

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102824\
 Data File : VN084546.D
 Acq On : 28 Oct 2024 17:53
 Operator : JC\MD
 Sample : P4528-01RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

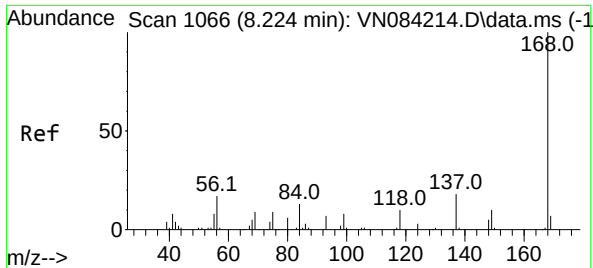
Quant Time: Oct 29 01:31:57 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 07:11:01 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	156261	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	256636	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	218316	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	84904	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	109552	47.285	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	94.560%
35) Dibromofluoromethane	8.165	113	87697	51.833	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	103.660%
50) Toluene-d8	10.565	98	307940	49.471	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	98.940%
62) 4-Bromofluorobenzene	12.847	95	101341	44.689	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	89.380%
Target Compounds						
					Qvalue	
5) Bromomethane	2.965	94	282	0.209	ug/l #	59
8) Diethyl Ether	3.959	74	9664	8.185	ug/l	95
11) Tert butyl alcohol	5.524	59	67036	175.473	ug/l	100
15) Acrylonitrile	5.512	53	352	0.365	ug/l #	12
16) Acetone	4.430	43	1534	1.541	ug/l #	88
19) Methyl tert-butyl Ether	5.795	73	1982	0.334	ug/l #	54
25) 2-Butanone	7.430	43	5123	3.779	ug/l #	48
26) 2,2-Dichloropropane	7.430	77	7393	2.320	ug/l #	54
29) Tetrahydrofuran	7.841	42	86353	103.225	ug/l	97
31) Cyclohexane	8.230	56	3833	1.117	ug/l #	41
36) 1,1-Dichloropropene	8.218	75	14120	5.746	ug/l #	49
37) Ethyl Acetate	7.430	43	5123	2.032	ug/l #	1
38) Carbon Tetrachloride	8.224	117	16815	6.237	ug/l #	16
40) Benzene	8.612	78	4984	0.651	ug/l #	90
41) Methacrylonitrile	7.841	41	50176	36.658	ug/l #	47
43) Isopropyl Acetate	8.671	43	995	0.201	ug/l #	56
48) Methyl methacrylate	9.906	41	968	0.492	ug/l #	22
49) 1,4-Dioxane	9.700	88	5756	159.045	ug/l	95
51) 4-Methyl-2-Pentanone	10.435	43	1436	0.598	ug/l #	36
59) 2-Hexanone	11.059	43	3350	1.867	ug/l	67
65) Chlorobenzene	11.894	112	22409	4.629	ug/l	98
68) m/p-Xylenes	12.077	106	1112	0.351	ug/l #	62
76) 1,2,3-Trichloropropane	12.847	75	52688	30.397	ug/l #	1
79) 2-Chlorotoluene	13.124	91	979	0.204	ug/l	76
81) trans-1,4-Dichloro-2-b...	12.847	75	52688	72.875	ug/l #	11
82) 4-Chlorotoluene	13.124	91	979	0.203	ug/l	76
87) 1,3-Dichlorobenzene	13.812	146	20701	7.061	ug/l	94
88) 1,4-Dichlorobenzene	13.812	146	20701	6.992	ug/l	93
91) 1,2-Dichlorobenzene	14.100	146	1162	0.404	ug/l	96

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

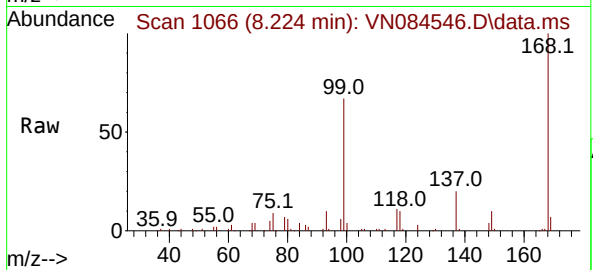
Quant Time: Oct 29 01:31:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration



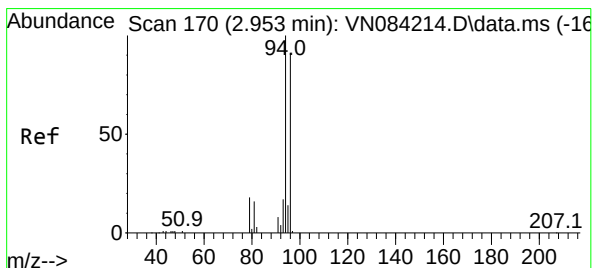
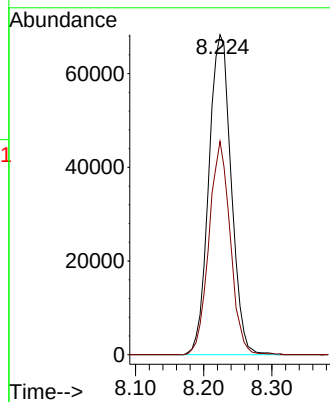
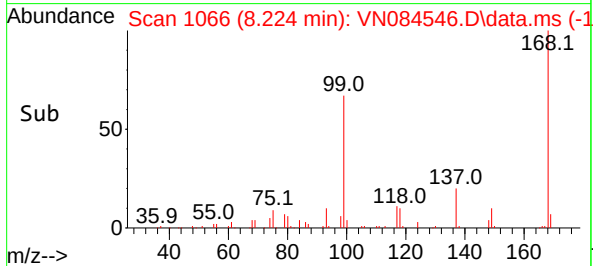


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

Instrument :
MSVOA_N
ClientSampleId :

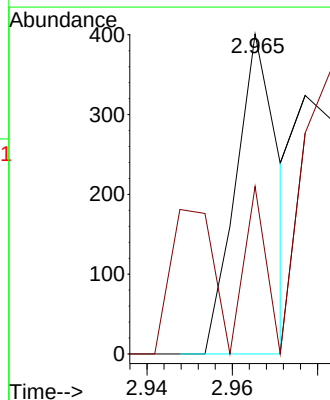
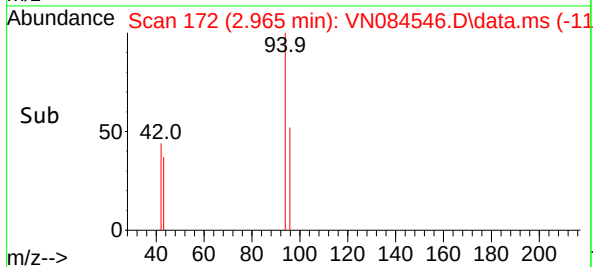
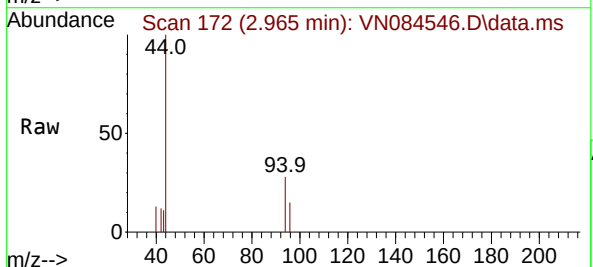


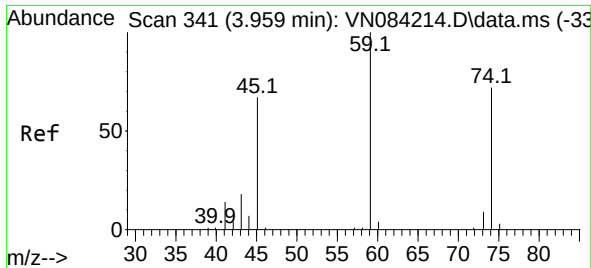
Tgt Ion:168 Resp: 156261
Ion Ratio Lower Upper
168 100
99 66.7 54.2 81.2



#5
Bromomethane
Concen: 0.209 ug/l
RT: 2.965 min Scan# 172
Delta R.T. 0.012 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

Tgt Ion: 94 Resp: 282
Ion Ratio Lower Upper
94 100
96 52.4 72.9 109.3#





#8

Diethyl Ether

Concen: 8.185 ug/l

RT: 3.959 min Scan# 341

Delta R.T. 0.000 min

Lab File: VN084546.D

Acq: 28 Oct 2024 17:53

Instrument :

MSVOA_N

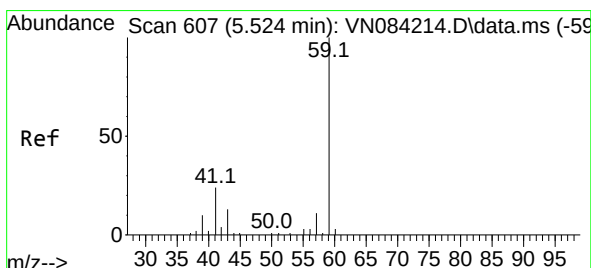
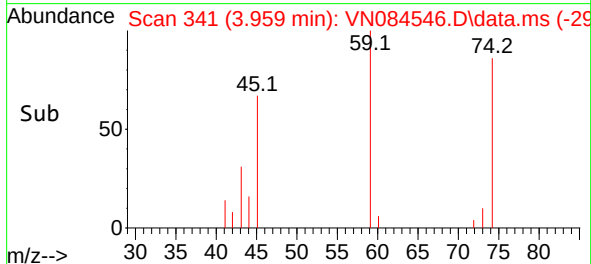
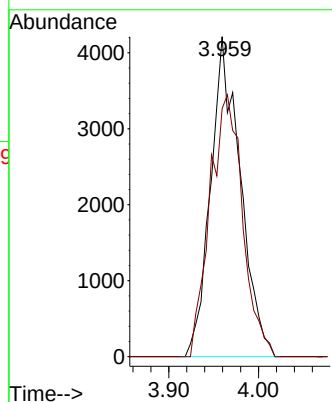
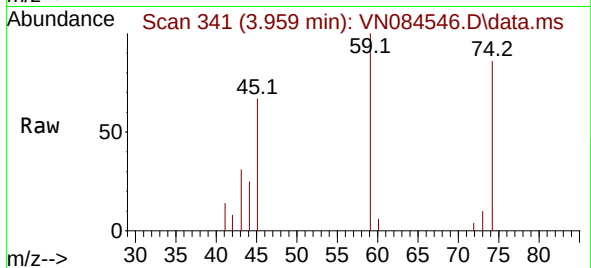
ClientSampleId :

