

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX011619\
 Data File : VX007071.D
 Acq On : 16 Jan 2019 13:00
 Operator : JC/SP
 Sample : K1151-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OUTFALL001-190115

Quant Time: Jan 16 23:58:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	576132	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	897104	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	828130	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	395589	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	309220	51.36	ug/l	0.00
Spiked Amount			Recovery	=	102.72%	
35) Dibromofluoromethane	5.51	113	272432	47.42	ug/l	0.00
Spiked Amount			Recovery	=	94.84%	
50) Toluene-d8	8.71	98	1058145	50.32	ug/l	0.00
Spiked Amount			Recovery	=	100.64%	
62) 4-Bromofluorobenzene	11.13	95	374730	51.12	ug/l	0.00
Spiked Amount			Recovery	=	102.24%	

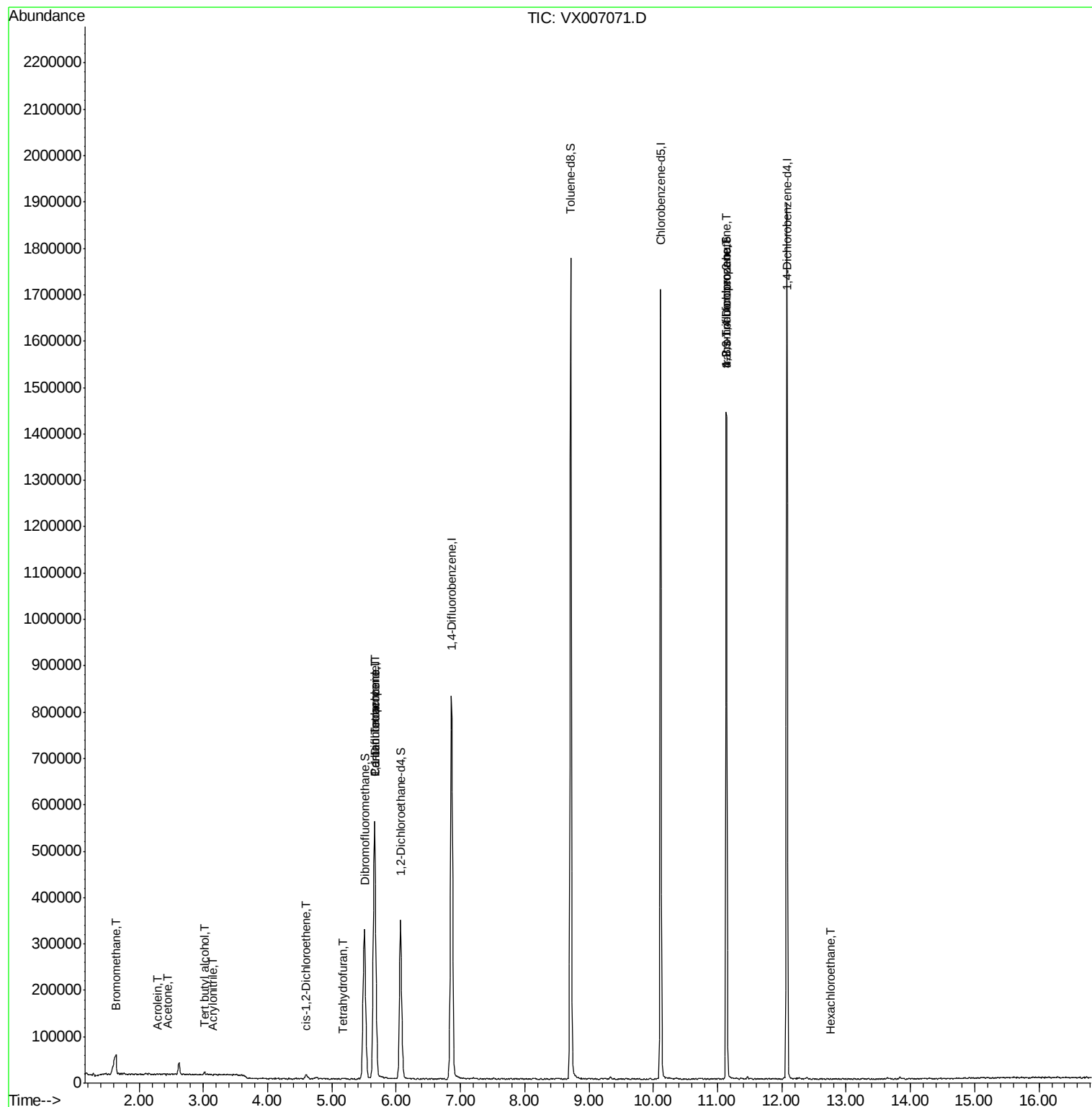
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1670	0.264	ug/l	82
11) Tert butyl alcohol	3.02	59	4807	3.384	ug/l #	87
13) Acrolein	2.29	56	256	3.497	ug/l #	1
15) Acrylonitrile	3.15	53	656	0.201	ug/l #	86
16) Acetone	2.45	43	1531	0.514	ug/l #	80
20) Methylene Chloride	2.85	84	762	Below Cal	#	19
27) cis-1,2-Dichloroethene	4.59	96	5531	0.850	ug/l	97
29) Tetrahydrofuran	5.17	42	910	0.329	ug/l #	33
36) 1,1-Dichloropropene	5.66	75	38323	4.913	ug/l #	49
38) Carbon Tetrachloride	5.67	117	51793	6.600	ug/l #	14
49) 1,4-Dioxane	7.74	88	88	Below Cal	#	1
76) 1,2,3-Trichloropropane	11.13	75	178214	22.231	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	178214	65.797	ug/l #	10
90) Hexachloroethane	12.75	117	46	2.919	ug/l	75

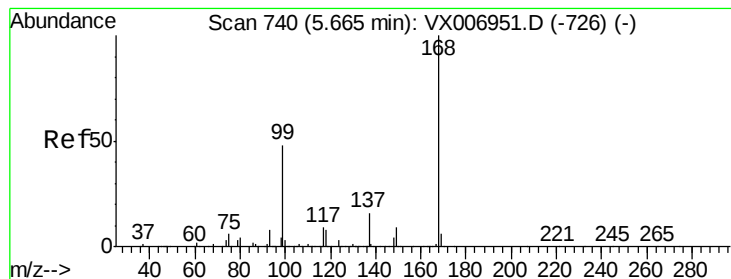
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX007071.D

Acq: 16 Jan 2019 13:00

Instrument :

MSVOA_X

ClientSampleId :

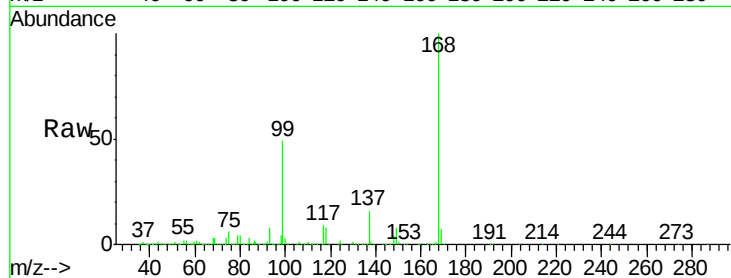
OUTFALL001-190115

Tot Ion:168 Resp: 576132

Ion Ratio Lower Upper

168 100

99 48.8 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

200000

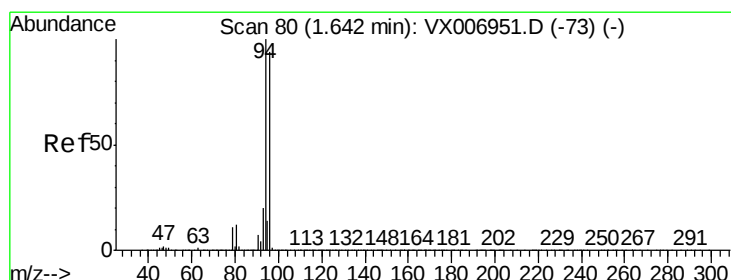
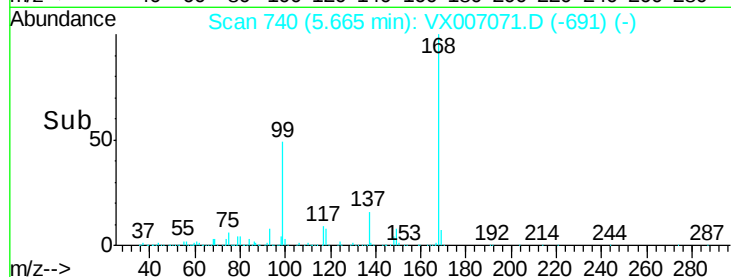
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.264 ug/l

