

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071719\
 Data File : VX010933.D
 Acq On : 17 Jul 2019 14:10
 Operator : JC/SP
 Sample : K3856-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OUTFALL001-190716

Quant Time: Jul 18 02:29:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 17 06:57:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	219767	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	349003	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	324564	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	149898	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	117962	50.45	ug/l	0.00
Spiked Amount			Recovery	=	100.90%	
35) Dibromofluoromethane	5.49	113	109588	49.47	ug/l	0.00
Spiked Amount			Recovery	=	98.94%	
50) Toluene-d8	8.71	98	419492	50.49	ug/l	0.00
Spiked Amount			Recovery	=	100.98%	
62) 4-Bromofluorobenzene	11.13	95	146810	48.07	ug/l	0.00
Spiked Amount			Recovery	=	96.14%	

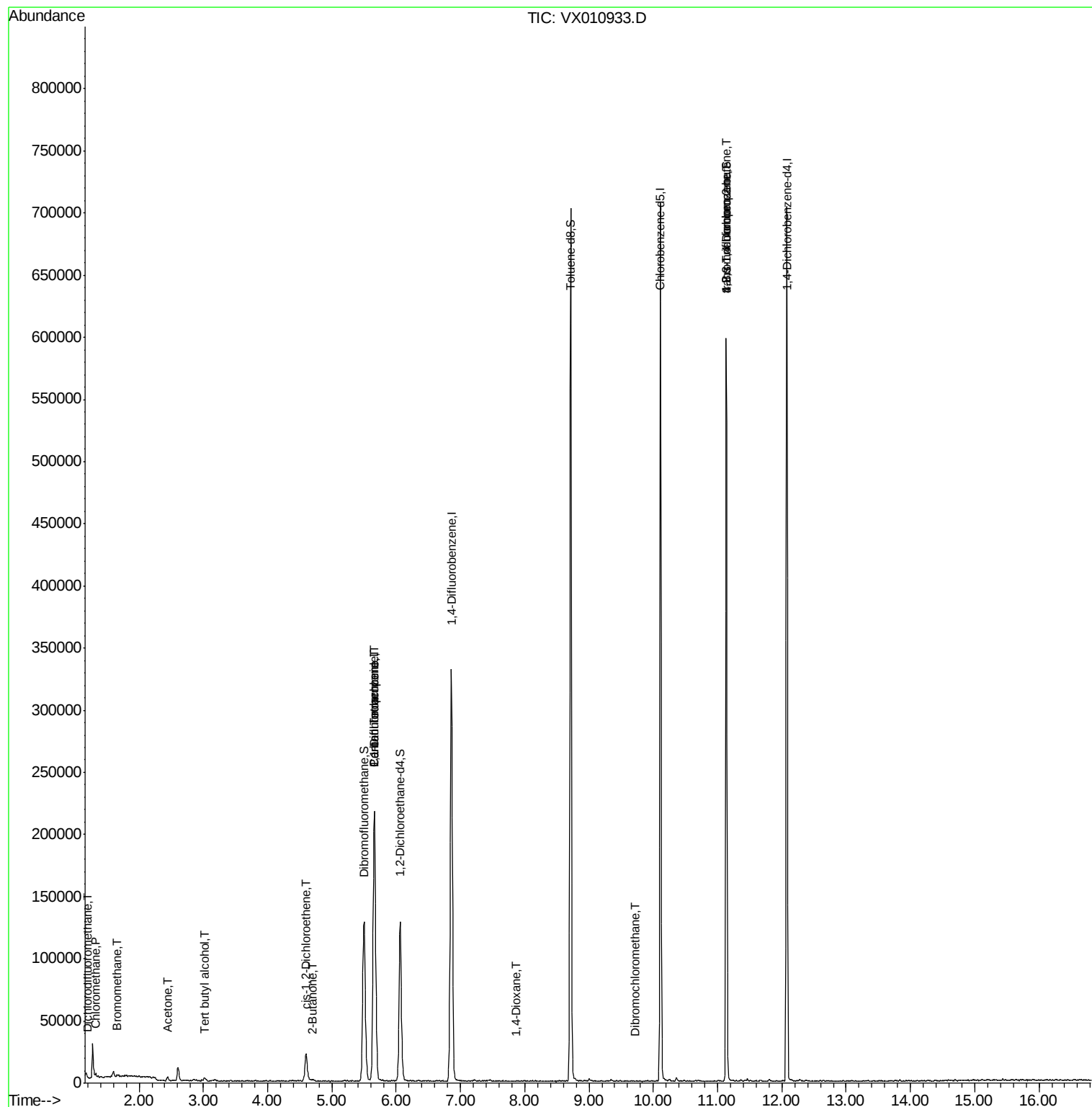
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	71	0.576	ug/l #	43
3) Chloromethane	1.33	50	1641	0.812	ug/l	98
5) Bromomethane	1.65	94	474	0.408	ug/l #	79
11) Tert butyl alcohol	3.01	59	1749	3.212	ug/l	100
16) Acetone	2.45	43	3244	3.072	ug/l	99
25) 2-Butanone	4.70	43	589	0.389	ug/l #	46
27) cis-1,2-Dichloroethene	4.60	96	14691	6.112	ug/l	90
36) 1,1-Dichloropropene	5.67	75	14637	5.106	ug/l #	50
38) Carbon Tetrachloride	5.66	117	20348	6.812	ug/l #	18
49) 1,4-Dioxane	7.87	88	26	0.395	ug/l #	1
60) Dibromochloromethane	9.71	129	19	2.534	ug/l #	11
76) 1,2,3-Trichloropropane	11.13	75	73160	27.046	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	73160	67.049	ug/l #	11

