

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122118\
 Data File : VX006721.D
 Acq On : 21 Dec 2018 14:09
 Operator : JC/MD
 Sample : J6496-01 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WATER-1

Quant Time: Dec 22 04:02:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	655795	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1006203	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	904121	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	429032	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	339714	48.06	ug/l	0.01
Spiked Amount			Recovery	=	96.12%	
35) Dibromofluoromethane	5.51	113	304011	47.78	ug/l	0.00
Spiked Amount			Recovery	=	95.56%	
50) Toluene-d8	8.71	98	1171297	48.83	ug/l	0.00
Spiked Amount			Recovery	=	97.66%	
62) 4-Bromofluorobenzene	11.14	95	410791	46.76	ug/l	0.00
Spiked Amount			Recovery	=	93.52%	

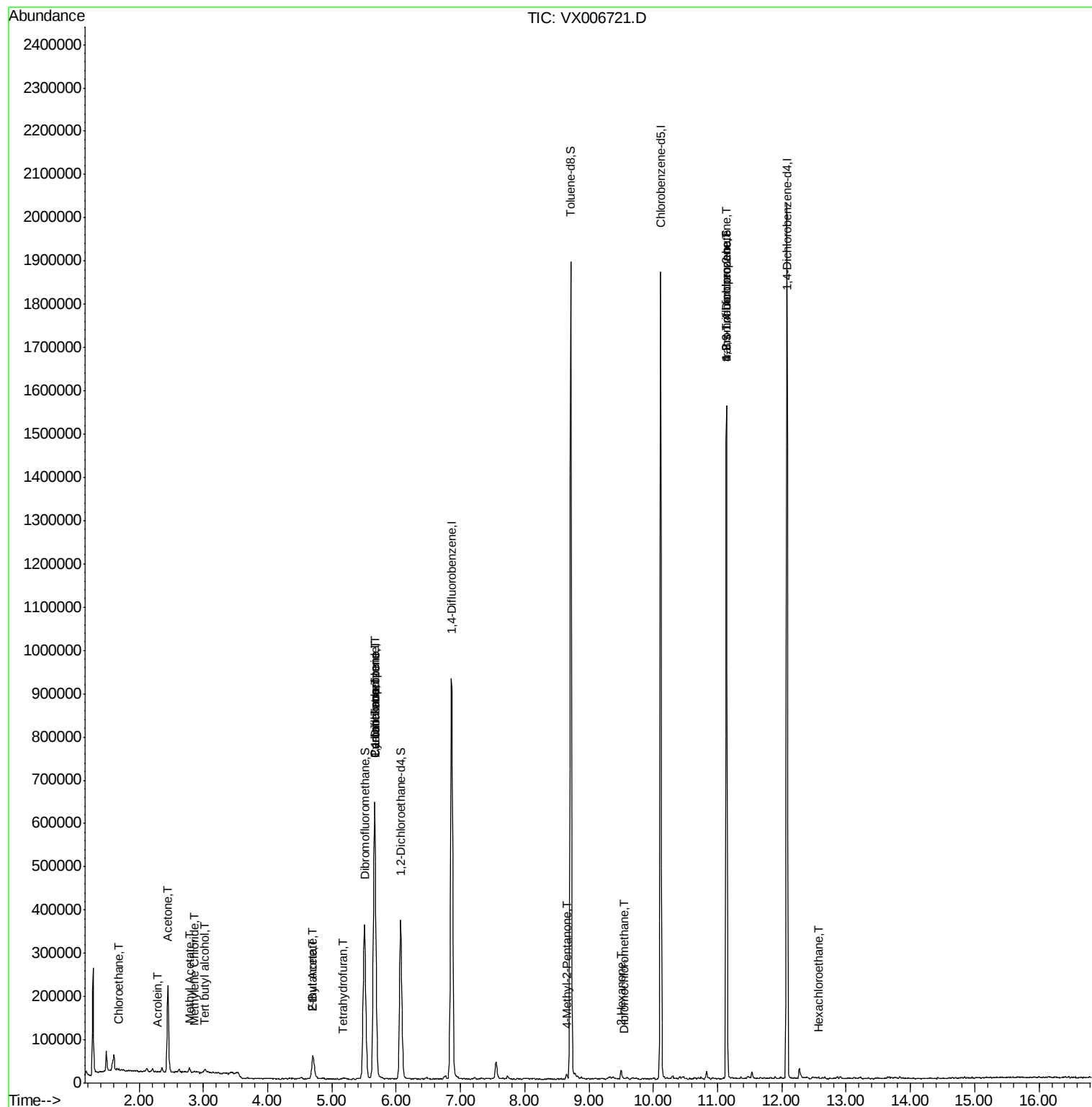
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1810	Below Cal		81
6) Chloroethane	1.68	64	1926	0.412	ug/l #	55
11) Tert butyl alcohol	3.03	59	7419	4.703	ug/l #	86
13) Acrolein	2.29	56	343	0.322	ug/l #	39
16) Acetone	2.45	43	219362	67.554	ug/l	97
18) Methyl Acetate	2.78	43	13716	1.436	ug/l #	87
20) Methylene Chloride	2.86	84	1709	0.255	ug/l	96
25) 2-Butanone	4.70	43	94087	20.599	ug/l	98
28) Bromochloromethane	5.01	49	125	Below Cal	#	66
29) Tetrahydrofuran	5.17	42	629	0.209	ug/l #	61
31) Cyclohexane	5.66	56	11239	1.149	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	41286	4.954	ug/l #	49
37) Ethyl Acetate	4.70	43	94087	10.847	ug/l #	67
38) Carbon Tetrachloride	5.67	117	58674	7.245	ug/l #	15
49) 1,4-Dioxane	7.74	88	60	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.65	43	7064	0.841	ug/l #	87
59) 2-Hexanone	9.50	43	12319	1.917	ug/l	98
60) Dibromochloromethane	9.55	129	86	2.336	ug/l	58
76) 1,2,3-Trichloropropane	11.13	75	199380	25.006	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	199380	73.892	ug/l #	10
90) Hexachloroethane	12.57	117	103	3.317	ug/l	94

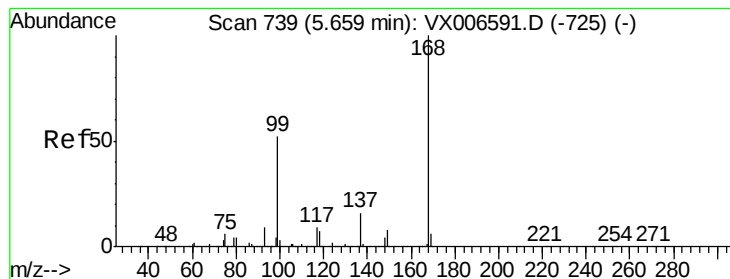
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
Quant Title : SW846 8260
QLast Update : Wed Dec 19 15:20:58 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006721.D

Acq: 21 Dec 2018 14:09

Instrument :

MSVOA_X

ClientSampled :

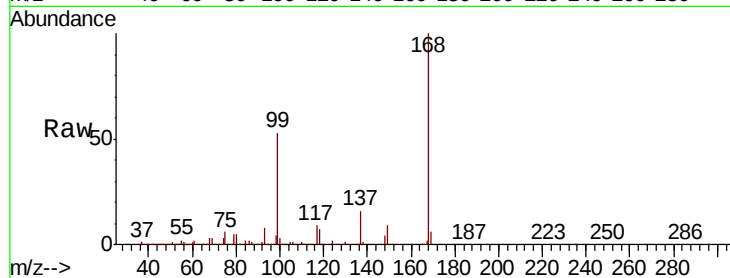
WATER-1

Tot Ion:168 Resp: 655795

Ion Ratio Lower Upper

168 100

99 52.6 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

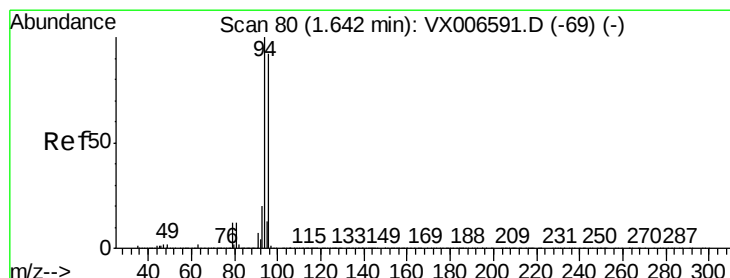
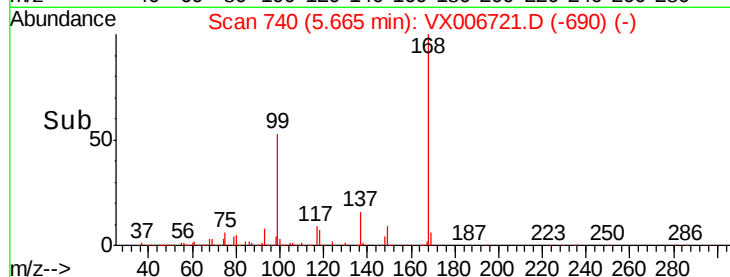
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006721.D

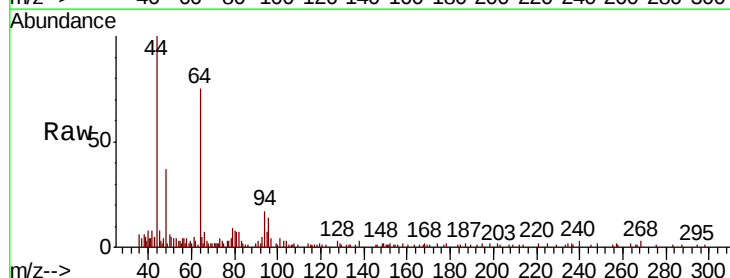
Acq: 21 Dec 2018 14:09

Tgt Ion: 94 Resp: 1810

Ion Ratio Lower Upper

94 100

96 73.6 73.4 110.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

1000

800

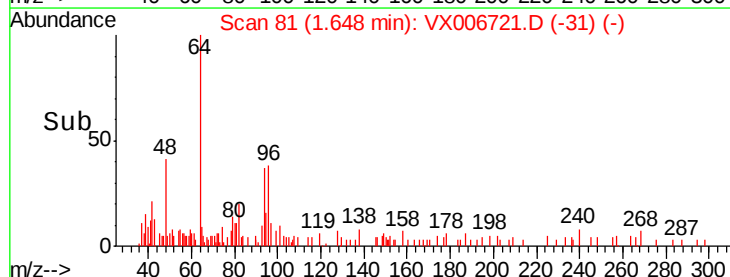
600

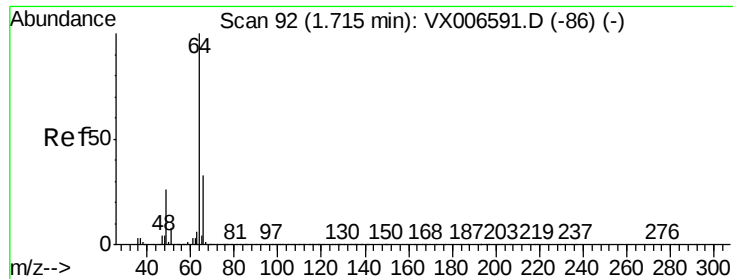
400

200

0

Time-->





#6

Chloroethane

Concen: 0.412 ug/l

RT: 1.68 min Scan# 87

Delta R.T. -0.03 min

Lab File: VX006721.D

Acq: 21 Dec 2018 14:09

Instrument :

