

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN073018\
 Data File : VN050190.D
 Acq On : 30 Jul 2018 16:23
 Operator : MD\SY
 Sample : J4221-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-23

Quant Time: Jul 31 01:12:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 26 18:10:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	689523	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1124282	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	926551	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	352808	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	475597	49.44	ug/l	0.00
Spiked Amount			Recovery	=	98.88%	
35) Dibromofluoromethane	7.59	113	427207	46.54	ug/l	0.00
Spiked Amount			Recovery	=	93.08%	
50) Toluene-d8	10.09	98	1512974	44.83	ug/l	0.00
Spiked Amount			Recovery	=	89.66%	
62) 4-Bromofluorobenzene	12.40	95	425978	38.33	ug/l	0.00
Spiked Amount			Recovery	=	76.66%	

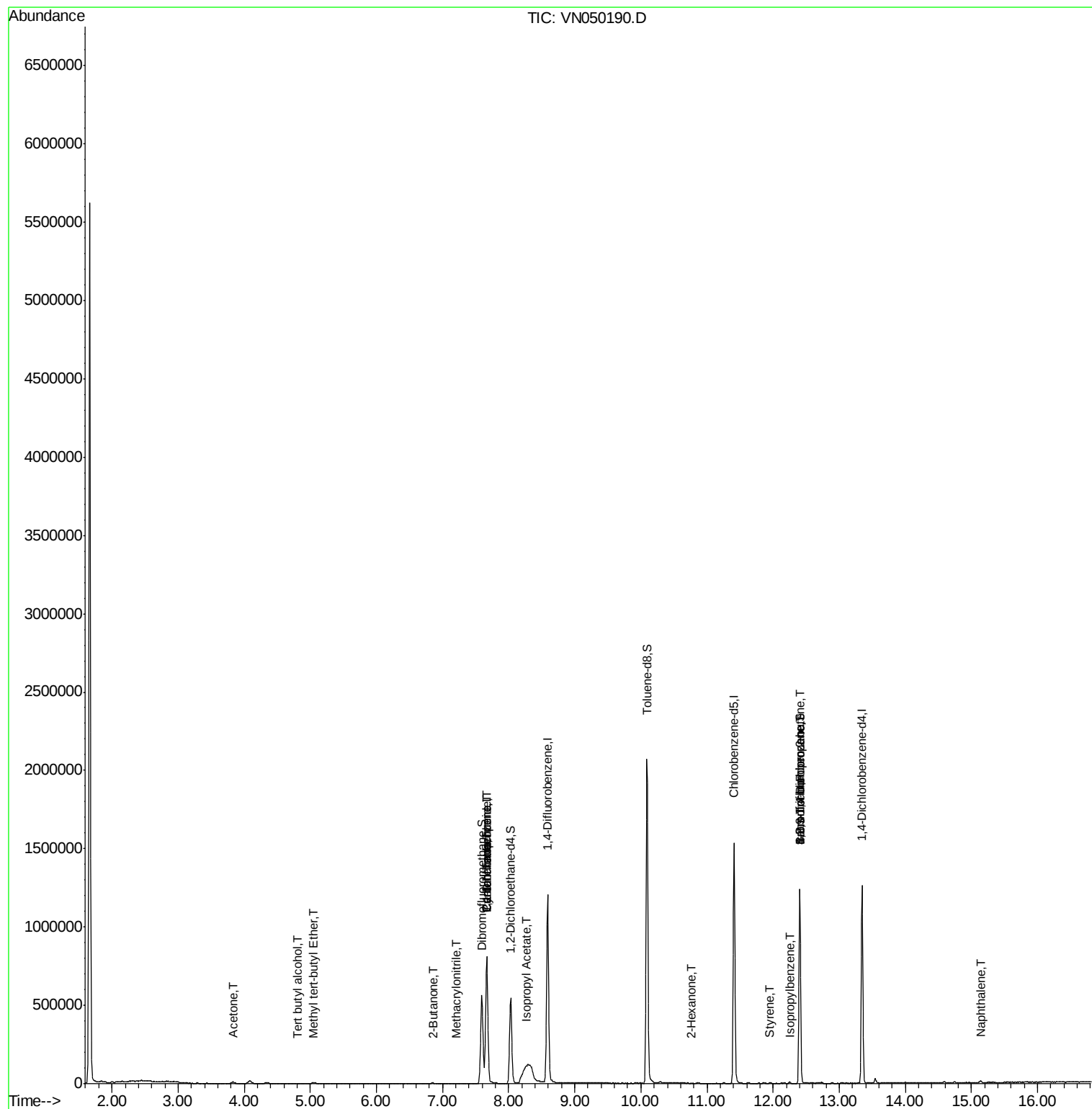
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	346	Below Cal	#	65
11) Tert butyl alcohol	4.80	59	1874	2.65	ug/l	# 72
16) Acetone	3.83	43	15944	2.74	ug/l	92
18) Methyl Acetate	4.34	43	12915	Below Cal		93
19) Methyl tert-butyl Ether	5.05	73	7012	0.33	ug/l	# 89
20) Methylene Chloride	4.55	84	691	Below Cal	#	84
25) 2-Butanone	6.85	43	2372	0.65	ug/l	# 61
31) Cyclohexane	7.67	56	12824	0.90	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	48351	3.82	ug/l	# 48
38) Carbon Tetrachloride	7.67	117	63260	4.71	ug/l	# 16
41) Methacrylonitrile	7.20	41	62	2.76	ug/l	# 10
43) Isopropyl Acetate	8.26	43	146347	7.83	ug/l	# 61
59) 2-Hexanone	10.76	43	294	5.22	ug/l	# 24
70) Styrene	11.96	104	105	0.93	ug/l	# 1
71) Bromoform	12.40	173	3906	0.60	ug/l	# 1
73) Isopropylbenzene	12.25	105	5768	0.21	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.61	83	104	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	206666	31.52	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	206666	99.98	ug/l	# 13
92) 1,2-Dibromo-3-Chloropropan	14.03	75	30	Below Cal	#	1
95) Naphthalene	15.14	128	10160	4.99	ug/l	96

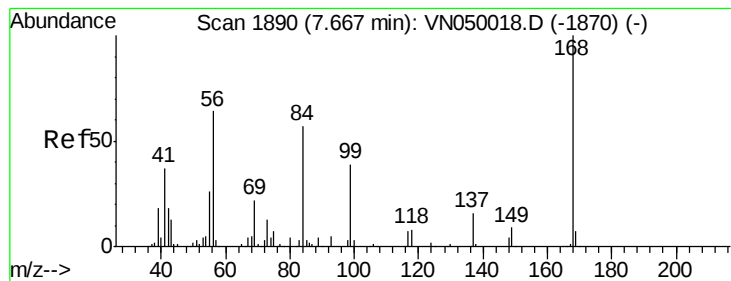
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jul 26 18:10:10 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050190.D

Acq: 30 Jul 2018 16:23

Instrument :

MSVOA_N

ClientSampled :

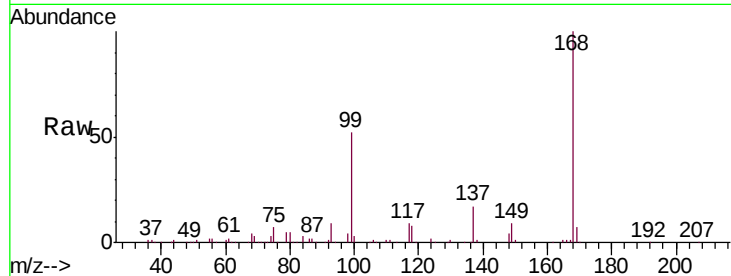
MW-23

Tot Ion:168 Resp: 689523

Ion Ratio Lower Upper

168 100

99 51.8 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

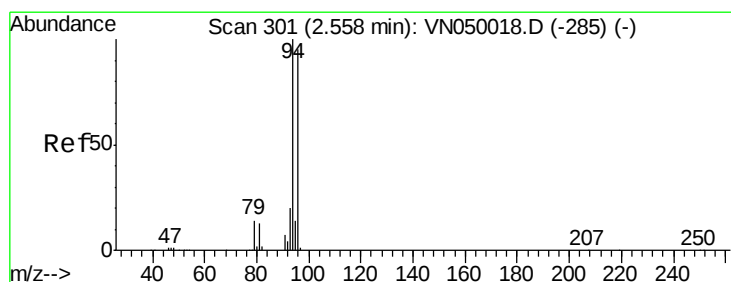
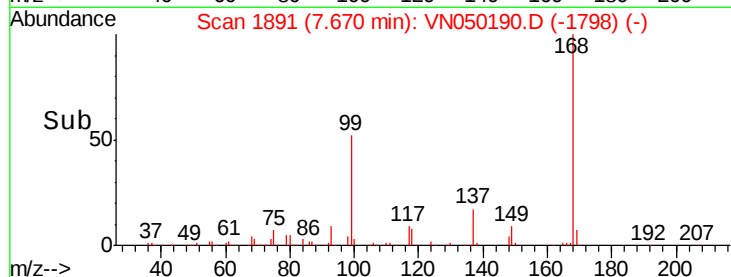
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 303

Delta R.T. 0.01 min

Lab File: VN050190.D

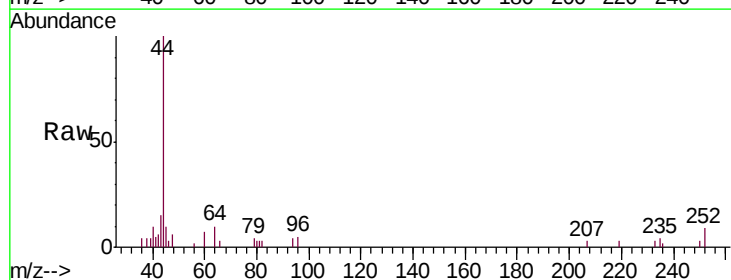
Acq: 30 Jul 2018 16:23

Tgt Ion: 94 Resp: 346

Ion Ratio Lower Upper

94 100

96 59.4 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.56

400

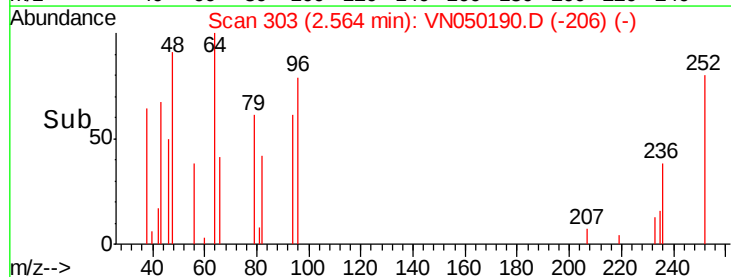
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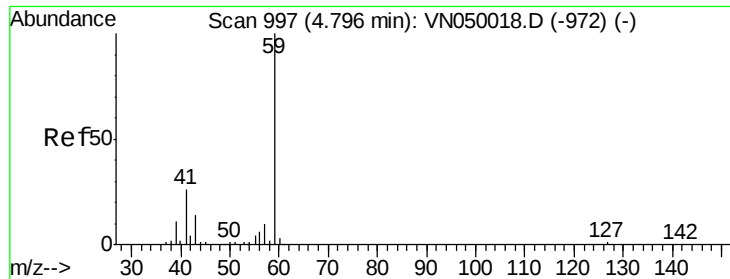
200

