

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102423\
 Data File : VN079667.D
 Acq On : 24 Oct 2023 19:13
 Operator : JC\MD
 Sample : 05029-07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 231010082-44

Quant Time: Oct 25 02:07:33 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N100523W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 06 03:34:49 2023
 Response via : Initial Calibration

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

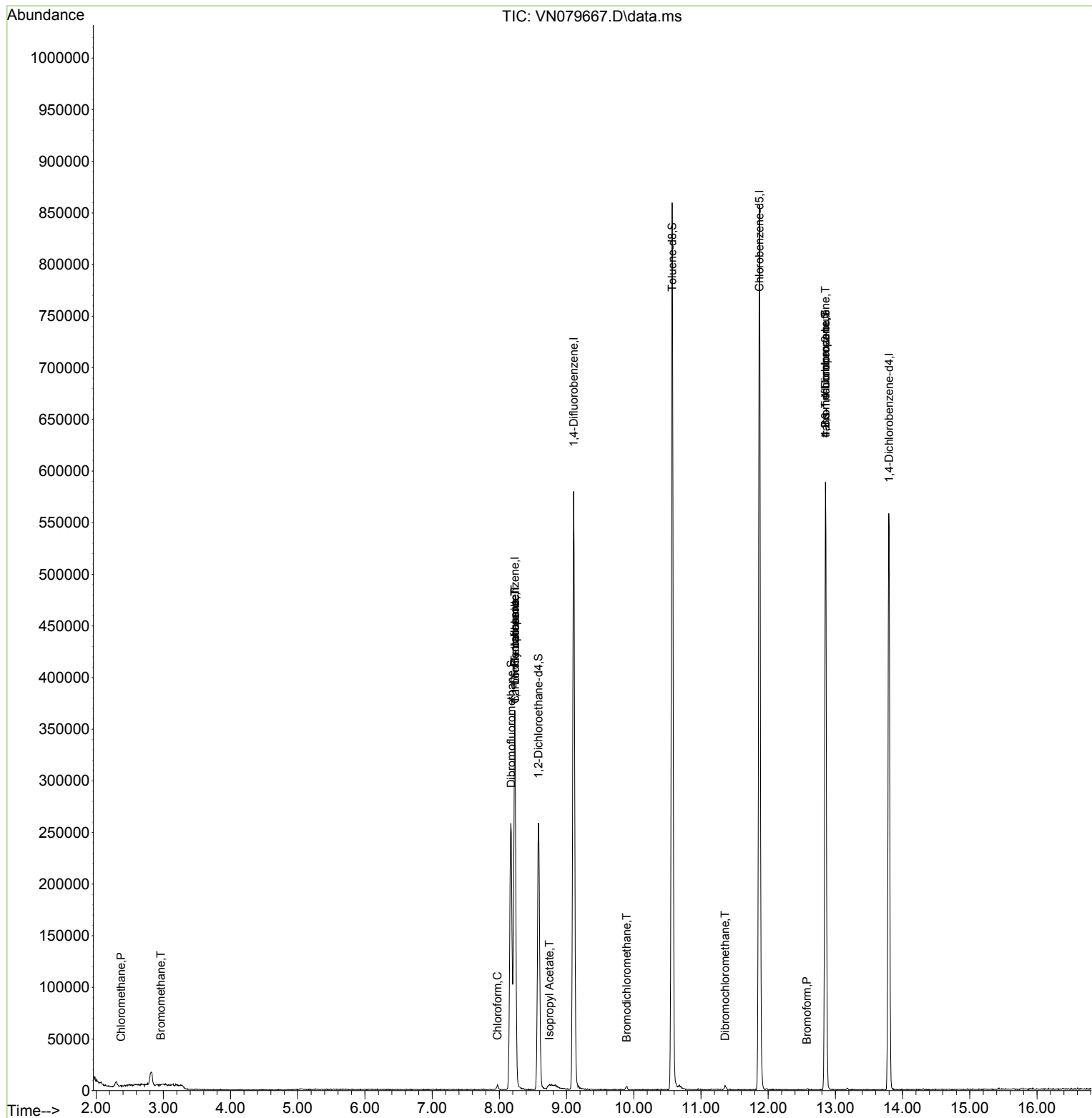
Internal Standards						
1) Pentafluorobenzene	8.230	168	248637	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	479215	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	478867	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	148178	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	212595	52.734	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 105.460%	
35) Dibromofluoromethane	8.177	113	186779	54.236	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 108.480%	
50) Toluene-d8	10.571	98	580853	46.615	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 93.220%	
62) 4-Bromofluorobenzene	12.853	95	194372	48.606	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 97.220%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	943	0.212	ug/l #	79
5) Bromomethane	2.965	94	808	0.292	ug/l #	60
20) Methylene Chloride	5.294	84	190	Below Cal	#	52
30) Chloroform	7.971	83	3810	0.580	ug/l #	64
31) Cyclohexane	8.230	56	6496	1.136	ug/l #	36
36) 1,1-Dichloropropene	8.235	75	22546	4.362	ug/l #	48
38) Carbon Tetrachloride	8.235	117	26008	5.026	ug/l #	16
43) Isopropyl Acetate	8.747	43	3374	0.374	ug/l #	49
47) Bromodichloromethane	9.894	83	2546	0.473	ug/l #	71
60) Dibromochloromethane	11.359	129	2528	0.693	ug/l	95
71) Bromoform	12.576	173	574	0.201	ug/l #	99
75) 1,1,2,2-Tetrachloroethane	12.853	83	98	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.853	75	108360	25.363	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	108360	73.592	ug/l #	15

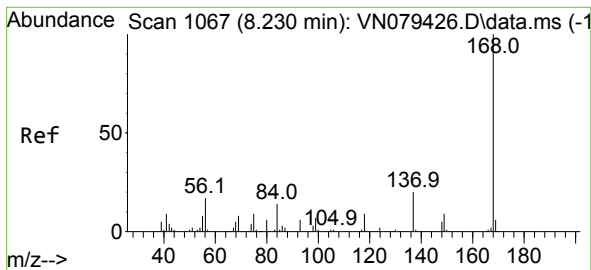
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Oct 06 03:34:49 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.000 min

Lab File: VN079667.D

Acq: 24 Oct 2023 19:13

Instrument :

MSVOA_N

ClientSampleId :

