

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031820\
 Data File : VN060597.D
 Acq On : 18 Mar 2020 17:11
 Operator : JC/MD
 Sample : L1917-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MH-F

Quant Time: Mar 19 05:01:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	196164	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	323128	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	294548	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	132956	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	125029	46.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.86%	
35) Dibromofluoromethane	7.56	113	94813	48.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.06%	
50) Toluene-d8	10.08	98	397787	49.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.68%	
62) 4-Bromofluorobenzene	12.40	95	145442	49.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.46%	

Target Compounds

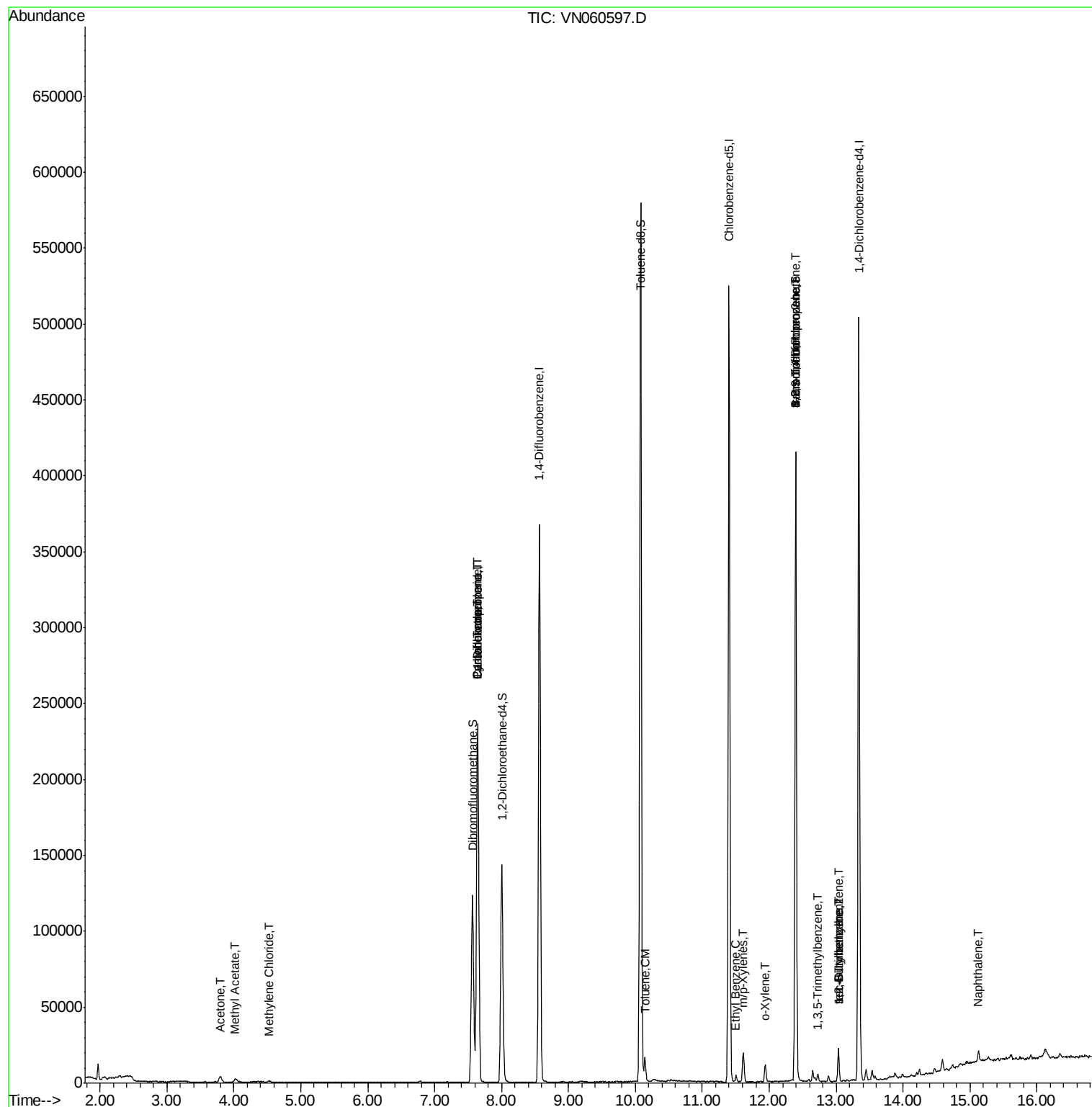
						Qvalue
16) Acetone	3.79	43	3732	3.912	ug/l	95
18) Methyl Acetate	4.02	43	893	0.333	ug/l #	54
20) Methylene Chloride	4.53	84	780	0.332	ug/l #	63
31) Cyclohexane	7.64	56	4136	0.954	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15072	4.817	ug/l #	49
38) Carbon Tetrachloride	7.64	117	19117	6.817	ug/l #	15
52) Toluene	10.14	92	7088	1.243	ug/l	99
67) Ethyl Benzene	11.50	91	4076	0.375	ug/l	99
68) m/p-Xylenes	11.61	106	6184	1.533	ug/l	95
69) o-Xylene	11.94	106	3133	0.813	ug/l	95
71) Bromoform	12.40	173	430	1.917	ug/l #	1
76) 1,2,3-Trichloropropane	12.39	75	74184	25.858	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2952	0.349	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.39	75	74184	66.411	ug/l #	13
83) tert-Butylbenzene	13.04	119	1595	0.227	ug/l #	74
84) 1,2,4-Trimethylbenzene	13.03	105	12861	1.535	ug/l	99
85) sec-Butylbenzene	13.03	105	12861	1.363	ug/l #	58
95) Naphthalene	15.13	128	6491	0.867	ug/l	97

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060597.D

Acq: 18 Mar 2020 17:11

Instrument :

MSVOA_N

ClientSampleId :

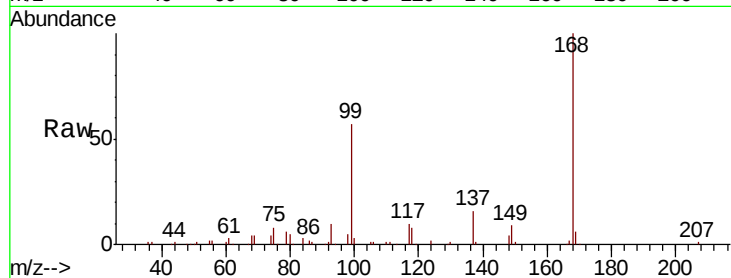
MH-F

Tot Ion:168 Resp: 196164

Ion Ratio Lower Upper

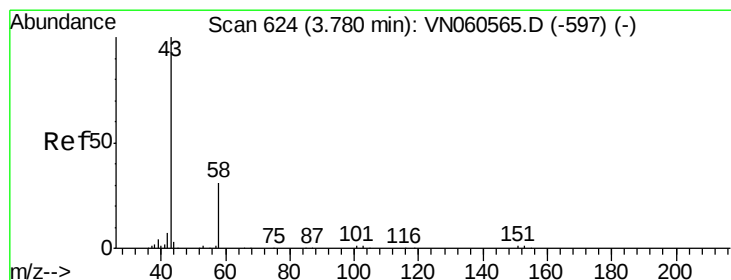
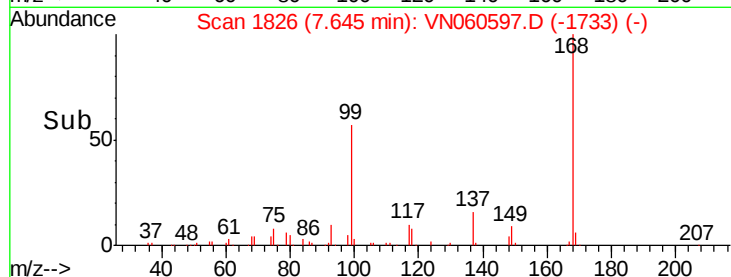
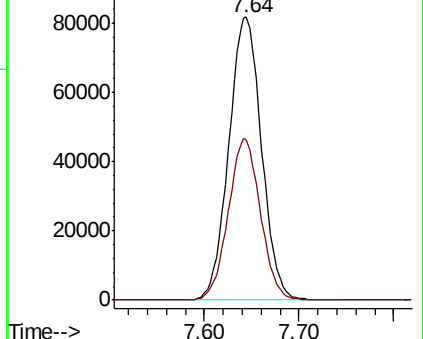
168 100

99 56.6 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 3.912 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060597.D

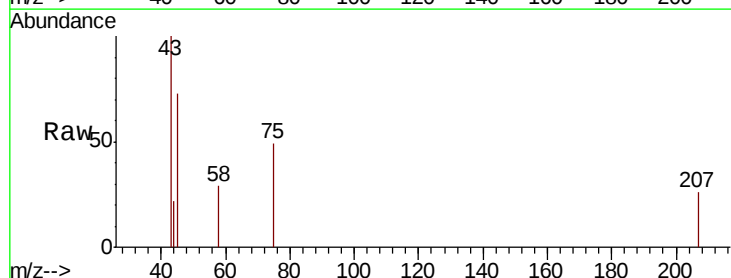
Acq: 18 Mar 2020 17:11

Tgt Ion: 43 Resp: 3732

Ion Ratio Lower Upper

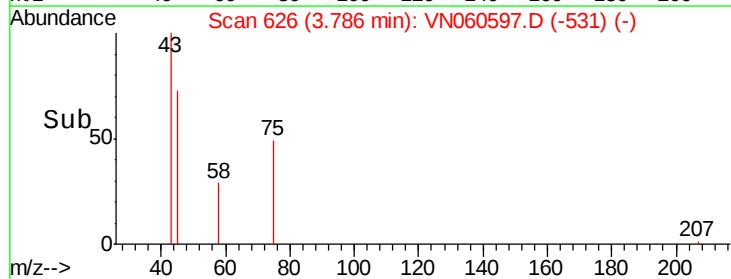
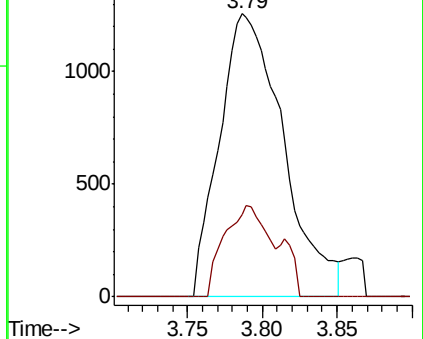
43 100

