

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012023\
 Data File : VN076347.D
 Acq On : 20 Jan 2023 14:49
 Operator : JC\MD
 Sample : 01233-12
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FB01

Quant Time: Jan 20 22:16:22 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011623W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 17 03:59:22 2023
 Response via : Initial Calibration

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

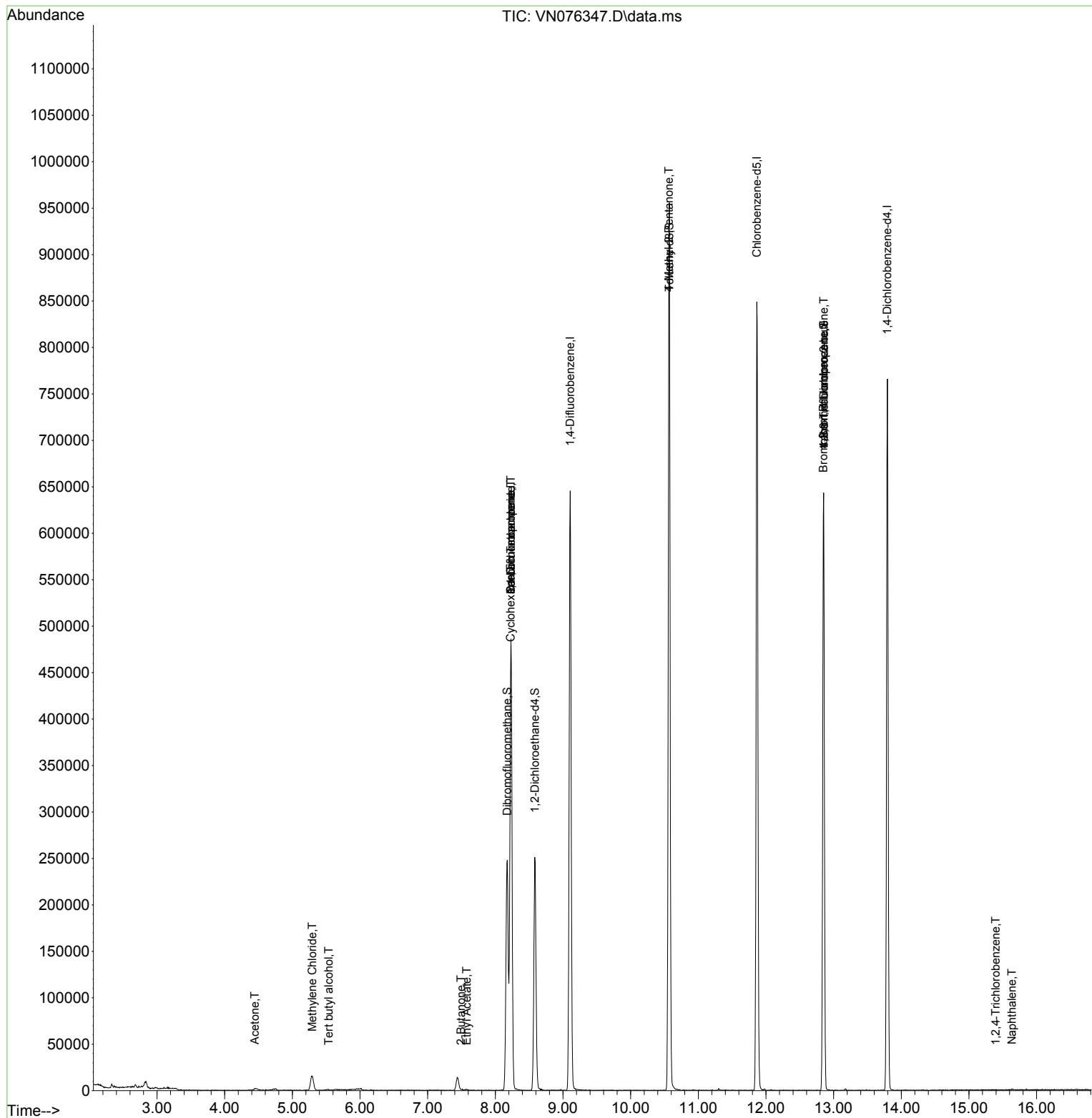
Internal Standards						
1) Pentafluorobenzene	8.230	168	370105	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	595933	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	523917	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	212240	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	203331	49.066	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	98.140%
35) Dibromofluoromethane	8.177	113	179169	48.063	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	96.120%
50) Toluene-d8	10.571	98	682616	49.583	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	99.160%
62) 4-Bromofluorobenzene	12.853	95	215515	47.952	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	95.900%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.536	59	640	1.155	ug/l #	72
16) Acetone	4.448	43	1687	1.197	ug/l	98
20) Methylene Chloride	5.295	84	13253	2.803	ug/l	97
25) 2-Butanone	7.494	43	1441	0.710	ug/l #	40
31) Cyclohexane	8.224	56	7224	1.135	ug/l #	36
36) 1,1-Dichloropropene	8.230	75	27534	5.198	ug/l #	48
37) Ethyl Acetate	7.577	43	1960	0.498	ug/l #	67
38) Carbon Tetrachloride	8.230	117	37649	6.373	ug/l #	16
51) 4-Methyl-2-Pentanone	10.565	43	2394	0.590	ug/l #	1
71) Bromoform	12.847	173	1540	0.518	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	113759	29.024	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	113759	89.180	ug/l #	12
93) 1,2,4-Trichlorobenzene	15.394	180	115	1.335	ug/l #	61
95) Naphthalene	15.635	128	1268	1.950	ug/l #	86

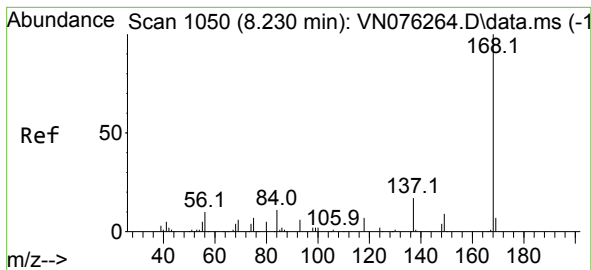
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.000 min

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Instrument :

MSVOA_N

ClientSampleId :

