

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050323\
 Data File : VN077561.D
 Acq On : 03 May 2023 14:31
 Operator : JC\MD
 Sample : PB152533ZHE#06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB152533ZHE#06

Quant Time: May 04 04:46:47 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)

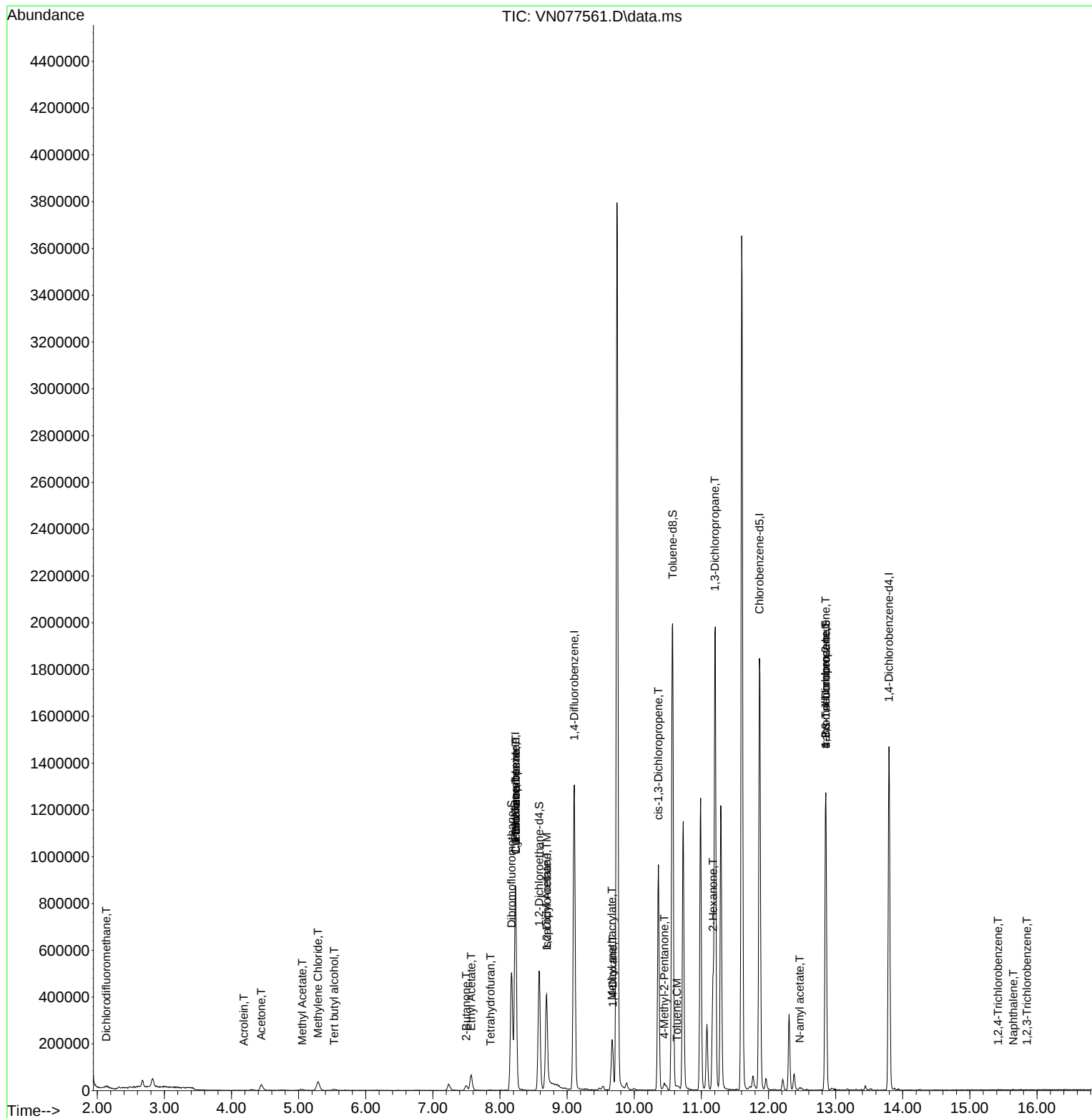
Internal Standards						
1) Pentafluorobenzene	8.231	168	630357	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	1206881	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	1151010	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	408700	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	419366	50.984	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 101.960%	
35) Dibromofluoromethane	8.172	113	371345	51.193	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.380%	
50) Toluene-d8	10.572	98	1520709	54.700	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 109.400%	
62) 4-Bromofluorobenzene	12.854	95	486430	53.478	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 106.960%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.137	85	84	0.320	ug/l #	43
11) Tert butyl alcohol	5.531	59	8606	6.517	ug/l #	81
13) Acrolein	4.184	56	294	0.224	ug/l #	16
16) Acetone	4.443	43	45106	17.237	ug/l	96
18) Methyl Acetate	5.054	43	9768	0.967	ug/l	98
20) Methylene Chloride	5.290	84	33415	4.026	ug/l #	82
25) 2-Butanone	7.495	43	30429	8.198	ug/l	95
29) Tetrahydrofuran	7.860	42	1753	0.754	ug/l #	48
31) Cyclohexane	8.237	56	14711	1.263	ug/l #	17
36) 1,1-Dichloropropene	8.237	75	54371	5.188	ug/l #	48
37) Ethyl Acetate	7.572	43	98409	12.358	ug/l	99
38) Carbon Tetrachloride	8.237	117	70788	6.122	ug/l #	18
42) 1,2-Dichloroethane	8.695	62	3527	0.322	ug/l #	73
43) Isopropyl Acetate	8.695	43	473534	34.372	ug/l #	87
48) Methyl methacrylate	9.666	41	12832	2.046	ug/l #	33
49) 1,4-Dioxane	9.684	88	83	0.528	ug/l #	30
51) 4-Methyl-2-Pentanone	10.448	43	31809	3.936	ug/l #	67
52) Toluene	10.636	92	5137	0.246	ug/l	87
54) cis-1,3-Dichloropropene	10.360	75	204963	15.843	ug/l #	59
57) 1,3-Dichloropropane	11.201	76	24280	1.812	ug/l #	42
59) 2-Hexanone	11.172	43	326786	55.635	ug/l #	19
74) N-amyl acetate	12.466	43	4889	0.435	ug/l #	39
76) 1,2,3-Trichloropropane	12.854	75	252015	26.517	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	252015	74.915	ug/l #	15
93) 1,2,4-Trichlorobenzene	15.418	180	143	0.845	ug/l #	14
95) Naphthalene	15.648	128	835	1.217	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.848	180	132	0.522	ug/l #	71

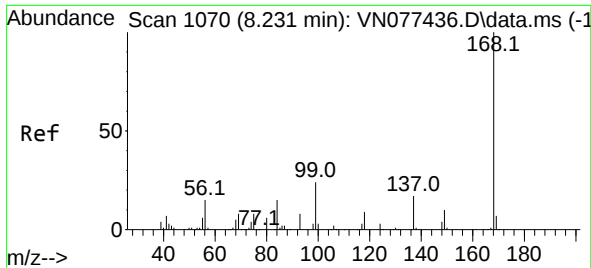
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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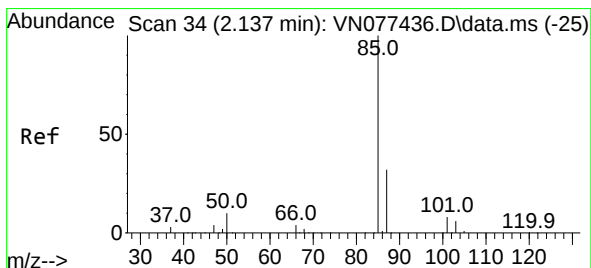
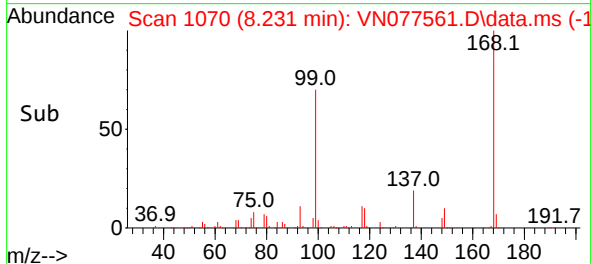
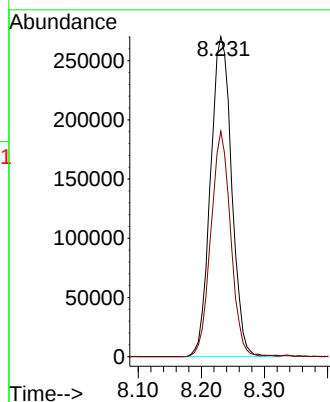
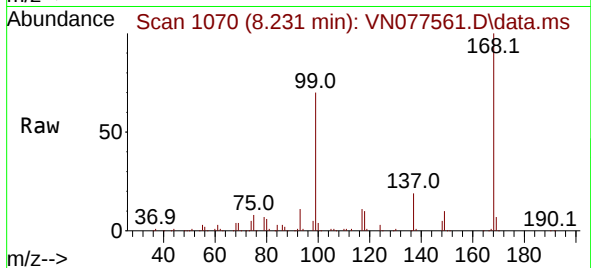




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VN077561.D
Acq: 03 May 2023 14:31

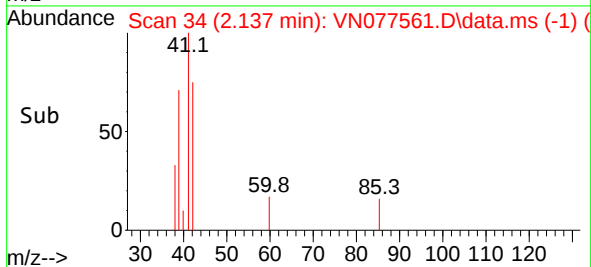
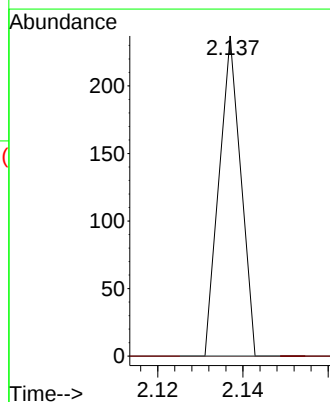
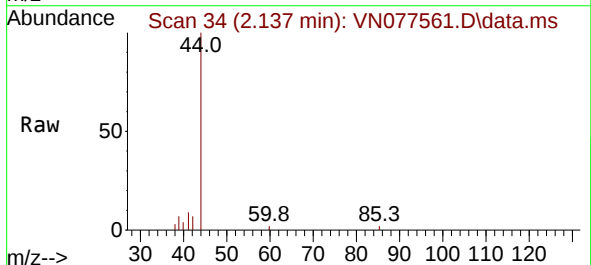
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#06

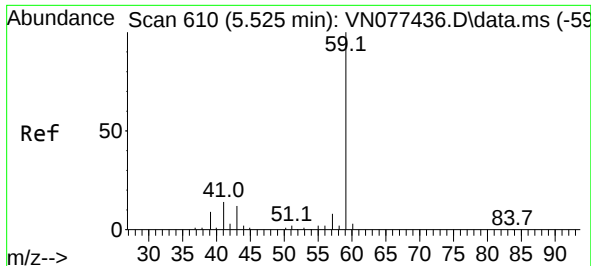
Tgt Ion:168 Resp: 630357
Ion Ratio Lower Upper
168 100
99 70.4 53.0 79.6



