

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031423\
 Data File : VN076989.D
 Acq On : 14 Mar 2023 17:58
 Operator : JC\MD
 Sample : 01863-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 030923-1

Quant Time: Mar 15 04:27:32 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031023W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 10 13:47:39 2023
 Response via : Initial Calibration

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

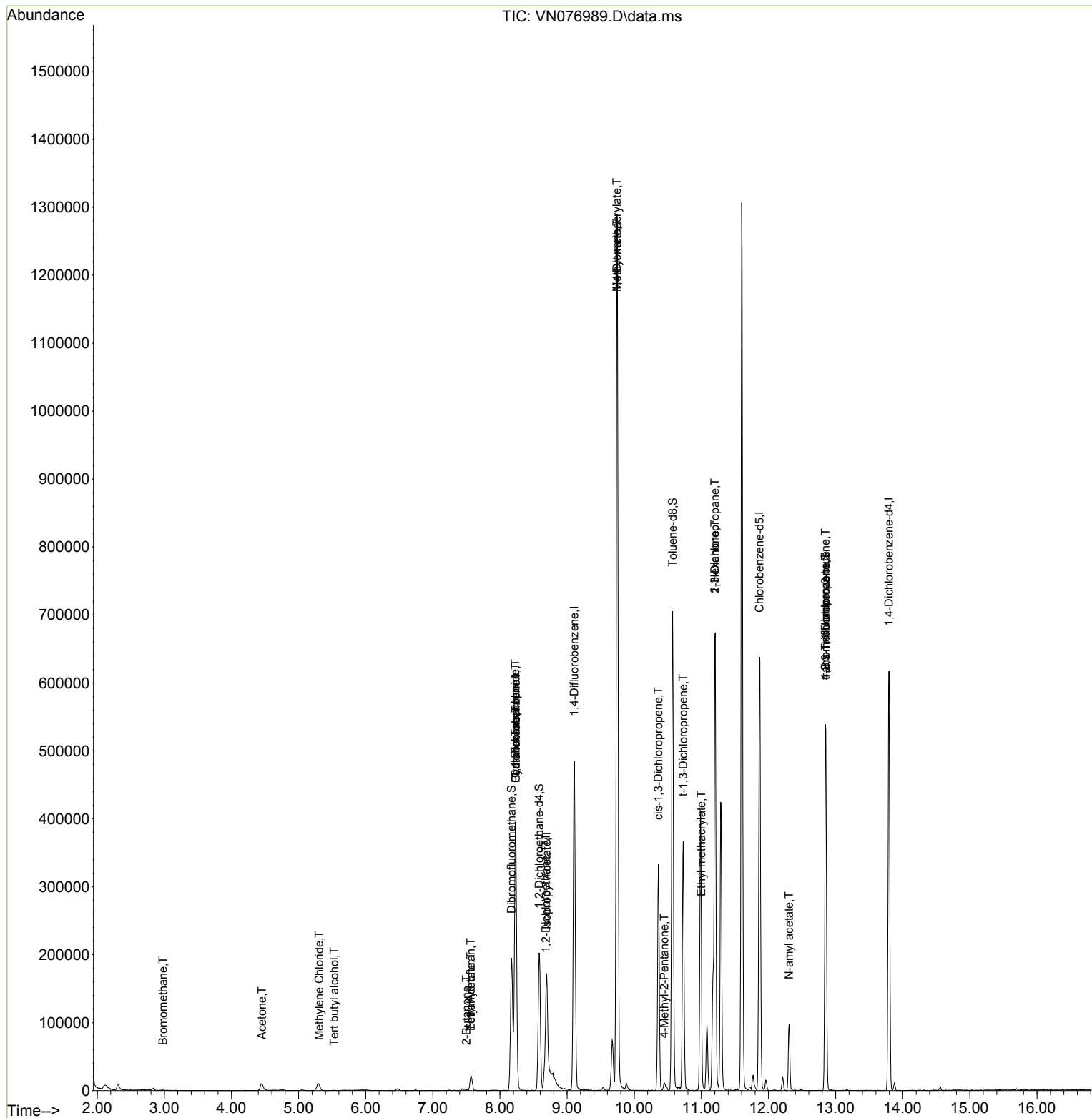
Internal Standards						
1) Pentafluorobenzene	8.236	168	272320	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	397344	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	359781	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	157835	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	204204	50.250	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.500%			
35) Dibromofluoromethane	8.172	113	131009	49.472	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.940%			
50) Toluene-d8	10.572	98	476836	48.857	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.720%			
62) 4-Bromofluorobenzene	12.848	95	176448	49.428	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 98.860%			
Target Compounds						
					Qvalue	
5) Bromomethane	2.978	94	389	0.215	ug/l #	1
11) Tert butyl alcohol	5.531	59	473	0.837	ug/l #	72
16) Acetone	4.454	43	21945	15.584	ug/l #	75
20) Methylene Chloride	5.307	84	9359	2.585	ug/l #	77
25) 2-Butanone	7.501	43	2350	1.173	ug/l #	74
29) Tetrahydrofuran	7.566	42	2050	1.651	ug/l #	24
31) Cyclohexane	8.236	56	6642	1.139	ug/l #	21
36) 1,1-Dichloropropene	8.231	75	22297	5.444	ug/l #	52
37) Ethyl Acetate	7.566	43	32146	9.815	ug/l	97
38) Carbon Tetrachloride	8.231	117	31602	6.593	ug/l #	16
42) 1,2-Dichloroethane	8.684	62	1251	0.266	ug/l #	71
43) Isopropyl Acetate	8.695	43	216135	37.381	ug/l #	73
48) Methyl methacrylate	9.742	41	142300	50.230	ug/l #	30
49) 1,4-Dioxane	9.742	88	225	4.194	ug/l #	1
51) 4-Methyl-2-Pentanone	10.448	43	4824	1.389	ug/l	91
53) t-1,3-Dichloropropene	10.730	75	1141	0.260	ug/l	91
54) cis-1,3-Dichloropropene	10.360	75	58140	12.066	ug/l #	72
56) Ethyl methacrylate	11.001	69	1694	0.386	ug/l #	1
57) 1,3-Dichloropropane	11.201	76	6873	1.348	ug/l #	42
59) 2-Hexanone	11.201	43	97164	38.367	ug/l #	42
74) N-amyl acetate	12.307	43	29785	6.396	ug/l #	42
76) 1,2,3-Trichloropropane	12.848	75	112974	29.523	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.848	75	112974	96.438	ug/l #	15

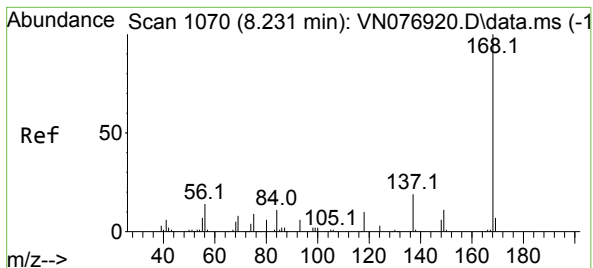
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Mar 10 13:47:39 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.236 min Scan# 1

Delta R.T. 0.005 min

Lab File: VN076989.D

Acq: 14 Mar 2023 17:58

Instrument :

MSVOA_N

ClientSampleId :

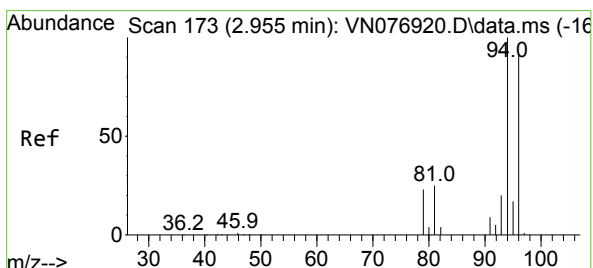
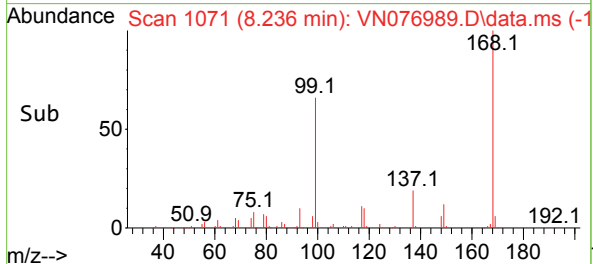
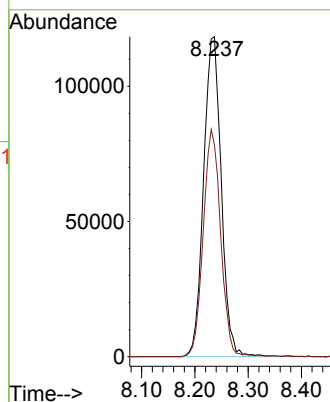
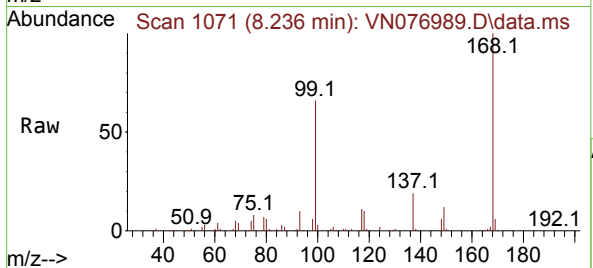
030923-1

