

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072618\
 Data File : VN050108.D
 Acq On : 27 Jul 2018 2:50
 Operator : MD\SY
 Sample : J4163-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-14

Quant Time: Jul 27 04:05:12 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	693406	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1117221	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	941074	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	370589	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	484409	50.07	ug/l	0.00
Spiked Amount			Recovery	=	100.14%	
35) Dibromofluoromethane	7.60	113	424655	46.55	ug/l	0.00
Spiked Amount			Recovery	=	93.10%	
50) Toluene-d8	10.09	98	1528587	45.58	ug/l	0.00
Spiked Amount			Recovery	=	91.16%	
62) 4-Bromofluorobenzene	12.40	95	445131	40.31	ug/l	0.00
Spiked Amount			Recovery	=	80.62%	

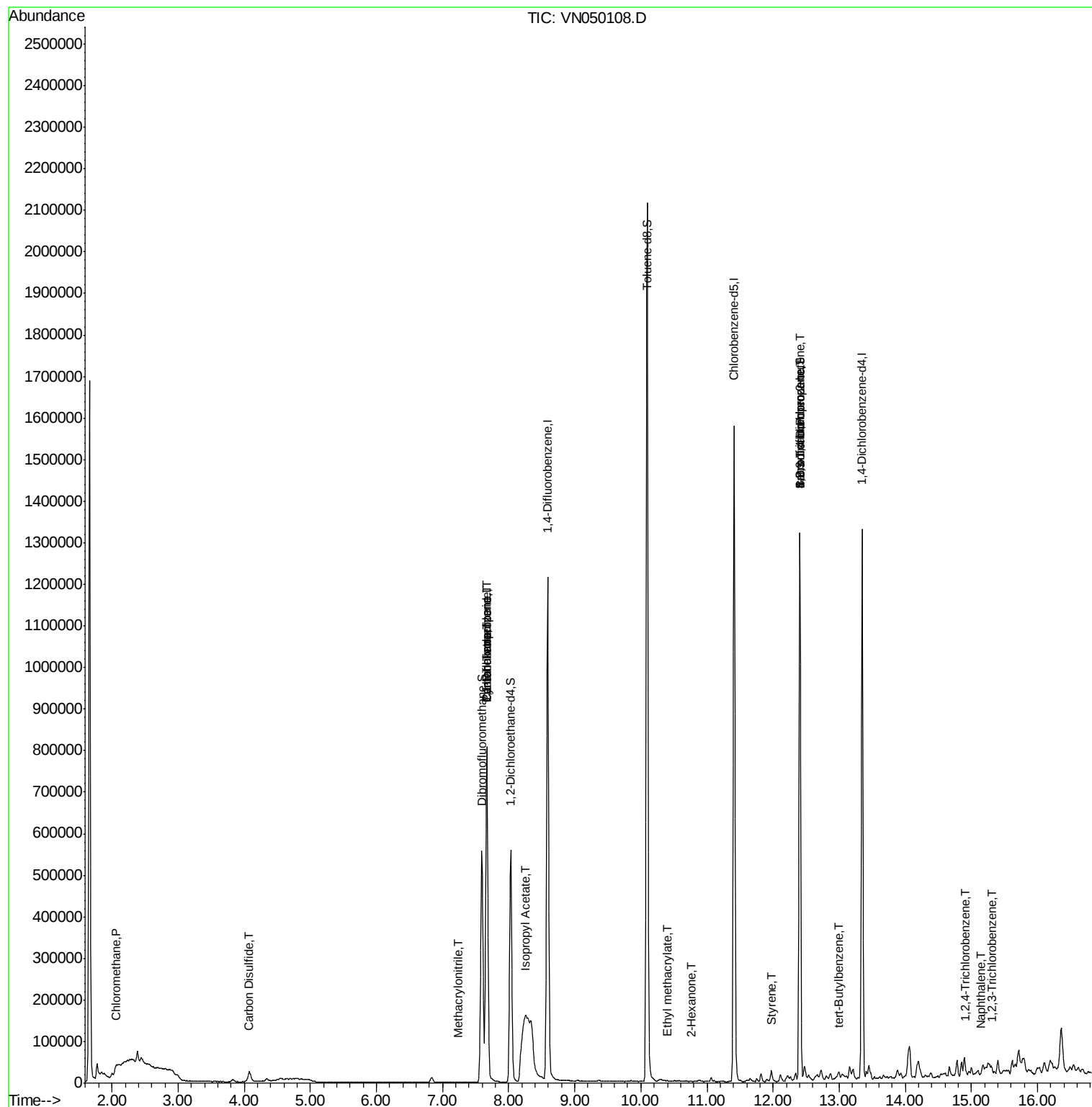
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2371	0.22	ug/l	90
5) Bromomethane	2.57	94	683	Below Cal	#	38
16) Acetone	3.83	43	8883	Below Cal		95
17) Carbon Disulfide	4.05	76	10303	0.42	ug/l	96
18) Methyl Acetate	4.34	43	11583	Below Cal	#	68
20) Methylene Chloride	4.54	84	1062	Below Cal		95
31) Cyclohexane	7.66	56	12708	0.89	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	49130	3.90	ug/l	# 47
38) Carbon Tetrachloride	7.67	117	62959	4.71	ug/l	# 16
41) Methacrylonitrile	7.23	41	103	2.77	ug/l	# 10
43) Isopropyl Acetate	8.24	43	179613	9.95	ug/l	# 62
56) Ethyl methacrylate	10.40	69	568	2.08	ug/l	# 48
59) 2-Hexanone	10.76	43	356	5.23	ug/l	# 24
70) Styrene	11.98	104	65	0.93	ug/l	# 1
71) Bromoform	12.41	173	1927	0.29	ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	12.52	83	99	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	218449	31.72	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	218449	100.61	ug/l	# 13
83) tert-Butylbenzene	13.00	119	4817	0.24	ug/l	93
92) 1,2-Dibromo-3-Chloropropan	14.07	75	526	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.91	180	245	3.12	ug/l	# 34
95) Naphthalene	15.14	128	1258	4.48	ug/l	# 73
96) 1,2,3-Trichlorobenzene	15.32	180	253	2.24	ug/l	# 1

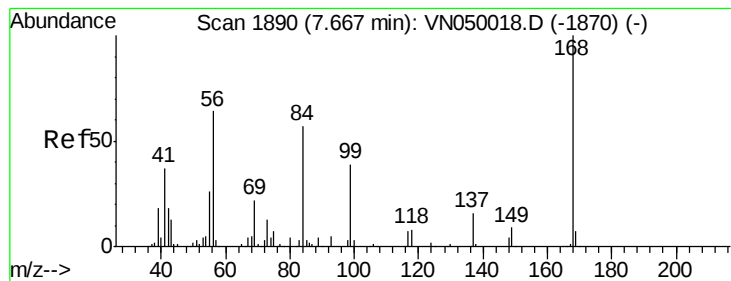
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 27 04:05:12 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
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: VN050108.D

Acq: 27 Jul 2018 2:50

Instrument :

MSVOA_N

ClientSampleId :

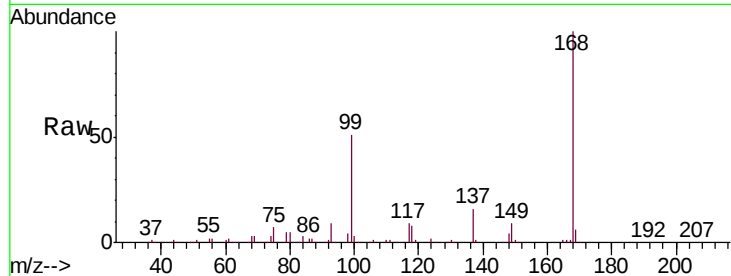
MW-14

Tot Ion:168 Resp: 693406

Ion Ratio Lower Upper

168 100

99 51.4 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

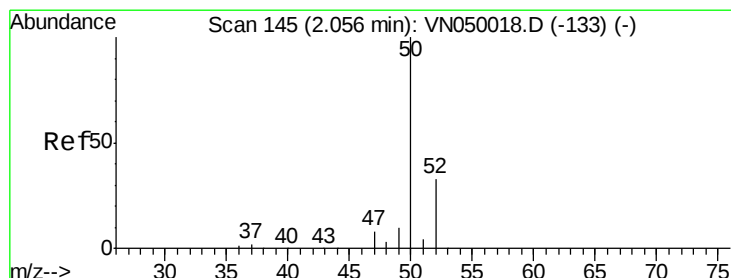
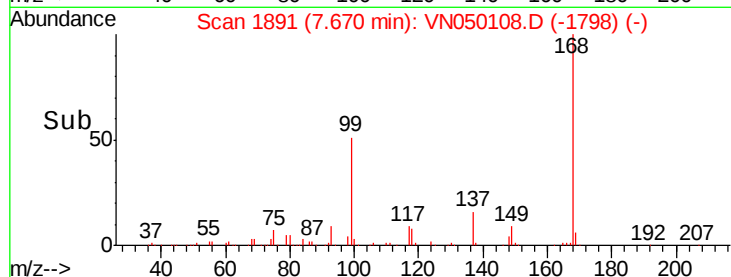
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Time-->

7.60

7.70

7.80



#3

Chloromethane

Concen: 0.22 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050108.D

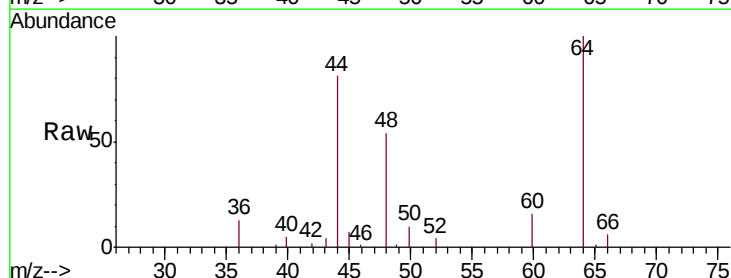
Acq: 27 Jul 2018 2:50

Tgt Ion: 50 Resp: 2371

Ion Ratio Lower Upper

50 100

52 37.9 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.06

1500

1000

500

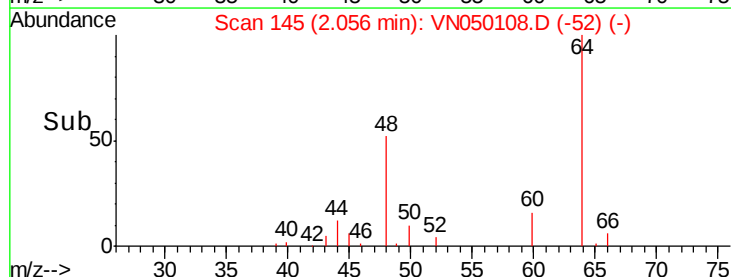
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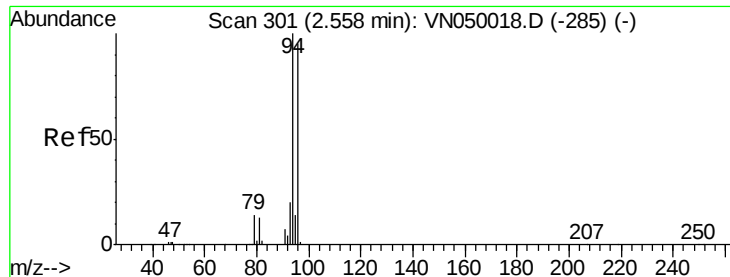
Time-->

