

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062718\
 Data File : VN049577.D
 Acq On : 27 Jun 2018 17:22
 Operator : MD\SY
 Sample : PB110627ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 28 01:23:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:02:01 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1163707	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1871675	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1545151	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	624883	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	773951	50.14	ug/l	0.00
Spiked Amount			Recovery	=	100.28%	
35) Dibromofluoromethane	7.59	113	634227	41.88	ug/l	0.00
Spiked Amount			Recovery	=	83.76%	
50) Toluene-d8	10.09	98	2516189	43.64	ug/l	0.00
Spiked Amount			Recovery	=	87.28%	
62) 4-Bromofluorobenzene	12.40	95	728210	38.20	ug/l	0.00
Spiked Amount			Recovery	=	76.40%	

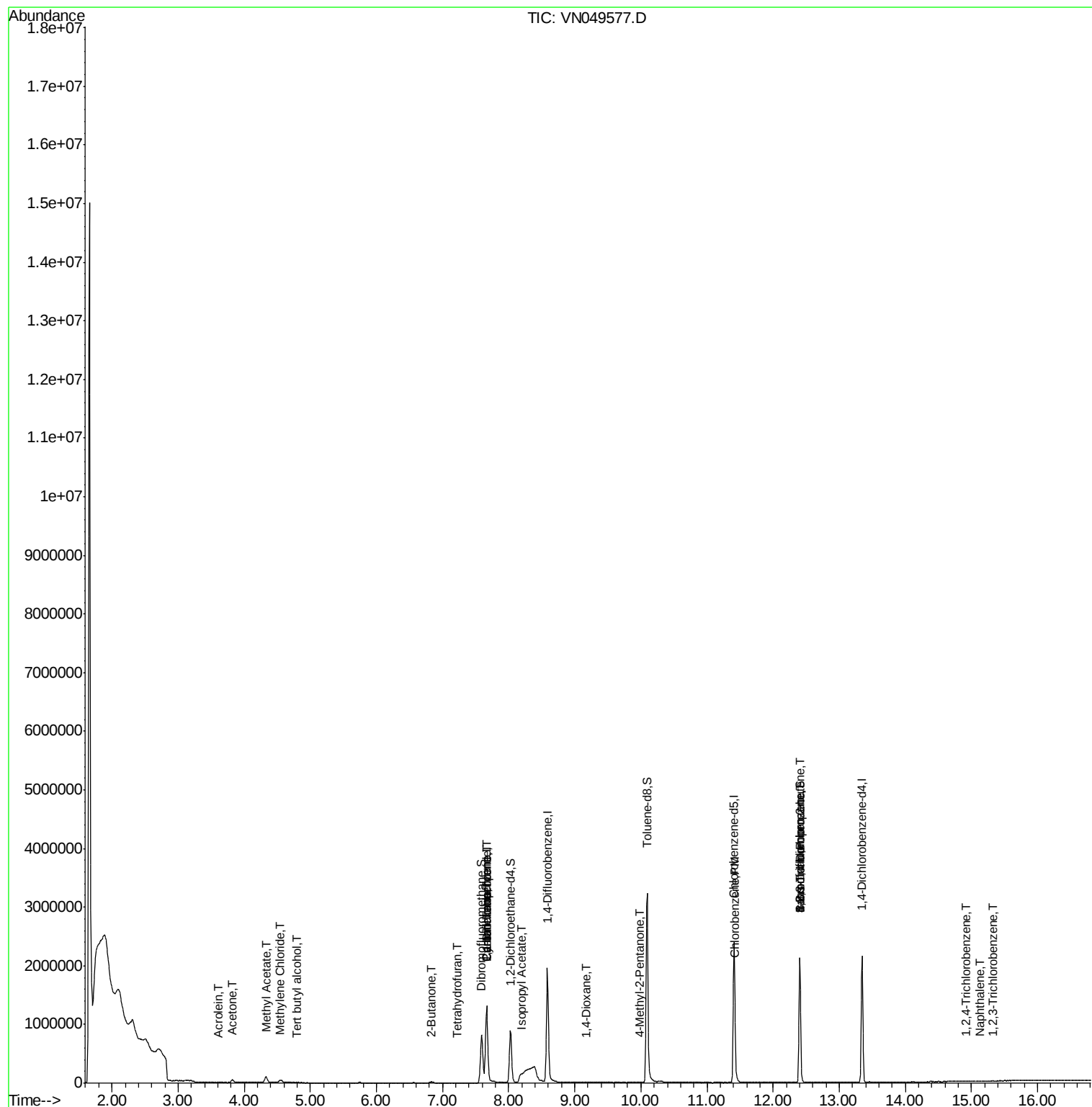
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.79	59	385	0.42	ug/l	# 70
13) Acrolein	3.61	56	2903	3.06	ug/l	# 65
16) Acetone	3.82	43	88065	23.50	ug/l	95
18) Methyl Acetate	4.33	43	186931	16.36	ug/l	97
20) Methylene Chloride	4.55	84	35840	2.29	ug/l	91
25) 2-Butanone	6.84	43	9098	1.81	ug/l	97
29) Tetrahydrofuran	7.23	42	1382	0.43	ug/l	# 54
31) Cyclohexane	7.67	56	21723	0.78	ug/l	# 1
36) 1,1-Dichloropropene	7.66	75	77572	3.62	ug/l	# 51
38) Carbon Tetrachloride	7.66	117	103200	4.65	ug/l	# 18
43) Isopropyl Acetate	8.18	43	98653	4.43	ug/l	# 66
49) 1,4-Dioxane	9.19	88	118	0.81	ug/l	# 21
51) 4-Methyl-2-Pentanone	9.98	43	6833	0.59	ug/l	98
65) Chlorobenzene	11.43	112	19502	0.49	ug/l	93
71) Bromoform	12.41	173	4911	0.51	ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	12.57	83	106	Below	Cal	# 26
76) 1,2,3-Trichloropropane	12.40	75	351275	32.95	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	351275	104.13	ug/l	# 9
90) Hexachloroethane	13.94	117	29	Below	Cal	# 9
93) 1,2,4-Trichlorobenzene	14.91	180	440	4.78	ug/l	# 47
95) Naphthalene	15.14	128	1444	2.16	ug/l	# 87
96) 1,2,3-Trichlorobenzene	15.32	180	390	3.49	ug/l	# 40

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

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Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:02:01 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN049577.D

Acq: 27 Jun 2018 17:22

Instrument :

MSVOA_N

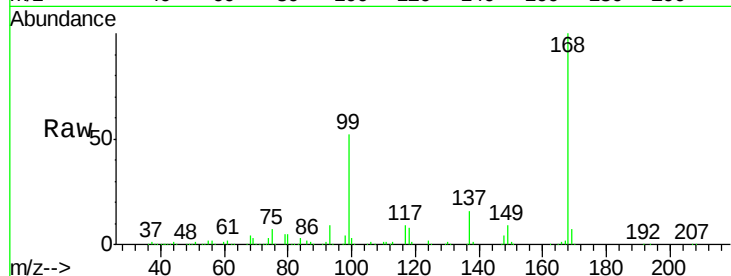
ClientSampleId :

Tot Ion:168 Resp: 1163707

Ion Ratio Lower Upper

168 100

99 52.5 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

500000

400000

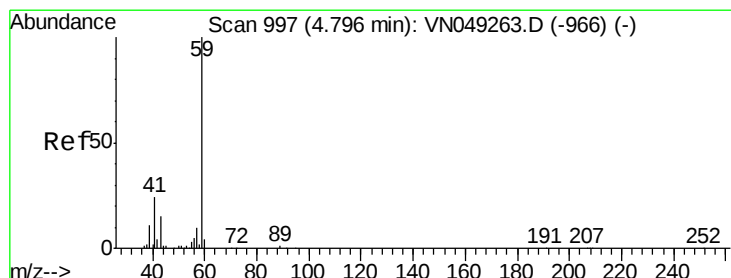
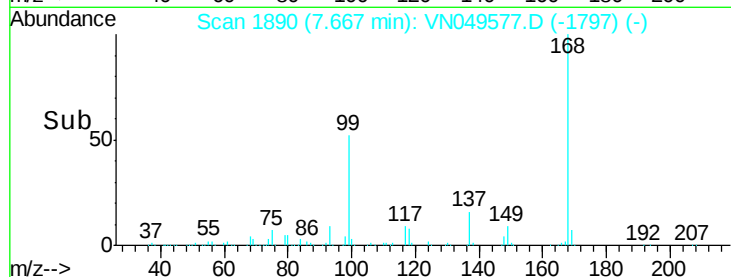
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.42 ug/l

RT: 4.79 min Scan# 996

Delta R.T. -0.00 min

Lab File: VN049577.D

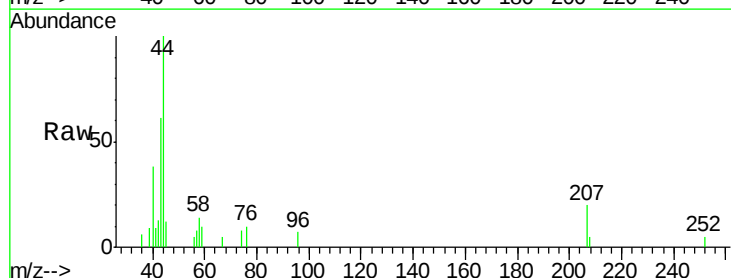
Acq: 27 Jun 2018 17:22

Tgt Ion: 59 Resp: 385

Ion Ratio Lower Upper

59 100

57 22.6 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.79

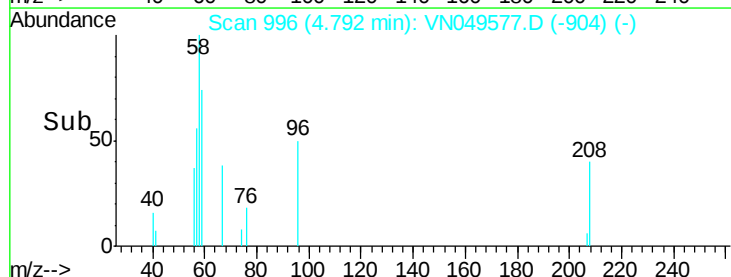
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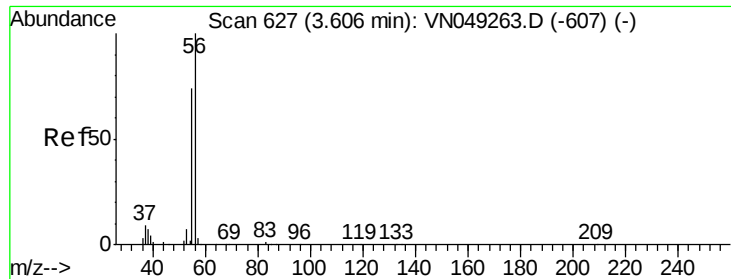
200

100

0

Time-->





#13

Acrolein

Concen: 3.06 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.01 min

Lab File: VN049577.D

Acq: 27 Jun 2018 17:22

Instrument :