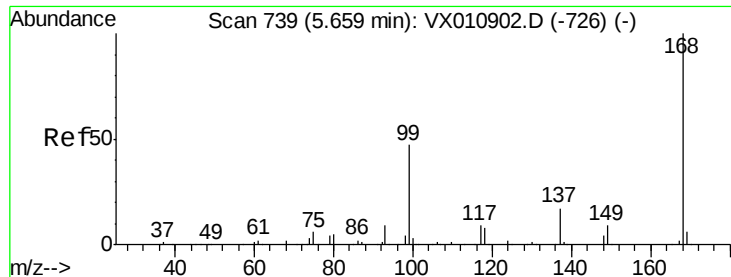
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX010933.D

Acq: 17 Jul 2019 14:10

Instrument :

MSVOA_X

ClientSampleId :

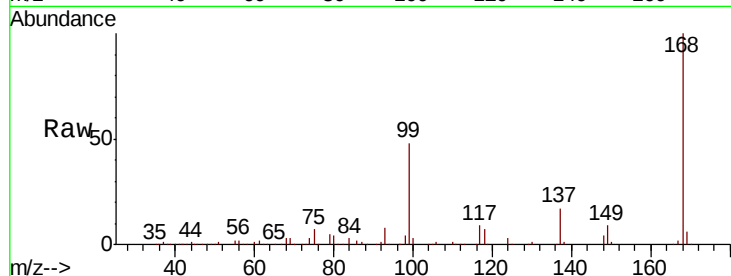
OUTFALL001-190716

Tot Ion:168 Resp: 219767

Ion Ratio Lower Upper

168 100

99 47.6 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

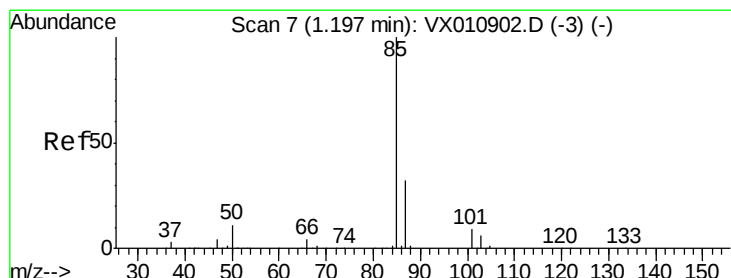
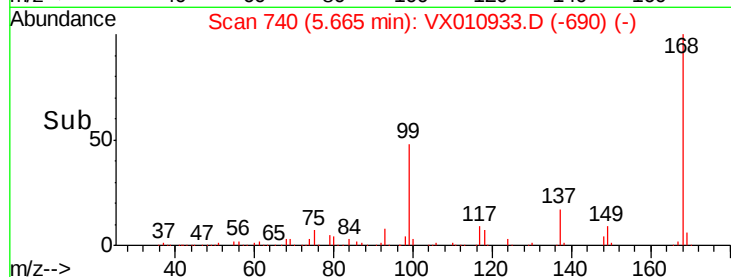
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.576 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX010933.D

