

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032123\
 Data File : VN077089.D
 Acq On : 21 Mar 2023 14:41
 Operator : JC\MD
 Sample : 02001-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IRV-3

Quant Time: Mar 21 23:17:09 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031723W.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 20 08:50:30 2023
 Response via : Initial Calibration

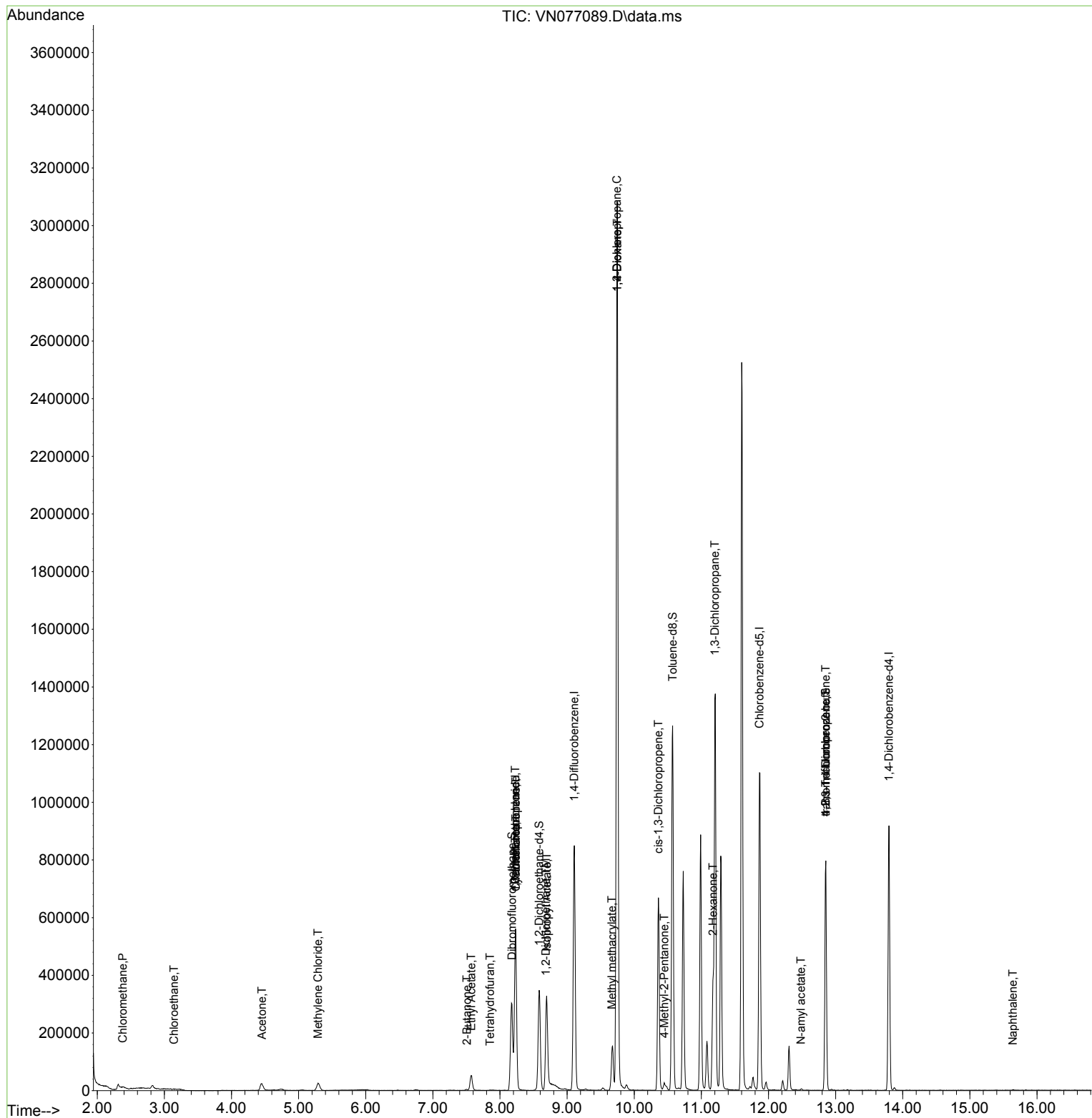
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.231	168	379102	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	710166	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	641827	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	233623	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	292227	48.258	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.520%		
35) Dibromofluoromethane	8.178	113	225326	45.306	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	90.620%		
50) Toluene-d8	10.572	98	878382	49.443	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.880%		
62) 4-Bromofluorobenzene	12.854	95	282521	45.004	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	90.000%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.378	50	986	0.258	ug/l #	43
6) Chloroethane	3.143	64	1442	0.553	ug/l #	42
16) Acetone	4.454	43	47552	17.624	ug/l	95
20) Methylene Chloride	5.290	84	19936	3.404	ug/l	96
25) 2-Butanone	7.507	43	4731	1.199	ug/l	95
29) Tetrahydrofuran	7.854	42	1197	0.468	ug/l #	54
31) Cyclohexane	8.236	56	9283	0.937	ug/l #	1
36) 1,1-Dichloropropene	8.236	75	34169	4.399	ug/l #	50
37) Ethyl Acetate	7.572	43	81169	9.766	ug/l	100
38) Carbon Tetrachloride	8.231	117	43874	5.799	ug/l #	15
42) 1,2-Dichloroethane	8.684	62	2368	0.278	ug/l #	76
43) Isopropyl Acetate	8.695	43	389108	29.970	ug/l #	88
45) 1,2-Dichloropropane	9.742	63	4550	0.727	ug/l #	43
48) Methyl methacrylate	9.666	41	9590	1.545	ug/l #	46
49) 1,4-Dioxane	9.748	88	314	2.962	ug/l #	1
51) 4-Methyl-2-Pentanone	10.448	43	26246	3.246	ug/l #	74
54) cis-1,3-Dichloropropene	10.360	75	120291	13.143	ug/l #	68
57) 1,3-Dichloropropane	11.201	76	14057	1.384	ug/l #	45
59) 2-Hexanone	11.172	43	306195	52.214	ug/l #	24
74) N-amyl acetate	12.483	43	3804	0.420	ug/l #	50
76) 1,2,3-Trichloropropane	12.854	75	149695	24.772	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	149695	68.186	ug/l #	10
95) Naphthalene	15.642	128	2156	2.046	ug/l #	81

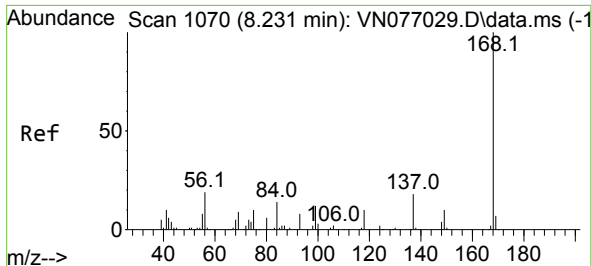
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Mar 20 08:50:30 2023
Response via : Initial Calibration

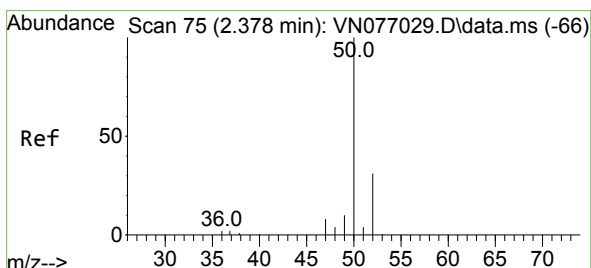
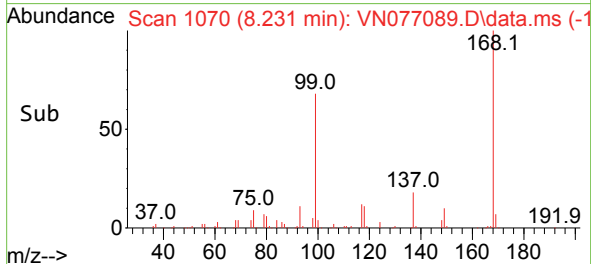
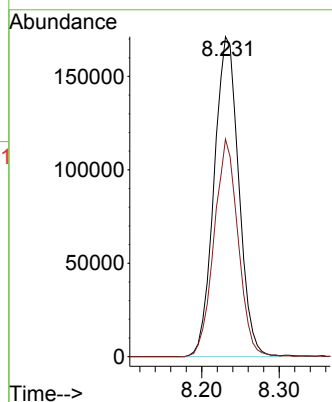
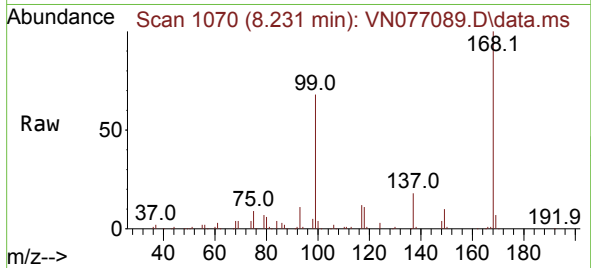




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VN077089.D
Acq: 21 Mar 2023 14:41

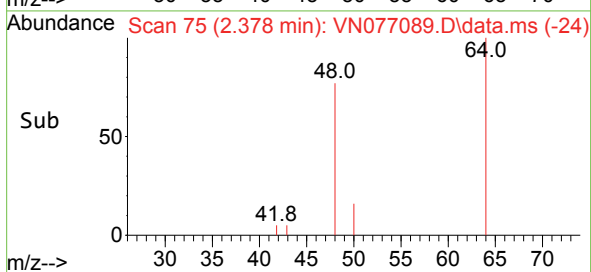
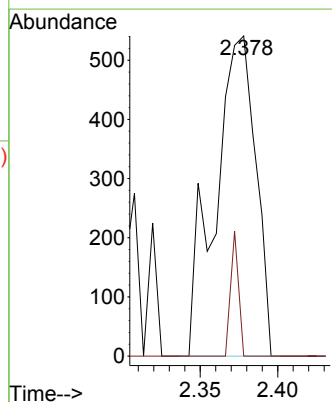
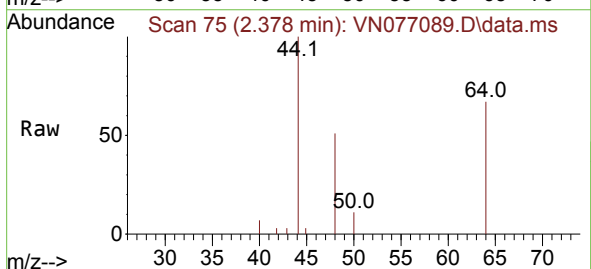
Instrument :
MSVOA_N
ClientSampleId :
IRV-3

