

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011723\
 Data File : VN076280.D
 Acq On : 17 Jan 2023 15:12
 Operator : JC\MD
 Sample : 01159-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MH-6

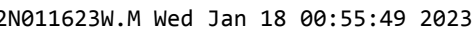
Quant Time: Jan 18 00:55:38 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011623W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 17 03:59:22 2023
 Response via : Initial Calibration

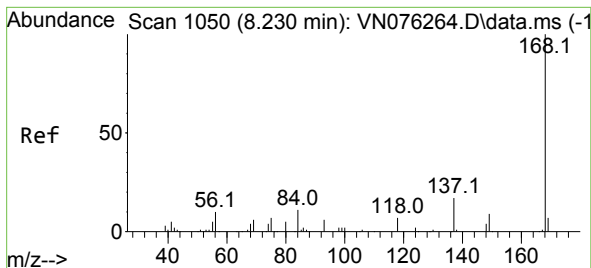
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.230	168	369519	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	605868	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	540953	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	225303	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	206180	49.833	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.660%		
35) Dibromofluoromethane	8.171	113	178989	47.227	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.460%		
50) Toluene-d8	10.571	98	708237	50.600	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	101.200%		
62) 4-Bromofluorobenzene	12.853	95	220708	48.302	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	96.600%		
Target Compounds						Qvalue
11) Tert butyl alcohol	5.524	59	857	1.549	ug/l #	72
16) Acetone	4.442	43	32621	24.528	ug/l #	86
18) Methyl Acetate	5.054	43	3702	0.824	ug/l #	54
20) Methylene Chloride	5.301	84	17914	4.010	ug/l	92
25) 2-Butanone	7.501	43	5126	2.530	ug/l	92
29) Tetrahydrofuran	7.859	42	267	0.214	ug/l #	25
31) Cyclohexane	8.230	56	7132	1.122	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	27155	5.042	ug/l #	49
37) Ethyl Acetate	7.571	43	28462	6.621	ug/l	96
38) Carbon Tetrachloride	8.230	117	35674	5.940	ug/l #	17
42) 1,2-Dichloroethane	8.695	62	1193	0.217	ug/l #	73
43) Isopropyl Acetate	8.695	43	269584	38.363	ug/l #	74
45) 1,2-Dichloropropane	9.736	63	1757	0.456	ug/l #	42
48) Methyl methacrylate	9.671	41	3878	1.166	ug/l #	40
49) 1,4-Dioxane	9.747	88	193	2.749	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	13925	3.376	ug/l #	76
54) cis-1,3-Dichloropropene	10.359	75	65647	10.602	ug/l #	61
56) Ethyl methacrylate	10.983	69	1765	0.332	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	7147	1.068	ug/l #	42
59) 2-Hexanone	11.171	43	133420	44.632	ug/l #	21
71) Bromoform	12.853	173	1452	0.473	ug/l #	1
74) N-amyl acetate	12.488	43	1562	0.312	ug/l #	37
76) 1,2,3-Trichloropropane	12.853	75	114228	27.402	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	114228	84.356	ug/l #	11
93) 1,2,4-Trichlorobenzene	15.400	180	236	1.363	ug/l #	71
95) Naphthalene	15.641	128	1627	1.973	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.853	180	273	1.225	ug/l #	36

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

Quant Time: Jan 18 00:55:38 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011623W.M
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QLast Update : Tue Jan 17 03:59:22 2023
Response via : Initial Calibration

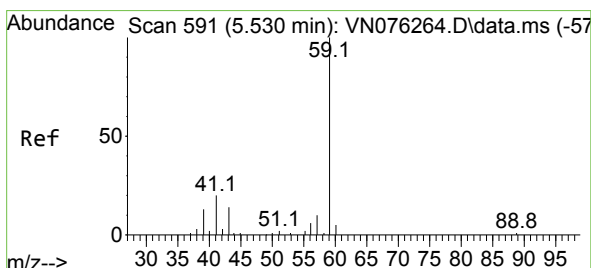
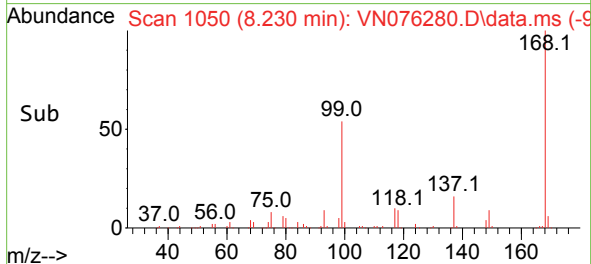
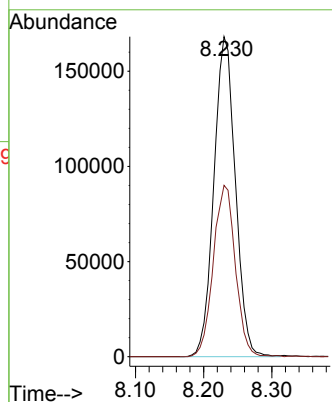
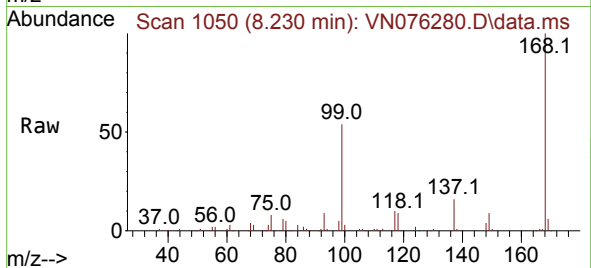




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.000 min
Lab File: VN076280.D
Acq: 17 Jan 2023 15:12

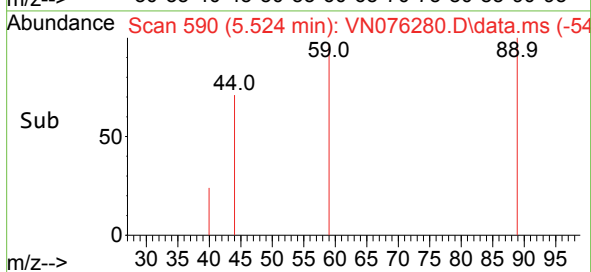
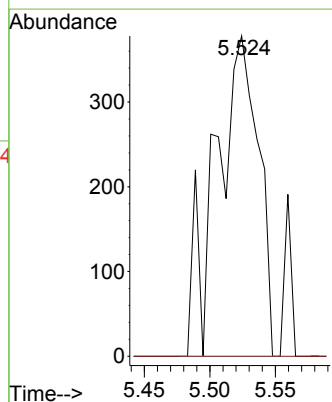
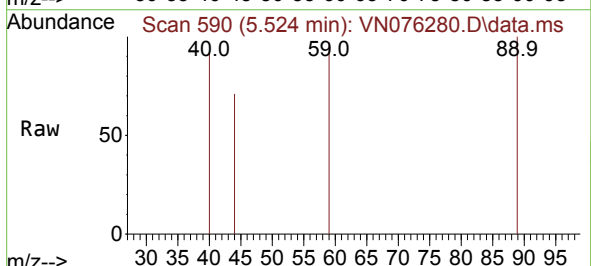
Instrument :
MSVOA_N
ClientSampleId :
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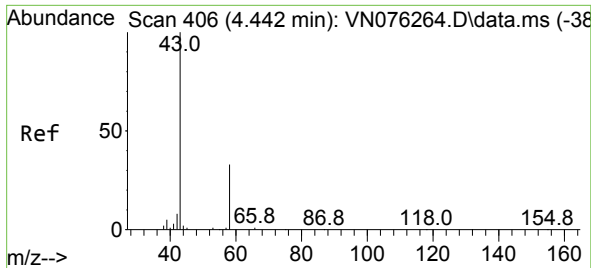
Tgt Ion:168 Resp: 369519
Ion Ratio Lower Upper
168 100
99 53.6 41.6 62.4



#11
Tert butyl alcohol
Concen: 1.549 ug/l
RT: 5.524 min Scan# 590
Delta R.T. -0.006 min
Lab File: VN076280.D
Acq: 17 Jan 2023 15:12

Tgt Ion: 59 Resp: 857
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#





#16

Acetone

Concen: 24.528 ug/l

RT: 4.442 min Scan# 406

Delta R.T. -0.000 min

Lab File: VN076280.D

Acq: 17 Jan 2023 15:12

Instrument :

MSVOA_N

ClientSampleId :

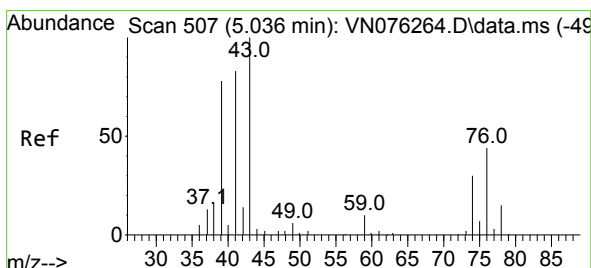
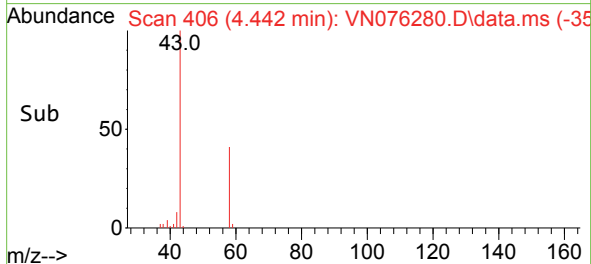
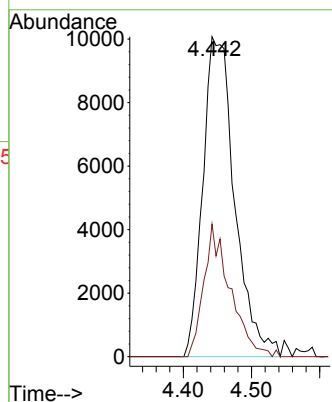
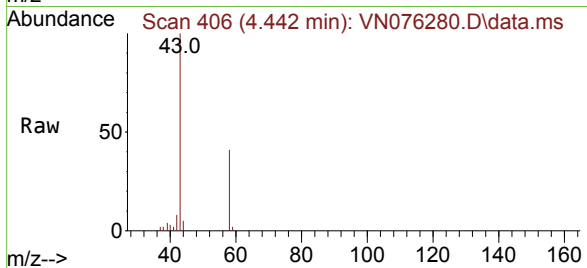
MH-6

