

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050323\
 Data File : VN077557.D
 Acq On : 03 May 2023 12:54
 Operator : JC\MD
 Sample : PB152533ZHE#02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB152533ZHE#02

Quant Time: May 04 04:44:33 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)

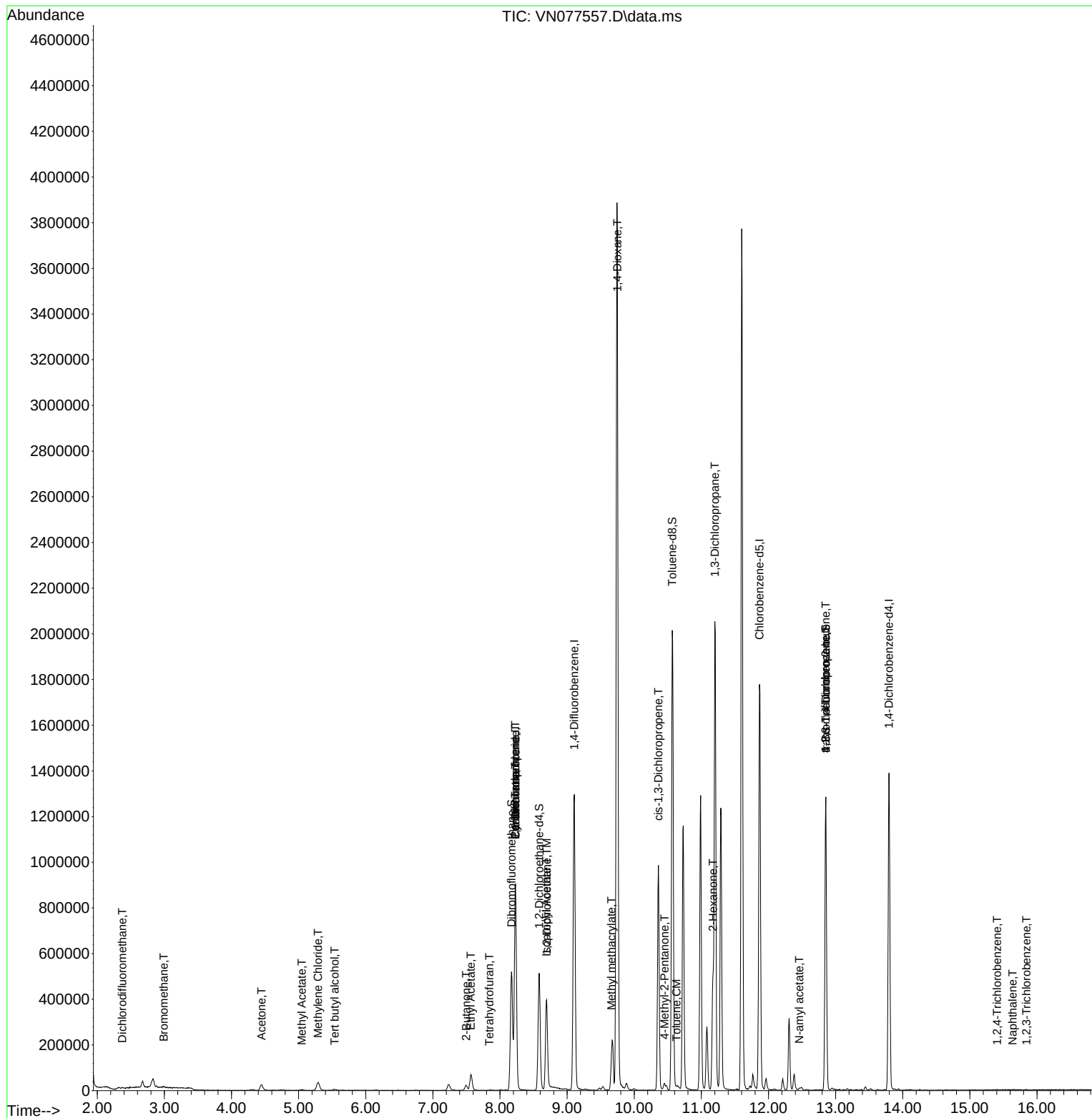
Internal Standards						
1) Pentafluorobenzene	8.230	168	642442	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	1211335	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	1107625	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	384851	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	420417	50.150	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.300%			
35) Dibromofluoromethane	8.172	113	376804	51.754	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.500%			
50) Toluene-d8	10.566	98	1508347	54.055	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 108.120%			
62) 4-Bromofluorobenzene	12.854	95	471521	51.649	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 103.300%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.372	85	57	0.316	ug/l #	43
5) Bromomethane	2.990	94	3884	0.523	ug/l #	78
11) Tert butyl alcohol	5.537	59	7985	5.933	ug/l #	87
16) Acetone	4.448	43	46683	17.504	ug/l	99
18) Methyl Acetate	5.048	43	6436	0.625	ug/l #	76
20) Methylene Chloride	5.289	84	31492	3.723	ug/l #	84
25) 2-Butanone	7.495	43	33029	8.732	ug/l	97
29) Tetrahydrofuran	7.842	42	597	0.252	ug/l #	27
31) Cyclohexane	8.230	56	14840	1.250	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	52840	5.024	ug/l #	49
37) Ethyl Acetate	7.566	43	92232	11.539	ug/l	94
38) Carbon Tetrachloride	8.230	117	71524	6.163	ug/l #	14
42) 1,2-Dichloroethane	8.695	62	3740	0.340	ug/l #	73
43) Isopropyl Acetate	8.689	43	436136	31.541	ug/l #	91
48) Methyl methacrylate	9.660	41	13601	2.161	ug/l #	3
49) 1,4-Dioxane	9.748	88	765	4.845	ug/l #	1
51) 4-Methyl-2-Pentanone	10.454	43	15633	1.928	ug/l	93
52) Toluene	10.630	92	5114	0.244	ug/l	92
54) cis-1,3-Dichloropropene	10.360	75	205261	15.808	ug/l #	60
57) 1,3-Dichloropropane	11.201	76	25850	1.923	ug/l #	43
59) 2-Hexanone	11.171	43	349878	59.347	ug/l #	19
74) N-amyl acetate	12.460	43	5686	0.538	ug/l #	42
76) 1,2,3-Trichloropropane	12.854	75	242661	27.115	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	242661	76.605	ug/l #	15
93) 1,2,4-Trichlorobenzene	15.406	180	463	0.963	ug/l #	86
95) Naphthalene	15.636	128	1459	1.282	ug/l	99
96) 1,2,3-Trichlorobenzene	15.842	180	382	0.623	ug/l #	48

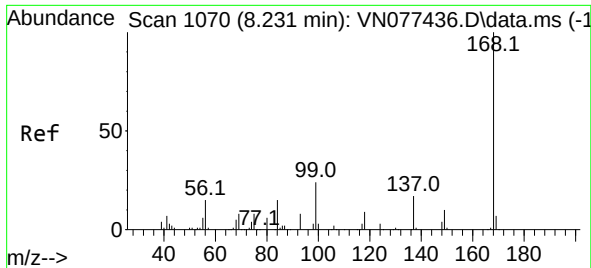
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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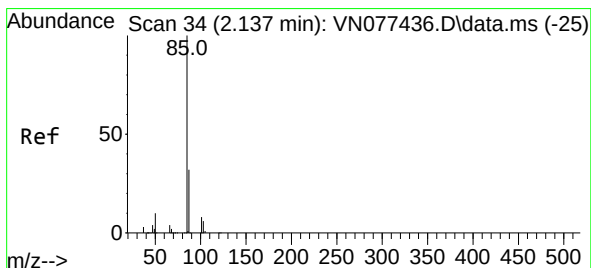
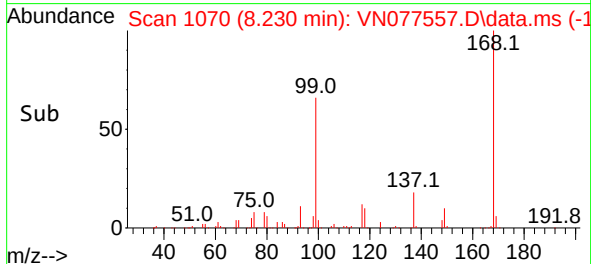
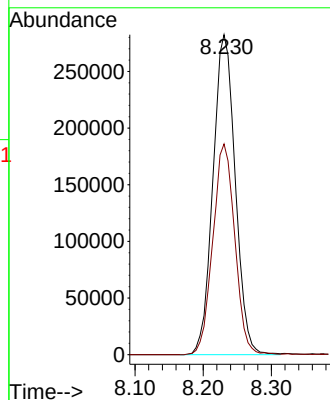
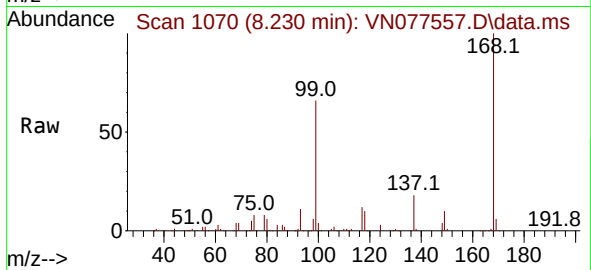




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.001 min
Lab File: VN077557.D
Acq: 03 May 2023 12:54

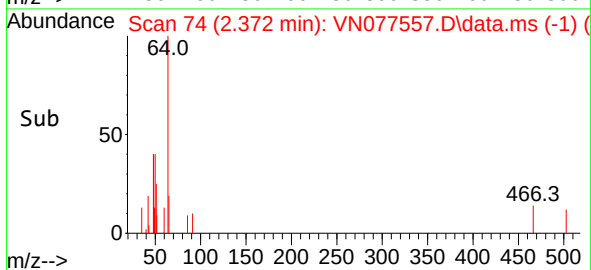
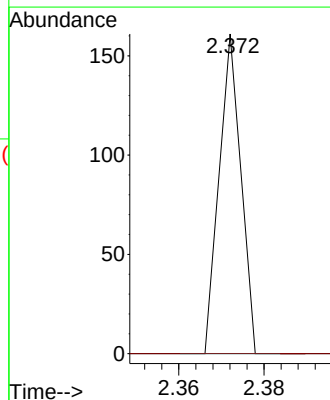
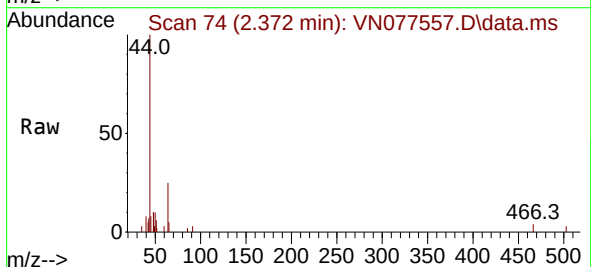
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#02

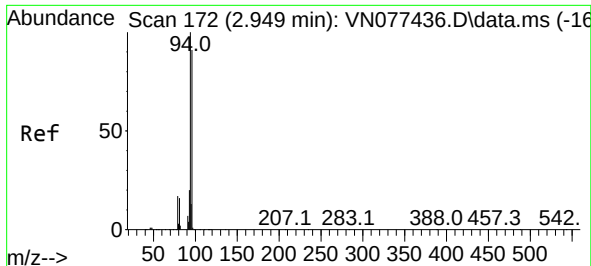
Tgt Ion:168 Resp: 642442
Ion Ratio Lower Upper
168 100
99 65.9 53.0 79.6