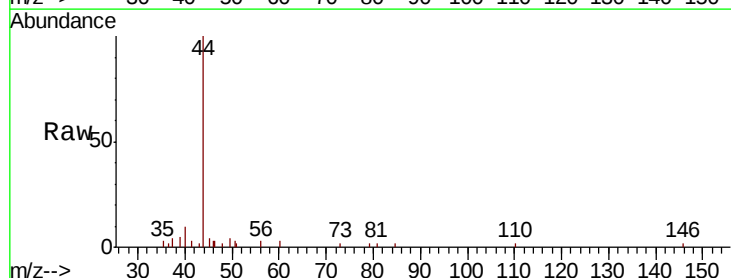
Acq: 17 Jul 2019 14:10

Tgt Ion: 85 Resp: 71

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

80

60

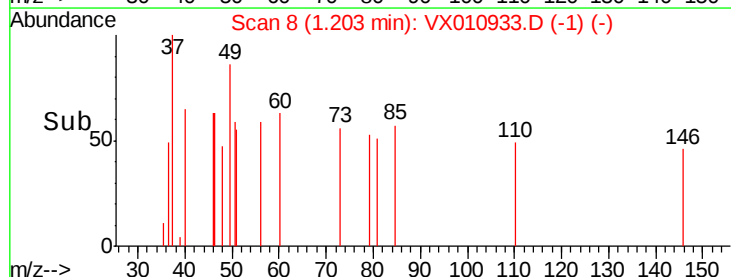
40

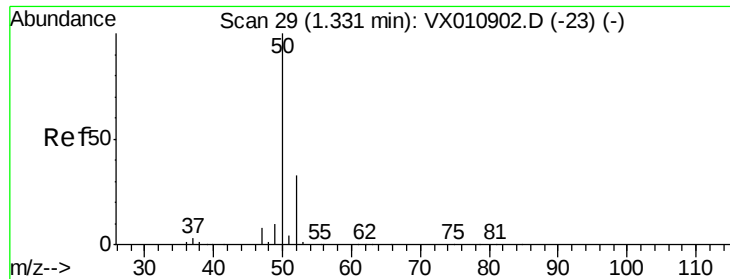
20

0

Time-->

1.18 1.20 1.22 1.24





#3

Chloromethane

Concen: 0.812 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX010933.D

Acq: 17 Jul 2019 14:10

Instrument :

MSVOA_X

ClientSampleId :

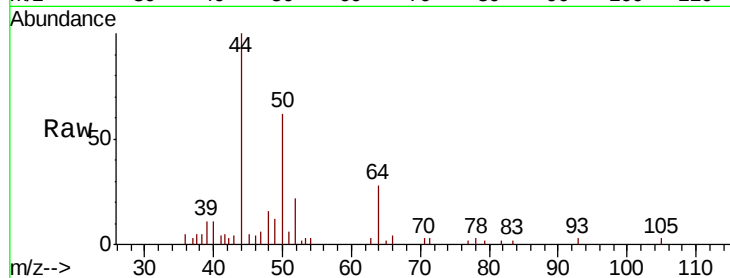
OUTFALL001-190716

Tot Ion: 50 Resp: 1641

Ion Ratio Lower Upper

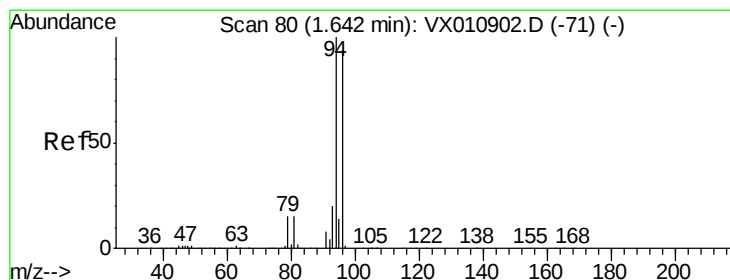
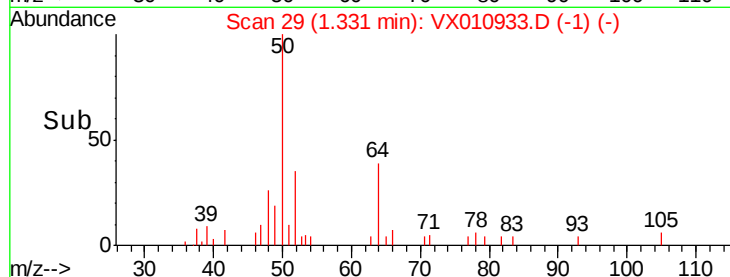
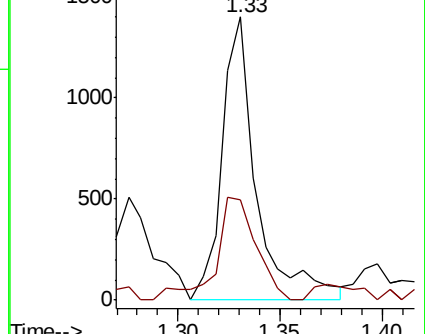
50 100

52 31.6 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: 0.408 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX010933.D

