

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081018\
 Data File : VN050522.D
 Acq On : 10 Aug 2018 17:01
 Operator : MD\SY
 Sample : J4397-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-10

Quant Time: Aug 10 23:17:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 05:22:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	725562	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1180536	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	977313	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	368096	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	491022	50.65	ug/l	0.00
Spiked Amount			Recovery	=	101.30%	
35) Dibromofluoromethane	7.59	113	452630	47.78	ug/l	0.00
Spiked Amount			Recovery	=	95.56%	
50) Toluene-d8	10.09	98	1576339	44.26	ug/l	0.00
Spiked Amount			Recovery	=	88.52%	
62) 4-Bromofluorobenzene	12.40	95	439023	36.17	ug/l	0.00
Spiked Amount			Recovery	=	72.34%	

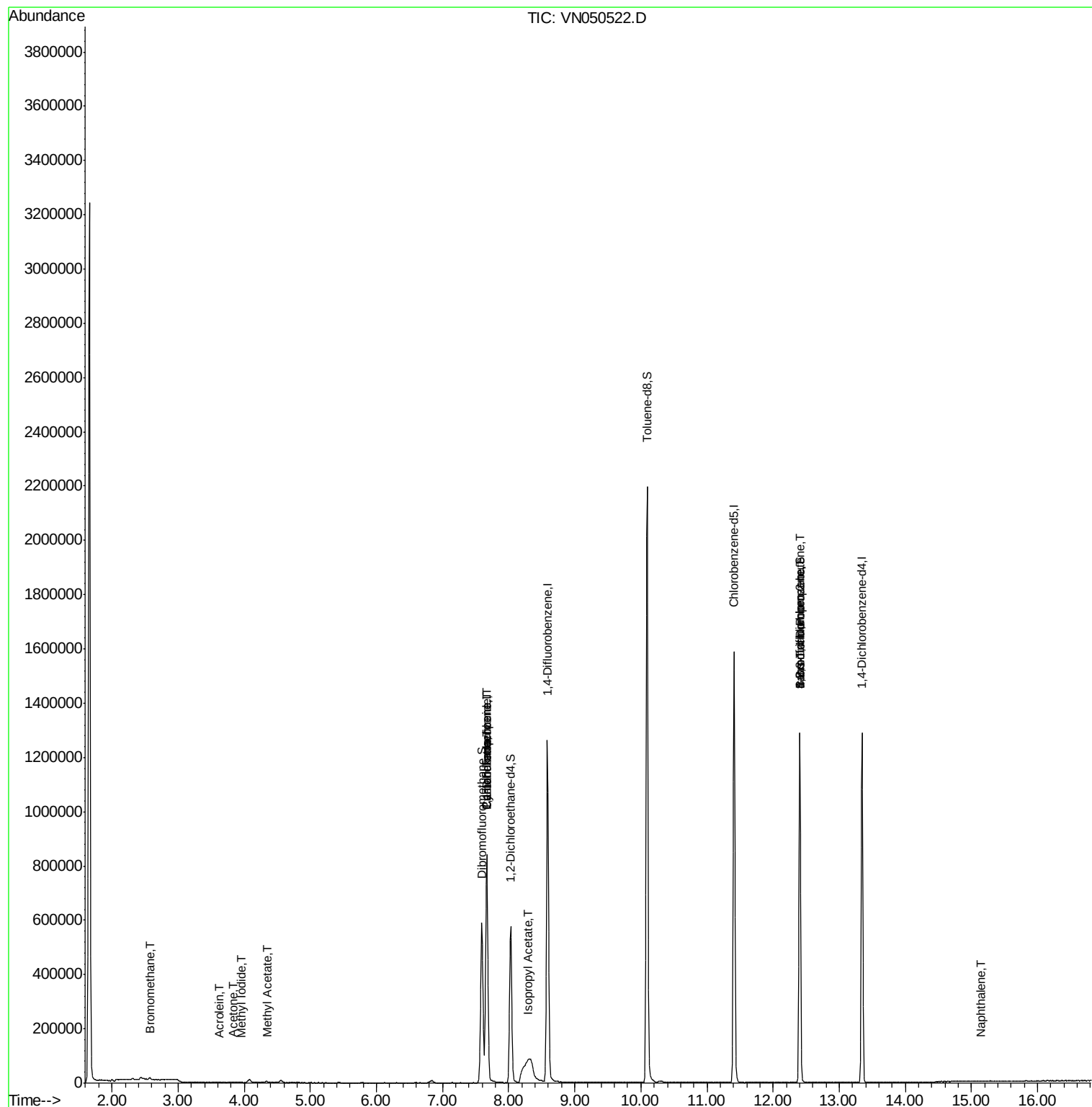
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2972	Below Cal		99
5) Bromomethane	2.57	94	3926	0.94 ug/l		89
10) Methyl Iodide	3.95	142	876	0.24 ug/l #		72
13) Acrolein	3.62	56	62	15.09 ug/l #		15
16) Acetone	3.83	43	5654	1.60 ug/l		89
18) Methyl Acetate	4.35	43	8151	0.90 ug/l		94
20) Methylene Chloride	4.56	84	6587	Below Cal		85
31) Cyclohexane	7.67	56	13169	0.32 ug/l #		1
36) 1,1-Dichloropropene	7.67	75	49931	3.85 ug/l #		48
38) Carbon Tetrachloride	7.67	117	64525	4.77 ug/l #		16
43) Isopropyl Acetate	8.30	43	164928	10.23 ug/l #		61
71) Bromoform	12.41	173	3034	0.47 ug/l #		1
76) 1,2,3-Trichloropropane	12.40	75	212354	31.87 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	212354	111.98 ug/l #		13
95) Naphthalene	15.13	128	285	3.63 ug/l #		69

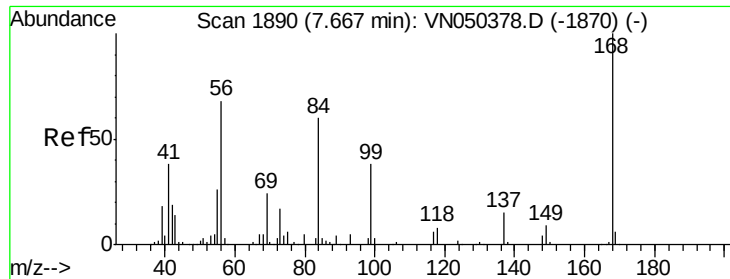
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050522.D

Acq: 10 Aug 2018 17:01

Instrument :

MSVOA_N

ClientSampled :

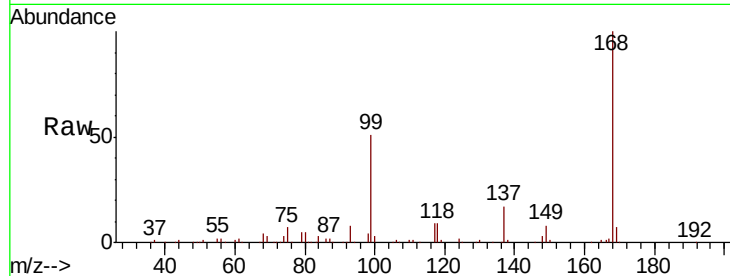
MW-10

Tot Ion:168 Resp: 725562

Ion Ratio Lower Upper

168 100

99 51.2 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

300000

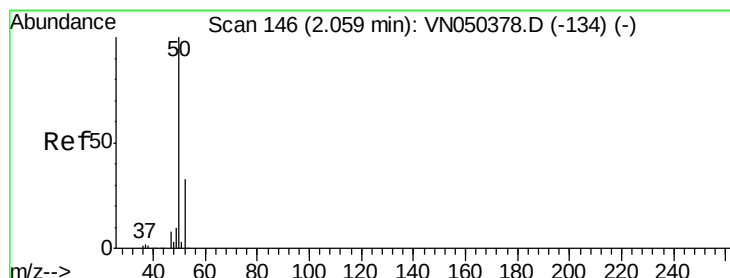
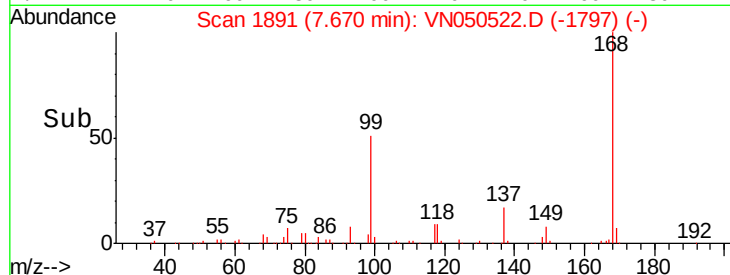
200000