2.00

2.05

2.10





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.02 min

Lab File: VN050108.D

Acq: 27 Jul 2018 2:50

Instrument :

MSVOA_N

ClientSampled :

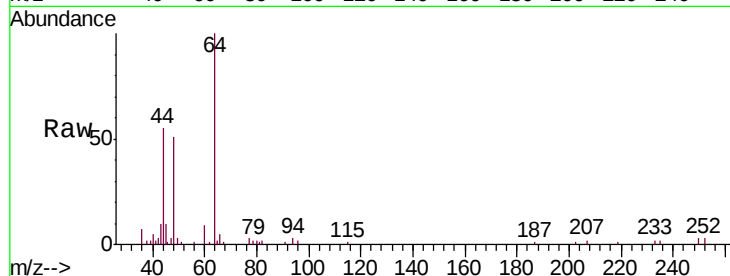
MW-14

Tot Ion: 94 Resp: 683

Ion Ratio Lower Upper

94 100

96 33.6 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.57

400

300

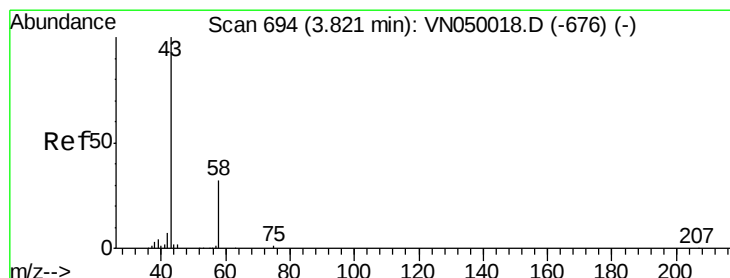
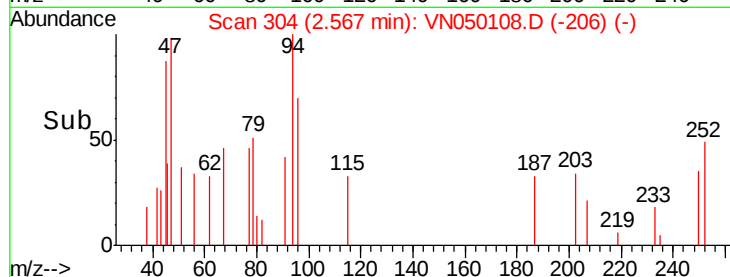
200

100

0

2.54 2.56 2.58 2.60

Time-->



#16

Acetone

Concen: Below Cal

RT: 3.83 min Scan# 697

Delta R.T. 0.01 min

Lab File: VN050108.D

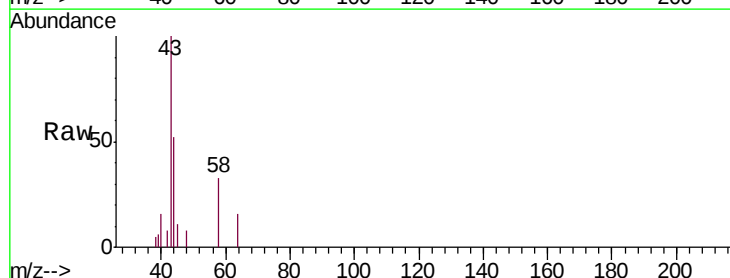
Acq: 27 Jul 2018 2:50

Tgt Ion: 43 Resp: 8883

Ion Ratio Lower Upper

43 100

58 35.1 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.83

3000

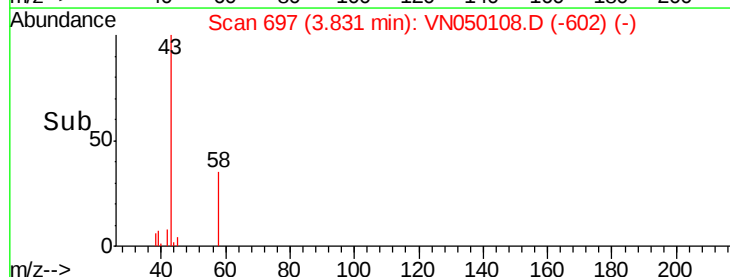
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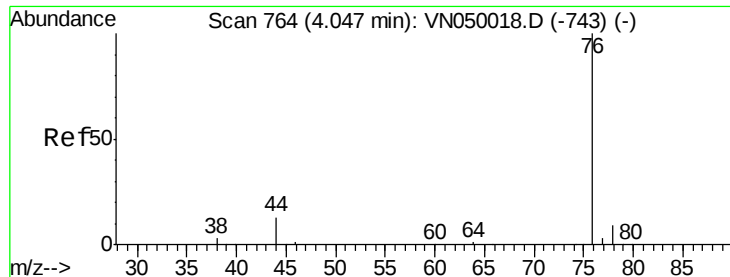
1000

0

3.75 3.80 3.85 3.90

Time-->

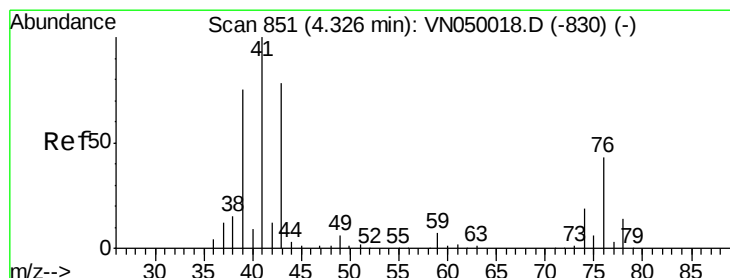
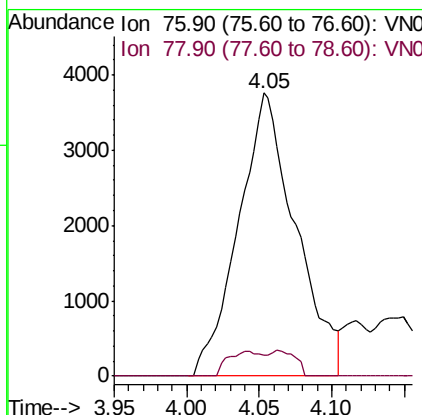
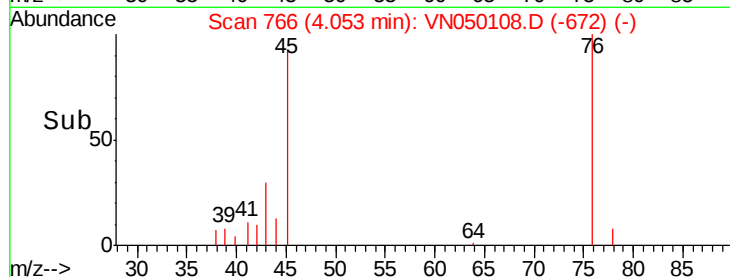
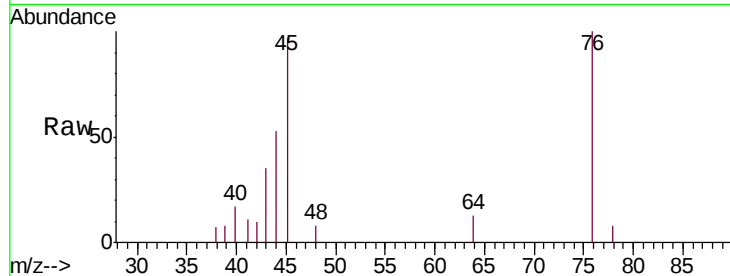




#17
Carbon Disulfide
Concen: 0.42 ug/l
RT: 4.05 min Scan# 766
Delta R.T. 0.00 min
Lab File: VN050108.D
Acq: 27 Jul 2018 2:50

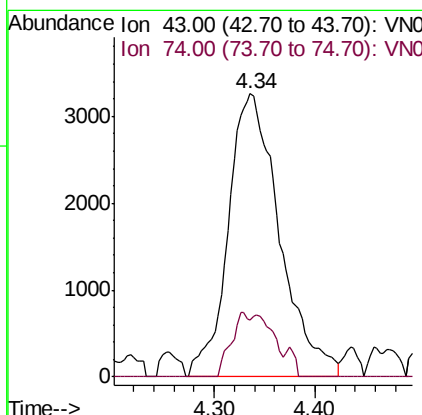
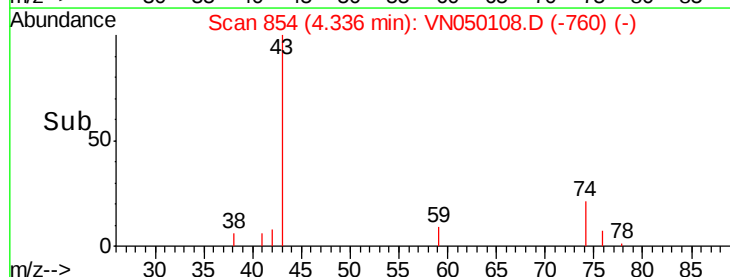
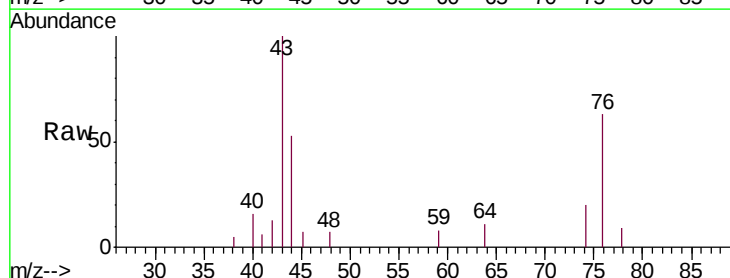
Instrument :
MSVOA_N
ClientSampled :
MW-14

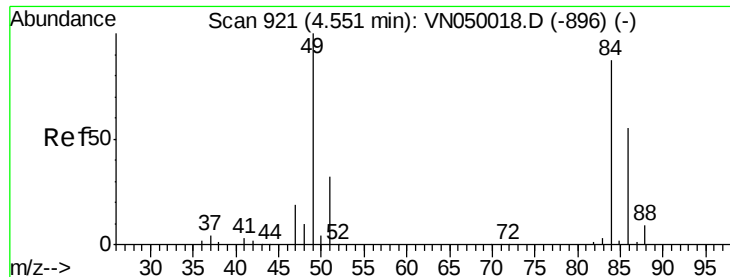
Tot Ion: 76 Resp: 10303
Ion Ratio Lower Upper
76 100
78 7.6 7.3 10.9



#18
Methyl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 854
Delta R.T. 0.00 min
Lab File: VN050108.D
Acq: 27 Jul 2018 2:50

