

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011123\
 Data File : VN076203.D
 Acq On : 11 Jan 2023 12:28
 Operator : JC\MD
 Sample : 01106-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MH-3

Quant Time: Jan 12 00:33:36 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121422W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 14 13:03:41 2022
 Response via : Initial Calibration

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

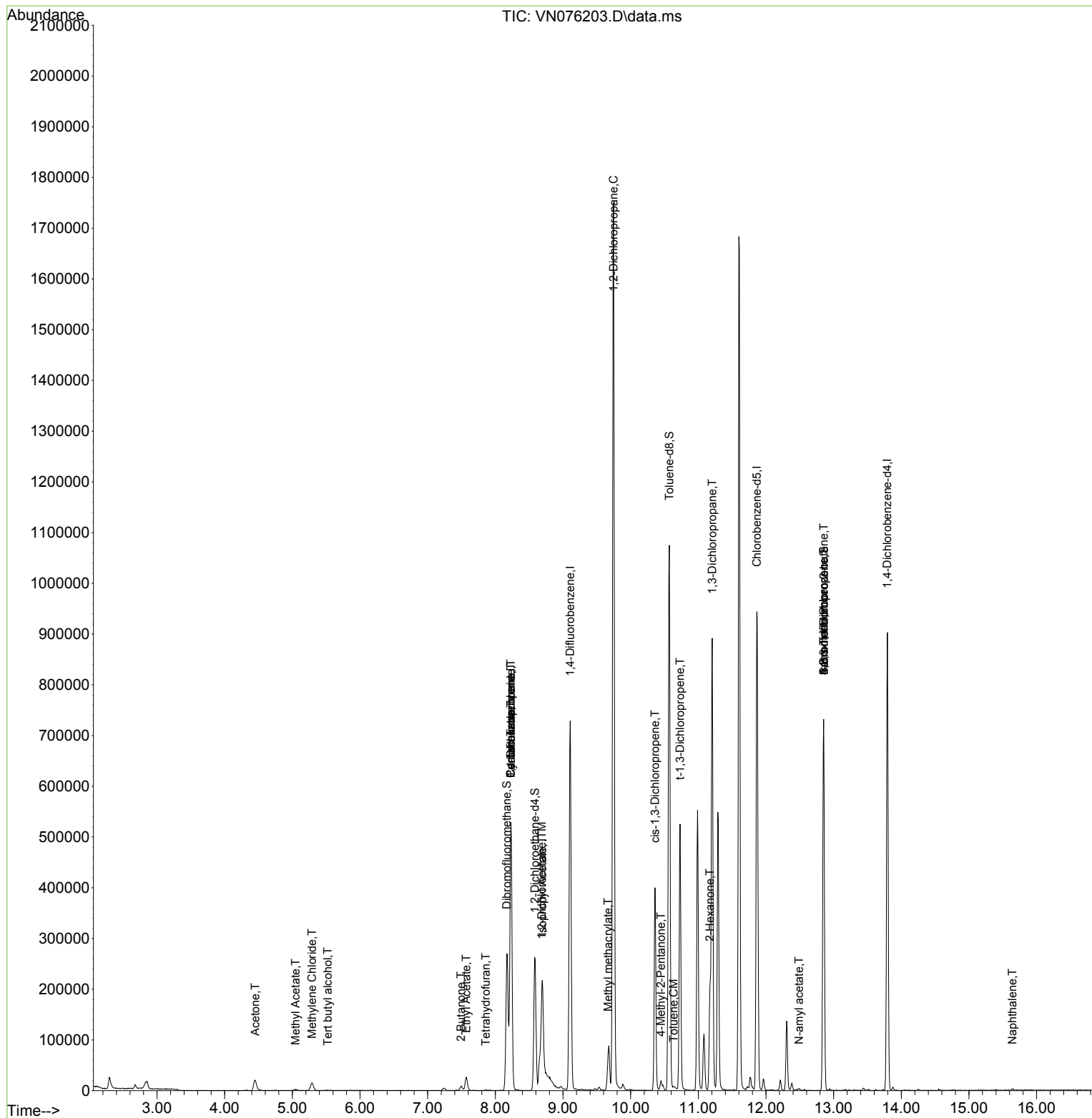
Internal Standards						
1) Pentafluorobenzene	8.230	168	414720	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	662471	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	588334	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	248340	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	212587	47.118	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	94.240%		
35) Dibromofluoromethane	8.171	113	194343	47.371	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.740%		
50) Toluene-d8	10.571	98	765903	49.931	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	99.860%		
62) 4-Bromofluorobenzene	12.853	95	246047	48.430	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	96.860%		
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.524	59	288	0.451	ug/l #	72
16) Acetone	4.453	43	40793	26.228	ug/l	93
18) Methyl Acetate	5.047	43	4194	0.912	ug/l #	74
20) Methylene Chloride	5.289	84	12830	2.475	ug/l	92
25) 2-Butanone	7.494	43	13434	6.169	ug/l	93
29) Tetrahydrofuran	7.859	42	821	0.602	ug/l #	57
31) Cyclohexane	8.230	56	7591	1.175	ug/l #	20
36) 1,1-Dichloropropene	8.230	75	30041	5.512	ug/l #	50
37) Ethyl Acetate	7.571	43	39187	8.952	ug/l	99
38) Carbon Tetrachloride	8.230	117	39245	6.434	ug/l #	17
42) 1,2-Dichloroethane	8.688	62	1550	0.277	ug/l #	72
43) Isopropyl Acetate	8.694	43	316774	43.868	ug/l #	74
45) 1,2-Dichloropropane	9.747	63	2399	0.586	ug/l #	43
48) Methyl methacrylate	9.665	41	4748	1.460	ug/l #	38
51) 4-Methyl-2-Pentanone	10.447	43	10000	2.290	ug/l	97
52) Toluene	10.635	92	2204	0.201	ug/l	93
53) t-1,3-Dichloropropene	10.729	75	1437	0.247	ug/l #	59
54) cis-1,3-Dichloropropene	10.359	75	76288	11.927	ug/l #	66
57) 1,3-Dichloropropane	11.206	76	9540	1.353	ug/l #	42
59) 2-Hexanone	11.171	43	149927	47.076	ug/l #	20
71) Bromoform	12.853	173	1671	0.513	ug/l #	1
74) N-amyl acetate	12.488	43	1460	0.277	ug/l #	47
76) 1,2,3-Trichloropropane	12.853	75	126958	25.362	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	126958	91.289	ug/l #	12
95) Naphthalene	15.641	128	2708	2.369	ug/l #	85

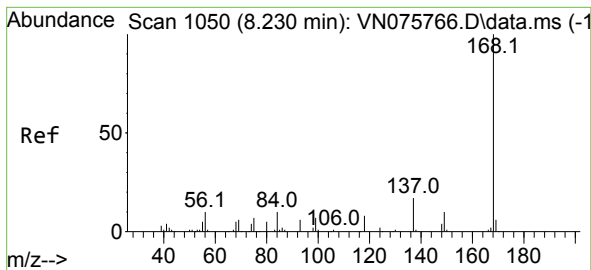
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Dec 14 13:03:41 2022
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN076203.D

Acq: 11 Jan 2023 12:28

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MSVOA_N

ClientSampleId :

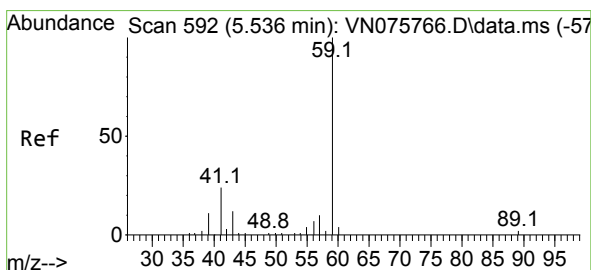
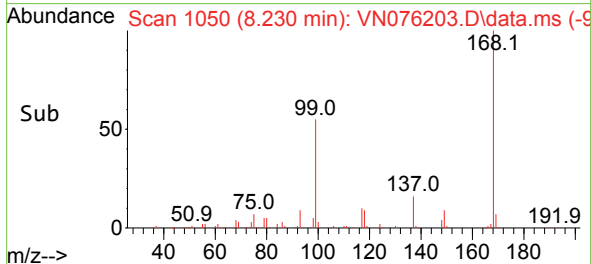
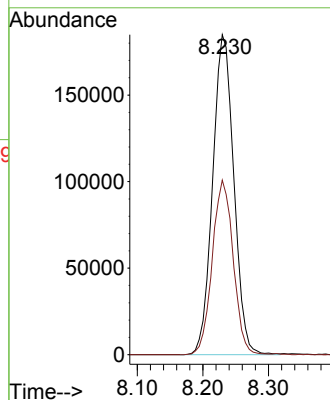
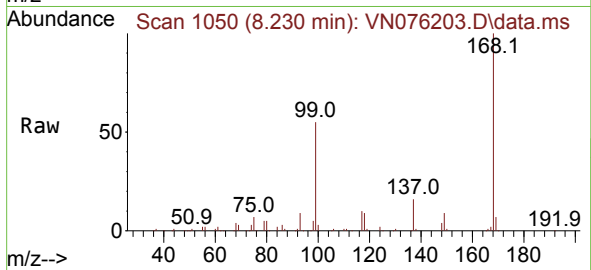
MH-3

Tgt Ion:168 Resp: 414720

Ion Ratio Lower Upper

168 100

99 54.6 44.2 66.4



#11

Tert butyl alcohol

Concen: 0.451 ug/l

RT: 5.524 min Scan# 590

Delta R.T. -0.012 min

Lab File: VN076203.D

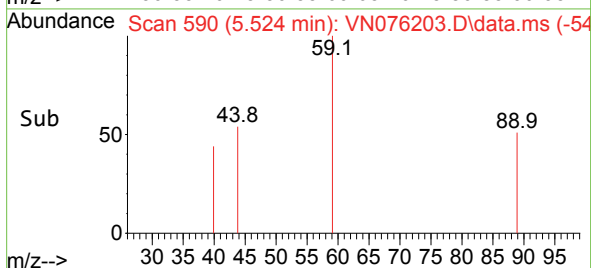
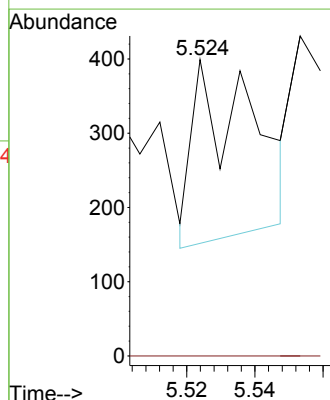
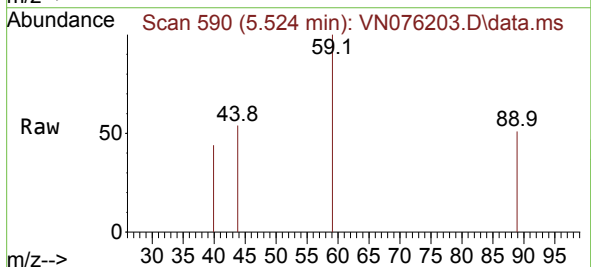
Acq: 11 Jan 2023 12:28