100000

0

Time-->

7.60 7.70 7.80



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050522.D

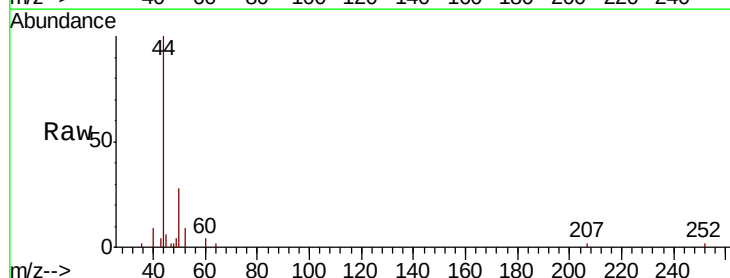
Acq: 10 Aug 2018 17:01

Tgt Ion: 50 Resp: 2972

Ion Ratio Lower Upper

50 100

52 32.8 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2500

2000

1500

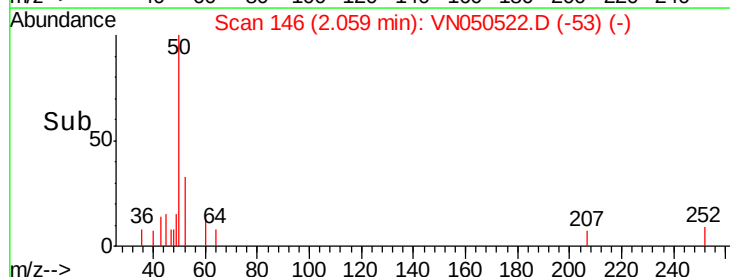
1000

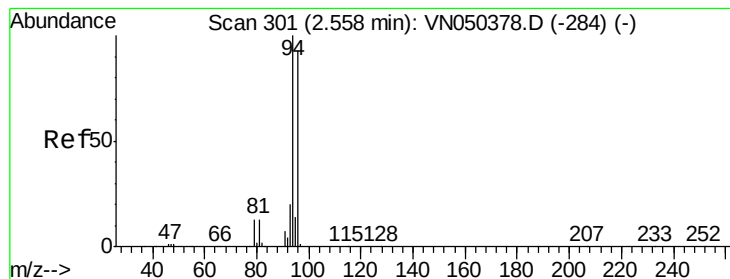
500

0

Time-->

2.05 2.10





#5

Bromomethane

Concen: 0.94 ug/l

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN050522.D

Acq: 10 Aug 2018 17:01

Instrument :

MSVOA_N

ClientSampled :

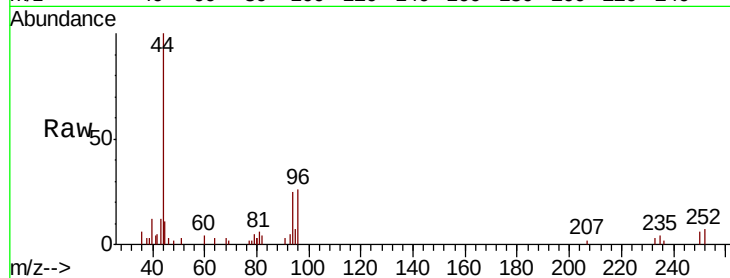
MW-10

Tot Ion: 94 Resp: 3926

Ion Ratio Lower Upper

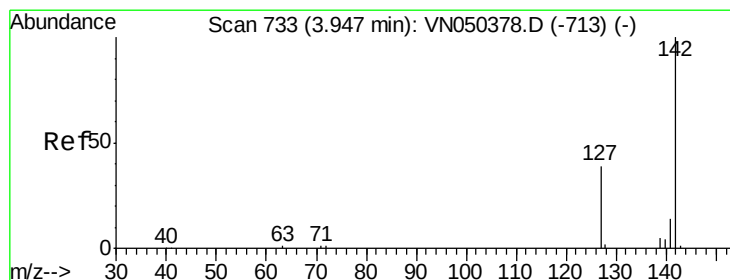
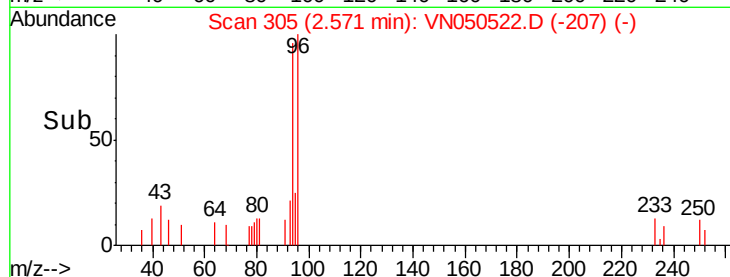
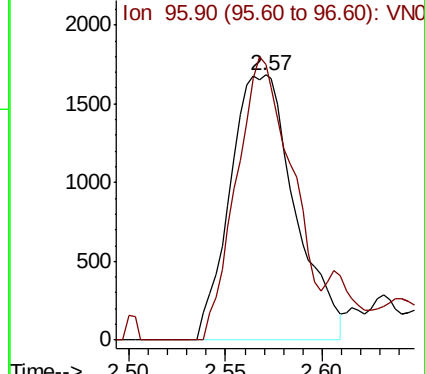
94 100

96 104.1 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN050522.D (-207) (-)

Ion 95.90 (95.60 to 96.60): VN050522.D (-207) (-)



#10

Methyl Iodide

Concen: 0.24 ug/l

RT: 3.95 min Scan# 734

Delta R.T. 0.00 min

Lab File: VN050522.D

Acq: 10 Aug 2018 17:01

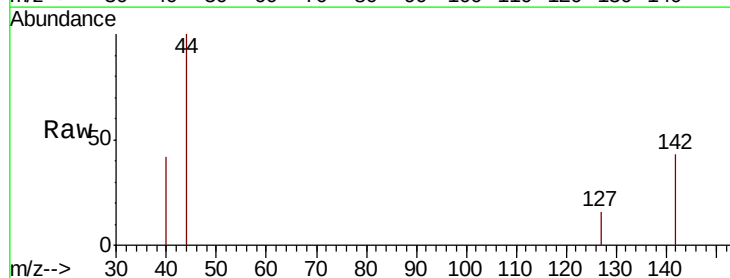
Tgt Ion: 142 Resp: 876

Ion Ratio Lower Upper

142 100

127 26.0 33.4 50.2#

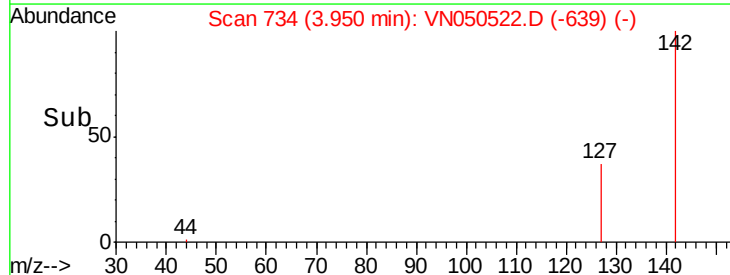
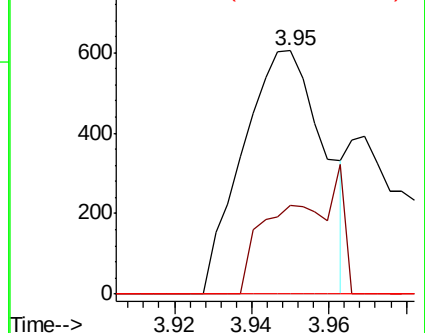
141 0.0 11.6 17.4#

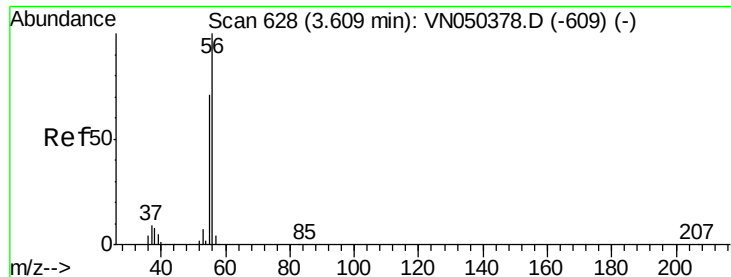


Abundance Ion 141.80 (141.50 to 142.50): VN050522.D (-639) (-)

Ion 126.80 (126.50 to 127.50): VN050522.D (-639) (-)