MSVOA_X

ClientSampleId :

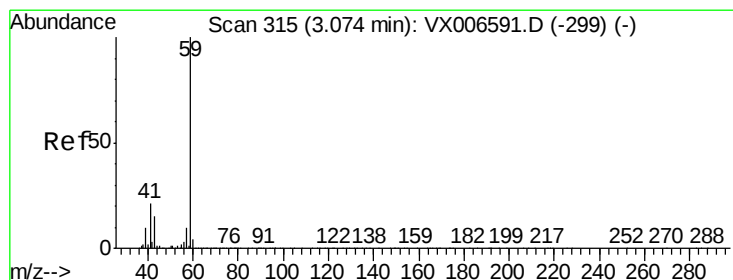
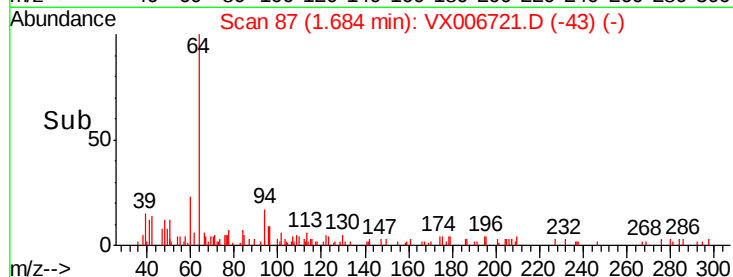
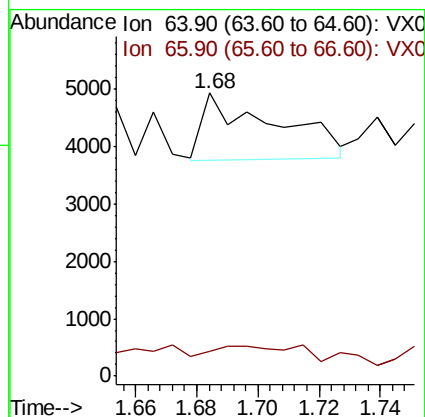
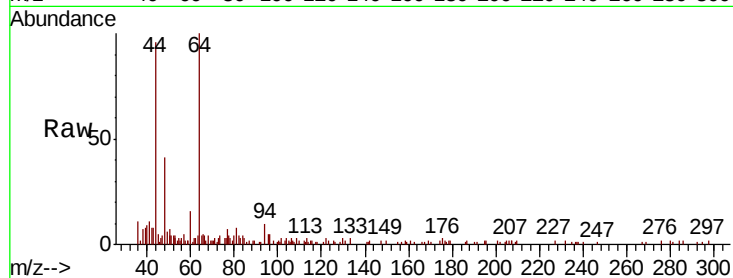
WATER-1

Tot Ion: 64 Resp: 1926

Ion Ratio Lower Upper

64 100

66 7.8 26.4 39.6#



#11

Tert butyl alcohol

Concen: 4.703 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.05 min

Lab File: VX006721.D

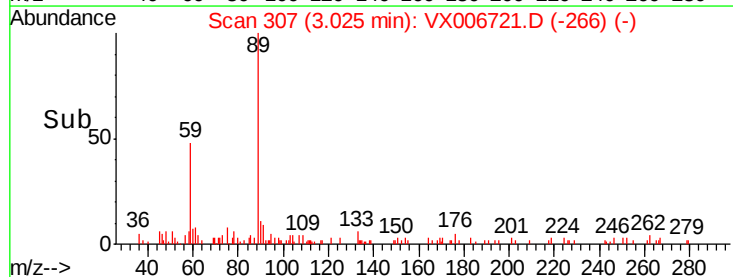
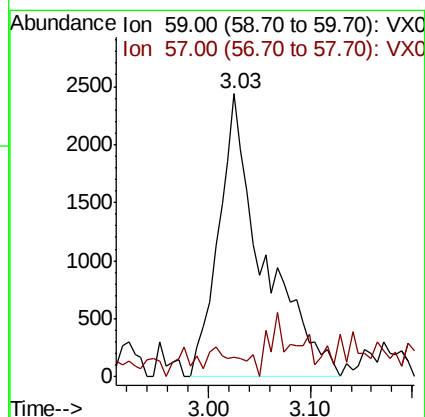
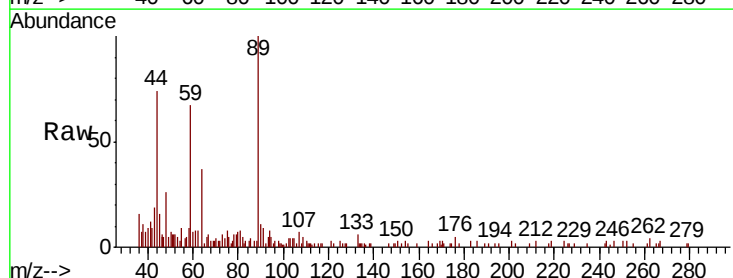
Acq: 21 Dec 2018 14:09

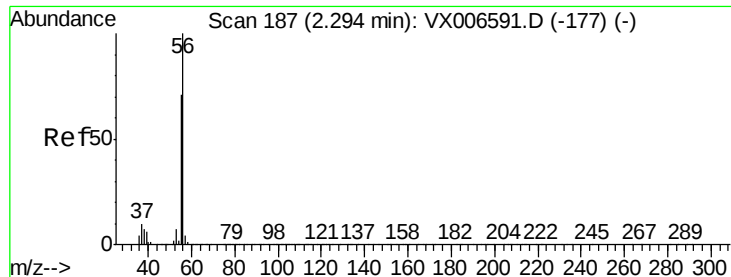
Tgt Ion: 59 Resp: 7419

Ion Ratio Lower Upper

59 100

57 5.4 8.5 12.7#





#13

Acrolein

Concen: 0.322 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX006721.D

Acq: 21 Dec 2018 14:09

Instrument :

MSVOA_X

ClientSampled :

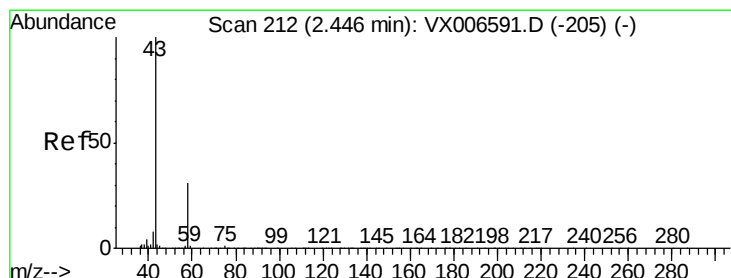
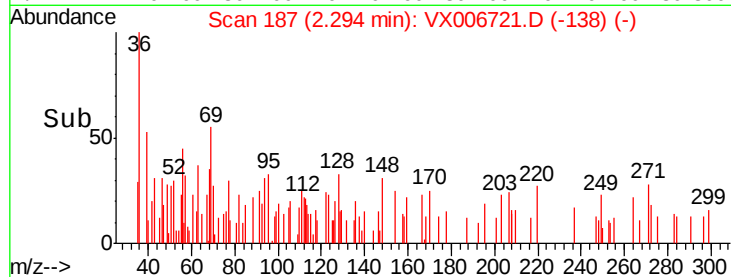
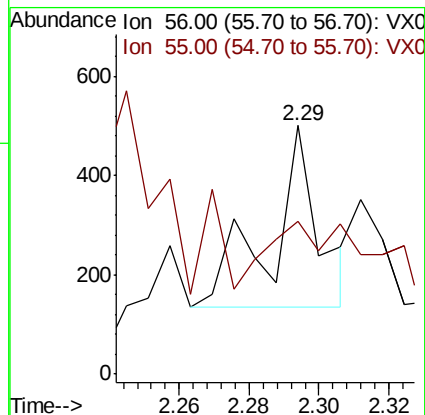
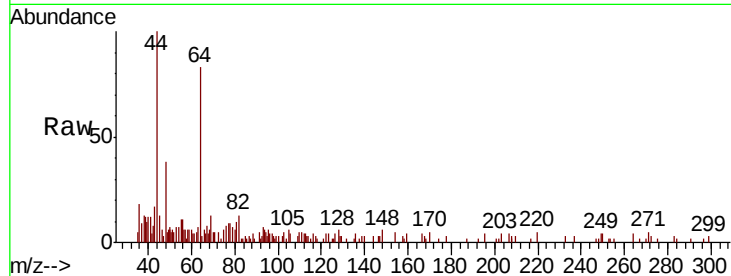
WATER-1

Tot Ion: 56 Resp: 343

Ion Ratio Lower Upper

56 100

55 123.6 58.2 87.4#



#16

Acetone

Concen: 67.554 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX006721.D

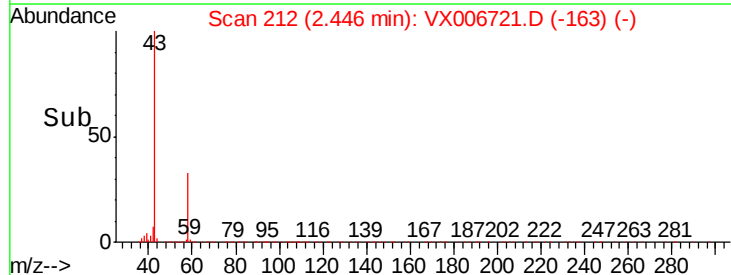
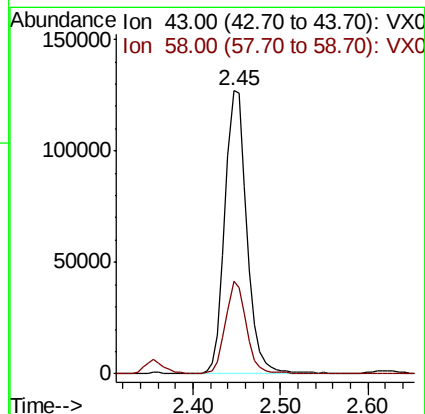
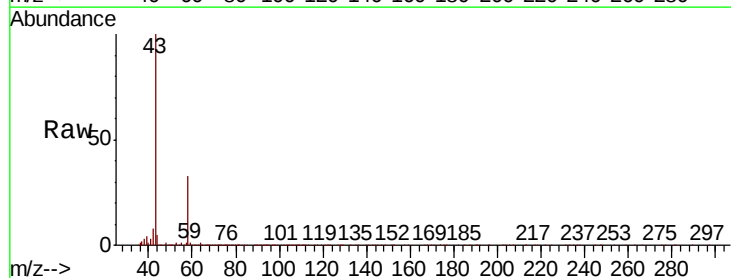
Acq: 21 Dec 2018 14:09

