

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042423\
 Data File : VN077453.D
 Acq On : 25 Apr 2023 07:17
 Operator : JC\MD
 Sample : PB152304ZHE#04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB152304ZHE#04

Quant Time: Apr 25 08:43:11 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N042423W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 25 02:50:59 2023
 Response via : Initial Calibration

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

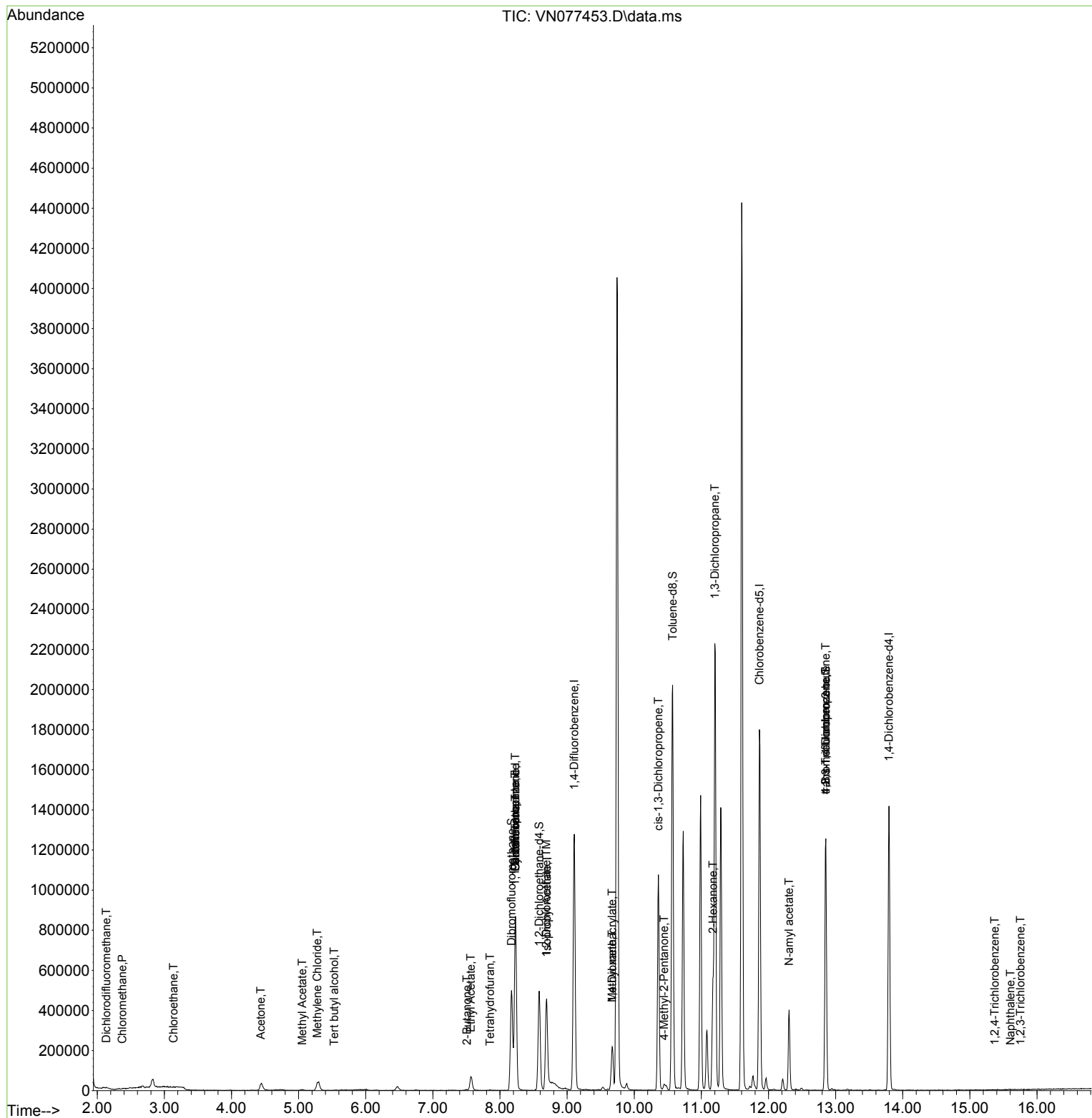
Internal Standards						
1) Pentafluorobenzene	8.231	168	619379	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	1163706	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	1086748	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	378434	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	404592	50.060	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.120%			
35) Dibromofluoromethane	8.172	113	358295	51.226	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.460%			
50) Toluene-d8	10.572	98	1459679	54.452	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 108.900%			
62) 4-Bromofluorobenzene	12.854	95	454267	51.795	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 103.600%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.137	85	170	0.331	ug/l #	43
3) Chloromethane	2.372	50	1450	0.234	ug/l #	70
6) Chloroethane	3.137	64	1599	0.254	ug/l #	73
11) Tert butyl alcohol	5.531	59	944	0.728	ug/l #	72
16) Acetone	4.437	43	65173	25.347	ug/l	96
18) Methyl Acetate	5.054	43	8336	0.840	ug/l	90
20) Methylene Chloride	5.278	84	36596	4.488	ug/l	91
25) 2-Butanone	7.507	43	5555	1.523	ug/l #	85
29) Tetrahydrofuran	7.854	42	1053	0.461	ug/l #	69
31) Cyclohexane	8.231	56	15078	1.317	ug/l #	37
36) 1,1-Dichloropropene	8.225	75	53012	5.246	ug/l #	47
37) Ethyl Acetate	7.566	43	103643	13.498	ug/l	99
38) Carbon Tetrachloride	8.231	117	70583	6.331	ug/l #	16
42) 1,2-Dichloroethane	8.689	62	4190	0.396	ug/l #	73
43) Isopropyl Acetate	8.695	43	602214	45.334	ug/l #	81
48) Methyl methacrylate	9.672	41	10852	1.795	ug/l #	35
49) 1,4-Dioxane	9.672	88	193	1.272	ug/l #	1
51) 4-Methyl-2-Pentanone	10.442	43	18122	2.326	ug/l	95
54) cis-1,3-Dichloropropene	10.360	75	217311	17.421	ug/l #	63
57) 1,3-Dichloropropane	11.201	76	26562	2.056	ug/l #	43
59) 2-Hexanone	11.172	43	385443	68.056	ug/l #	19
74) N-amyl acetate	12.307	43	114473	11.011	ug/l #	46
76) 1,2,3-Trichloropropane	12.854	75	247944	28.175	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	247944	79.600	ug/l #	15
93) 1,2,4-Trichlorobenzene	15.371	180	169	0.859	ug/l #	46
95) Naphthalene	15.607	128	2005	1.339	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.754	180	141	0.529	ug/l #	82

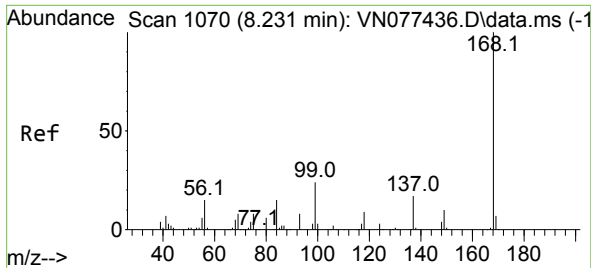
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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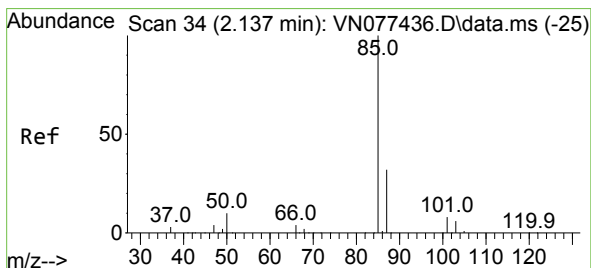
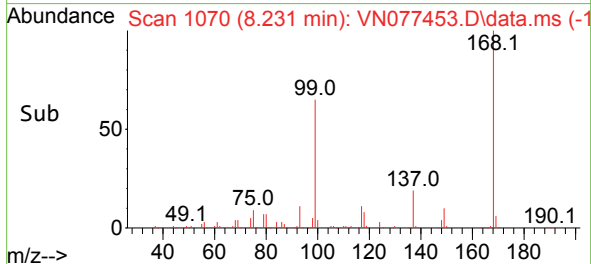
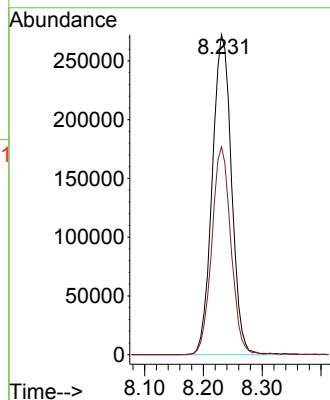
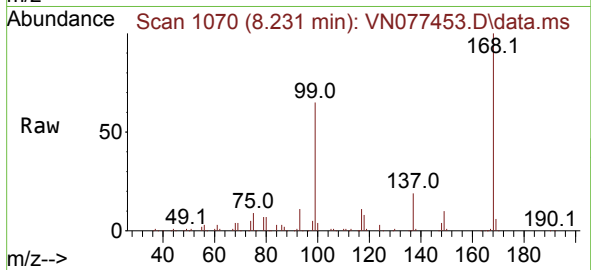




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VN077453.D
Acq: 25 Apr 2023 07:17

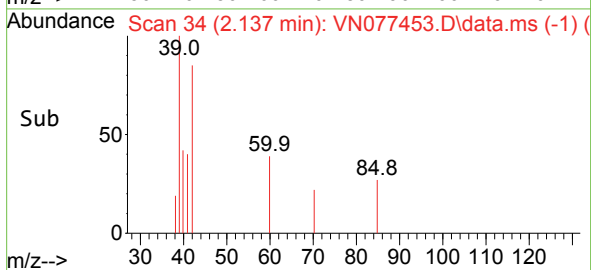
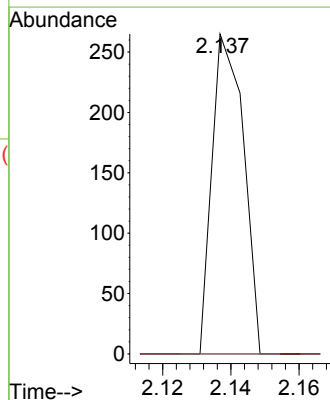
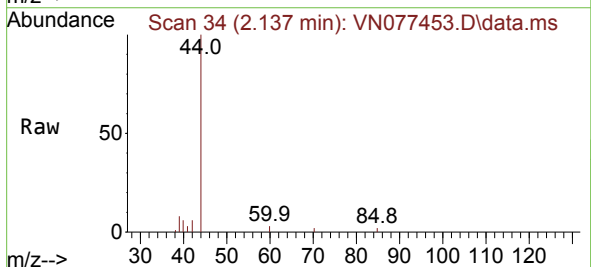
Instrument :
MSVOA_N
ClientSampleId :
PB152304ZHE#04

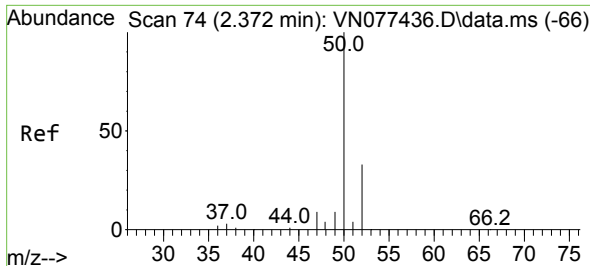
Tgt Ion:168 Resp: 619379
Ion Ratio Lower Upper
168 100
99 64.9 53.0 79.6