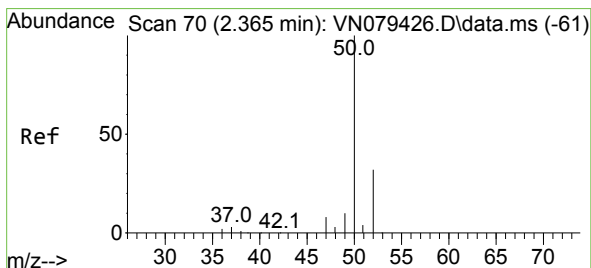
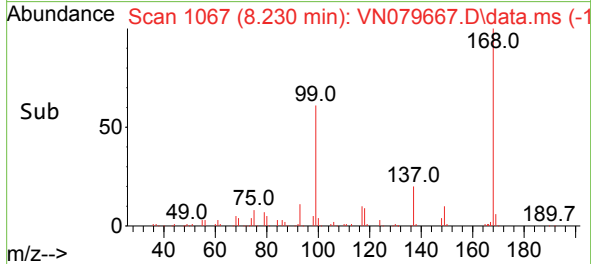
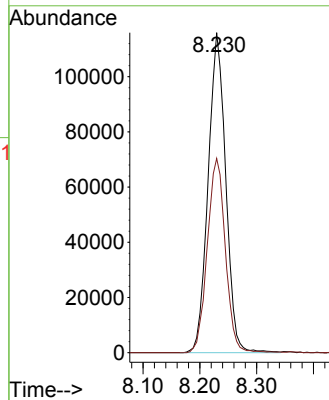
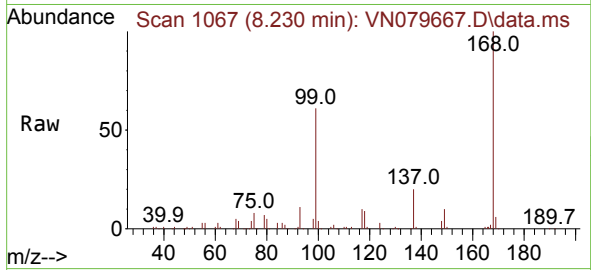
231010082-44

Tgt Ion:168 Resp: 248637

Ion Ratio Lower Upper

168 100

99 60.7 53.0 79.6



#3

Chloromethane

Concen: 0.212 ug/l

RT: 2.371 min Scan# 71

Delta R.T. 0.006 min

Lab File: VN079667.D

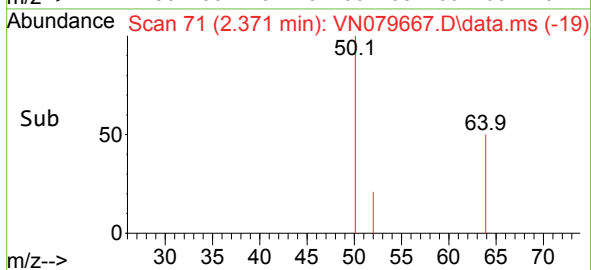
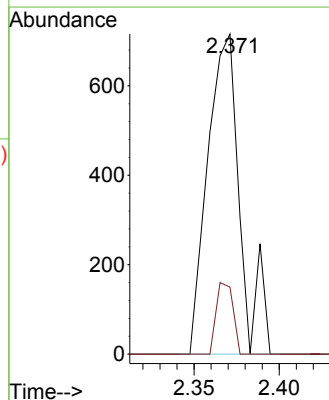
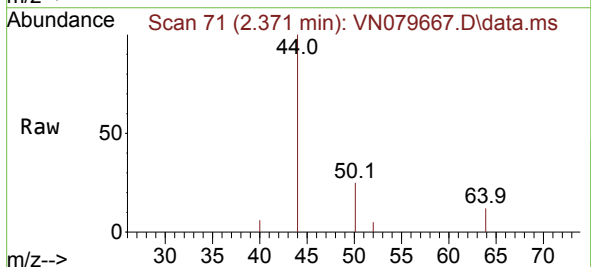
Acq: 24 Oct 2023 19:13

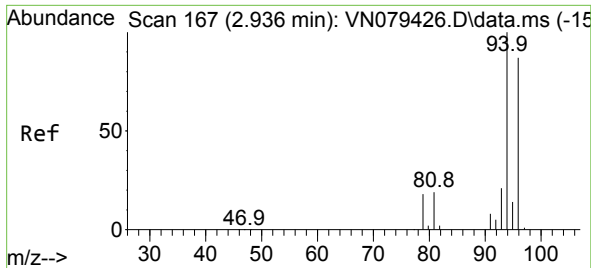
Tgt Ion: 50 Resp: 943

Ion Ratio Lower Upper

50 100

52 20.9 26.5 39.7#





#5

Bromomethane

Concen: 0.292 ug/l

RT: 2.965 min Scan# 1

Delta R.T. 0.029 min

Lab File: VN079667.D

Acq: 24 Oct 2023 19:13

Instrument :

MSVOA_N

ClientSampleId :

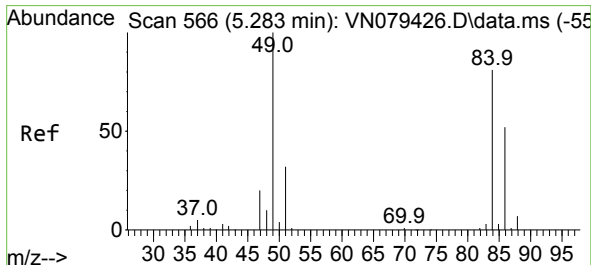
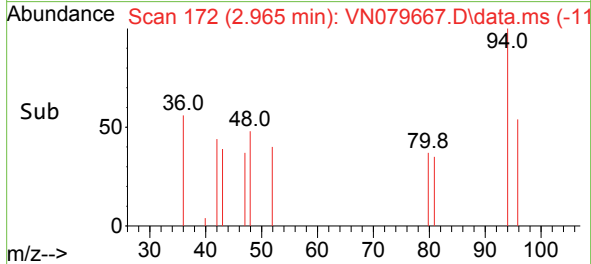
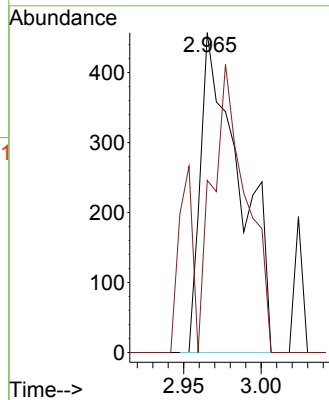
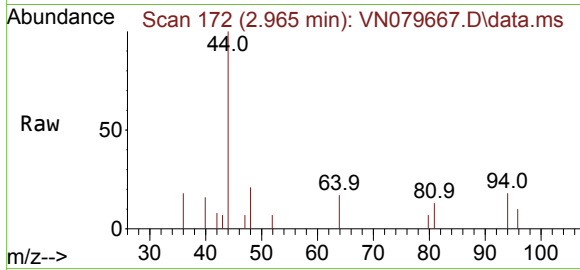
231010082-44

Tgt Ion: 94 Resp: 808

Ion Ratio Lower Upper

94 100

96 53.8 73.1 109.7#



#20

Methylene Chloride

Concen: Below Cal

RT: 5.294 min Scan# 568

Delta R.T. 0.011 min

Lab File: VN079667.D

Acq: 24 Oct 2023 19:13

Tgt Ion: 84 Resp: 190

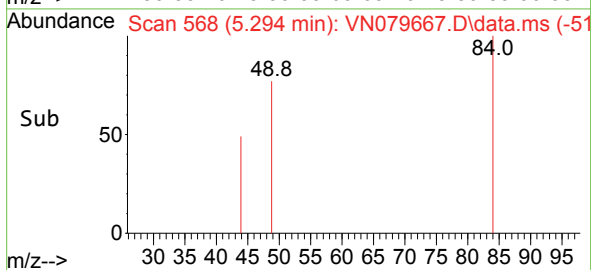
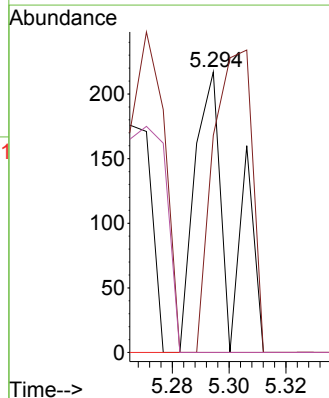
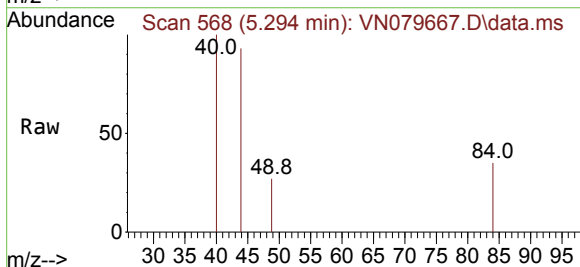
Ion Ratio Lower Upper

