

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
 Data File : VN084521.D
 Acq On : 25 Oct 2024 17:14
 Operator : JC\MD
 Sample : P4528-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 241023068-02-VOA

Quant Time: Oct 26 06:41:22 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

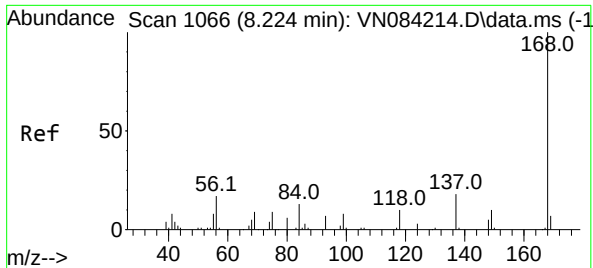
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.224	168	144960	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	250771	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	217007	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	92460	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	114948	53.482	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.960%			
35) Dibromofluoromethane	8.165	113	90872	54.966	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.940%			
50) Toluene-d8	10.565	98	295569	48.594	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.180%			
62) 4-Bromofluorobenzene	12.847	95	104207	47.027	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 94.060%			
Target Compounds						Qvalue
6) Chloroethane	3.142	64	393	0.289	ug/l #	59
8) Diethyl Ether	3.965	74	8584	7.837	ug/l	89
11) Tert butyl alcohol	5.512	59	63261	178.501	ug/l	99
15) Acrylonitrile	5.524	53	342	0.382	ug/l #	7
16) Acetone	4.436	43	3972	4.302	ug/l	99
25) 2-Butanone	7.436	43	4842	3.850	ug/l #	73
26) 2,2-Dichloropropane	7.436	77	6325	2.139	ug/l #	54
29) Tetrahydrofuran	7.836	42	83542	107.650	ug/l	98
31) Cyclohexane	8.218	56	3769	1.184	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	12632	5.260	ug/l #	49
37) Ethyl Acetate	7.436	43	4842	1.965	ug/l #	1
38) Carbon Tetrachloride	8.224	117	15839	6.013	ug/l #	16
40) Benzene	8.606	78	6009	0.803	ug/l	95
41) Methacrylonitrile	7.836	41	48841	36.517	ug/l #	48
48) Methyl methacrylate	9.906	41	892	0.464	ug/l #	28
49) 1,4-Dioxane	9.700	88	5142	145.402	ug/l	95
51) 4-Methyl-2-Pentanone	10.430	43	1517	0.647	ug/l #	36
59) 2-Hexanone	11.171	43	4130	2.356	ug/l #	24
65) Chlorobenzene	11.888	112	26228	5.451	ug/l	94
68) m/p-Xylenes	12.071	106	1233	0.392	ug/l	97
69) o-Xylene	12.394	106	895	0.301	ug/l	87
71) Bromoform	12.847	173	604	0.495	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	53460	28.322	ug/l #	1
79) 2-Chlorotoluene	13.123	91	1263	0.242	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.847	75	53460	67.900	ug/l #	11
82) 4-Chlorotoluene	13.123	91	1263	0.241	ug/l	97
87) 1,3-Dichlorobenzene	13.812	146	21962	6.879	ug/l	96
88) 1,4-Dichlorobenzene	13.812	146	21962	6.812	ug/l	95
91) 1,2-Dichlorobenzene	14.100	146	1092	0.349	ug/l	95

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

Quant Time: Oct 26 06:41:22 2024
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QLast Update : Tue Oct 01 07:11:01 2024
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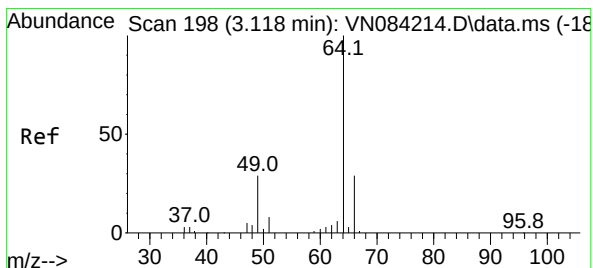
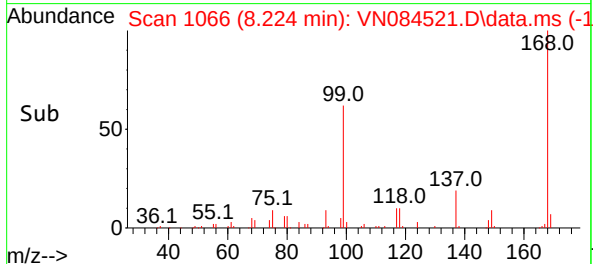
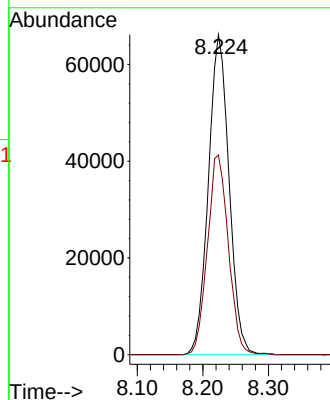
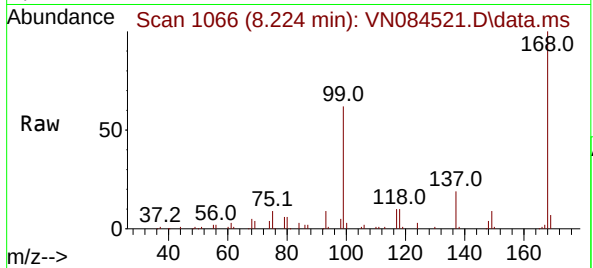




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN084521.D
Acq: 25 Oct 2024 17:14

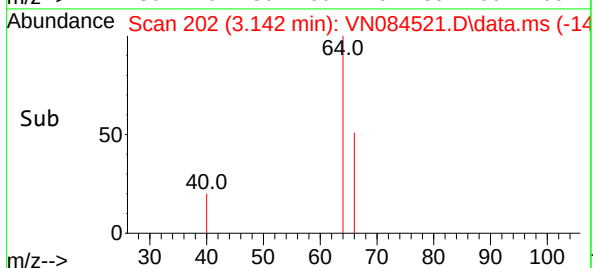
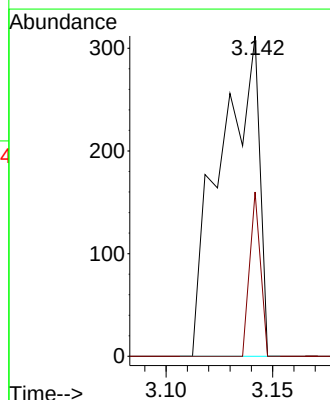
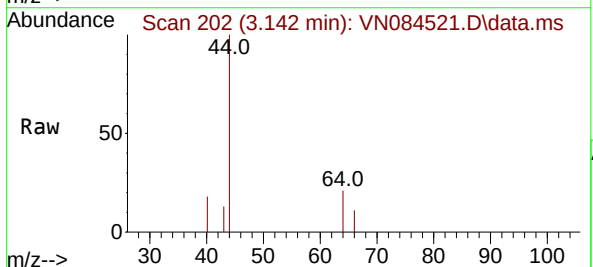
Instrument :
MSVOA_N
ClientSampleId :
241023068-02-VOA

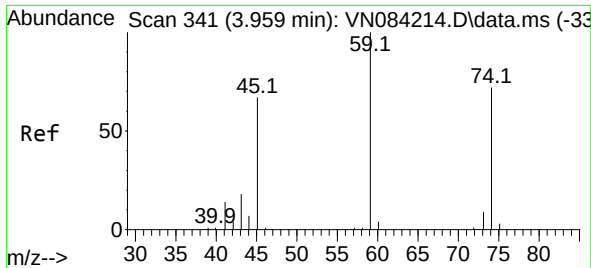
Tgt Ion:168 Resp: 144960
Ion Ratio Lower Upper
168 100
99 62.4 54.2 81.2



#6
Chloroethane
Concen: 0.289 ug/l
RT: 3.142 min Scan# 202
Delta R.T. 0.024 min
Lab File: VN084521.D
Acq: 25 Oct 2024 17:14

Tgt Ion: 64 Resp: 393
Ion Ratio Lower Upper
64 100
66 51.3 23.5 35.3#





#8

Diethyl Ether

Concen: 7.837 ug/l

RT: 3.965 min Scan# 341

Delta R.T. 0.006 min

Lab File: VN084521.D

Acq: 25 Oct 2024 17:14

Instrument :

MSVOA_N

ClientSampleId :

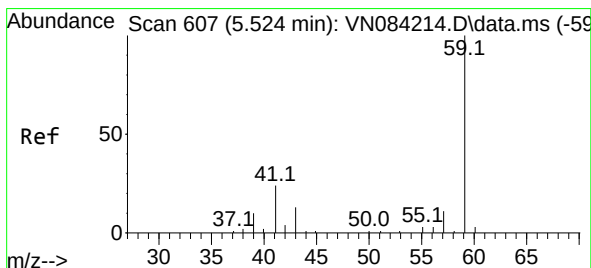
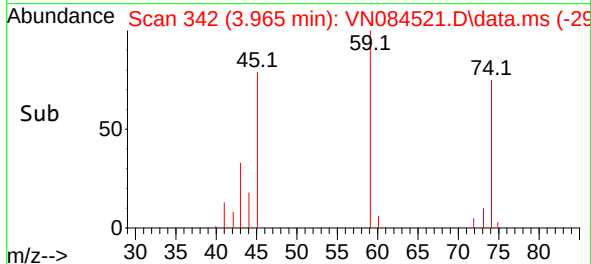
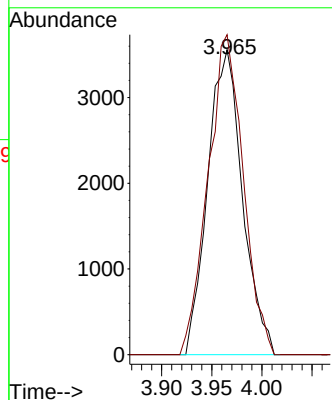
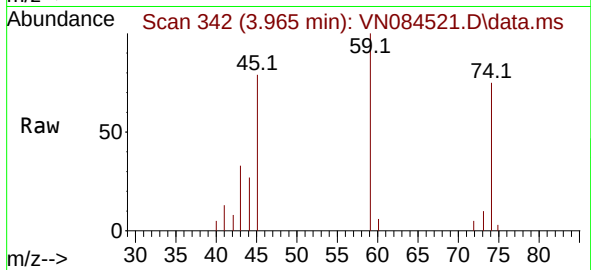
241023068-02-VOA