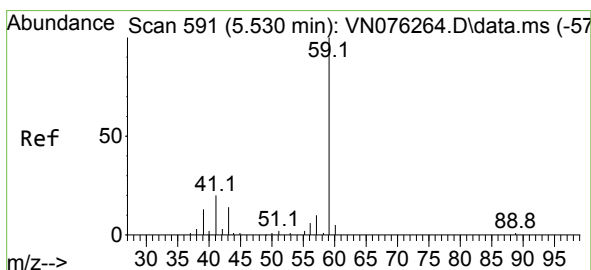
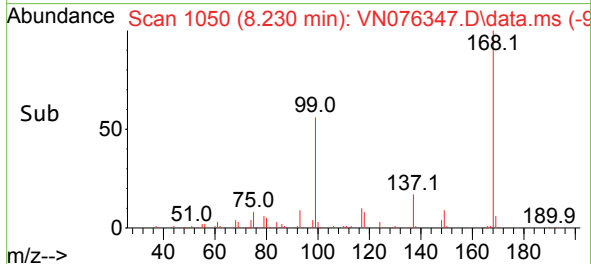
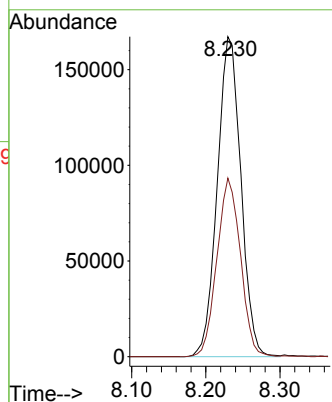
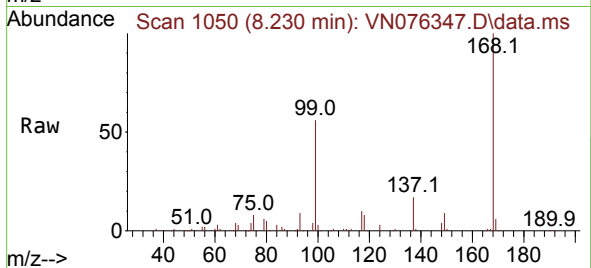
FB01

Tgt Ion:168 Resp: 370105

Ion Ratio Lower Upper

168 100

99 55.8 41.6 62.4



#11

Tert butyl alcohol

Concen: 1.155 ug/l

RT: 5.536 min Scan# 592

Delta R.T. 0.006 min

Lab File: VN076347.D

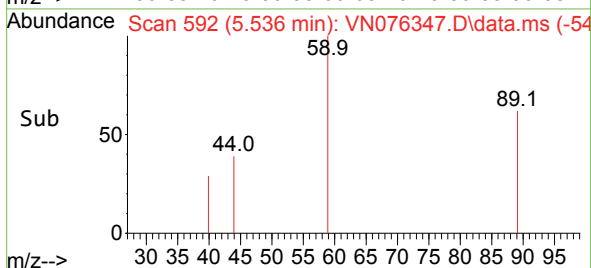
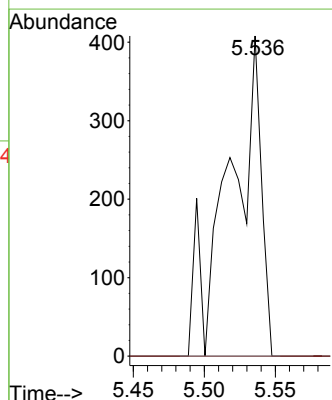
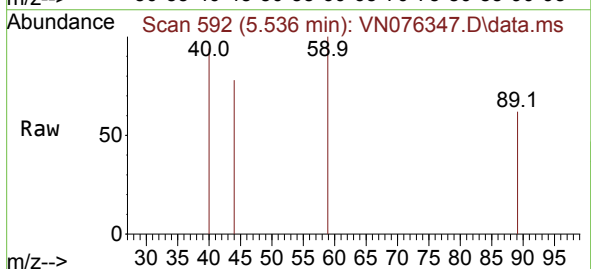
Acq: 20 Jan 2023 14:49

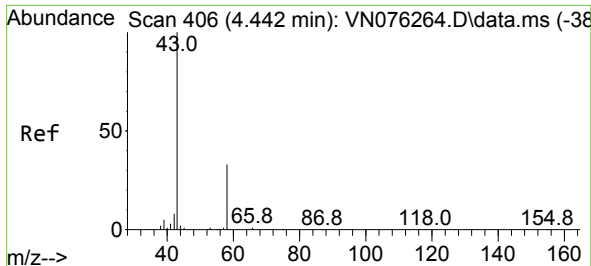
Tgt Ion: 59 Resp: 640

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#

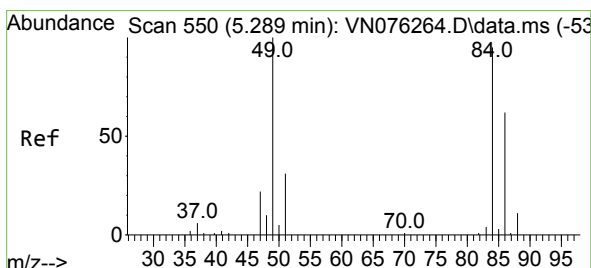
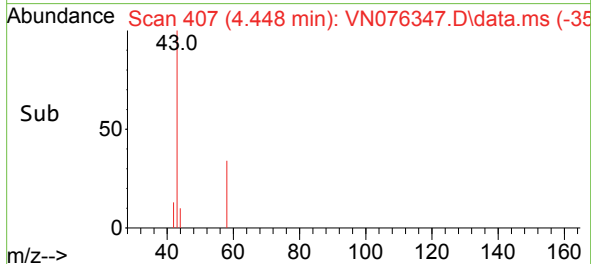
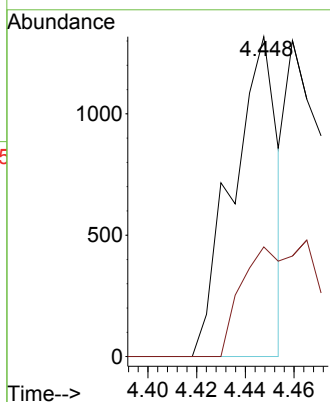
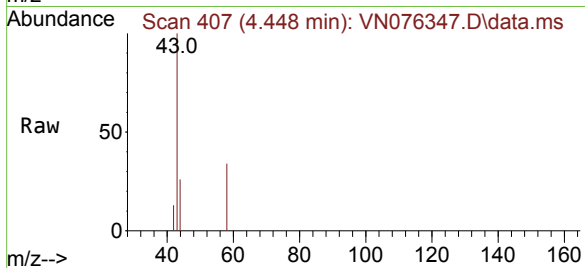




#16
Acetone
Concen: 1.197 ug/l
RT: 4.448 min Scan# 406
Delta R.T. 0.006 min
Lab File: VN076347.D
Acq: 20 Jan 2023 14:49

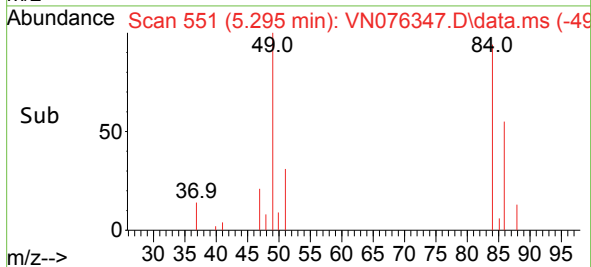
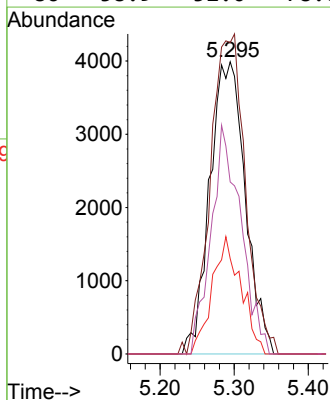
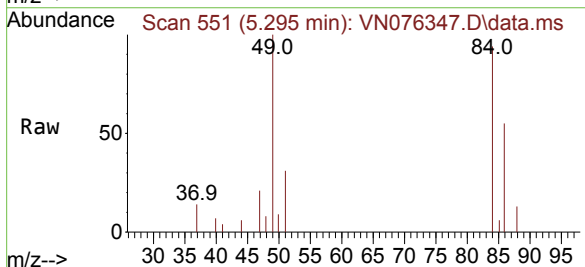
Instrument :
MSVOA_N
ClientSampleId :
FB01