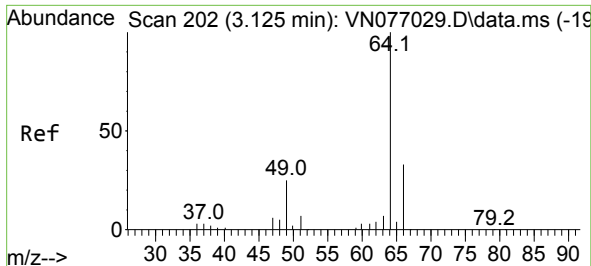
Tgt Ion:168 Resp: 379102
Ion Ratio Lower Upper
168 100
99 68.0 53.9 80.9



#3
Chloromethane
Concen: 0.258 ug/l
RT: 2.378 min Scan# 75
Delta R.T. 0.000 min
Lab File: VN077089.D
Acq: 21 Mar 2023 14:41

Tgt Ion: 50 Resp: 986
Ion Ratio Lower Upper
50 100
52 0.0 25.1 37.7#

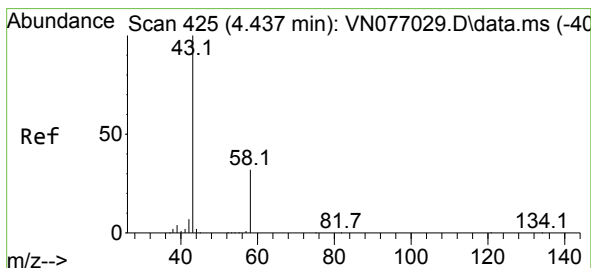
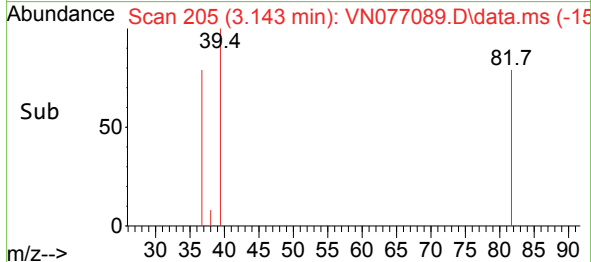
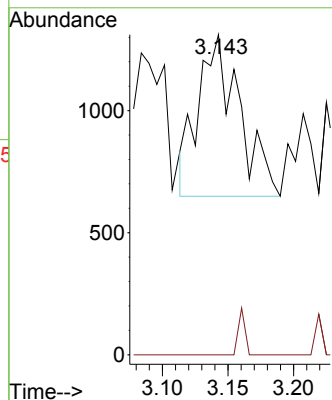
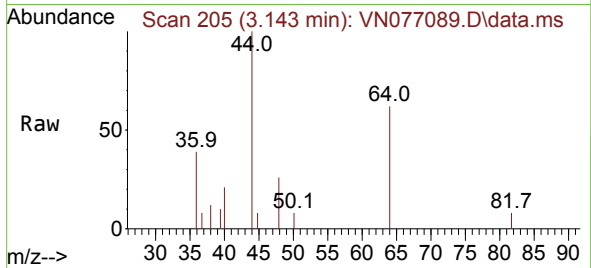




#6
Chloroethane
Concen: 0.553 ug/l
RT: 3.143 min Scan# 205
Delta R.T. 0.018 min
Lab File: VN077089.D
Acq: 21 Mar 2023 14:41

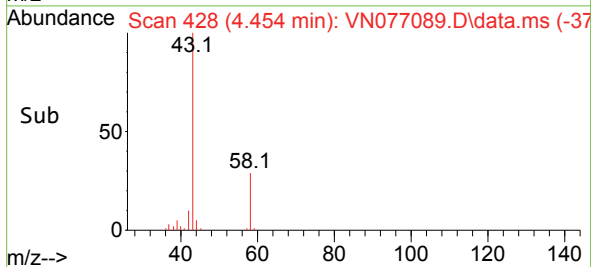
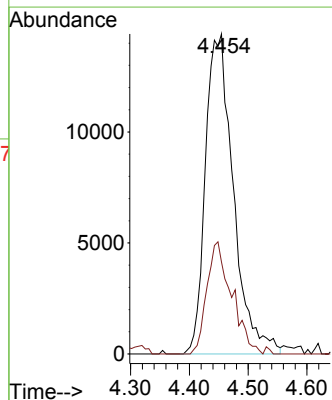
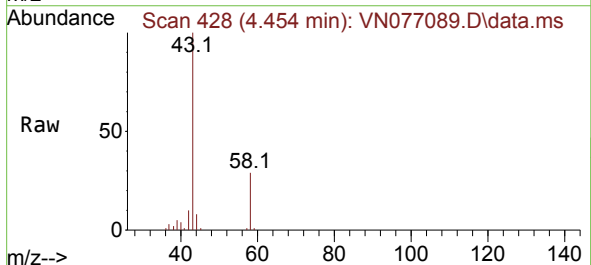
Instrument :
MSVOA_N
ClientSampleId :
IRV-3

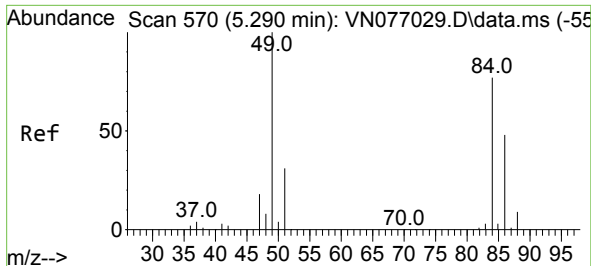
Tgt Ion: 64 Resp: 1442
Ion Ratio Lower Upper
64 100
66 0.0 26.3 39.5#



#16
Acetone
Concen: 17.624 ug/l
RT: 4.454 min Scan# 428
Delta R.T. 0.017 min
Lab File: VN077089.D
Acq: 21 Mar 2023 14:41

Tgt Ion: 43 Resp: 47552
Ion Ratio Lower Upper
43 100
58 28.8 25.4 38.0

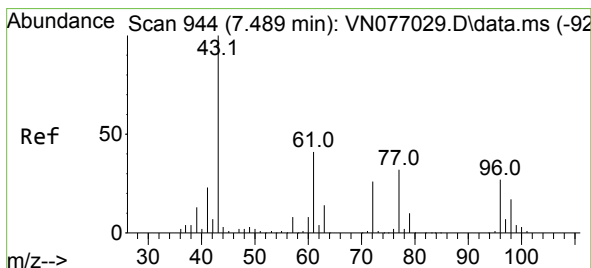
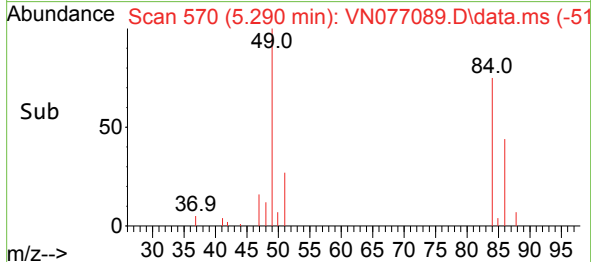
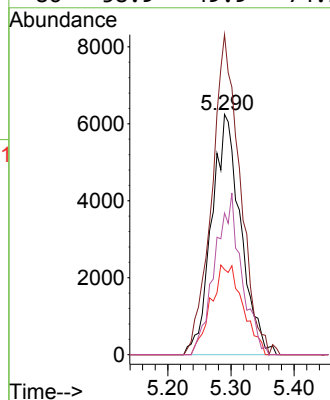
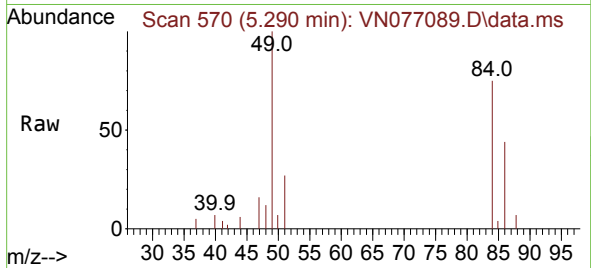




#20
Methylene Chloride
Concen: 3.404 ug/l
RT: 5.290 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN077089.D
Acq: 21 Mar 2023 14:41

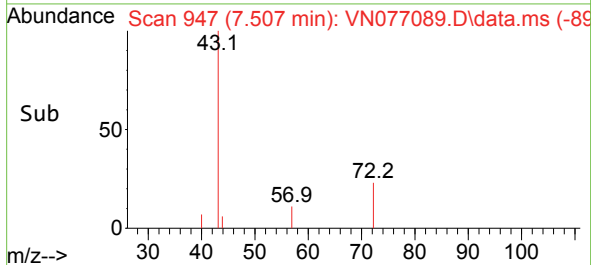
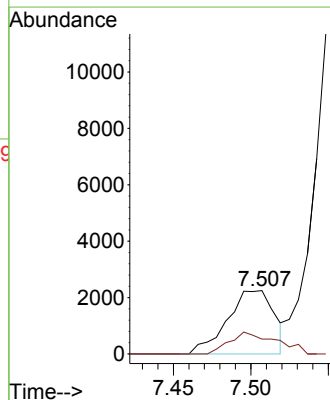
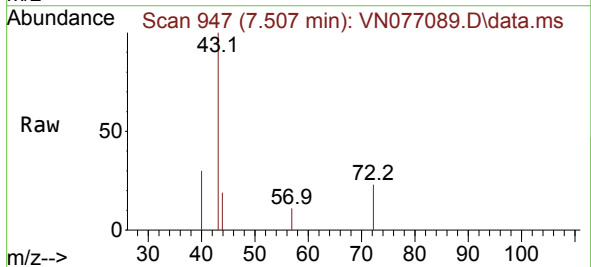
Instrument :
MSVOA_N
ClientSampleId :
IRV-3

