

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102224\
 Data File : VN084462.D
 Acq On : 22 Oct 2024 18:21
 Operator : JC\MD
 Sample : P4397-06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WB-301-BOT

Quant Time: Oct 23 01:32:12 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 07:11:01 2024
 Response via : Initial Calibration

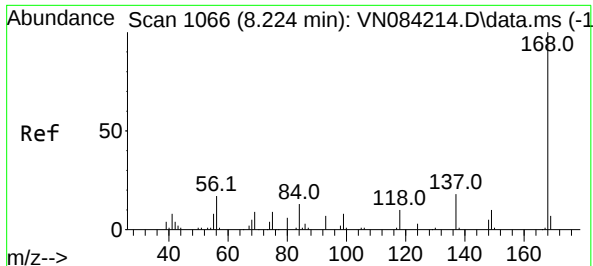
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.224	168	168250	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	297819	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	273036	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	103880	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	123682	49.580	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.160%		
35) Dibromofluoromethane	8.165	113	98197	50.014	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	100.020%		
50) Toluene-d8	10.565	98	376295	52.092	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	104.180%		
62) 4-Bromofluorobenzene	12.847	95	127222	48.344	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	96.680%		
Target Compounds						Qvalue
5) Bromomethane	2.983	94	311	0.214	ug/l #	57
13) Acrolein	4.200	56	167	0.354	ug/l #	14
16) Acetone	4.430	43	26114	24.368	ug/l	95
17) Carbon Disulfide	4.718	76	3058	0.510	ug/l #	75
20) Methylene Chloride	5.265	84	2140	0.982	ug/l #	66
25) 2-Butanone	7.488	43	4085	2.799	ug/l #	84
29) Tetrahydrofuran	7.847	42	885	0.983	ug/l #	41
31) Cyclohexane	8.224	56	3413	0.924	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	14144	4.959	ug/l #	49
37) Ethyl Acetate	7.565	43	2937	1.004	ug/l #	82
38) Carbon Tetrachloride	8.224	117	18593	5.943	ug/l #	15
41) Methacrylonitrile	7.853	41	442	0.278	ug/l #	31
43) Isopropyl Acetate	8.688	43	141080	24.618	ug/l #	88
45) 1,2-Dichloropropane	9.747	63	1306	0.621	ug/l #	44
48) Methyl methacrylate	9.671	41	3360	1.473	ug/l #	41
49) 1,4-Dioxane	9.735	88	60	1.429	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	9873	3.545	ug/l #	75
53) t-1,3-Dichloropropene	10.729	75	778	0.242	ug/l #	43
54) cis-1,3-Dichloropropene	10.359	75	42740	12.369	ug/l #	65
56) Ethyl methacrylate	10.982	69	1469	0.460	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	4977	1.434	ug/l #	42
59) 2-Hexanone	11.200	43	67343	32.349	ug/l #	55
71) Bromoform	12.841	173	382	0.249	ug/l #	1
74) N-amyl acetate	12.488	43	942	0.262	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	64490	30.409	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	64490	72.905	ug/l #	11
90) Hexachloroethane	14.441	117	528	0.410	ug/l #	15
95) Naphthalene	15.647	128	10247	1.784	ug/l	98

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

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
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QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

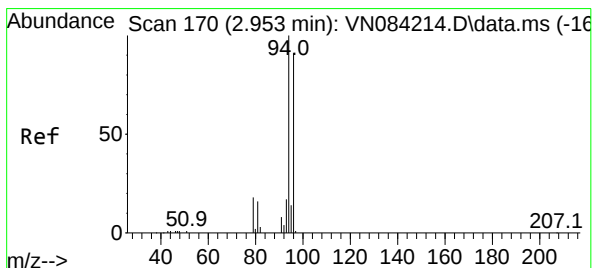
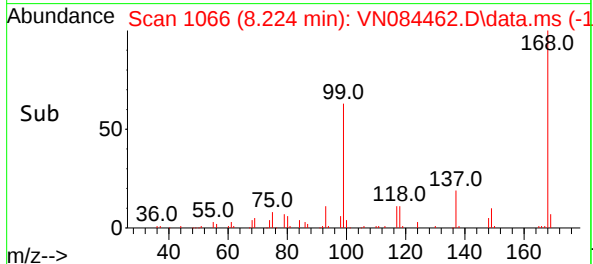
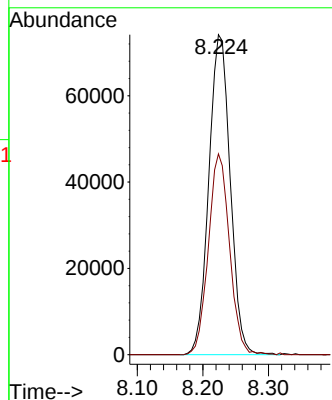
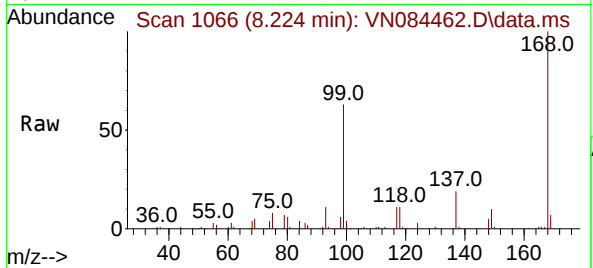




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

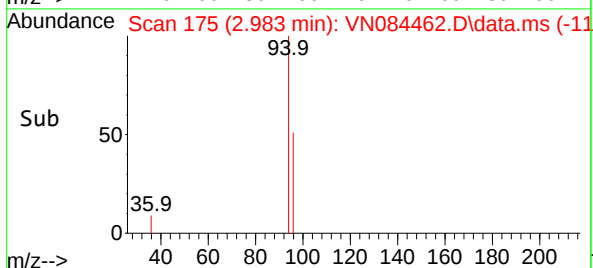
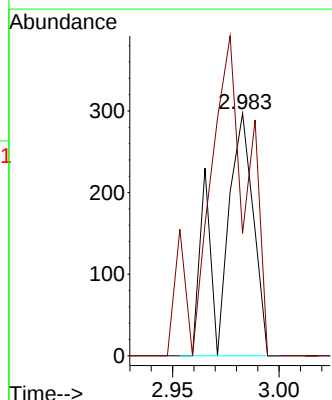
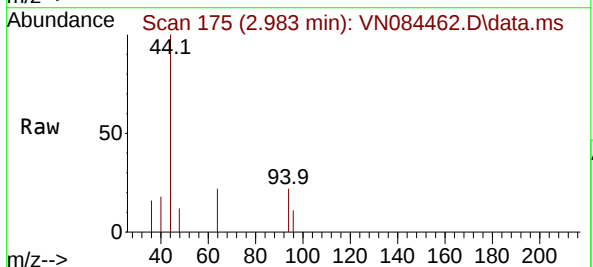
Instrument :
MSVOA_N
ClientSampleId :
WB-301-BOT

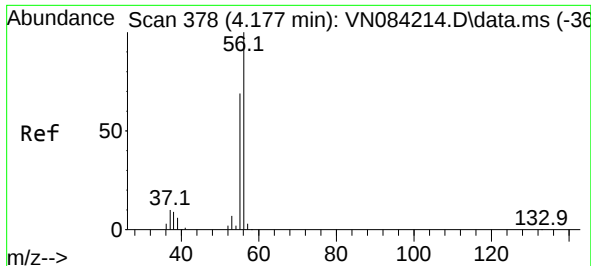
Tgt Ion:168 Resp: 168250
Ion Ratio Lower Upper
168 100
99 62.8 54.2 81.2



#5
Bromomethane
Concen: 0.214 ug/l
RT: 2.983 min Scan# 175
Delta R.T. 0.029 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

Tgt Ion: 94 Resp: 311
Ion Ratio Lower Upper
94 100
96 50.5 72.9 109.3#

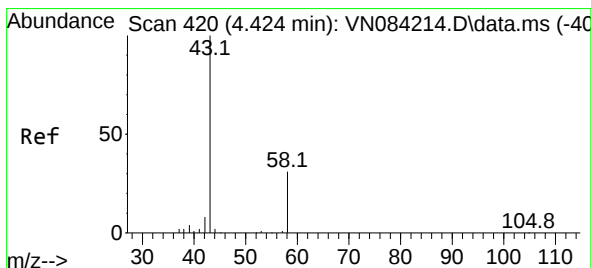
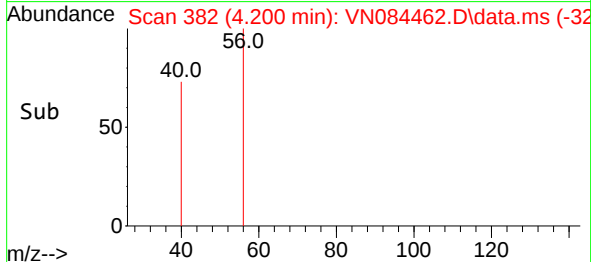
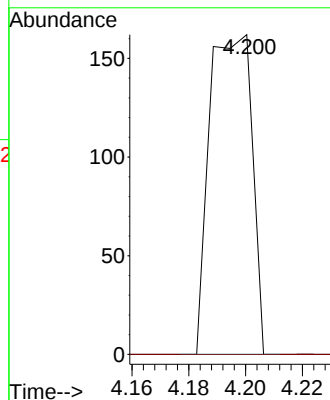
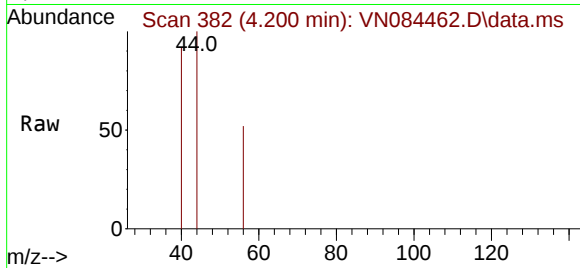




#13
Acrolein
Concen: 0.354 ug/l
RT: 4.200 min Scan# 382
Delta R.T. 0.023 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