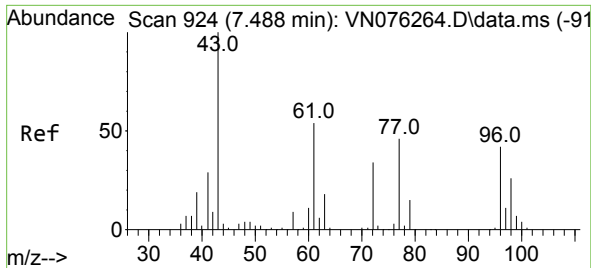
Tgt Ion: 43 Resp: 1687
Ion Ratio Lower Upper
43 100
58 34.3 26.7 40.1



#20
Methylene Chloride
Concen: 2.803 ug/l
RT: 5.295 min Scan# 551
Delta R.T. 0.006 min
Lab File: VN076347.D
Acq: 20 Jan 2023 14:49

Tgt Ion: 84 Resp: 13253
Ion Ratio Lower Upper
84 100
49 106.6 84.5 126.7
51 32.7 26.0 39.0
86 58.9 52.0 78.0

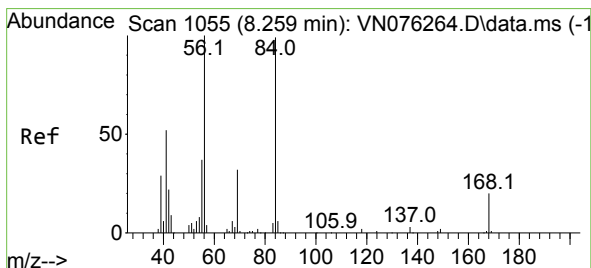
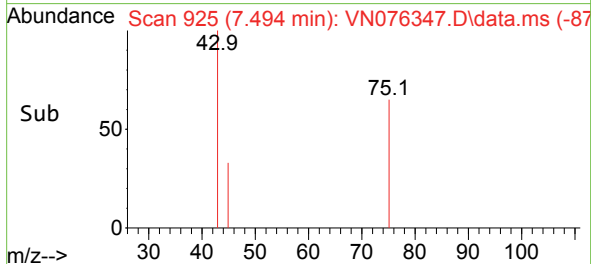
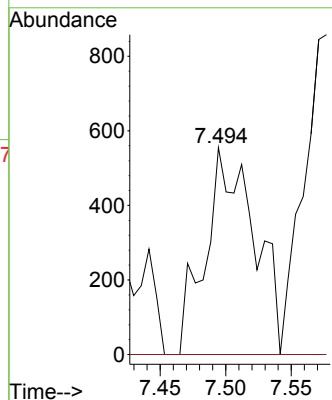
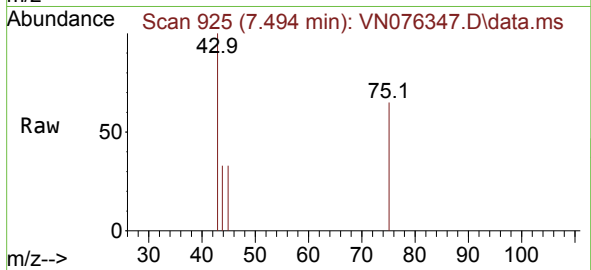




#25
2-Butanone
Concen: 0.710 ug/l
RT: 7.494 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN076347.D
Acq: 20 Jan 2023 14:49

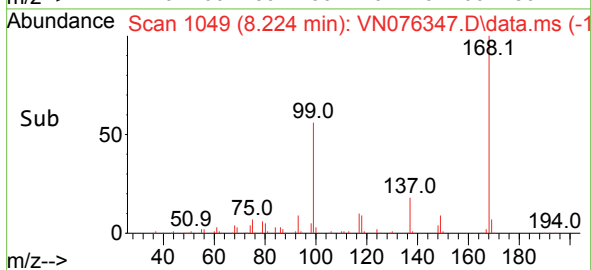
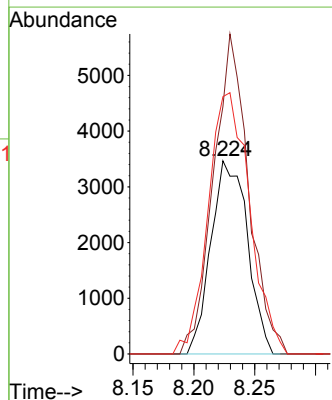
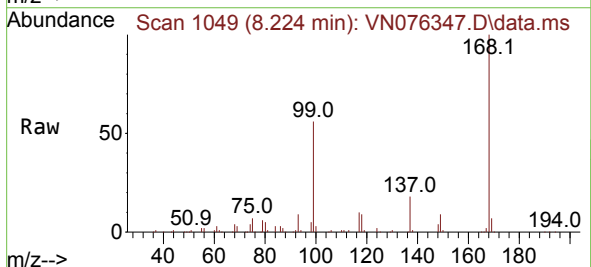
Instrument :
MSVOA_N
ClientSampleId :
FB01

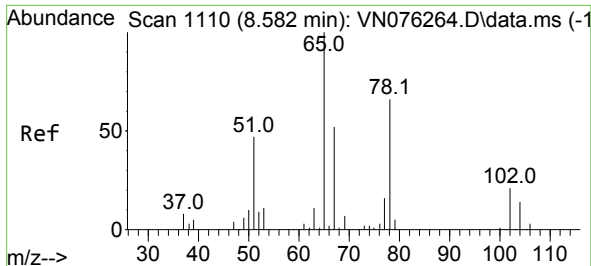
Tgt Ion: 43 Resp: 1441
Ion Ratio Lower Upper
43 100
72 0.0 27.4 41.2#



#31
Cyclohexane
Concen: 1.135 ug/l
RT: 8.224 min Scan# 1049
Delta R.T. -0.035 min
Lab File: VN076347.D
Acq: 20 Jan 2023 14:49

Tgt Ion: 56 Resp: 7224
Ion Ratio Lower Upper
56 100
69 128.1 25.8 38.8#
84 127.0 79.0 118.4#





#33

1,2-Dichloroethane-d4

Concen: 49.066 ug/l

RT: 8.583 min Scan# 1110

Delta R.T. 0.001 min

Lab File: VN076347.D

Acq: 20 Jan 2023 14:49

Instrument :

MSVOA_N

ClientSampleId :