#2
Dichlorodifluoromethane
Concen: 0.316 ug/l
RT: 2.372 min Scan# 74
Delta R.T. 0.235 min
Lab File: VN077557.D
Acq: 03 May 2023 12:54

Tgt Ion: 85 Resp: 57
Ion Ratio Lower Upper
85 100
87 0.0 15.8 47.4#

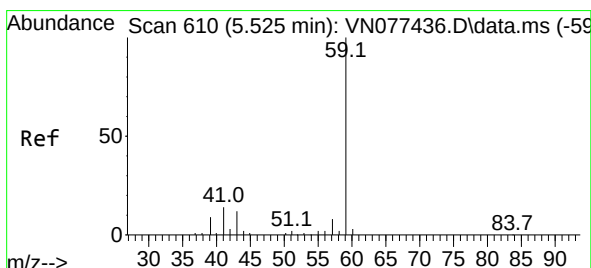
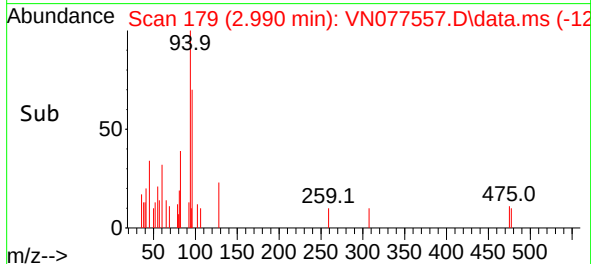
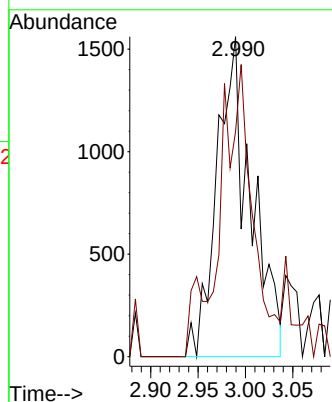
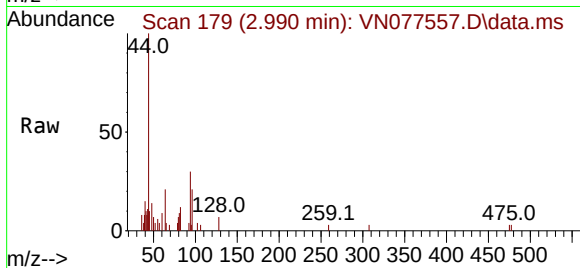




#5
Bromomethane
Concen: 0.523 ug/l
RT: 2.990 min Scan# 11
Delta R.T. 0.041 min
Lab File: VN077557.D
Acq: 03 May 2023 12:54

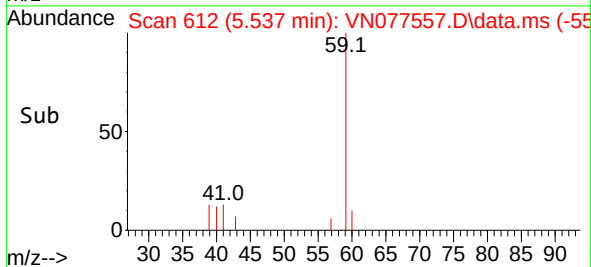
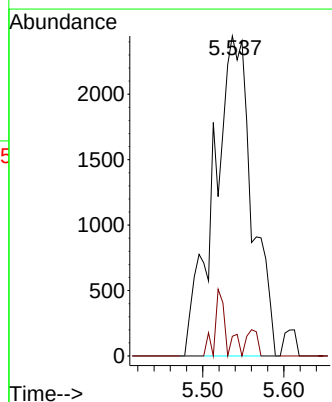
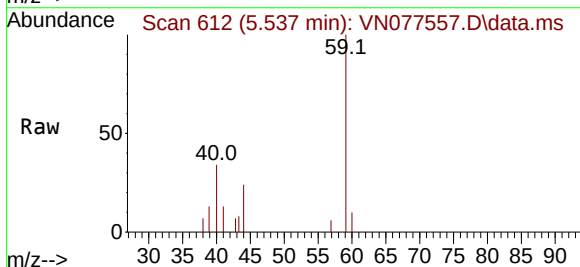
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#02

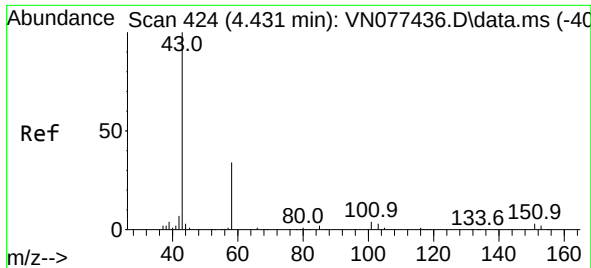
Tgt Ion: 94 Resp: 3884
Ion Ratio Lower Upper
94 100
96 70.3 73.1 109.7#



#11
Tert butyl alcohol
Concen: 5.933 ug/l
RT: 5.537 min Scan# 612
Delta R.T. 0.012 min
Lab File: VN077557.D
Acq: 03 May 2023 12:54

Tgt Ion: 59 Resp: 7985
Ion Ratio Lower Upper
59 100
57 5.5 8.2 12.4#





#16

Acetone

Concen: 17.504 ug/l

RT: 4.448 min Scan# 41

Delta R.T. 0.017 min

Lab File: VN077557.D

Acq: 03 May 2023 12:54

Instrument :

MSVOA_N

ClientSampleId :

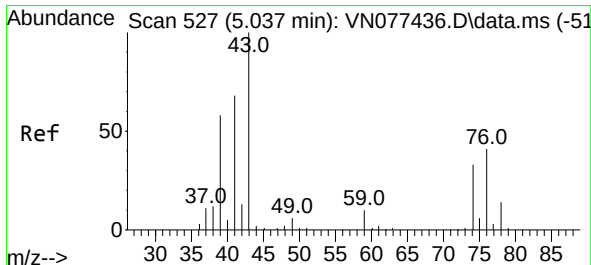
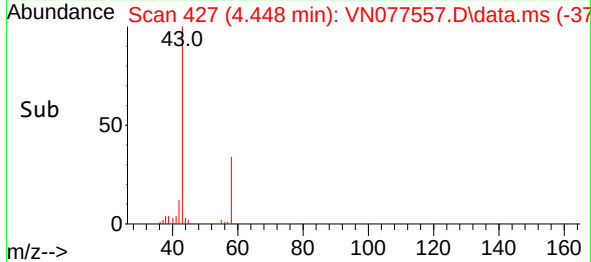
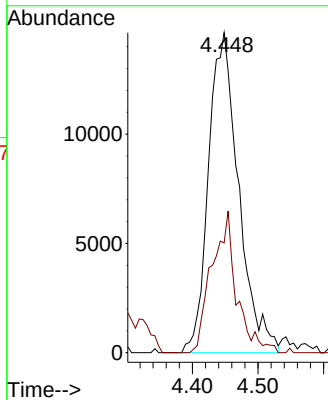
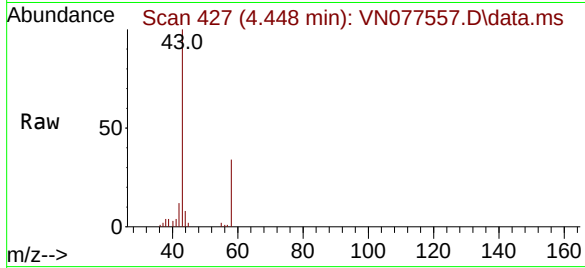
PB152533ZHE#02

Tgt Ion: 43 Resp: 46683

Ion Ratio Lower Upper

43 100

58 34.3 28.0 42.0



#18

Methyl Acetate

Concen: 0.625 ug/l

RT: 5.048 min Scan# 529

Delta R.T. 0.012 min

Lab File: VN077557.D

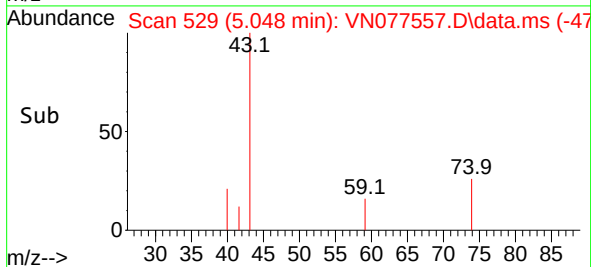
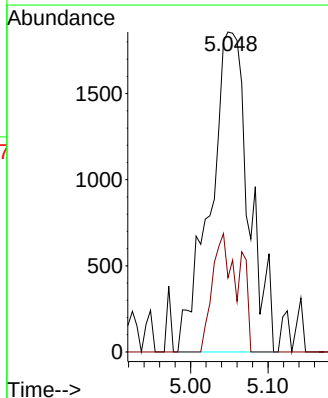
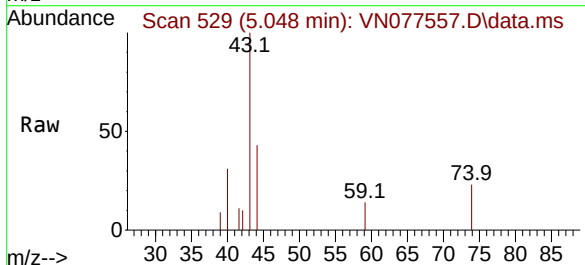
Acq: 03 May 2023 12:54

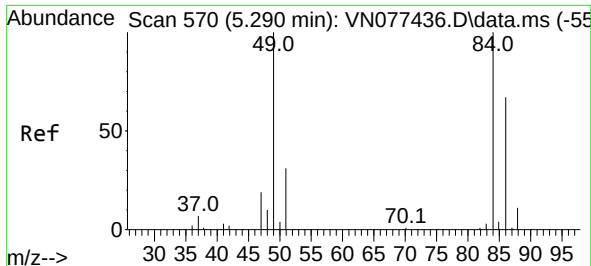
Tgt Ion: 43 Resp: 6436

Ion Ratio Lower Upper

43 100

74 19.3 26.2 39.4#

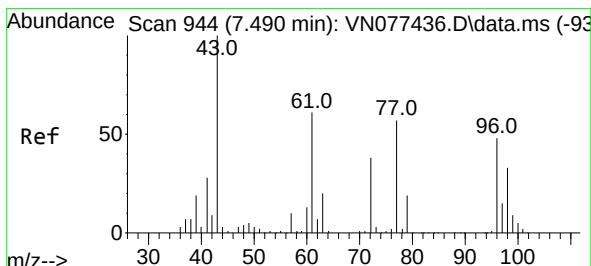
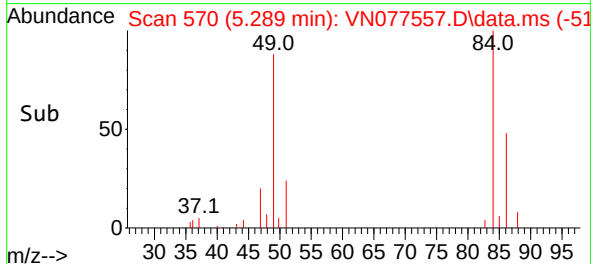
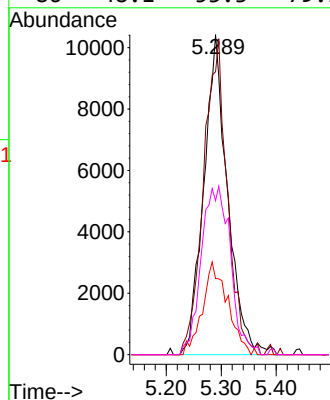
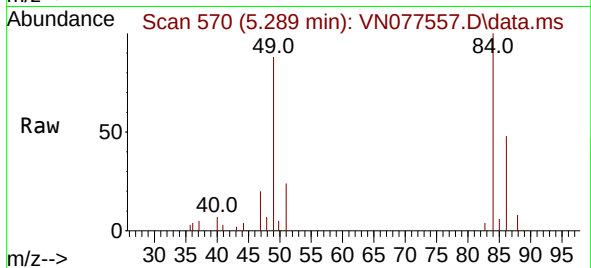