MSVOA_N

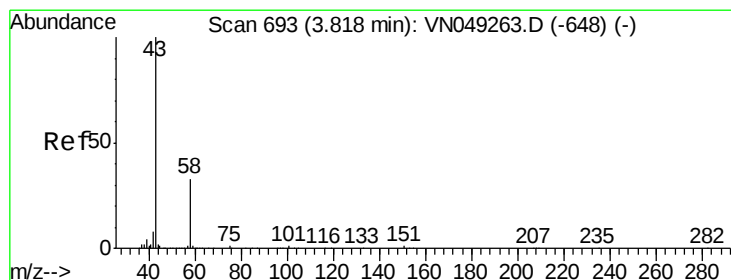
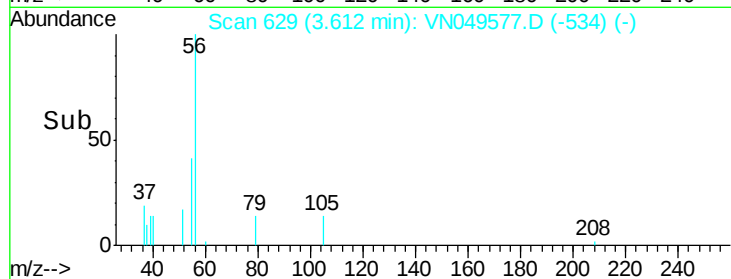
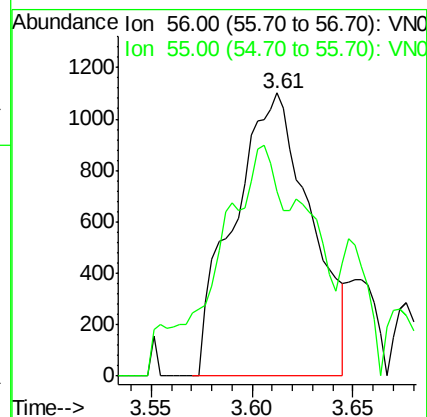
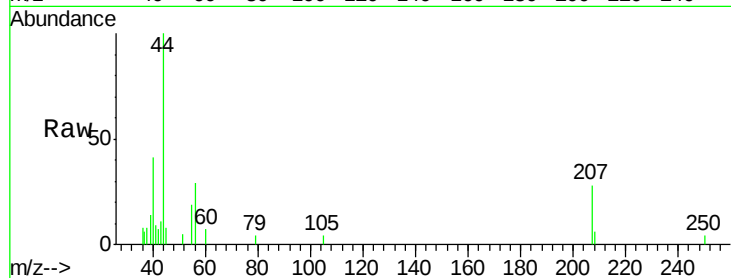
ClientSampled :

Tot Ion: 56 Resp: 2903

Ion Ratio Lower Upper

56 100

55 42.3 57.1 85.7#



#16

Acetone

Concen: 23.50 ug/l

RT: 3.82 min Scan# 694

Delta R.T. 0.00 min

Lab File: VN049577.D

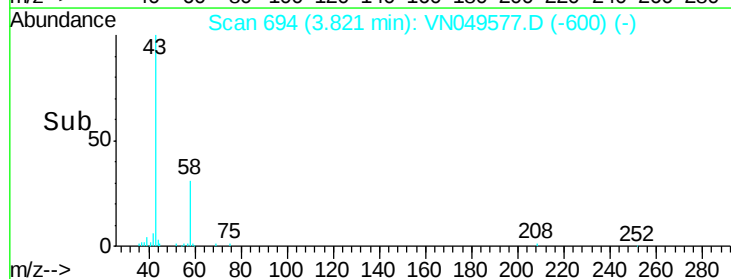
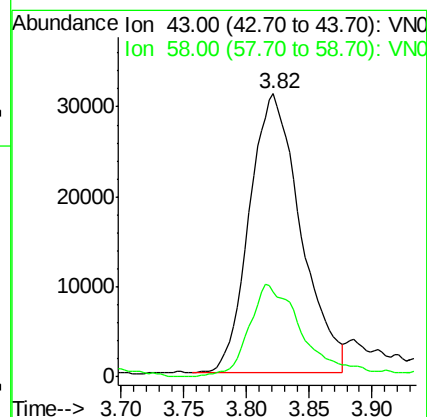
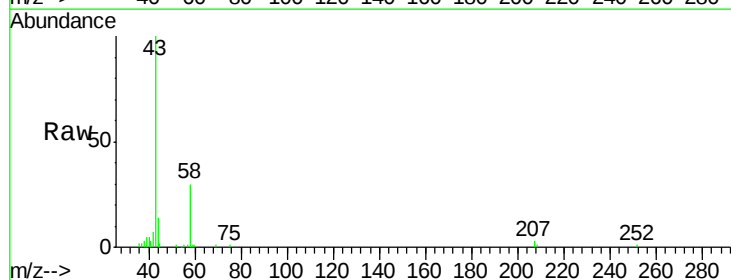
Acq: 27 Jun 2018 17:22

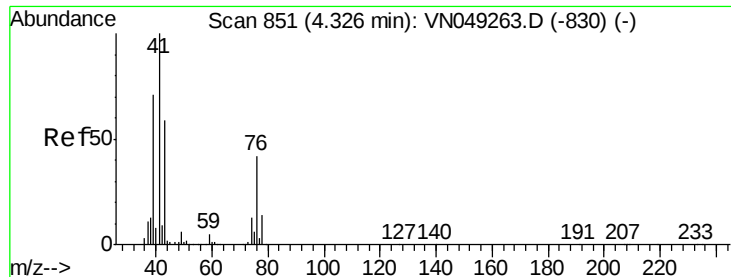
Tgt Ion: 43 Resp: 88065

Ion Ratio Lower Upper

43 100

58 30.7 22.4 33.6

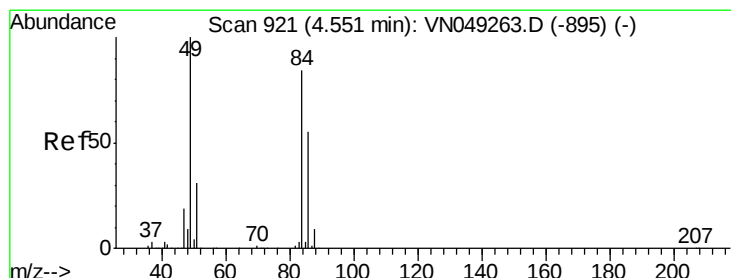
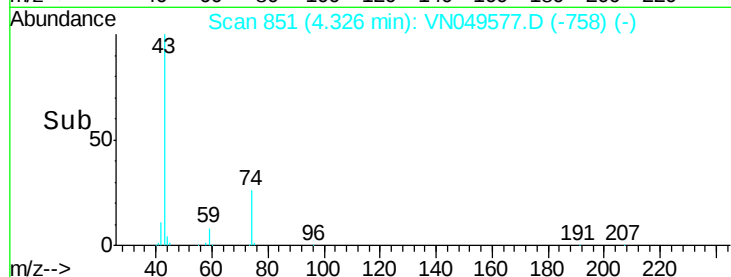
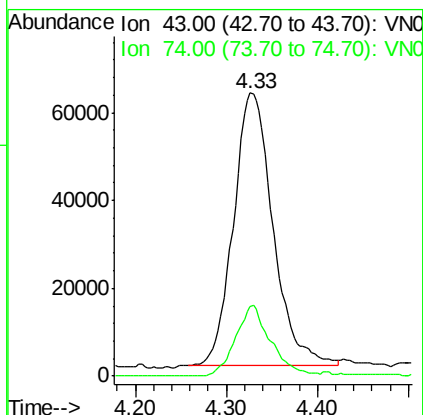
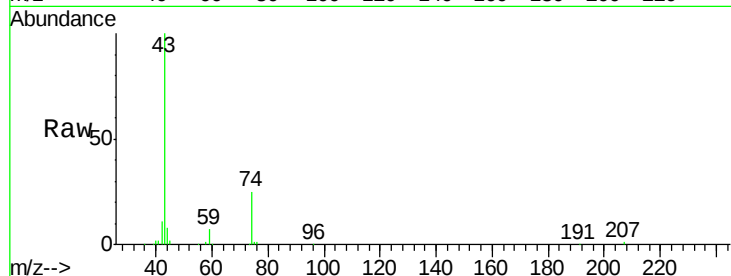




#18
Methvl Acetate
Concen: 16.36 ug/l
RT: 4.33 min Scan# 851
Delta R.T. -0.00 min
Lab File: VN049577.D
Acq: 27 Jun 2018 17:22

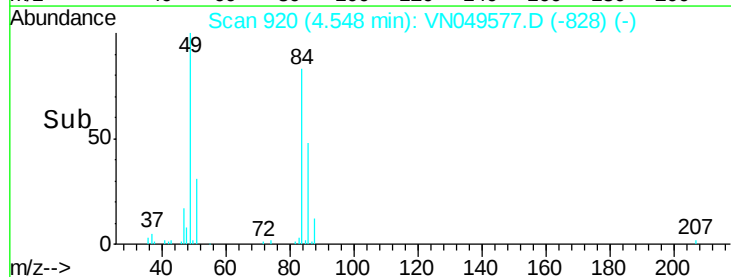
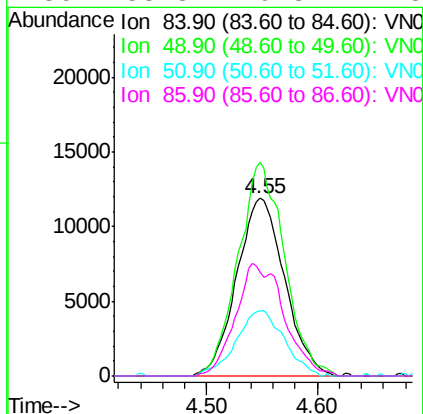
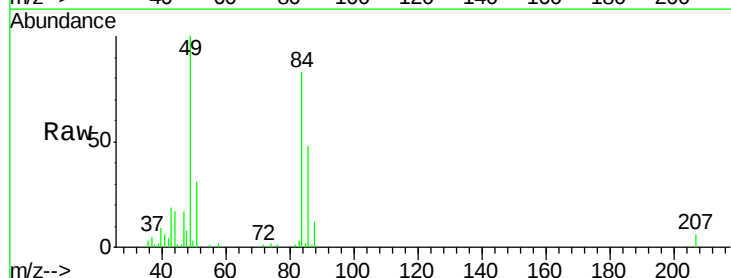
Instrument :
MSVOA_N
ClientSampleId :

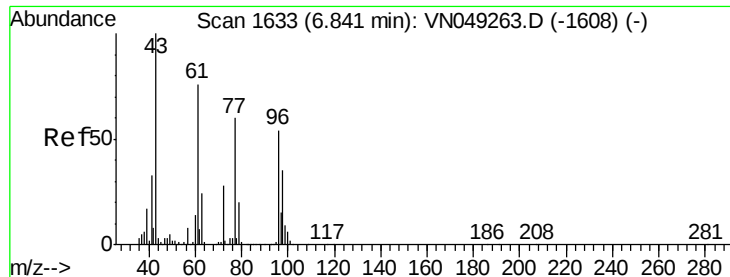
Tot Ion: 43 Resp: 186931
Ion Ratio Lower Upper
43 100
74 23.2 17.4 26.0



#20
Methylene Chloride
Concen: 2.29 ug/l
RT: 4.55 min Scan# 920
Delta R.T. -0.00 min
Lab File: VN049577.D
Acq: 27 Jun 2018 17:22

Tgt Ion: 84 Resp: 35840
Ion Ratio Lower Upper
84 100
49 120.3 106.9 160.3
51 36.7 32.7 49.1
86 58.3 49.8 74.8