Tgt Ion: 74 Resp: 8584

Ion Ratio Lower Upper

74 100

45 106.3 47.7 143.1



#11

Tert butyl alcohol

Concen: 178.501 ug/l

RT: 5.512 min Scan# 605

Delta R.T. -0.012 min

Lab File: VN084521.D

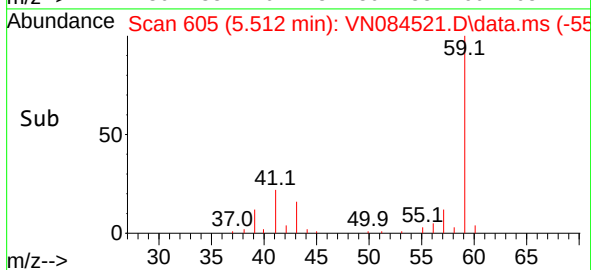
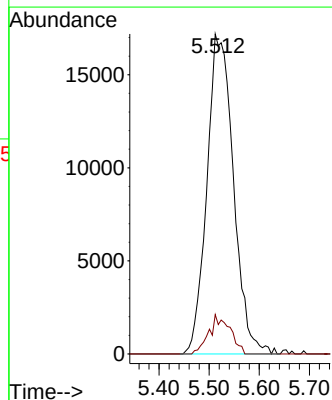
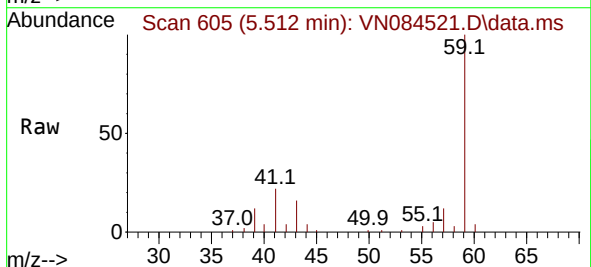
Acq: 25 Oct 2024 17:14

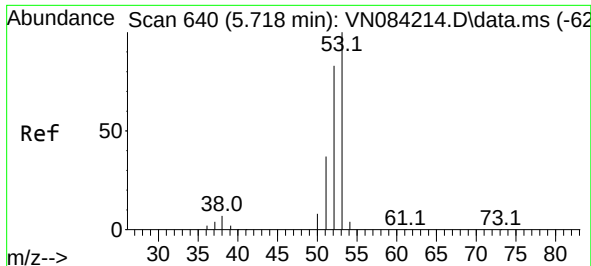
Tgt Ion: 59 Resp: 63261

Ion Ratio Lower Upper

59 100

57 9.7 8.2 12.2

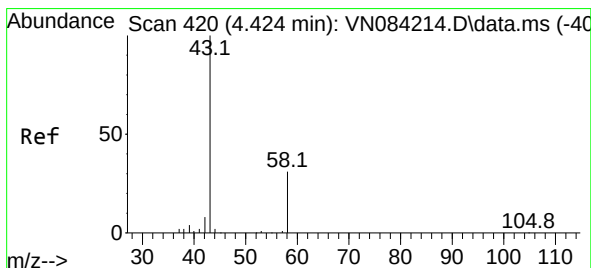
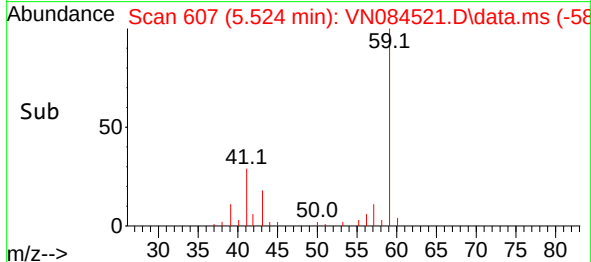
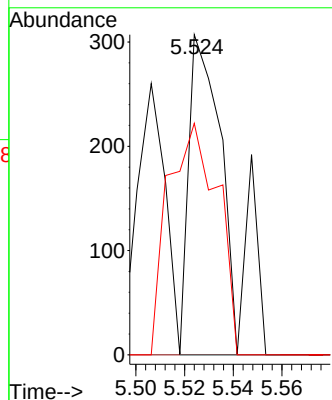
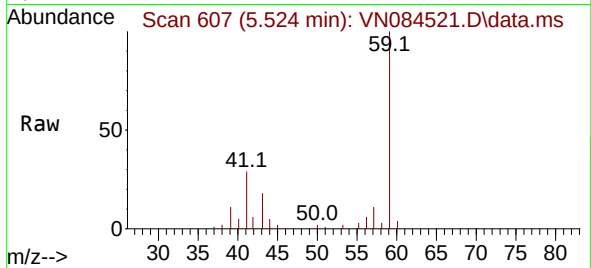




#15
Acrylonitrile
Concen: 0.382 ug/l
RT: 5.524 min Scan# 607
Delta R.T. -0.194 min
Lab File: VN084521.D
Acq: 25 Oct 2024 17:14

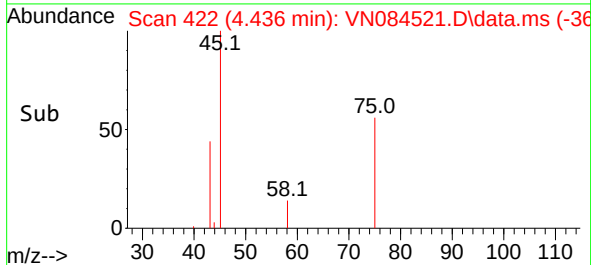
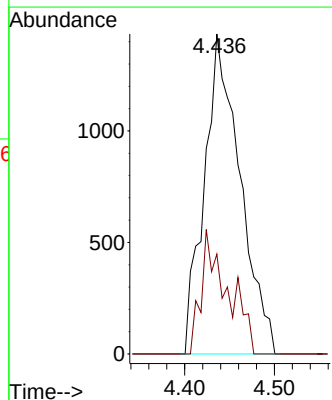
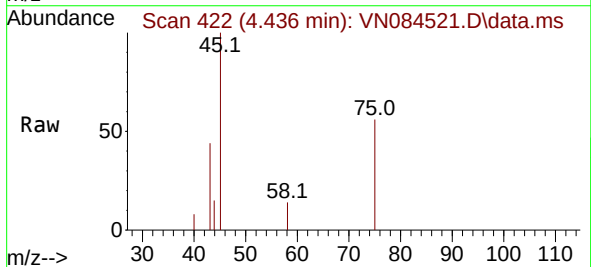
Instrument :
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241023068-02-VOA

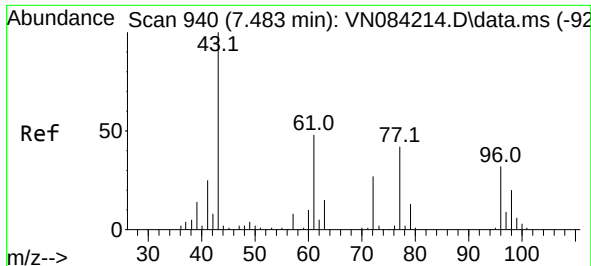
Tgt Ion: 53 Resp: 342
Ion Ratio Lower Upper
53 100
52 0.0 66.2 99.4#
51 92.1 28.8 43.2#



#16
Acetone
Concen: 4.302 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN084521.D
Acq: 25 Oct 2024 17:14

Tgt Ion: 43 Resp: 3972
Ion Ratio Lower Upper
43 100
58 31.2 24.4 36.6

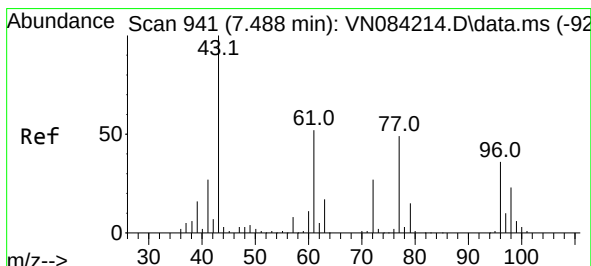
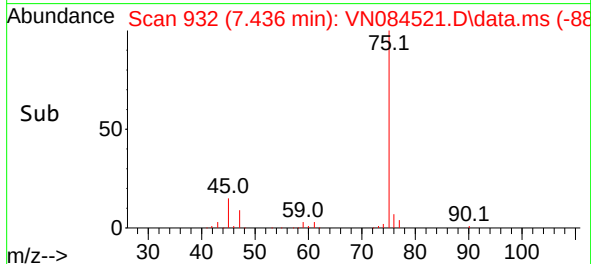
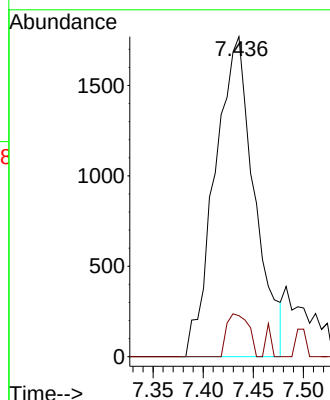
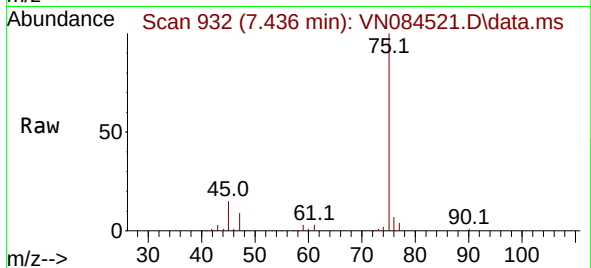




#25
2-Butanone
Concen: 3.850 ug/l
RT: 7.436 min Scan# 912
Delta R.T. -0.047 min
Lab File: VN084521.D
Acq: 25 Oct 2024 17:14

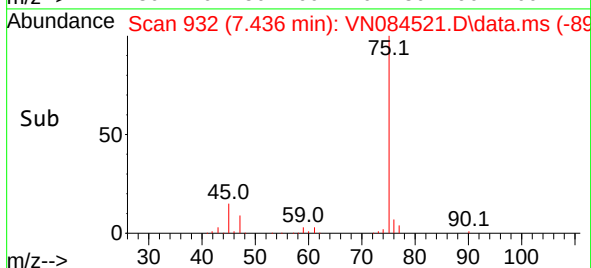
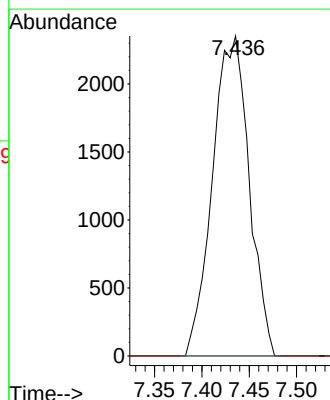
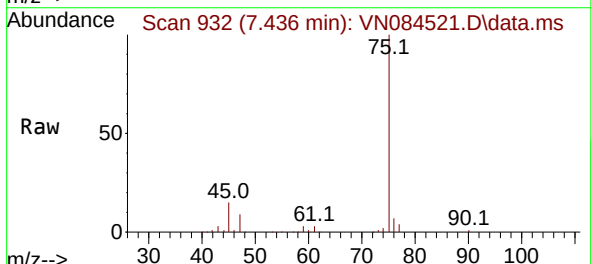
Instrument :
MSVOA_N
ClientSampleId :
241023068-02-VOA

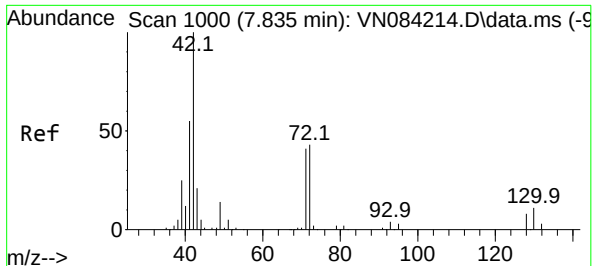
Tgt Ion: 43 Resp: 4842
Ion Ratio Lower Upper
43 100
72 12.8 21.4 32.2#



#26
2,2-Dichloropropane
Concen: 2.139 ug/l
RT: 7.436 min Scan# 932
Delta R.T. -0.053 min
Lab File: VN084521.D
Acq: 25 Oct 2024 17:14