Tgt Ion:168 Resp: 272320

Ion Ratio Lower Upper

168 100

99 66.2 48.6 73.0



#5

Bromomethane

Concen: 0.215 ug/l

RT: 2.978 min Scan# 177

Delta R.T. 0.023 min

Lab File: VN076989.D

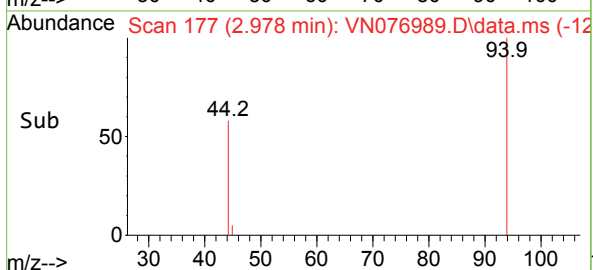
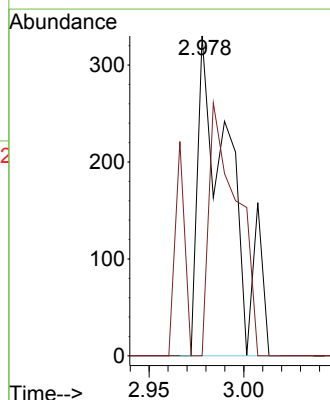
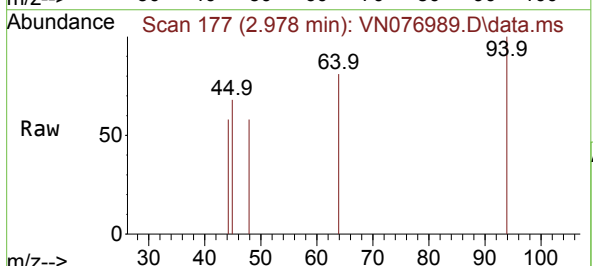
Acq: 14 Mar 2023 17:58

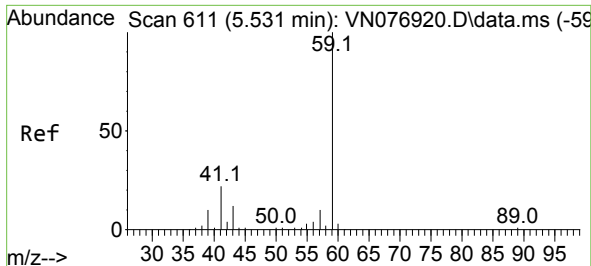
Tgt Ion: 94 Resp: 389

Ion Ratio Lower Upper

94 100

96 0.0 79.0 118.6#

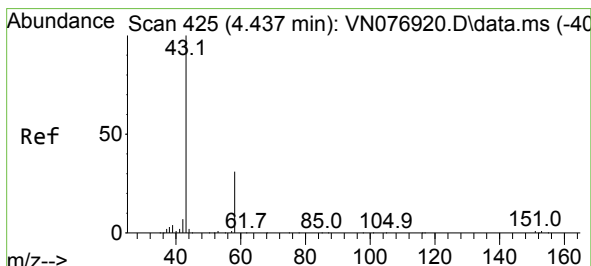
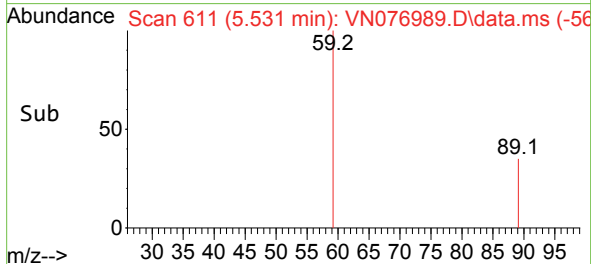
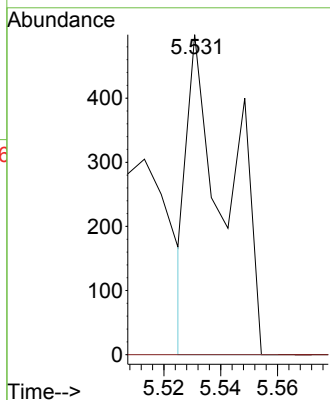
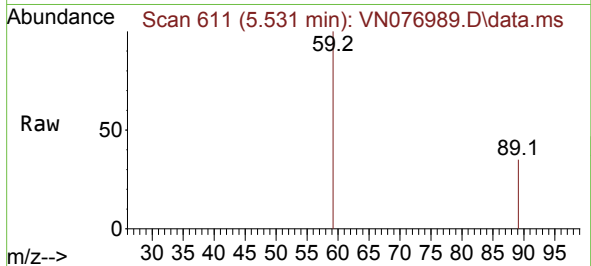




#11
Tert butyl alcohol
Concen: 0.837 ug/l
RT: 5.531 min Scan# 611
Delta R.T. -0.000 min
Lab File: VN076989.D
Acq: 14 Mar 2023 17:58

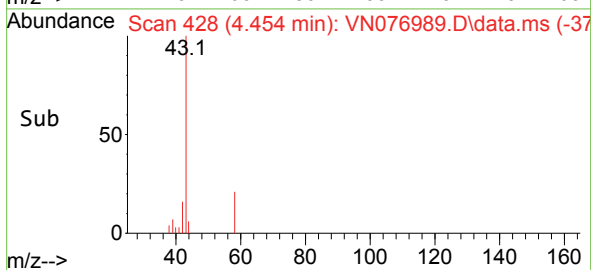
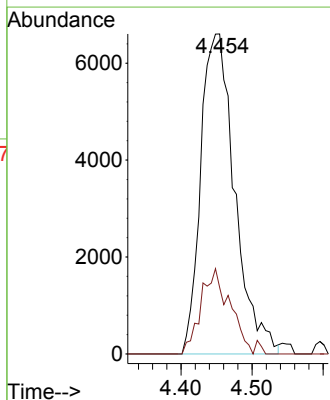
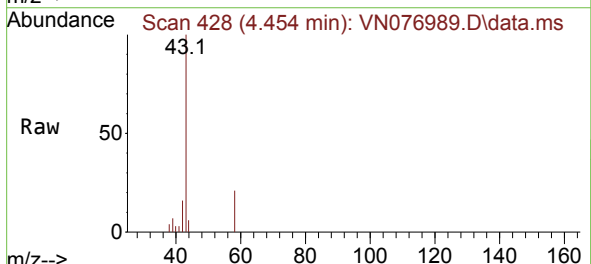
Instrument :
MSVOA_N
ClientSampleId :
030923-1

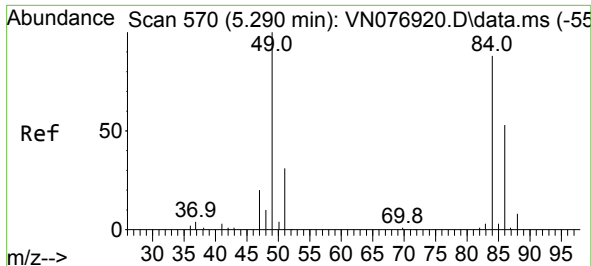
Tgt Ion: 59 Resp: 473
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#16
Acetone
Concen: 15.584 ug/l
RT: 4.454 min Scan# 428
Delta R.T. 0.017 min
Lab File: VN076989.D
Acq: 14 Mar 2023 17:58

Tgt Ion: 43 Resp: 21945
Ion Ratio Lower Upper
43 100
58 20.8 28.2 42.2#

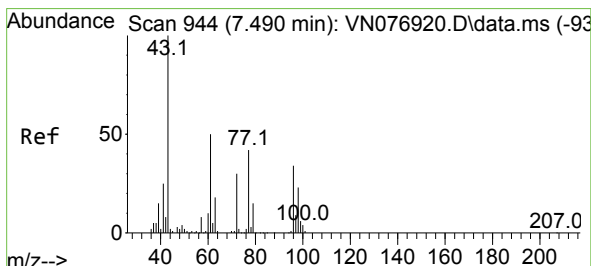
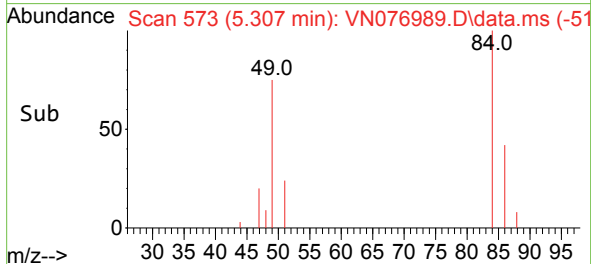
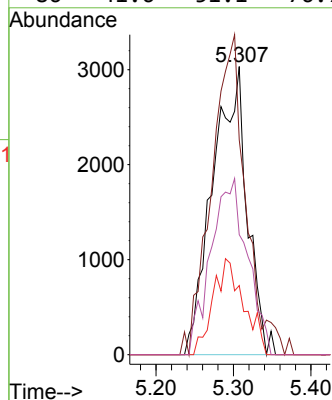
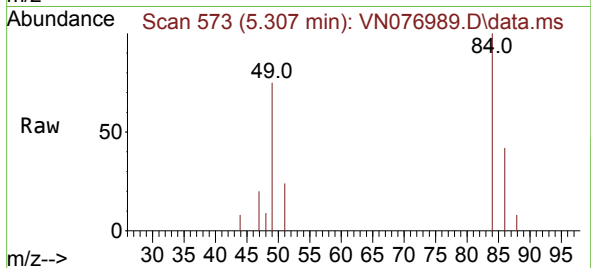




#20
Methylene Chloride
Concen: 2.585 ug/l
RT: 5.307 min Scan# 51
Delta R.T. 0.017 min
Lab File: VN076989.D
Acq: 14 Mar 2023 17:58

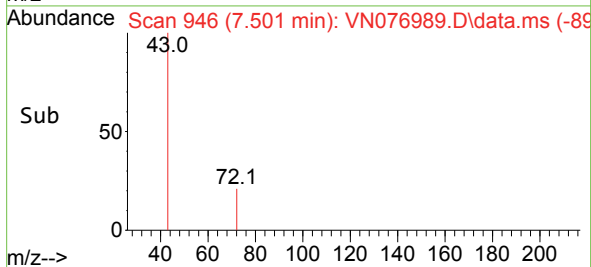
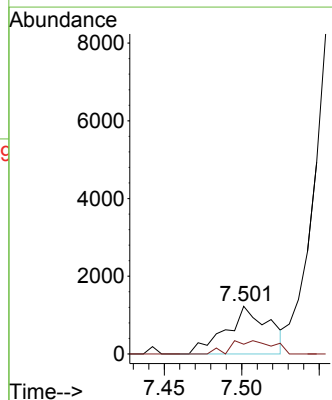
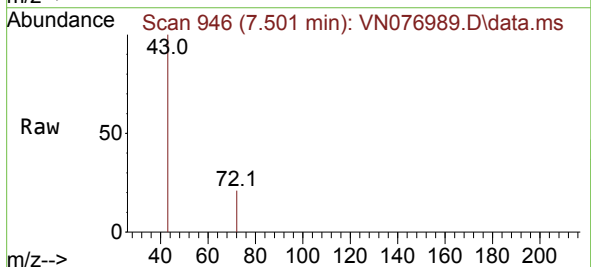
Instrument :
MSVOA_N
ClientSampleId :
030923-1

