

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081518\
 Data File : VN050654.D
 Acq On : 15 Aug 2018 14:48
 Operator : MD\SY
 Sample : J4465-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 945-MW-06(17)

Quant Time: Aug 16 01:29:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 08:07:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	633725	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	991129	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	888488	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	316429	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	424254	53.11	ug/l	0.00
Spiked Amount			Recovery	=	106.22%	
35) Dibromofluoromethane	7.59	113	394028	49.80	ug/l	0.00
Spiked Amount			Recovery	=	99.60%	
50) Toluene-d8	10.09	98	1420884	47.71	ug/l	0.00
Spiked Amount			Recovery	=	95.42%	
62) 4-Bromofluorobenzene	12.40	95	399762	40.63	ug/l	0.00
Spiked Amount			Recovery	=	81.26%	

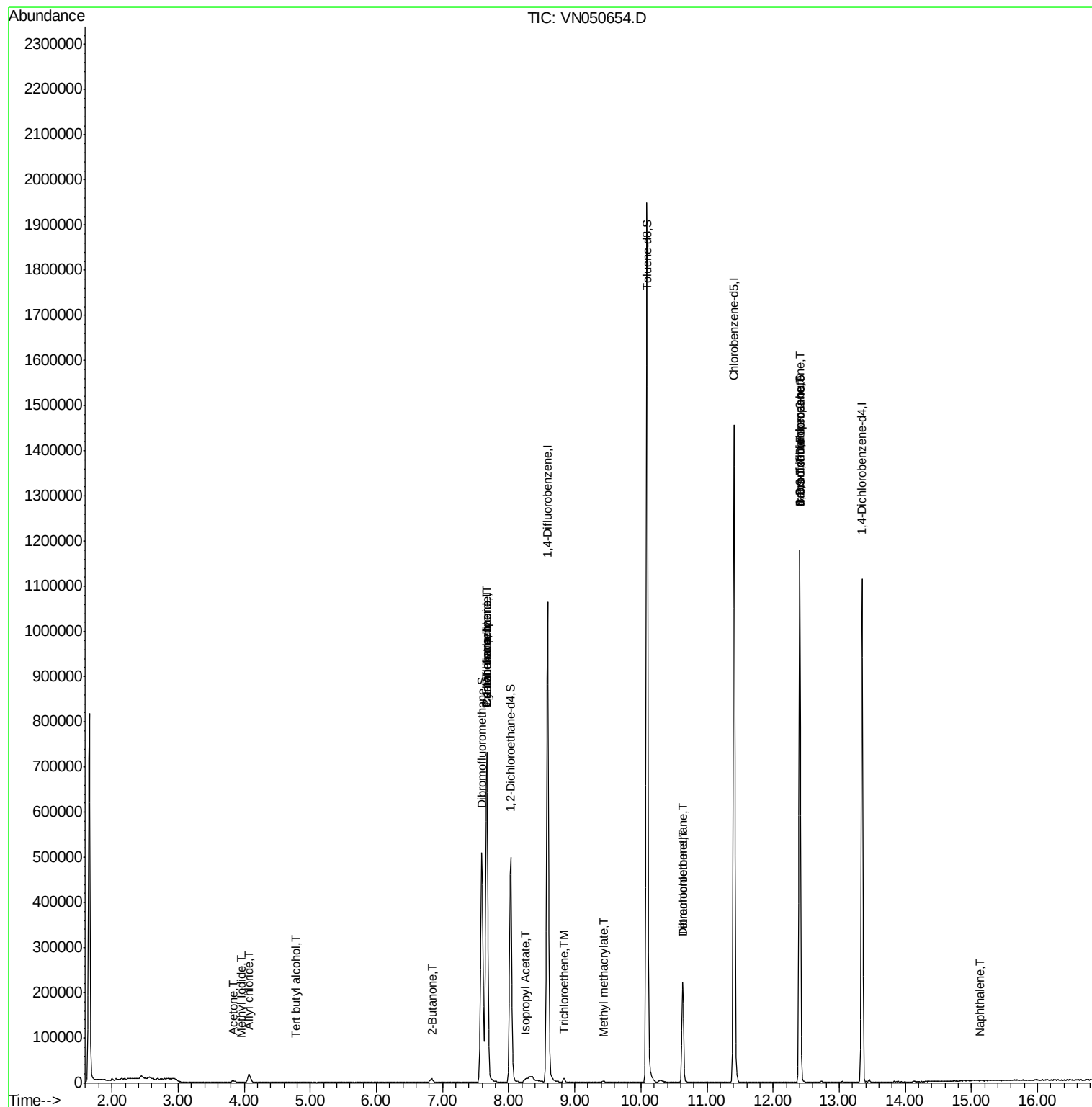
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2652	Below Cal		96
5) Bromomethane	2.57	94	3002	Below Cal	#	80
6) Chloroethane	2.69	64	188	Below Cal	#	43
10) Methyl Iodide	3.95	142	449	7.02	ug/l	# 37
11) Tert butyl alcohol	4.79	59	261	0.60	ug/l	# 72
14) Allyl chloride	4.08	41	2613	0.24	ug/l	# 38
16) Acetone	3.83	43	9677	3.42	ug/l	92
18) Methyl Acetate	4.33	43	704	Below Cal	#	59
20) Methylene Chloride	4.55	84	1400	Below Cal	#	78
25) 2-Butanone	6.86	43	1311	0.40	ug/l	90
31) Cyclohexane	7.67	56	11735	0.63	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	45113	4.09	ug/l	# 48
38) Carbon Tetrachloride	7.67	117	58258	5.09	ug/l	# 17
43) Isopropyl Acetate	8.24	43	2464	0.22	ug/l	# 60
44) Trichloroethene	8.83	130	3340	0.37	ug/l	86
48) Methyl methacrylate	9.43	41	1635	0.29	ug/l	# 12
60) Dibromochloromethane	10.63	129	49626	6.01	ug/l	# 10
64) Tetrachloroethene	10.63	164	57852	7.01	ug/l	98
71) Bromoform	12.40	173	2332	0.42	ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	12.41	83	61	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	188591	36.61	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	188591	132.50	ug/l	# 13
95) Naphthalene	15.13	128	360	3.89	ug/l	# 69

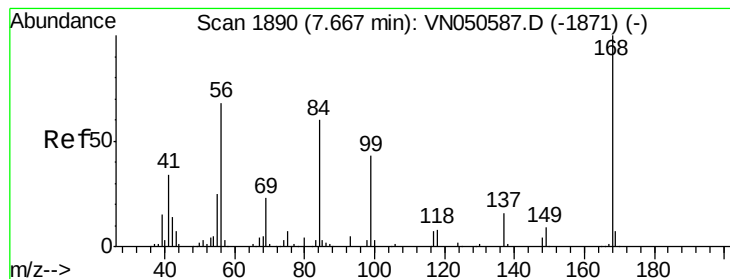
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Aug 14 08:07:08 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: VN050654.D

Acq: 15 Aug 2018 14:48

Instrument :

MSVOA_N

ClientSampleId :

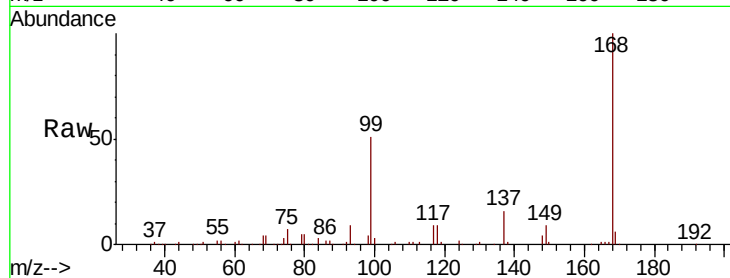
945-MW-06(17)

Tot Ion:168 Resp: 633725

Ion Ratio Lower Upper

168 100

99 50.8 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): VN050587.D (-1871) (-)

Ion 98.90 (98.60 to 99.60): VN050587.D (-1871) (-)

7.67

250000

200000

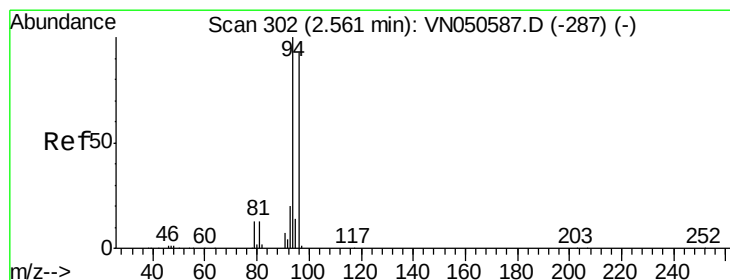
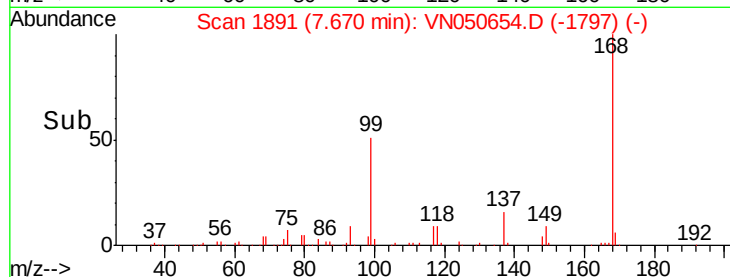
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050654.D

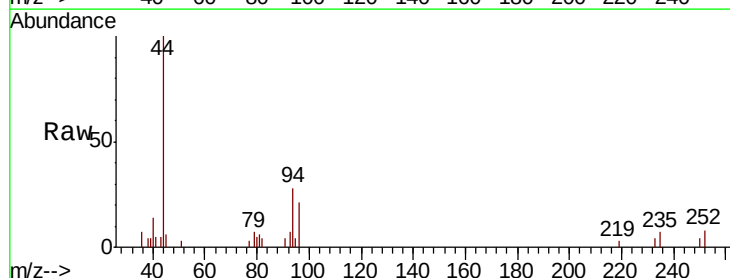
Acq: 15 Aug 2018 14:48

Tgt Ion: 94 Resp: 3002

Ion Ratio Lower Upper

94 100

96 73.6 74.0 111.0#



Abundance Ion 93.90 (93.60 to 94.60): VN050587.D (-287) (-)

Ion 95.90 (95.60 to 96.60): VN050587.D (-287) (-)

2.57

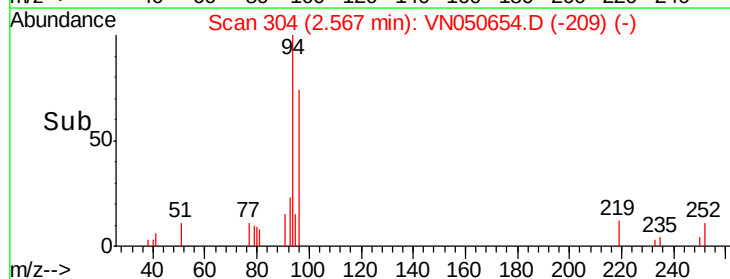
1500

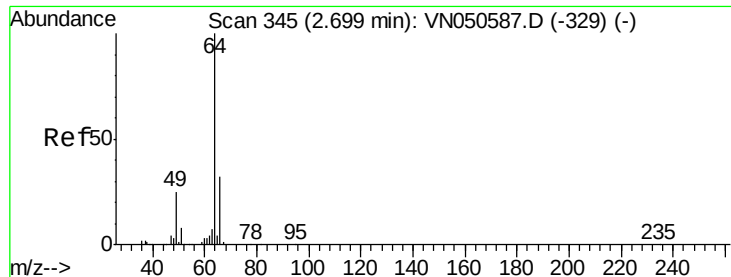
1000

500

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 2.69 min Scan# 343

Delta R.T. -0.01 min

Lab File: VN050654.D

Acq: 15 Aug 2018 14:48

Instrument :