Ion 140.80 (140.50 to 141.50): VN050522.D (-639) (-)





#13

Acrolein

Concen: 15.09 ug/l

RT: 3.62 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN050522.D

Acq: 10 Aug 2018 17:01

Instrument :

MSVOA_N

ClientSampleId :

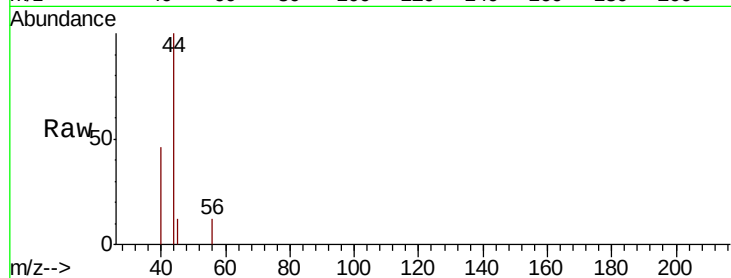
MW-10

Tot Ion: 56 Resp: 62

Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.6#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.62

150

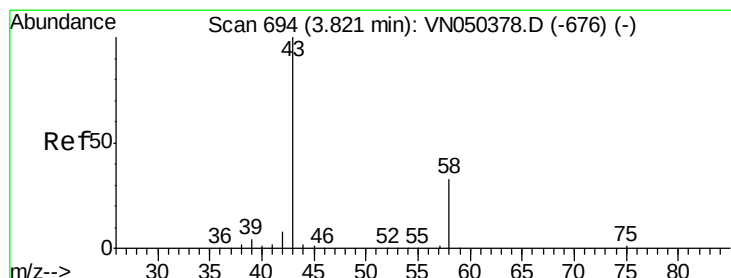
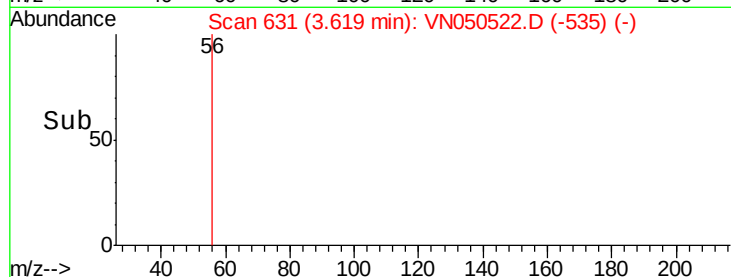
100

50

0

3.61 3.62 3.63

Time-->



#16

Acetone

Concen: 1.60 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN050522.D

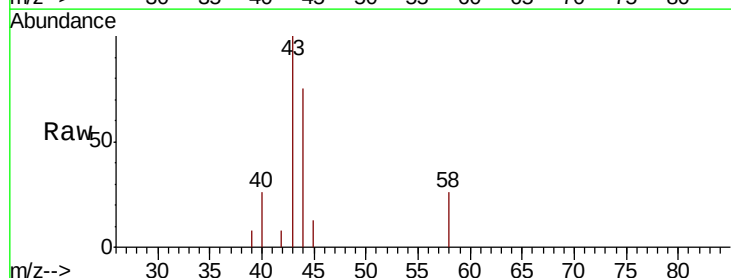
Acq: 10 Aug 2018 17:01

Tgt Ion: 43 Resp: 5654

Ion Ratio Lower Upper

43 100

58 26.0 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

2000

1500

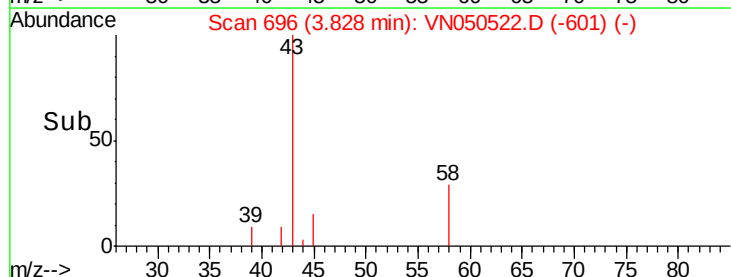
1000

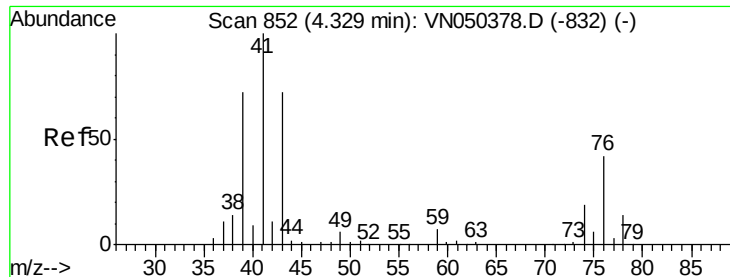
500

0

3.75 3.80 3.85 3.90

Time-->

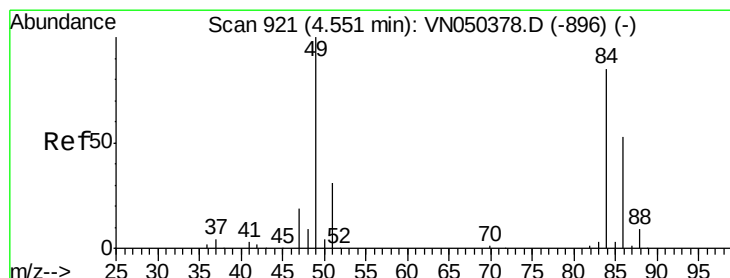
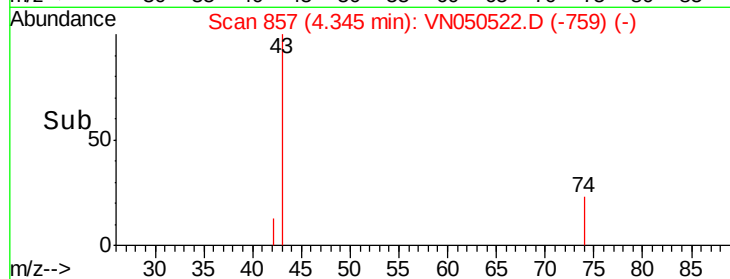
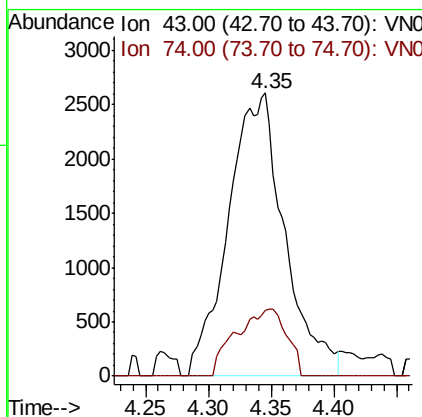
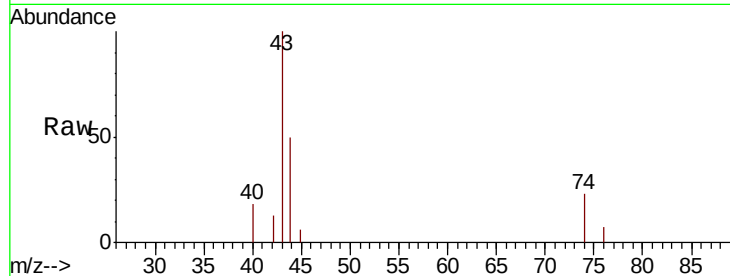




#18
Methyl Acetate
Concen: 0.90 ug/l
RT: 4.35 min Scan# 857
Delta R.T. 0.02 min
Lab File: VN050522.D
Acq: 10 Aug 2018 17:01