RT: 1.64 min Scan# 80

Delta R.T. -0.00 min

Lab File: VX007071.D

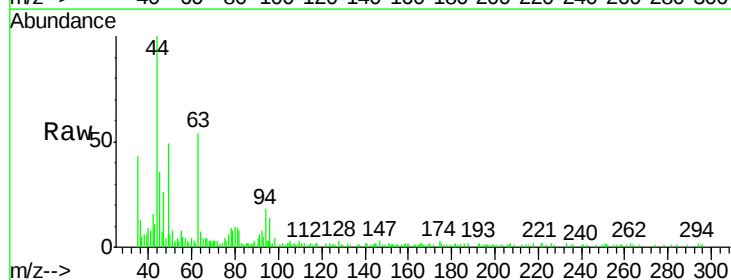
Acq: 16 Jan 2019 13:00

Tgt Ion: 94 Resp: 1670

Ion Ratio Lower Upper

94 100

96 74.8 73.4 110.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

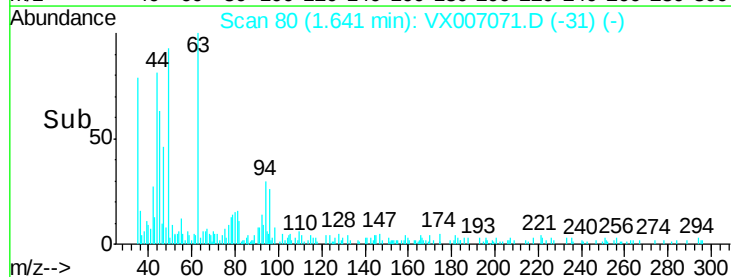
1500

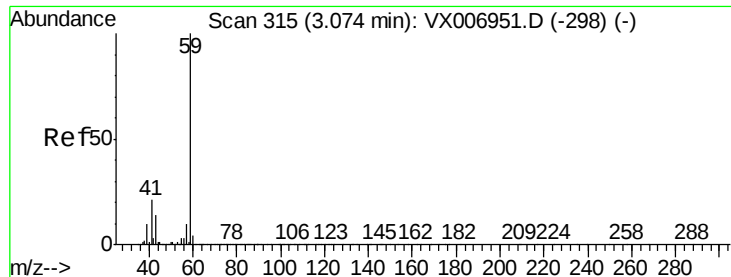
1000

500

0

Time-->



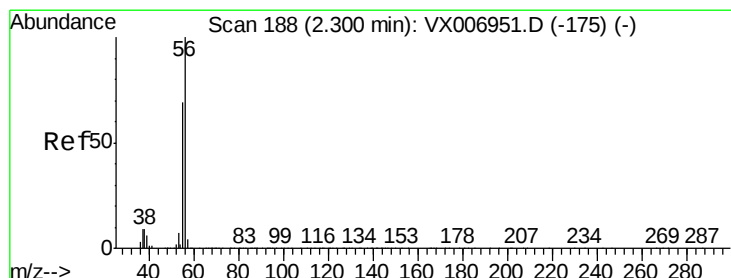
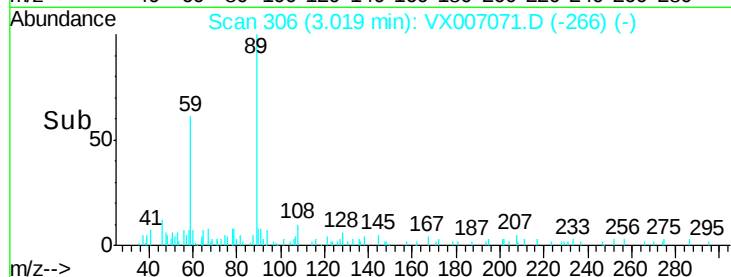
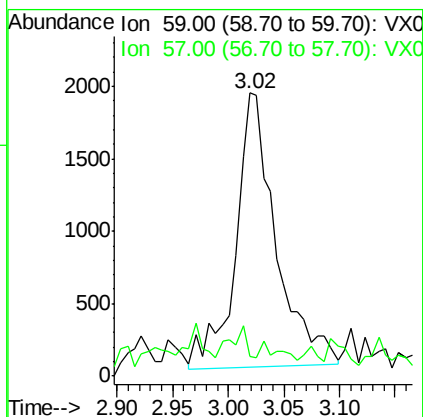
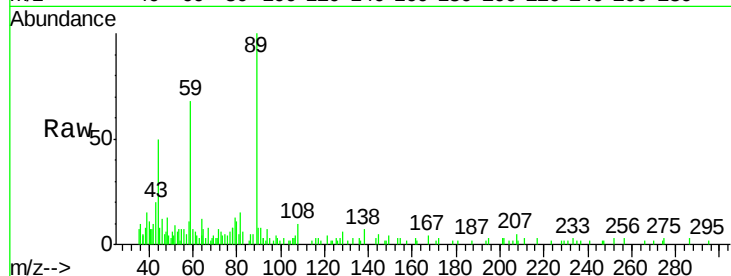


#11

Tert butyl alcohol
Concen: 3.384 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX007071.D
Acq: 16 Jan 2019 13:00

Instrument :
MSVOA_X
ClientSampleId :
OUTFALL001-190115

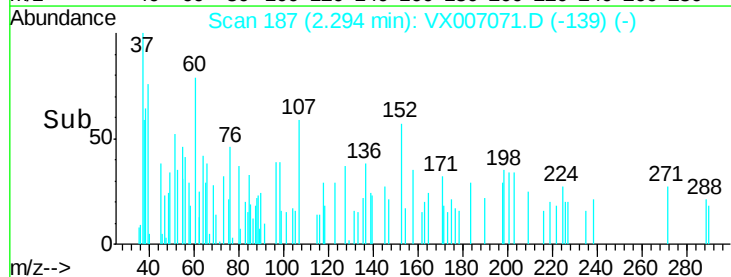
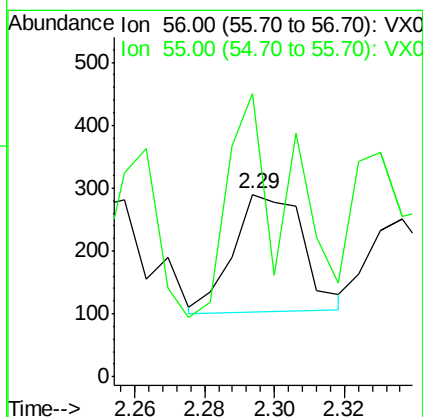
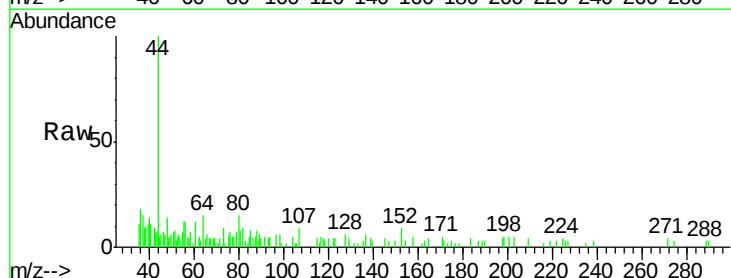
Tot Ion: 59 Resp: 4807
Ion Ratio Lower Upper
59 100
57 5.7 8.5 12.7#