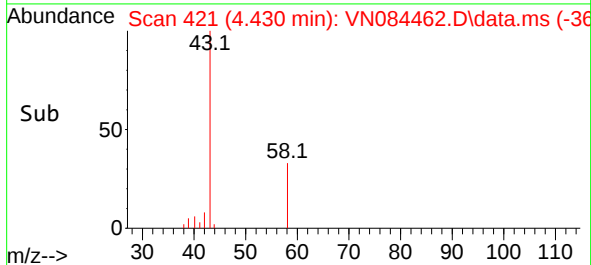
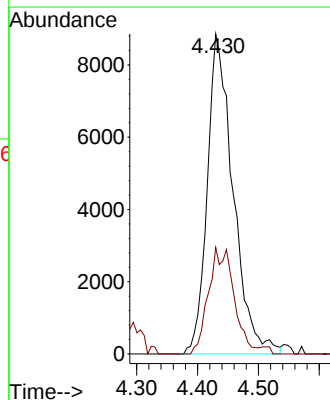
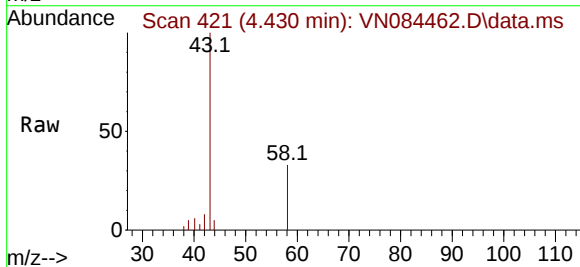
Instrument :
MSVOA_N
ClientSampleId :
WB-301-BOT

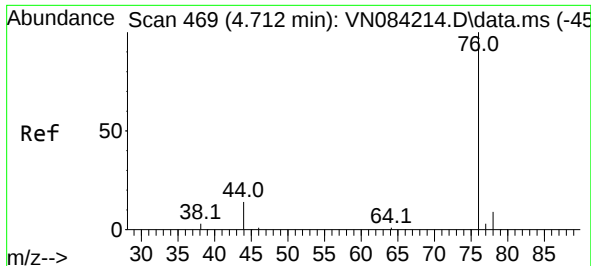
Tgt Ion: 56 Resp: 167
Ion Ratio Lower Upper
56 100
55 0.0 57.2 85.8#



#16
Acetone
Concen: 24.368 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

Tgt Ion: 43 Resp: 26114
Ion Ratio Lower Upper
43 100
58 33.3 24.4 36.6

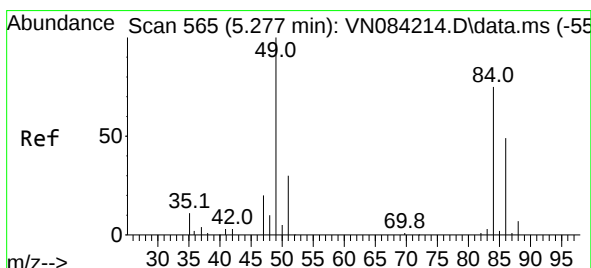
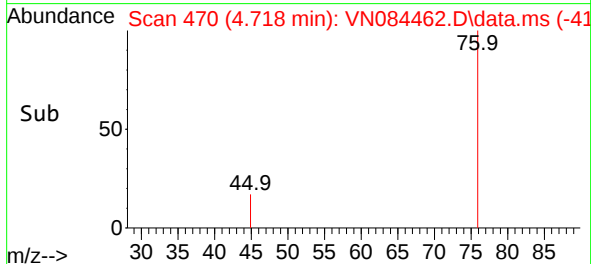
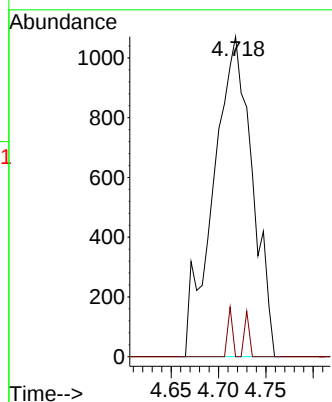
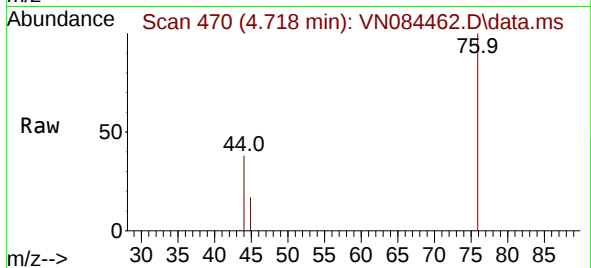




#17
Carbon Disulfide
Concen: 0.510 ug/l
RT: 4.718 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

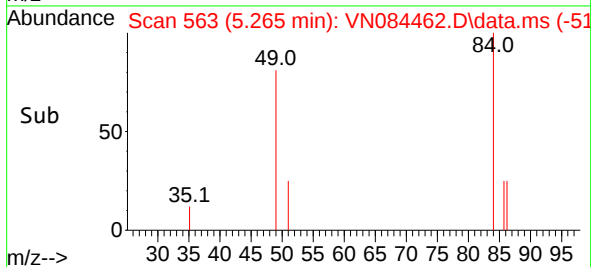
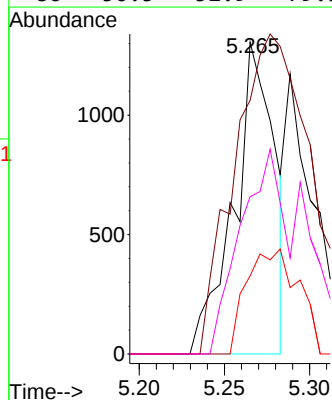
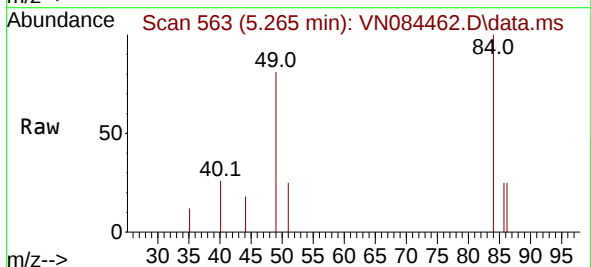
Instrument :
MSVOA_N
ClientSampleId :
WB-301-BOT

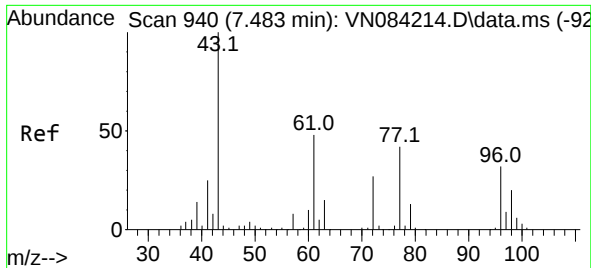
Tgt Ion: 76 Resp: 3058
Ion Ratio Lower Upper
76 100
78 0.0 7.3 10.9#



#20
Methylene Chloride
Concen: 0.982 ug/l
RT: 5.265 min Scan# 563
Delta R.T. -0.012 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

Tgt Ion: 84 Resp: 2140
Ion Ratio Lower Upper
84 100
49 81.3 107.2 160.8#
51 25.0 31.8 47.8#
86 50.5 52.9 79.3#

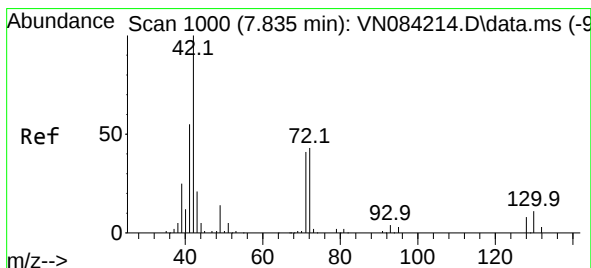
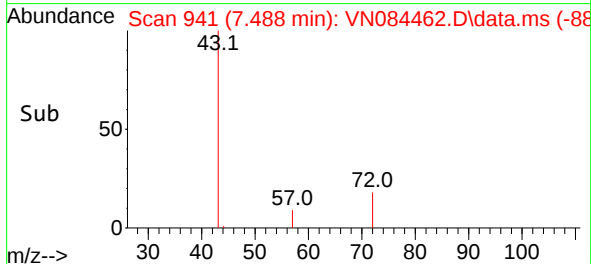
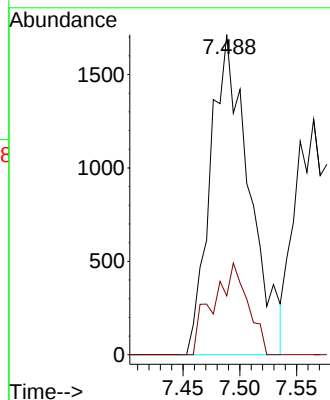
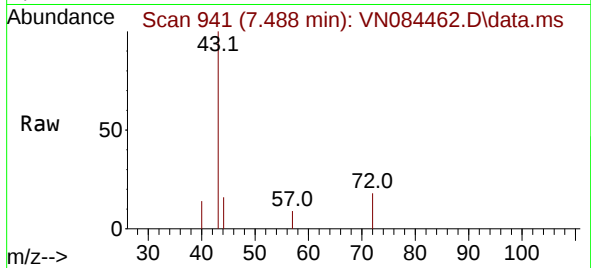




#25
2-Butanone
Concen: 2.799 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

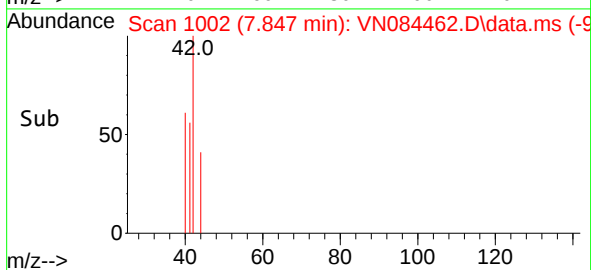
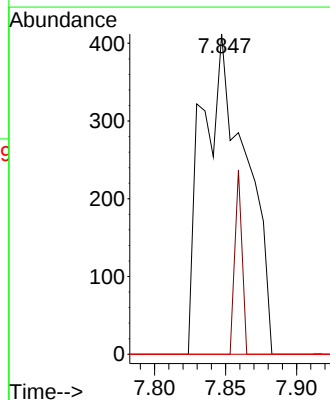
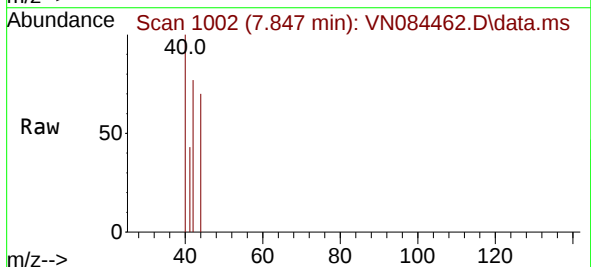
Instrument :
MSVOA_N
ClientSampleId :
WB-301-BOT

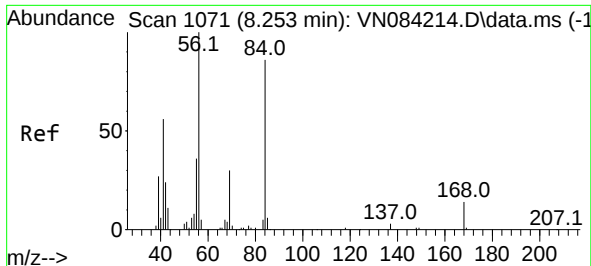
Tgt Ion: 43 Resp: 4085
Ion Ratio Lower Upper
43 100
72 18.4 21.4 32.2#