Tgt Ion: 77 Resp: 6325
Ion Ratio Lower Upper
77 100
97 0.0 10.8 32.3#





#29

Tetrahydrofuran

Concen: 107.650 ug/l

RT: 7.836 min Scan# 1065

Delta R.T. 0.000 min

Lab File: VN084521.D

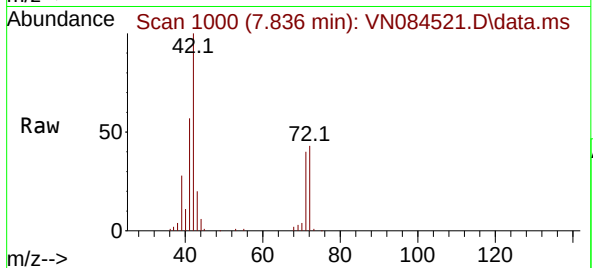
Acq: 25 Oct 2024 17:14

Instrument :

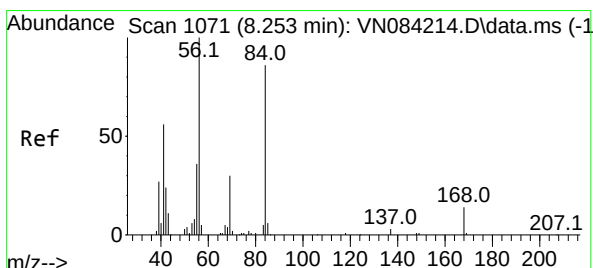
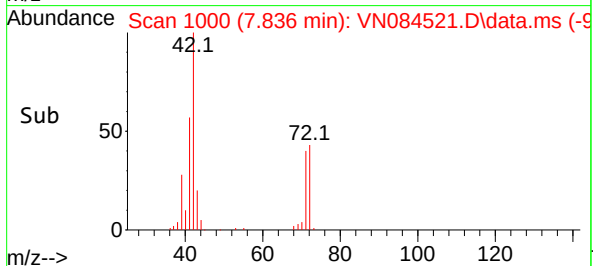
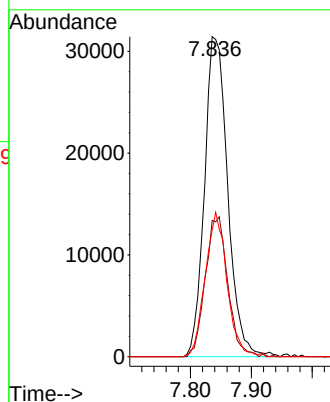
MSVOA_N

ClientSampleId :

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Tgt Ion:	42	Resp:	83542
Ion Ratio	100	Lower	Upper
42	100		
72	42.3	34.6	51.8
71	42.3	32.2	48.4



#31

Cyclohexane

Concen: 1.184 ug/l

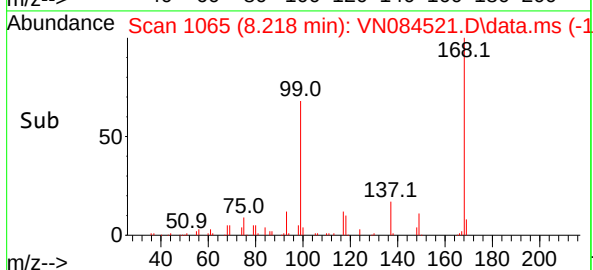
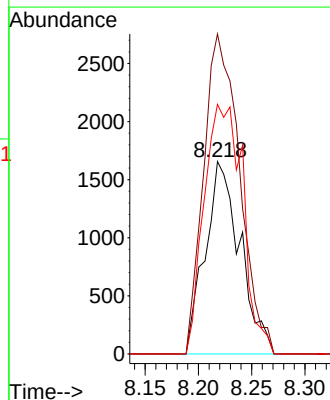
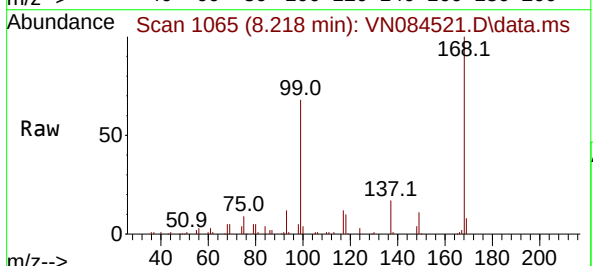
RT: 8.218 min Scan# 1065

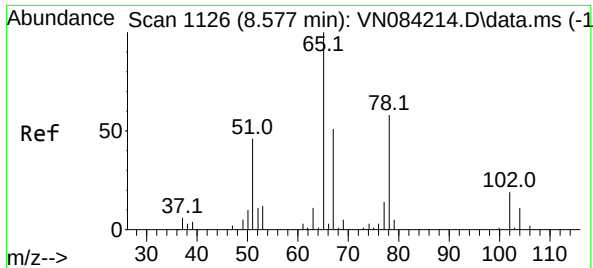
Delta R.T. -0.035 min

Lab File: VN084521.D

Acq: 25 Oct 2024 17:14

Tgt Ion:	56	Resp:	3769
Ion Ratio	100	Lower	Upper
56	100		
69	166.2	23.8	35.6#
84	129.6	68.8	103.2#





#33

1,2-Dichloroethane-d4

Concen: 53.482 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN084521.D

Acq: 25 Oct 2024 17:14

Instrument :

MSVOA_N

ClientSampleId :

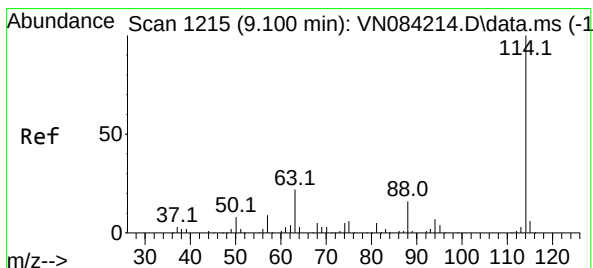
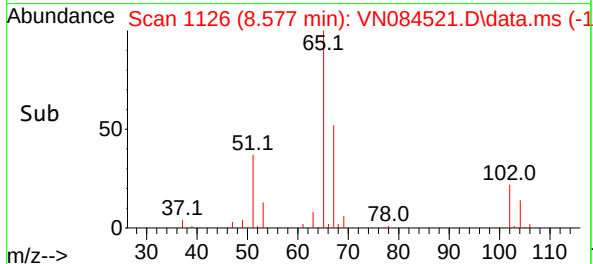
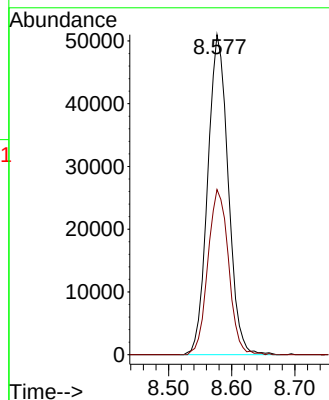
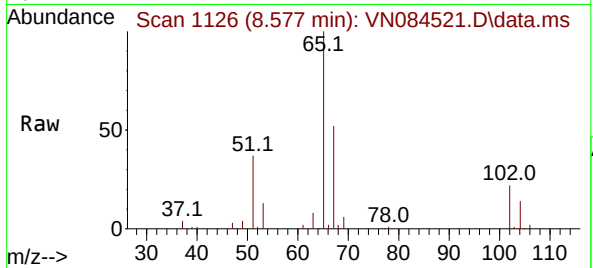
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Tgt Ion: 65 Resp: 114948

Ion Ratio Lower Upper

65 100

67 52.1 0.0 102.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN084521.D

Acq: 25 Oct 2024 17:14

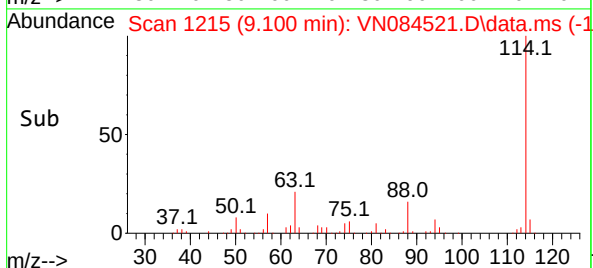
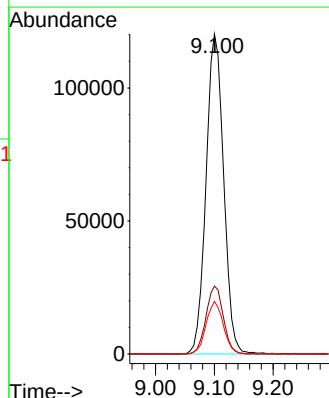
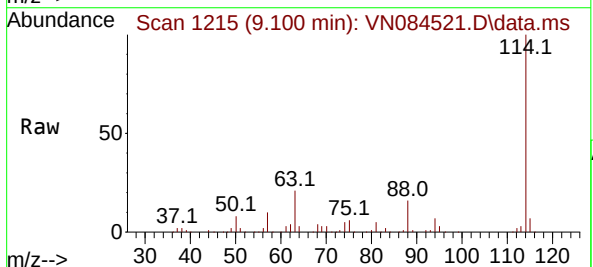
Tgt Ion: 114 Resp: 250771

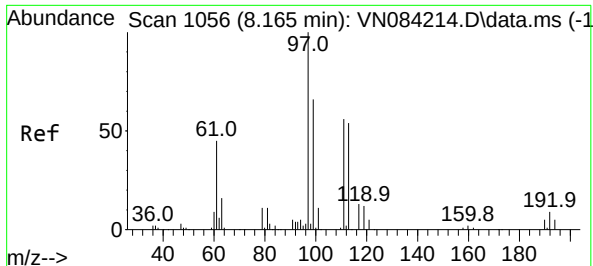
Ion Ratio Lower Upper

114 100

63 21.2 0.0 43.8

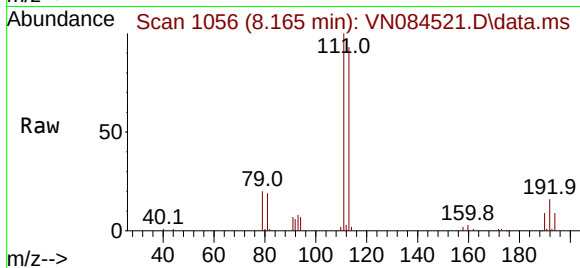
88 16.4 0.0 31.6



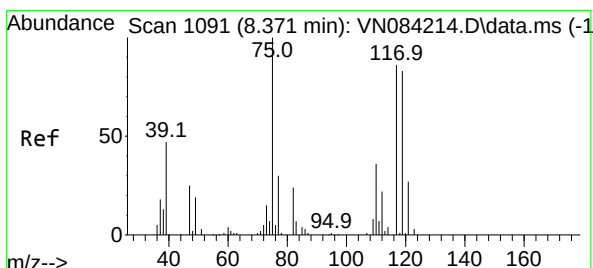
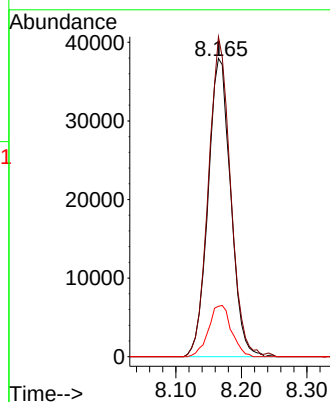
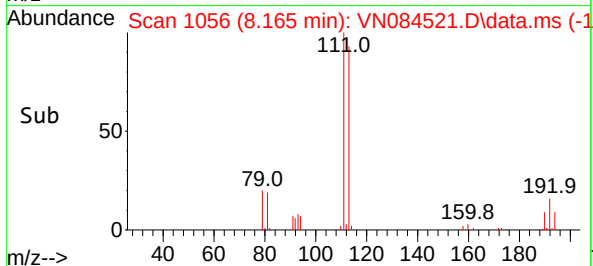