Tgt Ion: 74 Resp: 9664

Ion Ratio Lower Upper

74 100

45 90.2 47.7 143.1



#11

Tert butyl alcohol

Concen: 175.473 ug/l

RT: 5.524 min Scan# 607

Delta R.T. 0.000 min

Lab File: VN084546.D

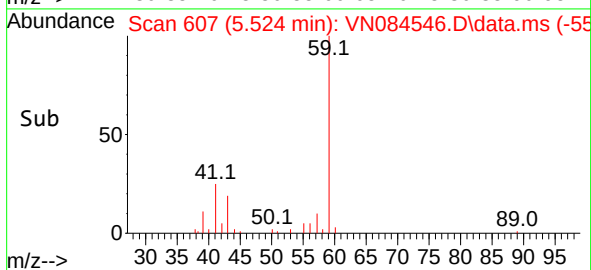
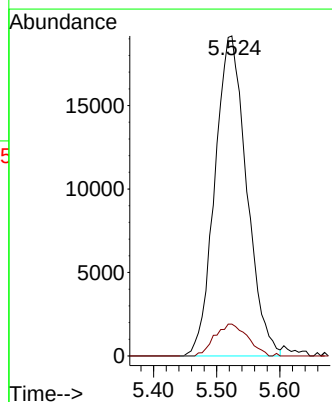
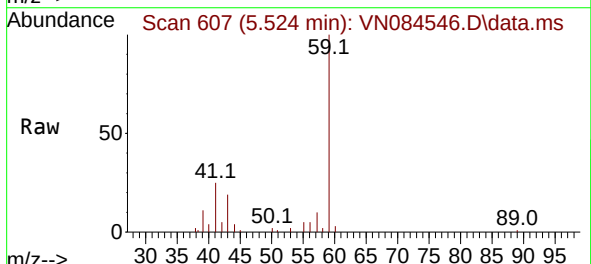
Acq: 28 Oct 2024 17:53

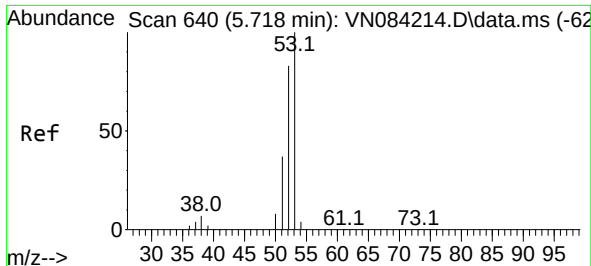
Tgt Ion: 59 Resp: 67036

Ion Ratio Lower Upper

59 100

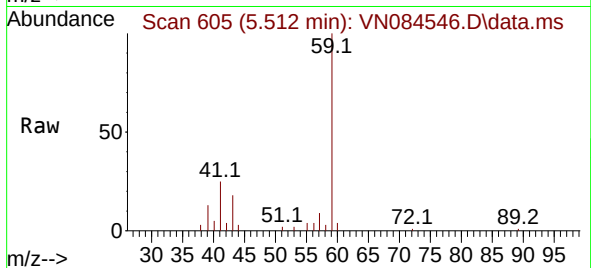
57 10.3 8.2 12.2



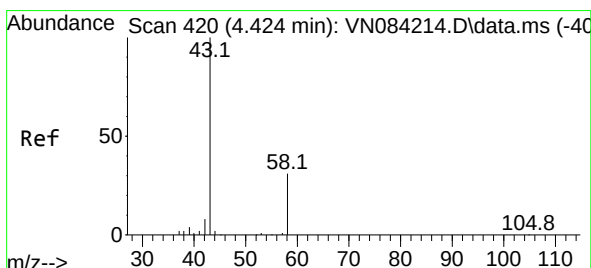
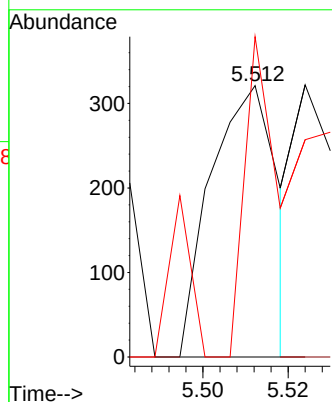
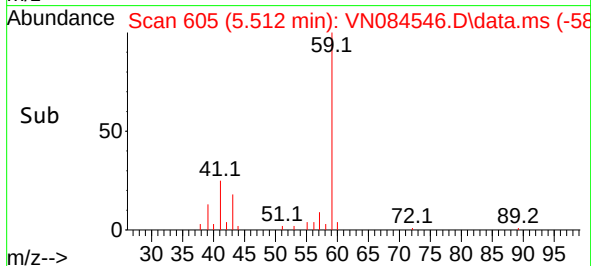


#15
Acrylonitrile
Concen: 0.365 ug/l
RT: 5.512 min Scan# 60
Delta R.T. -0.206 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

Instrument :
MSVOA_N
ClientSampleId :

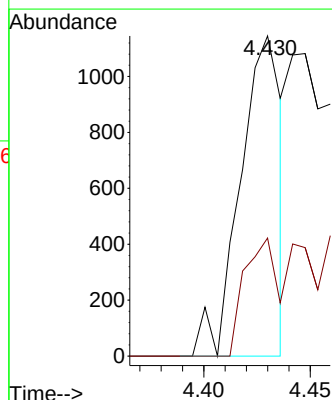
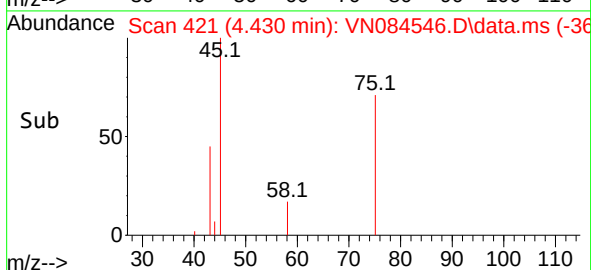
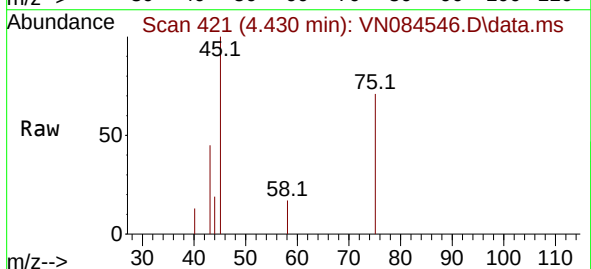


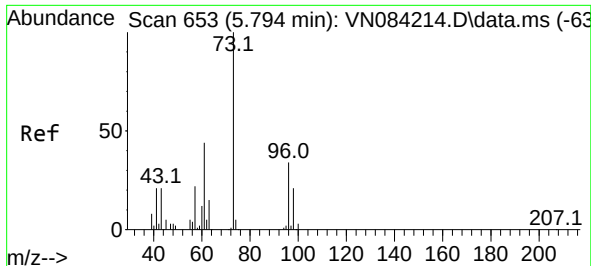
Tgt Ion: 53 Resp: 352
Ion Ratio Lower Upper
53 100
52 0.0 66.2 99.4#
51 81.5 28.8 43.2#



#16
Acetone
Concen: 1.541 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

Tgt Ion: 43 Resp: 1534
Ion Ratio Lower Upper
43 100
58 36.9 24.4 36.6#

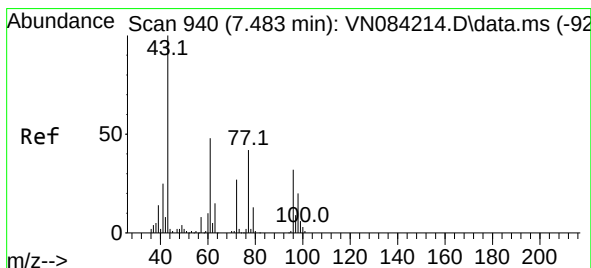
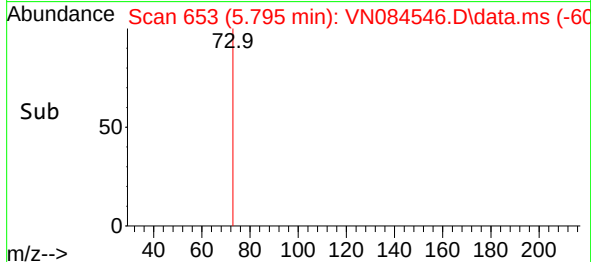
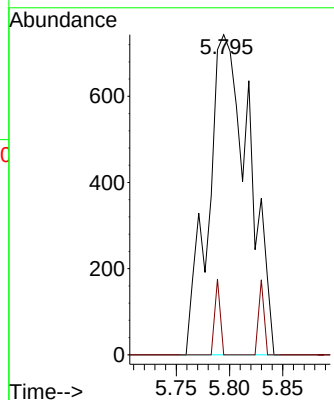
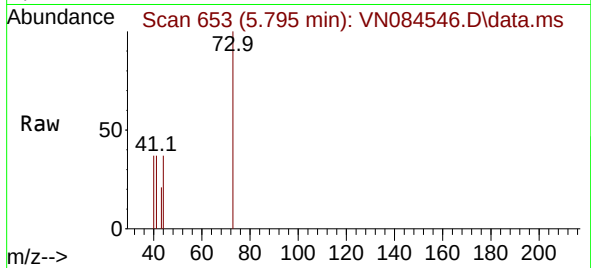




#19
Methyl tert-butyl Ether
Concen: 0.334 ug/l
RT: 5.795 min Scan# 61
Delta R.T. 0.000 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

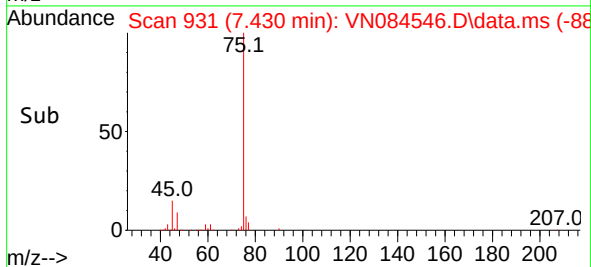
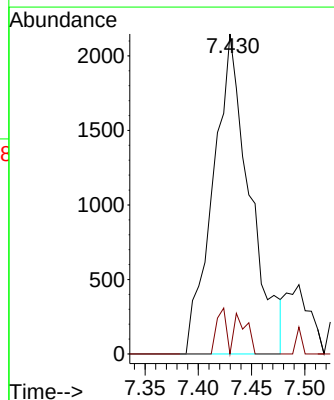
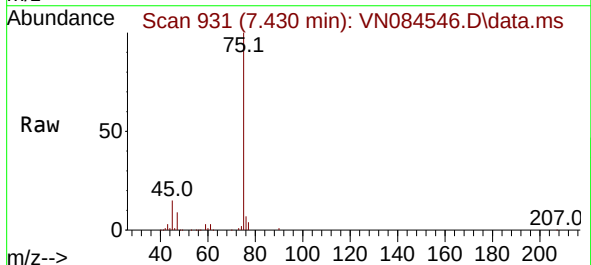
Instrument :
MSVOA_N
ClientSampleId :

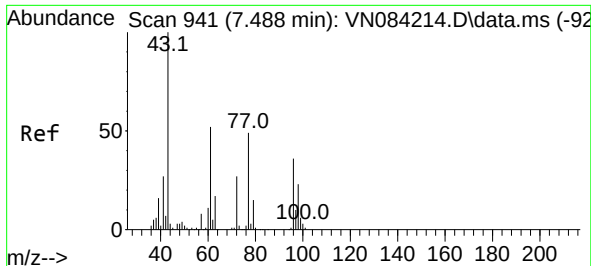
Tgt Ion: 73 Resp: 1982
Ion Ratio Lower Upper
73 100
57 0.0 17.7 26.5#



#25
2-Butanone
Concen: 3.779 ug/l
RT: 7.430 min Scan# 931
Delta R.T. -0.053 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