100

0

Time-->



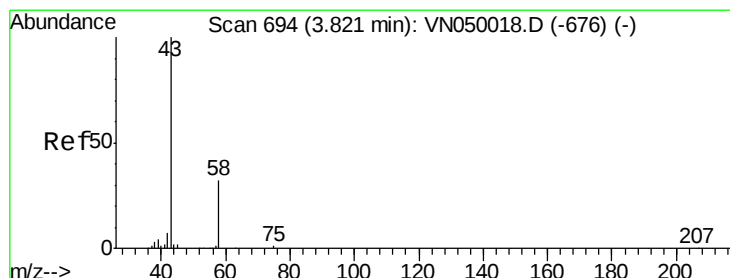
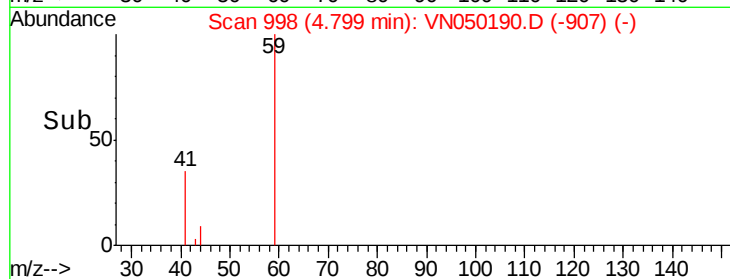
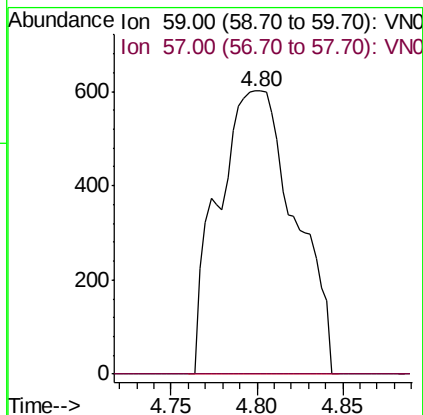
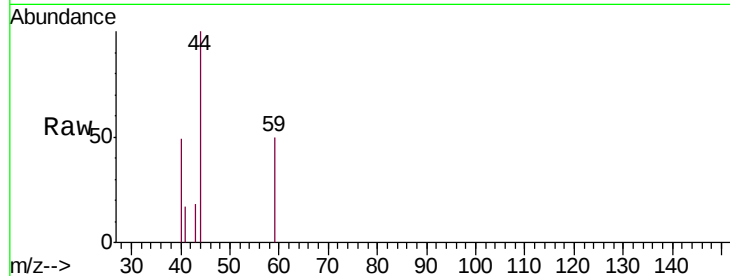


#11

Tert butyl alcohol
 Concen: 2.65 ug/l
 RT: 4.80 min Scan# 998
 Delta R.T. -0.01 min
 Lab File: VN050190.D
 Acq: 30 Jul 2018 16:23

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-23

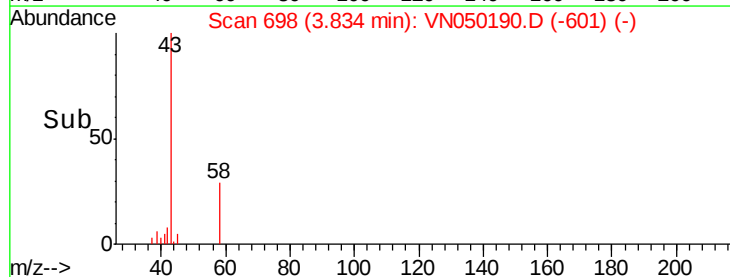
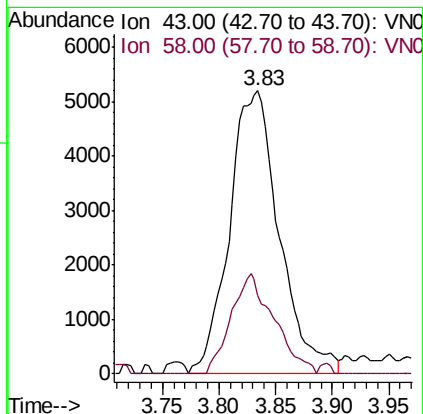
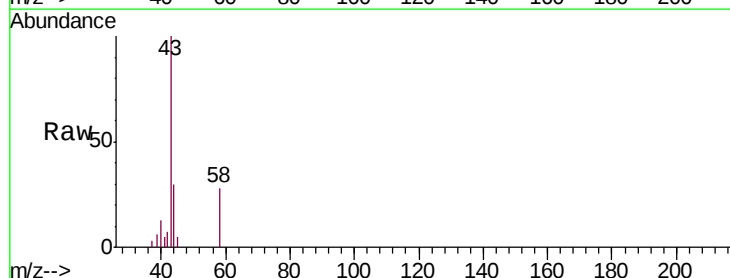
Tot Ion: 59 Resp: 1874
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

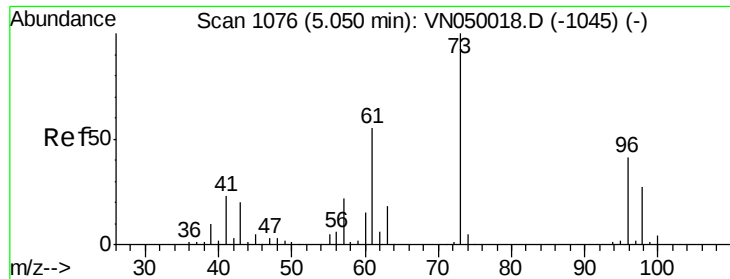


#16

Acetone
 Concen: 2.74 ug/l
 RT: 3.83 min Scan# 698
 Delta R.T. 0.01 min
 Lab File: VN050190.D
 Acq: 30 Jul 2018 16:23

Tgt Ion: 43 Resp: 15944
 Ion Ratio Lower Upper
 43 100
 58 28.0 25.8 38.8

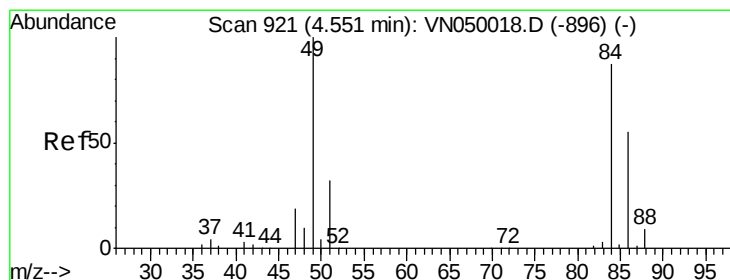
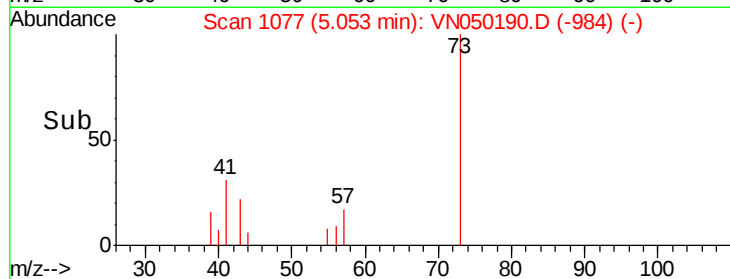
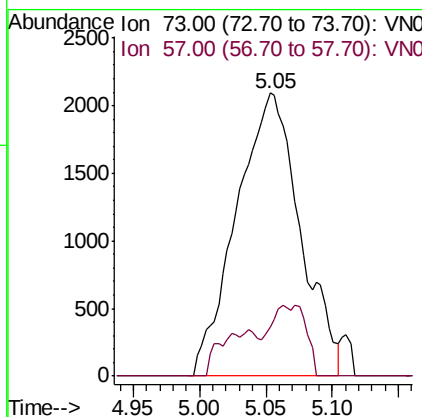
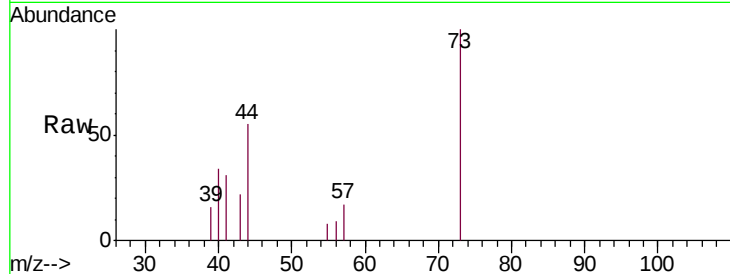




#19
Methyl tert-butyl Ether
Concen: 0.33 ug/l
RT: 5.05 min Scan# 1077
Delta R.T. 0.00 min
Lab File: VN050190.D
Acq: 30 Jul 2018 16:23