#29
Tetrahydrofuran
Concen: 0.983 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.012 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

Tgt Ion: 42 Resp: 885
Ion Ratio Lower Upper
42 100
72 9.5 34.6 51.8#
71 0.0 32.2 48.4#

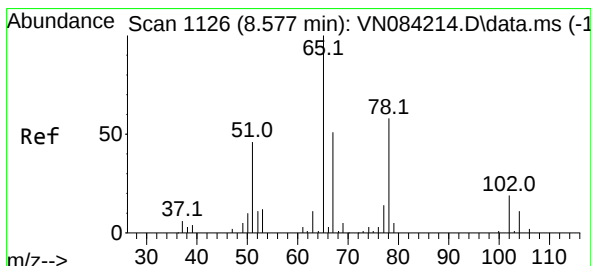
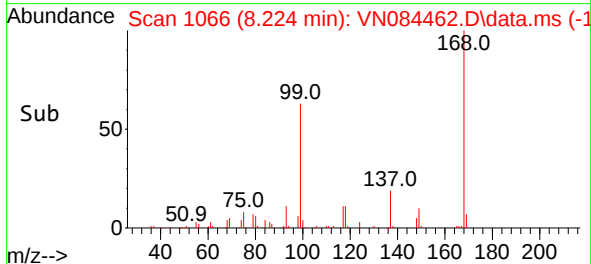
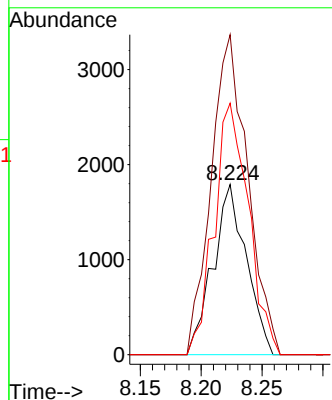
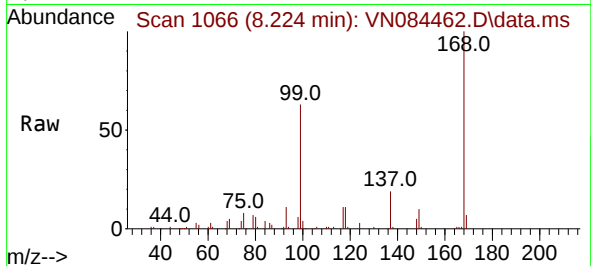




#31
Cyclohexane
Concen: 0.924 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

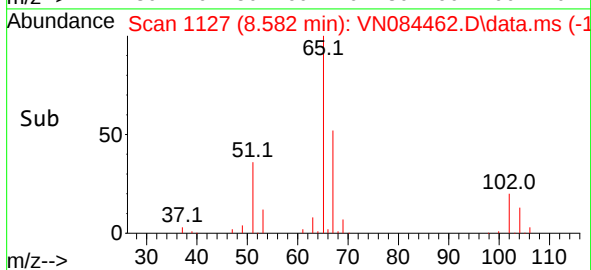
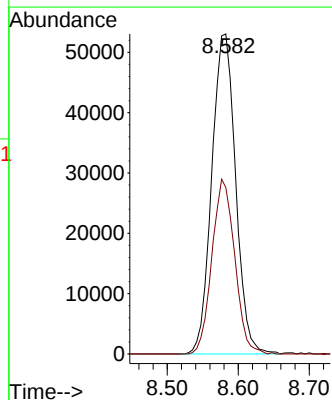
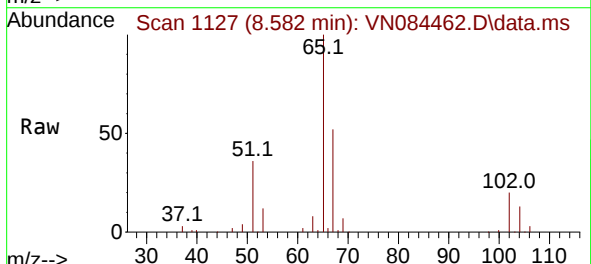
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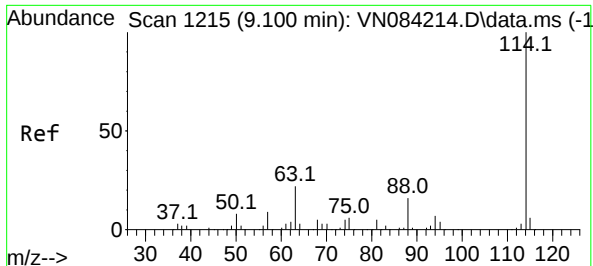
Tgt Ion: 56 Resp: 3413
Ion Ratio Lower Upper
56 100
69 188.0 23.8 35.6#
84 147.7 68.8 103.2#



#33
1,2-Dichloroethane-d4
Concen: 49.580 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

Tgt Ion: 65 Resp: 123682
Ion Ratio Lower Upper
65 100
67 52.2 0.0 102.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN084462.D

Acq: 22 Oct 2024 18:21

Instrument :

MSVOA_N

ClientSampleId :

WB-301-BOT

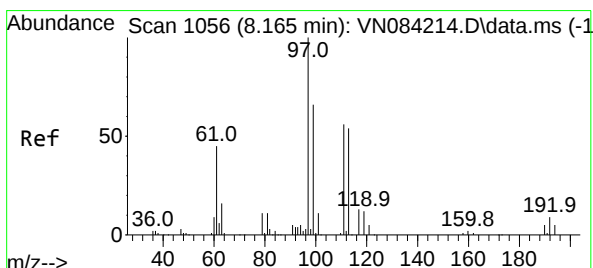
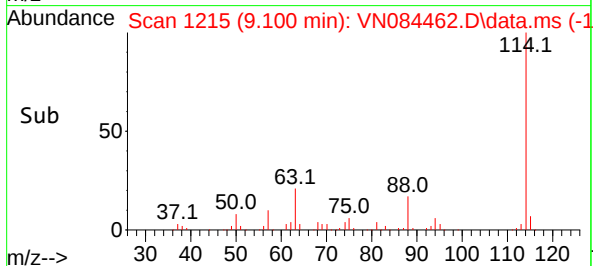
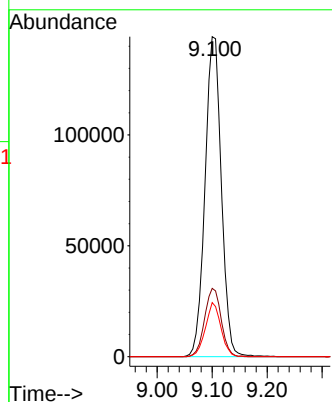
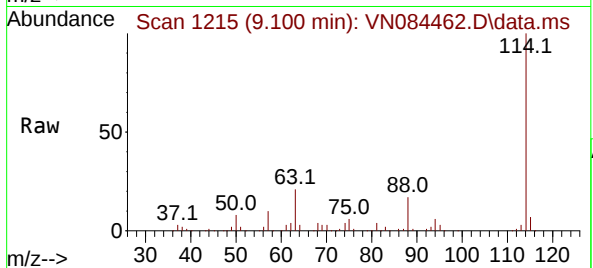
Tgt Ion:114 Resp: 297819

Ion Ratio Lower Upper

114 100

63 21.3 0.0 43.8

88 16.9 0.0 31.6



#35

Dibromofluoromethane

Concen: 50.014 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN084462.D

Acq: 22 Oct 2024 18:21

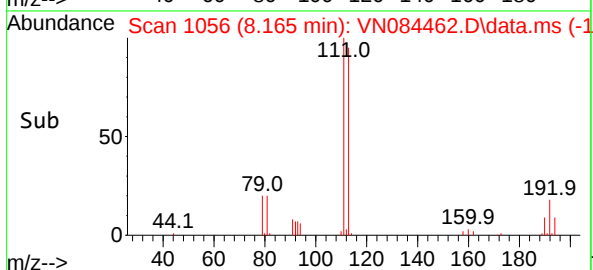
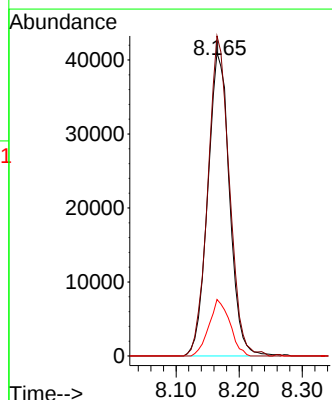
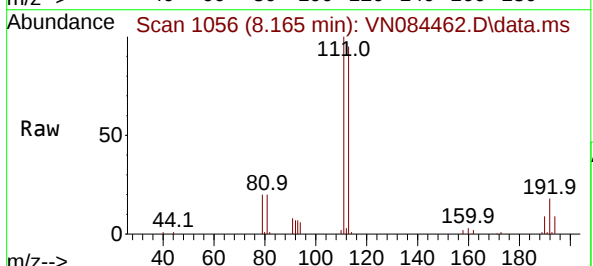
Tgt Ion:113 Resp: 98197

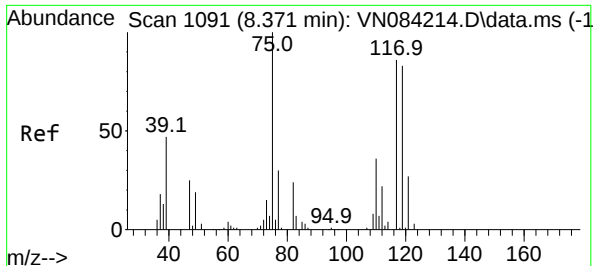
Ion Ratio Lower Upper

113 100

111 104.3 83.3 124.9

192 17.8 13.5 20.3





#36

1,1-Dichloropropene

Concen: 4.959 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN084462.D

Acq: 22 Oct 2024 18:21

Instrument :

MSVOA_N

ClientSampleId :