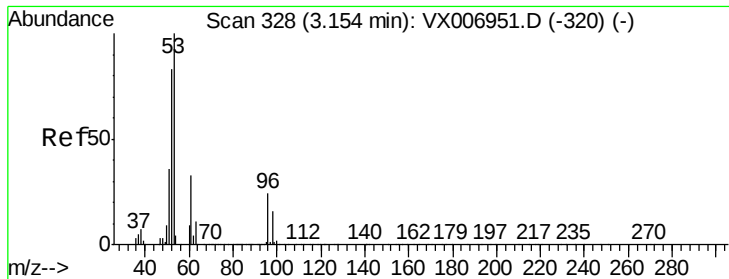


#13

Acrolein
Concen: 3.497 ug/l
RT: 2.29 min Scan# 187
Delta R.T. -0.01 min
Lab File: VX007071.D
Acq: 16 Jan 2019 13:00

Tgt Ion: 56 Resp: 256
Ion Ratio Lower Upper
56 100
55 178.1 58.2 87.4#





#15

Acrylonitrile

Concen: 0.201 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.01 min

Lab File: VX007071.D

Acq: 16 Jan 2019 13:00

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-190115

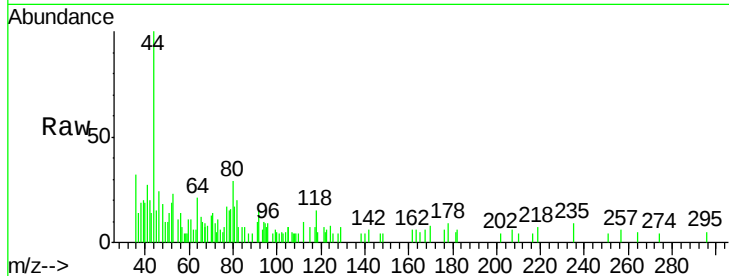
Tot Ion: 53 Resp: 656

Ion Ratio Lower Upper

53 100

52 65.2 66.0 99.0#

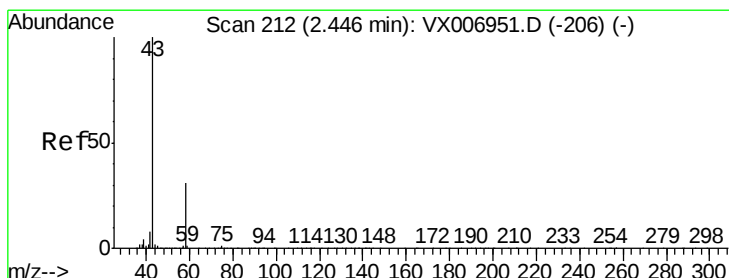
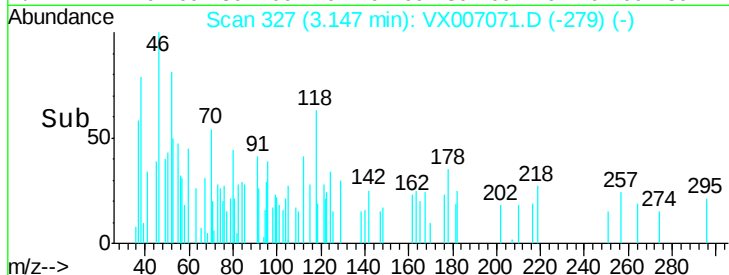
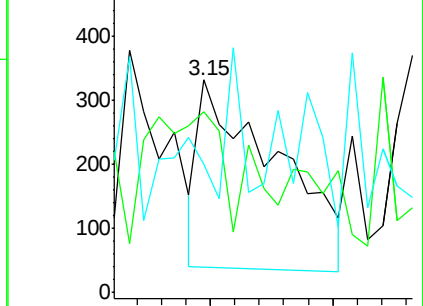
51 35.4 28.6 42.8



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 0.514 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX007071.D

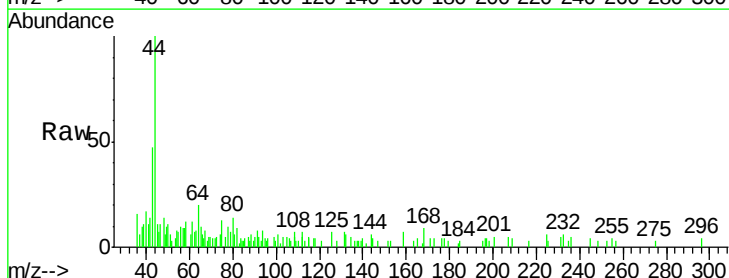
Acq: 16 Jan 2019 13:00

Tgt Ion: 43 Resp: 1531

Ion Ratio Lower Upper

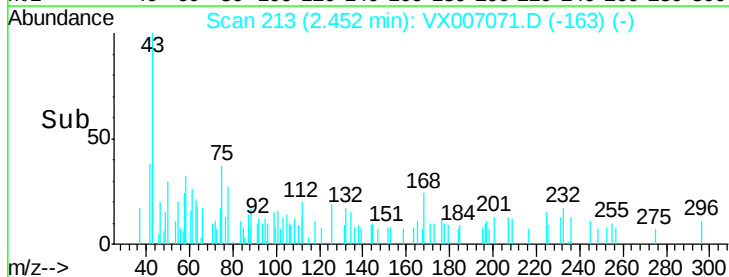
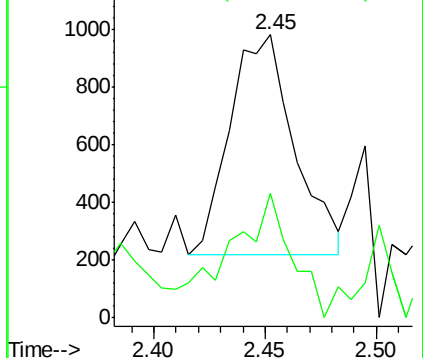
43 100

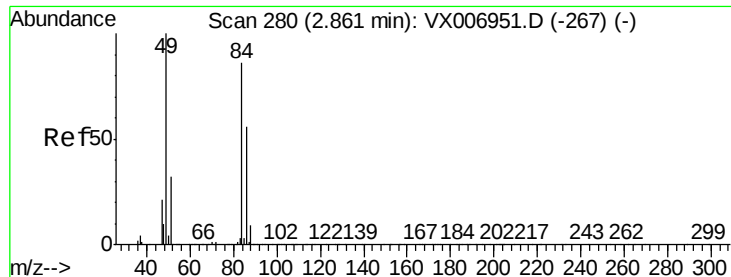
58 42.6 25.0 37.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX007071.D

Acq: 16 Jan 2019 13:00

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-190115

Tot Ion: 84 Resp: 762

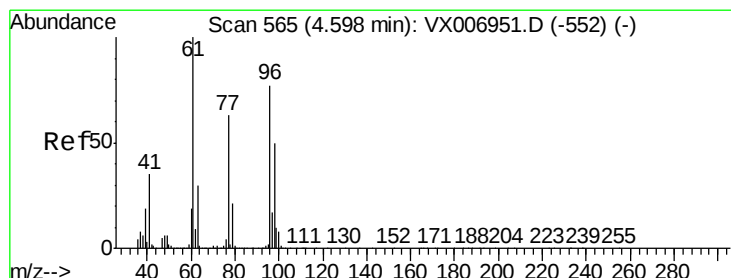
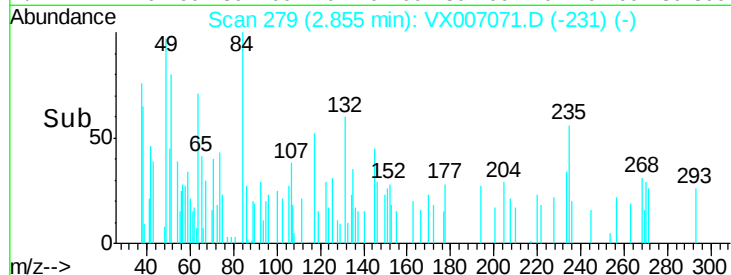
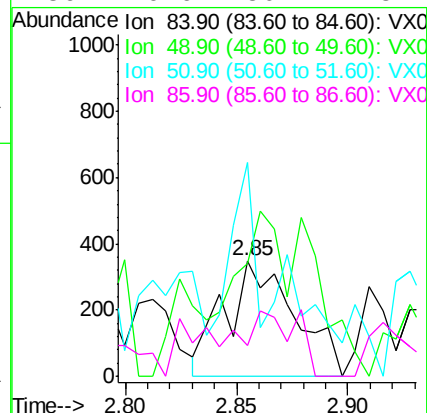
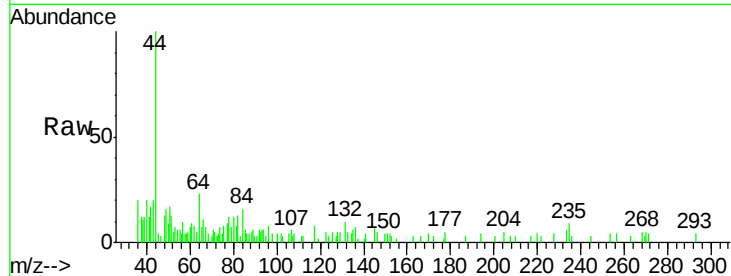
Ion Ratio Lower Upper