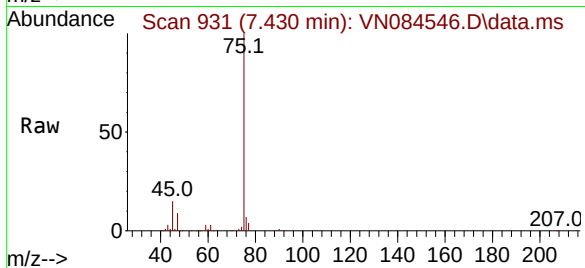
Tgt Ion: 43 Resp: 5123
Ion Ratio Lower Upper
43 100
72 0.0 21.4 32.2#



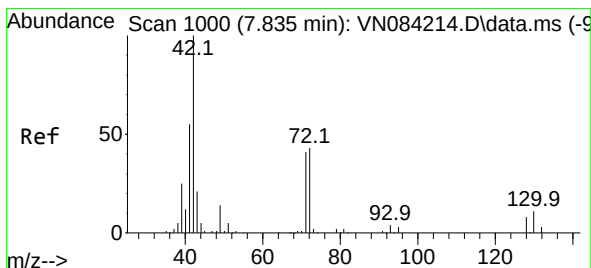
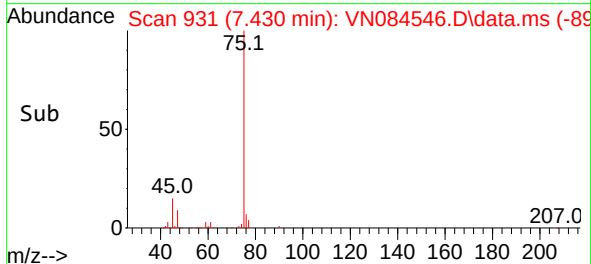
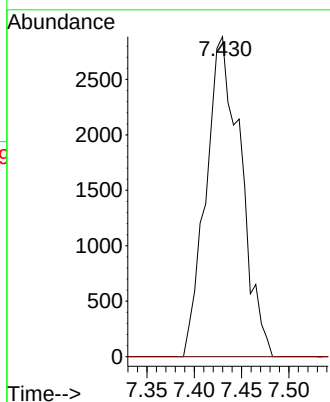


#26
2,2-Dichloropropane
Concen: 2.320 ug/l
RT: 7.430 min Scan# 91
Delta R.T. -0.059 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

Instrument :
MSVOA_N
ClientSampleId :

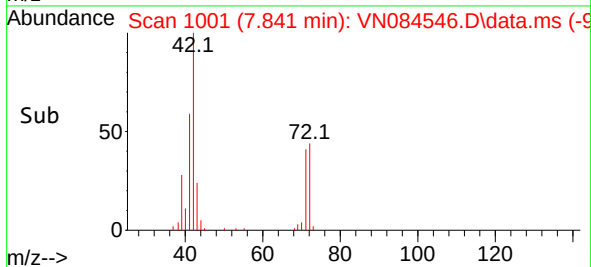
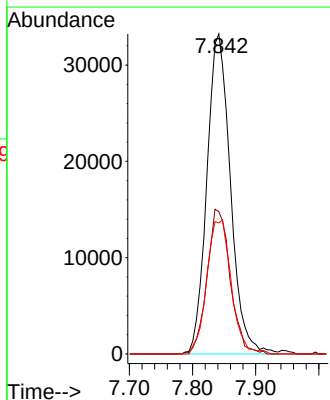
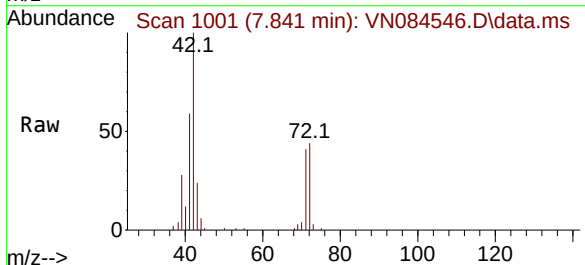


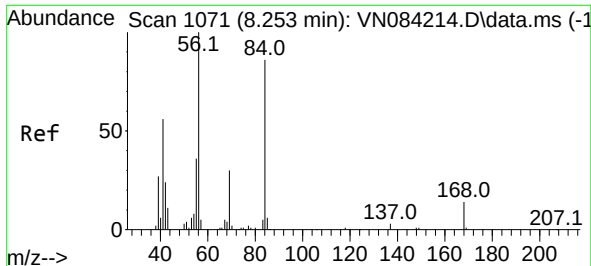
Tgt Ion: 77 Resp: 7393
Ion Ratio Lower Upper
77 100
97 0.0 10.8 32.3#



#29
Tetrahydrofuran
Concen: 103.225 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

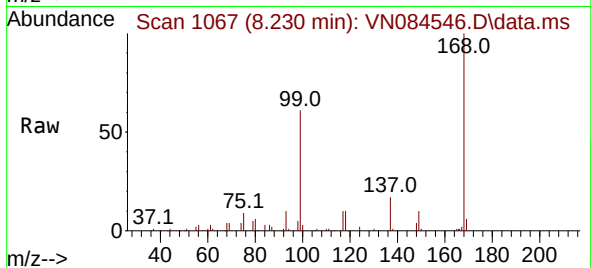
Tgt Ion: 42 Resp: 86353
Ion Ratio Lower Upper
42 100
72 44.3 34.6 51.8
71 43.4 32.2 48.4



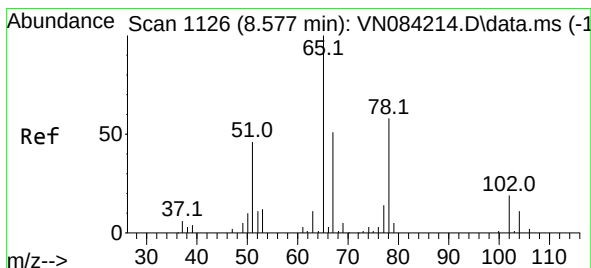
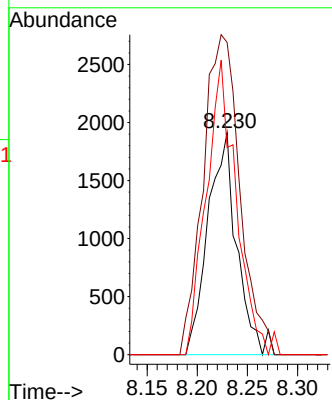
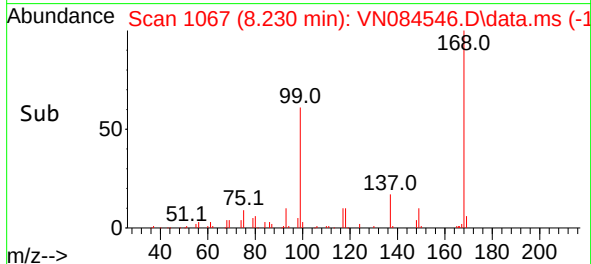


#31
Cyclohexane
Concen: 1.117 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.023 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

Instrument :
MSVOA_N
ClientSampleId :

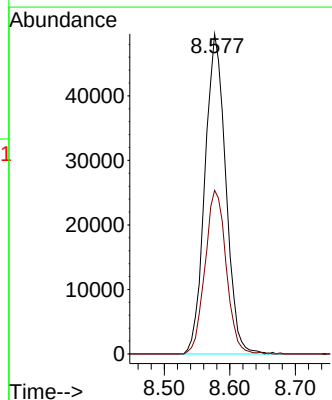
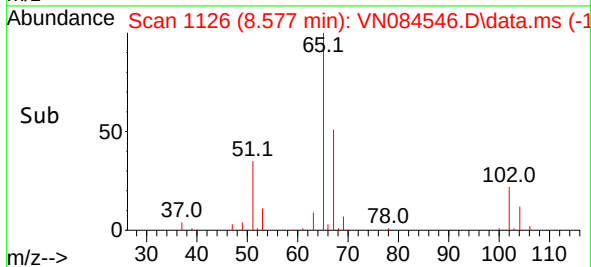
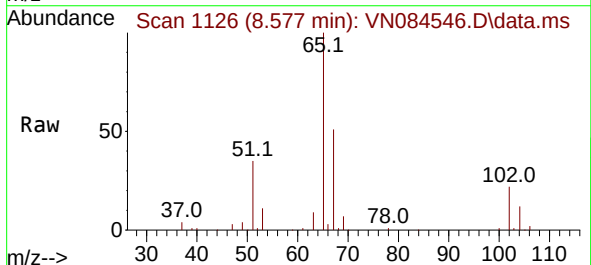


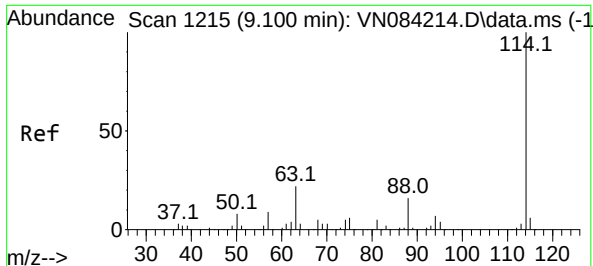
Tgt Ion: 56 Resp: 3833
Ion Ratio Lower Upper
56 100
69 140.7 23.8 35.6#
84 93.3 68.8 103.2



#33
1,2-Dichloroethane-d4
Concen: 47.285 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

Tgt Ion: 65 Resp: 109552
Ion Ratio Lower Upper
65 100
67 51.9 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: VN084546.D

Acq: 28 Oct 2024 17:53

Instrument :

MSVOA_N

ClientSampleId :

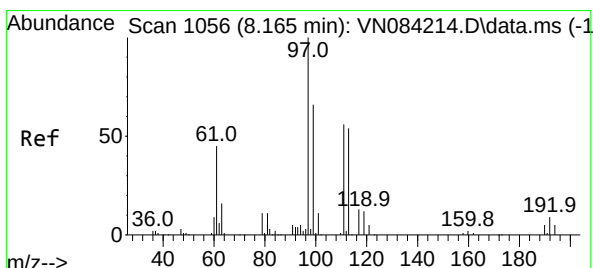
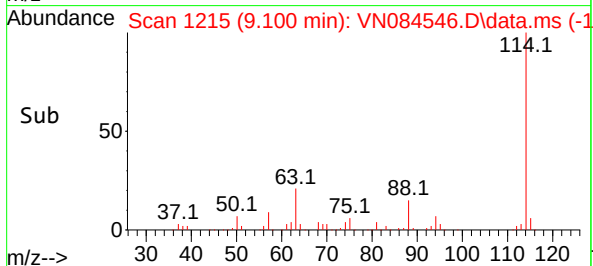
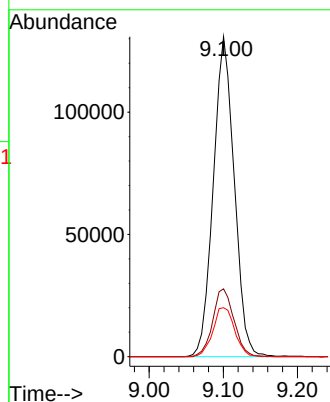
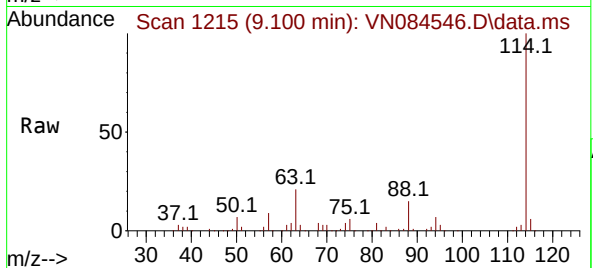
Tgt Ion:114 Resp: 256636