Tgt Ion: 43 Resp: 32621

Ion Ratio Lower Upper

43 100

58 41.4 26.7 40.1#



#18

Methyl Acetate

Concen: 0.824 ug/l

RT: 5.054 min Scan# 510

Delta R.T. 0.018 min

Lab File: VN076280.D

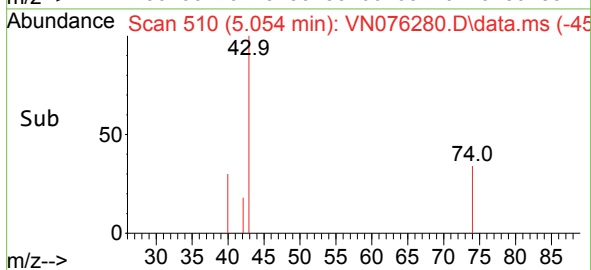
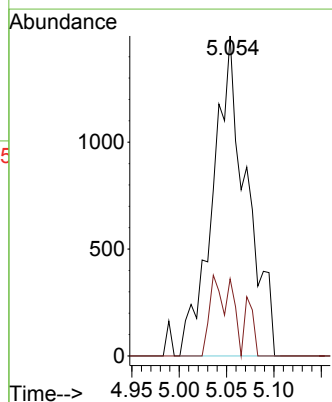
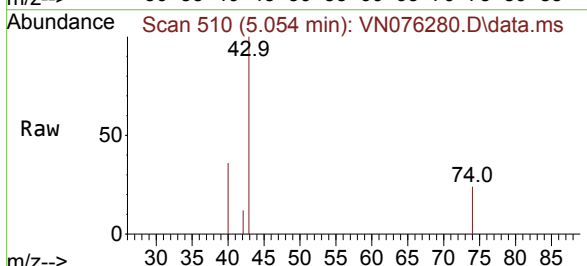
Acq: 17 Jan 2023 15:12

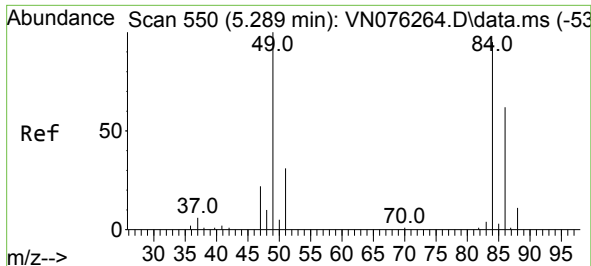
Tgt Ion: 43 Resp: 3702

Ion Ratio Lower Upper

43 100

74 4.7 23.3 34.9#

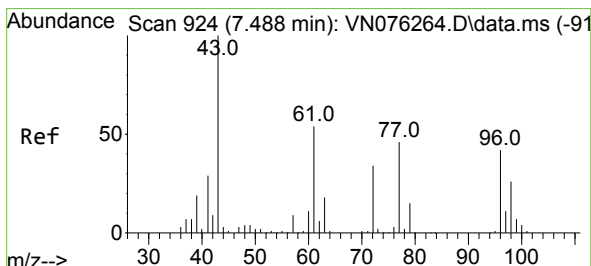
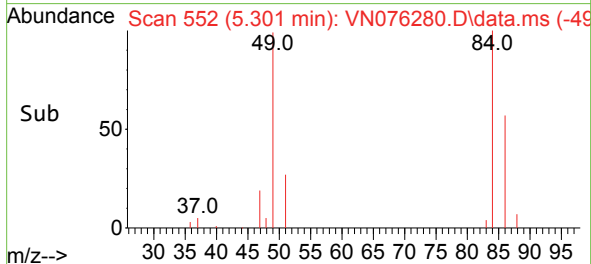
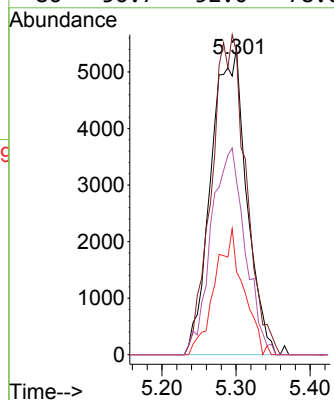
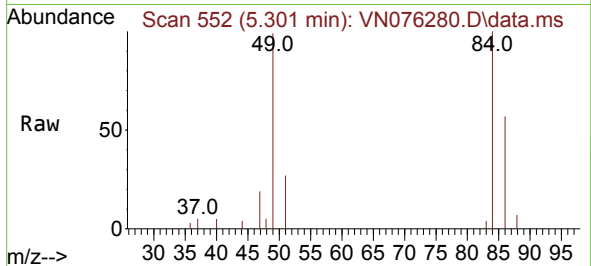




#20
Methylene Chloride
Concen: 4.010 ug/l
RT: 5.301 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN076280.D
Acq: 17 Jan 2023 15:12

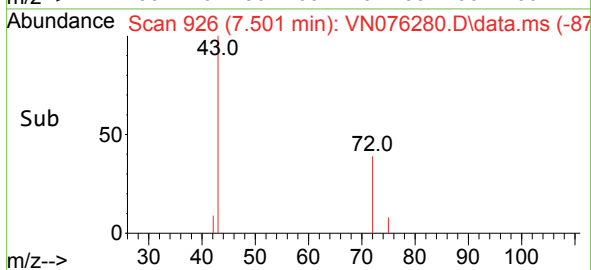
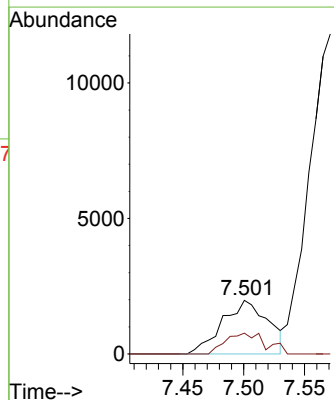
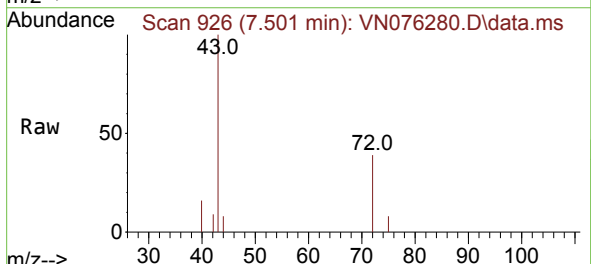
Instrument :
MSVOA_N
ClientSampleId :
MH-6

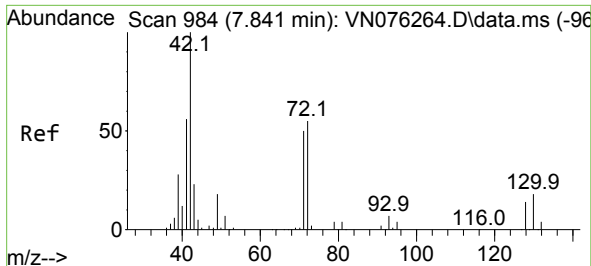
Tgt Ion: 84	Resp: 17914
Ion Ratio	Lower Upper
84 100	
49 98.6	84.5 126.7
51 27.0	26.0 39.0
86 56.7	52.0 78.0



#25
2-Butanone
Concen: 2.530 ug/l
RT: 7.501 min Scan# 926
Delta R.T. 0.013 min
Lab File: VN076280.D
Acq: 17 Jan 2023 15:12

Tgt Ion: 43	Resp: 5126
Ion Ratio	Lower Upper
43 100	
72 38.7	27.4 41.2





#29

Tetrahydrofuran

Concen: 0.214 ug/l

RT: 7.859 min Scan# 91

Delta R.T. 0.018 min

Lab File: VN076280.D

Acq: 17 Jan 2023 15:12

Instrument :

MSVOA_N

ClientSampleId :

MH-6

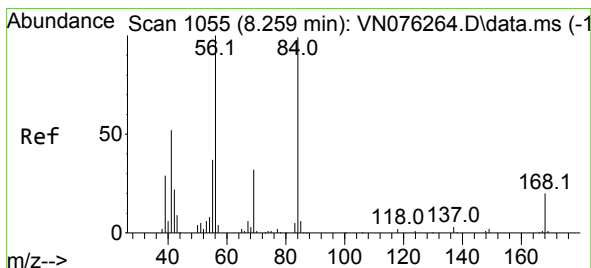
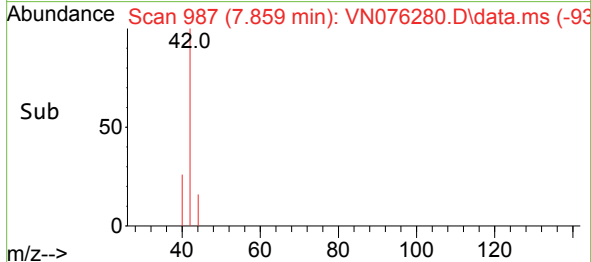
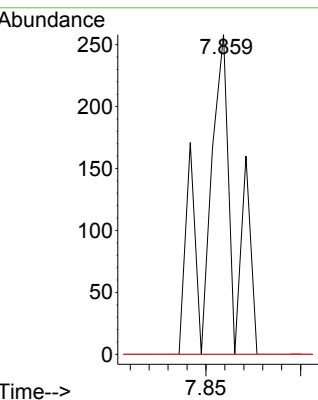
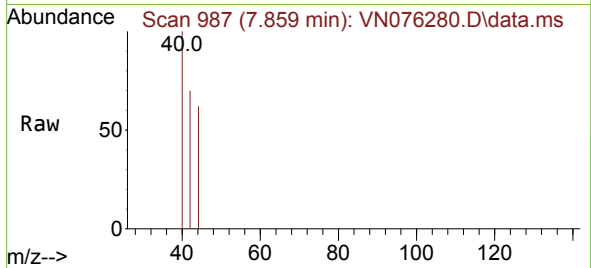
Tgt Ion: 42 Resp: 267

Ion Ratio Lower Upper

42 100

72 0.0 44.0 66.0#

71 0.0 41.1 61.7#



#31

Cyclohexane

Concen: 1.122 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.029 min

Lab File: VN076280.D

Acq: 17 Jan 2023 15:12

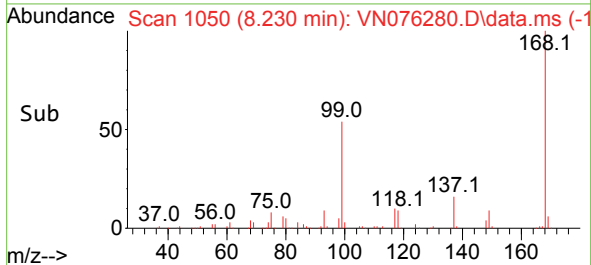
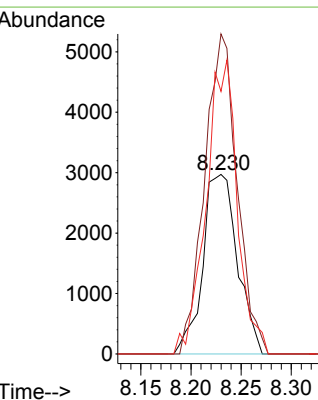
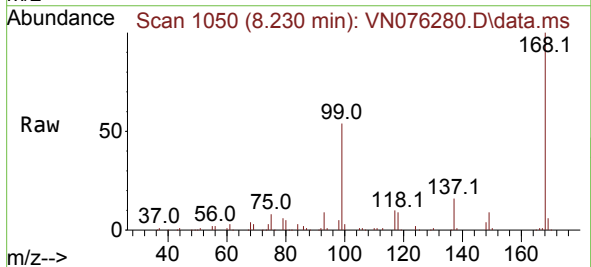
Tgt Ion: 56 Resp: 7132