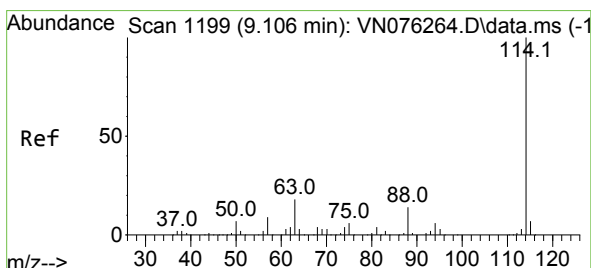
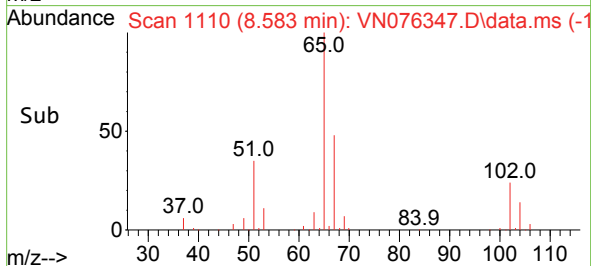
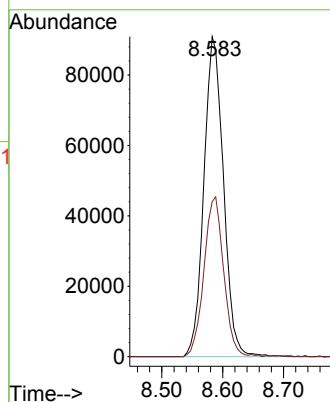
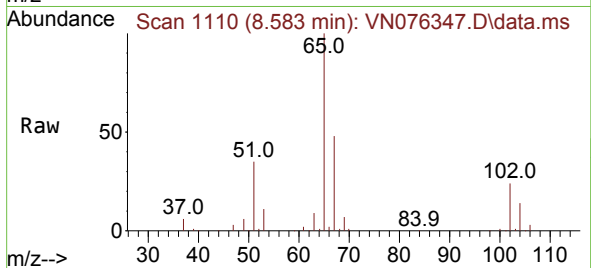
FB01

Tgt Ion: 65 Resp: 203331

Ion Ratio Lower Upper

65 100

67 50.1 0.0 104.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. 0.000 min

Lab File: VN076347.D

Acq: 20 Jan 2023 14:49

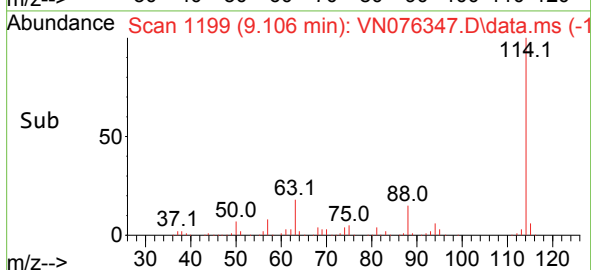
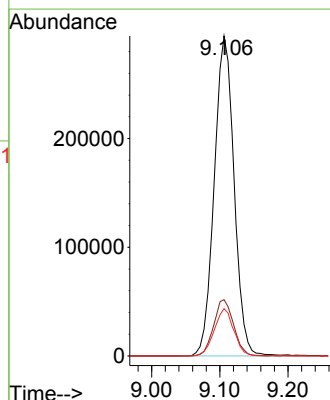
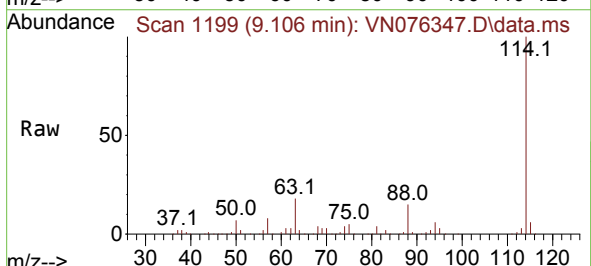
Tgt Ion: 114 Resp: 595933

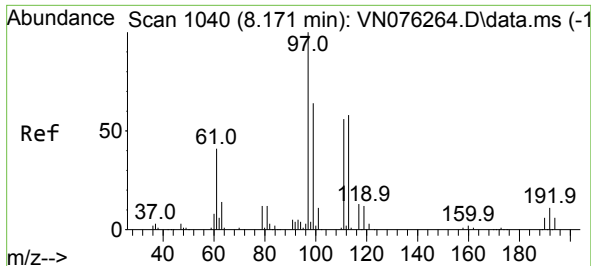
Ion Ratio Lower Upper

114 100

63 17.6 0.0 35.8

88 14.8 0.0 28.0





#35

Dibromofluoromethane

Concen: 48.063 ug/l

RT: 8.177 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN076347.D

Acq: 20 Jan 2023 14:49

Instrument :

MSVOA_N

ClientSampleId :

FB01

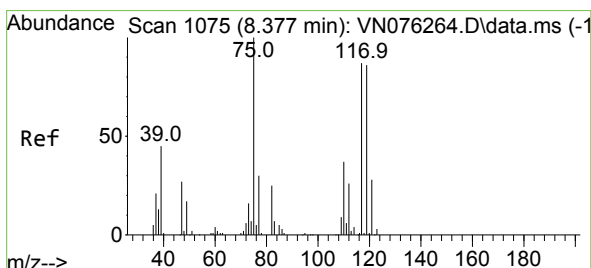
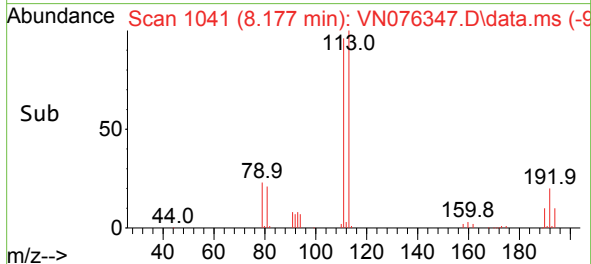
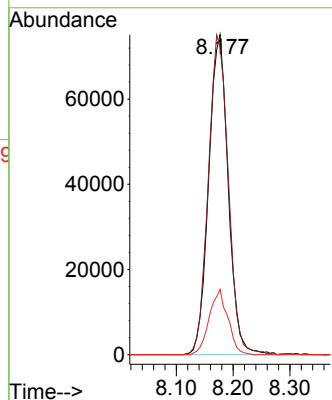
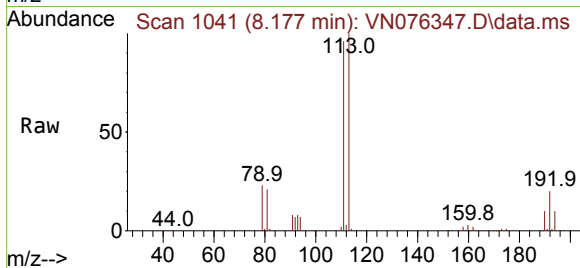
Tgt Ion:113 Resp: 179169