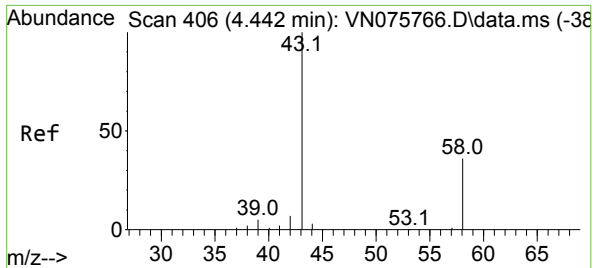
Tgt Ion: 59 Resp: 288

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#





#16

Acetone

Concen: 26.228 ug/l

RT: 4.453 min Scan# 406

Delta R.T. 0.012 min

Lab File: VN076203.D

Acq: 11 Jan 2023 12:28

Instrument :

MSVOA_N

ClientSampleId :

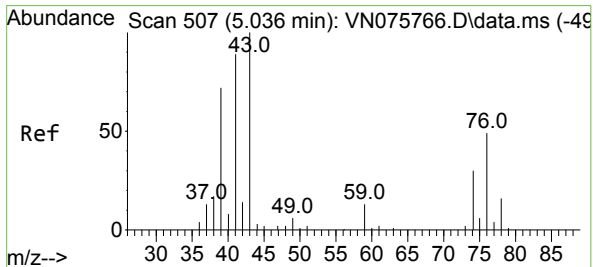
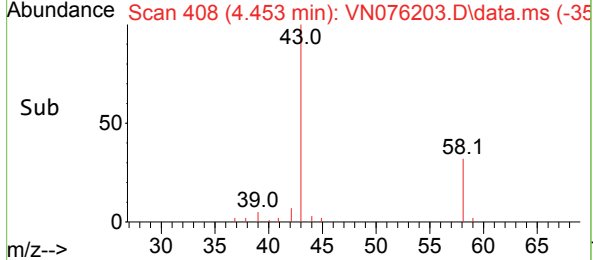
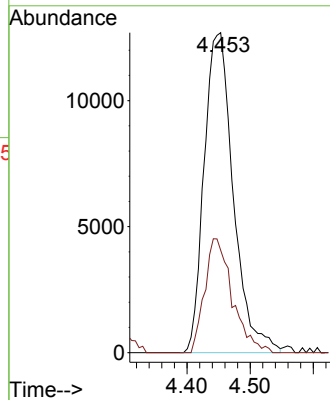
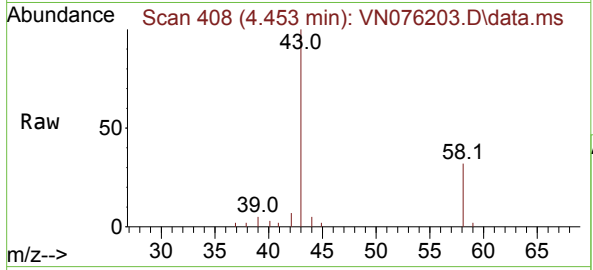
MH-3

Tgt Ion: 43 Resp: 40793

Ion Ratio Lower Upper

43 100

58 32.0 28.6 43.0



#18

Methyl Acetate

Concen: 0.912 ug/l

RT: 5.047 min Scan# 509

Delta R.T. 0.012 min

Lab File: VN076203.D

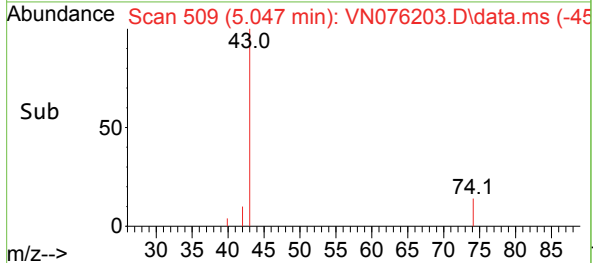
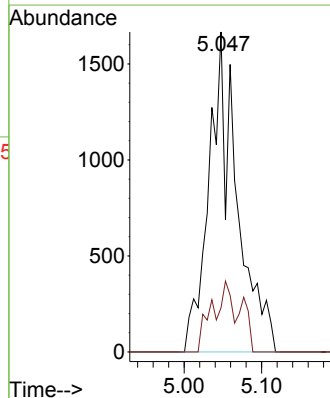
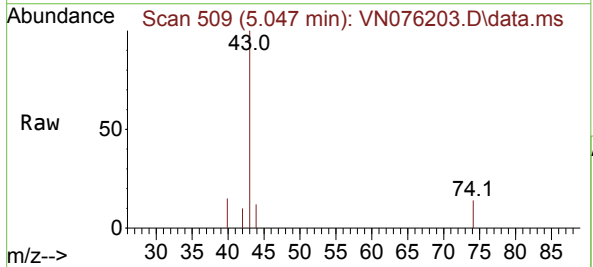
Acq: 11 Jan 2023 12:28

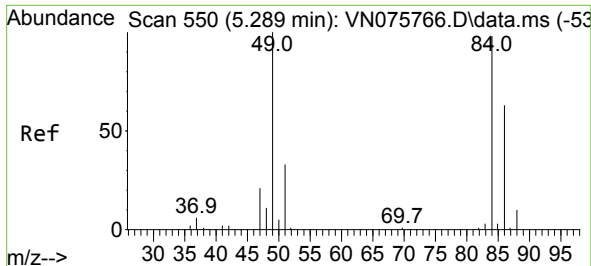
Tgt Ion: 43 Resp: 4194

Ion Ratio Lower Upper

43 100

74 15.5 23.6 35.4#

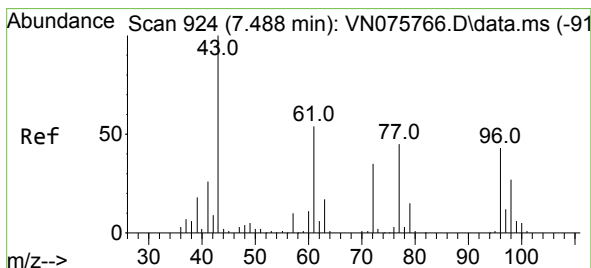
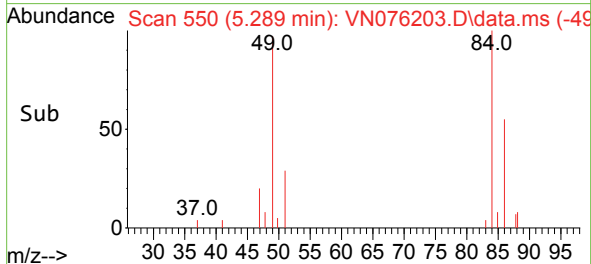
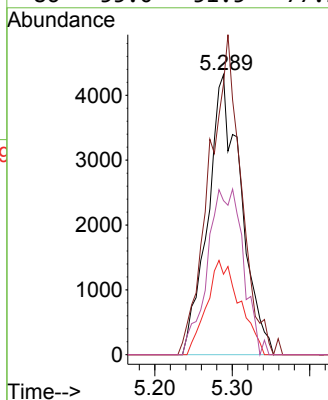
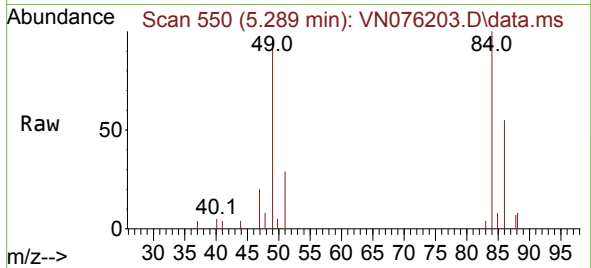




#20
Methylene Chloride
Concen: 2.475 ug/l
RT: 5.289 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN076203.D
Acq: 11 Jan 2023 12:28

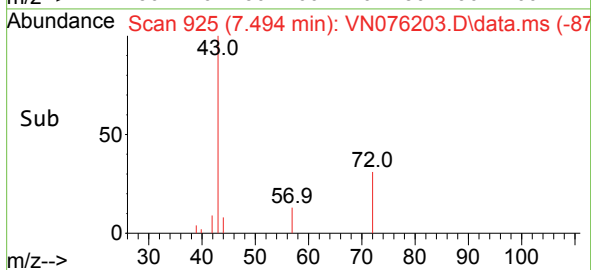
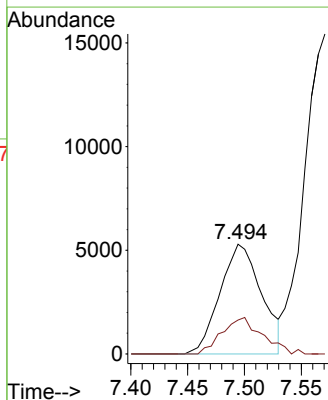
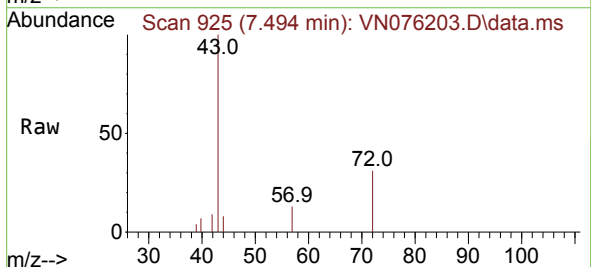
Instrument :
MSVOA_N
ClientSampleId :
MH-3

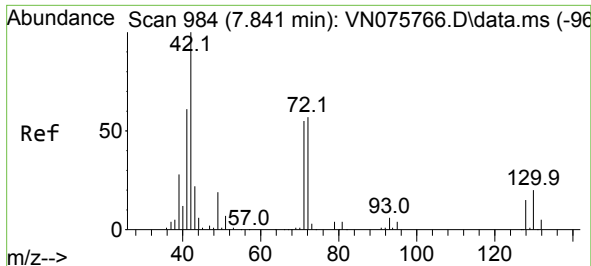
Tgt Ion: 84	Resp: 12830
Ion Ratio	Lower Upper
84 100	
49 96.6	81.8 122.6
51 28.7	26.7 40.1
86 55.0	51.5 77.3



#25
2-Butanone
Concen: 6.169 ug/l
RT: 7.494 min Scan# 925
Delta R.T. 0.006 min
Lab File: VN076203.D
Acq: 11 Jan 2023 12:28