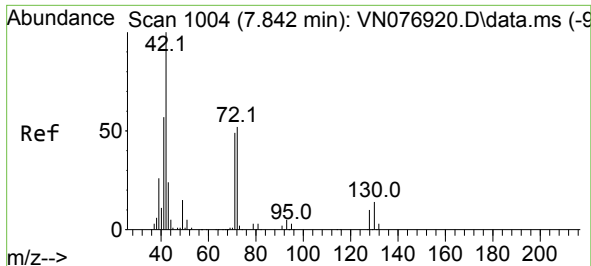
Tgt Ion: 84 Resp: 9359
Ion Ratio Lower Upper
84 100
49 74.5 76.6 114.8#
51 24.0 25.4 38.2#
86 41.6 51.1 76.7#



#25
2-Butanone
Concen: 1.173 ug/l
RT: 7.501 min Scan# 946
Delta R.T. 0.011 min
Lab File: VN076989.D
Acq: 14 Mar 2023 17:58

Tgt Ion: 43 Resp: 2350
Ion Ratio Lower Upper
43 100
72 20.6 28.8 43.2#





#29

Tetrahydrofuran

Concen: 1.651 ug/l

RT: 7.566 min Scan# 91

Delta R.T. -0.276 min

Lab File: VN076989.D

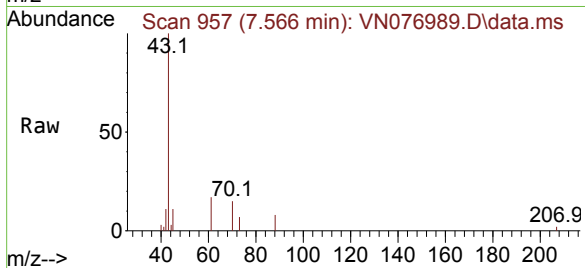
Acq: 14 Mar 2023 17:58

Instrument :

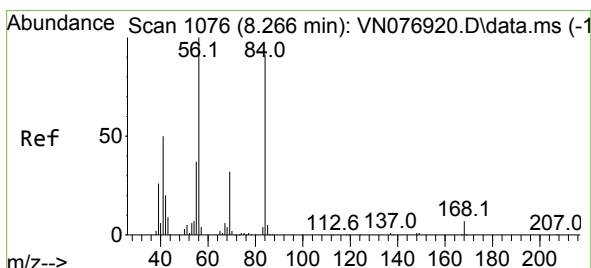
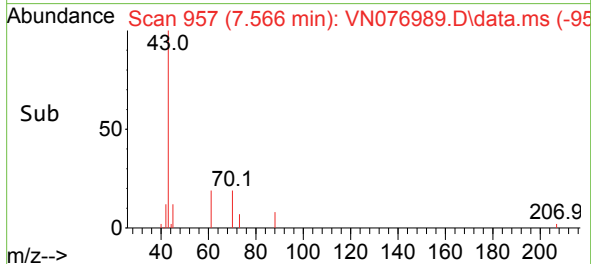
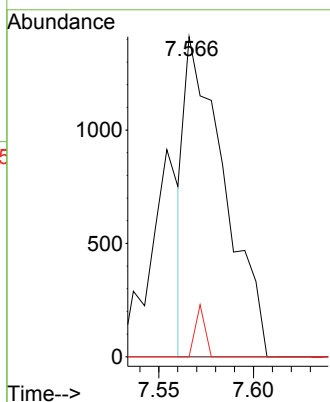
MSVOA_N

ClientSampleId :

030923-1



Tgt Ion:	42	Resp:	2050
Ion	Ratio	Lower	Upper
42	100		
72	0.0	48.6	73.0#
71	4.0	45.1	67.7#



#31

Cyclohexane

Concen: 1.139 ug/l

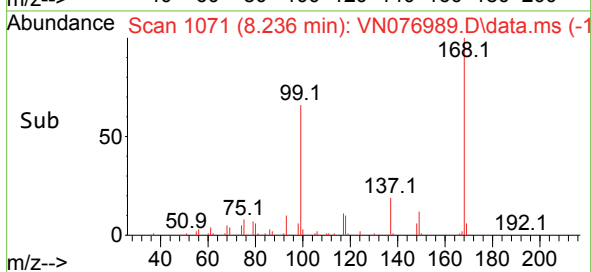
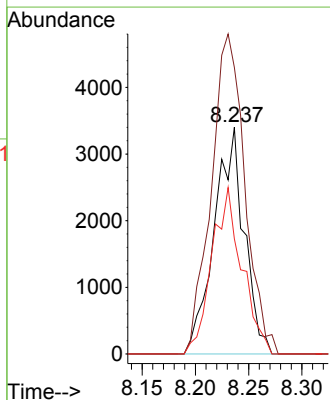
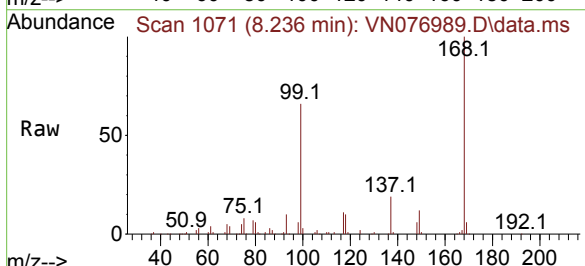
RT: 8.236 min Scan# 1071

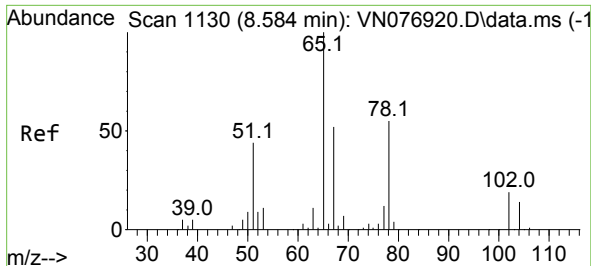
Delta R.T. -0.030 min

Lab File: VN076989.D

Acq: 14 Mar 2023 17:58

Tgt Ion:	56	Resp:	6642
Ion	Ratio	Lower	Upper
56	100		
69	126.4	27.0	40.6#
84	50.8	82.9	124.3#





#33

1,2-Dichloroethane-d4

Concen: 50.250 ug/l

RT: 8.584 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN076989.D

Acq: 14 Mar 2023 17:58

Instrument :

MSVOA_N

ClientSampleId :

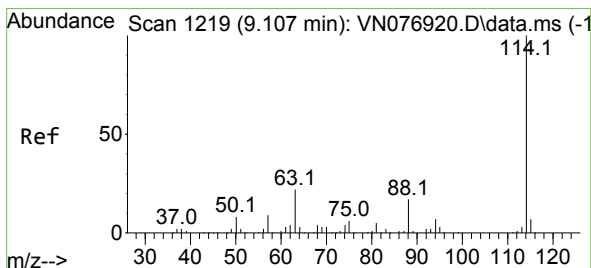
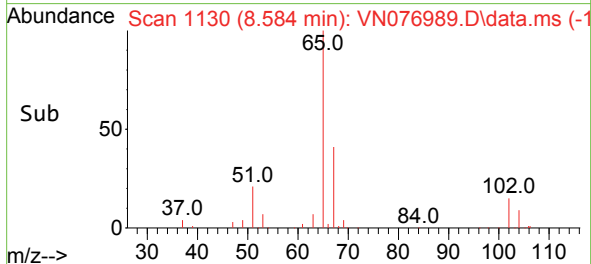
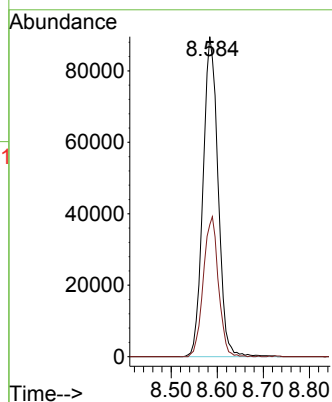
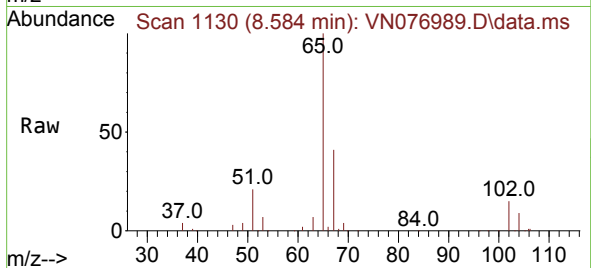
030923-1

Tgt Ion: 65 Resp: 204204

Ion Ratio Lower Upper

65 100

67 43.8 0.0 107.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. 0.000 min

Lab File: VN076989.D

Acq: 14 Mar 2023 17:58

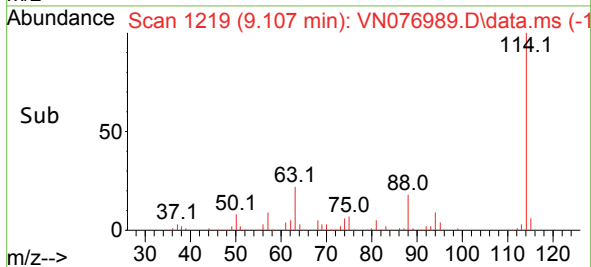
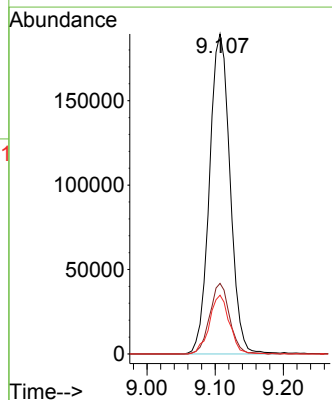
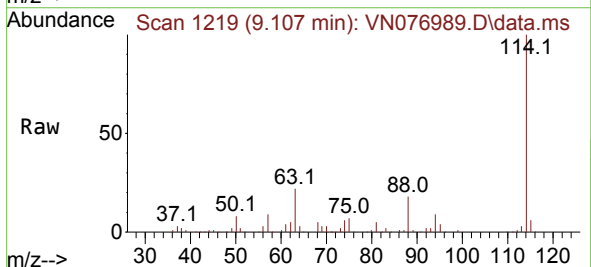
Tgt Ion: 114 Resp: 397344