#2
Dichlorodifluoromethane
Concen: 0.331 ug/l
RT: 2.137 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN077453.D
Acq: 25 Apr 2023 07:17

Tgt Ion: 85 Resp: 170
Ion Ratio Lower Upper
85 100
87 0.0 15.8 47.4#

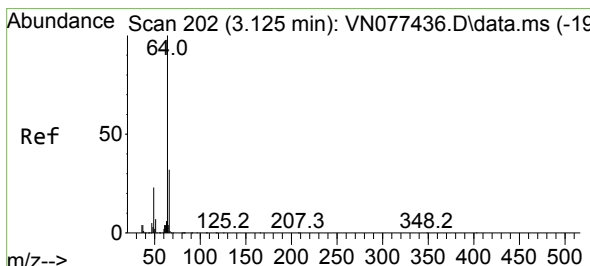
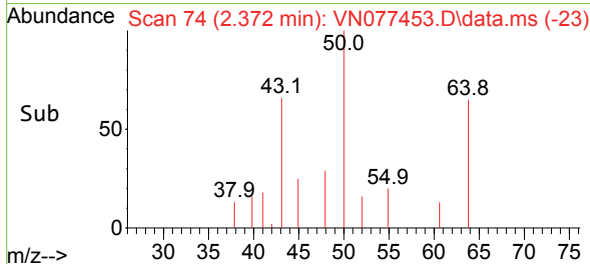
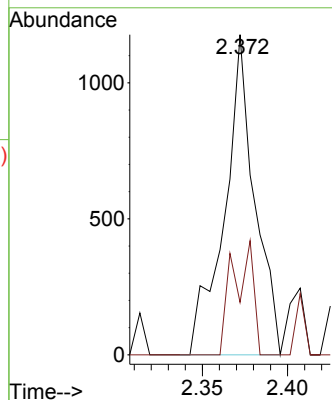
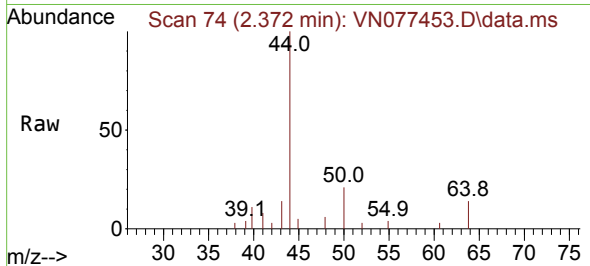




#3
Chloromethane
Concen: 0.234 ug/l
RT: 2.372 min Scan# 74
Delta R.T. -0.000 min
Lab File: VN077453.D
Acq: 25 Apr 2023 07:17

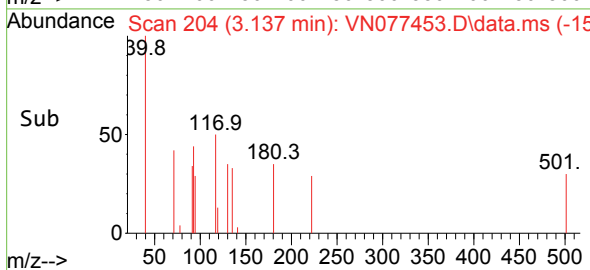
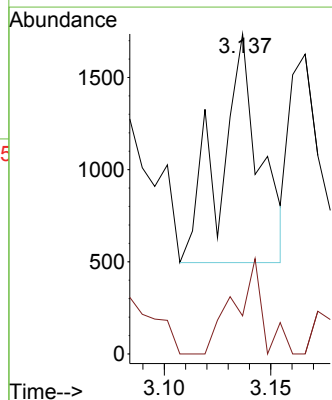
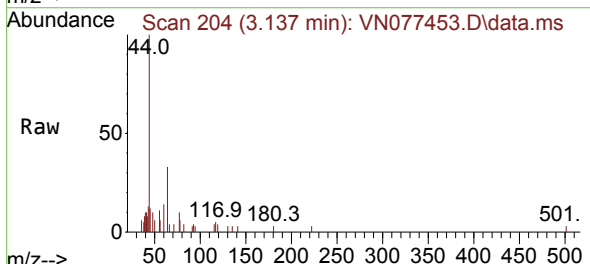
Instrument :
MSVOA_N
ClientSampleId :
PB152304ZHE#04

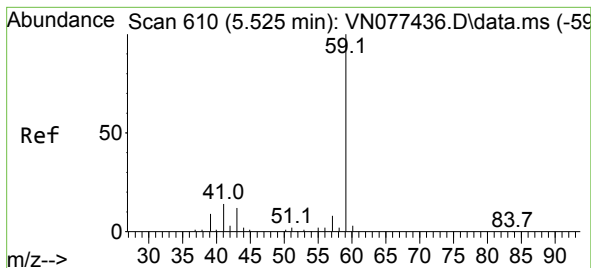
Tgt Ion: 50 Resp: 1450
Ion Ratio Lower Upper
50 100
52 16.4 26.5 39.7#



#6
Chloroethane
Concen: 0.254 ug/l
RT: 3.137 min Scan# 204
Delta R.T. 0.012 min
Lab File: VN077453.D
Acq: 25 Apr 2023 07:17

Tgt Ion: 64 Resp: 1599
Ion Ratio Lower Upper
64 100
66 16.7 25.4 38.2#





#11

Tert butyl alcohol

Concen: 0.728 ug/l

RT: 5.531 min Scan# 611

Delta R.T. 0.006 min

Lab File: VN077453.D

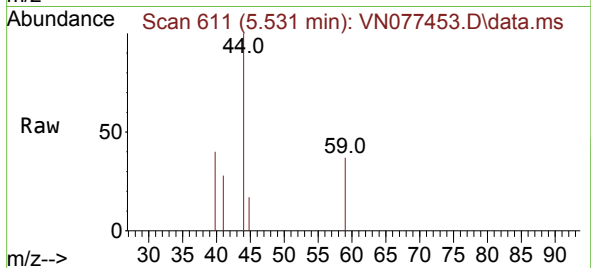
Acq: 25 Apr 2023 07:17

Instrument :

MSVOA_N

ClientSampleId :

PB152304ZHE#04

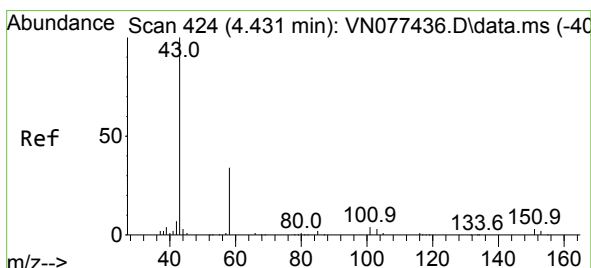
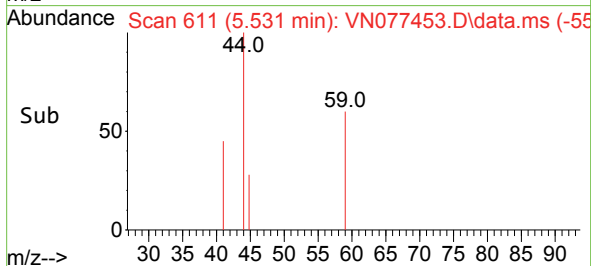
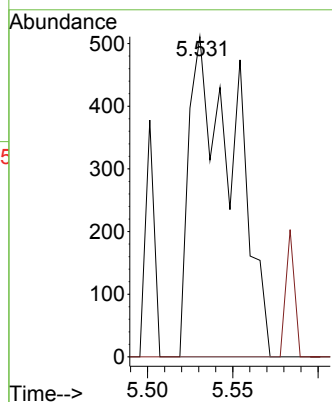


Tgt Ion: 59 Resp: 944

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#16

Acetone

Concen: 25.347 ug/l

RT: 4.437 min Scan# 425

Delta R.T. 0.006 min

Lab File: VN077453.D

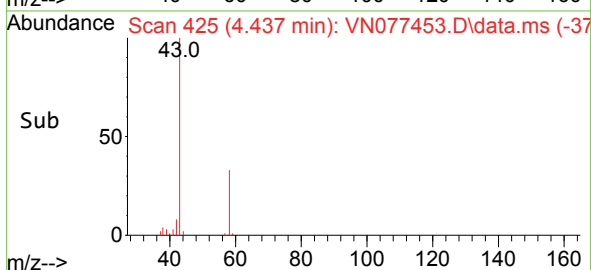
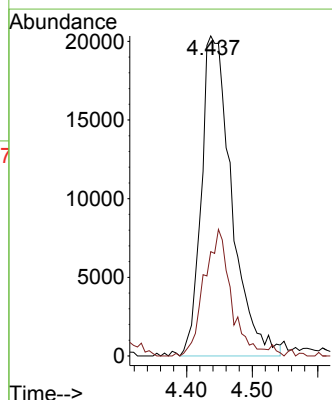
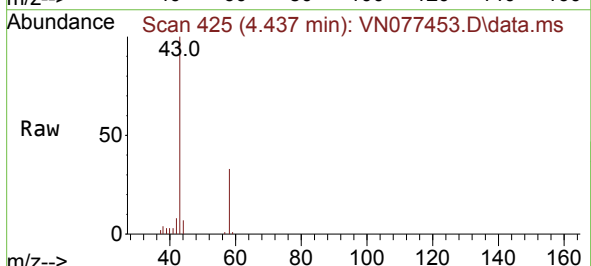
Acq: 25 Apr 2023 07:17

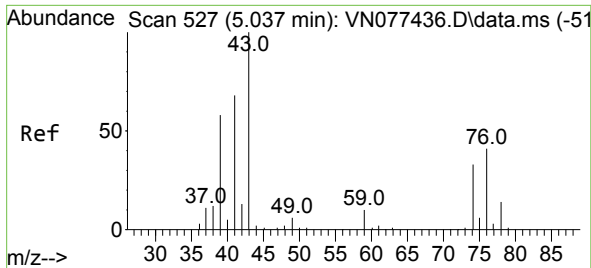
Tgt Ion: 43 Resp: 65173

Ion Ratio Lower Upper

43 100

58 32.6 28.0 42.0

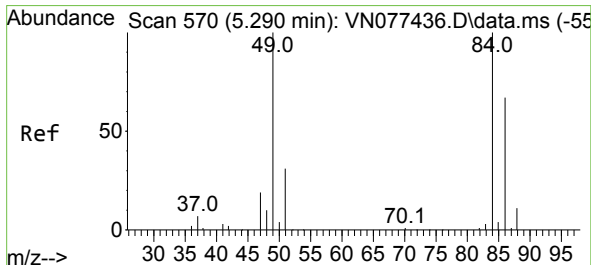
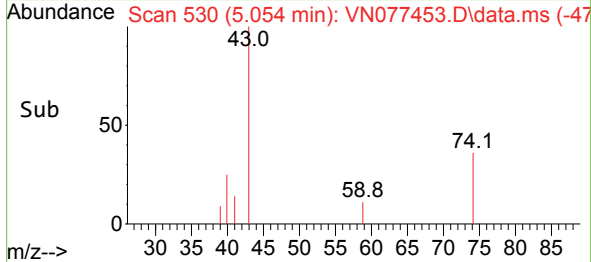
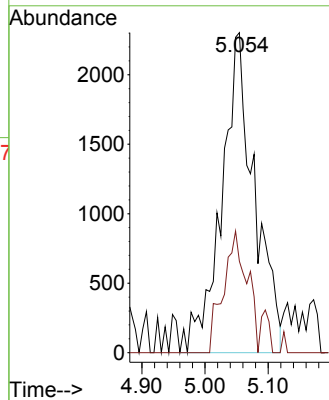
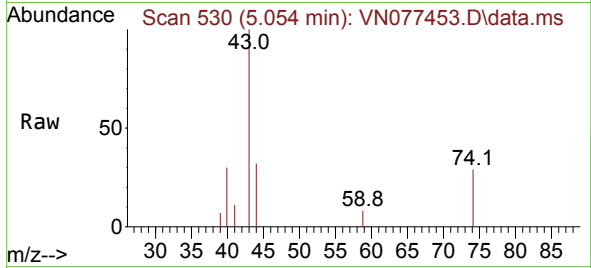