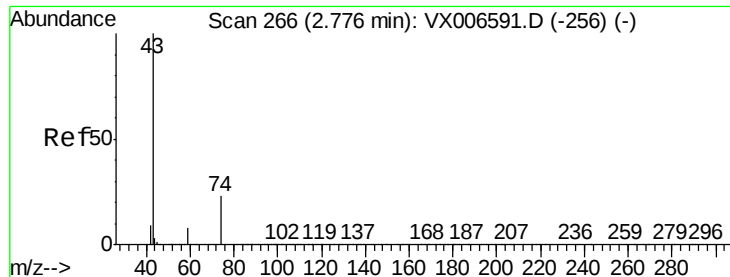
Tgt Ion: 43 Resp: 219362

Ion Ratio Lower Upper

43 100

58 32.7 25.0 37.6





#18

Methyl Acetate

Concen: 1.436 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX006721.D

Acq: 21 Dec 2018 14:09

Instrument :

MSVOA_X

ClientSampled :

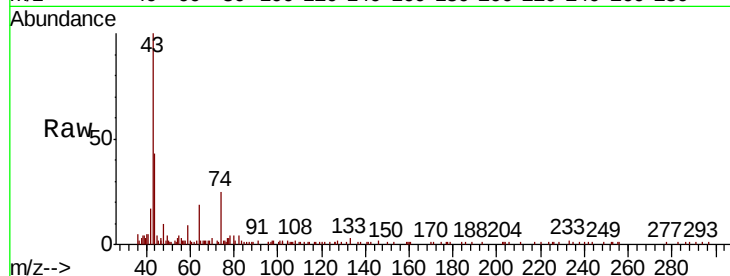
WATER-1

Tot Ion: 43 Resp: 13716

Ion Ratio Lower Upper

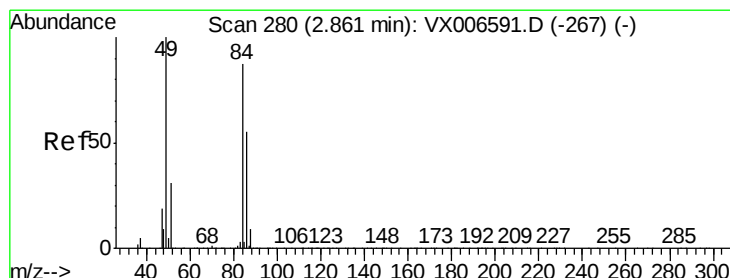
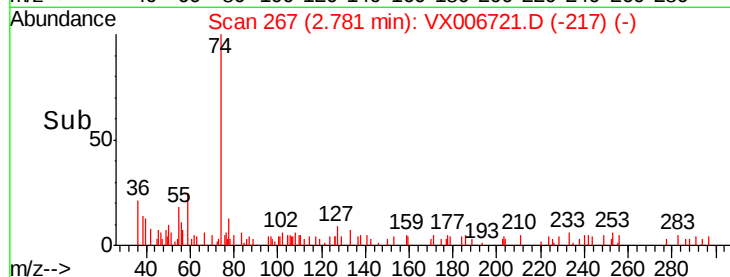
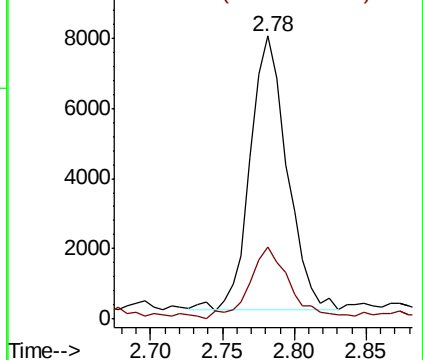
43 100

74 29.5 18.6 28.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



#20

Methylene Chloride

Concen: 0.255 ug/l

RT: 2.86 min Scan# 280

Delta R.T. -0.00 min

Lab File: VX006721.D

Acq: 21 Dec 2018 14:09

Tgt Ion: 84 Resp: 1709

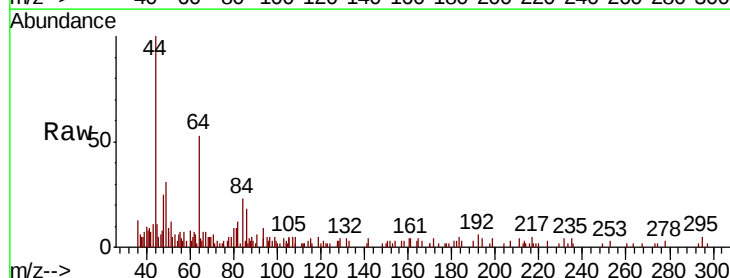
Ion Ratio Lower Upper

84 100

49 110.8 91.8 137.6

51 38.7 28.5 42.7

86 64.9 50.2 75.2

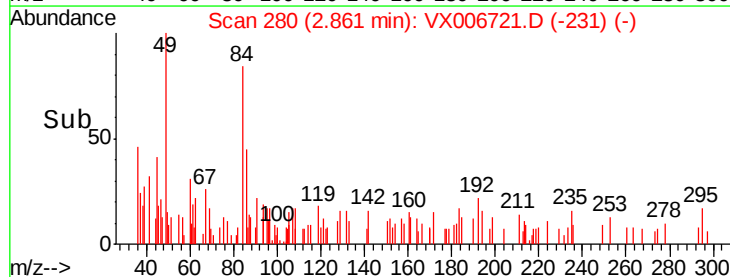
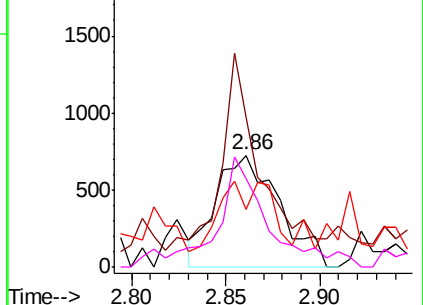


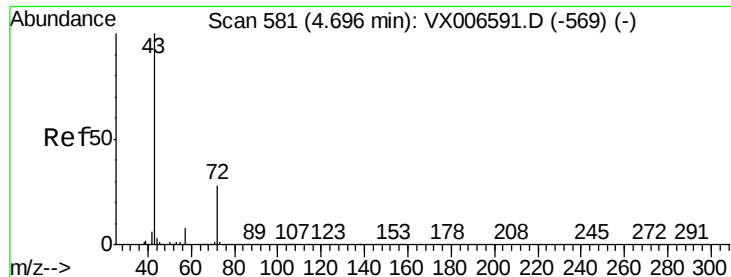
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#25

2-Butanone

Concen: 20.599 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX006721.D

Acq: 21 Dec 2018 14:09

Instrument :

MSVOA_X

ClientSampleId :

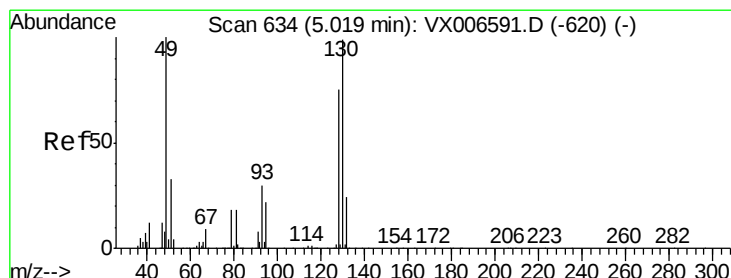
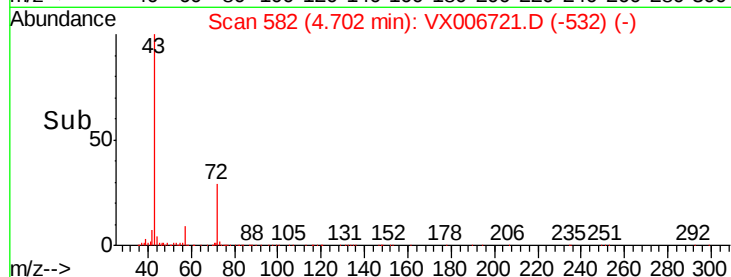
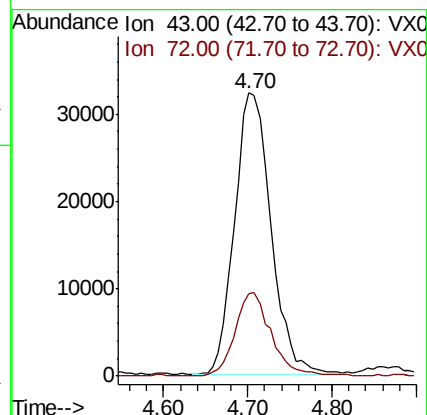
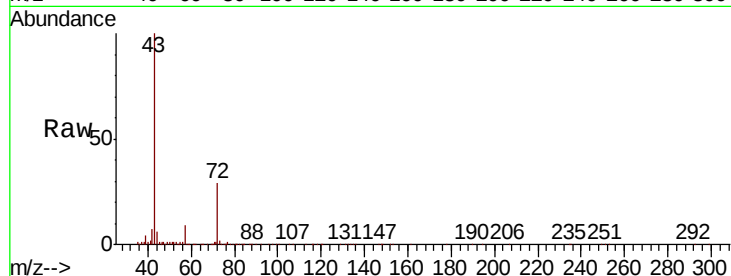
WATER-1