MSVOA_N

ClientSampleId :

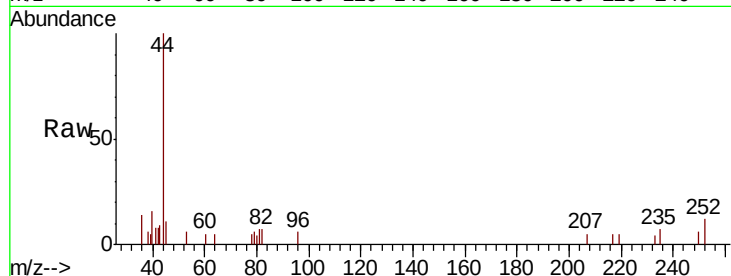
945-MW-06(17)

Tot Ion: 64 Resp: 188

Ion Ratio Lower Upper

64 100

66 0.0 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VN050587.D (-329) (-)

Ion 65.90 (65.60 to 66.60): VN050587.D (-329) (-)

250

200

150

100

50

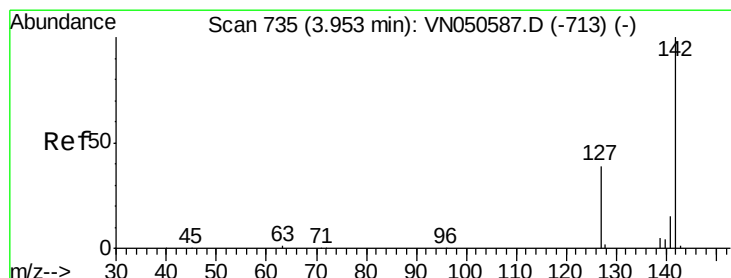
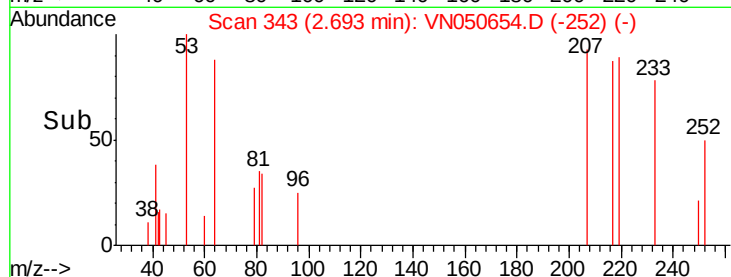
0

2.66

2.68

2.70

Time-->



#10

Methyl Iodide

Concen: 7.02 ug/l

RT: 3.95 min Scan# 734

Delta R.T. -0.00 min

Lab File: VN050654.D

Acq: 15 Aug 2018 14:48

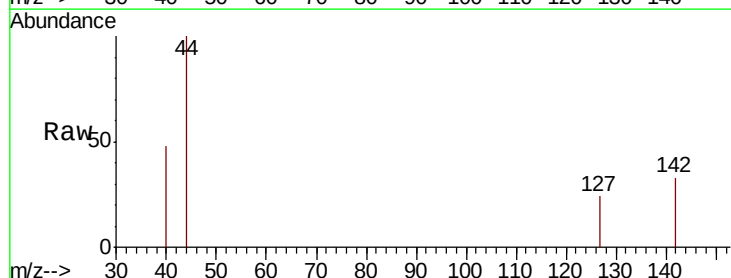
Tgt Ion: 142 Resp: 449

Ion Ratio Lower Upper

142 100

127 86.4 32.6 49.0#

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): VN050587.D (-713) (-)

Ion 126.80 (126.50 to 127.50): VN050587.D (-713) (-)

Ion 140.80 (140.50 to 141.50): VN050587.D (-713) (-)

500

400

300

200

100

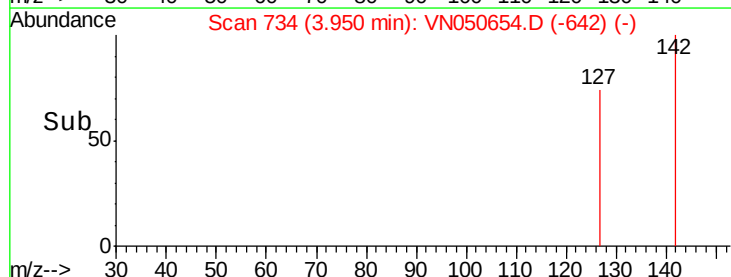
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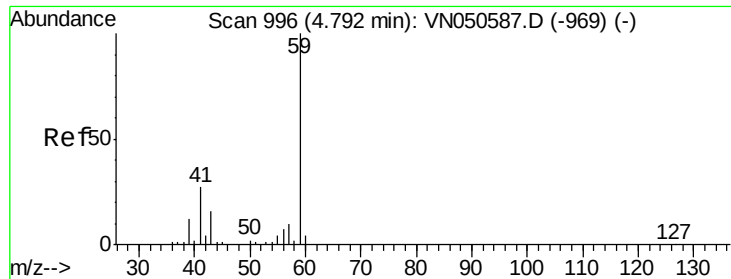
3.92

3.94

3.96

Time-->

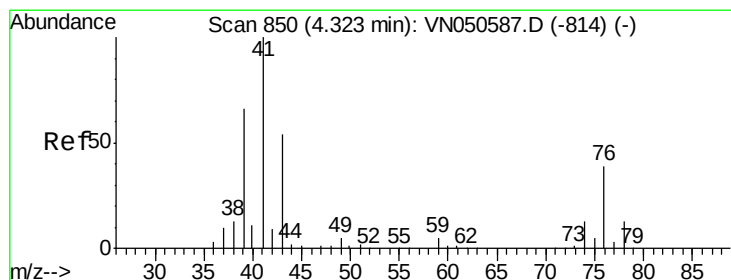
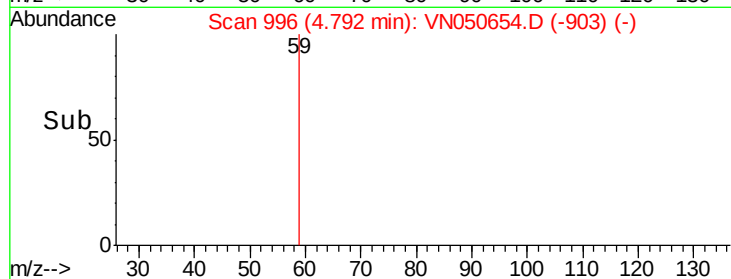
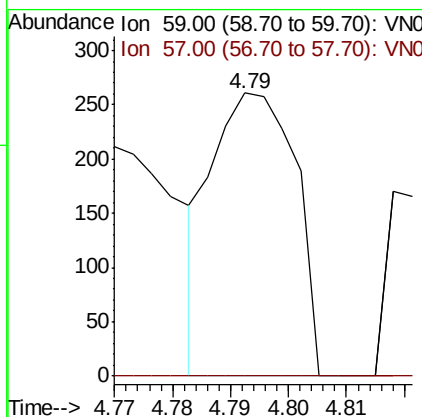
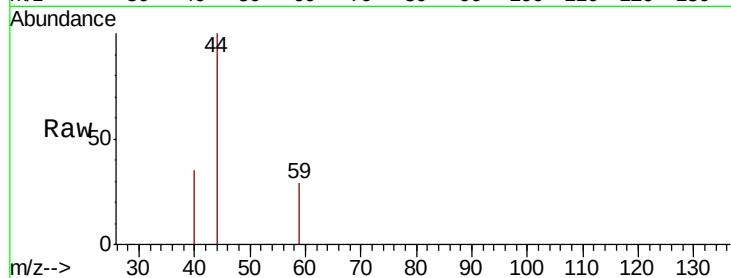




#11
Tert butyl alcohol
Concen: 0.60 ug/l
RT: 4.79 min Scan# 996
Delta R.T. -0.00 min
Lab File: VN050654.D
Acq: 15 Aug 2018 14:48

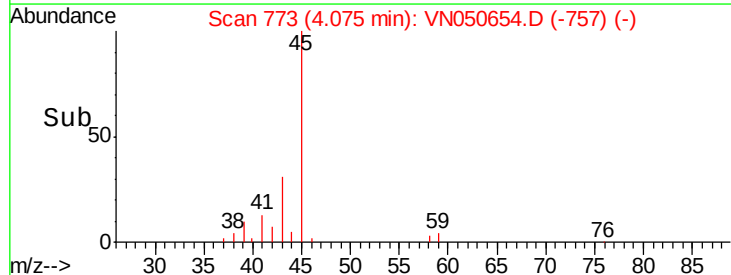
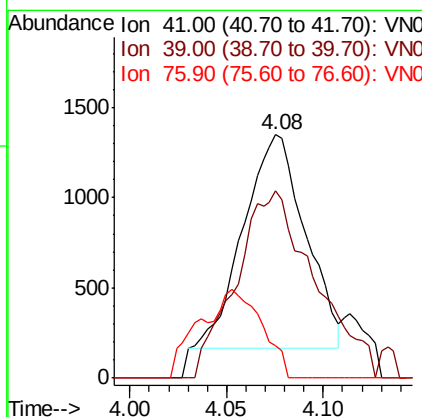
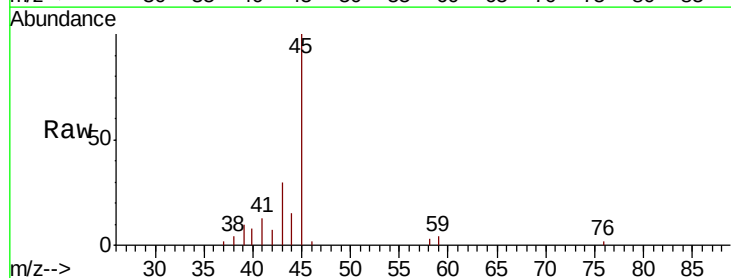
Instrument :
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945-MW-06(17)

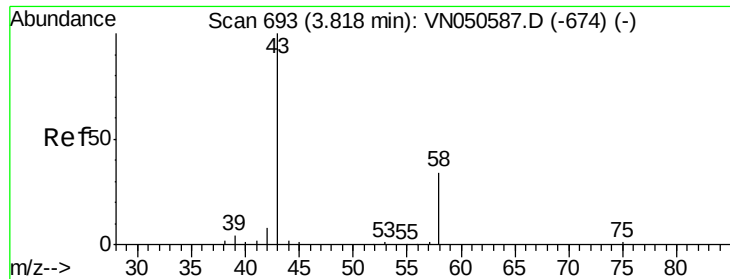
Tot Ion: 59 Resp: 261
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