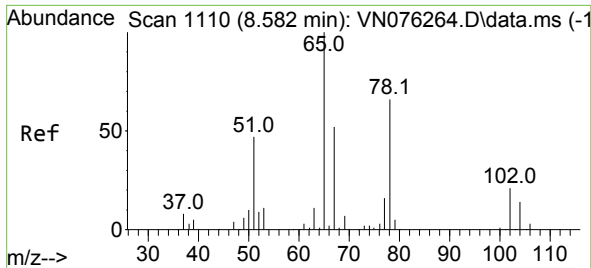
Ion Ratio Lower Upper

56 100

69 178.3 25.8 38.8#

84 146.3 79.0 118.4#





#33

1,2-Dichloroethane-d4

Concen: 49.833 ug/l

RT: 8.583 min Scan# 1110

Delta R.T. 0.001 min

Lab File: VN076280.D

Acq: 17 Jan 2023 15:12

Instrument :

MSVOA_N

ClientSampleId :

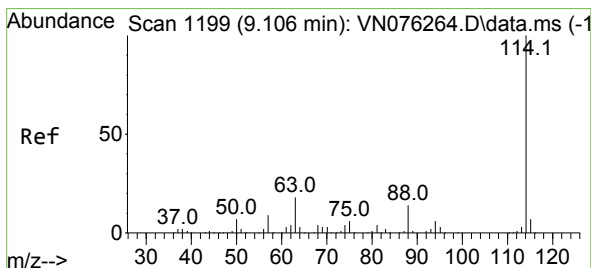
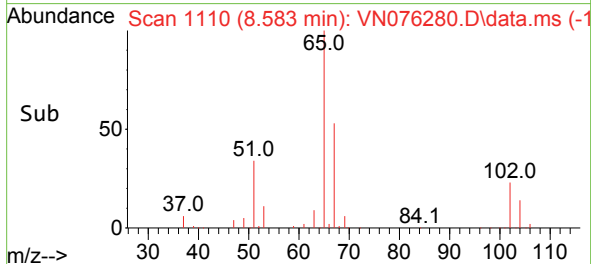
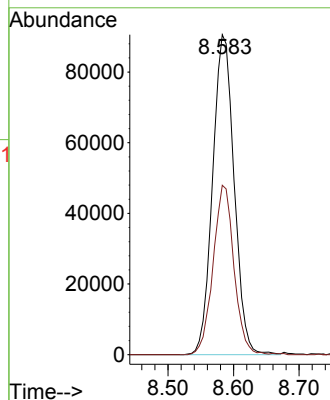
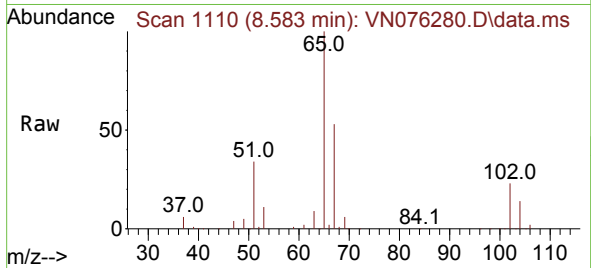
MH-6

Tgt Ion: 65 Resp: 206180

Ion Ratio Lower Upper

65 100

67 51.3 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: VN076280.D

Acq: 17 Jan 2023 15:12

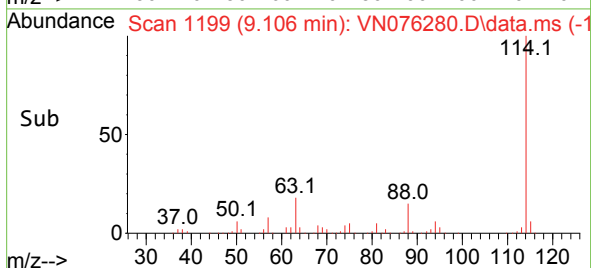
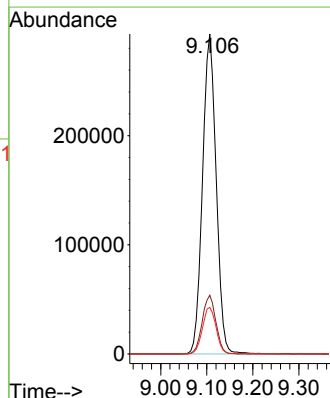
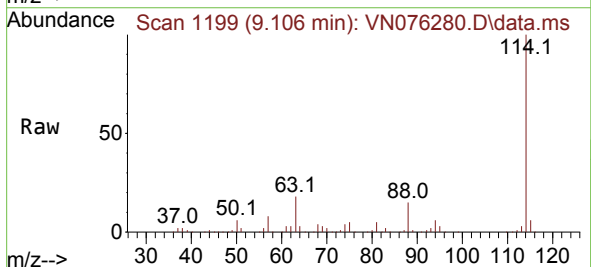
Tgt Ion: 114 Resp: 605868

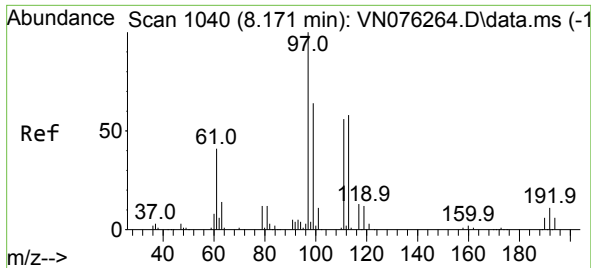
Ion Ratio Lower Upper

114 100

63 18.4 0.0 35.8

88 14.6 0.0 28.0

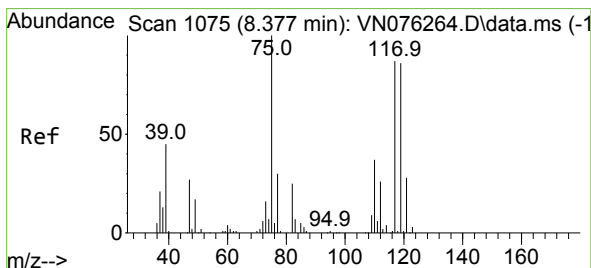
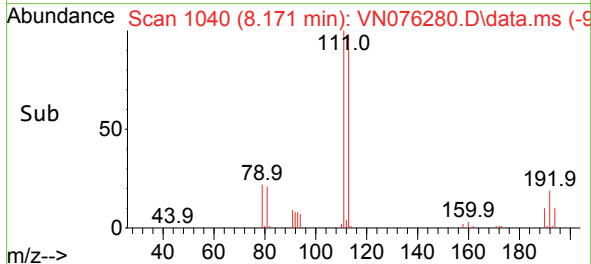
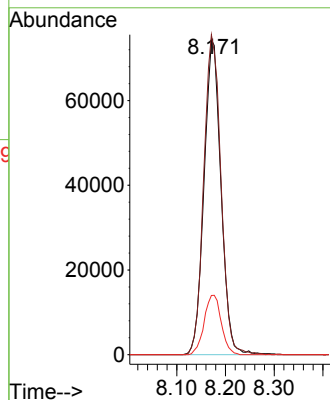
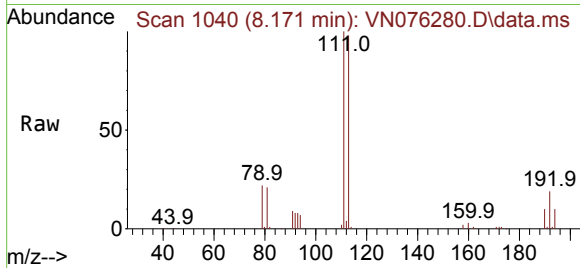




#35
Dibromofluoromethane
Concen: 47.227 ug/l
RT: 8.171 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VN076280.D
Acq: 17 Jan 2023 15:12

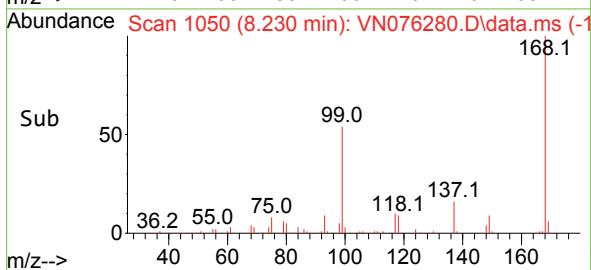
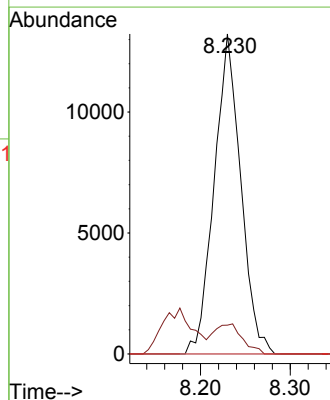
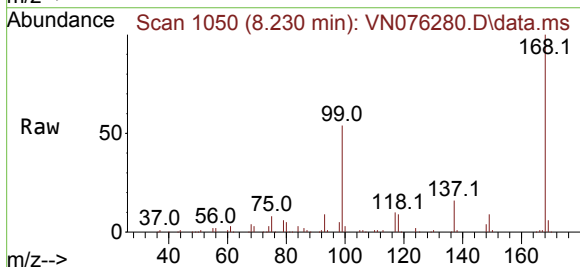
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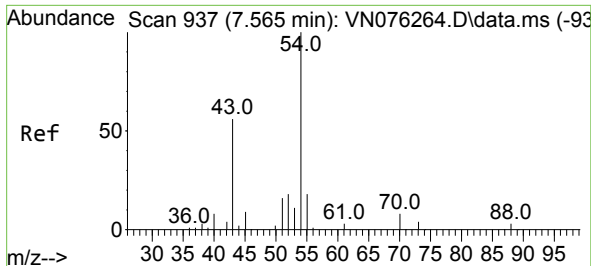
Tgt Ion:113 Resp: 178989
Ion Ratio Lower Upper
113 100
111 103.3 82.7 124.1
192 19.1 15.6 23.4



#36
1,1-Dichloropropene
Concen: 5.042 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.147 min
Lab File: VN076280.D
Acq: 17 Jan 2023 15:12

Tgt Ion: 75 Resp: 27155
Ion Ratio Lower Upper
75 100
110 10.1 18.8 56.3#
77 0.0 25.0 37.4#