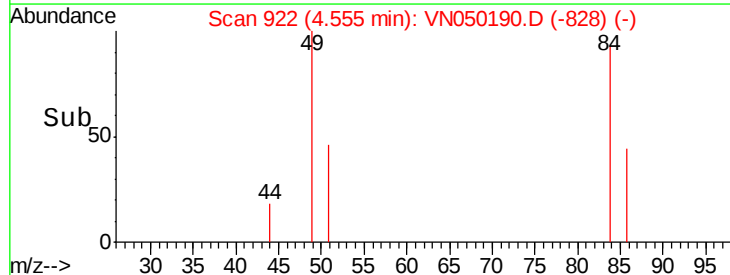
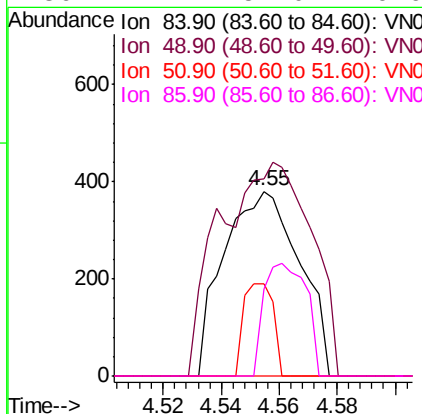
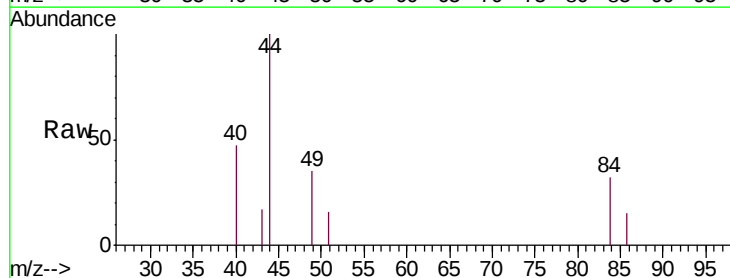
Instrument :
MSVOA_N
ClientSampled :
MW-23

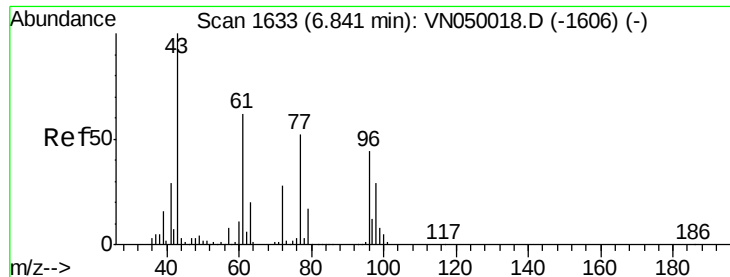
Tot Ion: 73 Resp: 7012
Ion Ratio Lower Upper
73 100
57 17.3 18.0 27.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050190.D
Acq: 30 Jul 2018 16:23

Tgt Ion: 84 Resp: 691
Ion Ratio Lower Upper
84 100
49 107.1 94.8 142.2
51 49.7 28.3 42.5#
86 47.4 51.0 76.6#





#25

2-Butanone

Concen: 0.65 ug/l

RT: 6.85 min Scan# 1637

Delta R.T. 0.01 min

Lab File: VN050190.D

Acq: 30 Jul 2018 16:23

Instrument :

MSVOA_N

ClientSampleId :

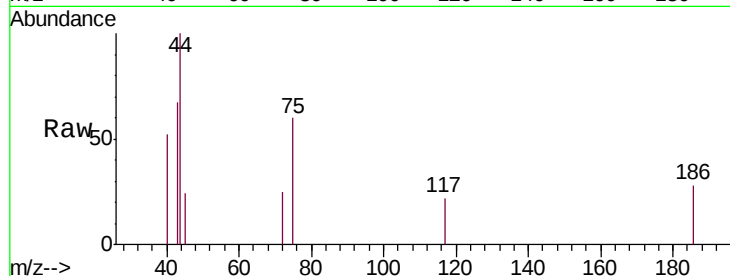
MW-23

Tot Ion: 43 Resp: 2372

Ion Ratio Lower Upper

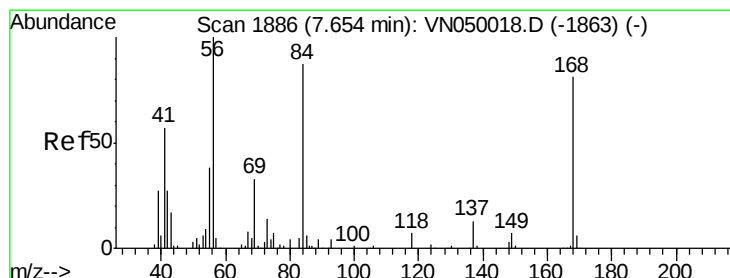
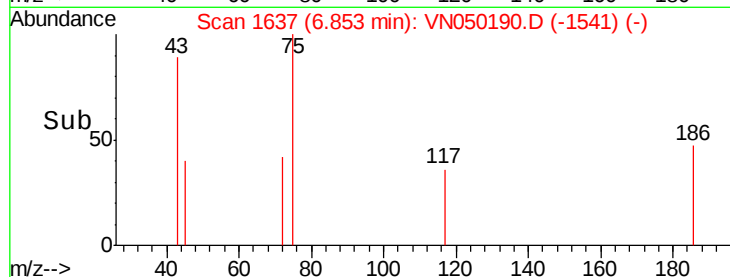
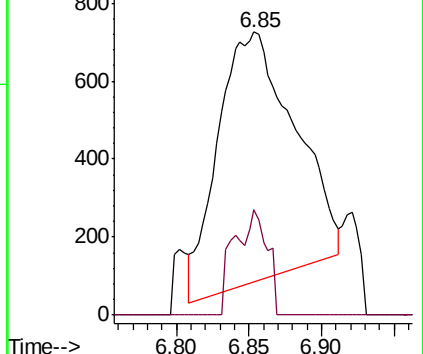
43 100

72 47.1 21.5 32.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#31

Cyclohexane

Concen: 0.90 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050190.D

Acq: 30 Jul 2018 16:23

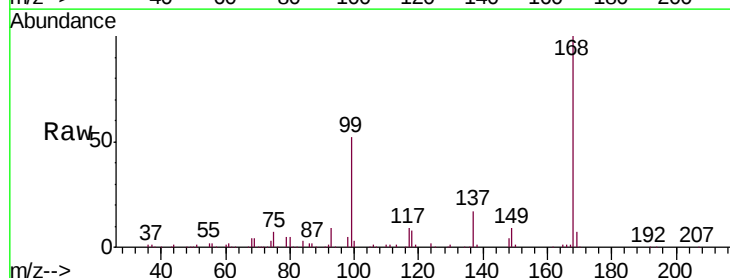
Tgt Ion: 56 Resp: 12824

Ion Ratio Lower Upper

56 100

69 184.3 26.2 39.4#

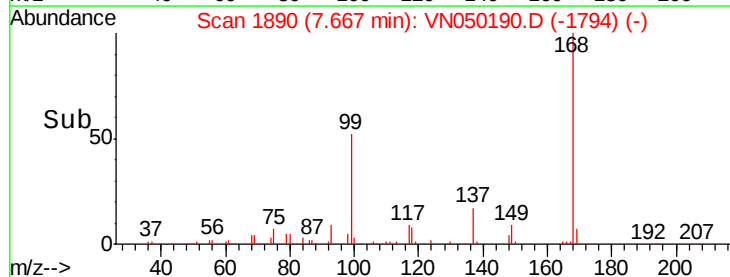
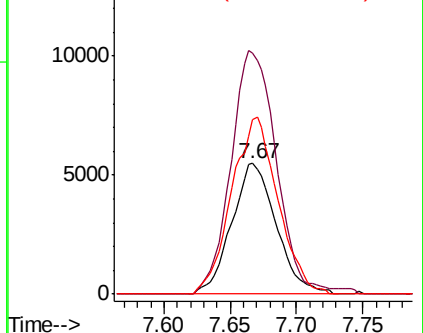
84 133.1 67.4 101.0#

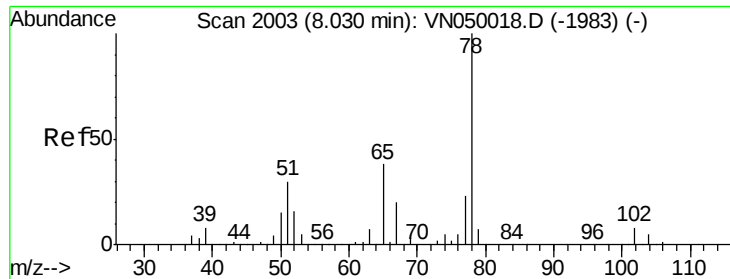


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

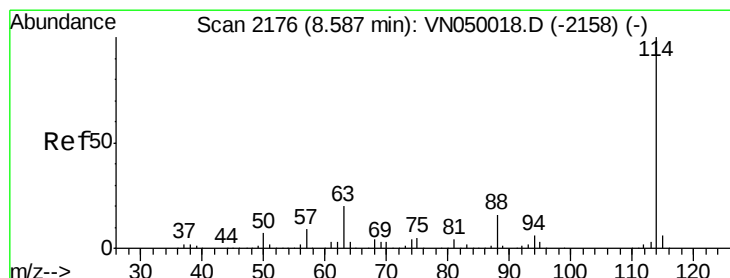
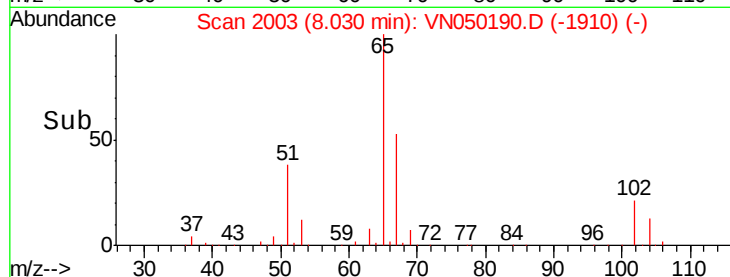
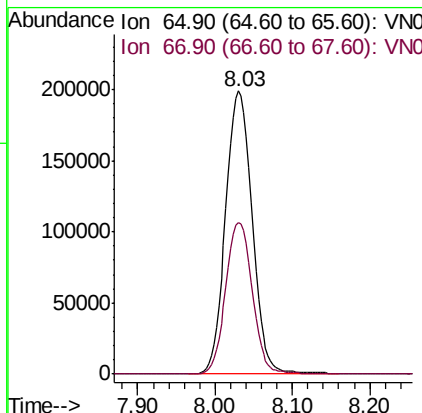
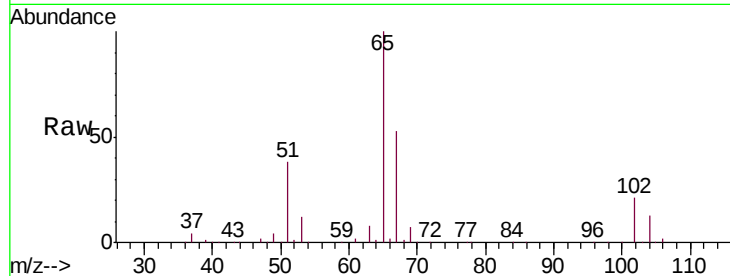




