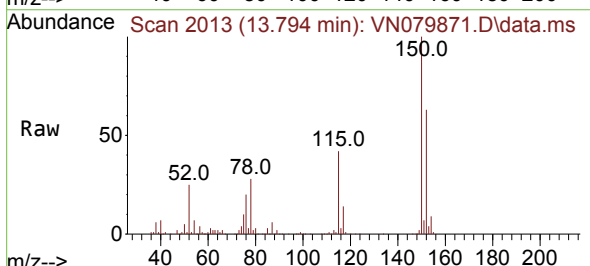
Tgt Ion:152 Resp: 194808

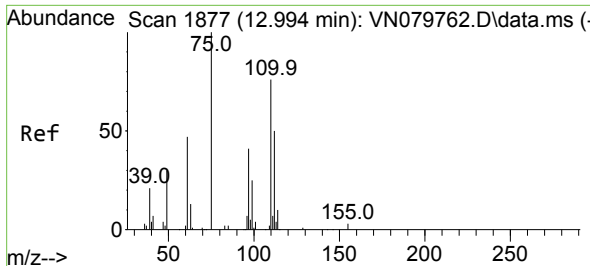
Ion Ratio Lower Upper

152 100

115 63.3 32.3 96.8

150 155.6 0.0 355.8

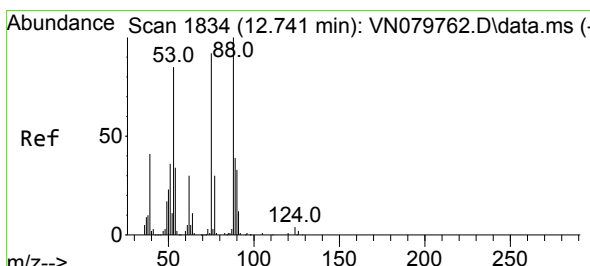
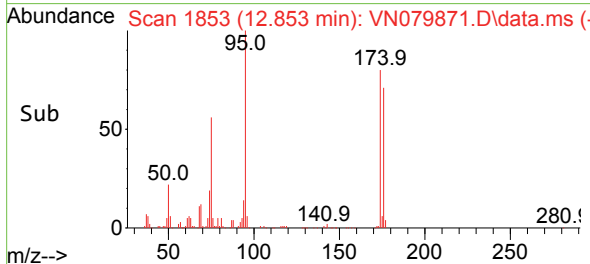
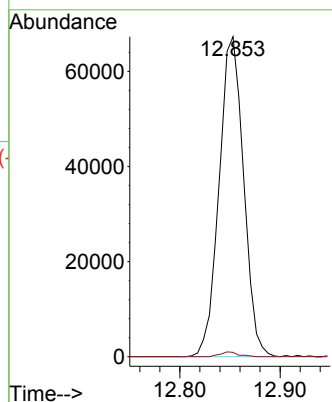
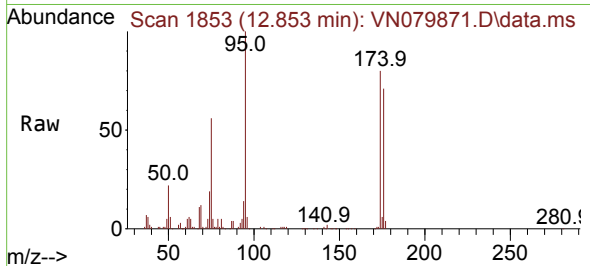




#76
1,2,3-Trichloropropane
Concen: 24.963 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN079871.D
Acq: 04 Nov 2023 02:46

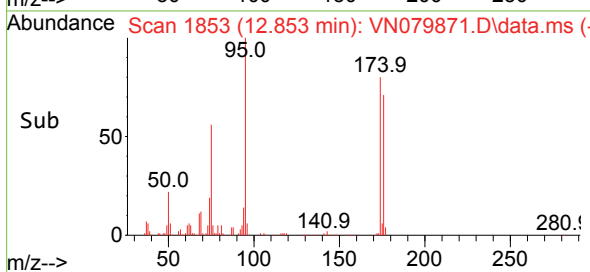
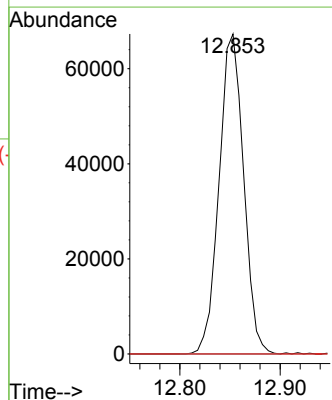
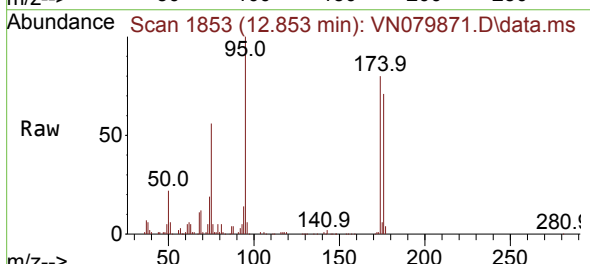
Instrument :
MSVOA_N
ClientSampleId :