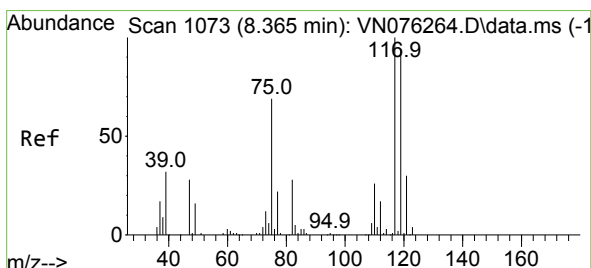
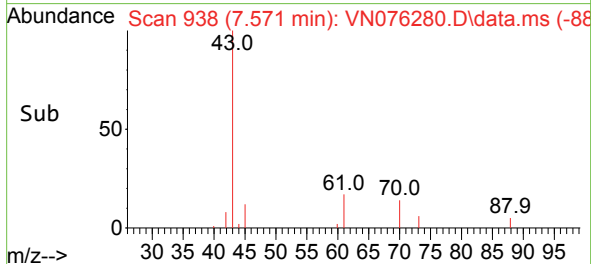
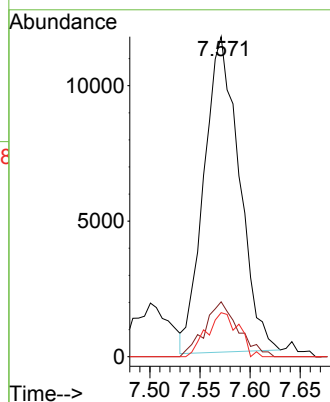
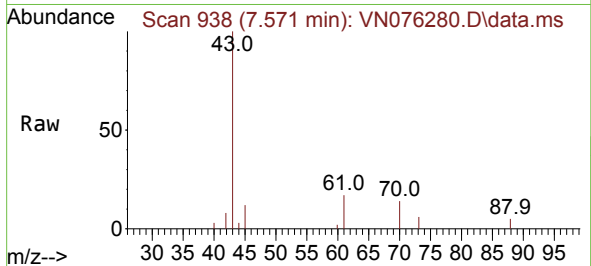




#37
Ethyl Acetate
Concen: 6.621 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN076280.D
Acq: 17 Jan 2023 15:12

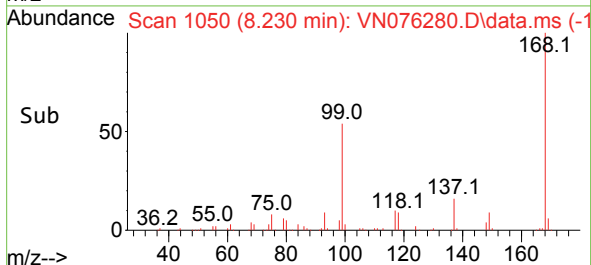
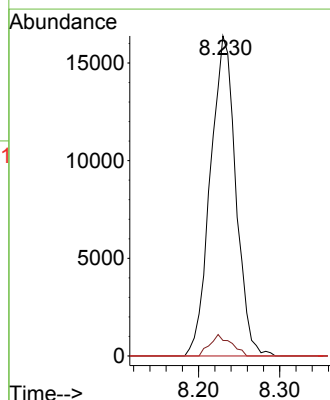
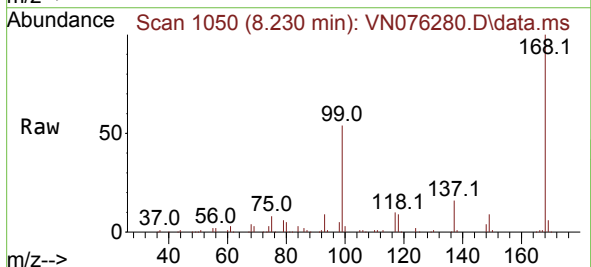
Instrument :
MSVOA_N
ClientSampleId :
MH-6

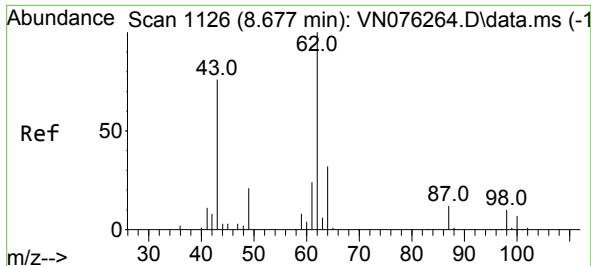
Tgt Ion: 43	Resp:	28462
Ion	Ratio	Lower Upper
43	100	
61	16.7	11.1 16.7
70	12.7	10.0 15.0



#38
Carbon Tetrachloride
Concen: 5.940 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.135 min
Lab File: VN076280.D
Acq: 17 Jan 2023 15:12

Tgt Ion: 117	Resp:	35674
Ion	Ratio	Lower Upper
117	100	
119	4.9	75.4 113.0#
121	0.0	24.2 36.2#





#42

1,2-Dichloroethane

Concen: 0.217 ug/l

RT: 8.695 min Scan# 1129

Delta R.T. 0.018 min

Lab File: VN076280.D

Acq: 17 Jan 2023 15:12

Instrument :

MSVOA_N

ClientSampleId :

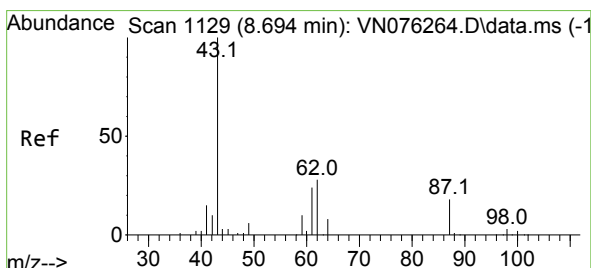
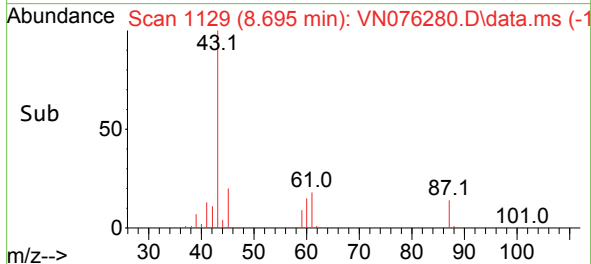
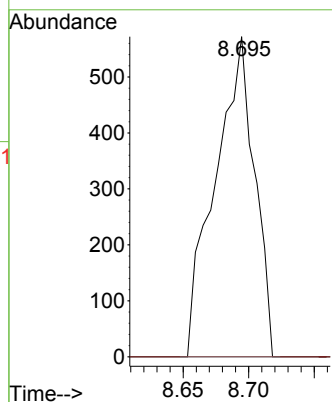
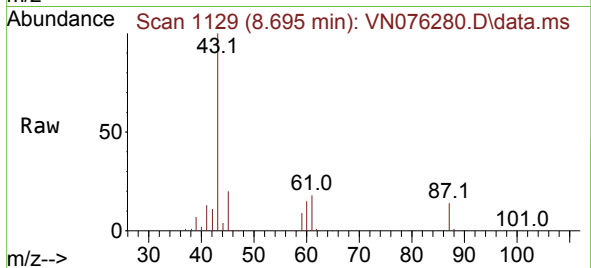
MH-6

Tgt Ion: 62 Resp: 1193

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.4



#43

Isopropyl Acetate

Concen: 38.363 ug/l

RT: 8.695 min Scan# 1129

Delta R.T. 0.001 min

Lab File: VN076280.D

Acq: 17 Jan 2023 15:12

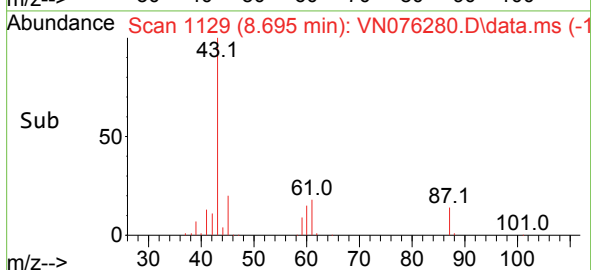
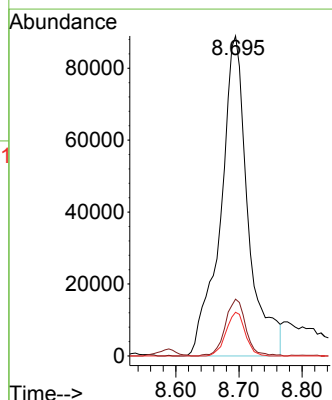
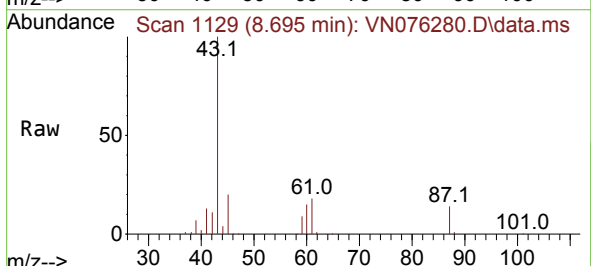
Tgt Ion: 43 Resp: 269584

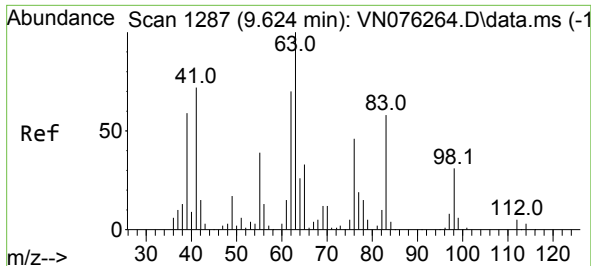
Ion Ratio Lower Upper

43 100

61 13.2 23.5 35.3#

87 9.5 13.8 20.6#





#45

1,2-Dichloropropane

Concen: 0.456 ug/l

RT: 9.736 min Scan# 11

Delta R.T. 0.112 min

Lab File: VN076280.D

Acq: 17 Jan 2023 15:12

Instrument :

MSVOA_N

ClientSampleId :

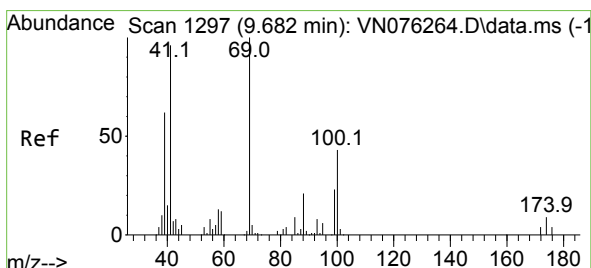
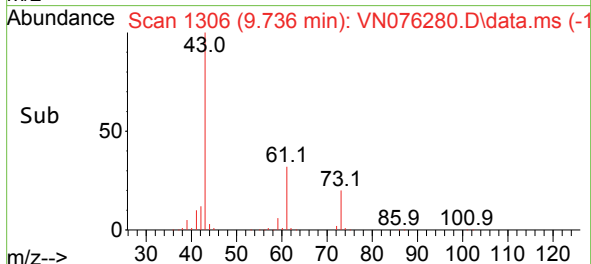
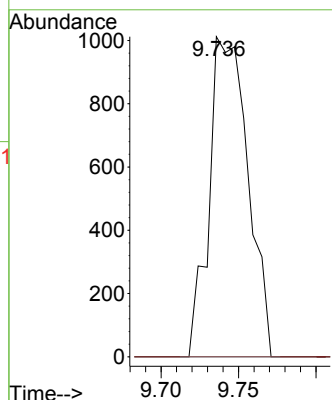
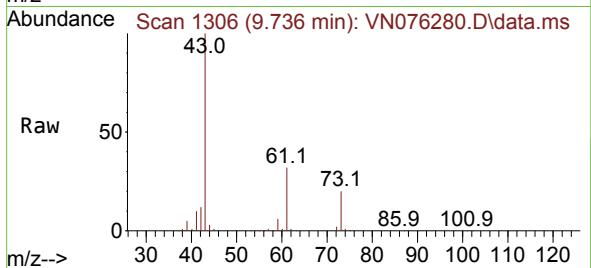
MH-6