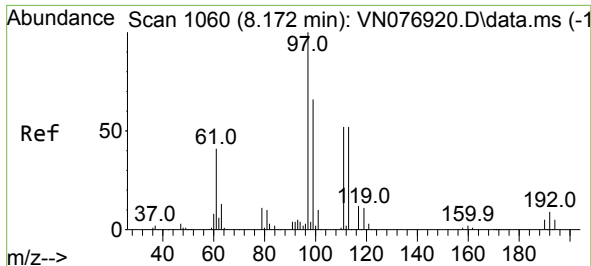
Ion Ratio Lower Upper

114 100

63 22.0 0.0 36.6

88 18.3 0.0 28.6

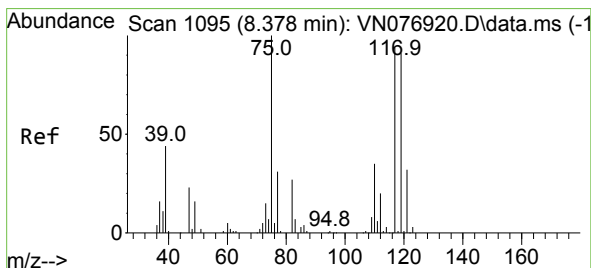
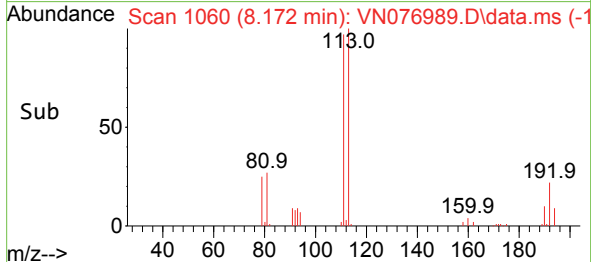
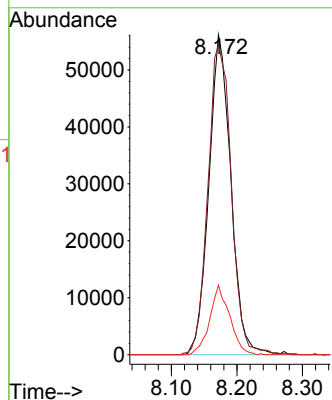
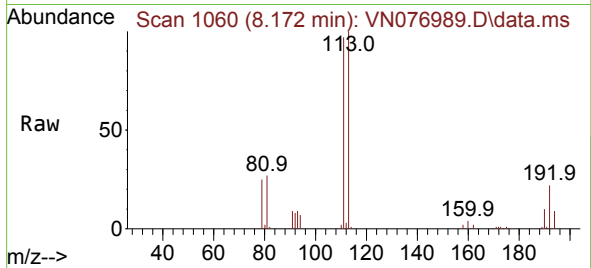




#35
Dibromofluoromethane
Concen: 49.472 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. -0.000 min
Lab File: VN076989.D
Acq: 14 Mar 2023 17:58

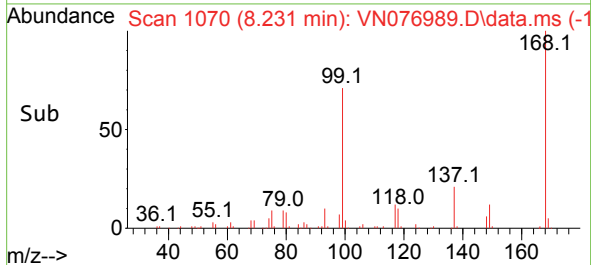
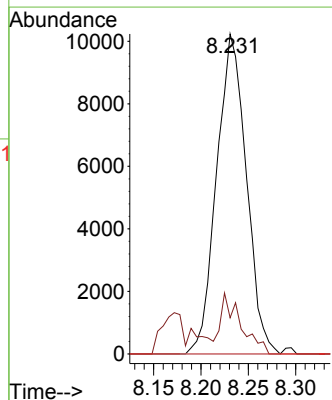
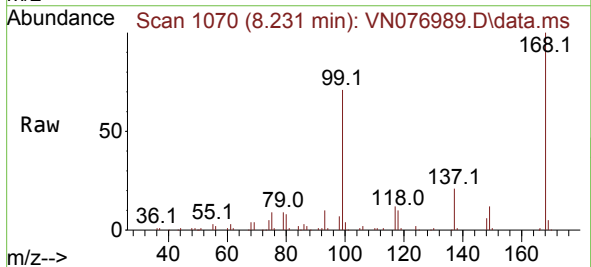
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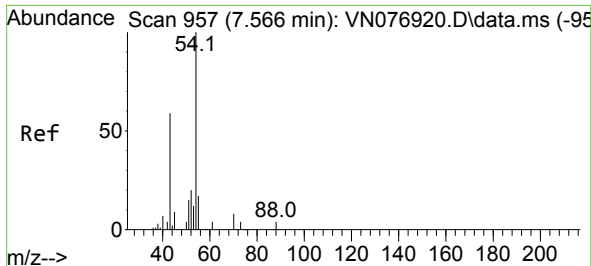
Tgt Ion:113 Resp: 131009
Ion Ratio Lower Upper
113 100
111 102.9 81.8 122.8
192 19.7 13.9 20.9



#36
1,1-Dichloropropene
Concen: 5.444 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.147 min
Lab File: VN076989.D
Acq: 14 Mar 2023 17:58

Tgt Ion: 75 Resp: 22297
Ion Ratio Lower Upper
75 100
110 13.0 18.9 56.9#
77 0.0 24.9 37.3#

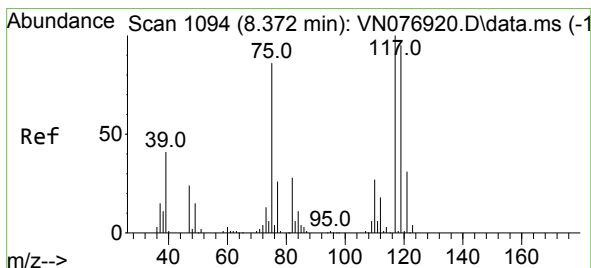
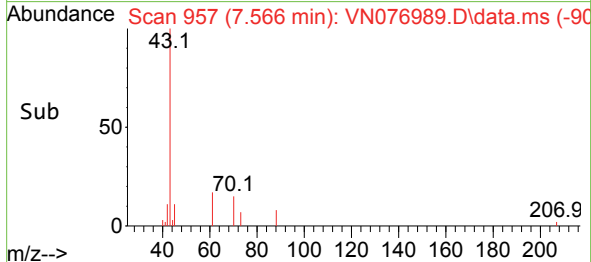
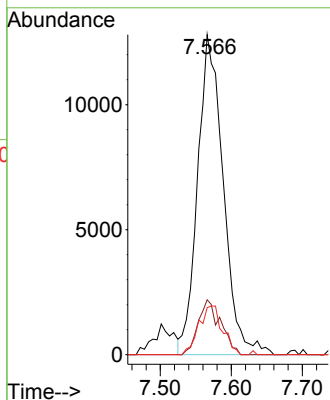
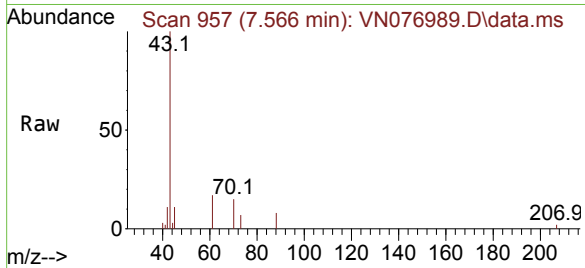




#37
Ethyl Acetate
Concen: 9.815 ug/l
RT: 7.566 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN076989.D
Acq: 14 Mar 2023 17:58

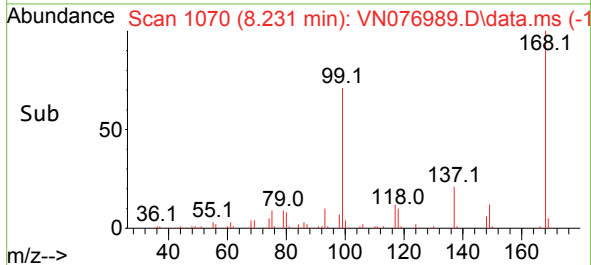
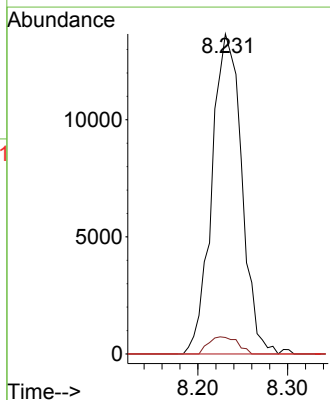
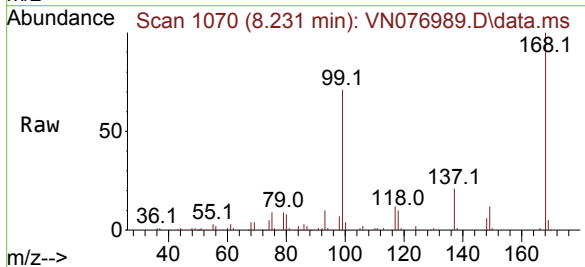
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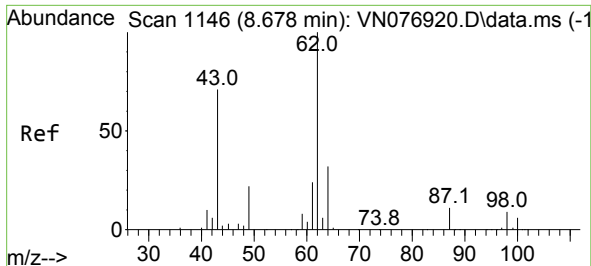
Tgt Ion: 43 Resp: 32146
Ion Ratio Lower Upper
43 100
61 15.0 13.5 20.3
70 14.2 11.0 16.6