58 28.9 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

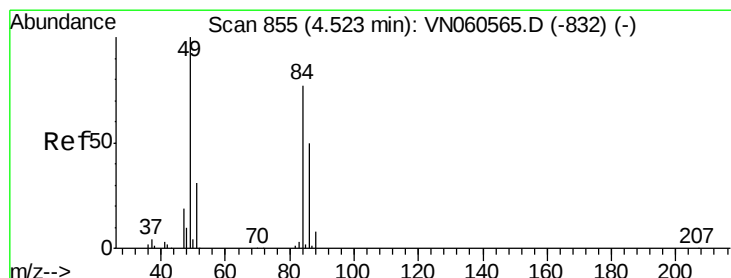
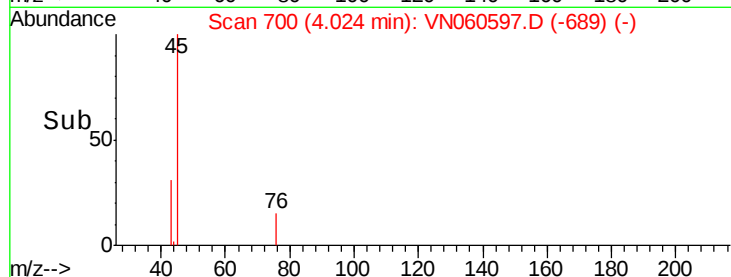
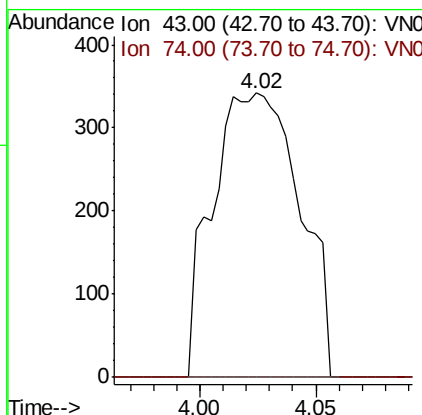
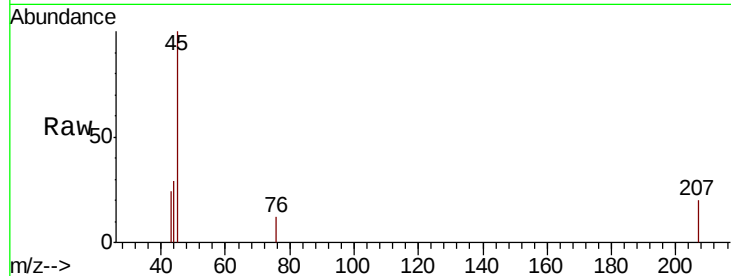




#18
Methyl Acetate
Concen: 0.333 ug/l
RT: 4.02 min Scan# 700
Delta R.T. -0.26 min
Lab File: VN060597.D
Acq: 18 Mar 2020 17:11

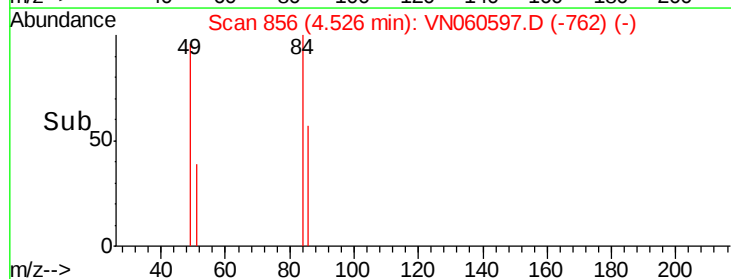
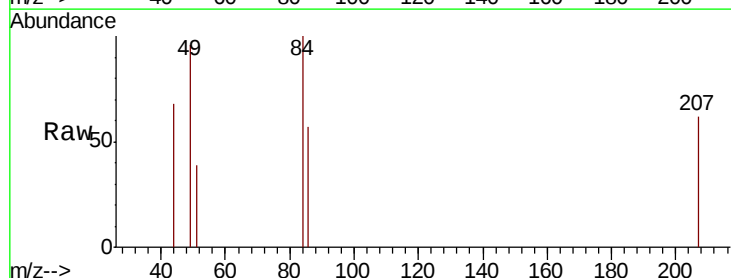
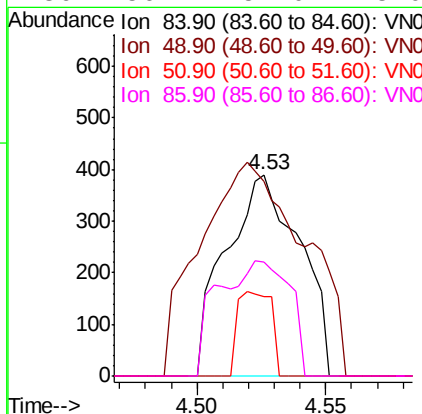
Instrument :
MSVOA_N
ClientSampled :
MH-F

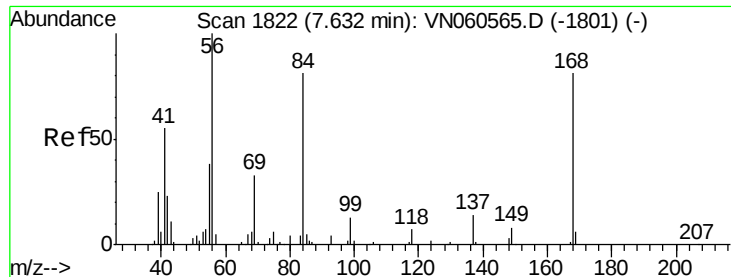
Tot Ion: 43 Resp: 893
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 0.332 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060597.D
Acq: 18 Mar 2020 17:11

Tgt Ion: 84 Resp: 780
Ion Ratio Lower Upper
84 100
49 56.7 103.3 154.9#
51 39.5 31.6 47.4
86 56.7 52.0 78.0

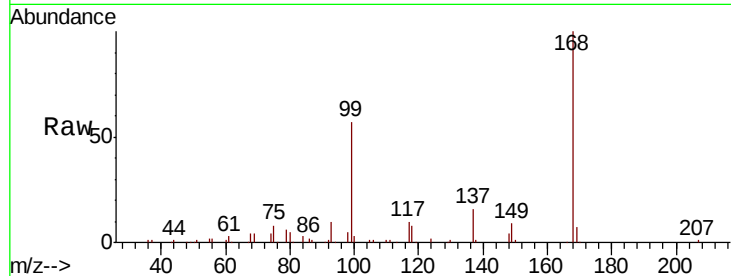




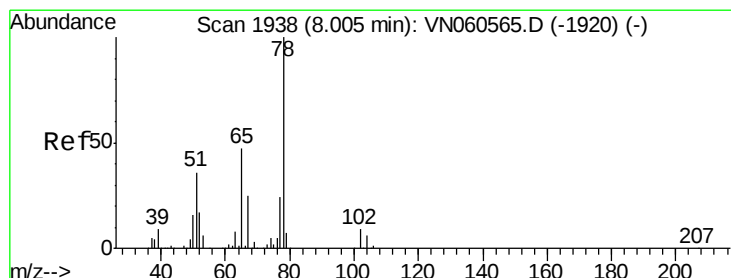
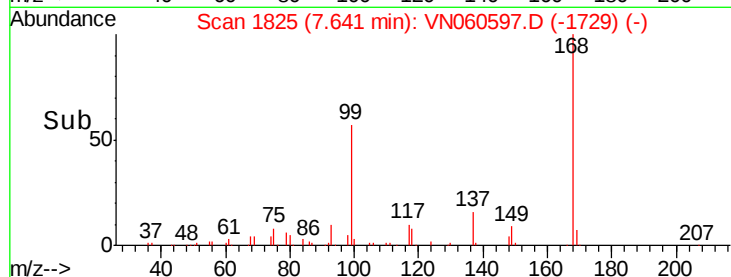
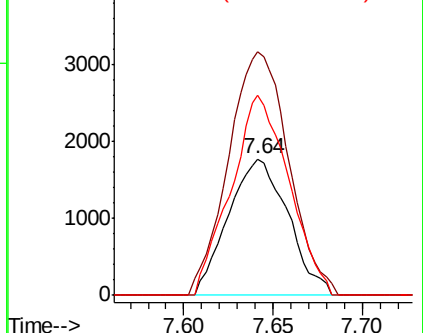
#31
Cyclohexane
Concen: 0.954 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN060597.D
Acq: 18 Mar 2020 17:11

Instrument :
MSVOA_N
ClientSampled :
MH-F

Tot Ion: 56 Resp: 4136
Ion Ratio Lower Upper
56 100
69 178.6 26.6 40.0#
84 146.5 64.3 96.5#