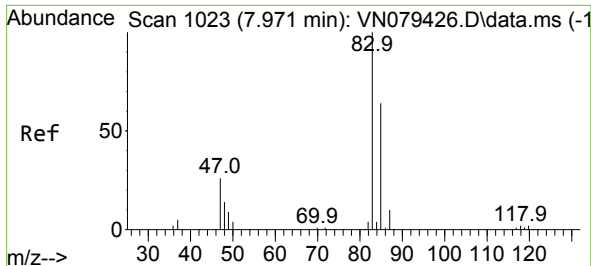
84 100

49 77.4 79.7 119.5#

51 0.0 25.2 37.8#

86 0.0 53.3 79.9#





#30

Chloroform

Concen: 0.580 ug/l

RT: 7.971 min Scan# 1067

Delta R.T. -0.000 min

Lab File: VN079667.D

Acq: 24 Oct 2023 19:13

Instrument :

MSVOA_N

ClientSampleId :

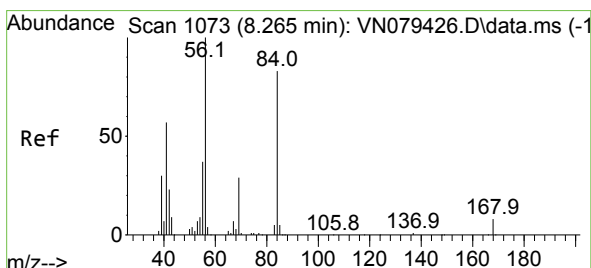
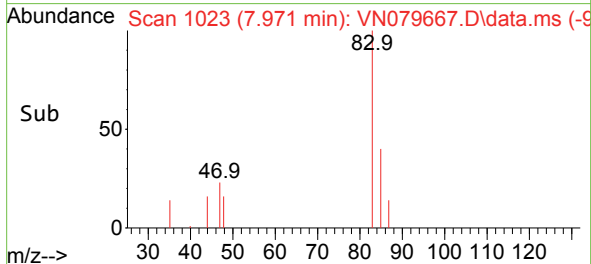
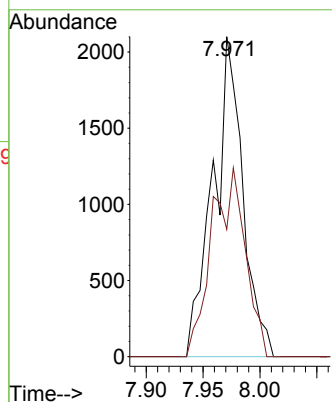
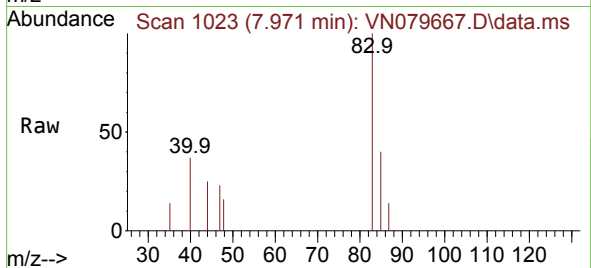
231010082-44

Tgt Ion: 83 Resp: 3810

Ion Ratio Lower Upper

83 100

85 39.8 55.4 83.0#



#31

Cyclohexane

Concen: 1.136 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.035 min

Lab File: VN079667.D

Acq: 24 Oct 2023 19:13

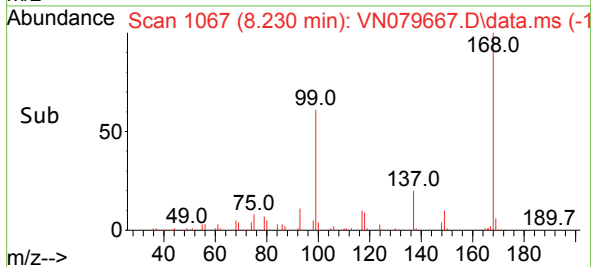
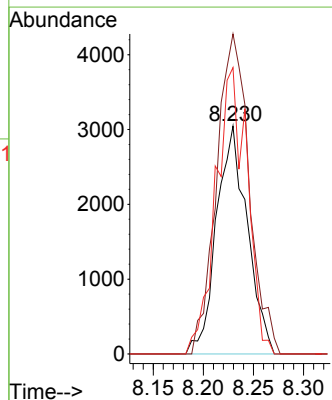
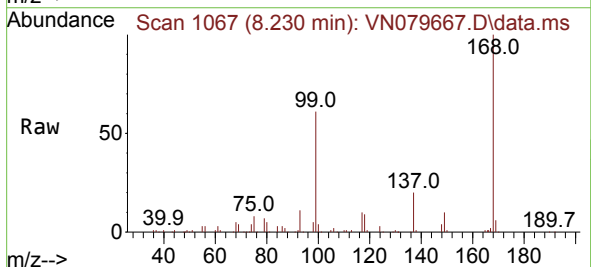
Tgt Ion: 56 Resp: 6496

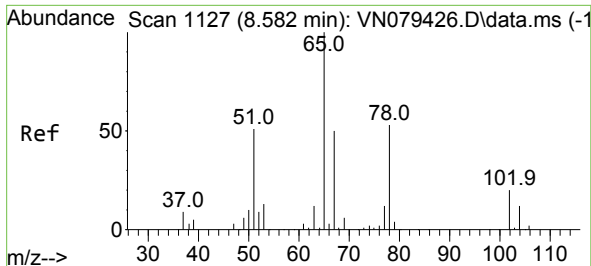
Ion Ratio Lower Upper

56 100

69 140.4 26.8 40.2#

84 125.7 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 52.734 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN079667.D

Acq: 24 Oct 2023 19:13

Instrument :

MSVOA_N

ClientSampleId :