Tgt Ion: 63 Resp: 1757

Ion Ratio Lower Upper

63 100

65 0.0 26.4 39.6#



#48

Methyl methacrylate

Concen: 1.166 ug/l

RT: 9.671 min Scan# 1295

Delta R.T. -0.011 min

Lab File: VN076280.D

Acq: 17 Jan 2023 15:12

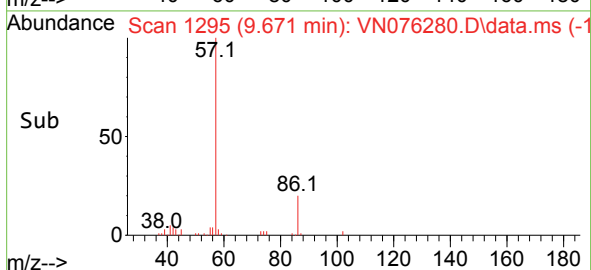
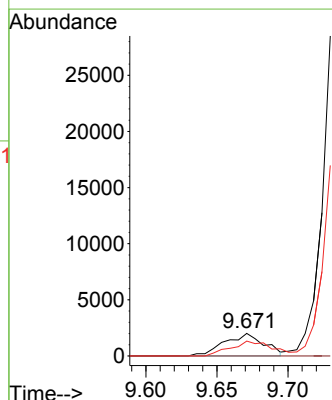
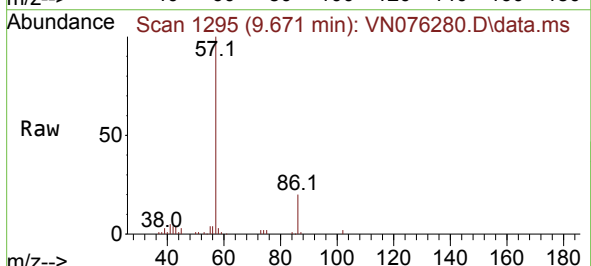
Tgt Ion: 41 Resp: 3878

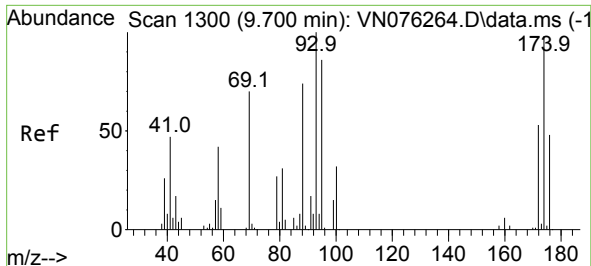
Ion Ratio Lower Upper

41 100

69 0.0 80.8 121.2#

39 68.4 54.4 81.6





#49

1,4-Dioxane

Concen: 2.749 ug/l

RT: 9.747 min Scan# 1308

Delta R.T. 0.047 min

Lab File: VN076280.D

Acq: 17 Jan 2023 15:12

Instrument :

MSVOA_N

ClientSampleId :

MH-6

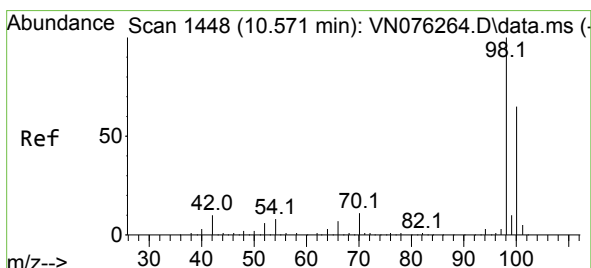
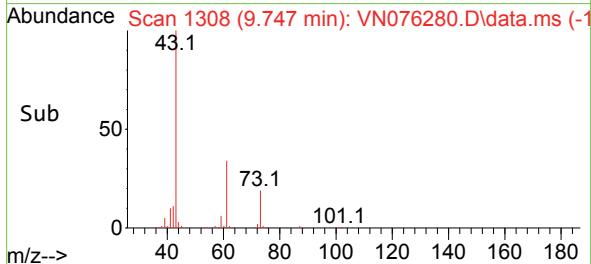
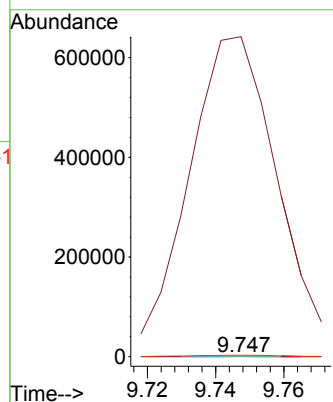
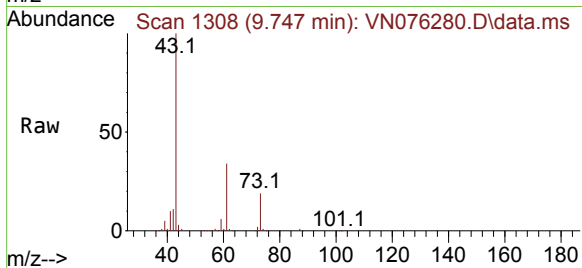
Tgt Ion: 88 Resp: 193

Ion Ratio Lower Upper

88 100

43 614828.0 18.1 27.1#

58 3024.4 46.5 69.7#



#50

Toluene-d8

Concen: 50.600 ug/l

RT: 10.571 min Scan# 1448

Delta R.T. -0.000 min

Lab File: VN076280.D

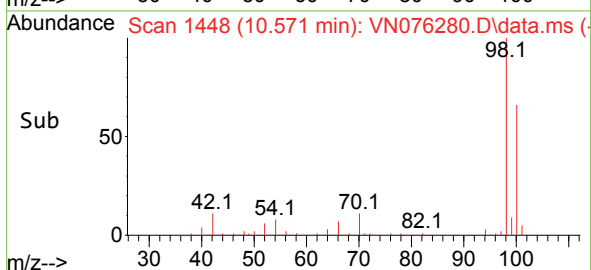
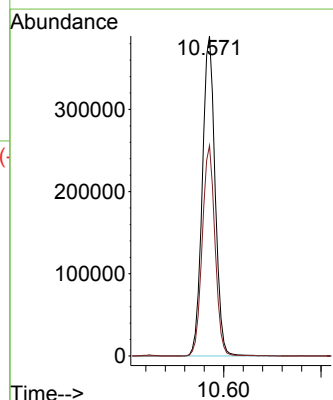
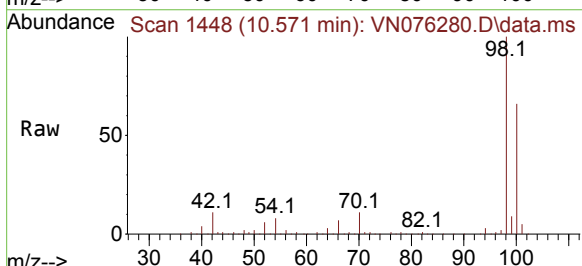
Acq: 17 Jan 2023 15:12

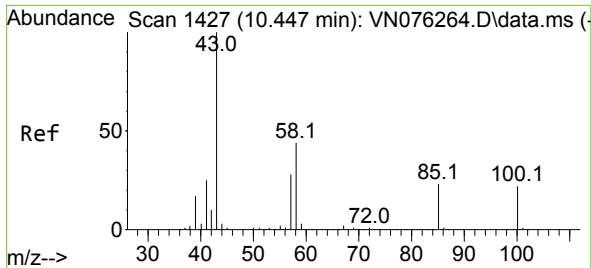
Tgt Ion: 98 Resp: 708237

Ion Ratio Lower Upper

98 100

100 65.5 52.2 78.4

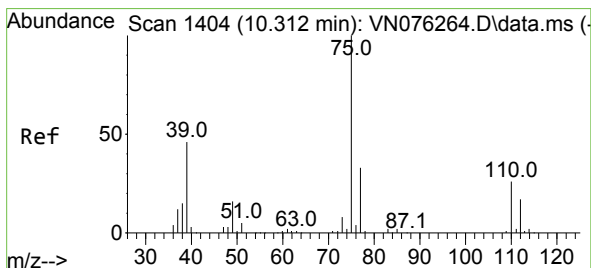
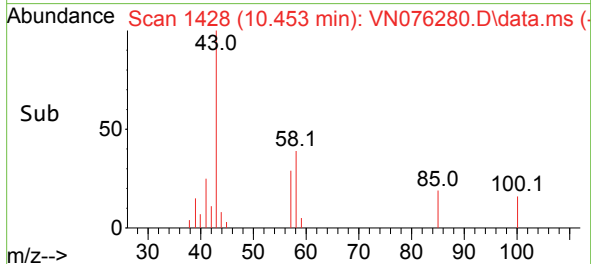
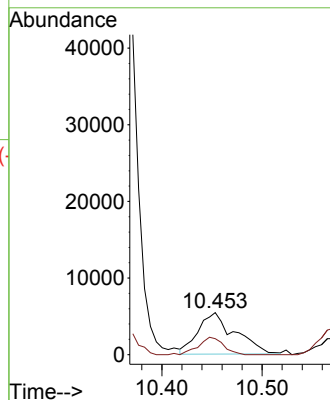
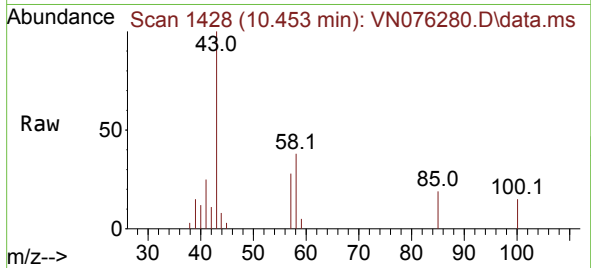




#51
4-Methyl-2-Pentanone
Concen: 3.376 ug/l
RT: 10.453 min Scan# 1428
Delta R.T. 0.006 min
Lab File: VN076280.D
Acq: 17 Jan 2023 15:12