Ion Ratio Lower Upper

114 100

63 21.2 0.0 43.8

88 15.3 0.0 31.6



#35

Dibromofluoromethane

Concen: 51.833 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN084546.D

Acq: 28 Oct 2024 17:53

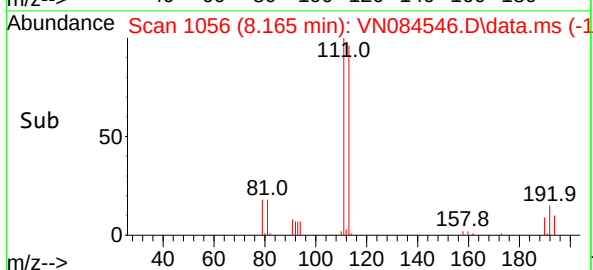
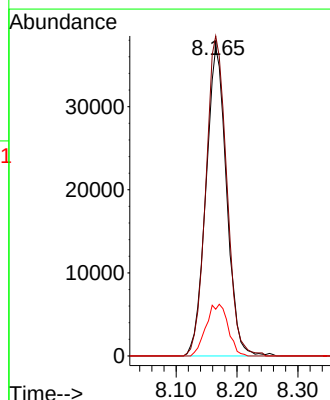
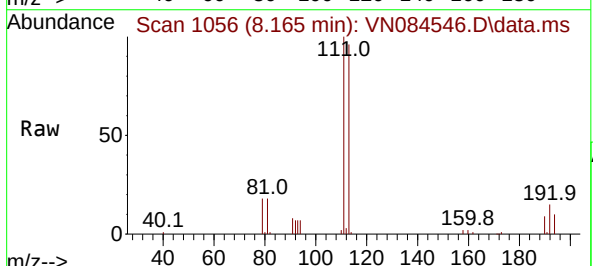
Tgt Ion:113 Resp: 87697

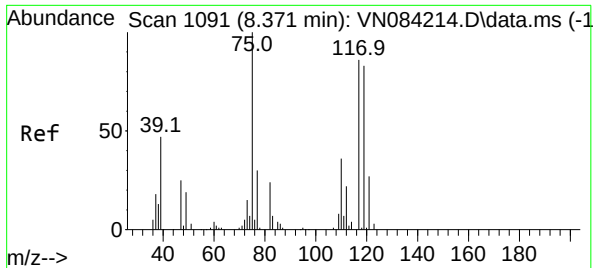
Ion Ratio Lower Upper

113 100

111 104.1 83.3 124.9

192 17.8 13.5 20.3





#36

1,1-Dichloropropene

Concen: 5.746 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.153 min

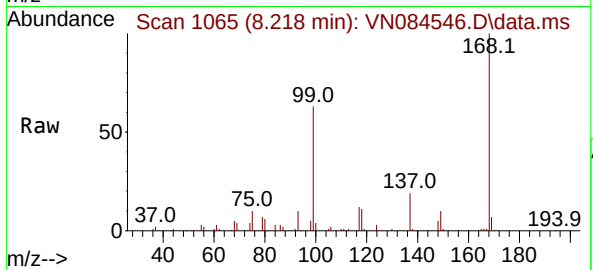
Lab File: VN084546.D

Acq: 28 Oct 2024 17:53

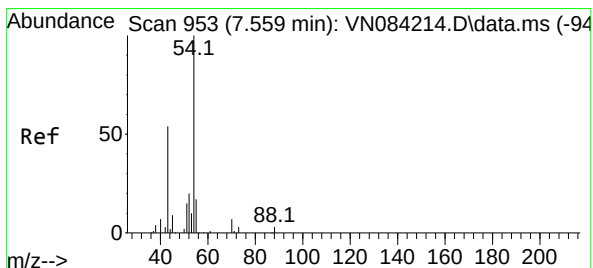
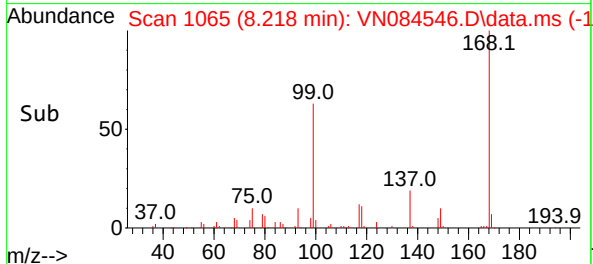
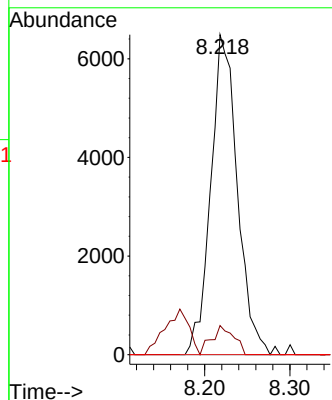
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	75	Resp:	14120
Ion Ratio	Lower	Upper	
75	100		
110	7.5	16.9	50.7#
77	0.0	24.7	37.1#



#37

Ethyl Acetate

Concen: 2.032 ug/l

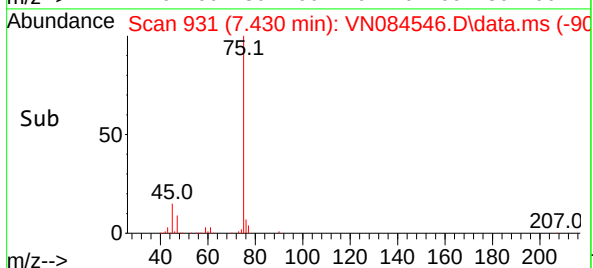
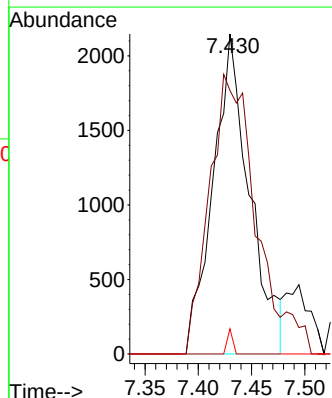
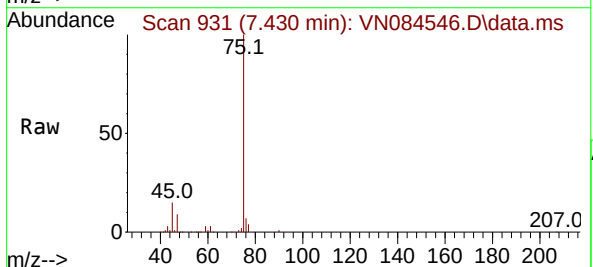
RT: 7.430 min Scan# 931

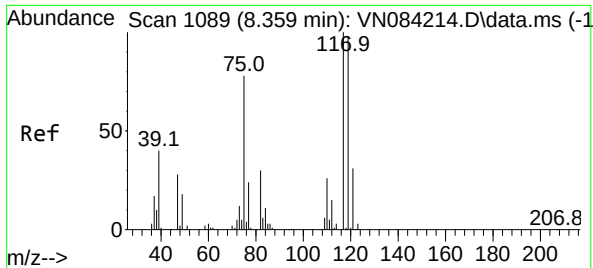
Delta R.T. -0.129 min

Lab File: VN084546.D

Acq: 28 Oct 2024 17:53

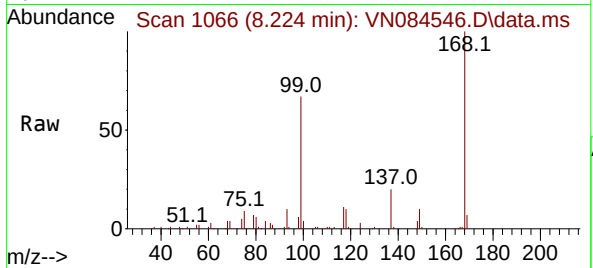
Tgt Ion:	43	Resp:	5123
Ion Ratio	Lower	Upper	
43	100		
61	112.2	10.7	16.1#
70	1.2	8.8	13.2#



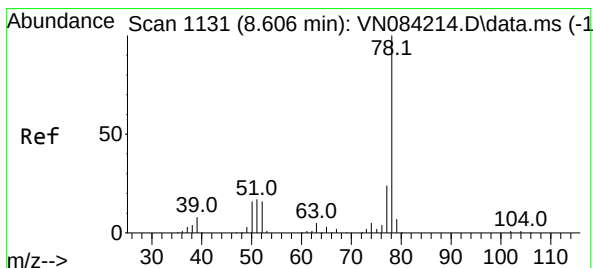
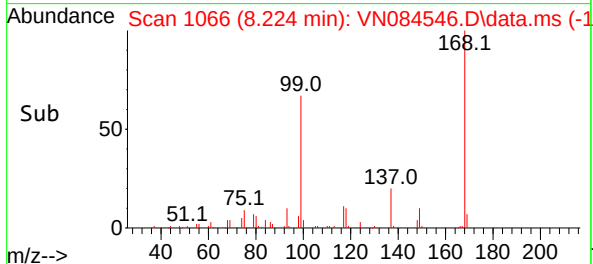
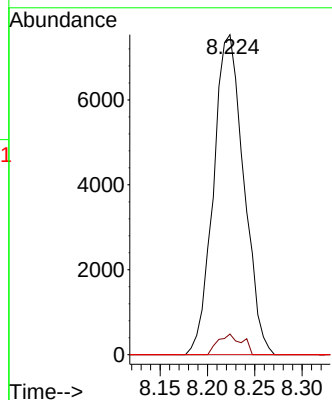


#38
Carbon Tetrachloride
Concen: 6.237 ug/l
RT: 8.224 min Scan# 1106
Delta R.T. -0.135 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

Instrument :
MSVOA_N
ClientSampleId :

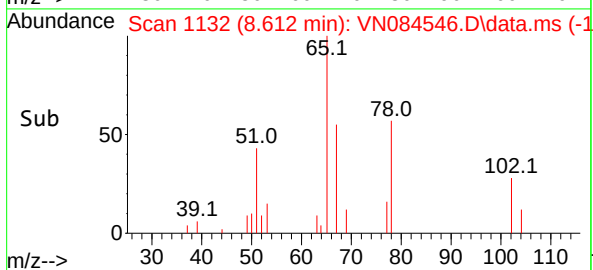
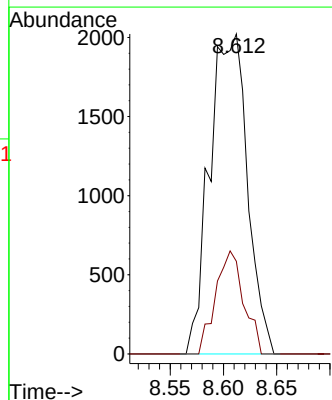
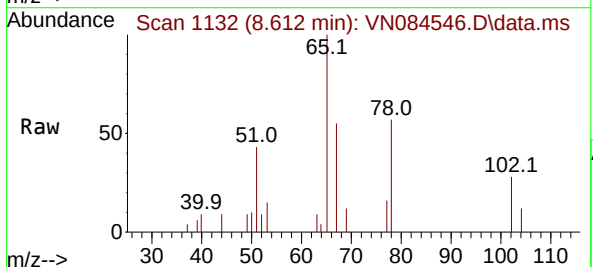