#14
Allyl chloride
Concen: 0.24 ug/l
RT: 4.08 min Scan# 773
Delta R.T. -0.25 min
Lab File: VN050654.D
Acq: 15 Aug 2018 14:48

Tgt Ion: 41 Resp: 2613
Ion Ratio Lower Upper
41 100
39 112.6 51.4 77.0#
76 0.0 29.4 44.0#





#16

Acetone

Concen: 3.42 ug/l

RT: 3.83 min Scan# 697

Delta R.T. 0.01 min

Lab File: VN050654.D

Acq: 15 Aug 2018 14:48

Instrument :

MSVOA_N

ClientSampleId :

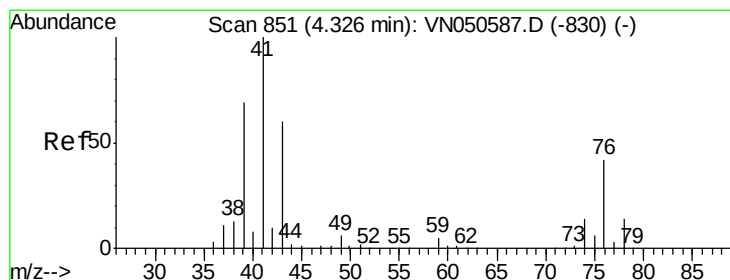
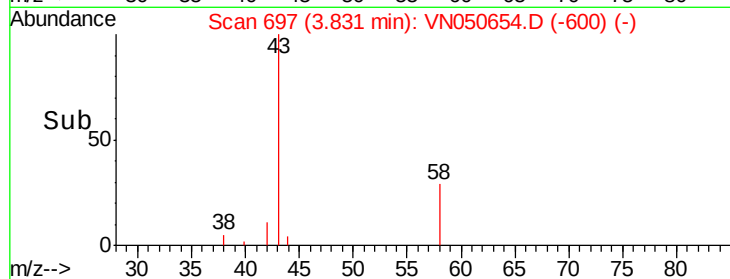
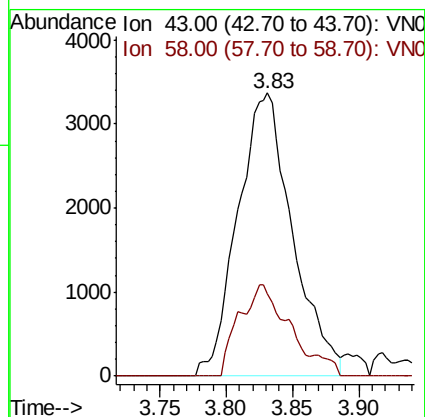
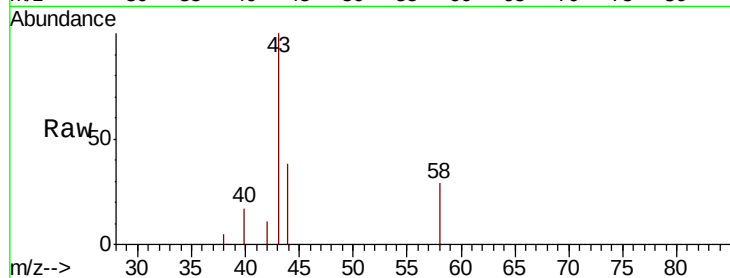
945-MW-06(17)

Tot Ion: 43 Resp: 9677

Ion Ratio Lower Upper

43 100

58 29.3 27.1 40.7



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 851

Delta R.T. 0.00 min

Lab File: VN050654.D

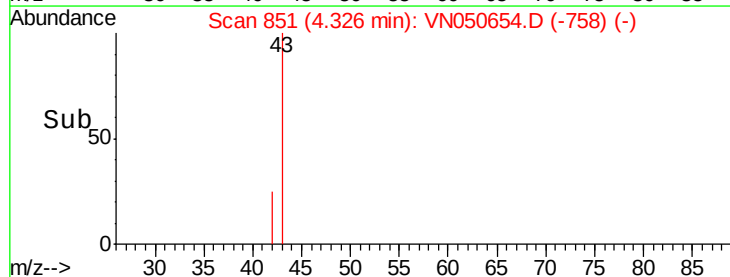
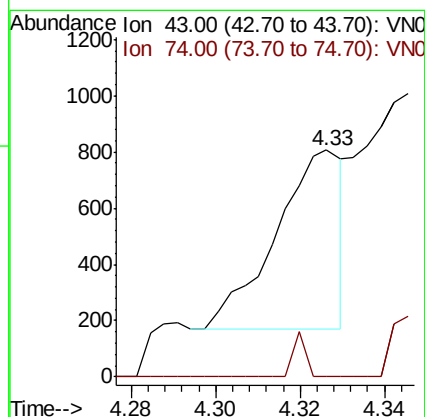
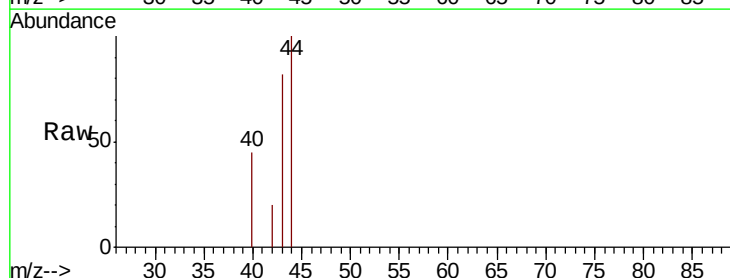
Acq: 15 Aug 2018 14:48

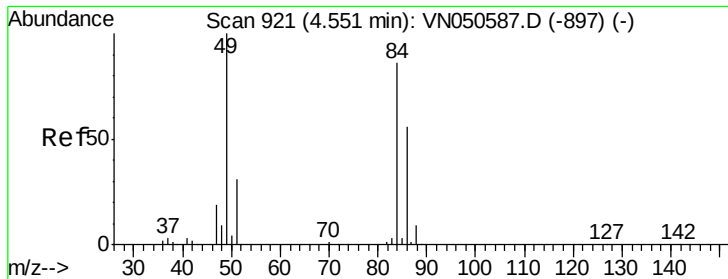
Tgt Ion: 43 Resp: 704

Ion Ratio Lower Upper

43 100

74 4.4 19.7 29.5#

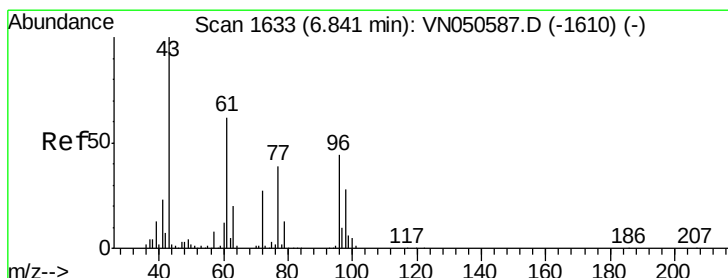
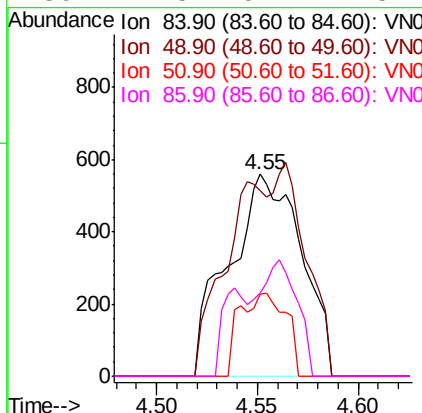
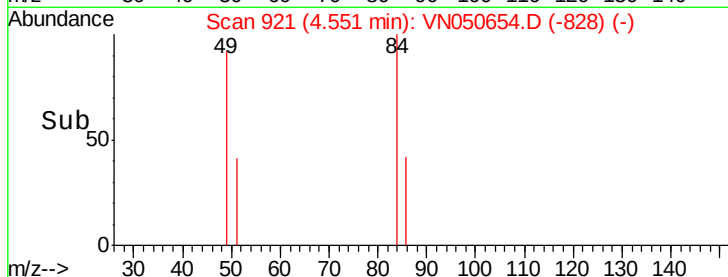
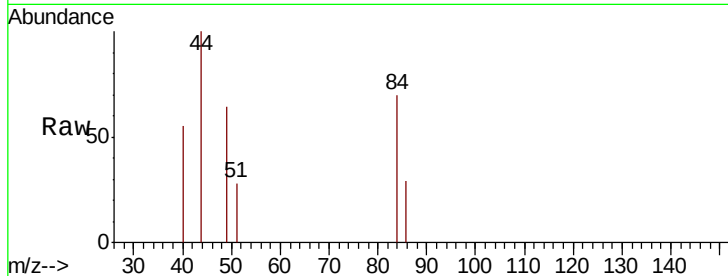




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050654.D
Acq: 15 Aug 2018 14:48

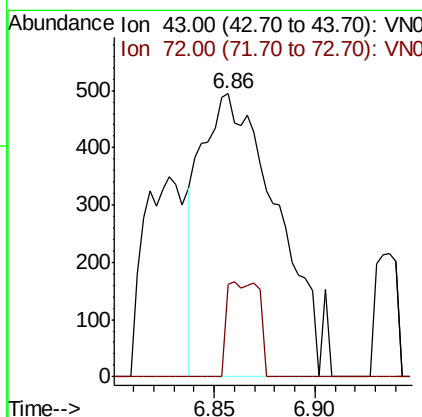
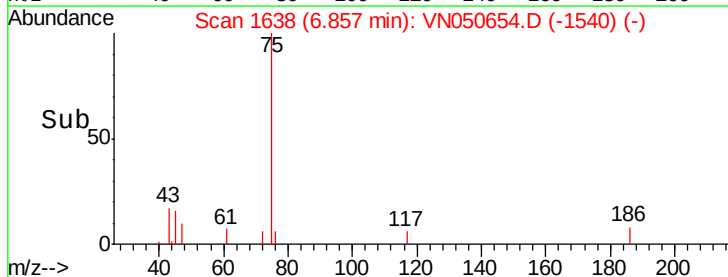
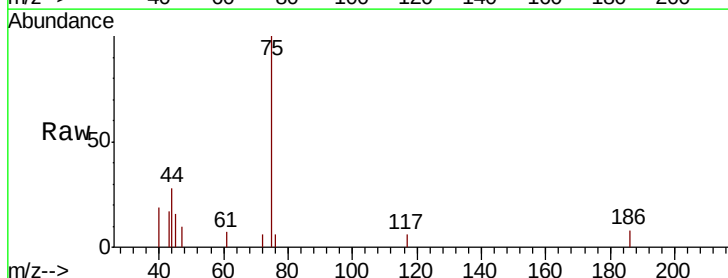
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945-MW-06(17)