#18
Methyl Acetate
Concen: 0.840 ug/l
RT: 5.054 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN077453.D
Acq: 25 Apr 2023 07:17

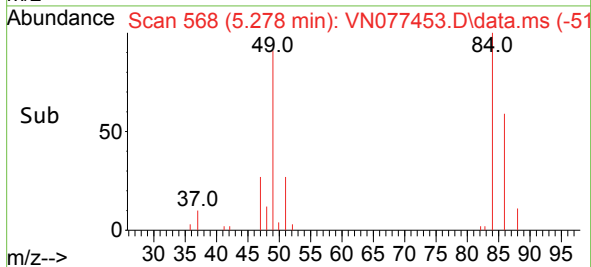
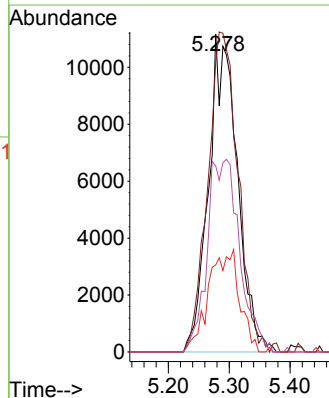
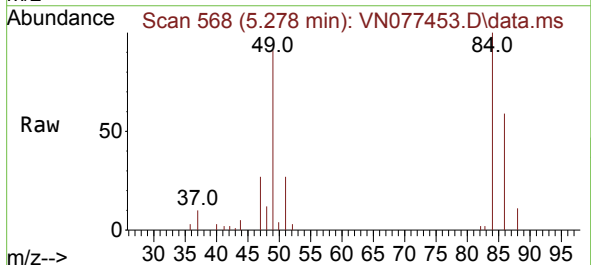
Instrument :
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PB152304ZHE#04

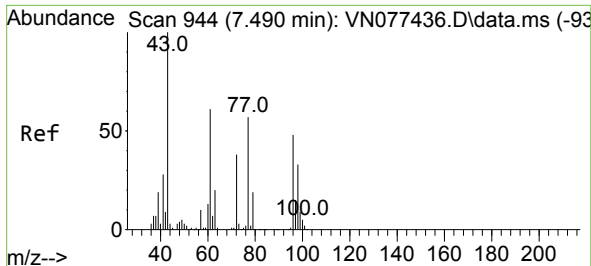
Tgt Ion: 43 Resp: 8336
Ion Ratio Lower Upper
43 100
74 27.4 26.2 39.4



#20
Methylene Chloride
Concen: 4.488 ug/l
RT: 5.278 min Scan# 568
Delta R.T. -0.012 min
Lab File: VN077453.D
Acq: 25 Apr 2023 07:17

Tgt Ion: 84 Resp: 36596
Ion Ratio Lower Upper
84 100
49 91.4 79.7 119.5
51 27.4 25.2 37.8
86 58.6 53.3 79.9

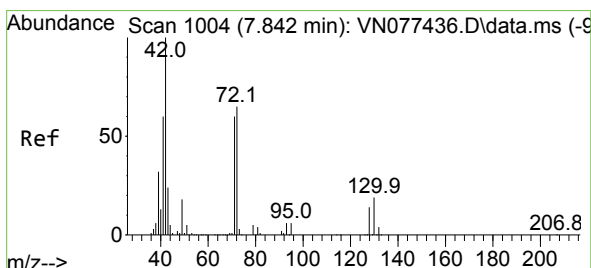
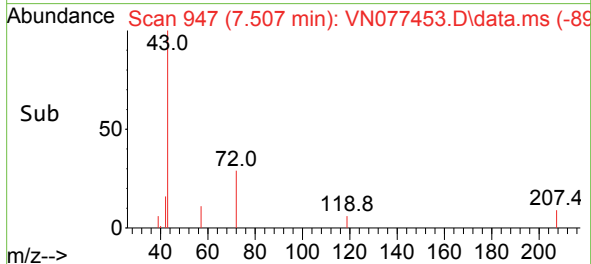
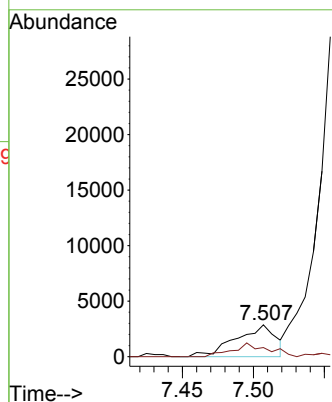
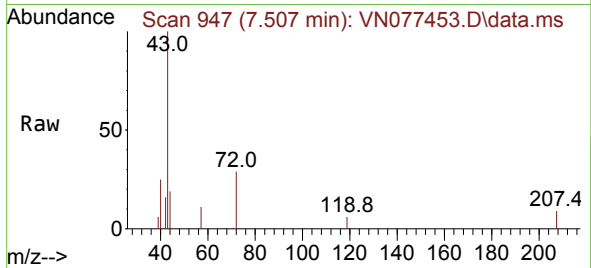




#25
2-Butanone
Concen: 1.523 ug/l
RT: 7.507 min Scan# 944
Delta R.T. 0.018 min
Lab File: VN077453.D
Acq: 25 Apr 2023 07:17

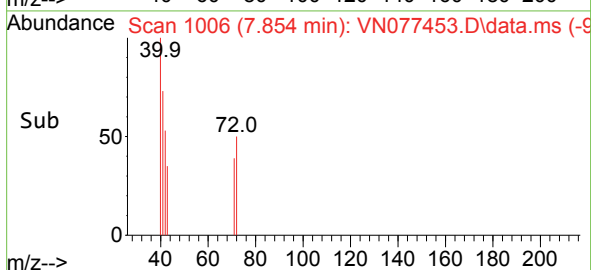
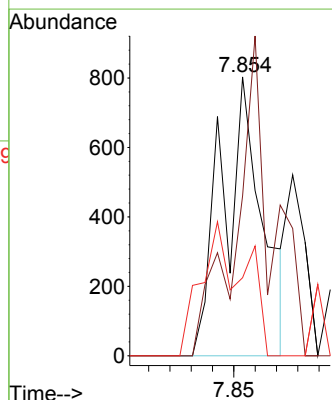
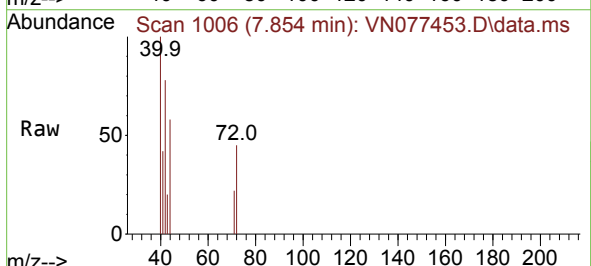
Instrument :
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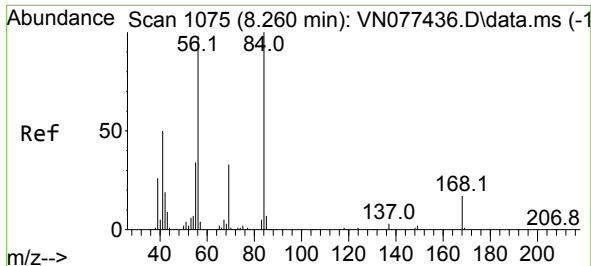
Tgt Ion: 43 Resp: 5555
Ion Ratio Lower Upper
43 100
72 28.8 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.461 ug/l
RT: 7.854 min Scan# 1006
Delta R.T. 0.012 min
Lab File: VN077453.D
Acq: 25 Apr 2023 07:17

Tgt Ion: 42 Resp: 1053
Ion Ratio Lower Upper
42 100
72 101.3 49.8 74.6#
71 51.3 47.4 71.2

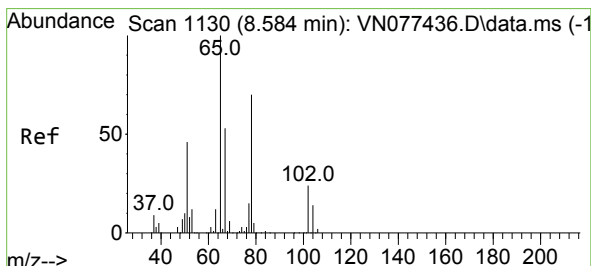
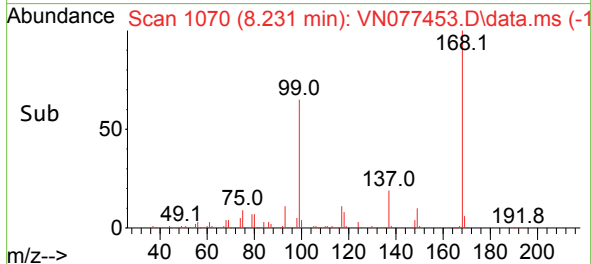
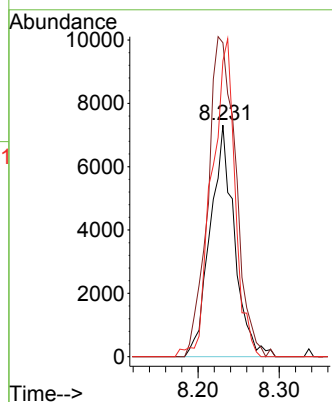
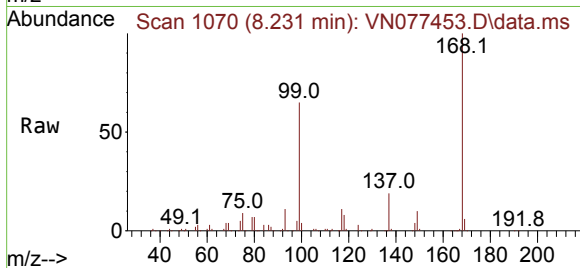




#31
Cyclohexane
Concen: 1.317 ug/l
RT: 8.231 min Scan# 1075
Delta R.T. -0.030 min
Lab File: VN077453.D
Acq: 25 Apr 2023 07:17

