

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
 Data File : VN084848.D
 Acq On : 14 Nov 2024 13:48
 Operator : JC\MD
 Sample : P4844-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 241113075-01-VOA

Quant Time: Nov 15 00:46:20 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 Response via : Initial Calibration

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

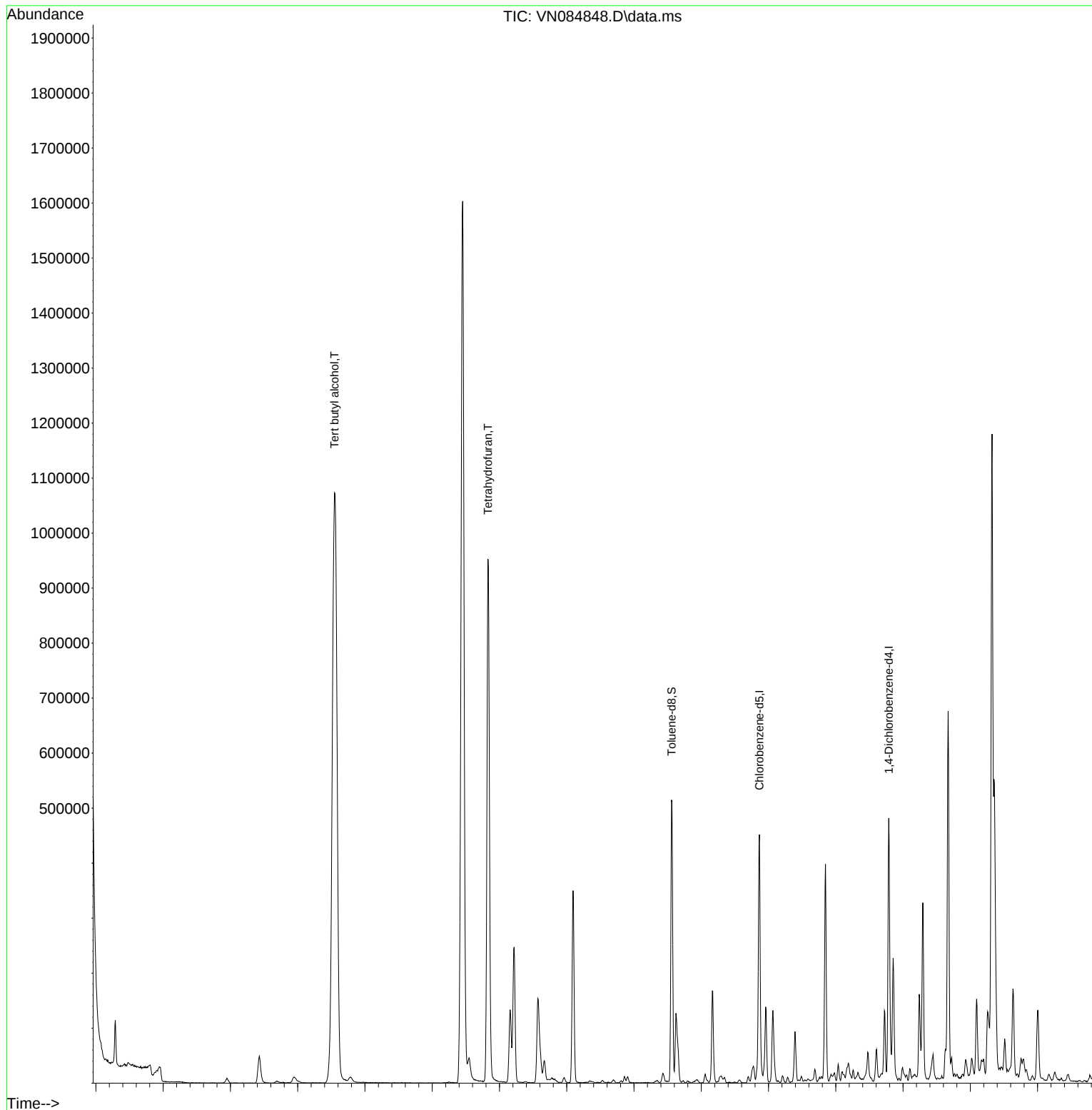
Internal Standards						
1) Pentafluorobenzene	8.212	168	183695	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	9.094	114	303192	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.864	117	260456	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	122872	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	121978	45.974	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	91.940%		
35) Dibromofluoromethane	8.159	113	98062	47.783	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.560%		
50) Toluene-d8	10.559	98	353054	46.701	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	93.400%		
62) 4-Bromofluorobenzene	12.847	95	135690	48.026	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	96.060%		
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.947	74	4810	3.644	ug/l	98
11) Tert butyl alcohol	5.547	59	3085955	8811.675	ug/l	100
16) Acetone	4.424	43	57994	73.658	ug/l	99
17) Carbon Disulfide	4.688	76	8058	1.251	ug/l	98
19) Methyl tert-butyl Ether	5.788	73	12993	2.026	ug/l #	81
29) Tetrahydrofuran	7.829	42	752337	916.176	ug/l	92
40) Benzene	8.594	78	33399	3.654	ug/l	96
49) 1,4-Dioxane	9.694	88	3780	106.137	ug/l	96
52) Toluene	10.623	92	51565	9.646	ug/l	98
65) Chlorobenzene	11.888	112	8433	1.447	ug/l	93
67) Ethyl Benzene	11.959	91	93482	9.611	ug/l	94
68) m/p-Xylenes	12.064	106	41473	11.263	ug/l	98
69) o-Xylene	12.394	106	20990	6.093	ug/l	92
70) Styrene	12.411	104	7848	1.306	ug/l #	66
73) Isopropylbenzene	12.694	105	9651	1.121	ug/l	98
78) n-propylbenzene	13.035	91	9460	0.938	ug/l	99
79) 2-Chlorotoluene	13.123	91	5550	0.842	ug/l	80
80) 1,3,5-Trimethylbenzene	13.164	105	8465	1.186	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	26726	3.628	ug/l	95
86) p-Isopropyltoluene	13.729	119	65804	9.617	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	3664	0.811	ug/l	84
88) 1,4-Dichlorobenzene	13.811	146	13406	2.396	ug/l	87
89) n-Butylbenzene	14.053	91	6216	0.971	ug/l	86
91) 1,2-Dichlorobenzene	14.105	146	3293	0.759	ug/l	90
93) 1,2,4-Trichlorobenzene	15.382	180	4275	1.799	ug/l	95
94) Hexachlorobutadiene	15.499	225	1245	1.193	ug/l	86
95) Naphthalene	15.635	128	151473	21.298	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	4341	1.882	ug/l	99

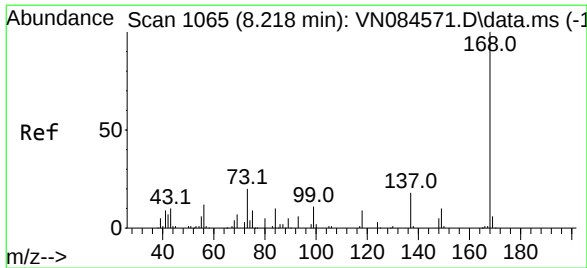
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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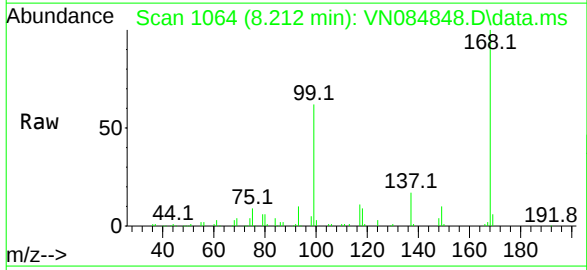
Quant Time: Nov 15 00:46:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
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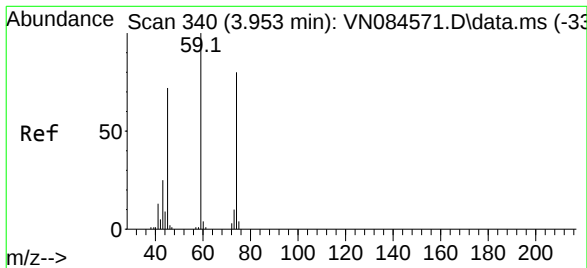
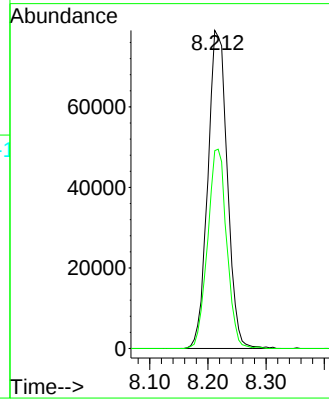
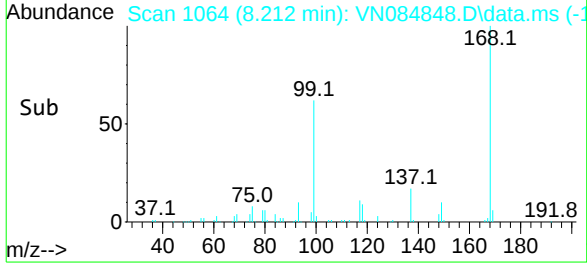


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1065
Delta R.T. -0.012 min
Lab File: VN084848.D
Acq: 14 Nov 2024 13:48

Instrument :
MSVOA_N
ClientSampleId :
241113075-01-VOA

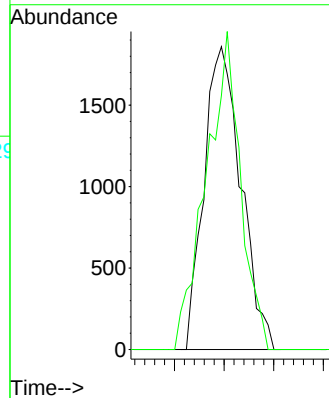
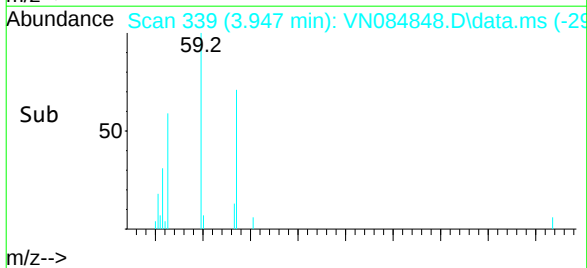
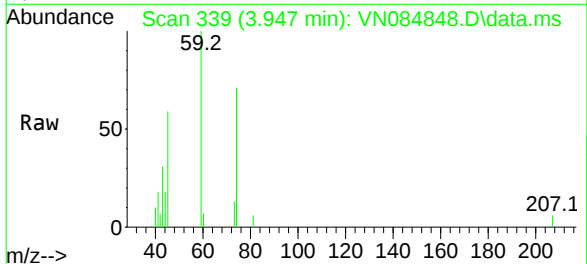


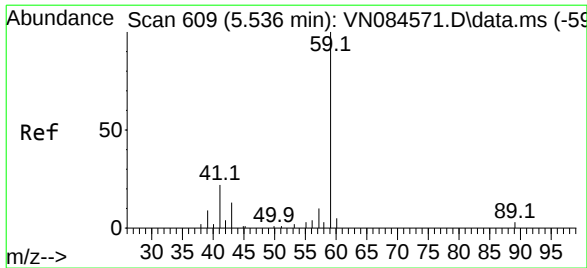
Tgt Ion:168 Resp: 183695
Ion Ratio Lower Upper
168 100
99 62.2 54.2 81.2