84 100

49 48.6 91.8 137.6#

51 155.4 28.5 42.7#

86 26.6 50.2 75.2#



#27

cis-1,2-Dichloroethene

Concen: 0.850 ug/l

RT: 4.59 min Scan# 564

Delta R.T. -0.01 min

Lab File: VX007071.D

Acq: 16 Jan 2019 13:00

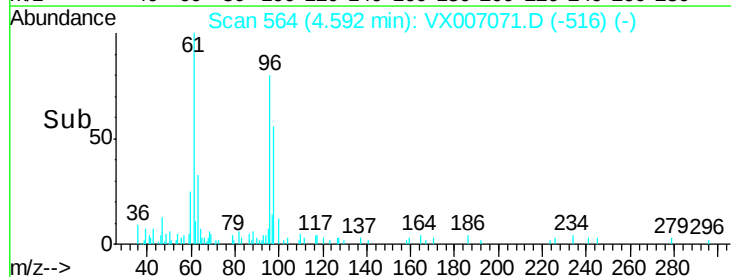
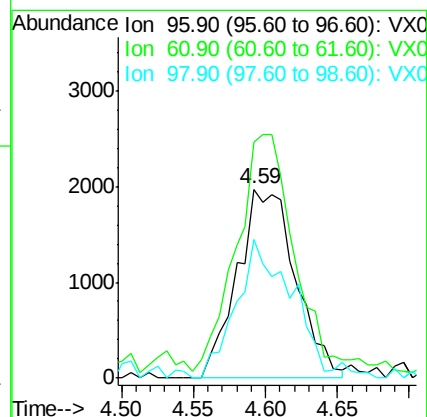
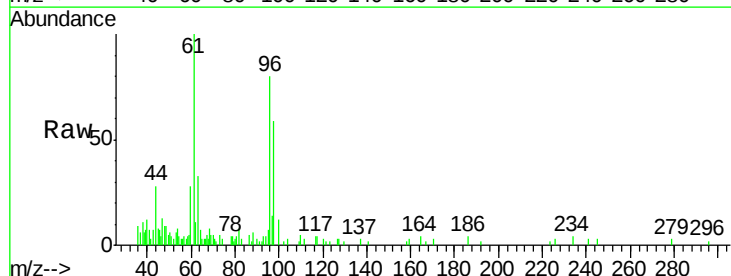
Tgt Ion: 96 Resp: 5531

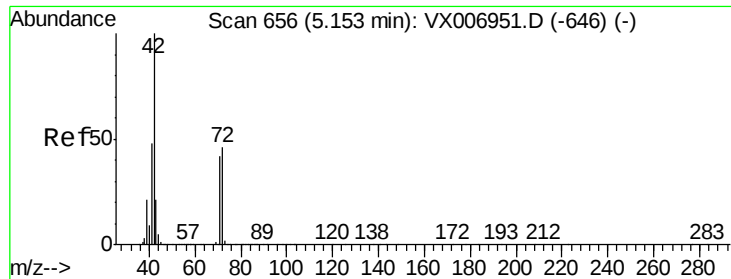
Ion Ratio Lower Upper

96 100

61 131.4 0.0 258.6

98 69.7 0.0 132.0





#29

Tetrahydrofuran

Concen: 0.329 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX007071.D

Acq: 16 Jan 2019 13:00

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-190115

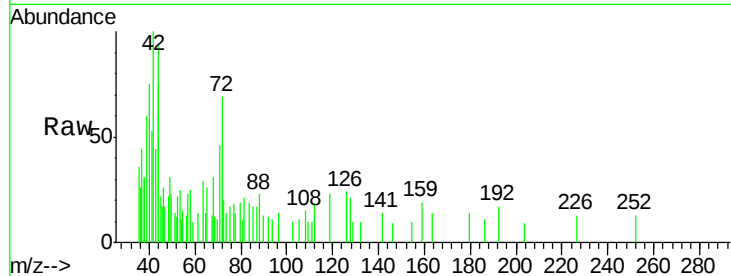
Tot Ion: 42 Resp: 910

Ion Ratio Lower Upper

42 100

72 116.2 38.9 58.3#

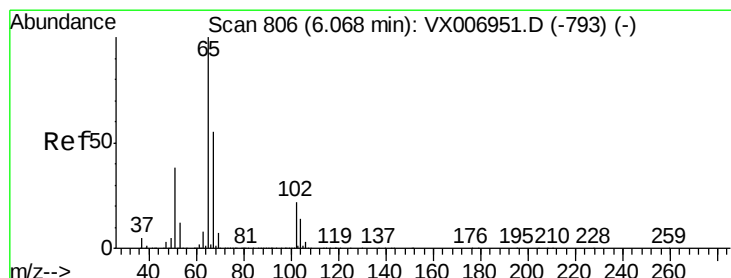
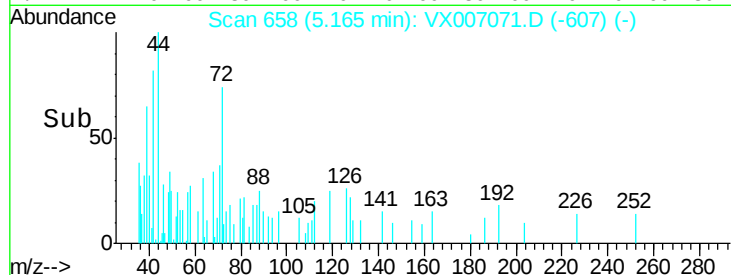
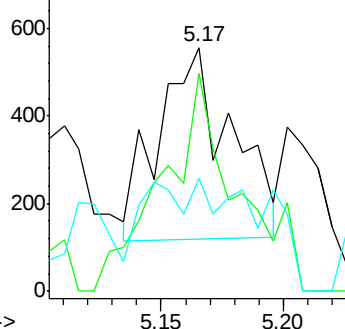
71 23.5 36.2 54.4#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 51.356 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX007071.D

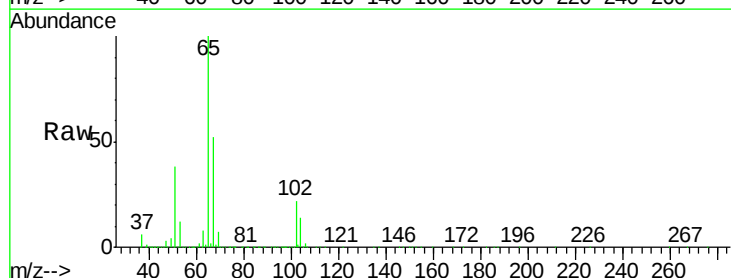
Acq: 16 Jan 2019 13:00

Tgt Ion: 65 Resp: 309220

Ion Ratio Lower Upper

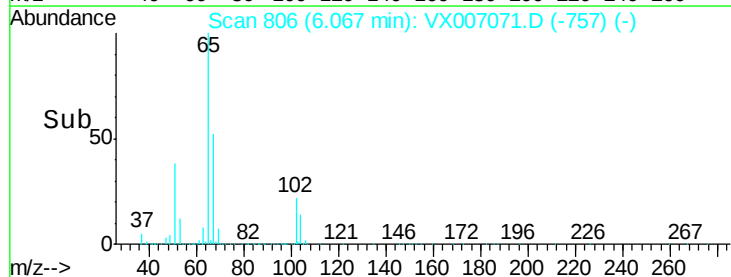
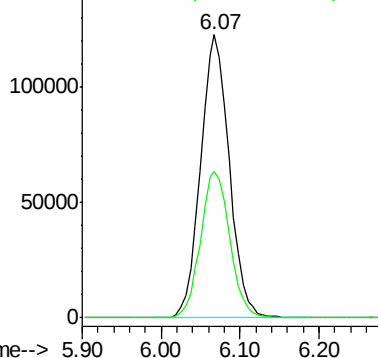
65 100