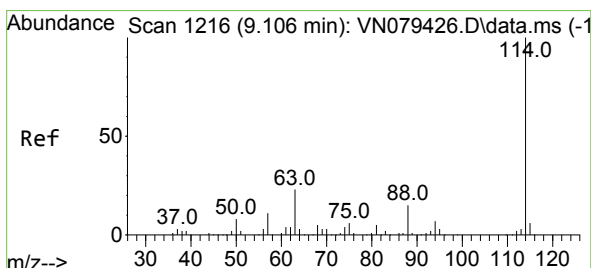
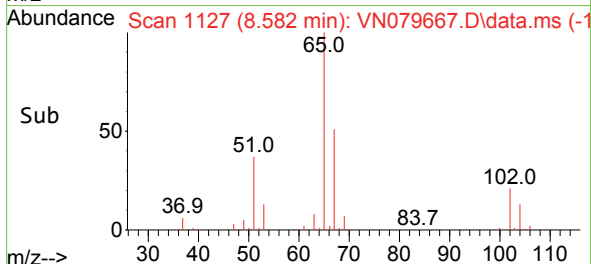
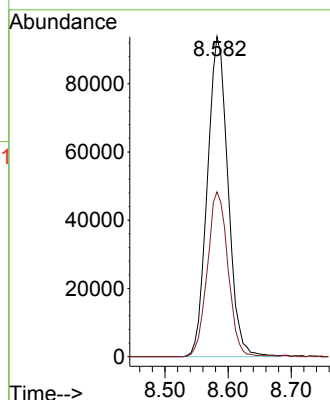
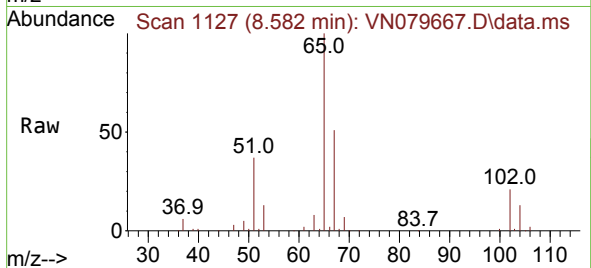
231010082-44

Tgt Ion: 65 Resp: 212595

Ion Ratio Lower Upper

65 100

67 51.8 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN079667.D

Acq: 24 Oct 2023 19:13

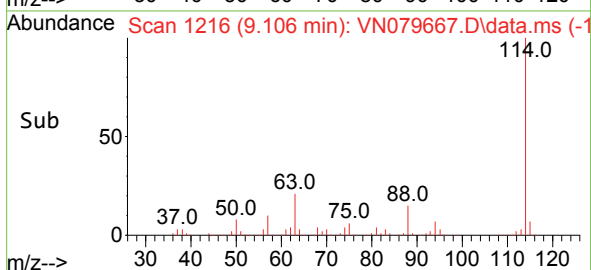
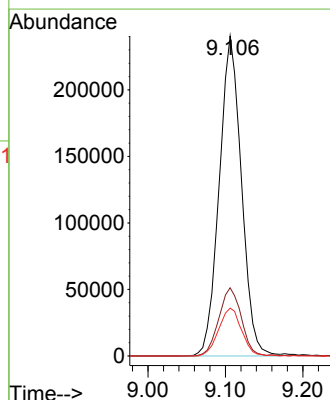
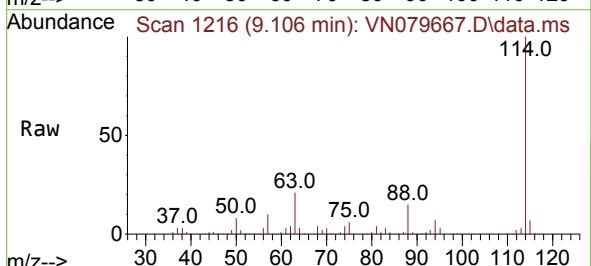
Tgt Ion: 114 Resp: 479215

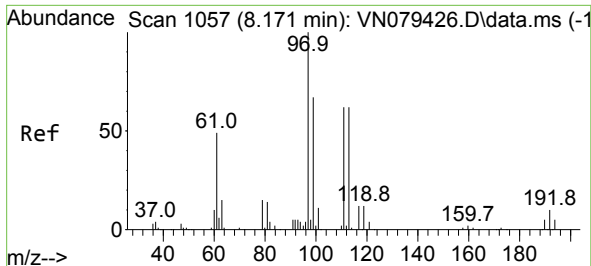
Ion Ratio Lower Upper

114 100

63 21.3 0.0 36.4

88 15.0 0.0 30.6





#35

Dibromofluoromethane

Concen: 54.236 ug/l

RT: 8.177 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN079667.D

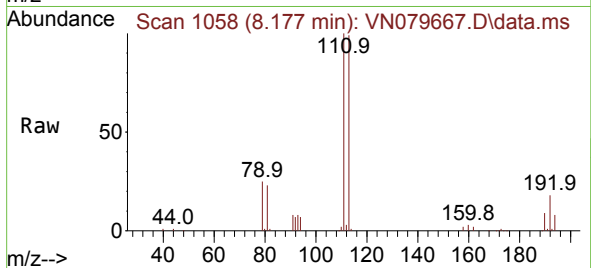
Acq: 24 Oct 2023 19:13

Instrument :

MSVOA_N

ClientSampleId :

231010082-44



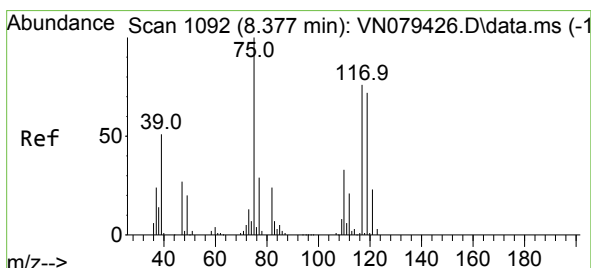
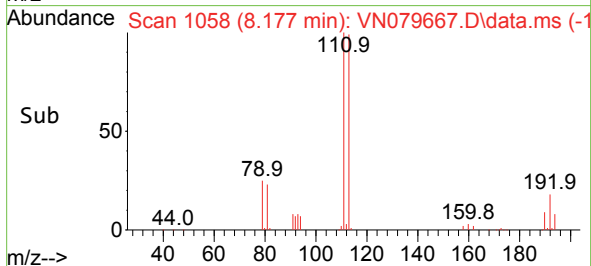
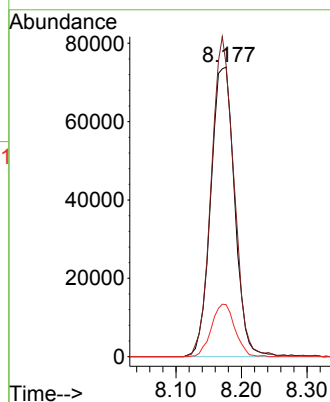
Tgt Ion:113 Resp: 186779

Ion Ratio Lower Upper

113 100

111 104.6 82.6 123.8

192 17.9 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.362 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.141 min