#8
Diethyl Ether
Concen: 3.644 ug/l
RT: 3.947 min Scan# 339
Delta R.T. -0.012 min
Lab File: VN084848.D
Acq: 14 Nov 2024 13:48

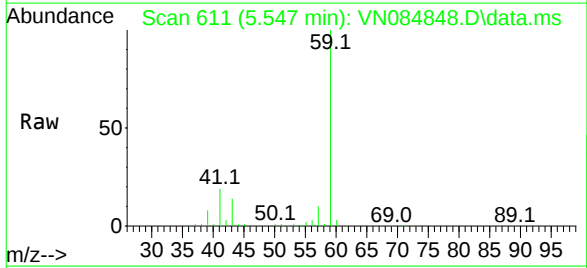
Tgt Ion: 74 Resp: 4810
Ion Ratio Lower Upper
74 100
45 97.4 47.7 143.1



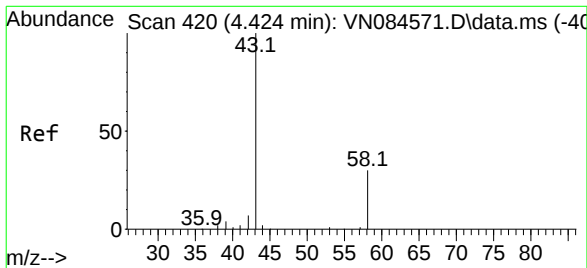
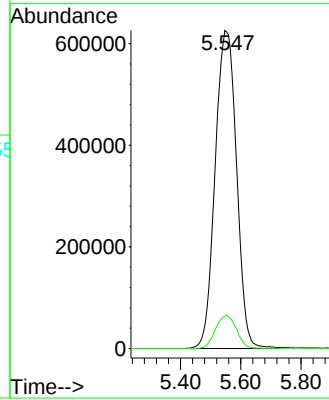
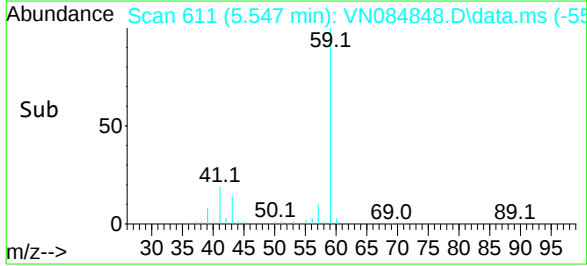


#11
Tert butyl alcohol
Concen: 8811.675 ug/l
RT: 5.547 min Scan# 611
Delta R.T. 0.023 min
Lab File: VN084848.D
Acq: 14 Nov 2024 13:48

Instrument :
MSVOA_N
ClientSampleId :
241113075-01-VOA

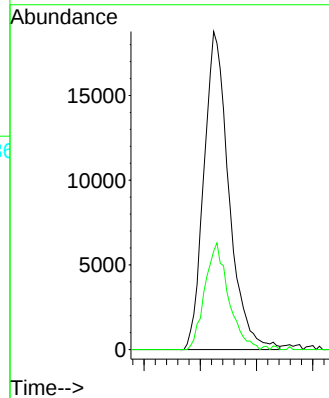
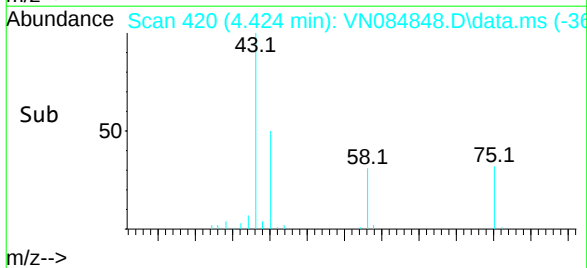
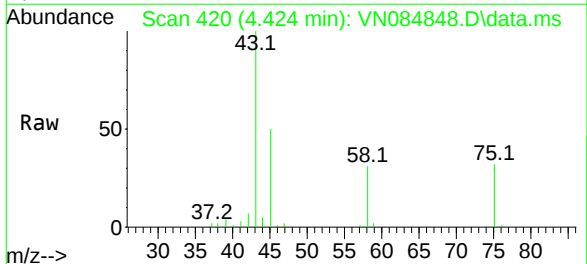


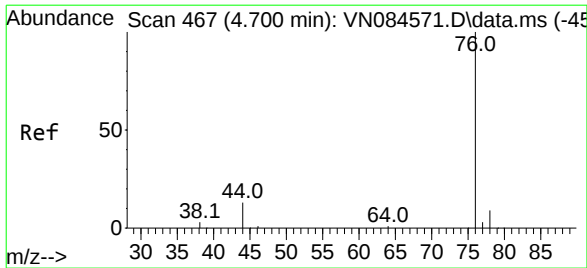
Tgt Ion: 59 Resp: 3085955
Ion Ratio Lower Upper
59 100
57 10.2 8.2 12.2



#16
Acetone
Concen: 73.658 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN084848.D
Acq: 14 Nov 2024 13:48

Tgt Ion: 43 Resp: 57994
Ion Ratio Lower Upper
43 100
58 30.9 24.4 36.6





#17

Carbon Disulfide

Concen: 1.251 ug/l

RT: 4.688 min Scan# 46

Delta R.T. -0.024 min

Lab File: VN084848.D

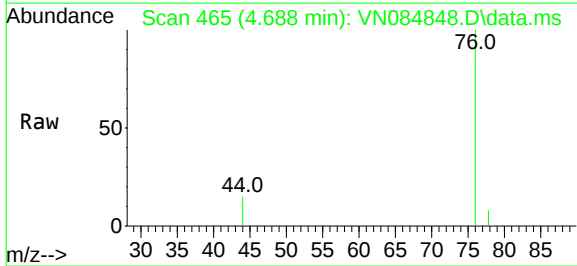
Acq: 14 Nov 2024 13:48

Instrument :

MSVOA_N

ClientSampleId :

241113075-01-VOA

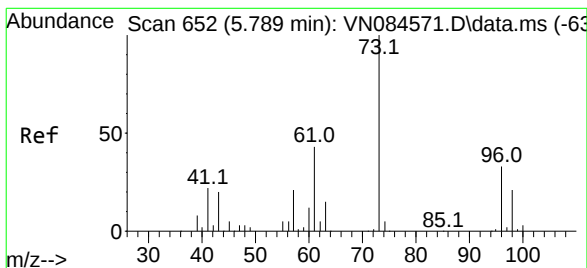
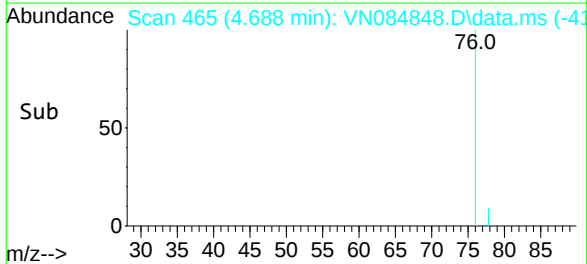
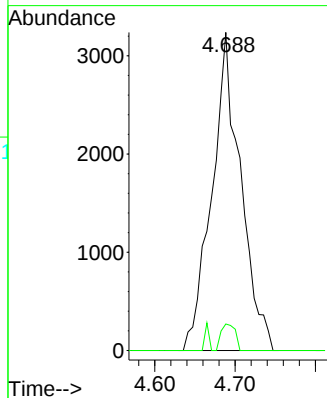


Tgt Ion: 76 Resp: 8058

Ion Ratio Lower Upper

76 100

78 8.3 7.3 10.9



#19

Methyl tert-butyl Ether

Concen: 2.026 ug/l

RT: 5.788 min Scan# 652

Delta R.T. -0.006 min

Lab File: VN084848.D

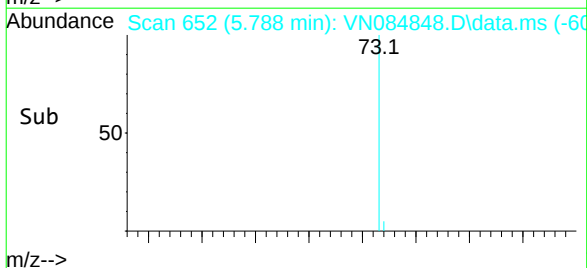
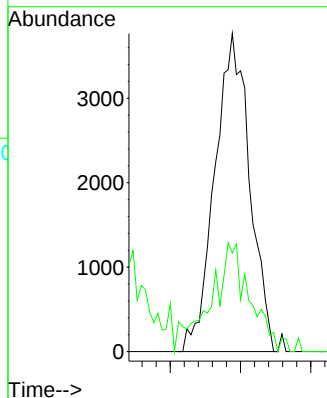
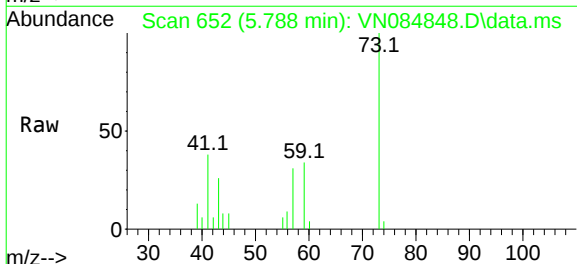
Acq: 14 Nov 2024 13:48

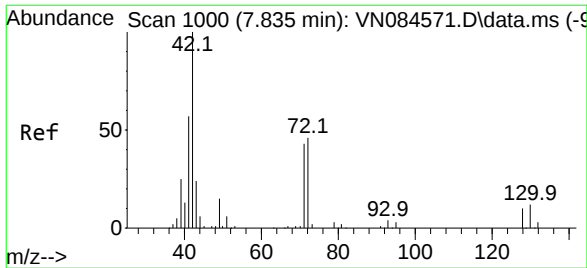
Tgt Ion: 73 Resp: 12993

Ion Ratio Lower Upper

73 100

57 31.0 17.7 26.5#





#29

Tetrahydrofuran

Concen: 916.176 ug/l

RT: 7.829 min Scan# 99

Delta R.T. -0.006 min

Lab File: VN084848.D

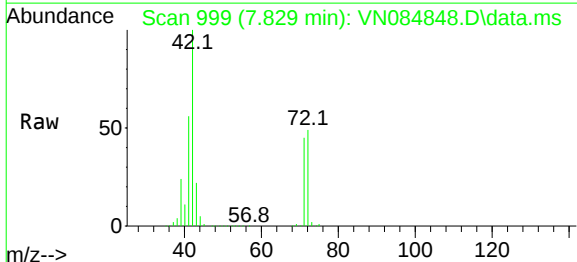
Acq: 14 Nov 2024 13:48

Instrument :