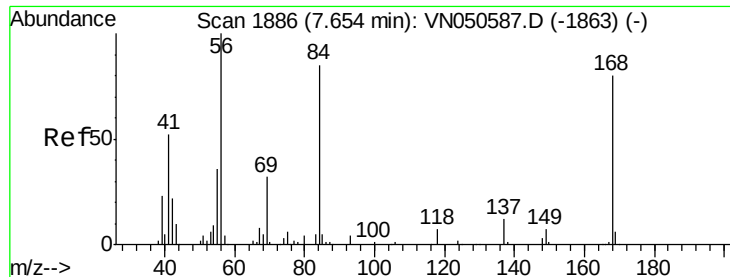
Tot Ion: 84 Resp: 1400
Ion Ratio Lower Upper
84 100
49 91.8 92.6 138.8#
51 40.6 28.6 43.0
86 41.5 52.2 78.2#



#25
2-Butanone
Concen: 0.40 ug/l
RT: 6.86 min Scan# 1638
Delta R.T. 0.02 min
Lab File: VN050654.D
Acq: 15 Aug 2018 14:48

Tgt Ion: 43 Resp: 1311
Ion Ratio Lower Upper
43 100
72 32.6 21.8 32.6

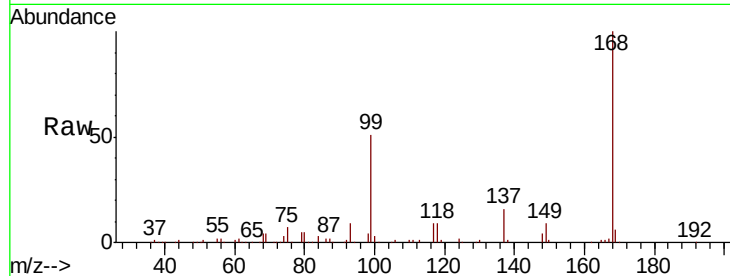




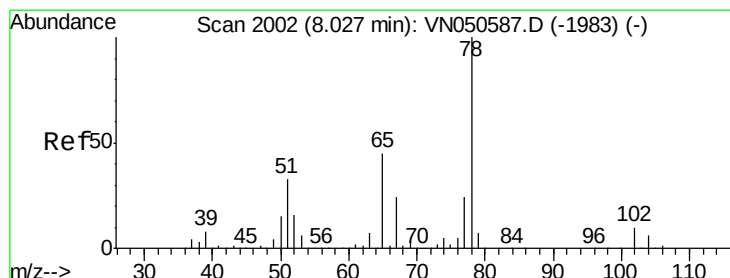
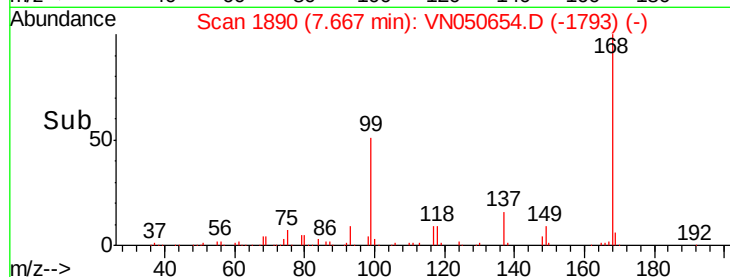
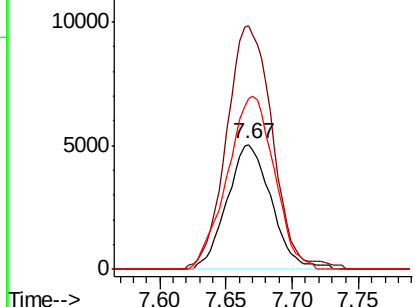
#31
Cyclohexane
Concen: 0.63 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN050654.D
Acq: 15 Aug 2018 14:48

Instrument :
MSVOA_N
ClientSampled :
945-MW-06(17)

Tot Ion: 56 Resp: 11735
Ion Ratio Lower Upper
56 100
69 191.5 25.8 38.6#
84 136.1 67.8 101.6#

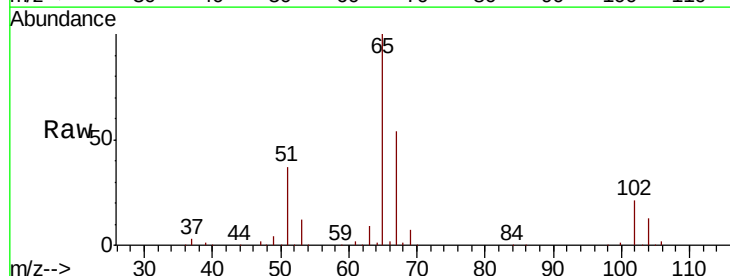


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

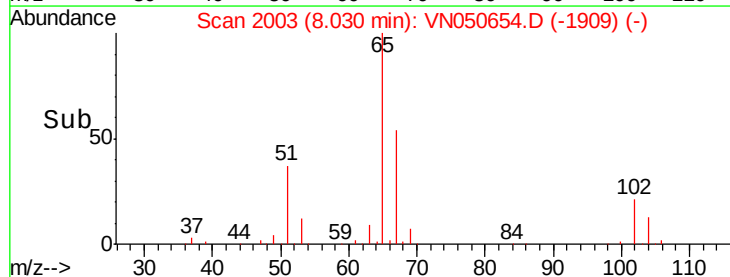
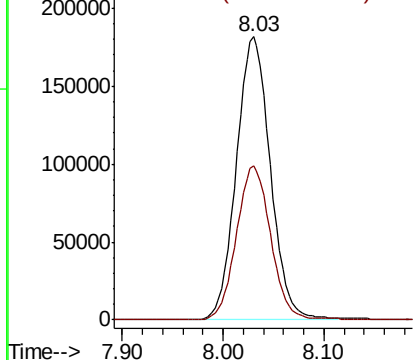


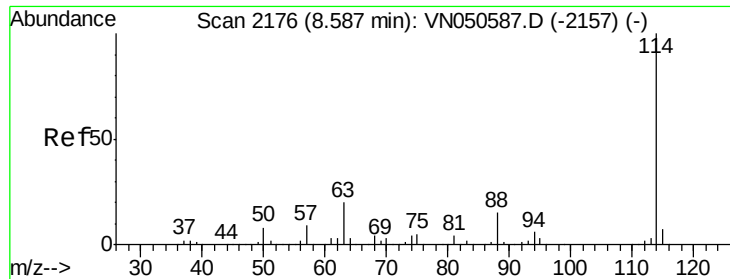
#33
1,2-Dichloroethane-d4
Concen: 53.11 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN050654.D
Acq: 15 Aug 2018 14:48

Tgt Ion: 65 Resp: 424254
Ion Ratio Lower Upper
65 100
67 55.1 0.0 109.8



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

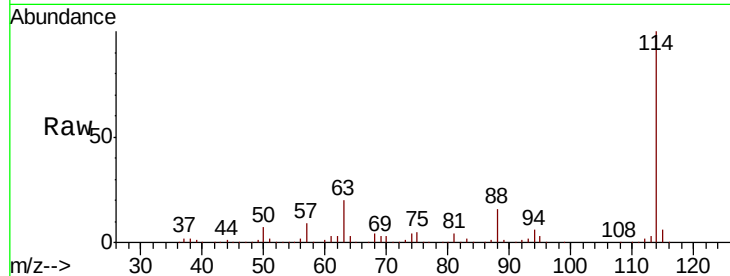




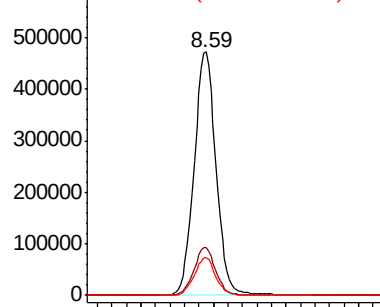
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050654.D
 Acq: 15 Aug 2018 14:48

Instrument :
 MSVOA_N
 ClientSampleId :
 945-MW-06(17)

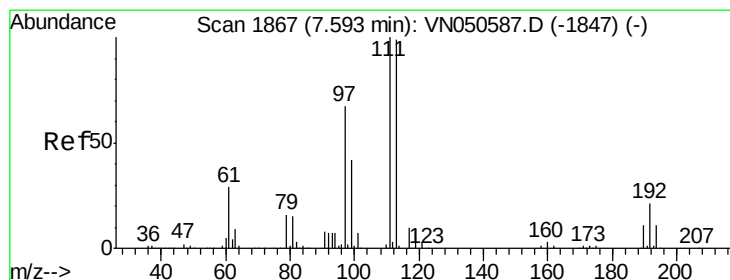
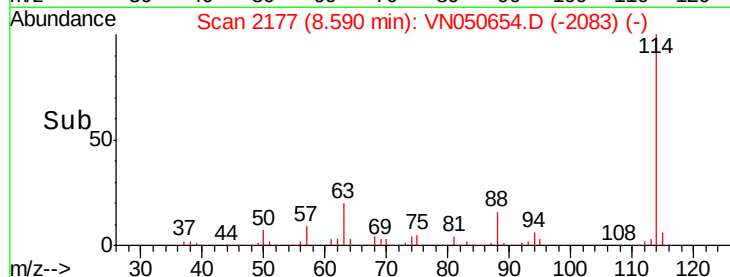
Tot Ion:114 Resp: 991129
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 40.0
 88 15.5 0.0 30.8



Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

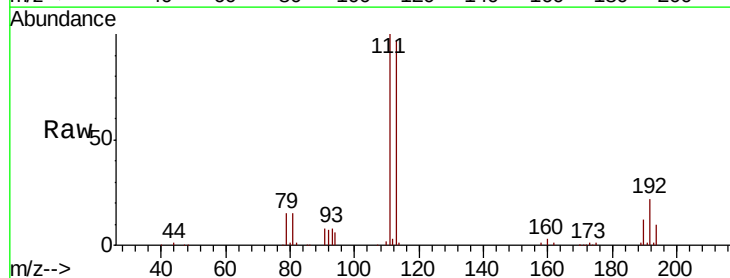


Time-->

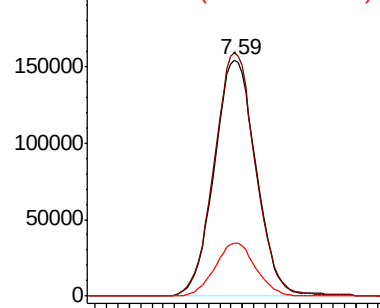


#35
 Dibromofluoromethane
 Concen: 49.80 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050654.D
 Acq: 15 Aug 2018 14:48

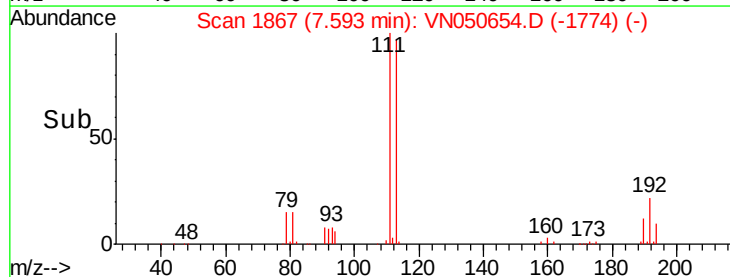
Tgt Ion:113 Resp: 394028
 Ion Ratio Lower Upper
 113 100
 111 103.0 81.0 121.6
 192 22.3 17.6 26.4