Tgt Ion: 43	Resp: 13434
Ion Ratio	Lower Upper
43 100	
72 30.9	28.0 42.0





#29

Tetrahydrofuran

Concen: 0.602 ug/l

RT: 7.859 min Scan# 91

Delta R.T. 0.018 min

Lab File: VN076203.D

Acq: 11 Jan 2023 12:28

Instrument :

MSVOA_N

ClientSampleId :

MH-3

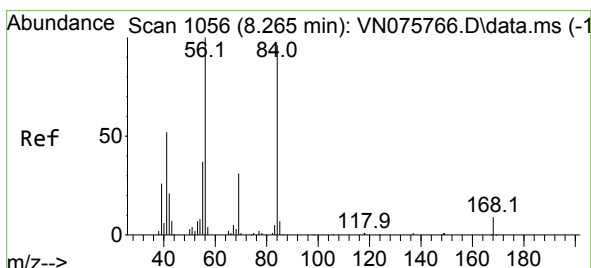
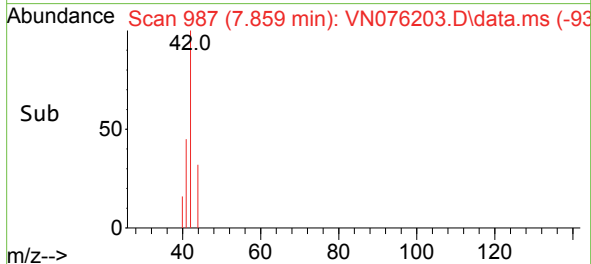
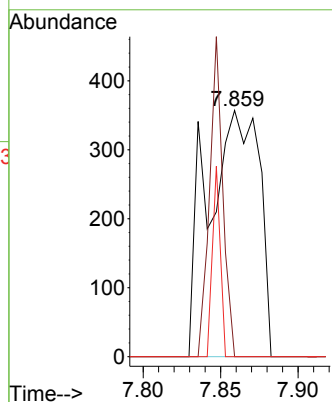
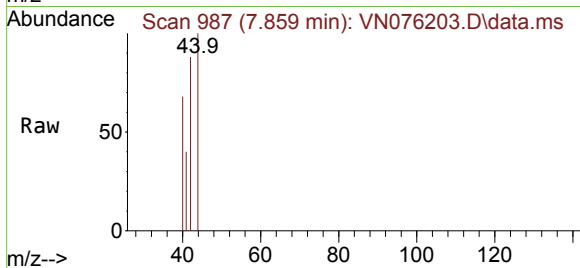
Tgt Ion: 42 Resp: 821

Ion Ratio Lower Upper

42 100

72 33.5 44.5 66.7#

71 11.8 41.0 61.6#



#31

Cyclohexane

Concen: 1.175 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.035 min

Lab File: VN076203.D

Acq: 11 Jan 2023 12:28

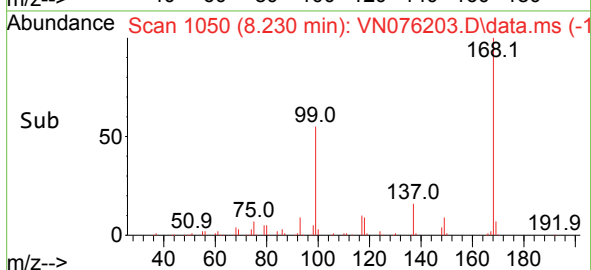
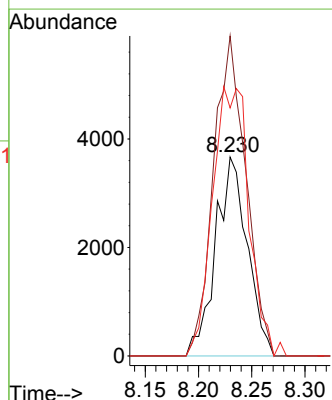
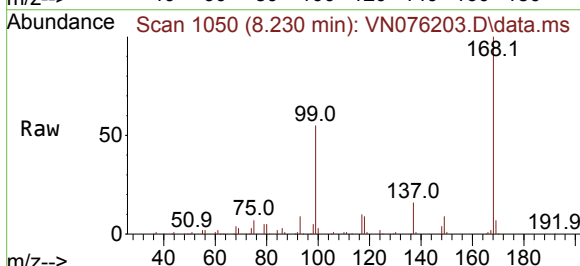
Tgt Ion: 56 Resp: 7591

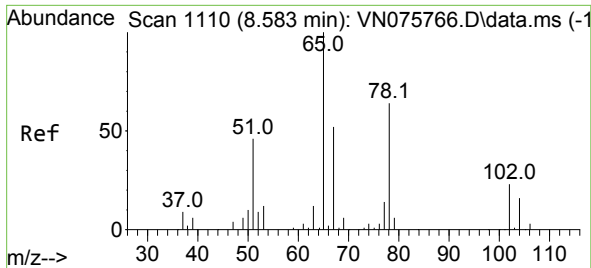
Ion Ratio Lower Upper

56 100

69 160.9 24.7 37.1#

84 124.7 76.5 114.7#





#33

1,2-Dichloroethane-d4

Concen: 47.118 ug/l

RT: 8.582 min Scan# 1110

Delta R.T. -0.000 min

Lab File: VN076203.D

Acq: 11 Jan 2023 12:28

Instrument :

MSVOA_N

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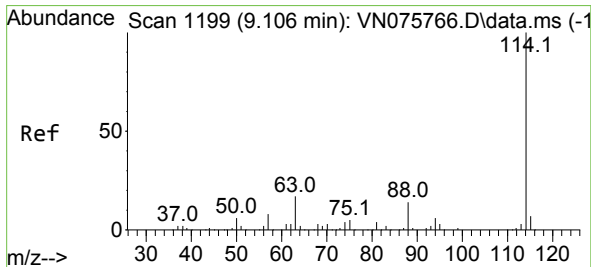
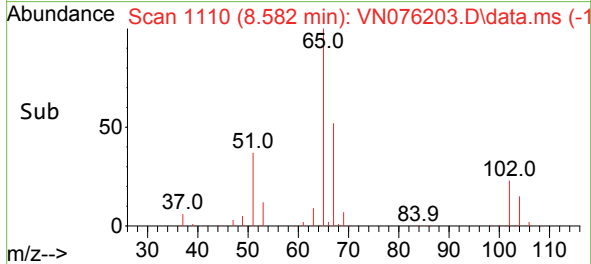
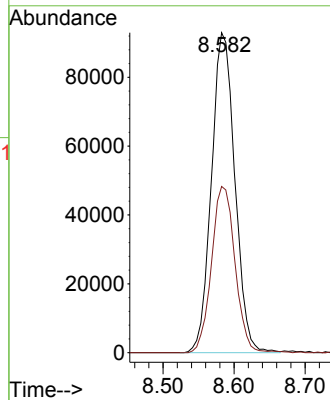
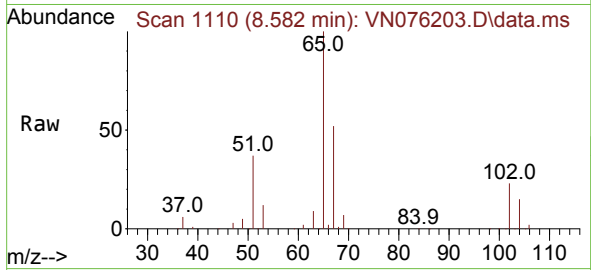
MH-3

Tgt Ion: 65 Resp: 212587

Ion Ratio Lower Upper

65 100

67 52.2 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. -0.000 min

Lab File: VN076203.D

Acq: 11 Jan 2023 12:28

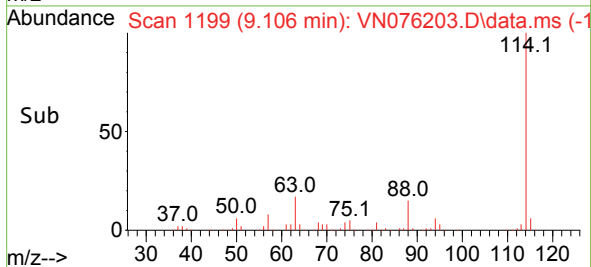
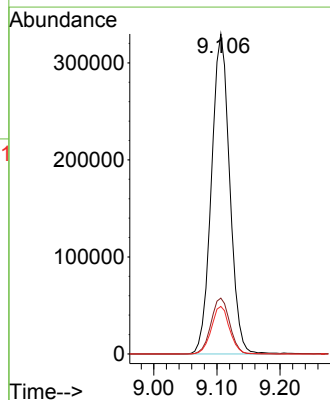
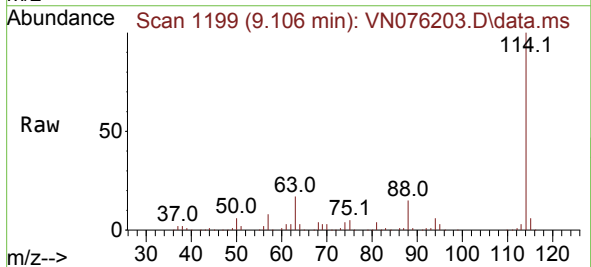
Tgt Ion:114 Resp: 662471

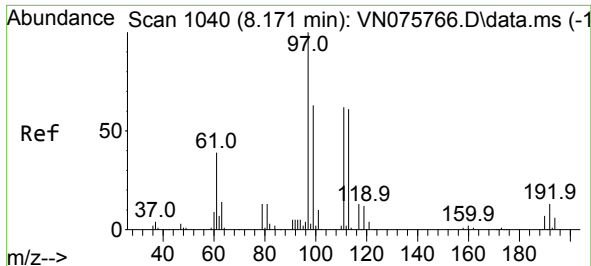
Ion Ratio Lower Upper

114 100

63 17.4 0.0 34.4

88 14.8 0.0 28.8

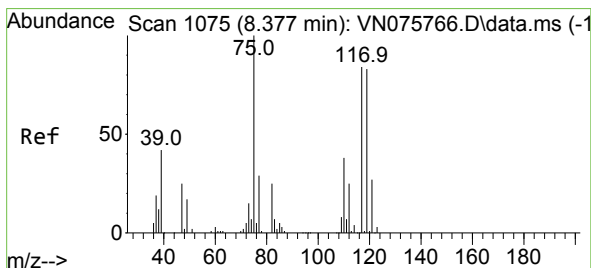
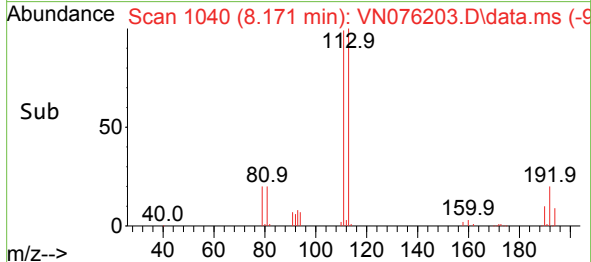
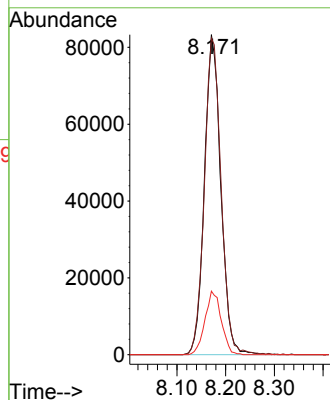
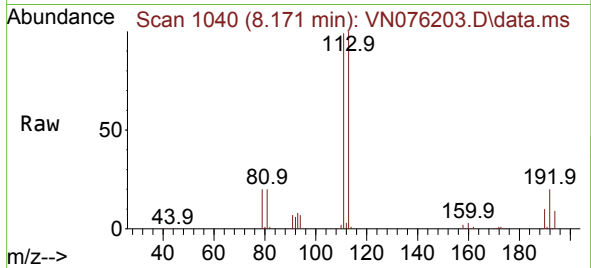