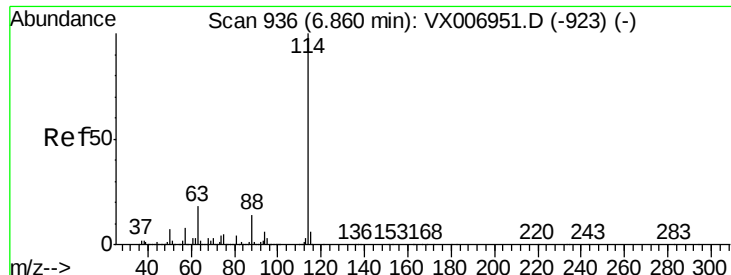
67 52.9 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007071.D

Acq: 16 Jan 2019 13:00

Instrument :

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OUTFALL001-190115

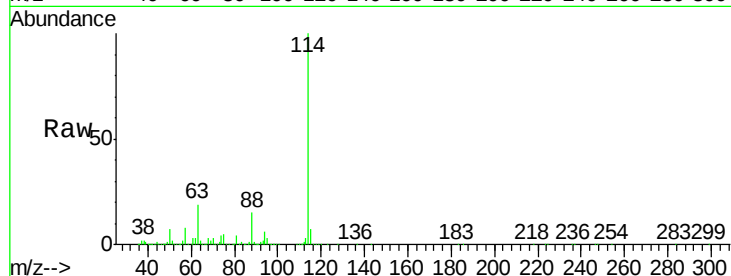
Tot Ion:114 Resp: 897104

Ion Ratio Lower Upper

114 100

63 18.5 0.0 34.8

88 14.7 0.0 28.8



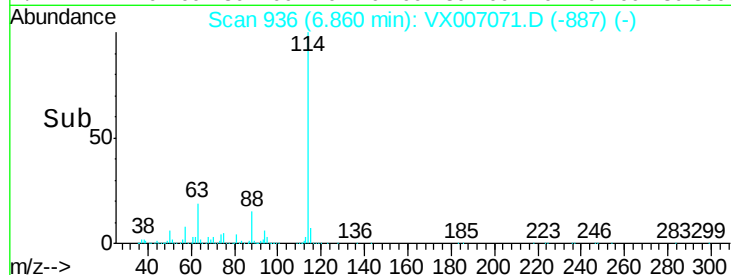
Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

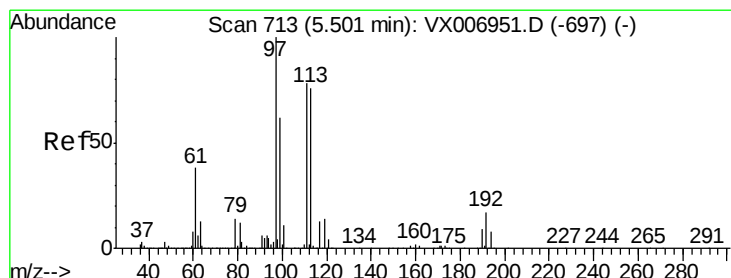
Ion 87.90 (87.60 to 88.60): VX0

6.86

Time-->



Time-->



#35

Dibromofluoromethane

Concen: 47.421 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007071.D

Acq: 16 Jan 2019 13:00

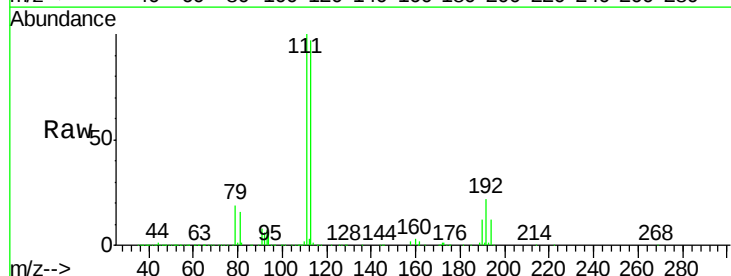
Tgt Ion:113 Resp: 272432

Ion Ratio Lower Upper

113 100

111 101.9 81.6 122.4

192 22.2 16.7 25.1



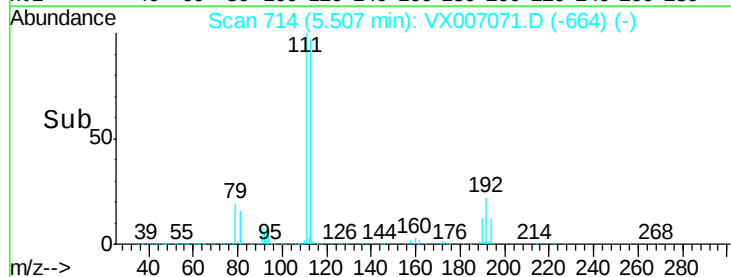
Abundance Ion 112.80 (112.50 to 113.50): V

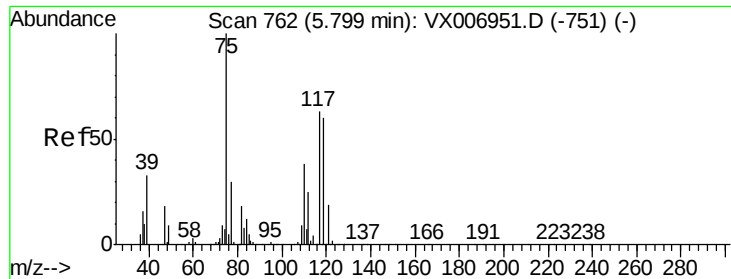
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

5.51

Time-->





#36

1,1-Dichloropropene

Concen: 4.913 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX007071.D

Acq: 16 Jan 2019 13:00

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-190115

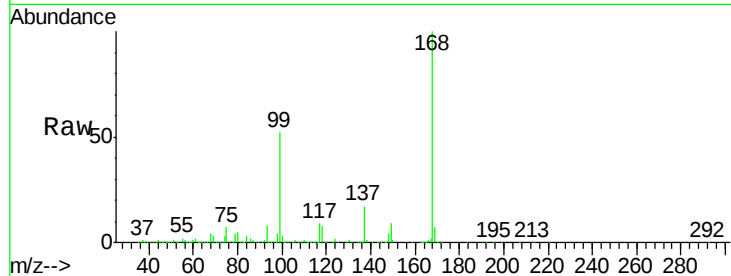
Tot Ion: 75 Resp: 38323

Ion Ratio Lower Upper

75 100

110 10.6 20.2 60.5#

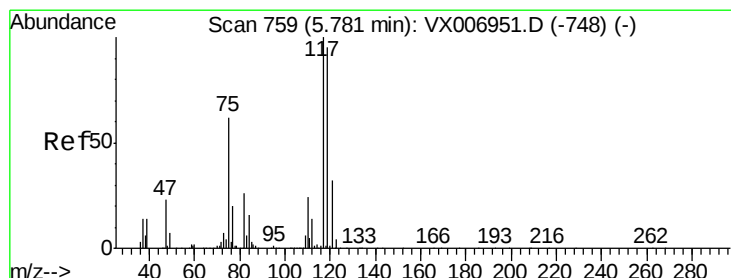
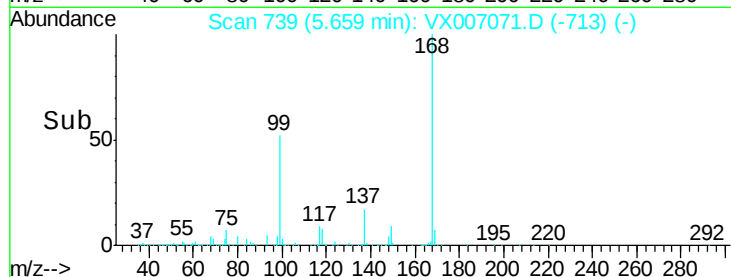
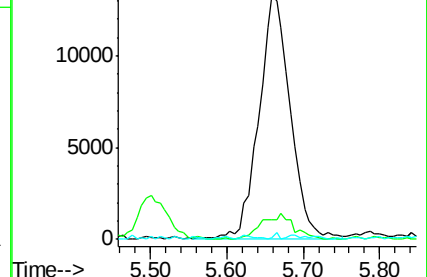
77 0.5 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX006951.D (-751) (-)