#33
 1,2-Dichloroethane-d4
 Concen: 49.44 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050190.D
 Acq: 30 Jul 2018 16:23

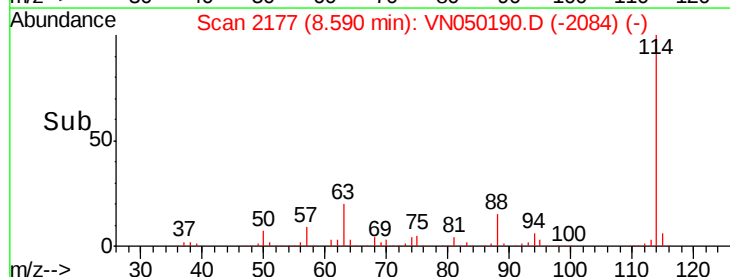
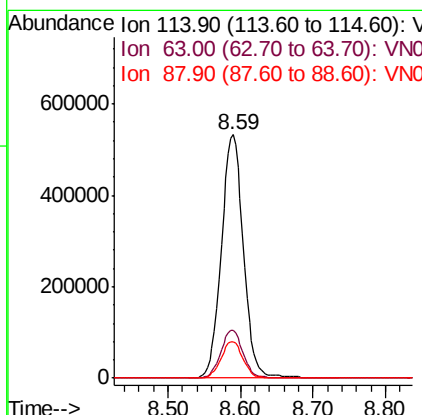
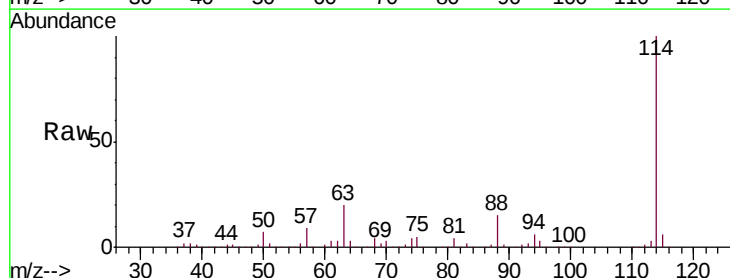
Instrument :
 MSVOA_N
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 MW-23

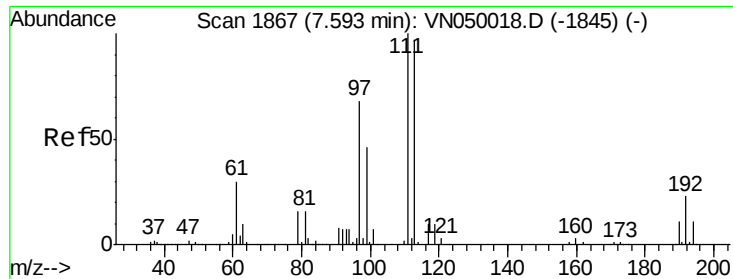
Tot Ion: 65 Resp: 475597
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050190.D
 Acq: 30 Jul 2018 16:23

Tgt Ion: 114 Resp: 1124282
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 40.0
 88 15.1 0.0 31.2

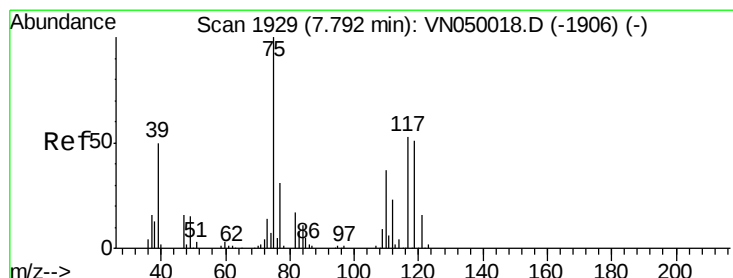
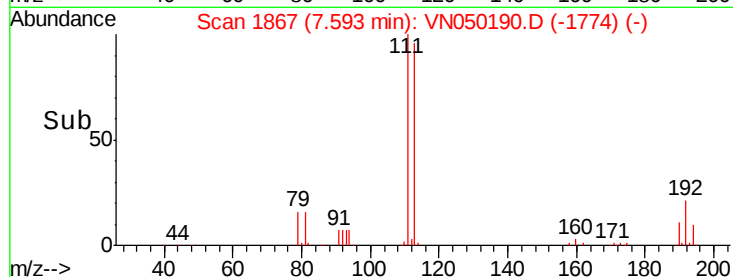
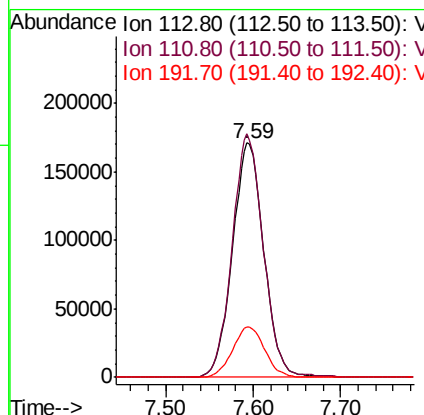
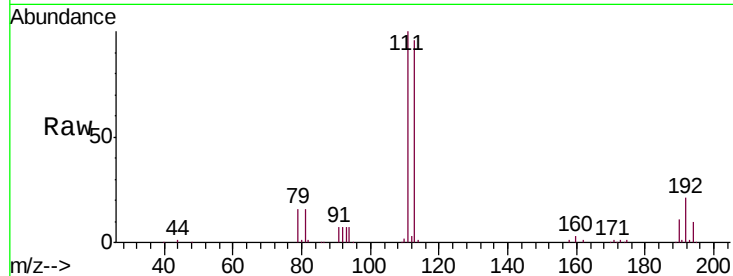




#35
 Dibromofluoromethane
 Concen: 46.54 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050190.D
 Acq: 30 Jul 2018 16:23

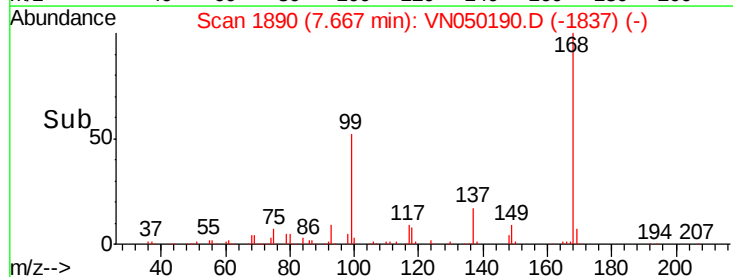
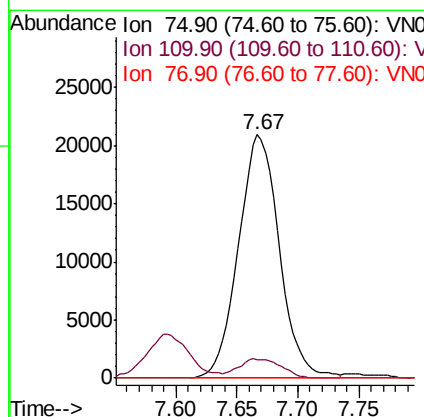
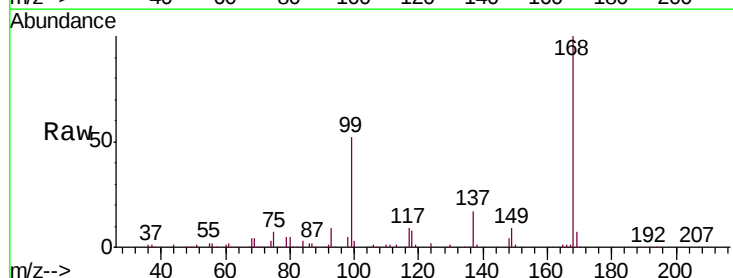
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 MW-23

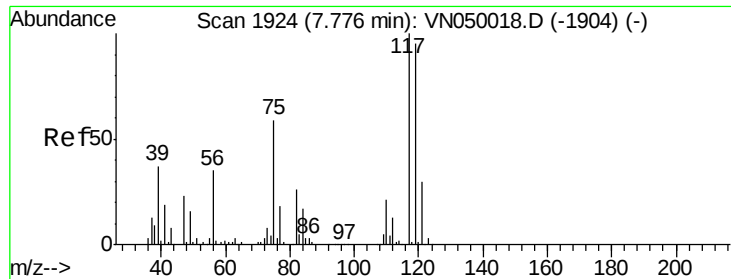
Tot Ion:113 Resp: 427207
 Ion Ratio Lower Upper
 113 100
 111 102.7 80.7 121.1
 192 21.9 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.82 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050190.D
 Acq: 30 Jul 2018 16:23

Tgt Ion: 75 Resp: 48351
 Ion Ratio Lower Upper
 75 100
 110 8.3 18.4 55.2#
 77 0.0 25.3 37.9#





#38

Carbon Tetrachloride

Concen: 4.71 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN050190.D

Acq: 30 Jul 2018 16:23

Instrument :

MSVOA_N

ClientSampled :

MW-23

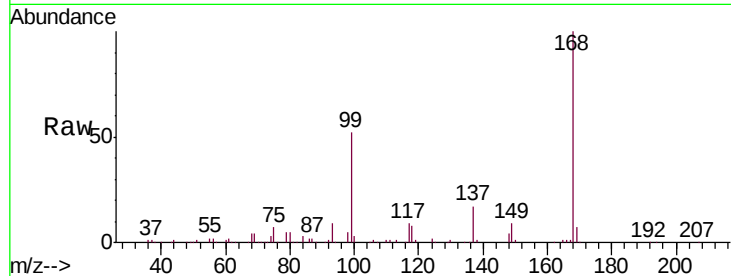
Tot Ion:117 Resp: 63260

Ion Ratio Lower Upper

117 100

119 5.5 77.4 116.0#

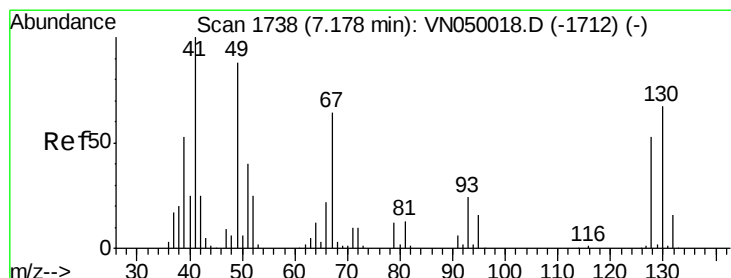
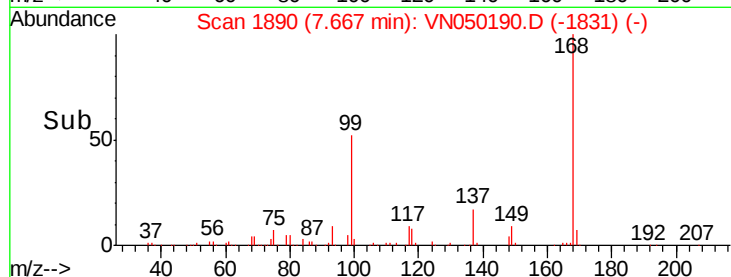
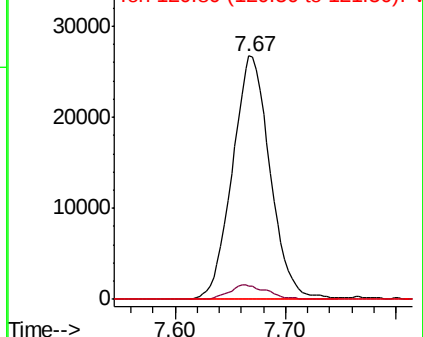
121 0.0 23.9 35.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 2.76 ug/l