#38
Carbon Tetrachloride
Concen: 6.593 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.141 min
Lab File: VN076989.D
Acq: 14 Mar 2023 17:58

Tgt Ion: 117 Resp: 31602
Ion Ratio Lower Upper
117 100
119 5.1 76.9 115.3#
121 0.0 23.2 34.8#





#42

1,2-Dichloroethane

Concen: 0.266 ug/l

RT: 8.684 min Scan# 1147

Delta R.T. 0.006 min

Lab File: VN076989.D

Acq: 14 Mar 2023 17:58

Instrument :

MSVOA_N

ClientSampleId :

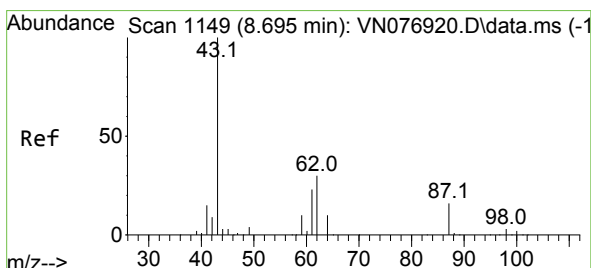
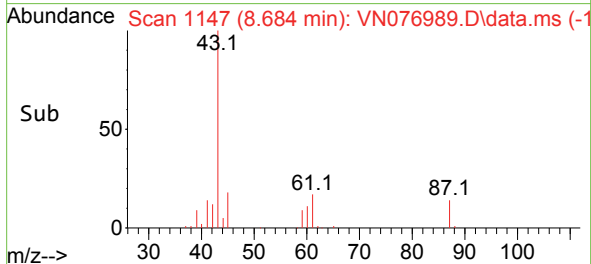
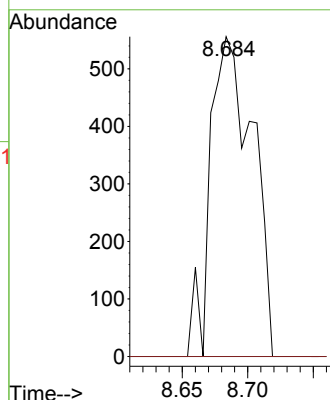
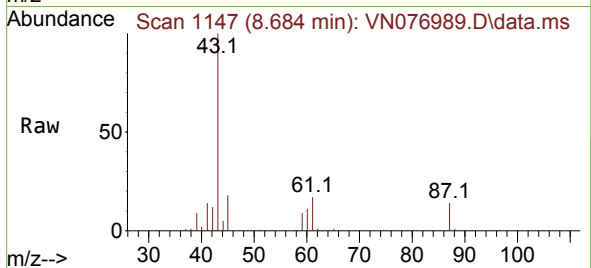
030923-1

Tgt Ion: 62 Resp: 1251

Ion Ratio Lower Upper

62 100

98 0.0 0.0 21.8



#43

Isopropyl Acetate

Concen: 37.381 ug/l

RT: 8.695 min Scan# 1149

Delta R.T. 0.000 min

Lab File: VN076989.D

Acq: 14 Mar 2023 17:58

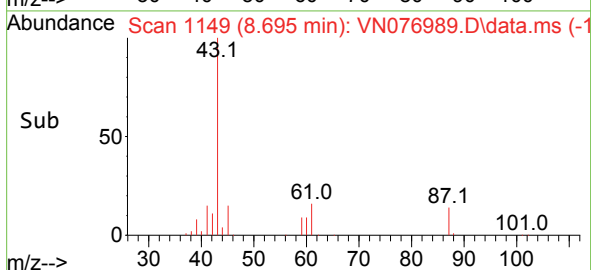
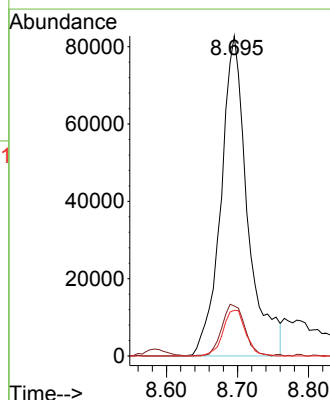
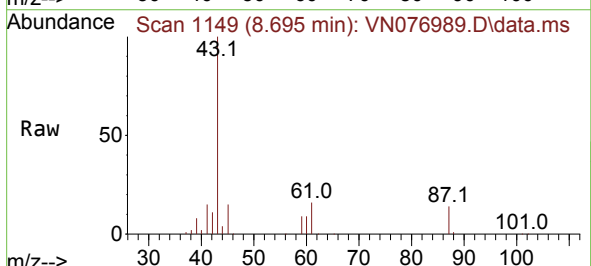
Tgt Ion: 43 Resp: 216135

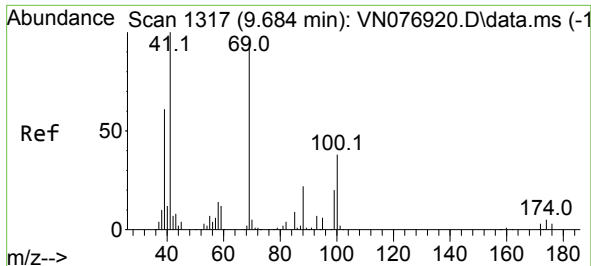
Ion Ratio Lower Upper

43 100

61 13.9 26.2 39.2#

87 12.1 14.8 22.2#

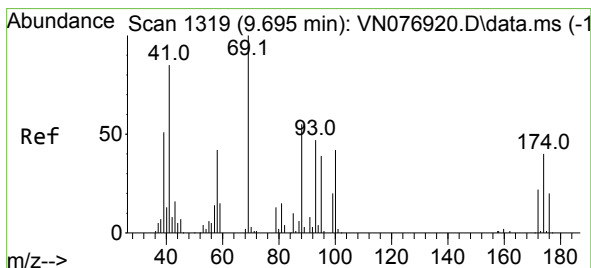
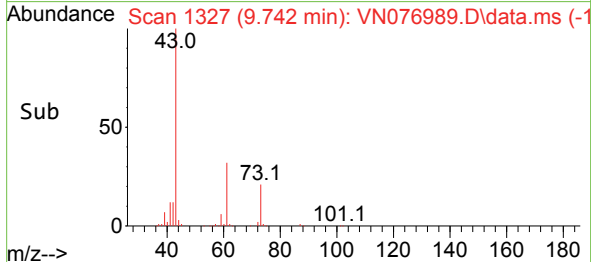
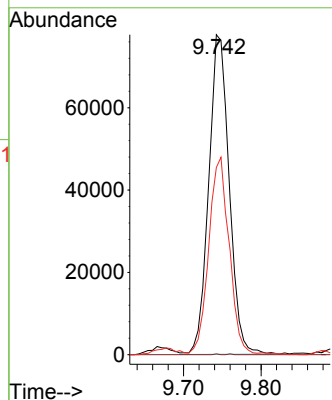
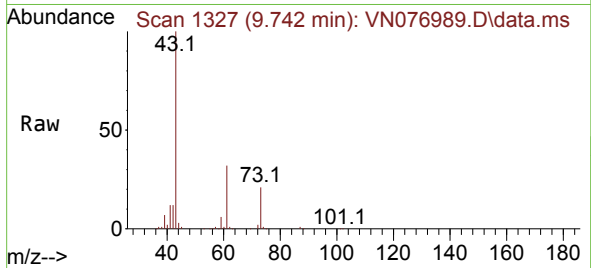




#48
Methyl methacrylate
Concen: 50.230 ug/l
RT: 9.742 min Scan# 1317
Delta R.T. 0.058 min
Lab File: VN076989.D
Acq: 14 Mar 2023 17:58

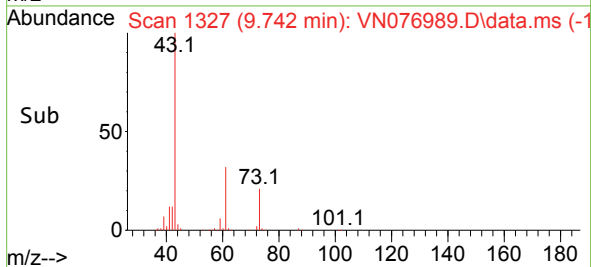
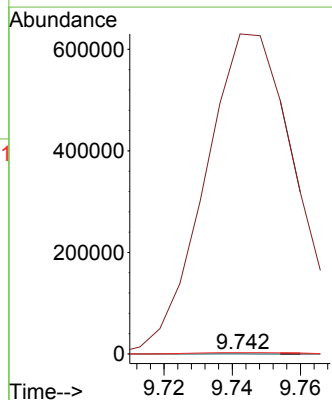
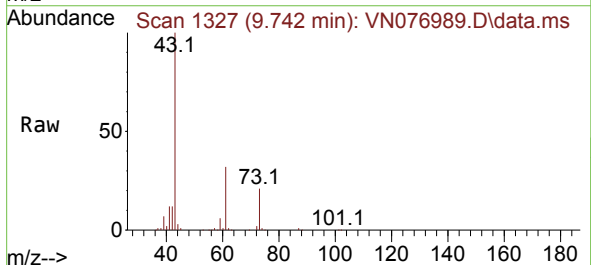
Instrument :
MSVOA_N
ClientSampleId :
030923-1

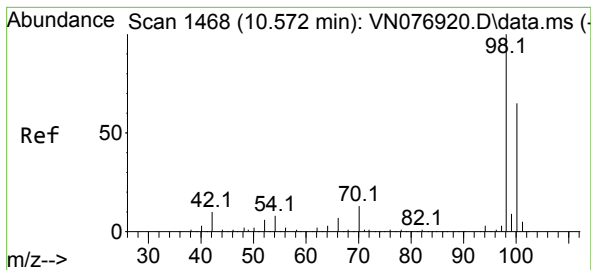
Tgt Ion: 41 Resp: 142300
Ion Ratio Lower Upper
41 100
69 0.0 92.6 139.0#
39 60.7 51.4 77.0