#2
Dichlorodifluoromethane
Concen: 0.320 ug/l
RT: 2.137 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN077561.D
Acq: 03 May 2023 14:31

Tgt Ion: 85 Resp: 84
Ion Ratio Lower Upper
85 100
87 0.0 15.8 47.4#

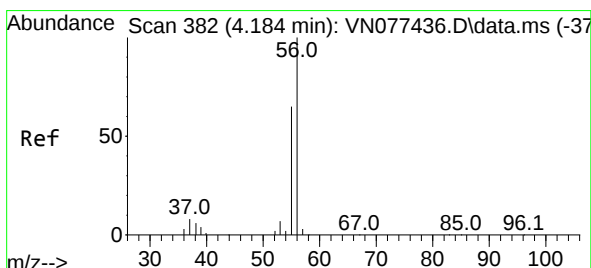
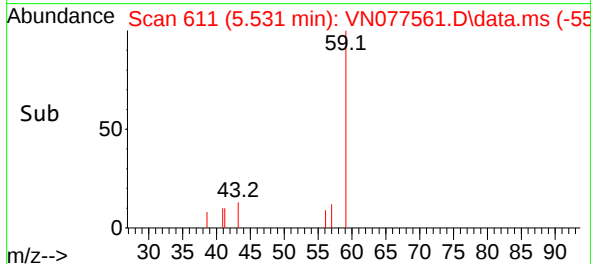
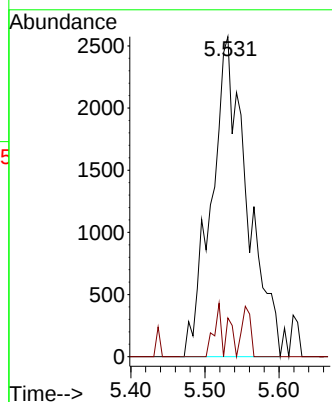
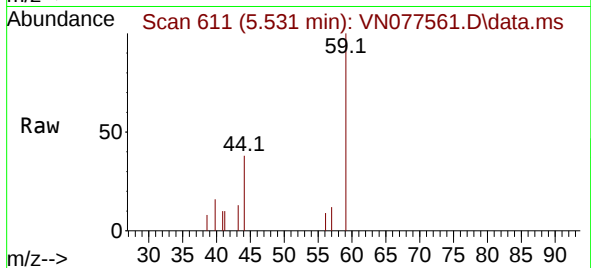




#11
Tert butyl alcohol
Concen: 6.517 ug/l
RT: 5.531 min Scan# 610
Delta R.T. 0.006 min
Lab File: VN077561.D
Acq: 03 May 2023 14:31

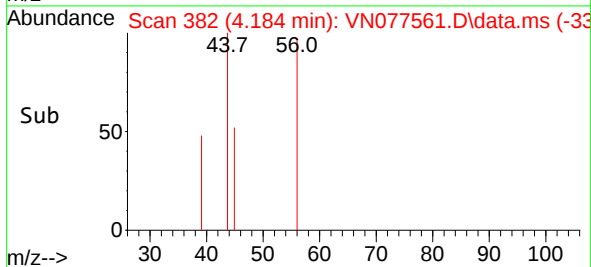
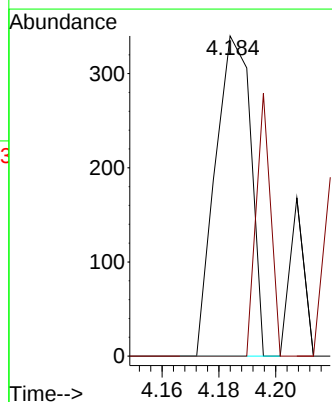
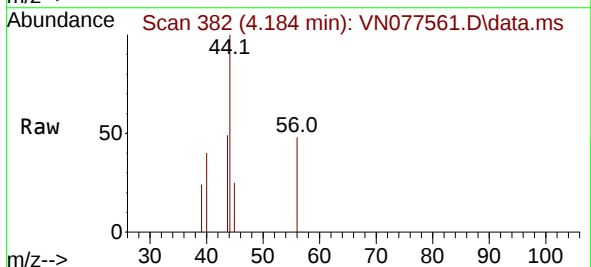
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#06

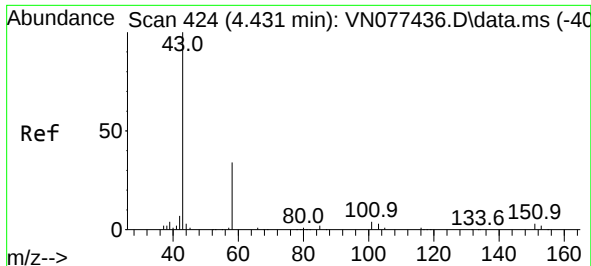
Tgt Ion: 59 Resp: 8606
Ion Ratio Lower Upper
59 100
57 3.2 8.2 12.4#



#13
Acrolein
Concen: 0.224 ug/l
RT: 4.184 min Scan# 382
Delta R.T. 0.000 min
Lab File: VN077561.D
Acq: 03 May 2023 14:31

Tgt Ion: 56 Resp: 294
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#

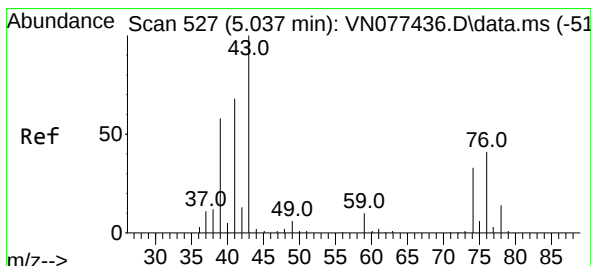
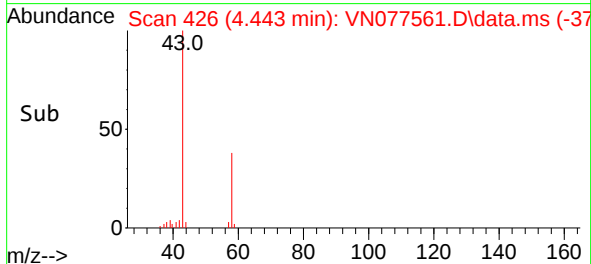
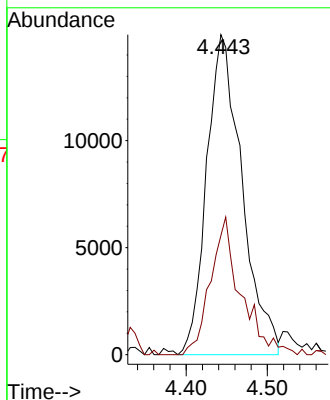
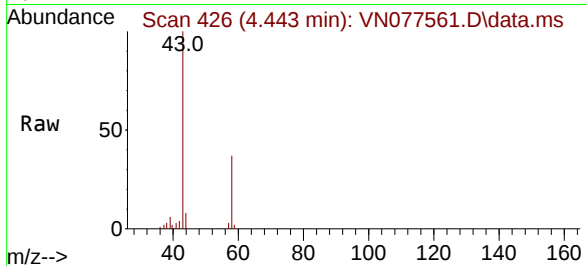




#16
Acetone
Concen: 17.237 ug/l
RT: 4.443 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN077561.D
Acq: 03 May 2023 14:31

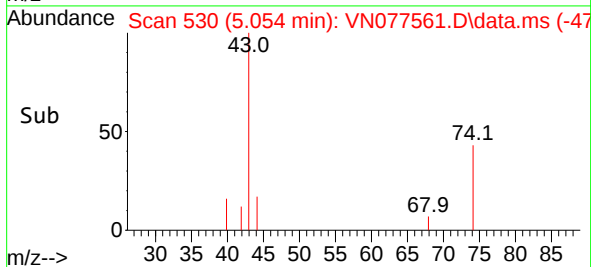
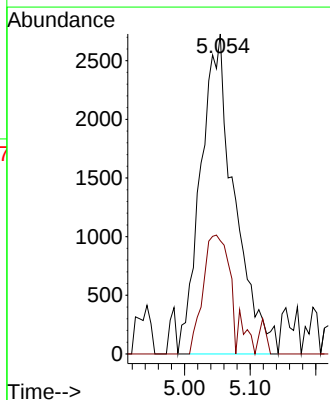
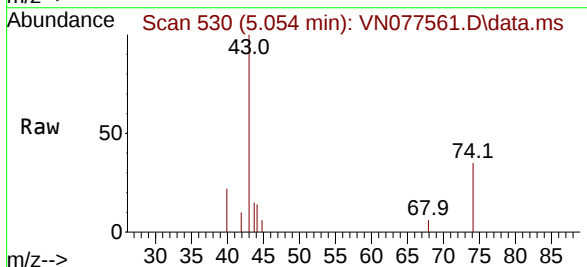
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#06

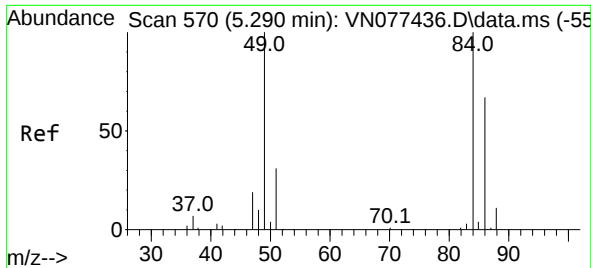
Tgt Ion: 43 Resp: 45106
Ion Ratio Lower Upper
43 100
58 37.3 28.0 42.0



#18
Methyl Acetate
Concen: 0.967 ug/l
RT: 5.054 min Scan# 530
Delta R.T. 0.018 min
Lab File: VN077561.D
Acq: 03 May 2023 14:31

Tgt Ion: 43 Resp: 9768
Ion Ratio Lower Upper
43 100
74 31.7 26.2 39.4

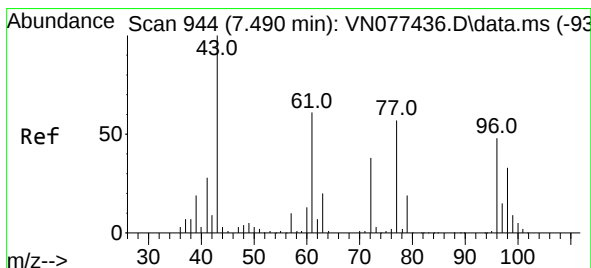
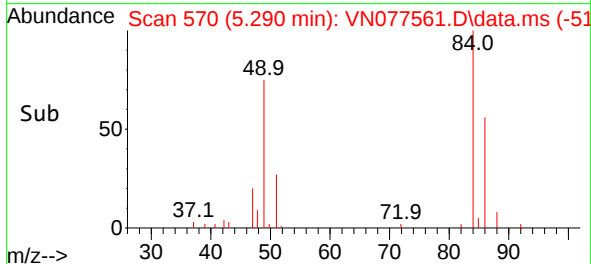
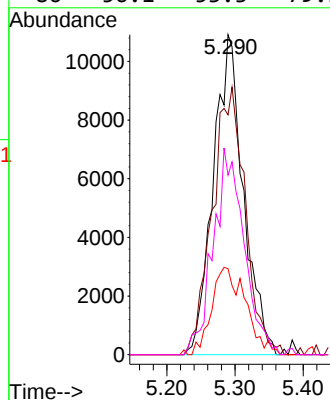
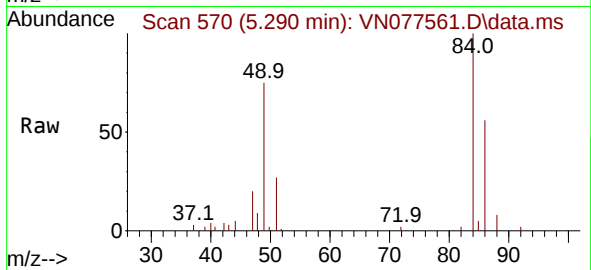