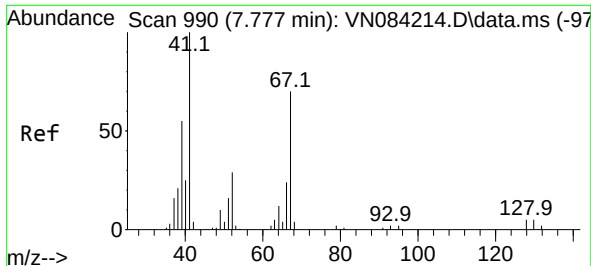
Tgt Ion:117 Resp: 16815
Ion Ratio Lower Upper
117 100
119 6.4 78.7 118.1#
121 0.0 24.4 36.6#



#40
Benzene
Concen: 0.651 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

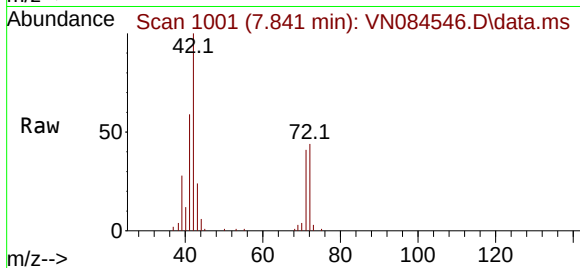
Tgt Ion: 78 Resp: 4984
Ion Ratio Lower Upper
78 100
77 28.9 19.1 28.7#



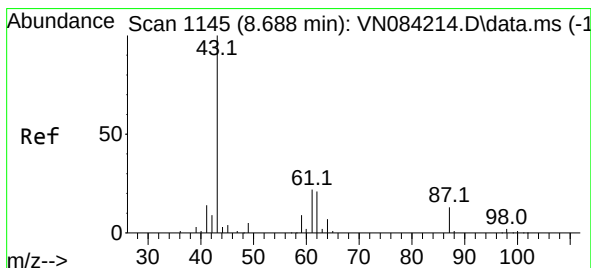
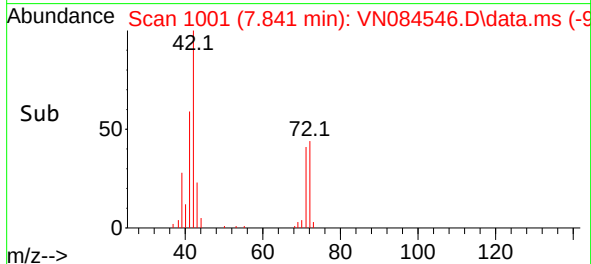
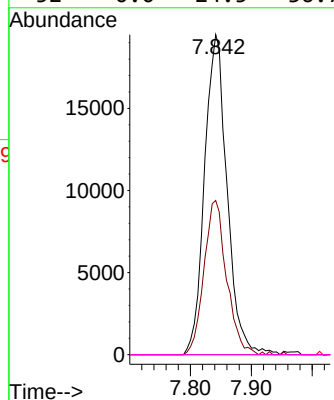


#41
Methacrylonitrile
Concen: 36.658 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.065 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

Instrument :
MSVOA_N
ClientSampleId :

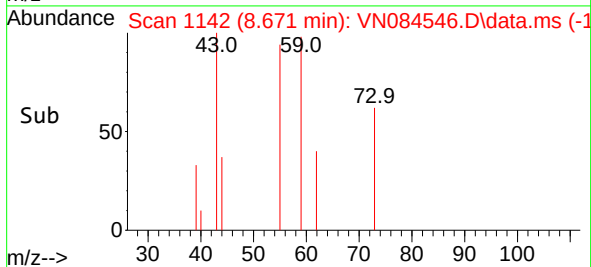
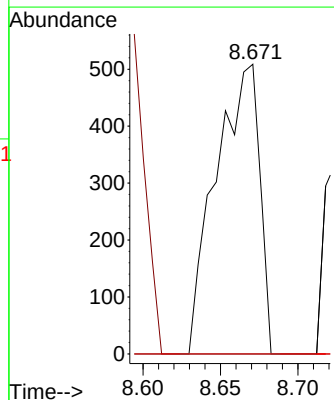
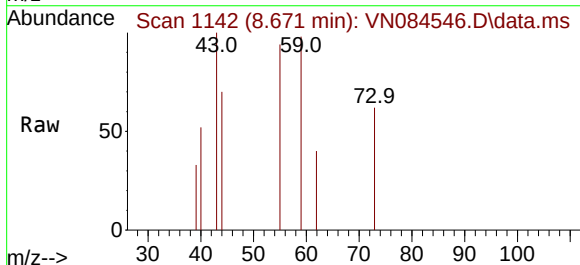


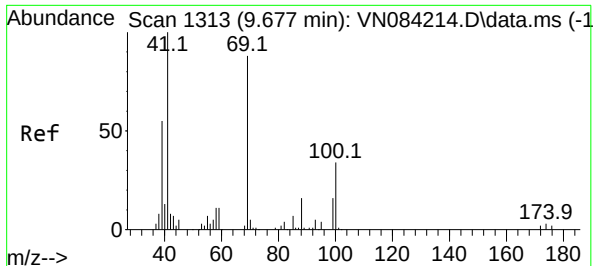
Tgt Ion: 41 Resp: 50176
Ion Ratio Lower Upper
41 100
39 48.3 43.3 64.9
67 0.0 56.1 84.1#
52 0.0 24.5 36.7#



#43
Isopropyl Acetate
Concen: 0.201 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.018 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

Tgt Ion: 43 Resp: 995
Ion Ratio Lower Upper
43 100
61 0.0 20.4 30.6#
87 0.0 10.3 15.5#





#48

Methyl methacrylate

Concen: 0.492 ug/l

RT: 9.906 min Scan# 1352

Delta R.T. 0.230 min

Lab File: VN084546.D

Acq: 28 Oct 2024 17:53

Instrument :

MSVOA_N

ClientSampleId :

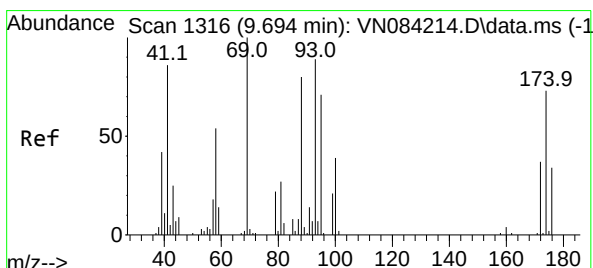
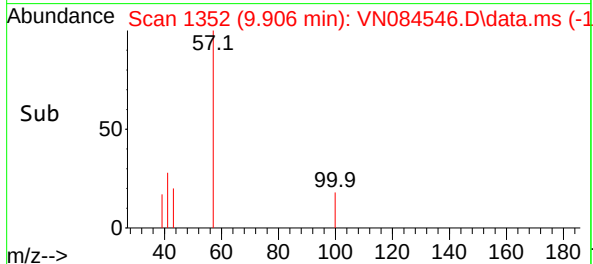
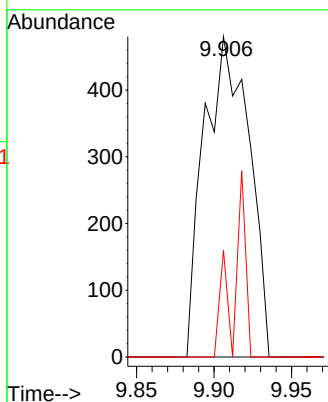
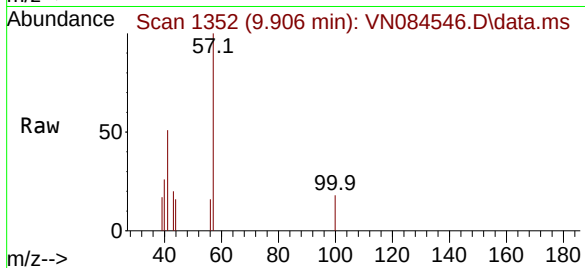
Tgt Ion: 41 Resp: 968

Ion Ratio Lower Upper

41 100

69 0.0 67.1 100.7#

39 16.0 45.8 68.6#



#49

1,4-Dioxane

Concen: 159.045 ug/l

RT: 9.700 min Scan# 1317

Delta R.T. 0.006 min

Lab File: VN084546.D

Acq: 28 Oct 2024 17:53

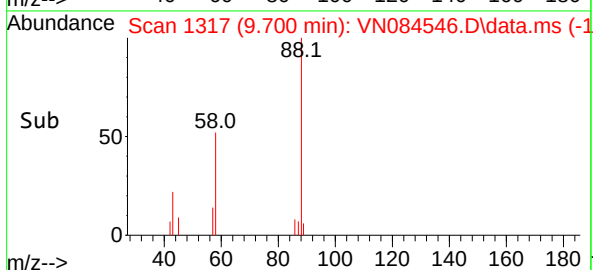
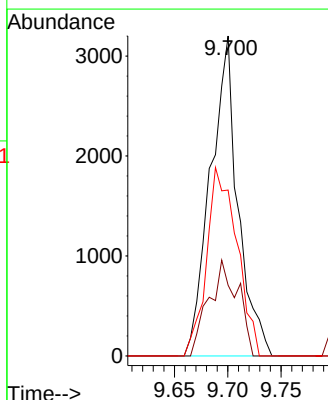
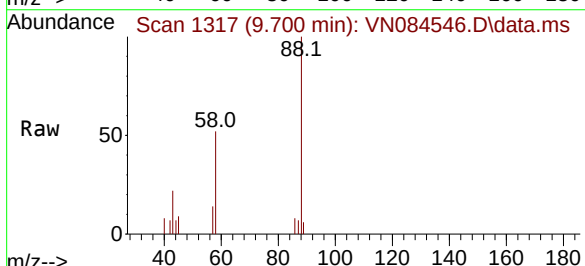
Tgt Ion: 88 Resp: 5756