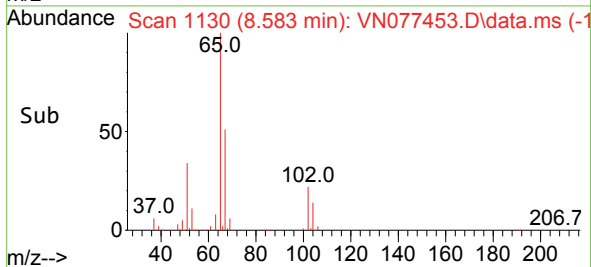
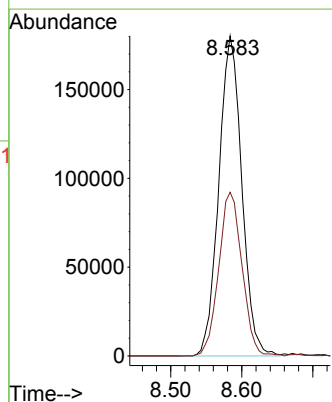
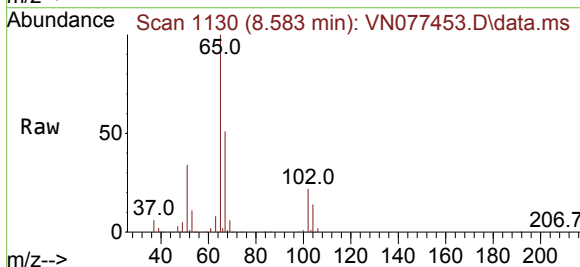
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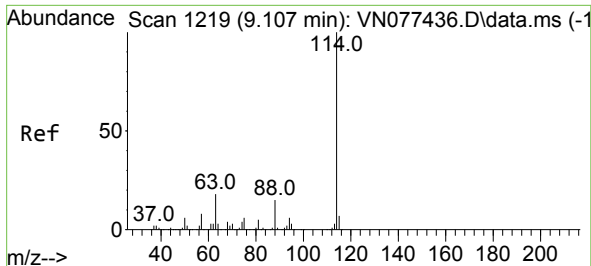
Tgt Ion: 56 Resp: 15078
Ion Ratio Lower Upper
56 100
69 135.6 26.8 40.2#
84 127.8 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 50.060 ug/l
RT: 8.583 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN077453.D
Acq: 25 Apr 2023 07:17

Tgt Ion: 65 Resp: 404592
Ion Ratio Lower Upper
65 100
67 51.8 0.0 106.6

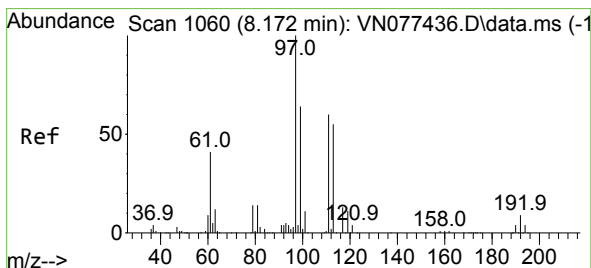
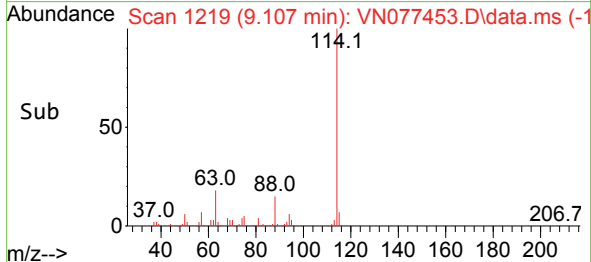
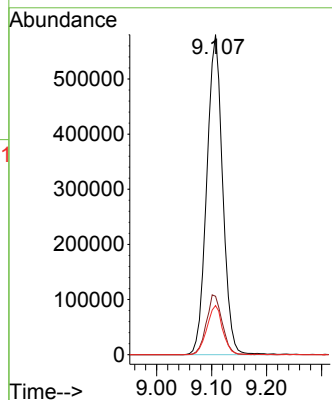
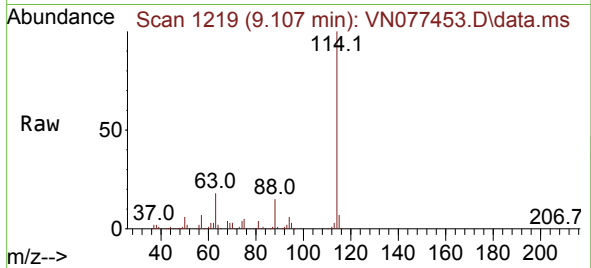




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.107 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN077453.D
Acq: 25 Apr 2023 07:17

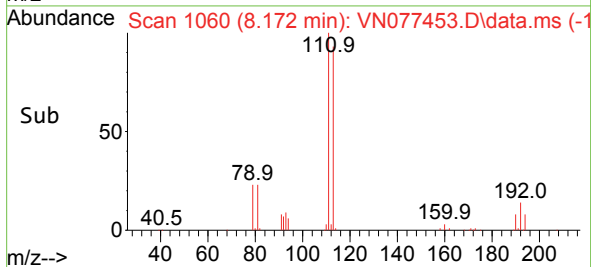
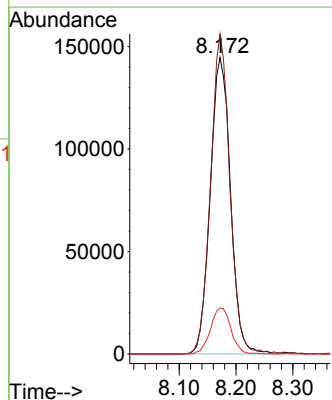
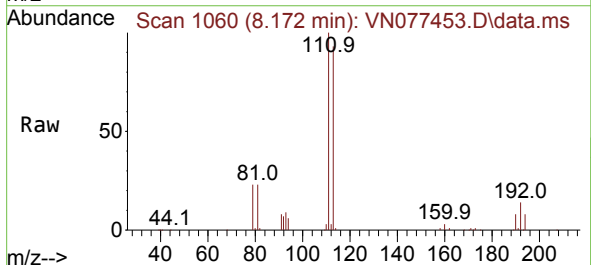
Instrument :
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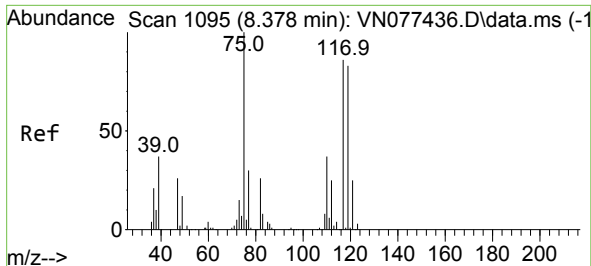
Tgt Ion:114 Resp: 1163706
Ion Ratio Lower Upper
114 100
63 18.3 0.0 36.4
88 15.3 0.0 30.6



#35
Dibromofluoromethane
Concen: 51.226 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. -0.000 min
Lab File: VN077453.D
Acq: 25 Apr 2023 07:17

Tgt Ion:113 Resp: 358295
Ion Ratio Lower Upper
113 100
111 103.0 82.6 123.8
192 15.7 12.7 19.1





#36

1,1-Dichloropropene

Concen: 5.246 ug/l

RT: 8.225 min Scan# 1069

Delta R.T. -0.153 min

Lab File: VN077453.D

Acq: 25 Apr 2023 07:17

Instrument :

MSVOA_N

ClientSampleId :

PB152304ZHE#04

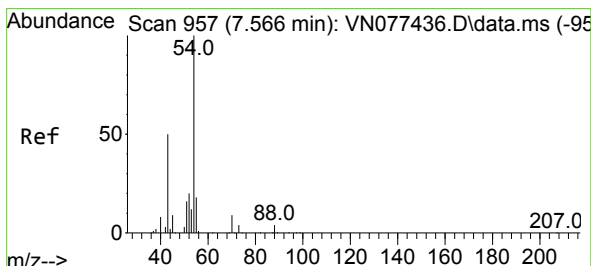
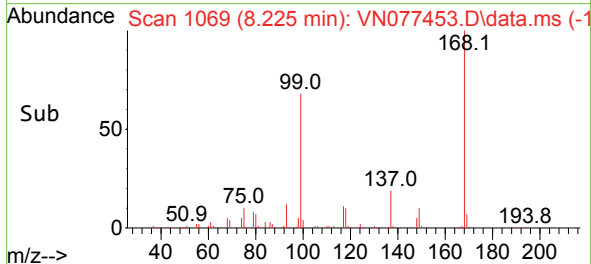
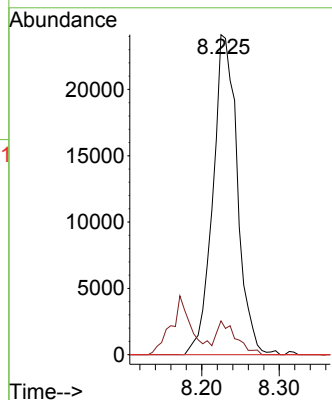
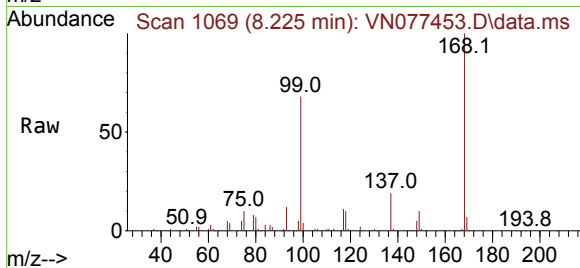
Tgt Ion: 75 Resp: 53012

Ion Ratio Lower Upper

75 100

110 8.3 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 13.498 ug/l

RT: 7.566 min Scan# 957

Delta R.T. -0.000 min

Lab File: VN077453.D

Acq: 25 Apr 2023 07:17

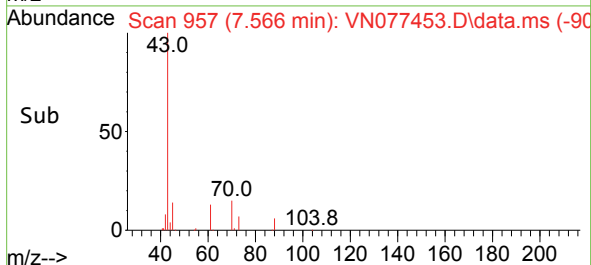
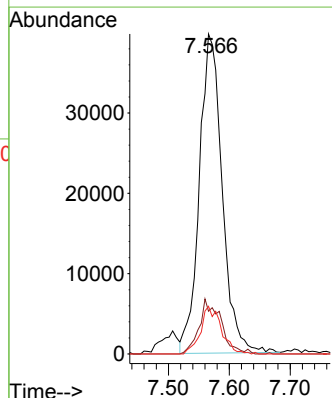
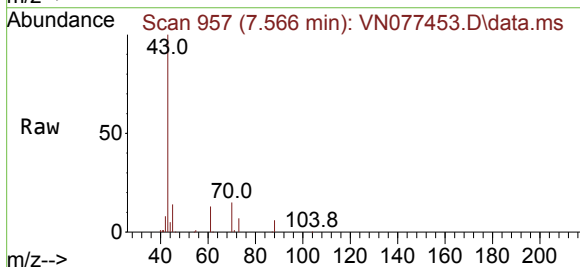
Tgt Ion: 43 Resp: 103643