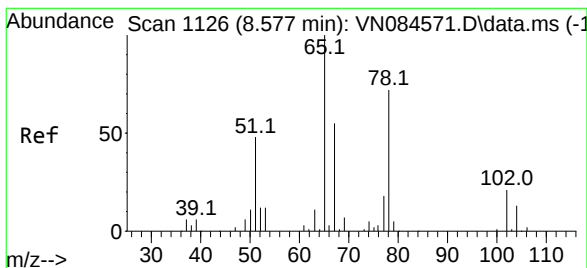
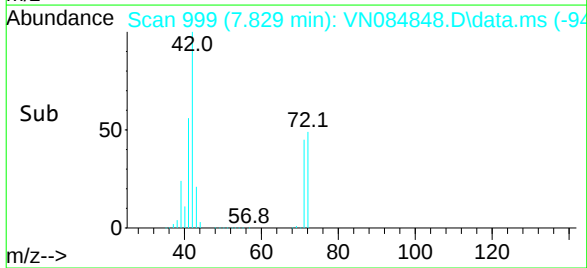
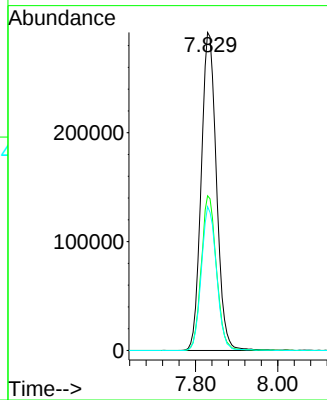
MSVOA_N

ClientSampleId :

241113075-01-VOA



Tgt Ion:	42	Resp:	752337
Ion	Ratio	Lower	Upper
42	100		
72	48.1	34.6	51.8
71	45.1	32.2	48.4



#33

1,2-Dichloroethane-d4

Concen: 45.974 ug/l

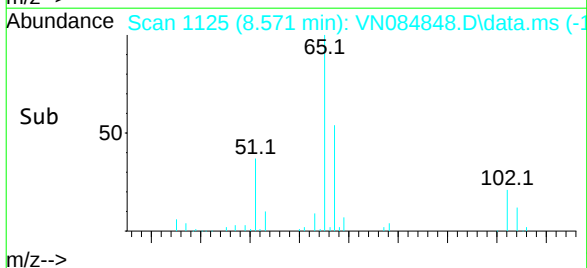
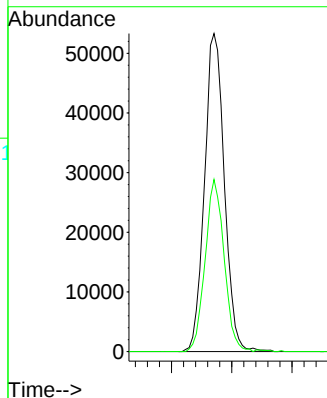
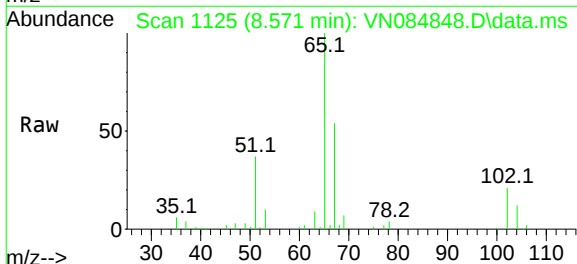
RT: 8.571 min Scan# 1125

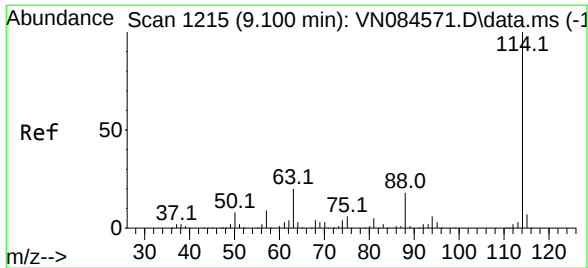
Delta R.T. -0.006 min

Lab File: VN084848.D

Acq: 14 Nov 2024 13:48

Tgt Ion:	65	Resp:	121978
Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	102.0

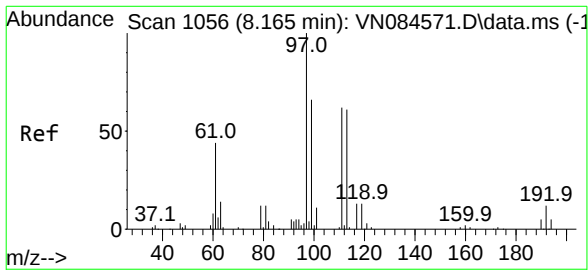
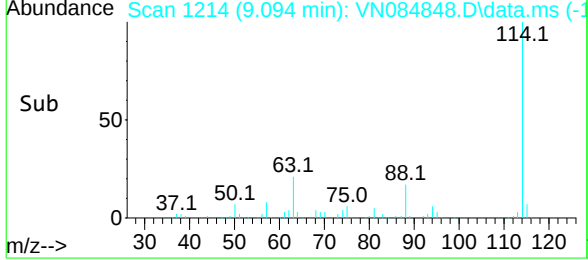
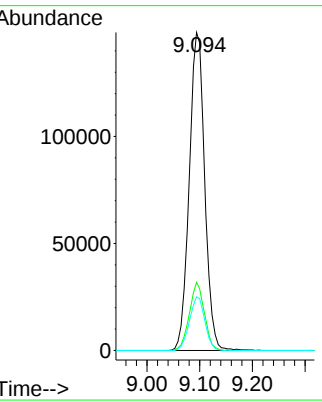
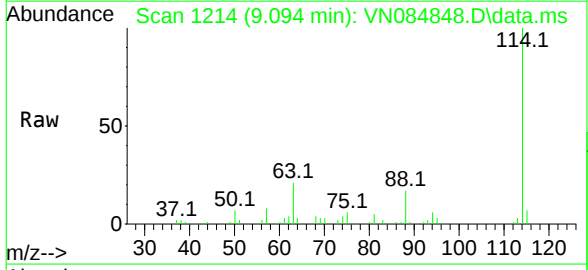




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.094 min Scan# 1214
 Delta R.T. -0.006 min
 Lab File: VN084848.D
 Acq: 14 Nov 2024 13:48

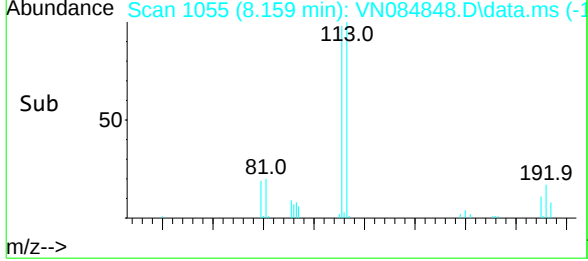
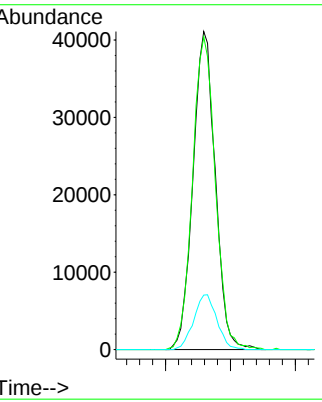
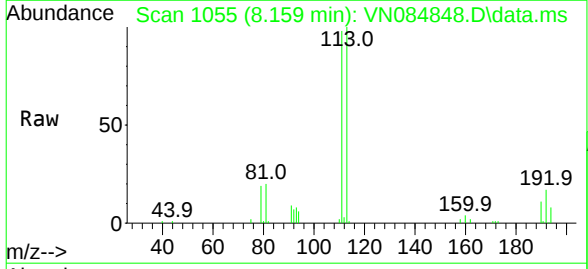
Instrument :
 MSVOA_N
 ClientSampleId :
 241113075-01-VOA

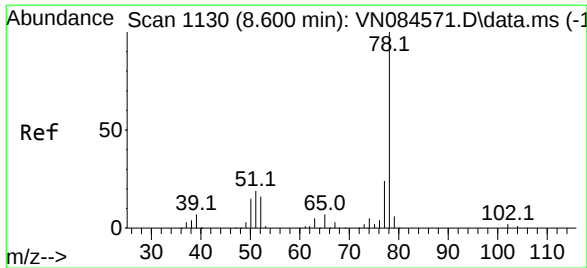
Tgt Ion:	114	Resp:	303192
Ion Ratio	Lower	Upper	
114	100		
63	21.5	0.0	43.8
88	16.9	0.0	31.6



#35
 Dibromofluoromethane
 Concen: 47.783 ug/l
 RT: 8.159 min Scan# 1055
 Delta R.T. -0.006 min
 Lab File: VN084848.D
 Acq: 14 Nov 2024 13:48

Tgt Ion:	113	Resp:	98062
Ion Ratio	Lower	Upper	
113	100		
111	100.5	83.3	124.9
192	17.9	13.5	20.3





#40

Benzene

Concen: 3.654 ug/l

RT: 8.594 min Scan# 1130

Delta R.T. -0.012 min

Lab File: VN084848.D

Acq: 14 Nov 2024 13:48

Instrument :

MSVOA_N

ClientSampleId :

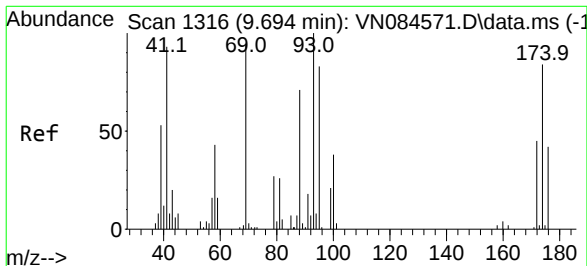
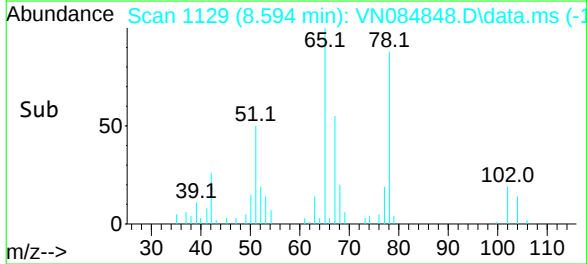
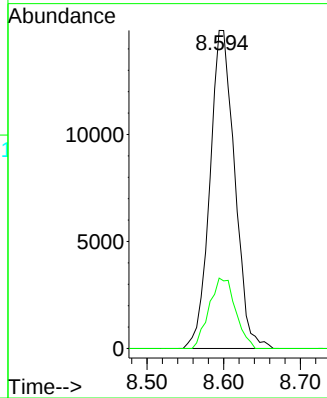
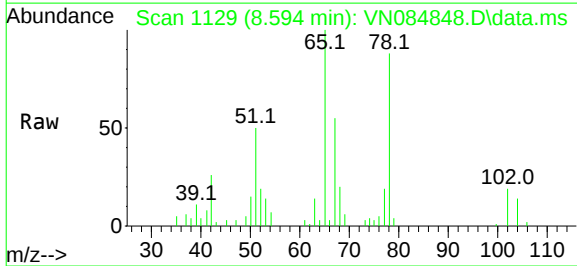
241113075-01-VOA