WB-301-BOT

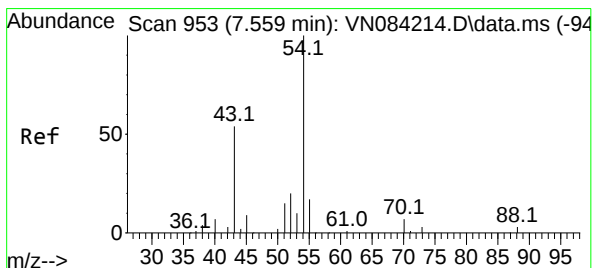
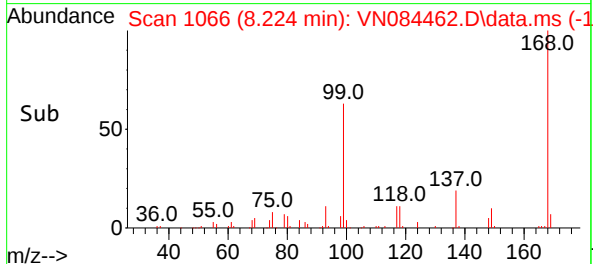
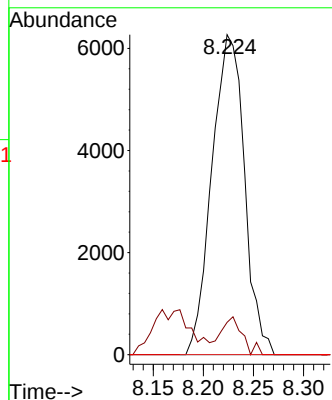
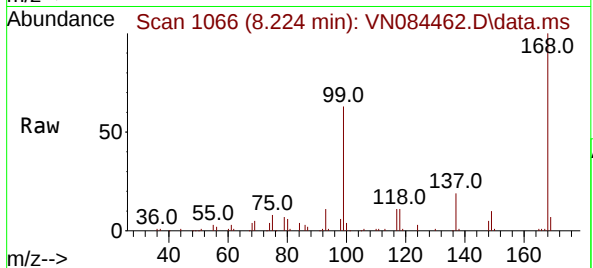
Tgt Ion: 75 Resp: 14144

Ion Ratio Lower Upper

75 100

110 8.0 16.9 50.7#

77 0.0 24.7 37.1#



#37

Ethyl Acetate

Concen: 1.004 ug/l

RT: 7.565 min Scan# 954

Delta R.T. 0.006 min

Lab File: VN084462.D

Acq: 22 Oct 2024 18:21

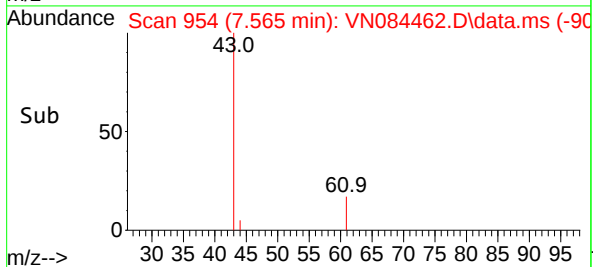
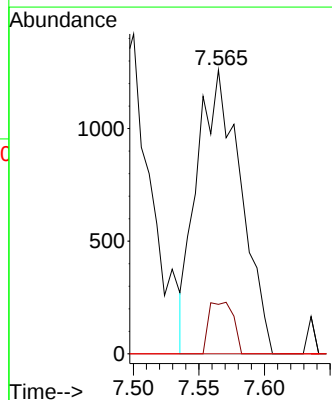
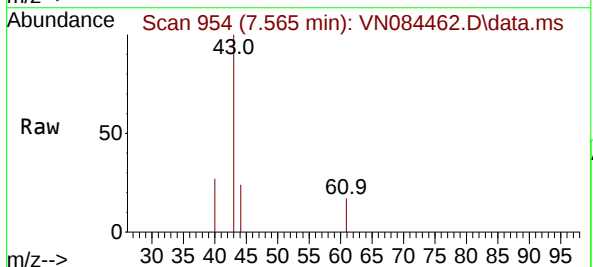
Tgt Ion: 43 Resp: 2937

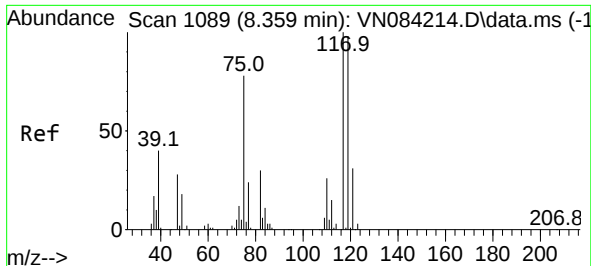
Ion Ratio Lower Upper

43 100

61 10.1 10.7 16.1#

70 0.0 8.8 13.2#

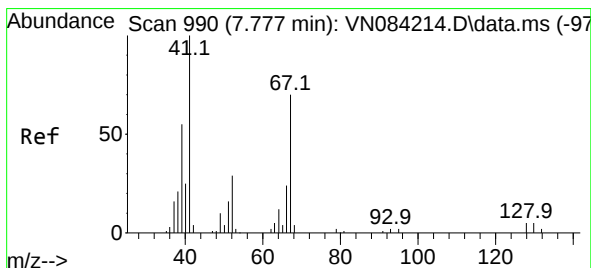
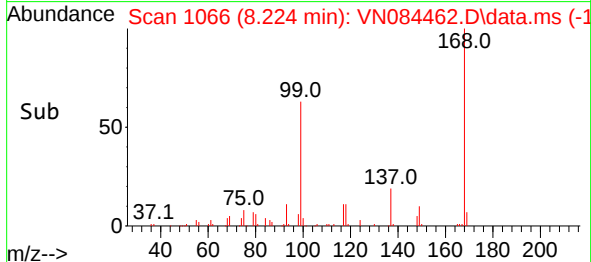
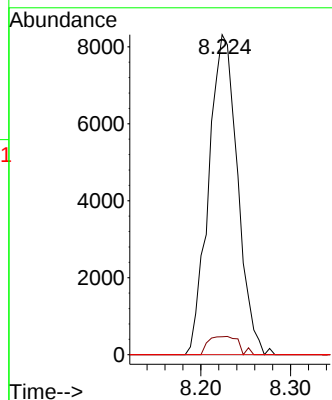
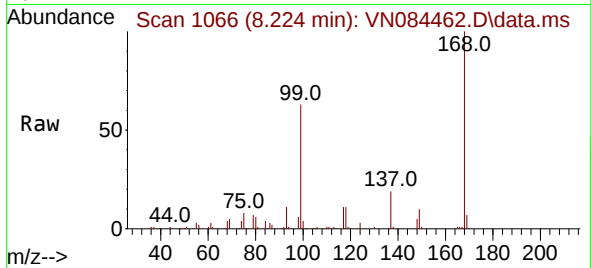




#38
Carbon Tetrachloride
Concen: 5.943 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

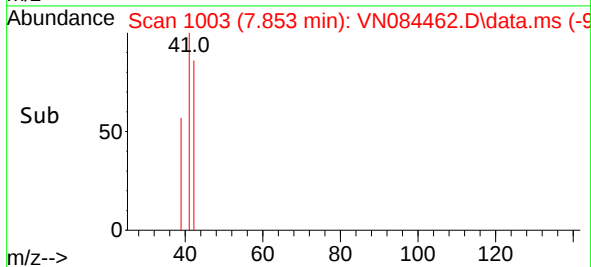
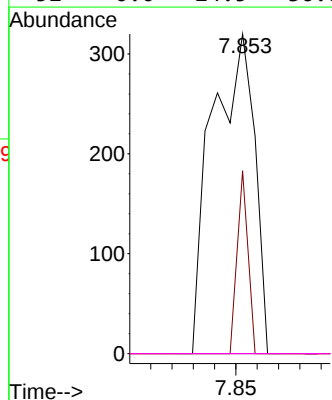
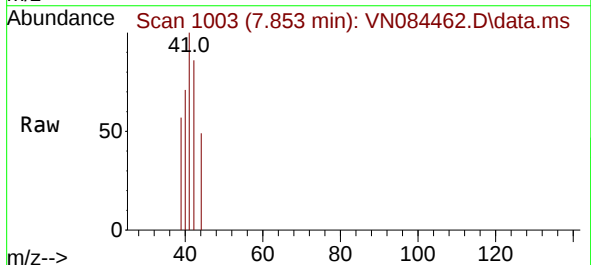
Instrument :
MSVOA_N
ClientSampleId :
WB-301-BOT

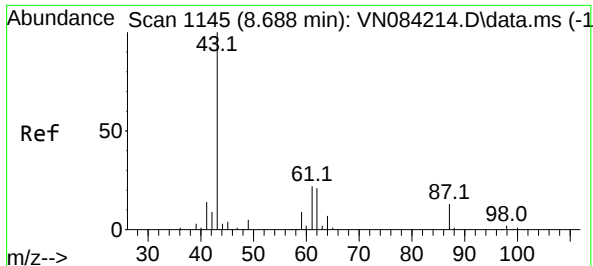
Tgt Ion:117 Resp: 18593
Ion Ratio Lower Upper
117 100
119 5.6 78.7 118.1#
121 0.0 24.4 36.6#



#41
Methacrylonitrile
Concen: 0.278 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.076 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

Tgt Ion: 41 Resp: 442
Ion Ratio Lower Upper
41 100
39 14.7 43.3 64.9#
67 0.0 56.1 84.1#
52 0.0 24.5 36.7#

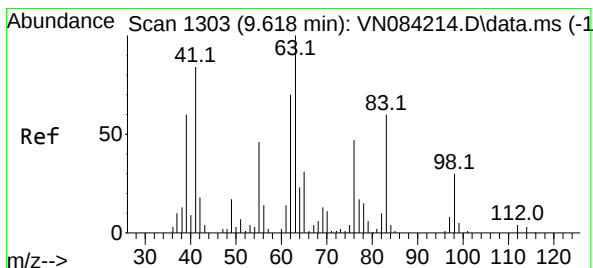
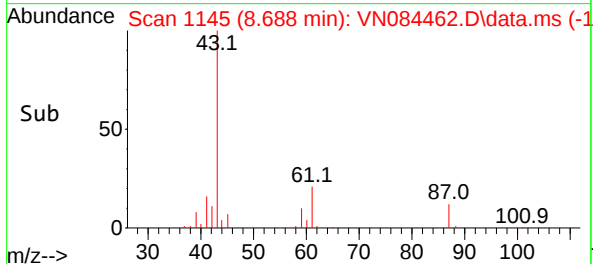
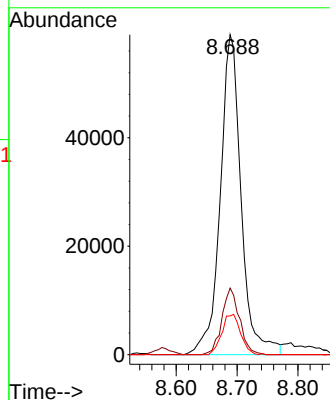
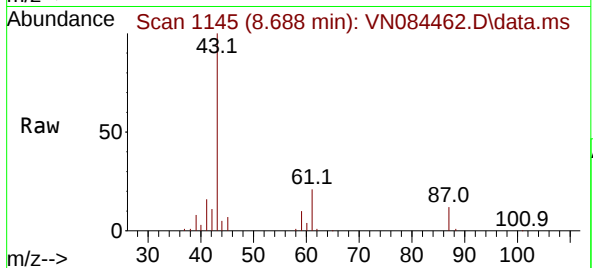