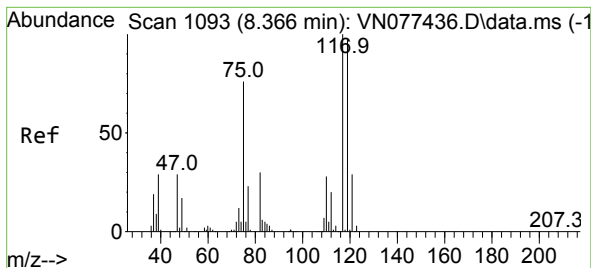
Ion Ratio Lower Upper

43 100

61 16.4 13.2 19.8

70 13.6 11.3 16.9





#38

Carbon Tetrachloride

Concen: 6.331 ug/l

RT: 8.231 min Scan# 1093

Delta R.T. -0.135 min

Lab File: VN077453.D

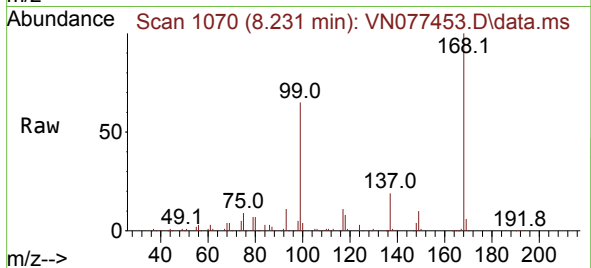
Acq: 25 Apr 2023 07:17

Instrument :

MSVOA_N

ClientSampleId :

PB152304ZHE#04



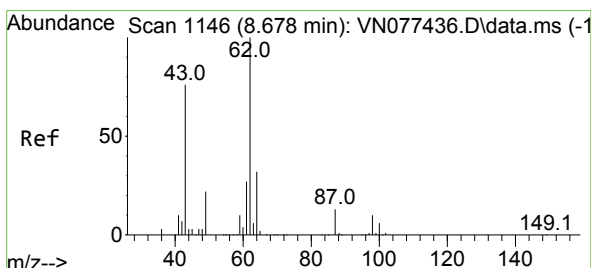
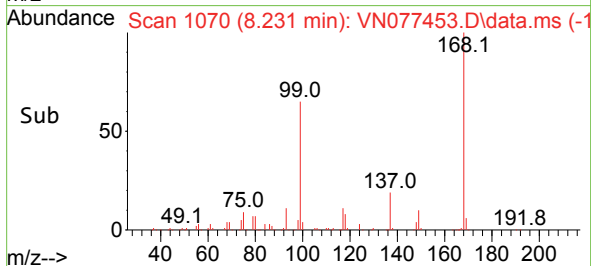
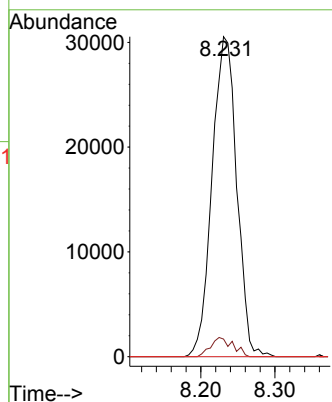
Tgt Ion:117 Resp: 70583

Ion Ratio Lower Upper

117 100

119 5.5 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 0.396 ug/l

RT: 8.689 min Scan# 1148

Delta R.T. 0.012 min

Lab File: VN077453.D

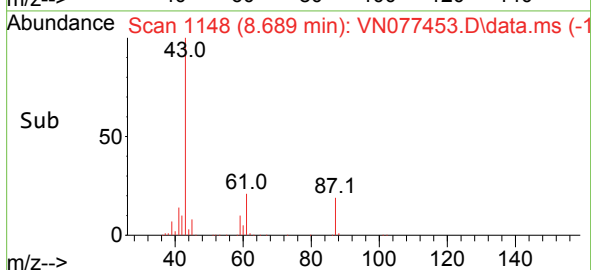
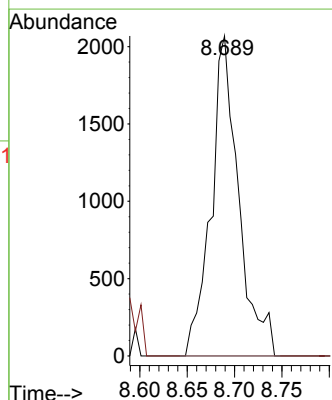
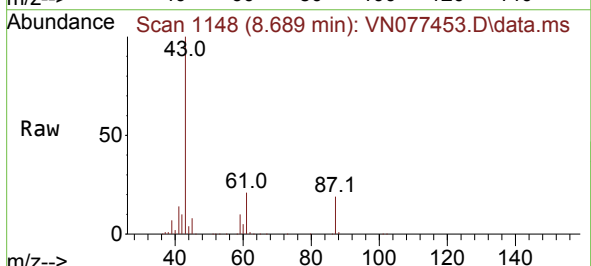
Acq: 25 Apr 2023 07:17

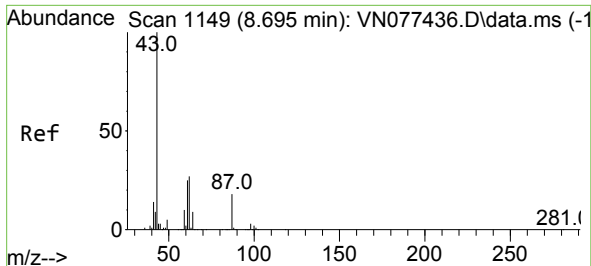
Tgt Ion: 62 Resp: 4190

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8





#43

Isopropyl Acetate

Concen: 45.334 ug/l

RT: 8.695 min Scan# 1149

Delta R.T. -0.000 min

Lab File: VN077453.D

Acq: 25 Apr 2023 07:17

Instrument :

MSVOA_N

ClientSampleId :

PB152304ZHE#04

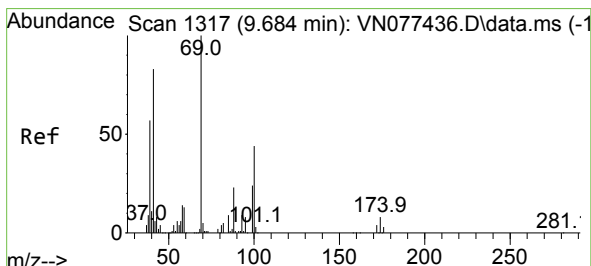
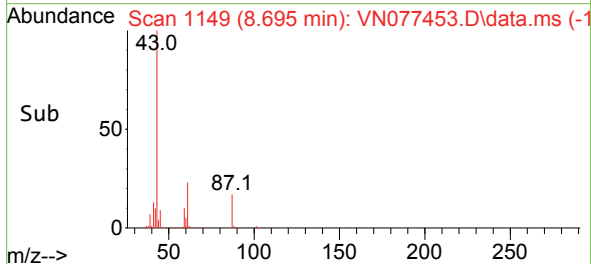
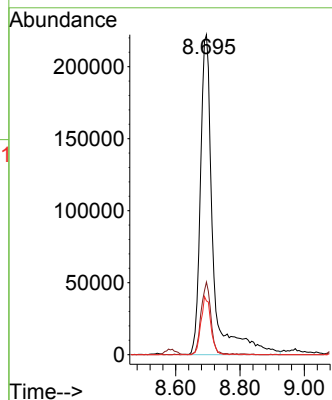
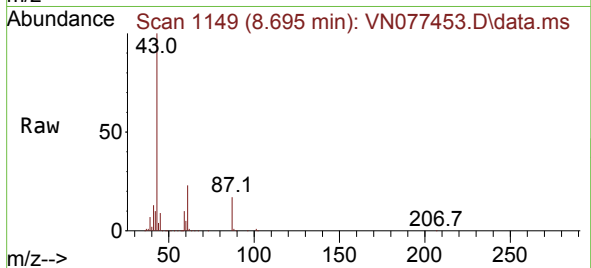
Tgt Ion: 43 Resp: 602214

Ion Ratio Lower Upper

43 100

61 17.7 24.7 37.1#

87 14.1 14.6 21.8#



#48

Methyl methacrylate

Concen: 1.795 ug/l

RT: 9.672 min Scan# 1315

Delta R.T. -0.012 min

Lab File: VN077453.D

Acq: 25 Apr 2023 07:17

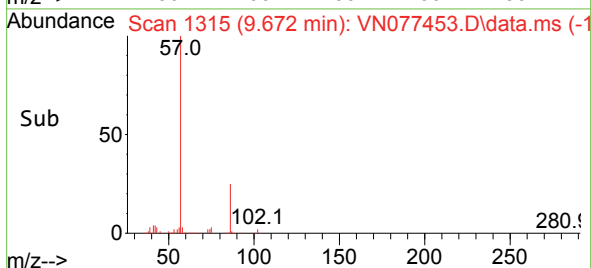
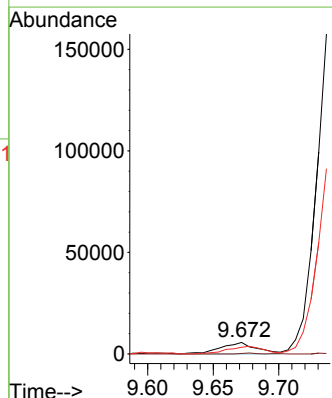
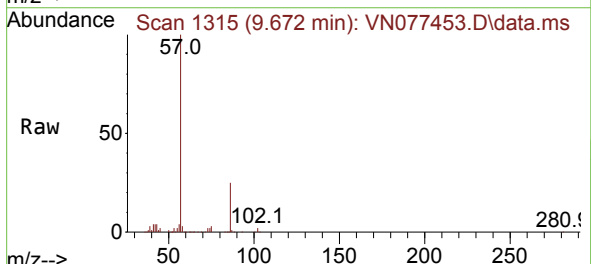
Tgt Ion: 41 Resp: 10852

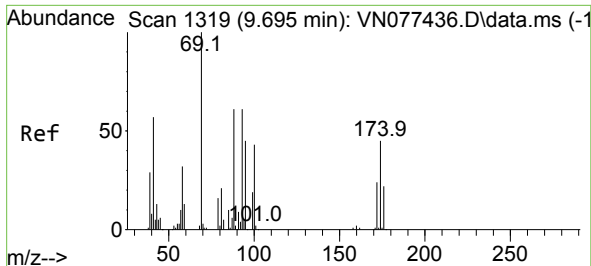
Ion Ratio Lower Upper

41 100

69 2.9 90.4 135.6#

39 66.4 54.6 81.8





#49

1,4-Dioxane

Concen: 1.272 ug/l

RT: 9.672 min Scan# 11

Delta R.T. -0.024 min

Lab File: VN077453.D

Acq: 25 Apr 2023 07:17

Instrument :

