

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050323\
 Data File : VN077560.D
 Acq On : 03 May 2023 14:07
 Operator : JC\MD
 Sample : PB152533ZHE#05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB152533ZHE#05

Quant Time: May 04 04:46:14 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)

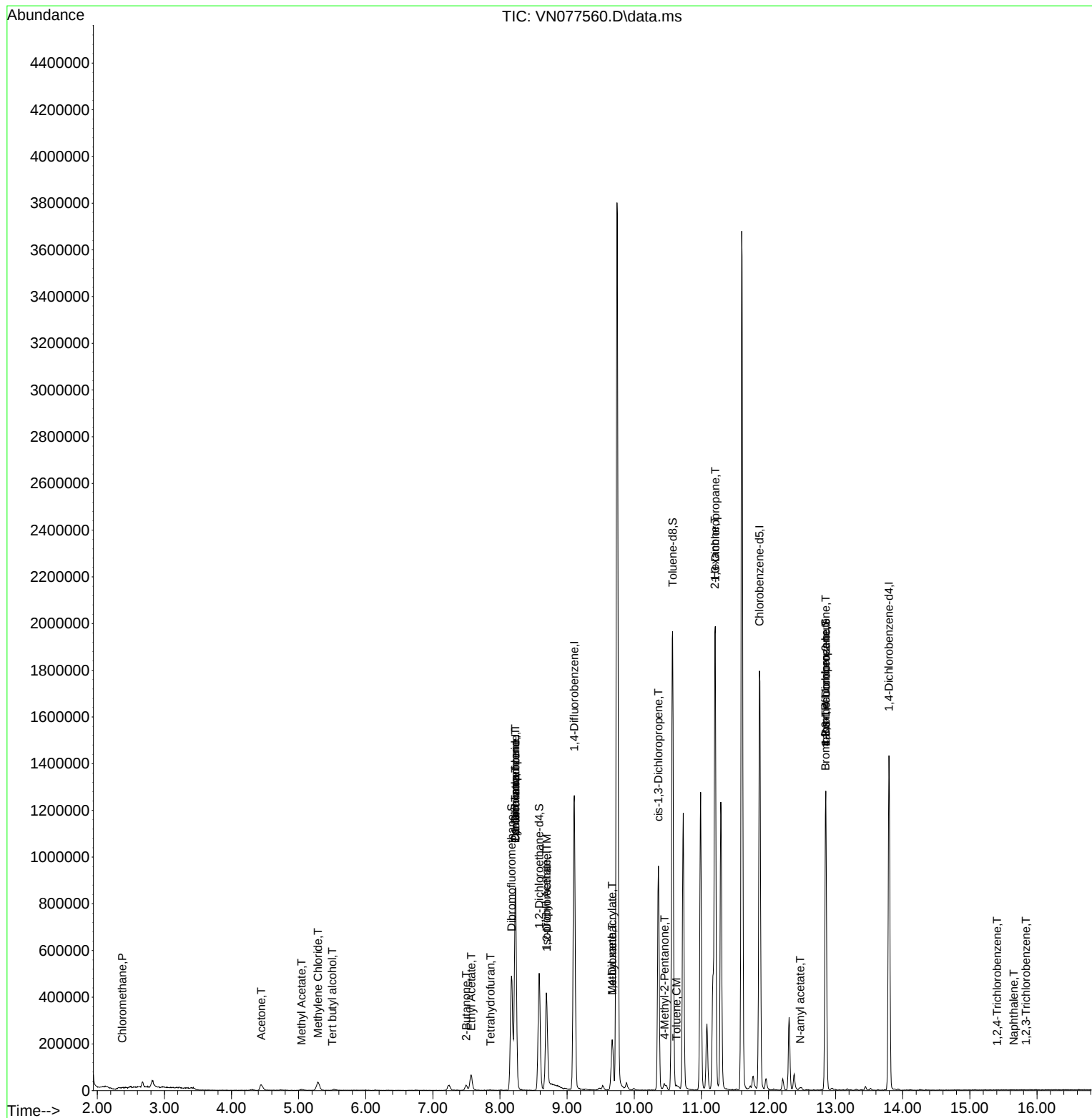
Internal Standards						
1) Pentafluorobenzene	8.231	168	614096	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	1169892	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	1111038	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	392382	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	411973	51.412	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 102.820%	
35) Dibromofluoromethane	8.172	113	359794	51.169	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.340%	
50) Toluene-d8	10.572	98	1465652	54.386	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 108.780%	
62) 4-Bromofluorobenzene	12.854	95	470042	53.310	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 106.620%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.372	50	1497	0.243	ug/l #	42
11) Tert butyl alcohol	5.501	59	1091	0.848	ug/l #	72
16) Acetone	4.443	43	46271	18.150	ug/l	95
18) Methyl Acetate	5.043	43	8800	0.894	ug/l #	76
20) Methylene Chloride	5.290	84	32656	4.039	ug/l	91
25) 2-Butanone	7.495	43	32294	8.931	ug/l	97
29) Tetrahydrofuran	7.860	42	1384	0.611	ug/l #	77
31) Cyclohexane	8.231	56	14271	1.257	ug/l #	31
36) 1,1-Dichloropropene	8.231	75	54233	5.339	ug/l #	48
37) Ethyl Acetate	7.572	43	94347	12.222	ug/l	96
38) Carbon Tetrachloride	8.231	117	69903	6.237	ug/l #	16
42) 1,2-Dichloroethane	8.695	62	3448	0.324	ug/l	77
43) Isopropyl Acetate	8.689	43	469734	35.174	ug/l #	88
48) Methyl methacrylate	9.672	41	11738	1.931	ug/l #	33
49) 1,4-Dioxane	9.672	88	141	0.925	ug/l #	1
51) 4-Methyl-2-Pentanone	10.454	43	17999	2.298	ug/l	97
52) Toluene	10.630	92	4706	0.232	ug/l	96
54) cis-1,3-Dichloropropene	10.360	75	204207	16.284	ug/l #	59
57) 1,3-Dichloropropane	11.207	76	24840	1.913	ug/l #	42
59) 2-Hexanone	11.201	43	240844	42.300	ug/l #	53
71) Bromoform	12.848	173	2391	0.427	ug/l #	28
74) N-amyl acetate	12.471	43	8938	0.829	ug/l #	45
76) 1,2,3-Trichloropropane	12.854	75	242638	26.592	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	242638	75.127	ug/l #	15
93) 1,2,4-Trichlorobenzene	15.407	180	75	0.824	ug/l #	45
95) Naphthalene	15.654	128	1105	1.246	ug/l #	76
96) 1,2,3-Trichlorobenzene	15.836	180	141	0.527	ug/l #	69

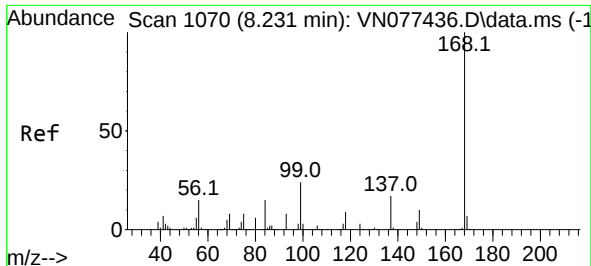
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050323\
Data File : VN077560.D
Acq On : 03 May 2023 14:07
Operator : JC\MD
Sample : PB152533ZHE#05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#05

Quant Time: May 04 04:46:14 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

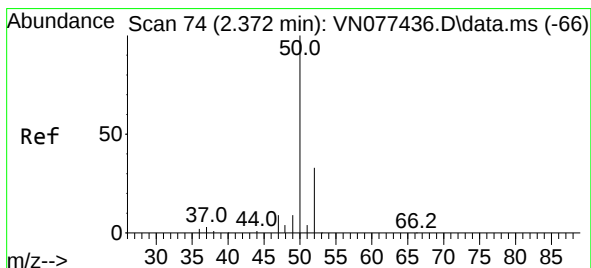
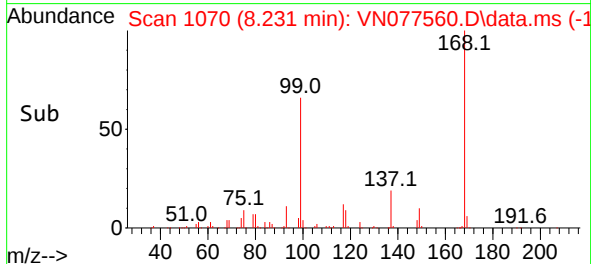
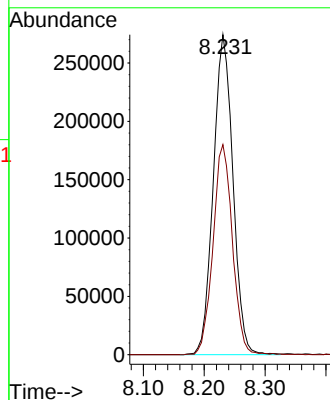
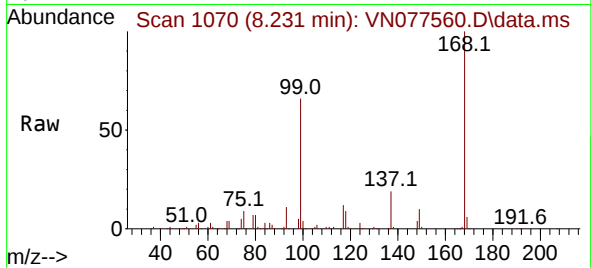




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VN077560.D
Acq: 03 May 2023 14:07

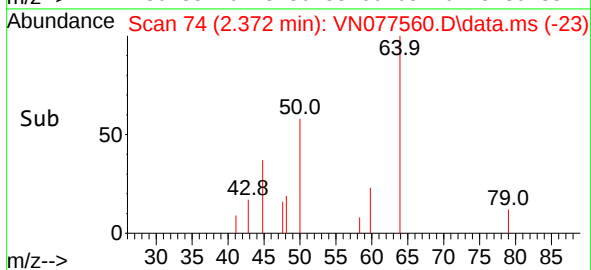
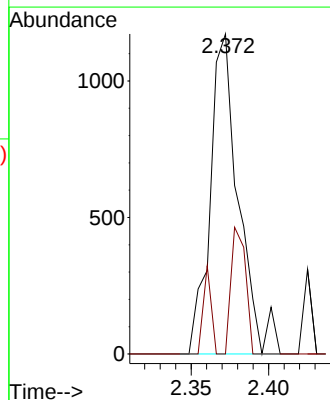
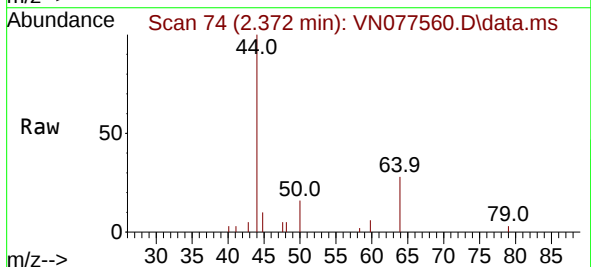
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#05