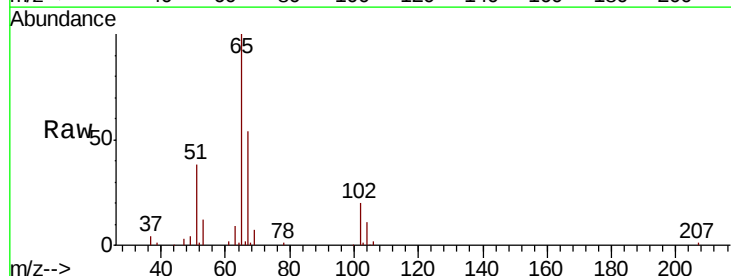


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

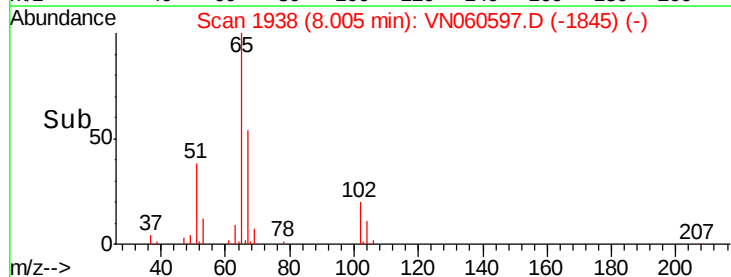
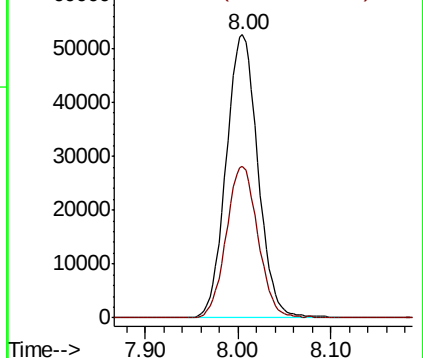


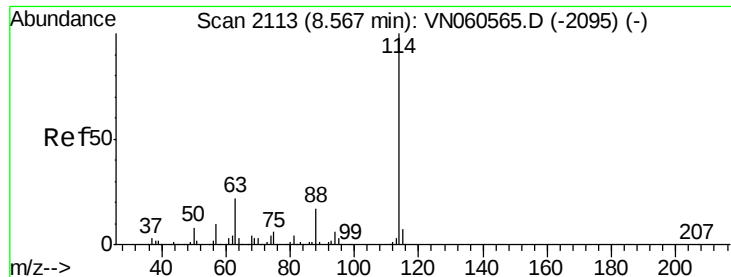
#33
1,2-Dichloroethane-d4
Concen: 46.429 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN060597.D
Acq: 18 Mar 2020 17:11

Tgt Ion: 65 Resp: 125029
Ion Ratio Lower Upper
65 100
67 53.4 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

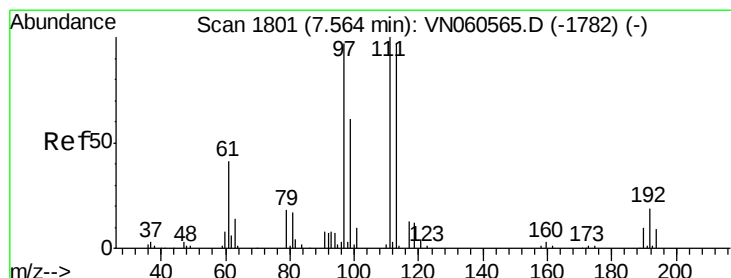
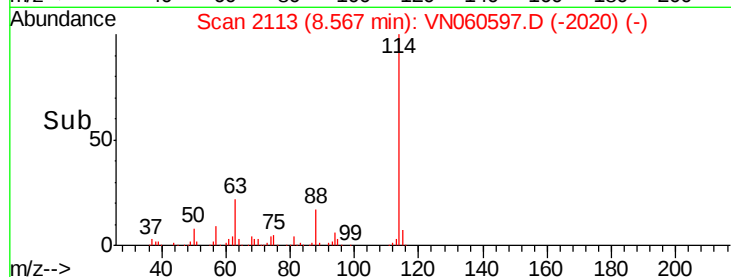
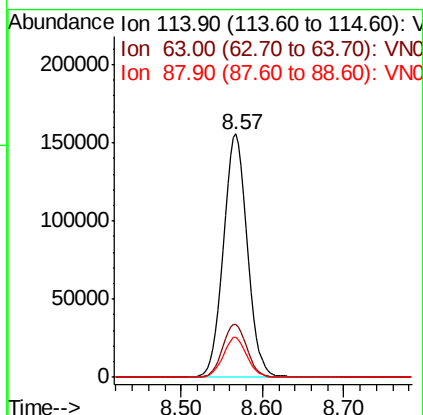
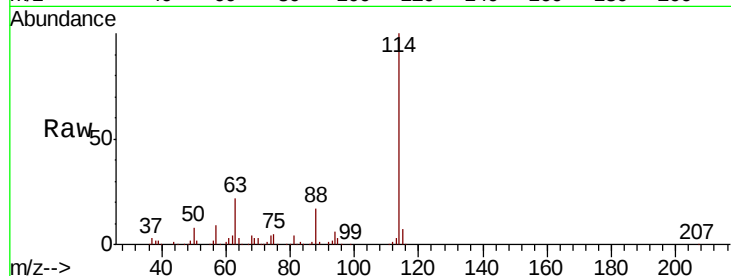




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060597.D
 Acq: 18 Mar 2020 17:11

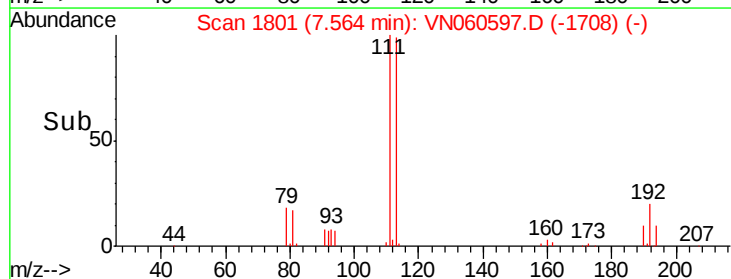
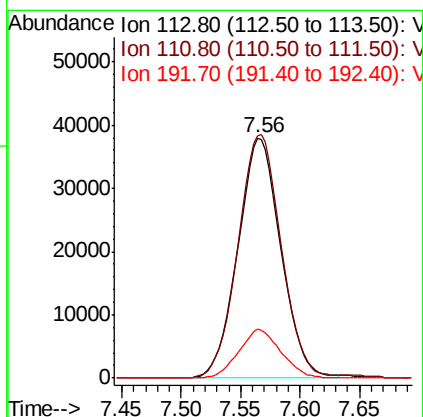
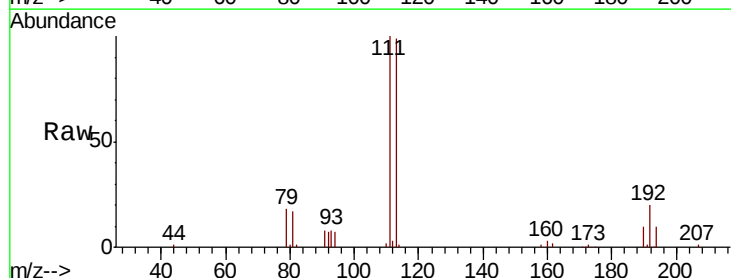
Instrument :
 MSVOA_N
 ClientSampleId :
 MH-F

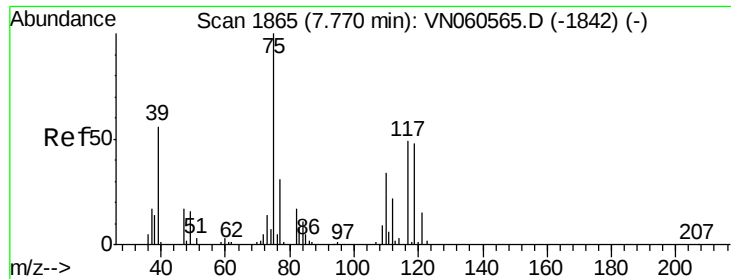
Tot Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	43.8
88	16.6	0.0	33.0



#35
 Dibromofluoromethane
 Concen: 48.526 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. 0.00 min
 Lab File: VN060597.D
 Acq: 18 Mar 2020 17:11

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.9	124.3
192	19.9	15.8	23.8

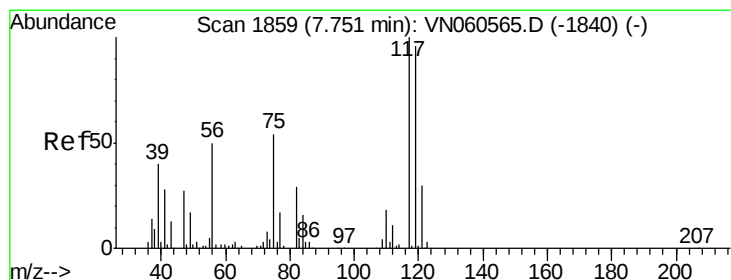
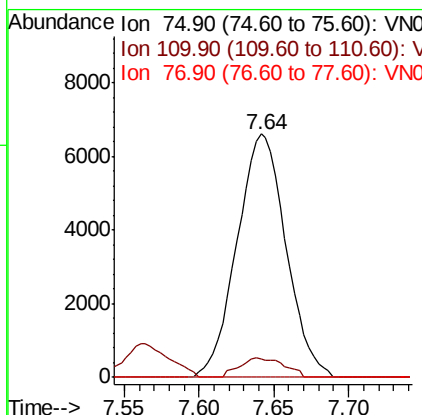
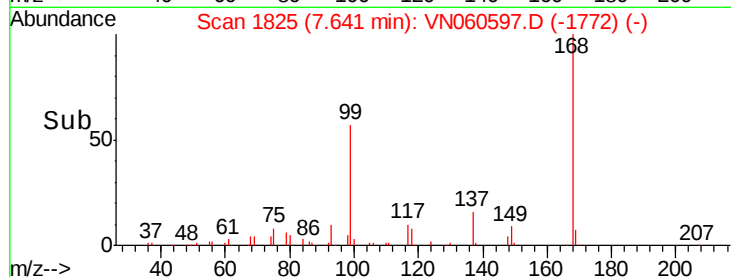
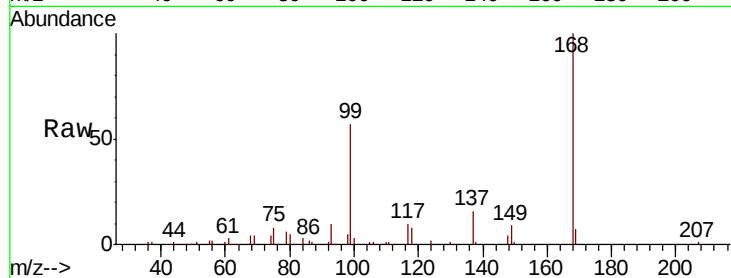