Tgt Ion: 43 Resp: 11583
Ion Ratio Lower Upper
43 100
74 8.4 19.2 28.8#

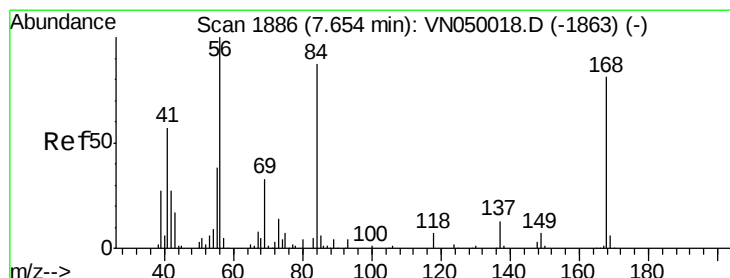
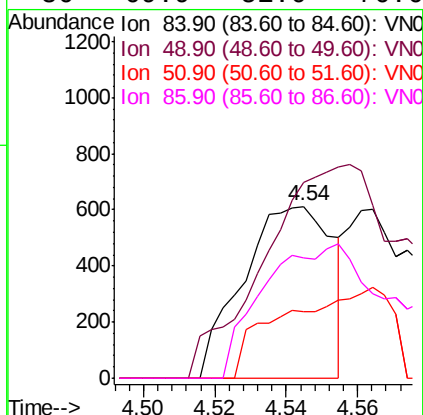
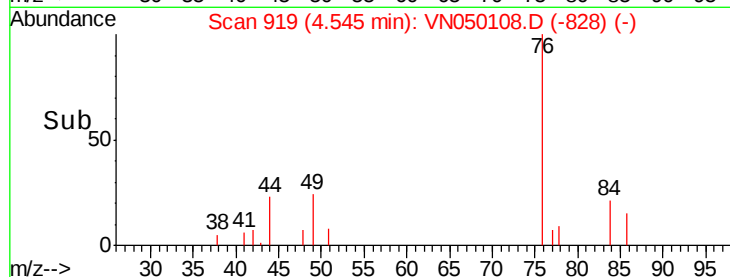
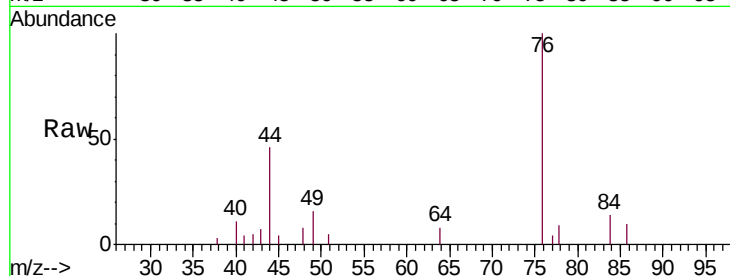




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.54 min Scan# 919
Delta R.T. -0.01 min
Lab File: VN050108.D
Acq: 27 Jul 2018 2:50

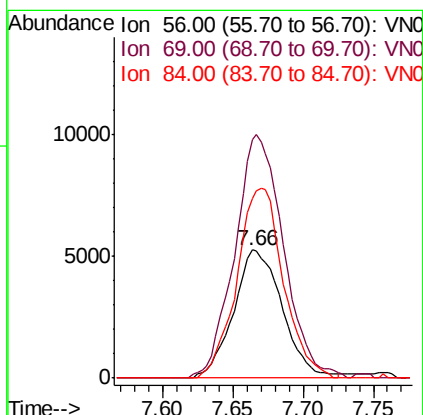
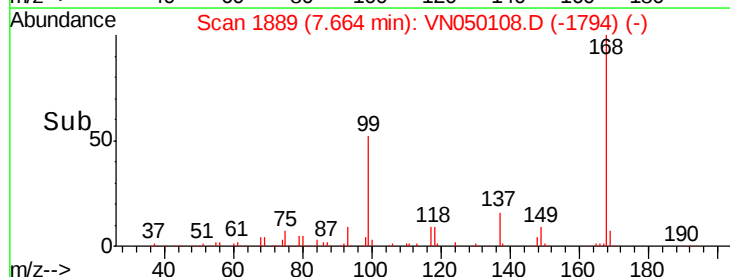
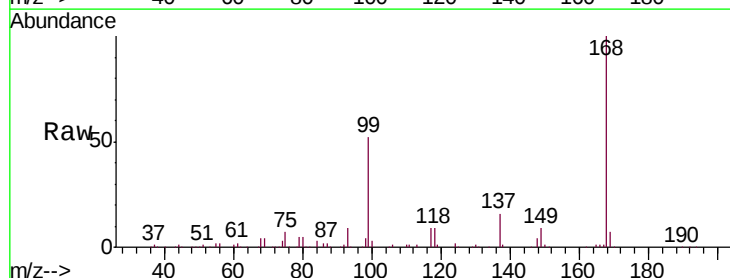
Instrument :
MSVOA_N
ClientSampled :
MW-14

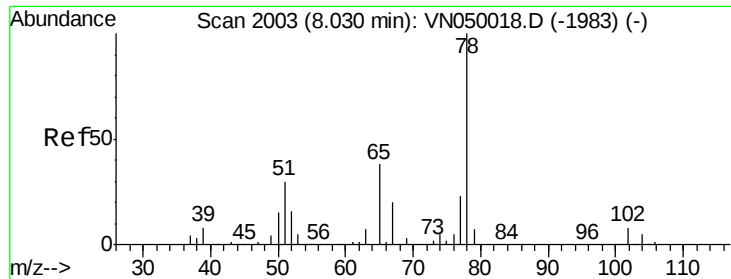
Tot Ion:	84	Resp:	1062
Ion	Ratio	Lower	Upper
84	100		
49	114.1	94.8	142.2
51	38.6	28.3	42.5
86	69.9	51.0	76.6



#31
Cyclohexane
Concen: 0.89 ug/l
RT: 7.66 min Scan# 1889
Delta R.T. 0.01 min
Lab File: VN050108.D
Acq: 27 Jul 2018 2:50

Tgt Ion:	56	Resp:	12708
Ion	Ratio	Lower	Upper
56	100		
69	186.1	26.2	39.4#
84	140.0	67.4	101.0#

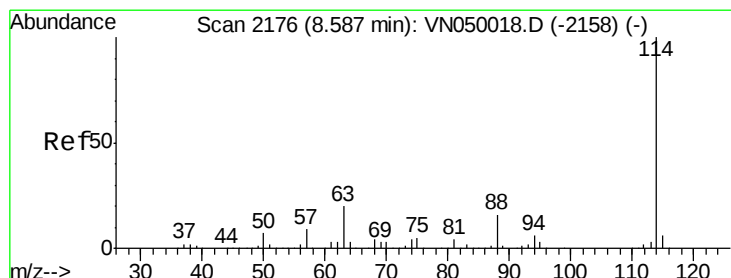
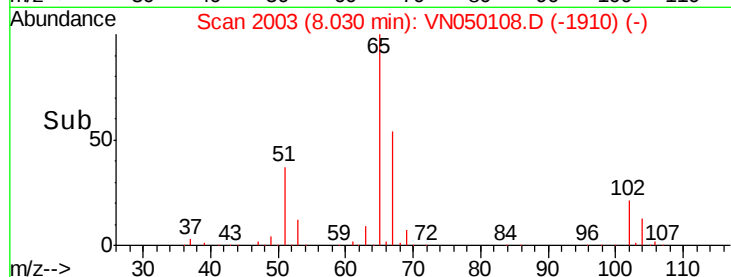
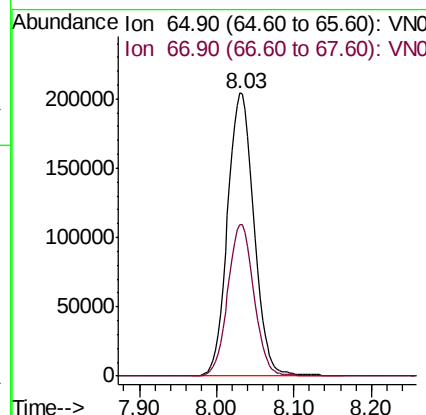
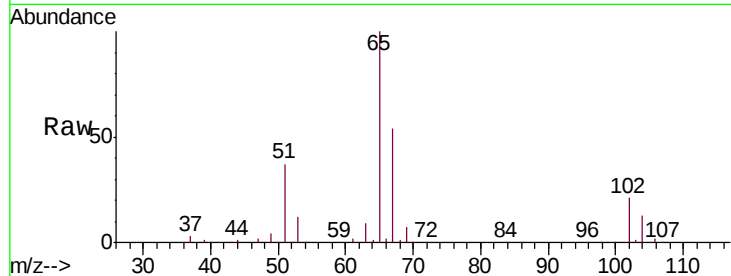




#33
 1,2-Dichloroethane-d4
 Concen: 50.07 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050108.D
 Acq: 27 Jul 2018 2:50

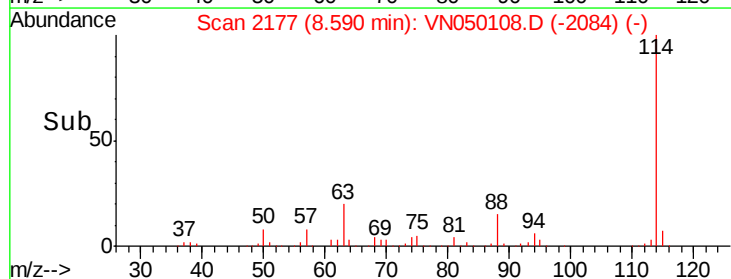
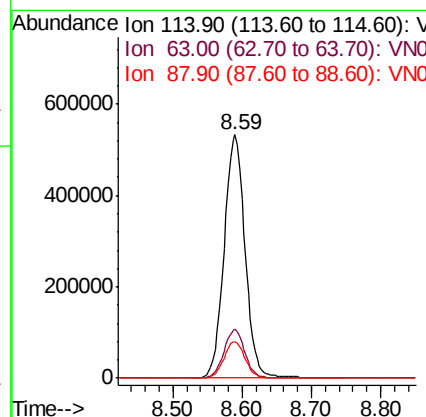
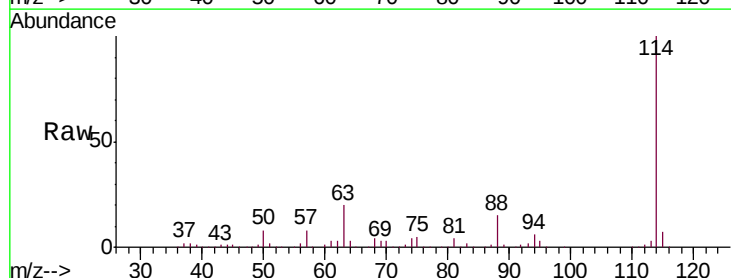
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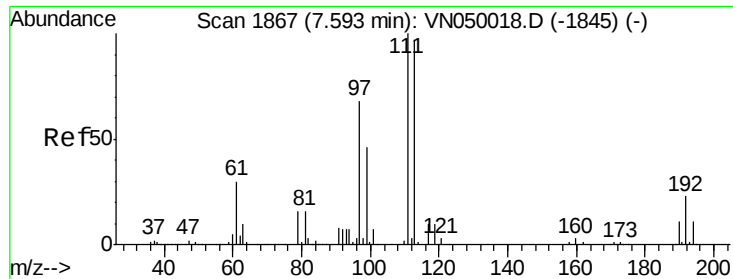
Tot Ion: 65 Resp: 484409
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050108.D
 Acq: 27 Jul 2018 2:50

Tgt Ion: 114 Resp: 1117221
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 40.0
 88 15.1 0.0 31.2