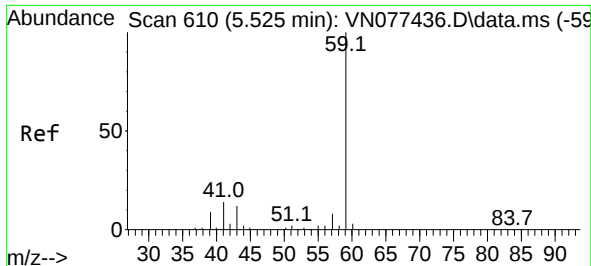
Tgt Ion:168 Resp: 614096
Ion Ratio Lower Upper
168 100
99 65.6 53.0 79.6



#3
Chloromethane
Concen: 0.243 ug/l
RT: 2.372 min Scan# 74
Delta R.T. -0.000 min
Lab File: VN077560.D
Acq: 03 May 2023 14:07

Tgt Ion: 50 Resp: 1497
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#





#11

Tert butyl alcohol

Concen: 0.848 ug/l

RT: 5.501 min Scan# 610

Delta R.T. -0.024 min

Lab File: VN077560.D

Acq: 03 May 2023 14:07

Instrument :

MSVOA_N

ClientSampleId :

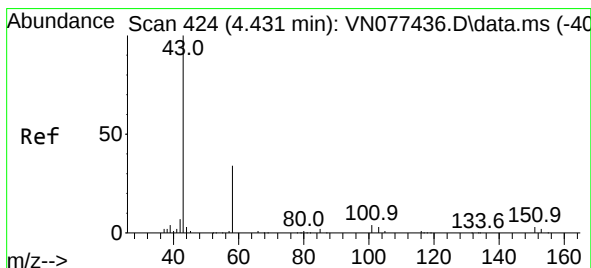
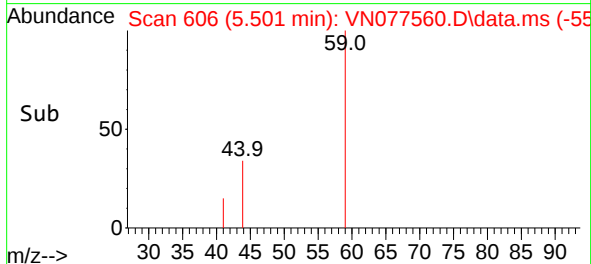
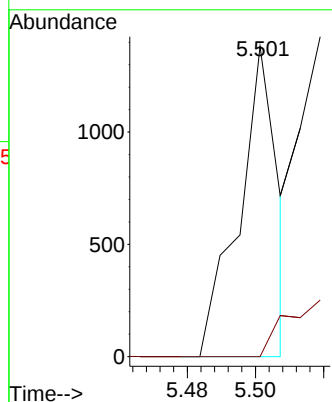
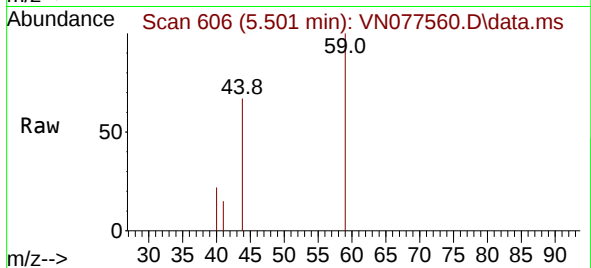
PB152533ZHE#05

Tgt Ion: 59 Resp: 1091

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#16

Acetone

Concen: 18.150 ug/l

RT: 4.443 min Scan# 426

Delta R.T. 0.012 min

Lab File: VN077560.D

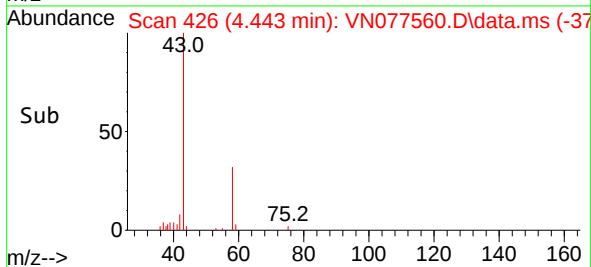
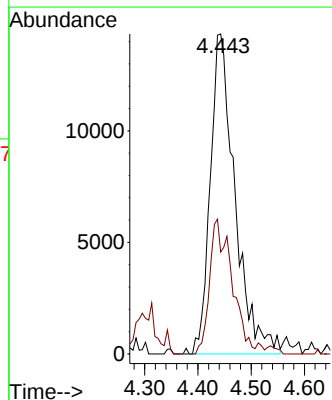
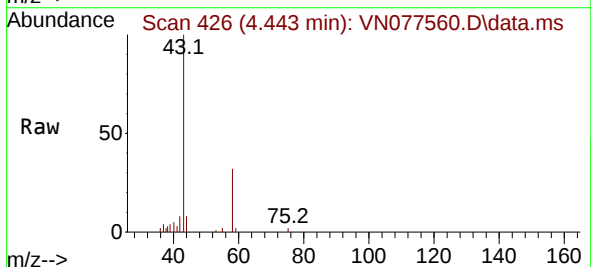
Acq: 03 May 2023 14:07

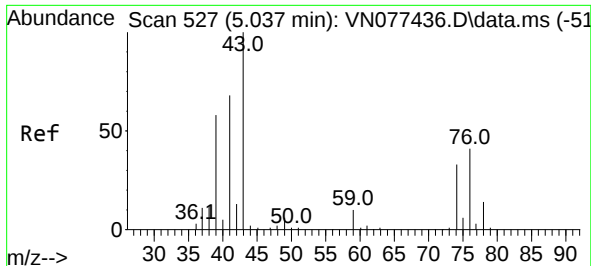
Tgt Ion: 43 Resp: 46271

Ion Ratio Lower Upper

43 100

58 31.9 28.0 42.0

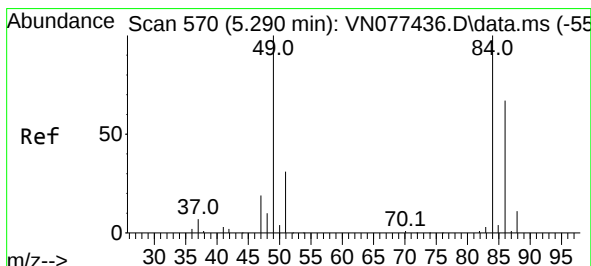
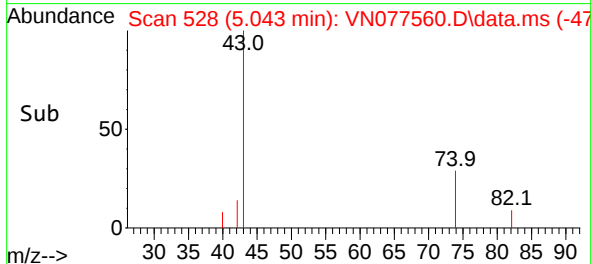
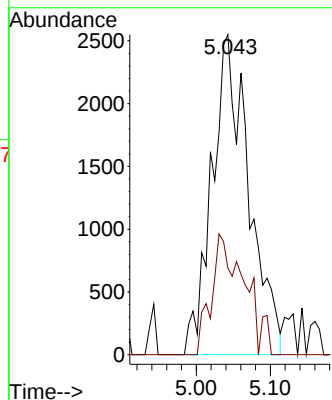
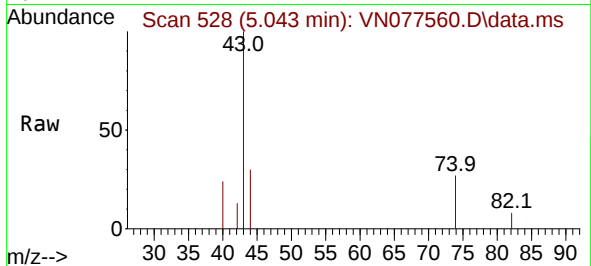




#18
Methyl Acetate
Concen: 0.894 ug/l
RT: 5.043 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN077560.D
Acq: 03 May 2023 14:07

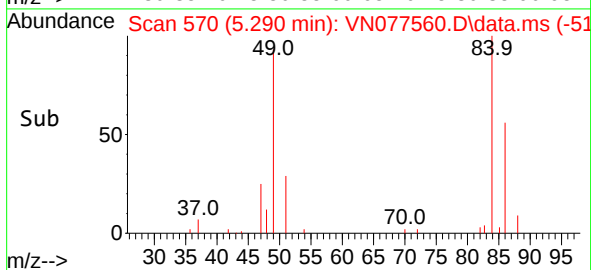
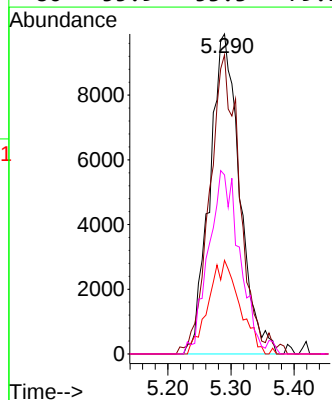
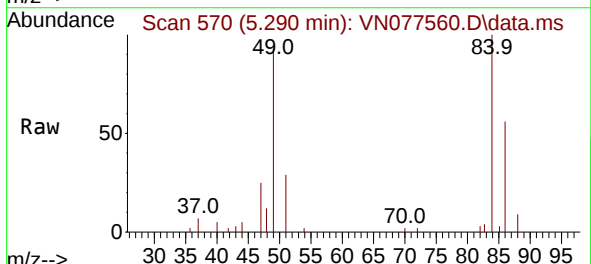
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#05

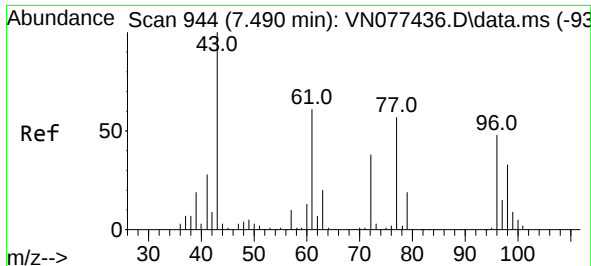
Tgt Ion: 43 Resp: 8800
Ion Ratio Lower Upper
43 100
74 19.3 26.2 39.4#



#20
Methylene Chloride
Concen: 4.039 ug/l
RT: 5.290 min Scan# 570
Delta R.T. -0.000 min
Lab File: VN077560.D
Acq: 03 May 2023 14:07

Tgt Ion: 84 Resp: 32656
Ion Ratio Lower Upper
84 100
49 91.2 79.7 119.5
51 29.3 25.2 37.8
86 55.9 53.3 79.9