#20
Methylene Chloride
Concen: 4.026 ug/l
RT: 5.290 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN077561.D
Acq: 03 May 2023 14:31

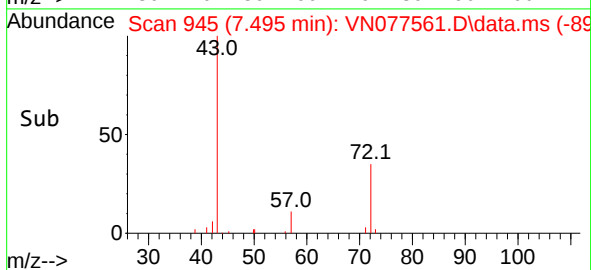
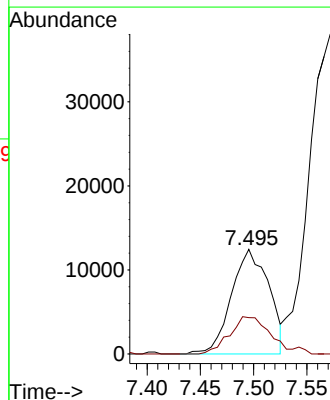
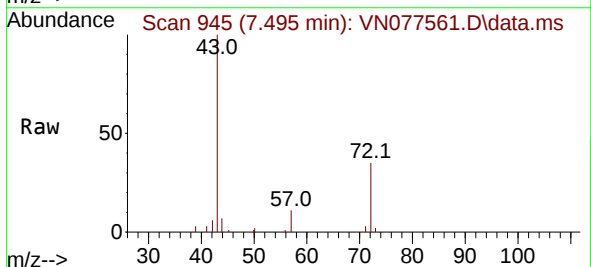
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#06

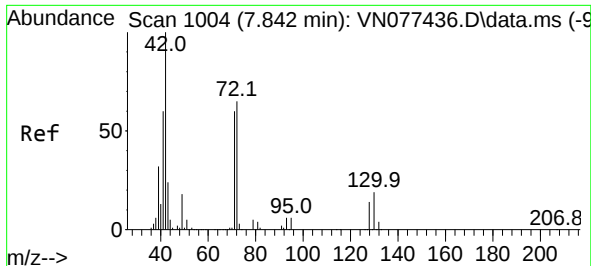
Tgt Ion: 84	Resp: 33415
Ion Ratio	Lower Upper
84 100	
49 74.9	79.7 119.5#
51 26.9	25.2 37.8
86 56.1	53.3 79.9



#25
2-Butanone
Concen: 8.198 ug/l
RT: 7.495 min Scan# 945
Delta R.T. 0.006 min
Lab File: VN077561.D
Acq: 03 May 2023 14:31

Tgt Ion: 43	Resp: 30429
Ion Ratio	Lower Upper
43 100	
72 34.7	30.2 45.2





#29

Tetrahydrofuran

Concen: 0.754 ug/l

RT: 7.860 min Scan# 1071

Delta R.T. 0.018 min

Lab File: VN077561.D

Acq: 03 May 2023 14:31

Instrument :

MSVOA_N

ClientSampleId :

PB152533ZHE#06

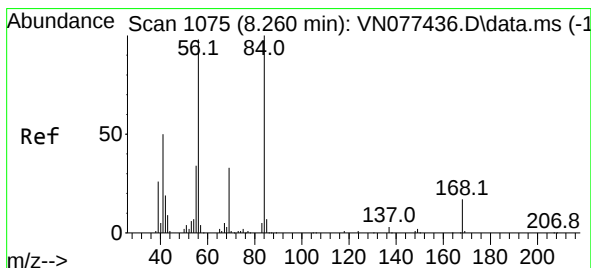
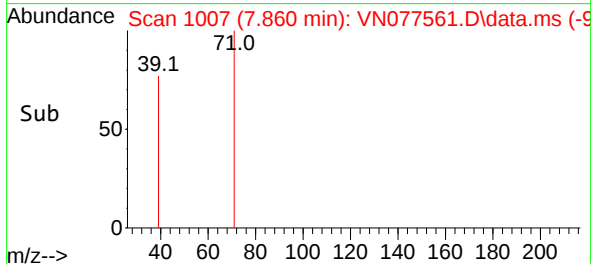
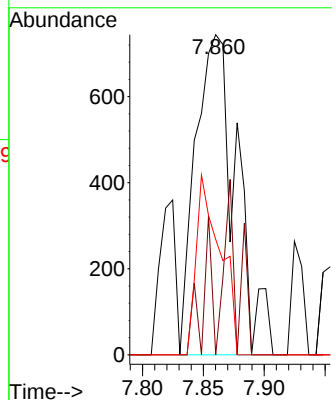
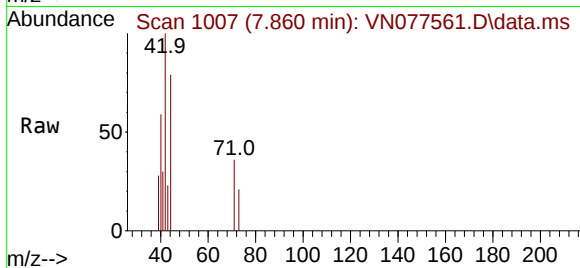
Tgt Ion: 42 Resp: 1753

Ion Ratio Lower Upper

42 100

72 9.9 49.8 74.6#

71 32.9 47.4 71.2#



#31

Cyclohexane

Concen: 1.263 ug/l

RT: 8.237 min Scan# 1071

Delta R.T. -0.024 min

Lab File: VN077561.D

Acq: 03 May 2023 14:31

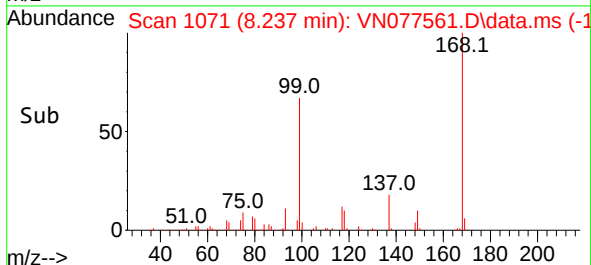
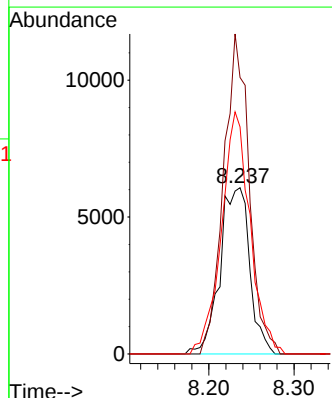
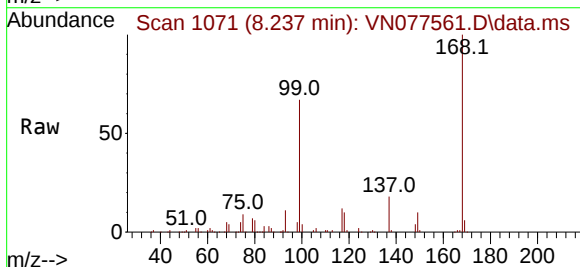
Tgt Ion: 56 Resp: 14711

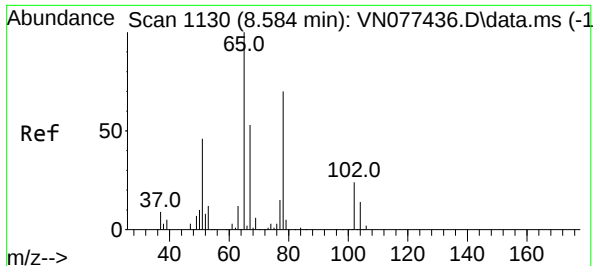
Ion Ratio Lower Upper

56 100

69 166.3 26.8 40.2#

84 136.5 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 50.984 ug/l

RT: 8.584 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN077561.D

Acq: 03 May 2023 14:31

Instrument :

MSVOA_N

ClientSampleId :

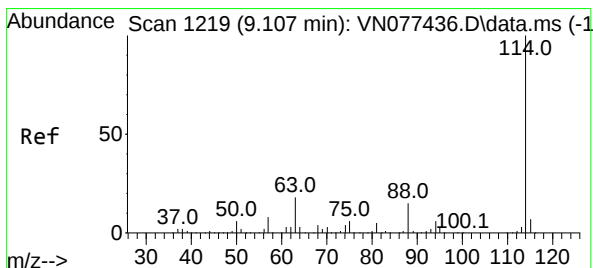
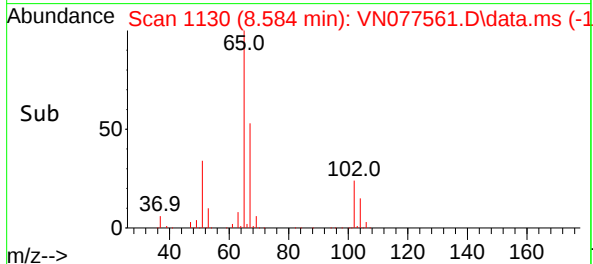
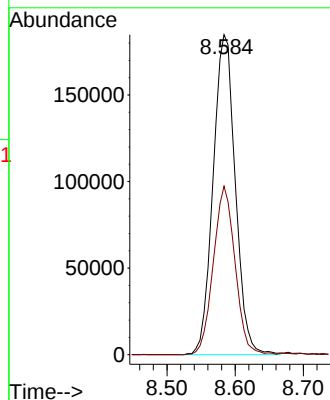
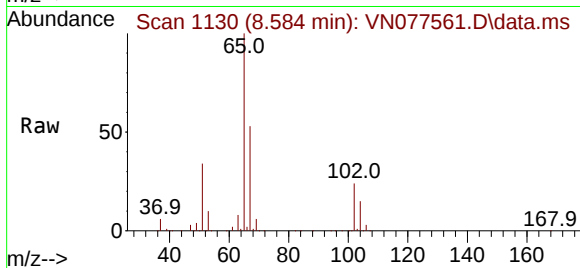
PB152533ZHE#06