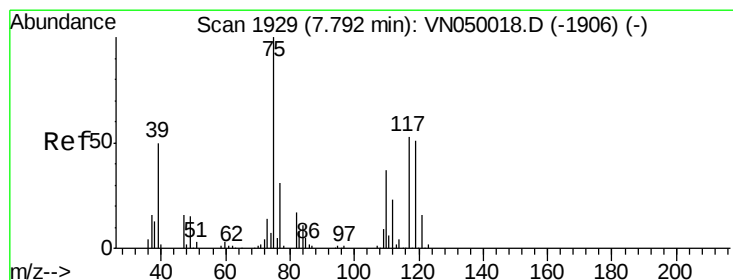
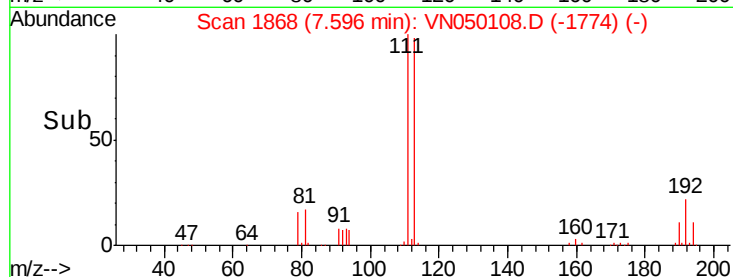
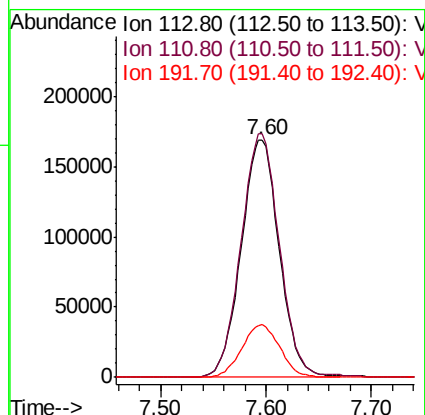
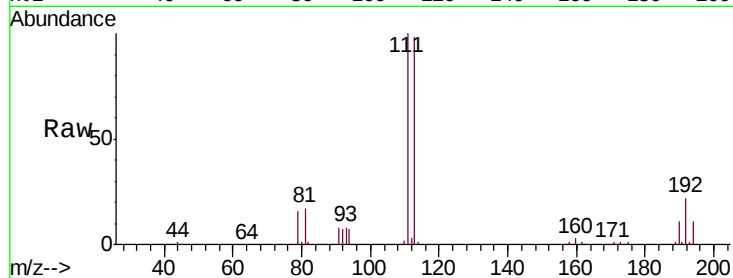




#35
 Dibromofluoromethane
 Concen: 46.55 ug/l
 RT: 7.60 min Scan# 1868
 Delta R.T. 0.00 min
 Lab File: VN050108.D
 Acq: 27 Jul 2018 2:50

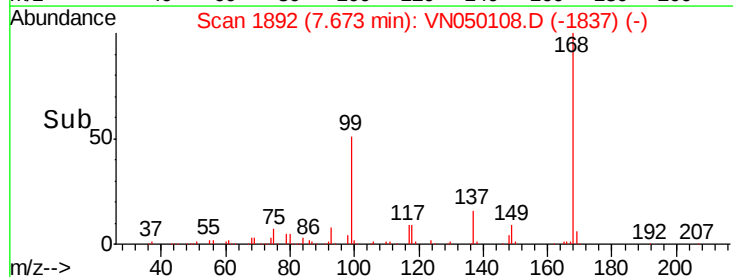
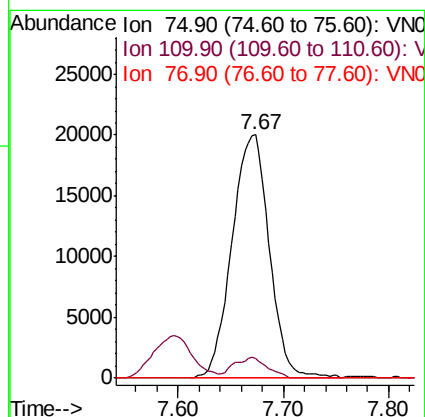
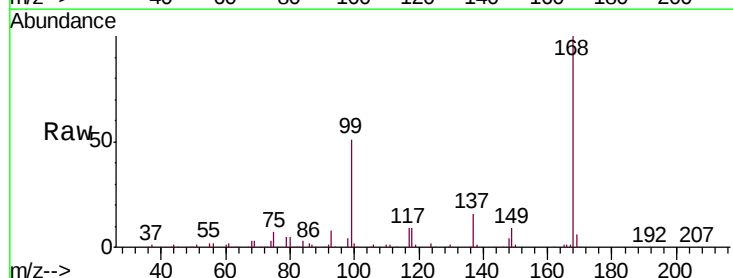
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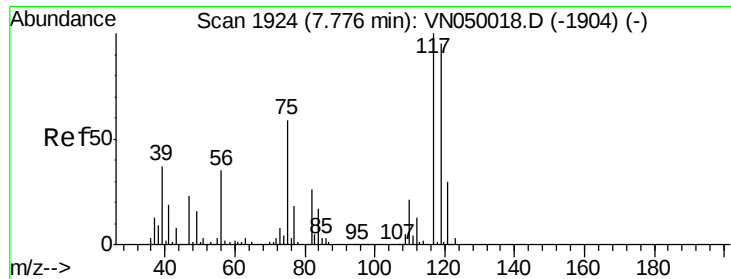
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.8	80.7	121.1
192	22.1	17.8	26.6



#36
 1,1-Dichloropropene
 Concen: 3.90 ug/l
 RT: 7.67 min Scan# 1892
 Delta R.T. -0.12 min
 Lab File: VN050108.D
 Acq: 27 Jul 2018 2:50

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.7	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: VN050108.D

Acq: 27 Jul 2018 2:50

Instrument :

MSVOA_N

ClientSampleId :

MW-14

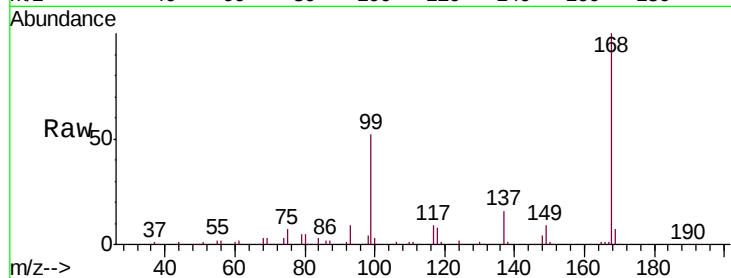
Tot Ion:117 Resp: 62959

Ion Ratio Lower Upper

117 100

119 6.0 77.4 116.0#

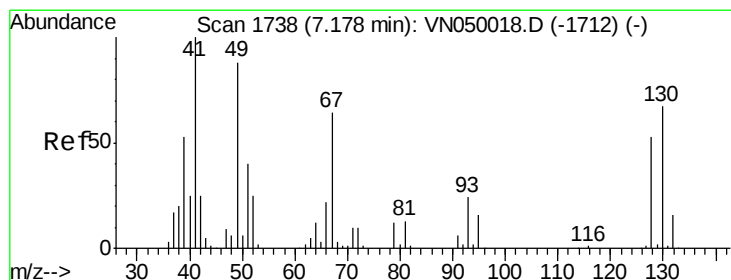
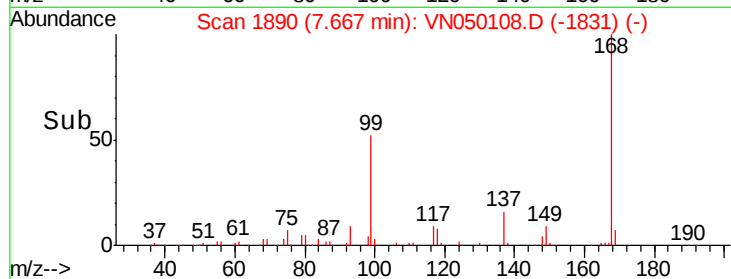
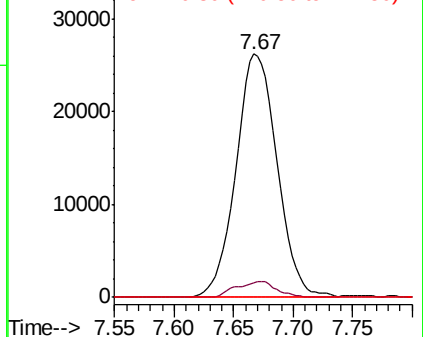
121 0.0 23.9 35.9#



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: 2.77 ug/l

RT: 7.23 min Scan# 1755

Delta R.T. 0.06 min

Lab File: VN050108.D

Acq: 27 Jul 2018 2:50

Tgt Ion: 41 Resp: 103

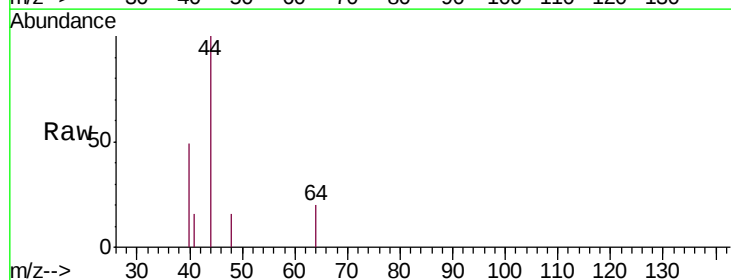
Ion Ratio Lower Upper

41 100

39 0.0 55.8 83.6#

67 0.0 84.3 126.5#

52 0.0 34.2 51.2#

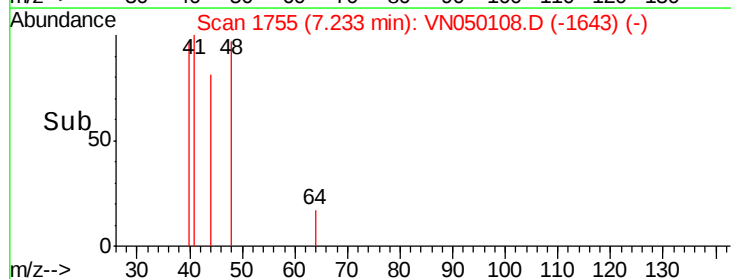
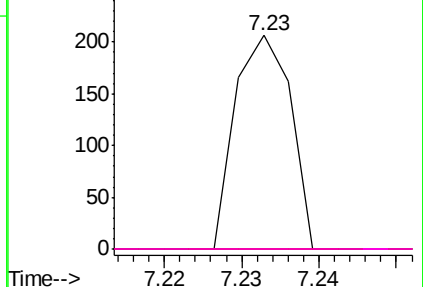


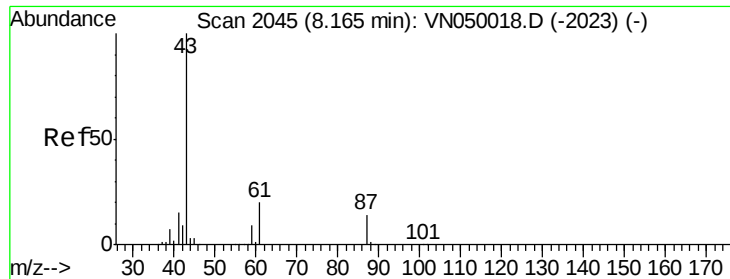
Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO