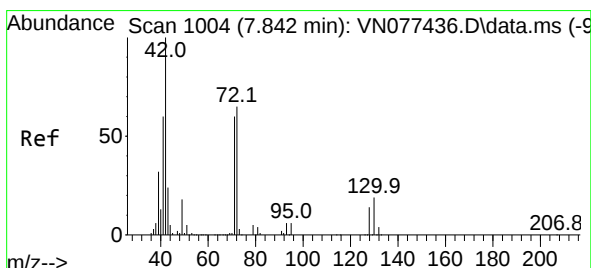
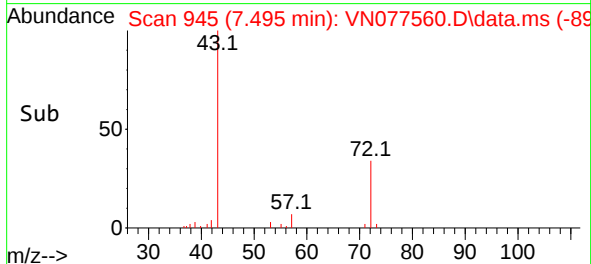
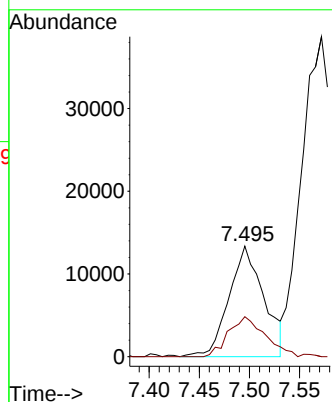
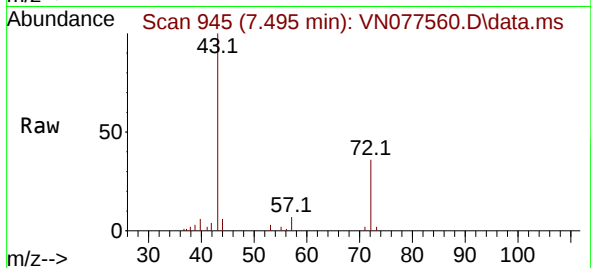




#25
2-Butanone
Concen: 8.931 ug/l
RT: 7.495 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN077560.D
Acq: 03 May 2023 14:07

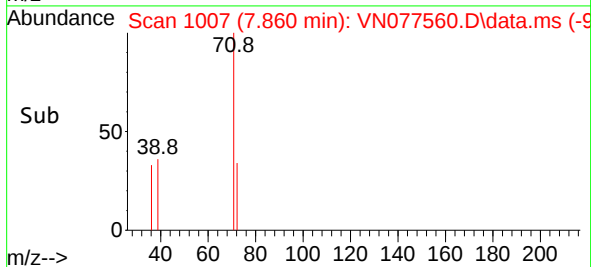
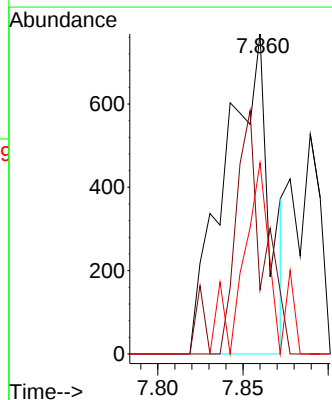
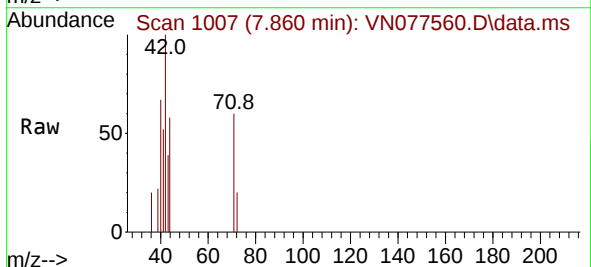
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#05

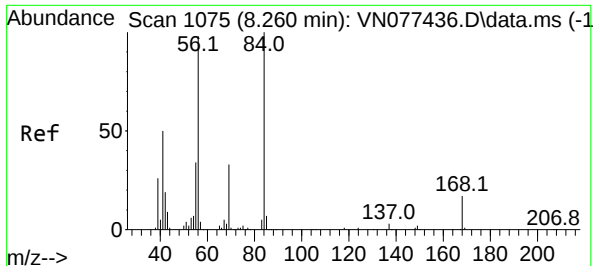
Tgt Ion: 43 Resp: 32294
Ion Ratio Lower Upper
43 100
72 36.1 30.2 45.2



#29
Tetrahydrofuran
Concen: 0.611 ug/l
RT: 7.860 min Scan# 1007
Delta R.T. 0.018 min
Lab File: VN077560.D
Acq: 03 May 2023 14:07

Tgt Ion: 42 Resp: 1384
Ion Ratio Lower Upper
42 100
72 46.1 49.8 74.6#
71 39.6 47.4 71.2#

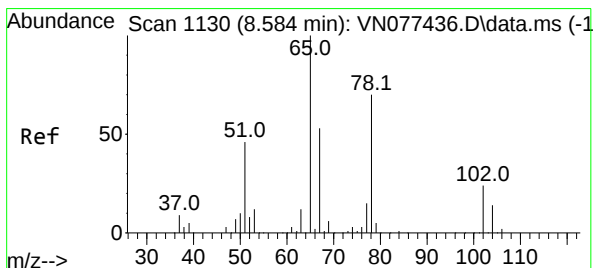
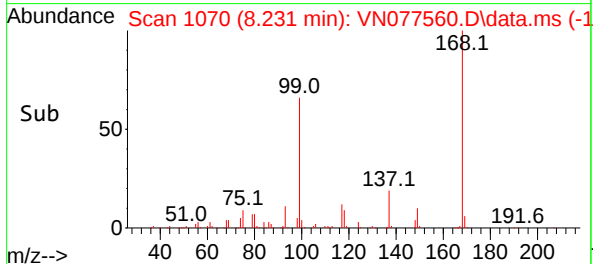
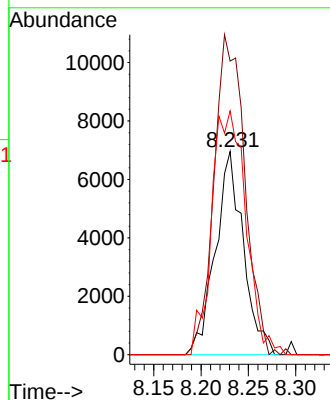
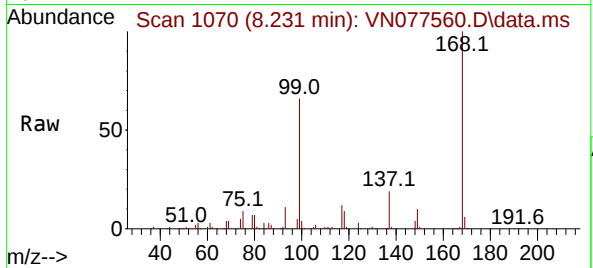




#31
Cyclohexane
Concen: 1.257 ug/l
RT: 8.231 min Scan# 1075
Delta R.T. -0.029 min
Lab File: VN077560.D
Acq: 03 May 2023 14:07

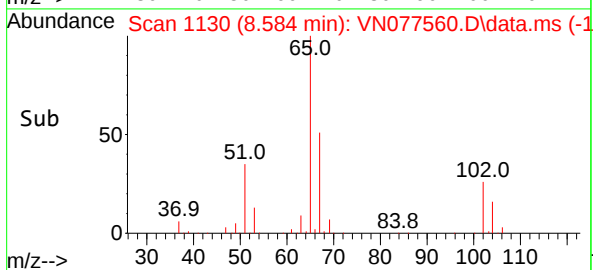
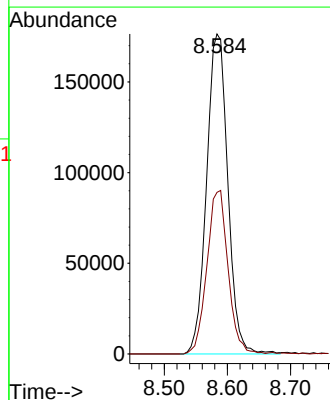
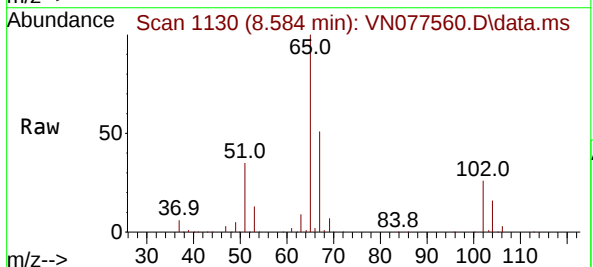
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#05

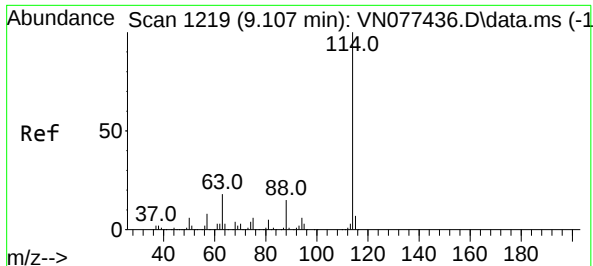
Tgt Ion: 56 Resp: 14271
Ion Ratio Lower Upper
56 100
69 144.4 26.8 40.2#
84 130.7 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 51.412 ug/l
RT: 8.584 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN077560.D
Acq: 03 May 2023 14:07

Tgt Ion: 65 Resp: 411973
Ion Ratio Lower Upper
65 100
67 50.8 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN077560.D

Acq: 03 May 2023 14:07

Instrument :

MSVOA_N

ClientSampleId :

PB152533ZHE#05

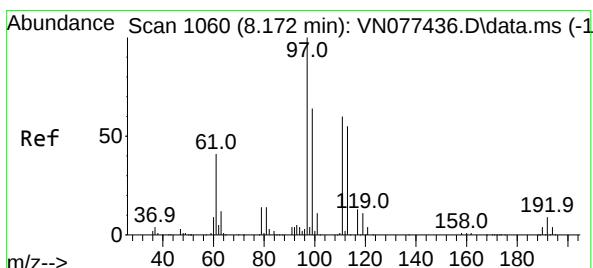
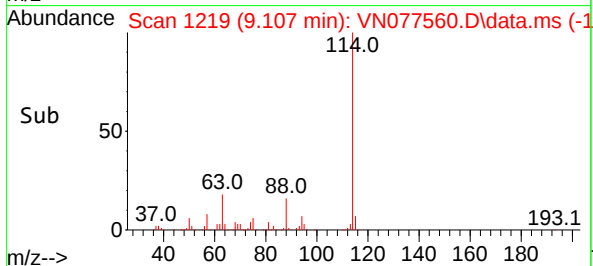
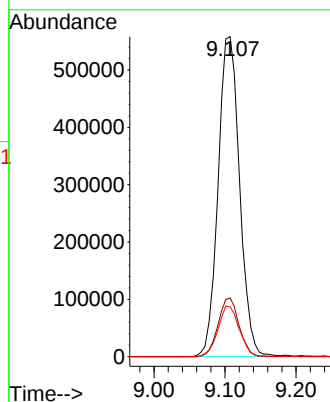
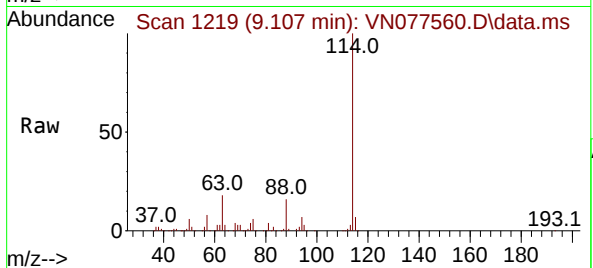
Tgt Ion:114 Resp: 1169892