#36
 1,1-Dichloropropene
 Concen: 4.817 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060597.D
 Acq: 18 Mar 2020 17:11

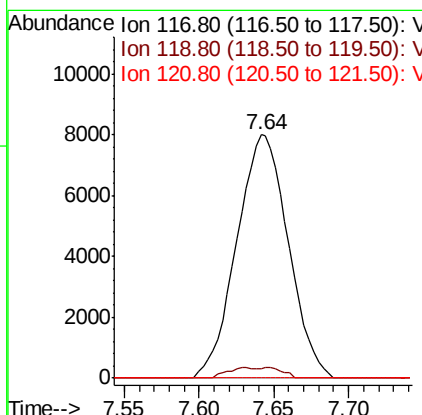
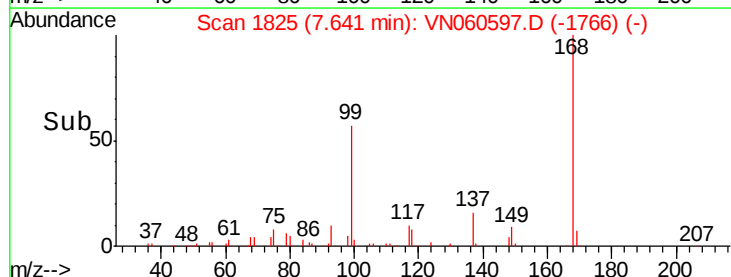
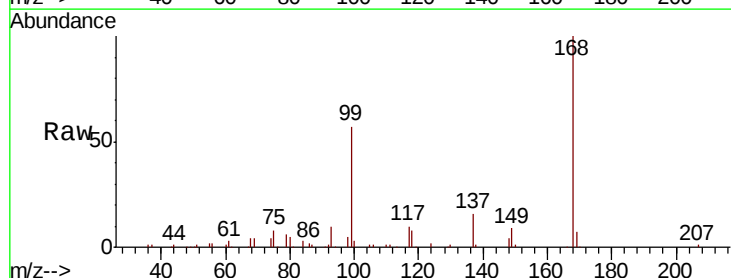
Instrument :
 MSVOA_N
 ClientSampled :
 MH-F

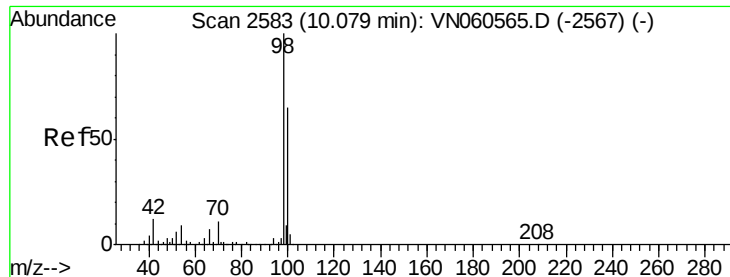
Tot Ion: 75 Resp: 15072
 Ion Ratio Lower Upper
 75 100
 110 7.2 16.9 50.6#
 77 0.0 24.6 36.8#



#38
 Carbon Tetrachloride
 Concen: 6.817 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN060597.D
 Acq: 18 Mar 2020 17:11

Tgt Ion: 117 Resp: 19117
 Ion Ratio Lower Upper
 117 100
 119 3.8 76.2 114.2#
 121 0.0 23.7 35.5#





#50

Toluene-d8

Concen: 49.843 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060597.D

Acq: 18 Mar 2020 17:11

Instrument :

MSVOA_N

ClientSampleId :

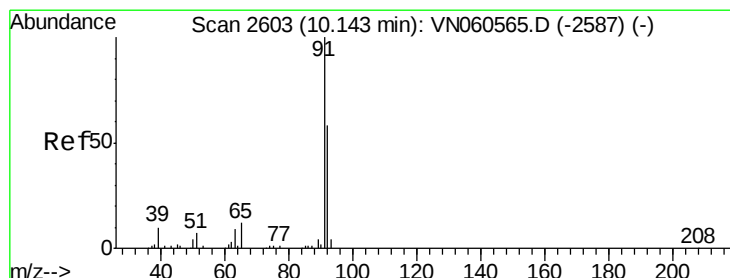
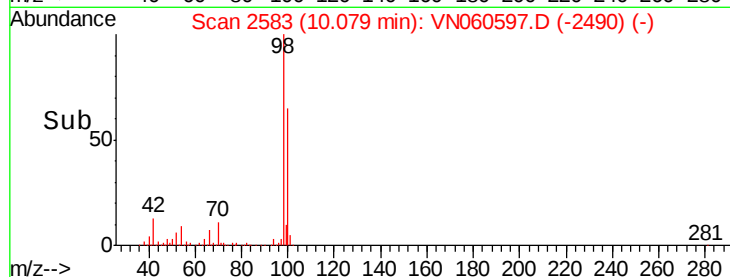
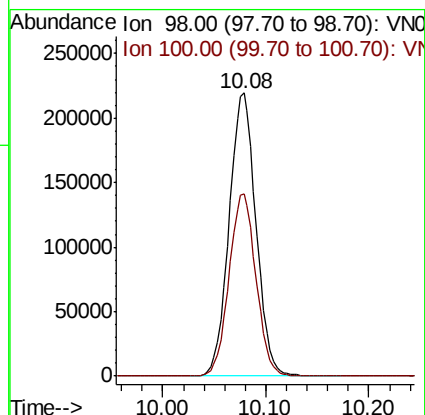
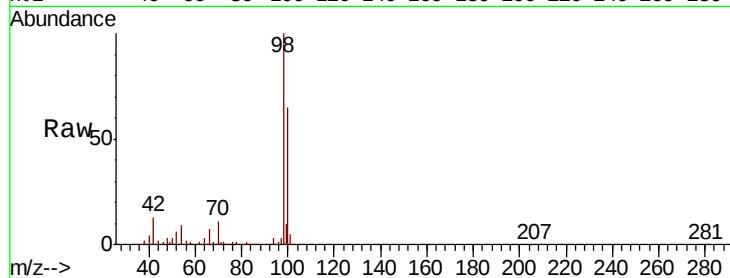
MH-F

Tot Ion: 98 Resp: 397787

Ion Ratio Lower Upper

98 100

100 64.6 51.8 77.8



#52

Toluene

Concen: 1.243 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. 0.00 min

Lab File: VN060597.D

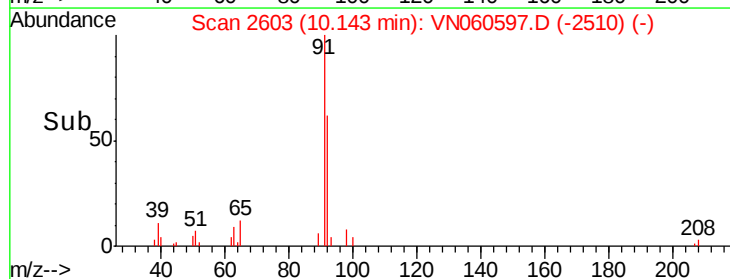
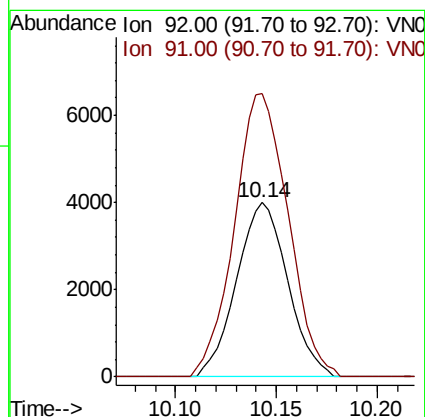
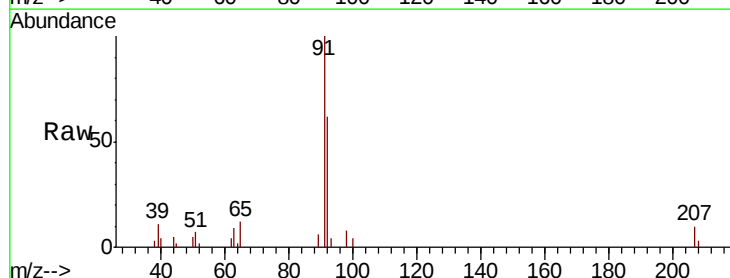
Acq: 18 Mar 2020 17:11