#43

Isopropyl Acetate

Concen: 9.95 ug/l

RT: 8.24 min Scan# 2069

Delta R.T. 0.07 min

Lab File: VN050108.D

Acq: 27 Jul 2018 2:50

Instrument :

MSVOA_N

ClientSampleId :

MW-14

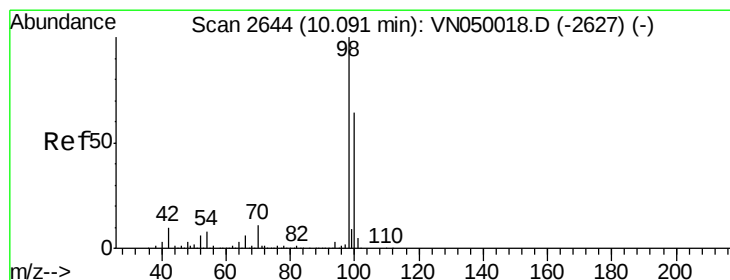
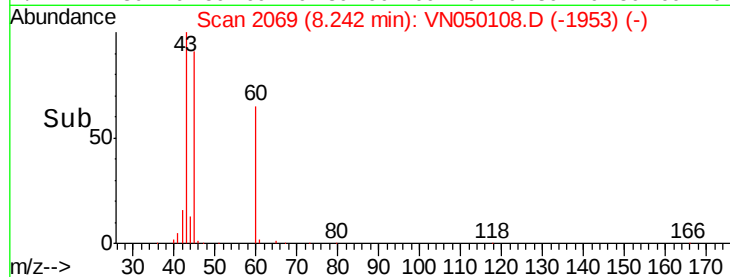
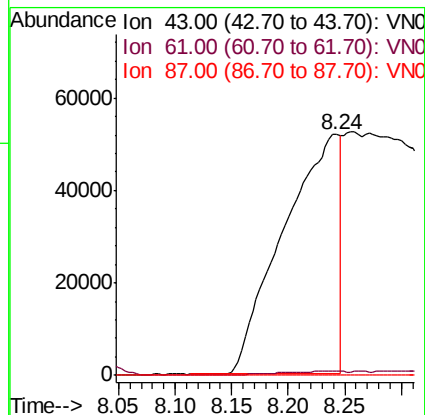
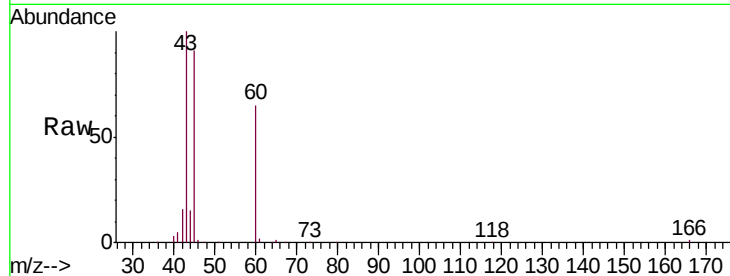
Tot Ion: 43 Resp: 179613

Ion Ratio Lower Upper

43 100

61 0.4 15.8 23.6#

87 0.0 10.3 15.5#



#50

Toluene-d8

Concen: 45.58 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050108.D

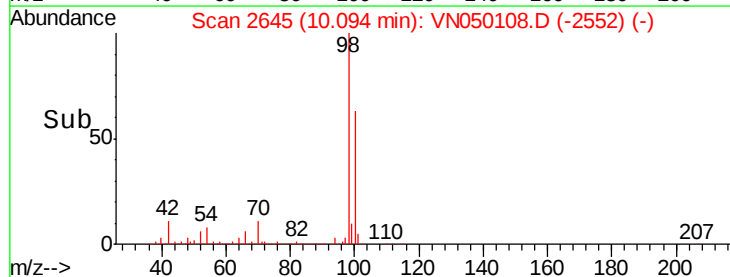
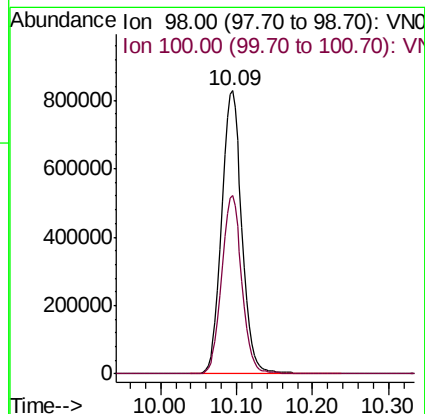
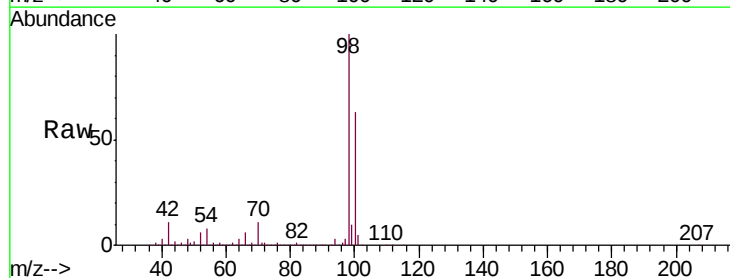
Acq: 27 Jul 2018 2:50

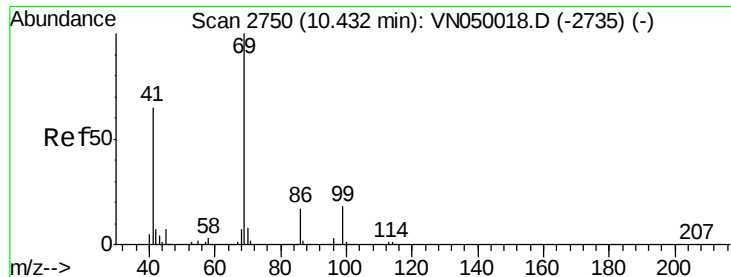
Tgt Ion: 98 Resp: 1528587

Ion Ratio Lower Upper

98 100

100 62.9 50.7 76.1





#56

Ethyl methacrylate

Concen: 2.08 ug/l

RT: 10.40 min Scan# 2739

Delta R.T. -0.04 min

Lab File: VN050108.D

Acq: 27 Jul 2018 2:50

Instrument :

MSVOA_N

ClientSampled :

MW-14

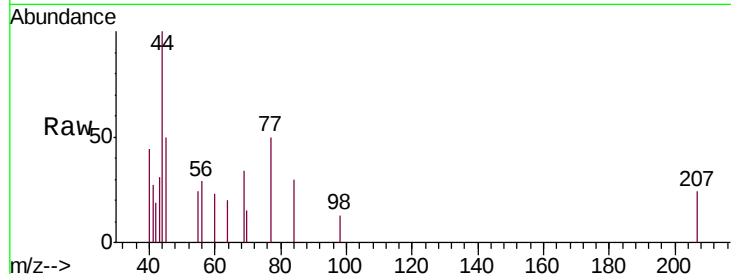
Tot Ion: 69 Resp: 568

Ion Ratio Lower Upper

69 100

41 21.8 51.0 76.4#

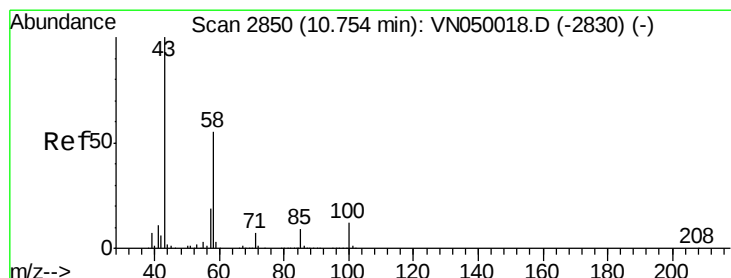
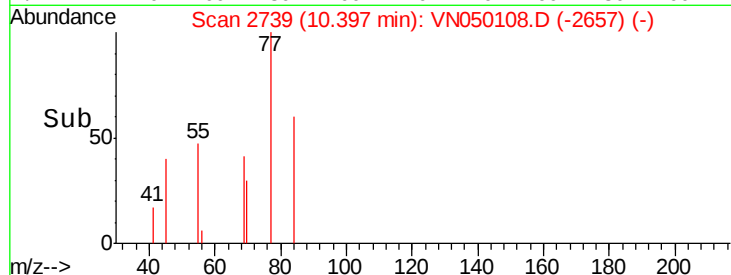
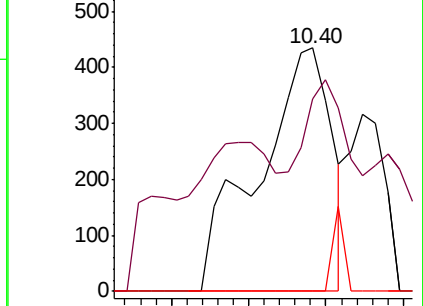
39 5.1 26.6 40.0#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#59

2-Hexanone

Concen: 5.23 ug/l

RT: 10.76 min Scan# 2852

Delta R.T. 0.01 min

Lab File: VN050108.D

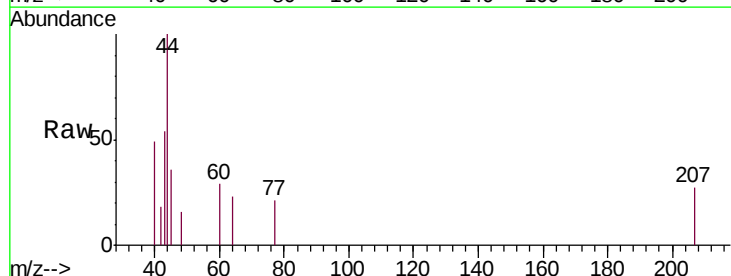
Acq: 27 Jul 2018 2:50

Tgt Ion: 43 Resp: 356

Ion Ratio Lower Upper

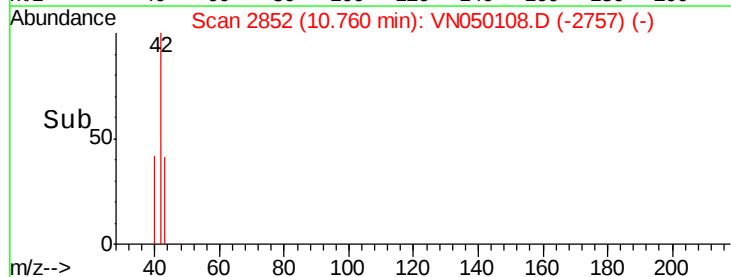
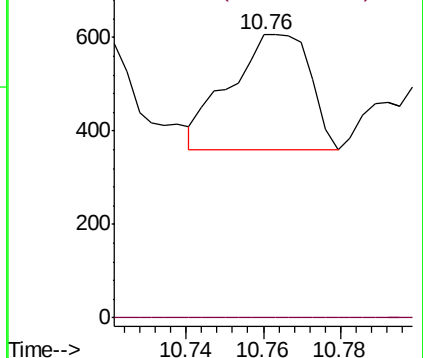
43 100

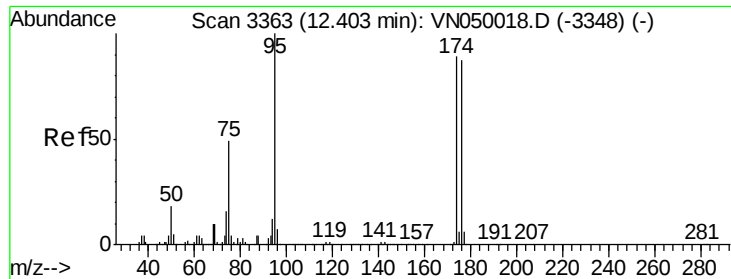
58 0.0 27.6 82.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