RT: 7.20 min Scan# 1744

Delta R.T. 0.02 min

Lab File: VN050190.D

Acq: 30 Jul 2018 16:23

Tgt Ion: 41 Resp: 62

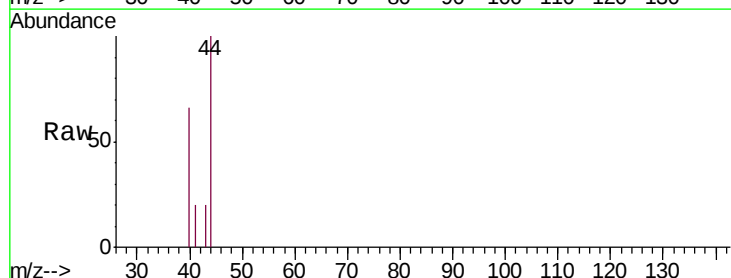
Ion Ratio Lower Upper

41 100

39 0.0 55.8 83.6#

67 0.0 84.3 126.5#

52 0.0 34.2 51.2#

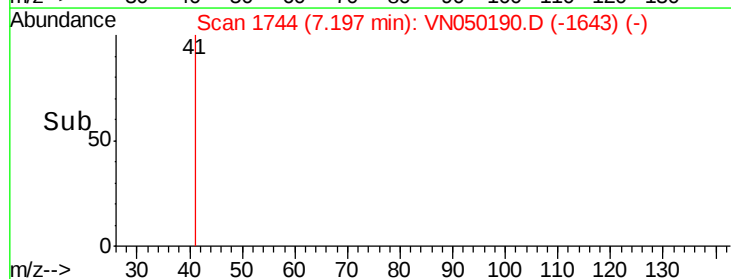
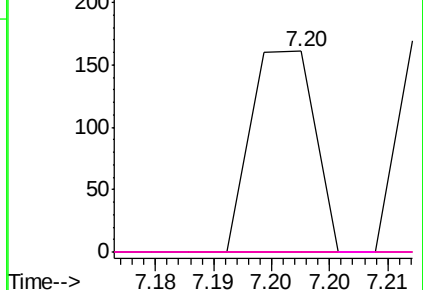


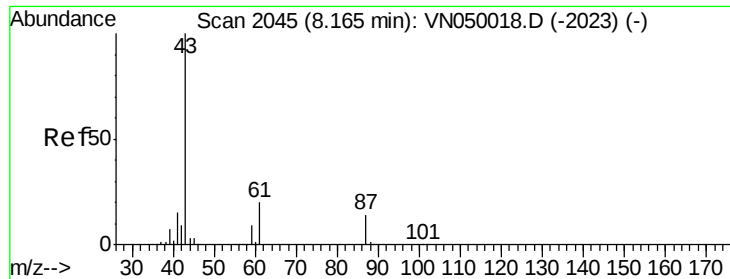
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 7.83 ug/l

RT: 8.26 min Scan# 2075

Delta R.T. 0.09 min

Lab File: VN050190.D

Acq: 30 Jul 2018 16:23

Instrument :

MSVOA_N

ClientSampleId :

MW-23

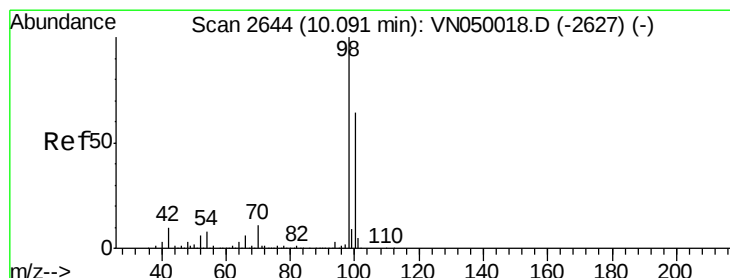
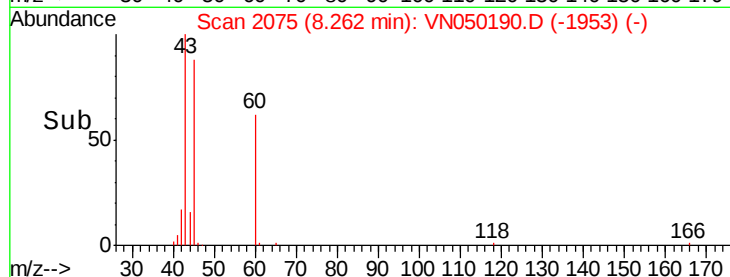
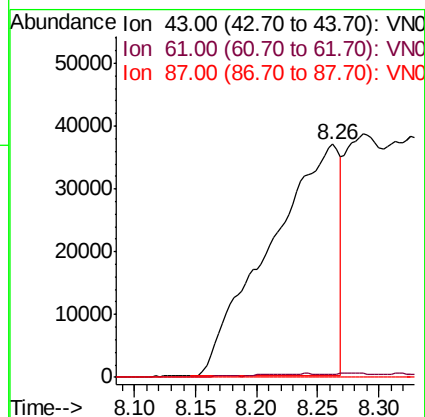
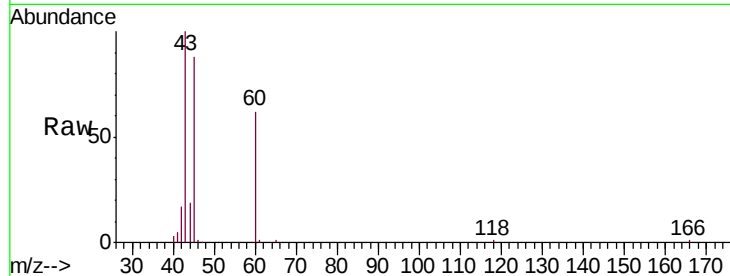
Tot Ion: 43 Resp: 146347

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.6#

87 0.0 10.3 15.5#



#50

Toluene-d8

Concen: 44.83 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VN050190.D

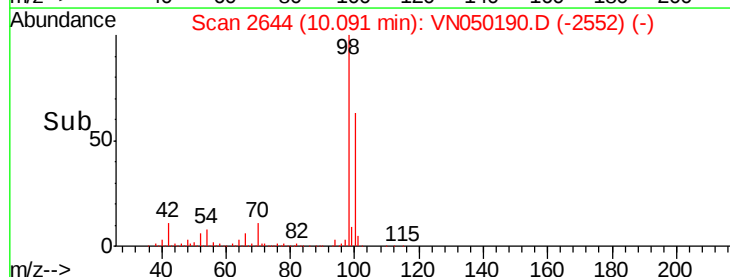
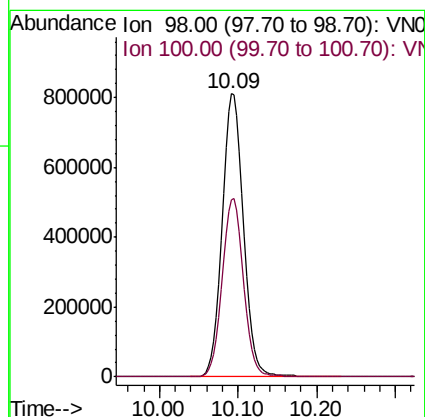
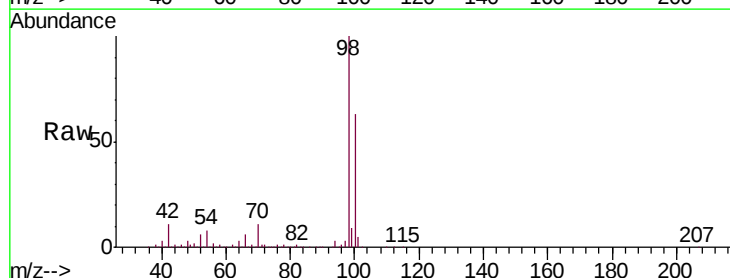
Acq: 30 Jul 2018 16:23