#49
1,4-Dioxane
Concen: 4.194 ug/l
RT: 9.742 min Scan# 1327
Delta R.T. 0.047 min
Lab File: VN076989.D
Acq: 14 Mar 2023 17:58

Tgt Ion: 88 Resp: 225
Ion Ratio Lower Upper
88 100
43 528788.4 15.3 22.9#
58 2431.6 47.6 71.4#





#50

Toluene-d8

Concen: 48.857 ug/l

RT: 10.572 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VN076989.D

Acq: 14 Mar 2023 17:58

Instrument :

MSVOA_N

ClientSampleId :

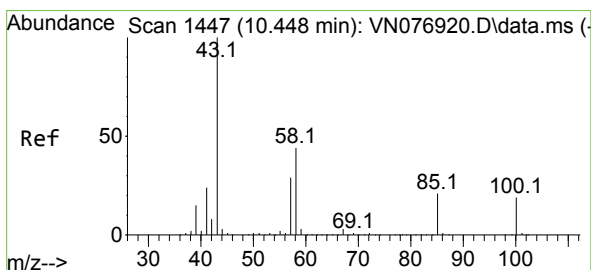
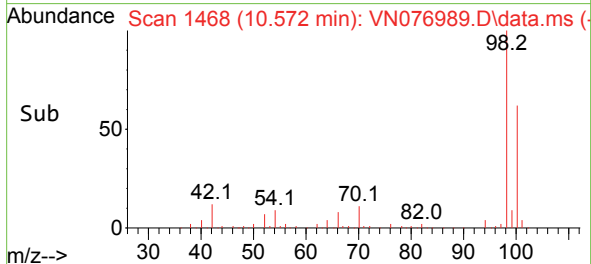
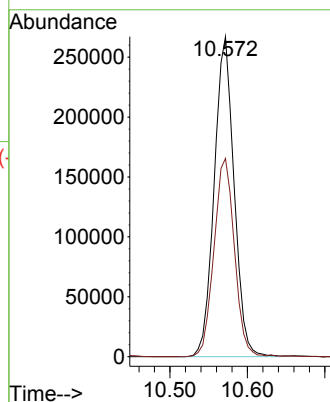
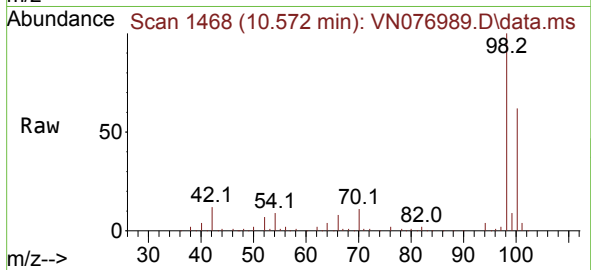
030923-1

Tgt Ion: 98 Resp: 476836

Ion Ratio Lower Upper

98 100

100 63.9 52.8 79.2



#51

4-Methyl-2-Pentanone

Concen: 1.389 ug/l

RT: 10.448 min Scan# 1447

Delta R.T. 0.000 min

Lab File: VN076989.D

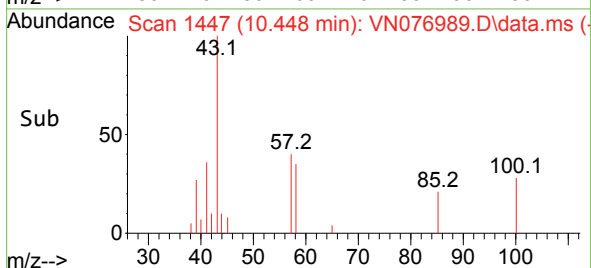
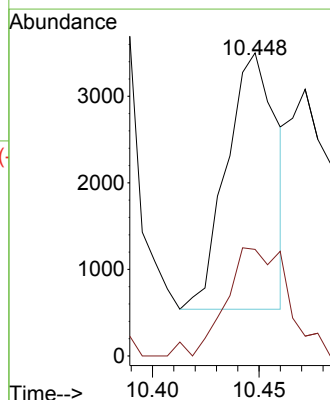
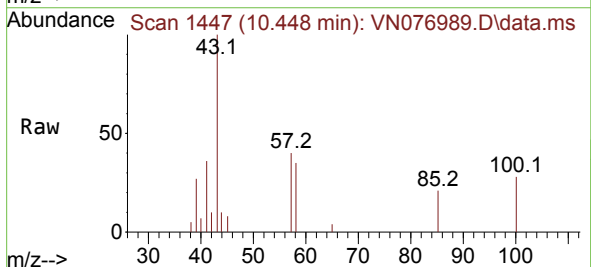
Acq: 14 Mar 2023 17:58

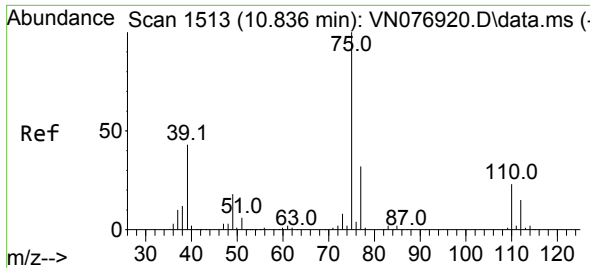
Tgt Ion: 43 Resp: 4824

Ion Ratio Lower Upper

43 100

58 52.5 37.4 56.0

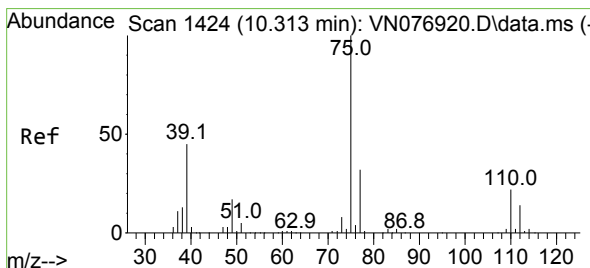
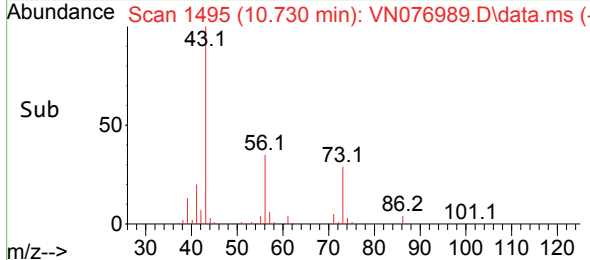
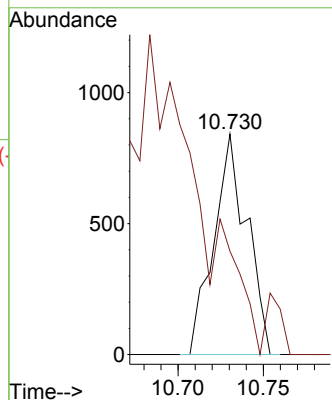
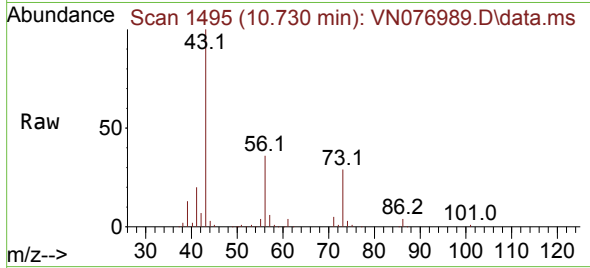




#53
 t-1,3-Dichloropropene
 Concen: 0.260 ug/l
 RT: 10.730 min Scan# 1495
 Delta R.T. -0.106 min
 Lab File: VN076989.D
 Acq: 14 Mar 2023 17:58

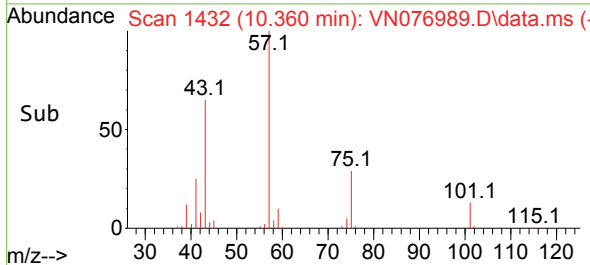
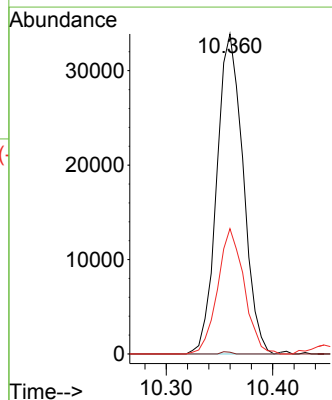
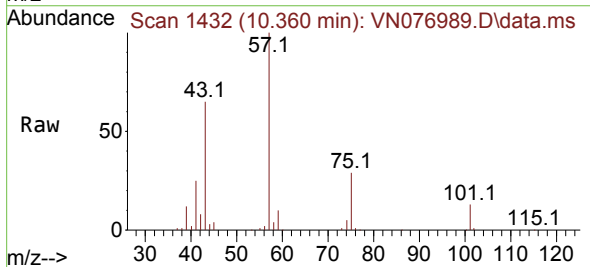
Instrument :
 MSVOA_N
 ClientSampleId :
 030923-1

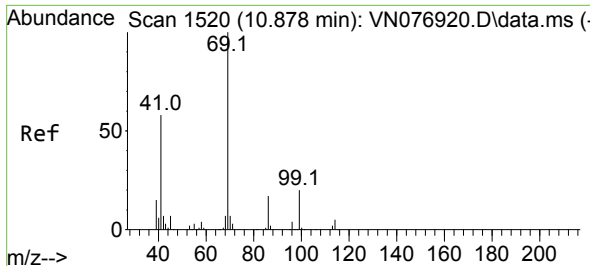
Tgt Ion: 75 Resp: 1141
 Ion Ratio Lower Upper
 75 100
 77 26.2 25.0 37.6