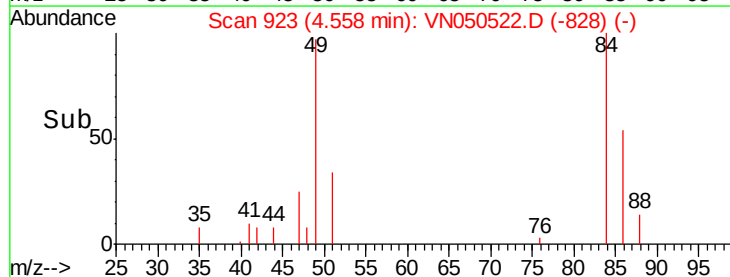
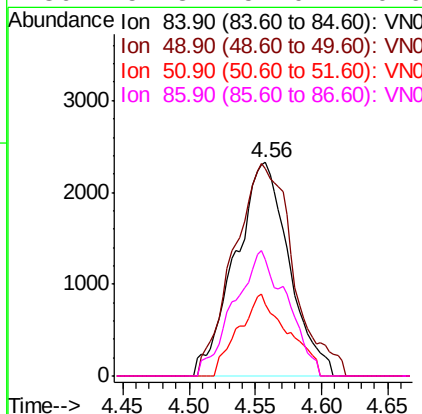
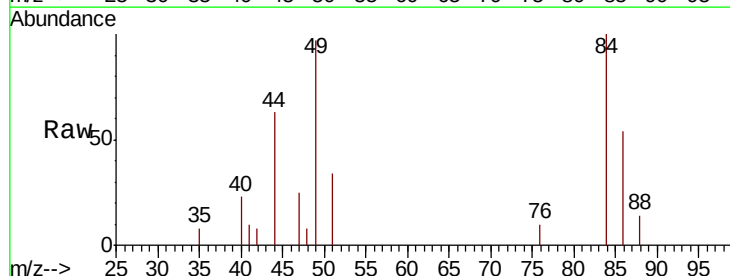
Instrument :
MSVOA_N
ClientSampleId :
MW-10

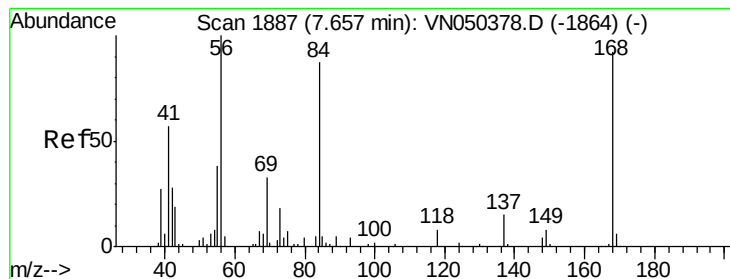
Tot Ion: 43 Resp: 8151
Ion Ratio Lower Upper
43 100
74 21.2 19.2 28.8



#20
Methylene Chloride
Concen: Below Cal
RT: 4.56 min Scan# 923
Delta R.T. 0.01 min
Lab File: VN050522.D
Acq: 10 Aug 2018 17:01

Tgt Ion: 84 Resp: 6587
Ion Ratio Lower Upper
84 100
49 96.9 94.8 142.2
51 33.8 28.3 42.5
86 54.3 51.0 76.6





#31

Cyclohexane

Concen: 0.32 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050522.D

Acq: 10 Aug 2018 17:01

Instrument :

MSVOA_N

ClientSampled :

MW-10

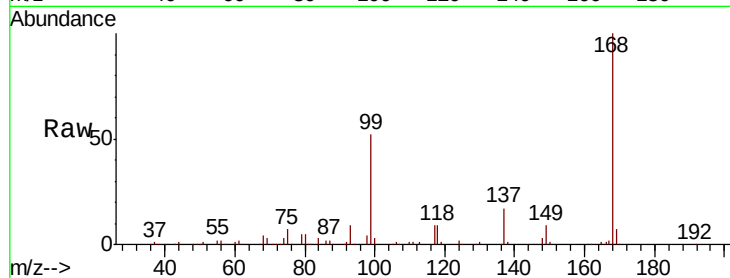
Tot Ion: 56 Resp: 13169

Ion Ratio Lower Upper

56 100

69 176.7 26.2 39.4#

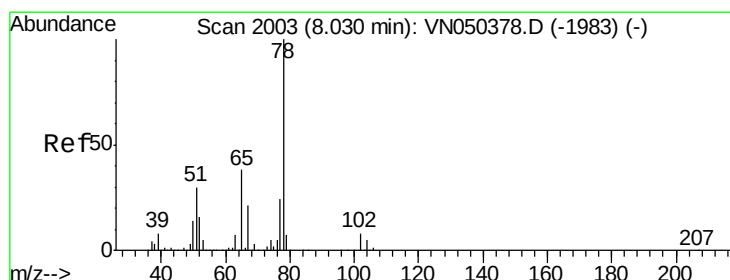
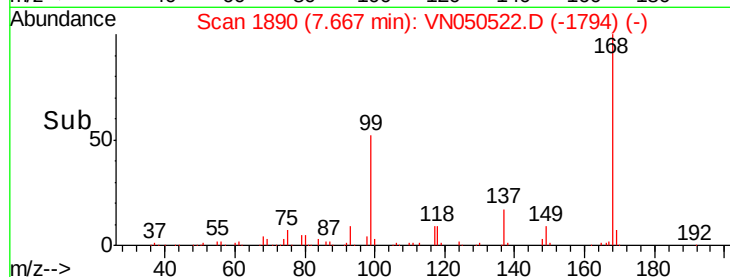
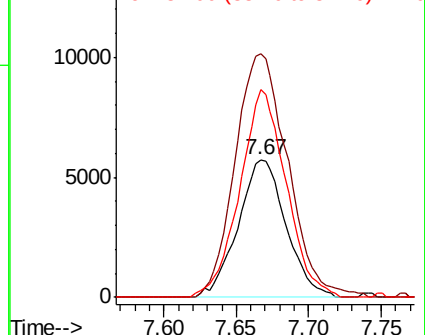
84 150.6 67.4 101.0#



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: 50.65 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. -0.00 min

Lab File: VN050522.D

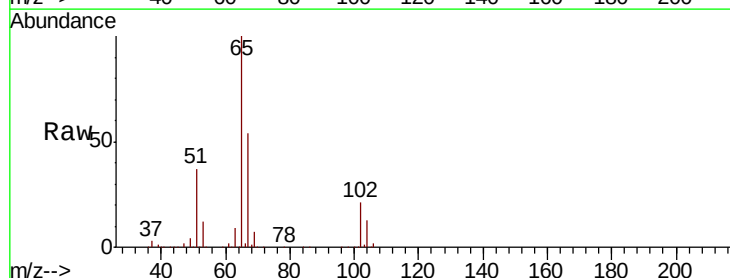
Acq: 10 Aug 2018 17:01

Tgt Ion: 65 Resp: 491022

Ion Ratio Lower Upper

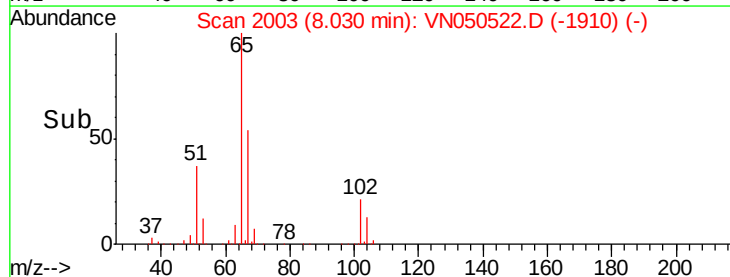
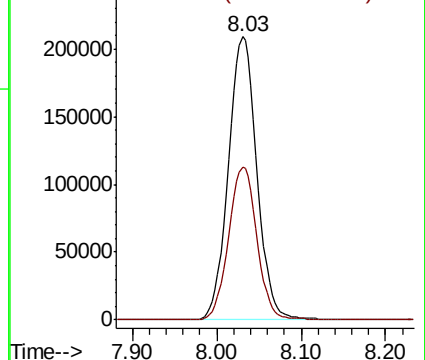
65 100

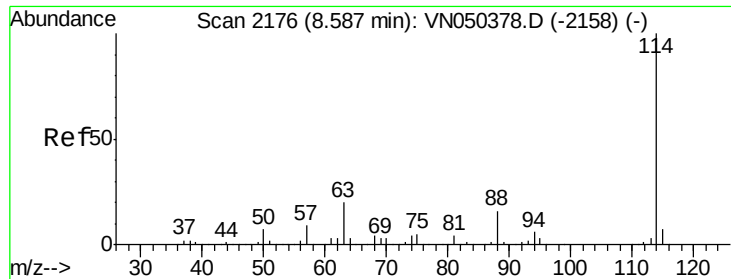
67 53.7 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