#43
Isopropyl Acetate
Concen: 24.618 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. -0.000 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

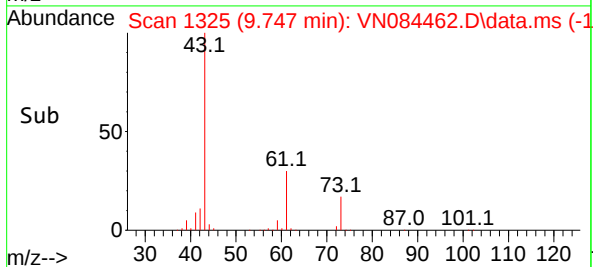
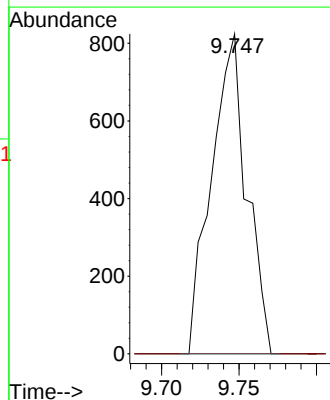
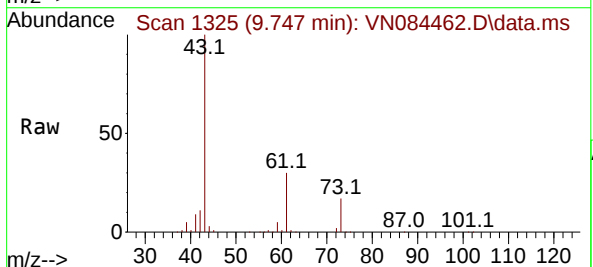
Instrument :
MSVOA_N
ClientSampleId :
WB-301-BOT

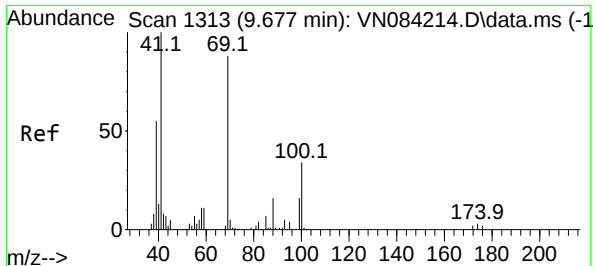
Tgt Ion: 43 Resp: 141080
Ion Ratio Lower Upper
43 100
61 17.5 20.4 30.6#
87 11.3 10.3 15.5



#45
1,2-Dichloropropane
Concen: 0.621 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.129 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

Tgt Ion: 63 Resp: 1306
Ion Ratio Lower Upper
63 100
65 0.0 24.6 37.0#





#48

Methyl methacrylate

Concen: 1.473 ug/l

RT: 9.671 min Scan# 1312

Delta R.T. -0.006 min

Lab File: VN084462.D

Acq: 22 Oct 2024 18:21

Instrument :

MSVOA_N

ClientSampleId :

WB-301-BOT

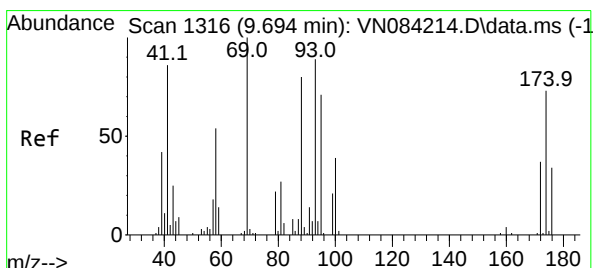
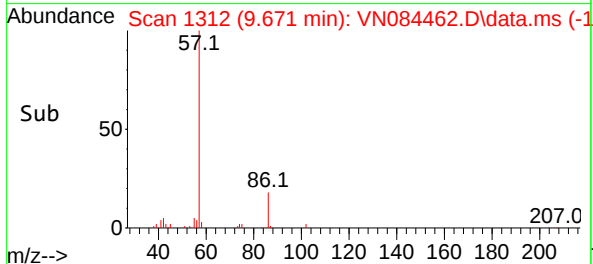
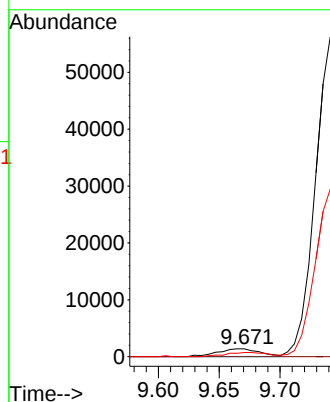
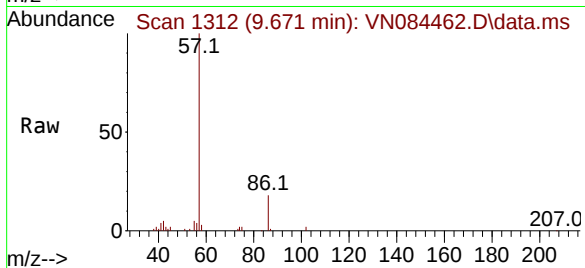
Tgt Ion: 41 Resp: 3360

Ion Ratio Lower Upper

41 100

69 0.0 67.1 100.7#

39 50.5 45.8 68.6



#49

1,4-Dioxane

Concen: 1.429 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.041 min

Lab File: VN084462.D

Acq: 22 Oct 2024 18:21

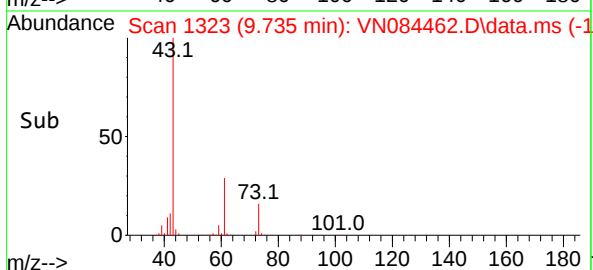
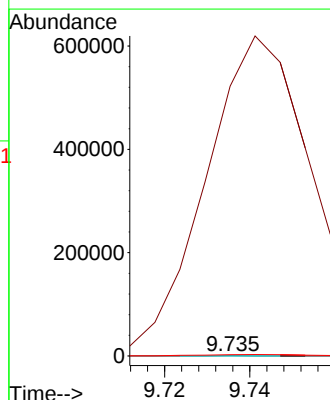
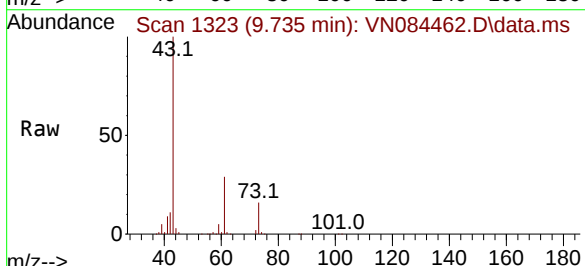
Tgt Ion: 88 Resp: 60

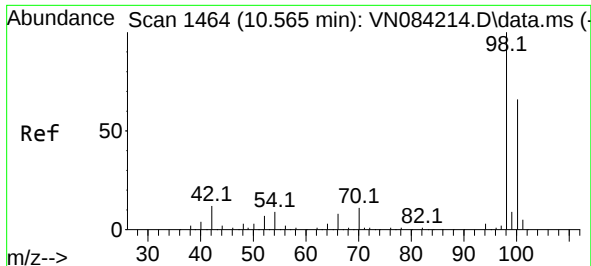
Ion Ratio Lower Upper

88 100

43 1843681.7 25.3 37.9#

58 8830.0 56.4 84.6#

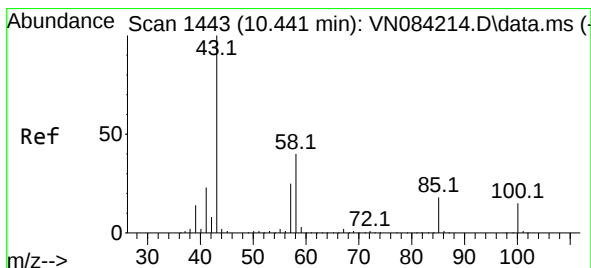
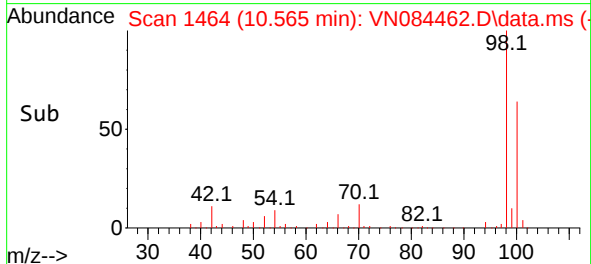
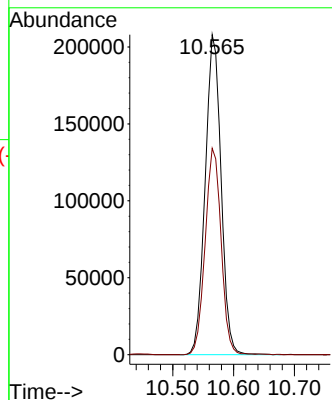
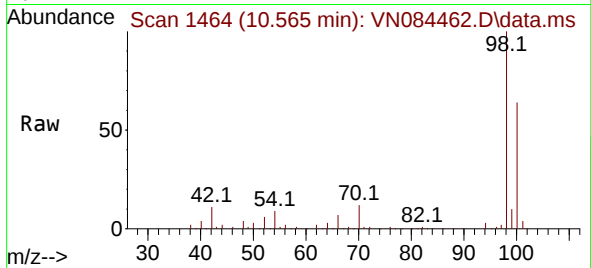




#50
Toluene-d8
Concen: 52.092 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

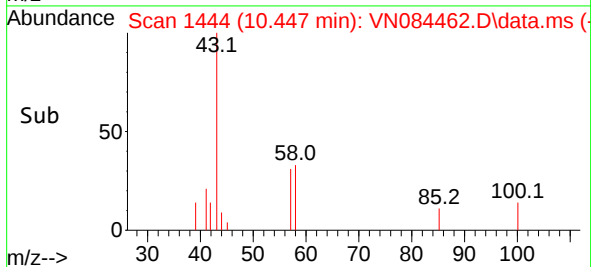
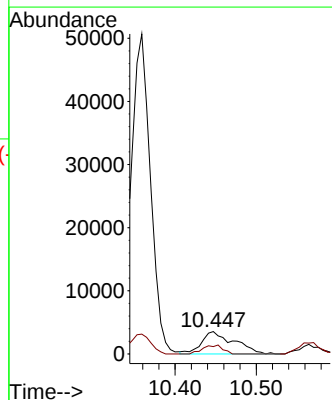
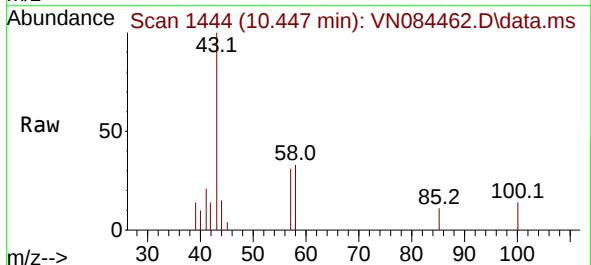
Instrument :
MSVOA_N
ClientSampleId :
WB-301-BOT