#54
 cis-1,3-Dichloropropene
 Concen: 12.066 ug/l
 RT: 10.360 min Scan# 1432
 Delta R.T. 0.047 min
 Lab File: VN076989.D
 Acq: 14 Mar 2023 17:58

Tgt Ion: 75 Resp: 58140
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.7 38.5#
 39 39.2 29.7 44.5

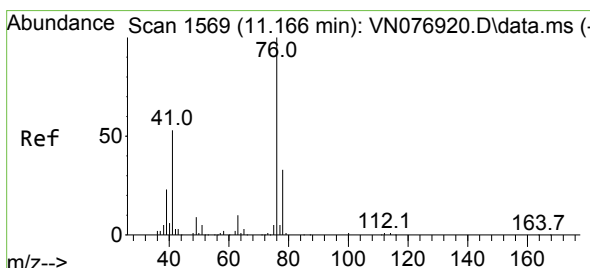
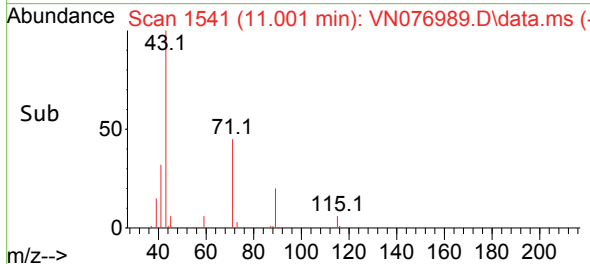
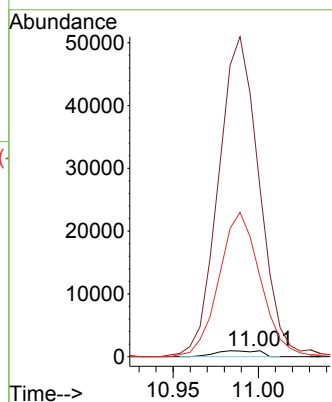
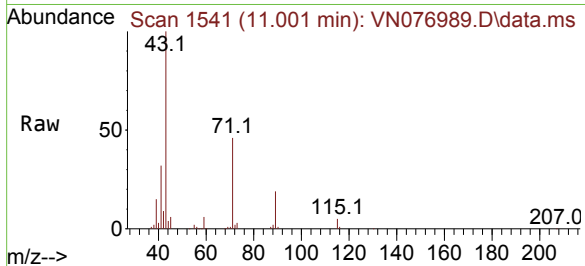




#56
Ethyl methacrylate
Concen: 0.386 ug/l
RT: 11.001 min Scan# 1541
Delta R.T. 0.123 min
Lab File: VN076989.D
Acq: 14 Mar 2023 17:58

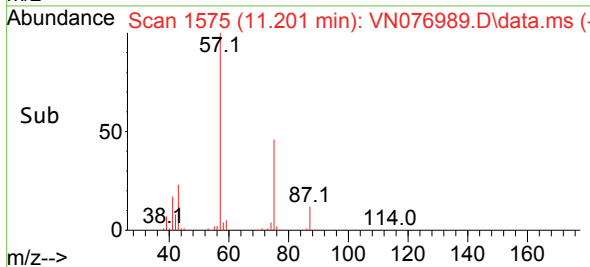
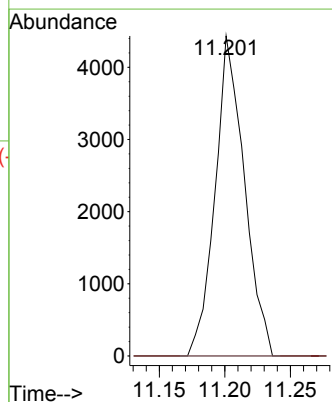
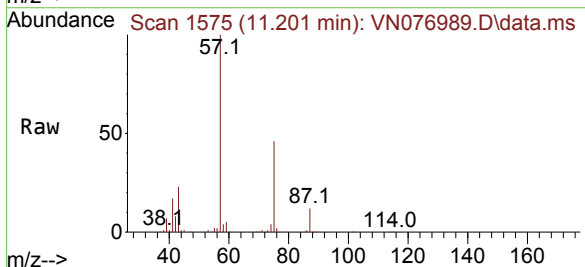
Instrument :
MSVOA_N
ClientSampleId :
030923-1

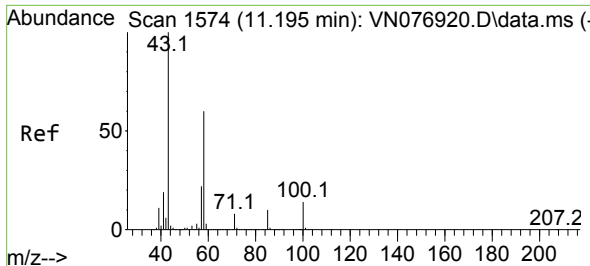
Tgt Ion: 69 Resp: 1694
Ion Ratio Lower Upper
69 100
41 5028.4 38.0 57.0#
39 2304.7 22.4 33.6#



#57
1,3-Dichloropropane
Concen: 1.348 ug/l
RT: 11.201 min Scan# 1575
Delta R.T. 0.035 min
Lab File: VN076989.D
Acq: 14 Mar 2023 17:58

Tgt Ion: 76 Resp: 6873
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

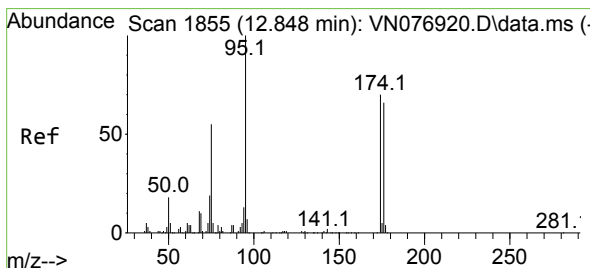
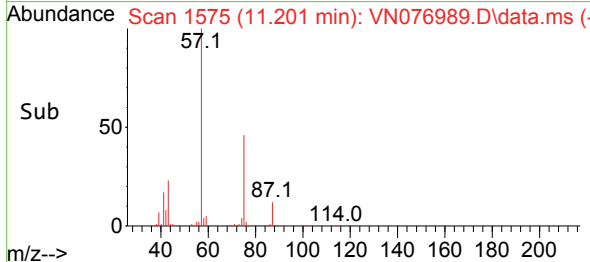
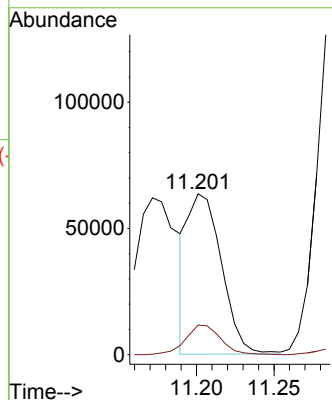
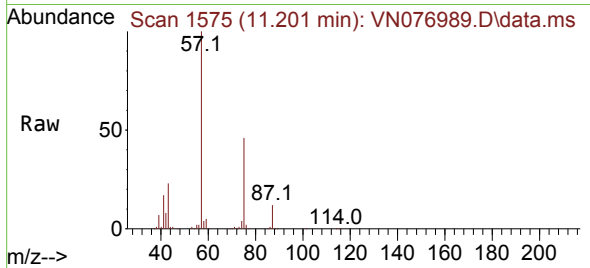




#59
2-Hexanone
Concen: 38.367 ug/l
RT: 11.201 min Scan# 111
Delta R.T. 0.006 min
Lab File: VN076989.D
Acq: 14 Mar 2023 17:58

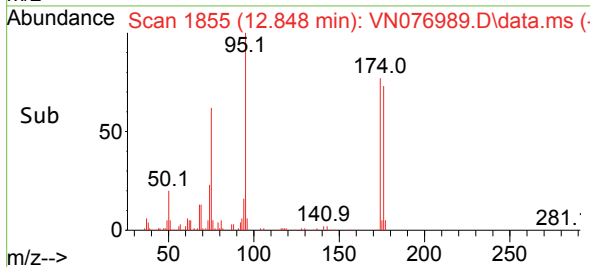
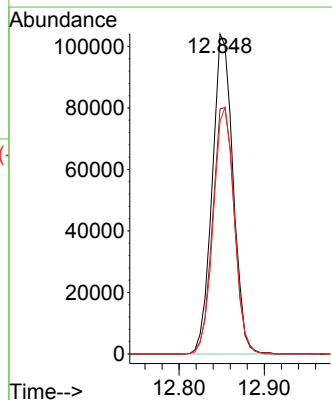
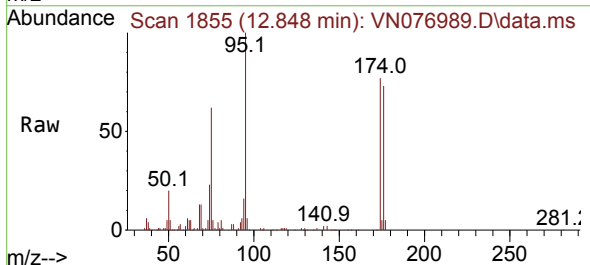
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MSVOA_N
ClientSampleId :
030923-1

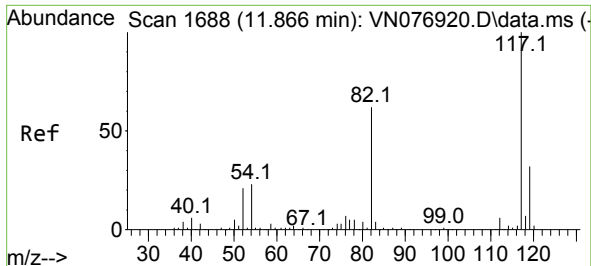
Tgt Ion: 43 Resp: 97164
Ion Ratio Lower Upper
43 100
58 19.1 32.6 98.0#



#62
4-Bromofluorobenzene
Concen: 49.428 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. -0.000 min
Lab File: VN076989.D
Acq: 14 Mar 2023 17:58