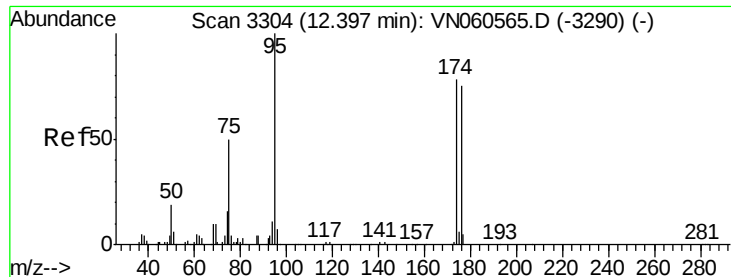
Tgt Ion: 92 Resp: 7088

Ion Ratio Lower Upper

92 100

91 170.4 137.6 206.4





#62

4-Bromofluorobenzene

Concen: 49.727 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060597.D

Acq: 18 Mar 2020 17:11

Instrument :

MSVOA_N

ClientSampleId :

MH-F

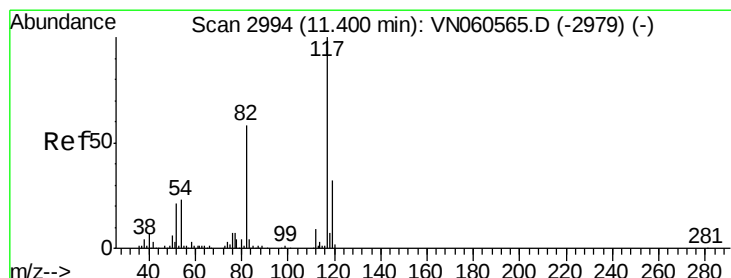
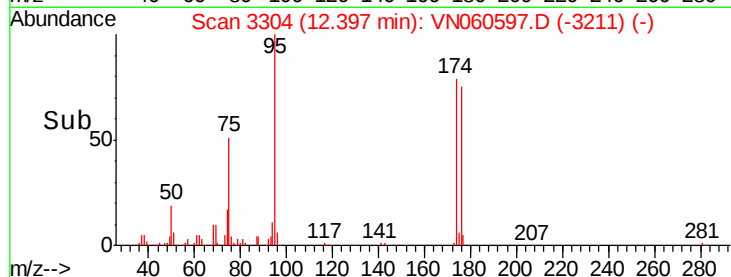
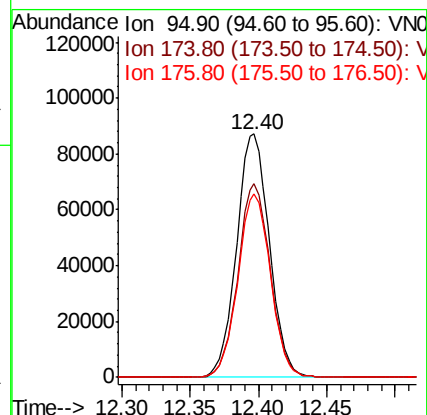
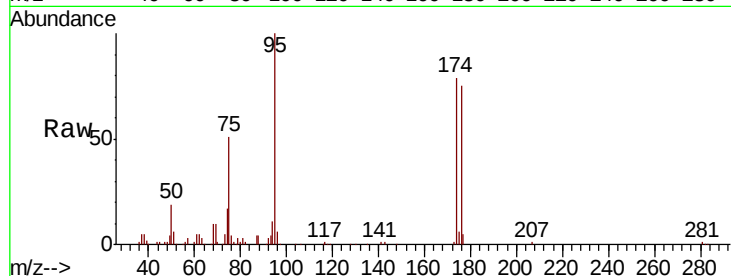
Tot Ion: 95 Resp: 145442

Ion Ratio Lower Upper

95 100

174 78.4 0.0 157.6

176 75.1 0.0 150.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060597.D

Acq: 18 Mar 2020 17:11

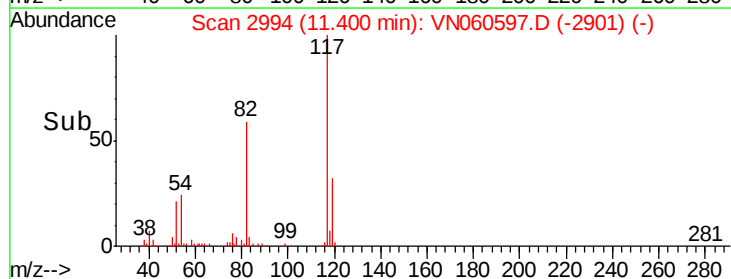
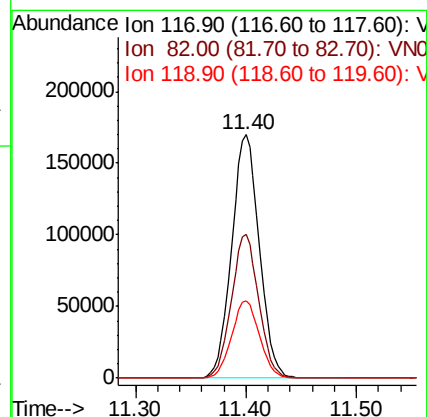
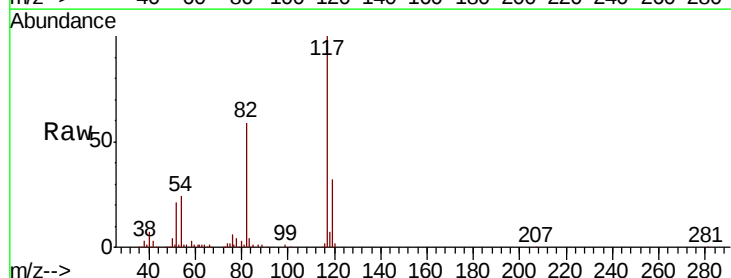
Tgt Ion: 117 Resp: 294548

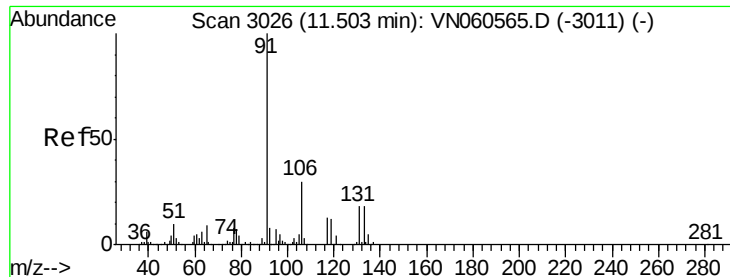
Ion Ratio Lower Upper

117 100

82 58.9 46.7 70.1

119 31.9 25.5 38.3

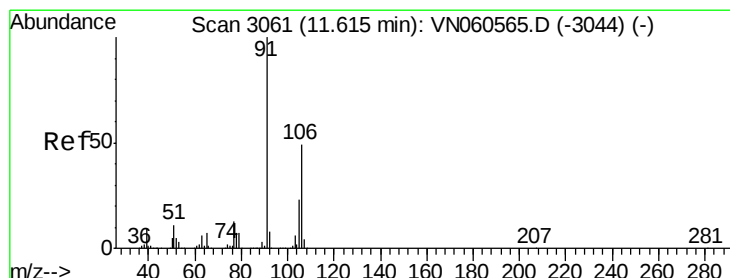
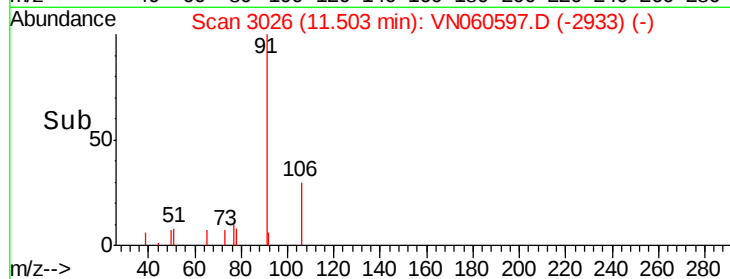
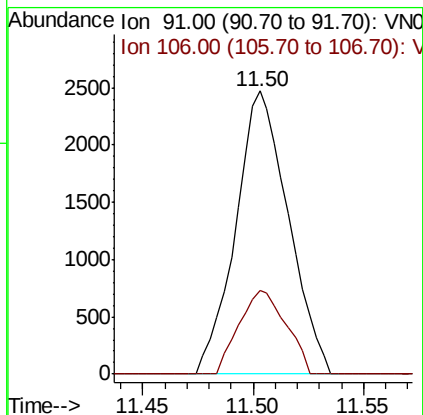
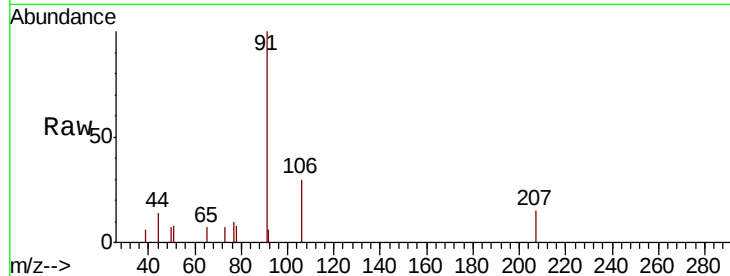




#67
Ethyl Benzene
Concen: 0.375 ug/l
RT: 11.50 min Scan# 3026
Delta R.T. 0.00 min
Lab File: VN060597.D
Acq: 18 Mar 2020 17:11