Tgt Ion: 78 Resp: 33399

Ion Ratio Lower Upper

78 100

77 22.1 19.1 28.7



#49

1,4-Dioxane

Concen: 106.137 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.000 min

Lab File: VN084848.D

Acq: 14 Nov 2024 13:48

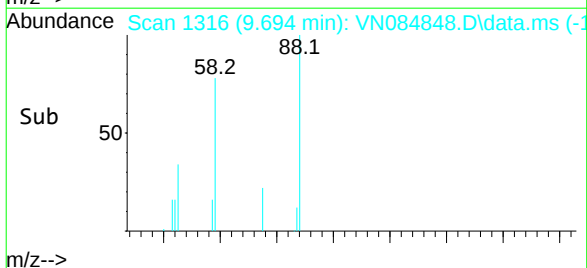
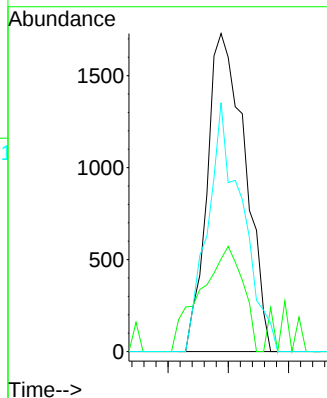
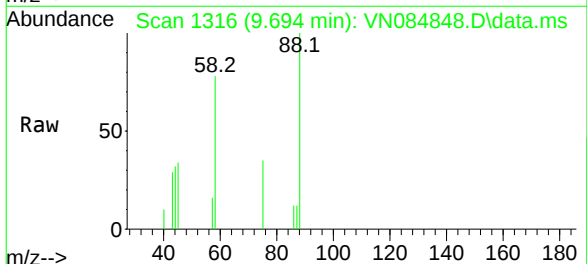
Tgt Ion: 88 Resp: 3780

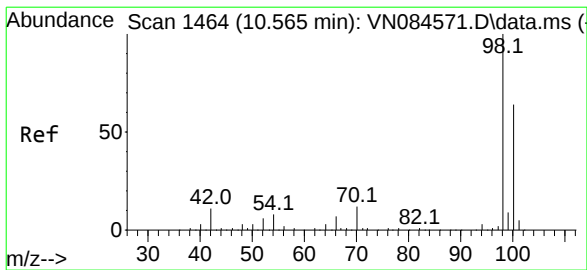
Ion Ratio Lower Upper

88 100

43 37.4 25.3 37.9

58 71.3 56.4 84.6





#50

Toluene-d8

Concen: 46.701 ug/l

RT: 10.559 min Scan# 14

Delta R.T. -0.006 min

Lab File: VN084848.D

Acq: 14 Nov 2024 13:48

Instrument :

MSVOA_N

ClientSampleId :

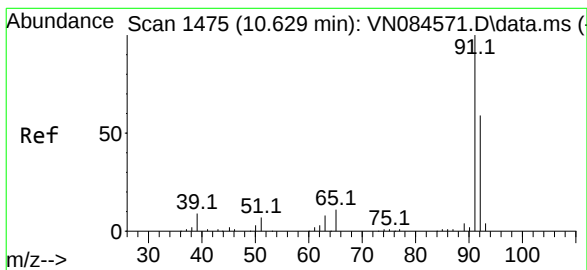
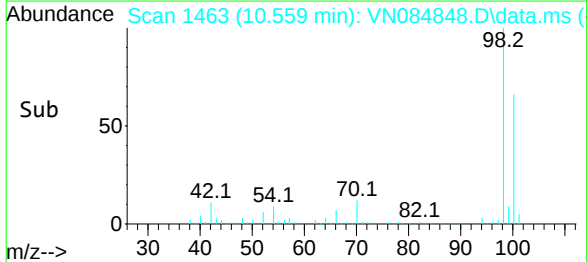
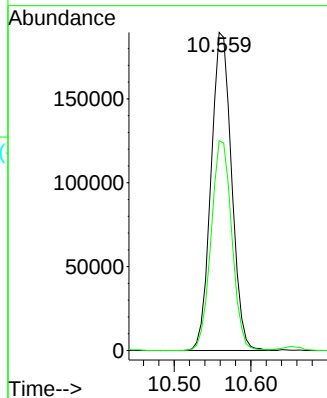
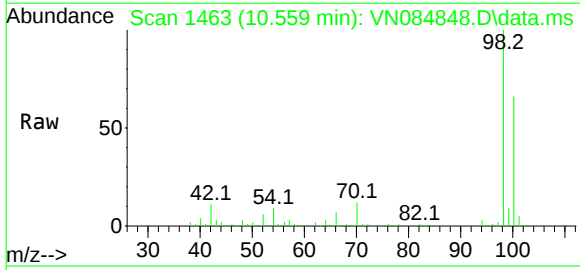
241113075-01-VOA

Tgt Ion: 98 Resp: 353054

Ion Ratio Lower Upper

98 100

100 66.4 52.7 79.1



#52

Toluene

Concen: 9.646 ug/l

RT: 10.623 min Scan# 1474

Delta R.T. -0.006 min

Lab File: VN084848.D

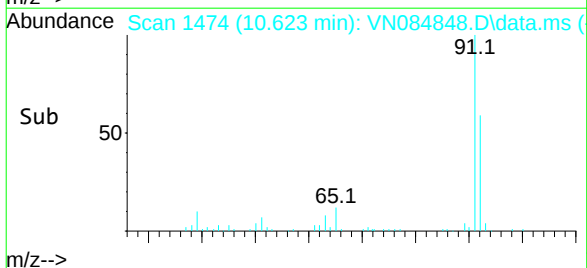
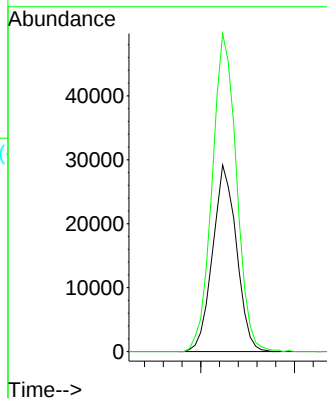
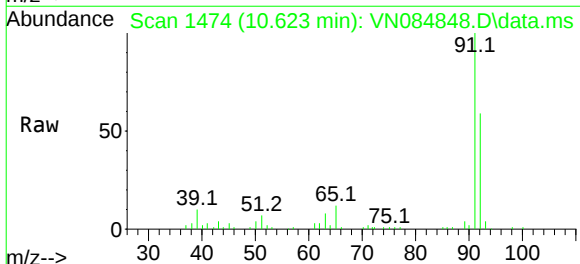
Acq: 14 Nov 2024 13:48

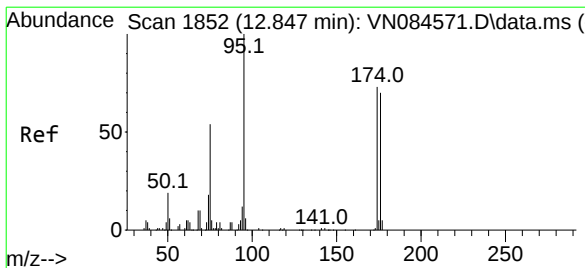
Tgt Ion: 92 Resp: 51565

Ion Ratio Lower Upper

92 100

91 174.3 137.3 205.9





#62

4-Bromofluorobenzene

Concen: 48.026 ug/l

RT: 12.847 min Scan# 18

Delta R.T. -0.000 min

Lab File: VN084848.D

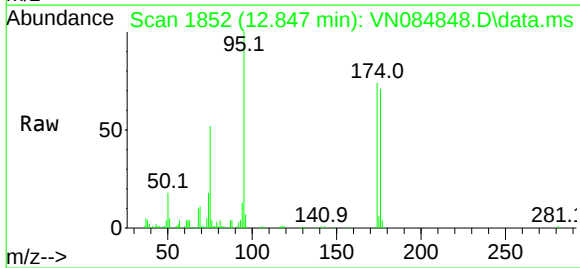
Acq: 14 Nov 2024 13:48

Instrument :

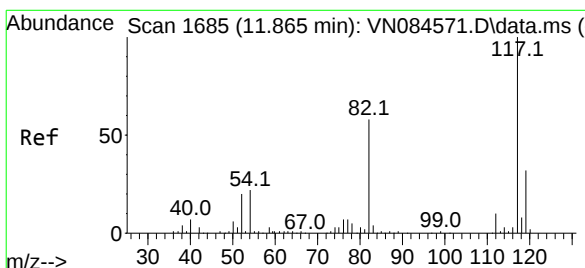
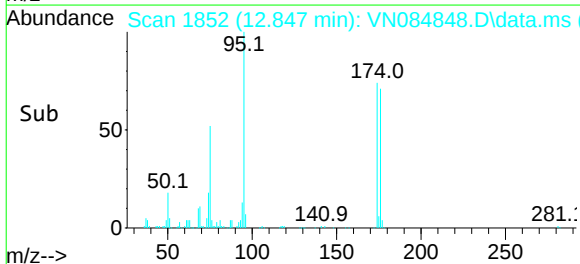
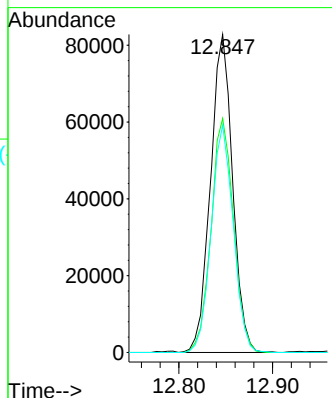
MSVOA_N

ClientSampleId :

241113075-01-VOA



Tgt Ion:	95	Resp:	135690
Ion	Ratio	Lower	Upper
95	100		
174	74.8	0.0	145.2
176	71.3	0.0	140.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

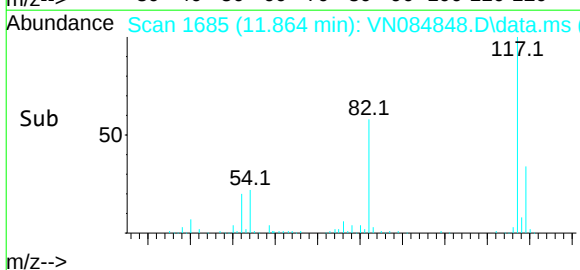
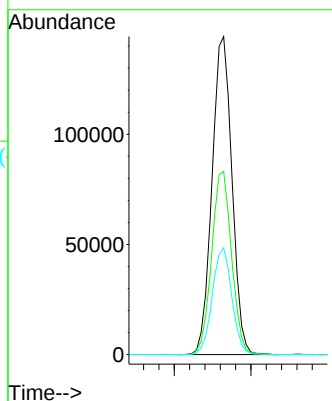
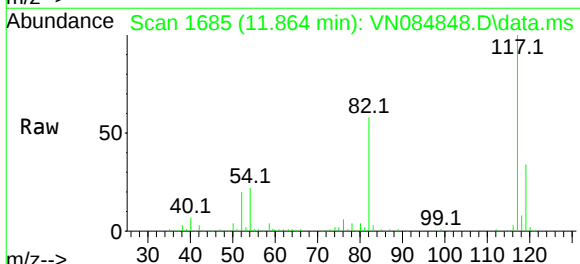
RT: 11.864 min Scan# 1685

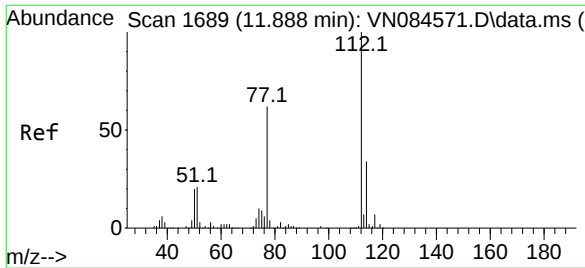
Delta R.T. -0.001 min

Lab File: VN084848.D

Acq: 14 Nov 2024 13:48

Tgt Ion:	117	Resp:	260456
Ion	Ratio	Lower	Upper
117	100		
82	57.6	47.2	70.8
119	33.6	25.4	38.0