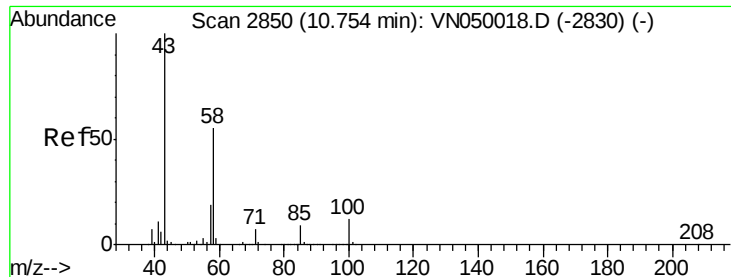
Tgt Ion: 98 Resp: 1512974

Ion Ratio Lower Upper

98 100

100 63.3 50.7 76.1

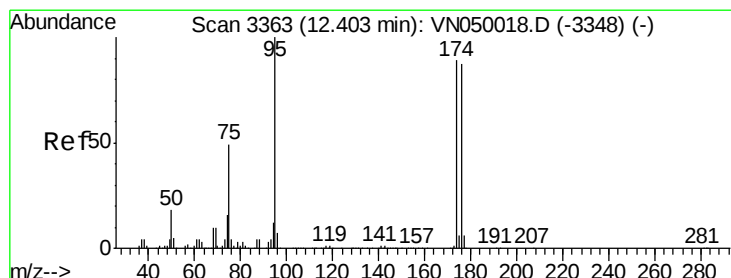
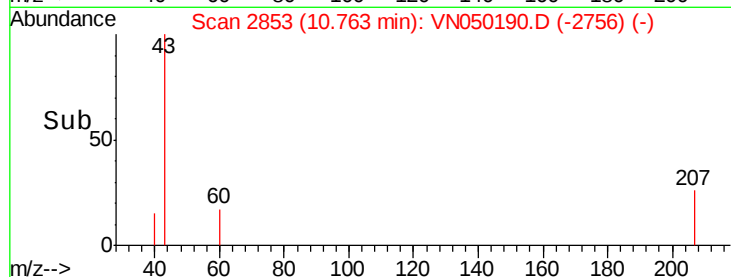
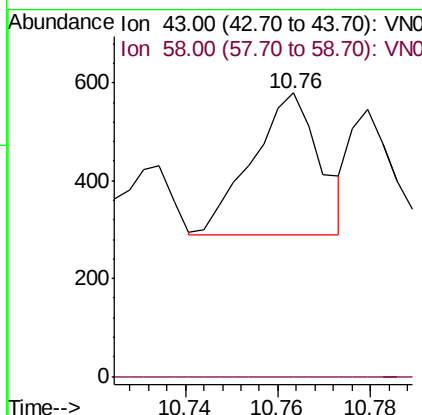
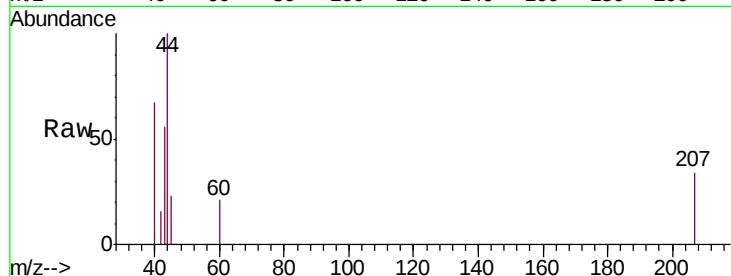




#59
2-Hexanone
Concen: 5.22 ug/l
RT: 10.76 min Scan# 2853
Delta R.T. 0.01 min
Lab File: VN050190.D
Acq: 30 Jul 2018 16:23

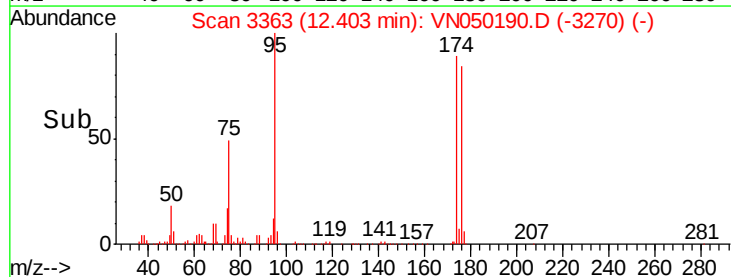
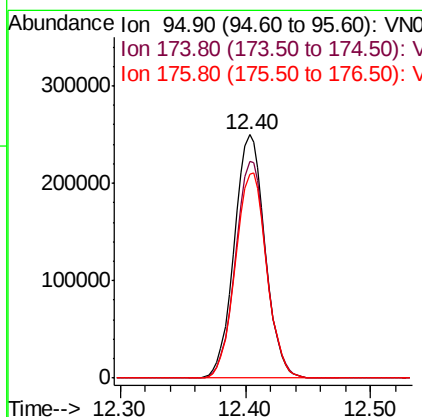
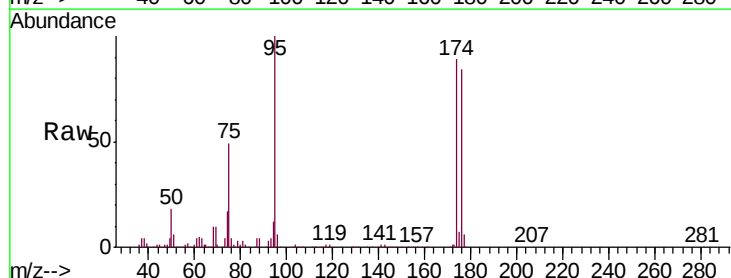
Instrument :
MSVOA_N
ClientSampled :
MW-23

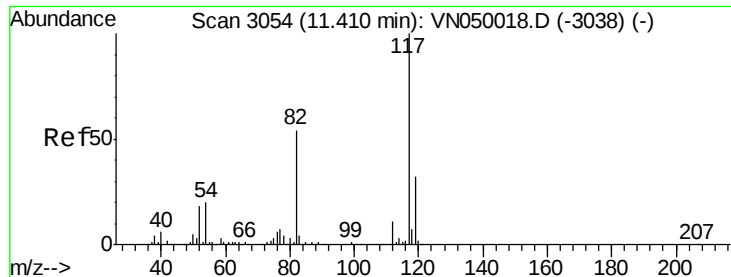
Tot Ion: 43 Resp: 294
Ion Ratio Lower Upper
43 100
58 0.0 27.6 82.7#



#62
4-Bromofluorobenzene
Concen: 38.33 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050190.D
Acq: 30 Jul 2018 16:23

Tgt Ion: 95 Resp: 425978
Ion Ratio Lower Upper
95 100
174 89.3 0.0 178.2
176 85.9 0.0 173.4





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN050190.D

Acq: 30 Jul 2018 16:23

Instrument :

MSVOA_N

ClientSampled :

MW-23

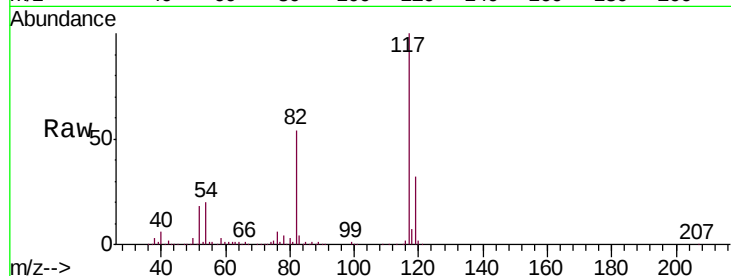
Tot Ion:117 Resp: 926551

Ion Ratio Lower Upper

117 100

82 53.9 43.7 65.5

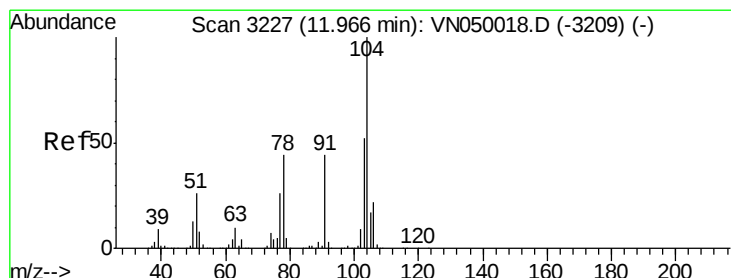
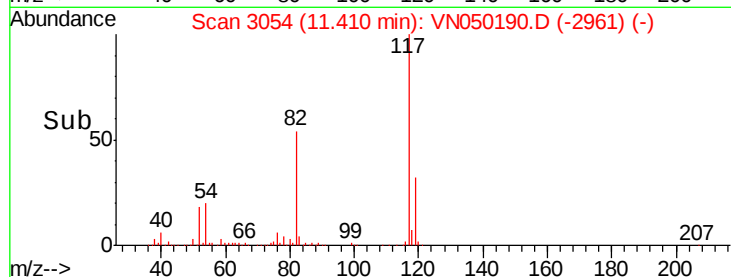
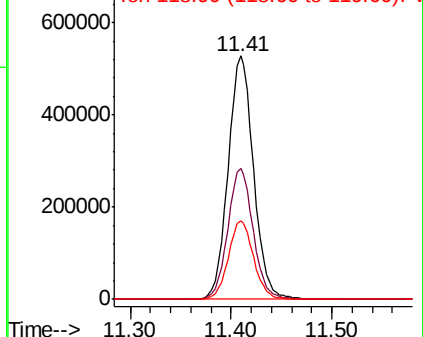
119 32.4 26.1 39.1



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): V



#70

Styrene

Concen: 0.93 ug/l

RT: 11.96 min Scan# 3225

Delta R.T. -0.01 min

Lab File: VN050190.D

Acq: 30 Jul 2018 16:23

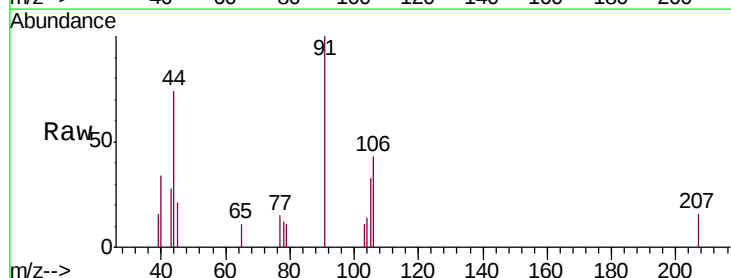
Tgt Ion:104 Resp: 105

Ion Ratio Lower Upper

104 100

78 333.3 39.3 58.9#

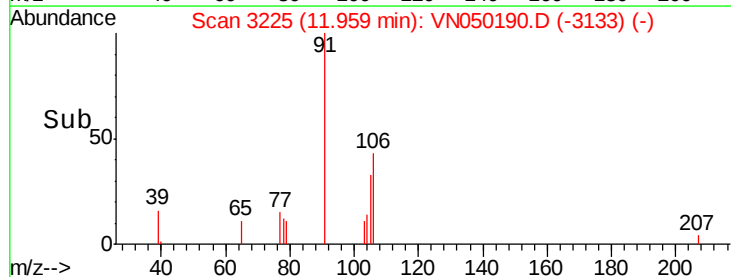
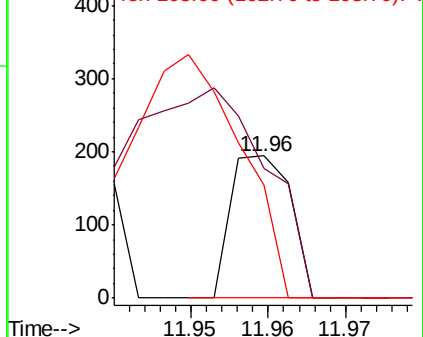
103 310.5 45.0 67.6#