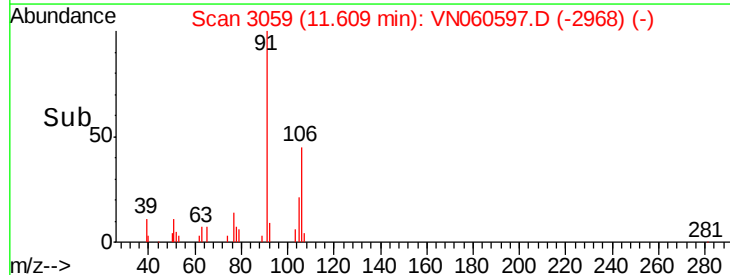
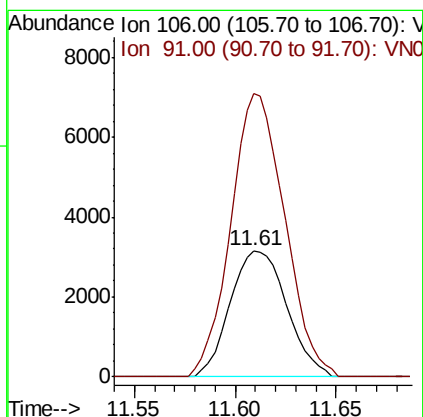
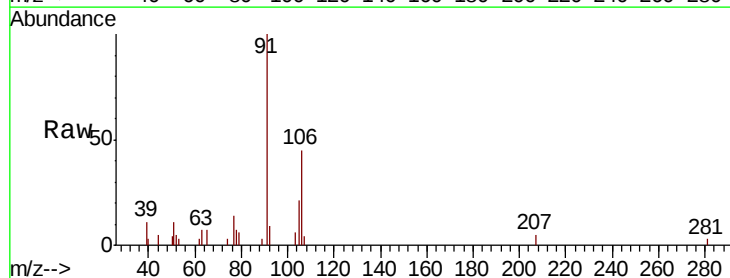
Instrument :
MSVOA_N
ClientSampled :
MH-F

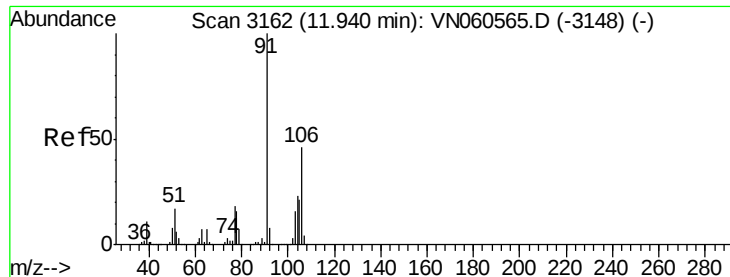
Tot Ion: 91 Resp: 4076
Ion Ratio Lower Upper
91 100
106 29.7 24.2 36.2



#68
m/p-Xylenes
Concen: 1.533 ug/l
RT: 11.61 min Scan# 3059
Delta R.T. -0.01 min
Lab File: VN060597.D
Acq: 18 Mar 2020 17:11

Tgt Ion: 106 Resp: 6184
Ion Ratio Lower Upper
106 100
91 213.8 165.0 247.4

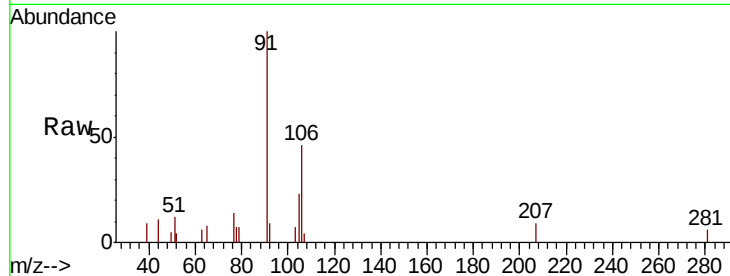




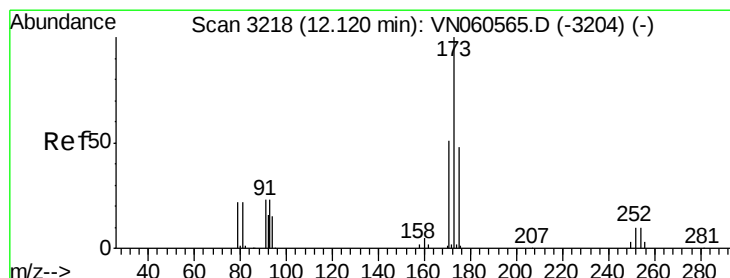
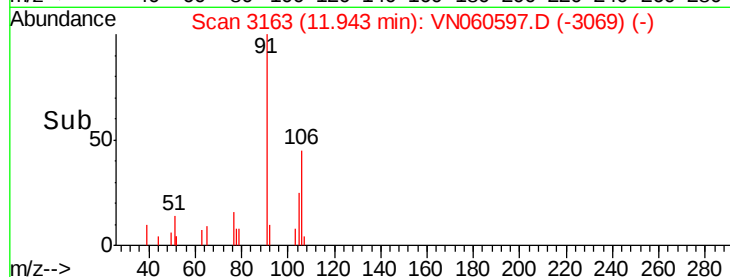
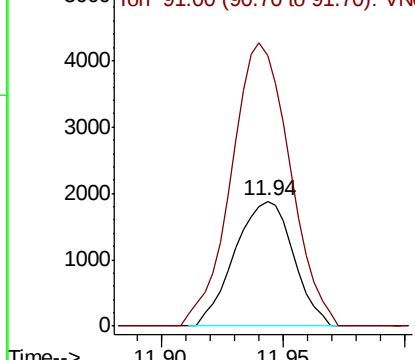
#69
o-Xylene
Concen: 0.813 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. 0.00 min
Lab File: VN060597.D
Acq: 18 Mar 2020 17:11

Instrument :
MSVOA_N
ClientSampled :
MH-F

Tot Ion:106 Resp: 3133
Ion Ratio Lower Upper
106 100
91 226.9 109.5 328.4

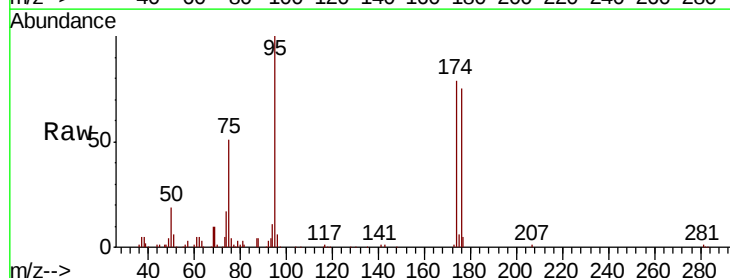


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

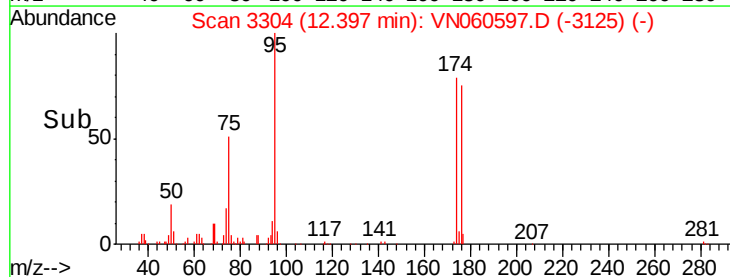
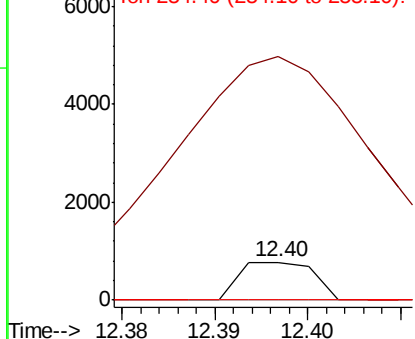


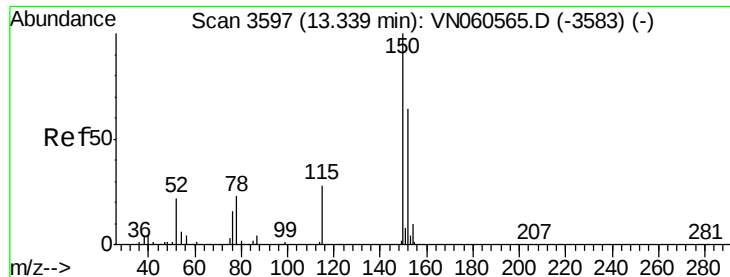
#71
Bromoform
Concen: 1.917 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.28 min
Lab File: VN060597.D
Acq: 18 Mar 2020 17:11

Tgt Ion:173 Resp: 430
Ion Ratio Lower Upper
173 100
175 1597.7 24.1 72.4#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060597.D

Acq: 18 Mar 2020 17:11

Instrument :

MSVOA_N

ClientSampleId :