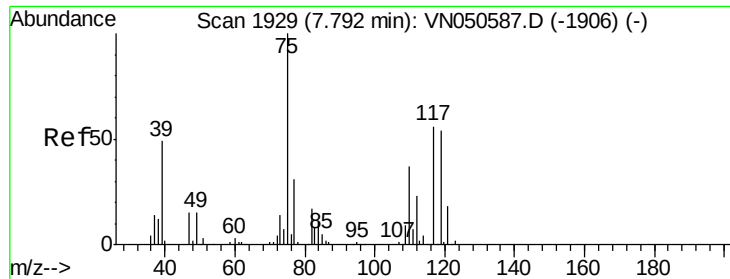


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V



Time-->

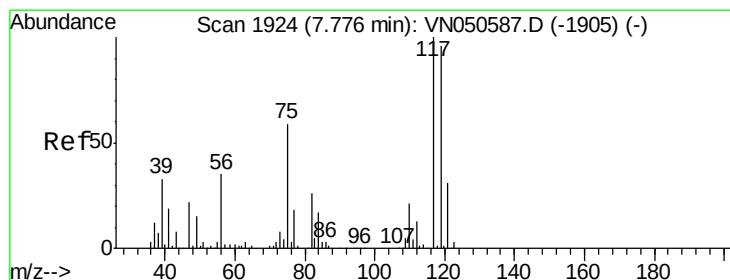
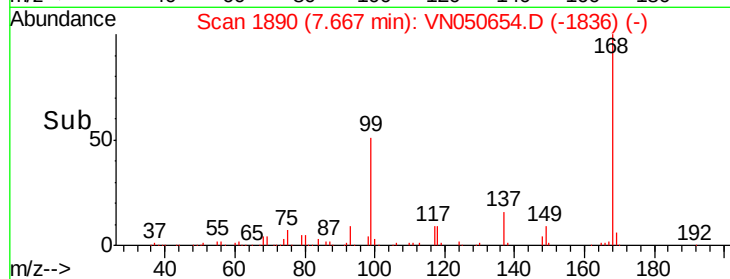
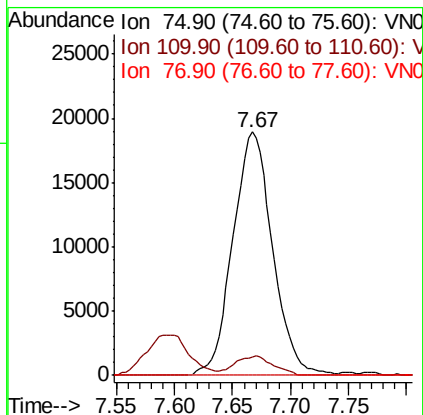
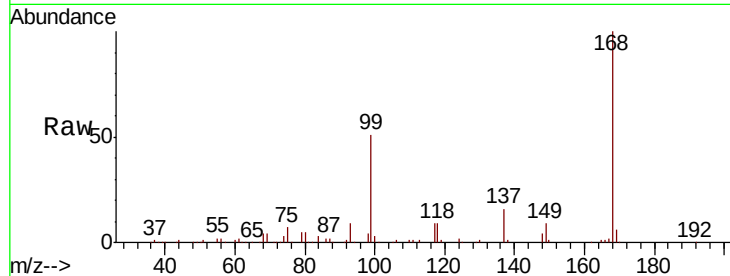




#36
 1,1-Dichloropropene
 Concen: 4.09 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050654.D
 Acq: 15 Aug 2018 14:48

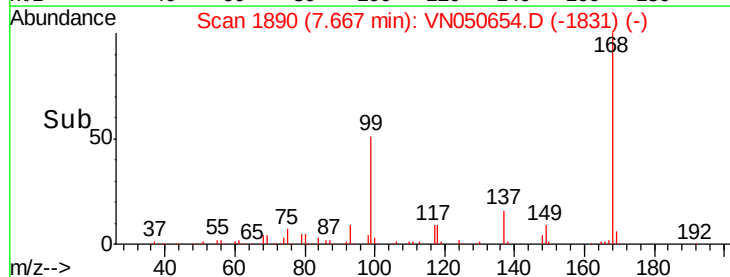
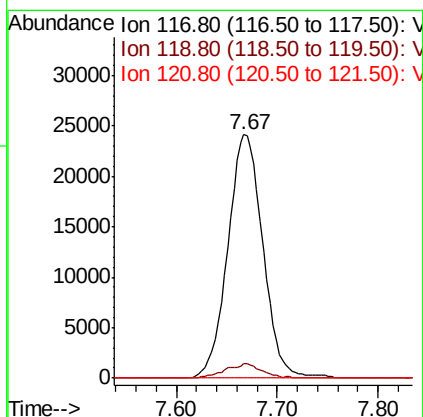
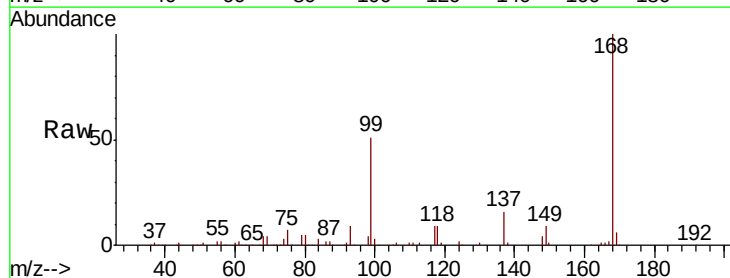
Instrument :
 MSVOA_N
 ClientSampleId :
 945-MW-06(17)

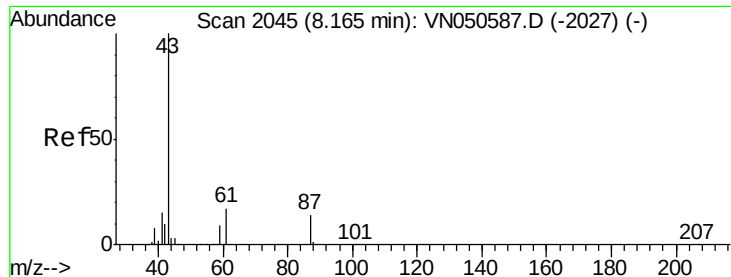
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.7	18.3	54.9#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.09 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN050654.D
 Acq: 15 Aug 2018 14:48

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.9	76.6	115.0#
121	0.0	25.0	37.6#





#43

Isopropyl Acetate

Concen: 0.22 ug/l

RT: 8.24 min Scan# 2068

Delta R.T. 0.07 min

Lab File: VN050654.D

Acq: 15 Aug 2018 14:48

Instrument :

MSVOA_N

ClientSampleId :

945-MW-06(17)

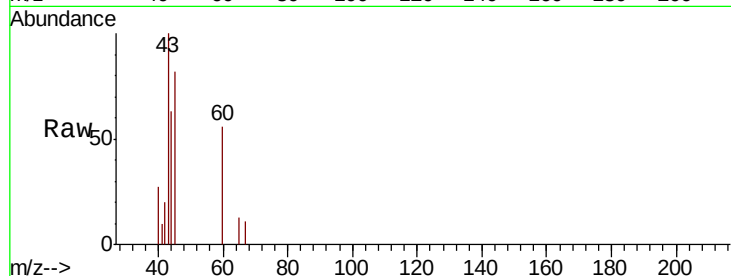
Tot Ion: 43 Resp: 2464

Ion Ratio Lower Upper

43 100

61 0.0 16.2 24.2#

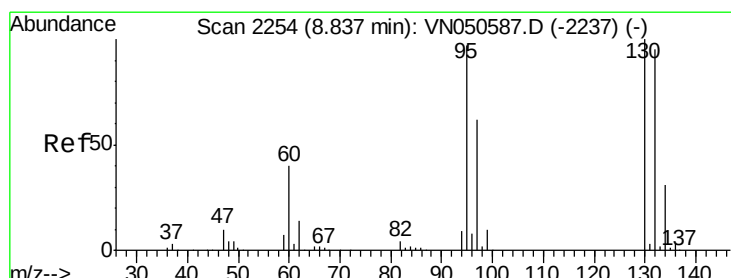
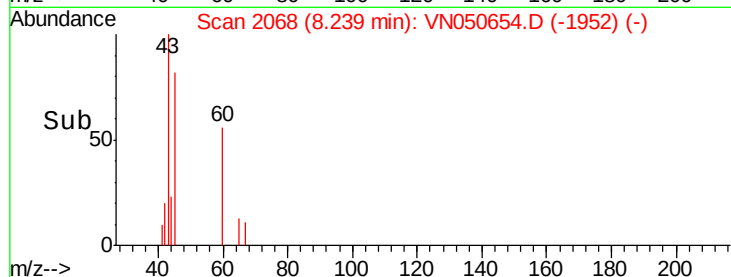
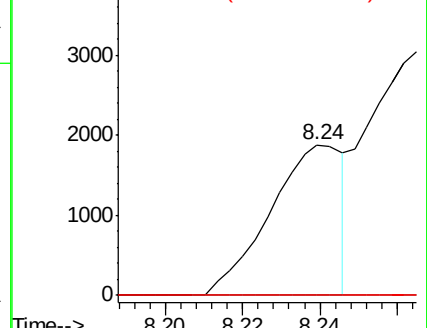
87 0.0 10.9 16.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#44

Trichloroethene

Concen: 0.37 ug/l

RT: 8.83 min Scan# 2253

Delta R.T. -0.00 min

Lab File: VN050654.D

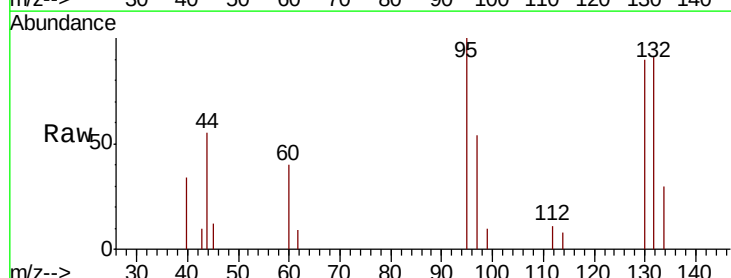
Acq: 15 Aug 2018 14:48

Tgt Ion: 130 Resp: 3340

Ion Ratio Lower Upper

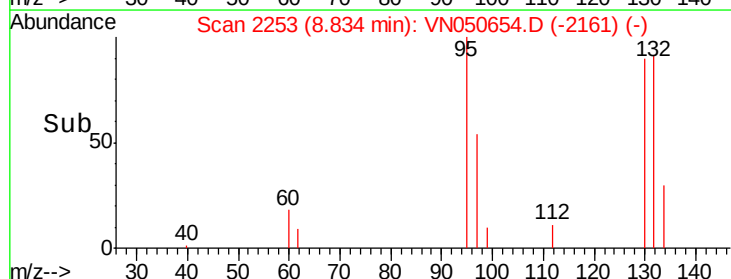
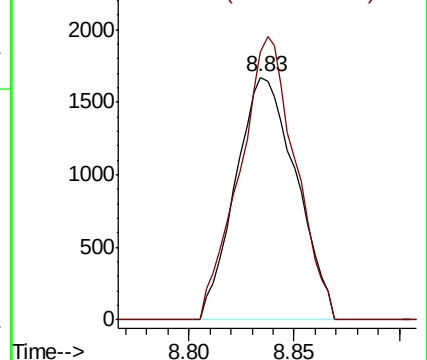
130 100