#35
Dibromofluoromethane
Concen: 47.371 ug/l
RT: 8.171 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VN076203.D
Acq: 11 Jan 2023 12:28

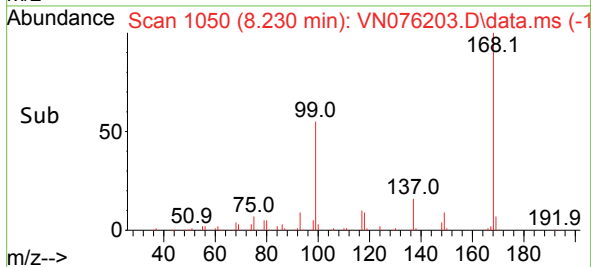
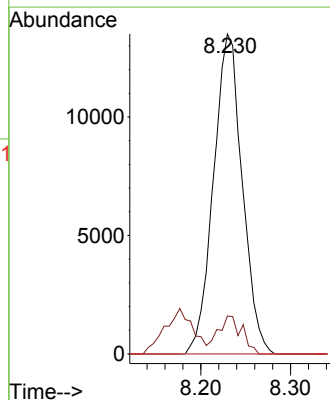
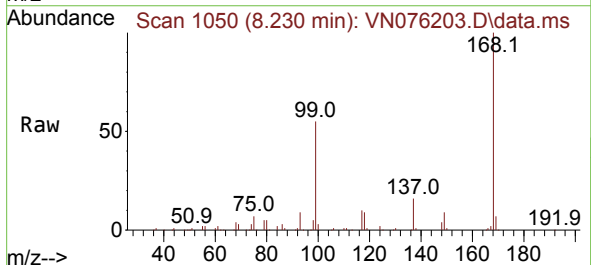
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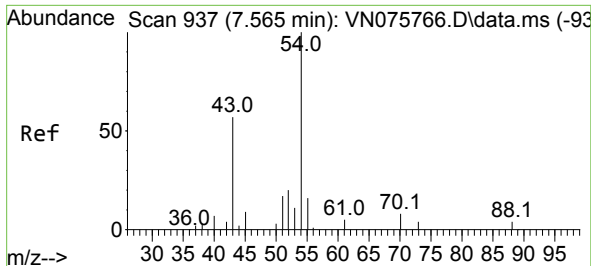
Tgt Ion:113 Resp: 194343
Ion Ratio Lower Upper
113 100
111 101.3 83.4 125.2
192 19.8 16.1 24.1



#36
1,1-Dichloropropene
Concen: 5.512 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.147 min
Lab File: VN076203.D
Acq: 11 Jan 2023 12:28

Tgt Ion: 75 Resp: 30041
Ion Ratio Lower Upper
75 100
110 9.9 18.8 56.4#
77 0.0 24.1 36.1#





#37

Ethyl Acetate

Concen: 8.952 ug/l

RT: 7.571 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN076203.D

Acq: 11 Jan 2023 12:28

Instrument :

MSVOA_N

ClientSampleId :

MH-3

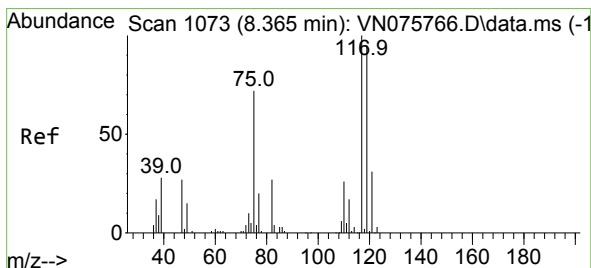
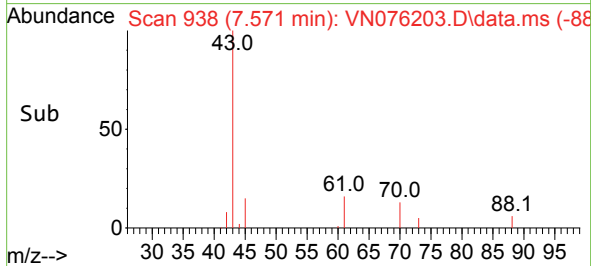
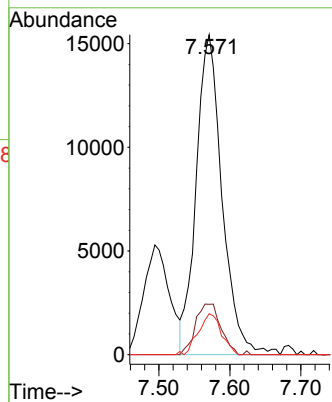
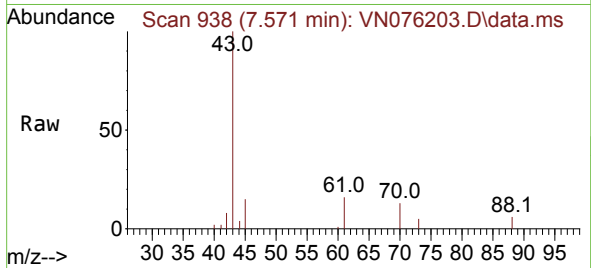
Tgt Ion: 43 Resp: 39187

Ion Ratio Lower Upper

43 100

61 15.5 13.0 19.4

70 11.4 9.4 14.0



#38

Carbon Tetrachloride

Concen: 6.434 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.135 min

Lab File: VN076203.D

Acq: 11 Jan 2023 12:28

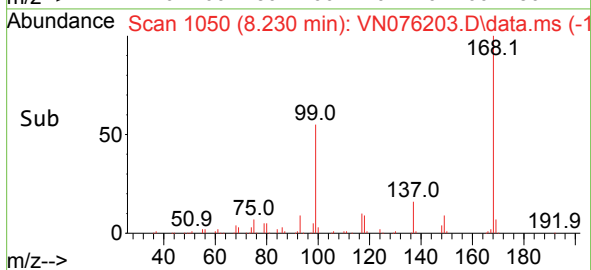
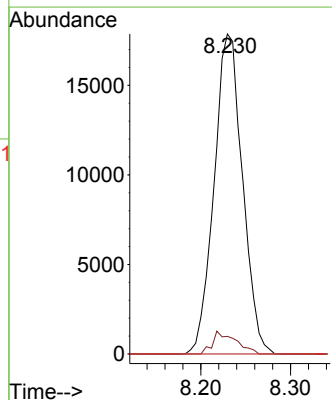
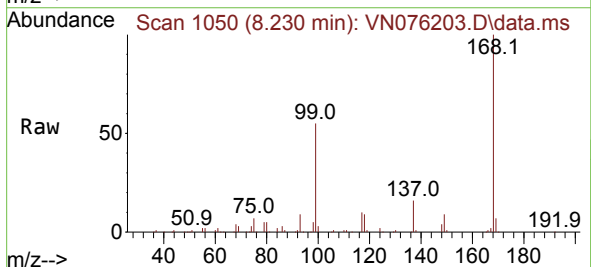
Tgt Ion: 117 Resp: 39245

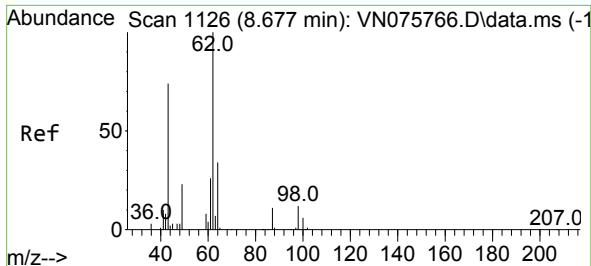
Ion Ratio Lower Upper

117 100

119 5.5 76.1 114.1#

121 0.0 24.5 36.7#





#42

1,2-Dichloroethane

Concen: 0.277 ug/l

RT: 8.688 min Scan# 1128

Delta R.T. 0.012 min

Lab File: VN076203.D

Acq: 11 Jan 2023 12:28

Instrument :

MSVOA_N

ClientSampleId :

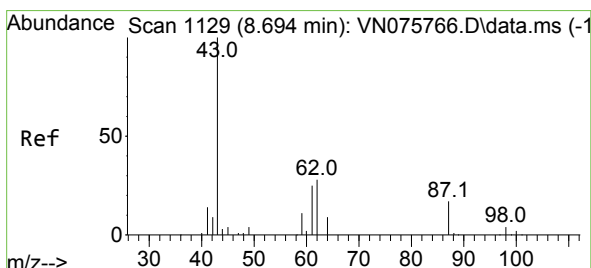
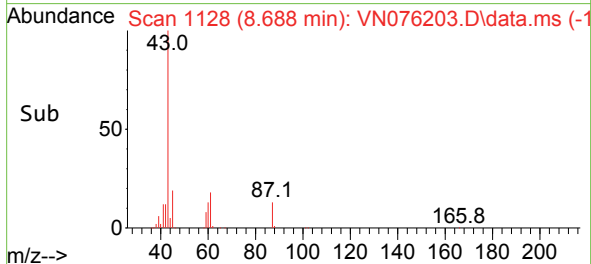
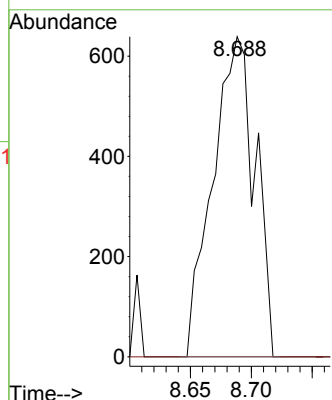
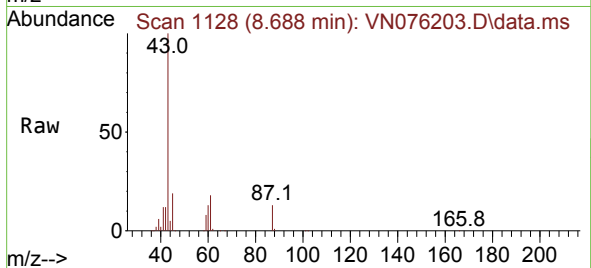
MH-3