Ion Ratio Lower Upper

113 100

111 102.3 82.7 124.1

192 19.5 15.6 23.4



#36

1,1-Dichloropropene

Concen: 5.198 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.147 min

Lab File: VN076347.D

Acq: 20 Jan 2023 14:49

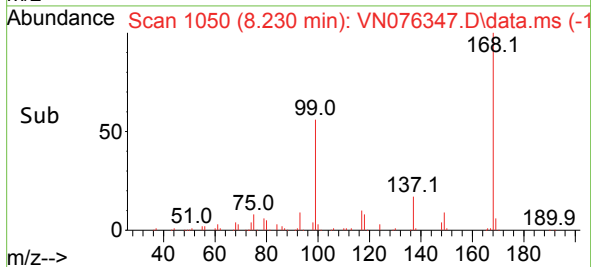
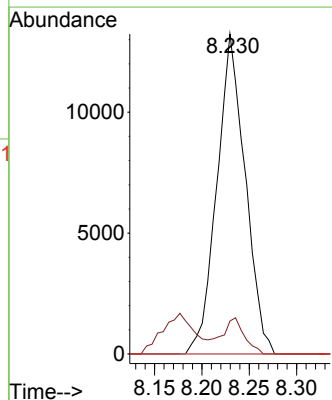
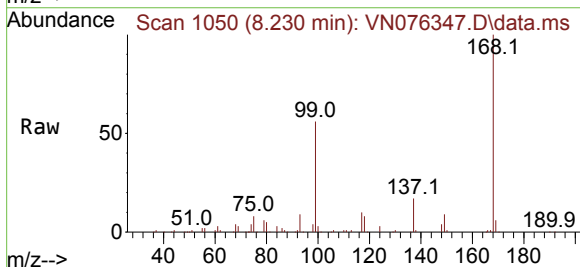
Tgt Ion: 75 Resp: 27534

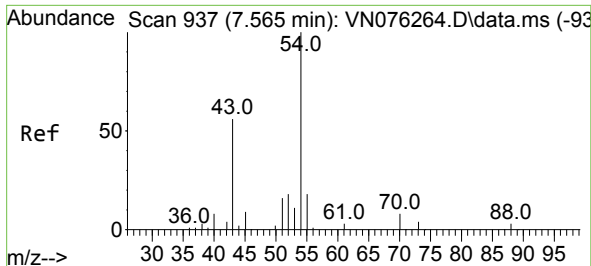
Ion Ratio Lower Upper

75 100

110 8.3 18.8 56.3#

77 0.0 25.0 37.4#

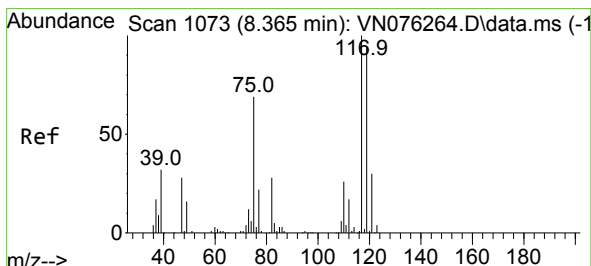
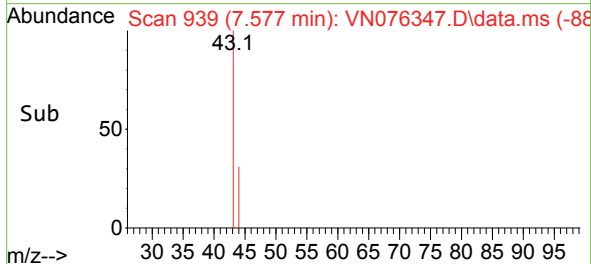
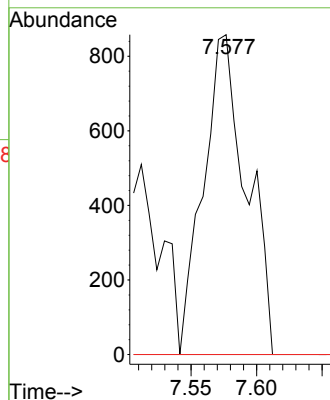
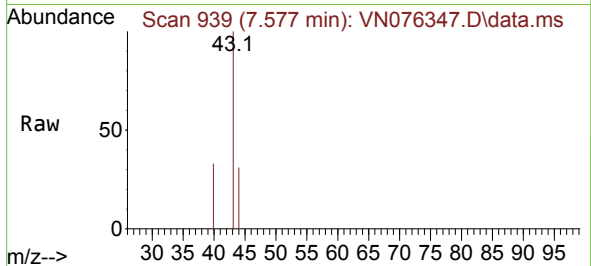




#37
Ethyl Acetate
Concen: 0.498 ug/l
RT: 7.577 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN076347.D
Acq: 20 Jan 2023 14:49

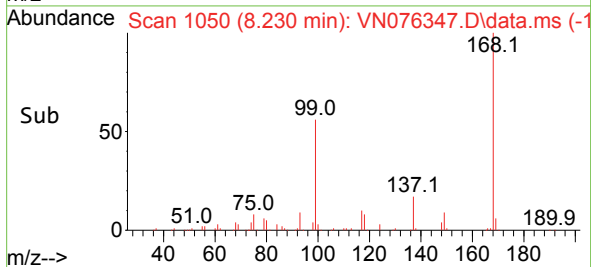
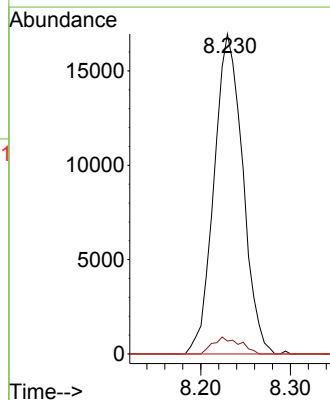
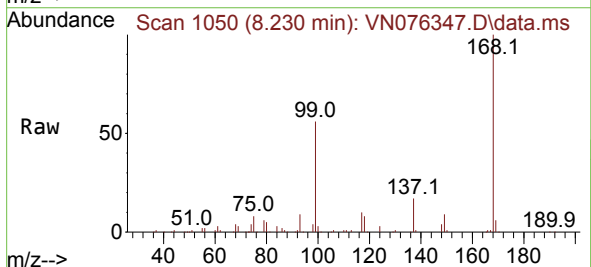
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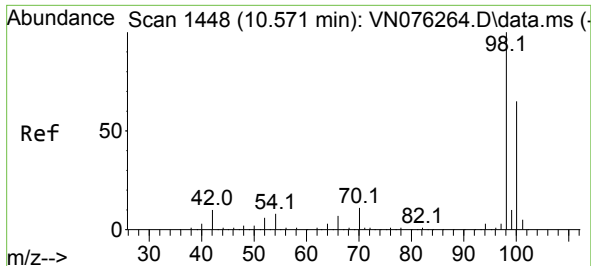
Tgt Ion: 43 Resp: 1960
Ion Ratio Lower Upper
43 100
61 0.0 11.1 16.7#
70 0.0 10.0 15.0#



#38
Carbon Tetrachloride
Concen: 6.373 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.135 min
Lab File: VN076347.D
Acq: 20 Jan 2023 14:49

Tgt Ion: 117 Resp: 37649
Ion Ratio Lower Upper
117 100
119 4.1 75.4 113.0#
121 0.0 24.2 36.2#