Tgt Ion: 65 Resp: 419366

Ion Ratio Lower Upper

65 100

67 51.4 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: VN077561.D

Acq: 03 May 2023 14:31

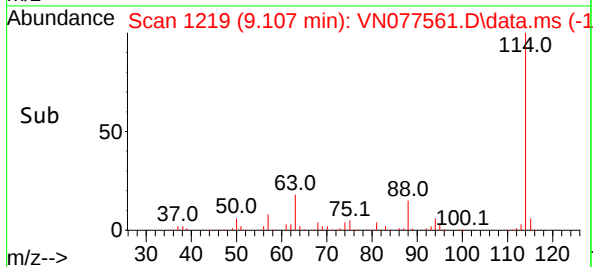
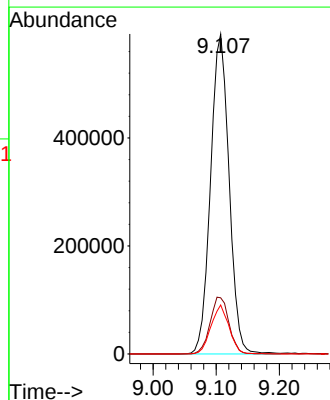
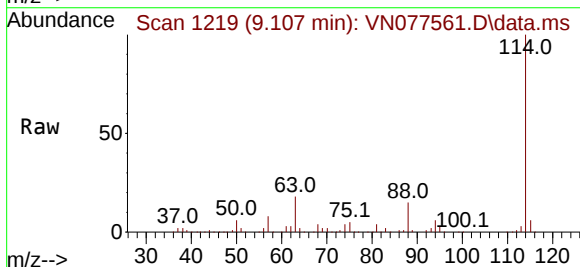
Tgt Ion: 114 Resp: 1206881

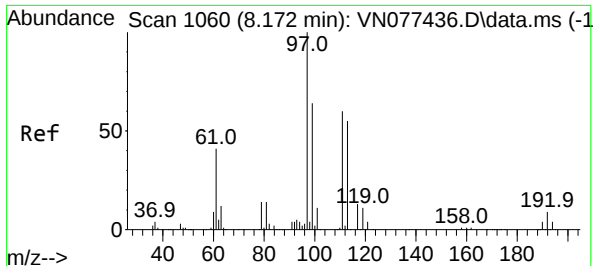
Ion Ratio Lower Upper

114 100

63 17.6 0.0 36.4

88 15.3 0.0 30.6

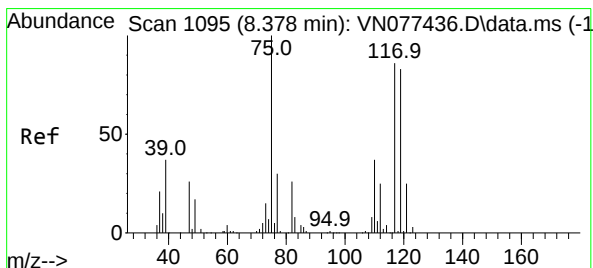
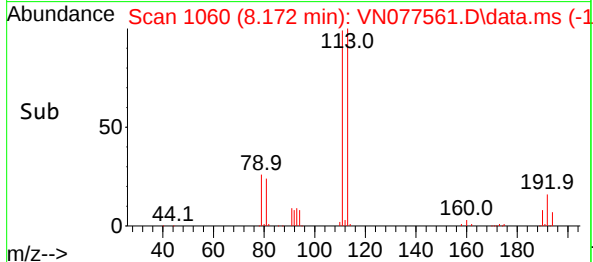
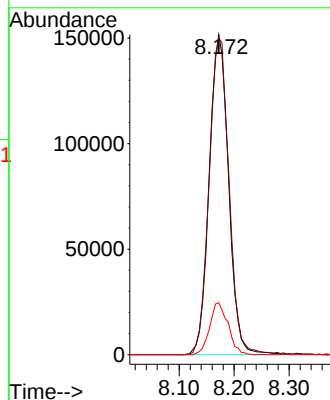
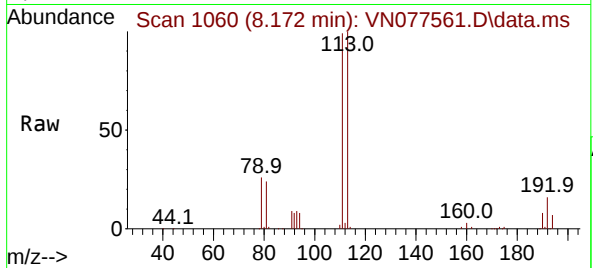




#35
Dibromofluoromethane
Concen: 51.193 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. 0.000 min
Lab File: VN077561.D
Acq: 03 May 2023 14:31

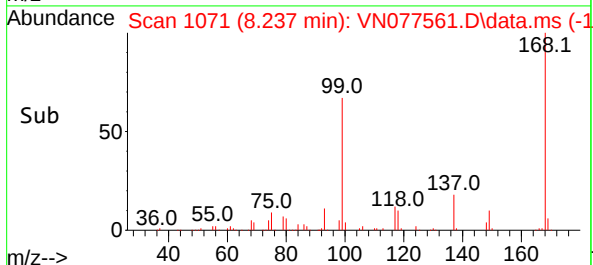
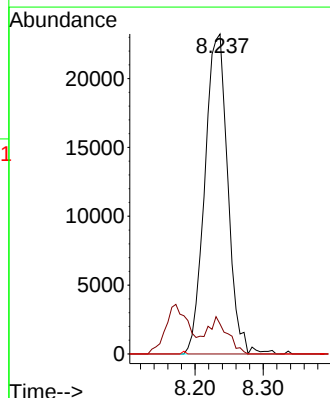
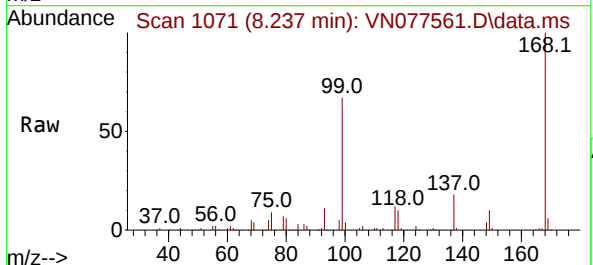
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#06

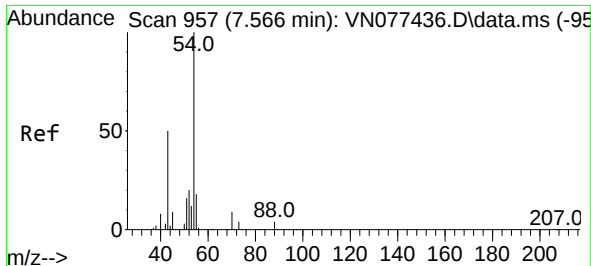
Tgt Ion:113 Resp: 371345
Ion Ratio Lower Upper
113 100
111 101.6 82.6 123.8
192 15.4 12.7 19.1



#36
1,1-Dichloropropene
Concen: 5.188 ug/l
RT: 8.237 min Scan# 1071
Delta R.T. -0.141 min
Lab File: VN077561.D
Acq: 03 May 2023 14:31

Tgt Ion: 75 Resp: 54371
Ion Ratio Lower Upper
75 100
110 9.1 19.1 57.3#
77 0.0 25.0 37.4#

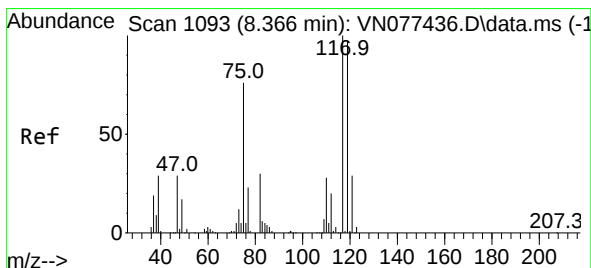
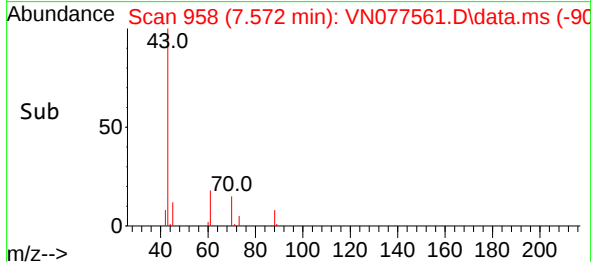
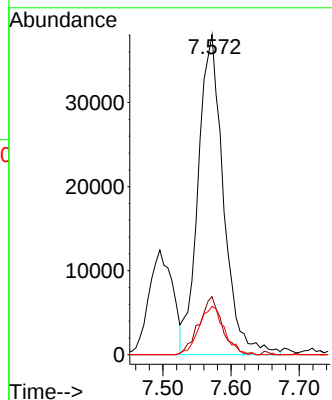
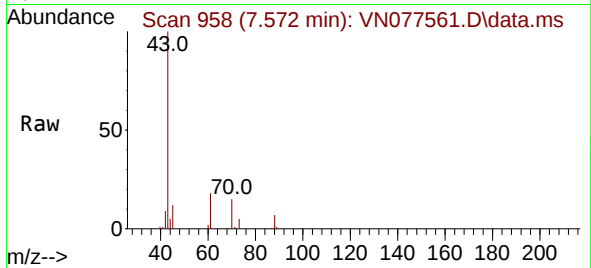




#37
Ethyl Acetate
Concen: 12.358 ug/l
RT: 7.572 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN077561.D
Acq: 03 May 2023 14:31

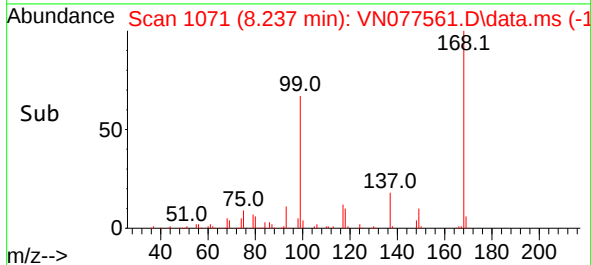
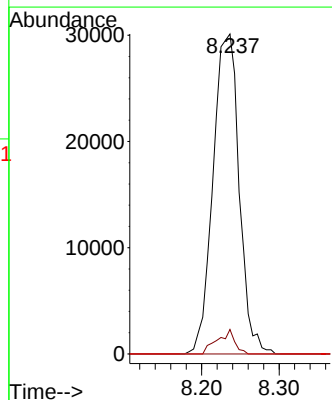
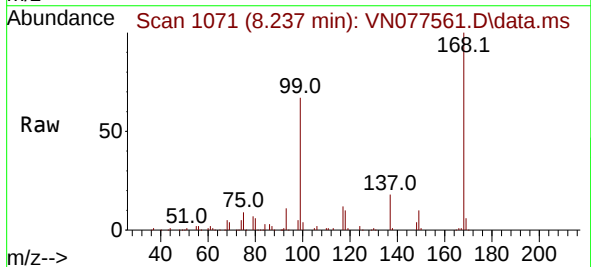
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#06