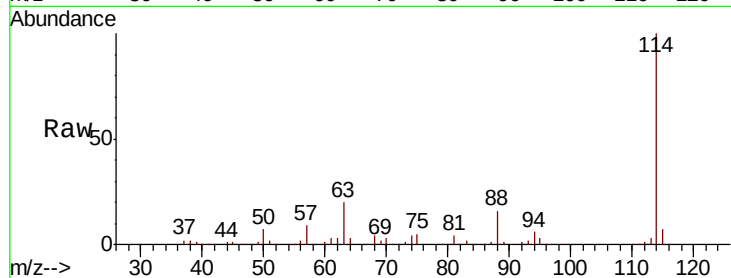




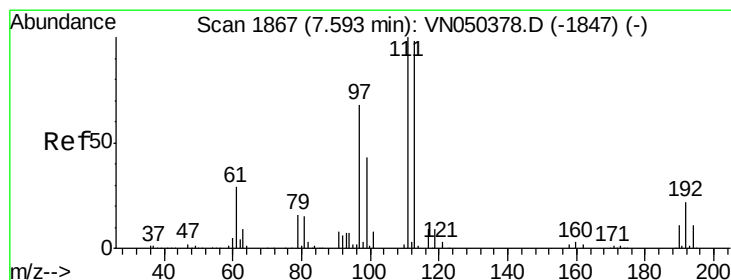
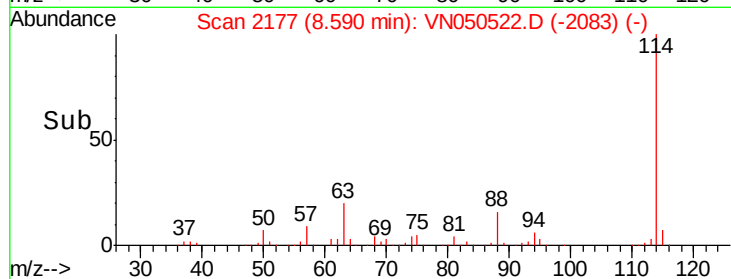
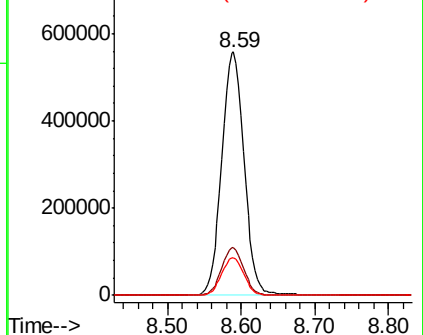
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050522.D
 Acq: 10 Aug 2018 17:01

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-10

Tot Ion:114 Resp: 1180536
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 40.0
 88 15.6 0.0 31.2

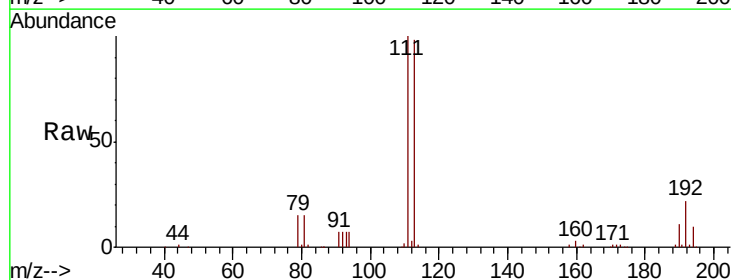


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

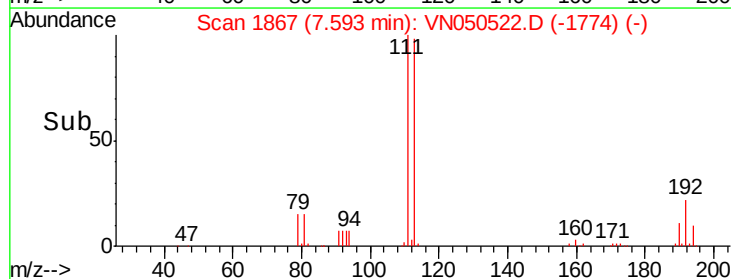
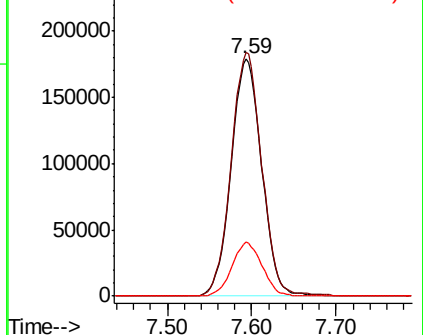


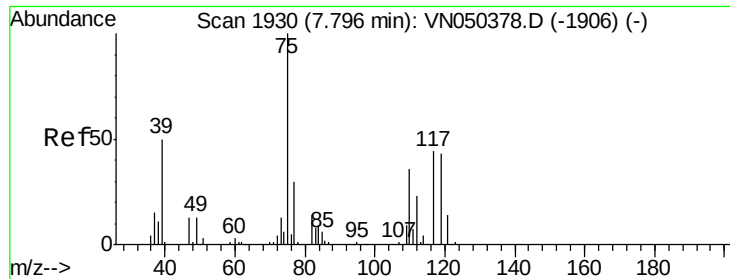
#35
 Dibromofluoromethane
 Concen: 47.78 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050522.D
 Acq: 10 Aug 2018 17:01

Tgt Ion:113 Resp: 452630
 Ion Ratio Lower Upper
 113 100
 111 102.6 80.7 121.1
 192 22.2 17.8 26.6



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





#36

1,1-Dichloropropene

Concen: 3.85 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN050522.D

Acq: 10 Aug 2018 17:01

Instrument :

MSVOA_N

ClientSampled :

MW-10

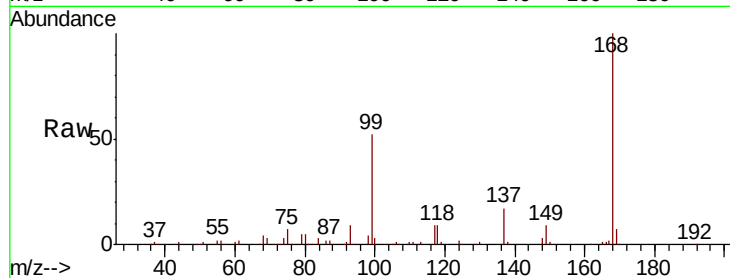
Tot Ion: 75 Resp: 49931

Ion Ratio Lower Upper

75 100

110 8.3 18.4 55.2#

77 0.0 25.3 37.9#



Abundance Ion 74.90 (74.60 to 75.60): VN050378.D (-1906) (-)

Ion 109.90 (109.60 to 110.60): VN050378.D (-1906) (-)

Ion 76.90 (76.60 to 77.60): VN050378.D (-1906) (-)

7.67

25000

20000

15000

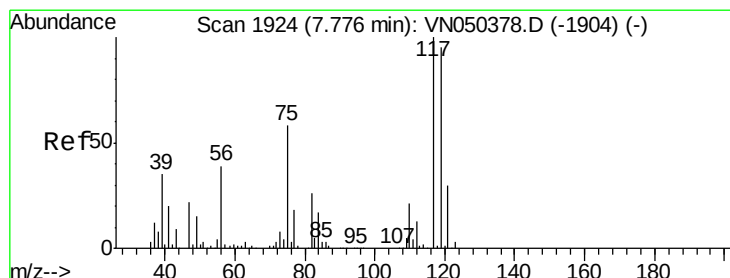
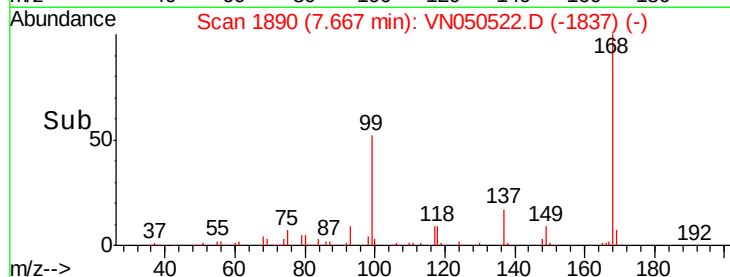
10000

5000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#38

Carbon Tetrachloride

Concen: 4.77 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN050522.D

Acq: 10 Aug 2018 17:01

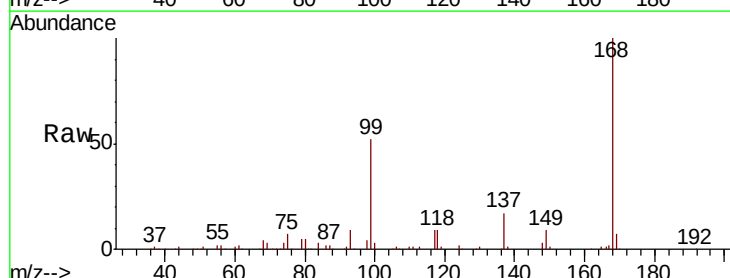
Tgt Ion: 117 Resp: 64525

Ion Ratio Lower Upper

117 100

119 6.2 77.4 116.0#

121 0.0 23.9 35.9#



Abundance Ion 116.80 (116.50 to 117.50): VN050378.D (-1904) (-)