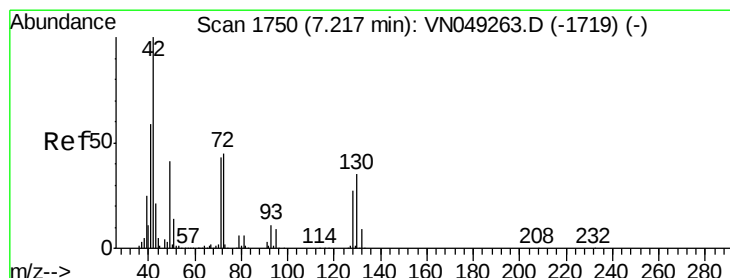
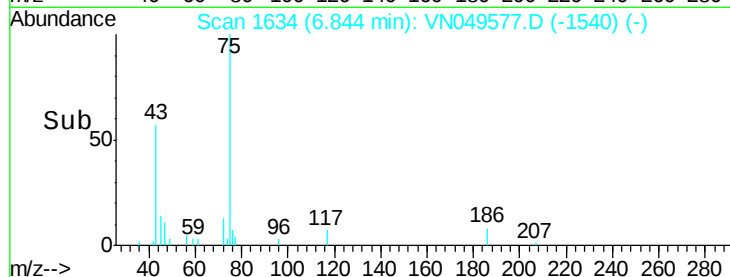
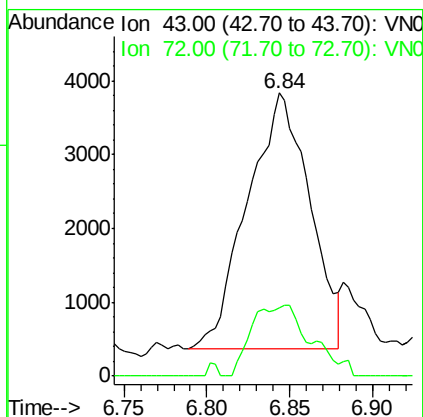
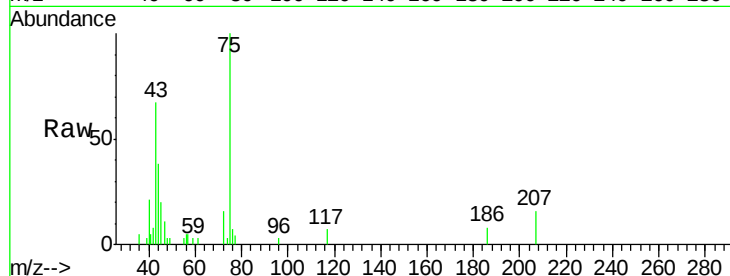




#25
2-Butanone
Concen: 1.81 ug/l
RT: 6.84 min Scan# 1634
Delta R.T. 0.00 min
Lab File: VN049577.D
Acq: 27 Jun 2018 17:22

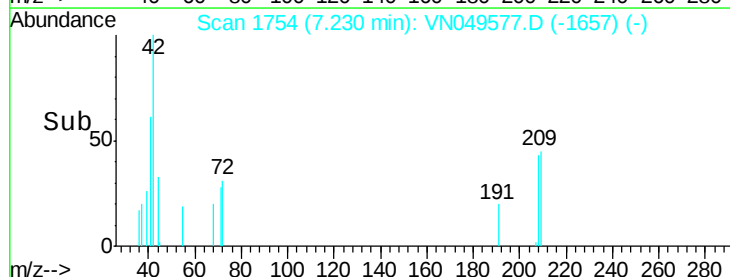
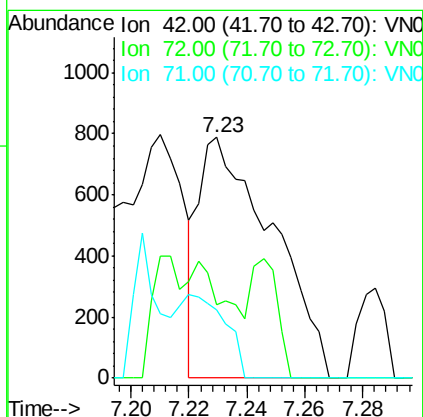
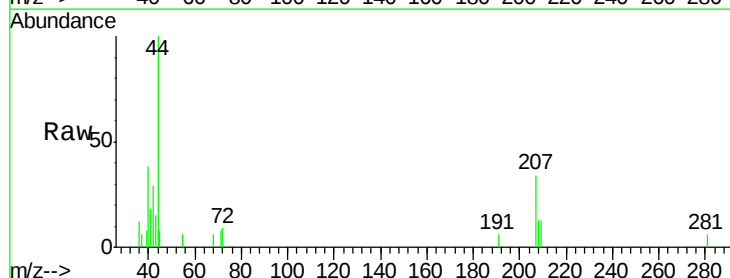
Instrument :
MSVOA_N
ClientSampleId :

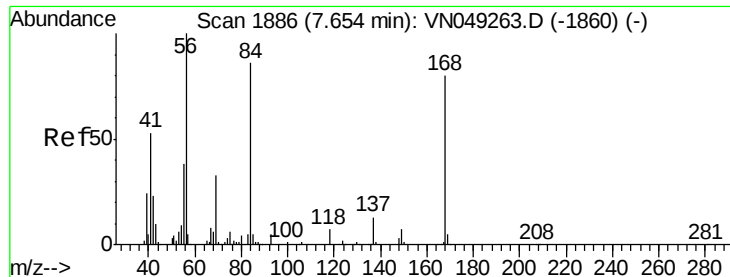
Tot Ion: 43 Resp: 9098
Ion Ratio Lower Upper
43 100
72 26.6 20.2 30.2



#29
Tetrahydrofuran
Concen: 0.43 ug/l
RT: 7.23 min Scan# 1754
Delta R.T. 0.01 min
Lab File: VN049577.D
Acq: 27 Jun 2018 17:22

Tgt Ion: 42 Resp: 1382
Ion Ratio Lower Upper
42 100
72 0.0 32.2 48.4#
71 22.0 30.5 45.7#





#31

Cyclohexane

Concen: 0.78 ug/l

RT: 7.67 min Scan# 1890

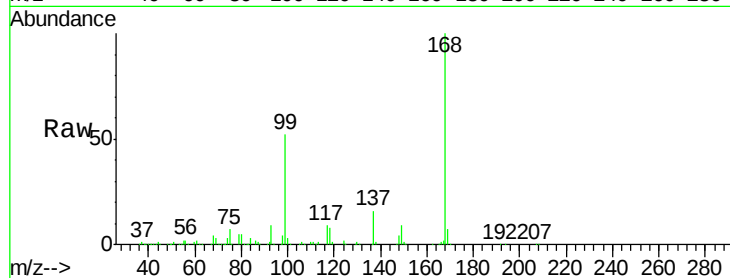
Delta R.T. 0.01 min

Lab File: VN049577.D

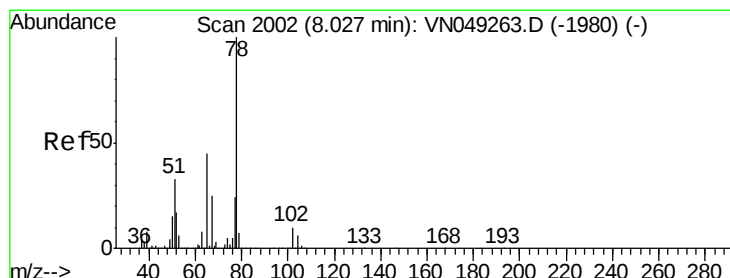
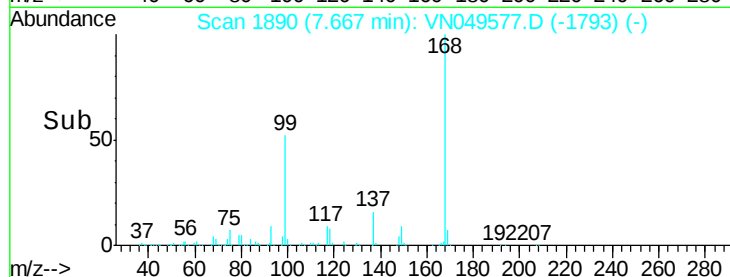
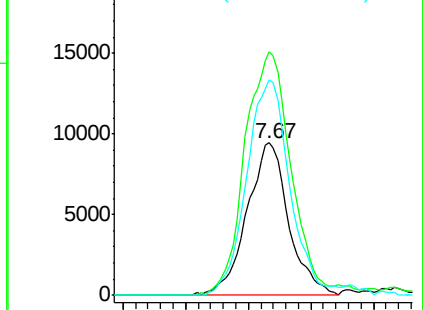
Acq: 27 Jun 2018 17:22

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:	56	Resp:	21723
Ion	Ratio	Lower	Upper
56	100		
69	159.6	25.0	37.4#
84	141.1	64.6	96.8#



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: 50.14 ug/l

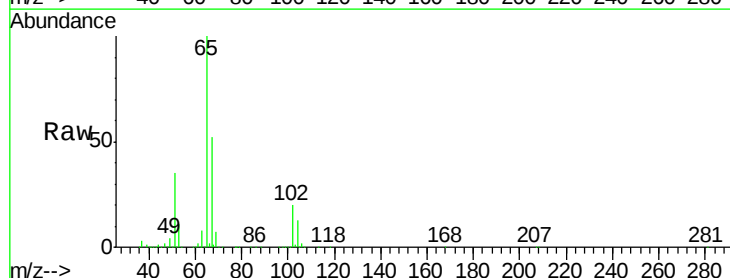
RT: 8.03 min Scan# 2002

Delta R.T. -0.00 min

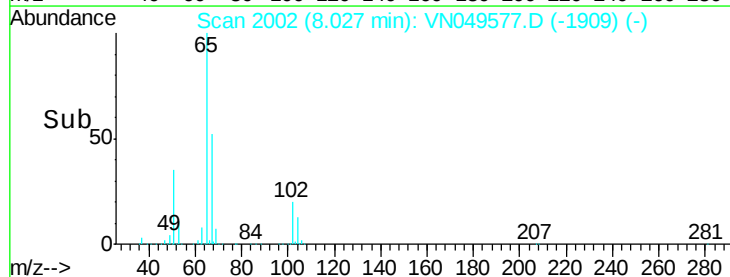
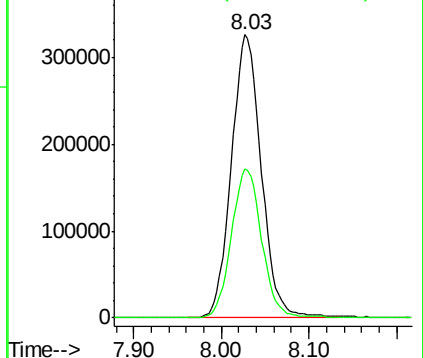
Lab File: VN049577.D

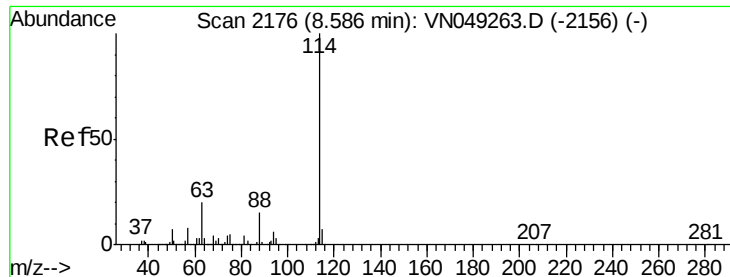
Acq: 27 Jun 2018 17:22

Tgt Ion:	65	Resp:	773951
Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	103.8