MH-F

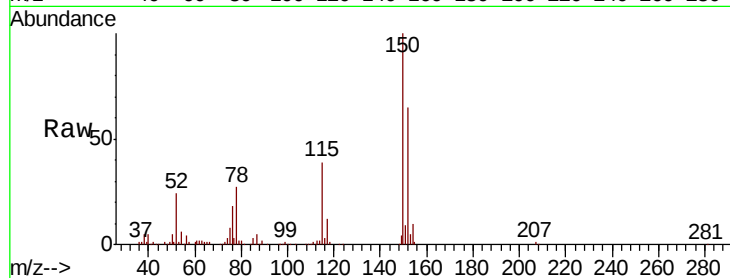
Tot Ion:152 Resp: 132956

Ion Ratio Lower Upper

152 100

115 59.9 30.2 90.6

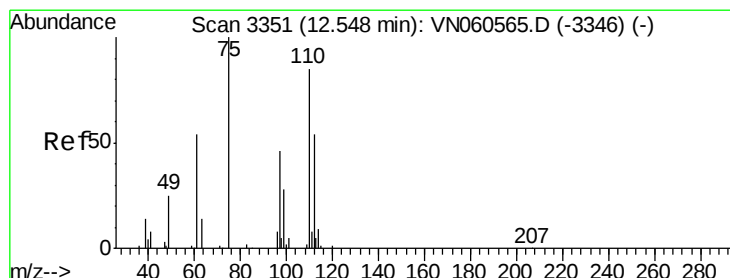
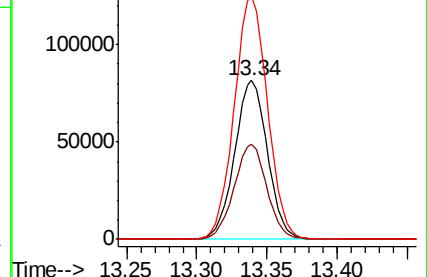
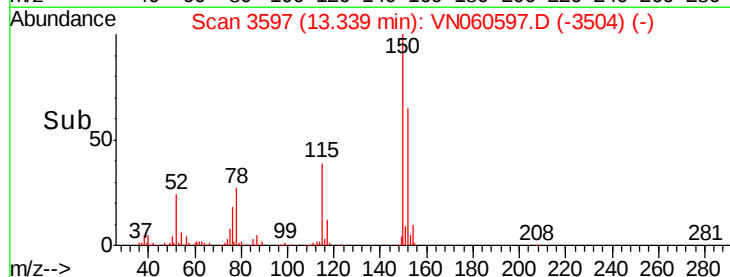
150 155.3 0.0 350.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 25.858 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN060597.D

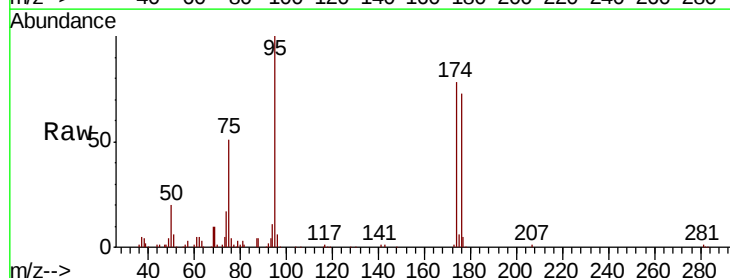
Acq: 18 Mar 2020 17:11

Tgt Ion: 75 Resp: 74184

Ion Ratio Lower Upper

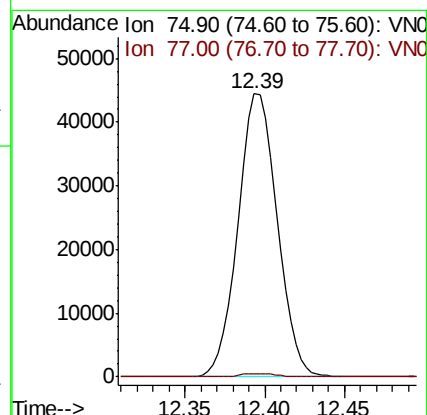
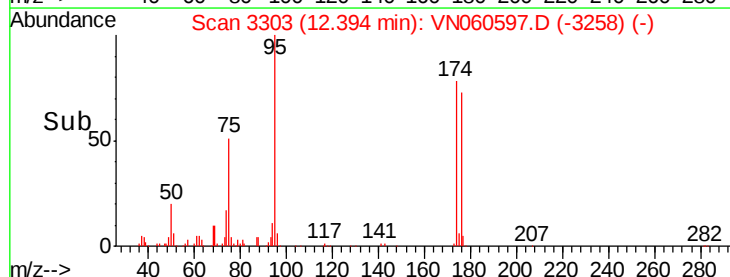
75 100

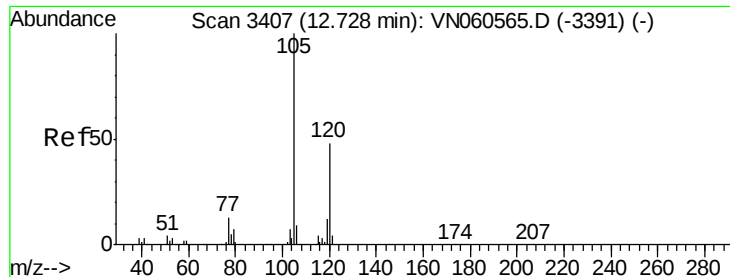
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.349 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN060597.D

Acq: 18 Mar 2020 17:11

Instrument :

MSVOA_N

ClientSampleId :

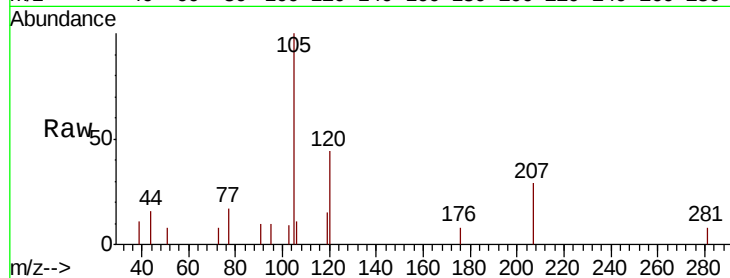
MH-F

Tot Ion:105 Resp: 2952

Ion Ratio Lower Upper

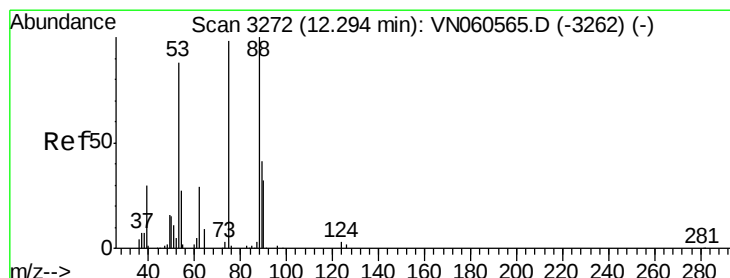
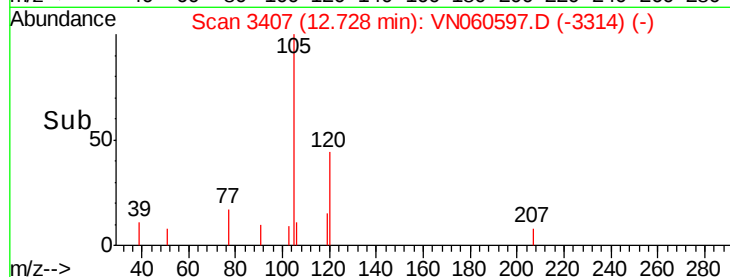
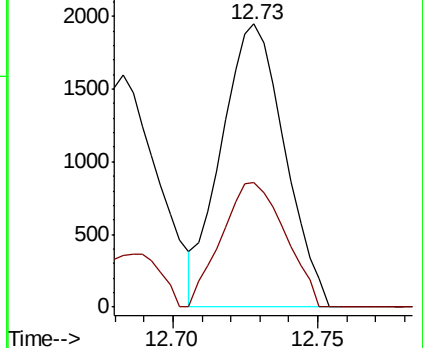
105 100

120 44.3 23.9 71.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 66.411 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN060597.D

Acq: 18 Mar 2020 17:11

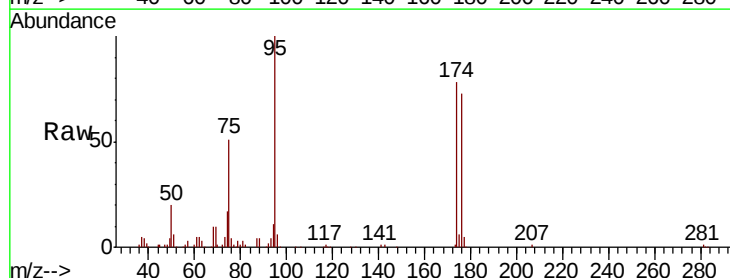
Tgt Ion: 75 Resp: 74184

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

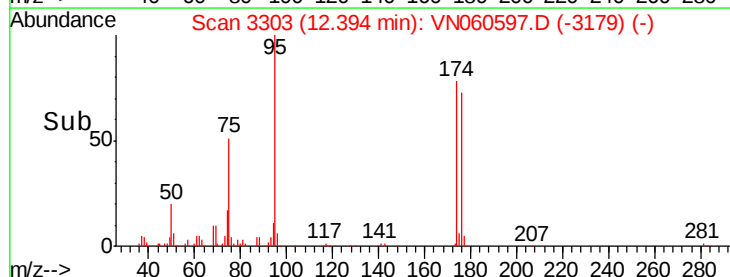
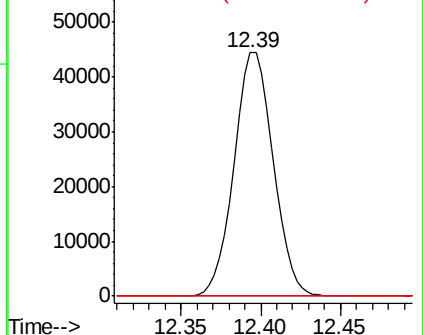
89 0.0 34.8 52.2#