Tgt Ion: 95 Resp: 176448
Ion Ratio Lower Upper
95 100
174 80.2 0.0 162.4
176 78.0 0.0 157.4

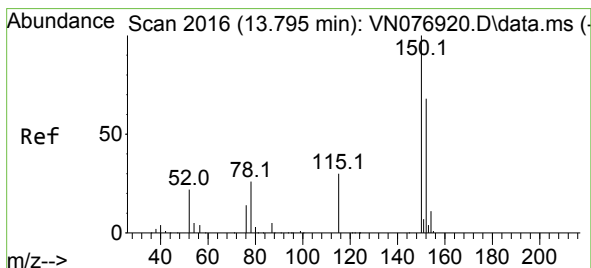
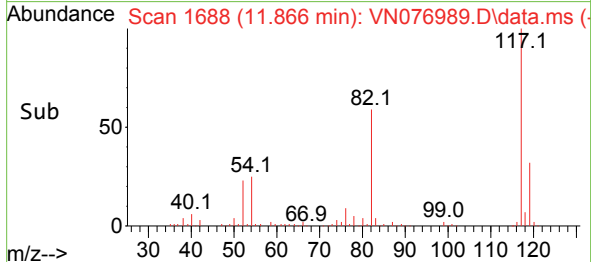
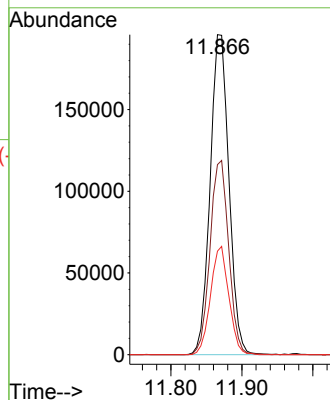
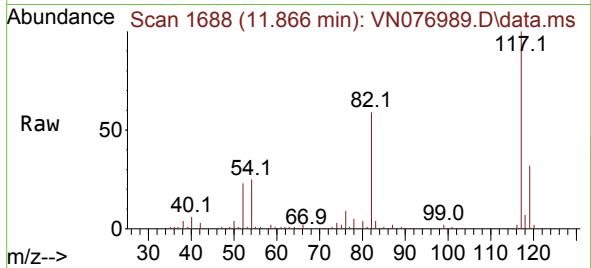




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN076989.D
Acq: 14 Mar 2023 17:58

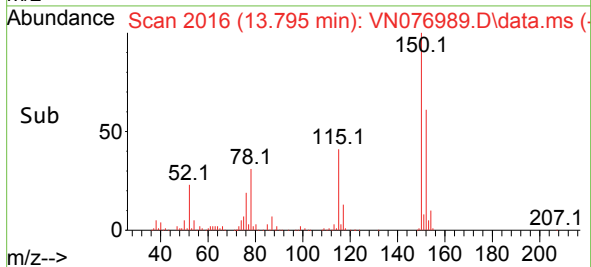
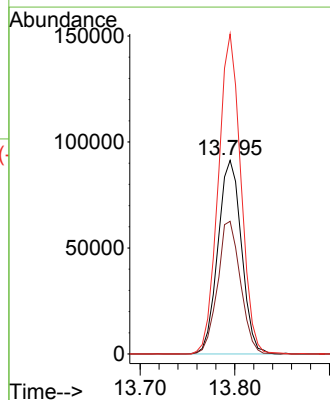
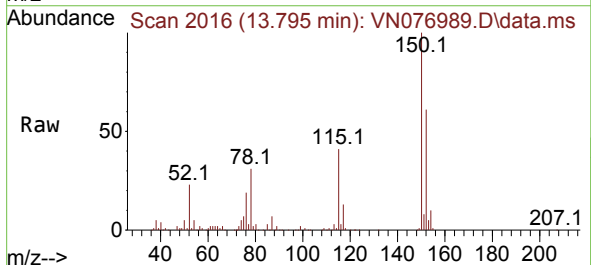
Instrument :
MSVOA_N
ClientSampleId :
030923-1

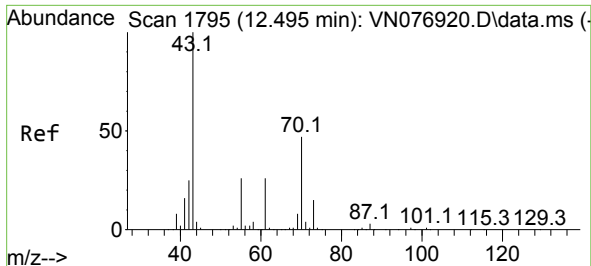
Tgt Ion:117 Resp: 359781
Ion Ratio Lower Upper
117 100
82 59.4 43.5 65.3
119 32.3 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN076989.D
Acq: 14 Mar 2023 17:58

Tgt Ion:152 Resp: 157835
Ion Ratio Lower Upper
152 100
115 66.6 30.3 90.9
150 158.5 0.0 353.6

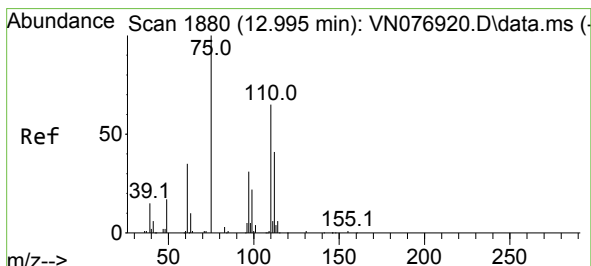
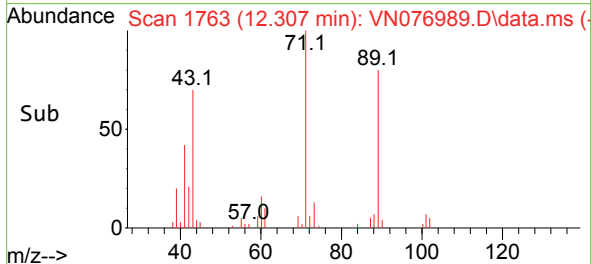
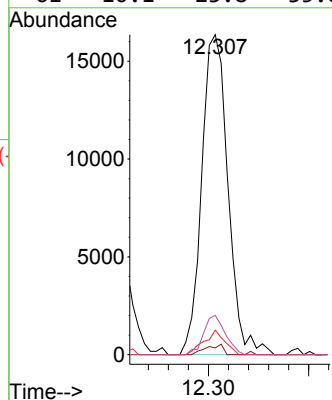
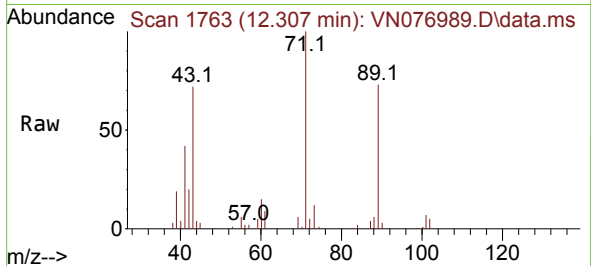




#74
N-ethyl acetate
Concen: 6.396 ug/l
RT: 12.307 min Scan# 11
Delta R.T. -0.188 min
Lab File: VN076989.D
Acq: 14 Mar 2023 17:58

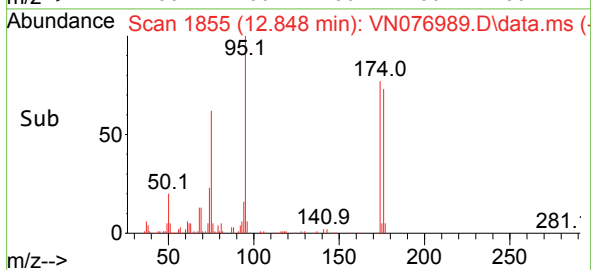
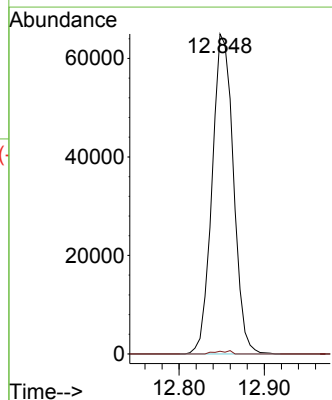
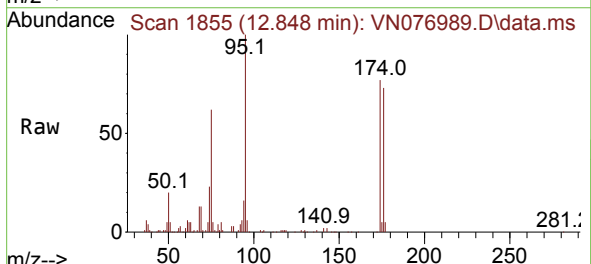
Instrument :
MSVOA_N
ClientSampleId :
030923-1

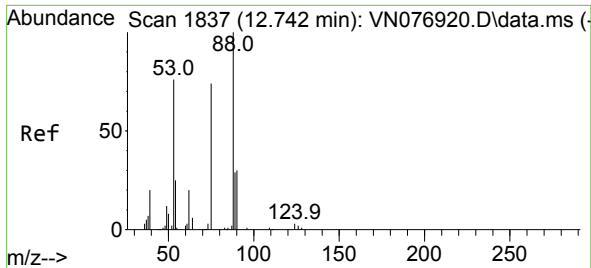
Tgt Ion: 43	Resp: 29785
Ion Ratio	Lower Upper
43 100	
70 2.1	46.8 70.2#
55 6.0	23.4 35.2#
61 10.1	23.8 35.8#



#76
1,2,3-Trichloropropane
Concen: 29.523 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. -0.147 min
Lab File: VN076989.D
Acq: 14 Mar 2023 17:58

Tgt Ion: 75	Resp: 112974
Ion Ratio	Lower Upper
75 100	
77 0.7	93.8 281.4#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 96.438 ug/l
 RT: 12.848 min Scan# 11
 Delta R.T. 0.106 min
 Lab File: VN076989.D
 Acq: 14 Mar 2023 17:58

Instrument :
 MSVOA_N
 ClientSampleId :
 030923-1

Tgt Ion: 75 Resp: 112974
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.0#
 89 0.0 39.5 59.3#