Ion 109.90 (109.60 to 110.60): VX006951.D (-751) (-)

Ion 76.90 (76.60 to 77.60): VX006951.D (-751) (-)



#38

Carbon Tetrachloride

Concen: 6.600 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007071.D

Acq: 16 Jan 2019 13:00

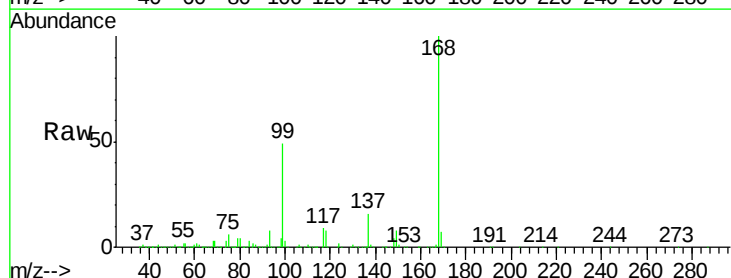
Tgt Ion: 117 Resp: 51793

Ion Ratio Lower Upper

117 100

119 3.8 79.4 119.2#

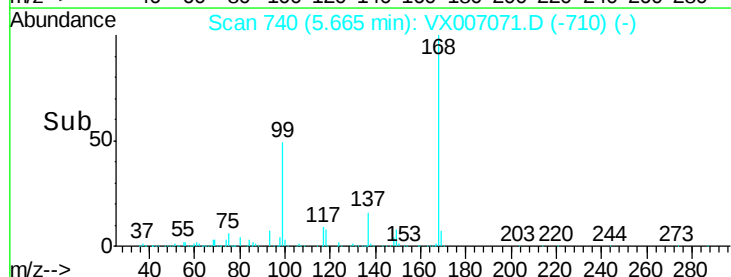
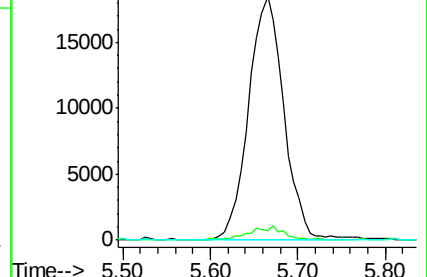
121 0.0 24.0 36.0#

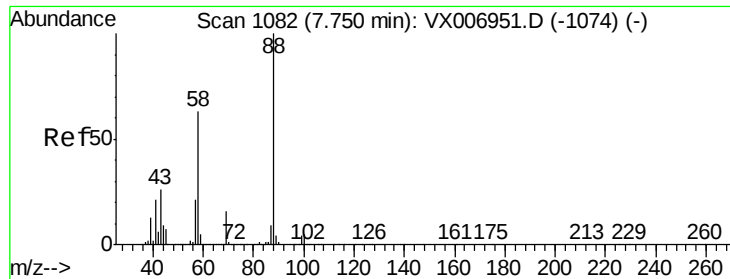


Abundance Ion 116.80 (116.50 to 117.50): VX006951.D (-748) (-)

Ion 118.80 (118.50 to 119.50): VX006951.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX006951.D (-748) (-)





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.74 min Scan# 1081

Delta R.T. -0.01 min

Lab File: VX007071.D

Acq: 16 Jan 2019 13:00

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-190115

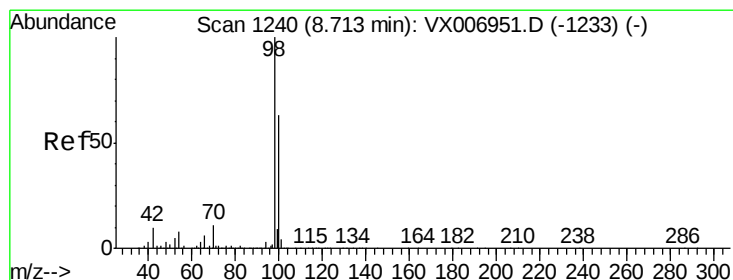
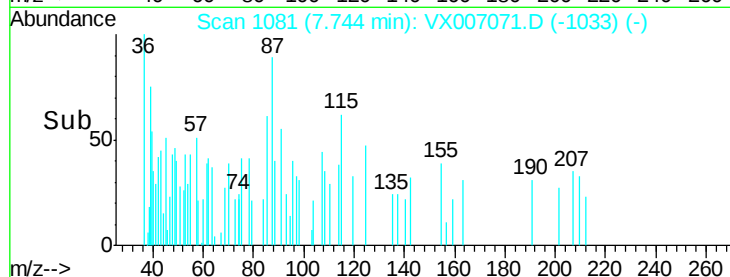
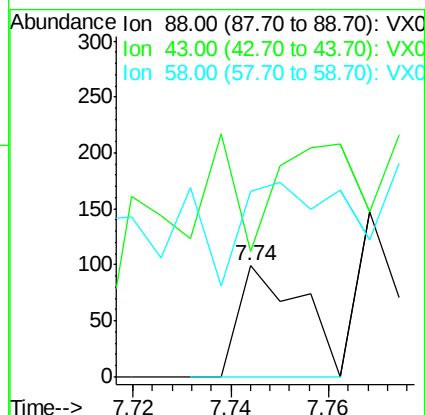
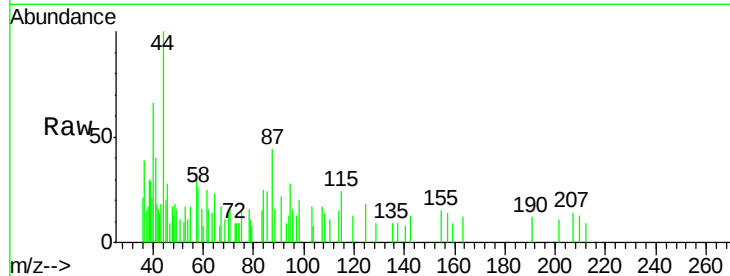
Tot Ion: 88 Resp: 88

Ion Ratio Lower Upper

88 100

43 314.8 22.2 33.4#

58 212.5 51.0 76.4#



#50

Toluene-d8

Concen: 50.320 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007071.D

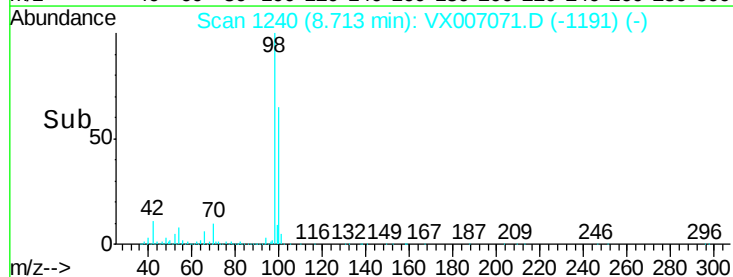
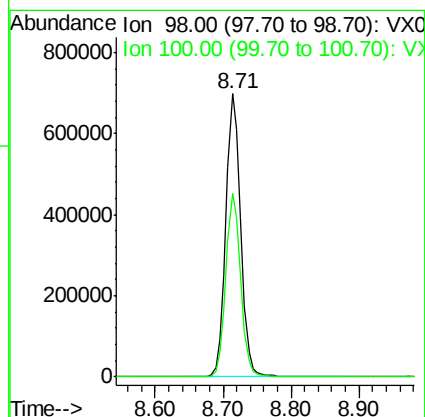
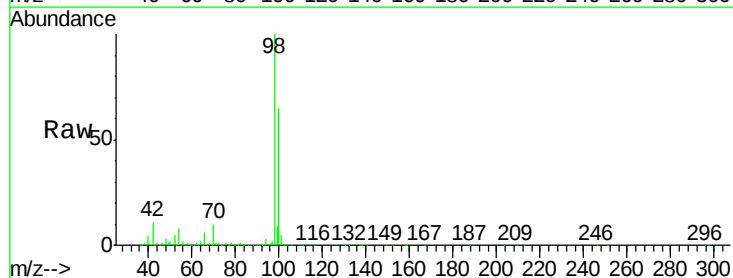
Acq: 16 Jan 2019 13:00