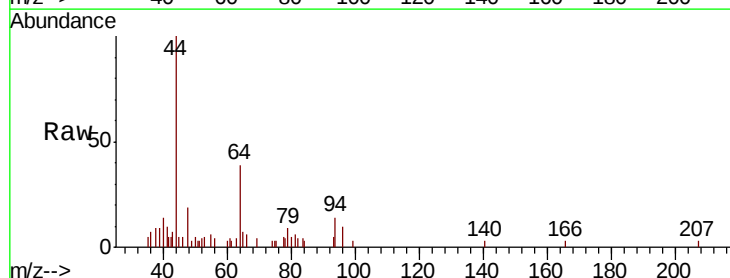
Acq: 17 Jul 2019 14:10

Tgt Ion: 94 Resp: 474

Ion Ratio Lower Upper

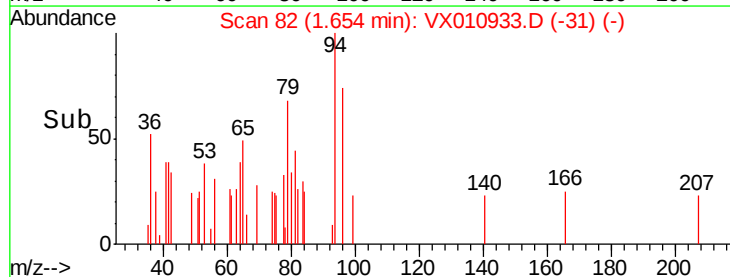
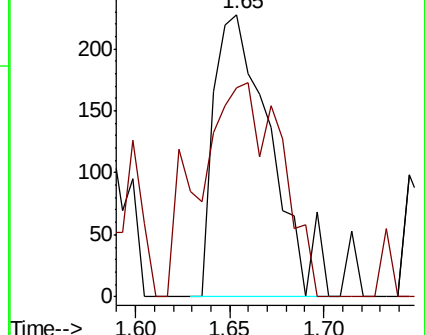
94 100

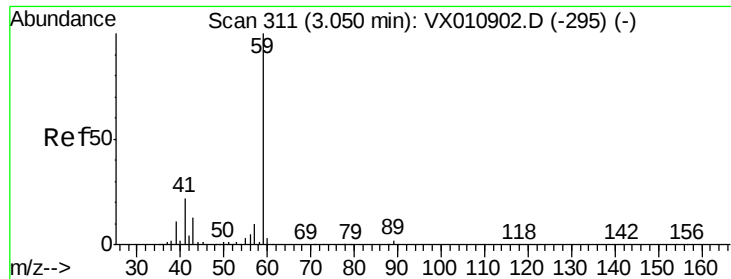
96 74.1 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

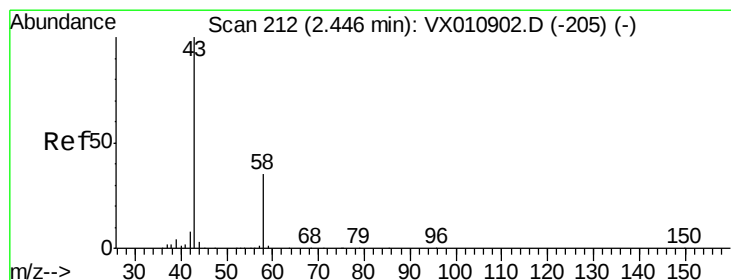
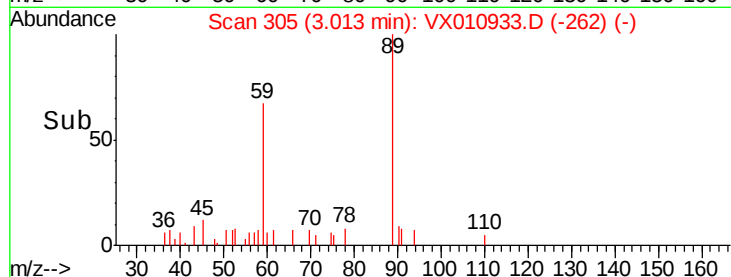
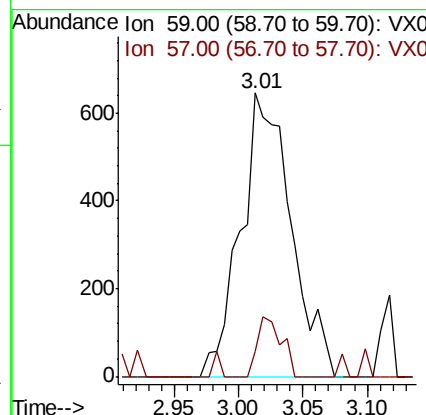
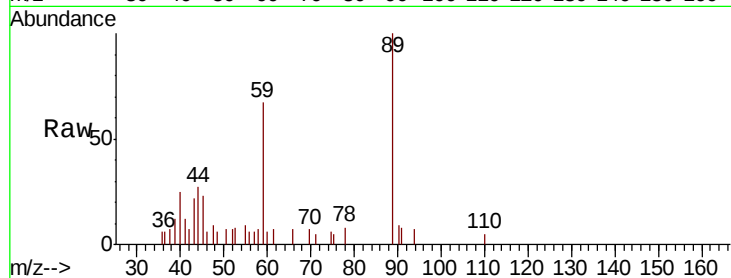




#11
Tert butyl alcohol
Concen: 3.212 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX010933.D
Acq: 17 Jul 2019 14:10