#65

Chlorobenzene

Concen: 1.447 ug/l

RT: 11.888 min Scan# 16

Delta R.T. -0.000 min

Lab File: VN084848.D

Acq: 14 Nov 2024 13:48

Instrument :

MSVOA_N

ClientSampleId :

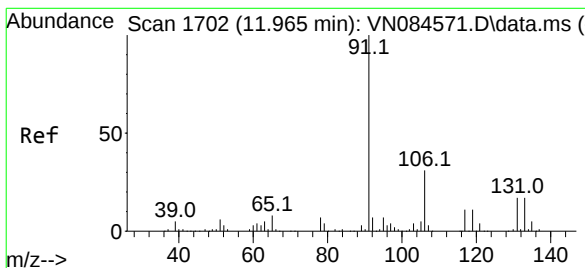
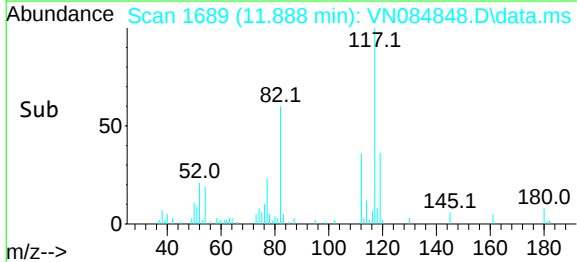
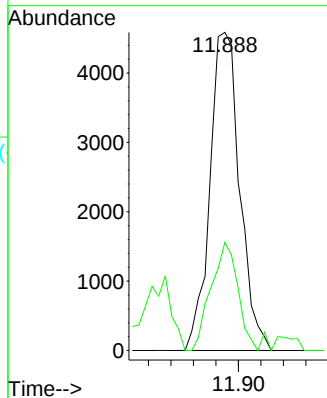
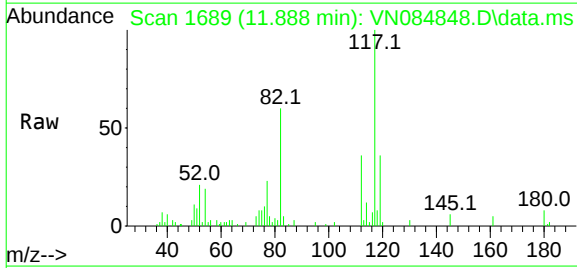
241113075-01-VOA

Tgt Ion:112 Resp: 8433

Ion Ratio Lower Upper

112 100

114 29.6 27.0 40.6



#67

Ethyl Benzene

Concen: 9.611 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN084848.D

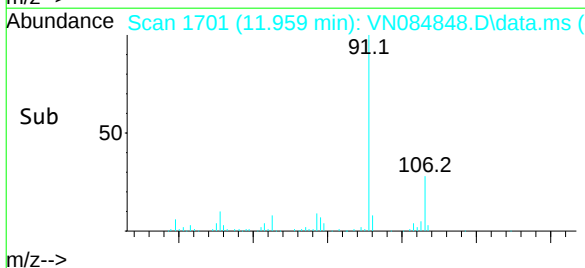
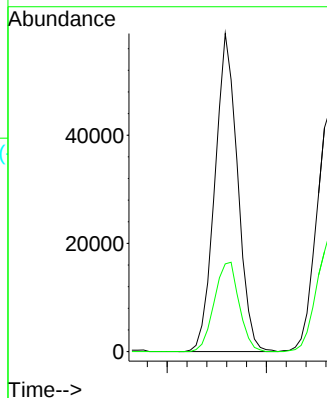
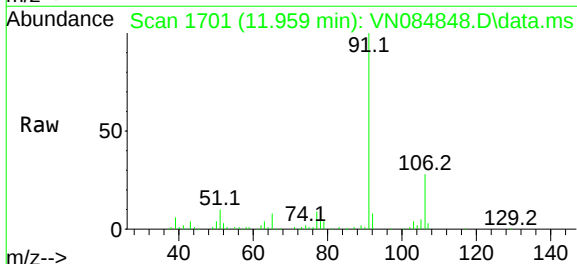
Acq: 14 Nov 2024 13:48

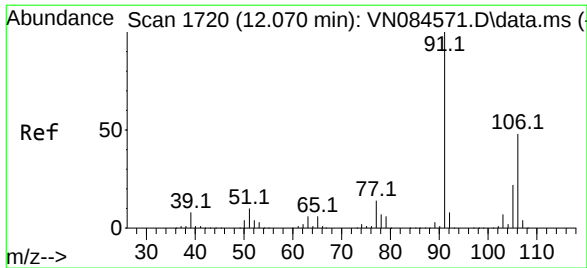
Tgt Ion: 91 Resp: 93482

Ion Ratio Lower Upper

91 100

106 27.6 24.5 36.7





#68

m/p-Xylenes

Concen: 11.263 ug/l

RT: 12.064 min Scan# 1719

Delta R.T. -0.006 min

Lab File: VN084848.D

Acq: 14 Nov 2024 13:48

Instrument :

MSVOA_N

ClientSampleId :

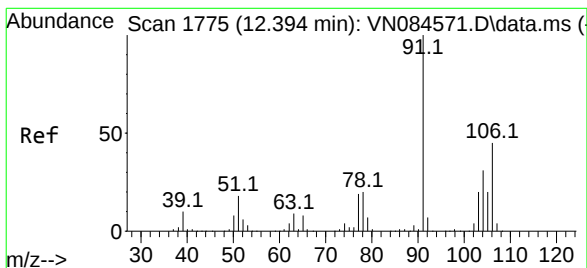
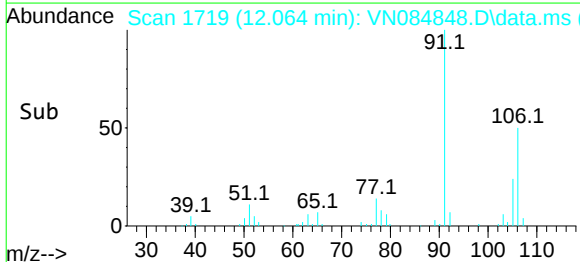
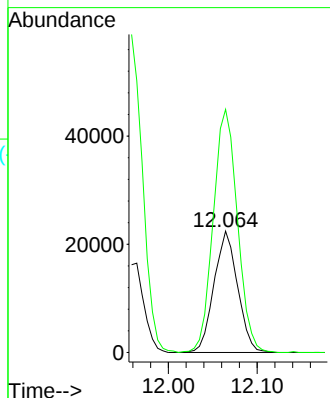
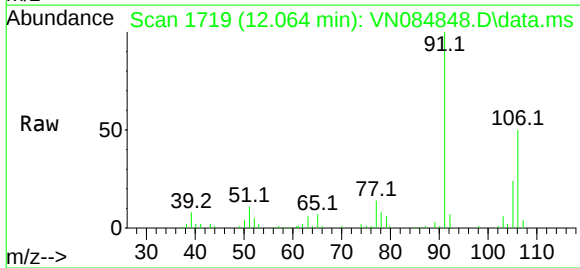
241113075-01-VOA

Tgt Ion:106 Resp: 41473

Ion Ratio Lower Upper

106 100

91 205.3 167.1 250.7



#69

o-Xylene

Concen: 6.093 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VN084848.D

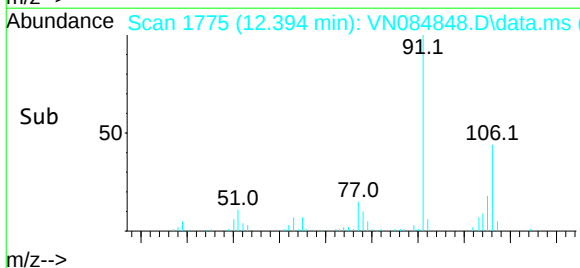
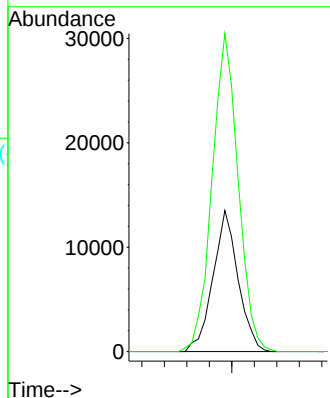
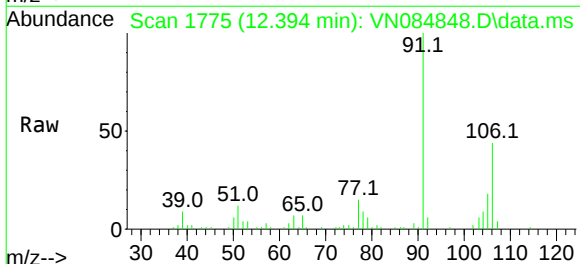
Acq: 14 Nov 2024 13:48

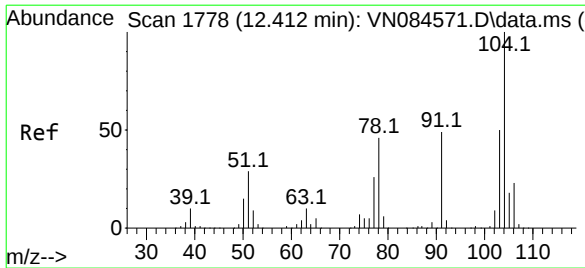
Tgt Ion:106 Resp: 20990

Ion Ratio Lower Upper

106 100

91 233.5 110.2 330.6





#70

Styrene

Concen: 1.306 ug/l

RT: 12.411 min Scan# 17

Delta R.T. -0.001 min

Lab File: VN084848.D

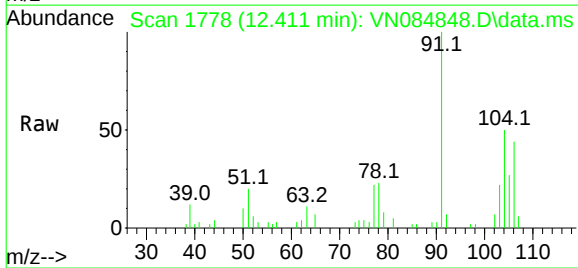
Acq: 14 Nov 2024 13:48

Instrument :

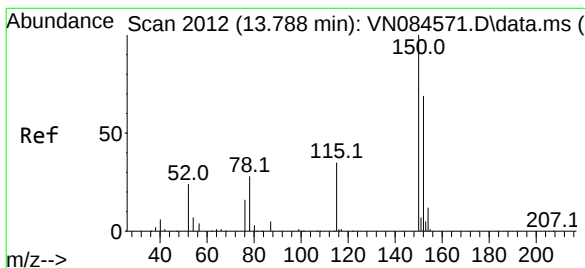
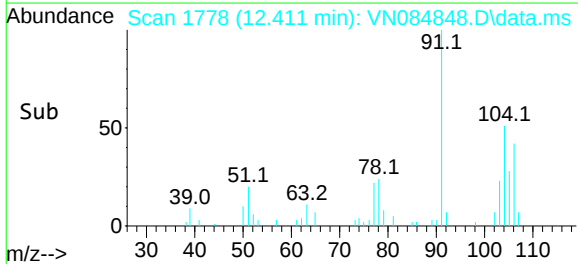
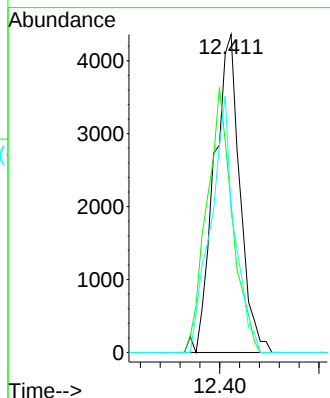
MSVOA_N