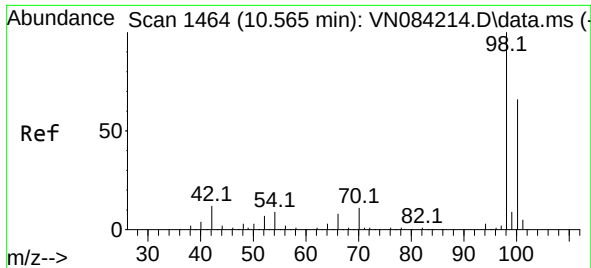
Ion Ratio Lower Upper

88 100

43 31.5 25.3 37.9

58 64.8 56.4 84.6

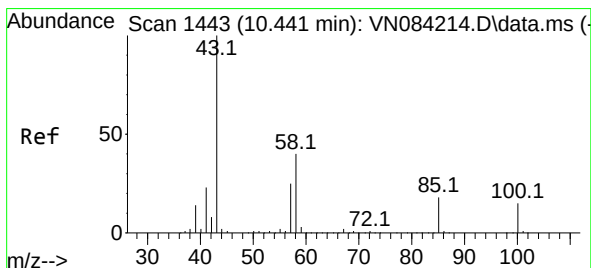
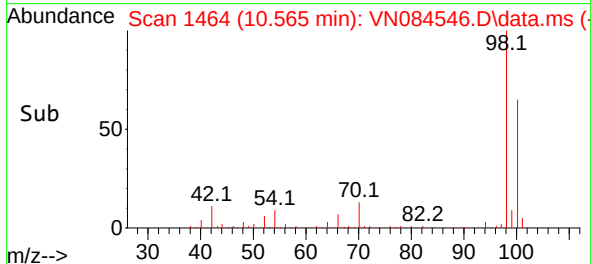
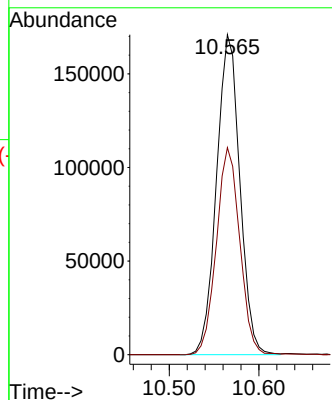
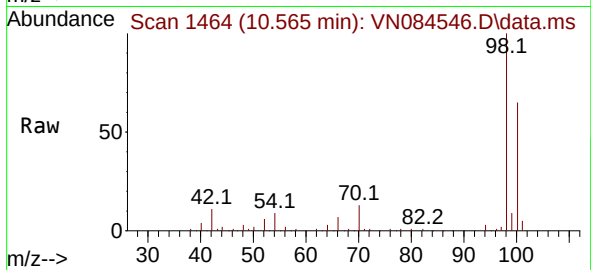




#50
Toluene-d8
Concen: 49.471 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

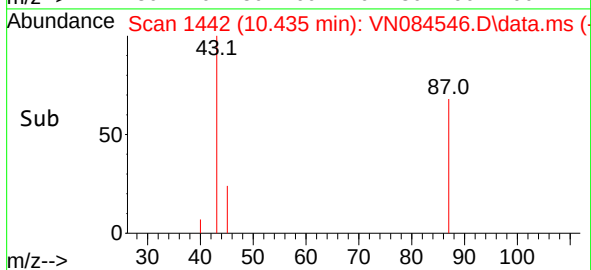
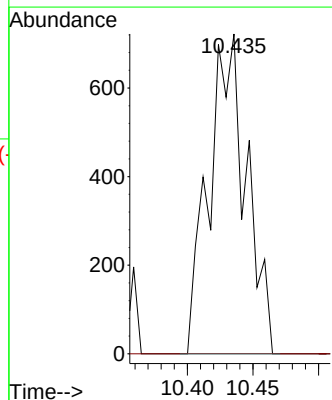
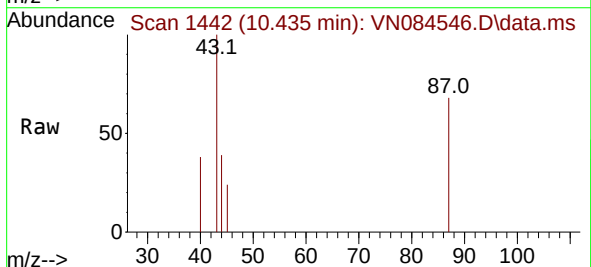
Instrument :
MSVOA_N
ClientSampleId :

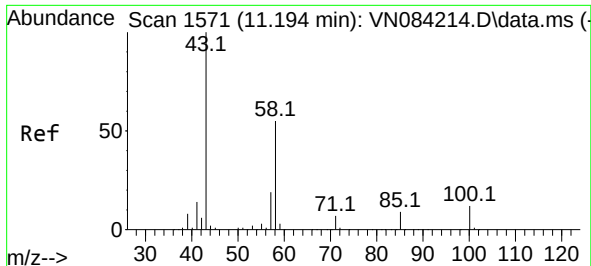
Tgt Ion: 98 Resp: 307940
Ion Ratio Lower Upper
98 100
100 65.1 52.7 79.1



#51
4-Methyl-2-Pentanone
Concen: 0.598 ug/l
RT: 10.435 min Scan# 1442
Delta R.T. -0.006 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

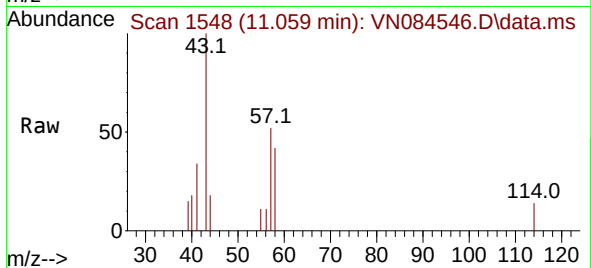
Tgt Ion: 43 Resp: 1436
Ion Ratio Lower Upper
43 100
58 0.0 31.6 47.4#



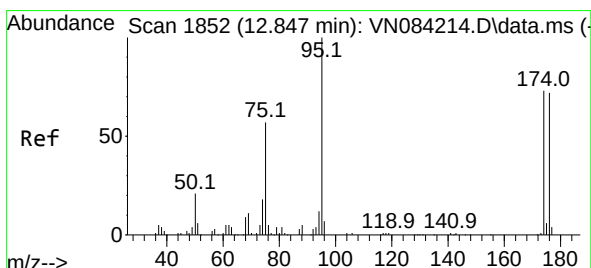
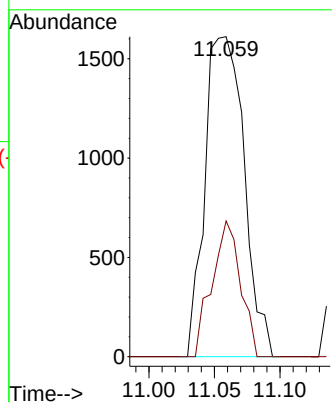
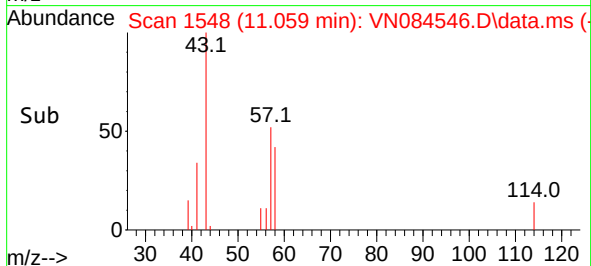


#59
2-Hexanone
Concen: 1.867 ug/l
RT: 11.059 min Scan# 11548
Delta R.T. -0.135 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

Instrument :
MSVOA_N
ClientSampleId :

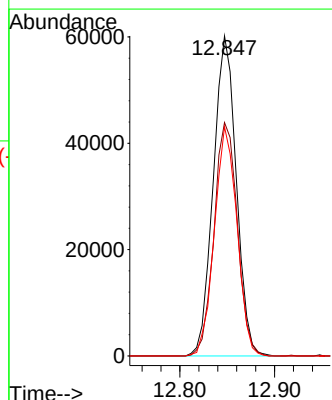
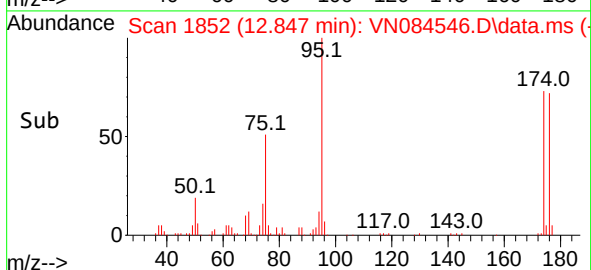
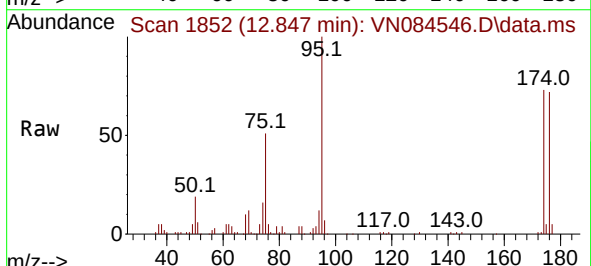


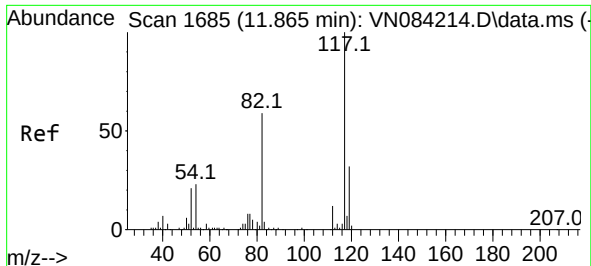
Tgt Ion: 43 Resp: 3350
Ion Ratio Lower Upper
43 100
58 30.9 27.3 81.8



#62
4-Bromofluorobenzene
Concen: 44.689 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

Tgt Ion: 95 Resp: 101341
Ion Ratio Lower Upper
95 100
174 74.1 0.0 145.2
176 70.5 0.0 140.0

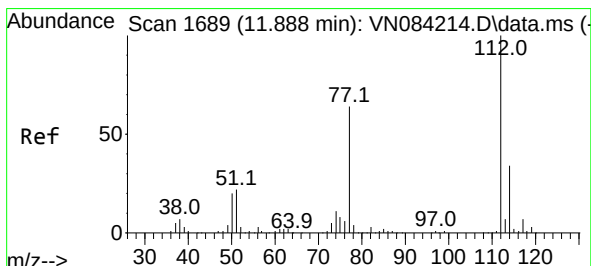
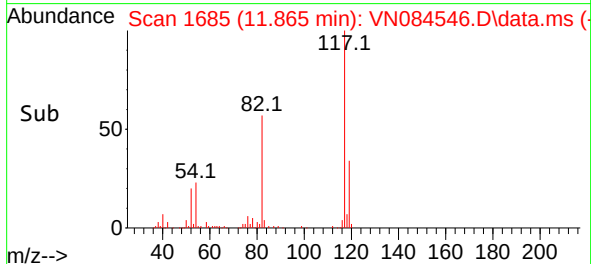
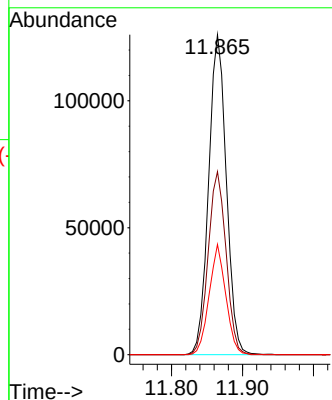
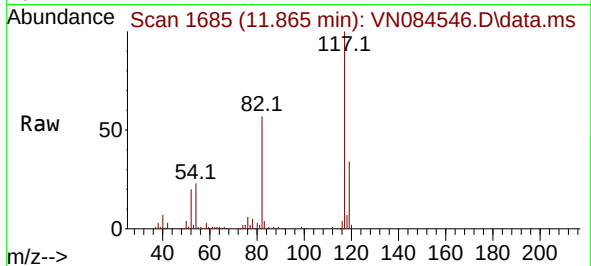