#20
Methylene Chloride
Concen: 3.723 ug/l
RT: 5.289 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN077557.D
Acq: 03 May 2023 12:54

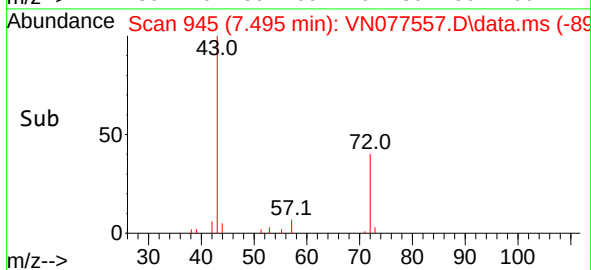
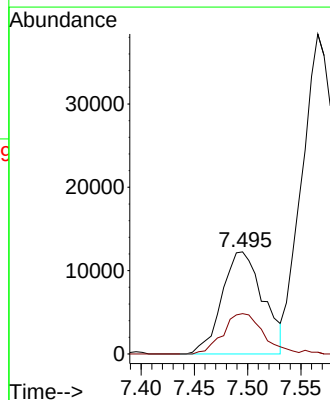
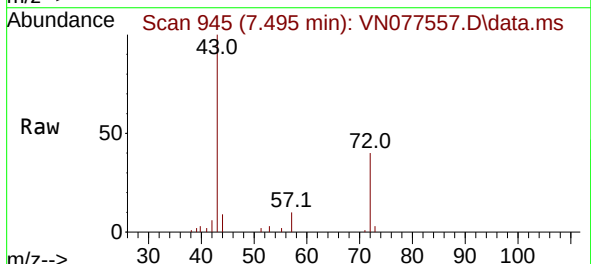
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#02

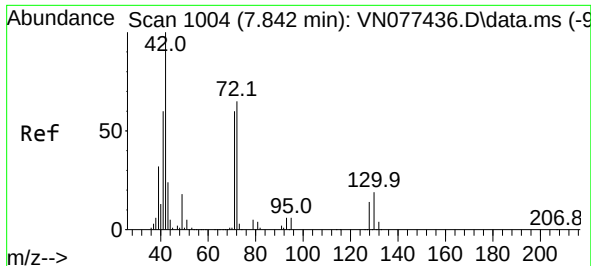
Tgt Ion:	84	Resp:	31492
Ion	Ratio	Lower	Upper
84	100		
49	88.4	79.7	119.5
51	23.8	25.2	37.8#
86	48.1	53.3	79.9#



#25
2-Butanone
Concen: 8.732 ug/l
RT: 7.495 min Scan# 945
Delta R.T. 0.006 min
Lab File: VN077557.D
Acq: 03 May 2023 12:54

Tgt Ion:	43	Resp:	33029
Ion	Ratio	Lower	Upper
43	100		
72	39.6	30.2	45.2





#29

Tetrahydrofuran

Concen: 0.252 ug/l

RT: 7.842 min Scan# 10

Delta R.T. -0.000 min

Lab File: VN077557.D

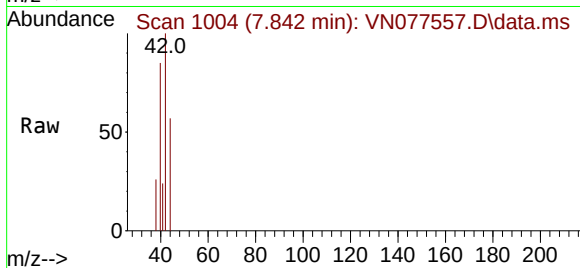
Acq: 03 May 2023 12:54

Instrument :

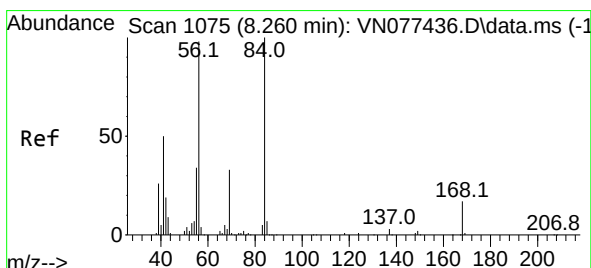
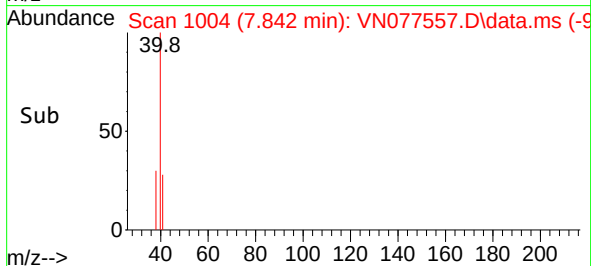
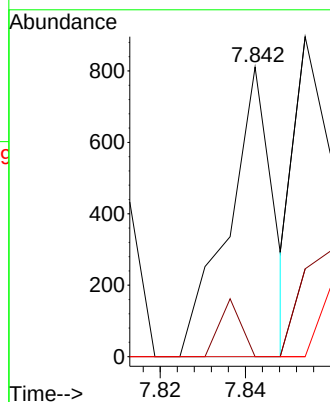
MSVOA_N

ClientSampleId :

PB152533ZHE#02



Tgt Ion:	42	Resp:	597
Ion Ratio	Lower	Upper	
42	100		
72	9.5	49.8	74.6#
71	0.0	47.4	71.2#



#31

Cyclohexane

Concen: 1.250 ug/l

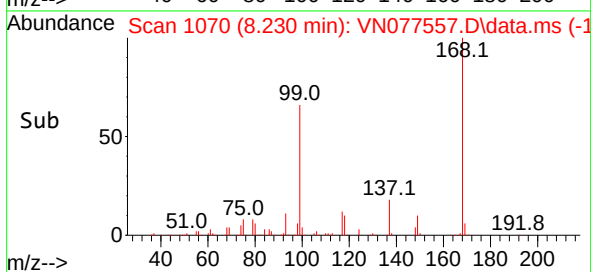
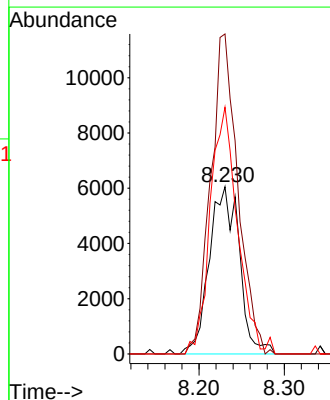
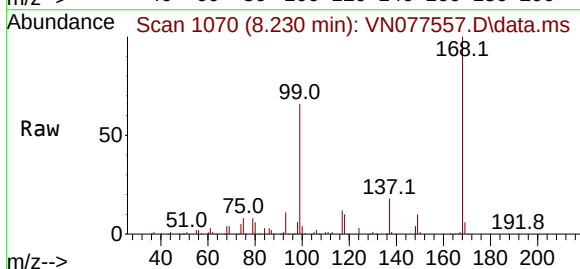
RT: 8.230 min Scan# 1070

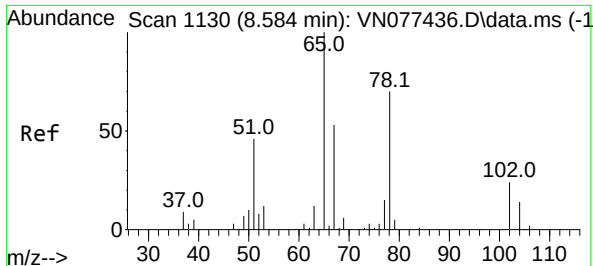
Delta R.T. -0.030 min

Lab File: VN077557.D

Acq: 03 May 2023 12:54

Tgt Ion:	56	Resp:	14840
Ion Ratio	Lower	Upper	
56	100		
69	191.4	26.8	40.2#
84	147.6	81.8	122.6#





#33

1,2-Dichloroethane-d4

Concen: 50.150 ug/l

RT: 8.583 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN077557.D

Acq: 03 May 2023 12:54

Instrument :

MSVOA_N

ClientSampleId :

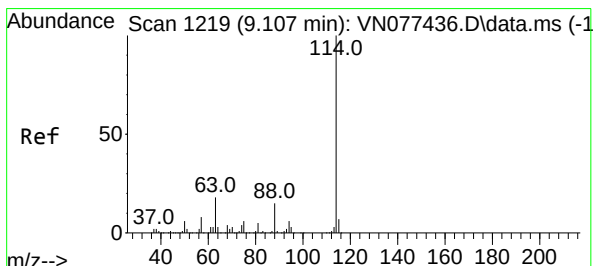
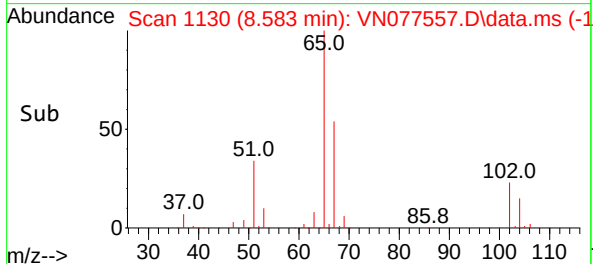
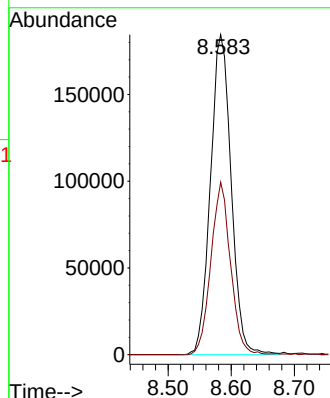
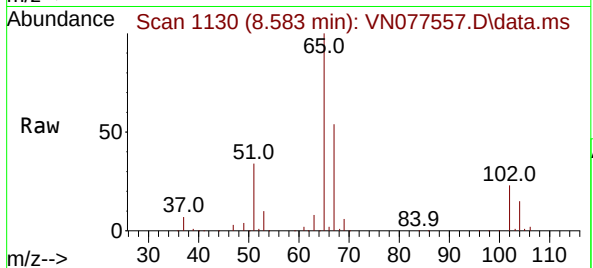
PB152533ZHE#02