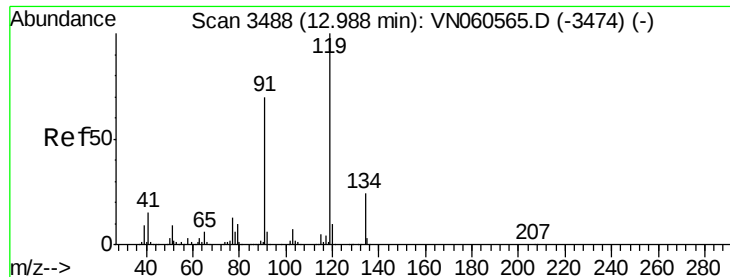


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

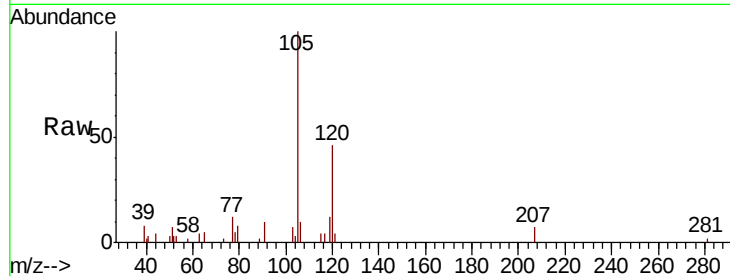




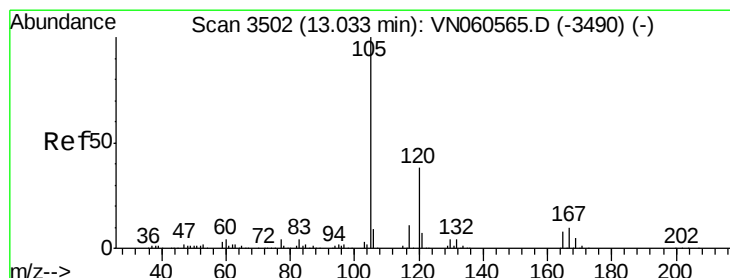
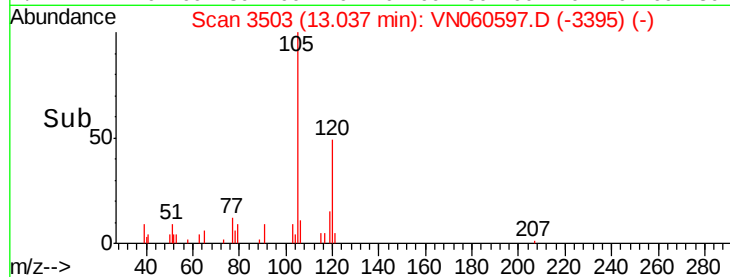
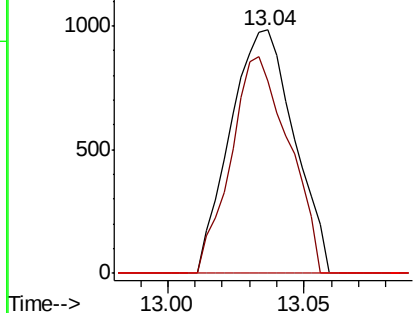
#83
 tert-Butylbenzene
 Concen: 0.227 ug/l
 RT: 13.04 min Scan# 3503
 Delta R.T. 0.05 min
 Lab File: VN060597.D
 Acq: 18 Mar 2020 17:11

Instrument :
 MSVOA_N
 ClientSampled :
 MH-F

Tot Ion:119 Resp: 1595
 Ion Ratio Lower Upper
 119 100
 91 81.2 34.0 101.8
 134 0.0 12.7 38.0#

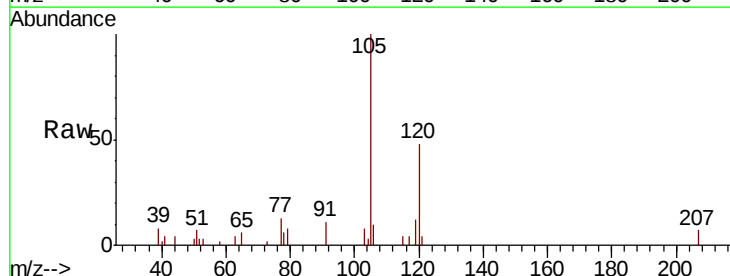


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): V
 Ion 134.00 (133.70 to 134.70): V

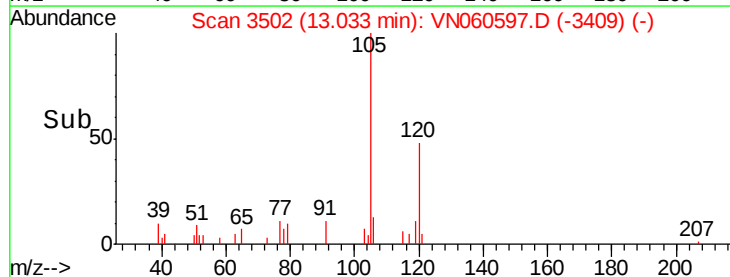
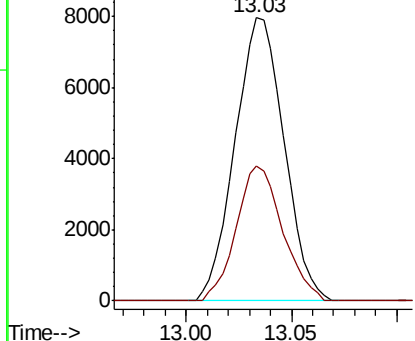


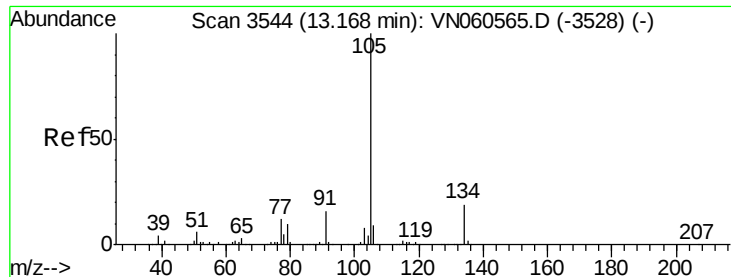
#84
 1,2,4-Trimethylbenzene
 Concen: 1.535 ug/l
 RT: 13.03 min Scan# 3502
 Delta R.T. 0.00 min
 Lab File: VN060597.D
 Acq: 18 Mar 2020 17:11

Tgt Ion:105 Resp: 12861
 Ion Ratio Lower Upper
 105 100
 120 44.8 22.1 66.5



Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 1.363 ug/l

RT: 13.03 min Scan# 3502

Delta R.T. -0.14 min

Lab File: VN060597.D

Acq: 18 Mar 2020 17:11

Instrument :

MSVOA_N

ClientSampled :

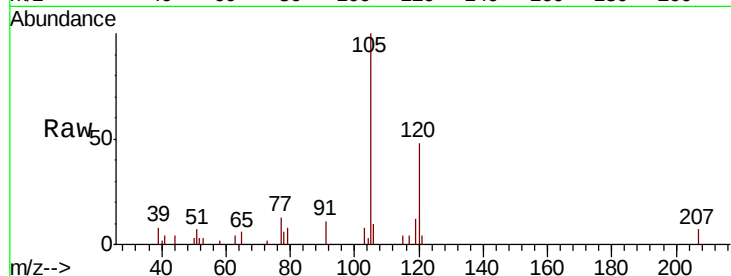
MH-F

Tot Ion:105 Resp: 12861

Ion Ratio Lower Upper

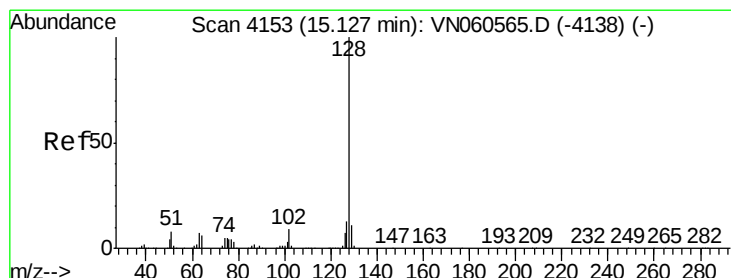
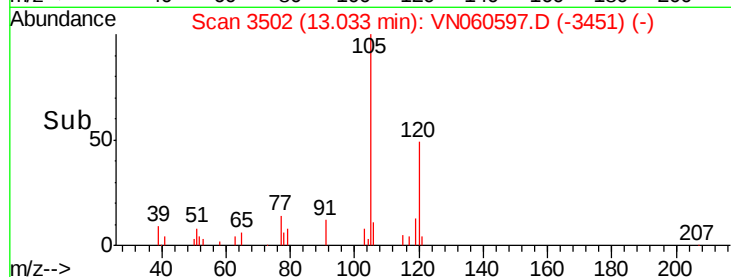
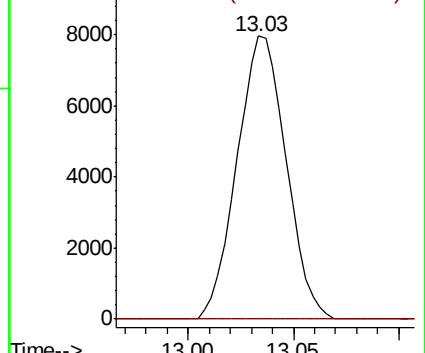
105 100

134 0.0 9.6 28.8#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#95

Naphthalene

Concen: 0.867 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. 0.00 min

Lab File: VN060597.D

Acq: 18 Mar 2020 17:11

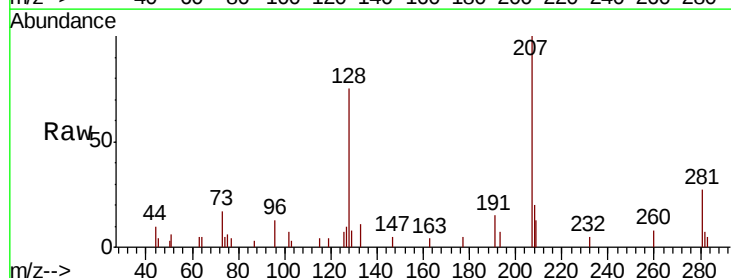
Tgt Ion:128 Resp: 6491

Ion Ratio Lower Upper

128 100

127 12.3 10.2 15.2

129 9.3 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