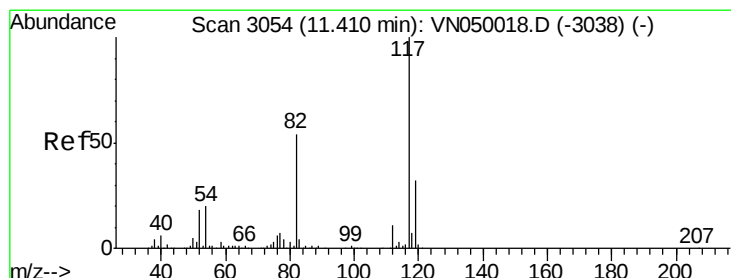
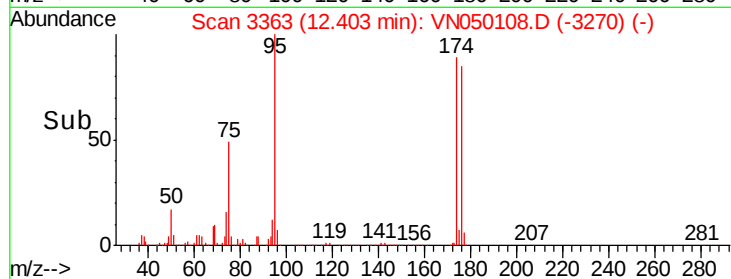
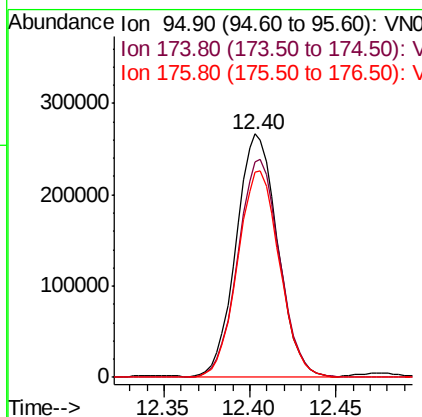
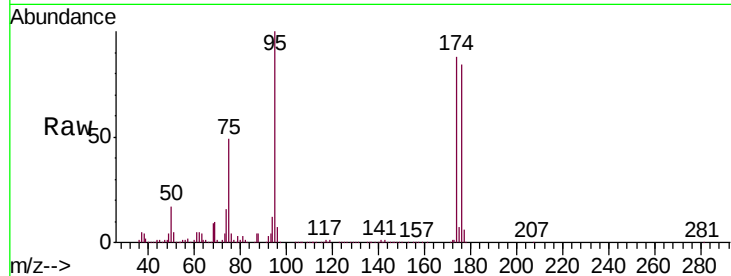




#62
4-Bromofluorobenzene
Concen: 40.31 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050108.D
Acq: 27 Jul 2018 2:50

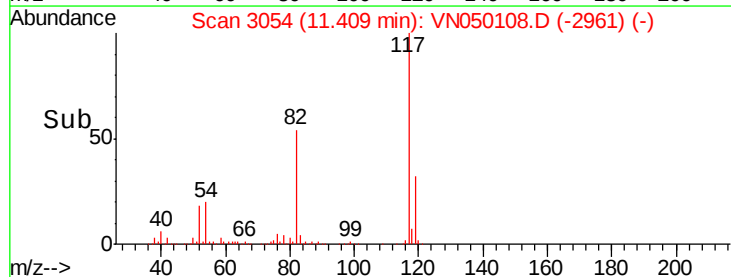
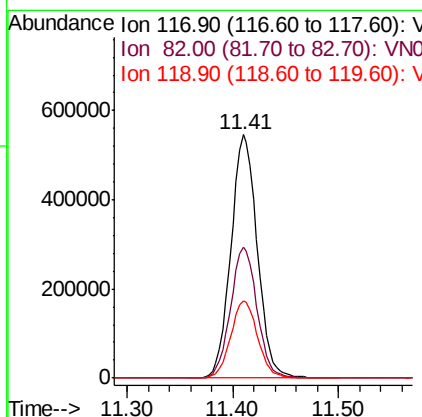
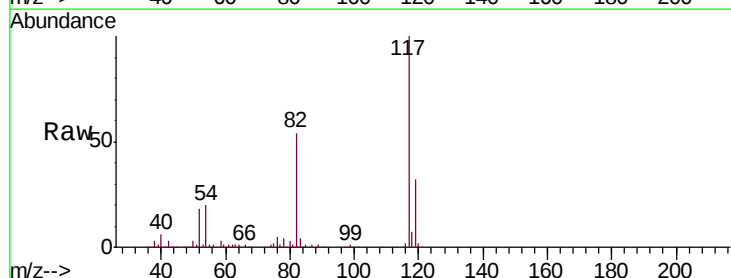
Instrument :
MSVOA_N
ClientSampleId :
MW-14

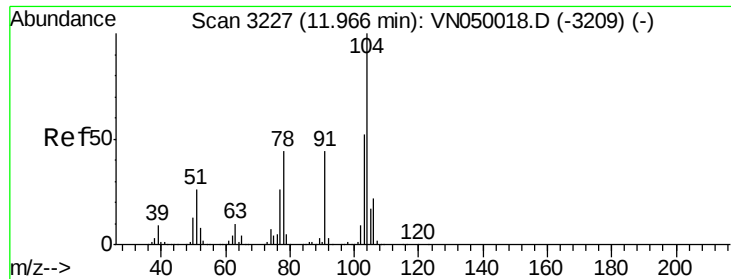
Tot Ion: 95 Resp: 445131
Ion Ratio Lower Upper
95 100
174 90.9 0.0 178.2
176 86.5 0.0 173.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050108.D
Acq: 27 Jul 2018 2:50

Tgt Ion: 117 Resp: 941074
Ion Ratio Lower Upper
117 100
82 53.8 43.7 65.5
119 31.9 26.1 39.1





#70

Stvrene

Concen: 0.93 ug/l

RT: 11.98 min Scan# 3230

Delta R.T. 0.01 min

Lab File: VN050108.D

Acq: 27 Jul 2018 2:50

Instrument :

MSVOA_N

ClientSampleId :

MW-14

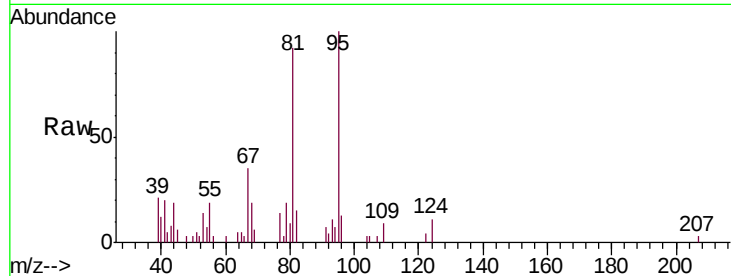
Tot Ion:104 Resp: 65

Ion Ratio Lower Upper

104 100

78 183.1 39.3 58.9#

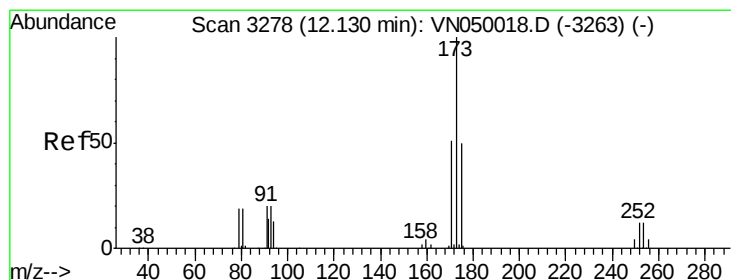
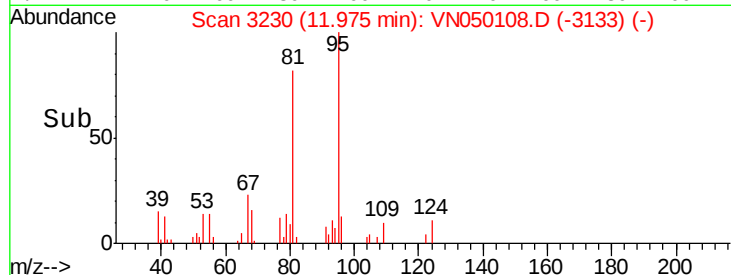
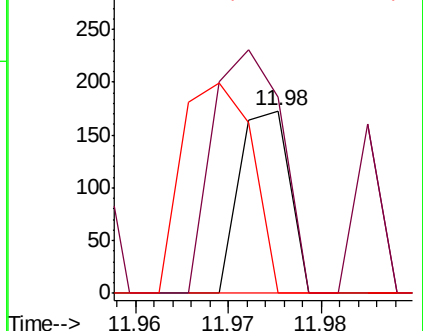
103 161.5 45.0 67.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 0.29 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.28 min

Lab File: VN050108.D

Acq: 27 Jul 2018 2:50

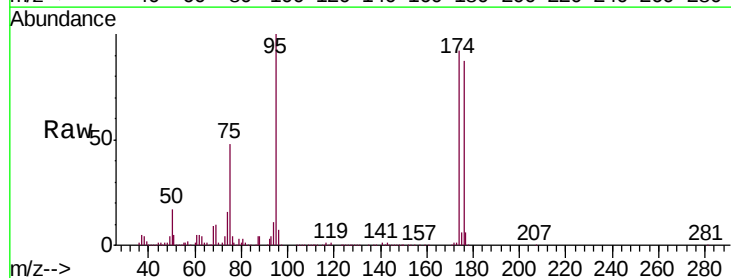
Tgt Ion:173 Resp: 1927

Ion Ratio Lower Upper

173 100

175 1352.7 24.1 72.2#

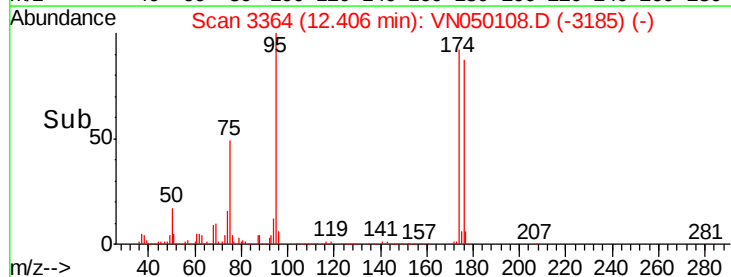
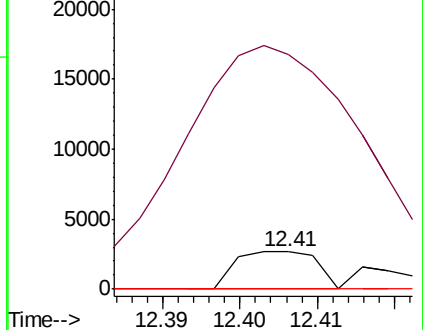
254 0.0 0.2 0.2#