Tgt Ion: 62 Resp: 1550

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.8



#43

Isopropyl Acetate

Concen: 43.868 ug/l

RT: 8.694 min Scan# 1129

Delta R.T. -0.000 min

Lab File: VN076203.D

Acq: 11 Jan 2023 12:28

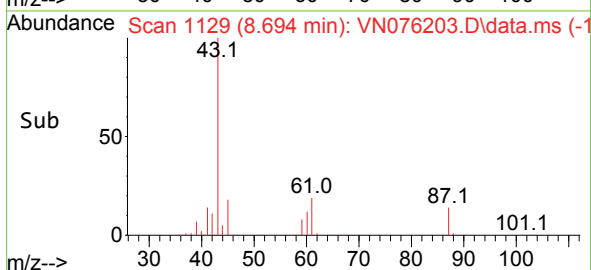
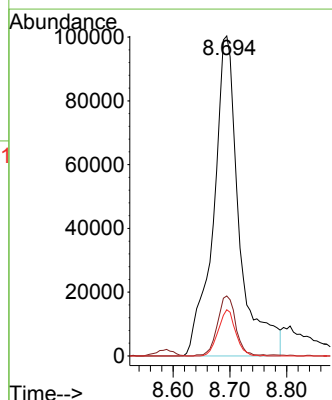
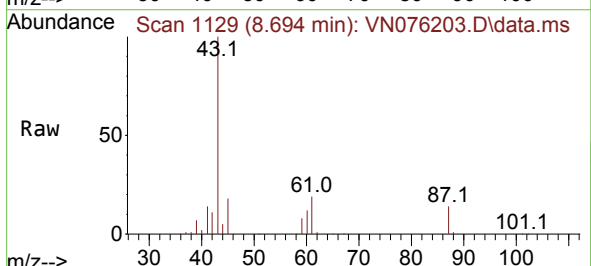
Tgt Ion: 43 Resp: 316774

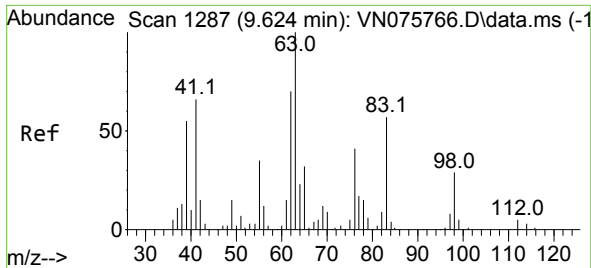
Ion Ratio Lower Upper

43 100

61 13.4 24.2 36.4#

87 9.8 13.3 19.9#

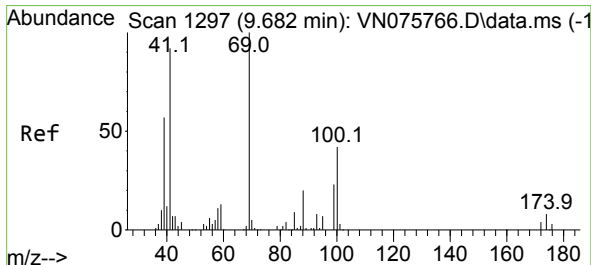
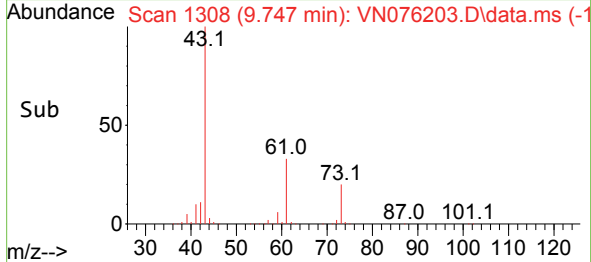
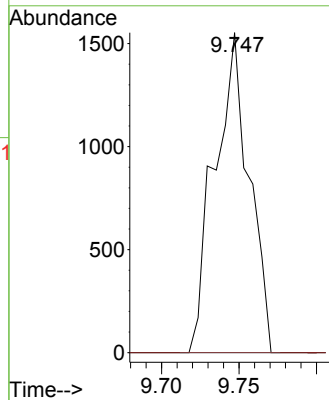
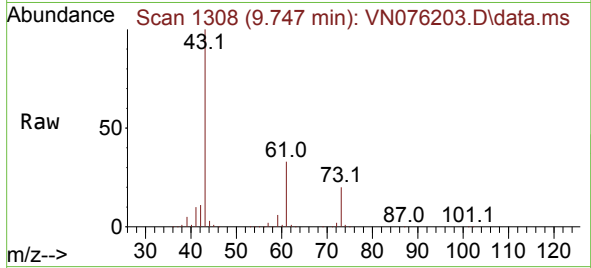




#45
1,2-Dichloropropane
Concen: 0.586 ug/l
RT: 9.747 min Scan# 11
Delta R.T. 0.123 min
Lab File: VN076203.D
Acq: 11 Jan 2023 12:28

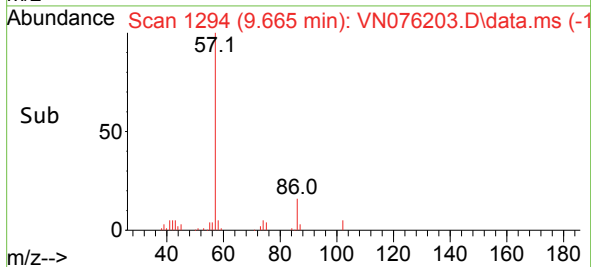
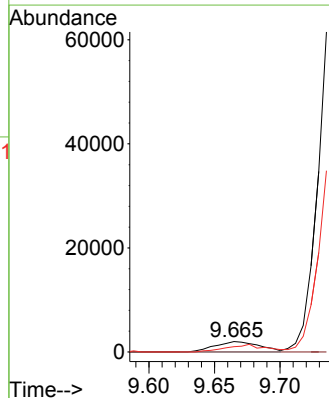
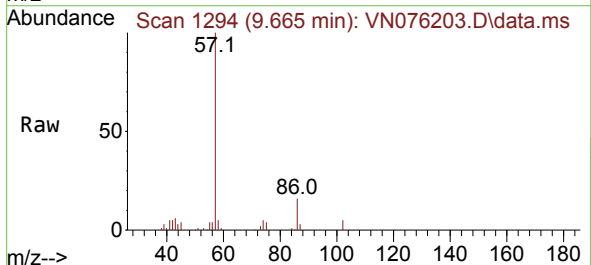
Instrument :
MSVOA_N
ClientSampleId :
MH-3

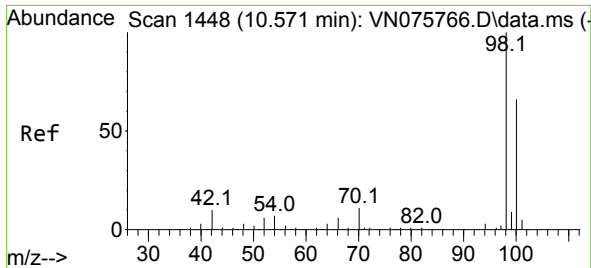
Tgt Ion: 63 Resp: 2399
Ion Ratio Lower Upper
63 100
65 0.0 25.7 38.5#



#48
Methyl methacrylate
Concen: 1.460 ug/l
RT: 9.665 min Scan# 1294
Delta R.T. -0.018 min
Lab File: VN076203.D
Acq: 11 Jan 2023 12:28

Tgt Ion: 41 Resp: 4748
Ion Ratio Lower Upper
41 100
69 0.0 81.9 122.9#
39 64.4 51.6 77.4

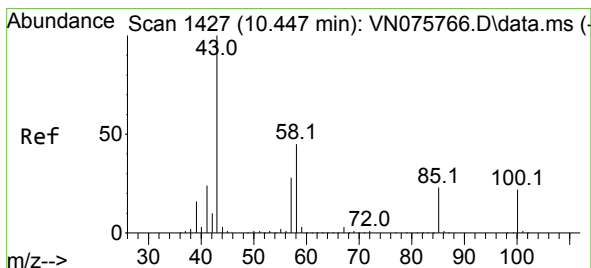
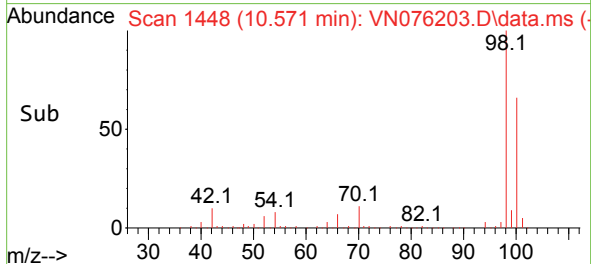
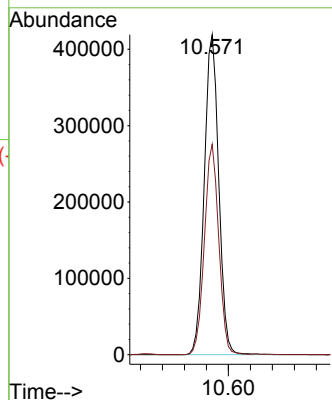
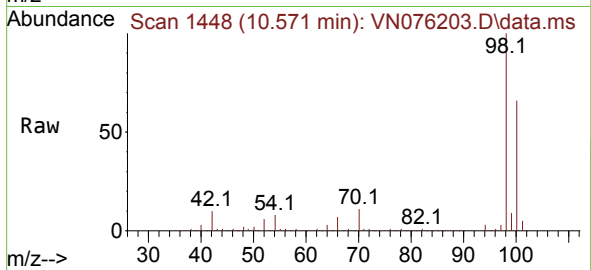




#50
Toluene-d8
Concen: 49.931 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. -0.000 min
Lab File: VN076203.D
Acq: 11 Jan 2023 12:28