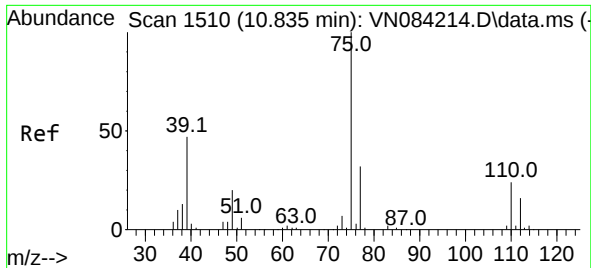
Tgt Ion: 98 Resp: 376295
Ion Ratio Lower Upper
98 100
100 64.8 52.7 79.1



#51
4-Methyl-2-Pentanone
Concen: 3.545 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

Tgt Ion: 43 Resp: 9873
Ion Ratio Lower Upper
43 100
58 24.2 31.6 47.4#

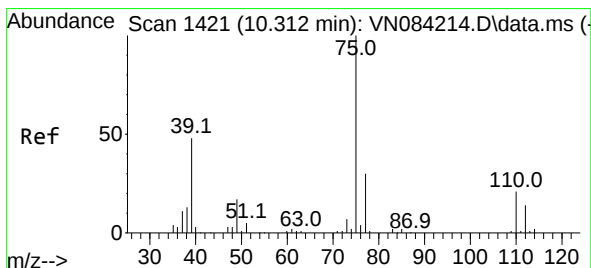
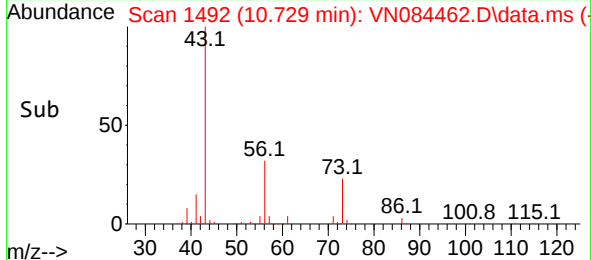
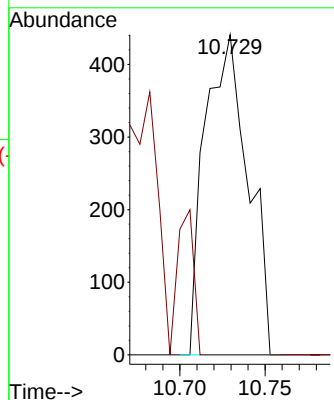
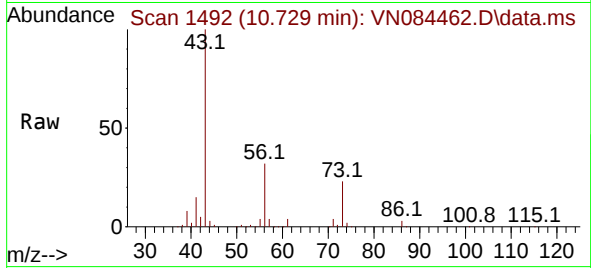




#53
 t-1,3-Dichloropropene
 Concen: 0.242 ug/l
 RT: 10.729 min Scan# 1492
 Delta R.T. -0.106 min
 Lab File: VN084462.D
 Acq: 22 Oct 2024 18:21

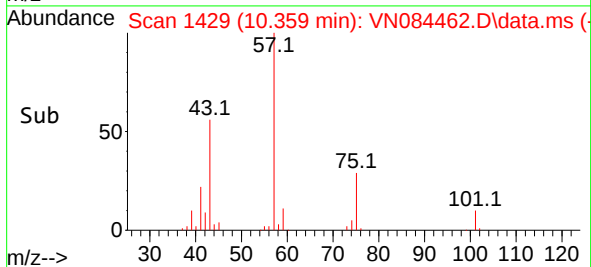
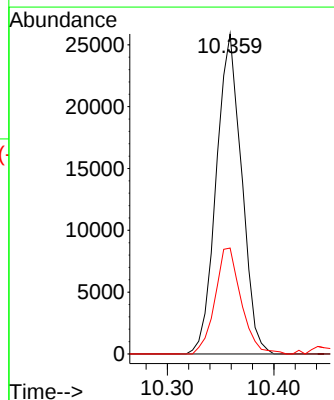
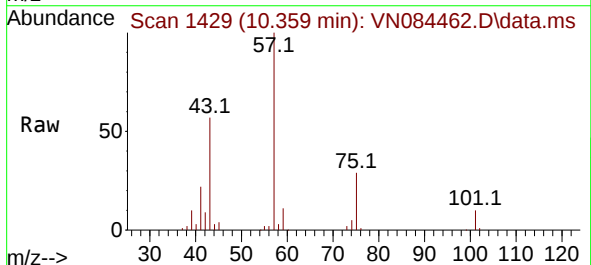
Instrument :
 MSVOA_N
 ClientSampleId :
 WB-301-BOT

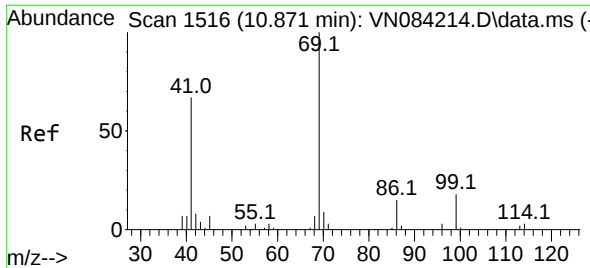
Tgt Ion: 75 Resp: 778
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#



#54
 cis-1,3-Dichloropropene
 Concen: 12.369 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN084462.D
 Acq: 22 Oct 2024 18:21

Tgt Ion: 75 Resp: 42740
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.2 36.2#
 39 33.1 38.7 58.1#

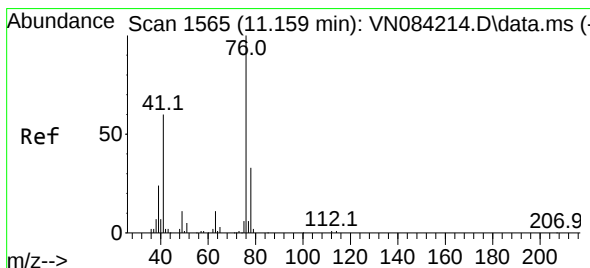
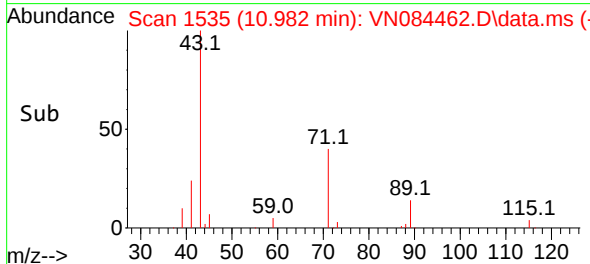
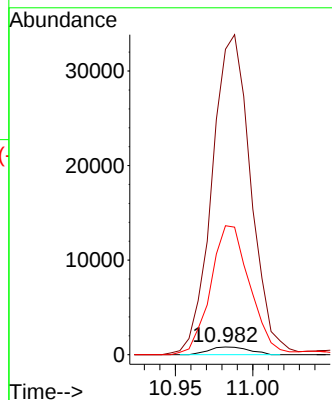
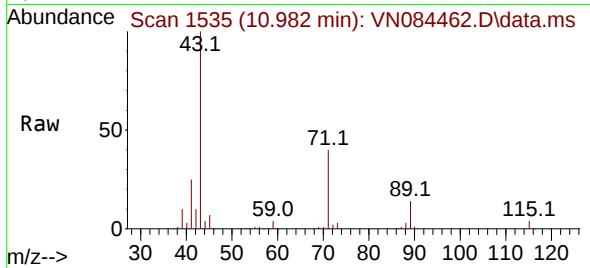




#56
Ethyl methacrylate
Concen: 0.460 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.112 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

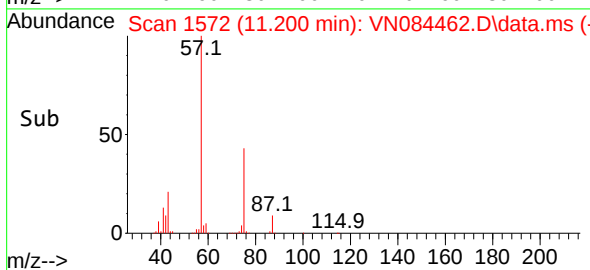
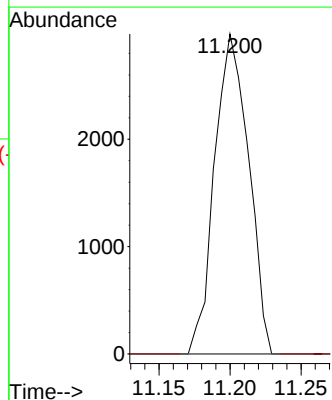
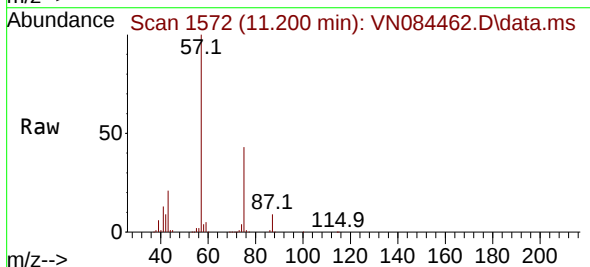
Instrument :
MSVOA_N
ClientSampleId :
WB-301-BOT

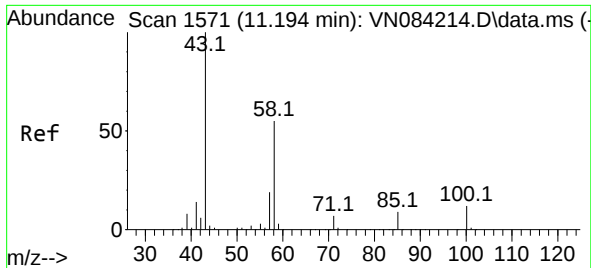
Tgt Ion: 69 Resp: 1469
Ion Ratio Lower Upper
69 100
41 4014.2 53.3 79.9#
39 1644.3 28.8 43.2#