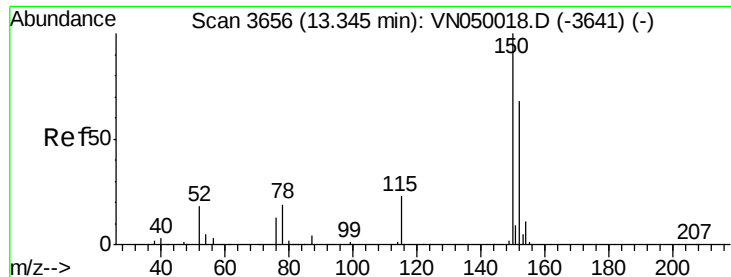


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN050108.D

Acq: 27 Jul 2018 2:50

Instrument :

MSVOA_N

ClientSampled :

MW-14

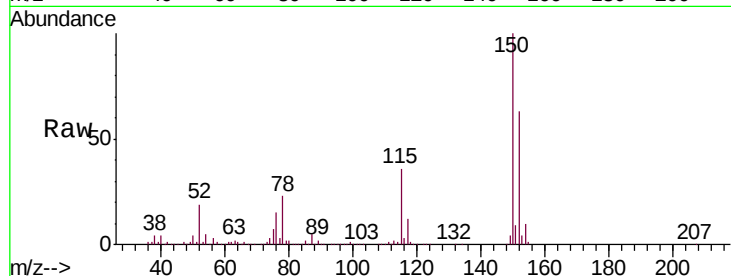
Tot Ion:152 Resp: 370589

Ion Ratio Lower Upper

152 100

115 56.9 27.8 83.3

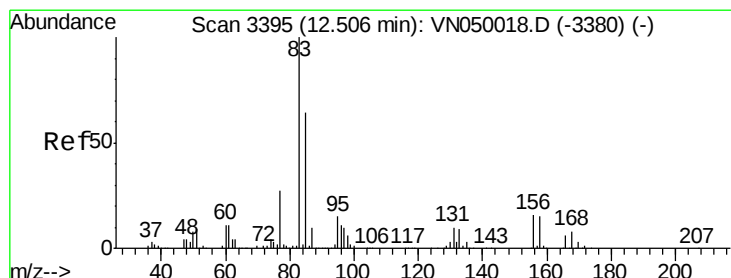
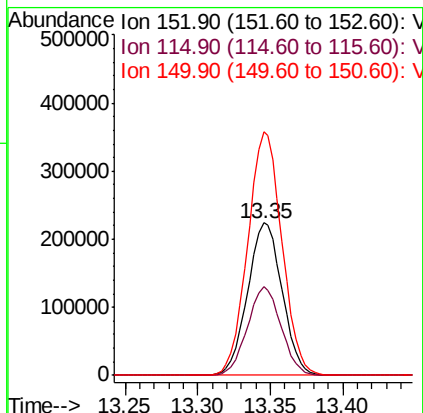
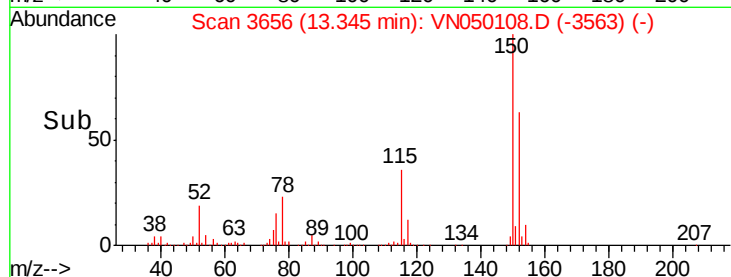
150 158.1 0.0 348.6



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



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.52 min Scan# 3400

Delta R.T. 0.02 min

Lab File: VN050108.D

Acq: 27 Jul 2018 2:50

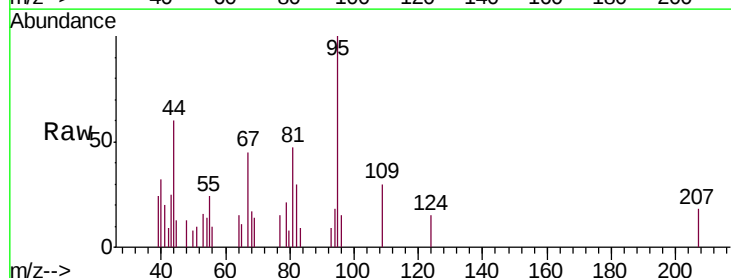
Tgt Ion: 83 Resp: 99

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.3#

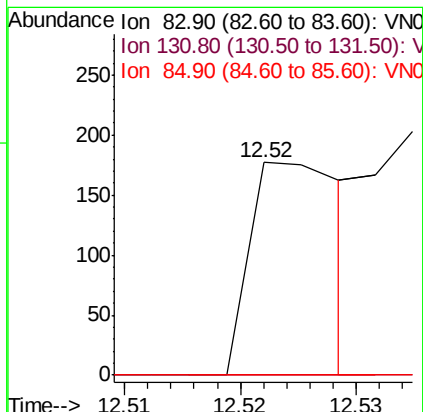
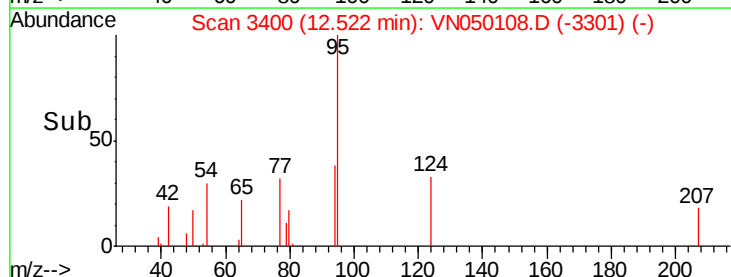
85 0.0 32.3 96.8#

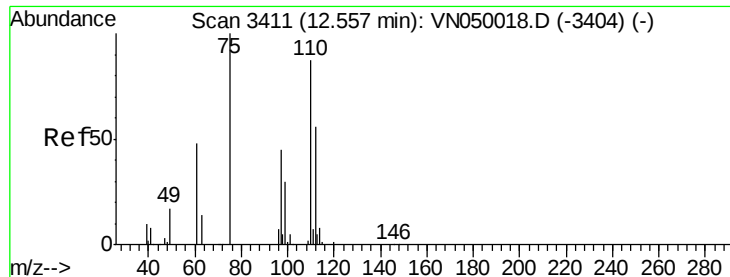


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 31.72 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050108.D

Acq: 27 Jul 2018 2:50

Instrument :

MSVOA_N

ClientSampled :

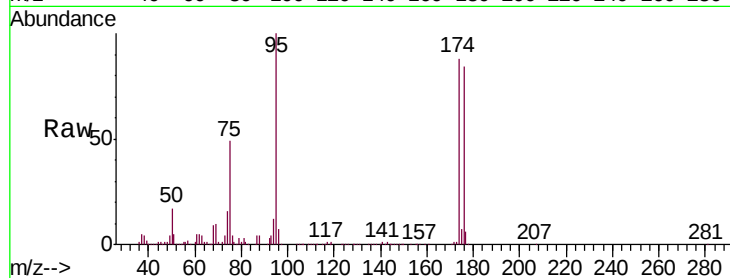
MW-14

Tot Ion: 75 Resp: 218449

Ion Ratio Lower Upper

75 100

77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

150000

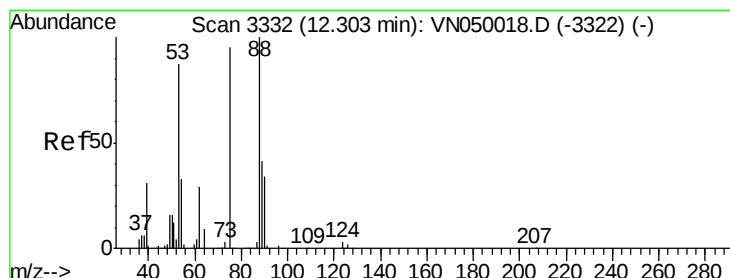
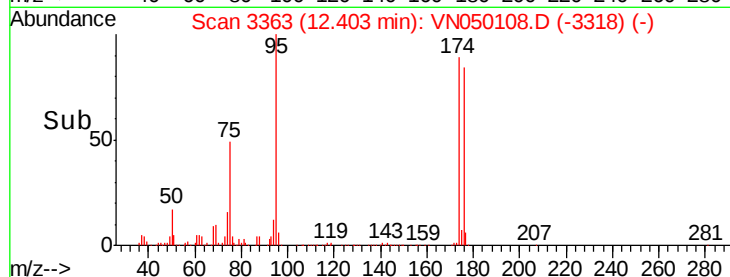
12.40

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 100.61 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050108.D