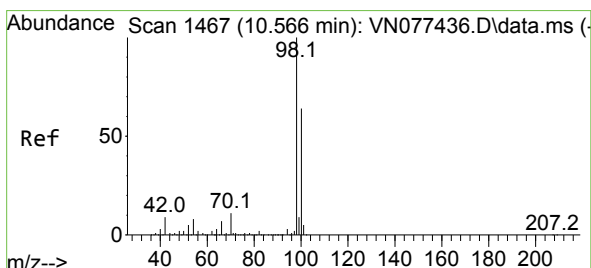
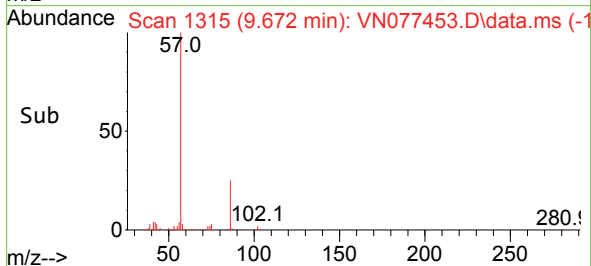
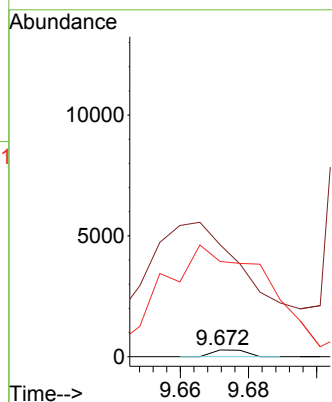
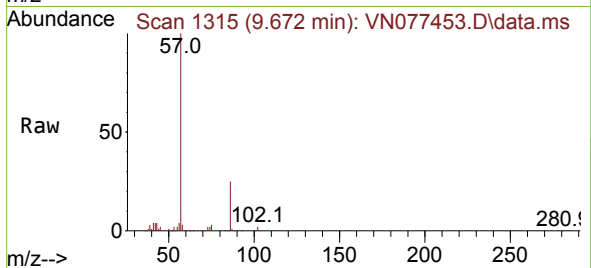
MSVOA_N

ClientSampleId :

PB152304ZHE#04

Tgt Ion: 88 Resp: 193

Ion	Ratio	Lower	Upper
88	100		
43	0.0	17.0	25.6#
58	5550.8	47.0	70.4#



#50

Toluene-d8

Concen: 54.452 ug/l

RT: 10.572 min Scan# 1468

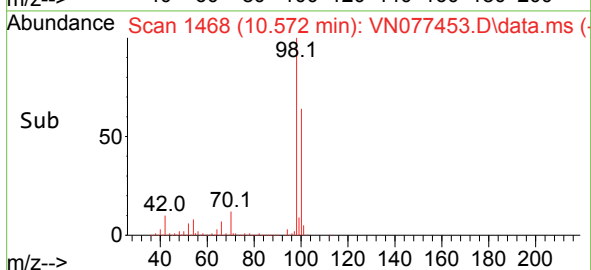
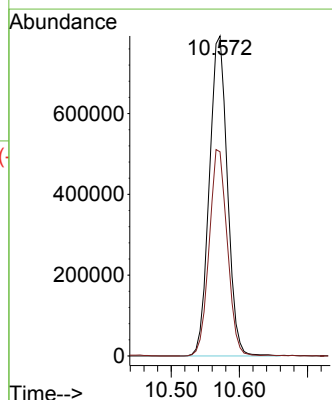
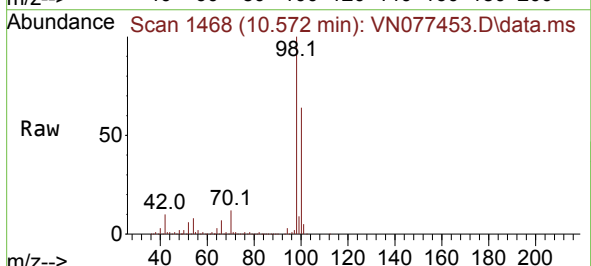
Delta R.T. 0.006 min

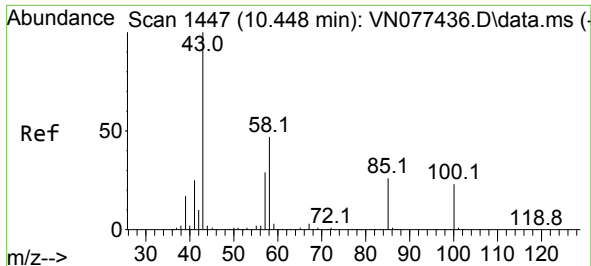
Lab File: VN077453.D

Acq: 25 Apr 2023 07:17

Tgt Ion: 98 Resp: 1459679

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.0	78.0

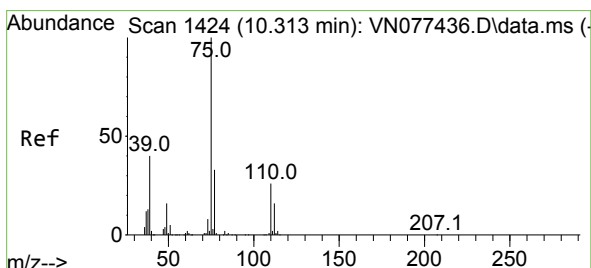
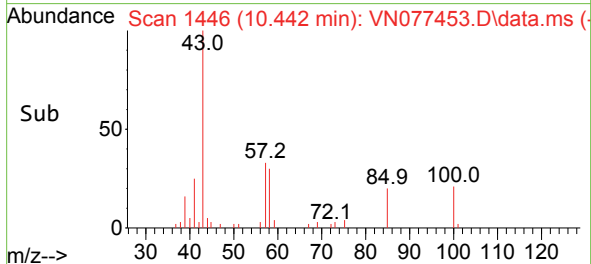
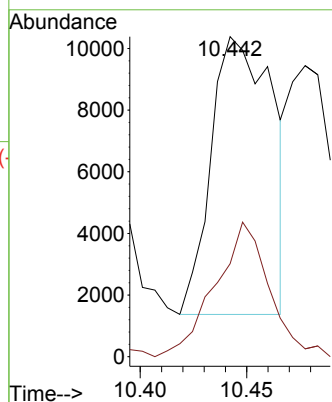
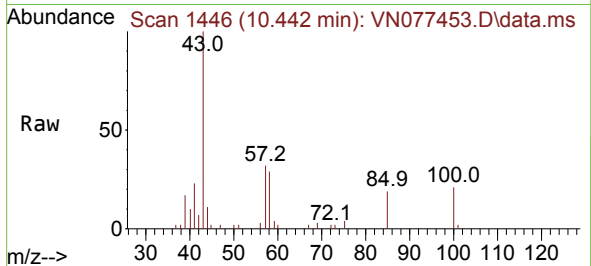




#51
4-Methyl-2-Pentanone
Concen: 2.326 ug/l
RT: 10.442 min Scan# 1446
Delta R.T. -0.006 min
Lab File: VN077453.D
Acq: 25 Apr 2023 07:17

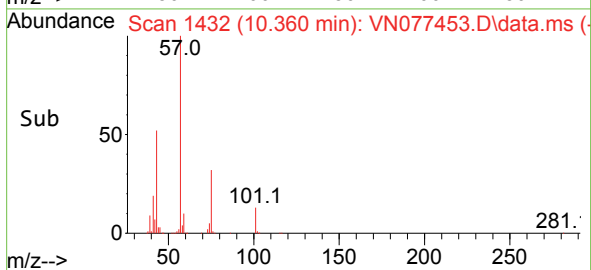
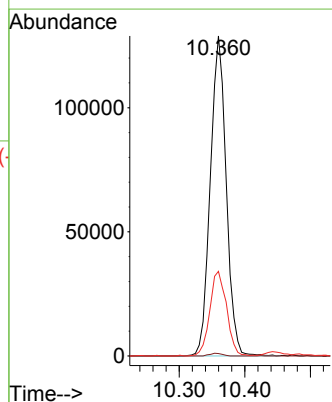
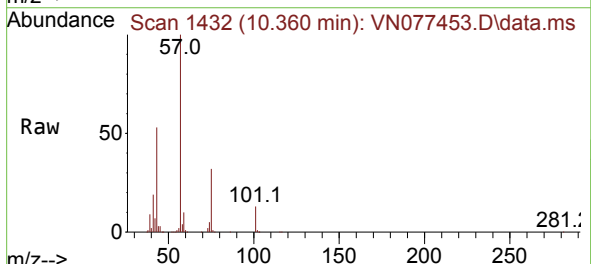
Instrument :
MSVOA_N
ClientSampleId :
PB152304ZHE#04

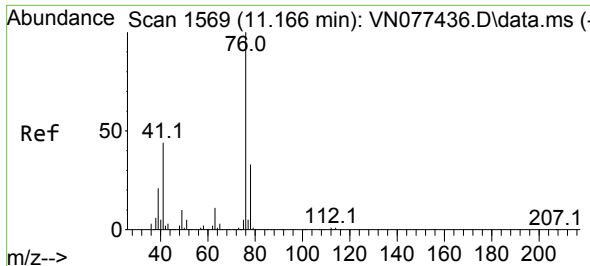
Tgt Ion: 43 Resp: 18122
Ion Ratio Lower Upper
43 100
58 42.4 36.6 54.8



#54
cis-1,3-Dichloropropene
Concen: 17.421 ug/l
RT: 10.360 min Scan# 1432
Delta R.T. 0.047 min
Lab File: VN077453.D
Acq: 25 Apr 2023 07:17

Tgt Ion: 75 Resp: 217311
Ion Ratio Lower Upper
75 100
77 0.8 26.1 39.1#
39 26.2 31.6 47.4#





#57

1,3-Dichloropropane

Concen: 2.056 ug/l

RT: 11.201 min Scan# 1575

Delta R.T. 0.035 min

Lab File: VN077453.D

Acq: 25 Apr 2023 07:17

Instrument :

MSVOA_N

ClientSampleId :

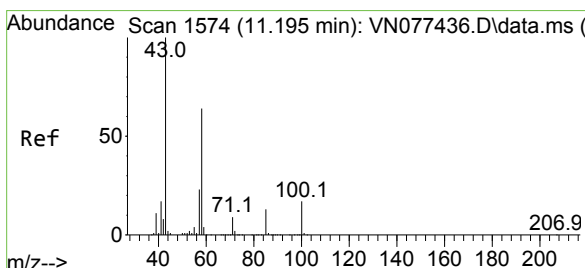
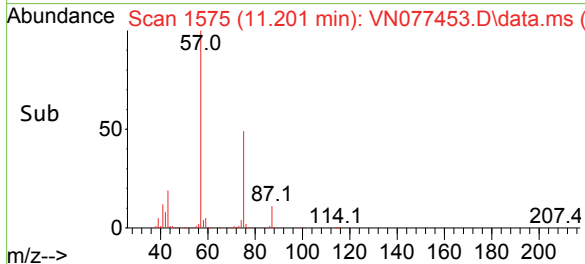
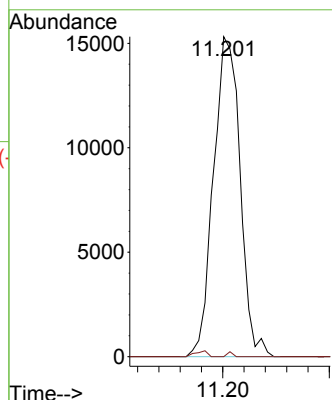
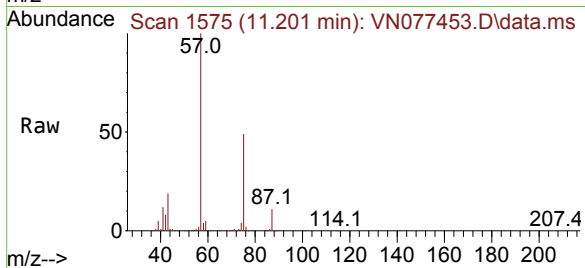
PB152304ZHE#04