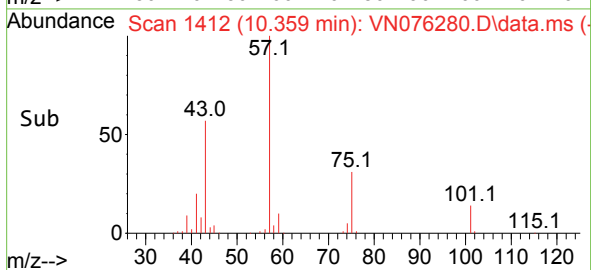
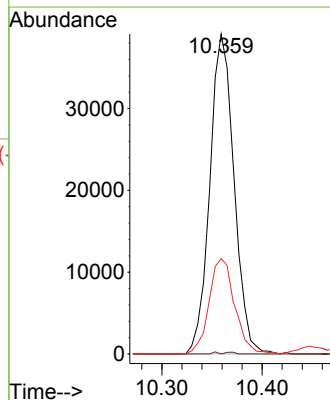
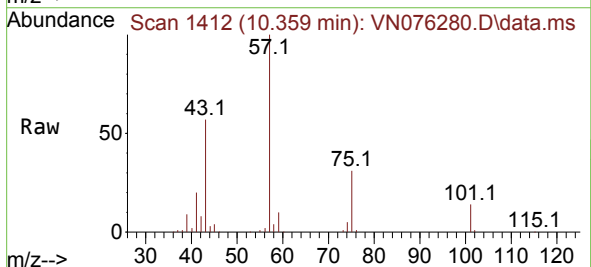
Instrument :
MSVOA_N
ClientSampleId :
MH-6

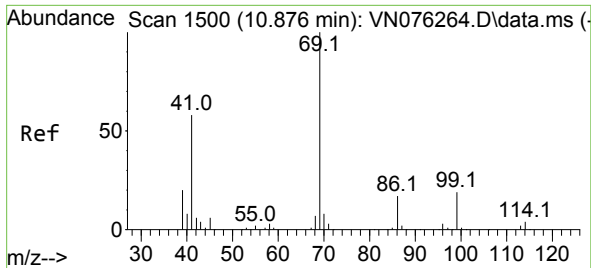
Tgt Ion: 43 Resp: 13925
Ion Ratio Lower Upper
43 100
58 28.5 35.1 52.7#



#54
cis-1,3-Dichloropropene
Concen: 10.602 ug/l
RT: 10.359 min Scan# 1412
Delta R.T. 0.047 min
Lab File: VN076280.D
Acq: 17 Jan 2023 15:12

Tgt Ion: 75 Resp: 65647
Ion Ratio Lower Upper
75 100
77 0.0 26.5 39.7#
39 29.8 37.1 55.7#

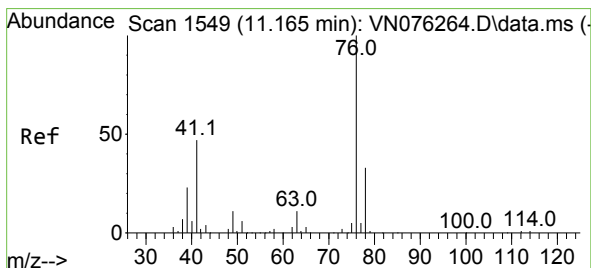
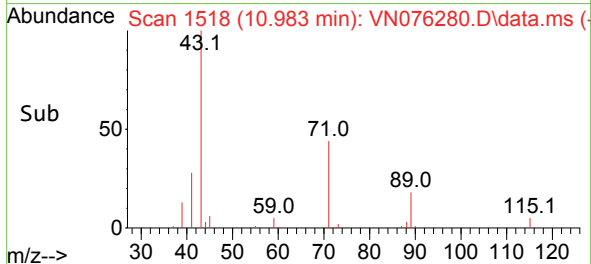
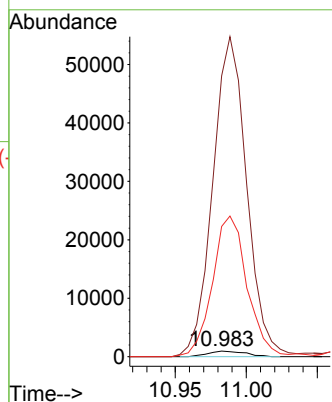
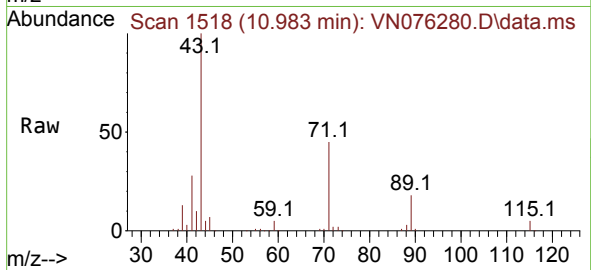




#56
Ethyl methacrylate
Concen: 0.332 ug/l
RT: 10.983 min Scan# 1518
Delta R.T. 0.107 min
Lab File: VN076280.D
Acq: 17 Jan 2023 15:12

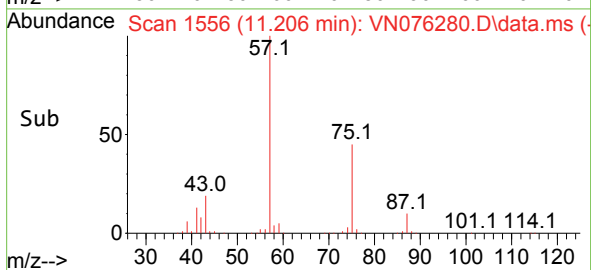
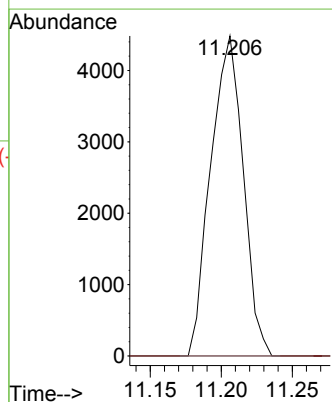
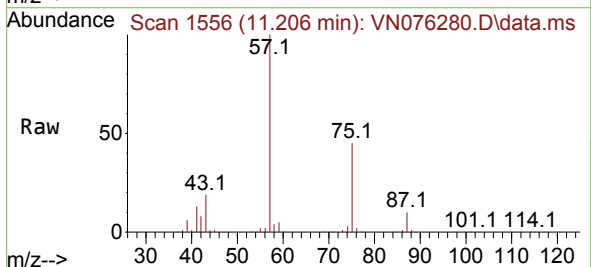
Instrument :
MSVOA_N
ClientSampleId :
MH-6

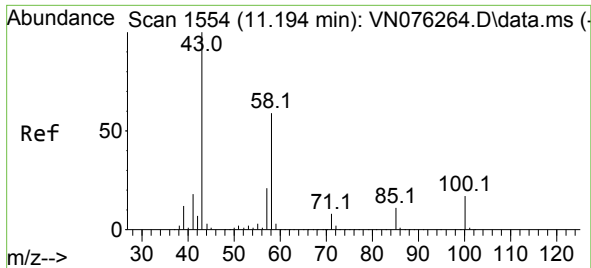
Tgt Ion: 69 Resp: 1765
Ion Ratio Lower Upper
69 100
41 5158.4 45.3 67.9#
39 2327.3 29.3 43.9#



#57
1,3-Dichloropropane
Concen: 1.068 ug/l
RT: 11.206 min Scan# 1556
Delta R.T. 0.041 min
Lab File: VN076280.D
Acq: 17 Jan 2023 15:12

Tgt Ion: 76 Resp: 7147
Ion Ratio Lower Upper
76 100
78 0.0 26.4 39.6#

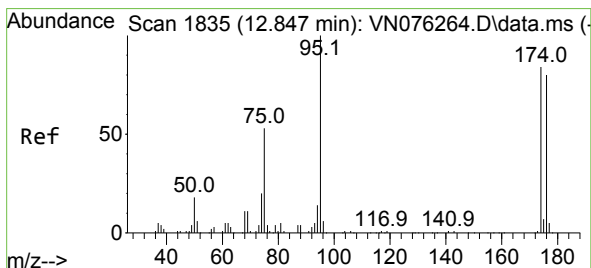
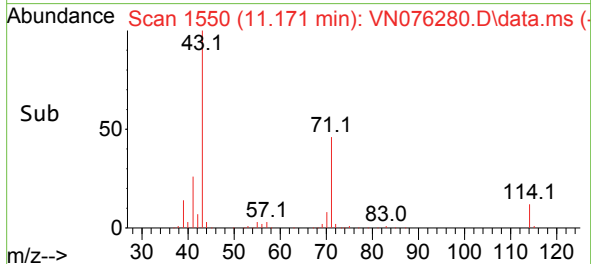
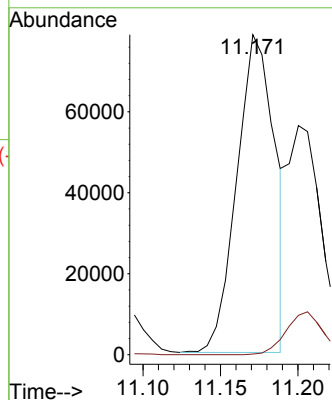
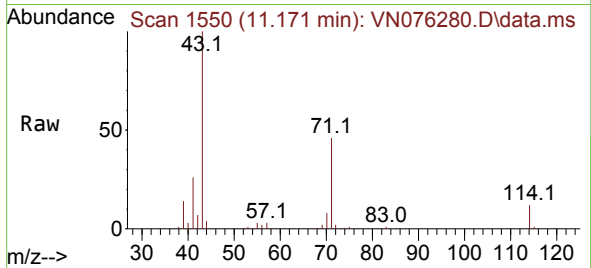




#59
2-Hexanone
Concen: 44.632 ug/l
RT: 11.171 min Scan# 11
Delta R.T. -0.023 min
Lab File: VN076280.D
Acq: 17 Jan 2023 15:12

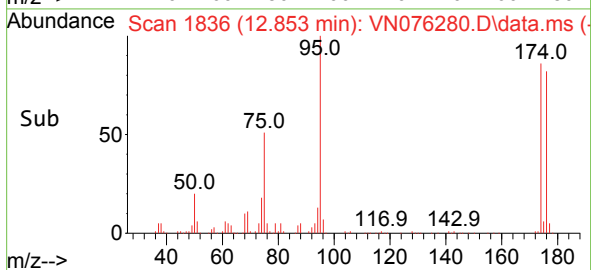
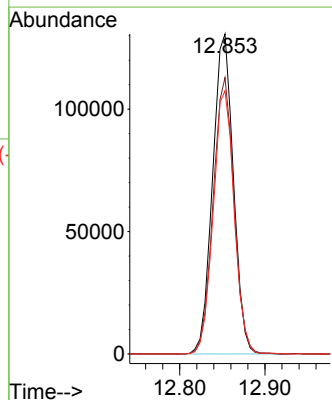
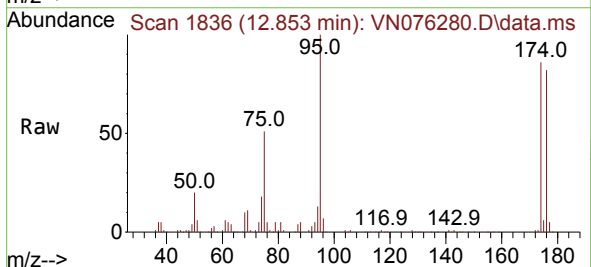
Instrument :
MSVOA_N
ClientSampleId :
MH-6