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

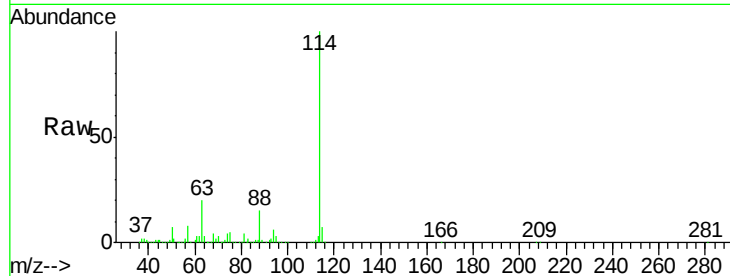




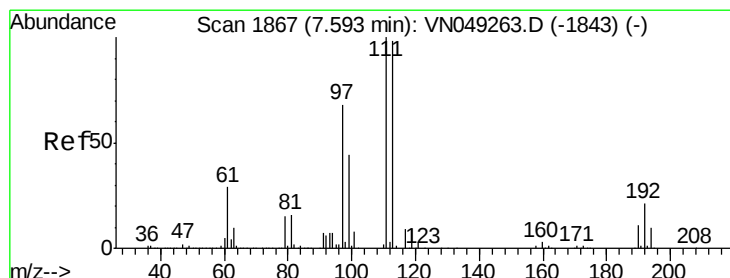
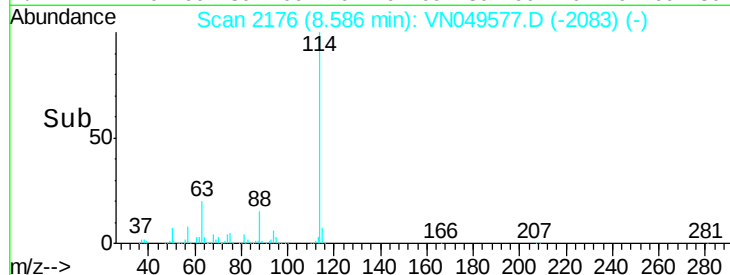
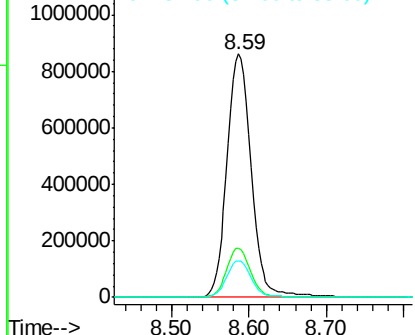
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.59 min Scan# 2176
Delta R.T. -0.00 min
Lab File: VN049577.D
Acq: 27 Jun 2018 17:22

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:114 Resp: 1871675
Ion Ratio Lower Upper
114 100
63 20.3 0.0 44.4
88 15.0 0.0 31.4

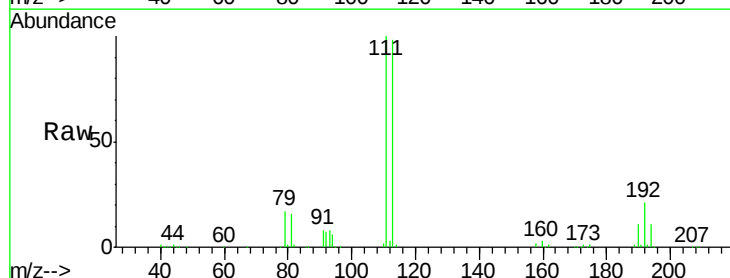


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): V
Ion 87.90 (87.60 to 88.60): V

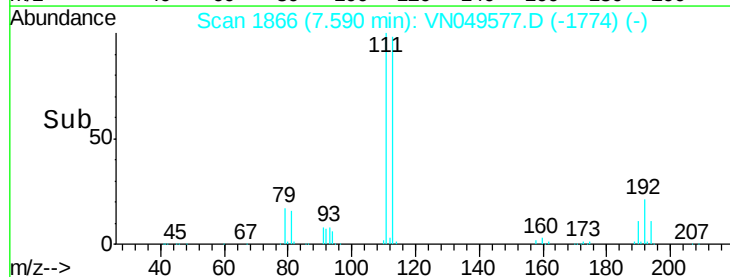
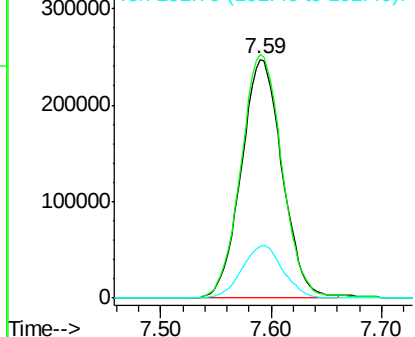


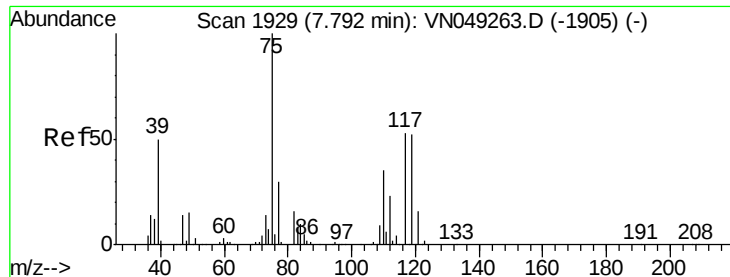
#35
Dibromofluoromethane
Concen: 41.88 ug/l
RT: 7.59 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN049577.D
Acq: 27 Jun 2018 17:22

Tgt Ion:113 Resp: 634227
Ion Ratio Lower Upper
113 100
111 102.6 82.4 123.6
192 22.3 15.0 22.6



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: 3.62 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. -0.13 min

Lab File: VN049577.D

Acq: 27 Jun 2018 17:22

Instrument :
MSVOA_N
ClientSampleId :

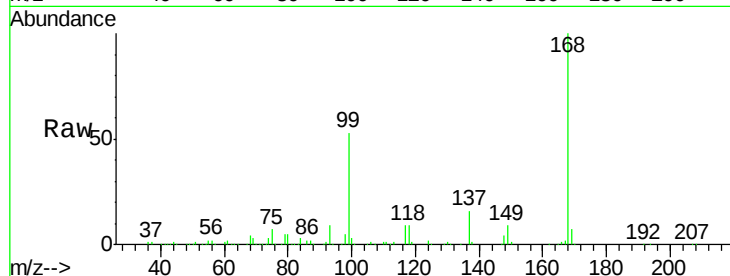
Tot Ion: 75 Resp: 77572

Ion Ratio Lower Upper

75 100

110 8.8 17.0 50.9#

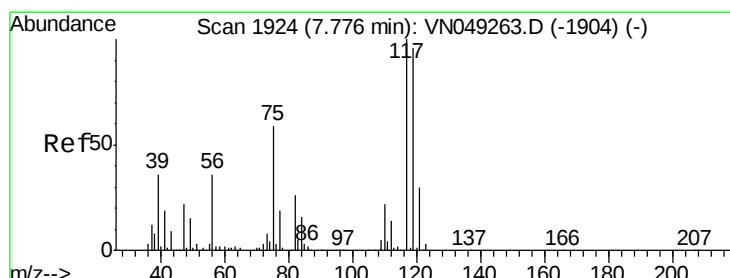
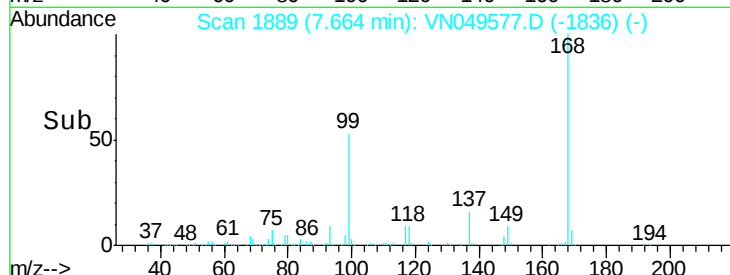
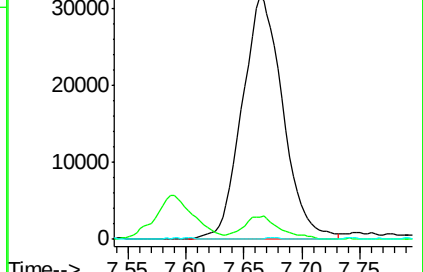
77 0.2 24.4 36.6#



Abundance Ion 74.90 (74.60 to 75.60): VN049263.D (-1905) (-)

Ion 109.90 (109.60 to 110.60): VN049263.D (-1905) (-)

Ion 76.90 (76.60 to 77.60): VN049263.D (-1905) (-)



#38

Carbon Tetrachloride

Concen: 4.65 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. -0.11 min

Lab File: VN049577.D

Acq: 27 Jun 2018 17:22

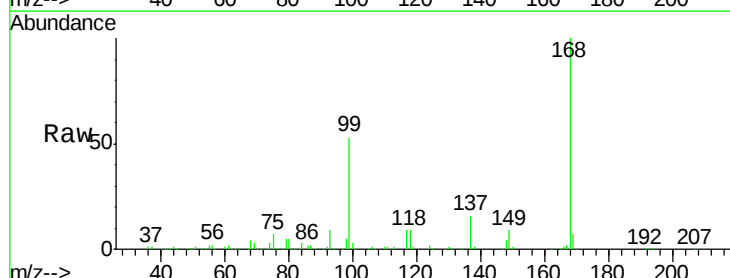
Tgt Ion: 117 Resp: 103200

Ion Ratio Lower Upper

117 100

119 6.9 75.6 113.4#

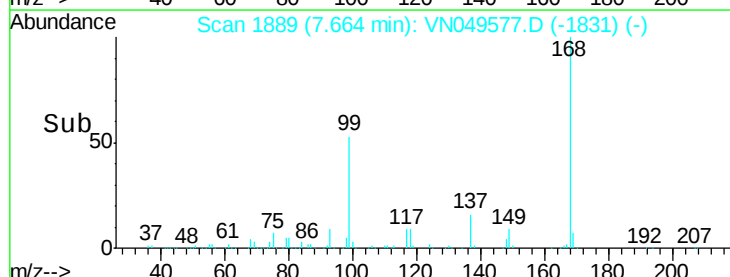
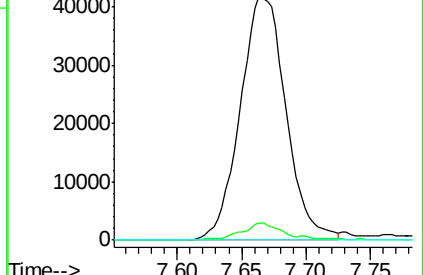
121 0.0 24.7 37.1#