Ion Ratio Lower Upper

114 100

63 18.4 0.0 36.4

88 15.6 0.0 30.6



#35

Dibromofluoromethane

Concen: 51.169 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. -0.000 min

Lab File: VN077560.D

Acq: 03 May 2023 14:07

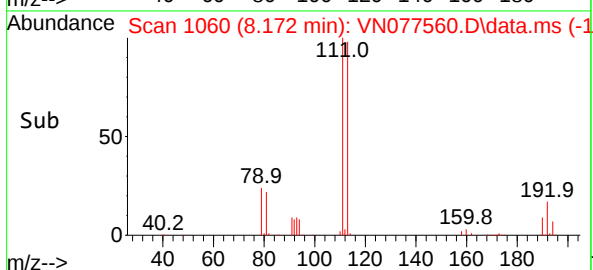
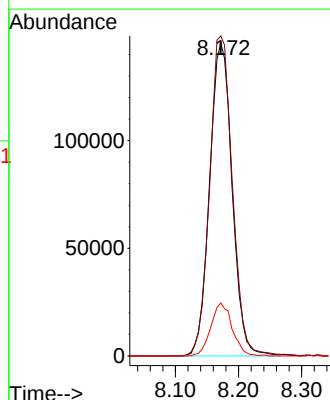
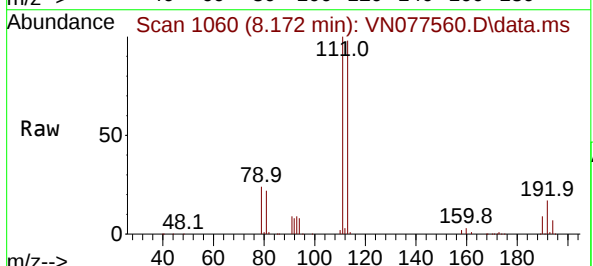
Tgt Ion:113 Resp: 359794

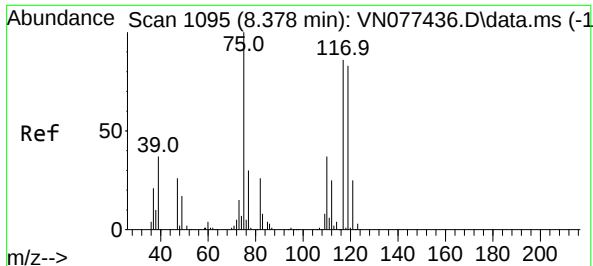
Ion Ratio Lower Upper

113 100

111 103.3 82.6 123.8

192 16.1 12.7 19.1





#36

1,1-Dichloropropene

Concen: 5.339 ug/l

RT: 8.231 min Scan# 110

Delta R.T. -0.147 min

Lab File: VN077560.D

Acq: 03 May 2023 14:07

Instrument :

MSVOA_N

ClientSampleId :

PB152533ZHE#05

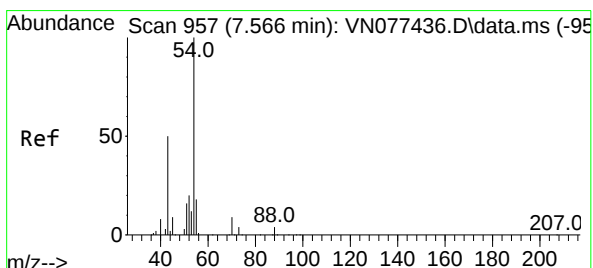
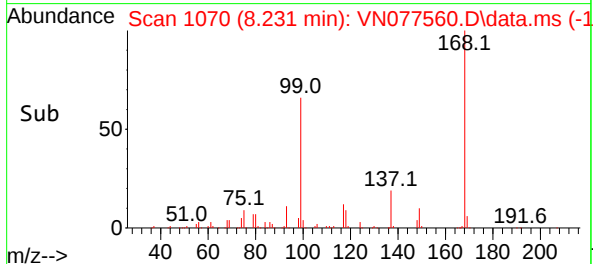
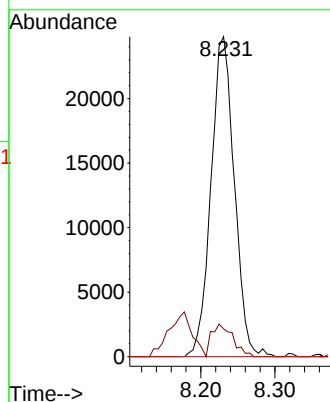
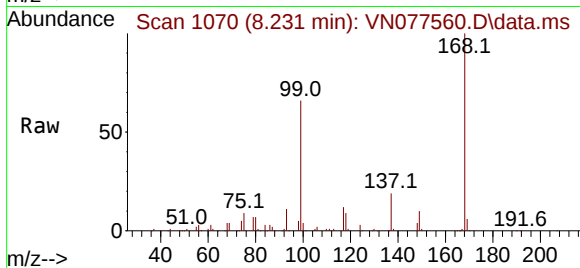
Tgt Ion: 75 Resp: 54233

Ion Ratio Lower Upper

75 100

110 9.3 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 12.222 ug/l

RT: 7.572 min Scan# 958

Delta R.T. 0.006 min

Lab File: VN077560.D

Acq: 03 May 2023 14:07

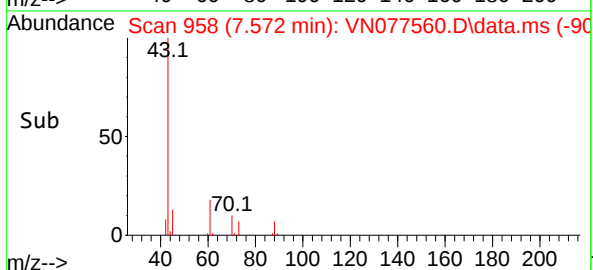
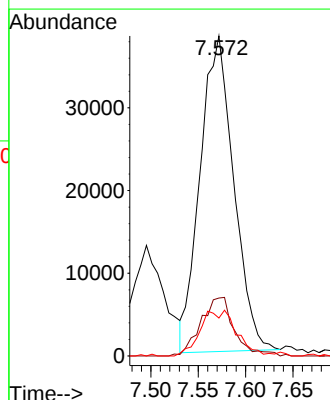
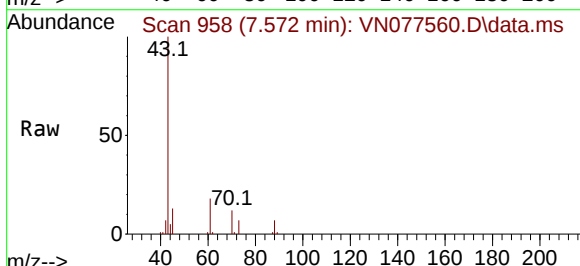
Tgt Ion: 43 Resp: 94347

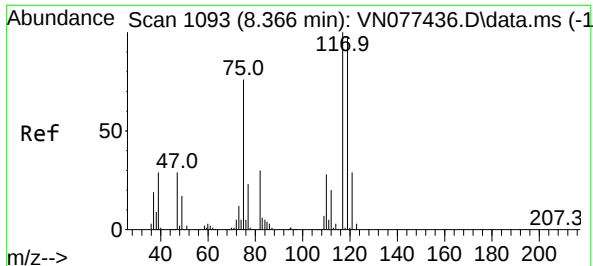
Ion Ratio Lower Upper

43 100

61 18.4 13.2 19.8

70 15.7 11.3 16.9

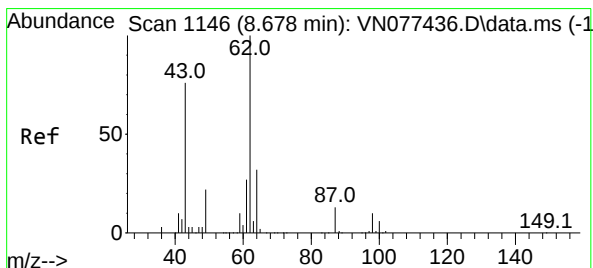
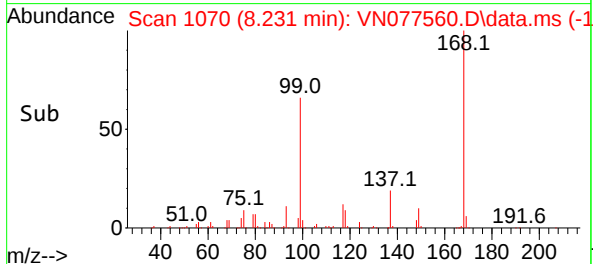
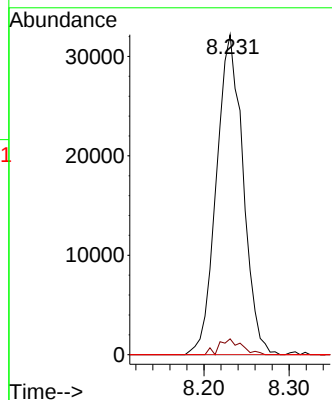
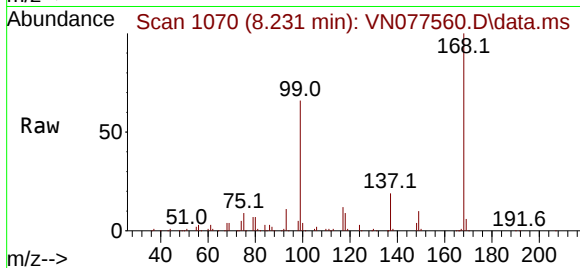




#38
Carbon Tetrachloride
Concen: 6.237 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.135 min
Lab File: VN077560.D
Acq: 03 May 2023 14:07

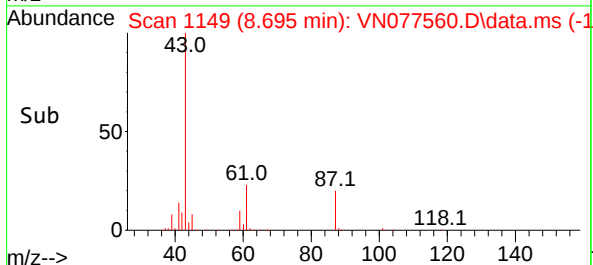
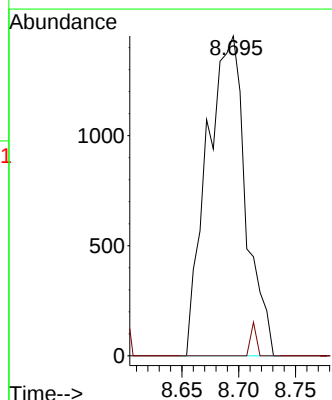
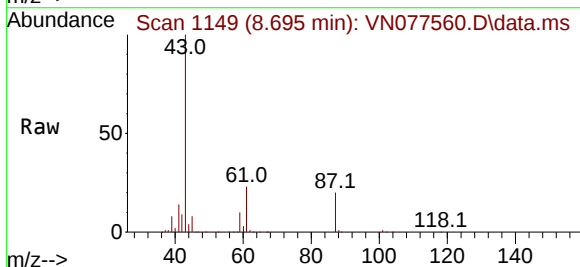
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#05