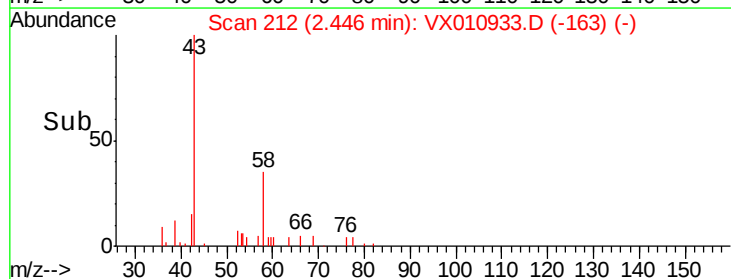
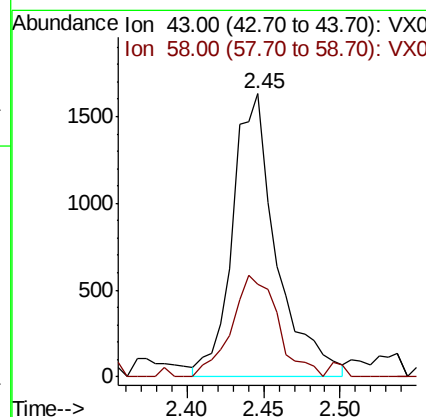
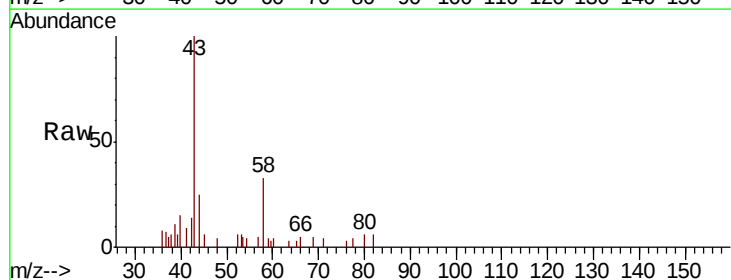
Instrument :
MSVOA_X
ClientSampleId :
OUTFALL001-190716

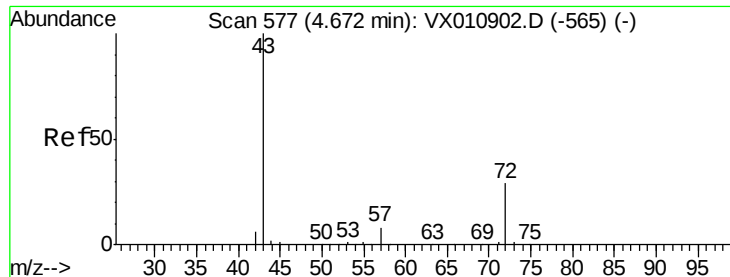
Tot Ion: 59 Resp: 1749
Ion Ratio Lower Upper
59 100
57 9.9 7.9 11.9



#16
Acetone
Concen: 3.072 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX010933.D
Acq: 17 Jul 2019 14:10

Tgt Ion: 43 Resp: 3244
Ion Ratio Lower Upper
43 100
58 33.8 27.7 41.5





#25

2-Butanone

Concen: 0.389 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.02 min

Lab File: VX010933.D

Acq: 17 Jul 2019 14:10

Instrument :

MSVOA_X

ClientSampleId :

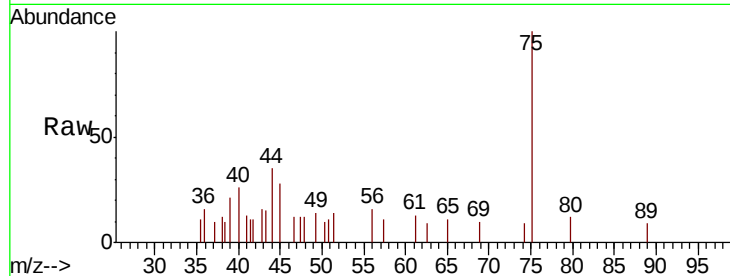
OUTFALL001-190716

Tot Ion: 43 Resp: 589

Ion Ratio Lower Upper

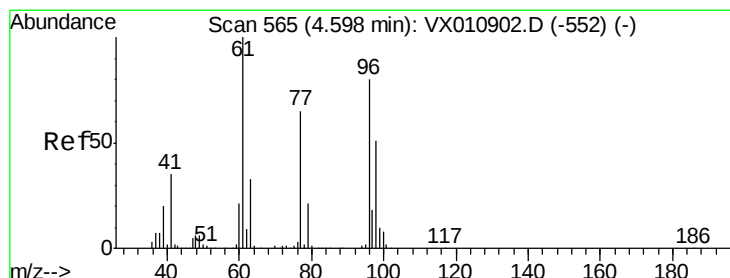
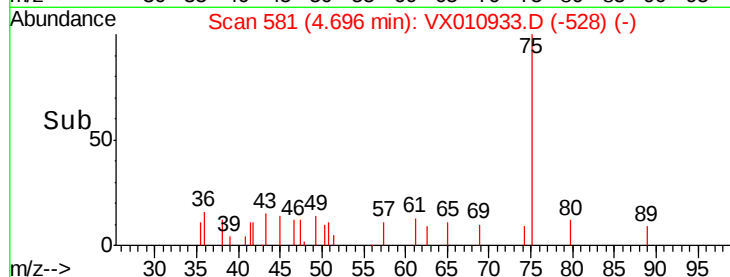
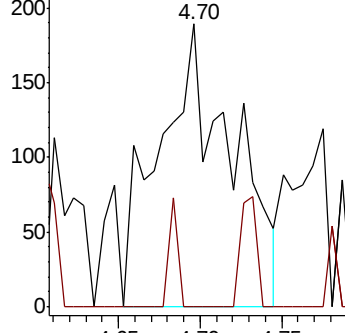
43 100