Tot Ion: 43 Resp: 94087

Ion Ratio Lower Upper

43 100

72 28.9 22.4 33.6



#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 632

Delta R.T. -0.01 min

Lab File: VX006721.D

Acq: 21 Dec 2018 14:09

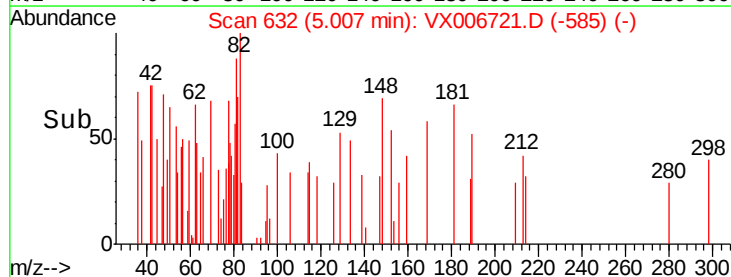
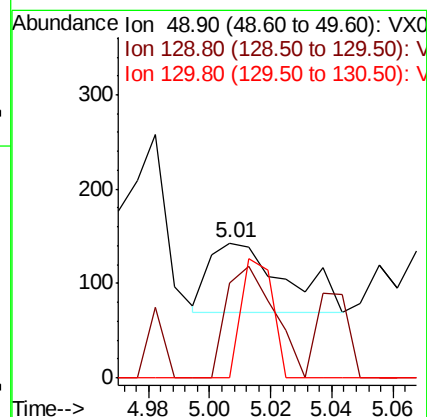
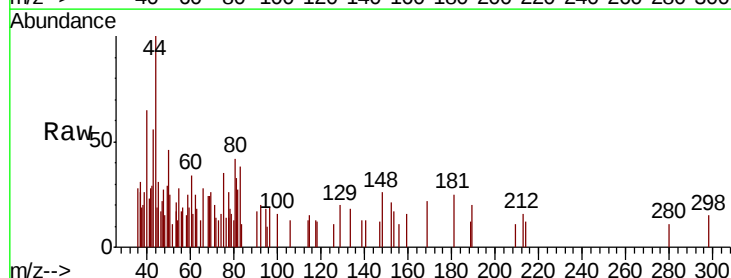
Tgt Ion: 49 Resp: 125

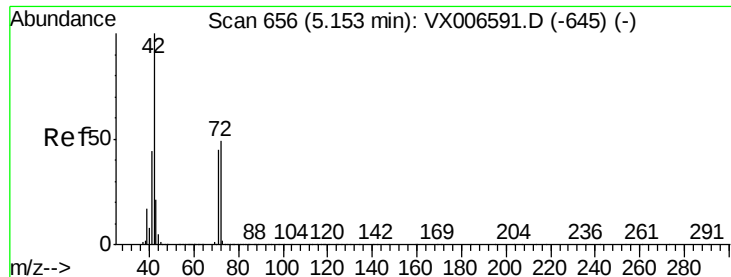
Ion Ratio Lower Upper

49 100

129 102.4 0.0 5.4#

130 70.4 77.7 116.5#

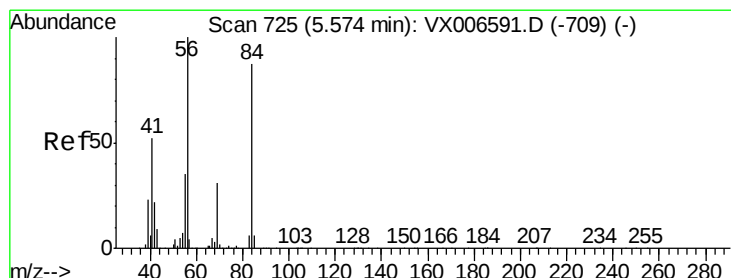
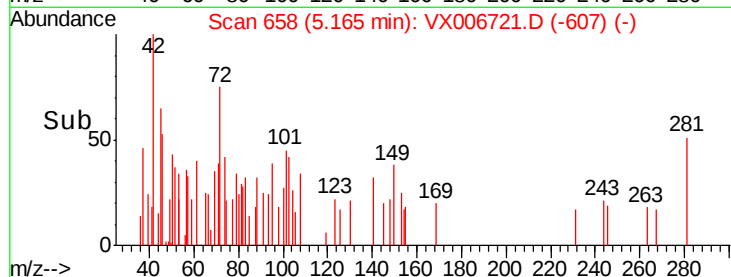
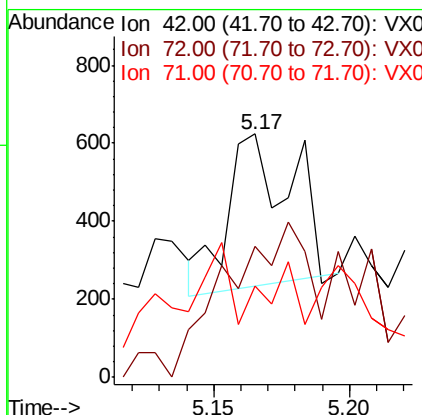
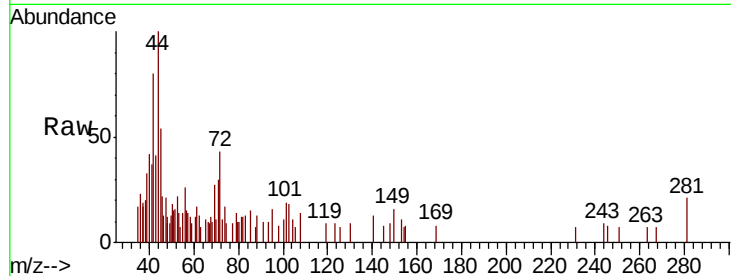




#29
Tetrahydrofuran
Concen: 0.209 ug/l
RT: 5.17 min Scan# 658
Delta R.T. 0.01 min
Lab File: VX006721.D
Acq: 21 Dec 2018 14:09

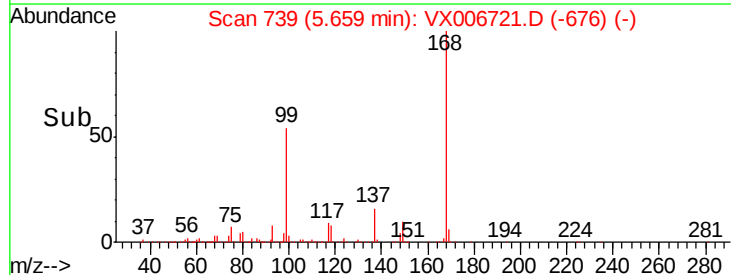
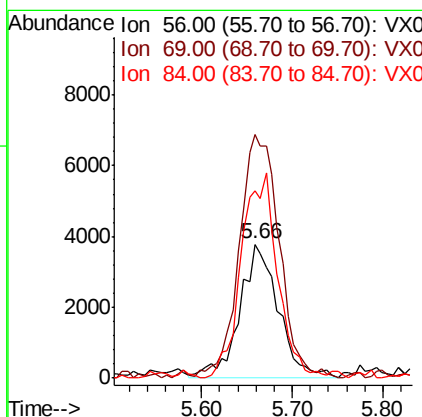
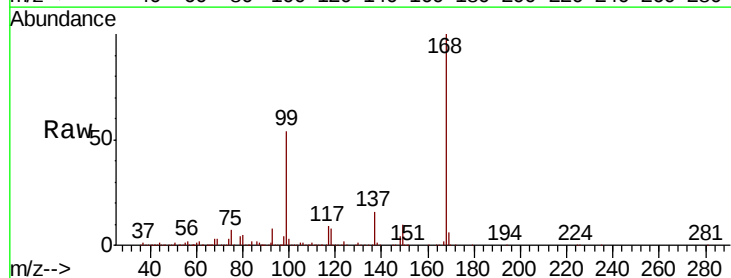
Instrument :
MSVOA_X
ClientSampled :
WATER-1

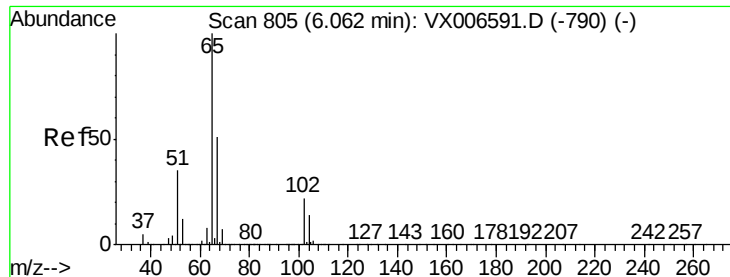
Tot Ion: 42 Resp: 629
Ion Ratio Lower Upper
42 100
72 0.0 38.9 58.3#
71 43.1 36.2 54.4



#31
Cyclohexane
Concen: 1.149 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX006721.D
Acq: 21 Dec 2018 14:09

Tgt Ion: 56 Resp: 11239
Ion Ratio Lower Upper
56 100
69 182.1 24.4 36.6#
84 136.2 70.0 105.0#





#33

1,2-Dichloroethane-d4

Concen: 48.065 ug/l

RT: 6.07 min Scan# 807

Delta R.T. 0.01 min

Lab File: VX006721.D

Acq: 21 Dec 2018 14:09

Instrument :

MSVOA_X

ClientSampleId :

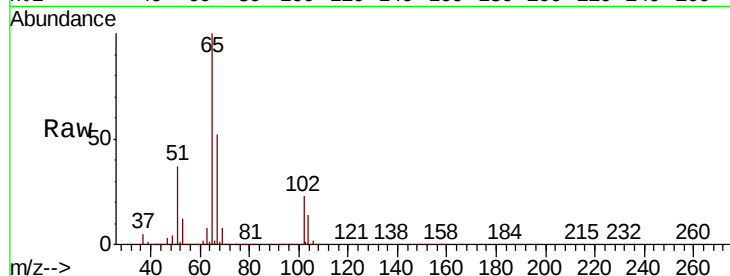
WATER-1

Tot Ion: 65 Resp: 339714

Ion Ratio Lower Upper

65 100

67 53.8 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

150000

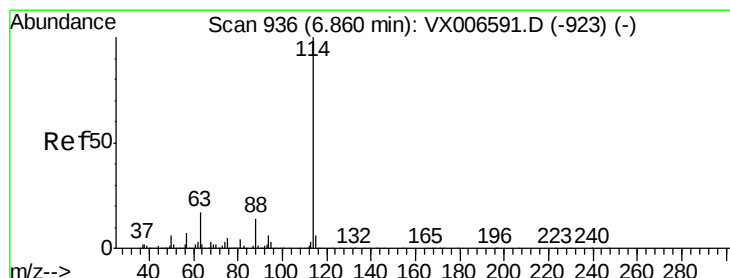
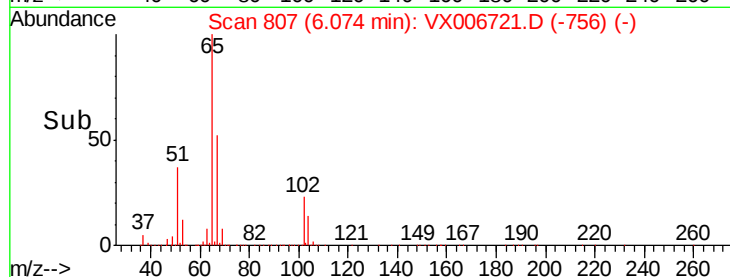
100000