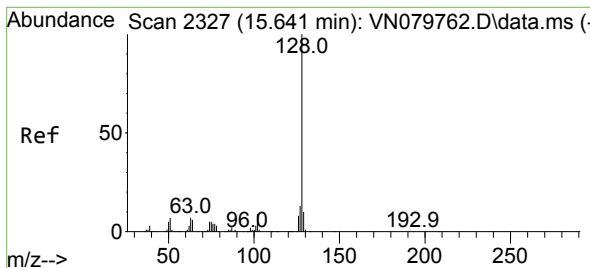
Tgt Ion: 75 Resp: 114170
Ion Ratio Lower Upper
75 100
77 1.1 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 67.919 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.118 min
Lab File: VN079871.D
Acq: 04 Nov 2023 02:46

Tgt Ion: 75 Resp: 114170
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#





#95

Naphthalene

Concen: 0.292 ug/l

RT: 15.647 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN079871.D

Acq: 04 Nov 2023 02:46

Instrument :

MSVOA_N

ClientSampleId :

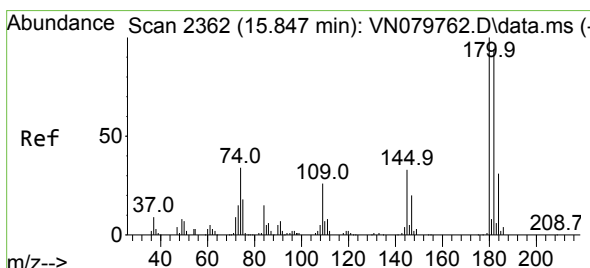
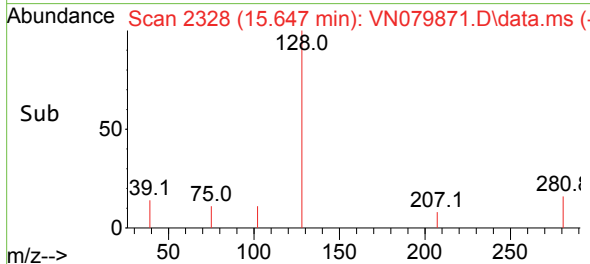
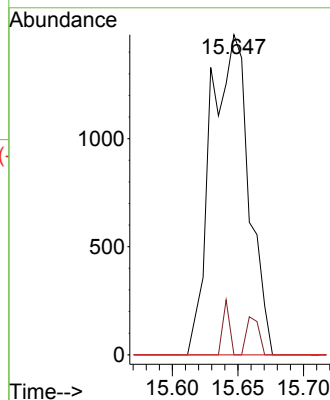
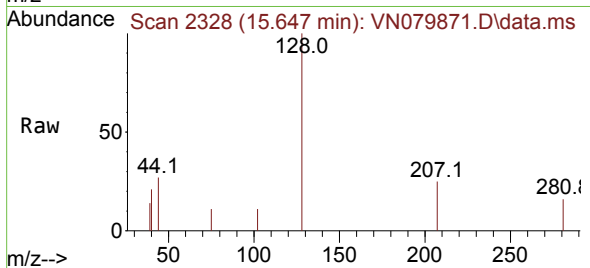
Tgt Ion:128 Resp: 2992

Ion Ratio Lower Upper

128 100

127 3.0 10.0 15.0#

129 0.0 8.7 13.1#



#96

1,2,3-Trichlorobenzene

Concen: 0.202 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.006 min

Lab File: VN079871.D

Acq: 04 Nov 2023 02:46

Tgt Ion:180 Resp: 597

Ion Ratio Lower Upper

180 100

182 125.0 46.2 138.6

145 34.8 17.5 52.6