Tgt Ion: 65 Resp: 420417

Ion Ratio Lower Upper

65 100

67 51.0 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. -0.000 min

Lab File: VN077557.D

Acq: 03 May 2023 12:54

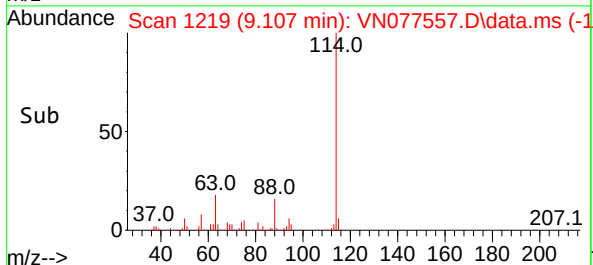
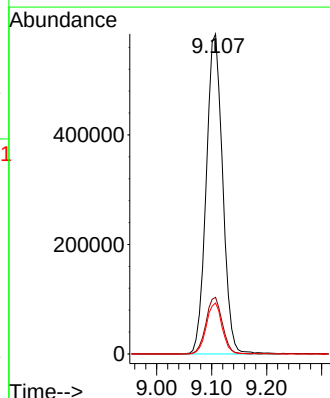
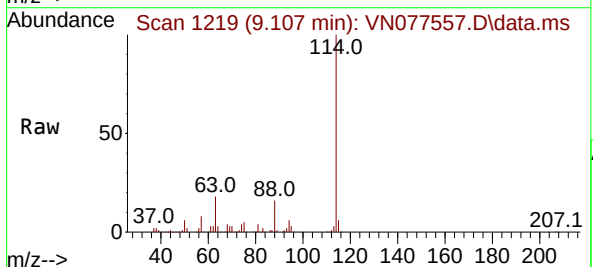
Tgt Ion: 114 Resp: 1211335

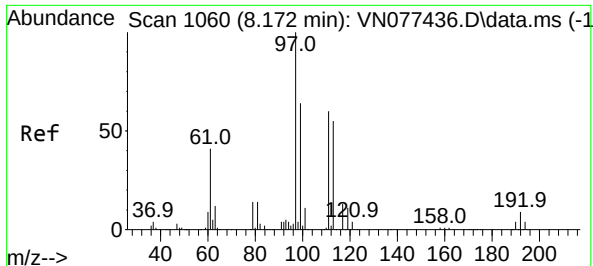
Ion Ratio Lower Upper

114 100

63 17.7 0.0 36.4

88 15.9 0.0 30.6





#35

Dibromofluoromethane

Concen: 51.754 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. -0.000 min

Lab File: VN077557.D

Acq: 03 May 2023 12:54

Instrument :

MSVOA_N

ClientSampleId :

PB152533ZHE#02

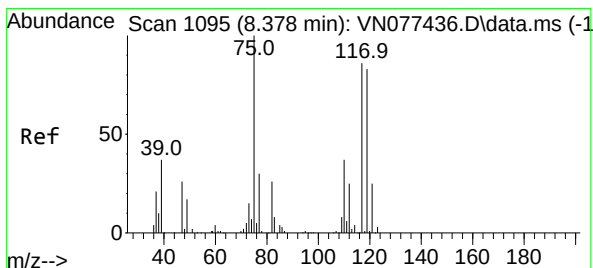
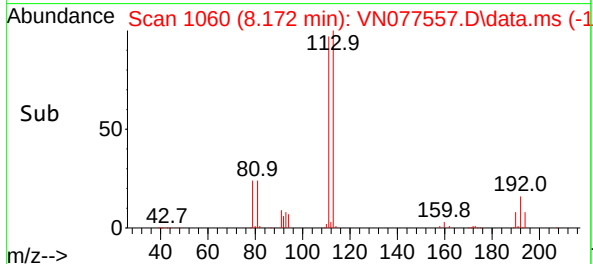
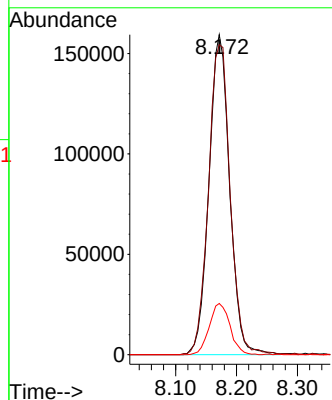
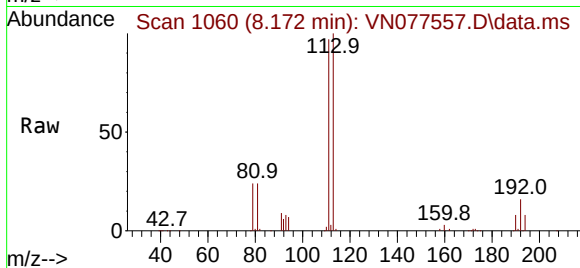
Tgt Ion:113 Resp: 376804

Ion Ratio Lower Upper

113 100

111 101.6 82.6 123.8

192 16.0 12.7 19.1



#36

1,1-Dichloropropene

Concen: 5.024 ug/l

RT: 8.230 min Scan# 1070

Delta R.T. -0.147 min

Lab File: VN077557.D

Acq: 03 May 2023 12:54

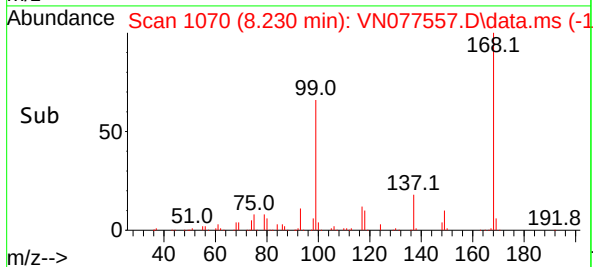
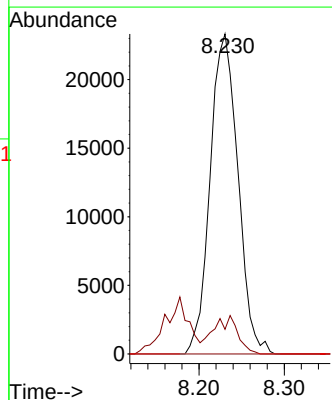
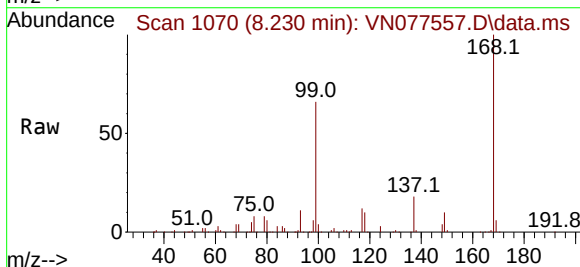
Tgt Ion: 75 Resp: 52840

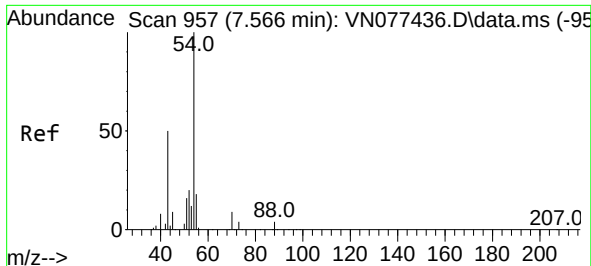
Ion Ratio Lower Upper

75 100

110 10.6 19.1 57.3#

77 0.0 25.0 37.4#

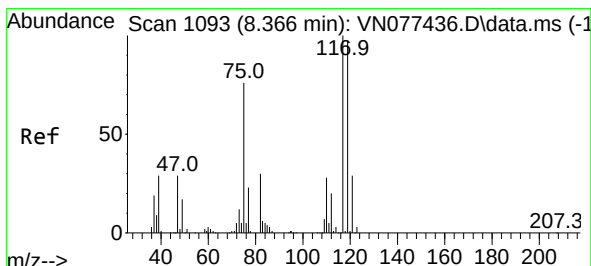
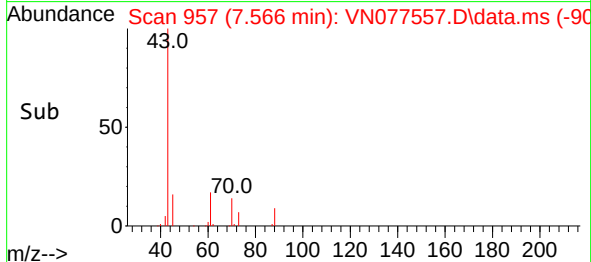
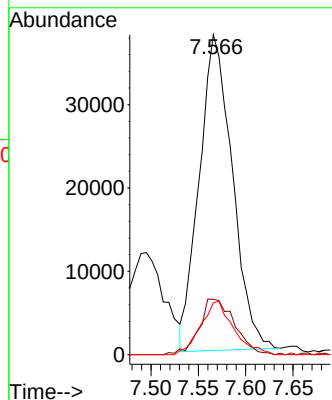
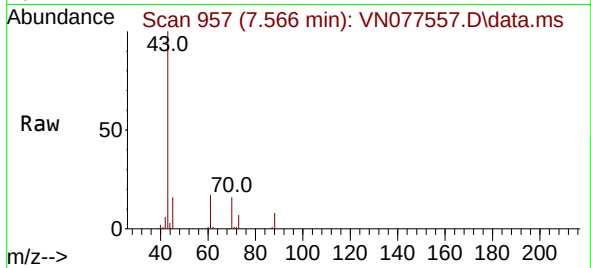




#37
Ethyl Acetate
Concen: 11.539 ug/l
RT: 7.566 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN077557.D
Acq: 03 May 2023 12:54

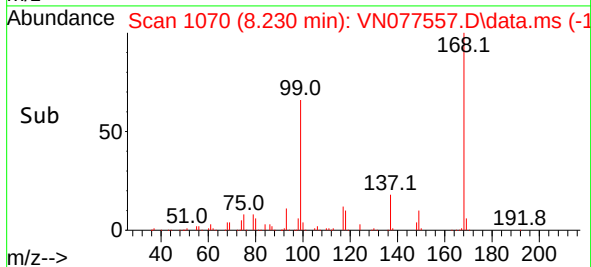
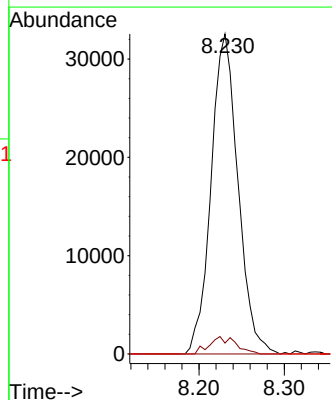
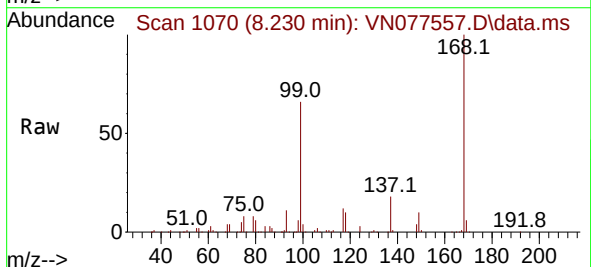
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#02