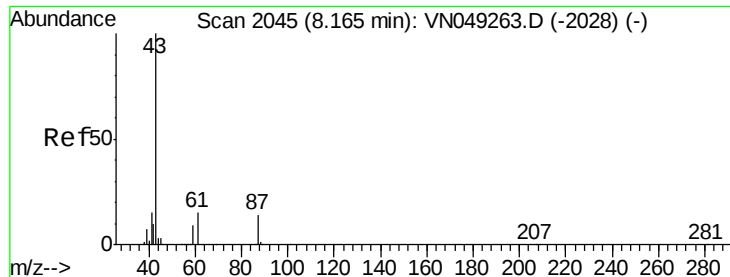


Abundance Ion 116.80 (116.50 to 117.50): VN049263.D (-1904) (-)

Ion 118.80 (118.50 to 119.50): VN049263.D (-1904) (-)

Ion 120.80 (120.50 to 121.50): VN049263.D (-1904) (-)





#43

Isopropyl Acetate

Concen: 4.43 ug/l

RT: 8.18 min Scan# 2051

Delta R.T. 0.02 min

Lab File: VN049577.D

Acq: 27 Jun 2018 17:22

Instrument :

MSVOA_N

ClientSampled :

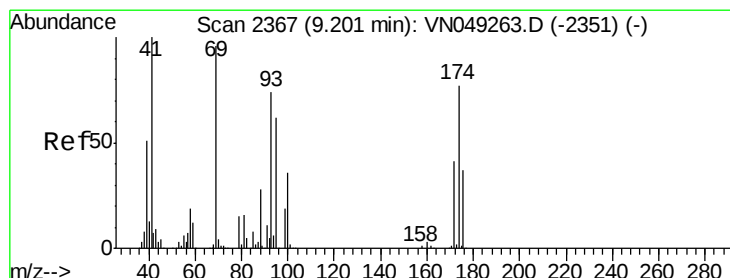
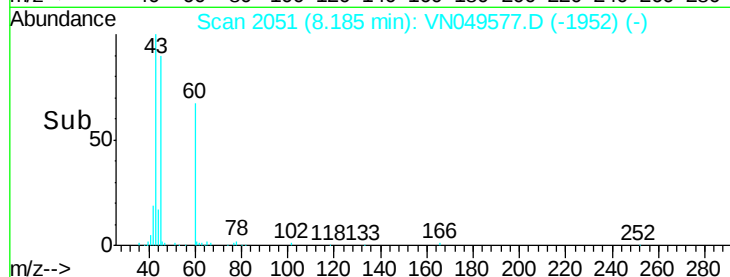
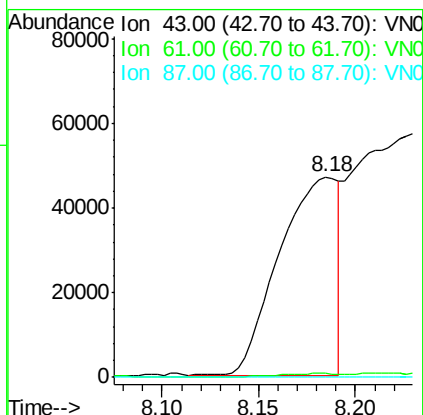
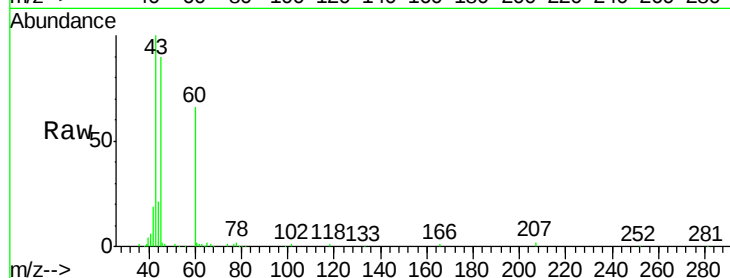
Tot Ion: 43 Resp: 98653

Ion Ratio Lower Upper

43 100

61 2.0 14.2 21.4#

87 0.0 9.4 14.0#



#49

1,4-Dioxane

Concen: 0.81 ug/l

RT: 9.19 min Scan# 2363

Delta R.T. -0.01 min

Lab File: VN049577.D

Acq: 27 Jun 2018 17:22

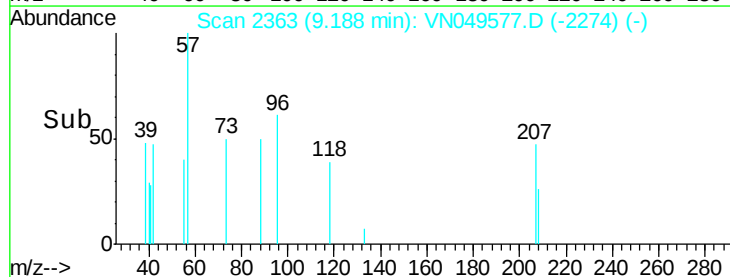
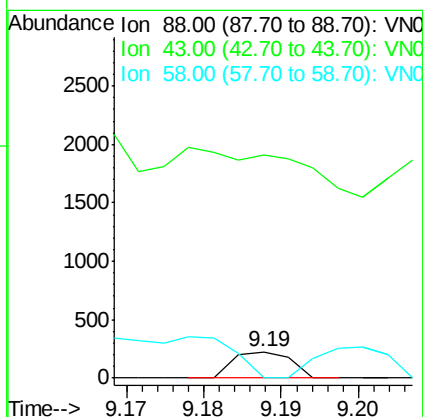
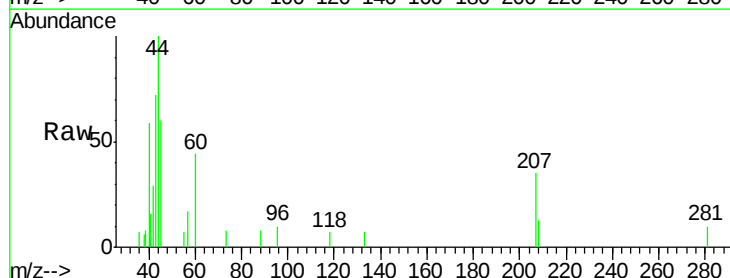
Tgt Ion: 88 Resp: 118

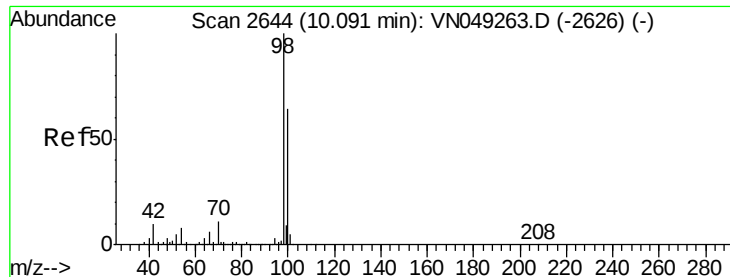
Ion Ratio Lower Upper

88 100

43 0.0 30.9 46.3#

58 0.0 58.9 88.3#

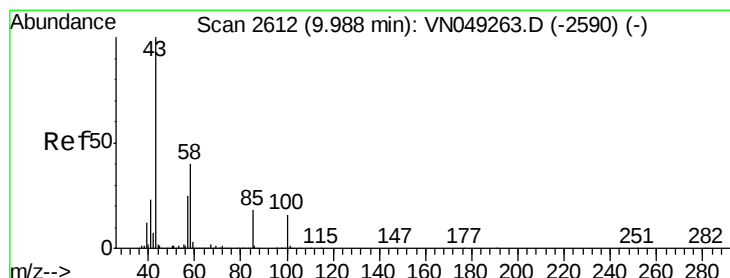
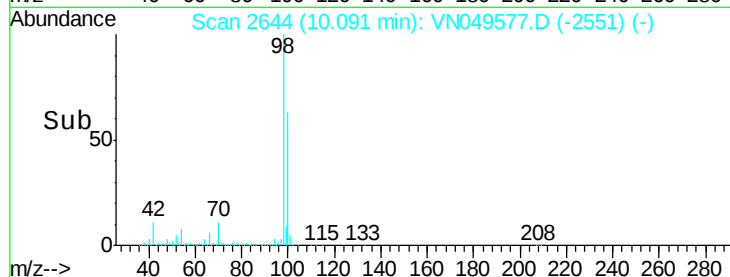
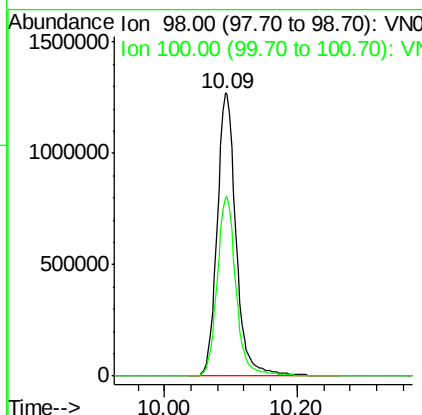
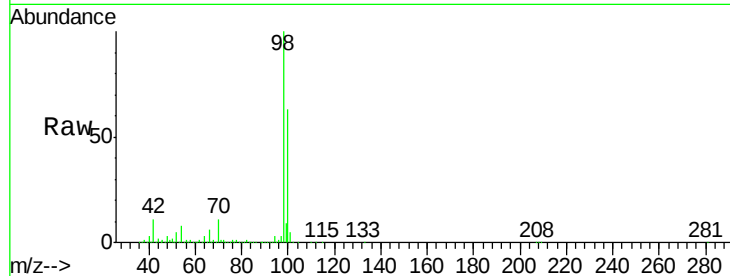




#50
Toluene-d8
Concen: 43.64 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN049577.D
Acq: 27 Jun 2018 17:22

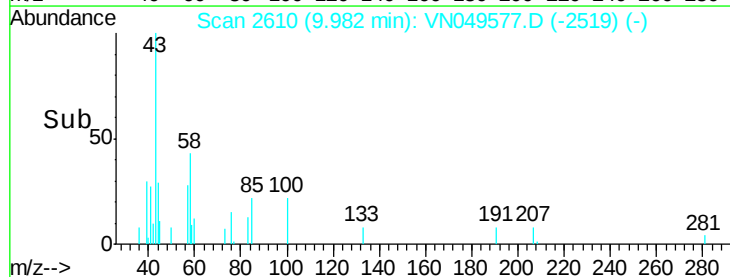
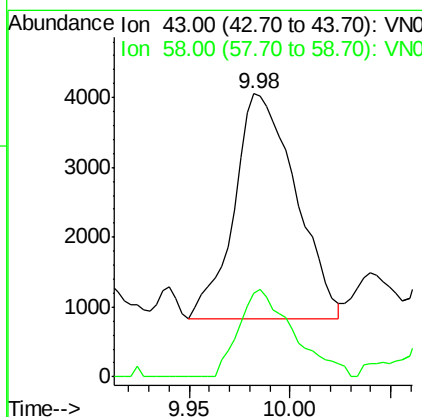
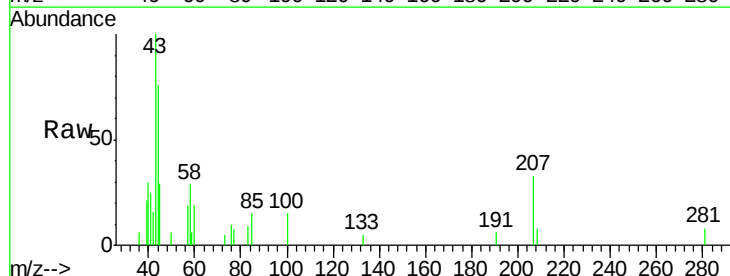
Instrument :
MSVOA_N
ClientSampled :