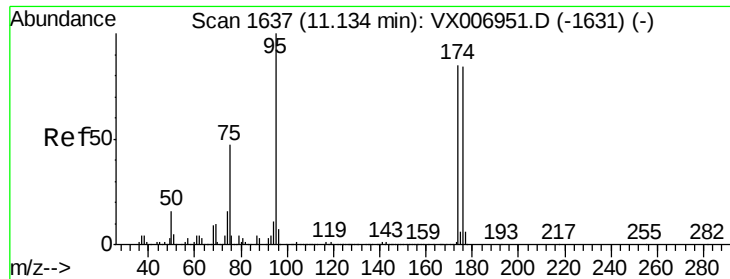
Tgt Ion: 98 Resp: 1058145

Ion Ratio Lower Upper

98 100

100 64.5 52.0 78.0





#62

4-Bromofluorobenzene

Concen: 51.116 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007071.D

Acq: 16 Jan 2019 13:00

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-190115

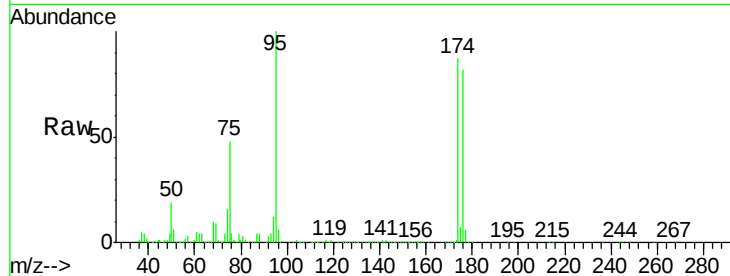
Tot Ion: 95 Resp: 374730

Ion Ratio Lower Upper

95 100

174 93.3 0.0 182.2

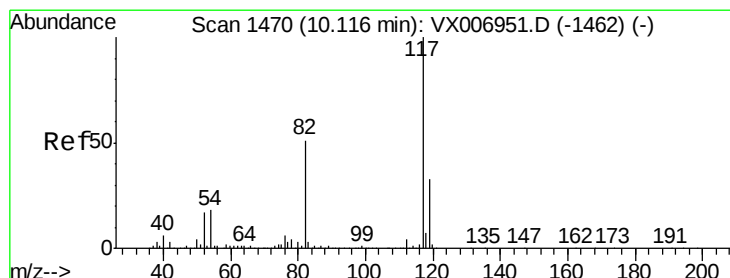
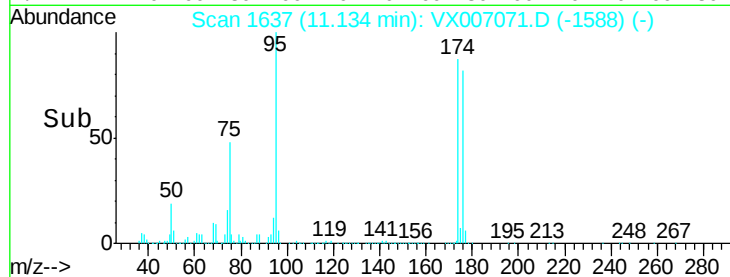
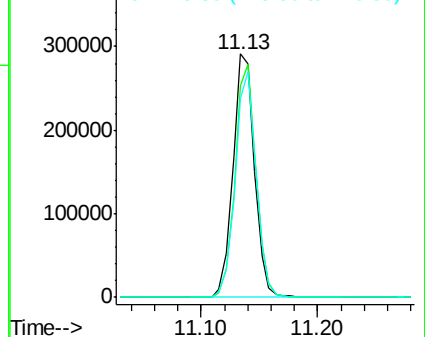
176 90.3 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): VX006951.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX006951.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX006951.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX007071.D

Acq: 16 Jan 2019 13:00

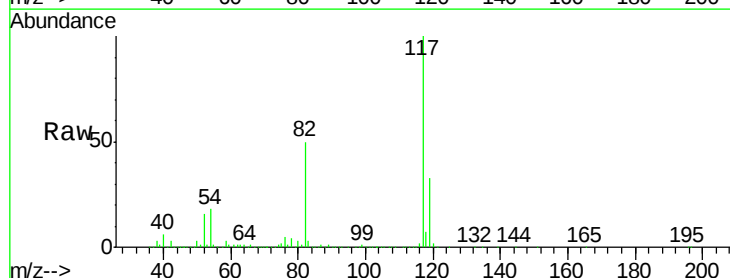
Tgt Ion: 117 Resp: 828130

Ion Ratio Lower Upper

117 100

82 49.9 41.0 61.6

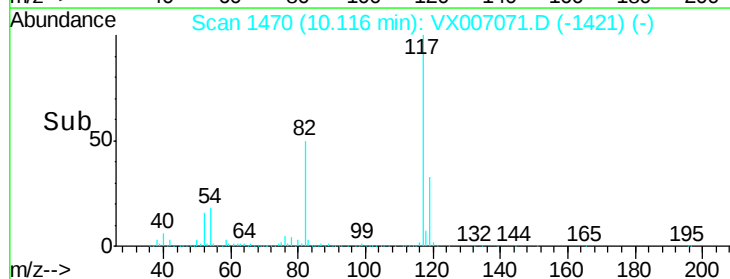
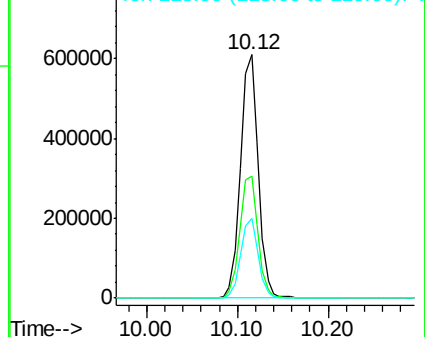
119 32.5 25.4 38.0

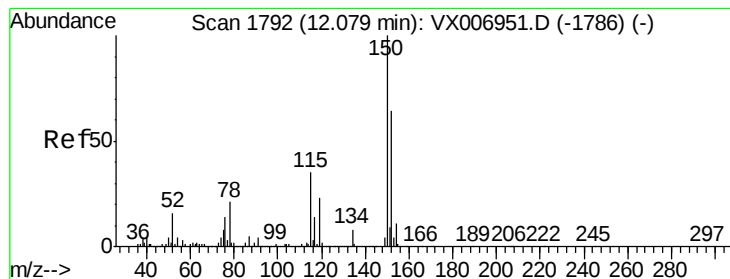


Abundance Ion 116.90 (116.60 to 117.60): VX006951.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX006951.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX006951.D (-1462) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX007071.D