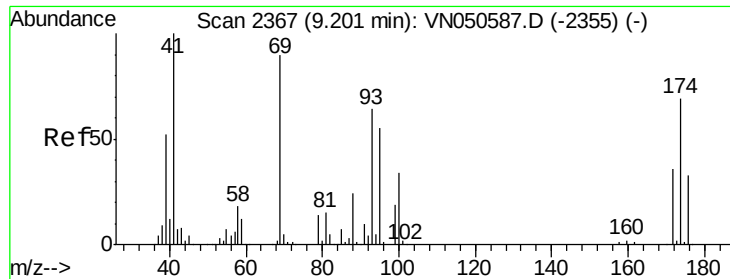
95 110.5 0.0 193.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0

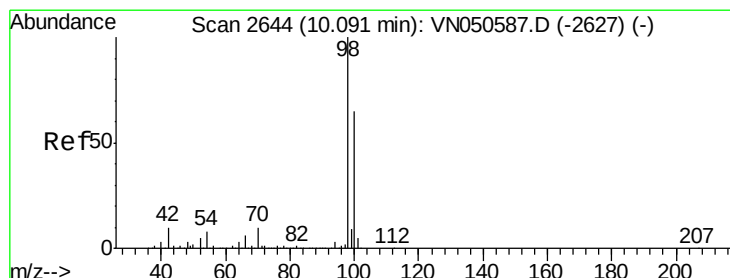
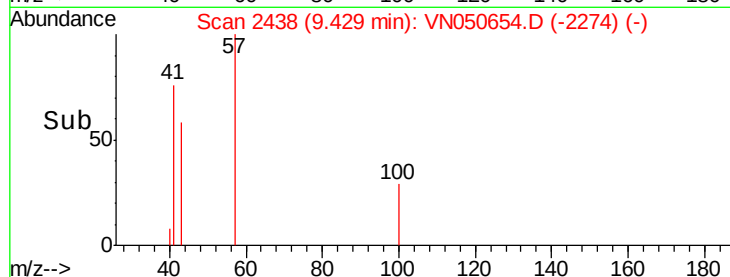
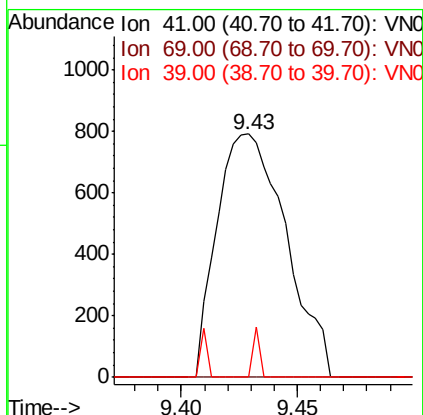
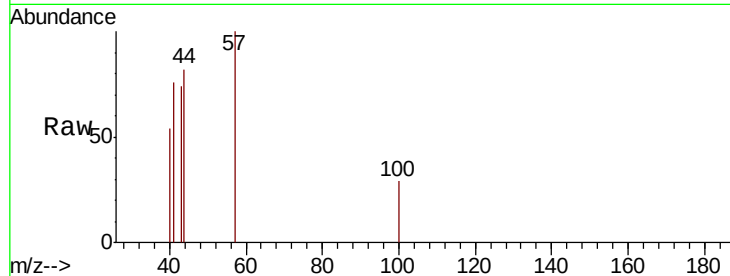




#48
Methvl methacrylate
Concen: 0.29 ug/l
RT: 9.43 min Scan# 2438
Delta R.T. 0.23 min
Lab File: VN050654.D
Acq: 15 Aug 2018 14:48

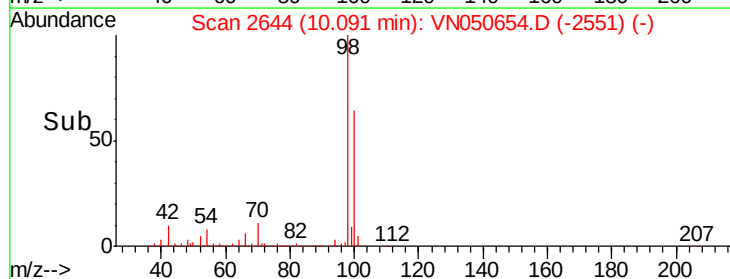
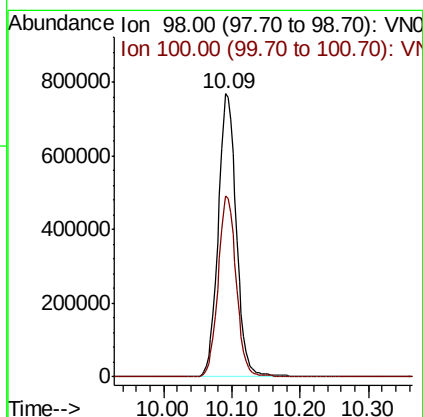
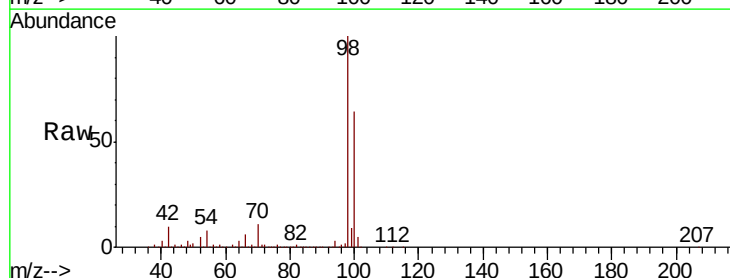
Instrument :
MSVOA_N
ClientSampleId :
945-MW-06(17)

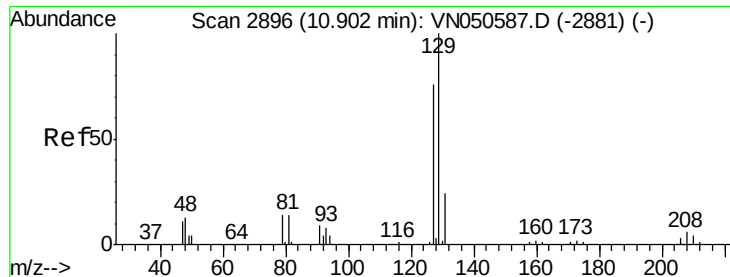
Tot Ion: 41 Resp: 1635
Ion Ratio Lower Upper
41 100
69 0.0 73.4 110.0#
39 2.0 43.0 64.6#



#50
Toluene-d8
Concen: 47.71 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050654.D
Acq: 15 Aug 2018 14:48

Tgt Ion: 98 Resp: 1420884
Ion Ratio Lower Upper
98 100
100 63.9 51.8 77.8

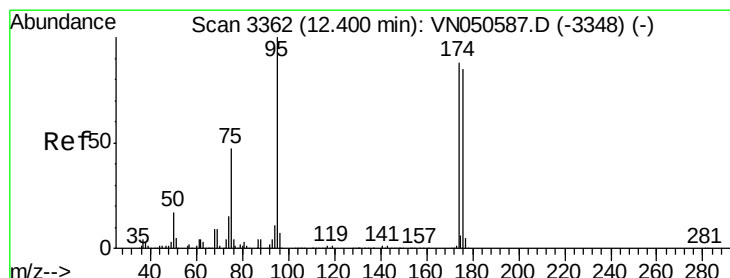
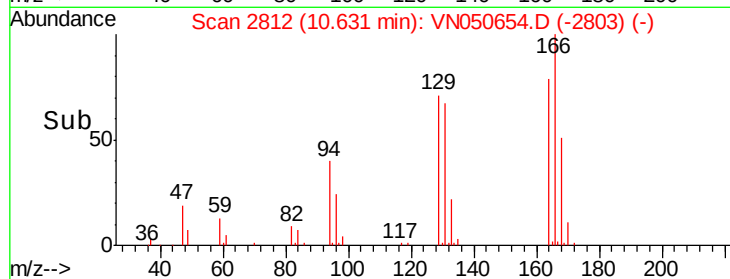
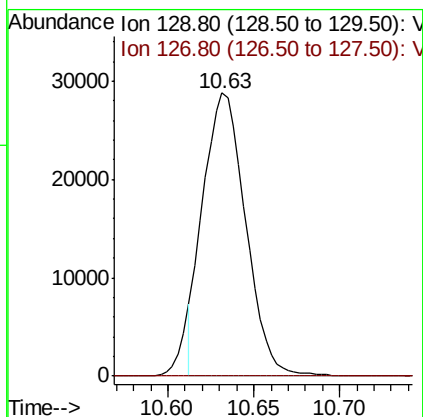
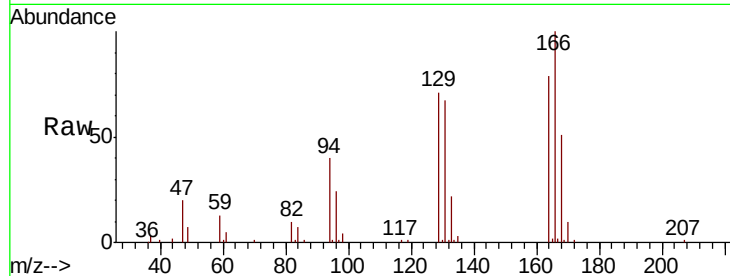




#60
 Dibromochloromethane
 Concen: 6.01 ug/l
 RT: 10.63 min Scan# 2812
 Delta R.T. -0.27 min
 Lab File: VN050654.D
 Acq: 15 Aug 2018 14:48

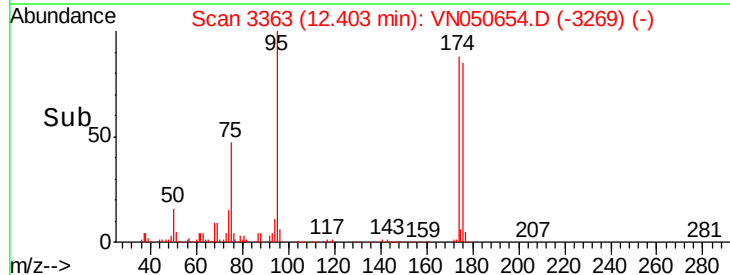
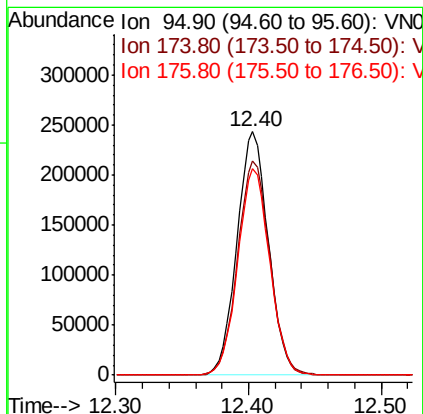
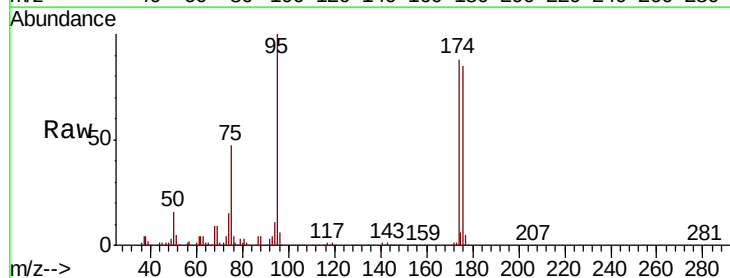
Instrument :
 MSVOA_N
 ClientSampleId :
 945-MW-06(17)