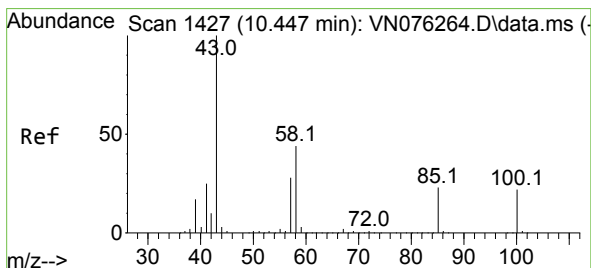
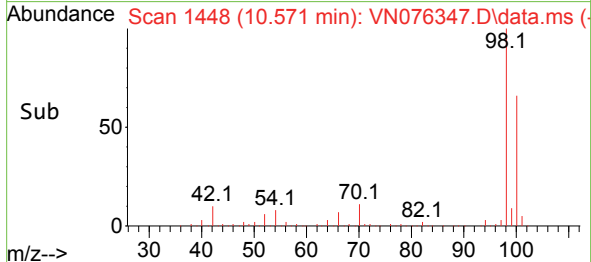
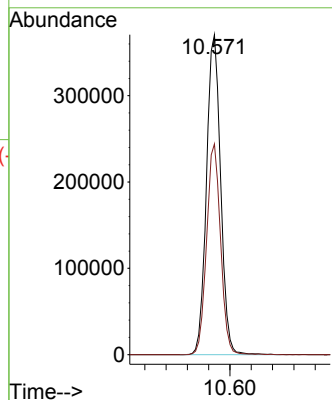
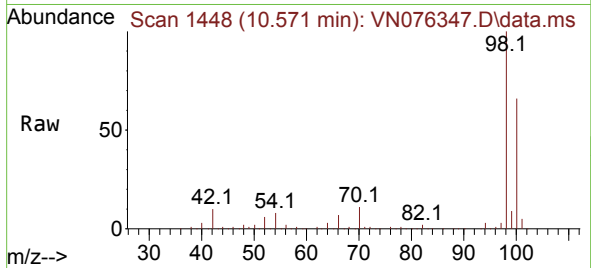




#50
Toluene-d8
Concen: 49.583 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. -0.000 min
Lab File: VN076347.D
Acq: 20 Jan 2023 14:49

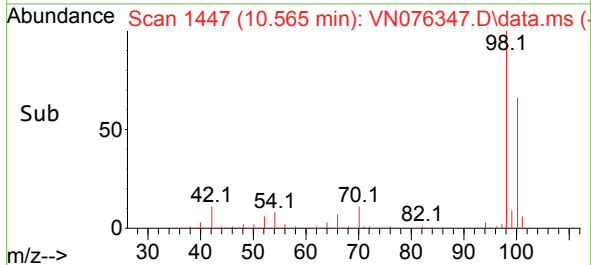
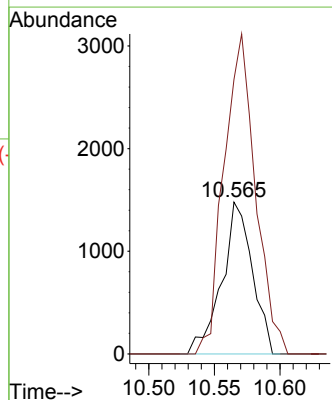
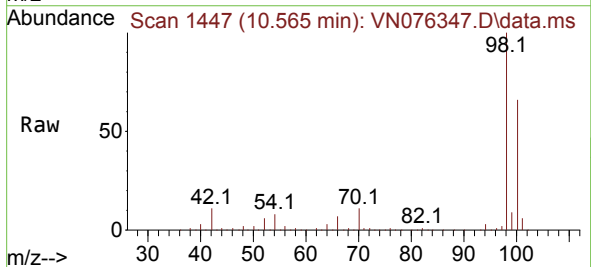
Instrument :
MSVOA_N
ClientSampleId :
FB01

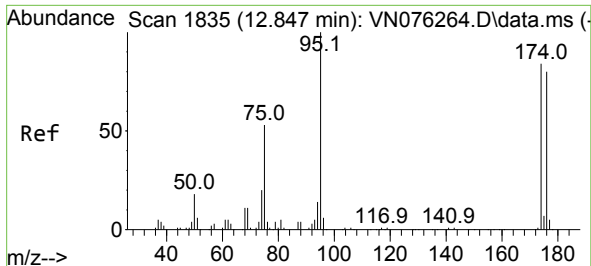
Tgt Ion: 98 Resp: 682616
Ion Ratio Lower Upper
98 100
100 65.0 52.2 78.4



#51
4-Methyl-2-Pentanone
Concen: 0.590 ug/l
RT: 10.565 min Scan# 1447
Delta R.T. 0.118 min
Lab File: VN076347.D
Acq: 20 Jan 2023 14:49

Tgt Ion: 43 Resp: 2394
Ion Ratio Lower Upper
43 100
58 217.7 35.1 52.7#

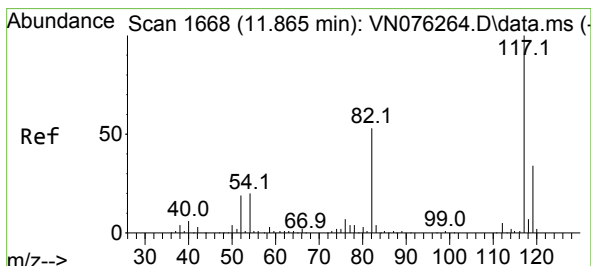
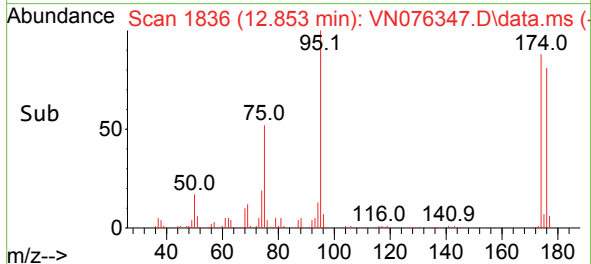
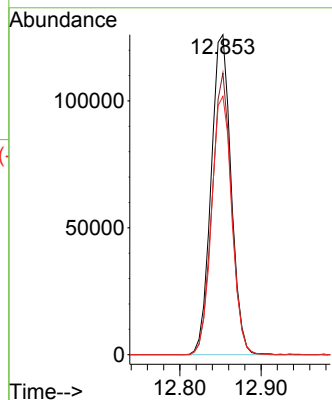
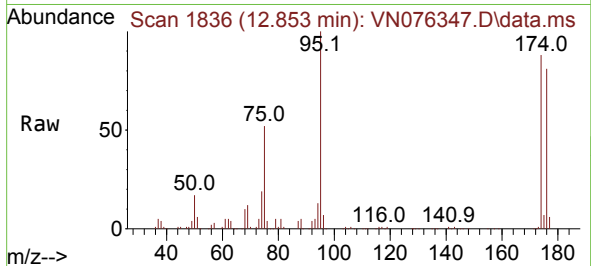




#62
4-Bromofluorobenzene
Concen: 47.952 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.006 min
Lab File: VN076347.D
Acq: 20 Jan 2023 14:49