Acq: 16 Jan 2019 13:00

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-190115

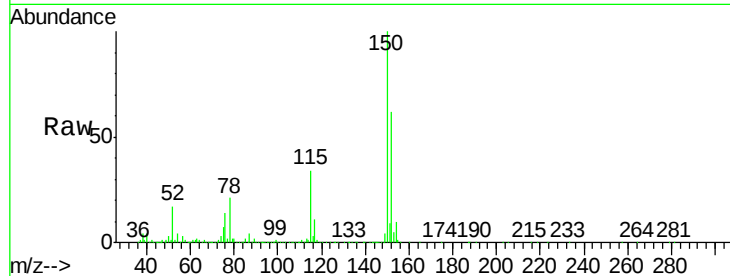
Tot Ion:152 Resp: 395589

Ion Ratio Lower Upper

152 100

115 55.0 39.1 117.2

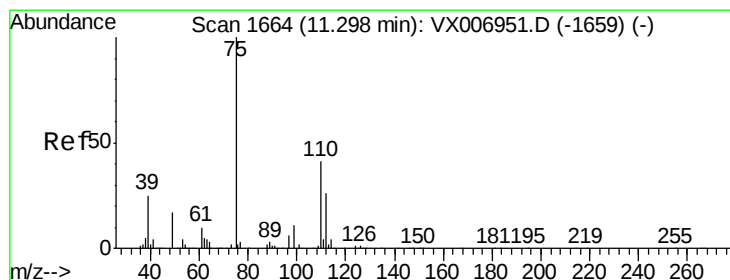
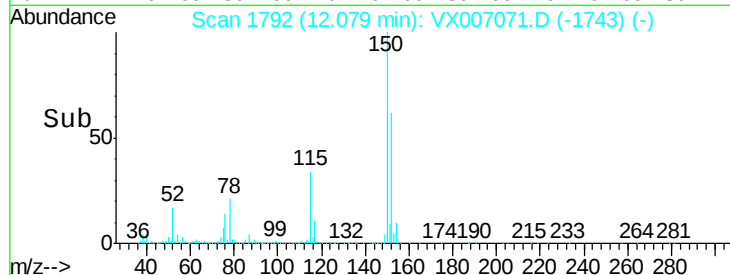
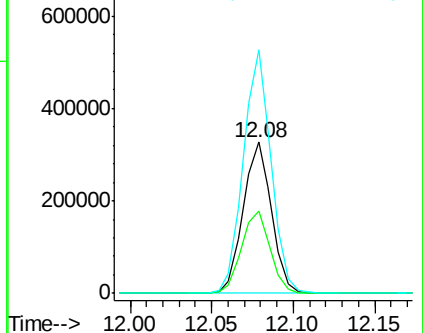
150 158.1 0.0 344.8



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: 22.231 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007071.D

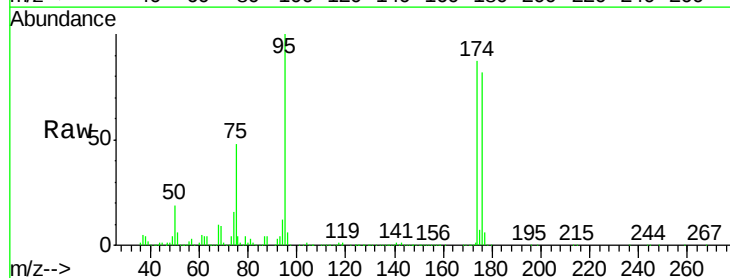
Acq: 16 Jan 2019 13:00

Tgt Ion: 75 Resp: 178214

Ion Ratio Lower Upper

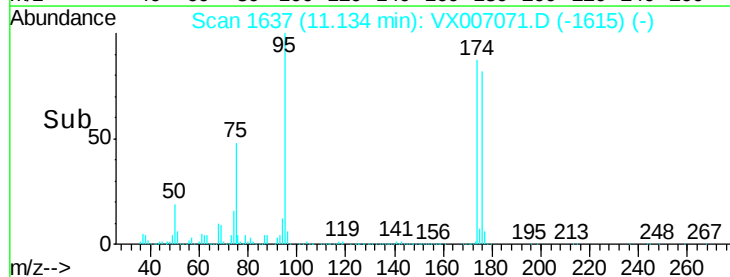
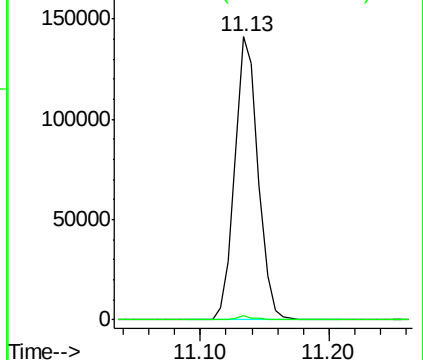
75 100

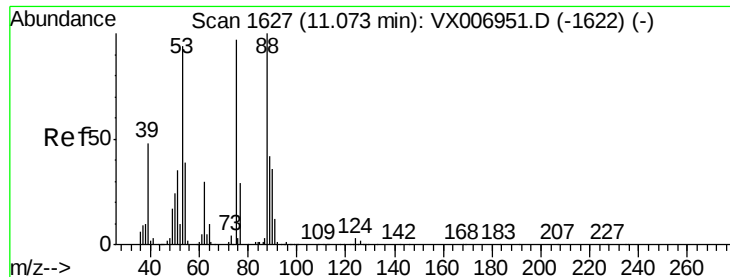
77 1.3 18.5 55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 65.797 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007071.D

Acq: 16 Jan 2019 13:00

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-190115

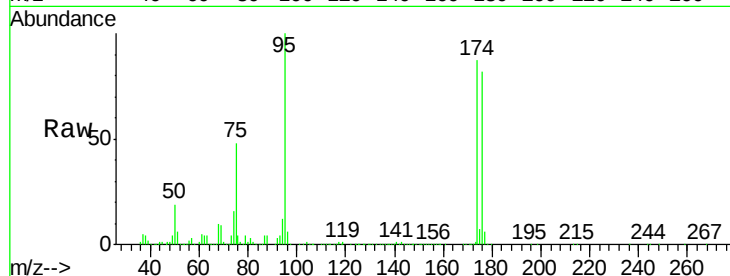
Tot Ion: 75 Resp: 178214

Ion Ratio Lower Upper

75 100

53 0.2 79.7 119.5#

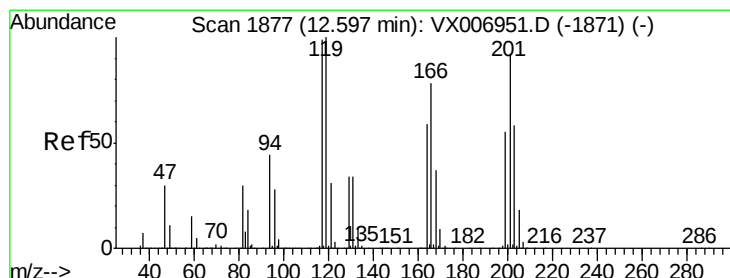
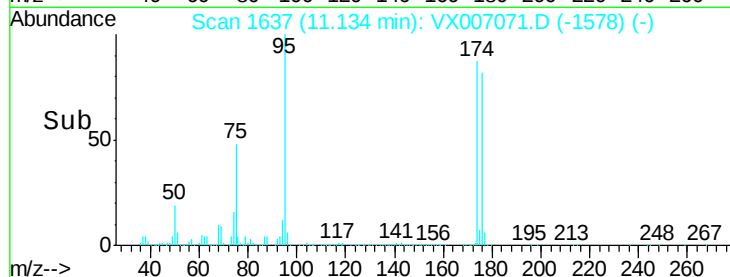
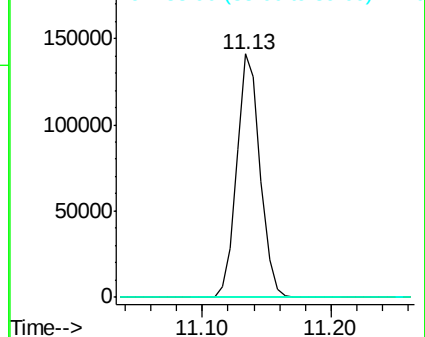
89 0.0 38.0 57.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#90

Hexachloroethane

Concen: 2.919 ug/l

RT: 12.75 min Scan# 1902

Delta R.T. 0.15 min

Lab File: VX007071.D

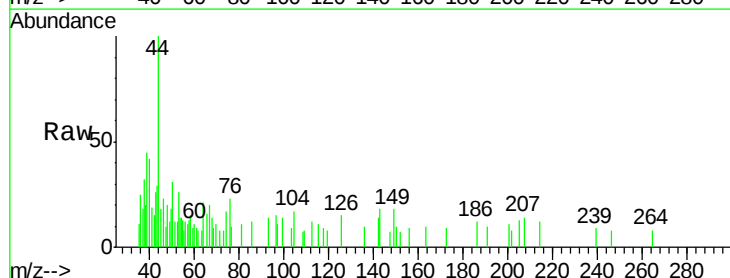
Acq: 16 Jan 2019 13:00

Tgt Ion: 117 Resp: 46

Ion Ratio Lower Upper

117 100

201 63.0 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