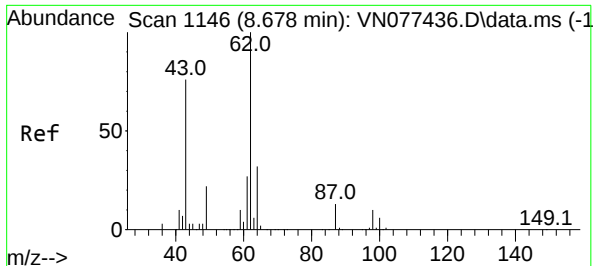
Tgt Ion: 43 Resp: 98409
Ion Ratio Lower Upper
43 100
61 16.6 13.2 19.8
70 15.0 11.3 16.9



#38
Carbon Tetrachloride
Concen: 6.122 ug/l
RT: 8.237 min Scan# 1071
Delta R.T. -0.129 min
Lab File: VN077561.D
Acq: 03 May 2023 14:31

Tgt Ion: 117 Resp: 70788
Ion Ratio Lower Upper
117 100
119 7.7 77.3 115.9#
121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.322 ug/l

RT: 8.695 min Scan# 1149

Delta R.T. 0.018 min

Lab File: VN077561.D

Acq: 03 May 2023 14:31

Instrument :

MSVOA_N

ClientSampleId :

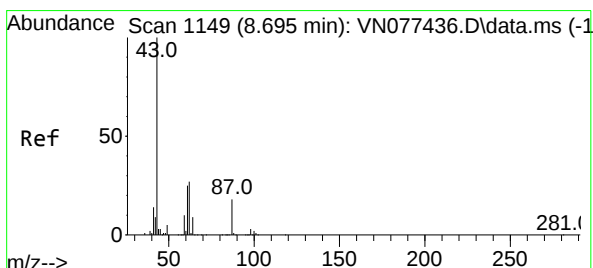
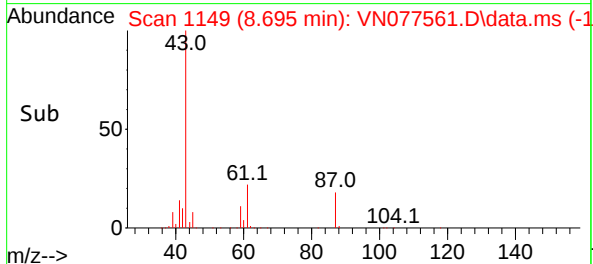
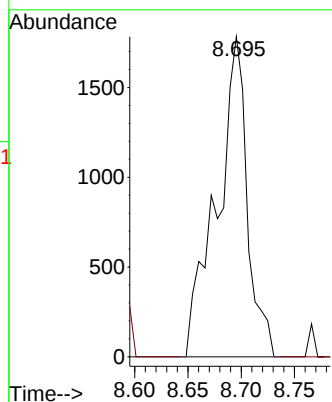
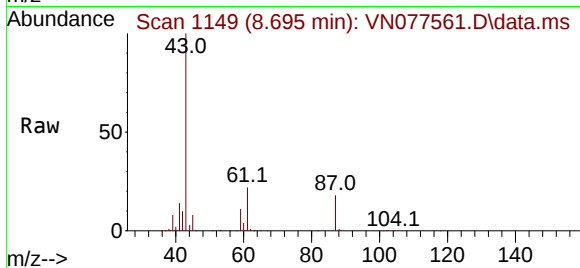
PB152533ZHE#06

Tgt Ion: 62 Resp: 3527

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 34.372 ug/l

RT: 8.695 min Scan# 1149

Delta R.T. 0.000 min

Lab File: VN077561.D

Acq: 03 May 2023 14:31

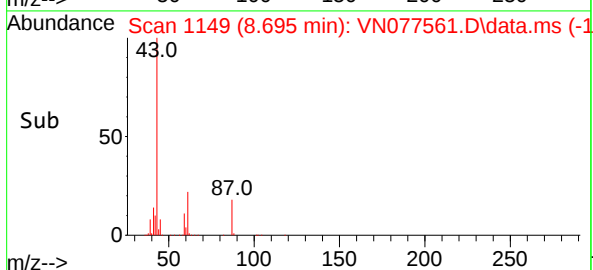
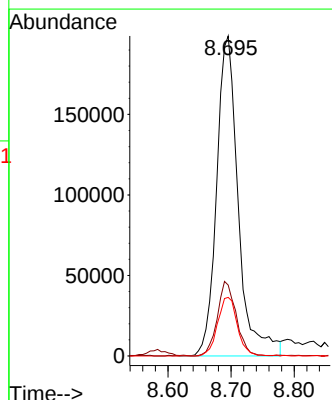
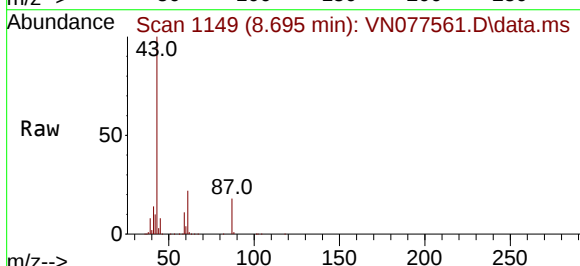
Tgt Ion: 43 Resp: 473534

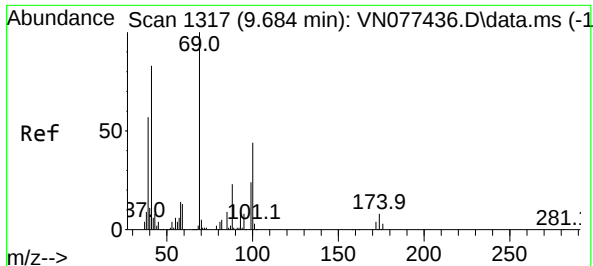
Ion Ratio Lower Upper

43 100

61 20.4 24.7 37.1#

87 16.7 14.6 21.8





#48

Methyl methacrylate

Concen: 2.046 ug/l

RT: 9.666 min Scan# 1

Delta R.T. -0.018 min

Lab File: VN077561.D

Acq: 03 May 2023 14:31

Instrument :

MSVOA_N

ClientSampleId :

PB152533ZHE#06

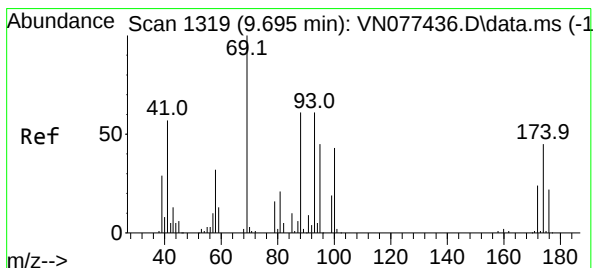
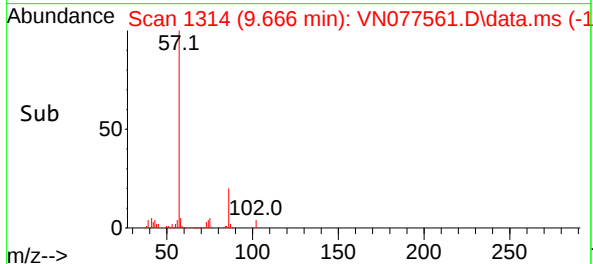
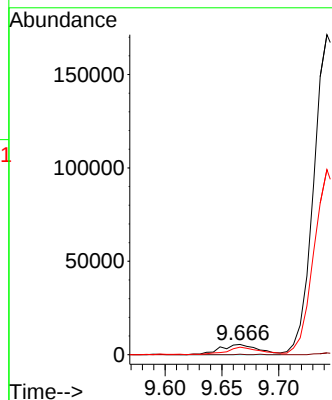
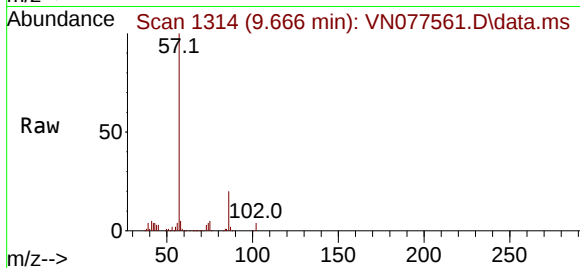
Tgt Ion: 41 Resp: 12832

Ion Ratio Lower Upper

41 100

69 0.7 90.4 135.6#

39 64.9 54.6 81.8



#49

1,4-Dioxane

Concen: 0.528 ug/l

RT: 9.684 min Scan# 1317

Delta R.T. -0.012 min

Lab File: VN077561.D

Acq: 03 May 2023 14:31

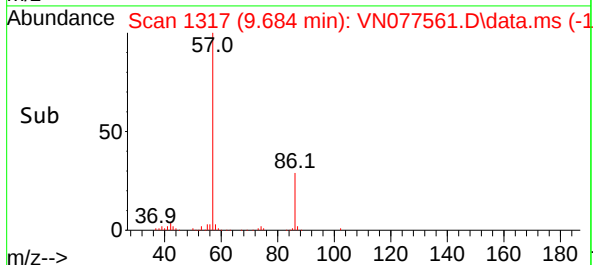
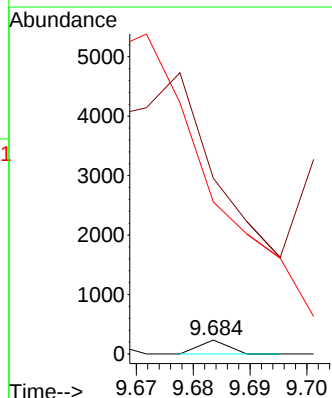
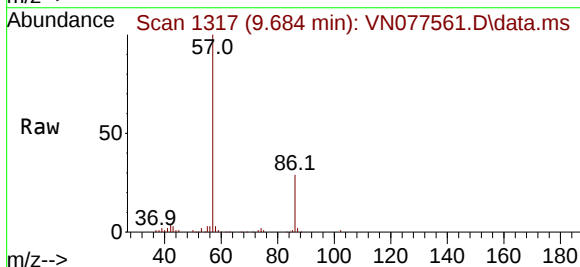
Tgt Ion: 88 Resp: 83

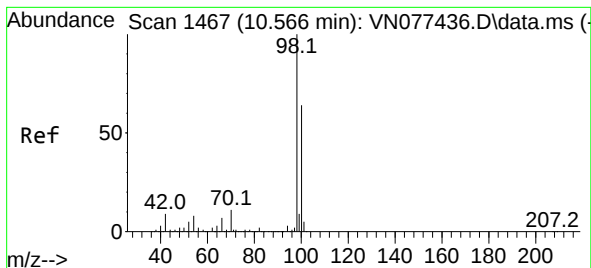
Ion Ratio Lower Upper

88 100

43 0.0 17.0 25.6#

58 0.0 47.0 70.4#





#50

Toluene-d8

Concen: 54.700 ug/l

RT: 10.572 min Scan# 1468

Delta R.T. 0.006 min

Lab File: VN077561.D

Acq: 03 May 2023 14:31

Instrument :

MSVOA_N

ClientSampleId :