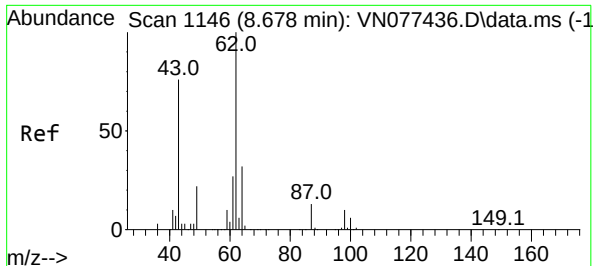
Tgt Ion:	43	Resp:	92232
Ion	Ratio	Lower	Upper
43	100		
61	18.8	13.2	19.8
70	16.7	11.3	16.9



#38
Carbon Tetrachloride
Concen: 6.163 ug/l
RT: 8.230 min Scan# 1070
Delta R.T. -0.135 min
Lab File: VN077557.D
Acq: 03 May 2023 12:54

Tgt Ion:	117	Resp:	71524
Ion	Ratio	Lower	Upper
117	100		
119	3.4	77.3	115.9#
121	0.0	23.3	34.9#





#42

1,2-Dichloroethane

Concen: 0.340 ug/l

RT: 8.695 min Scan# 1149

Delta R.T. 0.017 min

Lab File: VN077557.D

Acq: 03 May 2023 12:54

Instrument :

MSVOA_N

ClientSampleId :

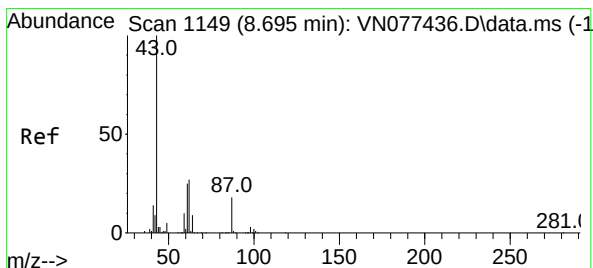
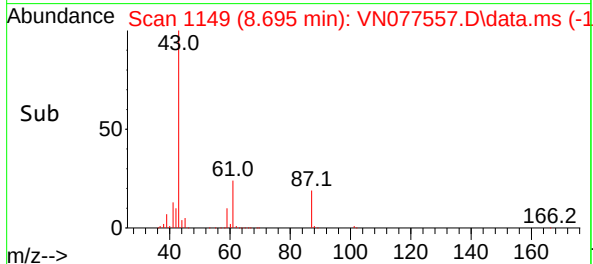
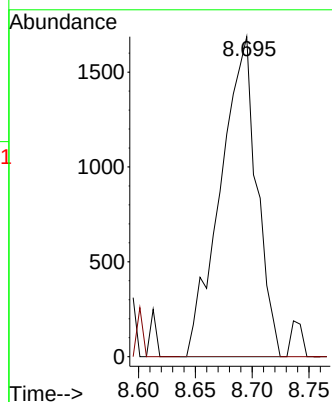
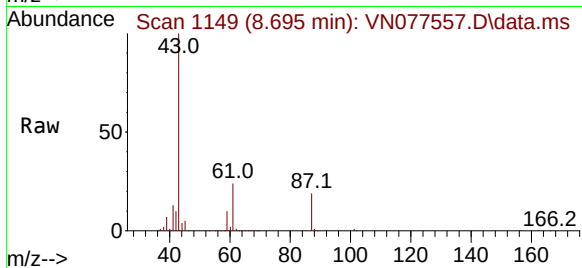
PB152533ZHE#02

Tgt Ion: 62 Resp: 3740

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 31.541 ug/l

RT: 8.689 min Scan# 1148

Delta R.T. -0.006 min

Lab File: VN077557.D

Acq: 03 May 2023 12:54

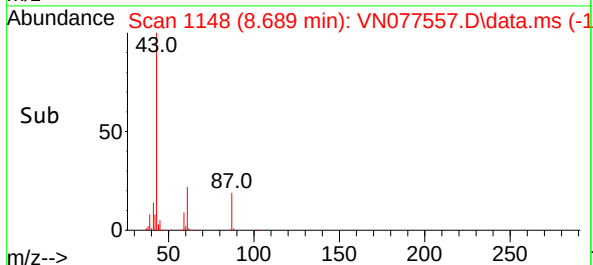
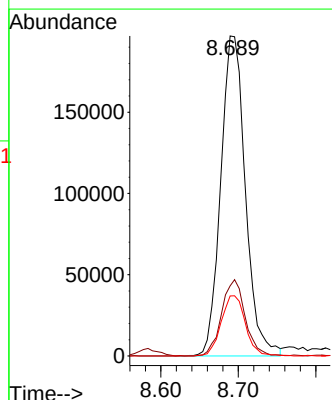
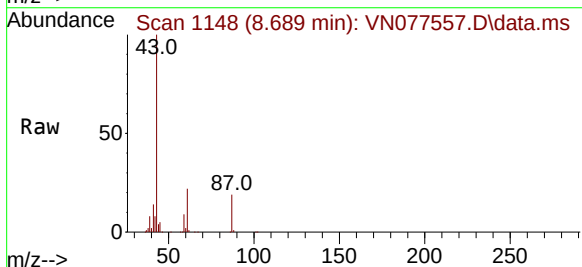
Tgt Ion: 43 Resp: 436136

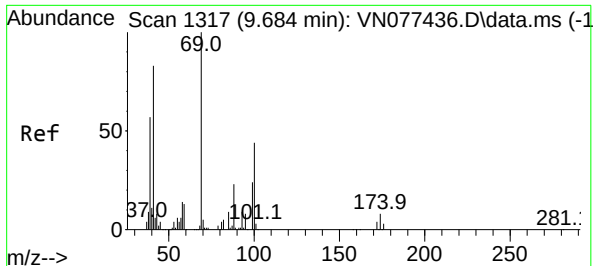
Ion Ratio Lower Upper

43 100

61 22.9 24.7 37.1#

87 18.5 14.6 21.8

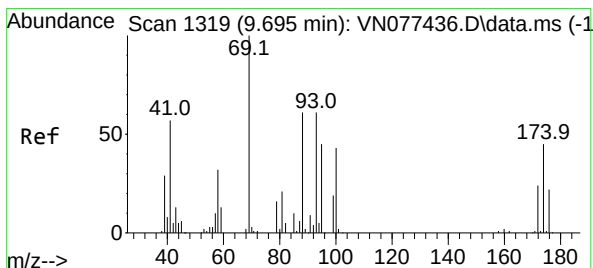
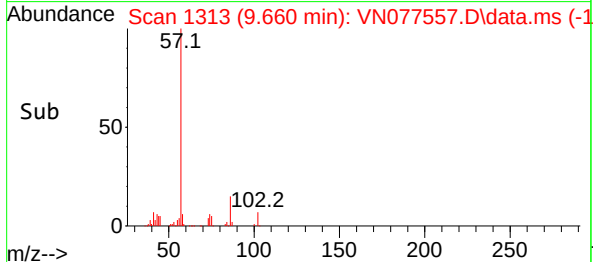
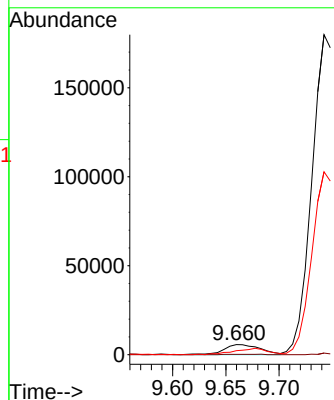
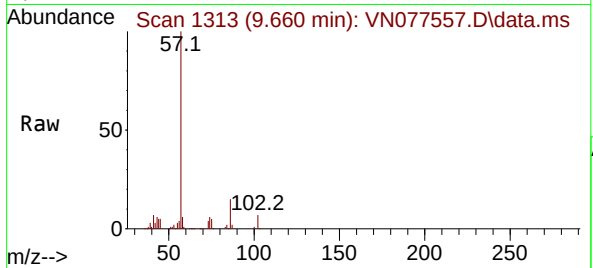




#48
Methyl methacrylate
Concen: 2.161 ug/l
RT: 9.660 min Scan# 11
Delta R.T. -0.024 min
Lab File: VN077557.D
Acq: 03 May 2023 12:54

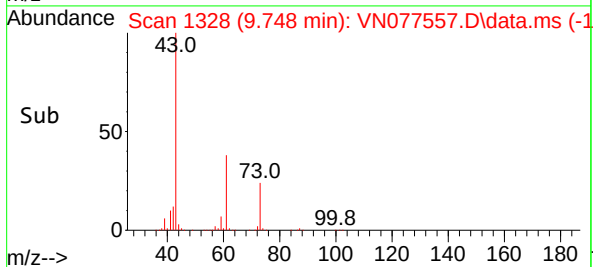
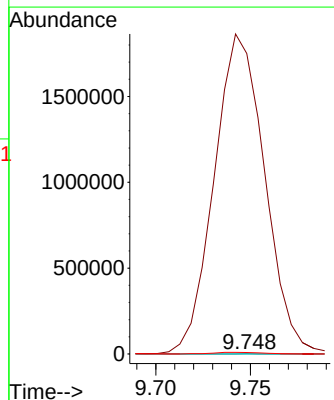
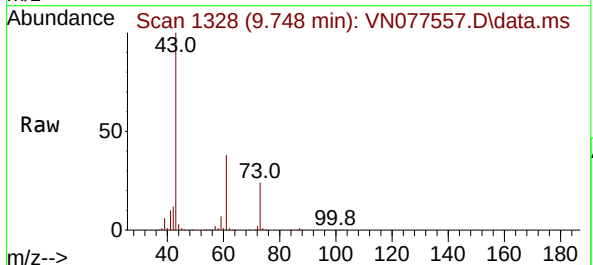
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#02

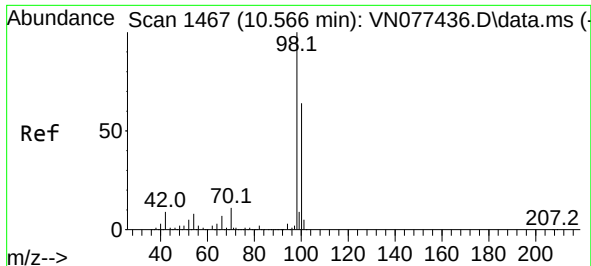
Tgt Ion: 41 Resp: 13601
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 0.0 54.6 81.8#



#49
1,4-Dioxane
Concen: 4.845 ug/l
RT: 9.748 min Scan# 1328
Delta R.T. 0.053 min
Lab File: VN077557.D
Acq: 03 May 2023 12:54

Tgt Ion: 88 Resp: 765
Ion Ratio Lower Upper
88 100
43 455794.0 17.0 25.6#
58 2392.8 47.0 70.4#