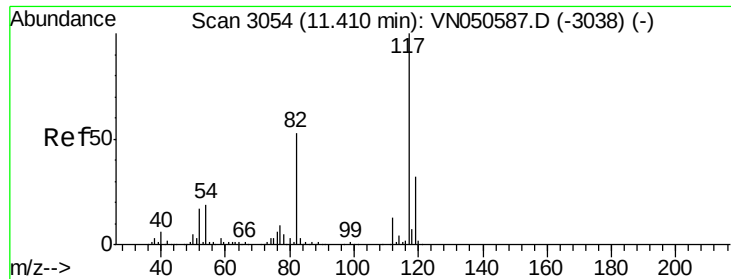
Tot Ion:129 Resp: 49626
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.9 116.7#



#62
 4-Bromofluorobenzene
 Concen: 40.63 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.00 min
 Lab File: VN050654.D
 Acq: 15 Aug 2018 14:48

Tgt Ion: 95 Resp: 399762
 Ion Ratio Lower Upper
 95 100
 174 90.4 0.0 177.8
 176 86.4 0.0 175.0

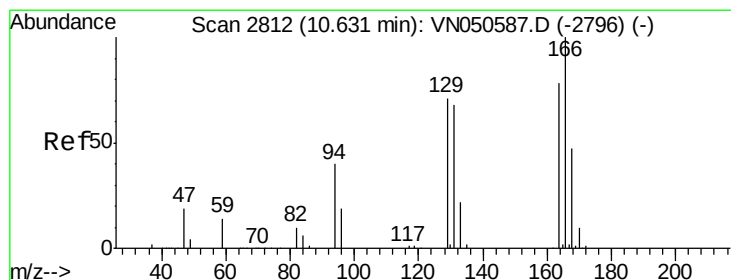
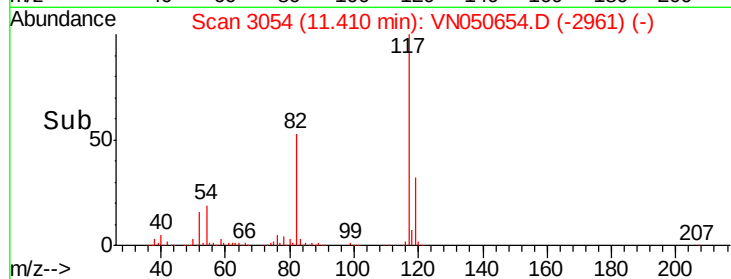
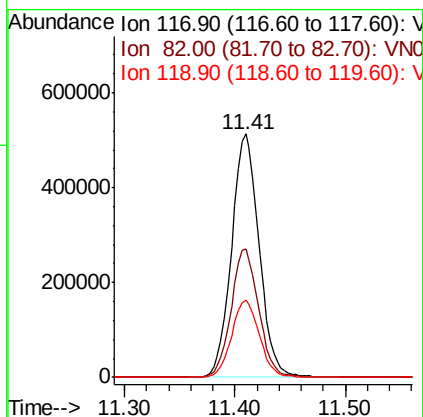
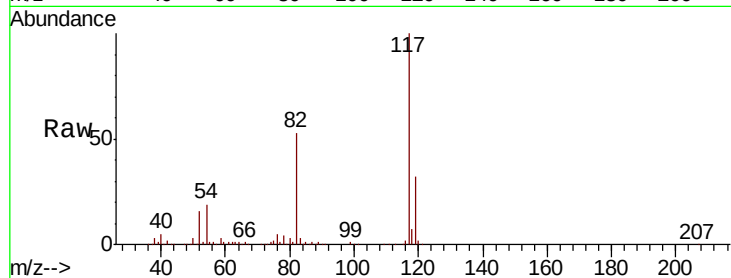




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN050654.D
Acq: 15 Aug 2018 14:48

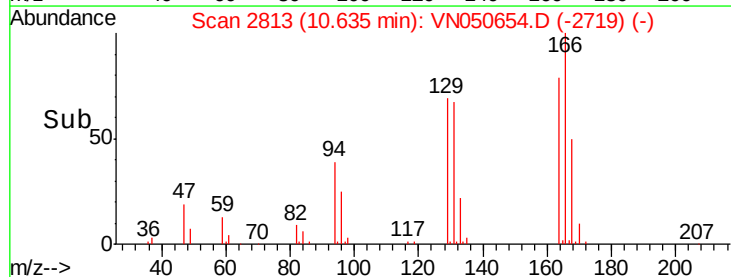
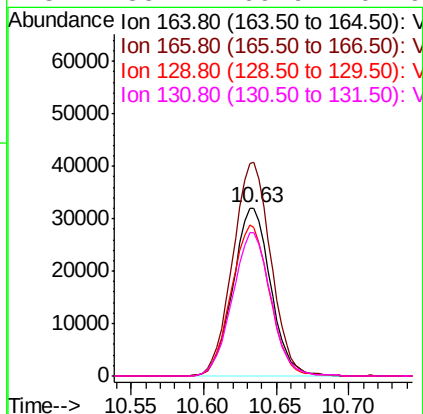
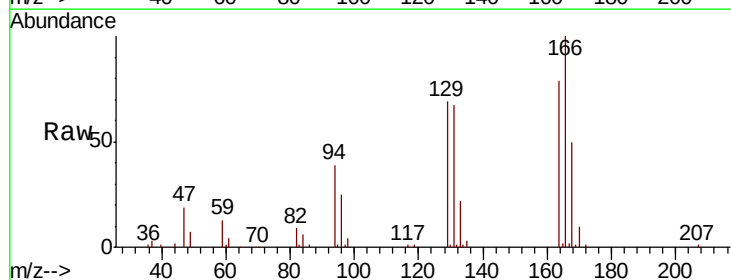
Instrument :
MSVOA_N
ClientSampleId :
945-MW-06(17)

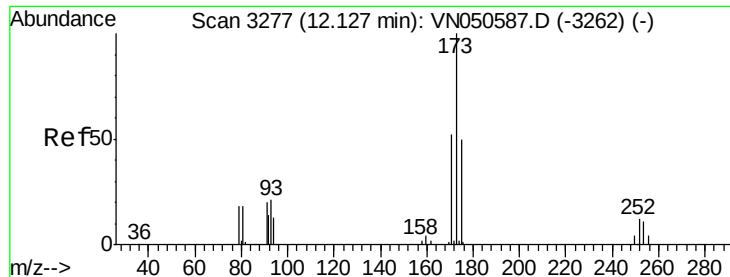
Tot Ion:117 Resp: 888488
Ion Ratio Lower Upper
117 100
82 52.8 42.4 63.6
119 31.8 25.8 38.8



#64
Tetrachloroethene
Concen: 7.01 ug/l
RT: 10.63 min Scan# 2813
Delta R.T. 0.00 min
Lab File: VN050654.D
Acq: 15 Aug 2018 14:48

Tgt Ion:164 Resp: 57852
Ion Ratio Lower Upper
164 100
166 126.9 102.1 153.1
129 88.1 72.7 109.1
131 85.4 69.9 104.9





#71

Bromoform

Concen: 0.42 ug/l

RT: 12.40 min Scan# 3362

Delta R.T. 0.27 min

Lab File: VN050654.D

Acq: 15 Aug 2018 14:48

Instrument :

MSVOA_N

ClientSampleId :

945-MW-06(17)

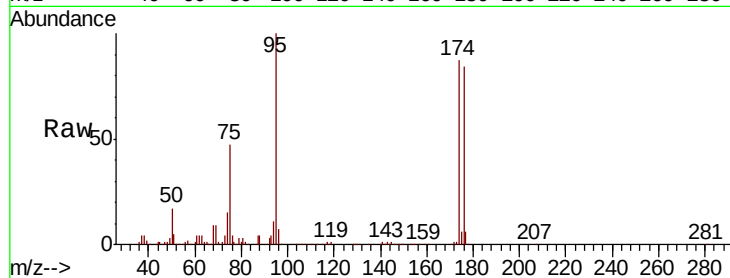
Tot Ion:173 Resp: 2332

Ion Ratio Lower Upper

173 100

175 937.1 24.4 73.2#

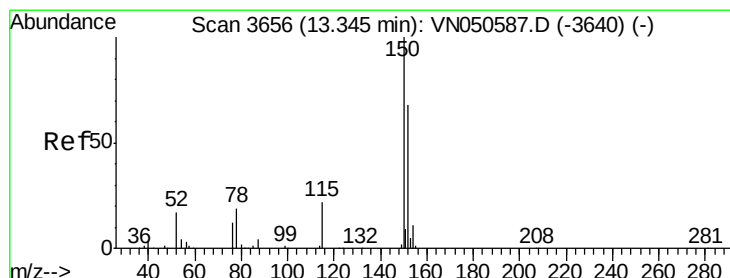
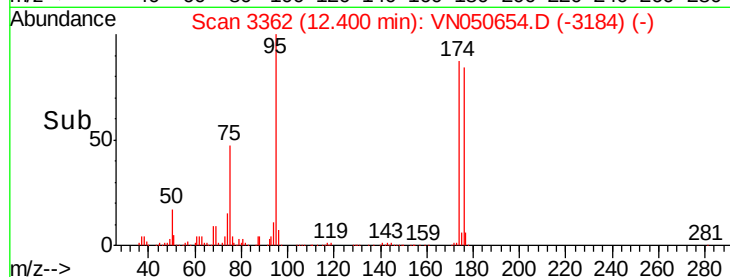
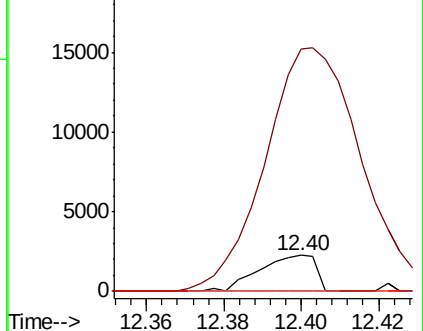
254 0.0 0.0 0.0



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: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN050654.D