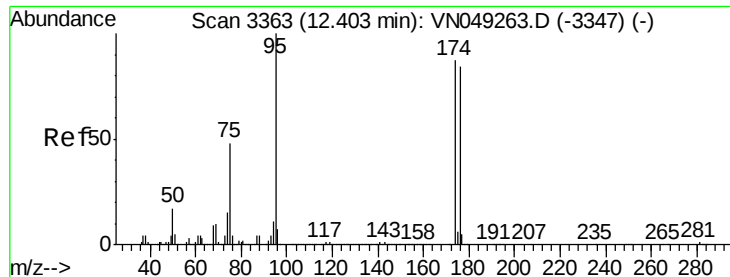
Tot Ion: 98 Resp: 2516189
Ion Ratio Lower Upper
98 100
100 63.4 49.8 74.8



#51
4-Methyl-2-Pentanone
Concen: 0.59 ug/l
RT: 9.98 min Scan# 2610
Delta R.T. -0.01 min
Lab File: VN049577.D
Acq: 27 Jun 2018 17:22

Tgt Ion: 43 Resp: 6833
Ion Ratio Lower Upper
43 100
58 34.8 29.0 43.6





#62

4-Bromofluorobenzene

Concen: 38.20 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049577.D

Acq: 27 Jun 2018 17:22

Instrument :

MSVOA_N

ClientSampled :

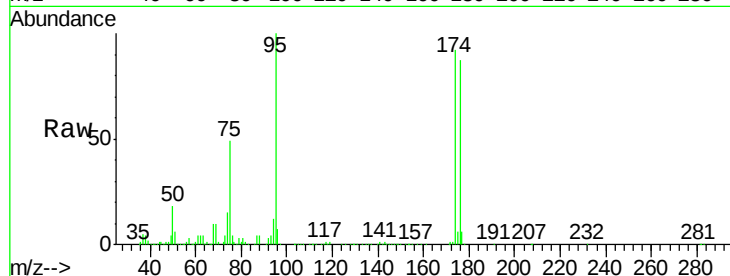
Tot Ion: 95 Resp: 728210

Ion Ratio Lower Upper

95 100

174 91.9 0.0 165.6

176 88.1 0.0 157.4

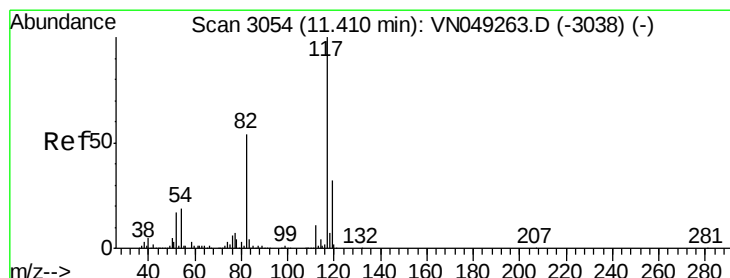
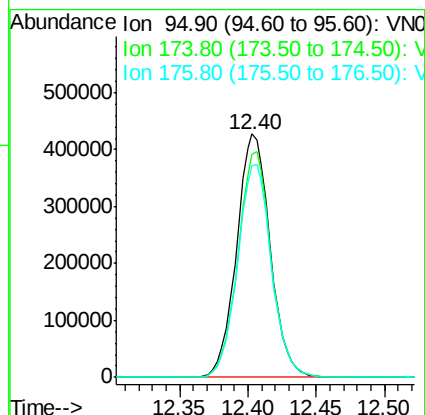
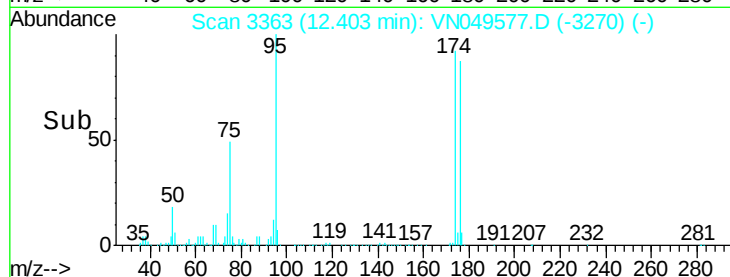


Abundance Ion 94.90 (94.60 to 95.60): VN049263.D (-3347) (-)

Ion 173.80 (173.50 to 174.50): VN049263.D (-3347) (-)

Ion 175.80 (175.50 to 176.50): VN049263.D (-3347) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN049577.D

Acq: 27 Jun 2018 17:22

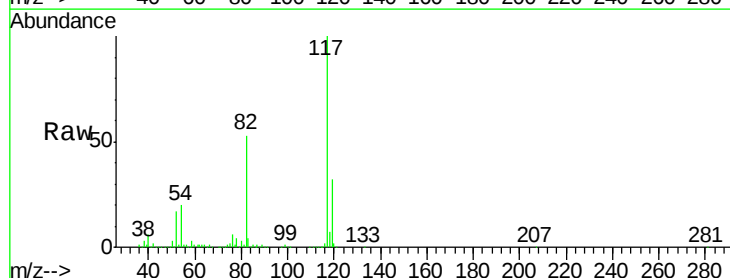
Tgt Ion: 117 Resp: 1545151

Ion Ratio Lower Upper

117 100

82 53.2 45.9 68.9

119 32.4 25.5 38.3

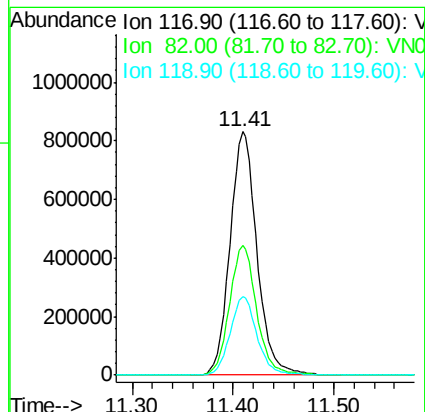
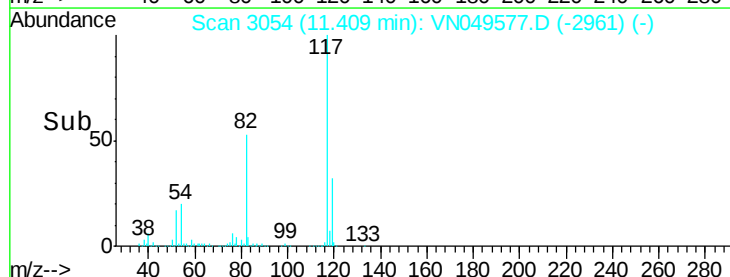


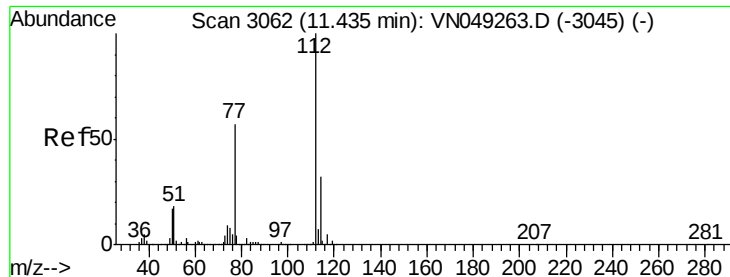
Abundance Ion 116.90 (116.60 to 117.60): VN049263.D (-3038) (-)

Ion 82.00 (81.70 to 82.70): VN049263.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN049263.D (-3038) (-)

Time-->

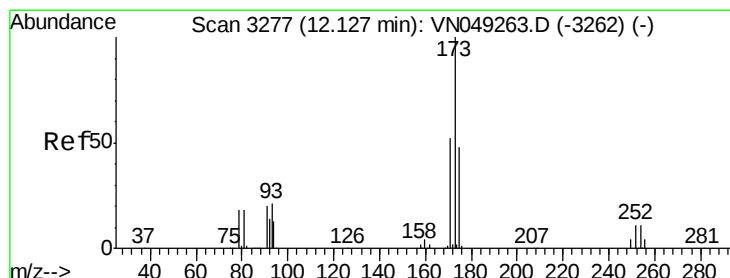
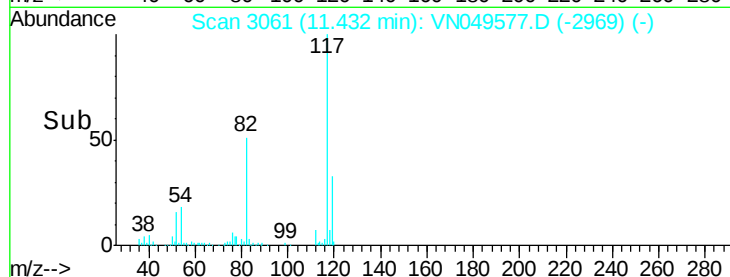
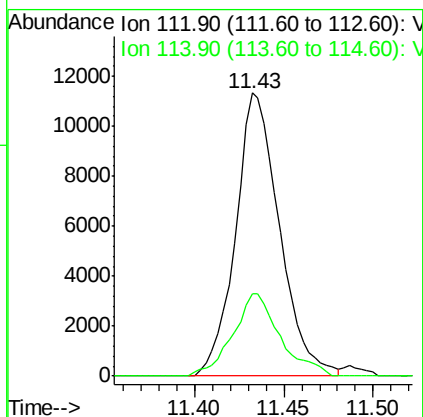
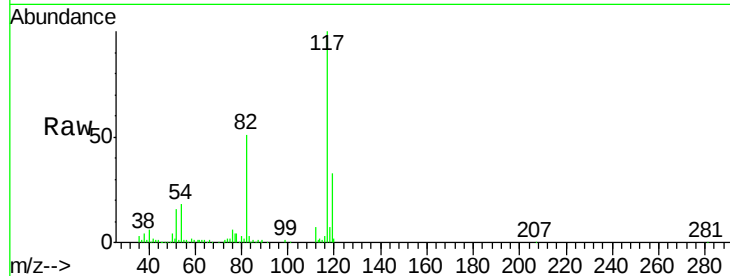




#65
Chlorobenzene
Concen: 0.49 ug/l
RT: 11.43 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN049577.D
Acq: 27 Jun 2018 17:22

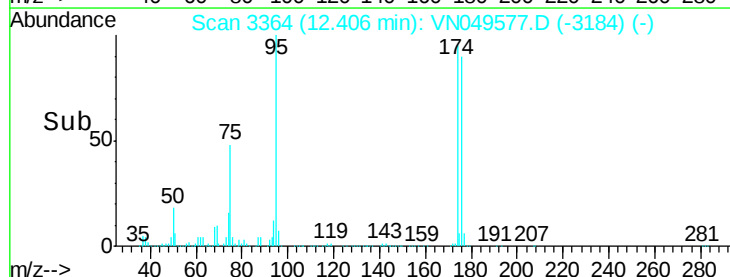
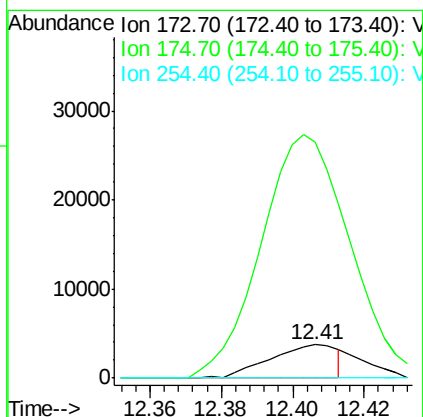
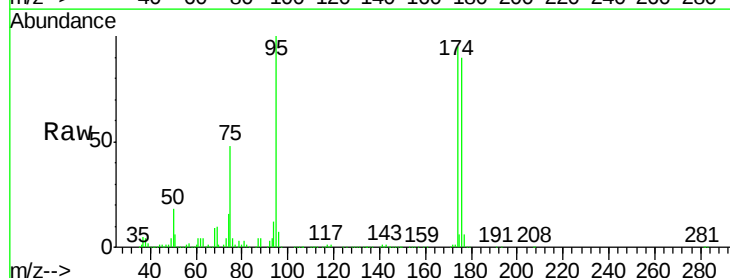
Instrument :
MSVOA_N
ClientSampleId :