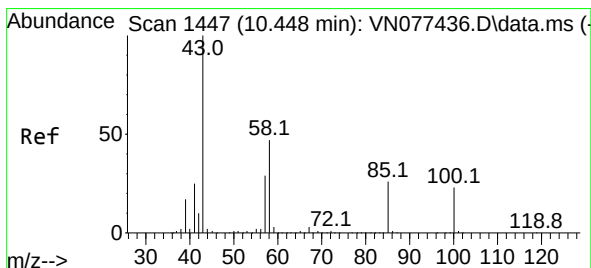
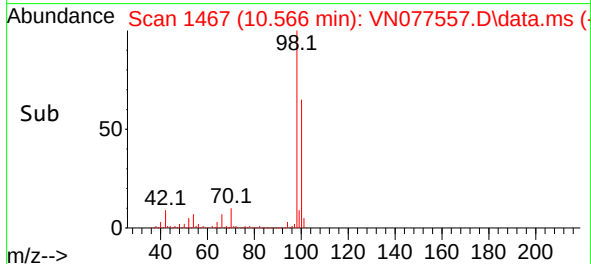
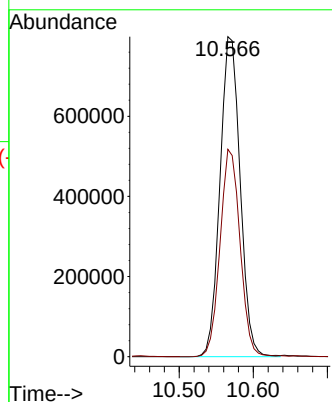
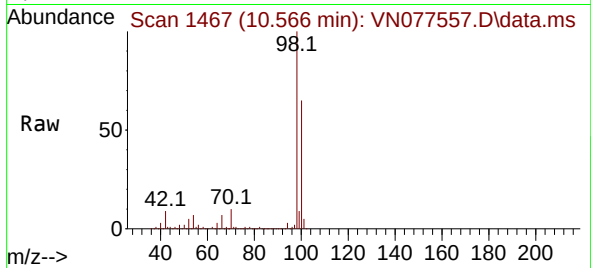




#50
Toluene-d8
Concen: 54.055 ug/l
RT: 10.566 min Scan# 1467
Delta R.T. -0.000 min
Lab File: VN077557.D
Acq: 03 May 2023 12:54

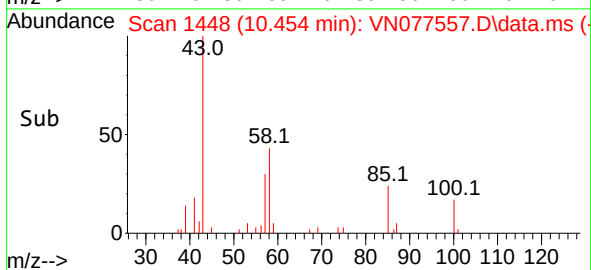
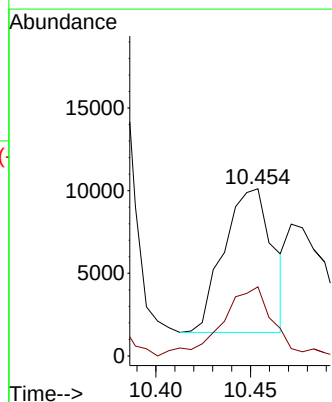
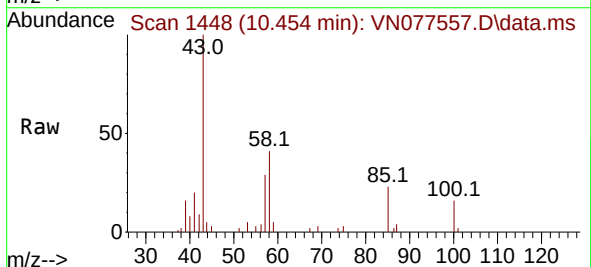
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#02

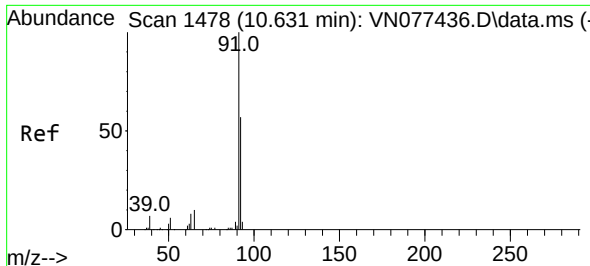
Tgt Ion: 98 Resp: 1508347
Ion Ratio Lower Upper
98 100
100 64.2 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 1.928 ug/l
RT: 10.454 min Scan# 1448
Delta R.T. 0.006 min
Lab File: VN077557.D
Acq: 03 May 2023 12:54

Tgt Ion: 43 Resp: 15633
Ion Ratio Lower Upper
43 100
58 50.4 36.6 54.8

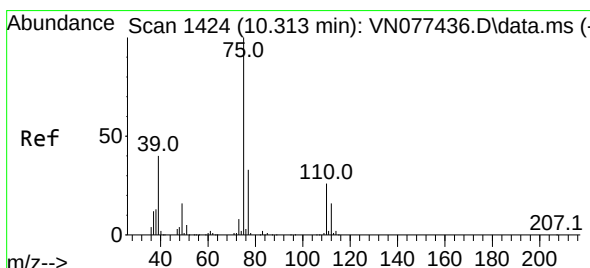
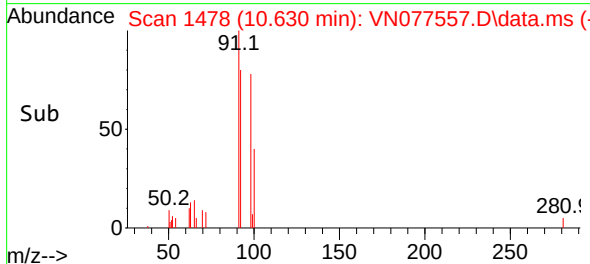
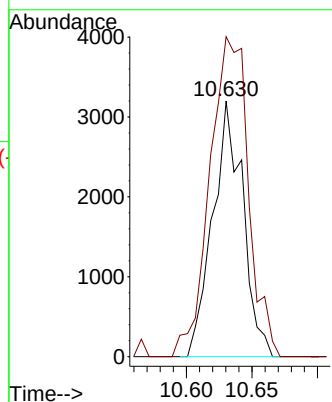
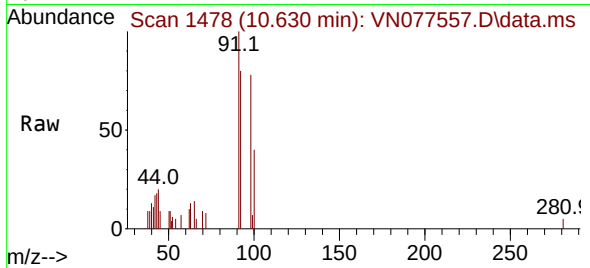




#52
Toluene
Concen: 0.244 ug/l
RT: 10.630 min Scan# 1478
Delta R.T. -0.000 min
Lab File: VN077557.D
Acq: 03 May 2023 12:54

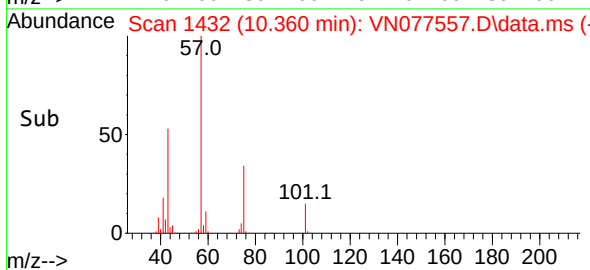
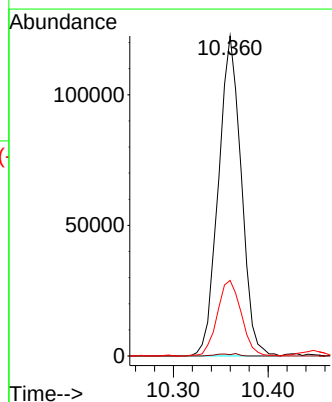
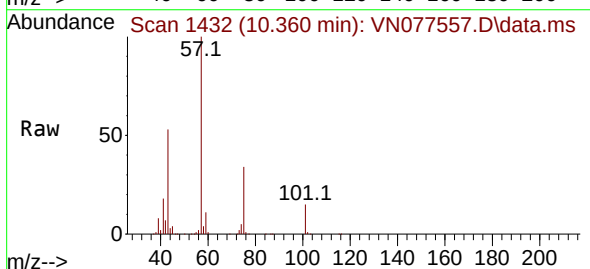
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#02

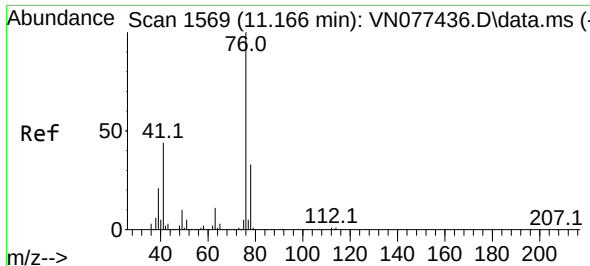
Tgt Ion: 92 Resp: 5114
Ion Ratio Lower Upper
92 100
91 160.7 137.4 206.0



#54
cis-1,3-Dichloropropene
Concen: 15.808 ug/l
RT: 10.360 min Scan# 1432
Delta R.T. 0.047 min
Lab File: VN077557.D
Acq: 03 May 2023 12:54

Tgt Ion: 75 Resp: 205261
Ion Ratio Lower Upper
75 100
77 0.4 26.1 39.1#
39 23.6 31.6 47.4#





#57

1,3-Dichloropropane

Concen: 1.923 ug/l

RT: 11.201 min Scan# 1575

Delta R.T. 0.035 min

Lab File: VN077557.D

Acq: 03 May 2023 12:54

Instrument :

MSVOA_N

ClientSampleId :

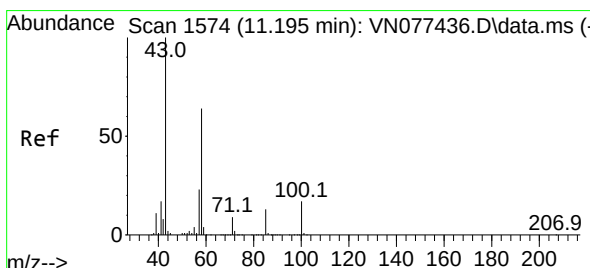
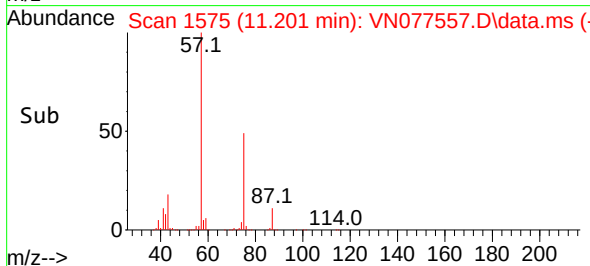
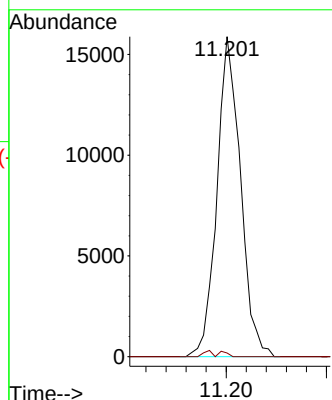
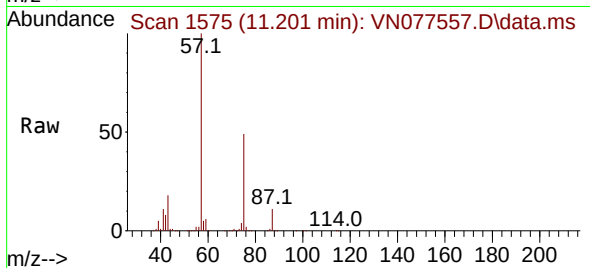
PB152533ZHE#02