#35
Dibromofluoromethane
Concen: 54.966 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN084521.D
Acq: 25 Oct 2024 17:14

Instrument :
MSVOA_N
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241023068-02-VOA

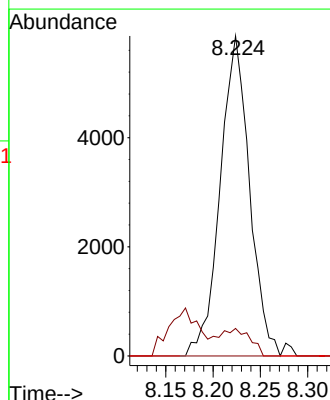
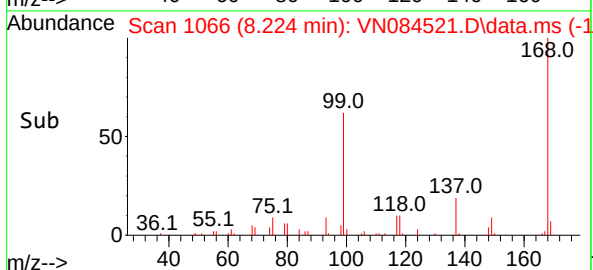
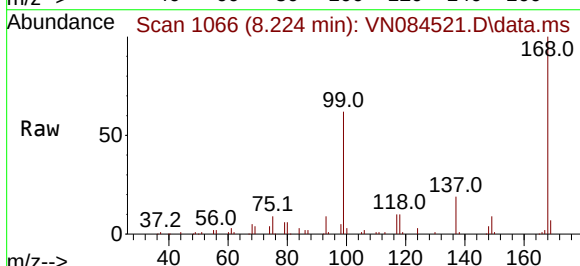


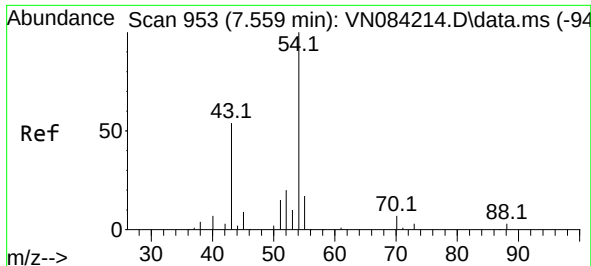
Tgt Ion:113 Resp: 90872
Ion Ratio Lower Upper
113 100
111 104.8 83.3 124.9
192 17.4 13.5 20.3



#36
1,1-Dichloropropene
Concen: 5.260 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.147 min
Lab File: VN084521.D
Acq: 25 Oct 2024 17:14

Tgt Ion: 75 Resp: 12632
Ion Ratio Lower Upper
75 100
110 7.5 16.9 50.7#
77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 1.965 ug/l

RT: 7.436 min Scan# 91

Delta R.T. -0.123 min

Lab File: VN084521.D

Acq: 25 Oct 2024 17:14

Instrument :

MSVOA_N

ClientSampleId :

241023068-02-VOA

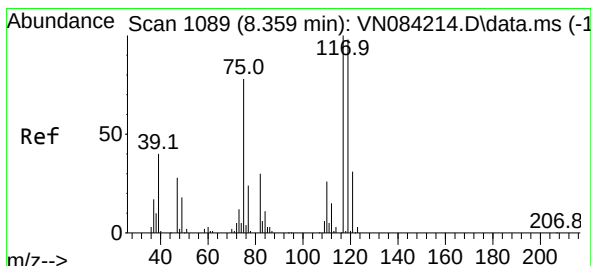
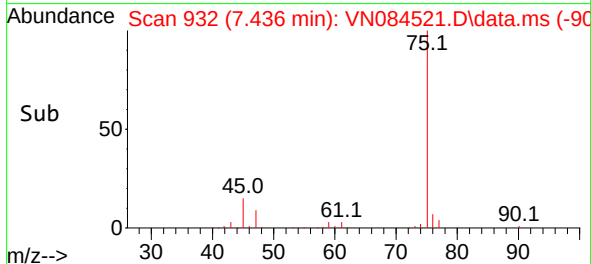
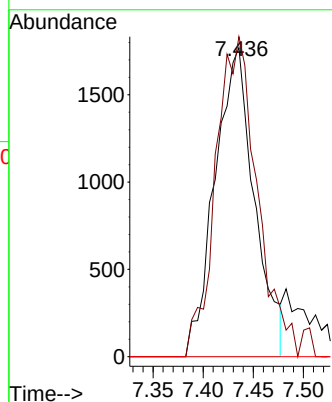
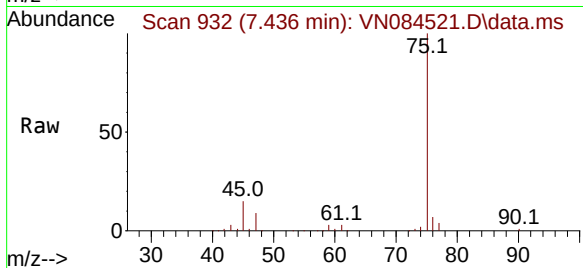
Tgt Ion: 43 Resp: 4842

Ion Ratio Lower Upper

43 100

61 109.1 10.7 16.1#

70 0.0 8.8 13.2#



#38

Carbon Tetrachloride

Concen: 6.013 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN084521.D

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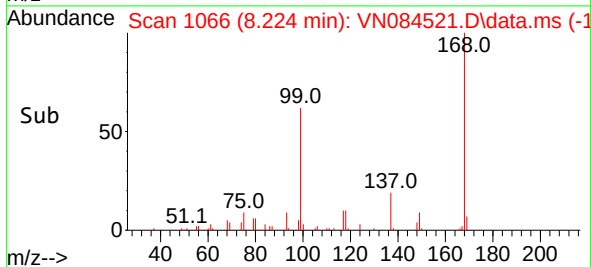
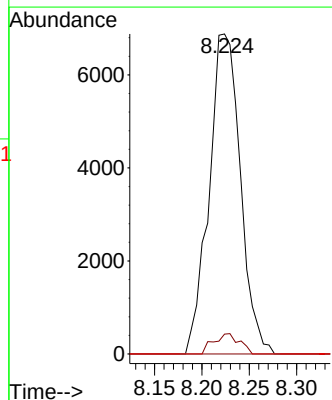
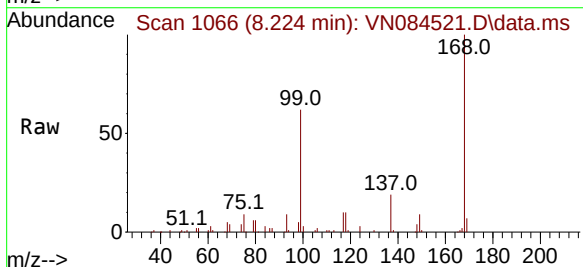
Tgt Ion: 117 Resp: 15839

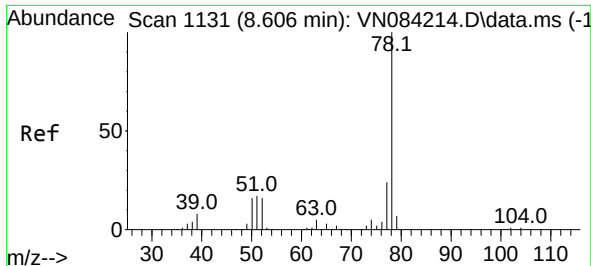
Ion Ratio Lower Upper

117 100

119 6.2 78.7 118.1#

121 0.0 24.4 36.6#

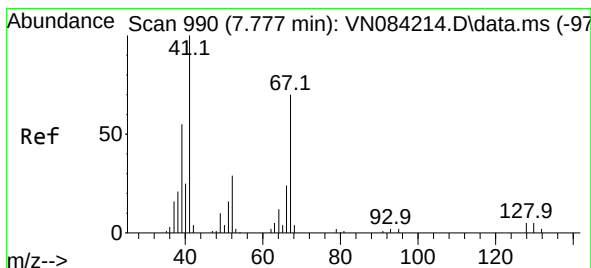
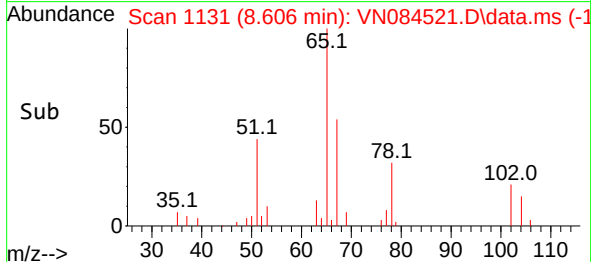
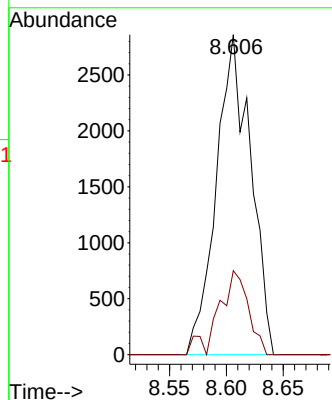
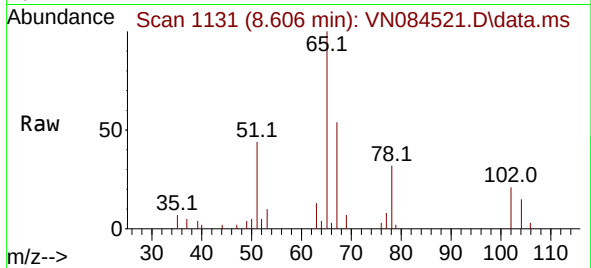




#40
Benzene
Concen: 0.803 ug/l
RT: 8.606 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN084521.D
Acq: 25 Oct 2024 17:14

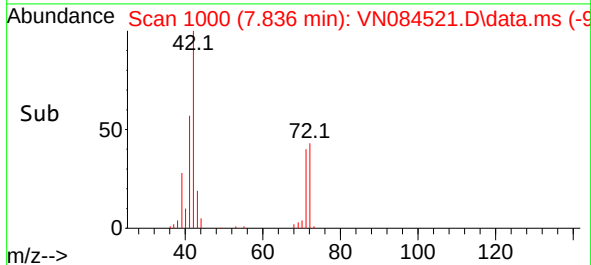
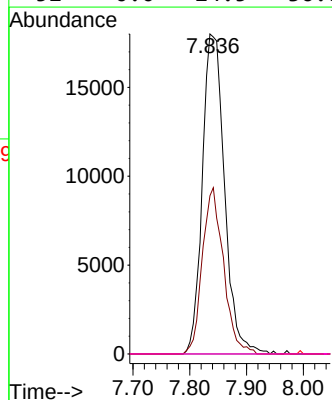
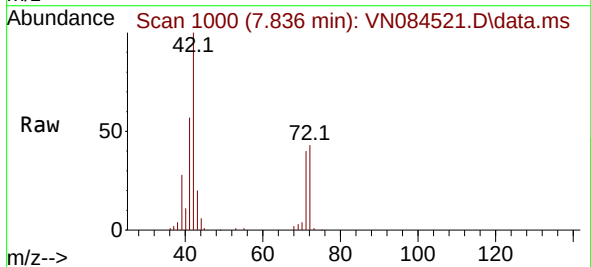
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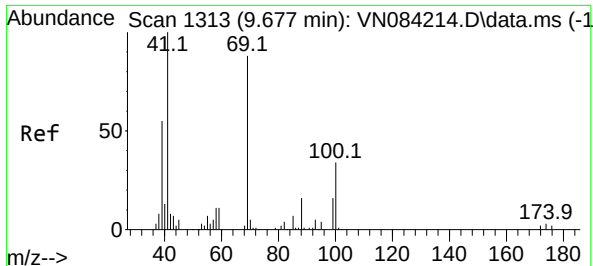
Tgt Ion: 78 Resp: 6009
Ion Ratio Lower Upper
78 100
77 26.3 19.1 28.7