Tgt Ion: 76 Resp: 26562

Ion Ratio Lower Upper

76 100

78 0.3 26.1 39.1#



#59

2-Hexanone

Concen: 68.056 ug/l

RT: 11.172 min Scan# 1570

Delta R.T. -0.024 min

Lab File: VN077453.D

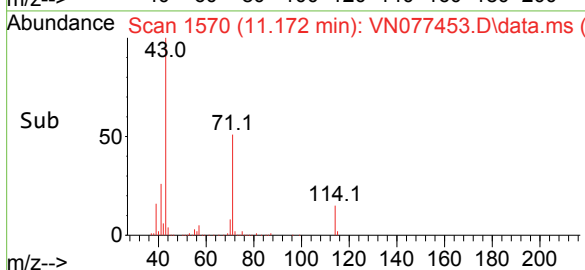
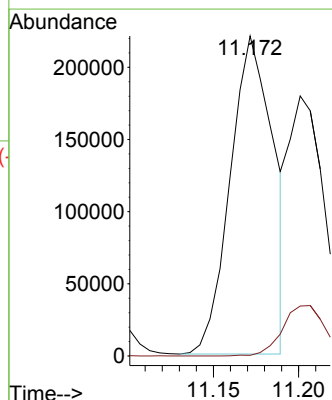
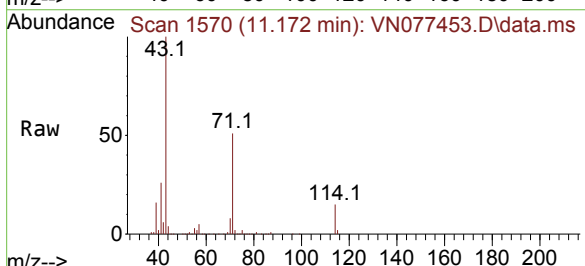
Acq: 25 Apr 2023 07:17

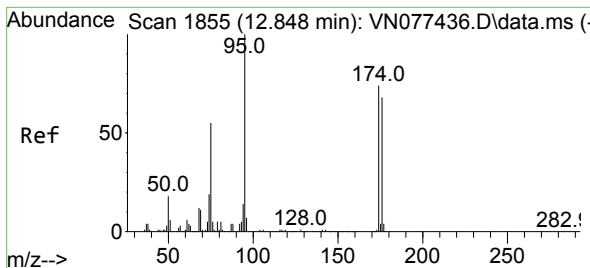
Tgt Ion: 43 Resp: 385443

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#





#62

4-Bromofluorobenzene

Concen: 51.795 ug/l

RT: 12.854 min Scan# 1855

Delta R.T. 0.006 min

Lab File: VN077453.D

Acq: 25 Apr 2023 07:17

Instrument :

MSVOA_N

ClientSampleId :

PB152304ZHE#04

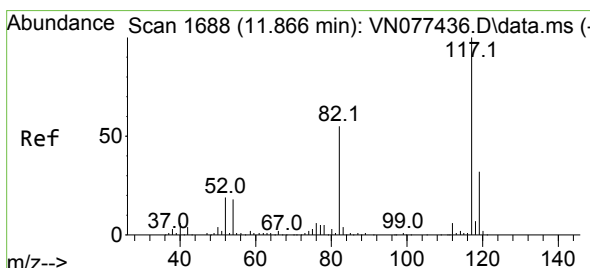
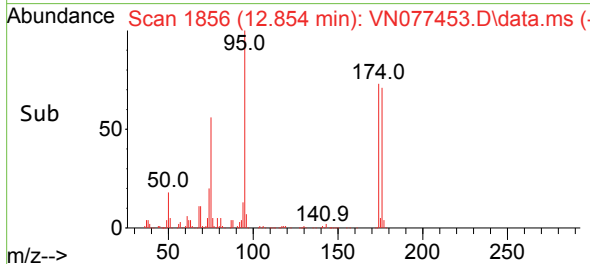
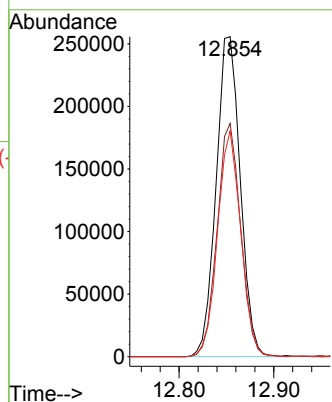
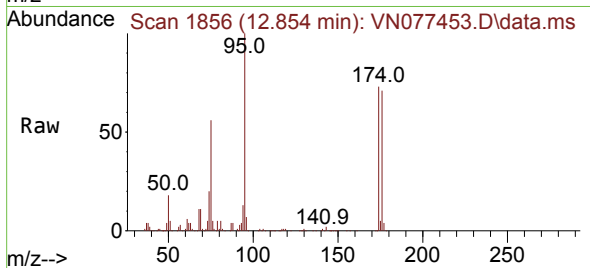
Tgt Ion: 95 Resp: 454267

Ion Ratio Lower Upper

95 100

174 71.1 0.0 143.8

176 67.6 0.0 135.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.866 min Scan# 1688

Delta R.T. -0.000 min

Lab File: VN077453.D

Acq: 25 Apr 2023 07:17

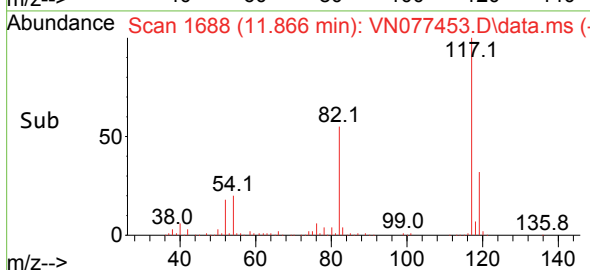
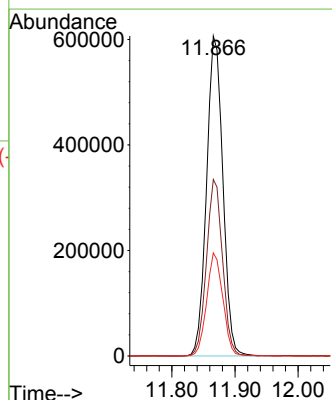
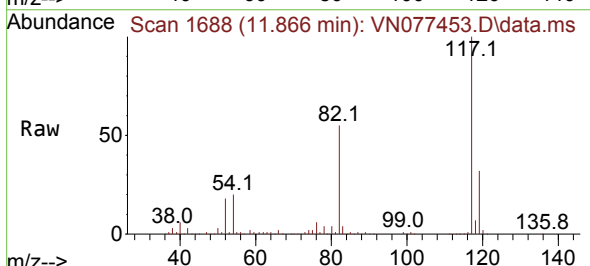
Tgt Ion: 117 Resp: 1086748

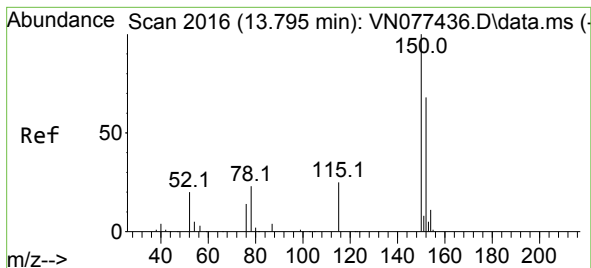
Ion Ratio Lower Upper

117 100

82 55.2 44.0 66.0

119 32.2 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.795 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN077453.D

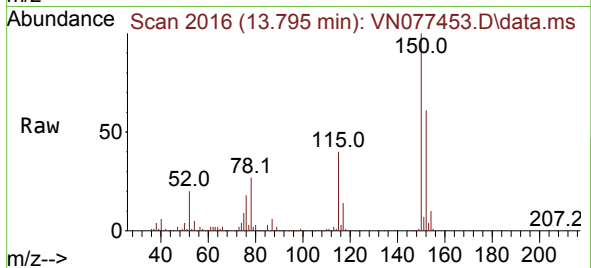
Acq: 25 Apr 2023 07:17

Instrument :

MSVOA_N

ClientSampleId :

PB152304ZHE#04



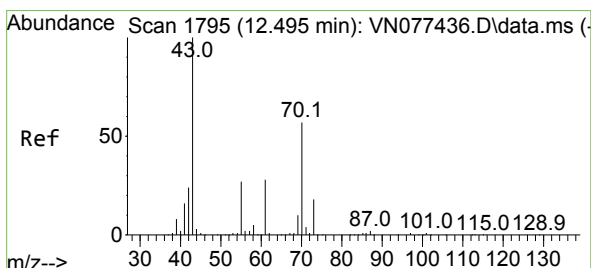
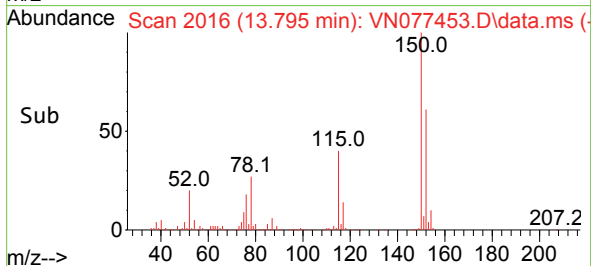
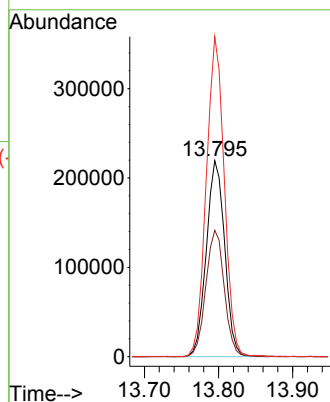
Tgt Ion:152 Resp: 378434

Ion Ratio Lower Upper

152 100

115 64.8 32.3 96.8

150 159.6 0.0 355.8



#74

N-ethyl acetate

Concen: 11.011 ug/l

RT: 12.307 min Scan# 1763

Delta R.T. -0.188 min

Lab File: VN077453.D

Acq: 25 Apr 2023 07:17

Tgt Ion: 43 Resp: 114473

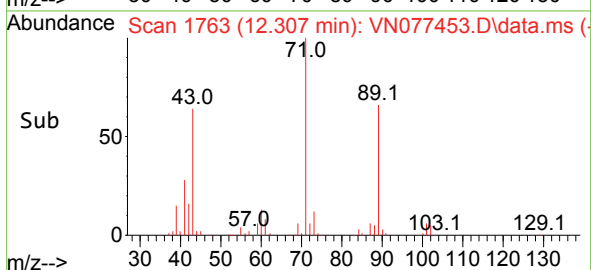
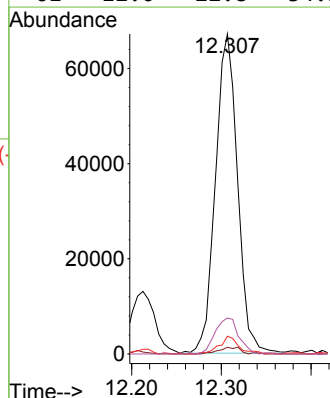
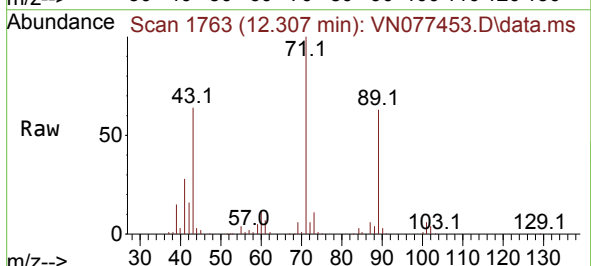
Ion Ratio Lower Upper