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

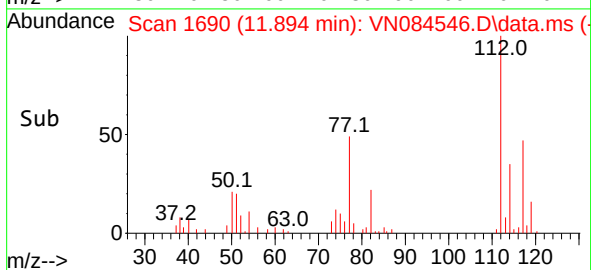
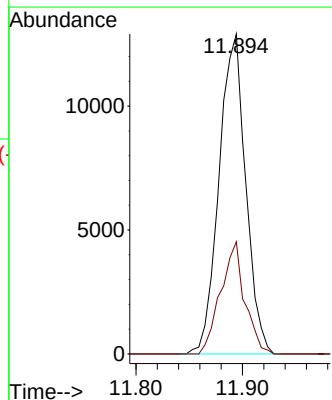
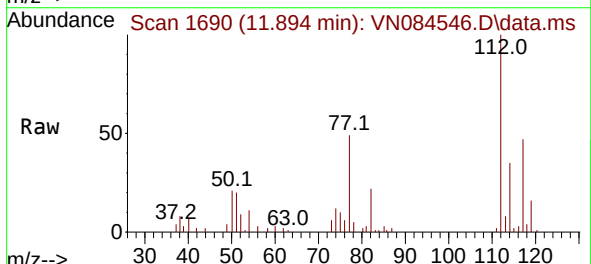
Instrument :
MSVOA_N
ClientSampleId :

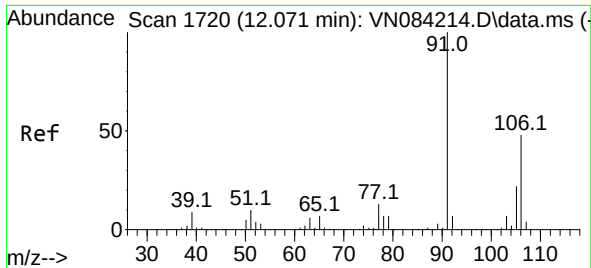
Tgt Ion:117 Resp: 218316
Ion Ratio Lower Upper
117 100
82 57.2 47.2 70.8
119 34.4 25.4 38.0



#65
Chlorobenzene
Concen: 4.629 ug/l
RT: 11.894 min Scan# 1690
Delta R.T. 0.006 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

Tgt Ion:112 Resp: 22409
Ion Ratio Lower Upper
112 100
114 35.1 27.0 40.6

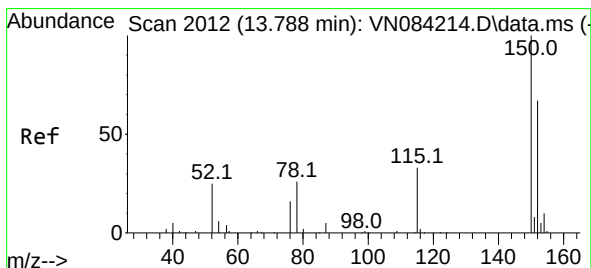
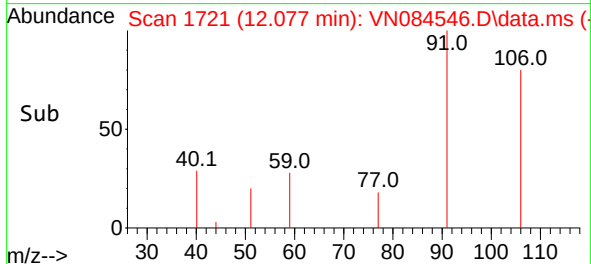
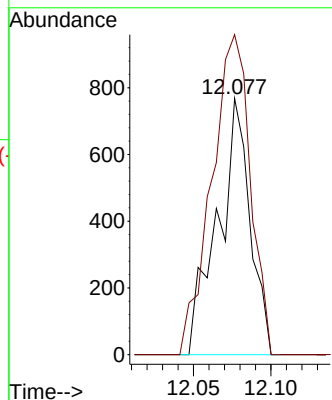
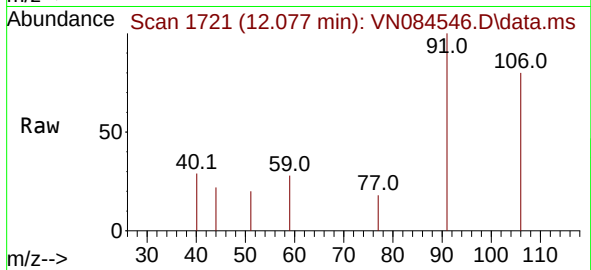




#68
m/p-Xylenes
Concen: 0.351 ug/l
RT: 12.077 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

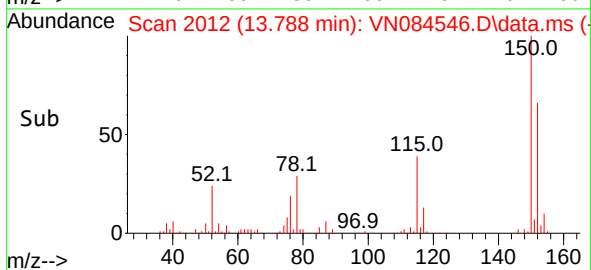
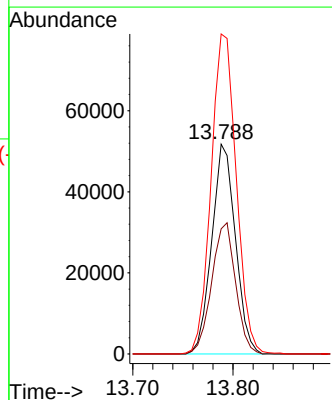
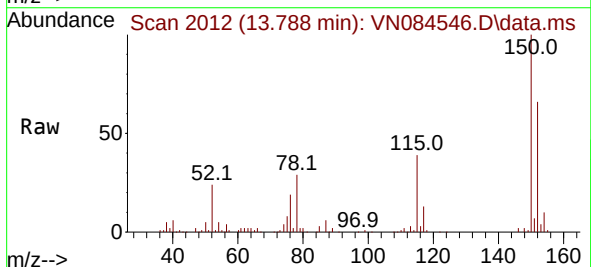
Instrument :
MSVOA_N
ClientSampleId :

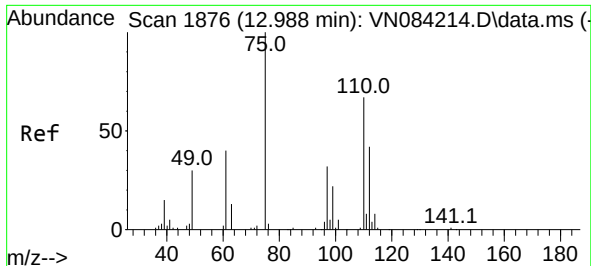
Tgt Ion:106 Resp: 1112
Ion Ratio Lower Upper
106 100
91 149.6 167.1 250.7#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

Tgt Ion:152 Resp: 84904
Ion Ratio Lower Upper
152 100
115 63.1 31.3 93.9
150 162.3 0.0 349.8

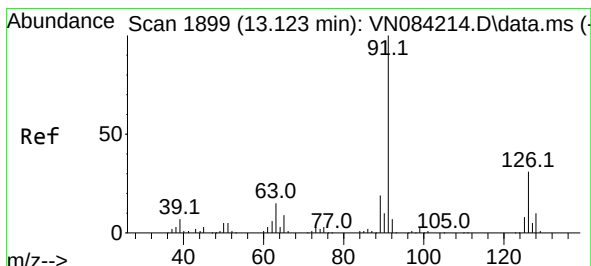
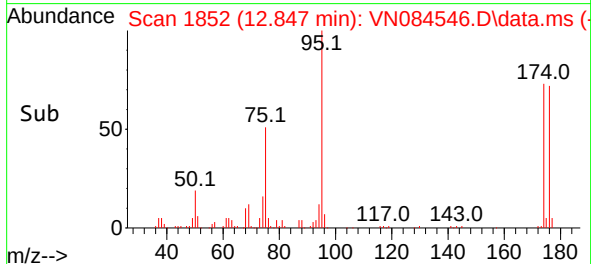
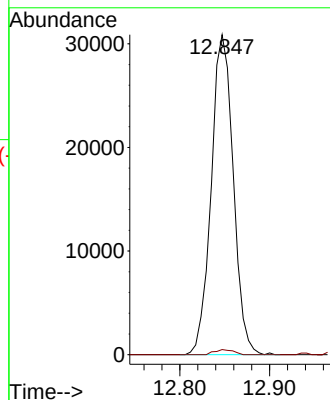
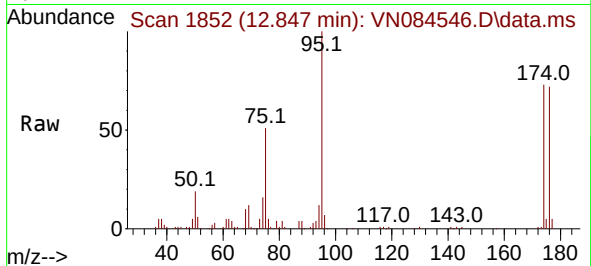




#76
1,2,3-Trichloropropane
Concen: 30.397 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

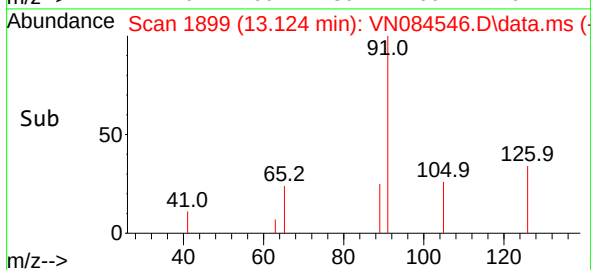
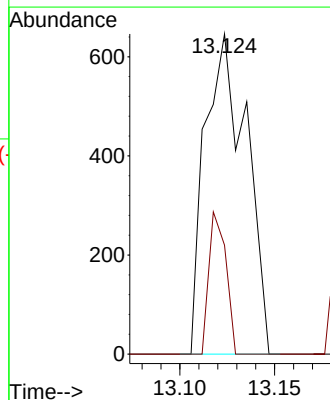
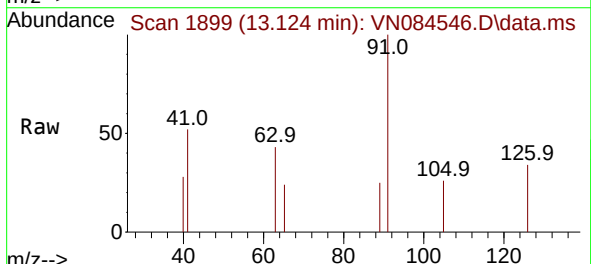
Instrument :
MSVOA_N
ClientSampleId :