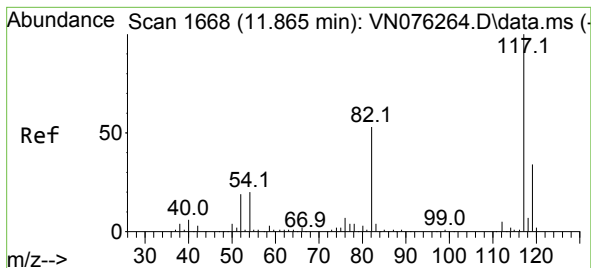
Tgt Ion: 43 Resp: 133420
Ion Ratio Lower Upper
43 100
58 0.0 30.1 90.3#



#62
4-Bromofluorobenzene
Concen: 48.302 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.006 min
Lab File: VN076280.D
Acq: 17 Jan 2023 15:12

Tgt Ion: 95 Resp: 220708
Ion Ratio Lower Upper
95 100
174 87.1 0.0 174.6
176 83.2 0.0 167.8

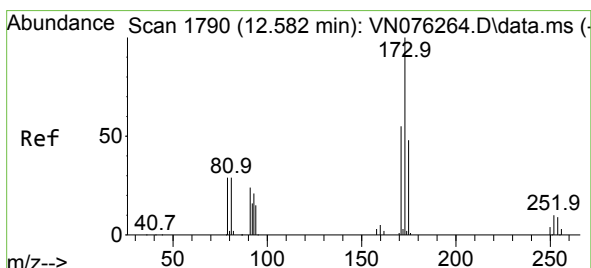
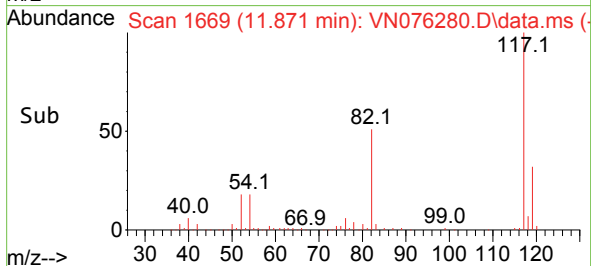
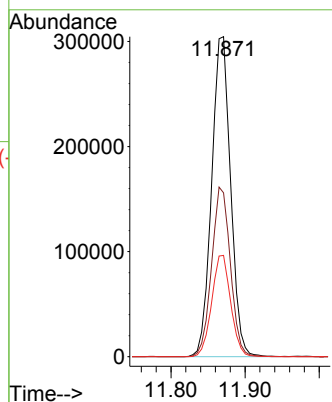
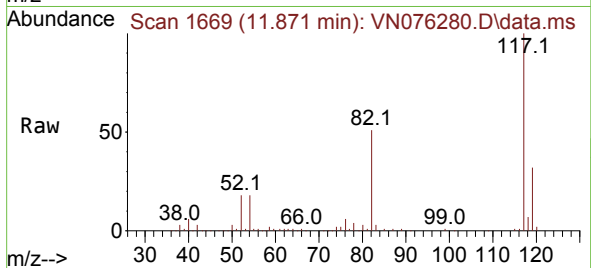




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN076280.D
Acq: 17 Jan 2023 15:12

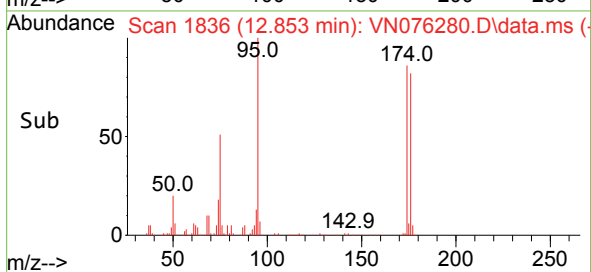
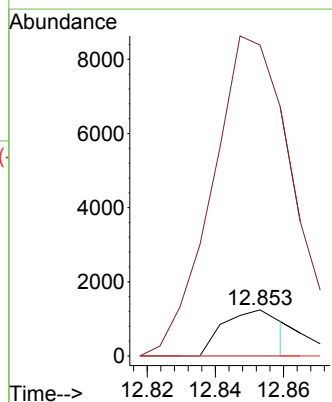
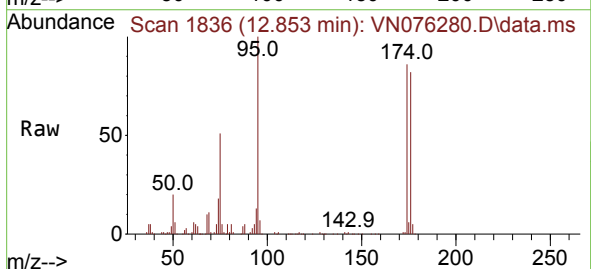
Instrument :
MSVOA_N
ClientSampleId :
MH-6

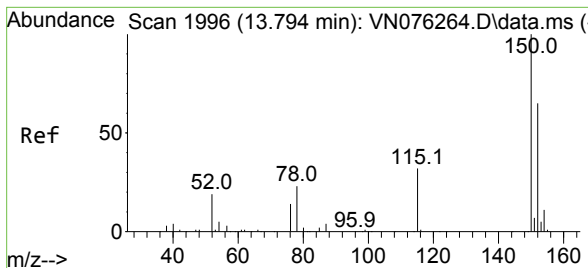
Tgt Ion:117 Resp: 540953
Ion Ratio Lower Upper
117 100
82 51.2 42.2 63.2
119 31.7 26.9 40.3



#71
Bromoform
Concen: 0.473 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.271 min
Lab File: VN076280.D
Acq: 17 Jan 2023 15:12

Tgt Ion:173 Resp: 1452
Ion Ratio Lower Upper
173 100
175 824.9 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: VN076280.D

Acq: 17 Jan 2023 15:12

Instrument :

MSVOA_N

ClientSampleId :

MH-6

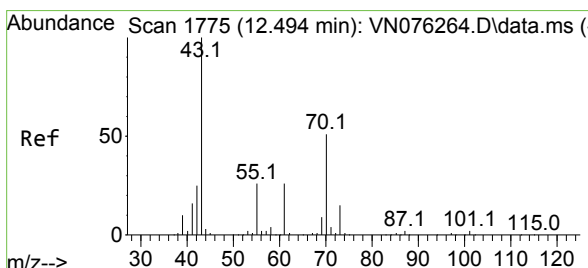
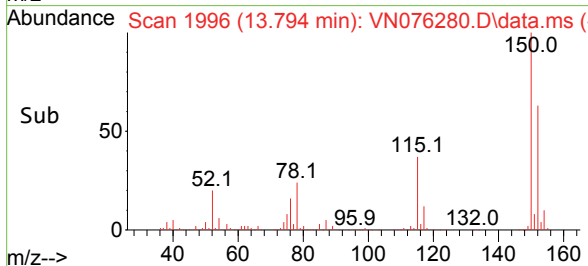
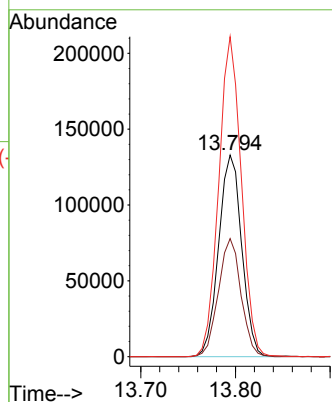
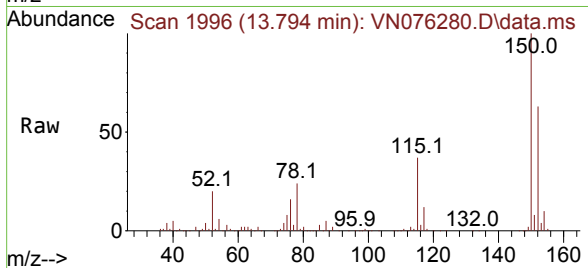
Tgt Ion:152 Resp: 225303

Ion Ratio Lower Upper

152 100

115 57.3 29.6 88.9

150 155.2 0.0 351.4



#74

N-ethyl acetate

Concen: 0.312 ug/l

RT: 12.488 min Scan# 1774

Delta R.T. -0.006 min

Lab File: VN076280.D

Acq: 17 Jan 2023 15:12

Tgt Ion: 43 Resp: 1562

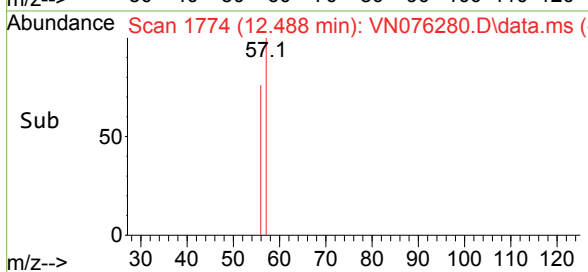
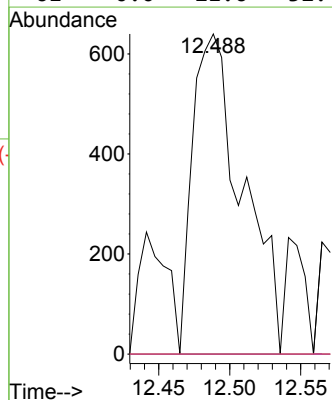
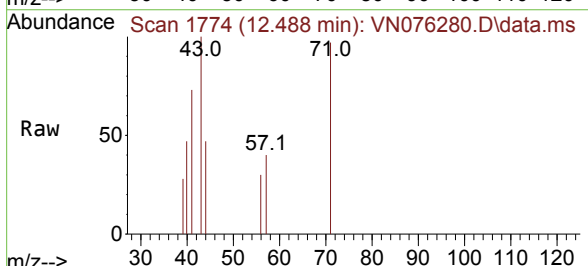
Ion Ratio Lower Upper