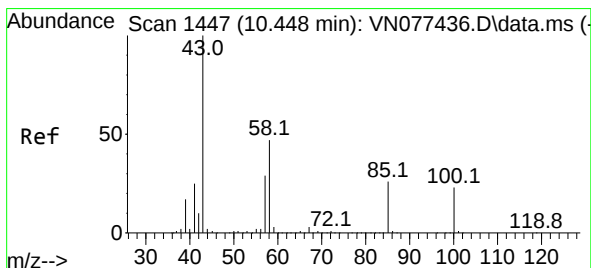
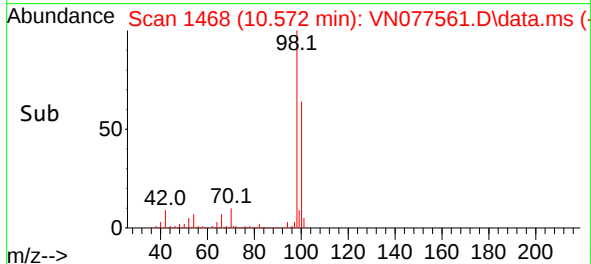
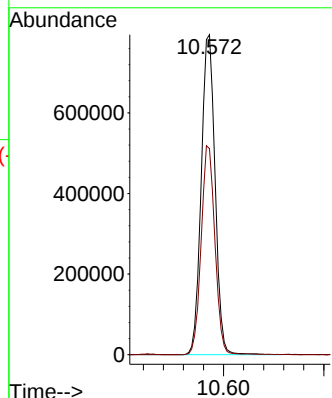
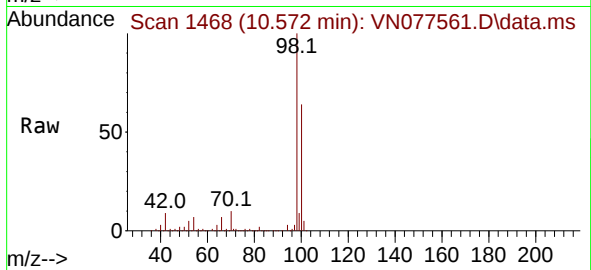
PB152533ZHE#06

Tgt Ion: 98 Resp: 1520709

Ion Ratio Lower Upper

98 100

100 64.7 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 3.936 ug/l

RT: 10.448 min Scan# 1447

Delta R.T. 0.000 min

Lab File: VN077561.D

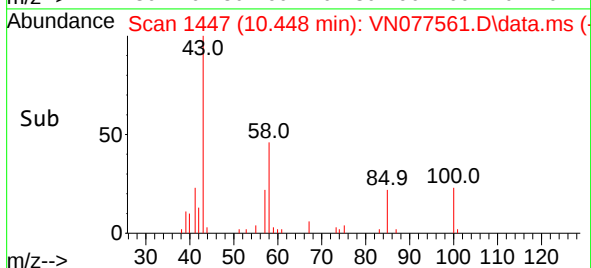
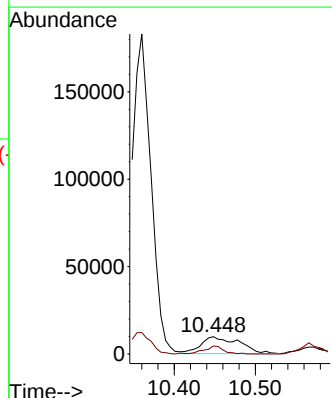
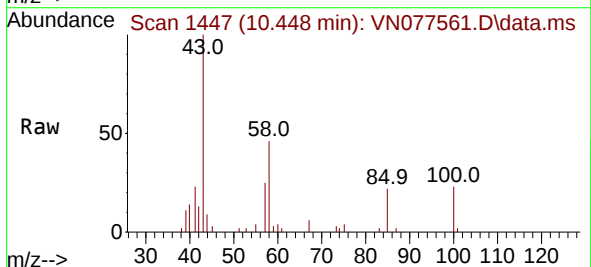
Acq: 03 May 2023 14:31

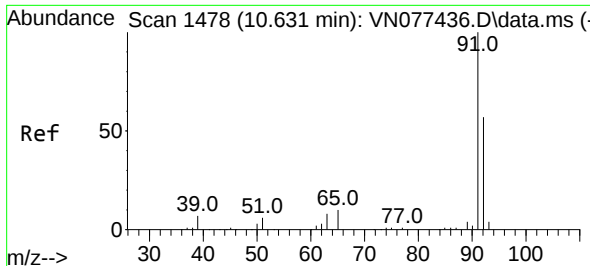
Tgt Ion: 43 Resp: 31809

Ion Ratio Lower Upper

43 100

58 24.0 36.6 54.8#

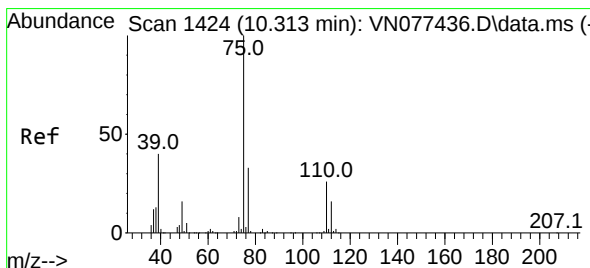
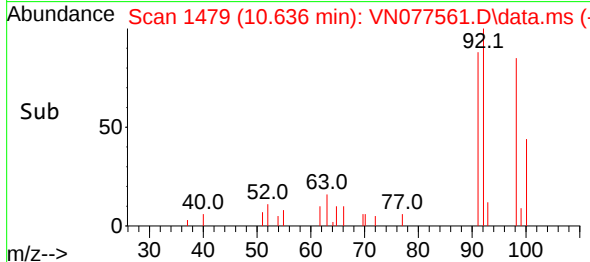
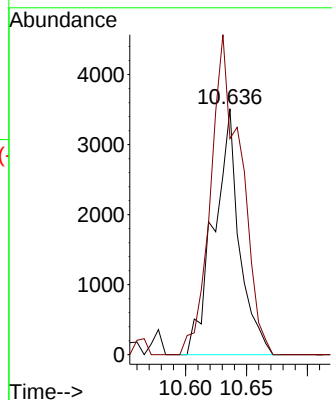
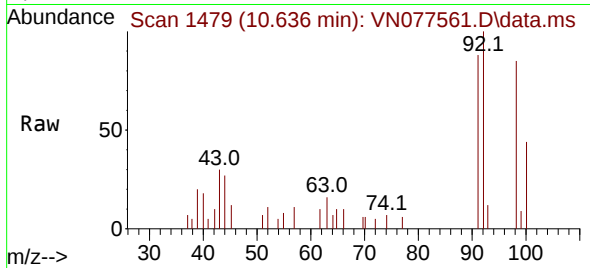




#52
Toluene
Concen: 0.246 ug/l
RT: 10.636 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VN077561.D
Acq: 03 May 2023 14:31

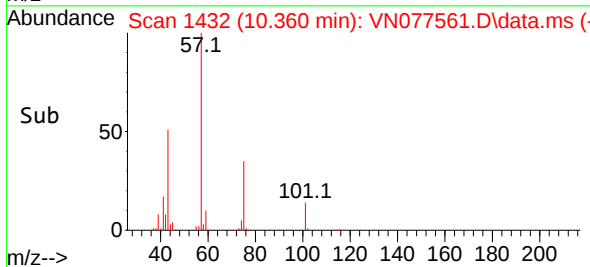
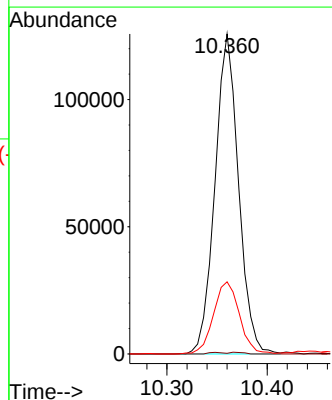
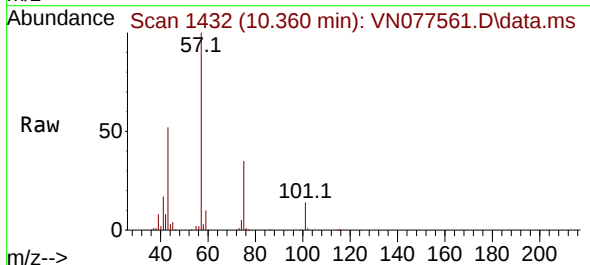
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#06

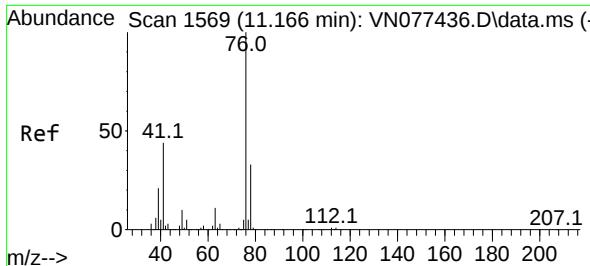
Tgt Ion: 92 Resp: 5137
Ion Ratio Lower Upper
92 100
91 153.6 137.4 206.0



#54
cis-1,3-Dichloropropene
Concen: 15.843 ug/l
RT: 10.360 min Scan# 1432
Delta R.T. 0.047 min
Lab File: VN077561.D
Acq: 03 May 2023 14:31

Tgt Ion: 75 Resp: 204963
Ion Ratio Lower Upper
75 100
77 0.2 26.1 39.1#
39 22.5 31.6 47.4#





#57

1,3-Dichloropropane

Concen: 1.812 ug/l

RT: 11.201 min Scan# 11

Delta R.T. 0.035 min

Lab File: VN077561.D

Acq: 03 May 2023 14:31

Instrument :

MSVOA_N

ClientSampleId :

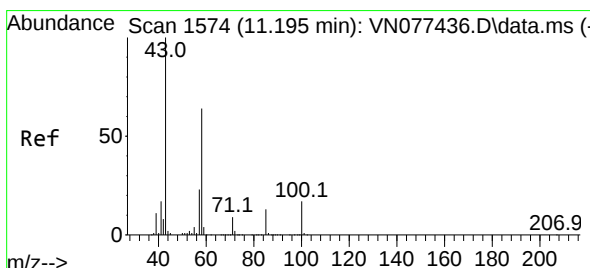
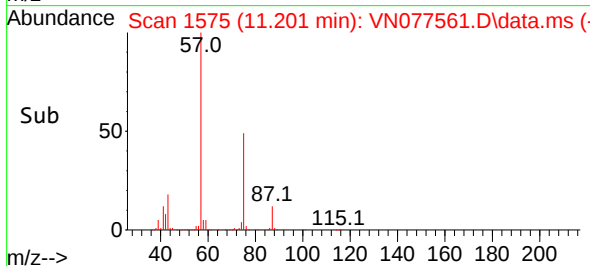
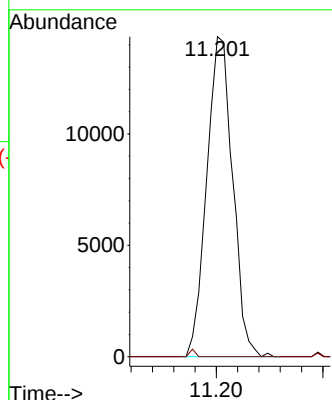
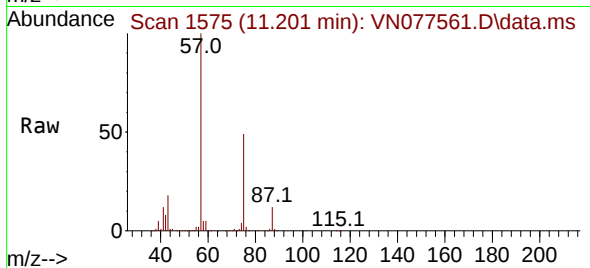
PB152533ZHE#06