Lab File: VN079667.D

Acq: 24 Oct 2023 19:13

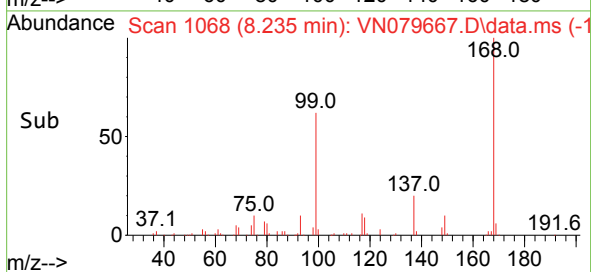
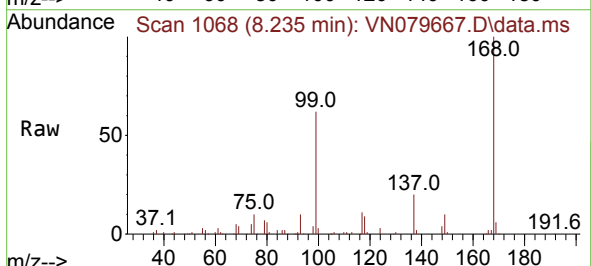
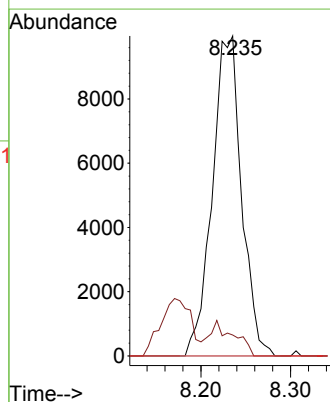
Tgt Ion: 75 Resp: 22546

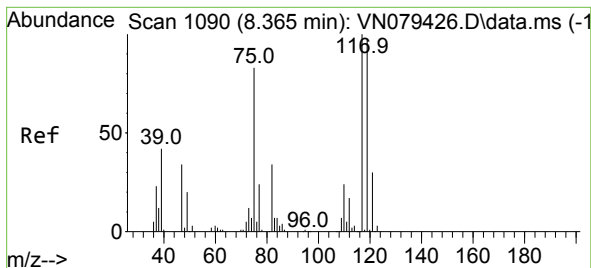
Ion Ratio Lower Upper

75 100

110 9.2 19.1 57.3#

77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.026 ug/l

RT: 8.235 min Scan# 1105

Delta R.T. -0.129 min

Lab File: VN079667.D

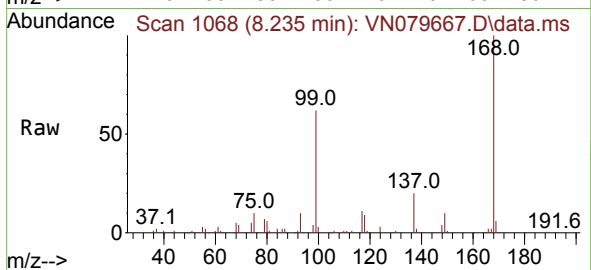
Acq: 24 Oct 2023 19:13

Instrument :

MSVOA_N

ClientSampleId :

231010082-44



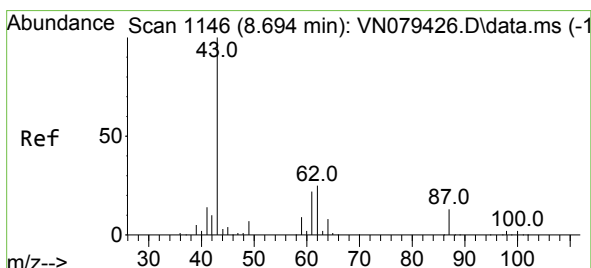
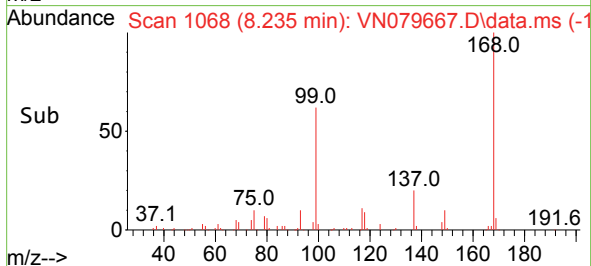
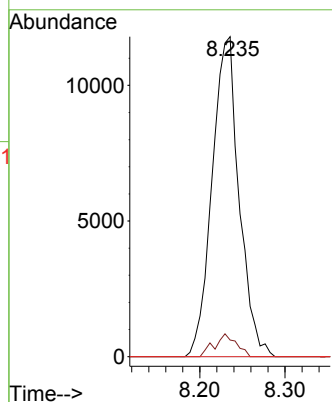
Tgt Ion:117 Resp: 26008

Ion Ratio Lower Upper

117 100

119 5.2 77.3 115.9#

121 0.0 23.3 34.9#



#43

Isopropyl Acetate

Concen: 0.374 ug/l

RT: 8.747 min Scan# 1155

Delta R.T. 0.053 min

Lab File: VN079667.D

Acq: 24 Oct 2023 19:13

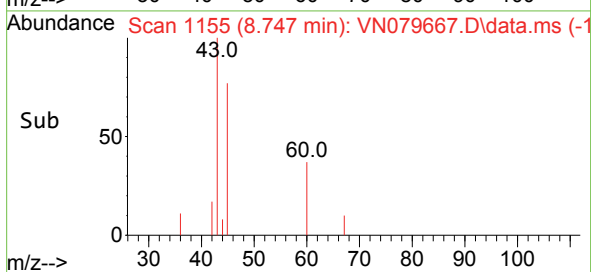
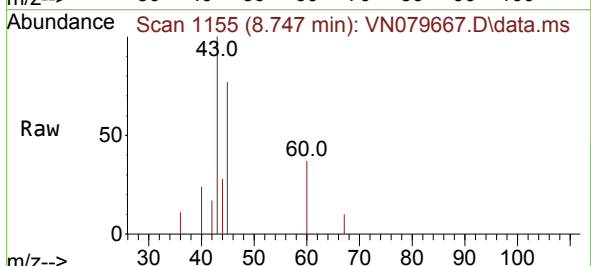
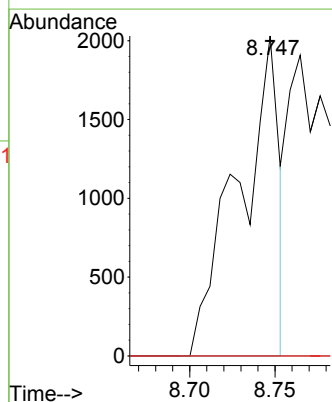
Tgt Ion: 43 Resp: 3374