50000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006721.D

Acq: 21 Dec 2018 14:09

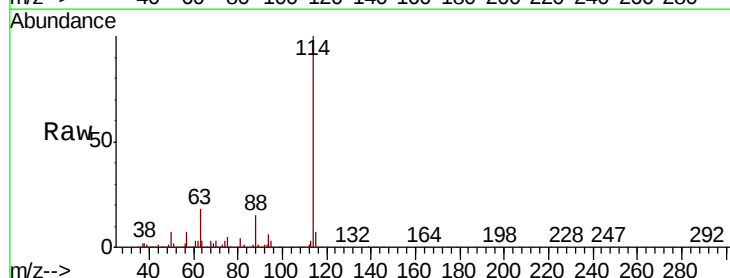
Tgt Ion:114 Resp: 1006203

Ion Ratio Lower Upper

114 100

63 18.1 0.0 34.8

88 15.0 0.0 28.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

6.86

600000

500000

400000

300000

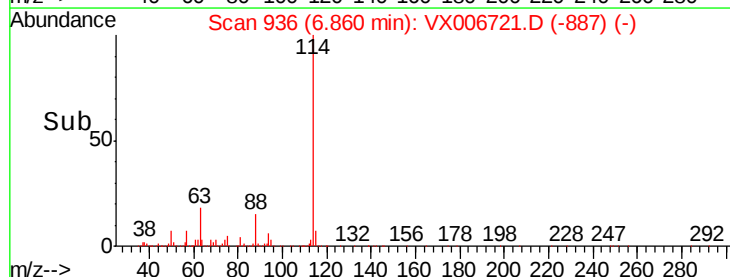
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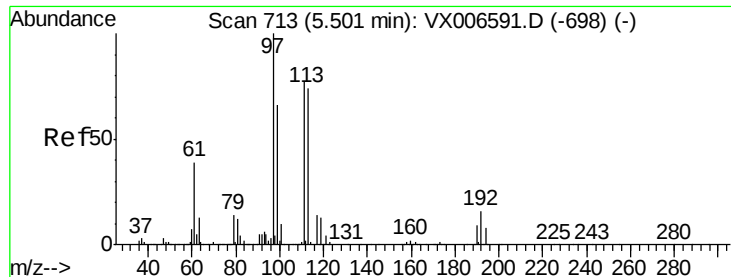
100000

0

Time-->

6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 47.778 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006721.D

Acq: 21 Dec 2018 14:09

Instrument :

MSVOA_X

ClientSampled :

WATER-1

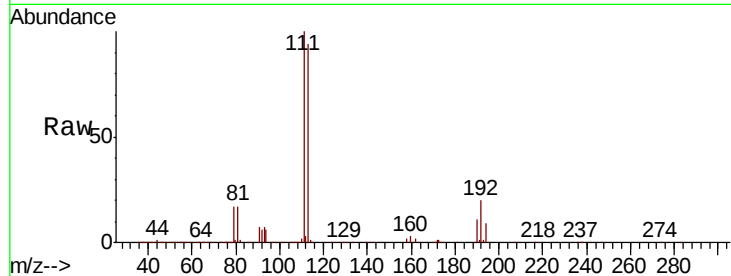
Tot Ion:113 Resp: 304011

Ion Ratio Lower Upper

113 100

111 101.8 81.6 122.4

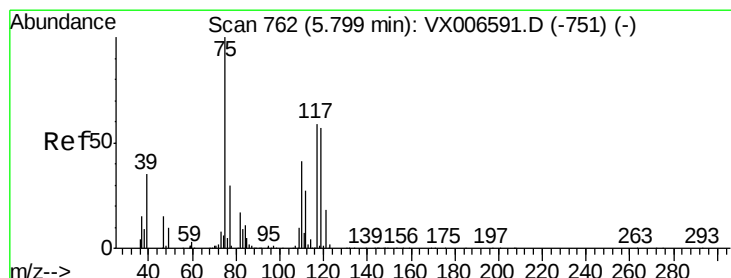
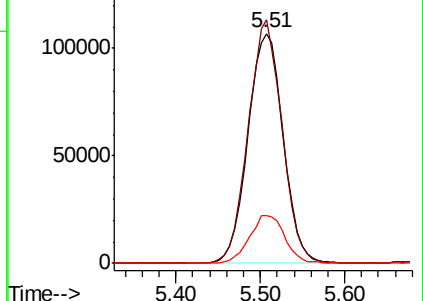
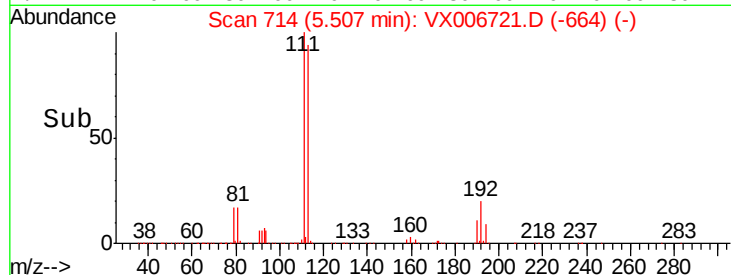
192 21.1 16.7 25.1



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: 4.954 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006721.D

Acq: 21 Dec 2018 14:09

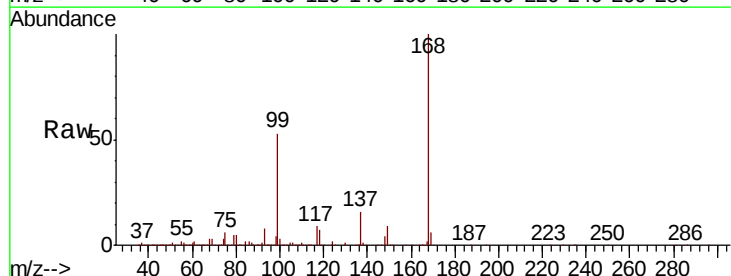
Tgt Ion: 75 Resp: 41286

Ion Ratio Lower Upper

75 100

110 10.6 20.2 60.5#

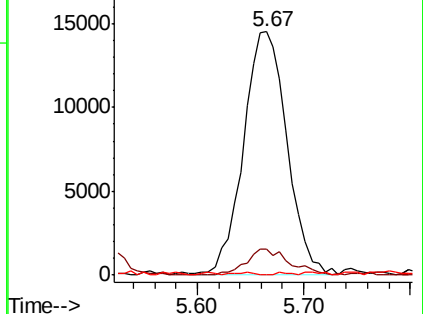
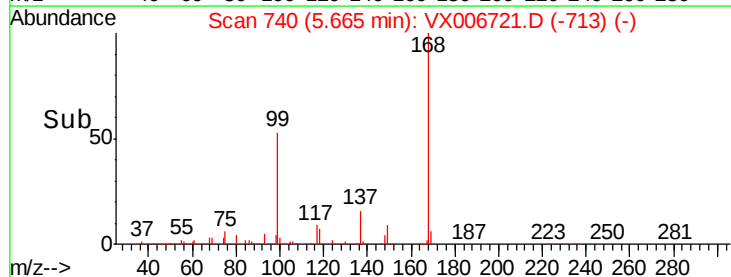
77 0.4 24.8 37.2#

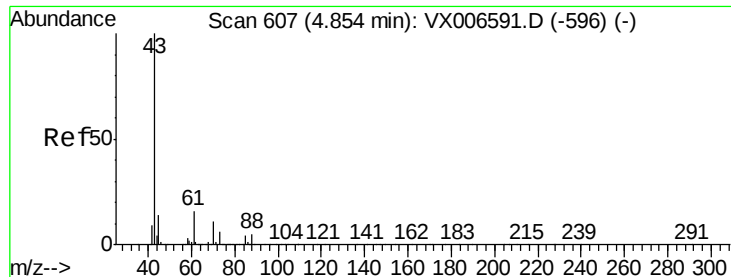


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#37

Ethyl Acetate

Concen: 10.847 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.15 min

Lab File: VX006721.D

Acq: 21 Dec 2018 14:09

Instrument :

MSVOA_X

ClientSampleId :

WATER-1

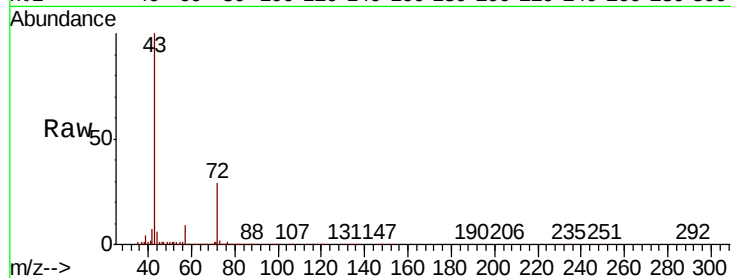
Tot Ion: 43 Resp: 94087

Ion Ratio Lower Upper

43 100

61 0.2 11.9 17.9#

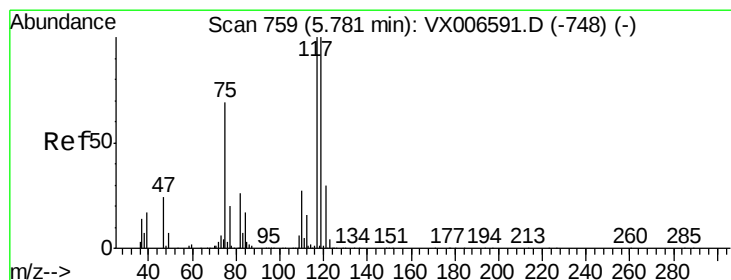
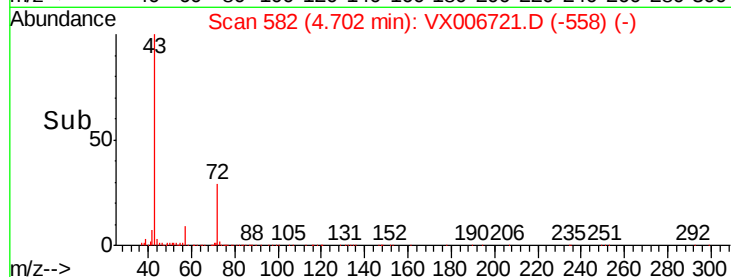
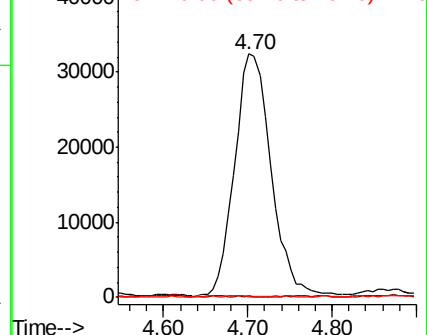
70 0.3 9.7 14.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0