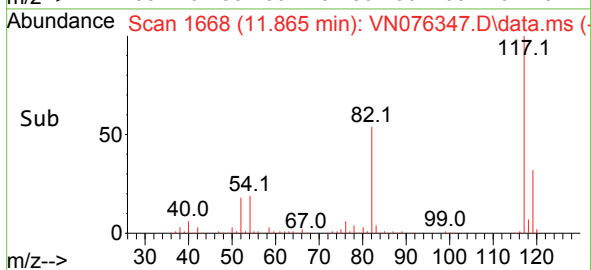
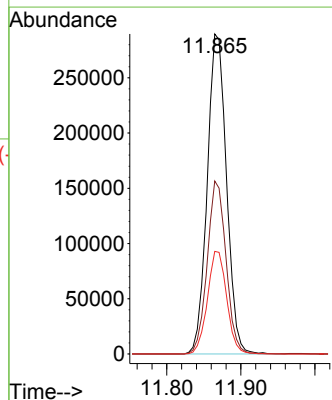
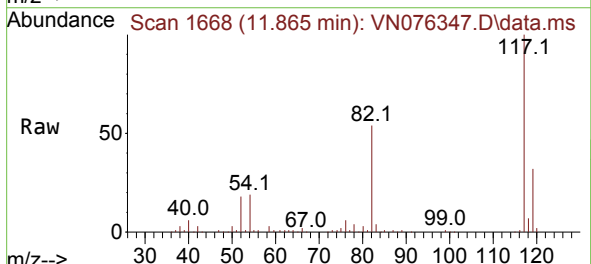
Instrument :
MSVOA_N
ClientSampleId :
FB01

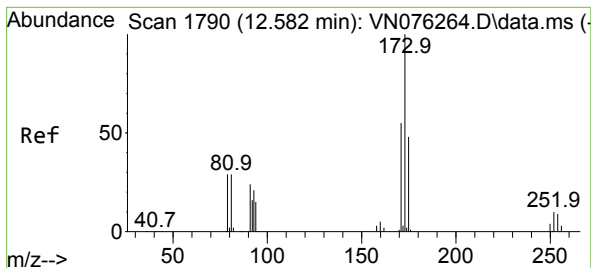
Tgt Ion: 95 Resp: 215515
Ion Ratio Lower Upper
95 100
174 85.7 0.0 174.6
176 82.0 0.0 167.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1668
Delta R.T. -0.000 min
Lab File: VN076347.D
Acq: 20 Jan 2023 14:49

Tgt Ion: 117 Resp: 523917
Ion Ratio Lower Upper
117 100
82 54.1 42.2 63.2
119 32.1 26.9 40.3





#71

Bromoform

Concen: 0.518 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.265 min

Lab File: VN076347.D

Acq: 20 Jan 2023 14:49

Instrument :

MSVOA_N

ClientSampleId :

FB01

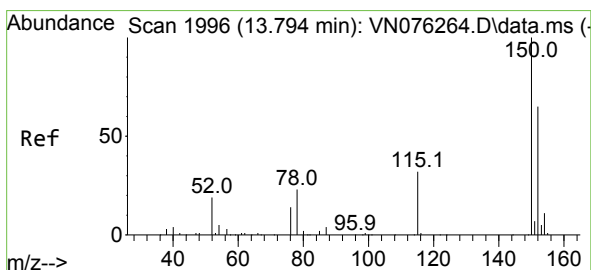
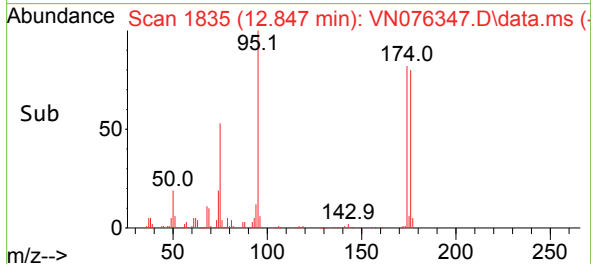
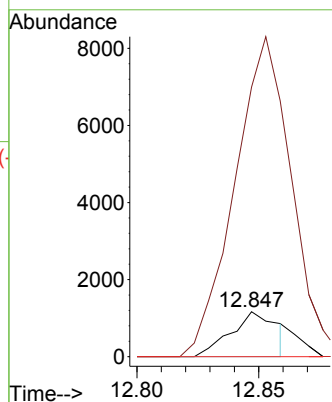
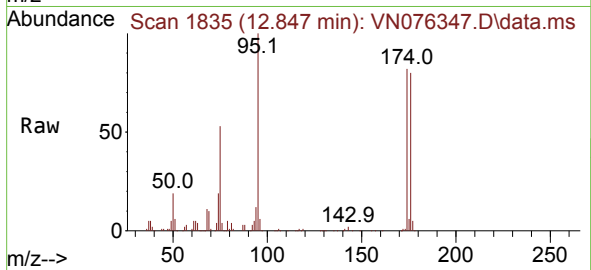
Tgt Ion:173 Resp: 1540

Ion Ratio Lower Upper

173 100

175 717.5 24.1 72.4#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 1996

Delta R.T. 0.000 min

Lab File: VN076347.D

Acq: 20 Jan 2023 14:49

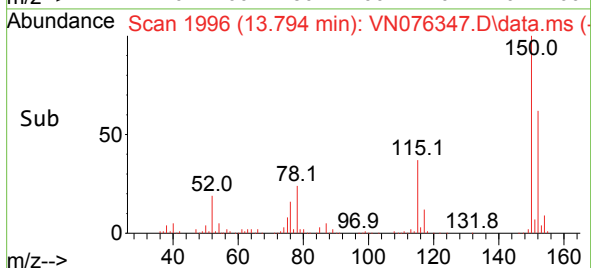
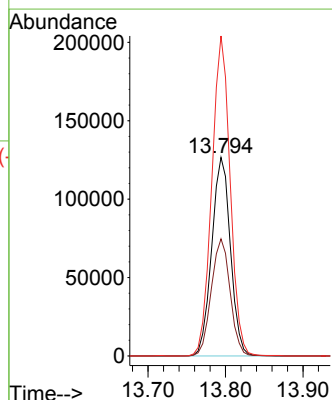
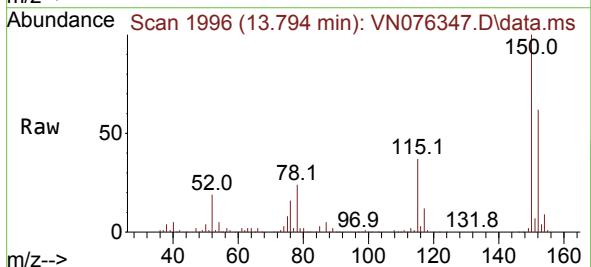
Tgt Ion:152 Resp: 212240

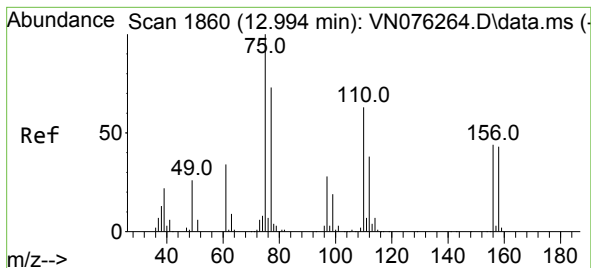
Ion Ratio Lower Upper

152 100

115 59.3 29.6 88.9

150 157.9 0.0 351.4





#76

1,2,3-Trichloropropane

Concen: 29.024 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. -0.141 min

Lab File: VN076347.D

Acq: 20 Jan 2023 14:49

Instrument :

MSVOA_N

ClientSampleId :