72 0.0 23.0 34.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 6.112 ug/l

RT: 4.60 min Scan# 566

Delta R.T. 0.01 min

Lab File: VX010933.D

Acq: 17 Jul 2019 14:10

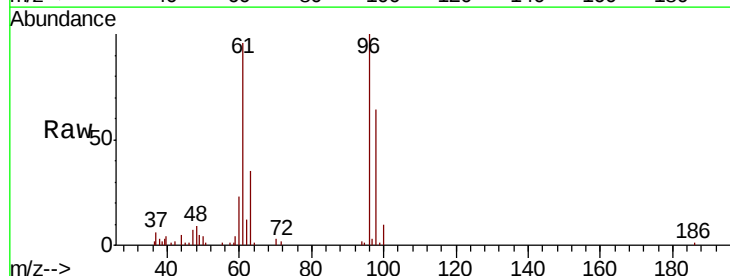
Tgt Ion: 96 Resp: 14691

Ion Ratio Lower Upper

96 100

61 116.7 0.0 269.0

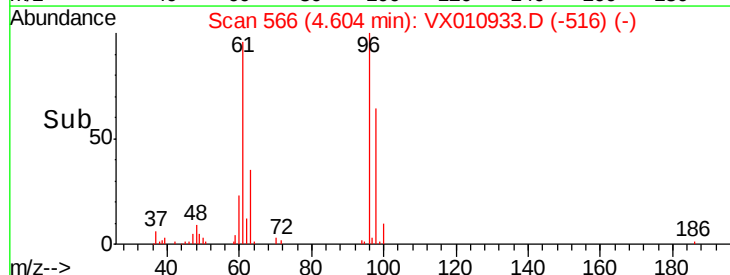
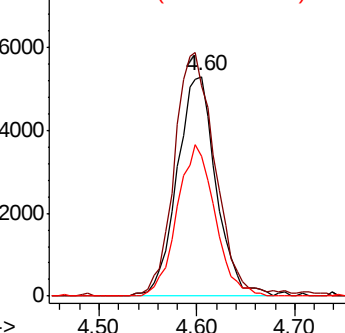
98 66.6 0.0 131.4

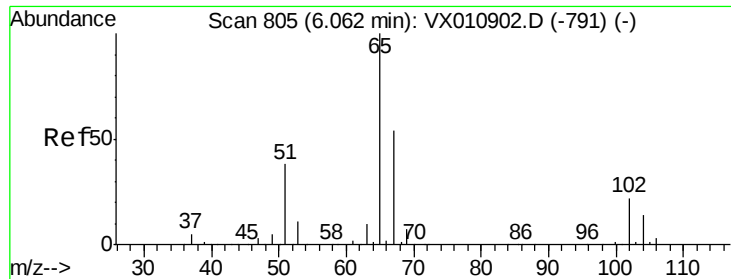


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

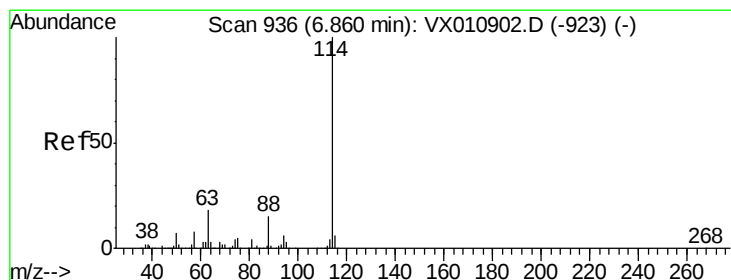
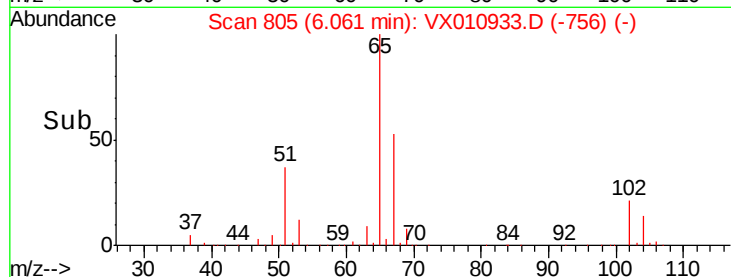
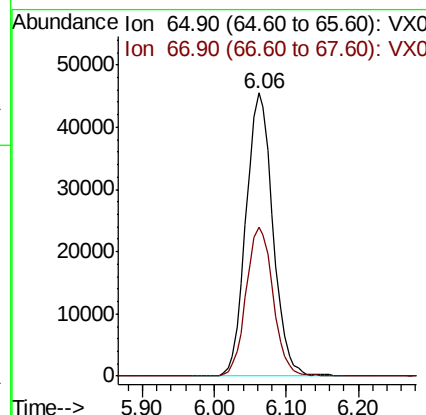
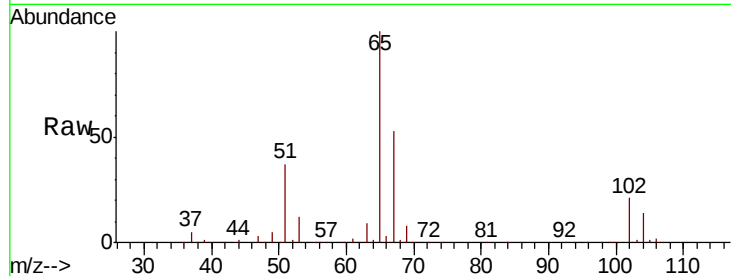