ClientSampleId :

241113075-01-VOA



Tgt Ion:	104	Resp:	7848
Ion Ratio	Lower	Upper	
104	100		
78	83.1	42.7	64.1#
103	74.0	43.6	65.4#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

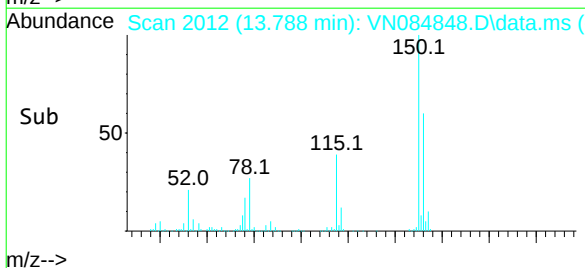
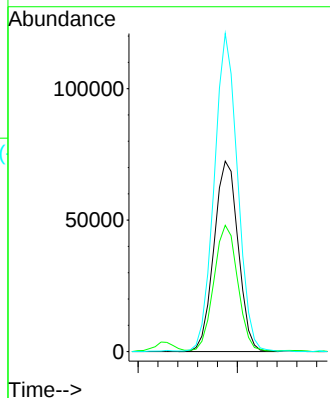
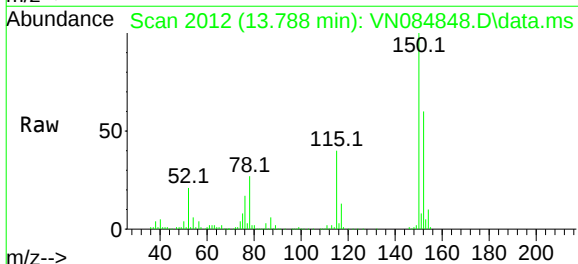
RT: 13.788 min Scan# 2012

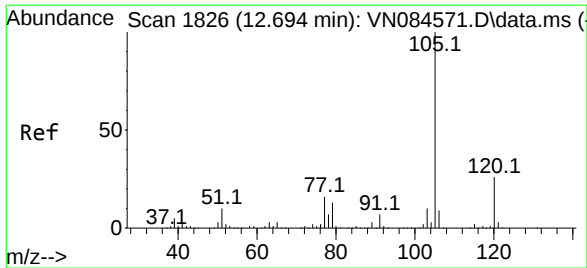
Delta R.T. -0.000 min

Lab File: VN084848.D

Acq: 14 Nov 2024 13:48

Tgt Ion:	152	Resp:	122872
Ion Ratio	Lower	Upper	
152	100		
115	64.8	31.3	93.9
150	161.3	0.0	349.8





#73

Isopropylbenzene

Concen: 1.121 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. -0.000 min

Lab File: VN084848.D

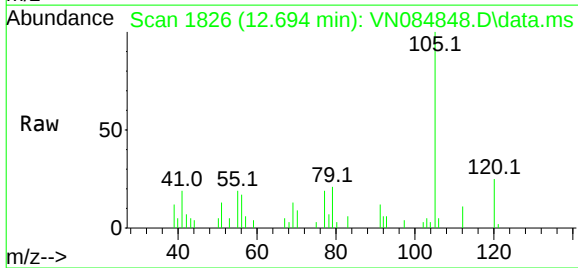
Acq: 14 Nov 2024 13:48

Instrument :

MSVOA_N

ClientSampleId :

241113075-01-VOA

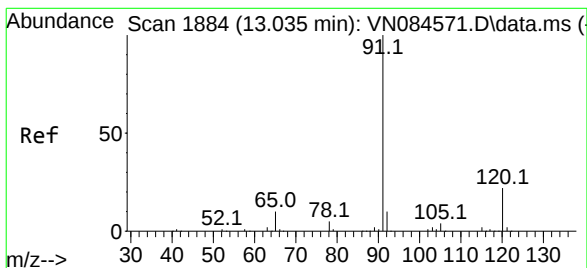
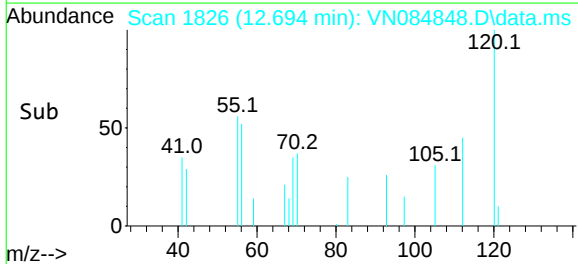
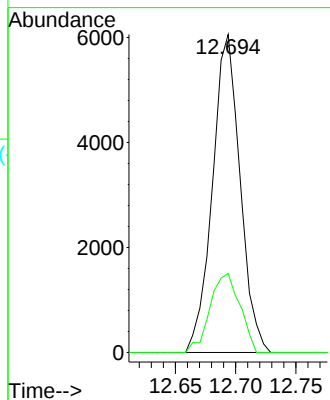


Tgt Ion: 105 Resp: 9651

Ion Ratio Lower Upper

105 100

120 26.9 12.9 38.7



#78

n-propylbenzene

Concen: 0.938 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. -0.000 min

Lab File: VN084848.D

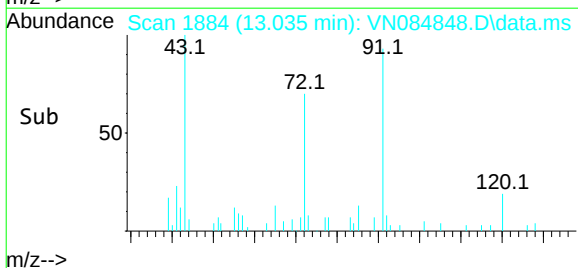
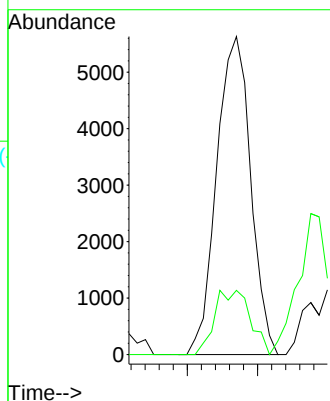
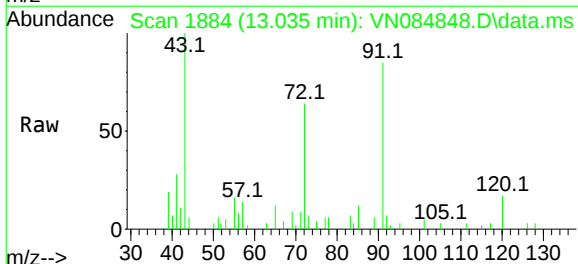
Acq: 14 Nov 2024 13:48

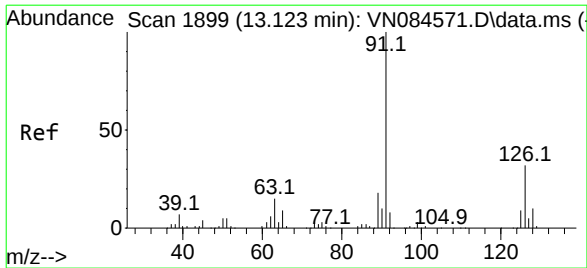
Tgt Ion: 91 Resp: 9460

Ion Ratio Lower Upper

91 100

120 21.2 10.8 32.4





#79

2-Chlorotoluene

Concen: 0.842 ug/l

RT: 13.123 min Scan# 18

Delta R.T. -0.000 min

Lab File: VN084848.D

Acq: 14 Nov 2024 13:48

Instrument :

MSVOA_N

ClientSampleId :

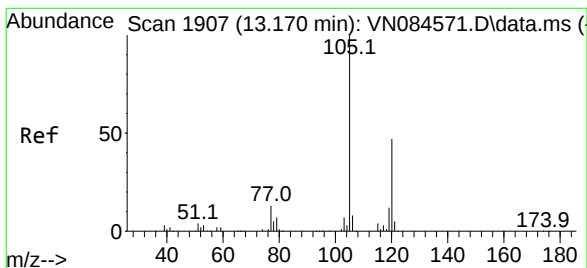
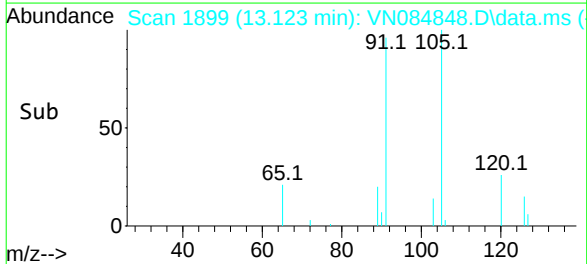
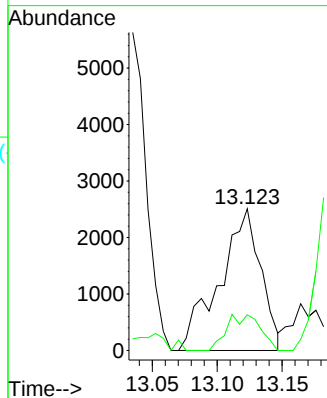
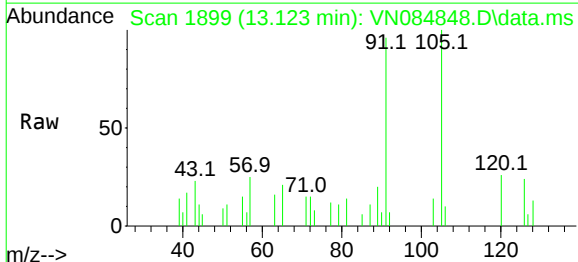
241113075-01-VOA

Tgt Ion: 91 Resp: 5550

Ion Ratio Lower Upper

91 100

126 20.5 15.7 47.1



#80

1,3,5-Trimethylbenzene

Concen: 1.186 ug/l

RT: 13.164 min Scan# 1906

Delta R.T. -0.006 min

Lab File: VN084848.D

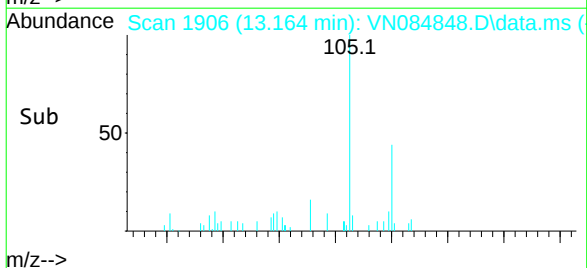
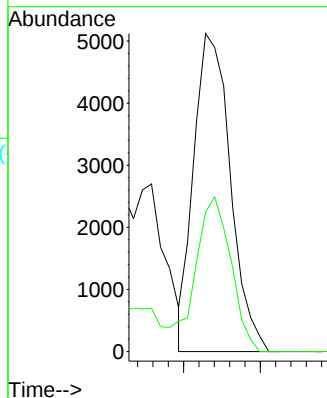
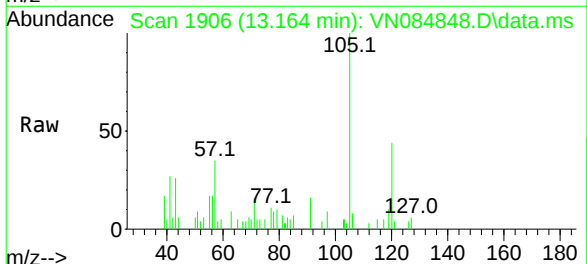
Acq: 14 Nov 2024 13:48