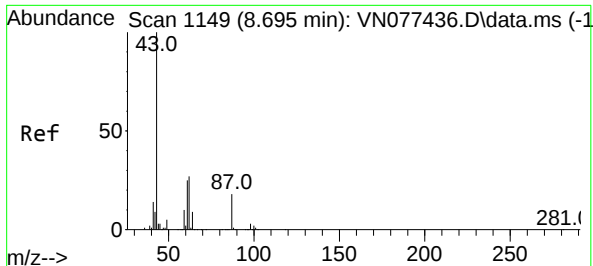
Tgt Ion:117 Resp: 69903
Ion Ratio Lower Upper
117 100
119 5.0 77.3 115.9#
121 0.0 23.3 34.9#



#42
1,2-Dichloroethane
Concen: 0.324 ug/l
RT: 8.695 min Scan# 1149
Delta R.T. 0.018 min
Lab File: VN077560.D
Acq: 03 May 2023 14:07

Tgt Ion: 62 Resp: 3448
Ion Ratio Lower Upper
62 100
98 1.6 0.0 19.8





#43

Isopropyl Acetate

Concen: 35.174 ug/l

RT: 8.689 min Scan# 1149

Delta R.T. -0.006 min

Lab File: VN077560.D

Acq: 03 May 2023 14:07

Instrument :

MSVOA_N

ClientSampleId :

PB152533ZHE#05

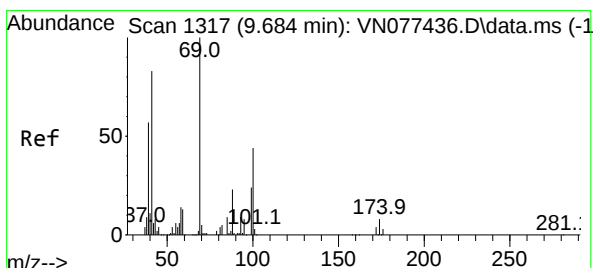
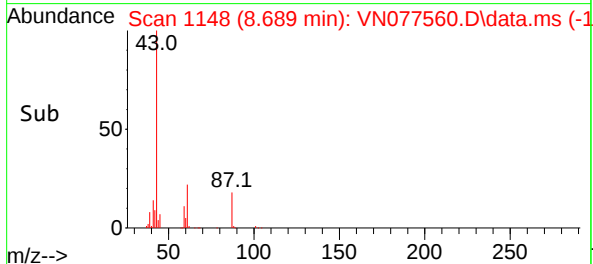
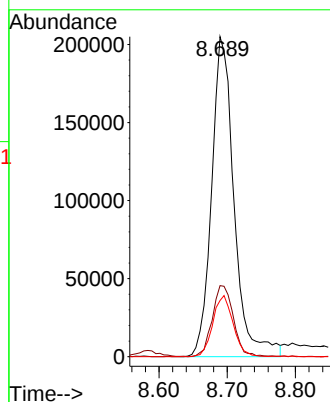
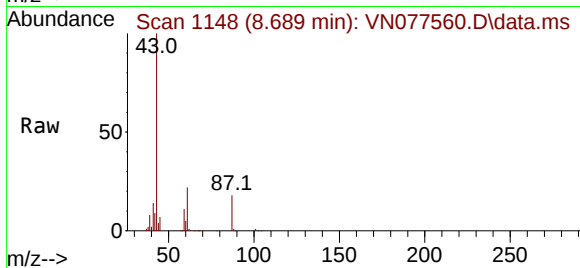
Tgt Ion: 43 Resp: 469734

Ion Ratio Lower Upper

43 100

61 21.0 24.7 37.1#

87 17.3 14.6 21.8



#48

Methyl methacrylate

Concen: 1.931 ug/l

RT: 9.672 min Scan# 1315

Delta R.T. -0.012 min

Lab File: VN077560.D

Acq: 03 May 2023 14:07

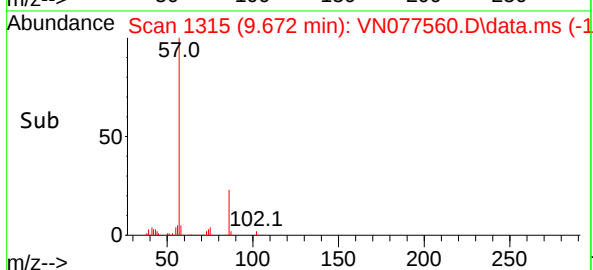
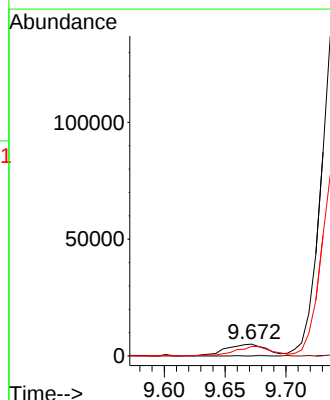
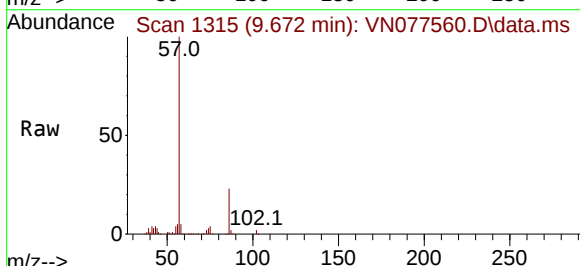
Tgt Ion: 41 Resp: 11738

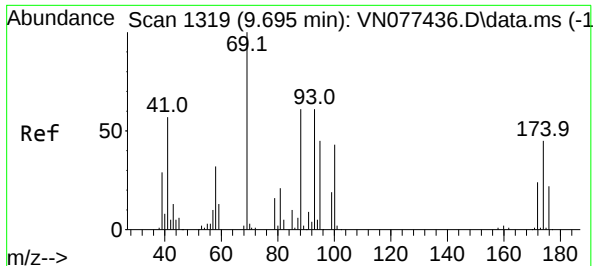
Ion Ratio Lower Upper

41 100

69 1.4 90.4 135.6#

39 73.1 54.6 81.8





#49

1,4-Dioxane

Concen: 0.925 ug/l

RT: 9.672 min Scan# 11

Delta R.T. -0.024 min

Lab File: VN077560.D

Acq: 03 May 2023 14:07

Instrument :

MSVOA_N

ClientSampleId :

PB152533ZHE#05

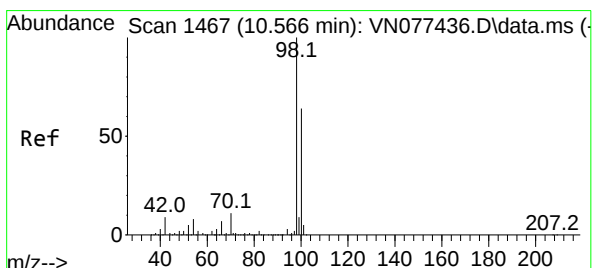
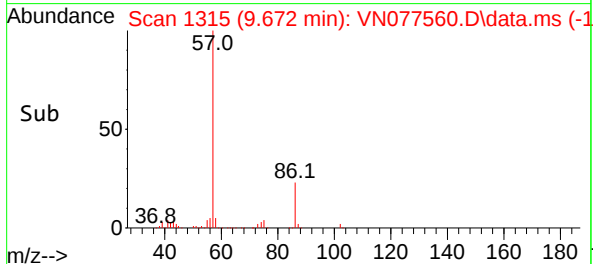
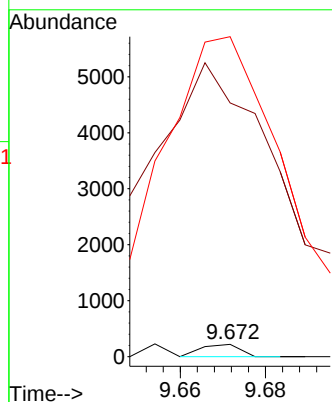
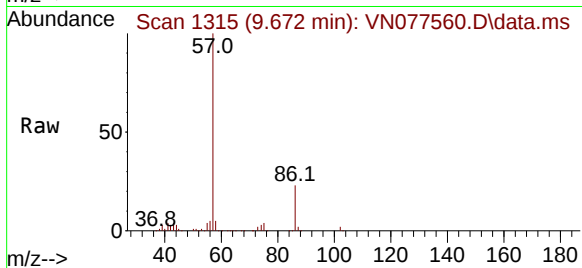
Tgt Ion: 88 Resp: 141

Ion Ratio Lower Upper

88 100

43 0.0 17.0 25.6#

58 8931.2 47.0 70.4#



#50

Toluene-d8

Concen: 54.386 ug/l

RT: 10.572 min Scan# 1468

Delta R.T. 0.006 min

Lab File: VN077560.D

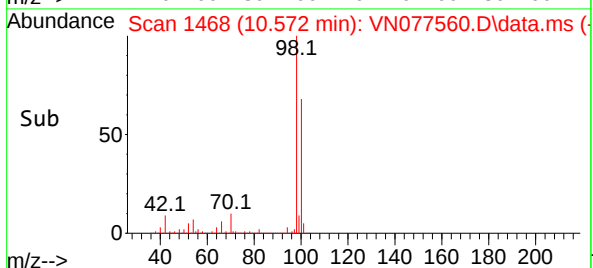
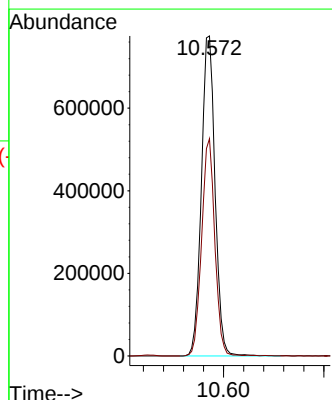
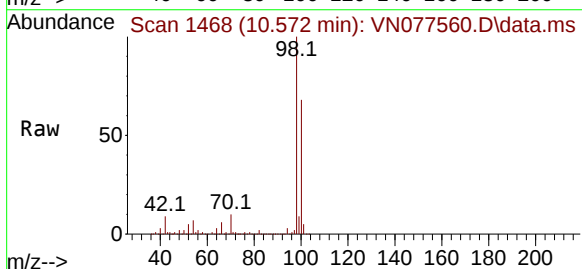
Acq: 03 May 2023 14:07

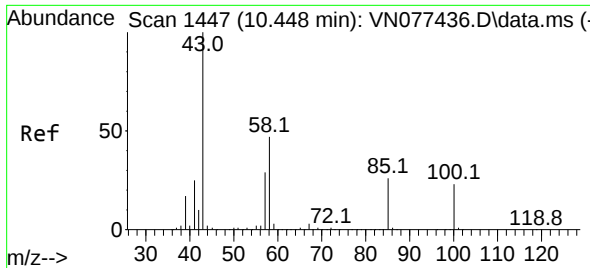
Tgt Ion: 98 Resp: 1465652

Ion Ratio Lower Upper

98 100

100 65.4 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 2.298 ug/l

RT: 10.454 min Scan# 1448

Delta R.T. 0.006 min

Lab File: VN077560.D

Acq: 03 May 2023 14:07

Instrument :

MSVOA_N

ClientSampleId :