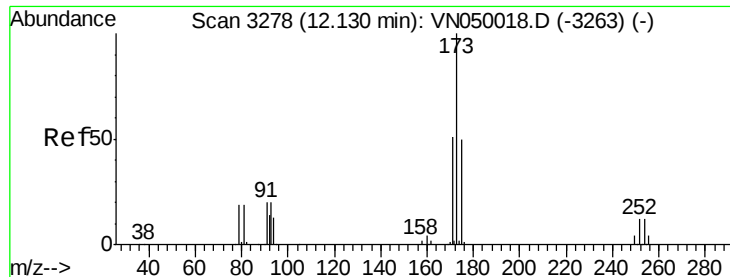


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN0

Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 0.60 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.27 min

Lab File: VN050190.D

Acq: 30 Jul 2018 16:23

Instrument :

MSVOA_N

ClientSampled :

MW-23

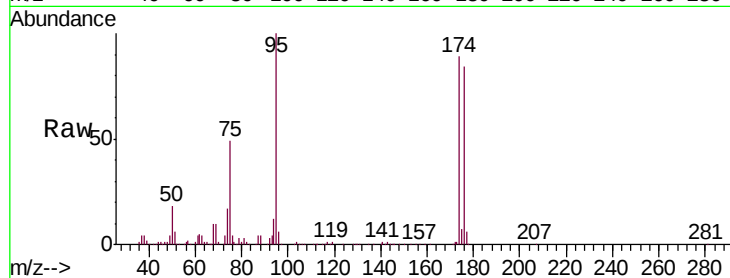
Tot Ion:173 Resp: 3906

Ion Ratio Lower Upper

173 100

175 643.1 24.1 72.2#

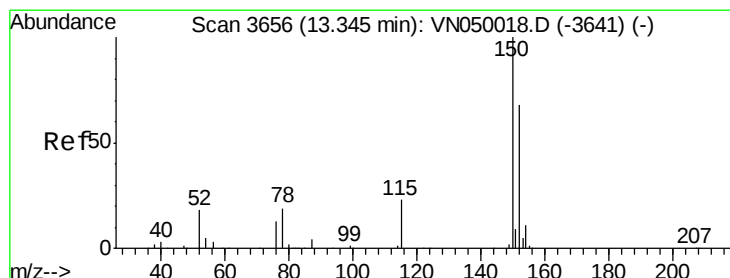
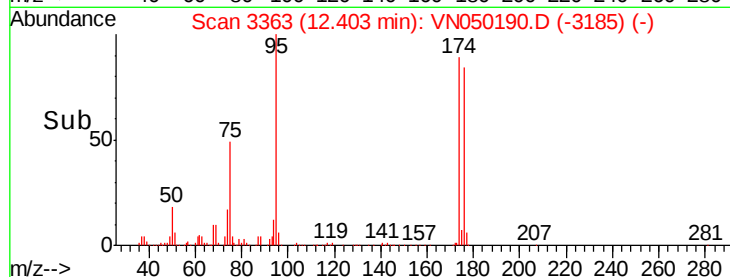
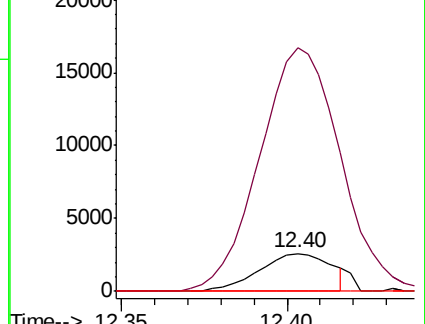
254 0.0 0.2 0.2#



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: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050190.D

Acq: 30 Jul 2018 16:23

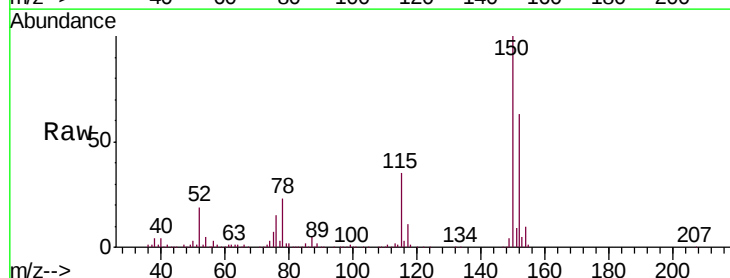
Tgt Ion:152 Resp: 352808

Ion Ratio Lower Upper

152 100

115 55.5 27.8 83.3

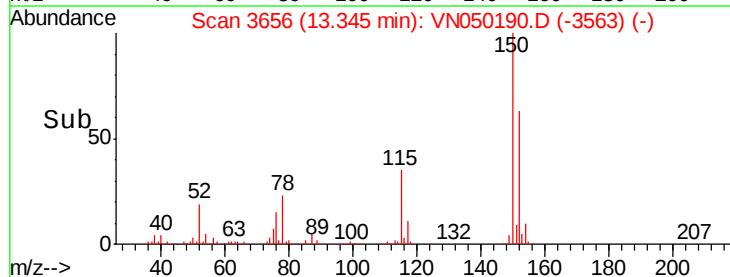
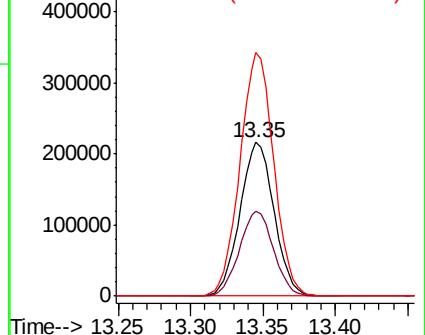
150 156.9 0.0 348.6

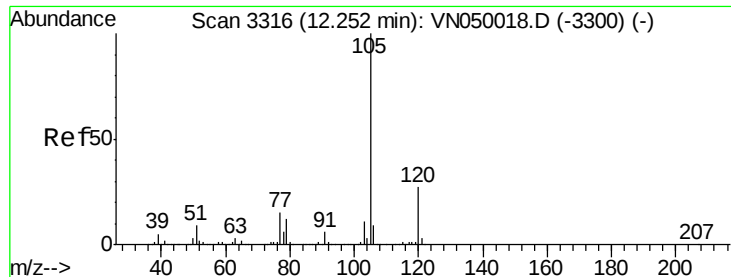


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 0.21 ug/l

RT: 12.25 min Scan# 3316

Delta R.T. 0.00 min

Lab File: VN050190.D

Acq: 30 Jul 2018 16:23

Instrument :

MSVOA_N

ClientSampled :

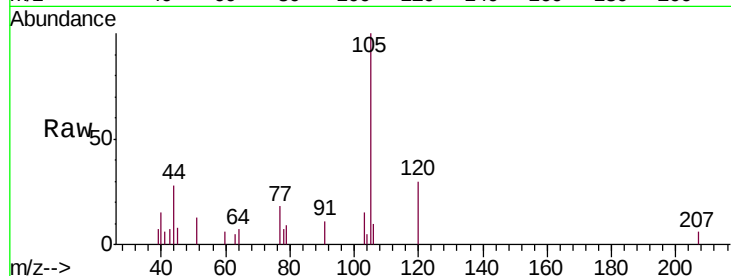
MW-23

Tot Ion:105 Resp: 5768

Ion Ratio Lower Upper

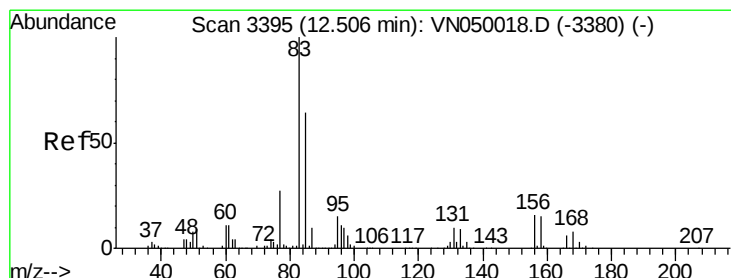
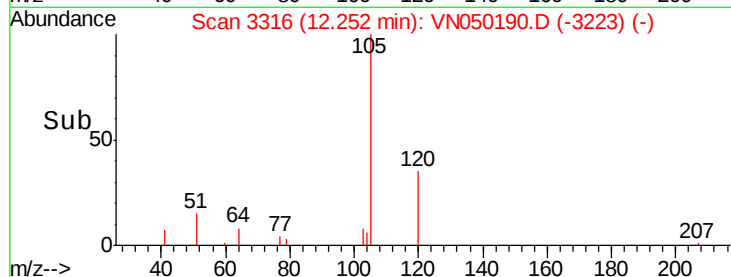
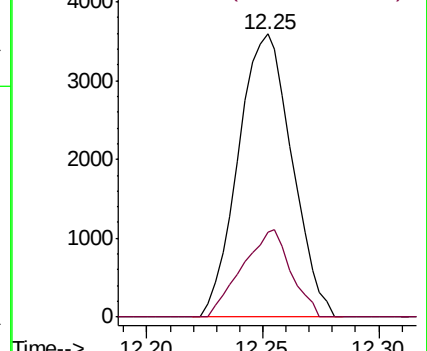
105 100

120 28.0 13.3 39.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.61 min Scan# 3428

Delta R.T. 0.11 min

Lab File: VN050190.D

Acq: 30 Jul 2018 16:23

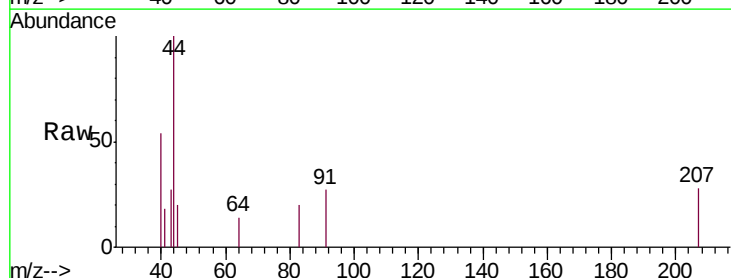
Tgt Ion: 83 Resp: 104

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.3#

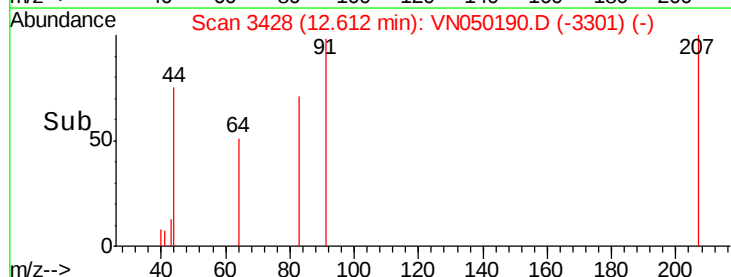
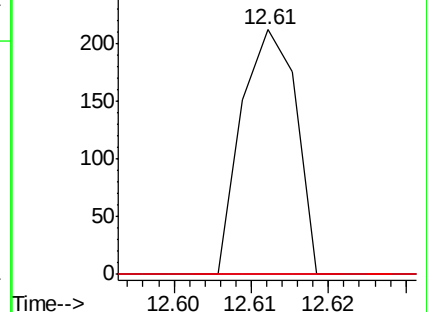
85 0.0 32.3 96.8#