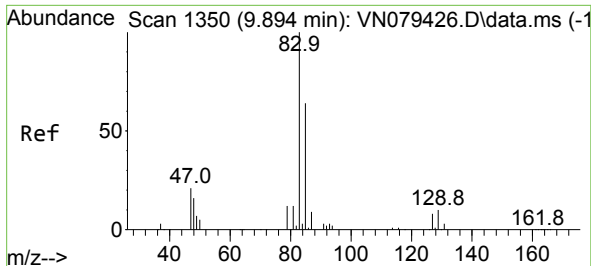
Ion Ratio Lower Upper

43 100

61 0.0 24.7 37.1#

87 0.0 14.6 21.8#

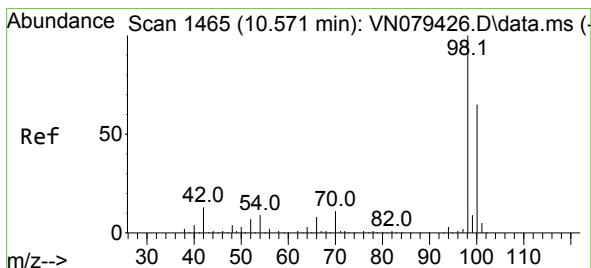
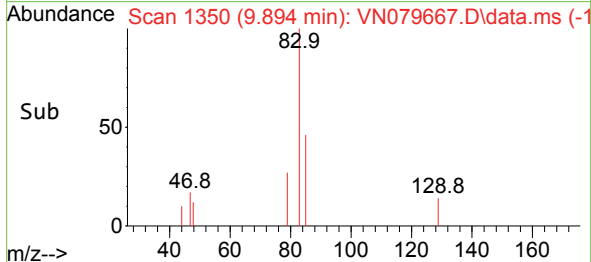
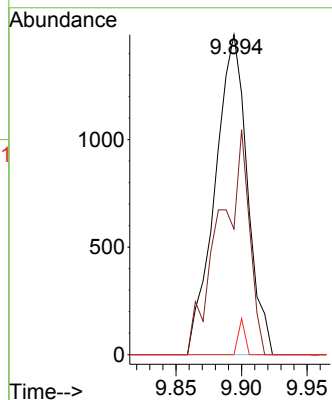
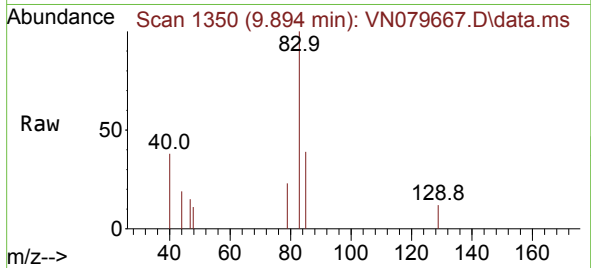




#47
Bromodichloromethane
Concen: 0.473 ug/l
RT: 9.894 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN079667.D
Acq: 24 Oct 2023 19:13

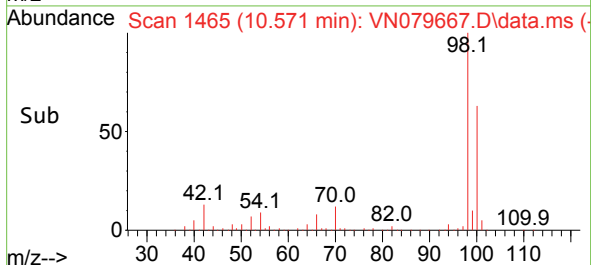
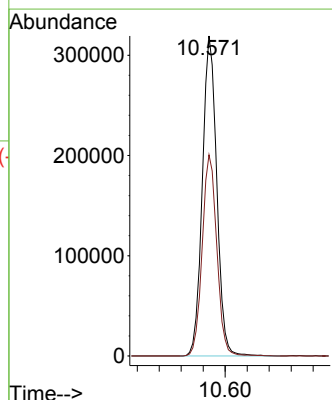
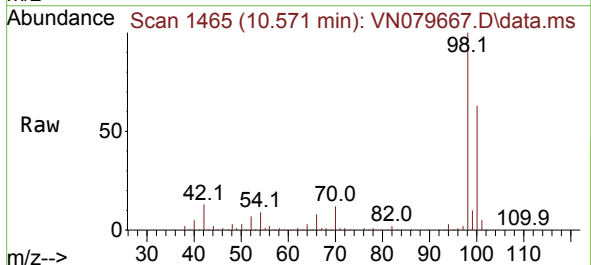
Instrument :
MSVOA_N
ClientSampleId :
231010082-44

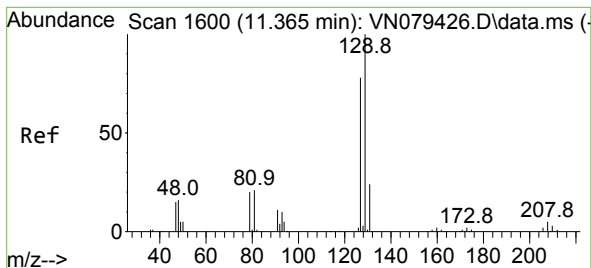
Tgt Ion: 83 Resp: 2546
Ion Ratio Lower Upper
83 100
85 39.2 49.6 74.4#
127 0.0 7.0 10.6#



#50
Toluene-d8
Concen: 46.615 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN079667.D
Acq: 24 Oct 2023 19:13

Tgt Ion: 98 Resp: 580853
Ion Ratio Lower Upper
98 100
100 63.7 52.0 78.0

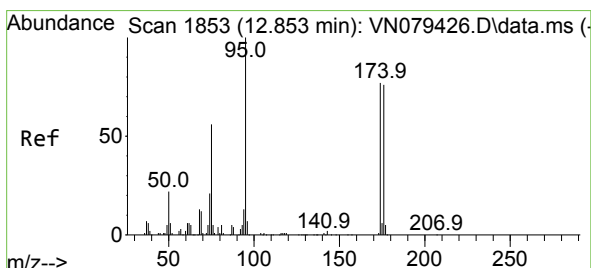
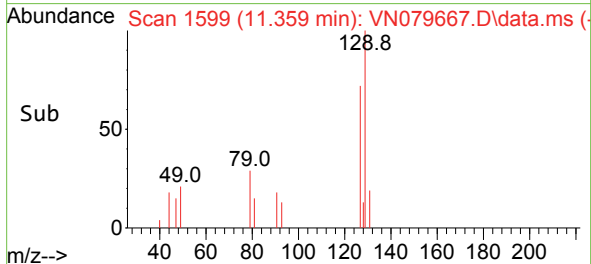
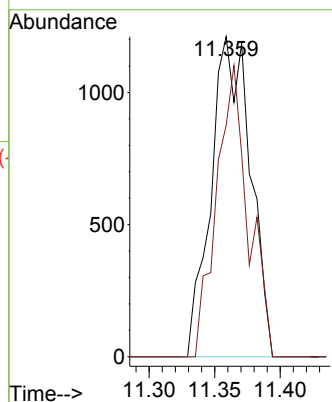
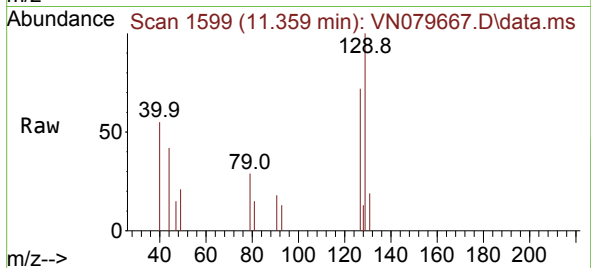




#60
Dibromochloromethane
Concen: 0.693 ug/l
RT: 11.359 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN079667.D
Acq: 24 Oct 2023 19:13