#38

Carbon Tetrachloride

Concen: 7.245 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006721.D

Acq: 21 Dec 2018 14:09

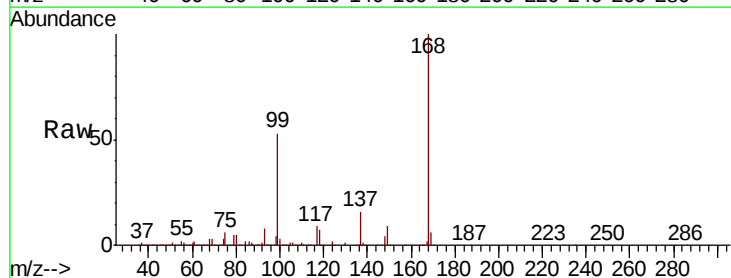
Tgt Ion: 117 Resp: 58674

Ion Ratio Lower Upper

117 100

119 5.2 79.4 119.2#

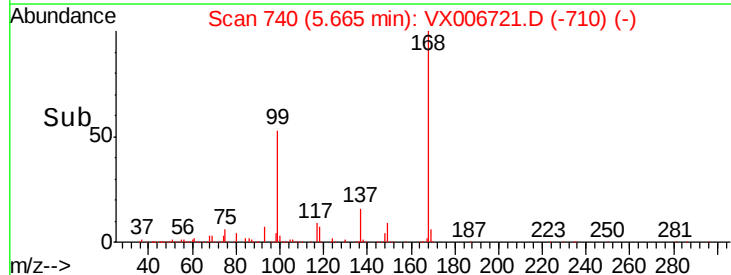
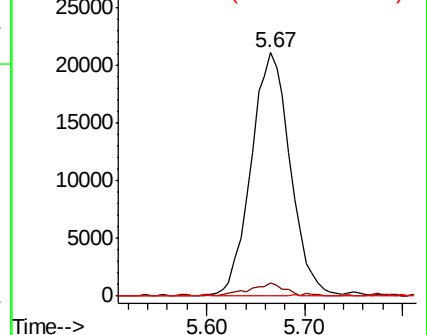
121 0.0 24.0 36.0#

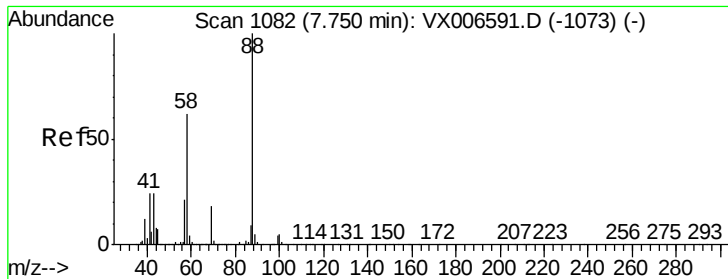


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.74 min Scan# 1081

Delta R.T. -0.01 min

Lab File: VX006721.D

Acq: 21 Dec 2018 14:09

Instrument :

MSVOA_X

ClientSampled :

WATER-1

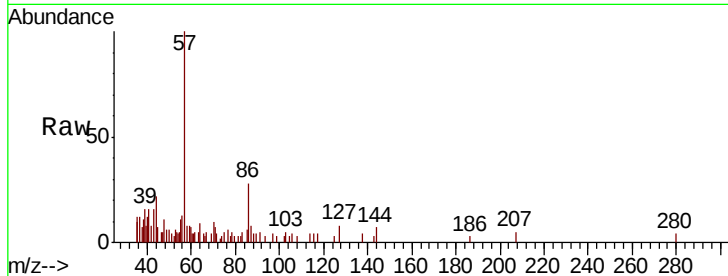
Tot Ion: 88 Resp: 60

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

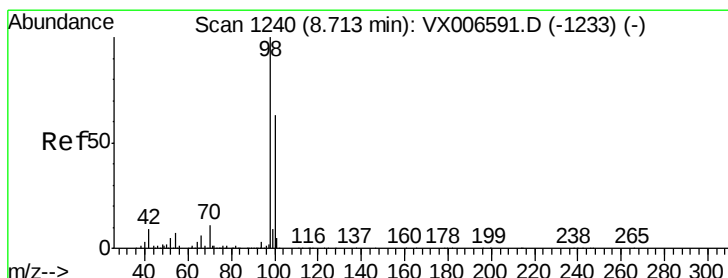
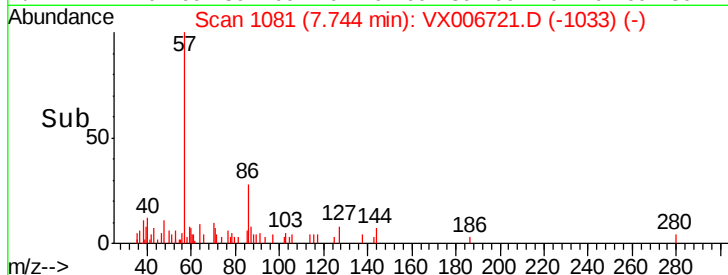
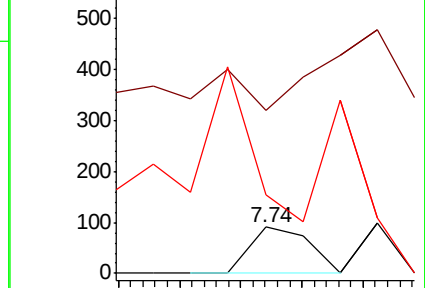
58 446.7 51.0 76.4#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 48.827 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006721.D

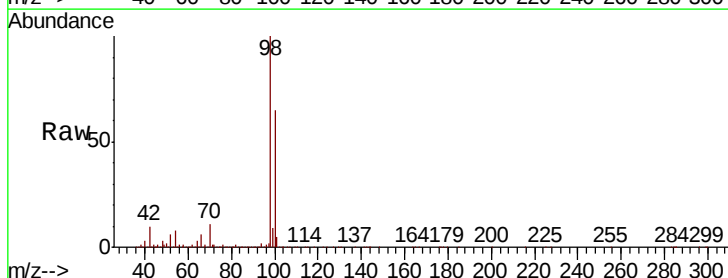
Acq: 21 Dec 2018 14:09

Tgt Ion: 98 Resp: 1171297

Ion Ratio Lower Upper

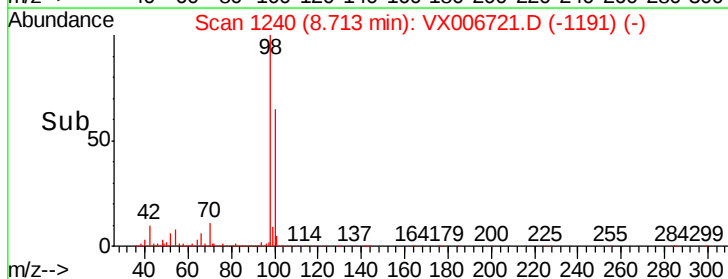
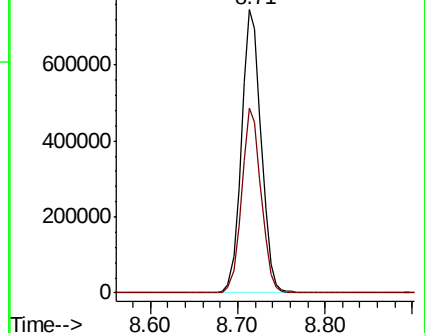
98 100

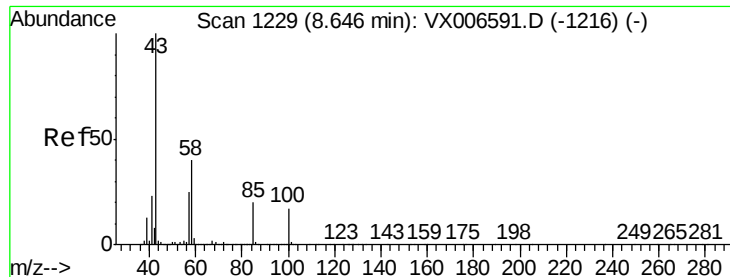
100 64.1 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.841 ug/l

RT: 8.65 min Scan# 1230

Delta R.T. 0.01 min

Lab File: VX006721.D

Acq: 21 Dec 2018 14:09

Instrument :

MSVOA_X

ClientSampleId :

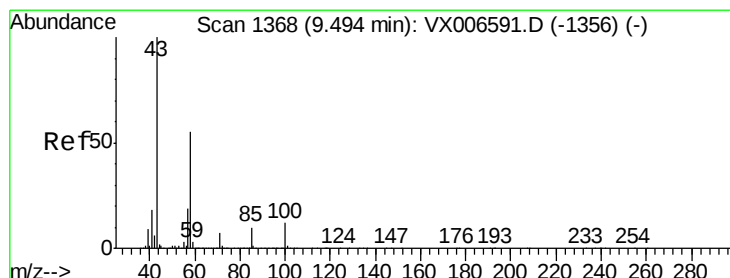
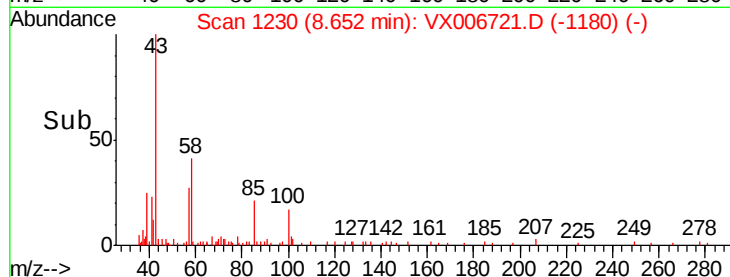
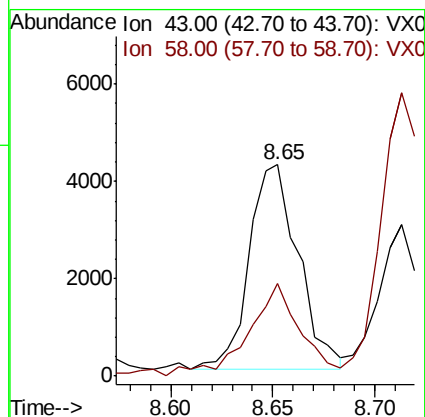
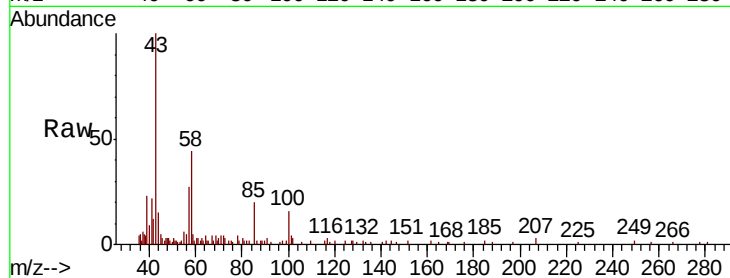
WATER-1