Ion 118.80 (118.50 to 119.50): VN050378.D (-1904) (-)

Ion 120.80 (120.50 to 121.50): VN050378.D (-1904) (-)

7.67

30000

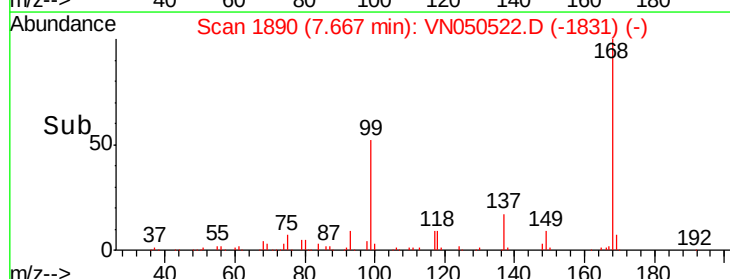
20000

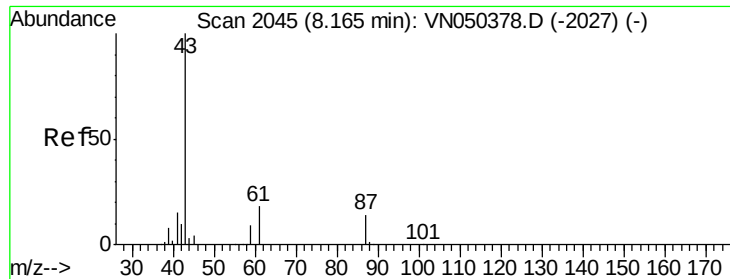
10000

0

7.60 7.65 7.70 7.75

Time-->





#43

Isopropyl Acetate

Concen: 10.23 ug/l

RT: 8.30 min Scan# 2086

Delta R.T. 0.13 min

Lab File: VN050522.D

Acq: 10 Aug 2018 17:01

Instrument :

MSVOA_N

ClientSampleId :

MW-10

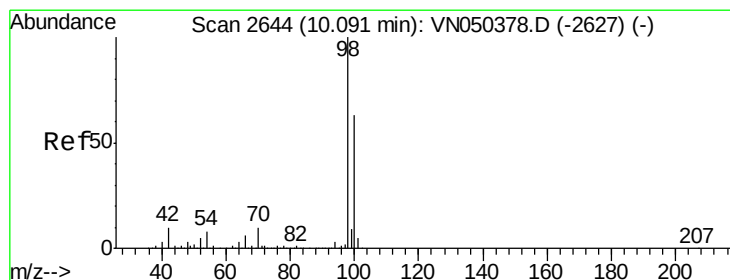
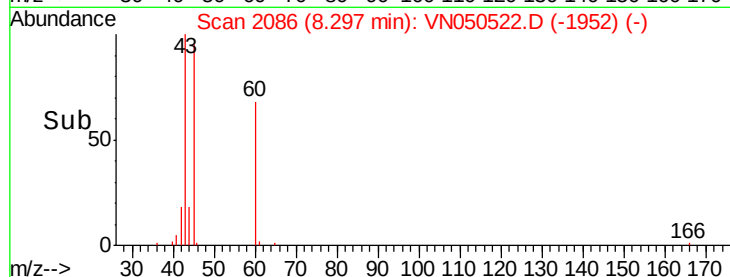
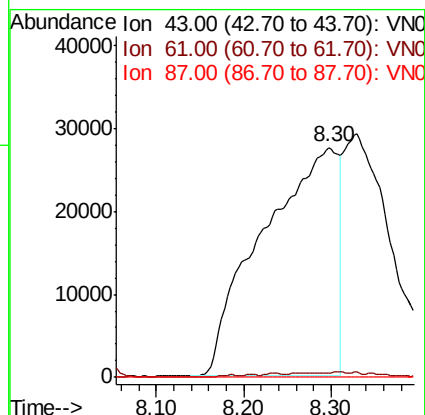
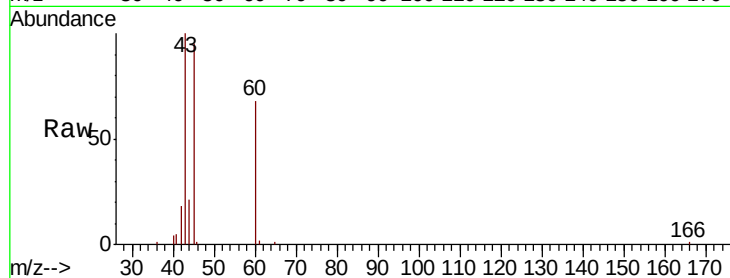
Tot Ion: 43 Resp: 164928

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.6#

87 0.0 10.3 15.5#



#50

Toluene-d8

Concen: 44.26 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050522.D

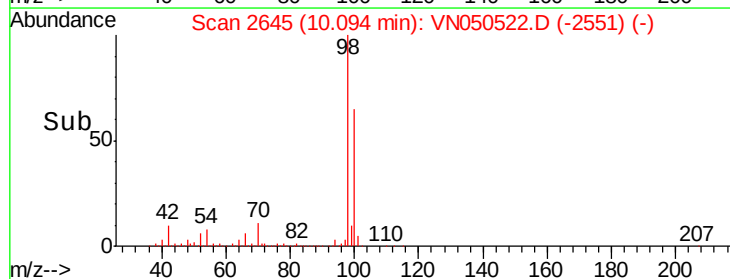
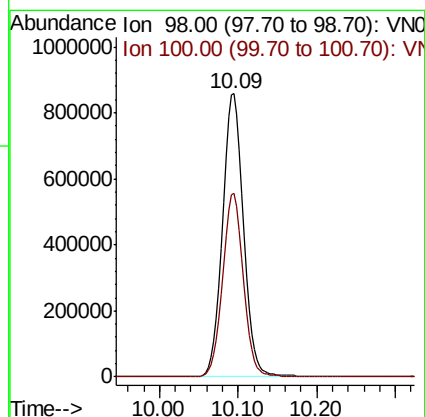
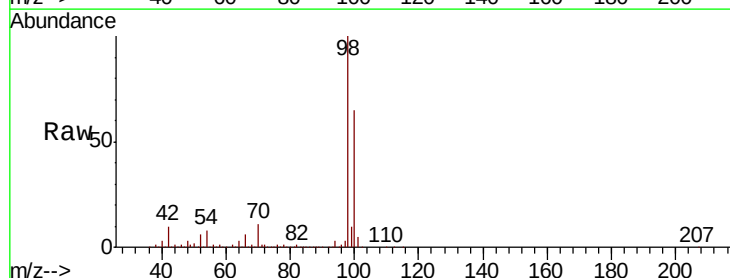
Acq: 10 Aug 2018 17:01