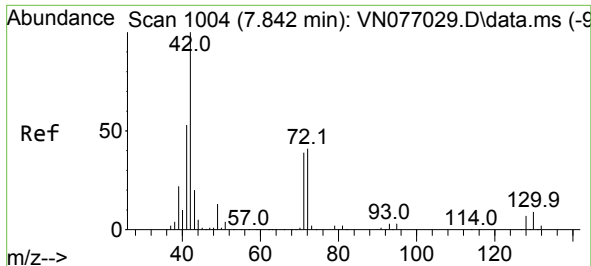
Tgt Ion:	84	Resp:	19936
Ion	Ratio	Lower	Upper
84	100		
49	133.2	103.8	155.6
51	35.4	32.3	48.5
86	58.9	49.9	74.9



#25
2-Butanone
Concen: 1.199 ug/l
RT: 7.507 min Scan# 947
Delta R.T. 0.018 min
Lab File: VN077089.D
Acq: 21 Mar 2023 14:41

Tgt Ion:	43	Resp:	4731
Ion	Ratio	Lower	Upper
43	100		
72	23.4	20.7	31.1





#29

Tetrahydrofuran

Concen: 0.468 ug/l

RT: 7.854 min Scan# 1006

Delta R.T. 0.012 min

Lab File: VN077089.D

Acq: 21 Mar 2023 14:41

Instrument :

MSVOA_N

ClientSampleId :

IRV-3

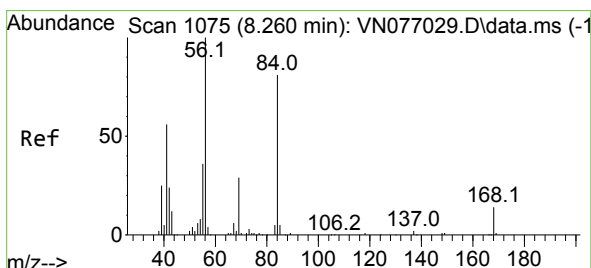
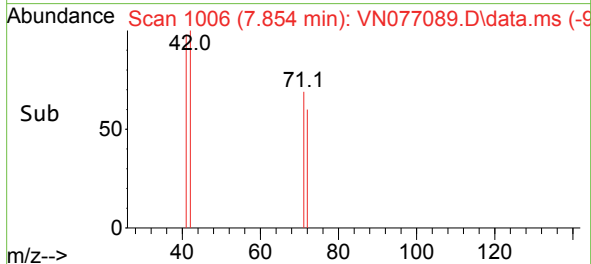
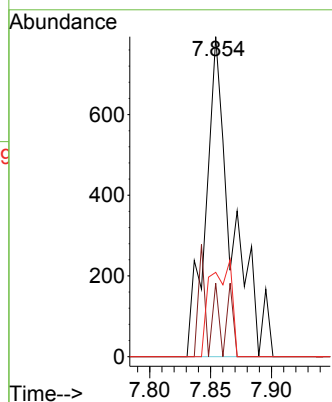
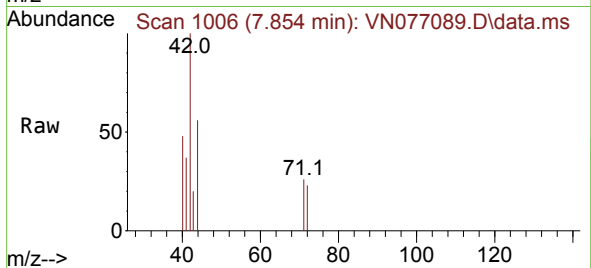
Tgt Ion: 42 Resp: 1197

Ion Ratio Lower Upper

42 100

72 0.0 33.2 49.8#

71 24.3 31.0 46.4#



#31

Cyclohexane

Concen: 0.937 ug/l

RT: 8.236 min Scan# 1071

Delta R.T. -0.024 min

Lab File: VN077089.D

Acq: 21 Mar 2023 14:41

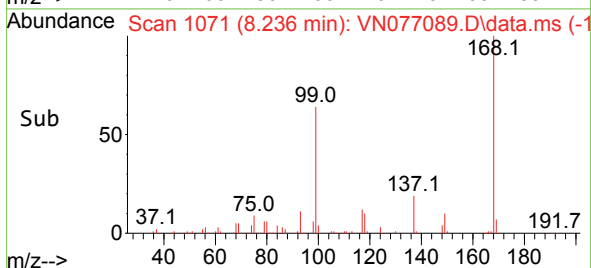
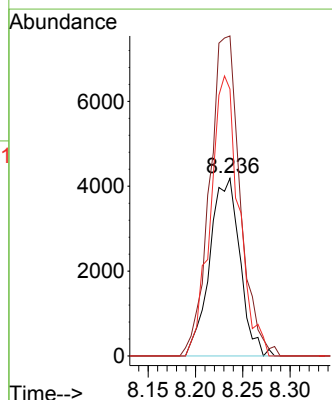
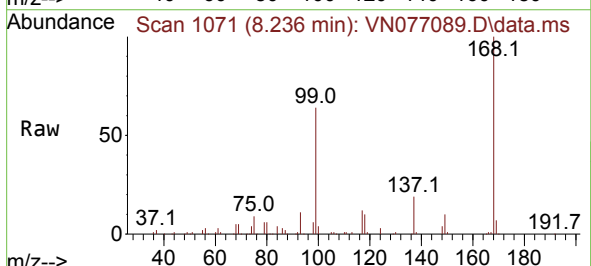
Tgt Ion: 56 Resp: 9283

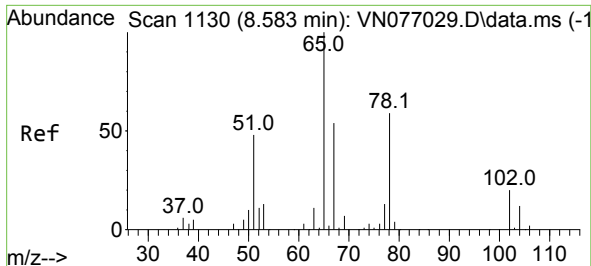
Ion Ratio Lower Upper

56 100

69 180.2 22.8 34.2#

84 150.2 64.7 97.1#





#33

1,2-Dichloroethane-d4

Concen: 48.258 ug/l

RT: 8.584 min Scan# 1130

Delta R.T. 0.001 min

Lab File: VN077089.D

Acq: 21 Mar 2023 14:41

Instrument :

MSVOA_N

ClientSampleId :

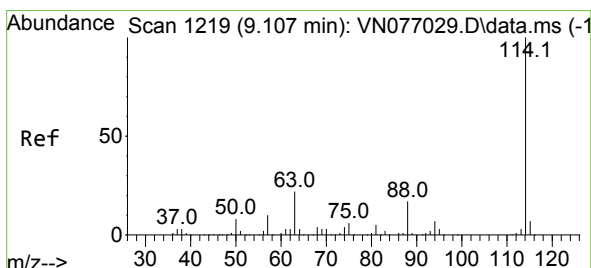
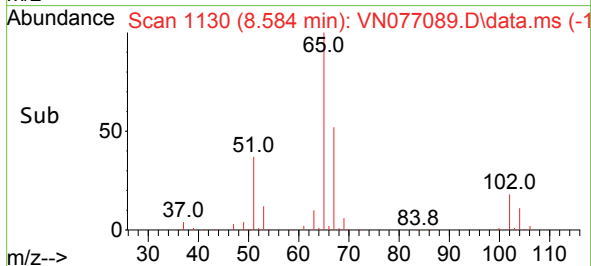
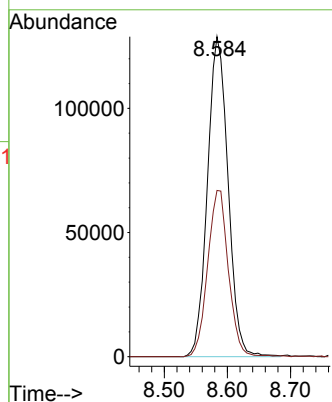
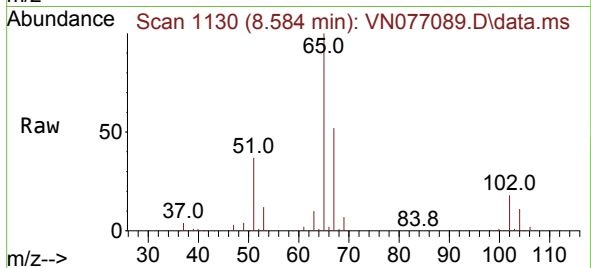
IRV-3

Tgt Ion: 65 Resp: 292227

Ion Ratio Lower Upper

65 100

67 52.4 0.0 105.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. 0.000 min

Lab File: VN077089.D

Acq: 21 Mar 2023 14:41

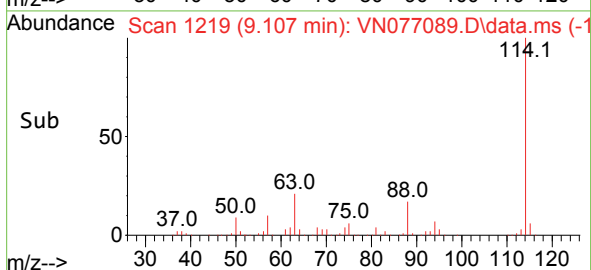
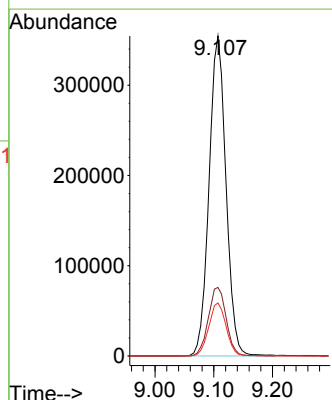
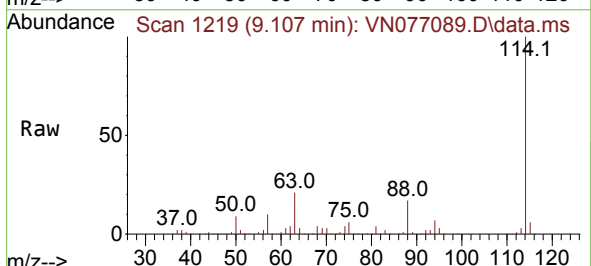
Tgt Ion: 114 Resp: 710166