Acq: 15 Aug 2018 14:48

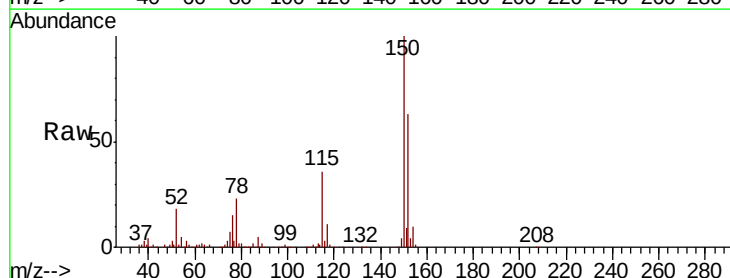
Tgt Ion:152 Resp: 316429

Ion Ratio Lower Upper

152 100

115 57.0 28.1 84.2

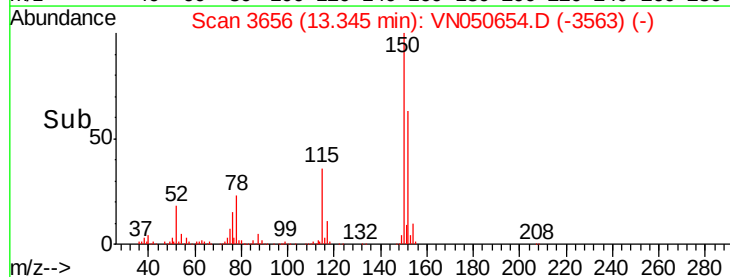
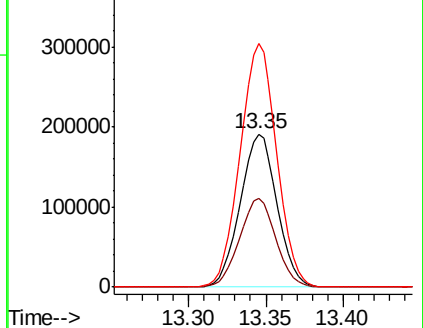
150 158.3 0.0 347.8

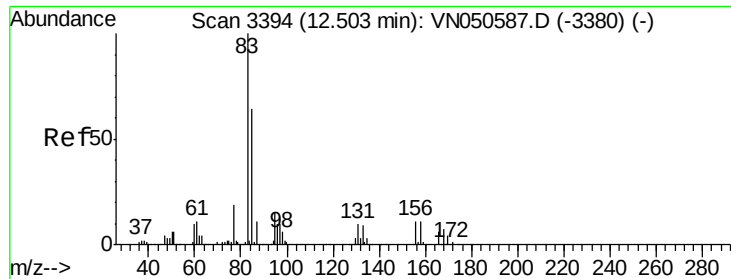


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3366

Delta R.T. -0.09 min

Lab File: VN050654.D

Acq: 15 Aug 2018 14:48

Instrument :

MSVOA_N

ClientSampleId :

945-MW-06(17)

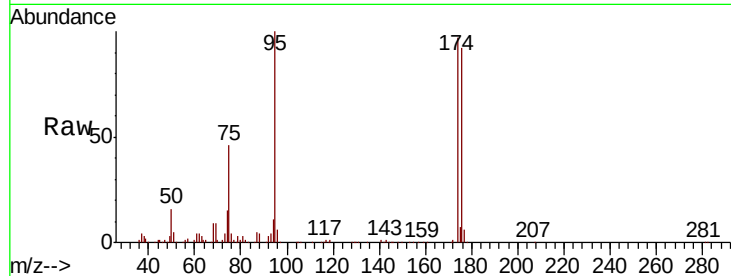
Tot Ion: 83 Resp: 61

Ion Ratio Lower Upper

83 100

131 0.0 5.3 15.9#

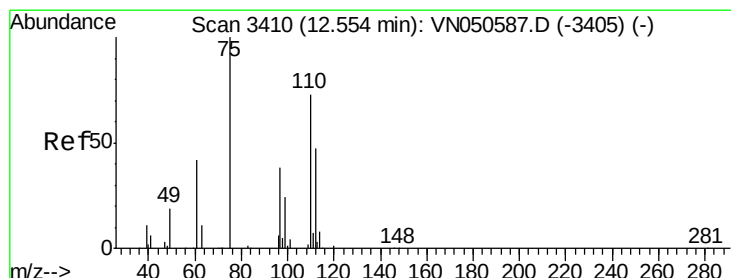
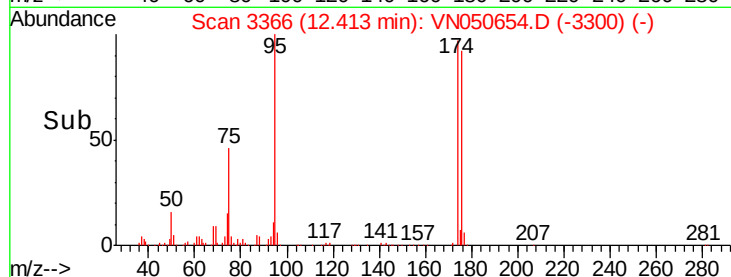
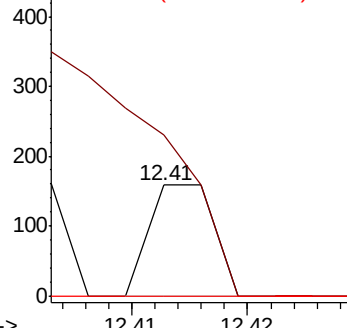
85 0.0 32.1 96.5#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 36.61 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050654.D

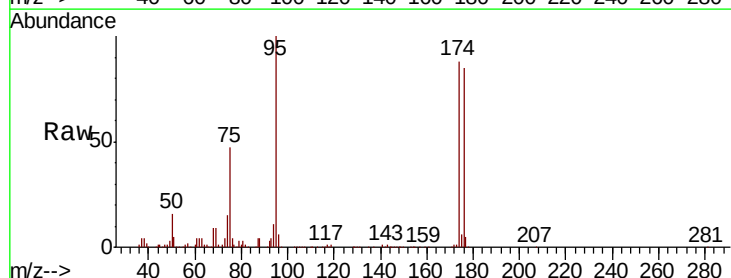
Acq: 15 Aug 2018 14:48

Tgt Ion: 75 Resp: 188591

Ion Ratio Lower Upper

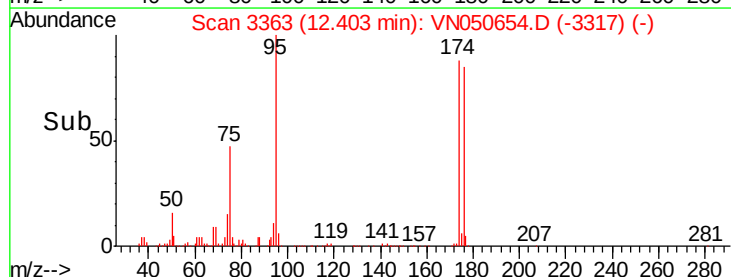
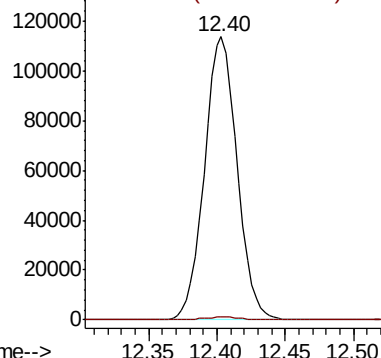
75 100

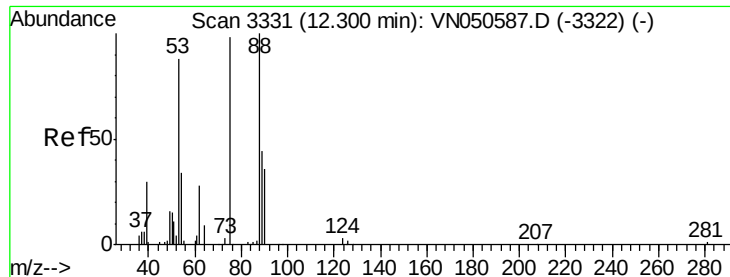
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 132.50 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050654.D

Acq: 15 Aug 2018 14:48

Instrument :

MSVOA_N

ClientSampled :

945-MW-06(17)

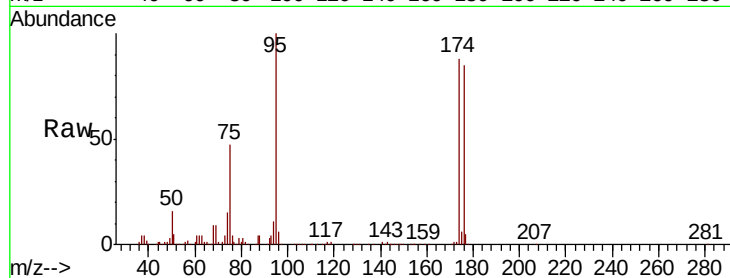
Tot Ion: 75 Resp: 188591

Ion Ratio Lower Upper

75 100

53 0.2 72.2 108.2#

89 0.0 36.3 54.5#

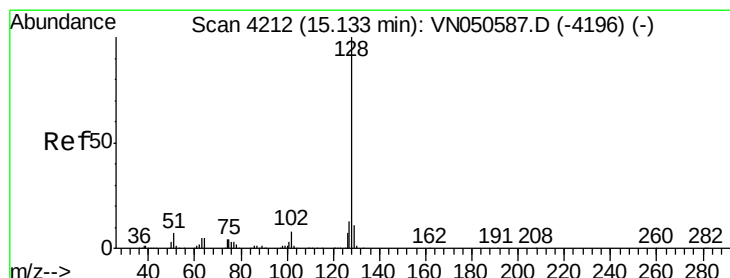
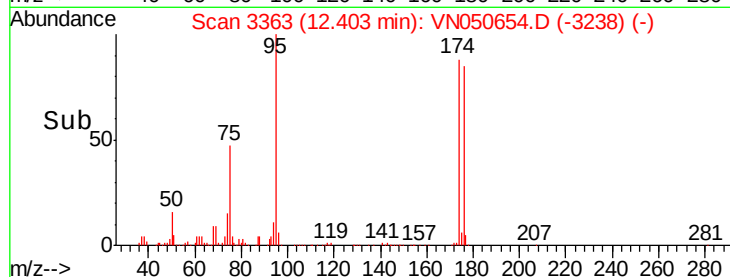
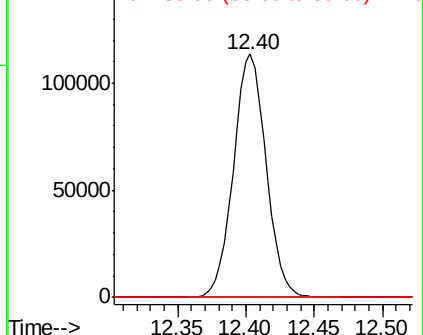


Abundance

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



#95

Naphthalene

Concen: 3.89 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN050654.D

Acq: 15 Aug 2018 14:48

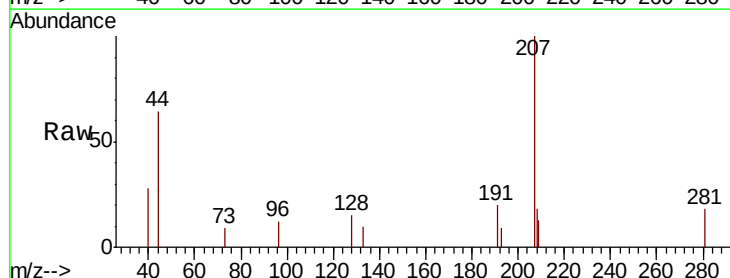
Tgt Ion: 128 Resp: 360

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.5 12.7#



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