Tgt Ion: 76 Resp: 25850

Ion Ratio Lower Upper

76 100

78 0.7 26.1 39.1#



#59

2-Hexanone

Concen: 59.347 ug/l

RT: 11.171 min Scan# 1570

Delta R.T. -0.024 min

Lab File: VN077557.D

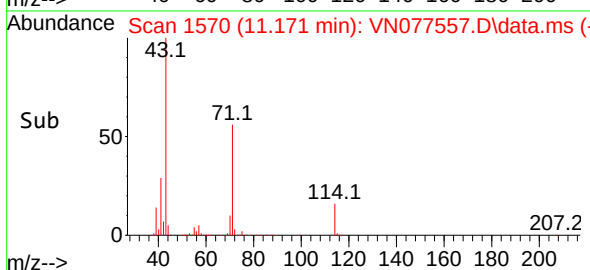
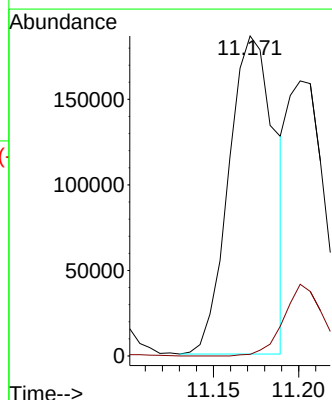
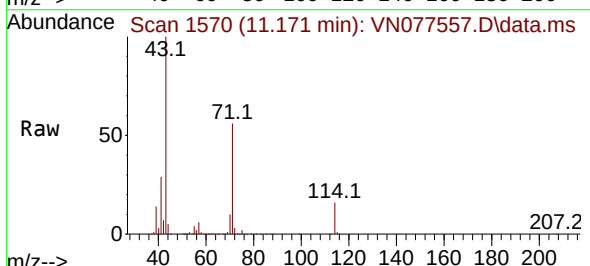
Acq: 03 May 2023 12:54

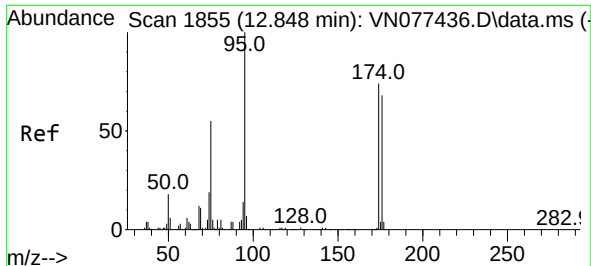
Tgt Ion: 43 Resp: 349878

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

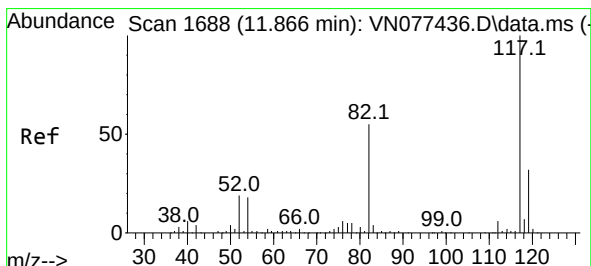
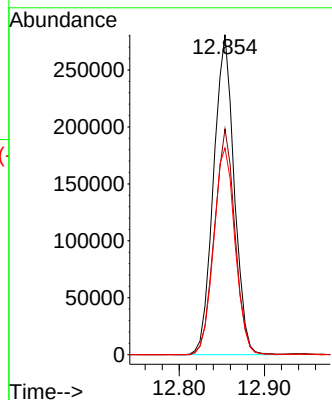
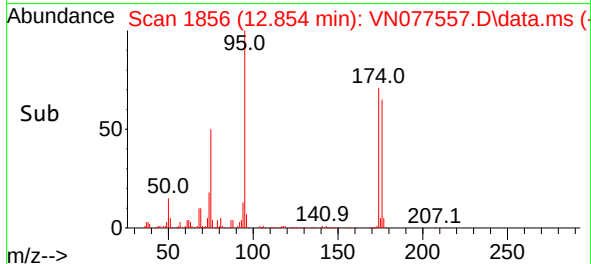
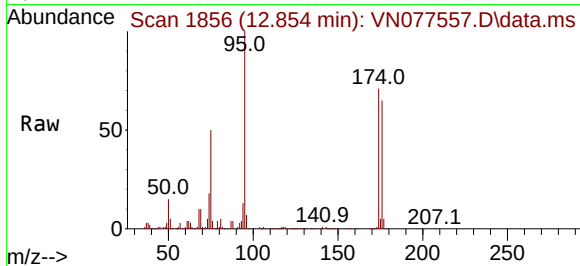




#62
4-Bromofluorobenzene
Concen: 51.649 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077557.D
Acq: 03 May 2023 12:54

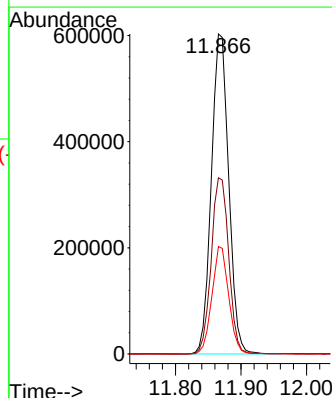
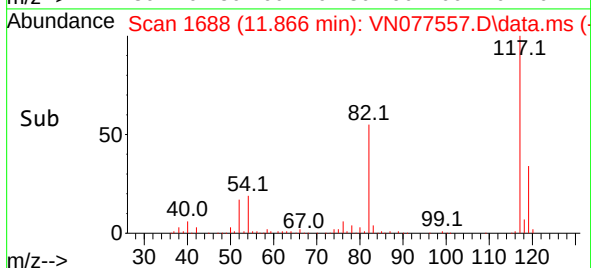
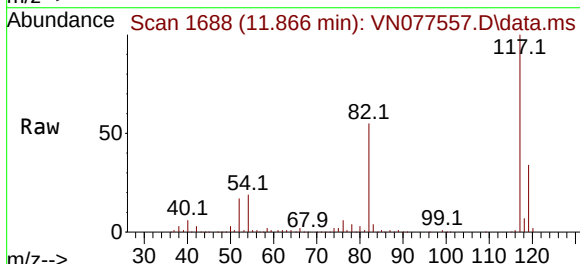
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#02

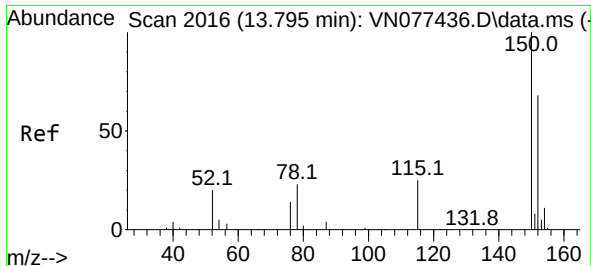
Tgt Ion: 95 Resp: 471521
Ion Ratio Lower Upper
95 100
174 70.6 0.0 143.8
176 67.0 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VN077557.D
Acq: 03 May 2023 12:54

Tgt Ion: 117 Resp: 1107625
Ion Ratio Lower Upper
117 100
82 55.0 44.0 66.0
119 33.6 25.6 38.4

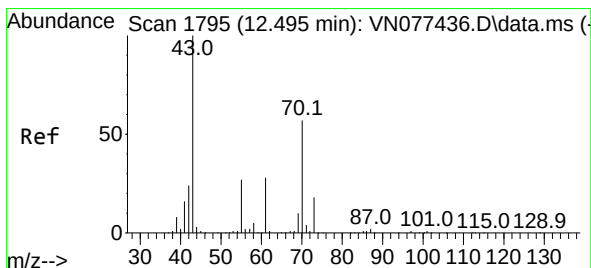
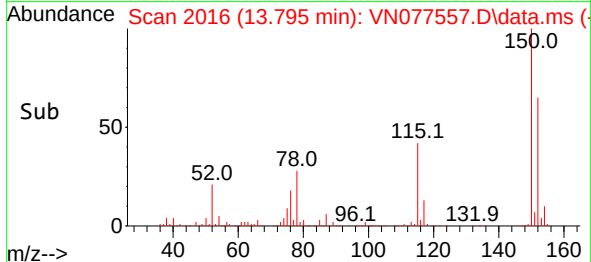
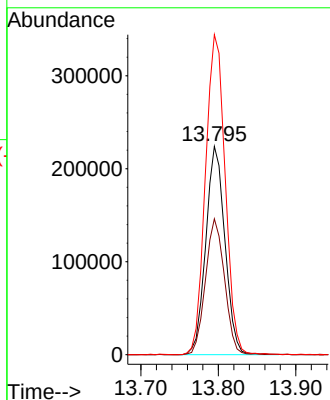
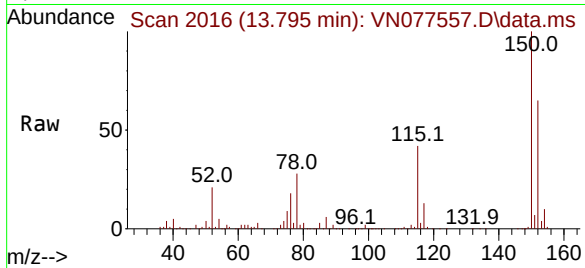




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN077557.D
Acq: 03 May 2023 12:54

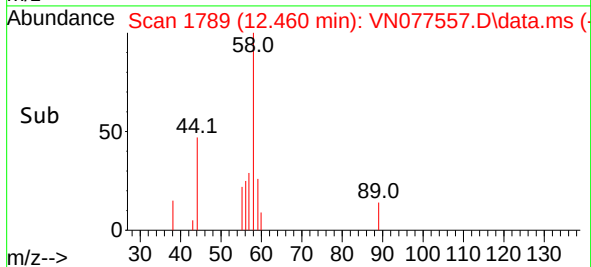
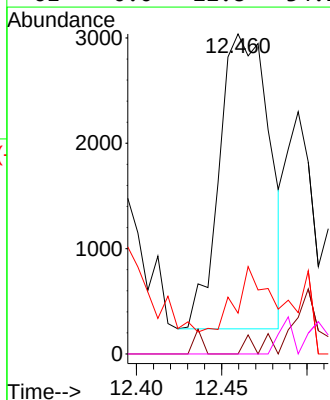
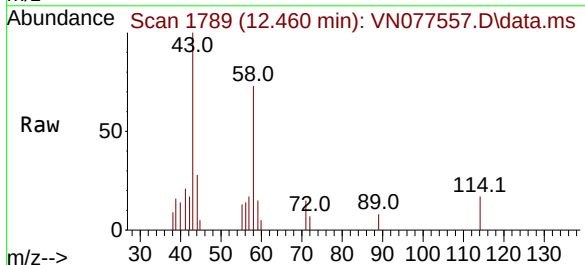
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#02

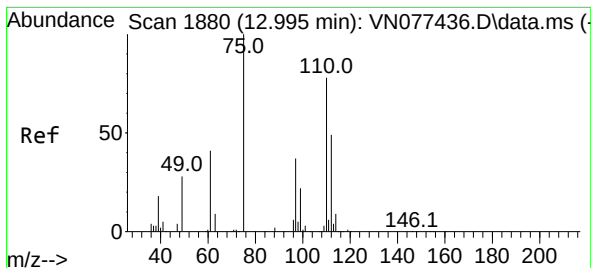
Tgt Ion:152 Resp: 384851
Ion Ratio Lower Upper
152 100
115 64.9 32.3 96.8
150 158.4 0.0 355.8