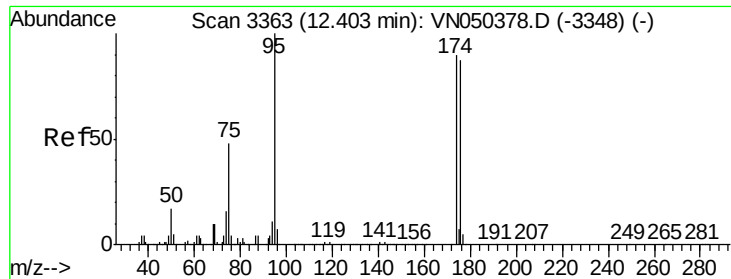
Tgt Ion: 98 Resp: 1576339

Ion Ratio Lower Upper

98 100

100 64.1 50.7 76.1

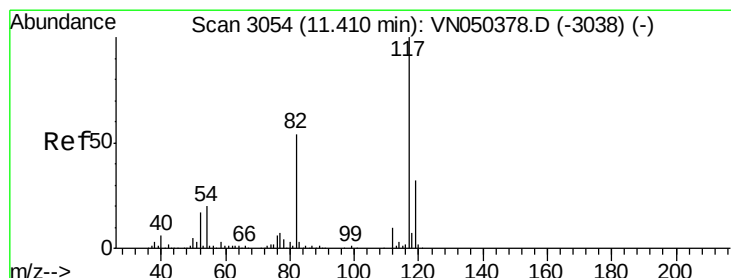
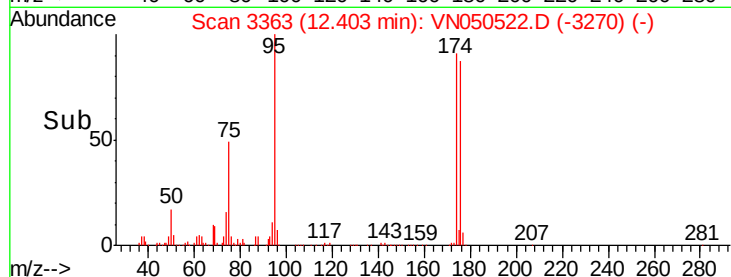
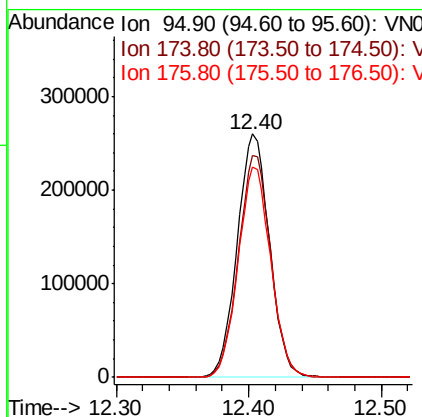
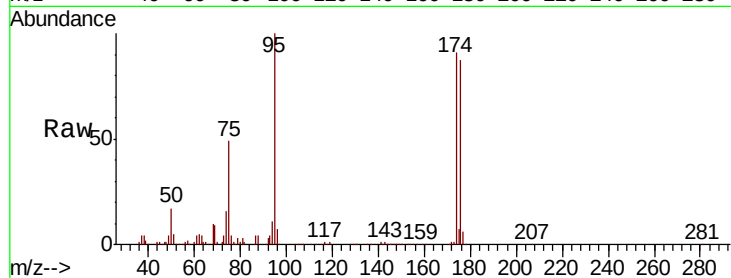




#62
4-Bromofluorobenzene
Concen: 36.17 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. -0.00 min
Lab File: VN050522.D
Acq: 10 Aug 2018 17:01

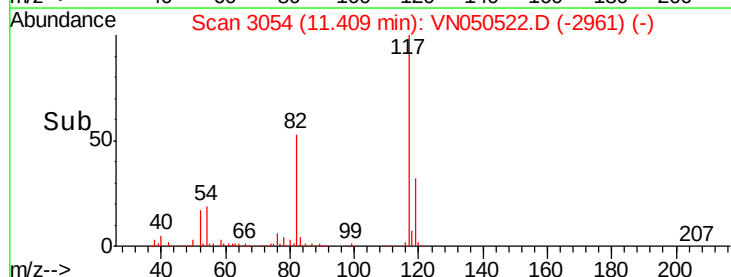
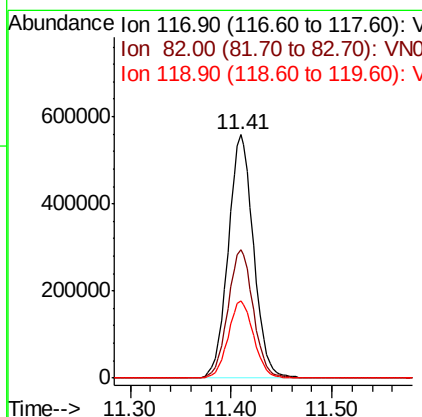
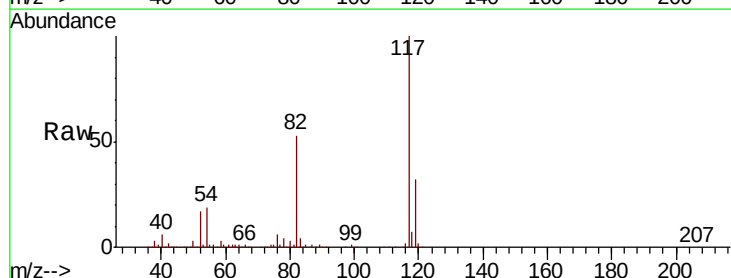
Instrument :
MSVOA_N
ClientSampleId :
MW-10

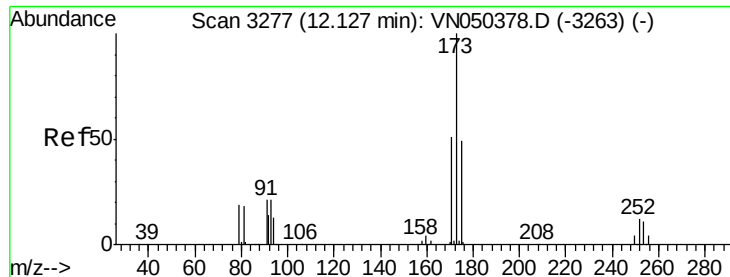
Tot Ion: 95 Resp: 439023
Ion Ratio Lower Upper
95 100
174 91.8 0.0 178.2
176 87.1 0.0 173.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN050522.D
Acq: 10 Aug 2018 17:01

Tgt Ion: 117 Resp: 977313
Ion Ratio Lower Upper
117 100
82 52.9 43.7 65.5
119 31.6 26.1 39.1





#71

Bromoform

Concen: 0.47 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.28 min

Lab File: VN050522.D

Acq: 10 Aug 2018 17:01

Instrument :

MSVOA_N

ClientSampleId :

MW-10

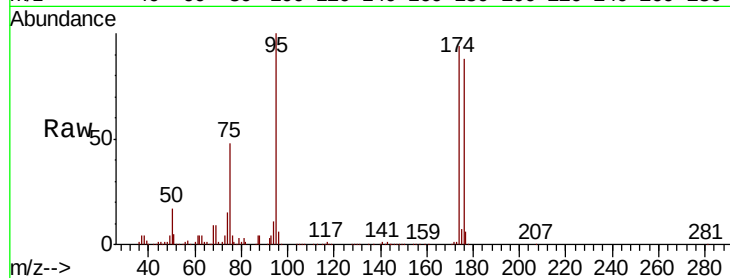
Tot Ion:173 Resp: 3034

Ion Ratio Lower Upper

173 100

175 789.0 24.1 72.2#

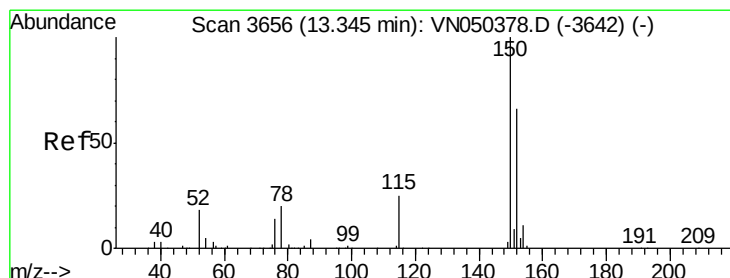
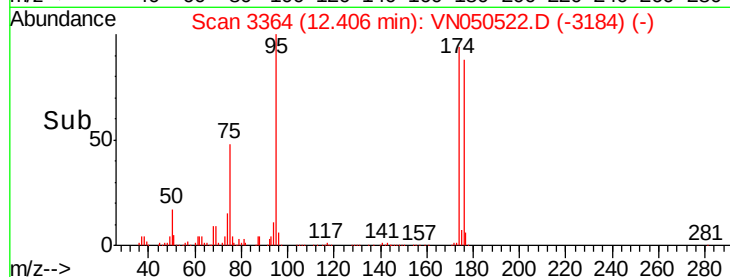
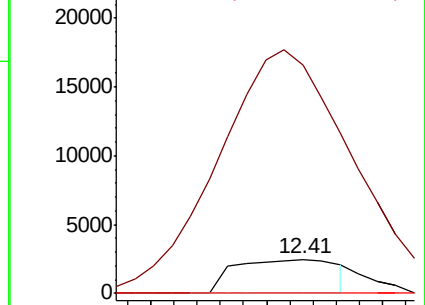
254 0.0 0.2 0.2#