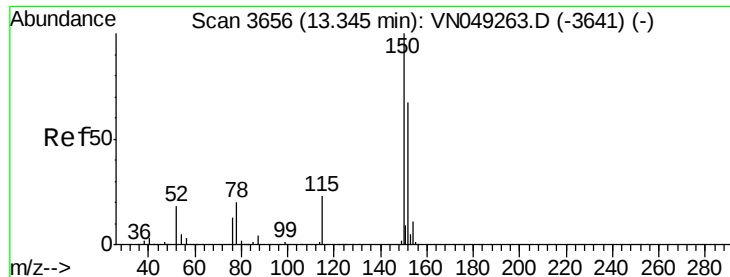
Tot Ion:112 Resp: 19502
Ion Ratio Lower Upper
112 100
114 29.1 26.2 39.4



#71
Bromoform
Concen: 0.51 ug/l
RT: 12.41 min Scan# 3364
Delta R.T. 0.28 min
Lab File: VN049577.D
Acq: 27 Jun 2018 17:22

Tgt Ion:173 Resp: 4911
Ion Ratio Lower Upper
173 100
175 783.1 24.5 73.5#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN049577.D

Acq: 27 Jun 2018 17:22

Instrument :

MSVOA_N

ClientSampleId :

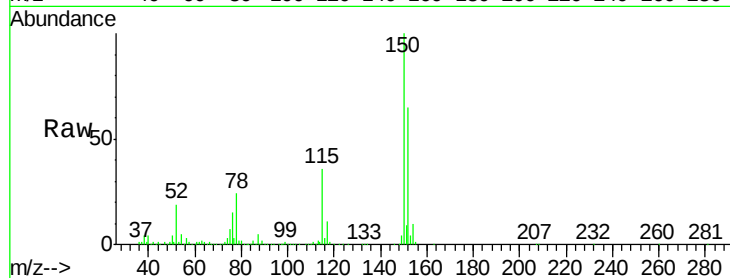
Tot Ion:152 Resp: 624883

Ion Ratio Lower Upper

152 100

115 55.8 28.7 86.1

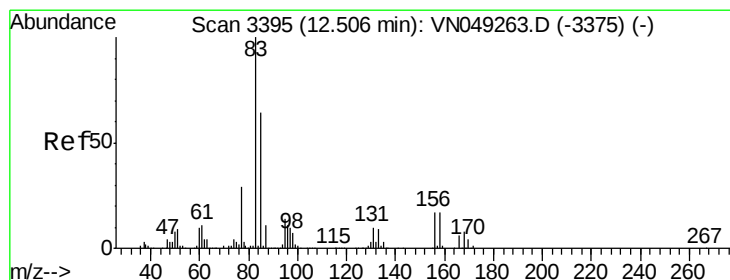
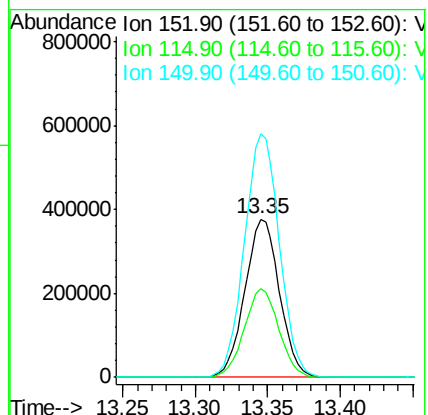
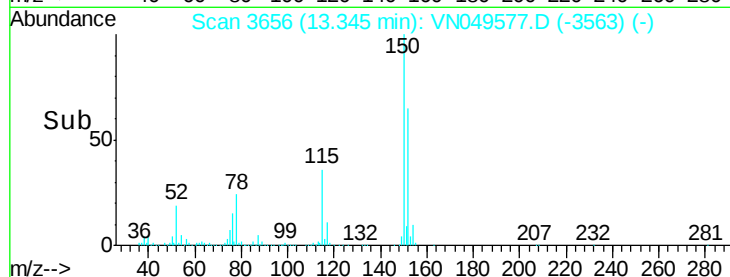
150 155.8 0.0 351.0



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: 12.57 min Scan# 3416

Delta R.T. 0.07 min

Lab File: VN049577.D

Acq: 27 Jun 2018 17:22

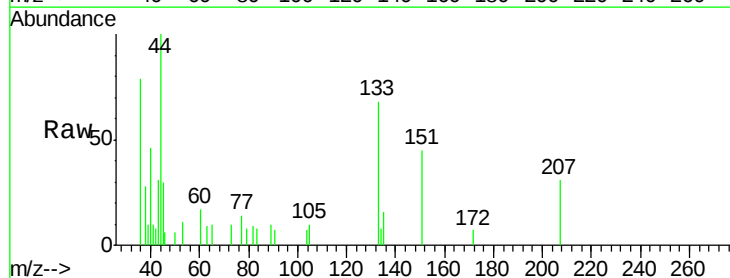
Tgt Ion: 83 Resp: 106

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

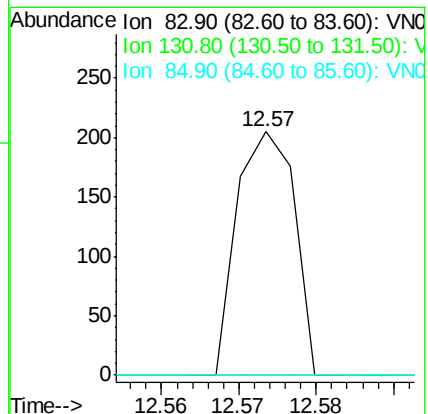
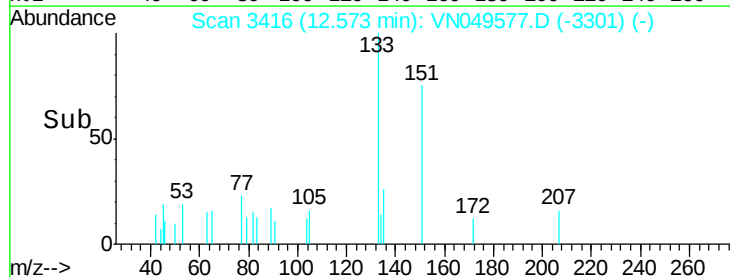
85 0.0 32.0 96.0#

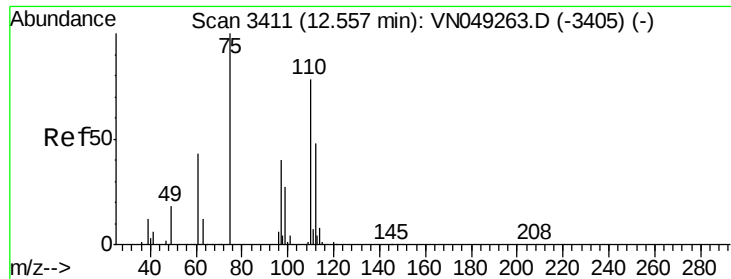


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V

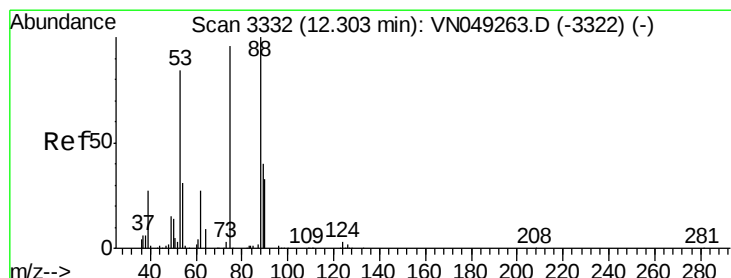
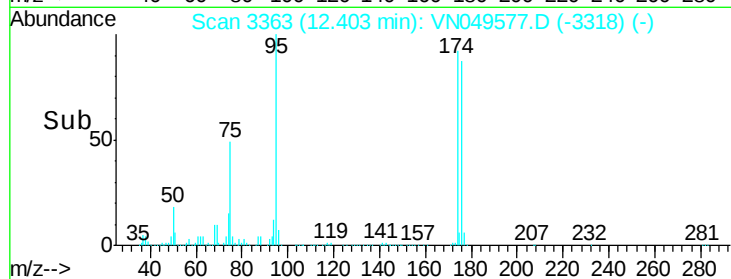
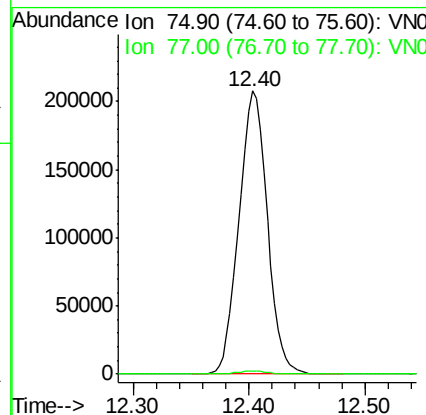
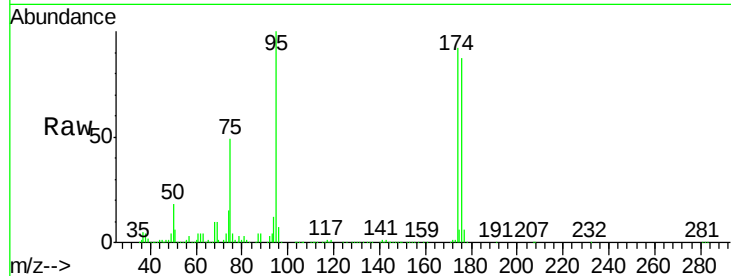




#76
 1,2,3-Trichloropropane
 Concen: 32.95 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. -0.15 min
 Lab File: VN049577.D
 Acq: 27 Jun 2018 17:22