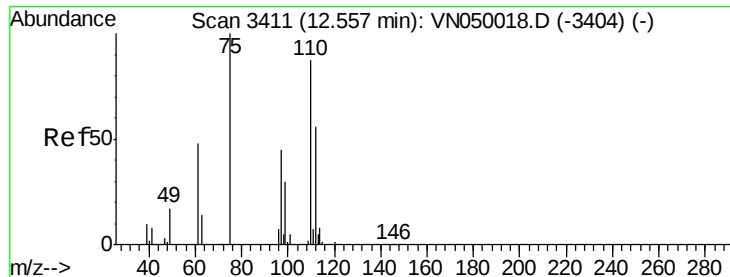


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 31.52 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050190.D

Acq: 30 Jul 2018 16:23

Instrument :

MSVOA_N

ClientSampled :

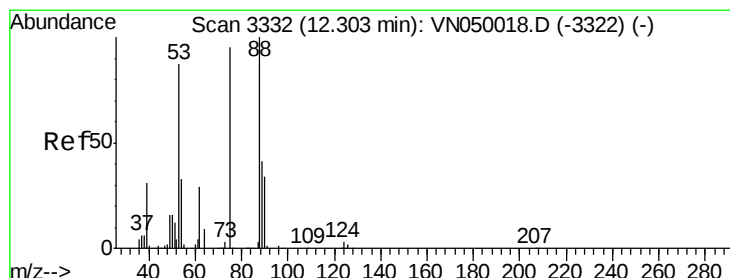
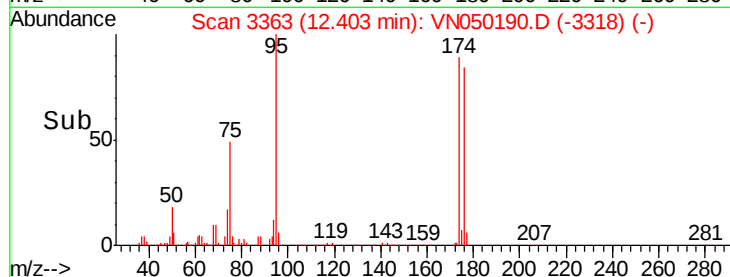
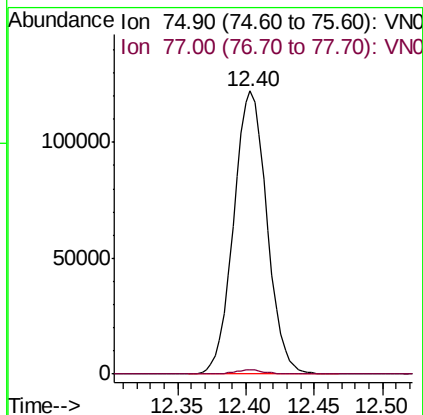
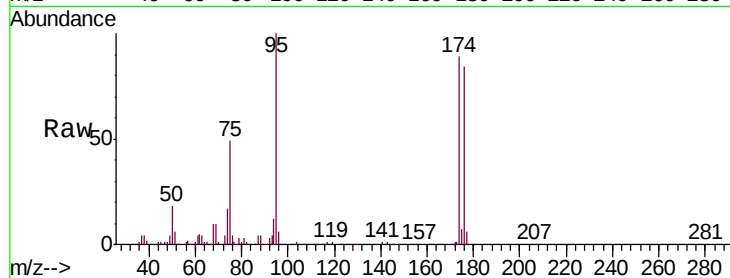
MW-23

Tot Ion: 75 Resp: 206666

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 99.98 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050190.D

Acq: 30 Jul 2018 16:23

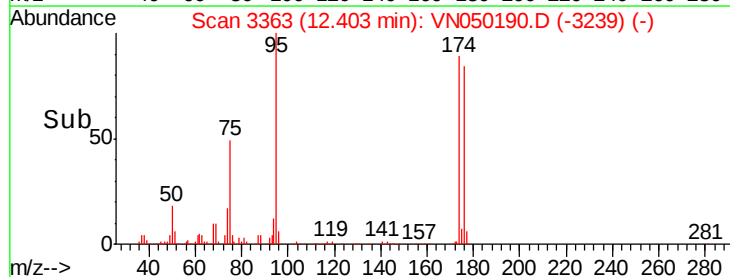
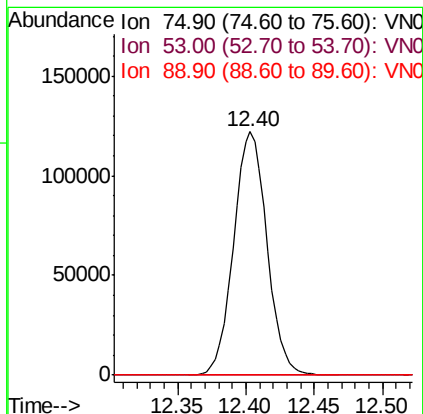
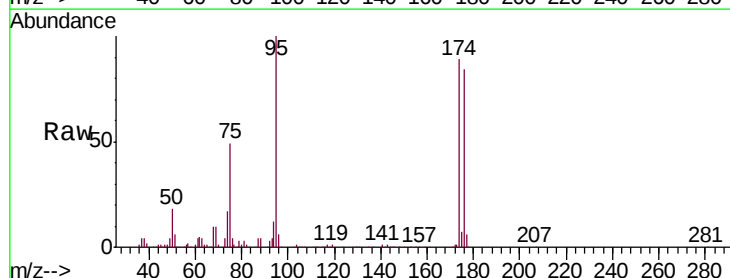
Tgt Ion: 75 Resp: 206666

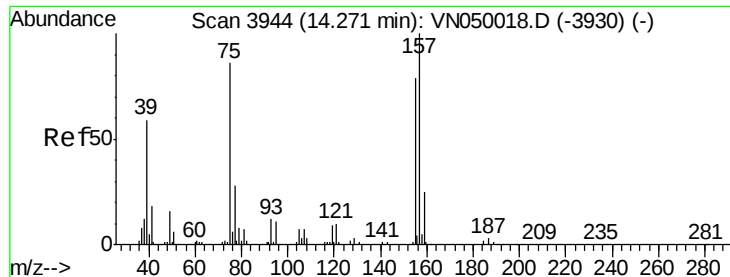
Ion Ratio Lower Upper

75 100

53 0.2 73.5 110.3#

89 0.0 36.0 54.0#

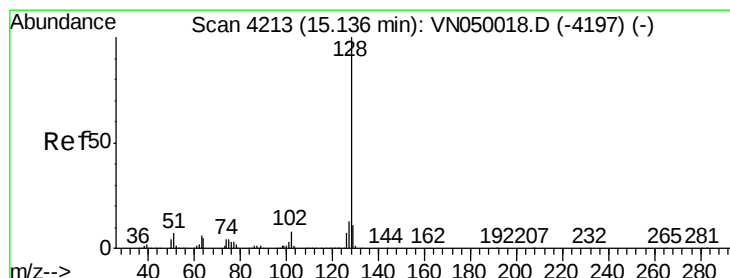
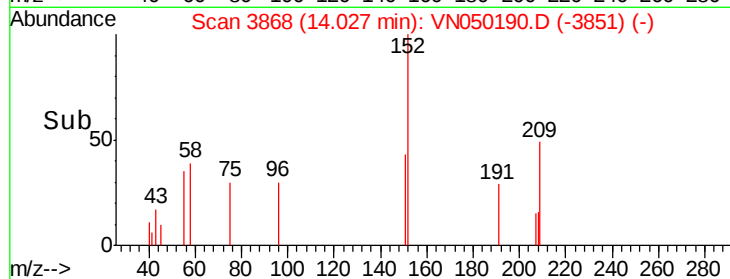
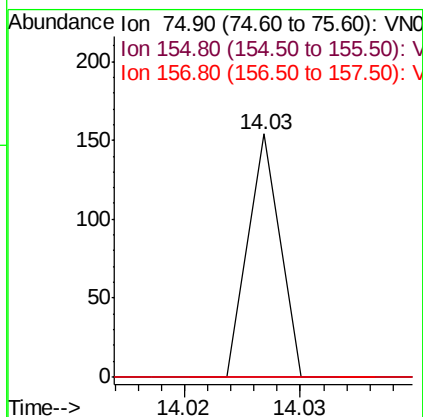
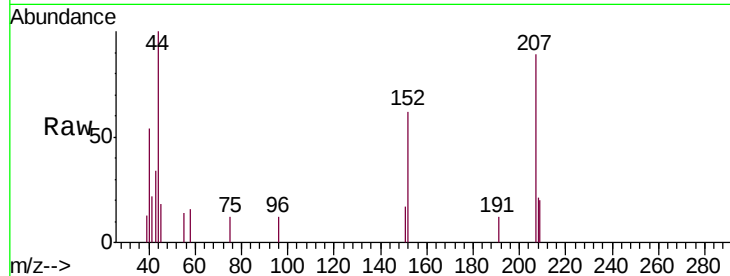




#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.03 min Scan# 3868
 Delta R.T. -0.24 min
 Lab File: VN050190.D
 Acq: 30 Jul 2018 16:23

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-23

Tot Ion: 75 Resp: 30
 Ion Ratio Lower Upper
 75 100
 155 0.0 44.8 134.4#
 157 0.0 57.2 171.6#



#95
 Naphthalene
 Concen: 4.99 ug/l
 RT: 15.14 min Scan# 4213
 Delta R.T. 0.00 min
 Lab File: VN050190.D
 Acq: 30 Jul 2018 16:23

Tgt Ion: 128 Resp: 10160
 Ion Ratio Lower Upper
 128 100
 127 10.7 10.4 15.6
 129 10.6 8.8 13.2