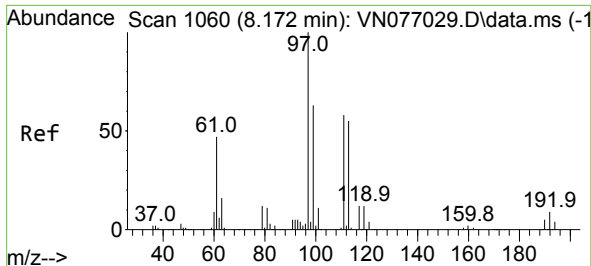
Ion Ratio Lower Upper

114 100

63 21.4 0.0 44.6

88 16.6 0.0 33.8

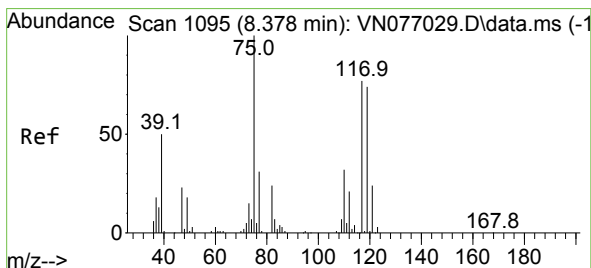
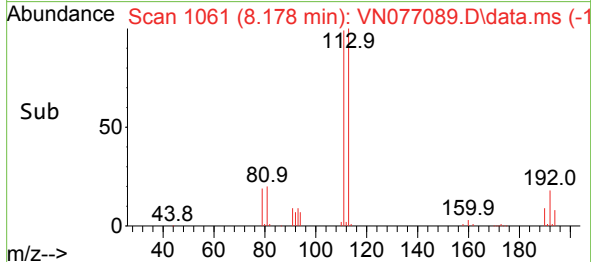
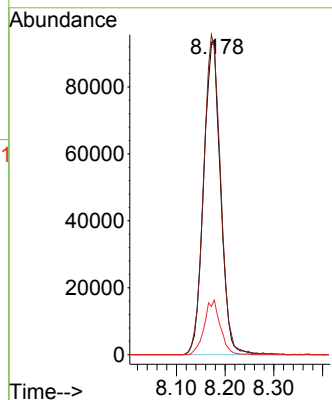
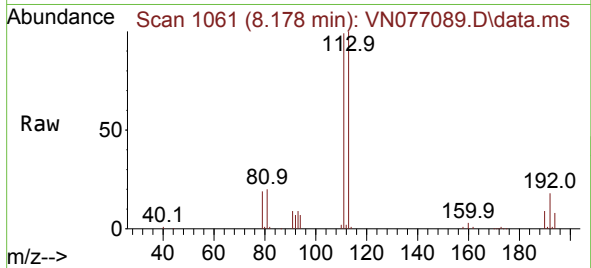




#35
Dibromofluoromethane
Concen: 45.306 ug/l
RT: 8.178 min Scan# 1060
Delta R.T. 0.006 min
Lab File: VN077089.D
Acq: 21 Mar 2023 14:41

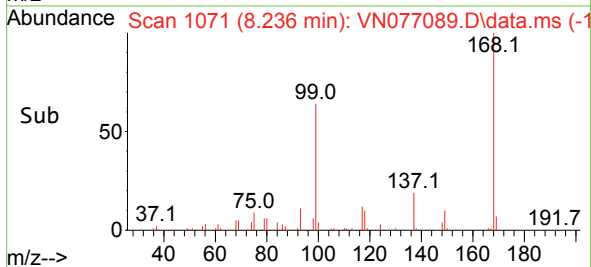
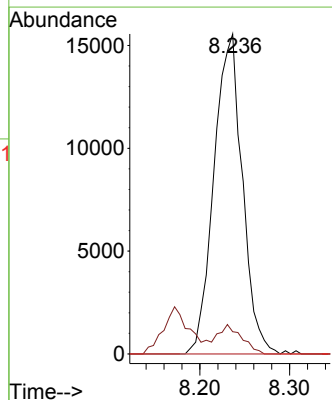
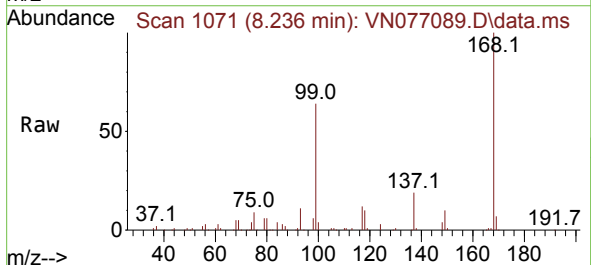
Instrument :
MSVOA_N
ClientSampleId :
IRV-3

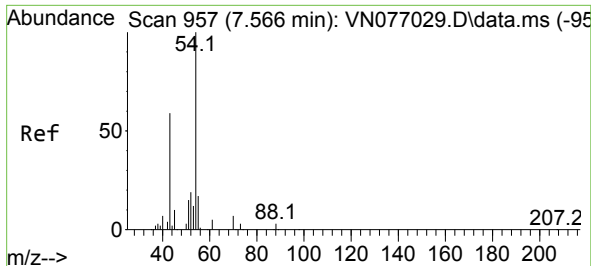
Tgt Ion:113 Resp: 225326
Ion Ratio Lower Upper
113 100
111 102.5 82.2 123.2
192 16.6 13.0 19.6



#36
1,1-Dichloropropene
Concen: 4.399 ug/l
RT: 8.236 min Scan# 1071
Delta R.T. -0.141 min
Lab File: VN077089.D
Acq: 21 Mar 2023 14:41

Tgt Ion: 75 Resp: 34169
Ion Ratio Lower Upper
75 100
110 7.5 15.9 47.7#
77 0.0 24.3 36.5#

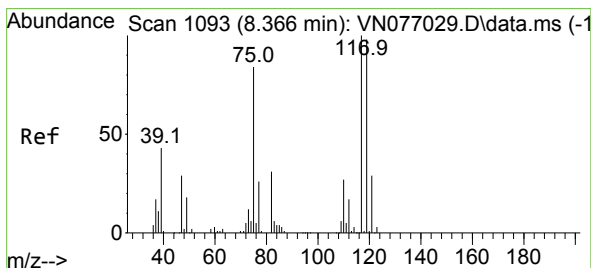
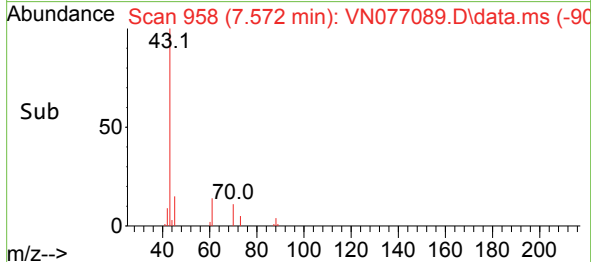
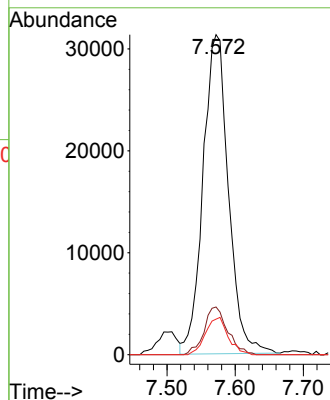
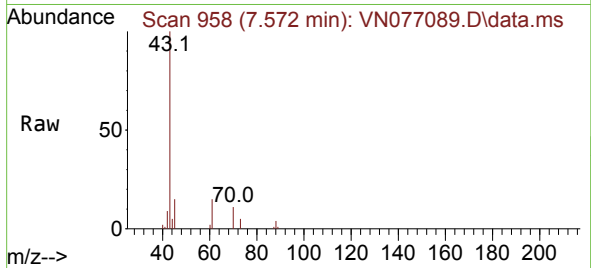




#37
Ethyl Acetate
Concen: 9.766 ug/l
RT: 7.572 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN077089.D
Acq: 21 Mar 2023 14:41

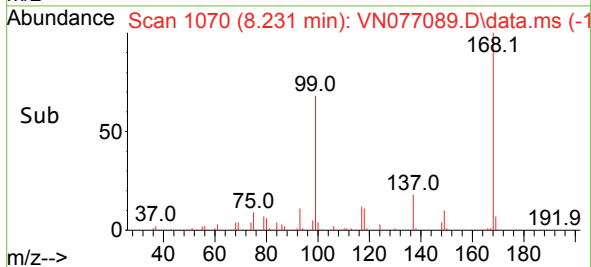
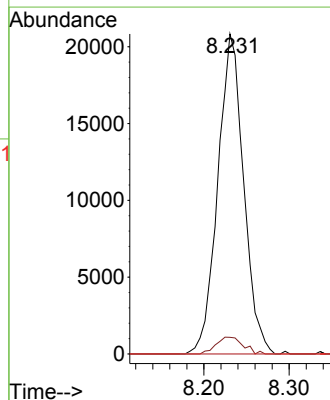
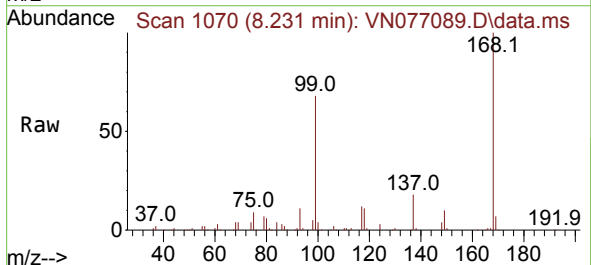
Instrument :
MSVOA_N
ClientSampleId :
IRV-3