Tot Ion: 43 Resp: 7064

Ion Ratio Lower Upper

43 100

58 48.0 31.8 47.6#



#59

2-Hexanone

Concen: 1.917 ug/l

RT: 9.50 min Scan# 1369

Delta R.T. 0.01 min

Lab File: VX006721.D

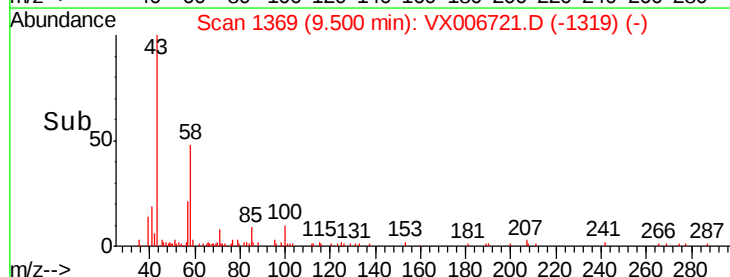
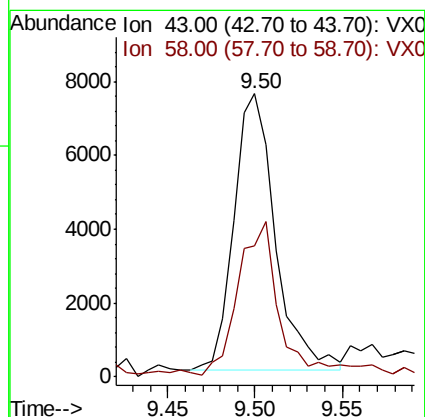
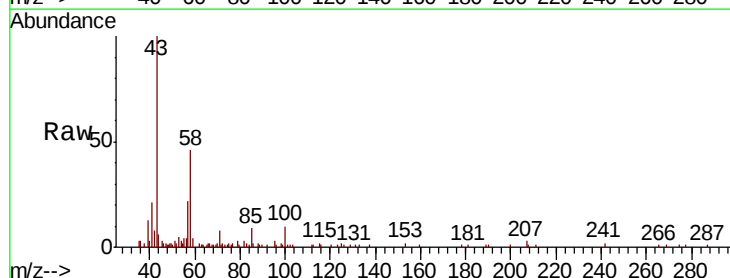
Acq: 21 Dec 2018 14:09

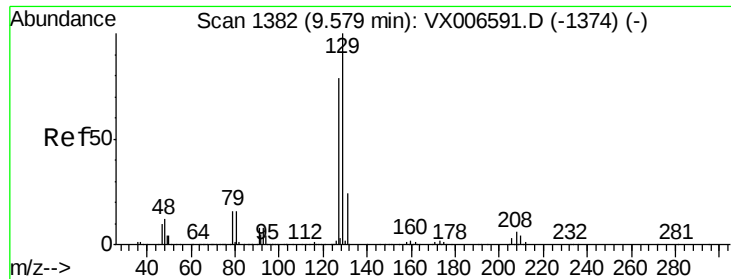
Tgt Ion: 43 Resp: 12319

Ion Ratio Lower Upper

43 100

58 56.8 27.7 83.1





#60

Dibromochloromethane

Concen: 2.336 ug/l

RT: 9.55 min Scan# 1377

Delta R.T. -0.03 min

Lab File: VX006721.D

Acq: 21 Dec 2018 14:09

Instrument :

MSVOA_X

ClientSampled :

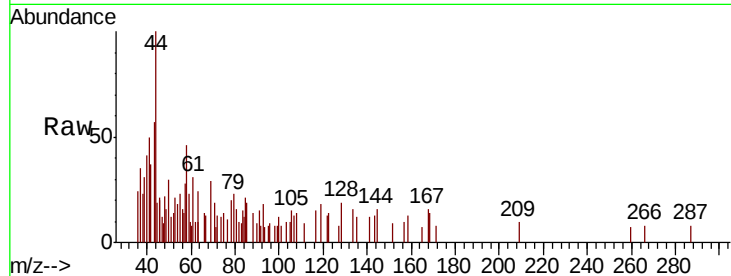
WATER-1

Tot Ion:129 Resp: 86

Ion Ratio Lower Upper

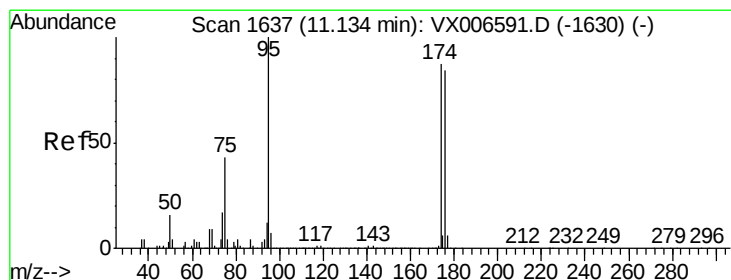
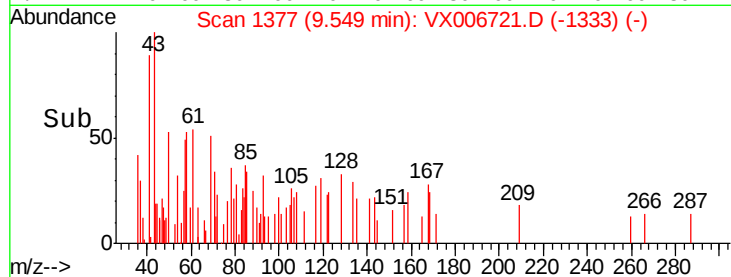
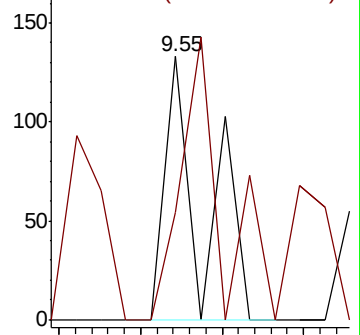
129 100

127 115.1 39.3 117.8



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 46.757 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.01 min

Lab File: VX006721.D

Acq: 21 Dec 2018 14:09

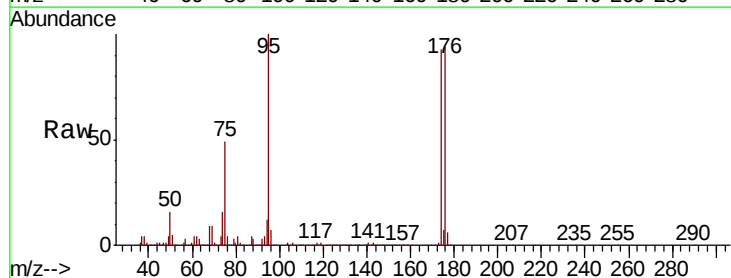
Tgt Ion: 95 Resp: 410791

Ion Ratio Lower Upper

95 100

174 88.9 0.0 182.2

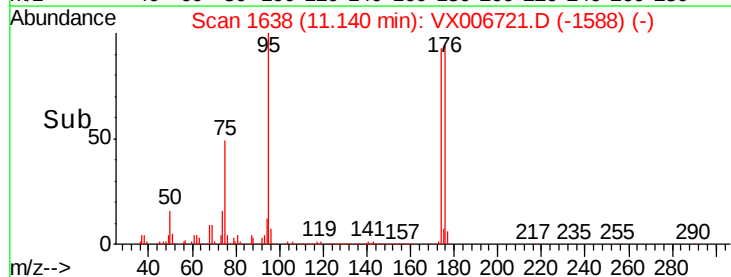
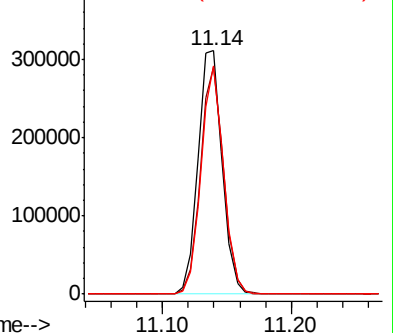
176 87.0 0.0 178.8

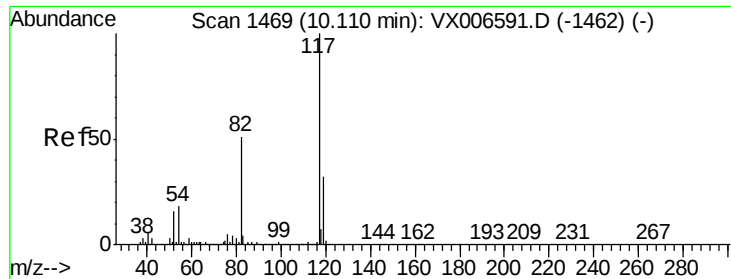


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX006721.D

Acq: 21 Dec 2018 14:09

Instrument :

MSVOA_X

ClientSampled :