Tgt Ion: 76 Resp: 24280

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 55.635 ug/l

RT: 11.172 min Scan# 1570

Delta R.T. -0.023 min

Lab File: VN077561.D

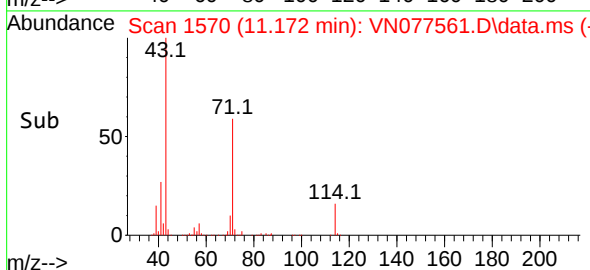
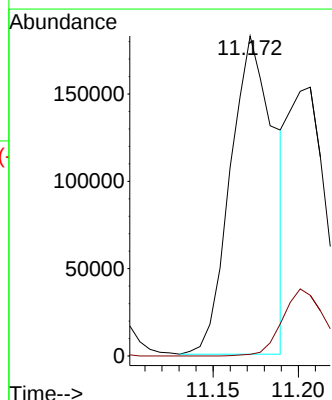
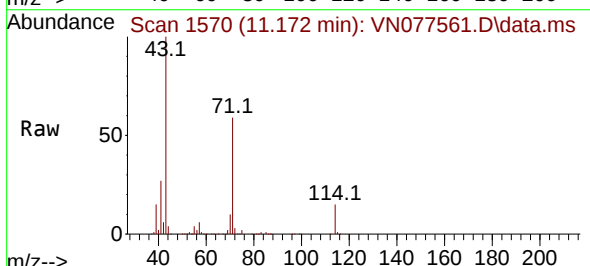
Acq: 03 May 2023 14:31

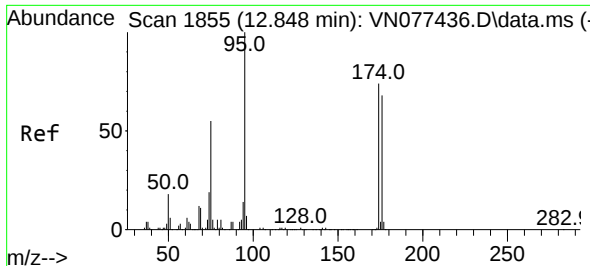
Tgt Ion: 43 Resp: 326786

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

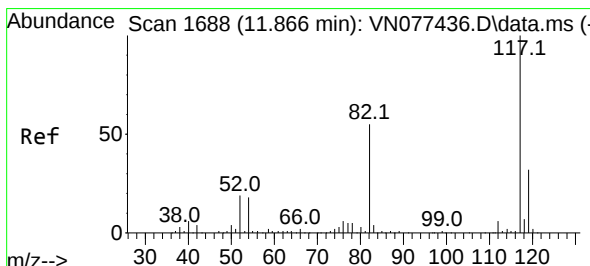
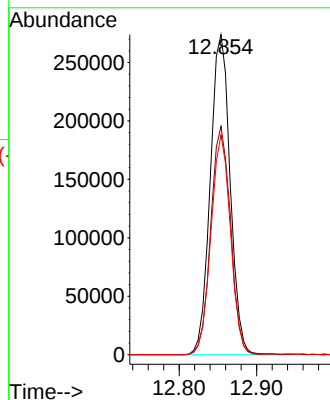
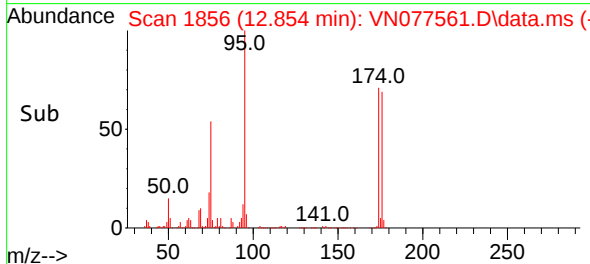
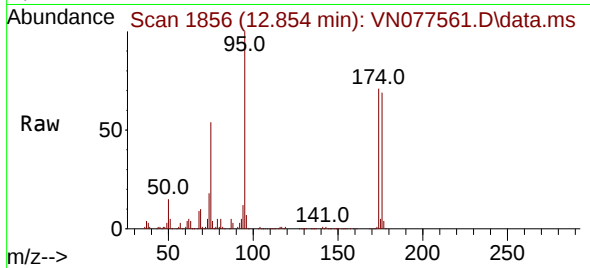




#62
4-Bromofluorobenzene
Concen: 53.478 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077561.D
Acq: 03 May 2023 14:31

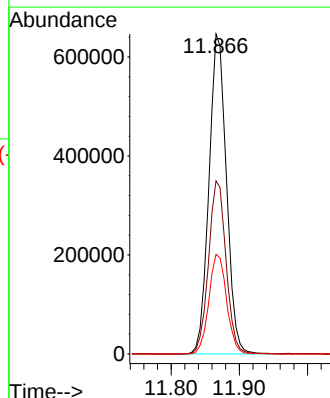
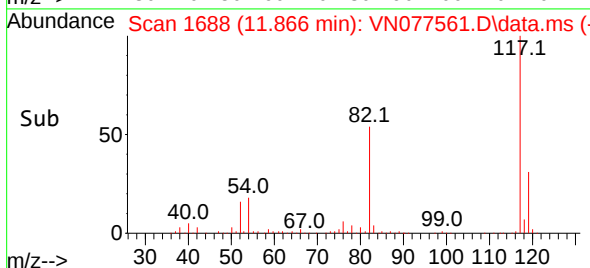
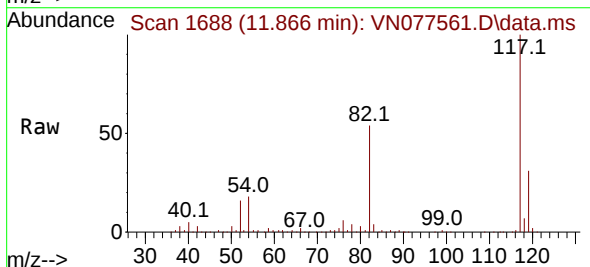
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#06

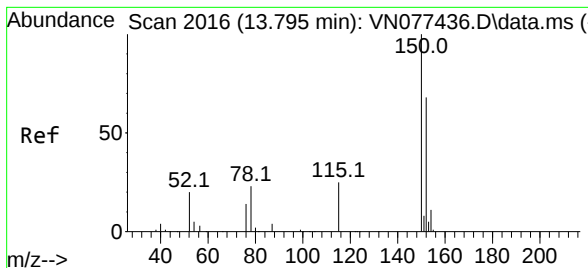
Tgt Ion: 95 Resp: 486430
Ion Ratio Lower Upper
95 100
174 71.0 0.0 143.8
176 67.8 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VN077561.D
Acq: 03 May 2023 14:31

Tgt Ion: 117 Resp: 1151010
Ion Ratio Lower Upper
117 100
82 54.1 44.0 66.0
119 31.2 25.6 38.4

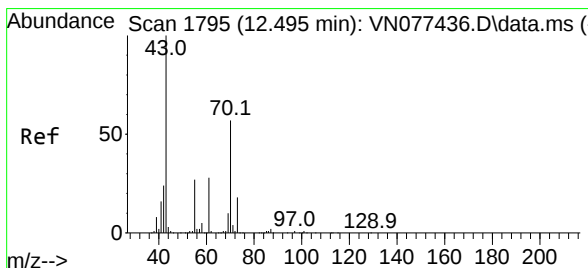
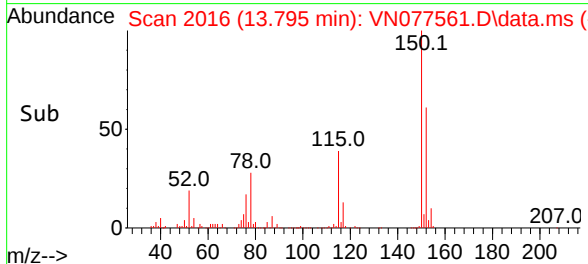
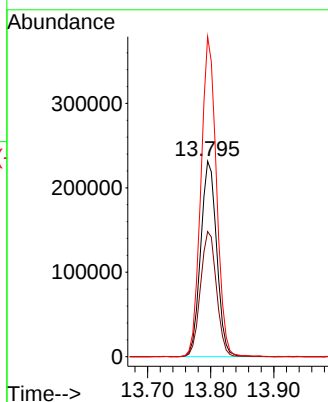
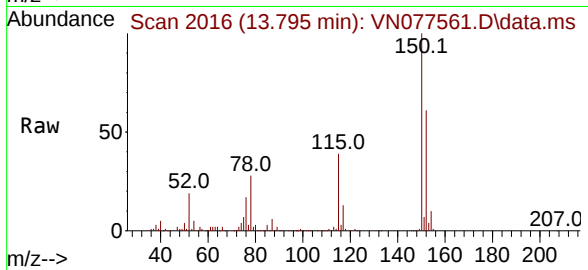




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN077561.D
Acq: 03 May 2023 14:31

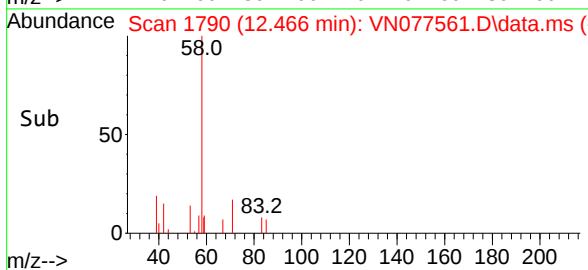
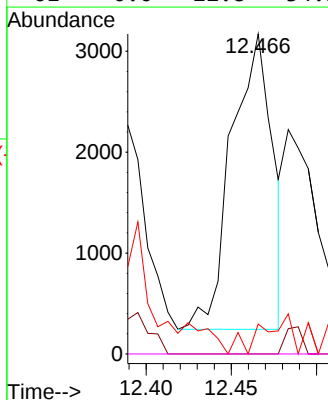
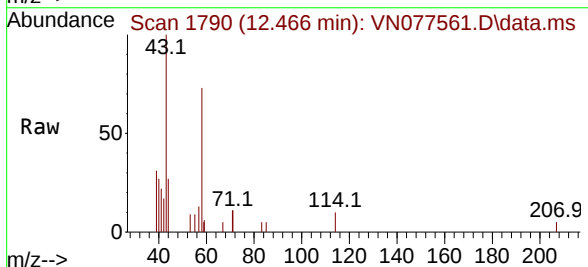
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#06