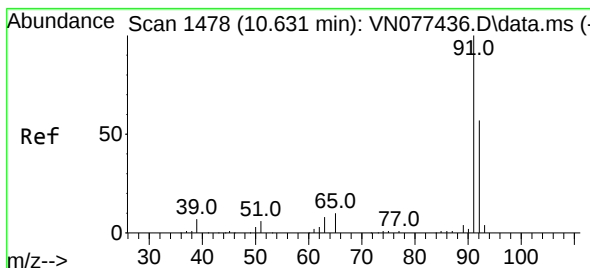
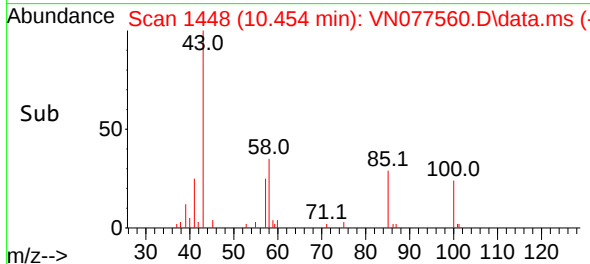
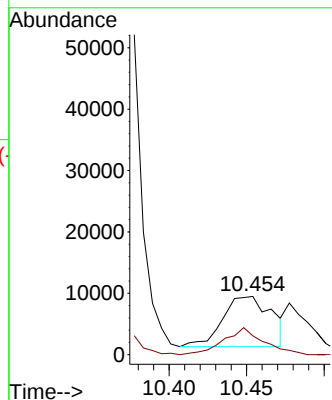
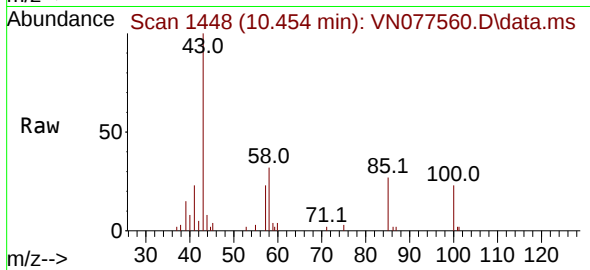
PB152533ZHE#05

Tgt Ion: 43 Resp: 17999

Ion Ratio Lower Upper

43 100

58 43.5 36.6 54.8



#52

Toluene

Concen: 0.232 ug/l

RT: 10.630 min Scan# 1478

Delta R.T. -0.000 min

Lab File: VN077560.D

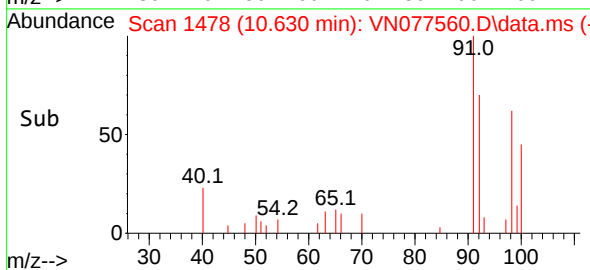
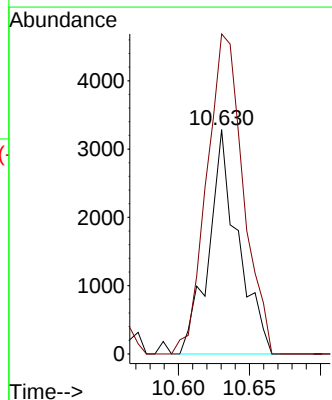
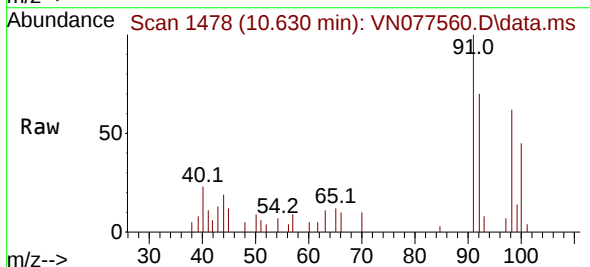
Acq: 03 May 2023 14:07

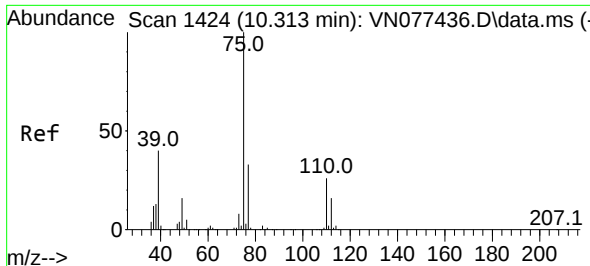
Tgt Ion: 92 Resp: 4706

Ion Ratio Lower Upper

92 100

91 177.8 137.4 206.0

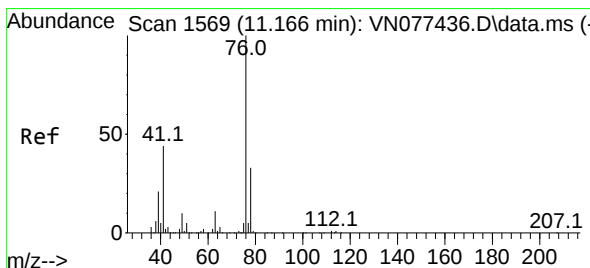
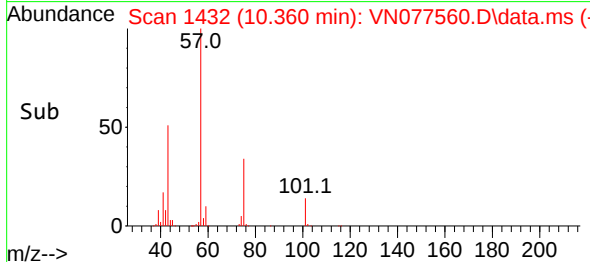
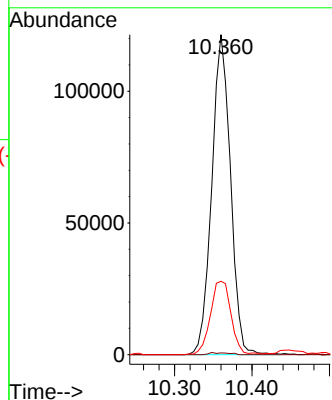
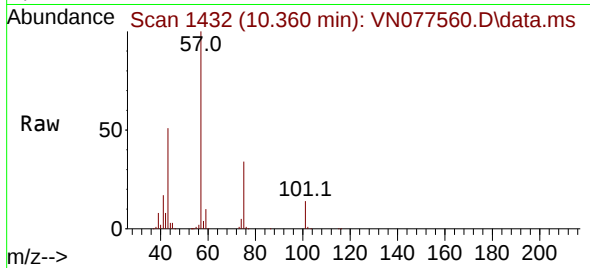




#54
 cis-1,3-Dichloropropene
 Concen: 16.284 ug/l
 RT: 10.360 min Scan# 1424
 Delta R.T. 0.047 min
 Lab File: VN077560.D
 Acq: 03 May 2023 14:07

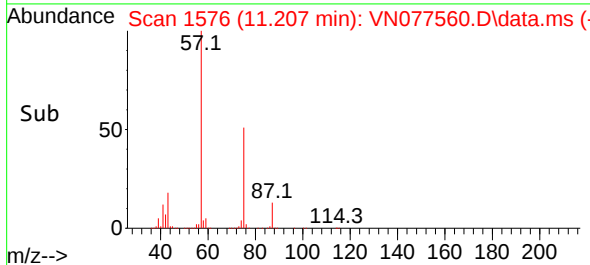
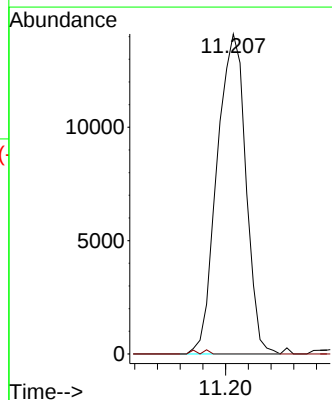
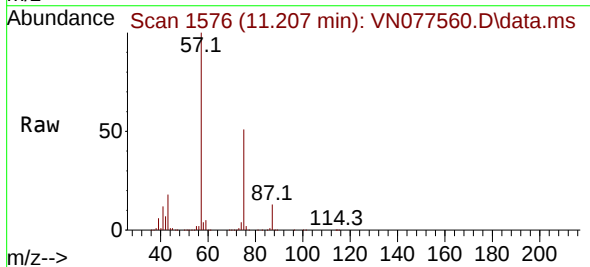
Instrument :
 MSVOA_N
 ClientSampleId :
 PB152533ZHE#05

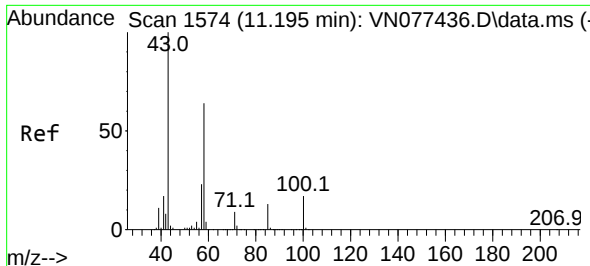
Tgt Ion: 75 Resp: 204207
 Ion Ratio Lower Upper
 75 100
 77 0.5 26.1 39.1#
 39 22.9 31.6 47.4#



#57
 1,3-Dichloropropane
 Concen: 1.913 ug/l
 RT: 11.207 min Scan# 1576
 Delta R.T. 0.041 min
 Lab File: VN077560.D
 Acq: 03 May 2023 14:07

Tgt Ion: 76 Resp: 24840
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#

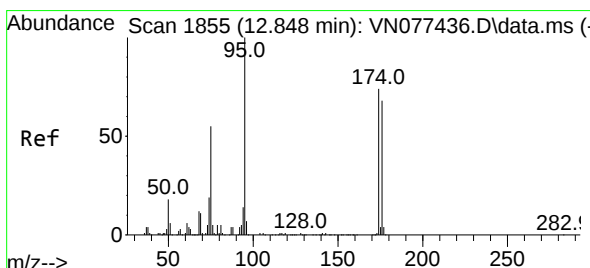
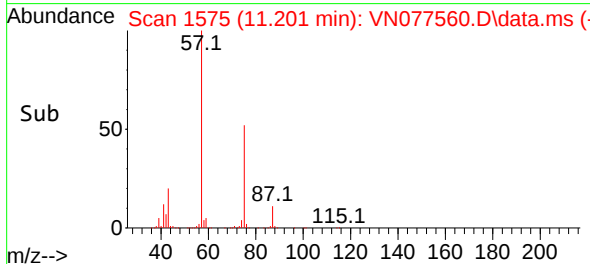
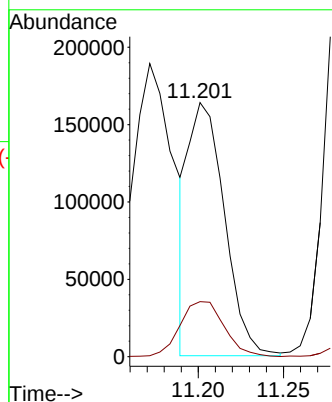
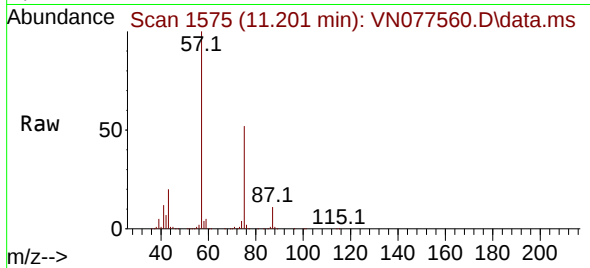