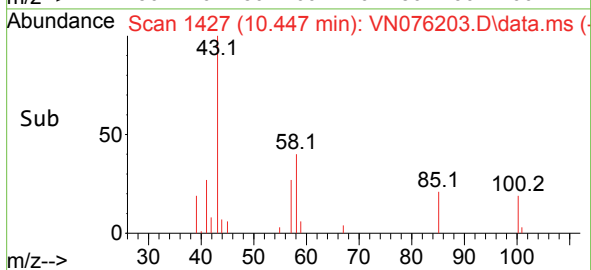
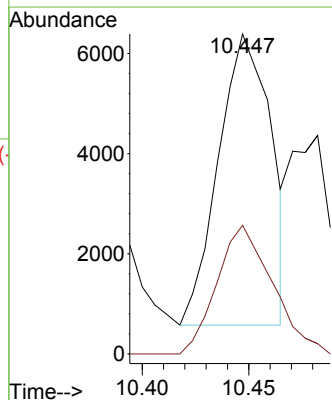
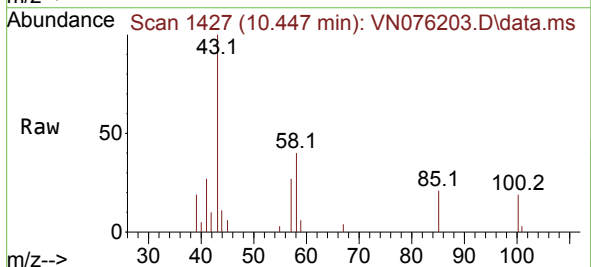
Instrument :
MSVOA_N
ClientSampleId :
MH-3

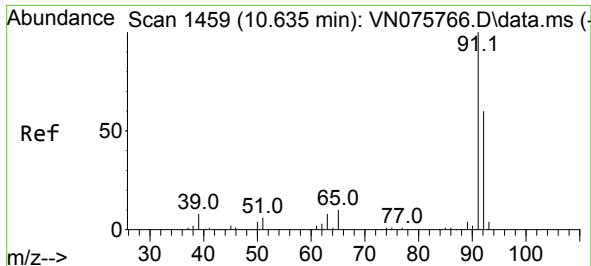
Tgt Ion: 98 Resp: 765903
Ion Ratio Lower Upper
98 100
100 65.1 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 2.290 ug/l
RT: 10.447 min Scan# 1427
Delta R.T. -0.000 min
Lab File: VN076203.D
Acq: 11 Jan 2023 12:28

Tgt Ion: 43 Resp: 10000
Ion Ratio Lower Upper
43 100
58 46.5 35.5 53.3

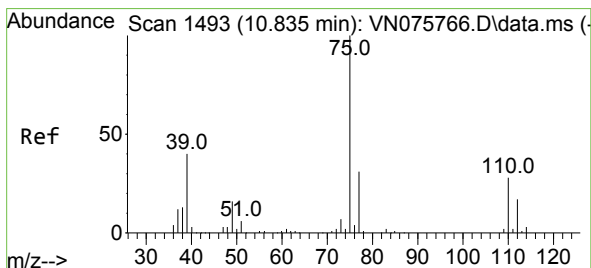
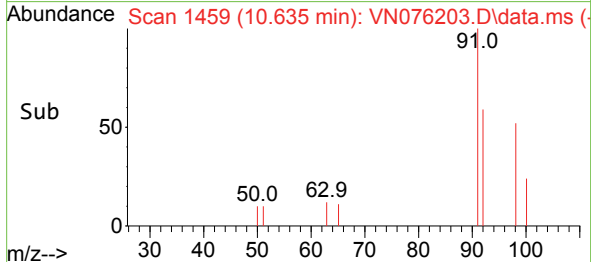
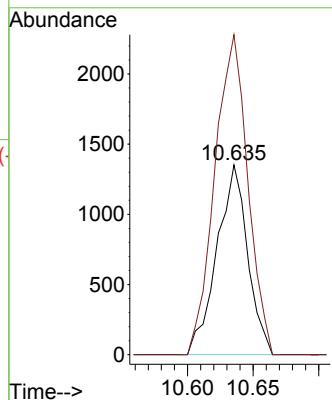
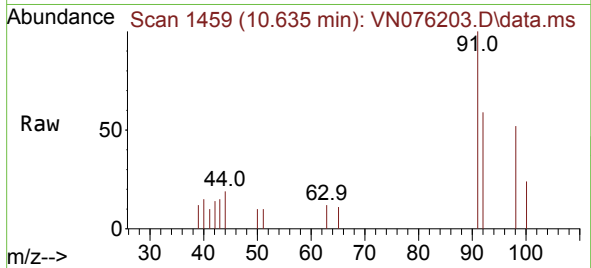




#52
Toluene
Concen: 0.201 ug/l
RT: 10.635 min Scan# 1459
Delta R.T. -0.000 min
Lab File: VN076203.D
Acq: 11 Jan 2023 12:28

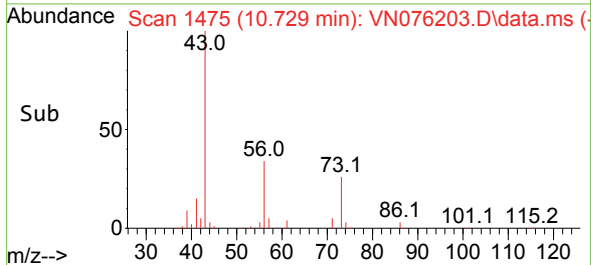
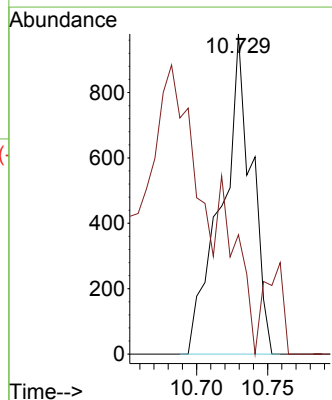
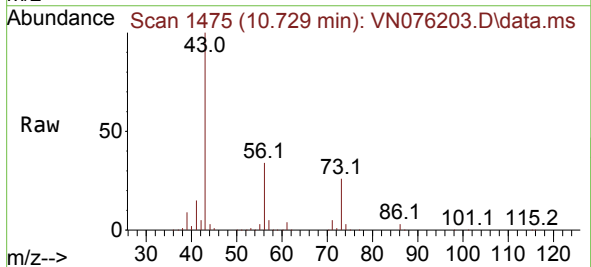
Instrument :
MSVOA_N
ClientSampleId :
MH-3

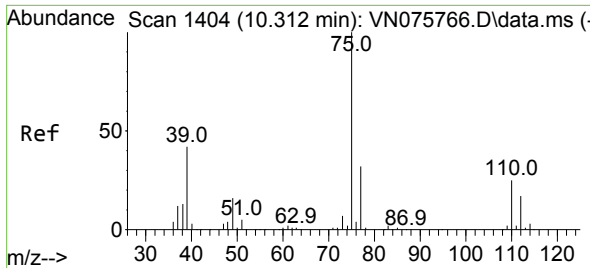
Tgt Ion: 92 Resp: 2204
Ion Ratio Lower Upper
92 100
91 180.9 137.3 205.9



#53
t-1,3-Dichloropropene
Concen: 0.247 ug/l
RT: 10.729 min Scan# 1475
Delta R.T. -0.106 min
Lab File: VN076203.D
Acq: 11 Jan 2023 12:28

Tgt Ion: 75 Resp: 1437
Ion Ratio Lower Upper
75 100
77 8.7 24.9 37.3#

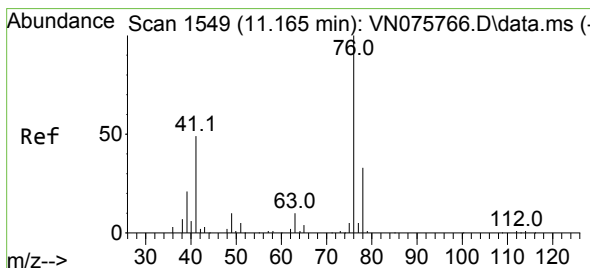
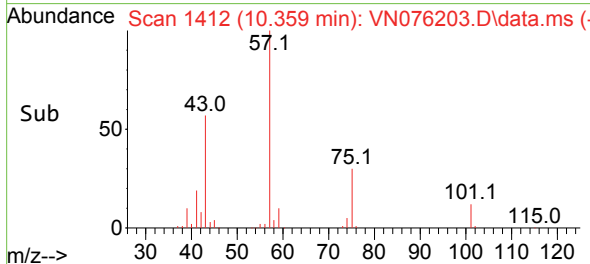
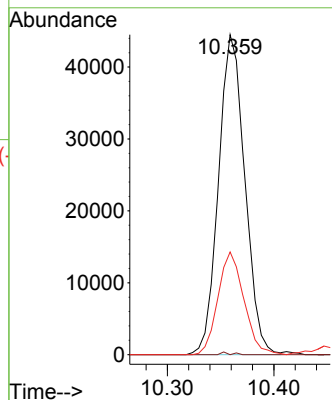
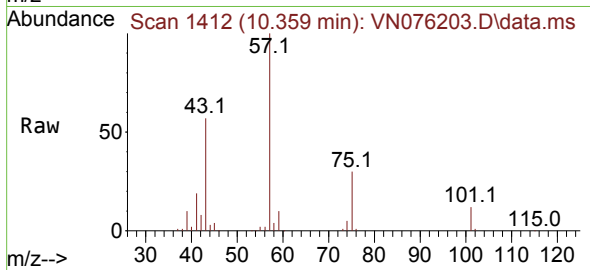




#54
 cis-1,3-Dichloropropene
 Concen: 11.927 ug/l
 RT: 10.359 min Scan# 1412
 Delta R.T. 0.047 min
 Lab File: VN076203.D
 Acq: 11 Jan 2023 12:28

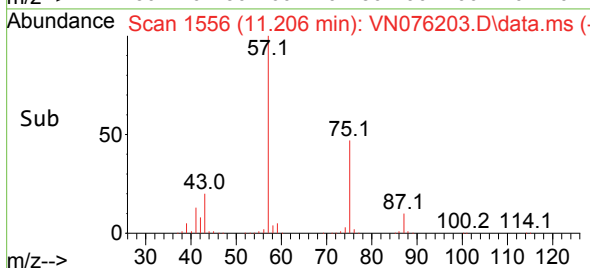
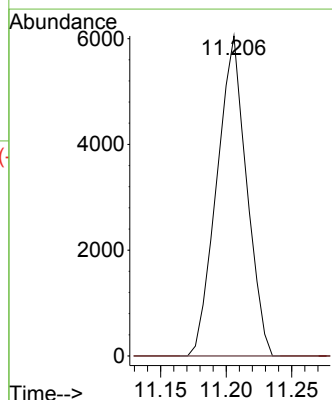
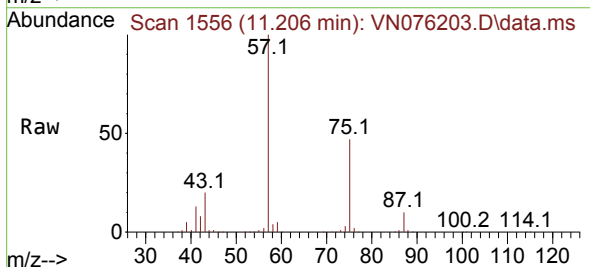
Instrument :
 MSVOA_N
 ClientSampleId :
 MH-3