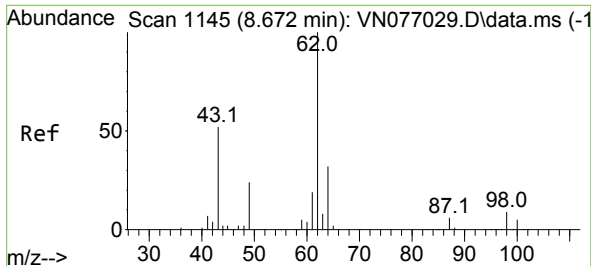
Tgt Ion: 43 Resp: 81169
Ion Ratio Lower Upper
43 100
61 13.8 11.0 16.6
70 10.4 8.4 12.6



#38
Carbon Tetrachloride
Concen: 5.799 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.135 min
Lab File: VN077089.D
Acq: 21 Mar 2023 14:41

Tgt Ion: 117 Resp: 43874
Ion Ratio Lower Upper
117 100
119 5.2 78.2 117.2#
121 0.0 23.2 34.8#





#42

1,2-Dichloroethane

Concen: 0.278 ug/l

RT: 8.684 min Scan# 1147

Delta R.T. 0.012 min

Lab File: VN077089.D

Acq: 21 Mar 2023 14:41

Instrument :

MSVOA_N

ClientSampleId :

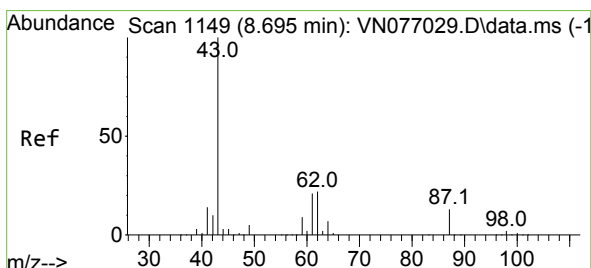
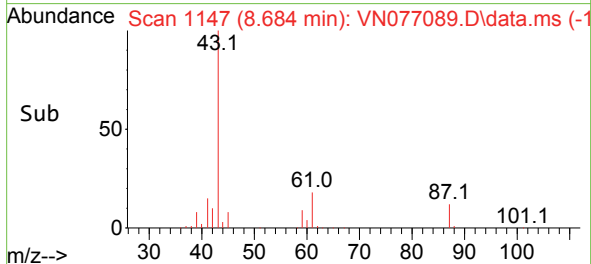
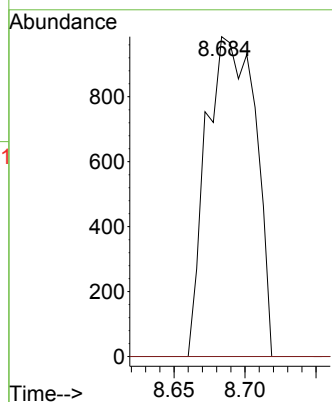
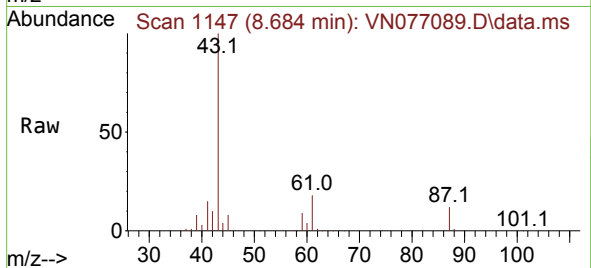
IRV-3

Tgt Ion: 62 Resp: 2368

Ion Ratio Lower Upper

62 100

98 0.0 0.0 17.4



#43

Isopropyl Acetate

Concen: 29.970 ug/l

RT: 8.695 min Scan# 1149

Delta R.T. 0.000 min

Lab File: VN077089.D

Acq: 21 Mar 2023 14:41

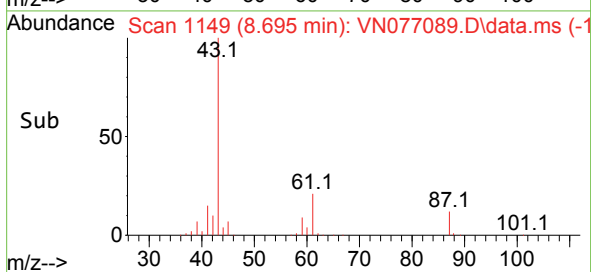
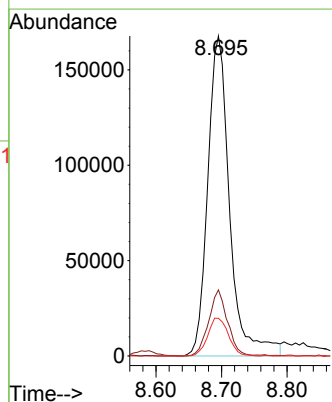
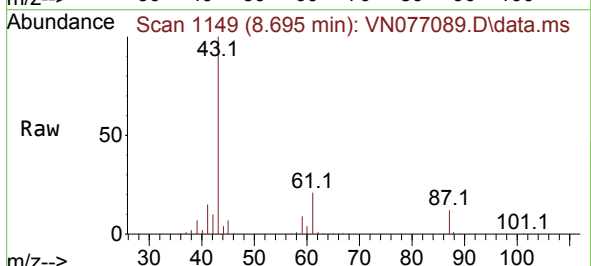
Tgt Ion: 43 Resp: 389108

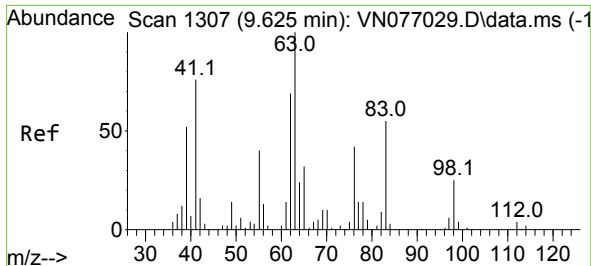
Ion Ratio Lower Upper

43 100

61 17.7 20.6 30.8#

87 11.2 10.0 15.0





#45

1,2-Dichloropropane

Concen: 0.727 ug/l

RT: 9.742 min Scan# 11

Delta R.T. 0.118 min

Lab File: VN077089.D

Acq: 21 Mar 2023 14:41

Instrument :

MSVOA_N

ClientSampleId :

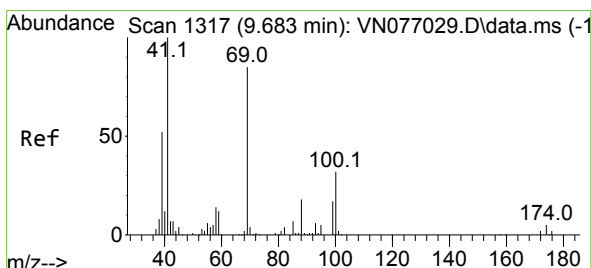
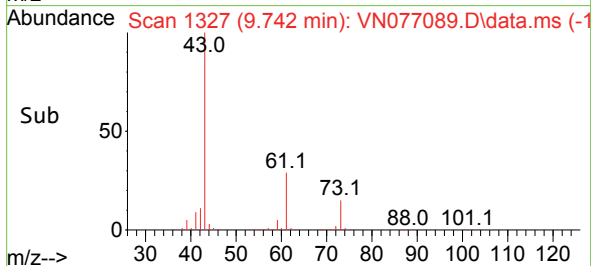
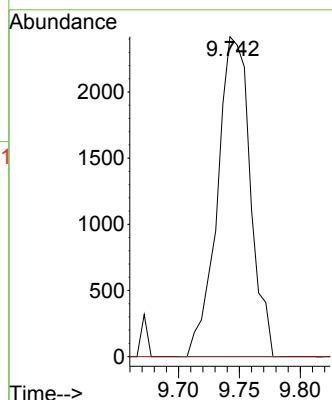
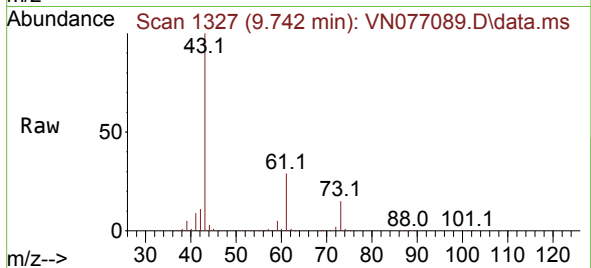
IRV-3

Tgt Ion: 63 Resp: 4550

Ion Ratio Lower Upper

63 100

65 0.0 25.5 38.3#



#48

Methyl methacrylate

Concen: 1.545 ug/l

RT: 9.666 min Scan# 1314

Delta R.T. -0.018 min

Lab File: VN077089.D

Acq: 21 Mar 2023 14:41

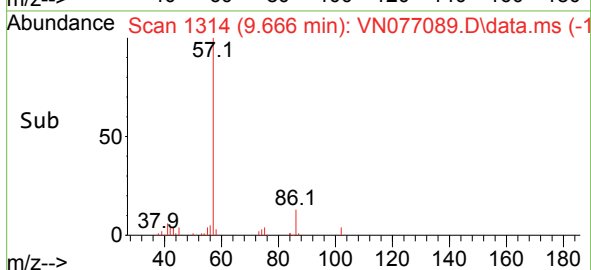
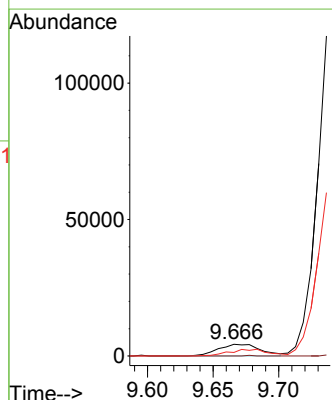
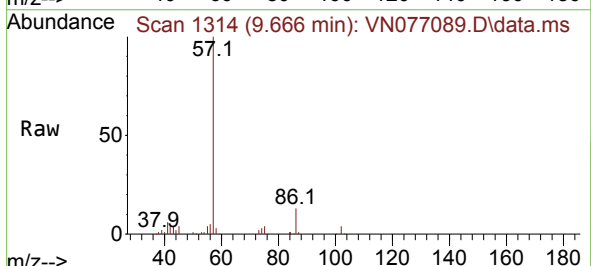
Tgt Ion: 41 Resp: 9590