#59
2-Hexanone
Concen: 42.300 ug/l
RT: 11.201 min Scan# 111
Delta R.T. 0.006 min
Lab File: VN077560.D
Acq: 03 May 2023 14:07

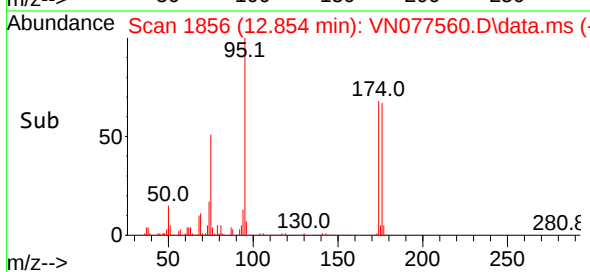
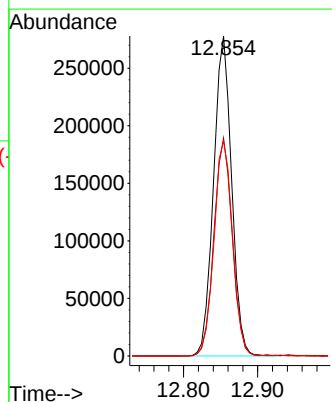
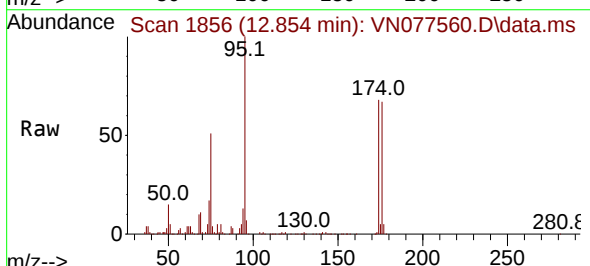
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#05

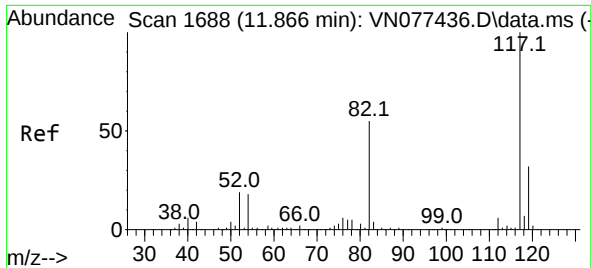
Tgt Ion: 43 Resp: 240844
Ion Ratio Lower Upper
43 100
58 26.9 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 53.310 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077560.D
Acq: 03 May 2023 14:07

Tgt Ion: 95 Resp: 470042
Ion Ratio Lower Upper
95 100
174 69.0 0.0 143.8
176 69.0 0.0 135.8

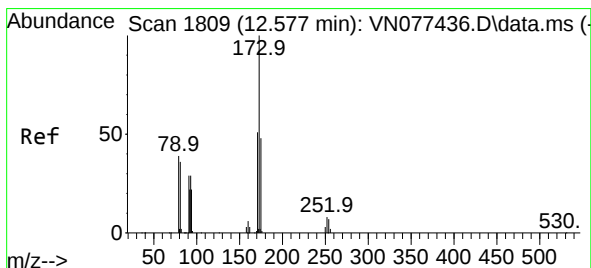
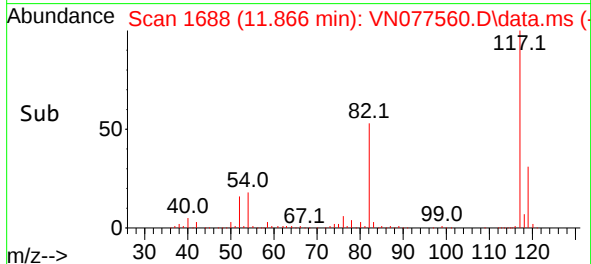
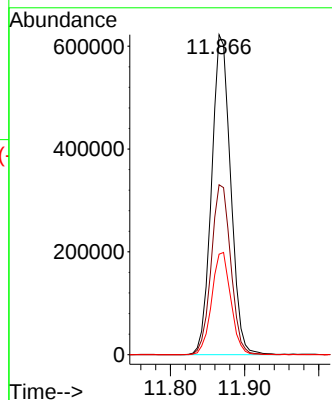
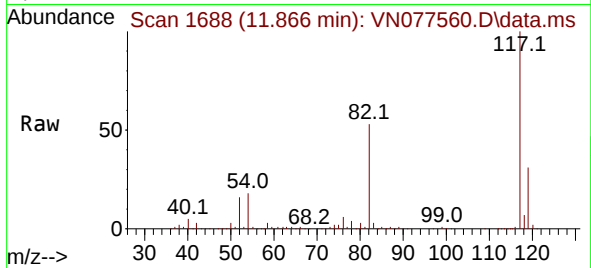




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 1111038
Delta R.T. -0.000 min
Lab File: VN077560.D
Acq: 03 May 2023 14:07

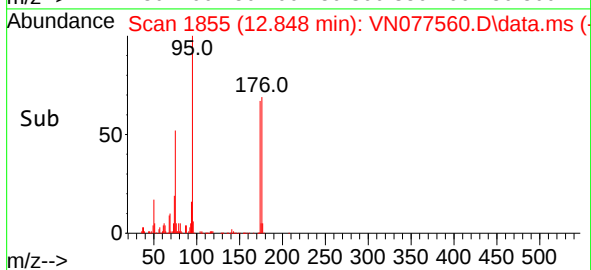
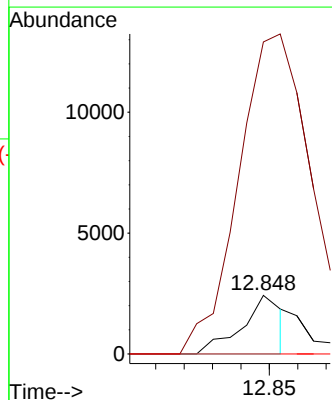
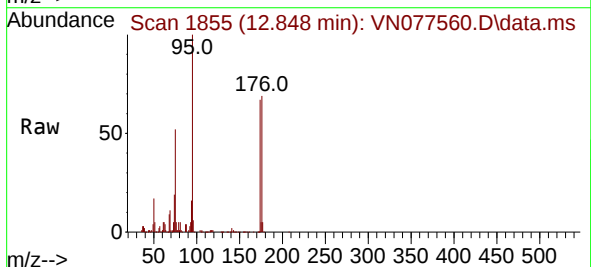
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#05

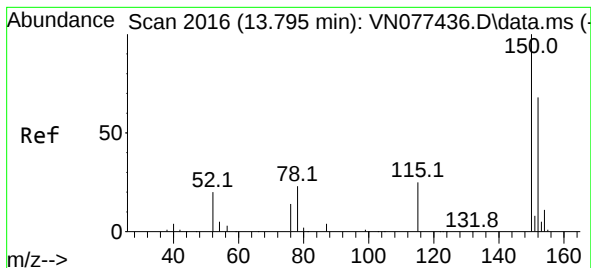
Tgt Ion:117 Resp: 1111038
Ion Ratio Lower Upper
117 100
82 53.1 44.0 66.0
119 31.4 25.6 38.4



#71
Bromoform
Concen: 0.427 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. 0.271 min
Lab File: VN077560.D
Acq: 03 May 2023 14:07

Tgt Ion:173 Resp: 2391
Ion Ratio Lower Upper
173 100
175 0.0 24.3 73.0#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.795 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN077560.D

Acq: 03 May 2023 14:07

Instrument :

MSVOA_N

ClientSampleId :

PB152533ZHE#05

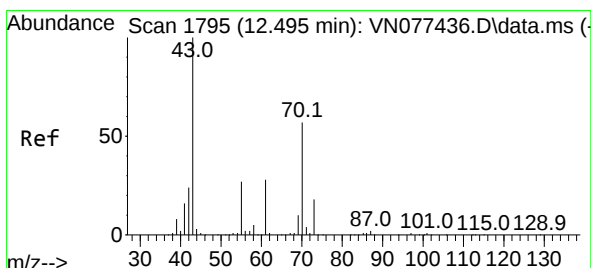
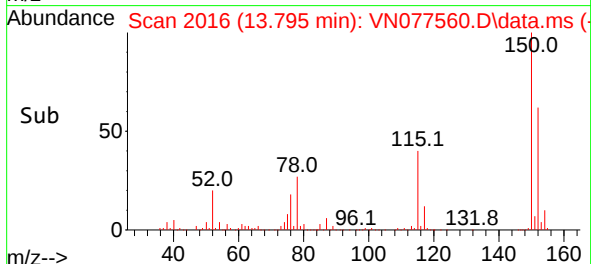
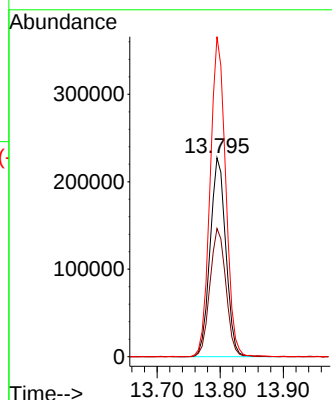
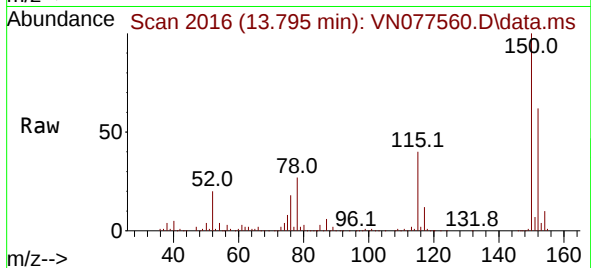
Tgt Ion:152 Resp: 392382

Ion Ratio Lower Upper

152 100

115 65.6 32.3 96.8

150 159.0 0.0 355.8



#74

N-ethyl acetate

Concen: 0.829 ug/l

RT: 12.471 min Scan# 1791

Delta R.T. -0.024 min

Lab File: VN077560.D

Acq: 03 May 2023 14:07

Tgt Ion: 43 Resp: 8938

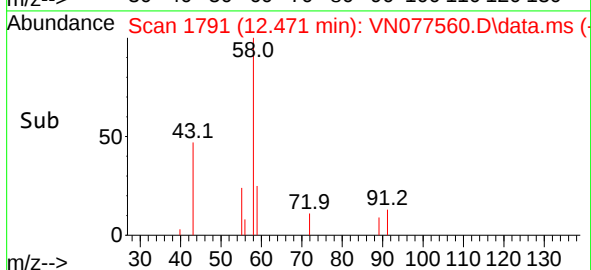
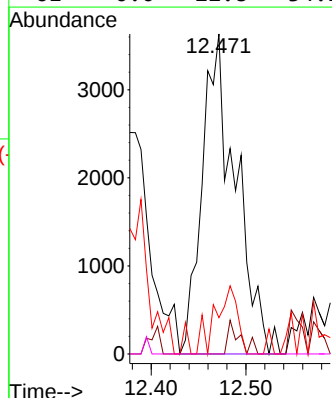
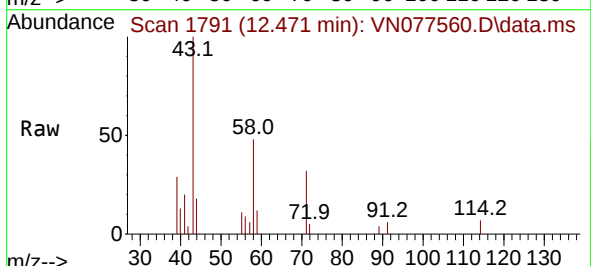
Ion Ratio Lower Upper