#57
1,3-Dichloropropane
Concen: 1.434 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

Tgt Ion: 76 Resp: 4977
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#

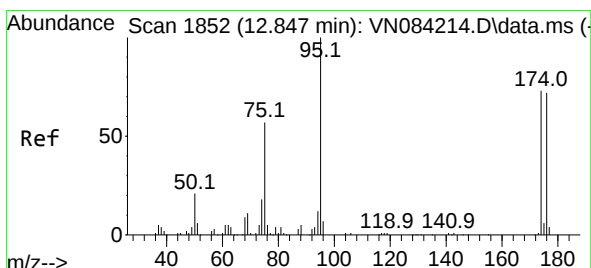
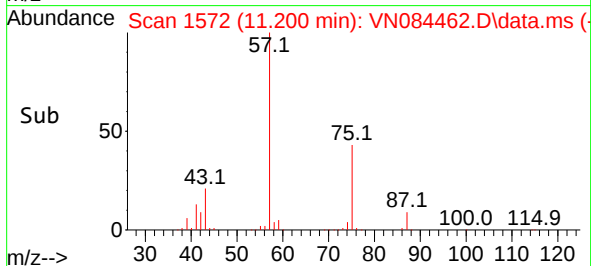
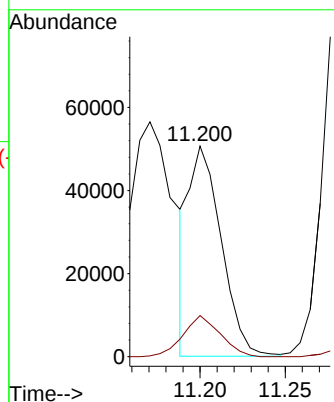
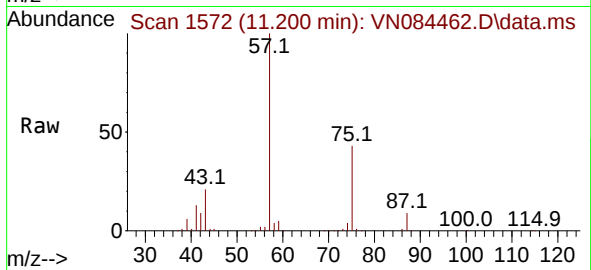




#59
2-Hexanone
Concen: 32.349 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

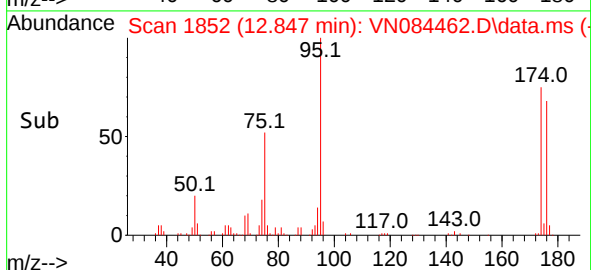
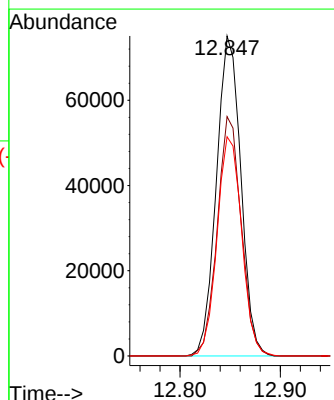
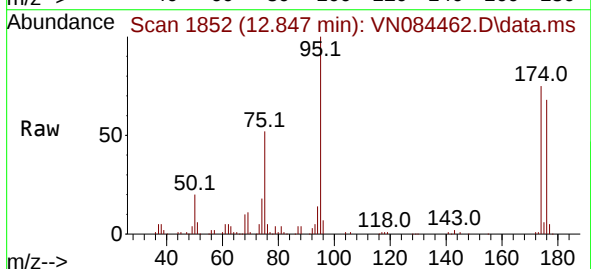
Instrument :
MSVOA_N
ClientSampleId :
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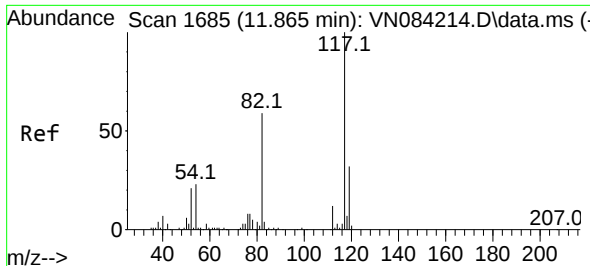
Tgt Ion: 43 Resp: 67343
Ion Ratio Lower Upper
43 100
58 22.3 27.3 81.8#



#62
4-Bromofluorobenzene
Concen: 48.344 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

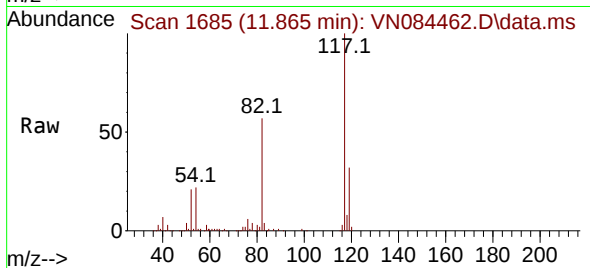
Tgt Ion: 95 Resp: 127222
Ion Ratio Lower Upper
95 100
174 73.3 0.0 145.2
176 69.0 0.0 140.0



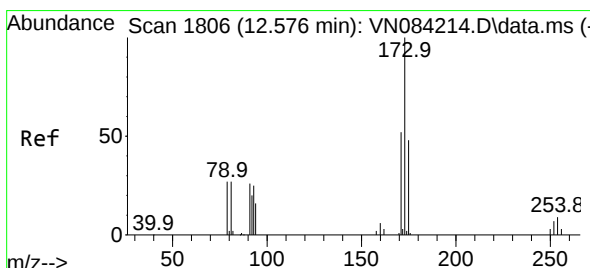
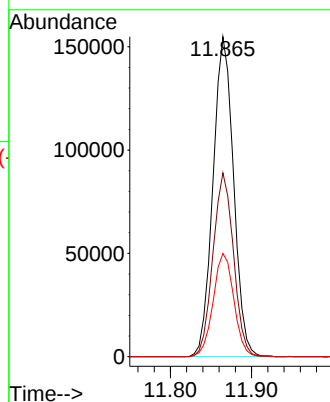
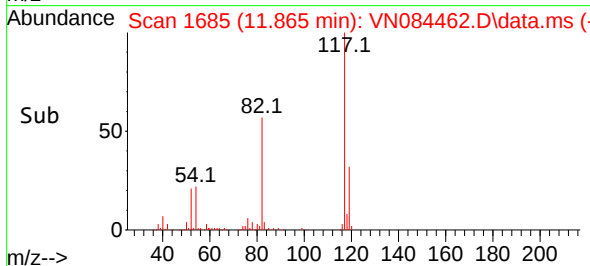


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11851
Delta R.T. -0.000 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

Instrument :
MSVOA_N
ClientSampleId :
WB-301-BOT

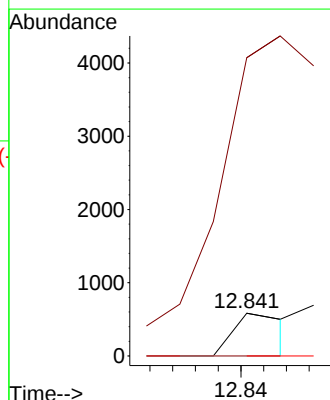
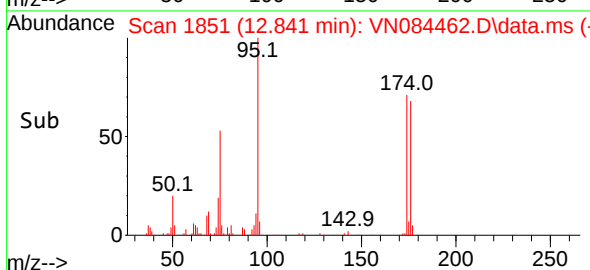
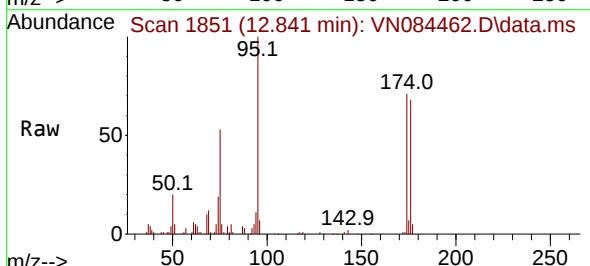


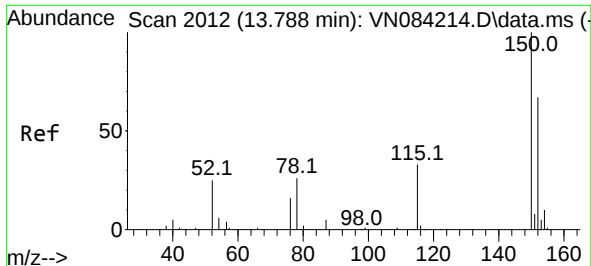
Tgt Ion:117 Resp: 273036
Ion Ratio Lower Upper
117 100
82 57.4 47.2 70.8
119 32.3 25.4 38.0



#71
Bromoform
Concen: 0.249 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. 0.265 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

Tgt Ion:173 Resp: 382
Ion Ratio Lower Upper
173 100
175 1418.1 23.5 70.6#
254 0.0 0.0 0.0

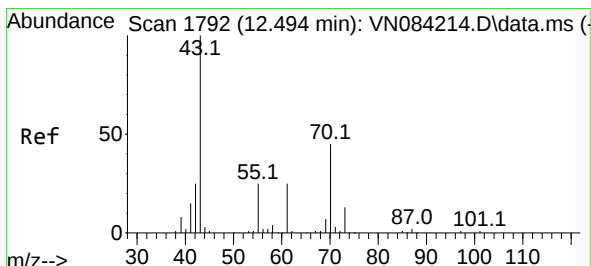
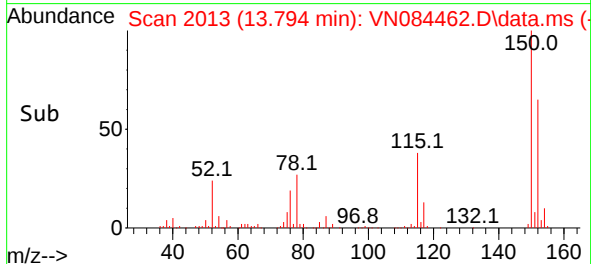
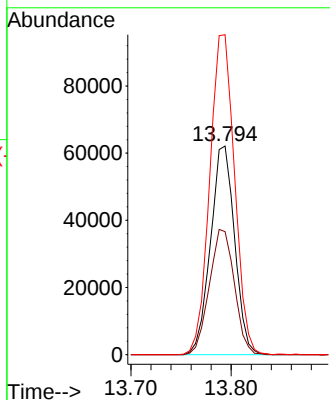
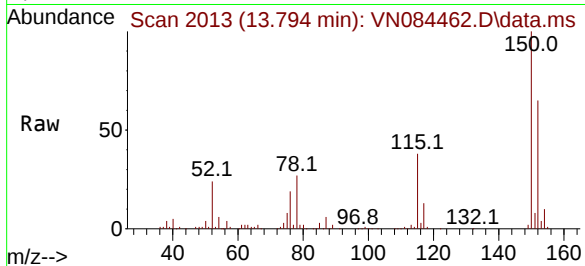