#41
Methacrylonitrile
Concen: 36.517 ug/l
RT: 7.836 min Scan# 1000
Delta R.T. 0.059 min
Lab File: VN084521.D
Acq: 25 Oct 2024 17:14

Tgt Ion: 41 Resp: 48841
Ion Ratio Lower Upper
41 100
39 49.6 43.3 64.9
67 0.0 56.1 84.1#
52 0.0 24.5 36.7#

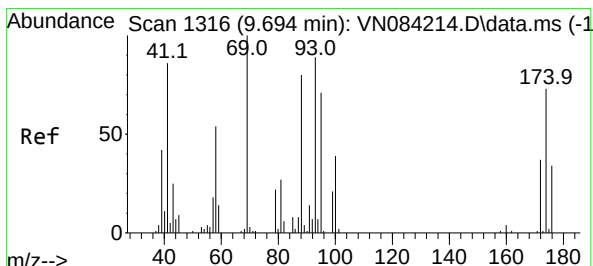
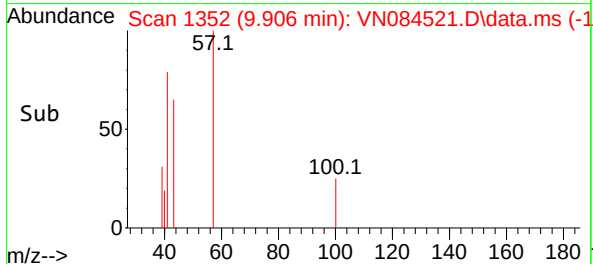
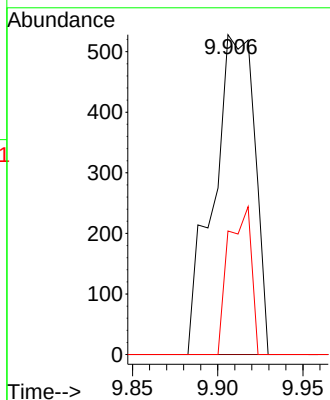
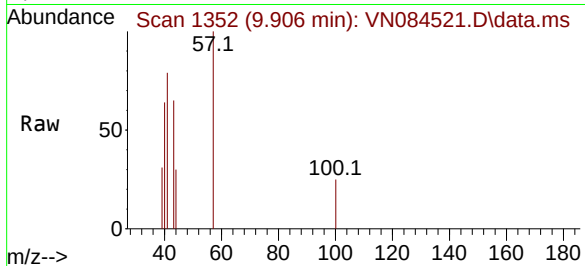




#48
Methyl methacrylate
Concen: 0.464 ug/l
RT: 9.906 min Scan# 1352
Delta R.T. 0.229 min
Lab File: VN084521.D
Acq: 25 Oct 2024 17:14

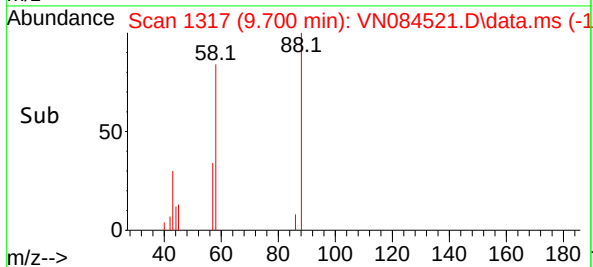
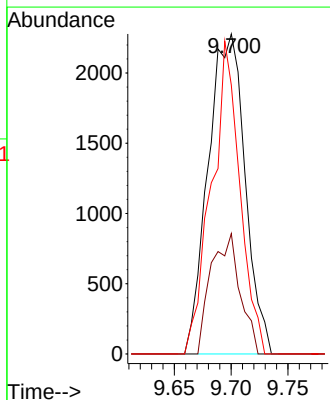
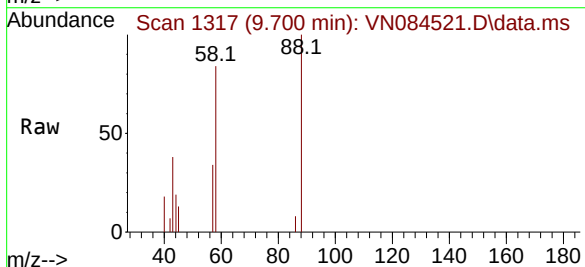
Instrument :
MSVOA_N
ClientSampleId :
241023068-02-VOA

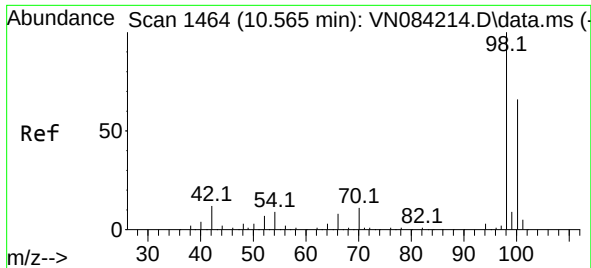
Tgt Ion: 41 Resp: 892
Ion Ratio Lower Upper
41 100
69 0.0 67.1 100.7#
39 25.6 45.8 68.6#



#49
1,4-Dioxane
Concen: 145.402 ug/l
RT: 9.700 min Scan# 1317
Delta R.T. 0.006 min
Lab File: VN084521.D
Acq: 25 Oct 2024 17:14

Tgt Ion: 88 Resp: 5142
Ion Ratio Lower Upper
88 100
43 29.7 25.3 37.9
58 75.5 56.4 84.6

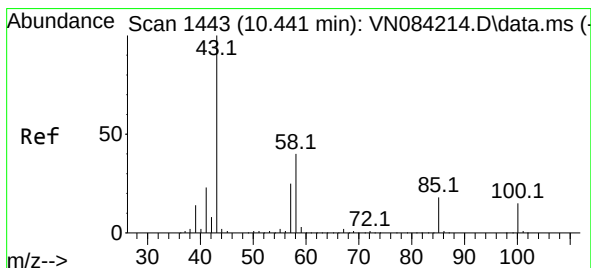
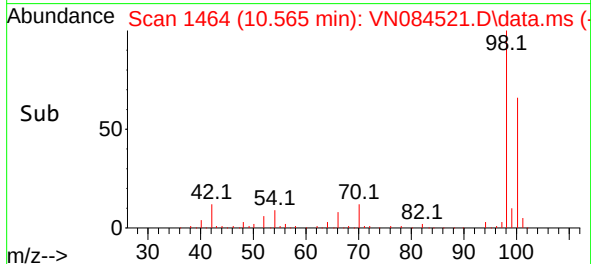
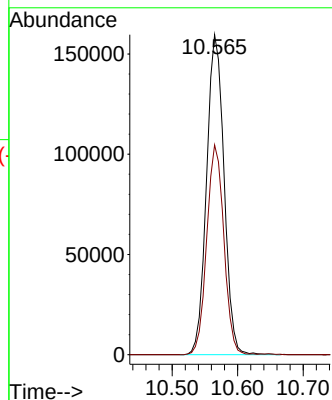
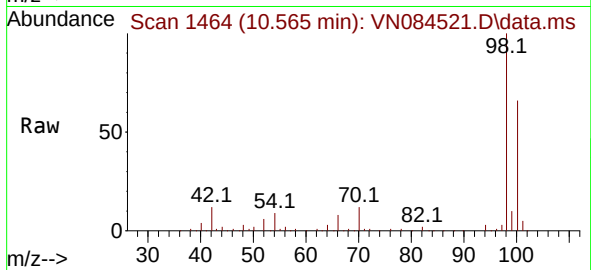




#50
Toluene-d8
Concen: 48.594 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN084521.D
Acq: 25 Oct 2024 17:14

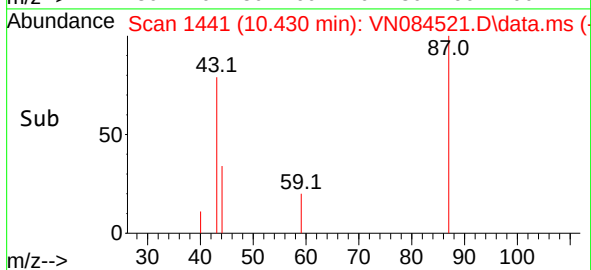
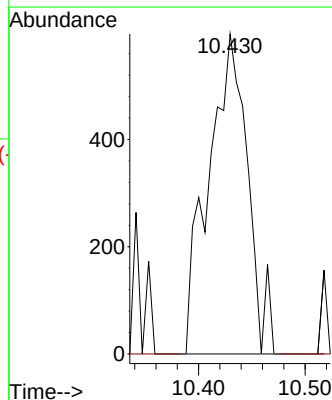
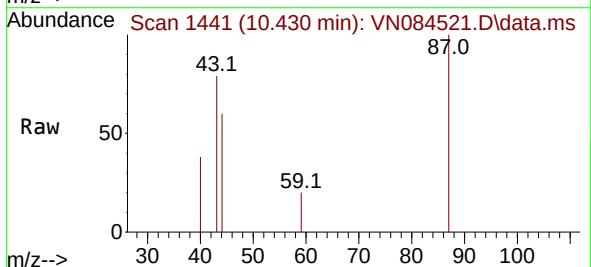
Instrument :
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ClientSampleId :
241023068-02-VOA

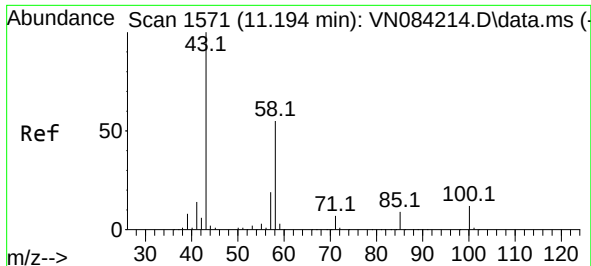
Tgt Ion: 98 Resp: 295569
Ion Ratio Lower Upper
98 100
100 64.3 52.7 79.1



#51
4-Methyl-2-Pentanone
Concen: 0.647 ug/l
RT: 10.430 min Scan# 1441
Delta R.T. -0.012 min
Lab File: VN084521.D
Acq: 25 Oct 2024 17:14