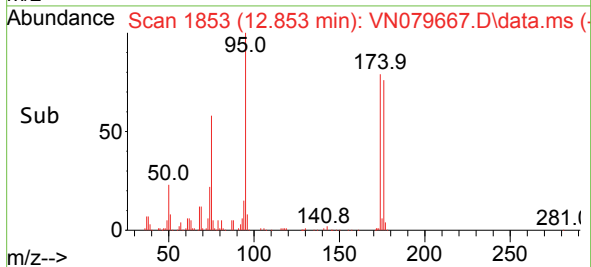
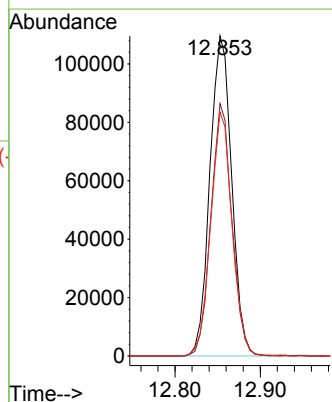
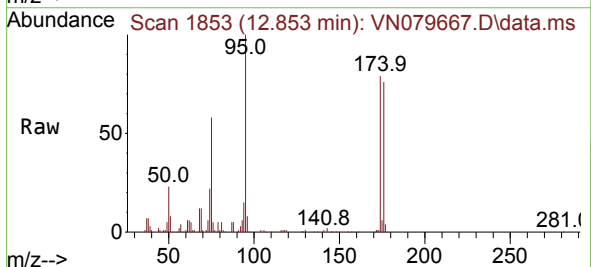
Instrument :
MSVOA_N
ClientSampleId :
231010082-44

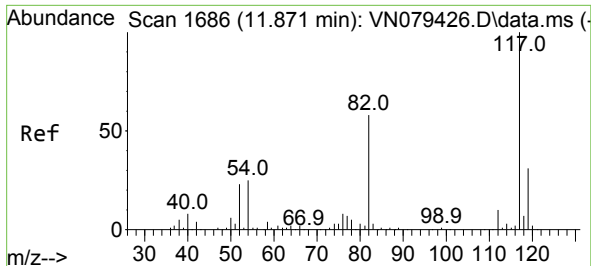
Tgt Ion:129 Resp: 2528
Ion Ratio Lower Upper
129 100
127 73.3 38.6 116.0



#62
4-Bromofluorobenzene
Concen: 48.606 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN079667.D
Acq: 24 Oct 2023 19:13

Tgt Ion: 95 Resp: 194372
Ion Ratio Lower Upper
95 100
174 76.0 0.0 143.8
176 74.6 0.0 135.8

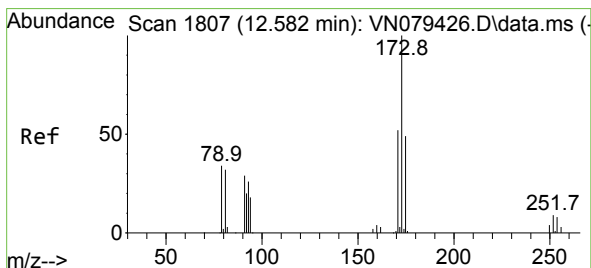
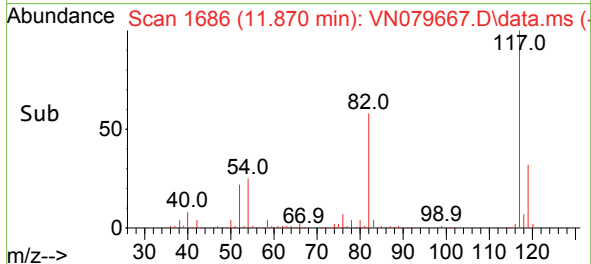
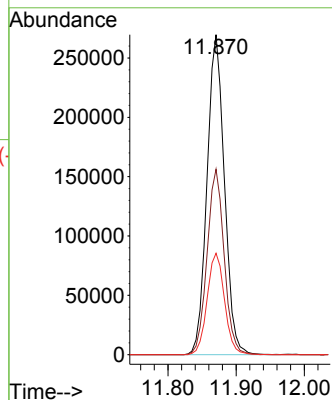
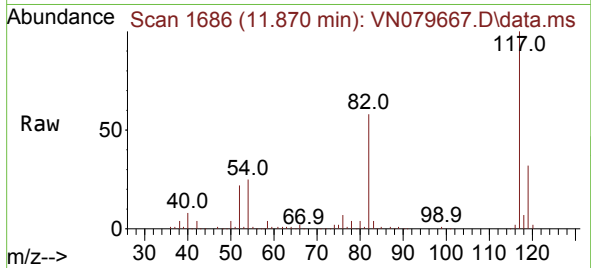




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN079667.D
Acq: 24 Oct 2023 19:13

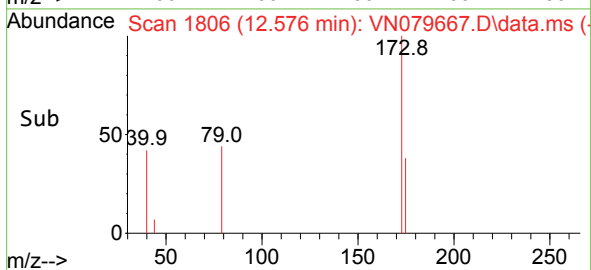
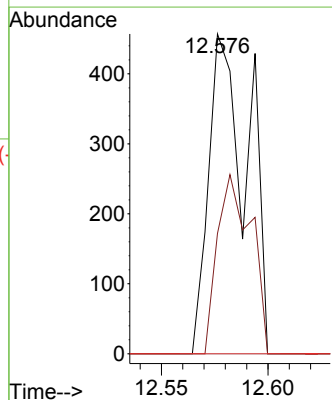
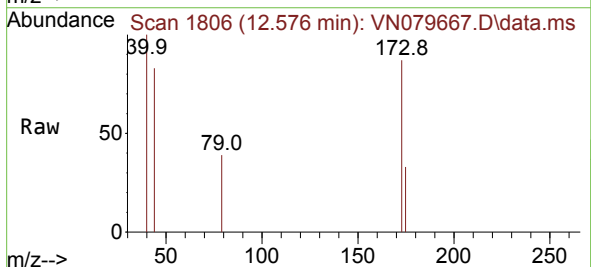
Instrument :
MSVOA_N
ClientSampleId :
231010082-44

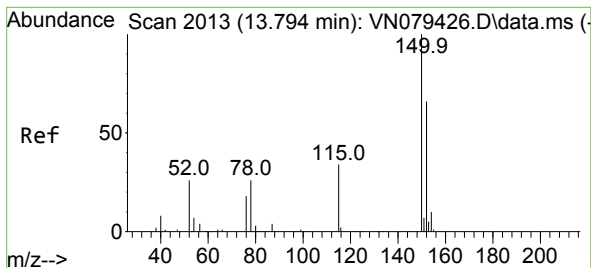
Tgt Ion:117 Resp: 478867
Ion Ratio Lower Upper
117 100
82 58.0 44.0 66.0
119 31.7 25.6 38.4



#71
Bromoform
Concen: 0.201 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.006 min
Lab File: VN079667.D
Acq: 24 Oct 2023 19:13

Tgt Ion:173 Resp: 574
Ion Ratio Lower Upper
173 100
175 49.1 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# 2013

Delta R.T. 0.006 min

Lab File: VN079667.D

Acq: 24 Oct 2023 19:13

Instrument :

MSVOA_N

ClientSampleId :