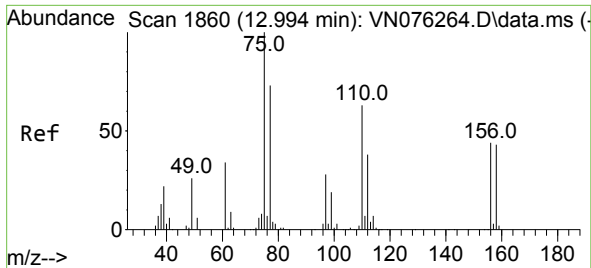
43 100

70 0.0 41.2 61.8#

55 0.0 21.0 31.6#

61 0.0 21.6 32.4#

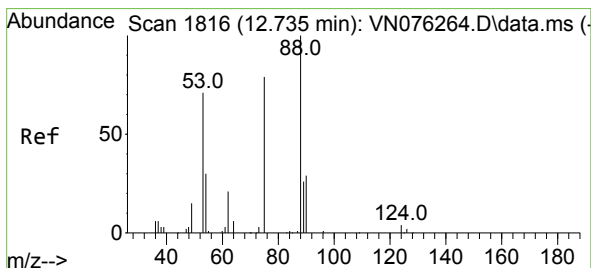
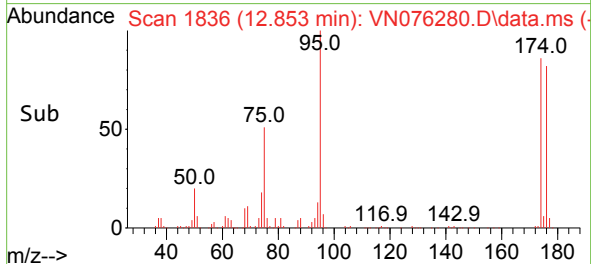
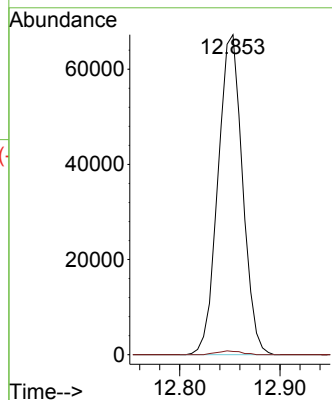
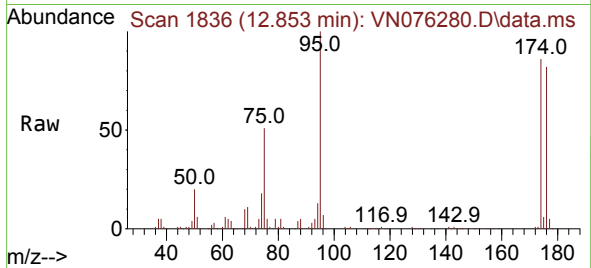




#76
1,2,3-Trichloropropane
Concen: 27.402 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN076280.D
Acq: 17 Jan 2023 15:12

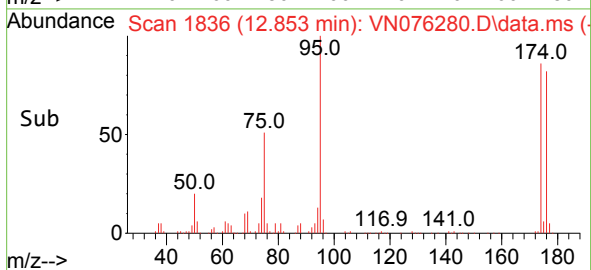
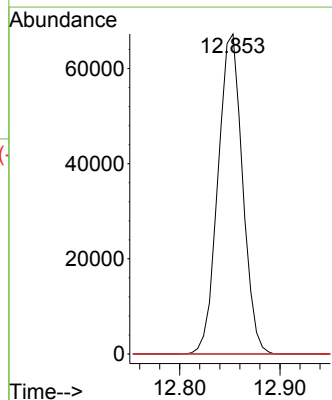
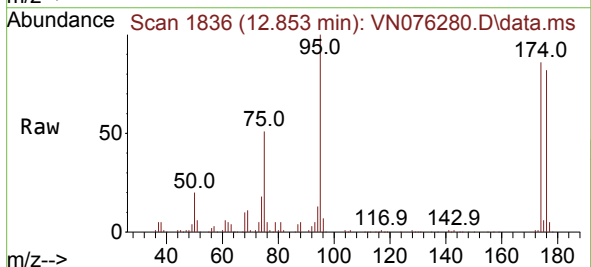
Instrument :
MSVOA_N
ClientSampleId :
MH-6

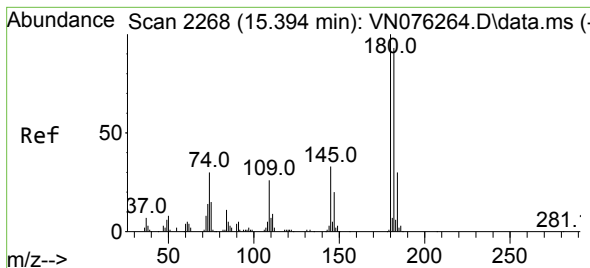
Tgt Ion: 75 Resp: 114228
Ion Ratio Lower Upper
75 100
77 1.2 75.2 225.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 84.356 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.118 min
Lab File: VN076280.D
Acq: 17 Jan 2023 15:12

Tgt Ion: 75 Resp: 114228
Ion Ratio Lower Upper
75 100
53 0.0 75.8 113.8#
89 0.0 37.0 55.6#





#93

1,2,4-Trichlorobenzene

Concen: 1.363 ug/l

RT: 15.400 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN076280.D

Acq: 17 Jan 2023 15:12

Instrument :

MSVOA_N

ClientSampleId :

MH-6

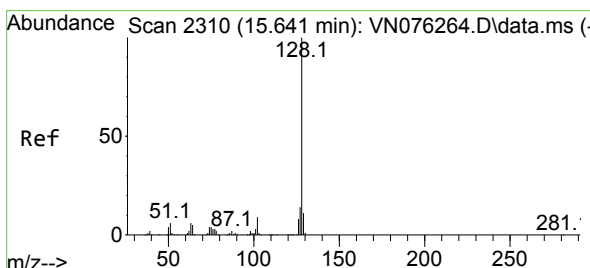
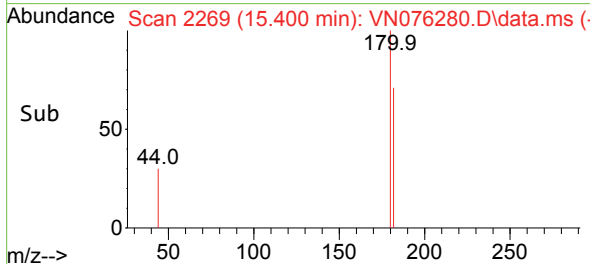
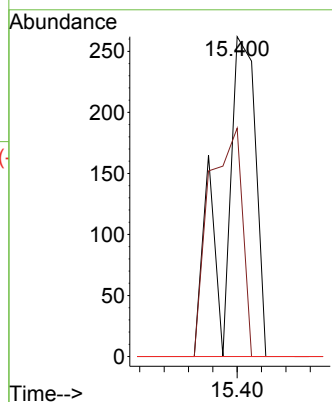
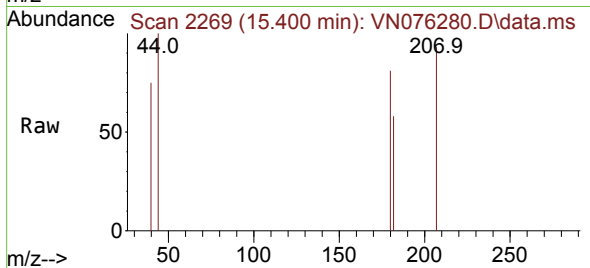
Tgt Ion:180 Resp: 236

Ion Ratio Lower Upper

180 100

182 74.2 47.0 141.2

145 0.0 15.2 45.5#



#95

Naphthalene

Concen: 1.973 ug/l

RT: 15.641 min Scan# 2310

Delta R.T. 0.000 min

Lab File: VN076280.D

Acq: 17 Jan 2023 15:12

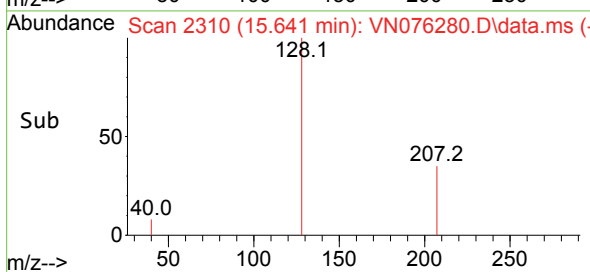
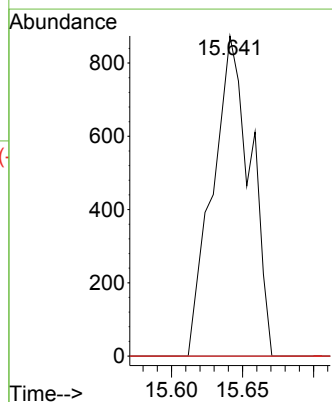
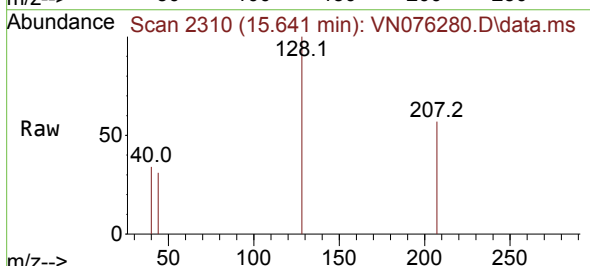
Tgt Ion:128 Resp: 1627

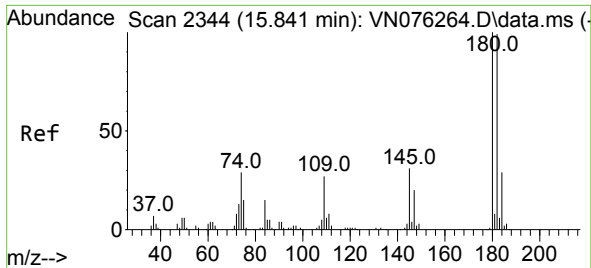
Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

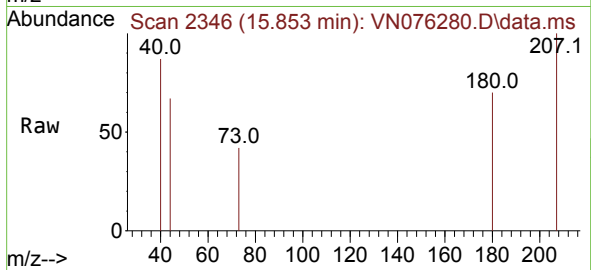
129 0.0 8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.225 ug/l
 RT: 15.853 min Scan# 21
 Delta R.T. 0.012 min
 Lab File: VN076280.D
 Acq: 17 Jan 2023 15:12

Instrument :
 MSVOA_N
 ClientSampleId :
 MH-6



Tgt Ion:180 Resp: 273
 Ion Ratio Lower Upper
 180 100
 182 30.0 47.5 142.5#
 145 0.0 15.9 47.6#