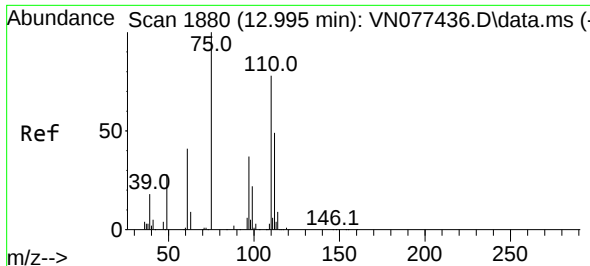
43 100

70 3.8 43.4 65.2#

55 14.1 21.4 32.0#

61 0.0 22.8 34.2#

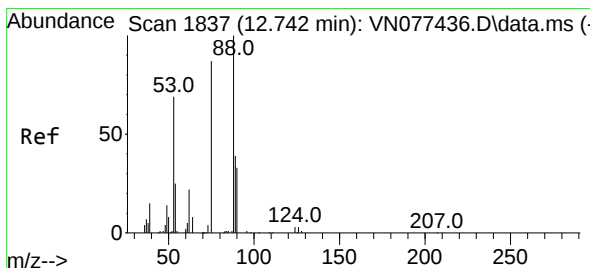
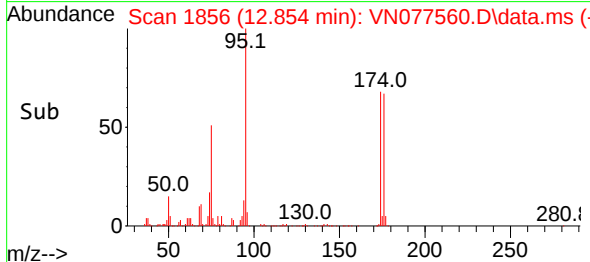
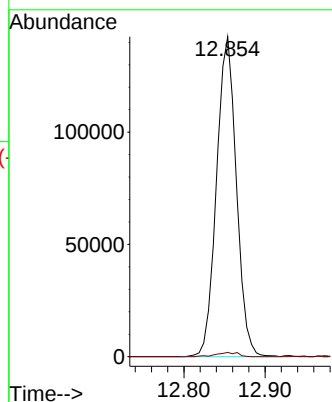
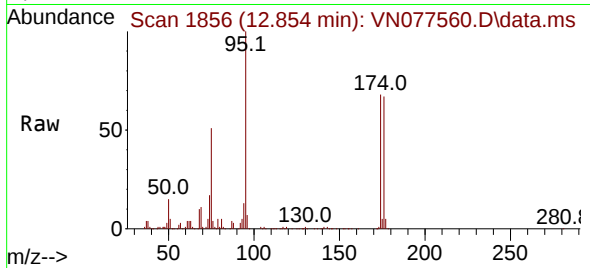




#76
1,2,3-Trichloropropane
Concen: 26.592 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN077560.D
Acq: 03 May 2023 14:07

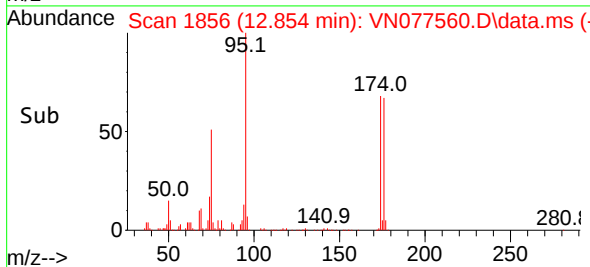
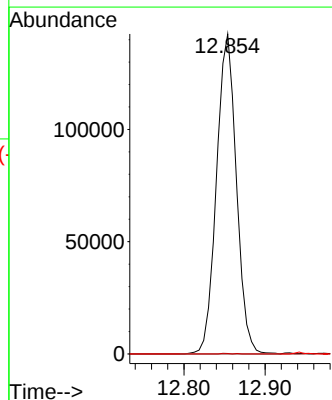
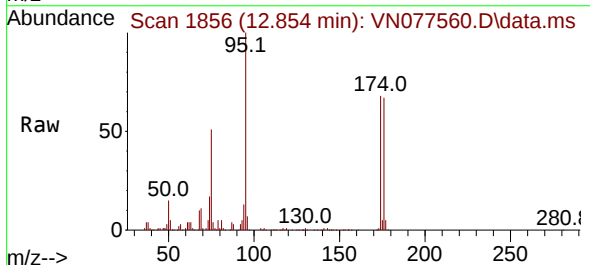
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#05

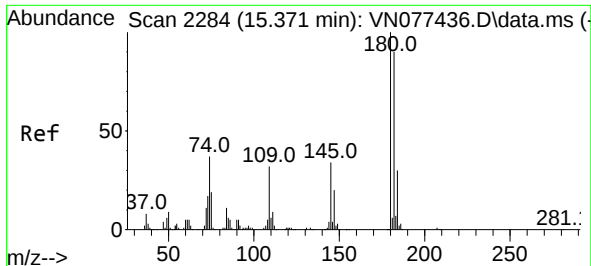
Tgt Ion: 75 Resp: 242638
Ion Ratio Lower Upper
75 100
77 1.4 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 75.127 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.112 min
Lab File: VN077560.D
Acq: 03 May 2023 14:07

Tgt Ion: 75 Resp: 242638
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#





#93

1,2,4-Trichlorobenzene

Concen: 0.824 ug/l

RT: 15.407 min Scan# 21

Delta R.T. 0.036 min

Lab File: VN077560.D

Acq: 03 May 2023 14:07

Instrument :

MSVOA_N

ClientSampleId :

PB152533ZHE#05

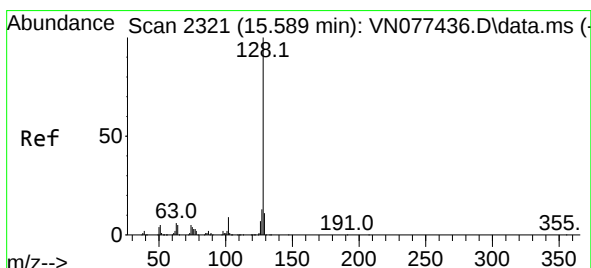
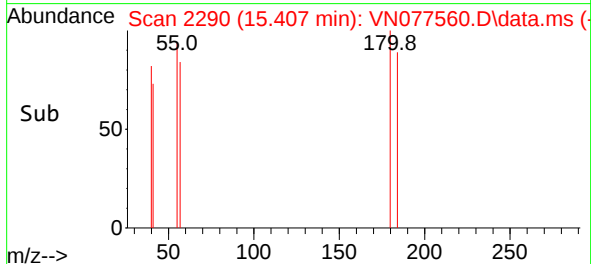
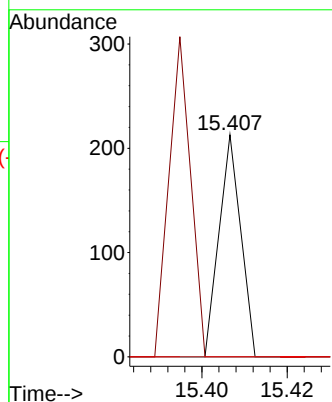
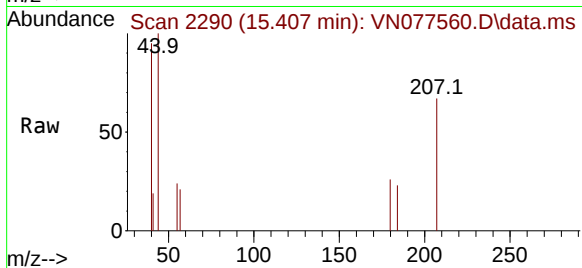
Tgt Ion:180 Resp: 75

Ion Ratio Lower Upper

180 100

182 144.0 46.1 138.2#

145 0.0 16.6 49.8#



#95

Naphthalene

Concen: 1.246 ug/l

RT: 15.654 min Scan# 2332

Delta R.T. 0.065 min

Lab File: VN077560.D

Acq: 03 May 2023 14:07

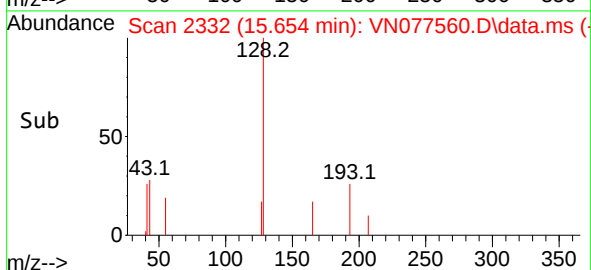
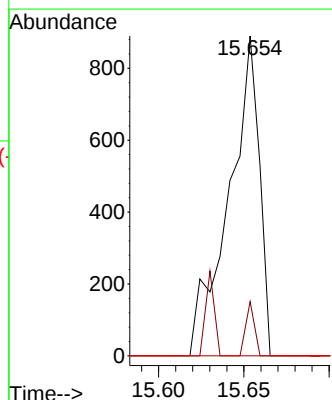
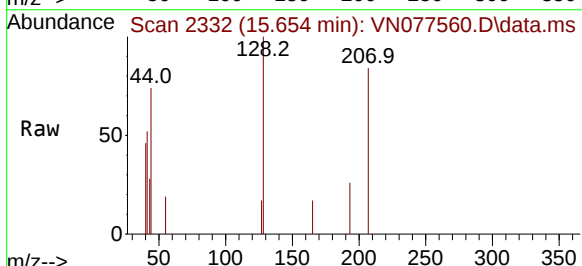
Tgt Ion:128 Resp: 1105

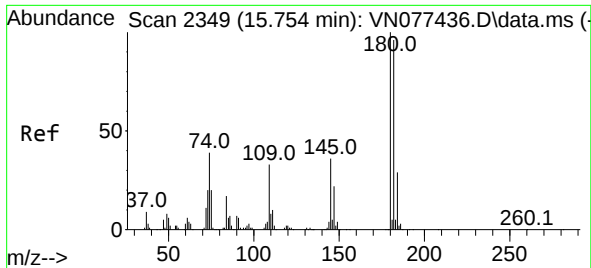
Ion Ratio Lower Upper

128 100

127 4.8 10.0 15.0#

129 0.0 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.527 ug/l
 RT: 15.836 min Scan# 21
 Delta R.T. 0.082 min
 Lab File: VN077560.D
 Acq: 03 May 2023 14:07

Instrument :
 MSVOA_N
 ClientSampleId :
 PB152533ZHE#05

Tgt Ion	Ratio	Lower	Upper
180	100		
182	73.8	46.2	138.6
145	0.0	17.5	52.6