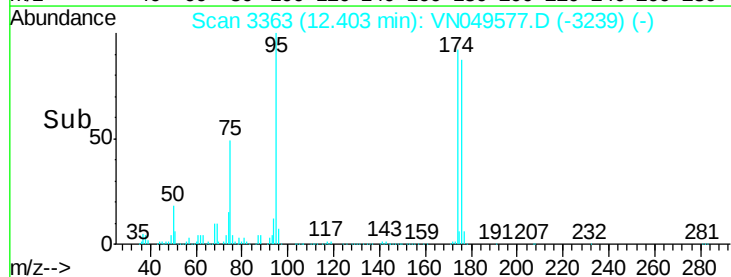
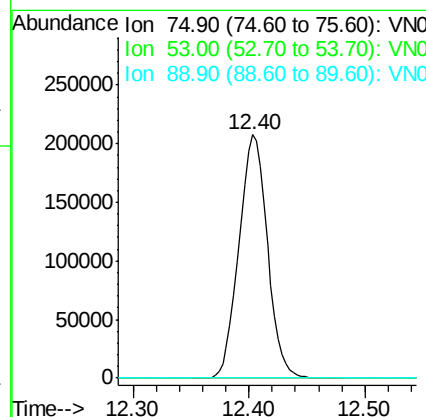
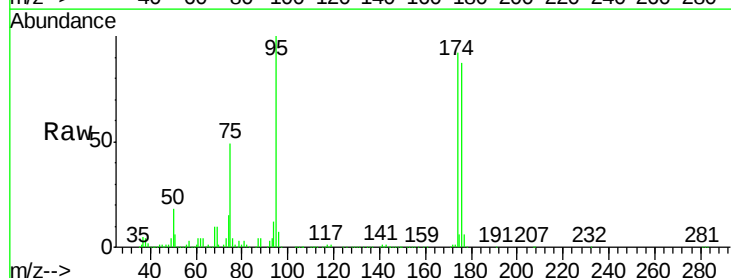
Instrument :
 MSVOA_N
 ClientSampleId :

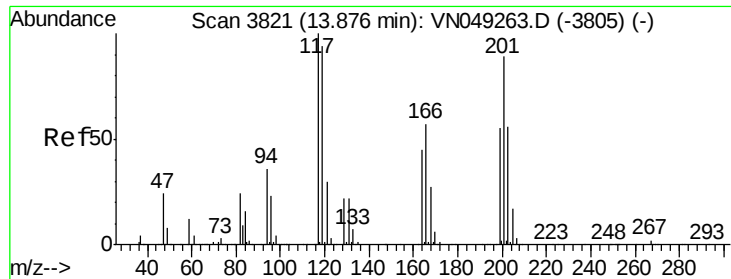
Tot Ion: 75 Resp: 351275
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 104.13 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.10 min
 Lab File: VN049577.D
 Acq: 27 Jun 2018 17:22

Tgt Ion: 75 Resp: 351275
 Ion Ratio Lower Upper
 75 100
 53 0.2 82.7 124.1#
 89 0.0 36.5 54.7#





#90

Hexachloroethane

Concen: Below Cal

RT: 13.94 min Scan# 3840

Delta R.T. 0.06 min

Lab File: VN049577.D

Acq: 27 Jun 2018 17:22

Instrument :

MSVOA_N

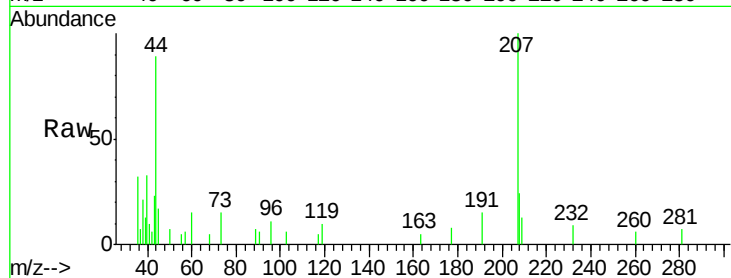
ClientSampleId :

Tot Ion:117 Resp: 29

Ion Ratio Lower Upper

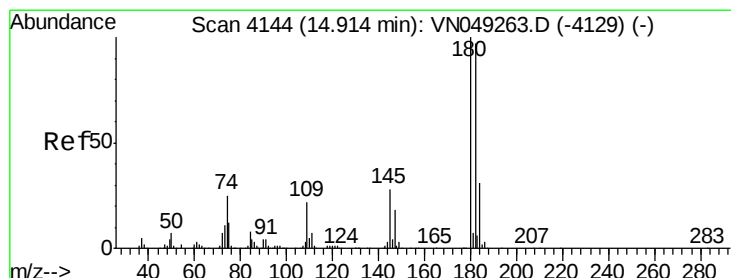
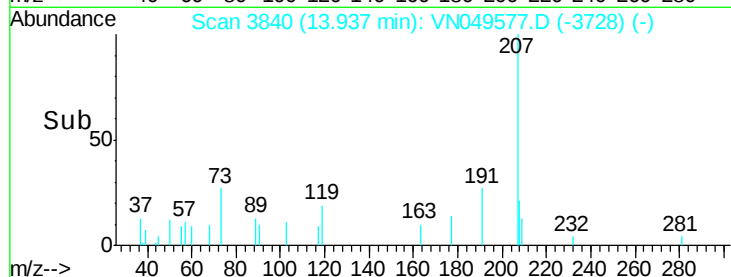
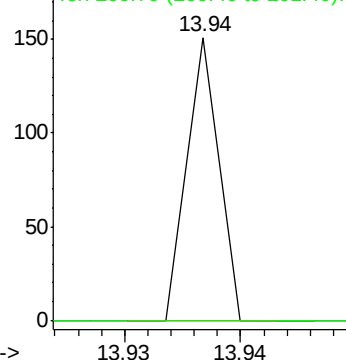
117 100

201 0.0 40.1 120.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#93

1,2,4-Trichlorobenzene

Concen: 4.78 ug/l

RT: 14.91 min Scan# 4143

Delta R.T. -0.00 min

Lab File: VN049577.D

Acq: 27 Jun 2018 17:22

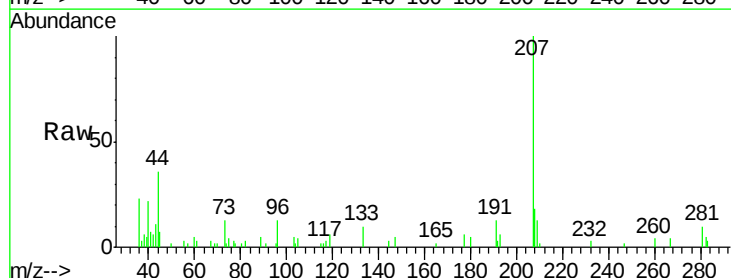
Tgt Ion:180 Resp: 440

Ion Ratio Lower Upper

180 100

182 30.9 46.9 140.8#

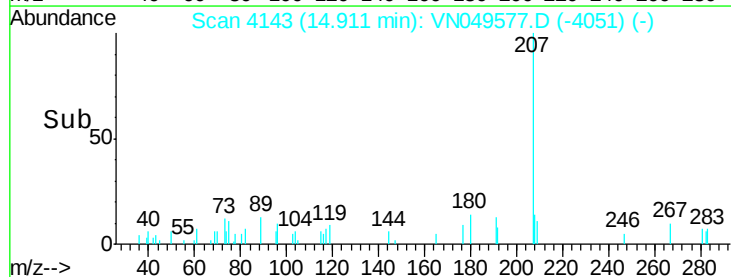
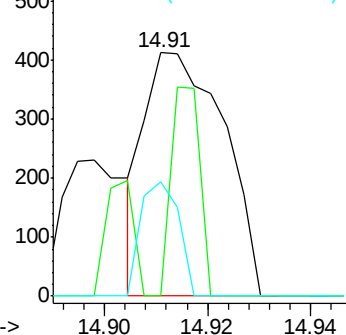
145 22.5 14.7 44.1

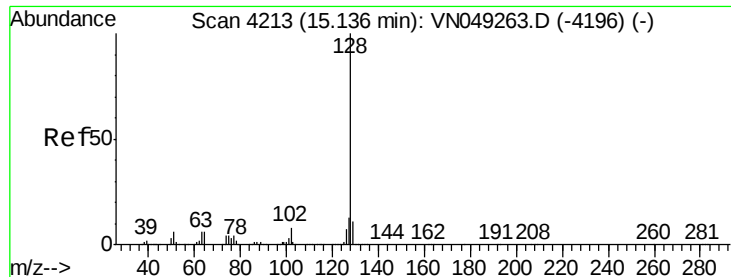


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 2.16 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.00 min

Lab File: VN049577.D

Acq: 27 Jun 2018 17:22

Instrument :

MSVOA_N

ClientSampled :

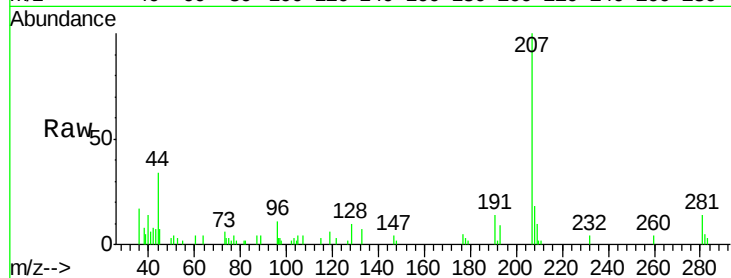
Tot Ion:128 Resp: 1444

Ion Ratio Lower Upper

128 100

127 12.8 10.6 16.0

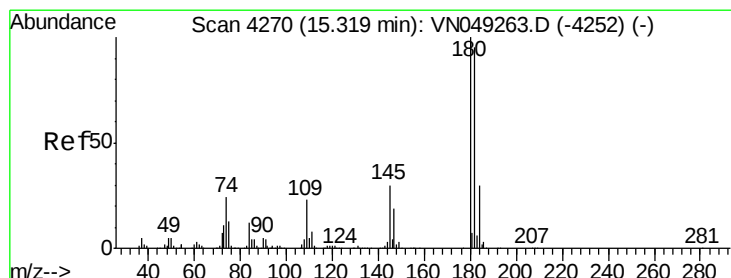
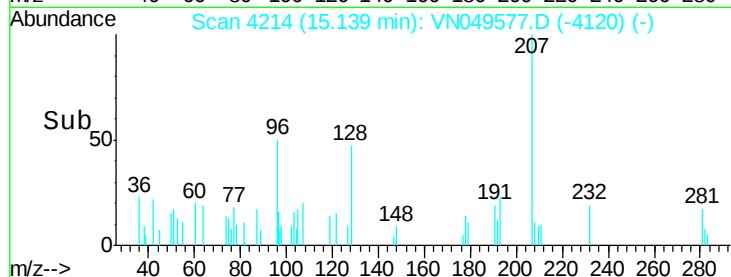
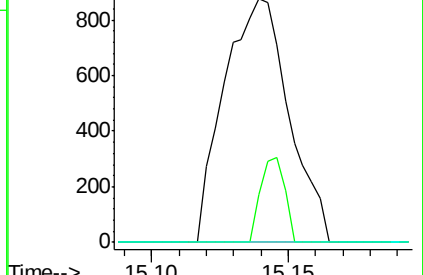
129 0.0 8.5 12.7#



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



#96

1,2,3-Trichlorobenzene

Concen: 3.49 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. -0.00 min

Lab File: VN049577.D

Acq: 27 Jun 2018 17:22

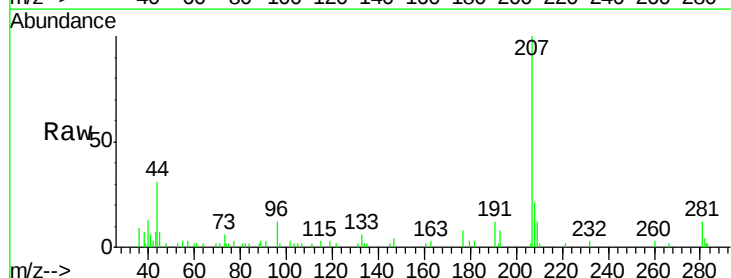
Tgt Ion:180 Resp: 390

Ion Ratio Lower Upper

180 100

182 144.4 47.3 141.8#

145 79.2 15.6 46.7#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