231010082-44

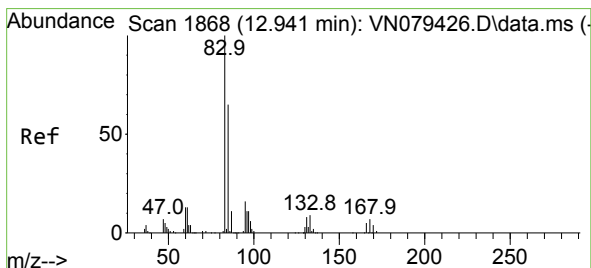
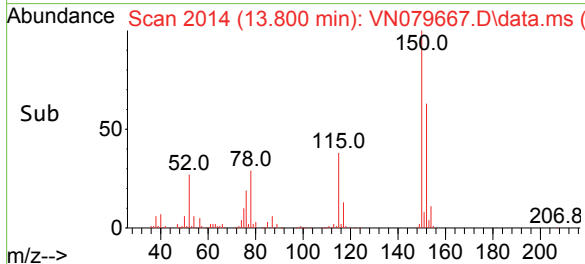
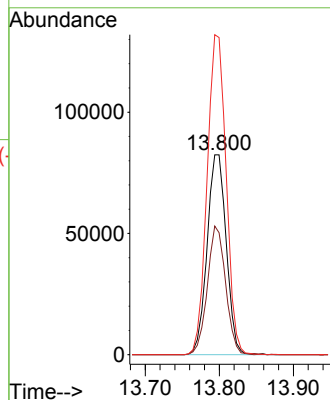
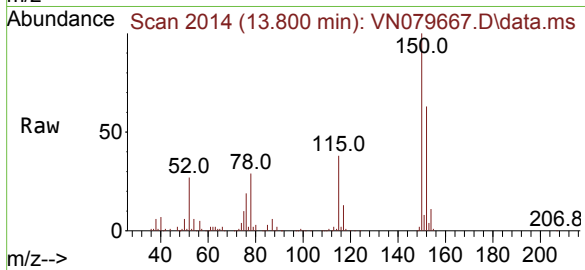
Tgt Ion:152 Resp: 148178

Ion Ratio Lower Upper

152 100

115 61.4 32.3 96.8

150 158.8 0.0 355.8



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.853 min Scan# 1853

Delta R.T. -0.088 min

Lab File: VN079667.D

Acq: 24 Oct 2023 19:13

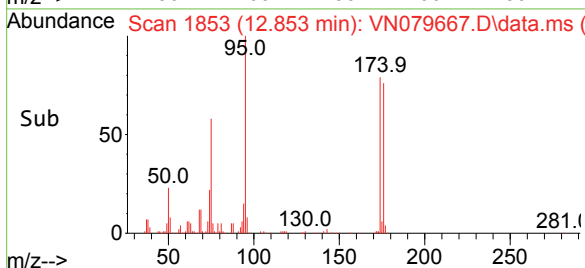
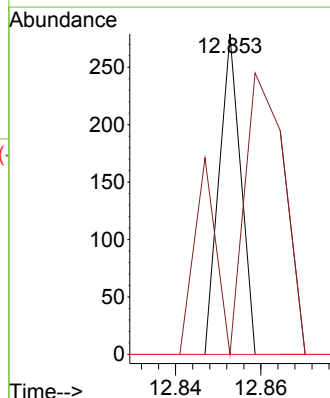
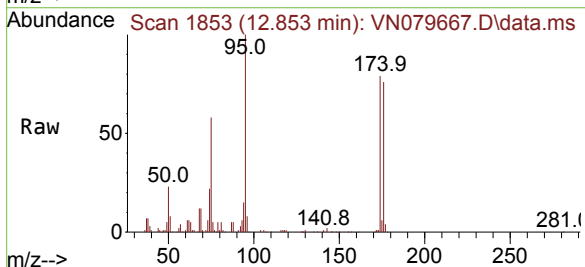
Tgt Ion: 83 Resp: 98

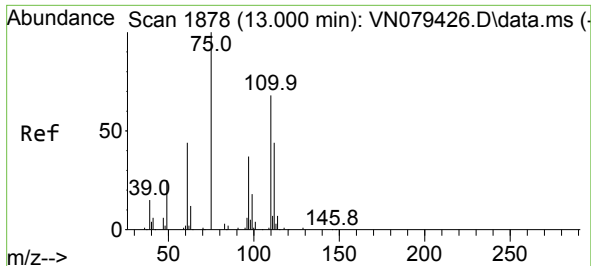
Ion Ratio Lower Upper

83 100

131 220.4 5.0 15.0#

85 0.0 31.9 95.7#

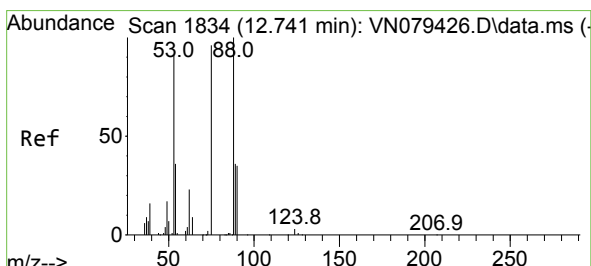
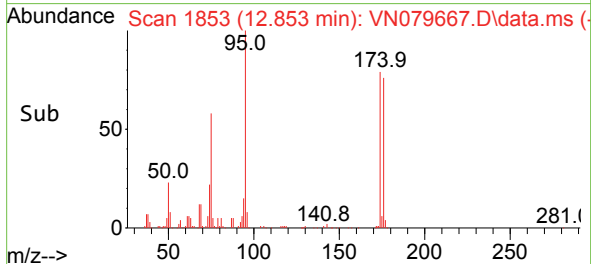
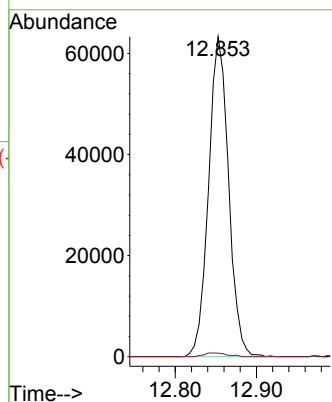
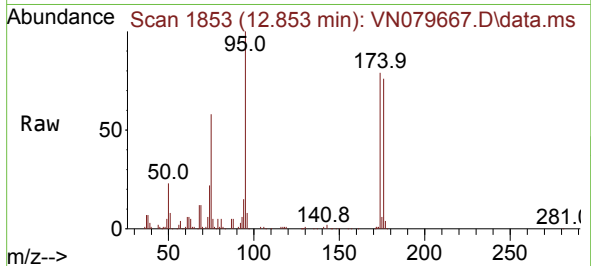




#76
 1,2,3-Trichloropropane
 Concen: 25.363 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.147 min
 Lab File: VN079667.D
 Acq: 24 Oct 2023 19:13

Instrument :
 MSVOA_N
 ClientSampleId :
 231010082-44

Tgt Ion: 75 Resp: 108360
 Ion Ratio Lower Upper
 75 100
 77 1.4 84.5 253.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 73.592 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.112 min
 Lab File: VN079667.D
 Acq: 24 Oct 2023 19:13

Tgt Ion: 75 Resp: 108360
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#