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: VN050522.D

Acq: 10 Aug 2018 17:01

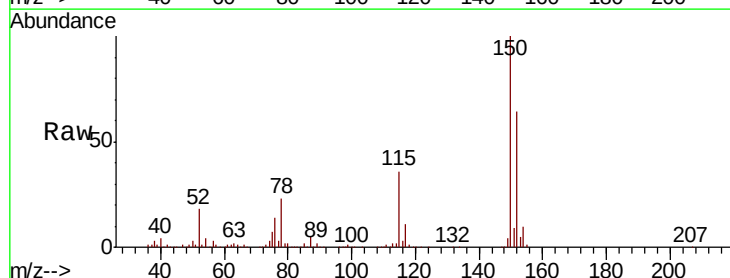
Tgt Ion:152 Resp: 368096

Ion Ratio Lower Upper

152 100

115 55.5 27.8 83.3

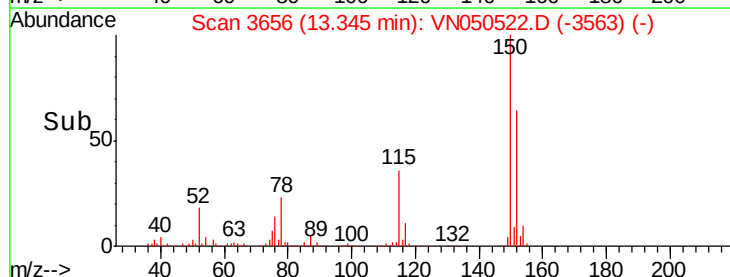
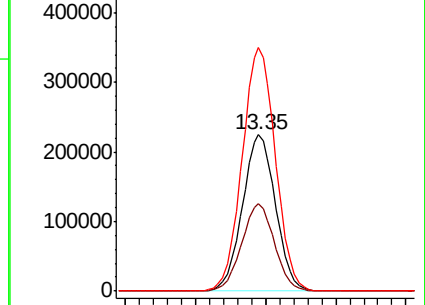
150 156.8 0.0 348.6

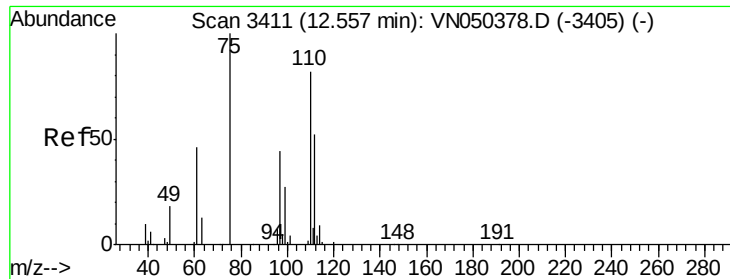


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

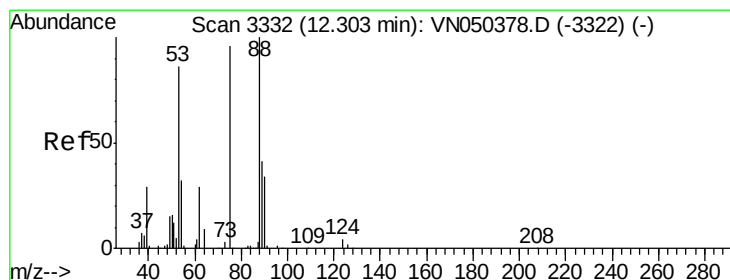
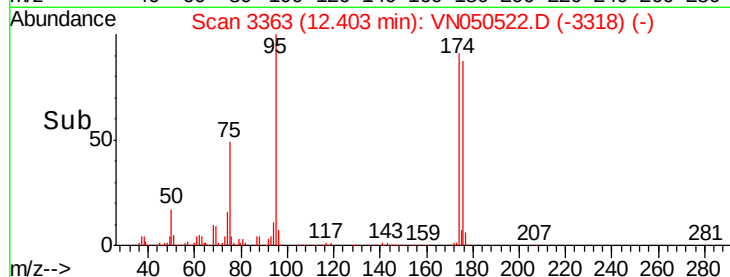
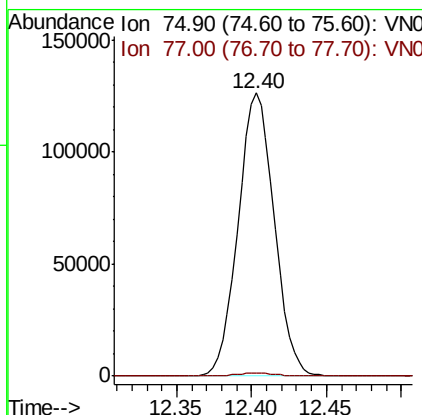
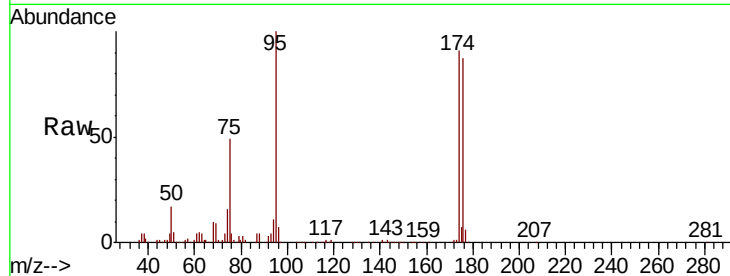




#76
 1,2,3-Trichloropropane
 Concen: 31.87 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. -0.15 min
 Lab File: VN050522.D
 Acq: 10 Aug 2018 17:01

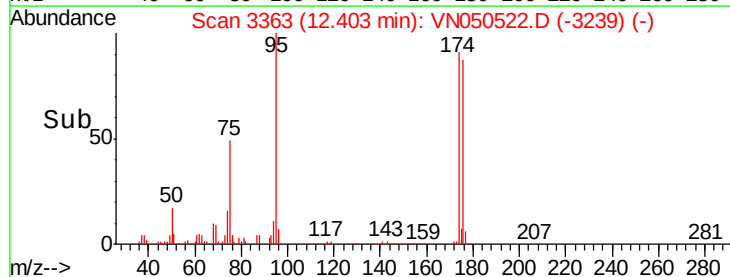
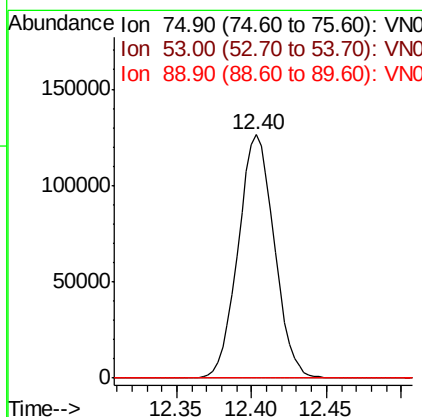
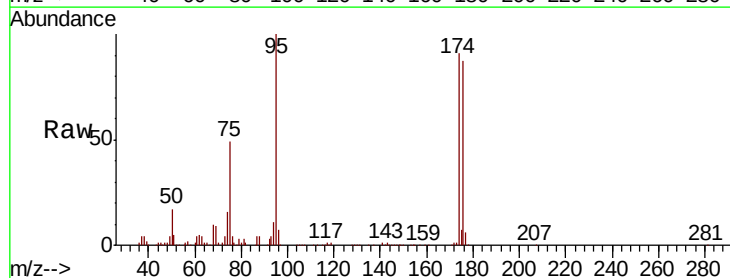
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-10

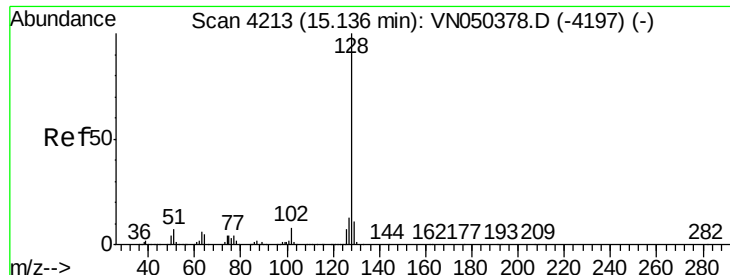
Tot Ion: 75 Resp: 212354
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 111.98 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.10 min
 Lab File: VN050522.D
 Acq: 10 Aug 2018 17:01

Tgt Ion: 75 Resp: 212354
 Ion Ratio Lower Upper
 75 100
 53 0.1 73.5 110.3#
 89 0.0 36.0 54.0#

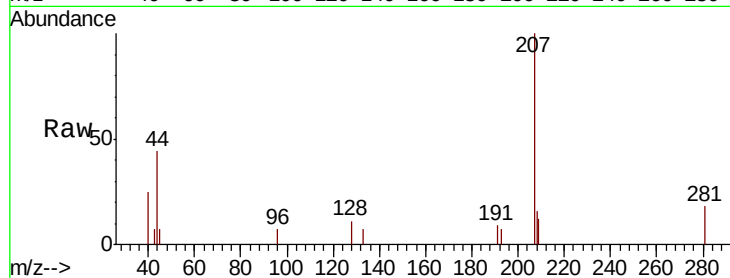




#95
 Naphthalene
 Concen: 3.63 ug/l
 RT: 15.13 min Scan# 4212
 Delta R.T. -0.00 min
 Lab File: VN050522.D
 Acq: 10 Aug 2018 17:01

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-10

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.4	15.6#
129	0.0	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