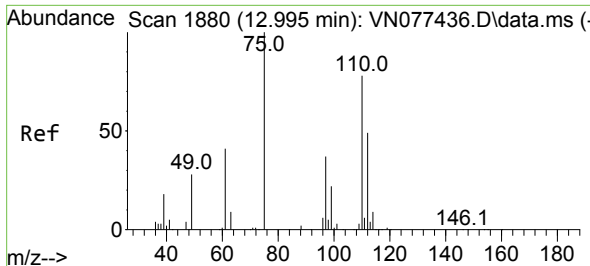
43 100

70 2.0 43.4 65.2#

55 5.0 21.4 32.0#

61 12.0 22.8 34.2#

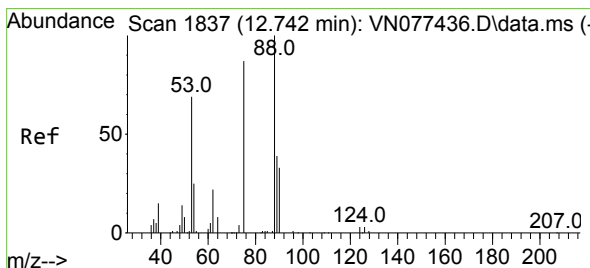
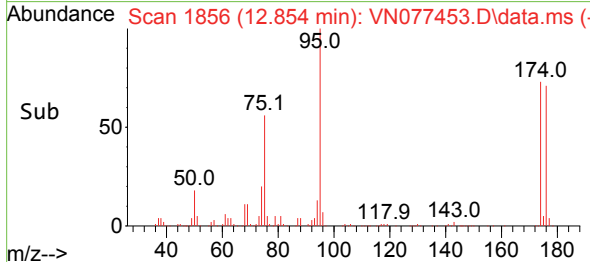
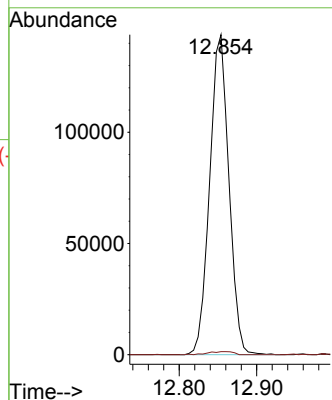
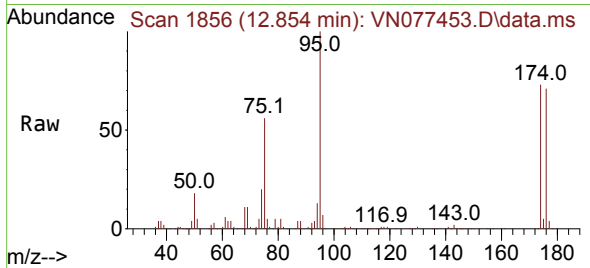




#76
1,2,3-Trichloropropane
Concen: 28.175 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN077453.D
Acq: 25 Apr 2023 07:17

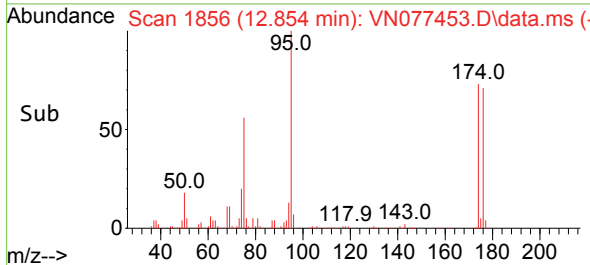
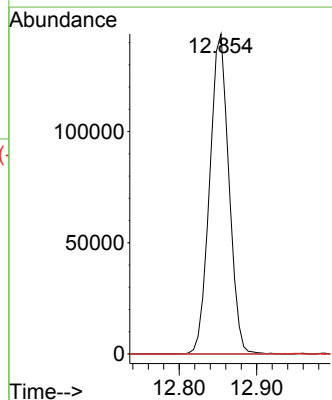
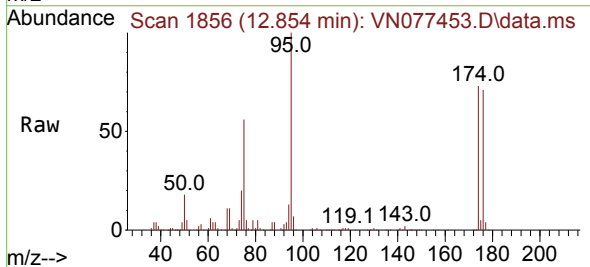
Instrument :
MSVOA_N
ClientSampleId :
PB152304ZHE#04

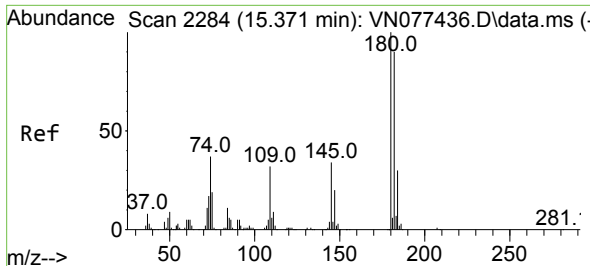
Tgt Ion: 75 Resp: 247944
Ion Ratio Lower Upper
75 100
77 1.3 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 79.600 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.112 min
Lab File: VN077453.D
Acq: 25 Apr 2023 07:17

Tgt Ion: 75 Resp: 247944
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#

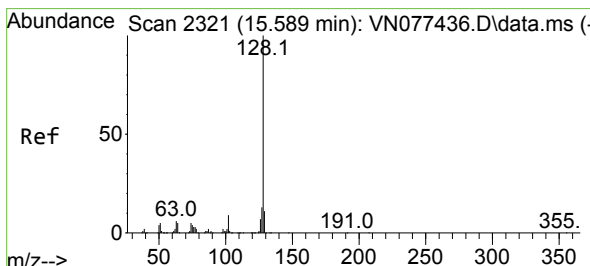
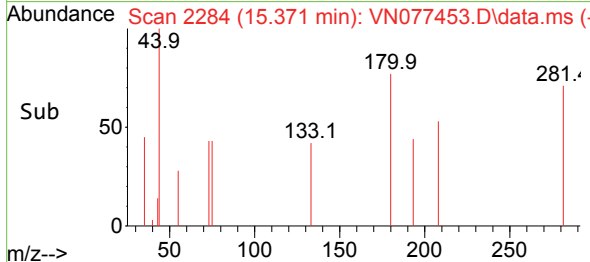
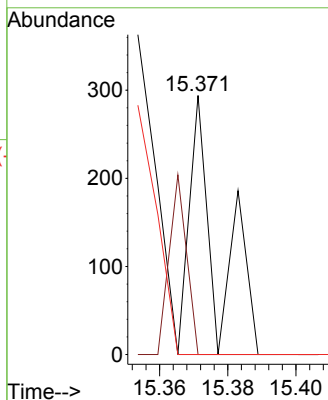
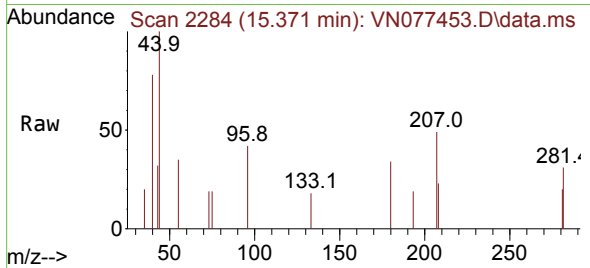




#93
1,2,4-Trichlorobenzene
Concen: 0.859 ug/l
RT: 15.371 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN077453.D
Acq: 25 Apr 2023 07:17

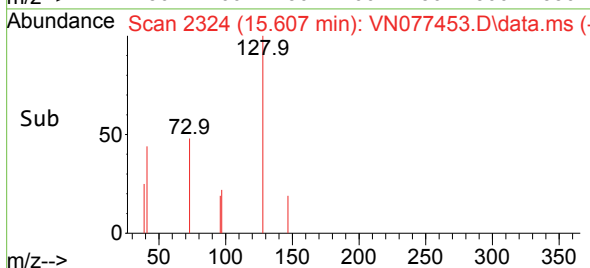
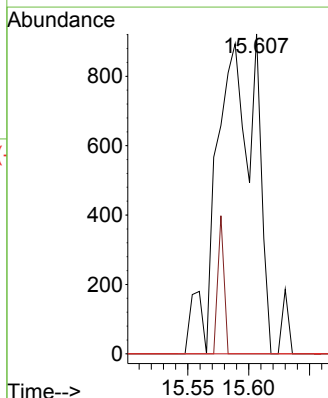
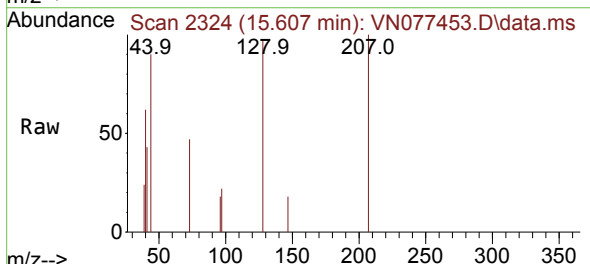
Instrument :
MSVOA_N
ClientSampleId :
PB152304ZHE#04

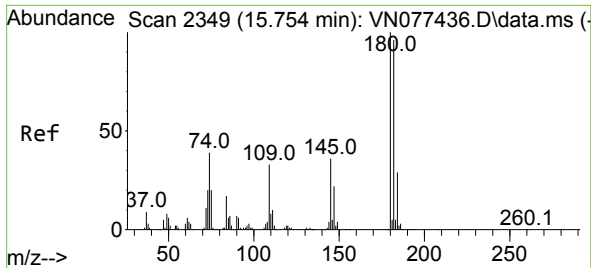
Tgt Ion:180 Resp: 169
Ion Ratio Lower Upper
180 100
182 42.6 46.1 138.2#
145 0.0 16.6 49.8#



#95
Naphthalene
Concen: 1.339 ug/l
RT: 15.607 min Scan# 2324
Delta R.T. 0.018 min
Lab File: VN077453.D
Acq: 25 Apr 2023 07:17

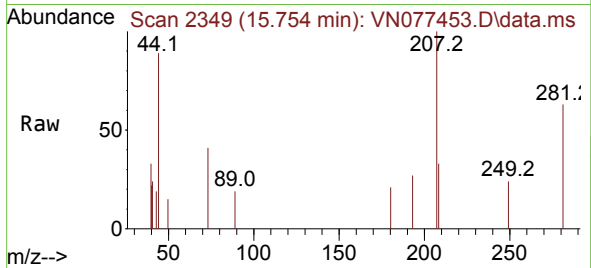
Tgt Ion:128 Resp: 2005
Ion Ratio Lower Upper
128 100
127 0.0 10.0 15.0#
129 0.0 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.529 ug/l
 RT: 15.754 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN077453.D
 Acq: 25 Apr 2023 07:17

Instrument :
 MSVOA_N
 ClientSampleId :
 PB152304ZHE#04



Tgt Ion:	180	Resp:	141
Ion	Ratio	Lower	Upper
180	100		
182	90.8	46.2	138.6
145	0.0	17.5	52.6#