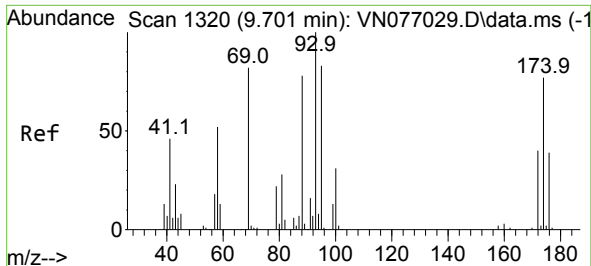
Ion Ratio Lower Upper

41 100

69 0.9 64.3 96.5#

39 53.4 43.2 64.8





#49

1,4-Dioxane

Concen: 2.962 ug/l

RT: 9.748 min Scan# 1328

Delta R.T. 0.047 min

Lab File: VN077089.D

Acq: 21 Mar 2023 14:41

Instrument :

MSVOA_N

ClientSampleId :

IRV-3

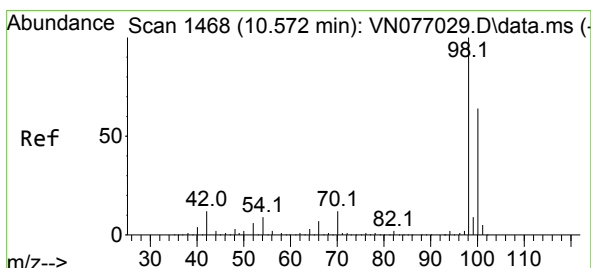
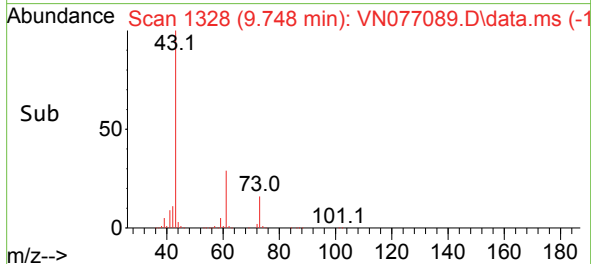
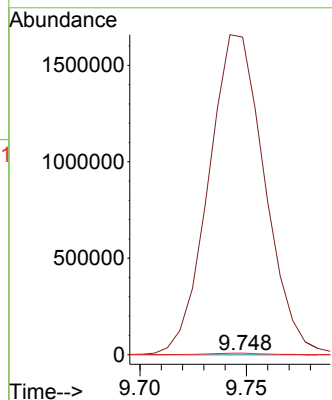
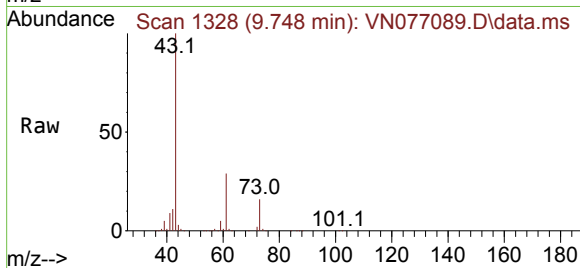
Tgt Ion: 88 Resp: 314

Ion Ratio Lower Upper

88 100

43 976582.8 22.2 33.2#

58 4600.0 60.8 91.2#



#50

Toluene-d8

Concen: 49.443 ug/l

RT: 10.572 min Scan# 1468

Delta R.T. 0.000 min

Lab File: VN077089.D

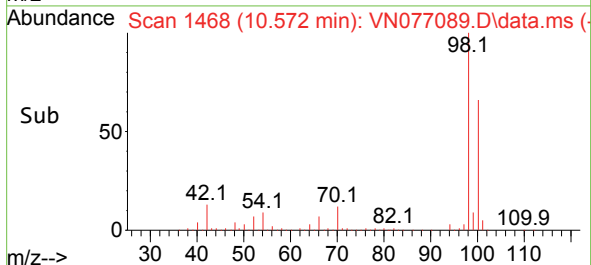
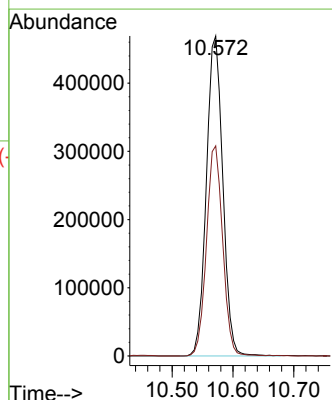
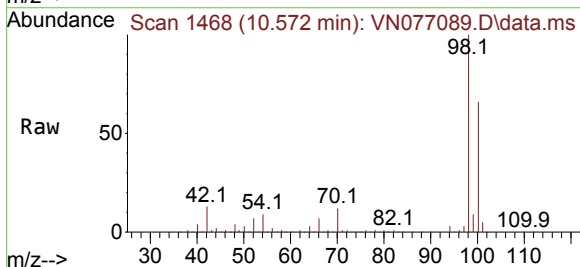
Acq: 21 Mar 2023 14:41

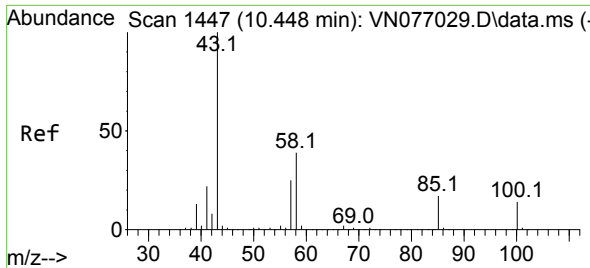
Tgt Ion: 98 Resp: 878382

Ion Ratio Lower Upper

98 100

100 64.9 51.6 77.4





#51

4-Methyl-2-Pentanone

Concen: 3.246 ug/l

RT: 10.448 min Scan# 1447

Delta R.T. 0.000 min

Lab File: VN077089.D

Acq: 21 Mar 2023 14:41

Instrument :

MSVOA_N

ClientSampleId :

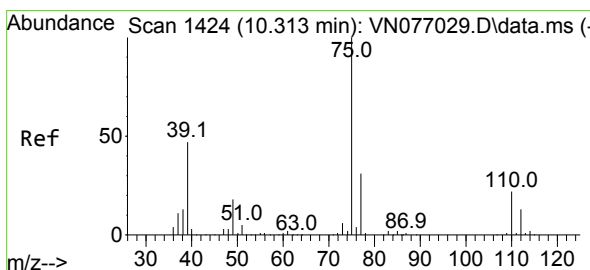
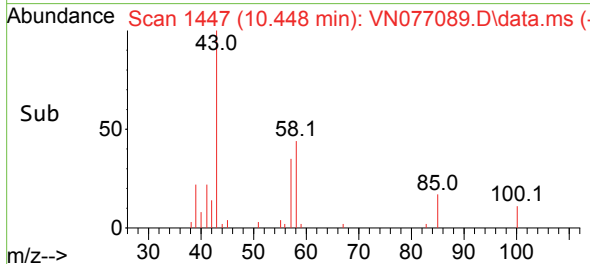
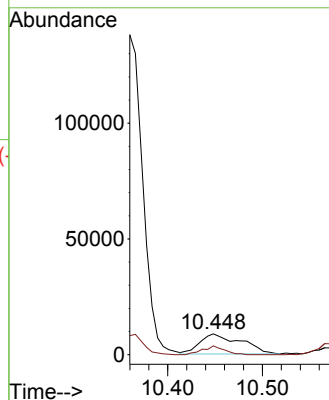
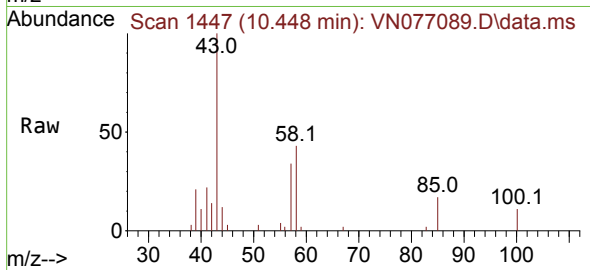
IRV-3

Tgt Ion: 43 Resp: 26246

Ion Ratio Lower Upper

43 100

58 23.2 31.1 46.7#



#54

cis-1,3-Dichloropropene

Concen: 13.143 ug/l

RT: 10.360 min Scan# 1432

Delta R.T. 0.047 min

Lab File: VN077089.D

Acq: 21 Mar 2023 14:41

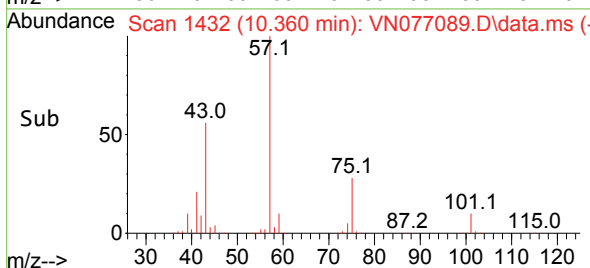
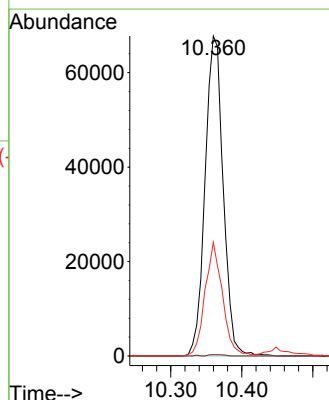
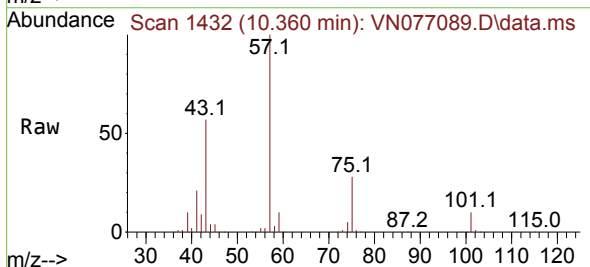
Tgt Ion: 75 Resp: 120291