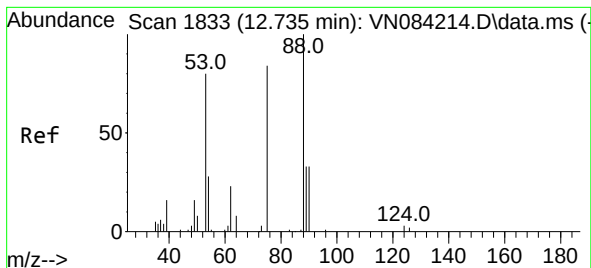
Tgt Ion: 75 Resp: 52688
Ion Ratio Lower Upper
75 100
77 1.4 96.9 290.7#



#79
2-Chlorotoluene
Concen: 0.204 ug/l
RT: 13.124 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

Tgt Ion: 91 Resp: 979
Ion Ratio Lower Upper
91 100
126 18.3 15.7 47.1

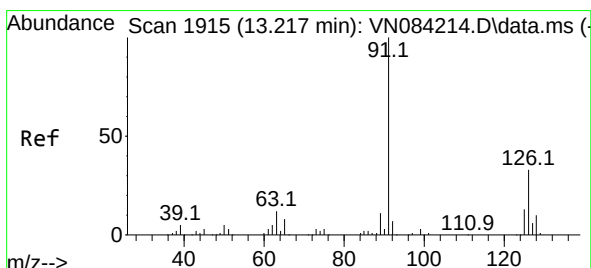
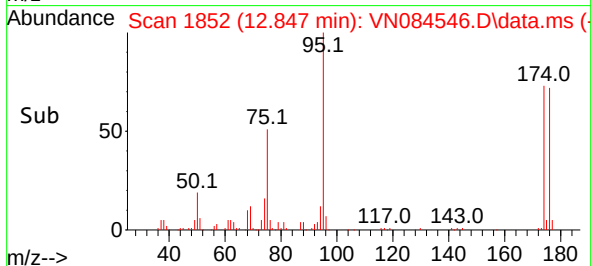
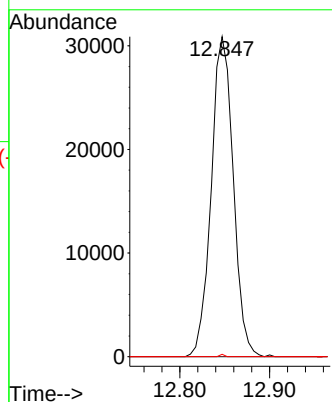
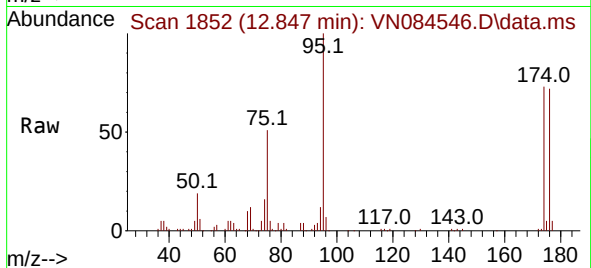




#81
trans-1,4-Dichloro-2-butene
Concen: 72.875 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

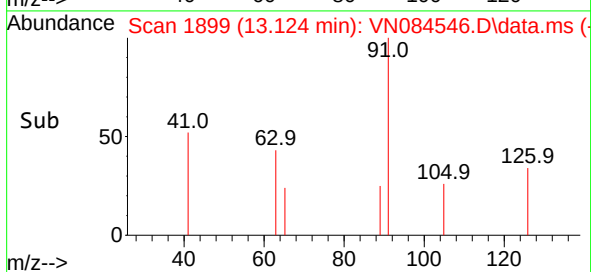
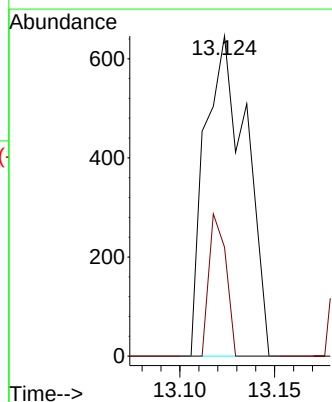
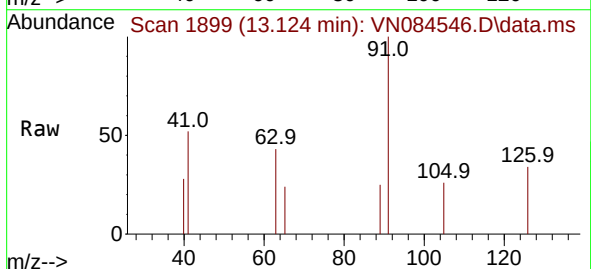
Instrument :
MSVOA_N
ClientSampleId :

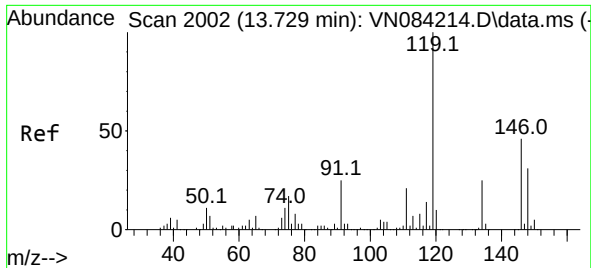
Tgt Ion: 75 Resp: 52688
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.2 35.5 53.3#



#82
4-Chlorotoluene
Concen: 0.203 ug/l
RT: 13.124 min Scan# 1899
Delta R.T. -0.094 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

Tgt Ion: 91 Resp: 979
Ion Ratio Lower Upper
91 100
126 18.3 15.7 47.1

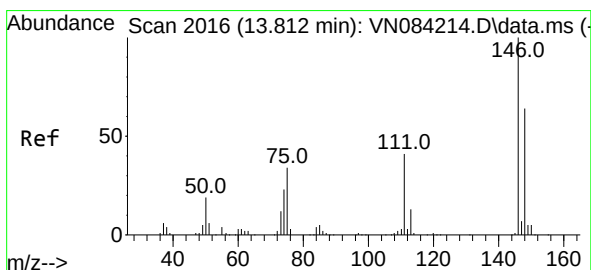
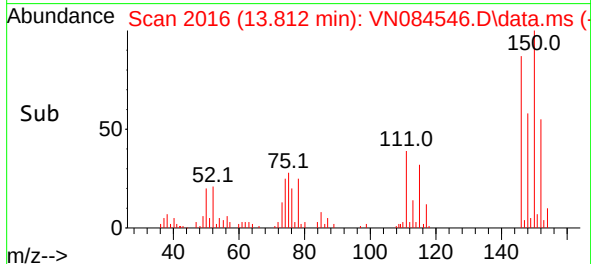
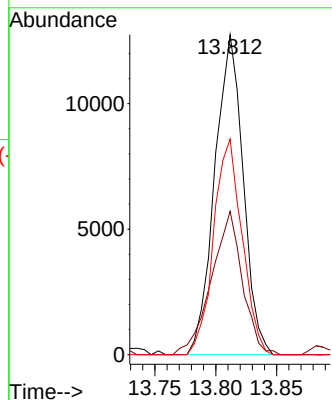
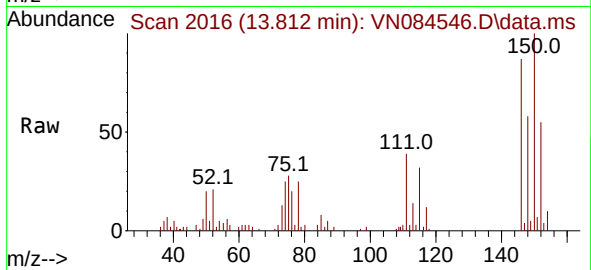




#87
 1,3-Dichlorobenzene
 Concen: 7.061 ug/l
 RT: 13.812 min Scan# 2016
 Delta R.T. 0.082 min
 Lab File: VN084546.D
 Acq: 28 Oct 2024 17:53

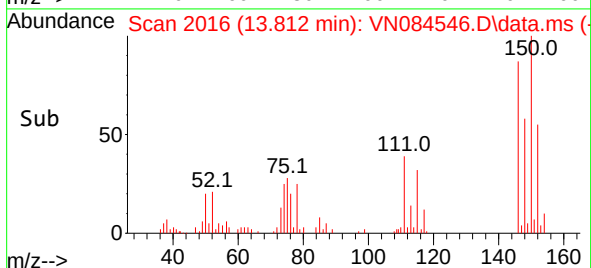
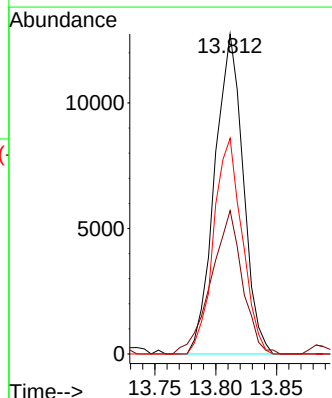
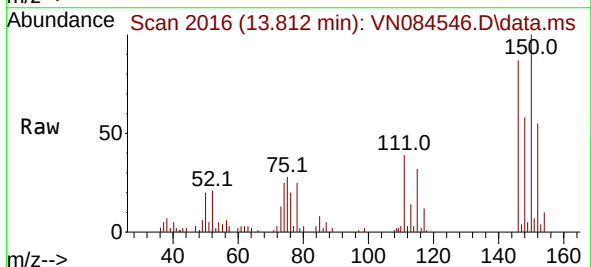
Instrument :
 MSVOA_N
 ClientSampleId :

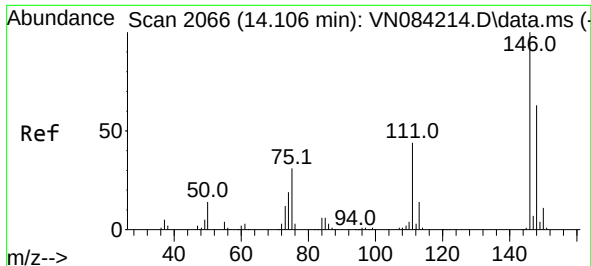
Tgt Ion:146 Resp: 20701
 Ion Ratio Lower Upper
 146 100
 111 48.8 21.8 65.3
 148 67.4 31.9 95.7



#88
 1,4-Dichlorobenzene
 Concen: 6.992 ug/l
 RT: 13.812 min Scan# 2016
 Delta R.T. 0.000 min
 Lab File: VN084546.D
 Acq: 28 Oct 2024 17:53

Tgt Ion:146 Resp: 20701
 Ion Ratio Lower Upper
 146 100
 111 48.8 21.2 63.6
 148 67.4 31.9 95.9





#91

1,2-Dichlorobenzene

Concen: 0.404 ug/l

RT: 14.100 min Scan# 20

Delta R.T. -0.006 min

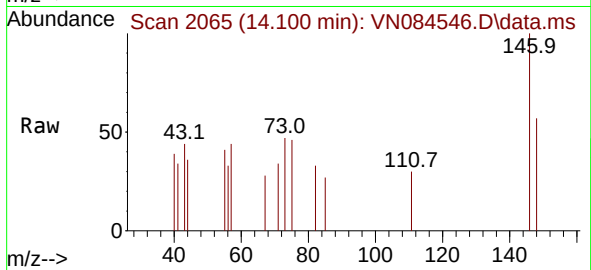
Lab File: VN084546.D

Acq: 28 Oct 2024 17:53

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:146 Resp: 1162

Ion Ratio Lower Upper

146 100

111 42.9 22.0 66.0

148 60.0 32.1 96.3