Acq: 27 Jul 2018 2:50

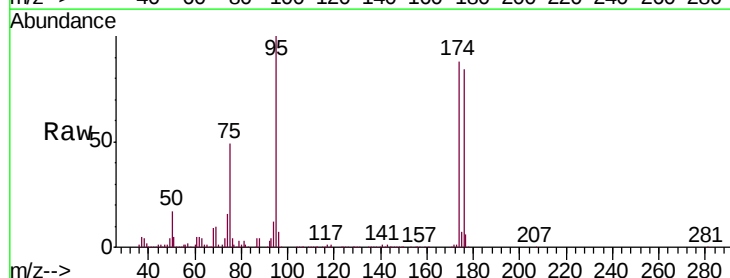
Tgt Ion: 75 Resp: 218449

Ion Ratio Lower Upper

75 100

53 0.3 73.5 110.3#

89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

150000

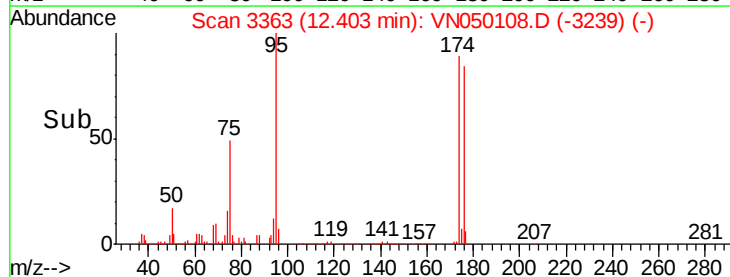
12.40

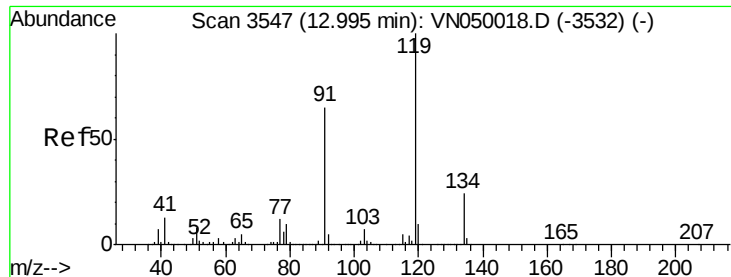
100000

50000

0

Time-->

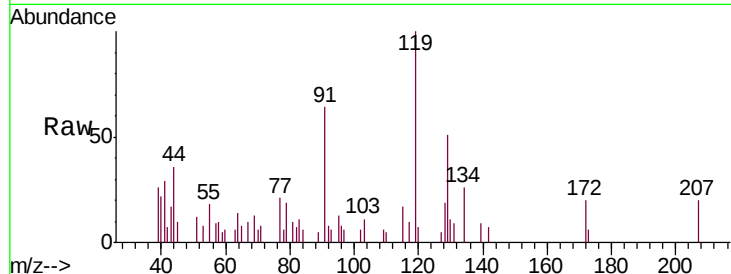




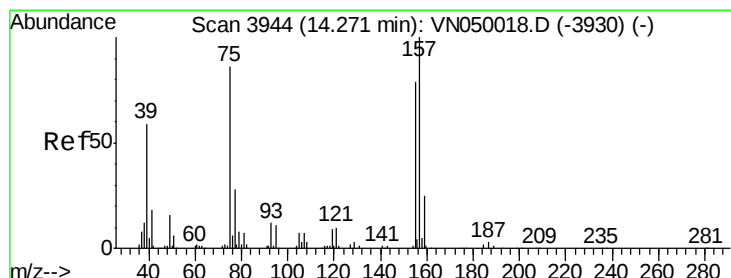
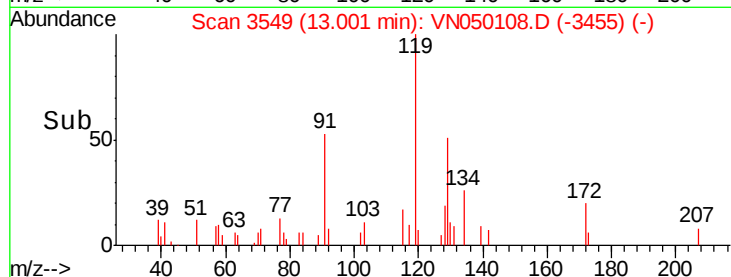
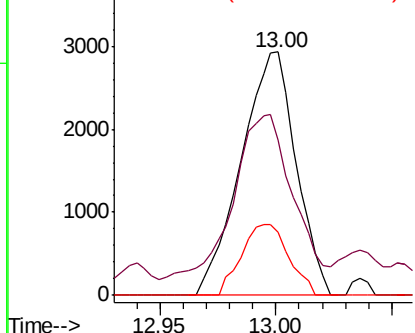
#83
tert-Butylbenzene
Concen: 0.24 ug/l
RT: 13.00 min Scan# 3549
Delta R.T. 0.00 min
Lab File: VN050108.D
Acq: 27 Jul 2018 2:50

Instrument :
MSVOA_N
ClientSampleId :
MW-14

Tot Ion: 119 Resp: 4817
Ion Ratio Lower Upper
119 100
91 71.5 32.1 96.3
134 24.9 13.2 39.5

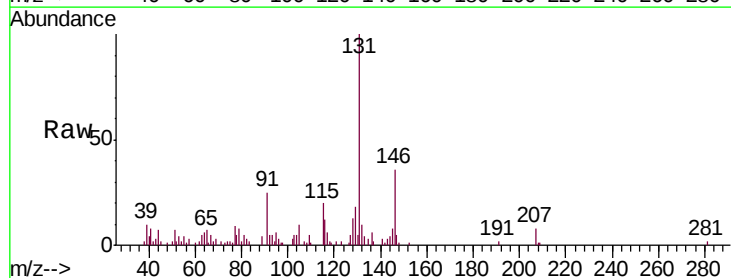


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

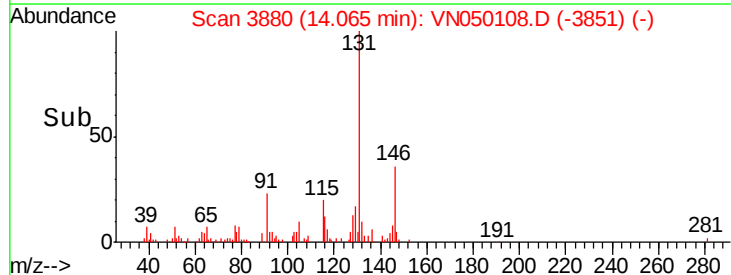
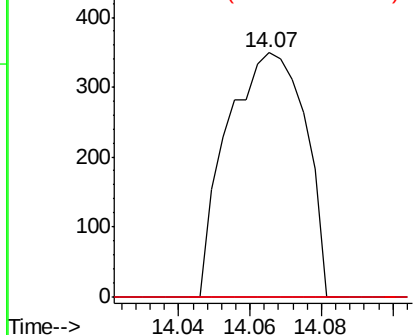


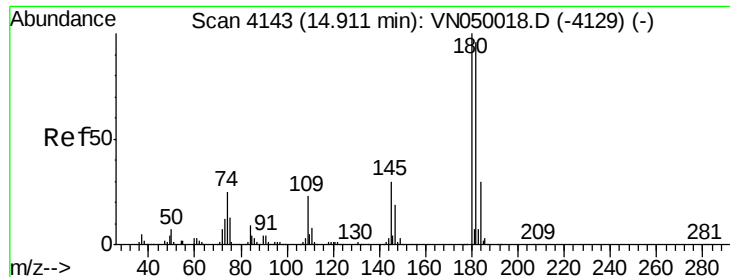
#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.07 min Scan# 3880
Delta R.T. -0.21 min
Lab File: VN050108.D
Acq: 27 Jul 2018 2:50

Tgt Ion: 75 Resp: 526
Ion Ratio Lower Upper
75 100
155 0.0 44.8 134.4#
157 0.0 57.2 171.6#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V

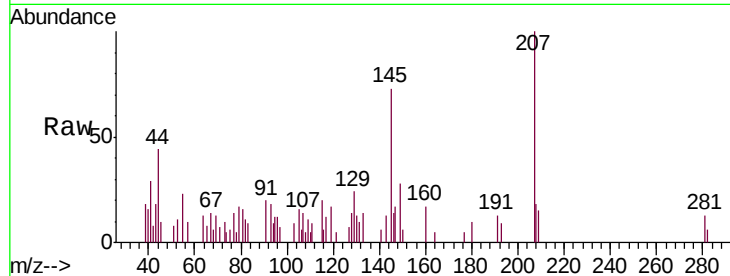




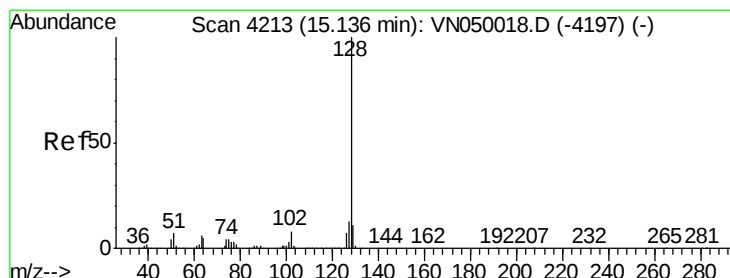
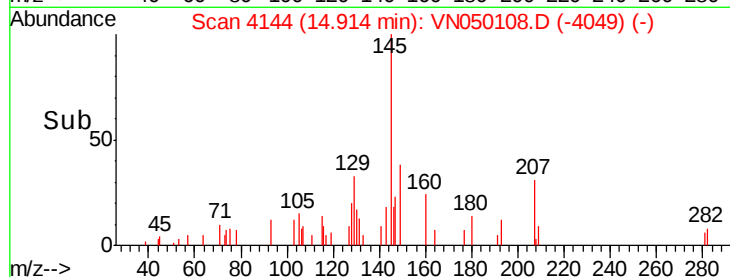
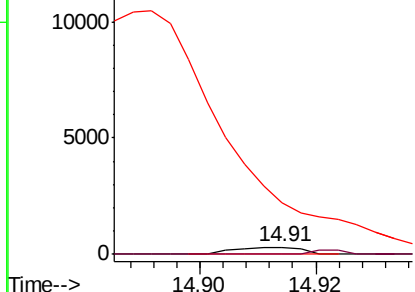
#93
 1,2,4-Trichlorobenzene
 Concen: 3.12 ug/l
 RT: 14.91 min Scan# 4144
 Delta R.T. 0.00 min
 Lab File: VN050108.D
 Acq: 27 Jul 2018 2:50

Instrument :
 MSVOA_N
 ClientSampled :
 MW-14

Tot Ion:180 Resp: 245
 Ion Ratio Lower Upper
 180 100
 182 25.7 46.7 140.1#
 145 0.0 13.8 41.4#

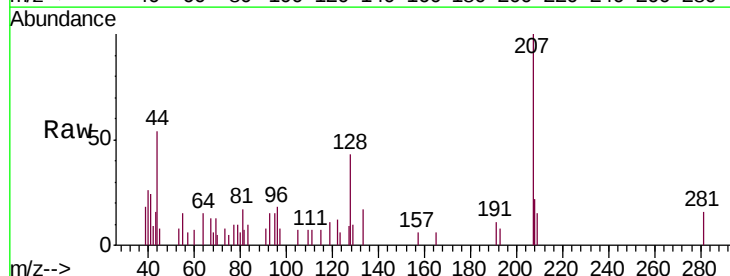


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

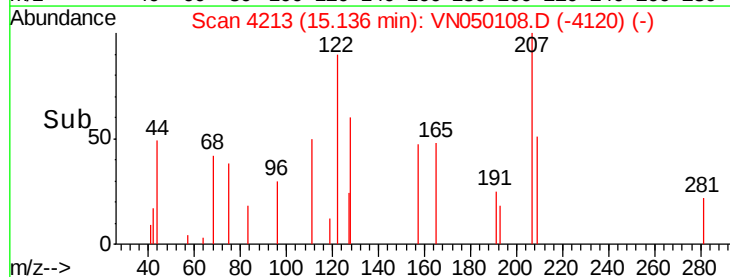
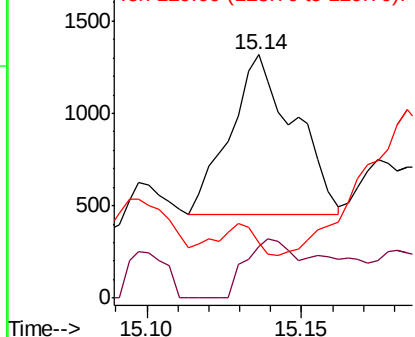


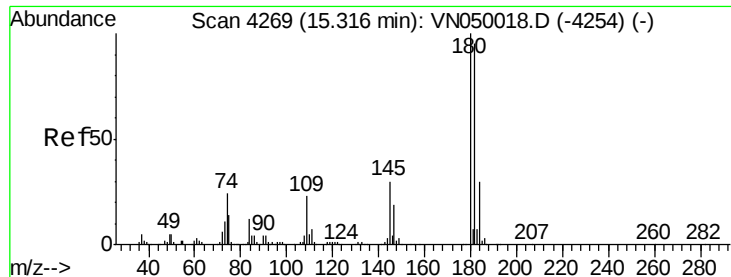
#95
 Naphthalene
 Concen: 4.48 ug/l
 RT: 15.14 min Scan# 4213
 Delta R.T. 0.00 min
 Lab File: VN050108.D
 Acq: 27 Jul 2018 2:50

Tgt Ion:128 Resp: 1258
 Ion Ratio Lower Upper
 128 100
 127 30.4 10.4 15.6#
 129 7.9 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





#96
 1,2,3-Trichlorobenzene
 Concen: 2.24 ua/l
 RT: 15.32 min Scan# 4269
 Delta R.T. -0.00 min
 Lab File: VN050108.D
 Acq: 27 Jul 2018 2:50

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-14

Tot Ion:180 Resp: 253
 Ion Ratio Lower Upper
 180 100
 182 12.3 48.1 144.4#
 145 4070.4 15.3 45.9#