Tgt Ion: 43 Resp: 1517
Ion Ratio Lower Upper
43 100
58 0.0 31.6 47.4#

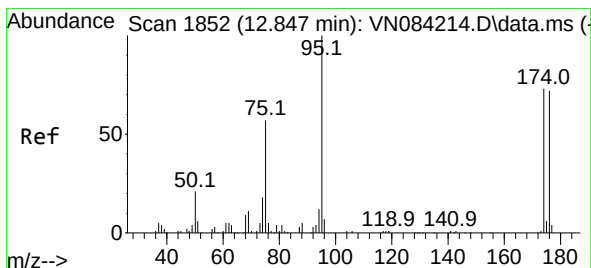
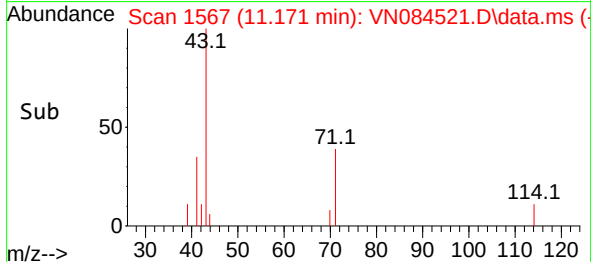
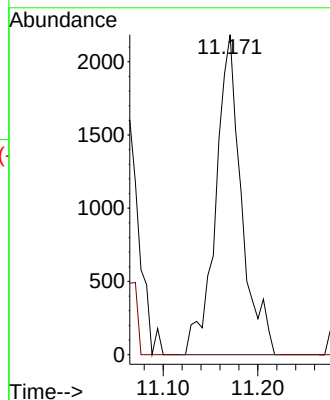
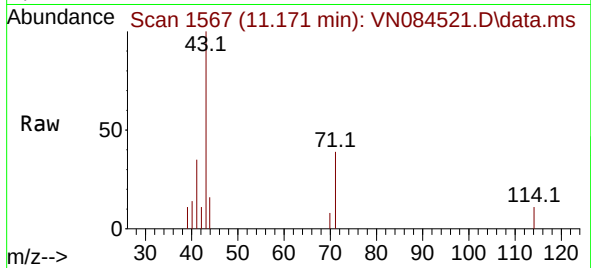




#59
2-Hexanone
Concen: 2.356 ug/l
RT: 11.171 min Scan# 1567
Delta R.T. -0.023 min
Lab File: VN084521.D
Acq: 25 Oct 2024 17:14

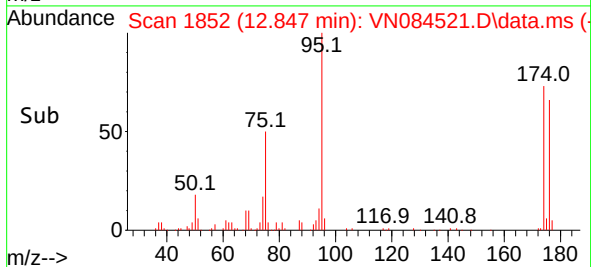
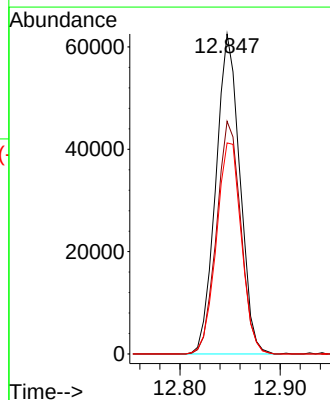
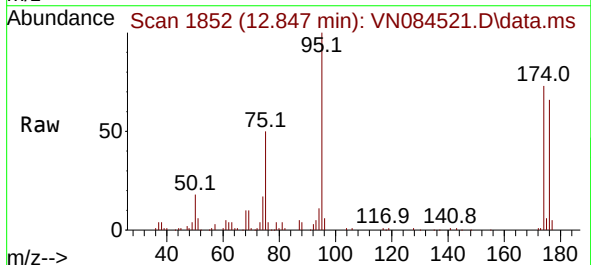
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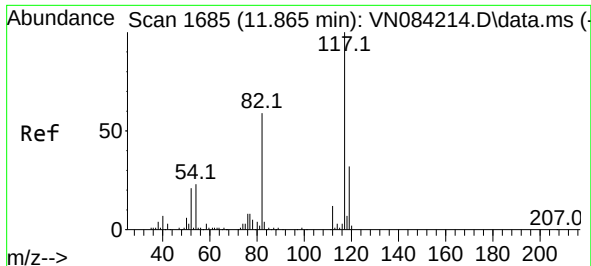
Tgt Ion: 43 Resp: 4130
Ion Ratio Lower Upper
43 100
58 0.0 27.3 81.8#



#62
4-Bromofluorobenzene
Concen: 47.027 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084521.D
Acq: 25 Oct 2024 17:14

Tgt Ion: 95 Resp: 104207
Ion Ratio Lower Upper
95 100
174 73.1 0.0 145.2
176 68.5 0.0 140.0

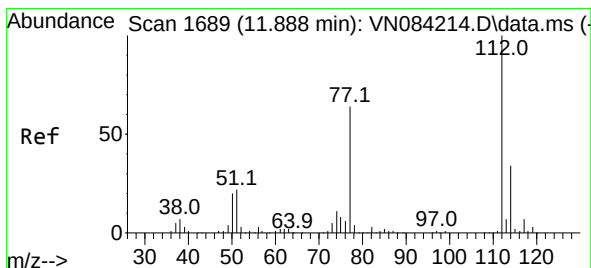
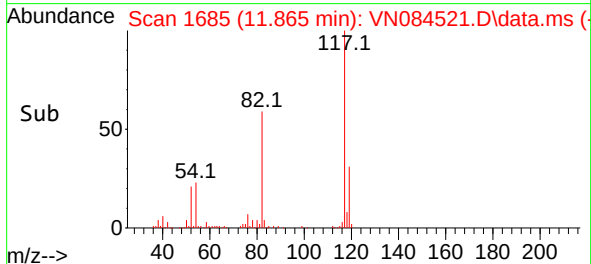
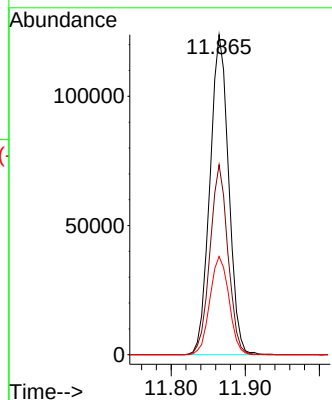
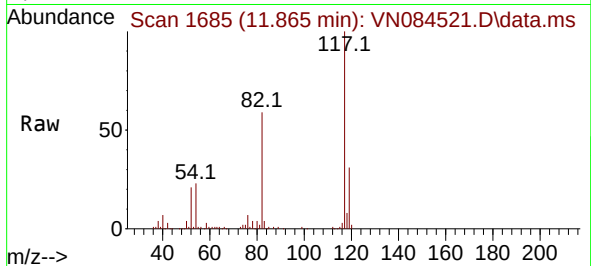




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VN084521.D
Acq: 25 Oct 2024 17:14

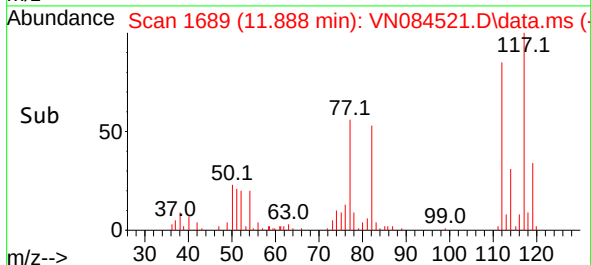
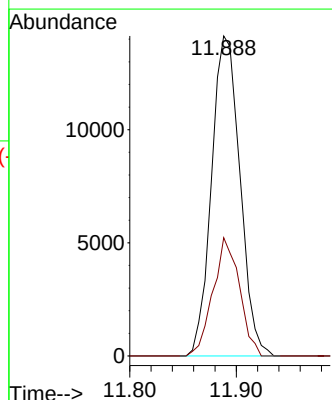
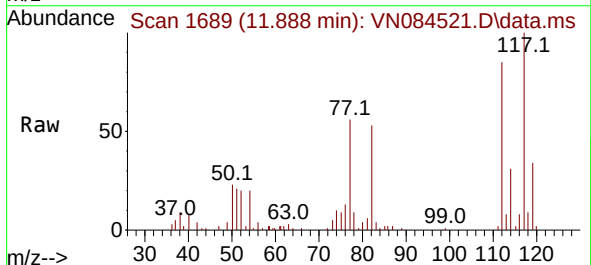
Instrument :
MSVOA_N
ClientSampleId :
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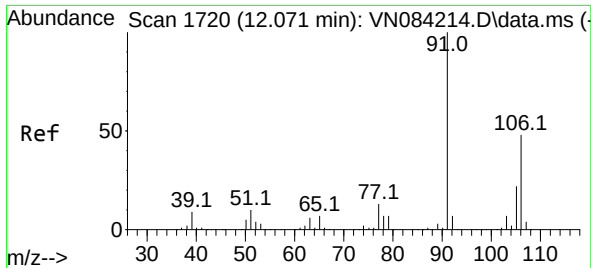
Tgt Ion:117 Resp: 217007
Ion Ratio Lower Upper
117 100
82 59.3 47.2 70.8
119 30.7 25.4 38.0



#65
Chlorobenzene
Concen: 5.451 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN084521.D
Acq: 25 Oct 2024 17:14

Tgt Ion:112 Resp: 26228
Ion Ratio Lower Upper
112 100
114 36.9 27.0 40.6

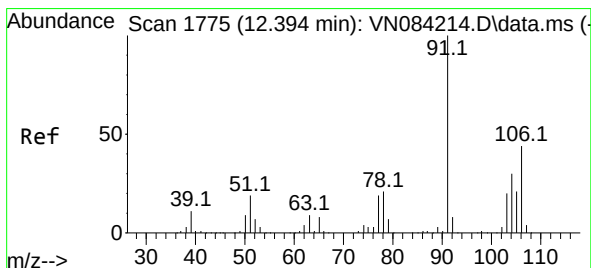
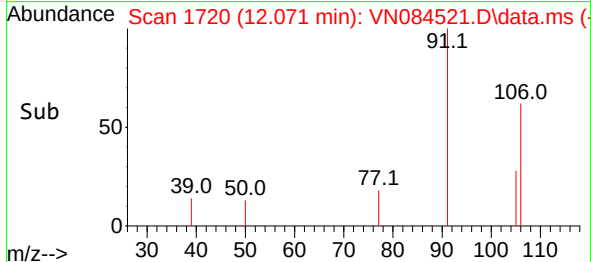
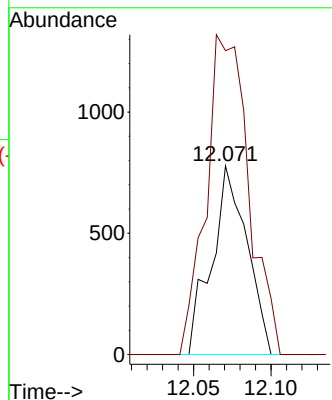
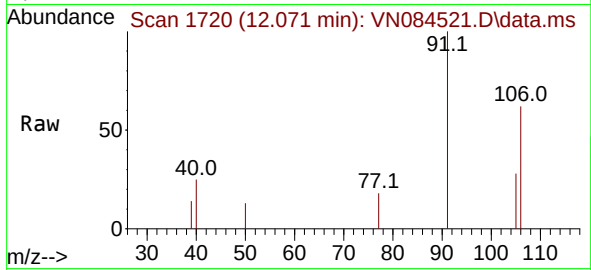