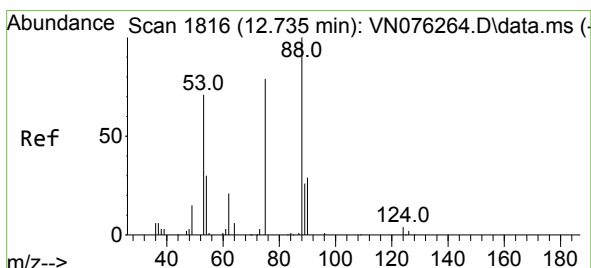
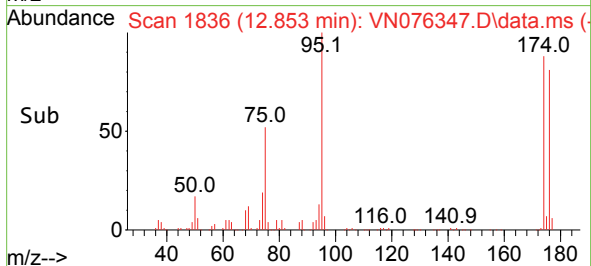
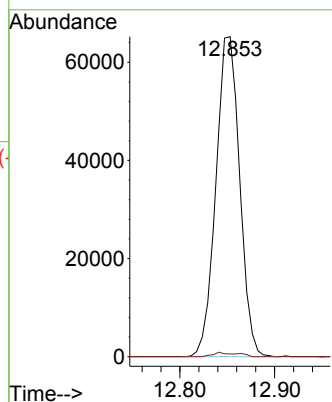
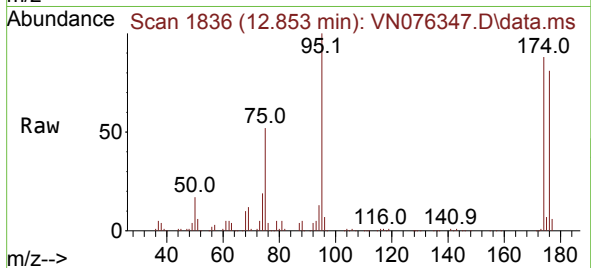
FB01

Tgt Ion: 75 Resp: 113759

Ion Ratio Lower Upper

75 100

77 1.4 75.2 225.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 89.180 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. 0.118 min

Lab File: VN076347.D

Acq: 20 Jan 2023 14:49

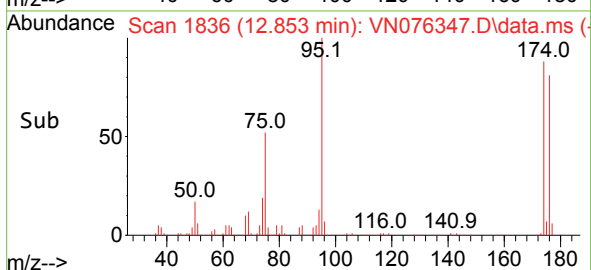
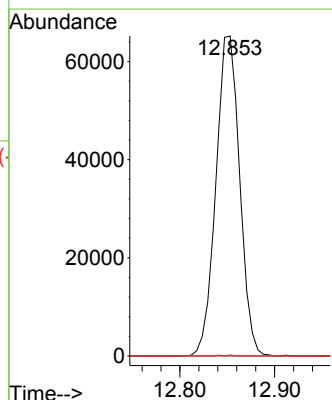
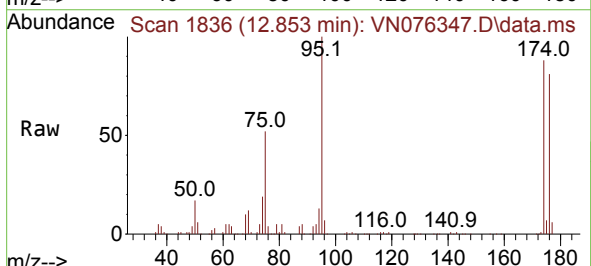
Tgt Ion: 75 Resp: 113759

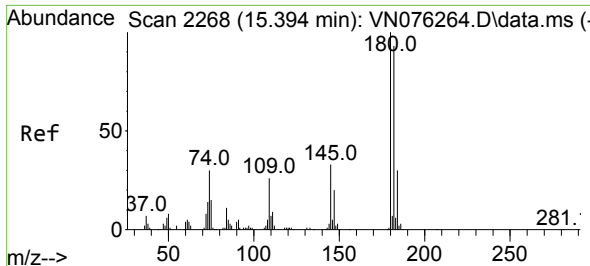
Ion Ratio Lower Upper

75 100

53 0.1 75.8 113.8#

89 0.1 37.0 55.6#

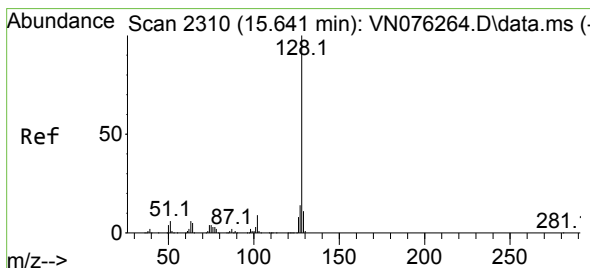
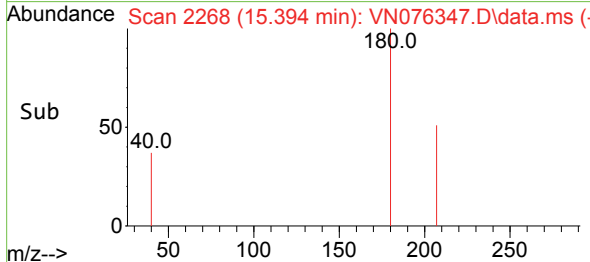
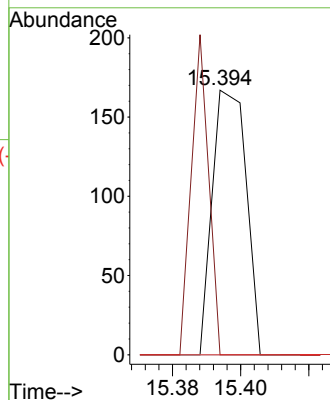
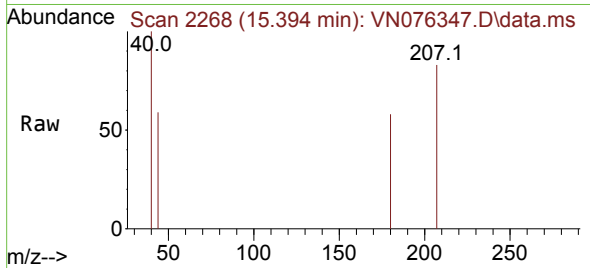




#93
1,2,4-Trichlorobenzene
Concen: 1.335 ug/l
RT: 15.394 min Scan# 211
Delta R.T. -0.000 min
Lab File: VN076347.D
Acq: 20 Jan 2023 14:49

Instrument :
MSVOA_N
ClientSampleId :
FB01

Tgt Ion:180 Resp: 115
Ion Ratio Lower Upper
180 100
182 61.7 47.0 141.2
145 0.0 15.2 45.5#



#95
Naphthalene
Concen: 1.950 ug/l
RT: 15.635 min Scan# 2309
Delta R.T. -0.006 min
Lab File: VN076347.D
Acq: 20 Jan 2023 14:49

Tgt Ion:128 Resp: 1268
Ion Ratio Lower Upper
128 100
127 13.2 10.3 15.5
129 0.0 8.6 13.0#