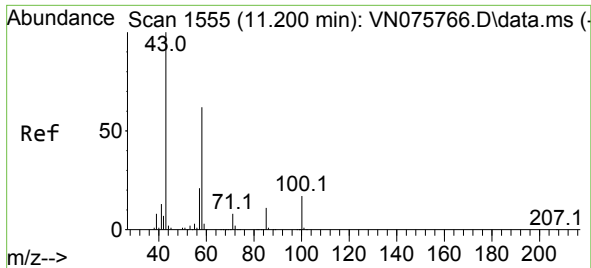
Tgt Ion: 75 Resp: 76288
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.8 38.8#
 39 32.1 33.4 50.2#



#57
 1,3-Dichloropropane
 Concen: 1.353 ug/l
 RT: 11.206 min Scan# 1556
 Delta R.T. 0.041 min
 Lab File: VN076203.D
 Acq: 11 Jan 2023 12:28

Tgt Ion: 76 Resp: 9540
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.2#

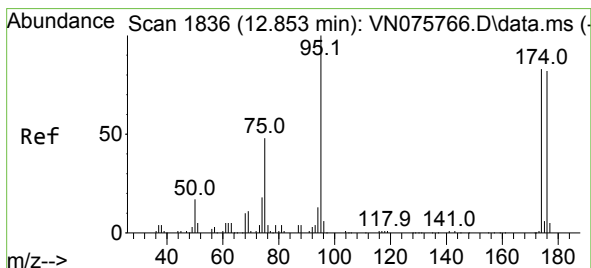
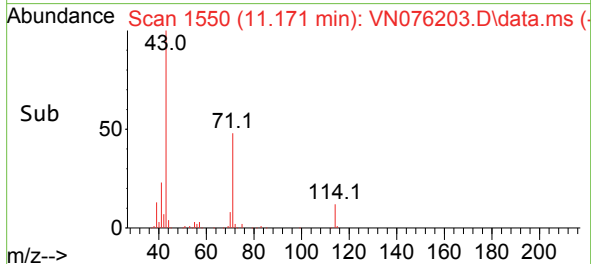
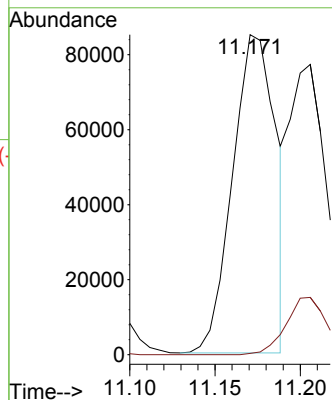
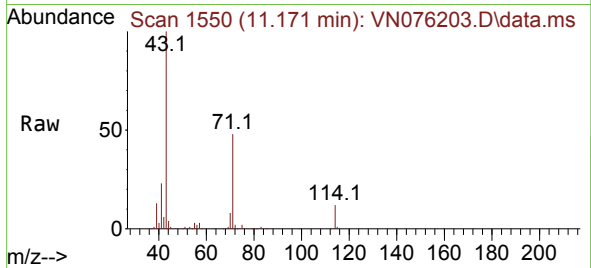




#59
2-Hexanone
Concen: 47.076 ug/l
RT: 11.171 min Scan# 1150
Delta R.T. -0.029 min
Lab File: VN076203.D
Acq: 11 Jan 2023 12:28

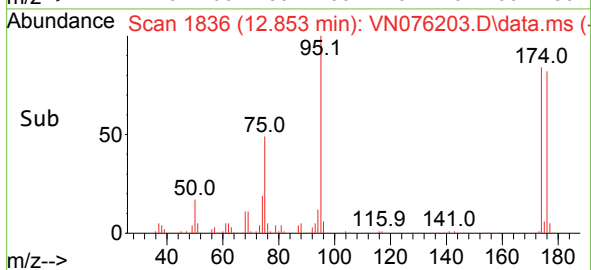
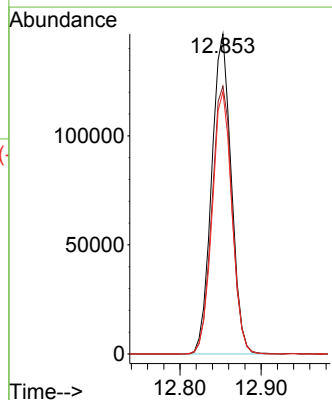
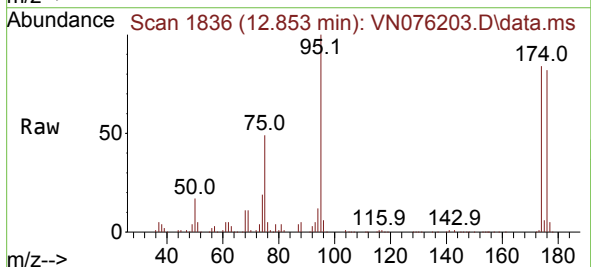
Instrument :
MSVOA_N
ClientSampleId :
MH-3

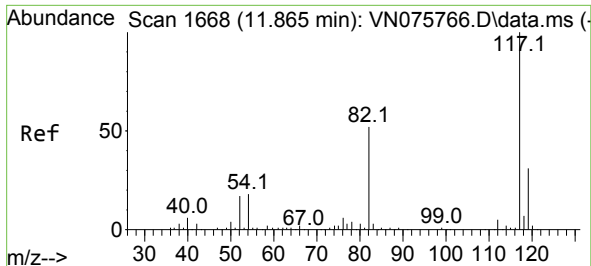
Tgt Ion: 43 Resp: 149927
Ion Ratio Lower Upper
43 100
58 0.0 30.6 92.0#



#62
4-Bromofluorobenzene
Concen: 48.430 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.000 min
Lab File: VN076203.D
Acq: 11 Jan 2023 12:28

Tgt Ion: 95 Resp: 246047
Ion Ratio Lower Upper
95 100
174 85.9 0.0 171.6
176 82.7 0.0 169.2

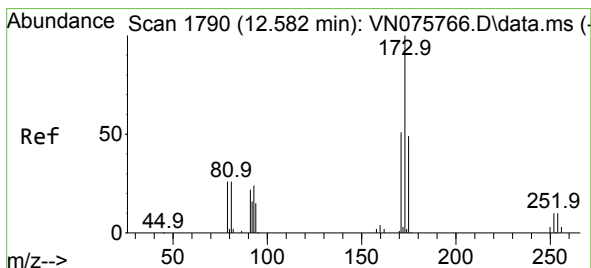
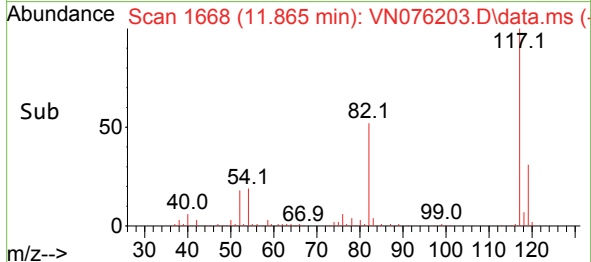
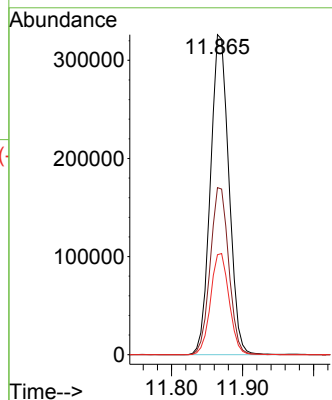
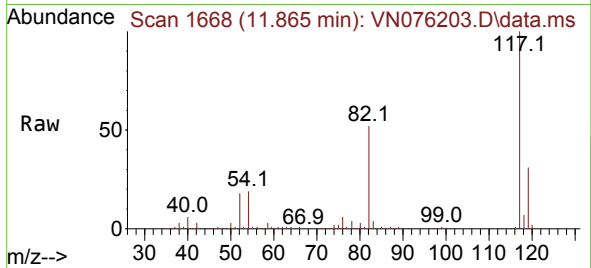




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN076203.D
Acq: 11 Jan 2023 12:28

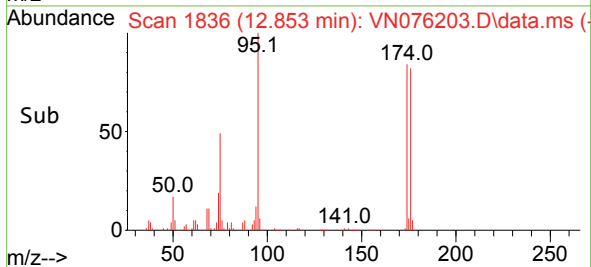
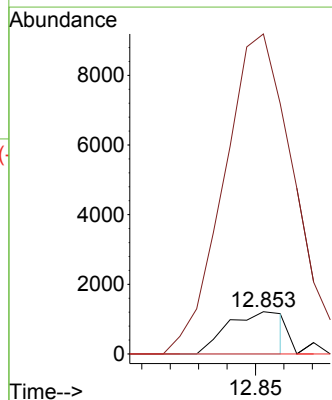
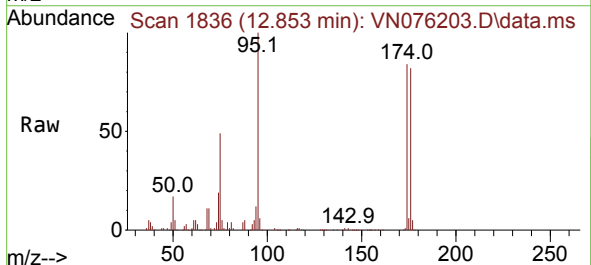
Instrument :
MSVOA_N
ClientSampleId :
MH-3

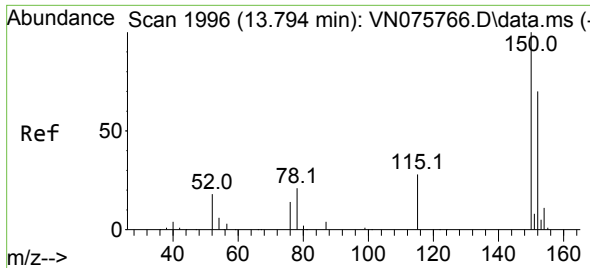
Tgt Ion:117 Resp: 588334
Ion Ratio Lower Upper
117 100
82 52.2 41.3 61.9
119 31.2 24.6 37.0



#71
Bromoform
Concen: 0.513 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.271 min
Lab File: VN076203.D
Acq: 11 Jan 2023 12:28