#68
m/p-Xylenes
Concen: 0.392 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN084521.D
Acq: 25 Oct 2024 17:14

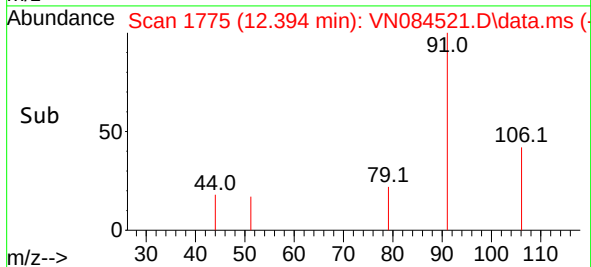
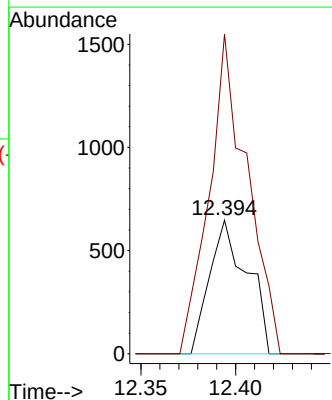
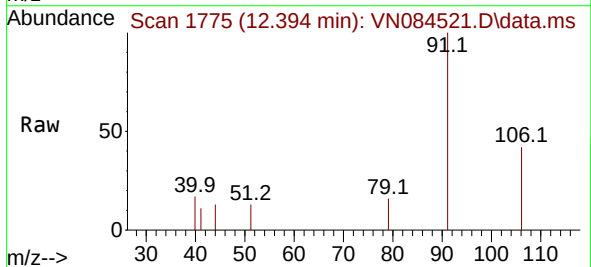
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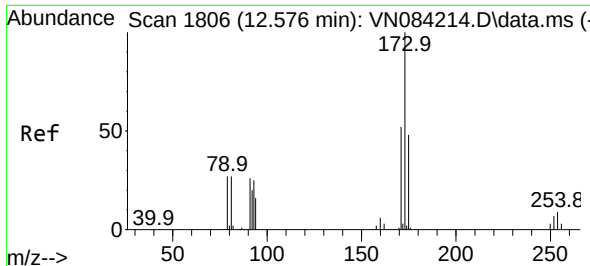
Tgt Ion:106 Resp: 1233
Ion Ratio Lower Upper
106 100
91 204.1 167.1 250.7



#69
o-Xylene
Concen: 0.301 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN084521.D
Acq: 25 Oct 2024 17:14

Tgt Ion:106 Resp: 895
Ion Ratio Lower Upper
106 100
91 241.3 110.2 330.6

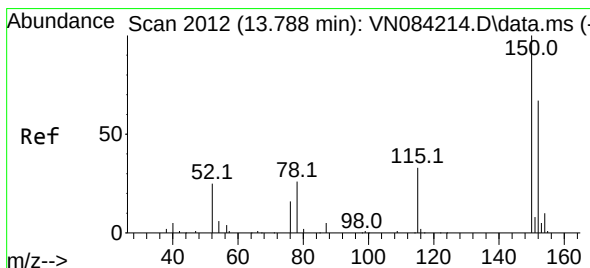
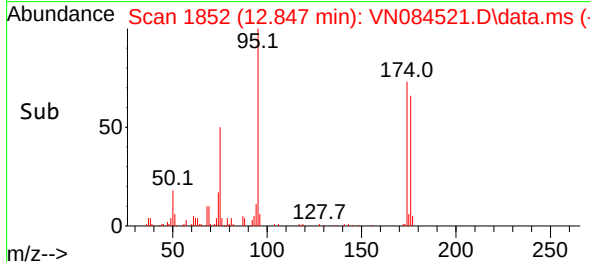
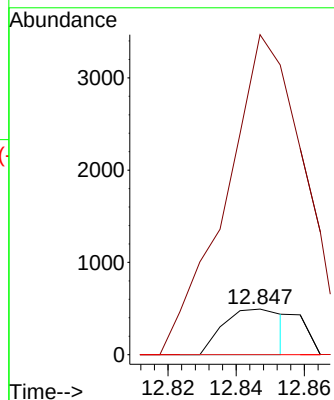
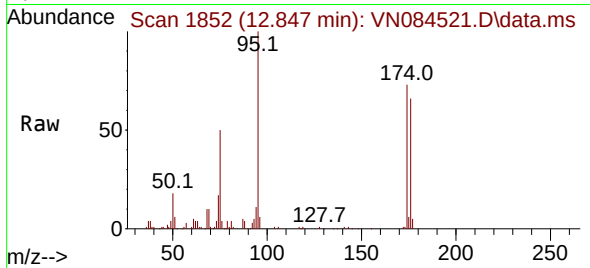




#71
Bromoform
Concen: 0.495 ug/l
RT: 12.847 min Scan# 1806
Delta R.T. 0.271 min
Lab File: VN084521.D
Acq: 25 Oct 2024 17:14

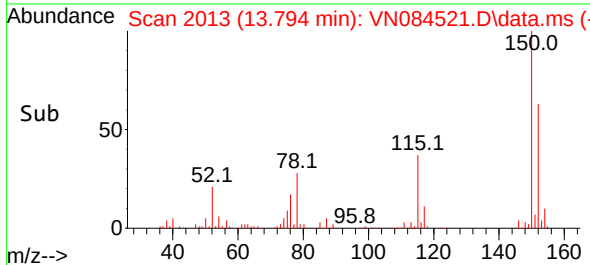
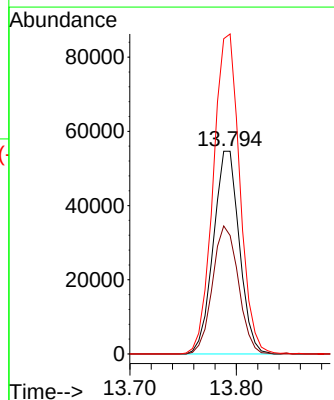
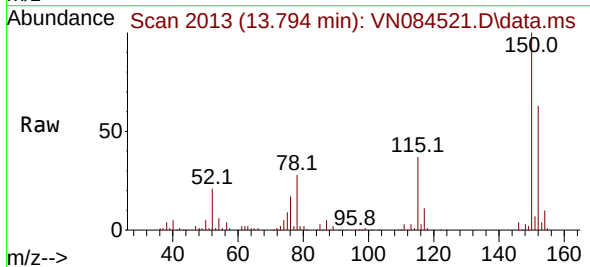
Instrument :
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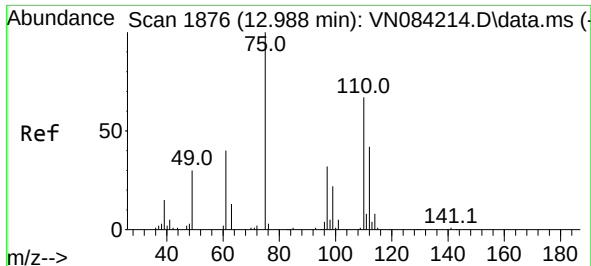
Tgt Ion:173 Resp: 604
Ion Ratio Lower Upper
173 100
175 691.2 23.5 70.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN084521.D
Acq: 25 Oct 2024 17:14

Tgt Ion:152 Resp: 92460
Ion Ratio Lower Upper
152 100
115 62.7 31.3 93.9
150 161.1 0.0 349.8

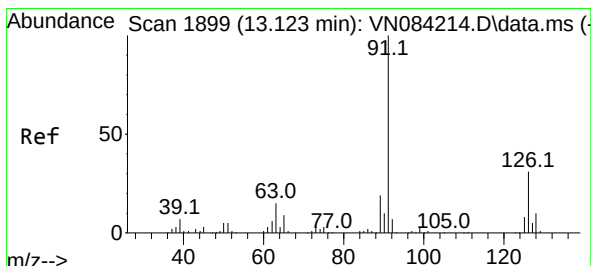
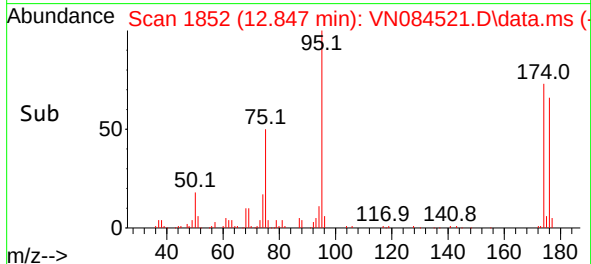
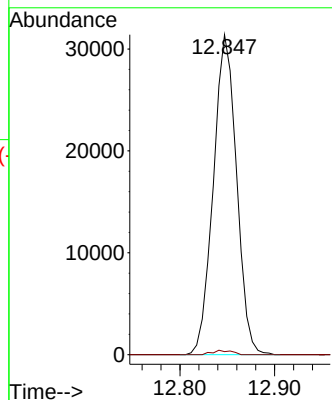
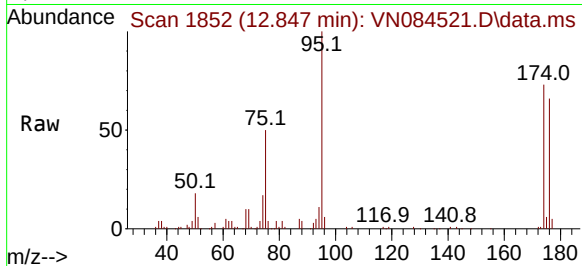




#76
 1,2,3-Trichloropropane
 Concen: 28.322 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.141 min
 Lab File: VN084521.D
 Acq: 25 Oct 2024 17:14

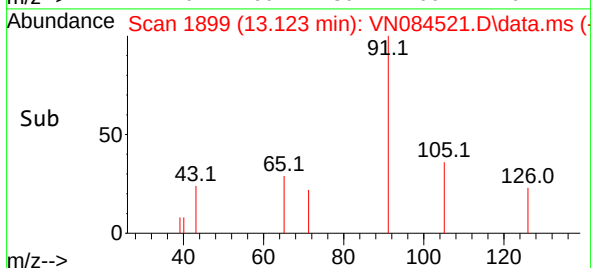
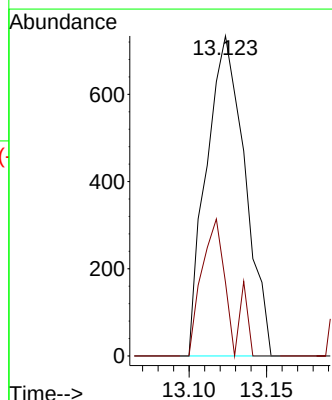
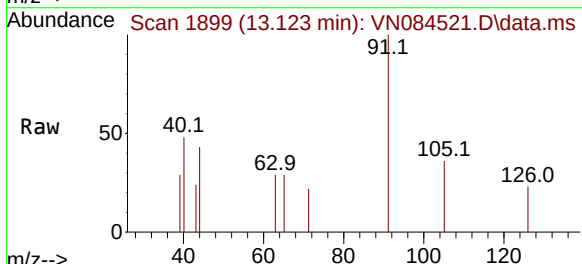
Instrument :
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 ClientSampleId :
 241023068-02-VOA