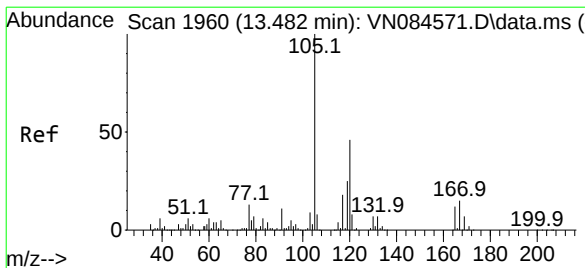
Tgt Ion: 105 Resp: 8465

Ion Ratio Lower Upper

105 100

120 47.0 23.7 71.1





#84

1,2,4-Trimethylbenzene

Concen: 3.628 ug/l

RT: 13.482 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN084848.D

Acq: 14 Nov 2024 13:48

Instrument :

MSVOA_N

ClientSampleId :

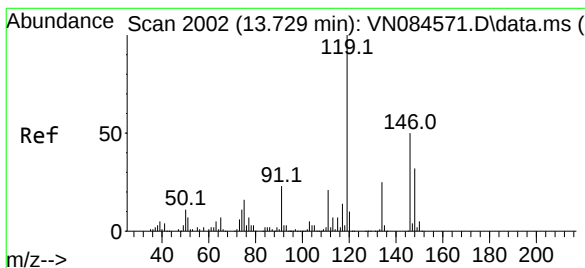
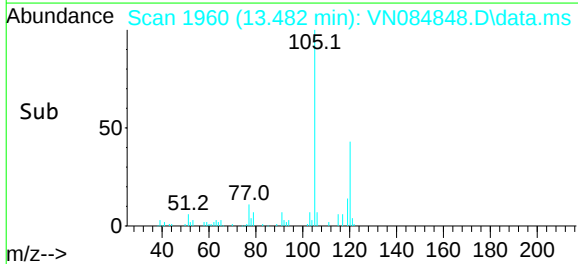
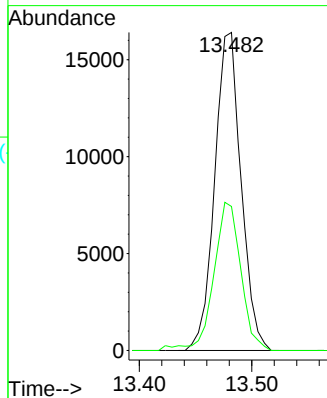
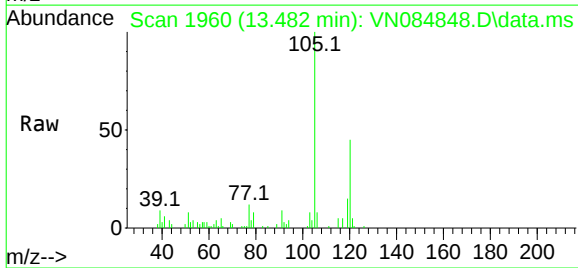
241113075-01-VOA

Tgt Ion:105 Resp: 26726

Ion Ratio Lower Upper

105 100

120 47.9 22.3 66.8



#86

p-Isopropyltoluene

Concen: 9.617 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN084848.D

Acq: 14 Nov 2024 13:48

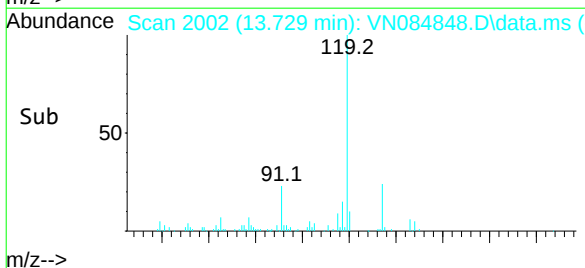
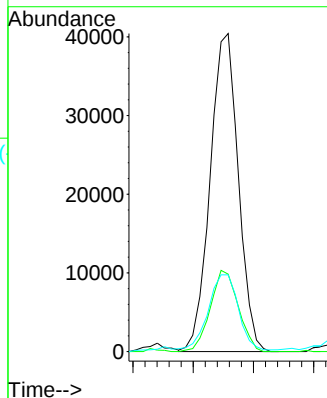
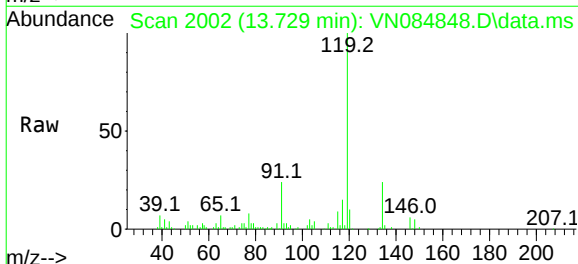
Tgt Ion:119 Resp: 65804

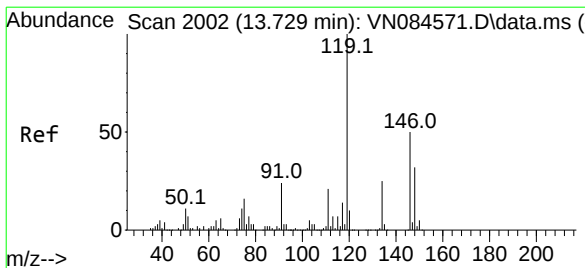
Ion Ratio Lower Upper

119 100

134 25.3 12.6 37.8

91 24.9 12.4 37.2





#87

1,3-Dichlorobenzene

Concen: 0.811 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN084848.D

Acq: 14 Nov 2024 13:48

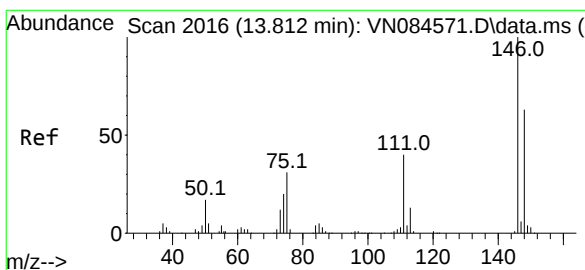
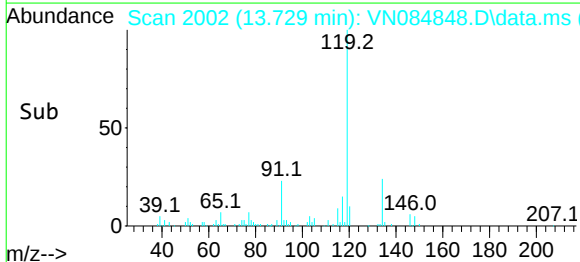
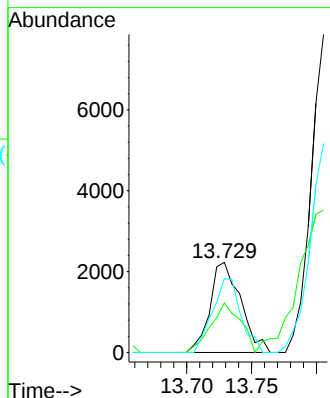
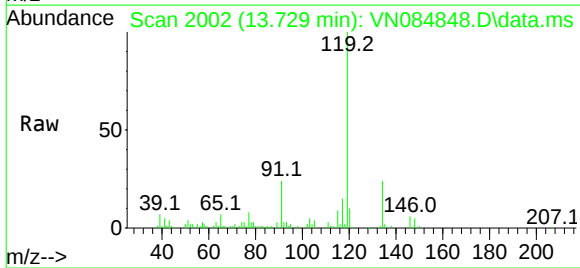
Instrument :

MSVOA_N

ClientSampleId :

241113075-01-VOA

Tgt Ion:	146	Resp:	3664
Ion Ratio	Lower	Upper	
146	100		
111	53.4	21.8	65.3
148	76.3	31.9	95.7



#88

1,4-Dichlorobenzene

Concen: 2.396 ug/l

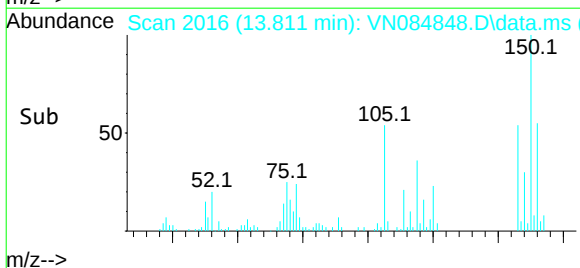
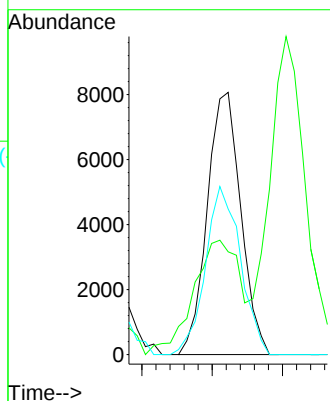
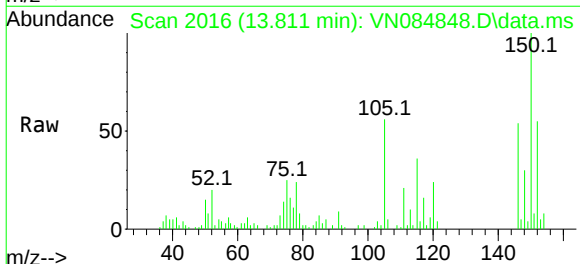
RT: 13.811 min Scan# 2016

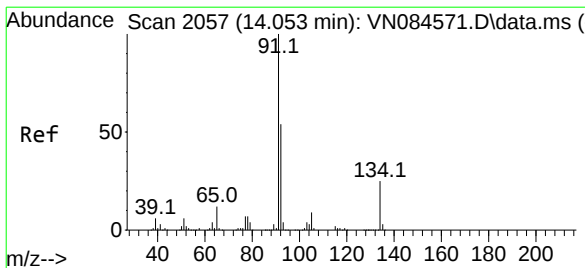
Delta R.T. -0.001 min

Lab File: VN084848.D

Acq: 14 Nov 2024 13:48

Tgt Ion:	146	Resp:	13406
Ion Ratio	Lower	Upper	
146	100		
111	59.4	21.2	63.6
148	66.9	31.9	95.9