#33
 1,2-Dichloroethane-d4
 Concen: 50.455 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX010933.D
 Acq: 17 Jul 2019 14:10

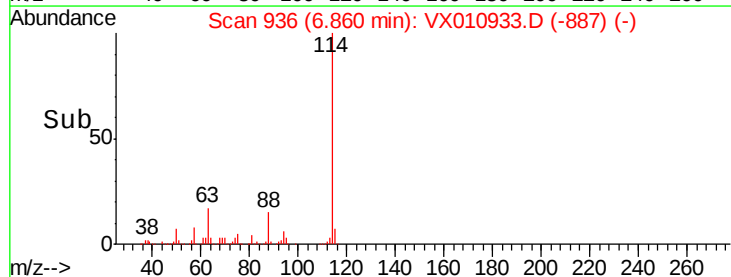
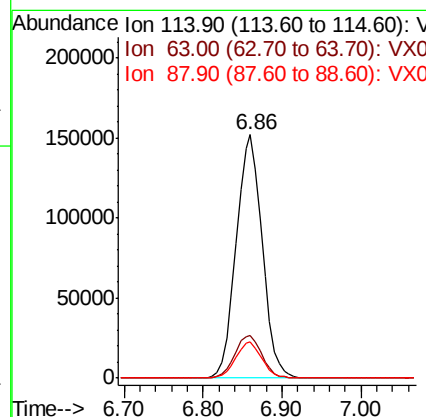
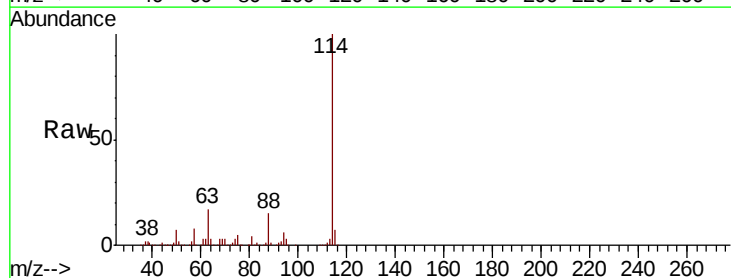
Instrument :
 MSVOA_X
 ClientSampleId :
 OUTFALL001-190716

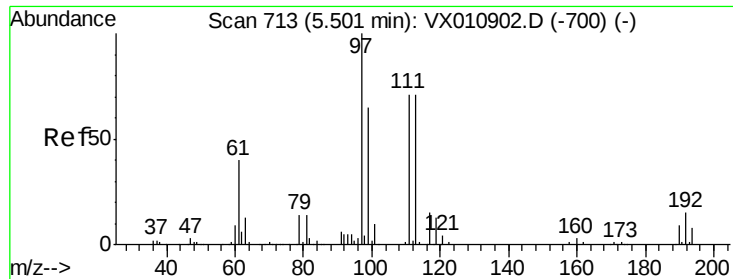
Tot Ion: 65 Resp: 117962
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX010933.D
 Acq: 17 Jul 2019 14:10

Tgt Ion: 114 Resp: 349003
 Ion Ratio Lower Upper
 114 100
 63 17.3 0.0 35.6
 88 14.9 0.0 29.8