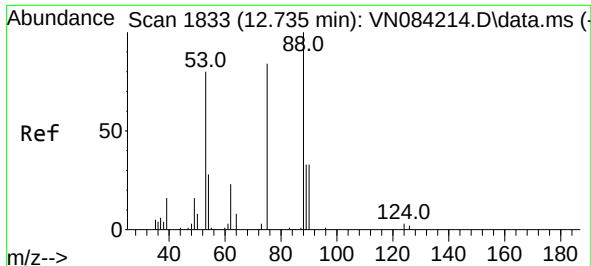
Tgt Ion: 75 Resp: 53460
 Ion Ratio Lower Upper
 75 100
 77 1.1 96.9 290.7#



#79
 2-Chlorotoluene
 Concen: 0.242 ug/l
 RT: 13.123 min Scan# 1899
 Delta R.T. 0.000 min
 Lab File: VN084521.D
 Acq: 25 Oct 2024 17:14

Tgt Ion: 91 Resp: 1263
 Ion Ratio Lower Upper
 91 100
 126 29.7 15.7 47.1

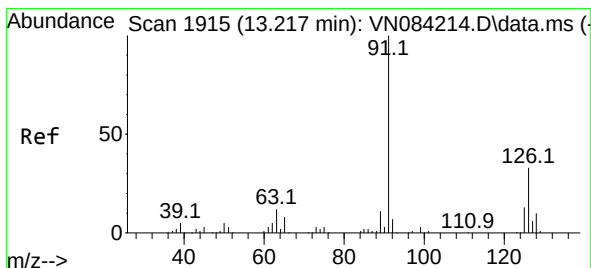
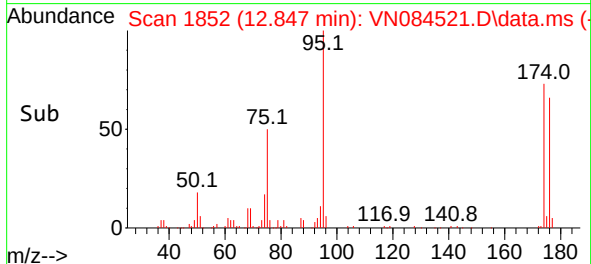
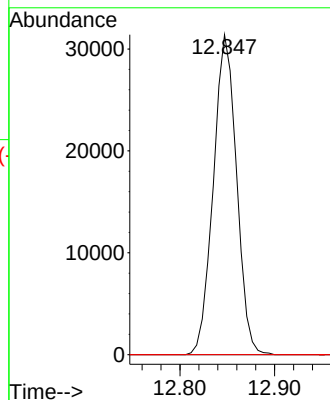
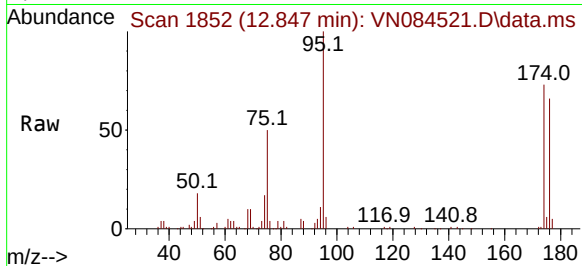




#81
trans-1,4-Dichloro-2-butene
Concen: 67.900 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN084521.D
Acq: 25 Oct 2024 17:14

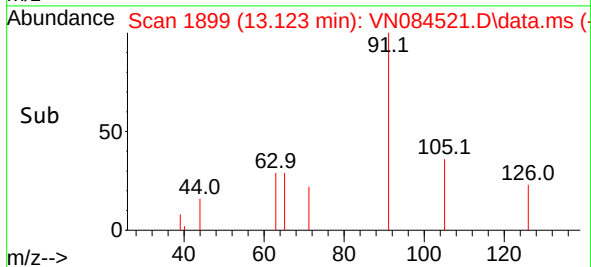
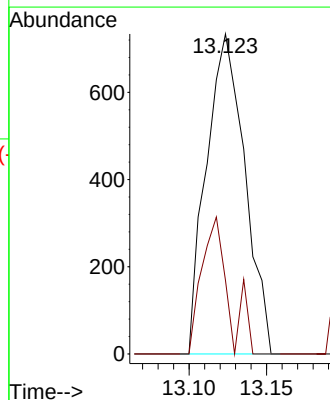
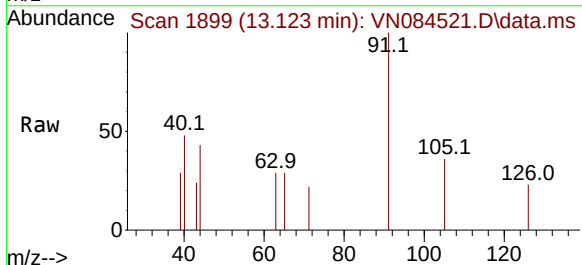
Instrument :
MSVOA_N
ClientSampleId :
241023068-02-VOA

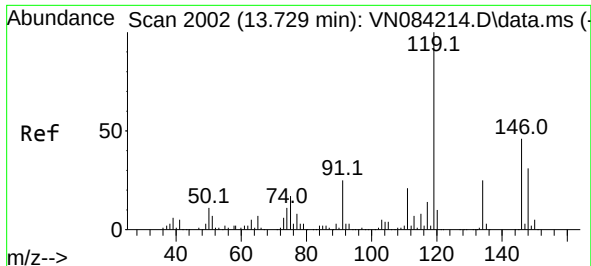
Tgt Ion: 75 Resp: 53460
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 35.5 53.3#



#82
4-Chlorotoluene
Concen: 0.241 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.094 min
Lab File: VN084521.D
Acq: 25 Oct 2024 17:14

Tgt Ion: 91 Resp: 1263
Ion Ratio Lower Upper
91 100
126 29.7 15.7 47.1

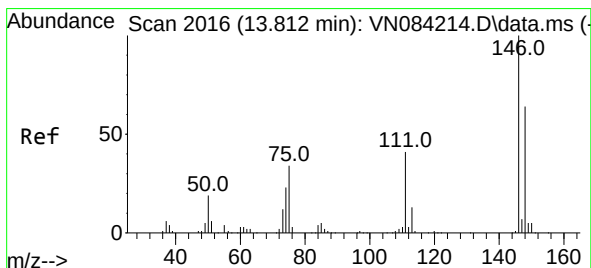
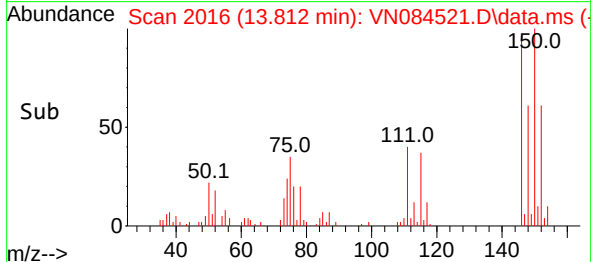
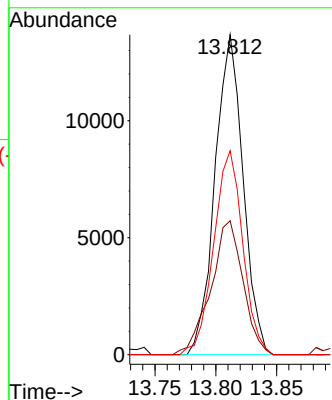
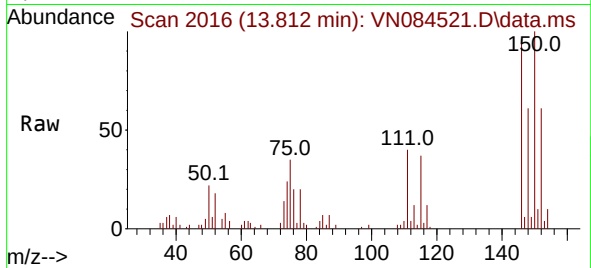




#87
1,3-Dichlorobenzene
Concen: 6.879 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.082 min
Lab File: VN084521.D
Acq: 25 Oct 2024 17:14

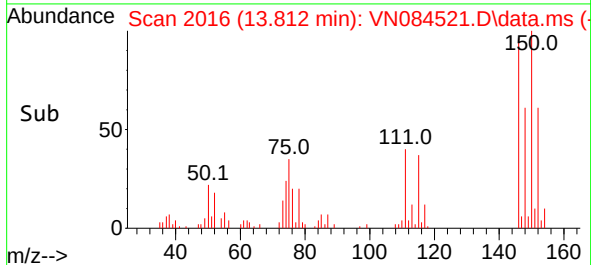
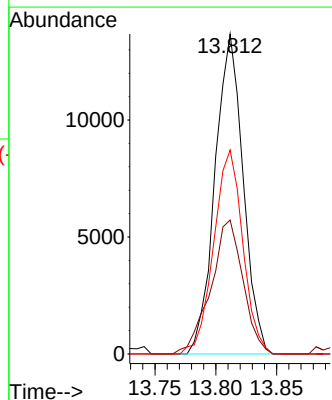
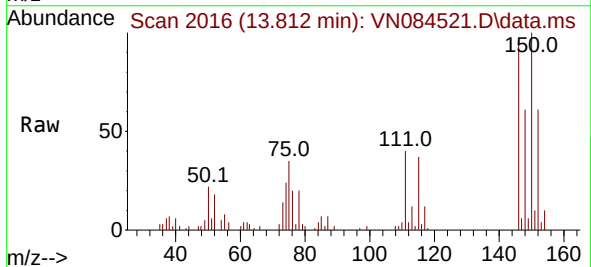
Instrument :
MSVOA_N
ClientSampleId :
241023068-02-VOA

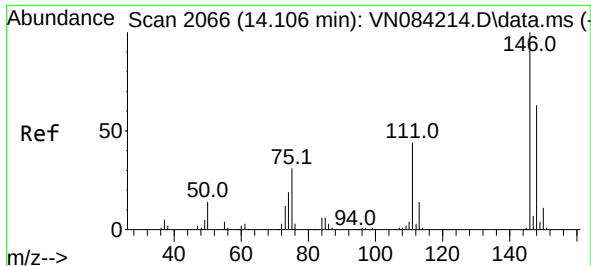
Tgt Ion:146 Resp: 21962
Ion Ratio Lower Upper
146 100
111 47.9 21.8 65.3
148 65.9 31.9 95.7



#88
1,4-Dichlorobenzene
Concen: 6.812 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN084521.D
Acq: 25 Oct 2024 17:14

Tgt Ion:146 Resp: 21962
Ion Ratio Lower Upper
146 100
111 47.9 21.2 63.6
148 65.9 31.9 95.9





#91

1,2-Dichlorobenzene

Concen: 0.349 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. -0.006 min

Lab File: VN084521.D

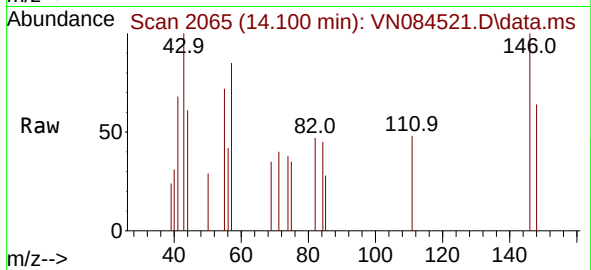
Acq: 25 Oct 2024 17:14

Instrument :

MSVOA_N

ClientSampleId :

241023068-02-VOA



Tgt Ion:146 Resp: 1092

Ion Ratio Lower Upper

146 100

111 43.1 22.0 66.0

148 70.7 32.1 96.3