#89

n-Butylbenzene

Concen: 0.971 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN084848.D

Acq: 14 Nov 2024 13:48

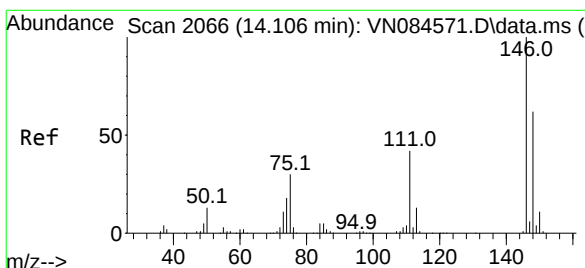
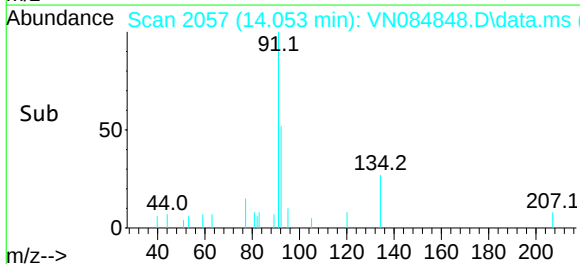
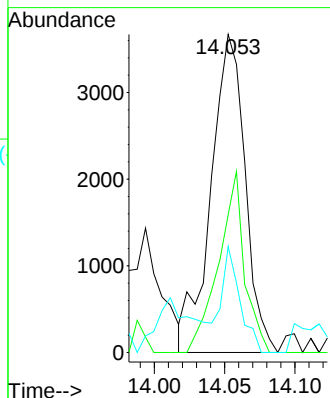
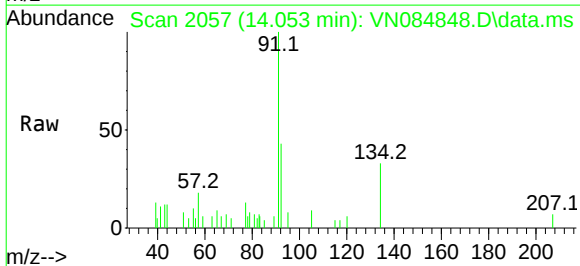
Instrument :

MSVOA_N

ClientSampleId :

241113075-01-VOA

Tgt Ion: 91	Resp: 6216
Ion Ratio	Lower Upper
91	100
92	43.0 26.6 79.7
134	17.7 12.3 36.9



#91

1,2-Dichlorobenzene

Concen: 0.759 ug/l

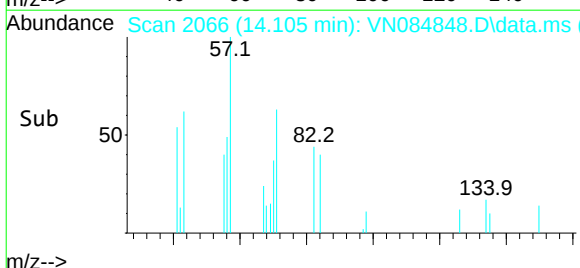
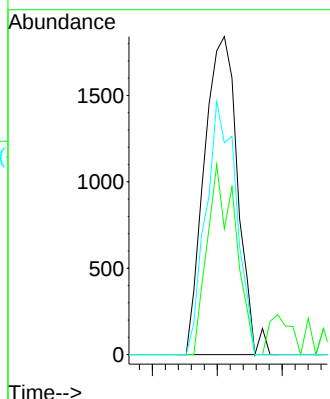
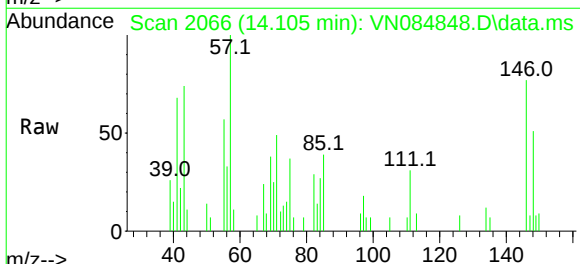
RT: 14.105 min Scan# 2066

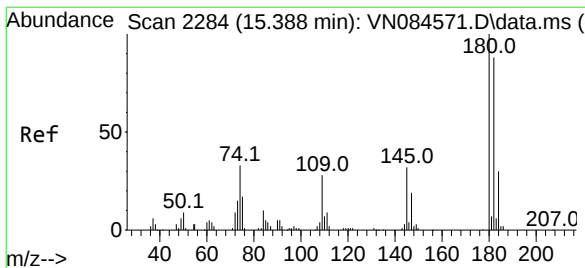
Delta R.T. -0.000 min

Lab File: VN084848.D

Acq: 14 Nov 2024 13:48

Tgt Ion: 146	Resp: 3293
Ion Ratio	Lower Upper
146	100
111	50.1 22.0 66.0
148	72.0 32.1 96.3





#93

1,2,4-Trichlorobenzene

Concen: 1.799 ug/l

RT: 15.382 min Scan# 2284

Delta R.T. -0.006 min

Lab File: VN084848.D

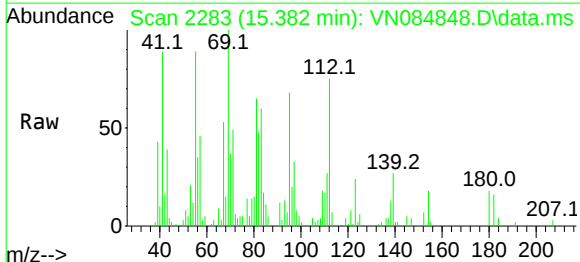
Acq: 14 Nov 2024 13:48

Instrument :

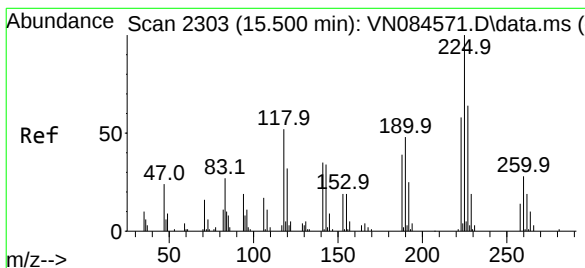
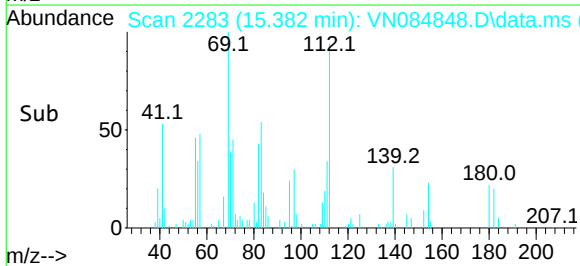
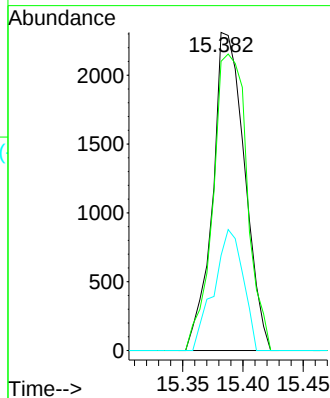
MSVOA_N

ClientSampleId :

241113075-01-VOA



Tgt Ion:	180	Resp:	4275
Ion Ratio	Lower	Upper	
180	100		
182	99.3	47.0	141.0
145	34.7	16.4	49.4



#94

Hexachlorobutadiene

Concen: 1.193 ug/l

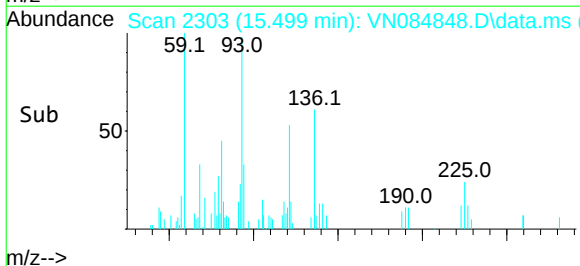
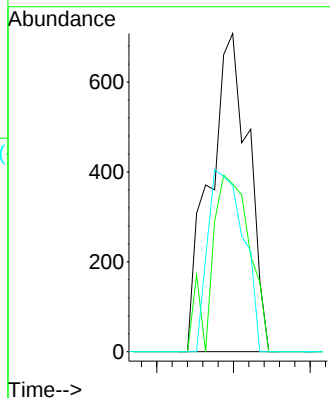
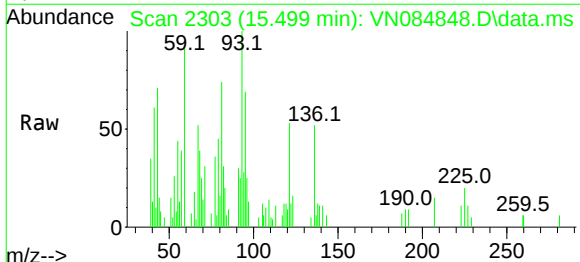
RT: 15.499 min Scan# 2303

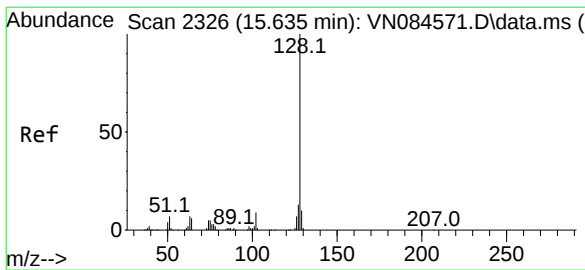
Delta R.T. -0.001 min

Lab File: VN084848.D

Acq: 14 Nov 2024 13:48

Tgt Ion:	225	Resp:	1245
Ion Ratio	Lower	Upper	
225	100		
223	55.1	32.4	97.2
227	52.6	32.4	97.0





#95

Naphthalene

Concen: 21.298 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. -0.000 min

Lab File: VN084848.D

Acq: 14 Nov 2024 13:48

Instrument :

MSVOA_N

ClientSampleId :

241113075-01-VOA

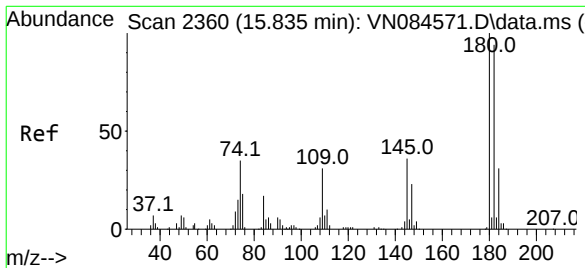
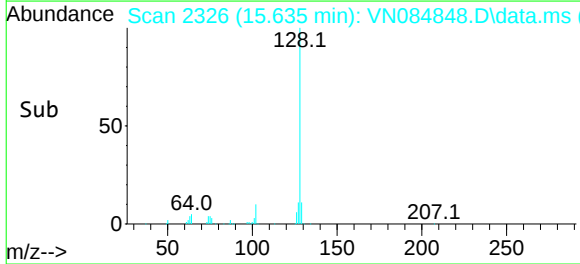
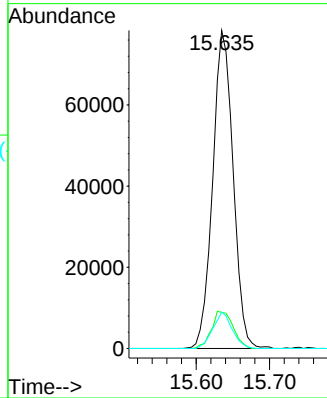
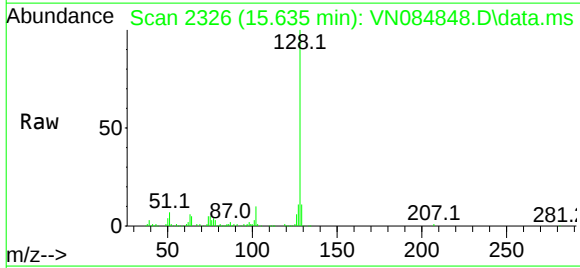
Tgt Ion:128 Resp: 151473

Ion Ratio Lower Upper

128 100

127 12.4 10.5 15.7

129 10.8 8.7 13.1



#96

1,2,3-Trichlorobenzene

Concen: 1.882 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN084848.D

Acq: 14 Nov 2024 13:48

Tgt Ion:180 Resp: 4341

Ion Ratio Lower Upper

180 100

182 95.2 48.2 144.6

145 34.8 17.3 51.9