WATER-1

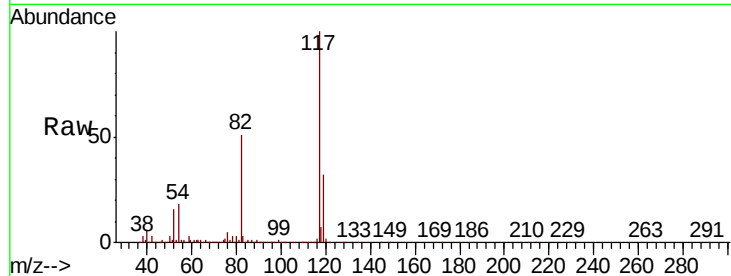
Tot Ion:117 Resp: 904121

Ion Ratio Lower Upper

117 100

82 50.8 41.0 61.6

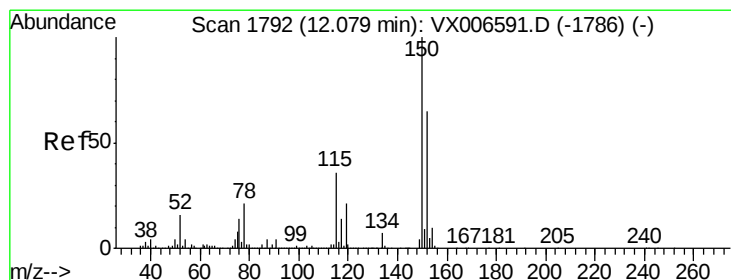
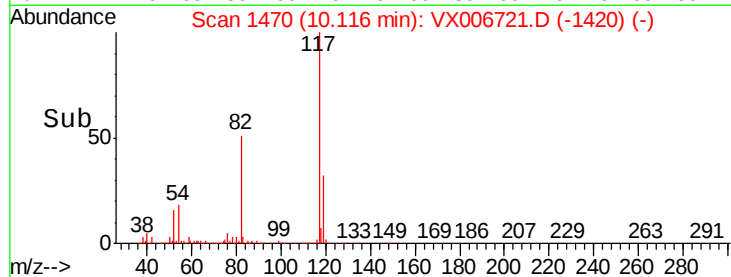
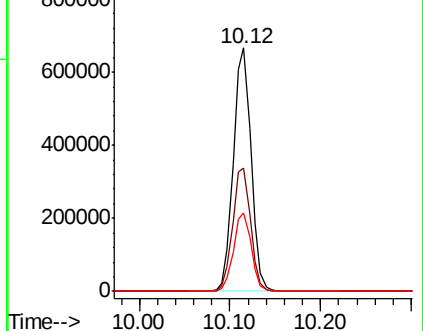
119 32.1 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX006721.D

Acq: 21 Dec 2018 14:09

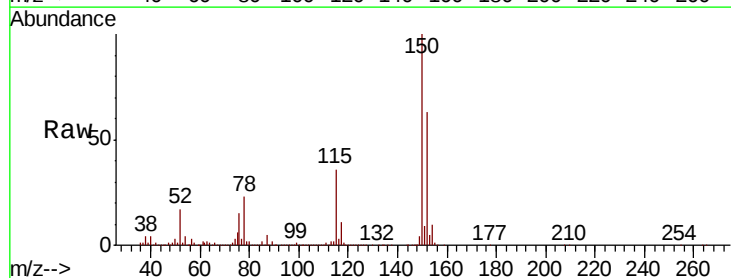
Tgt Ion:152 Resp: 429032

Ion Ratio Lower Upper

152 100

115 55.8 39.1 117.2

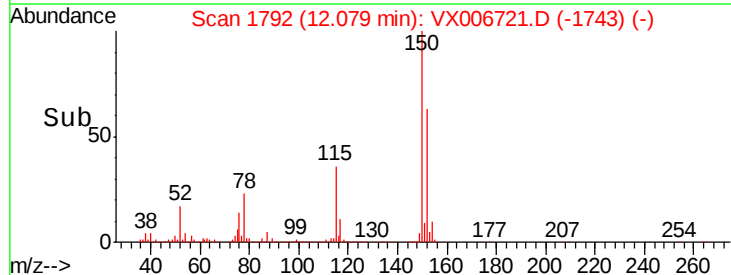
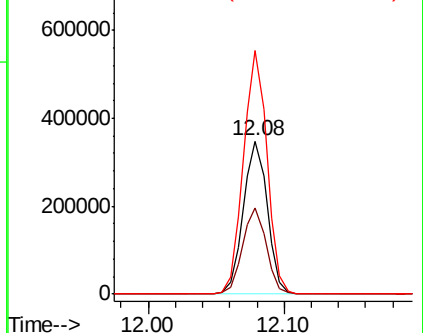
150 156.7 0.0 344.8

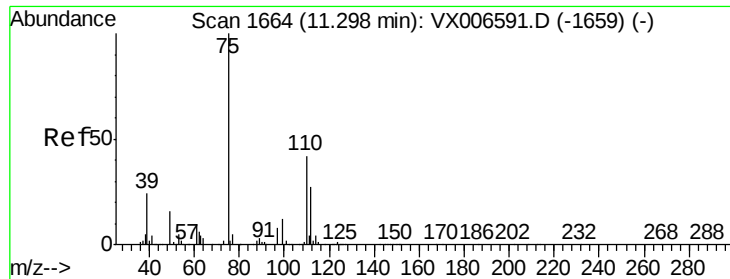


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

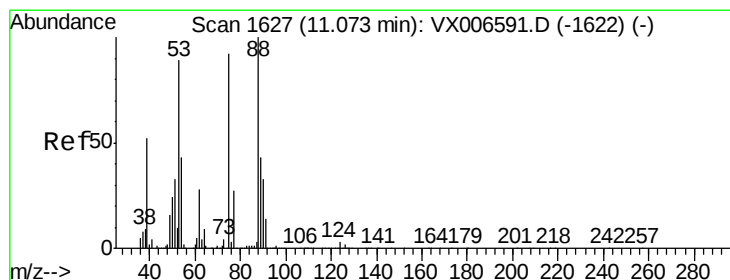
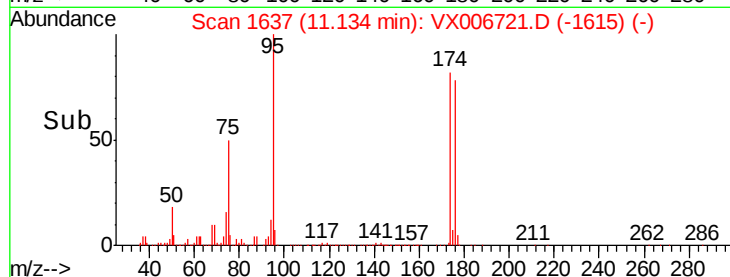
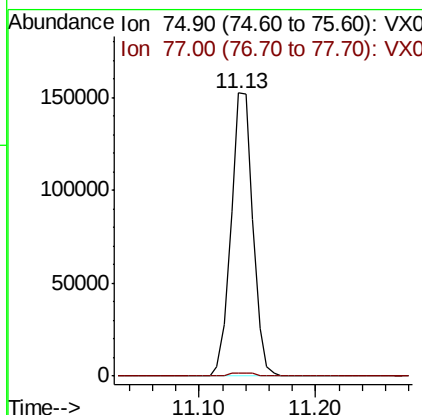
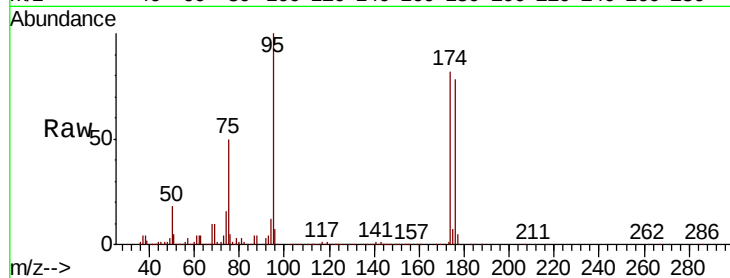




#76
 1,2,3-Trichloropropane
 Concen: 25.006 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX006721.D
 Acq: 21 Dec 2018 14:09

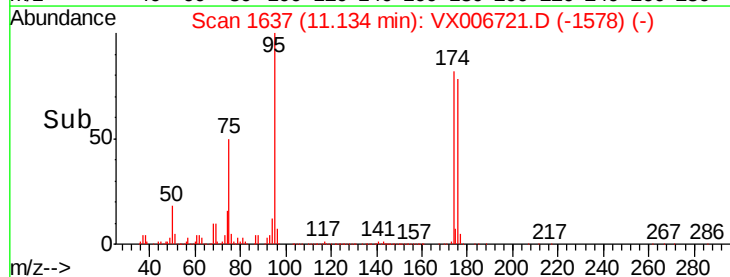
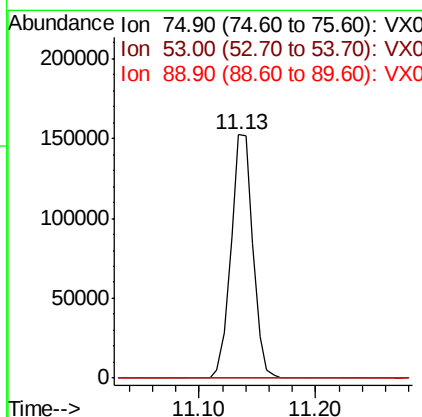
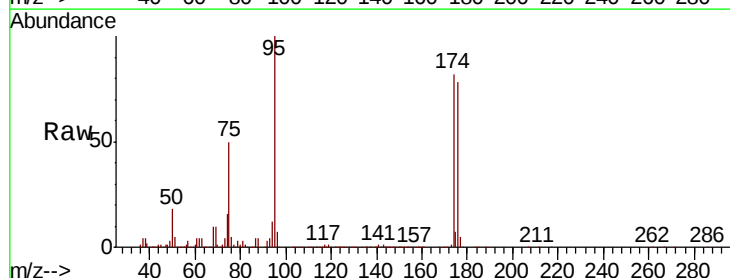
Instrument :
 MSVOA_X
 ClientSampleId :
 WATER-1

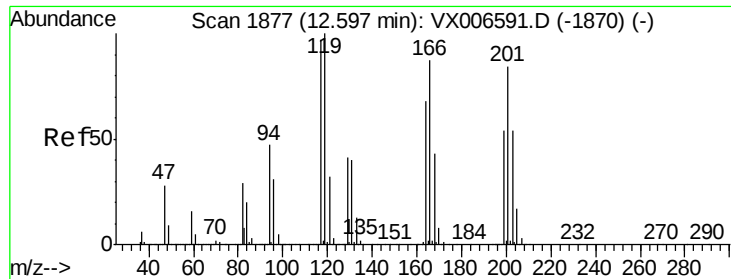
Tot Ion: 75 Resp: 199380
 Ion Ratio Lower Upper
 75 100
 77 1.4 18.5 55.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 73.892 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX006721.D
 Acq: 21 Dec 2018 14:09

Tgt Ion: 75 Resp: 199380
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.7 119.5#
 89 0.1 38.0 57.0#





#90

Hexachloroethane

Concen: 3.317 ug/l

RT: 12.57 min Scan# 1873

Delta R.T. -0.02 min

Lab File: VX006721.D

Acq: 21 Dec 2018 14:09

Instrument :

MSVOA_X

ClientSampleId :

WATER-1

Tot Ion:117 Resp: 103

Ion Ratio Lower Upper

117 100

201 91.3 42.9 128.7