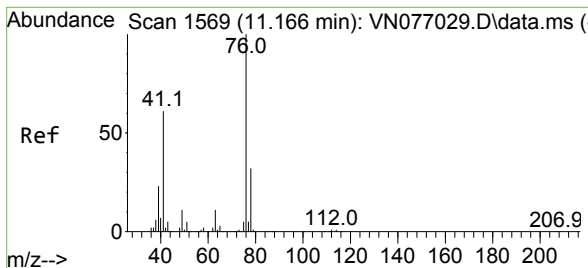
Ion Ratio Lower Upper

75 100

77 0.4 24.5 36.7#

39 35.5 37.8 56.6#

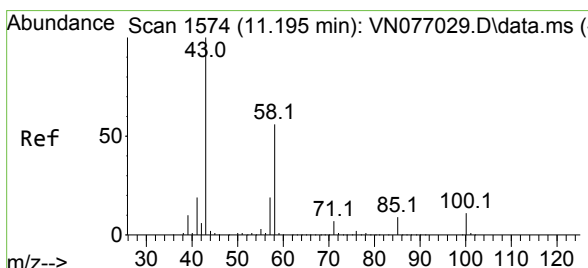
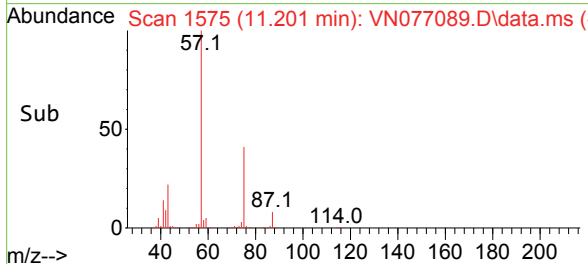
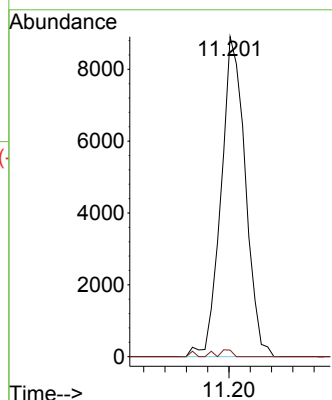
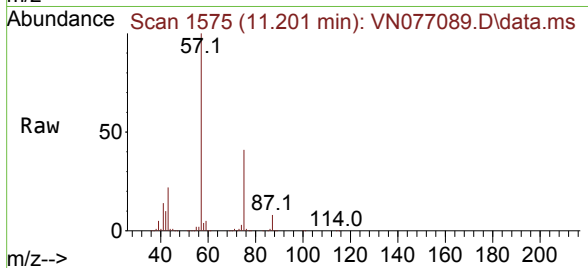




#57
1,3-Dichloropropane
Concen: 1.384 ug/l
RT: 11.201 min Scan# 1575
Delta R.T. 0.035 min
Lab File: VN077089.D
Acq: 21 Mar 2023 14:41

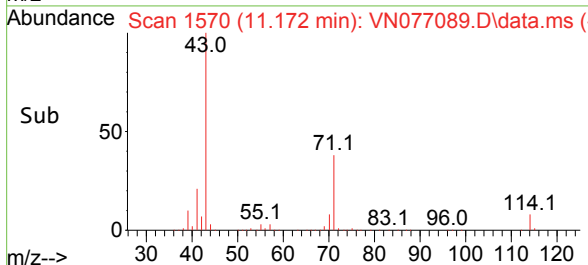
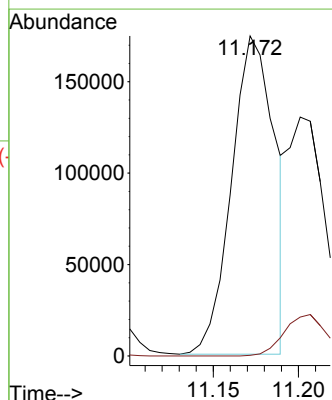
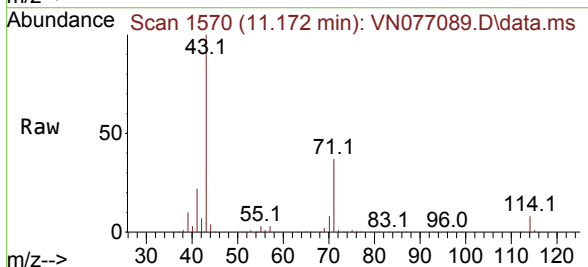
Instrument :
MSVOA_N
ClientSampleId :
IRV-3

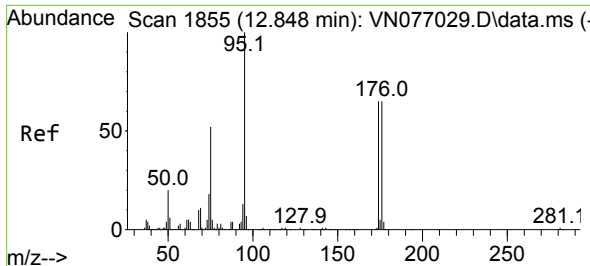
Tgt Ion: 76 Resp: 14057
Ion Ratio Lower Upper
76 100
78 1.3 25.3 37.9#



#59
2-Hexanone
Concen: 52.214 ug/l
RT: 11.172 min Scan# 1570
Delta R.T. -0.023 min
Lab File: VN077089.D
Acq: 21 Mar 2023 14:41

Tgt Ion: 43 Resp: 306195
Ion Ratio Lower Upper
43 100
58 0.0 27.7 83.1#

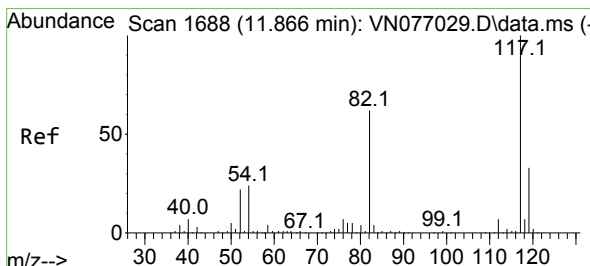
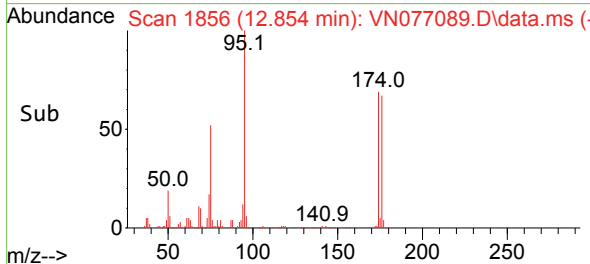
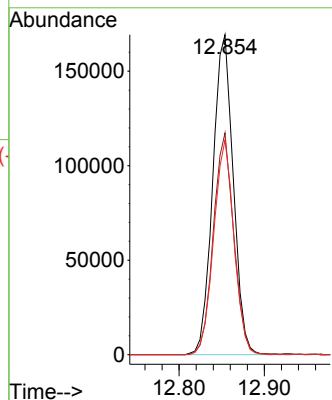
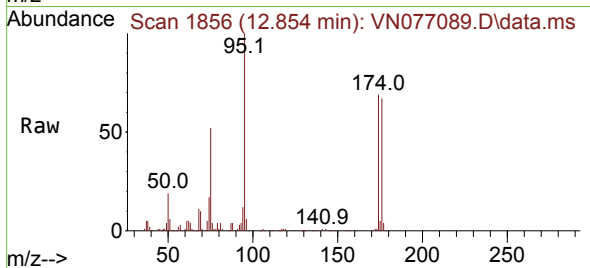




#62
4-Bromofluorobenzene
Concen: 45.004 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077089.D
Acq: 21 Mar 2023 14:41

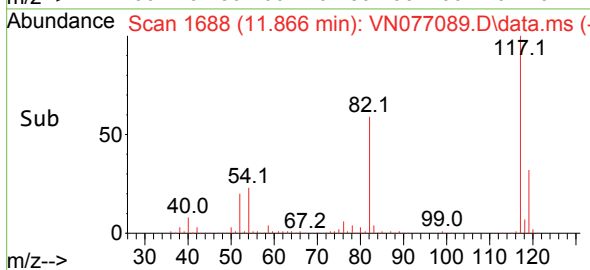
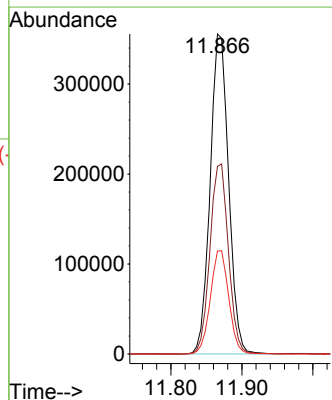
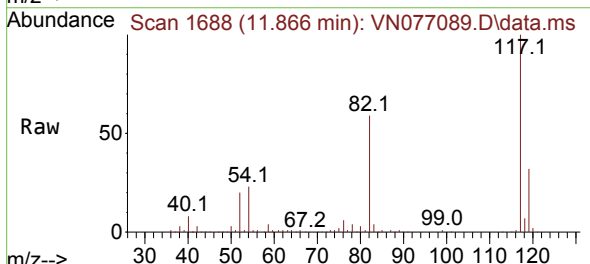
Instrument :
MSVOA_N
ClientSampleId :
IRV-3

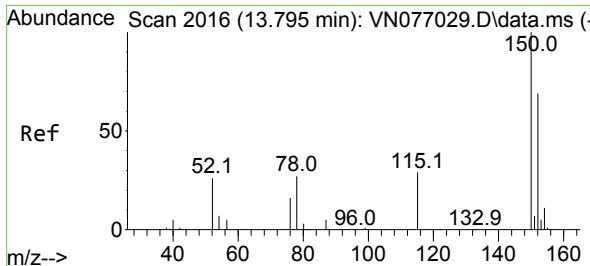
Tgt Ion: 95 Resp: 282521
Ion Ratio Lower Upper
95 100
174 69.0 0.0 136.6
176 66.5 0.0 130.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VN077089.D
Acq: 21 Mar 2023 14:41

Tgt Ion: 117 Resp: 641827
Ion Ratio Lower Upper
117 100
82 58.6 49.4 74.0
119 32.2 26.5 39.7