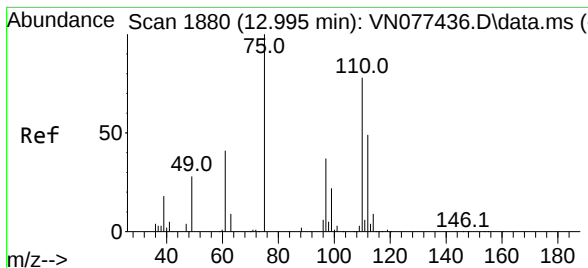
Tgt Ion:152 Resp: 408700
Ion Ratio Lower Upper
152 100
115 63.9 32.3 96.8
150 158.5 0.0 355.8



#74
N-ethyl acetate
Concen: 0.435 ug/l
RT: 12.466 min Scan# 1790
Delta R.T. -0.029 min
Lab File: VN077561.D
Acq: 03 May 2023 14:31

Tgt Ion: 43 Resp: 4889
Ion Ratio Lower Upper
43 100
70 0.0 43.4 65.2#
55 6.9 21.4 32.0#
61 0.0 22.8 34.2#





#76

1,2,3-Trichloropropane

Concen: 26.517 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. -0.141 min

Lab File: VN077561.D

Acq: 03 May 2023 14:31

Instrument :

MSVOA_N

ClientSampleId :

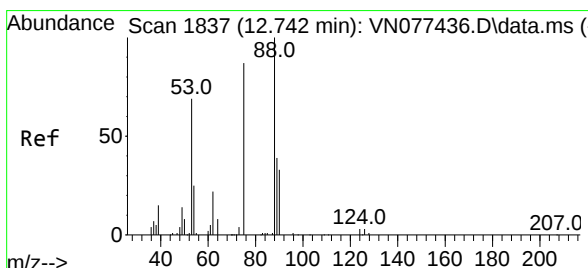
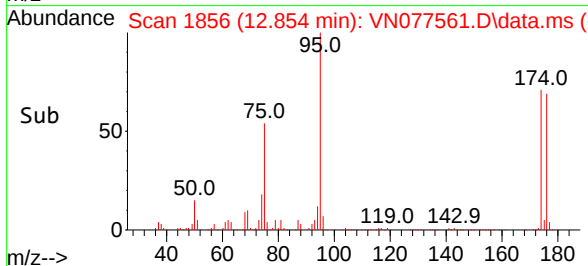
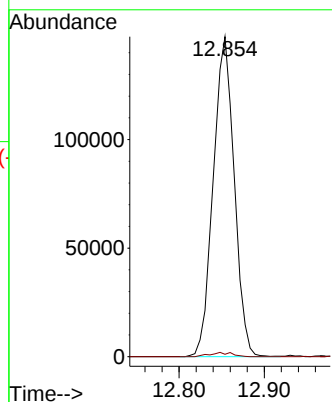
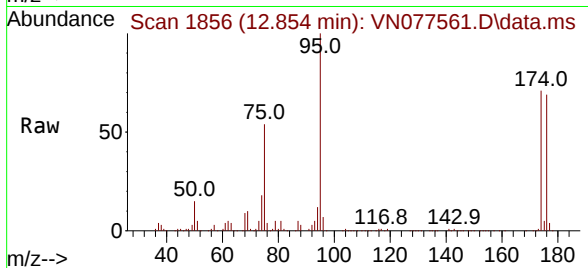
PB152533ZHE#06

Tgt Ion: 75 Resp: 252015

Ion Ratio Lower Upper

75 100

77 1.4 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 74.915 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. 0.112 min

Lab File: VN077561.D

Acq: 03 May 2023 14:31

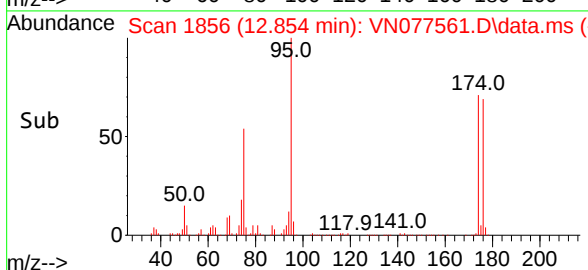
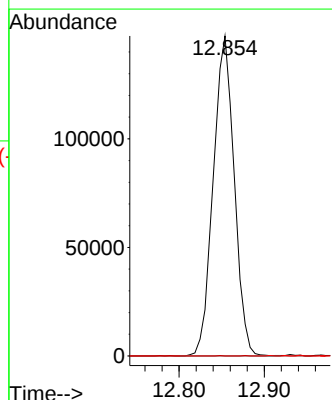
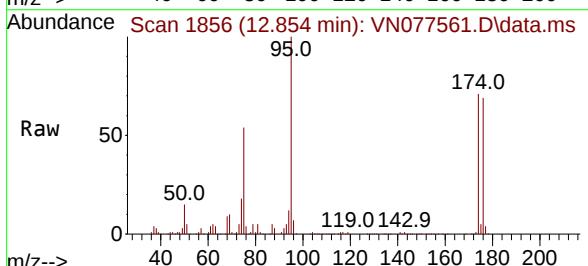
Tgt Ion: 75 Resp: 252015

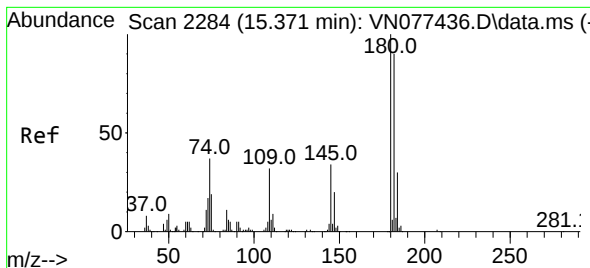
Ion Ratio Lower Upper

75 100

53 0.0 67.4 101.2#

89 0.0 38.8 58.2#





#93

1,2,4-Trichlorobenzene

Concen: 0.845 ug/l

RT: 15.418 min Scan# 21

Delta R.T. 0.047 min

Lab File: VN077561.D

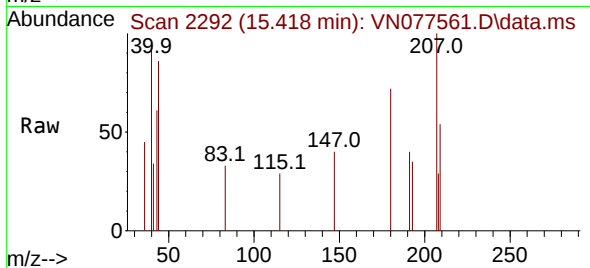
Acq: 03 May 2023 14:31

Instrument :

MSVOA_N

ClientSampleId :

PB152533ZHE#06



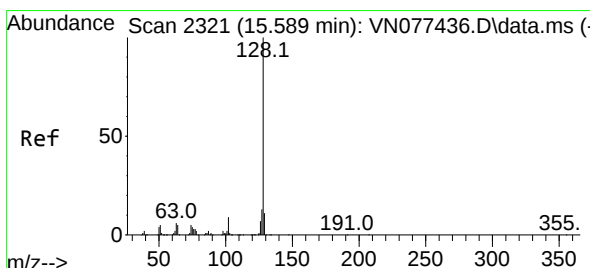
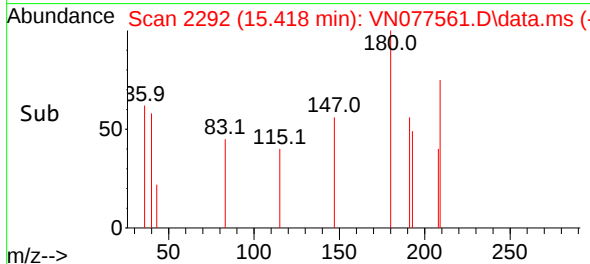
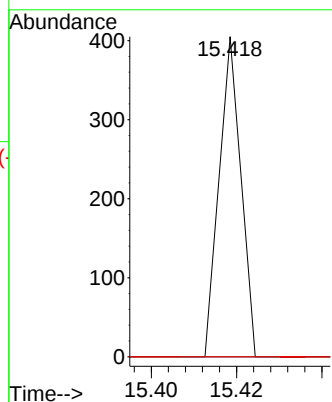
Tgt Ion:180 Resp: 143

Ion Ratio Lower Upper

180 100

182 0.0 46.1 138.2#

145 0.0 16.6 49.8#



#95

Naphthalene

Concen: 1.217 ug/l

RT: 15.648 min Scan# 2331

Delta R.T. 0.059 min

Lab File: VN077561.D

Acq: 03 May 2023 14:31

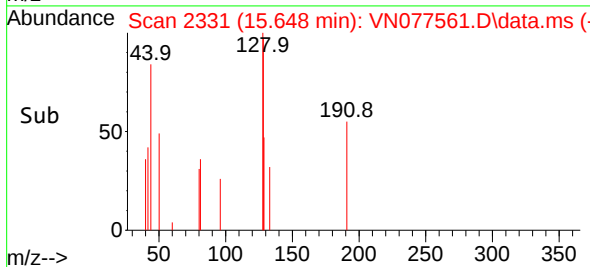
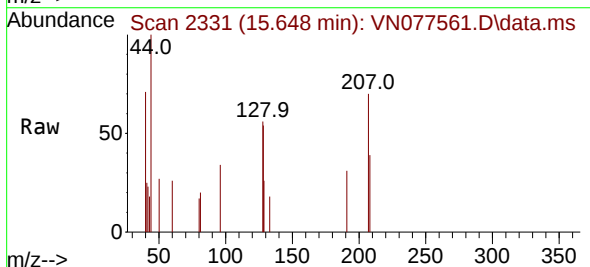
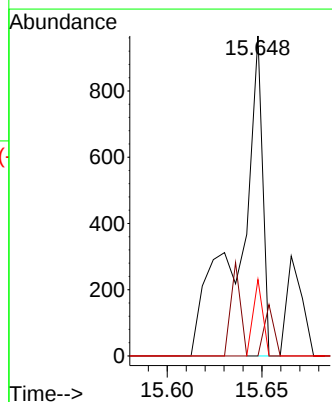
Tgt Ion:128 Resp: 835

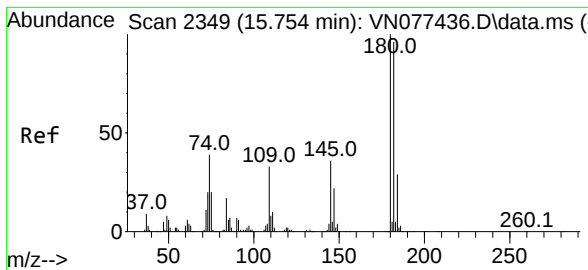
Ion Ratio Lower Upper

128 100

127 6.6 10.0 15.0#

129 9.7 8.7 13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 0.522 ug/l
 RT: 15.848 min Scan# 21
 Delta R.T. 0.094 min
 Lab File: VN077561.D
 Acq: 03 May 2023 14:31

Instrument :
 MSVOA_N
 ClientSampleId :
 PB152533ZHE#06

Tgt Ion:	180	Resp:	132
Ion	Ratio	Lower	Upper
180	100		
182	109.1	46.2	138.6
145	0.0	17.5	52.6#