#74
N-ethyl acetate
Concen: 0.538 ug/l
RT: 12.460 min Scan# 1789
Delta R.T. -0.035 min
Lab File: VN077557.D
Acq: 03 May 2023 12:54

Tgt Ion: 43 Resp: 5686
Ion Ratio Lower Upper
43 100
70 0.0 43.4 65.2#
55 13.7 21.4 32.0#
61 0.0 22.8 34.2#





#76

1,2,3-Trichloropropane

Concen: 27.115 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. -0.141 min

Lab File: VN077557.D

Acq: 03 May 2023 12:54

Instrument :

MSVOA_N

ClientSampleId :

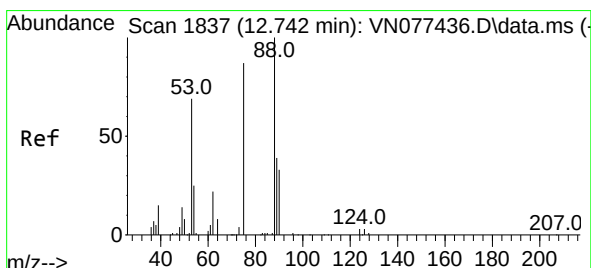
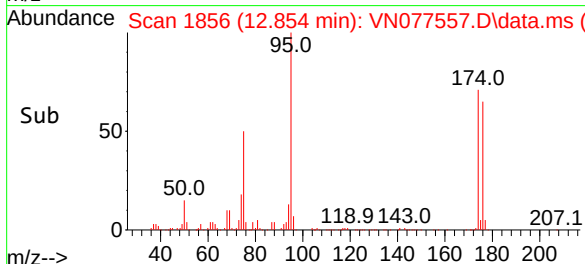
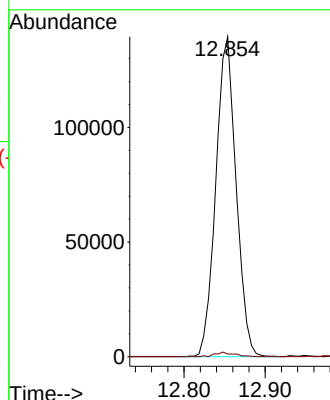
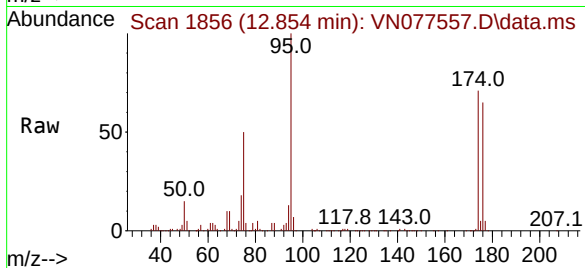
PB152533ZHE#02

Tgt Ion: 75 Resp: 242661

Ion Ratio Lower Upper

75 100

77 1.4 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 76.605 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. 0.112 min

Lab File: VN077557.D

Acq: 03 May 2023 12:54

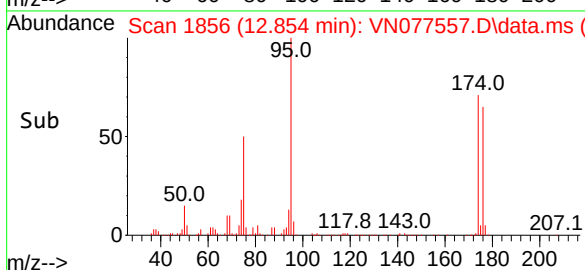
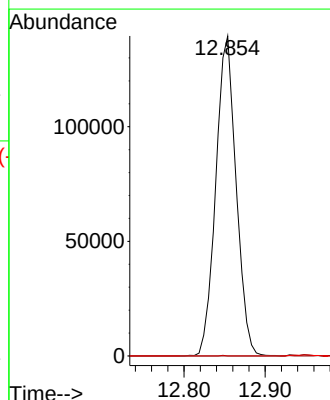
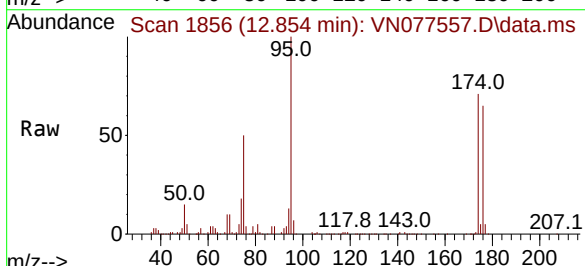
Tgt Ion: 75 Resp: 242661

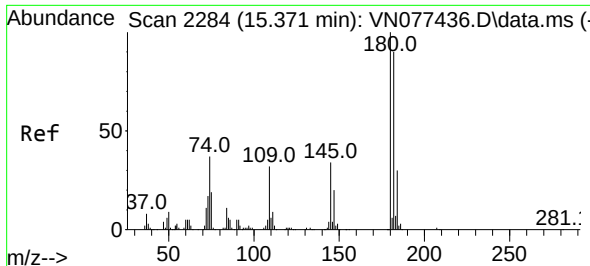
Ion Ratio Lower Upper

75 100

53 0.0 67.4 101.2#

89 0.0 38.8 58.2#

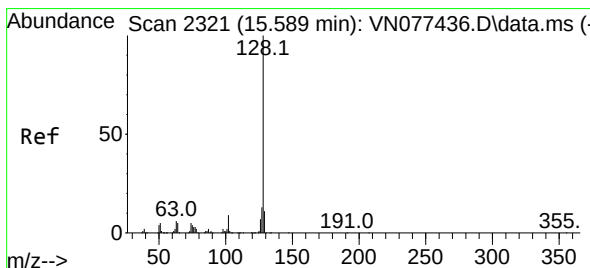
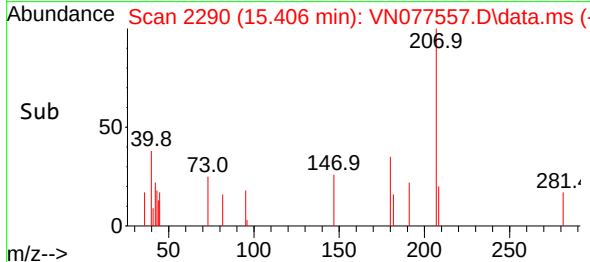
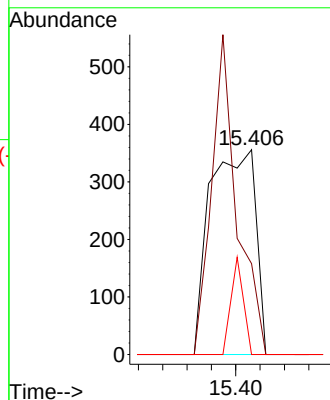
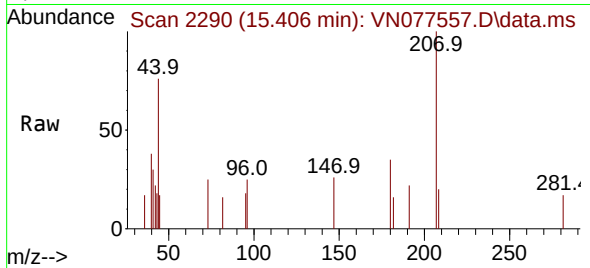




#93
1,2,4-Trichlorobenzene
Concen: 0.963 ug/l
RT: 15.406 min Scan# 21
Delta R.T. 0.035 min
Lab File: VN077557.D
Acq: 03 May 2023 12:54

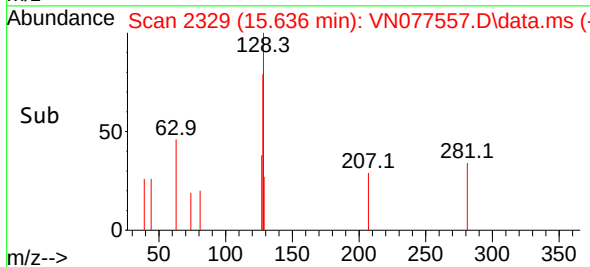
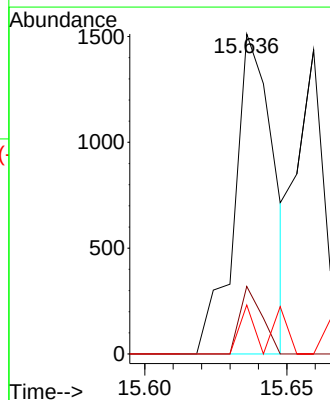
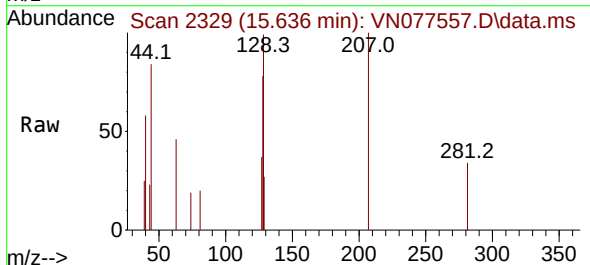
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#02

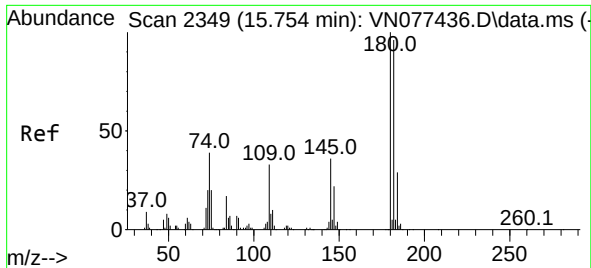
Tgt Ion:180 Resp: 463
Ion Ratio Lower Upper
180 100
182 86.6 46.1 138.2
145 13.0 16.6 49.8#



#95
Naphthalene
Concen: 1.282 ug/l
RT: 15.636 min Scan# 2329
Delta R.T. 0.047 min
Lab File: VN077557.D
Acq: 03 May 2023 12:54

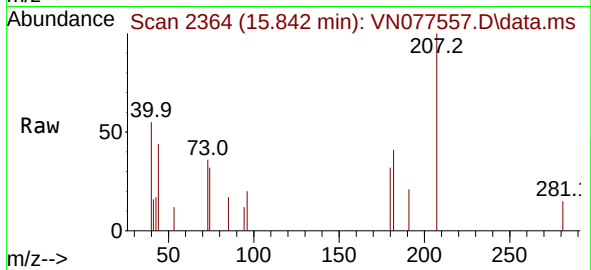
Tgt Ion:128 Resp: 1459
Ion Ratio Lower Upper
128 100
127 11.9 10.0 15.0
129 11.0 8.7 13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 0.623 ug/l
 RT: 15.842 min Scan# 21
 Delta R.T. 0.088 min
 Lab File: VN077557.D
 Acq: 03 May 2023 12:54

Instrument :
 MSVOA_N
 ClientSampleId :
 PB152533ZHE#02



Tgt Ion:	180	Resp:	382
Ion	Ratio	Lower	Upper
180	100		
182	153.4	46.2	138.6#
145	23.3	17.5	52.6