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

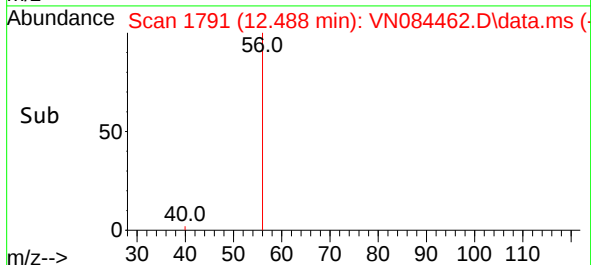
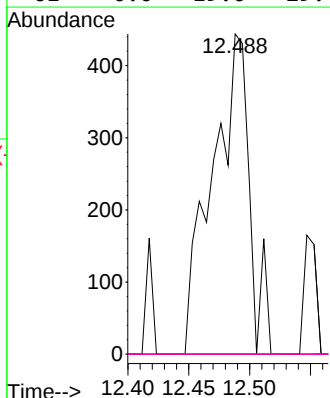
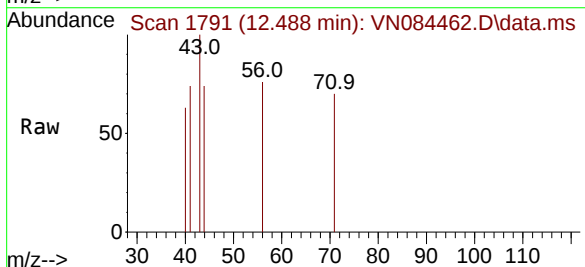
Instrument :
MSVOA_N
ClientSampleId :
WB-301-BOT

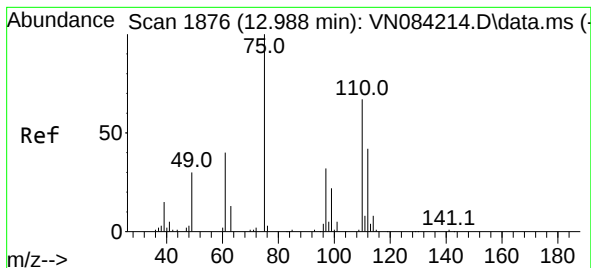
Tgt Ion:152 Resp: 103880
Ion Ratio Lower Upper
152 100
115 62.2 31.3 93.9
150 157.9 0.0 349.8



#74
N-ethyl acetate
Concen: 0.262 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.006 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

Tgt Ion: 43 Resp: 942
Ion Ratio Lower Upper
43 100
70 0.0 34.4 51.6#
55 0.0 19.6 29.4#
61 0.0 19.6 29.4#





#76

1,2,3-Trichloropropane

Concen: 30.409 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN084462.D

Acq: 22 Oct 2024 18:21

Instrument :

MSVOA_N

ClientSampleId :

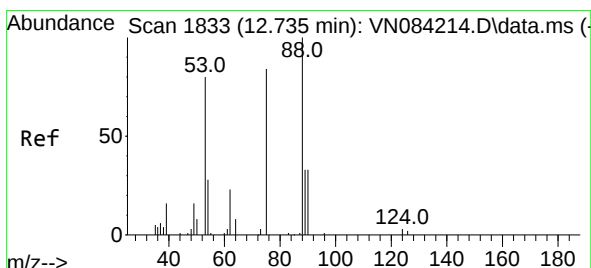
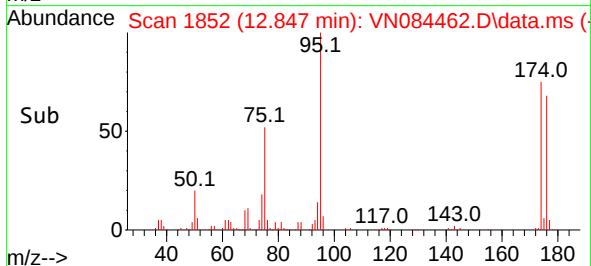
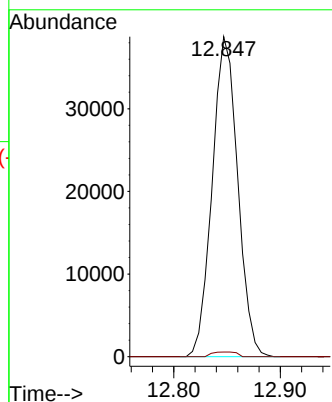
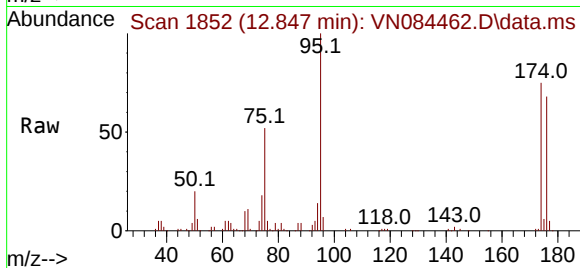
WB-301-BOT

Tgt Ion: 75 Resp: 64490

Ion Ratio Lower Upper

75 100

77 1.4 96.9 290.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 72.905 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN084462.D

Acq: 22 Oct 2024 18:21

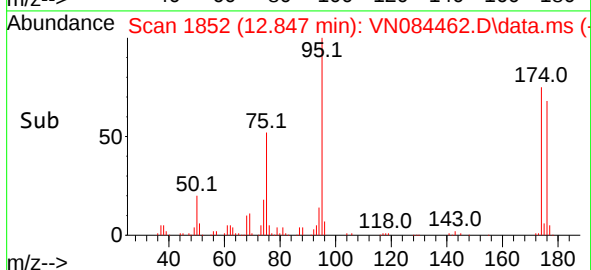
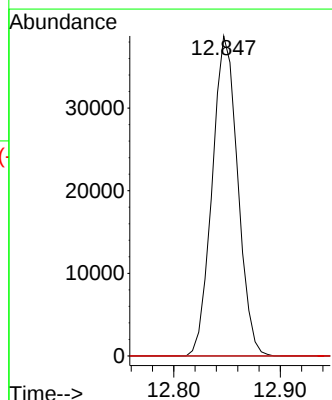
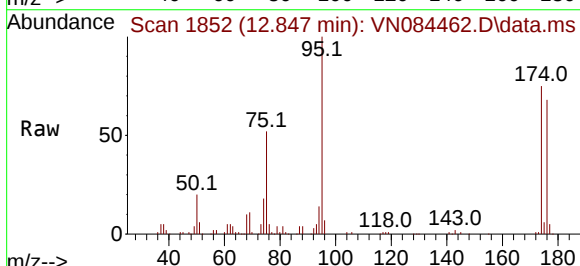
Tgt Ion: 75 Resp: 64490

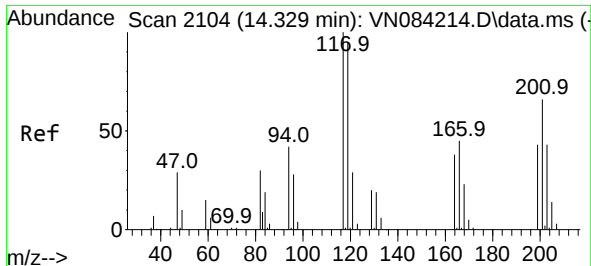
Ion Ratio Lower Upper

75 100

53 0.0 78.0 117.0#

89 0.0 35.5 53.3#

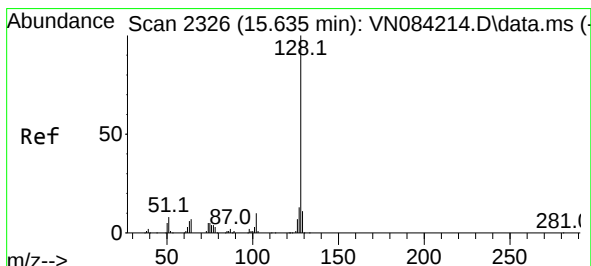
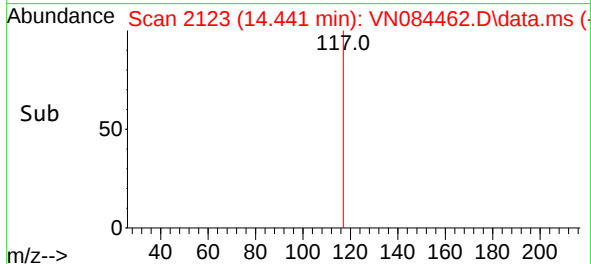
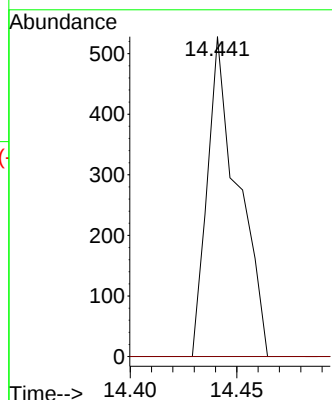
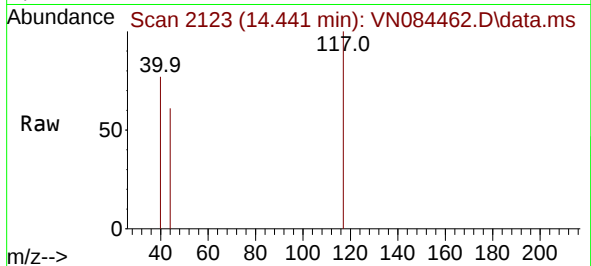




#90
Hexachloroethane
Concen: 0.410 ug/l
RT: 14.441 min Scan# 2104
Delta R.T. 0.112 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

Instrument :
MSVOA_N
ClientSampleId :
WB-301-BOT

Tgt Ion:117 Resp: 528
Ion Ratio Lower Upper
117 100
201 0.0 34.4 103.2#



#95
Naphthalene
Concen: 1.784 ug/l
RT: 15.647 min Scan# 2328
Delta R.T. 0.012 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

Tgt Ion:128 Resp: 10247
Ion Ratio Lower Upper
128 100
127 12.6 10.5 15.7
129 10.1 8.7 13.1