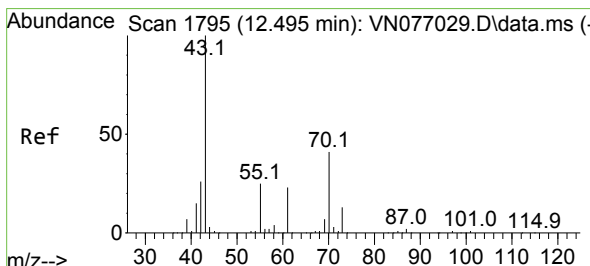
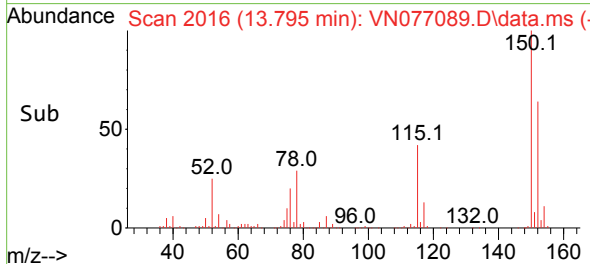
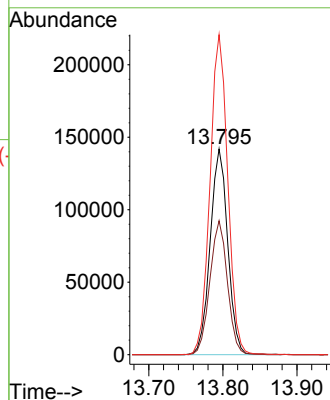
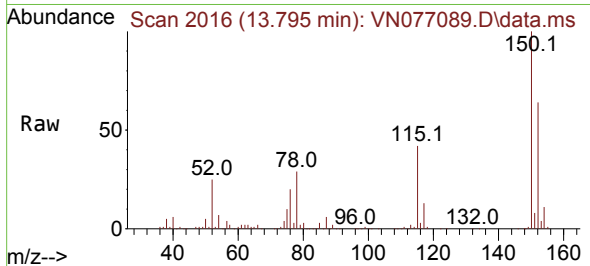




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN077089.D
Acq: 21 Mar 2023 14:41

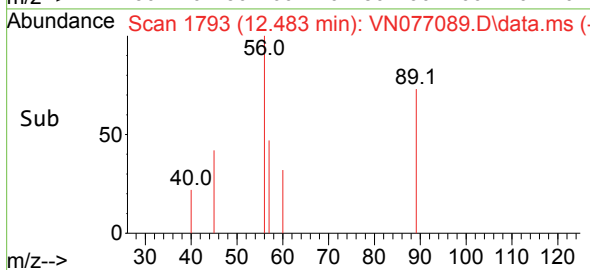
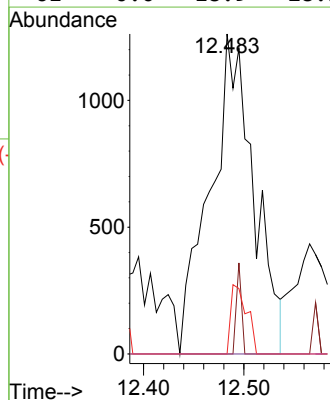
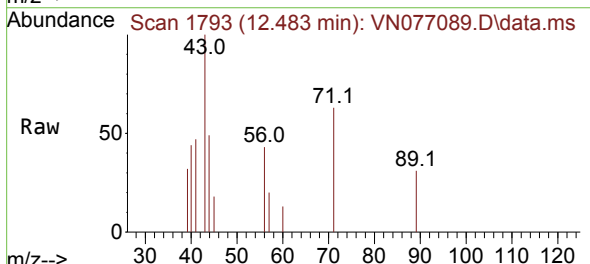
Instrument :
MSVOA_N
ClientSampleId :
IRV-3

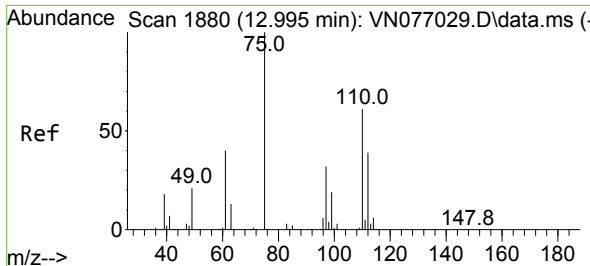
Tgt Ion:152 Resp: 233623
Ion Ratio Lower Upper
152 100
115 65.0 31.9 95.7
150 156.9 0.0 348.0



#74
N-ethyl acetate
Concen: 0.420 ug/l
RT: 12.483 min Scan# 1793
Delta R.T. -0.012 min
Lab File: VN077089.D
Acq: 21 Mar 2023 14:41

Tgt Ion: 43 Resp: 3804
Ion Ratio Lower Upper
43 100
70 3.3 33.6 50.4#
55 7.9 20.3 30.5#
61 0.0 18.9 28.3#

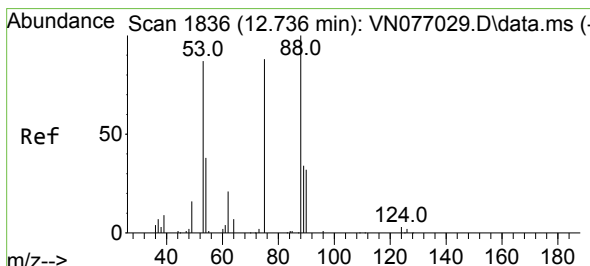
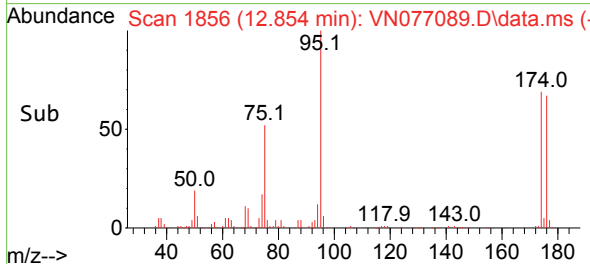
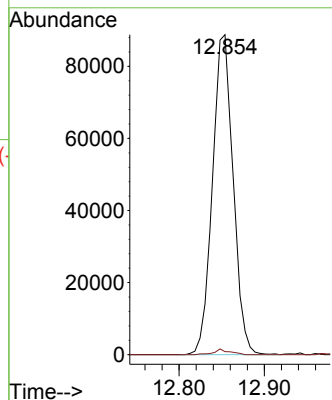
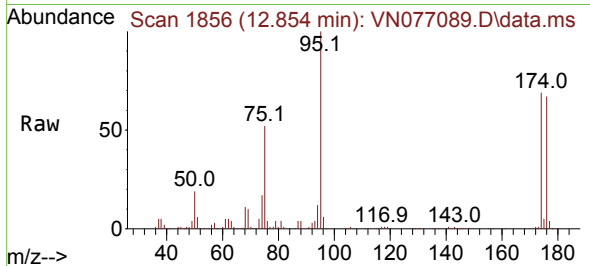




#76
1,2,3-Trichloropropane
Concen: 24.772 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN077089.D
Acq: 21 Mar 2023 14:41

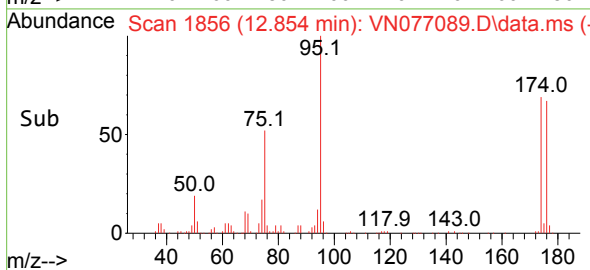
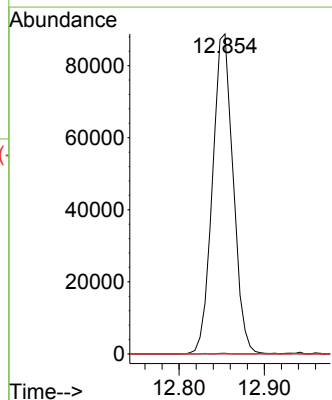
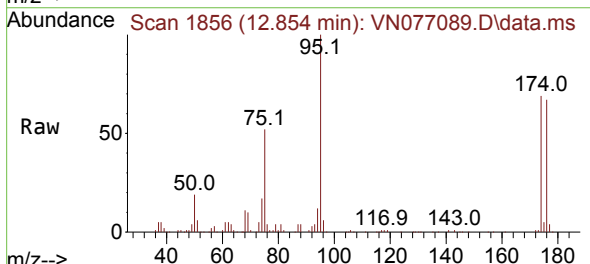
Instrument :
MSVOA_N
ClientSampleId :
IRV-3

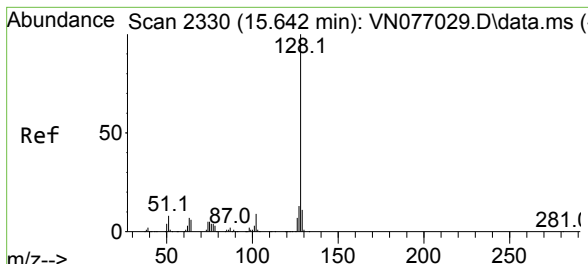
Tgt Ion: 75 Resp: 149695
Ion Ratio Lower Upper
75 100
77 1.3 107.3 322.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 68.186 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.118 min
Lab File: VN077089.D
Acq: 21 Mar 2023 14:41

Tgt Ion: 75 Resp: 149695
Ion Ratio Lower Upper
75 100
53 0.1 80.8 121.2#
89 0.0 34.2 51.4#





#95
 Naphthalene
 Concen: 2.046 ug/l
 RT: 15.642 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN077089.D
 Acq: 21 Mar 2023 14:41

Instrument :
 MSVOA_N
 ClientSampleId :
 IRV-3

Tgt Ion:	128	Resp:	2156
Ion	Ratio	Lower	Upper
128	100		
127	2.8	10.0	15.0#
129	6.0	8.6	13.0#