Tgt Ion:173 Resp: 1671
Ion Ratio Lower Upper
173 100
175 769.5 24.3 72.8#
254 0.0 0.0 0.0

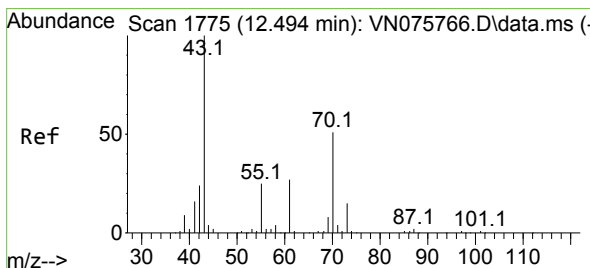
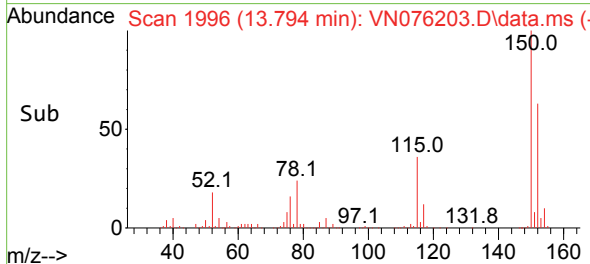
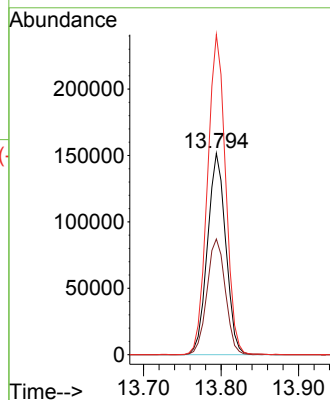
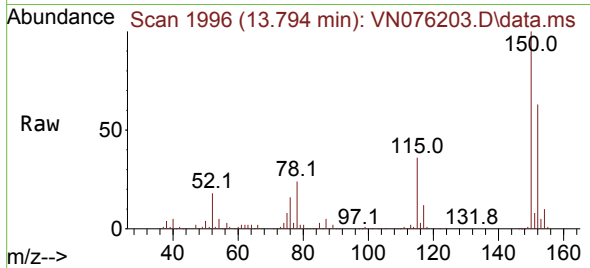




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. -0.000 min
Lab File: VN076203.D
Acq: 11 Jan 2023 12:28

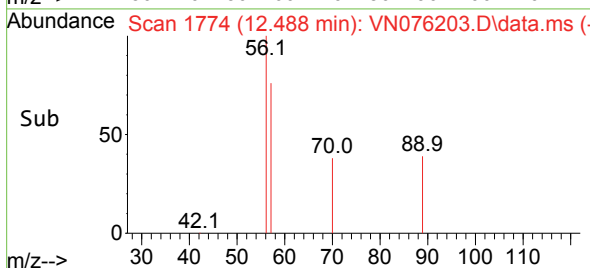
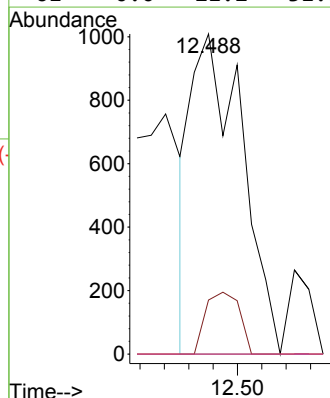
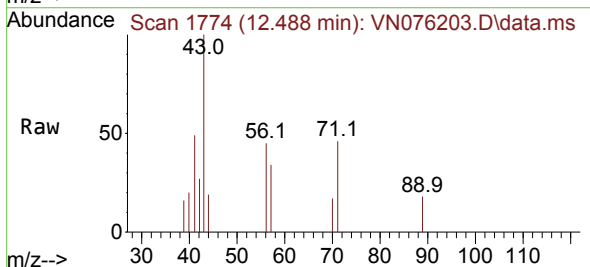
Instrument :
MSVOA_N
ClientSampleId :
MH-3

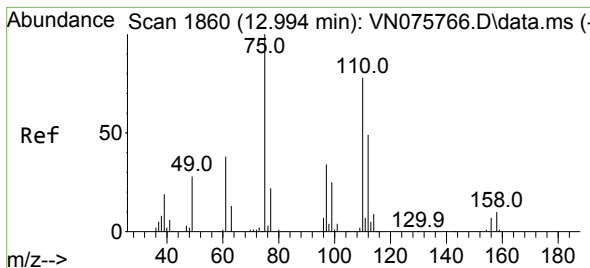
Tgt Ion:152 Resp: 248340
Ion Ratio Lower Upper
152 100
115 57.8 29.1 87.4
150 157.4 0.0 347.0



#74
N-ethyl acetate
Concen: 0.277 ug/l
RT: 12.488 min Scan# 1774
Delta R.T. -0.006 min
Lab File: VN076203.D
Acq: 11 Jan 2023 12:28

Tgt Ion: 43 Resp: 1460
Ion Ratio Lower Upper
43 100
70 12.9 41.4 62.0#
55 0.0 21.3 31.9#
61 0.0 21.2 31.8#





#76

1,2,3-Trichloropropane

Concen: 25.362 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. -0.141 min

Lab File: VN076203.D

Acq: 11 Jan 2023 12:28

Instrument :

MSVOA_N

ClientSampleId :

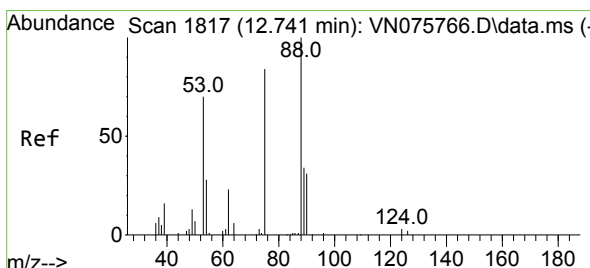
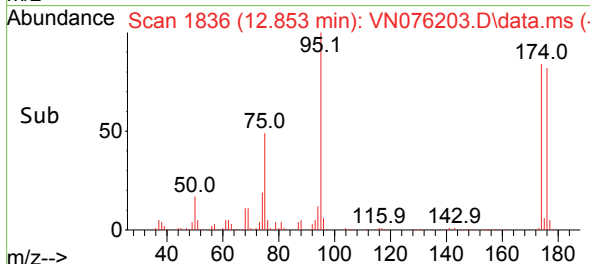
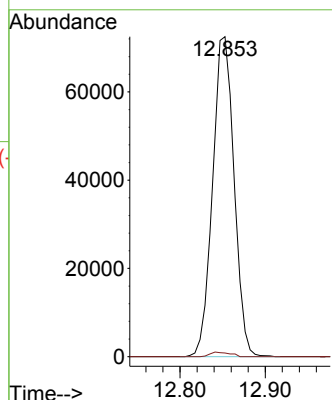
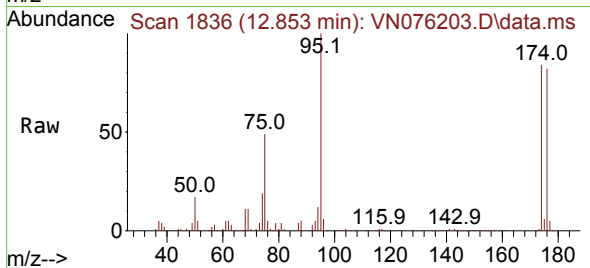
MH-3

Tgt Ion: 75 Resp: 126958

Ion Ratio Lower Upper

75 100

77 1.3 82.6 247.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 91.289 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. 0.112 min

Lab File: VN076203.D

Acq: 11 Jan 2023 12:28

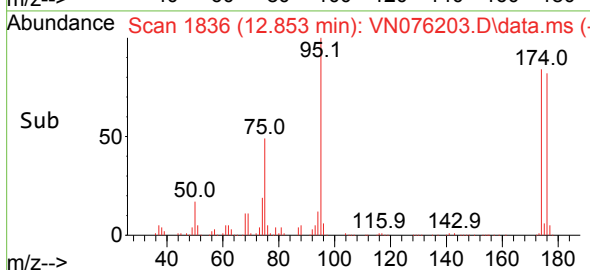
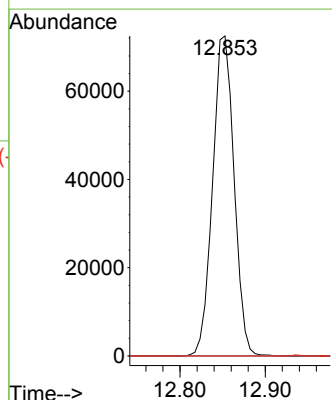
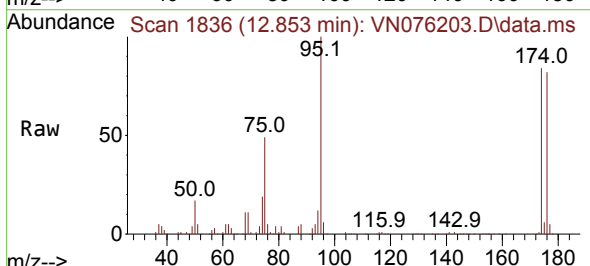
Tgt Ion: 75 Resp: 126958

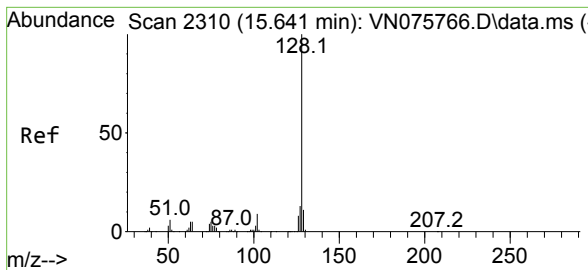
Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

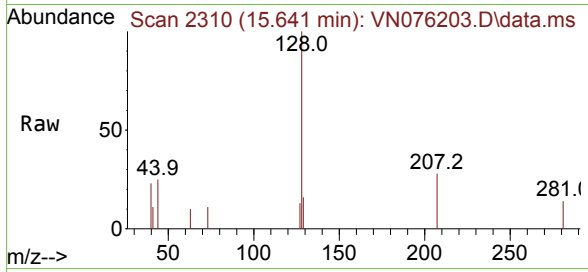
89 0.0 39.5 59.3#





#95
Naphthalene
Concen: 2.369 ug/l
RT: 15.641 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN076203.D
Acq: 11 Jan 2023 12:28

Instrument :
MSVOA_N
ClientSampleId :
MH-3



Tgt Ion:128 Resp: 2708
Ion Ratio Lower Upper
128 100
127 5.5 10.4 15.6#
129 7.0 8.7 13.1#