#35

Dibromofluoromethane

Concen: 49.471 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.01 min

Lab File: VX010933.D

Acq: 17 Jul 2019 14:10

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-190716

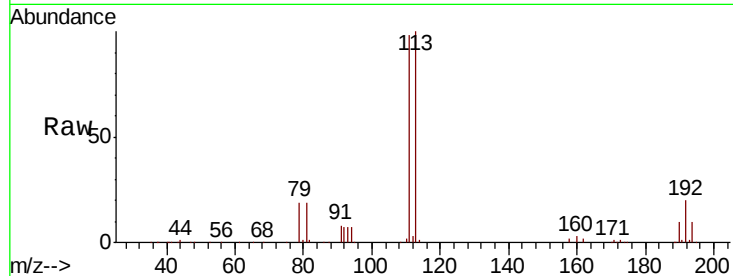
Tot Ion:113 Resp: 109588

Ion Ratio Lower Upper

113 100

111 101.9 82.3 123.5

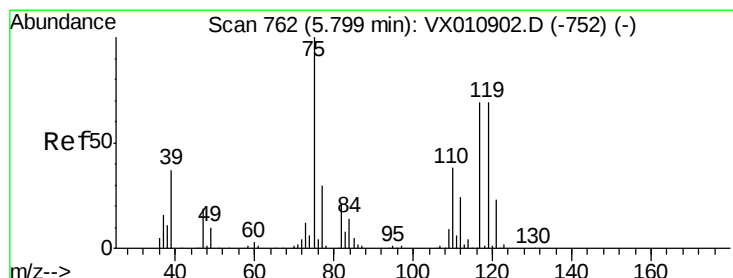
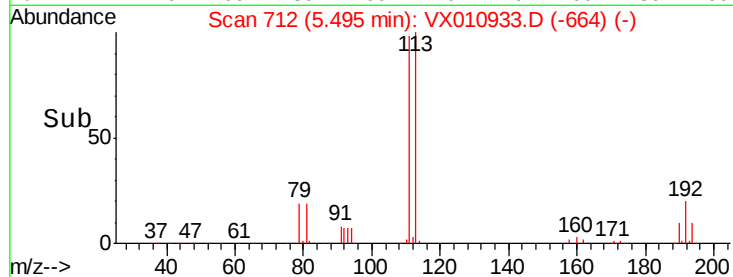
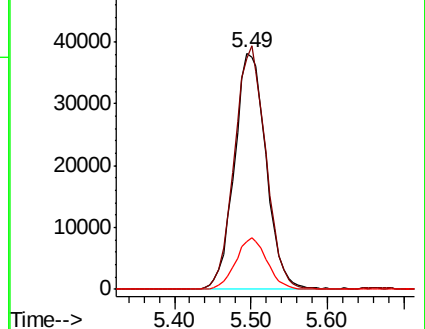
192 21.5 17.4 26.2



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: 5.106 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX010933.D

Acq: 17 Jul 2019 14:10

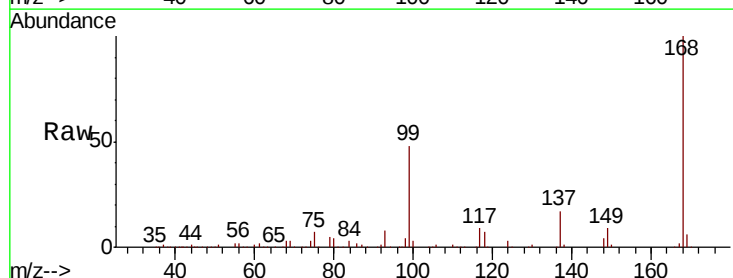
Tgt Ion: 75 Resp: 14637

Ion Ratio Lower Upper

75 100

110 11.7 19.9 59.7#

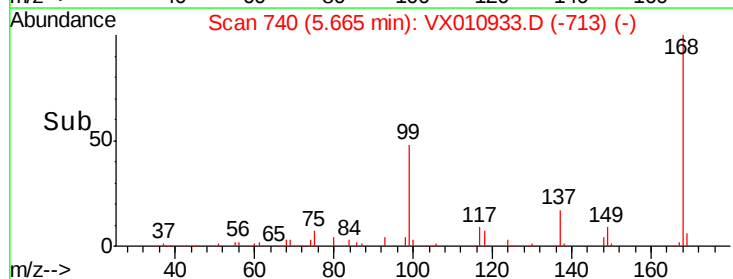
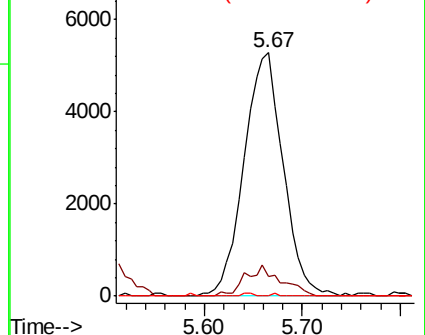
77 0.1 25.0 37.4#

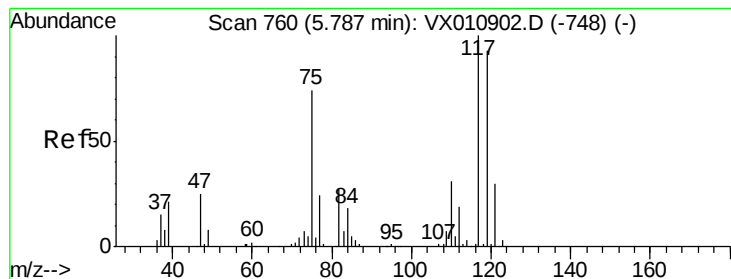


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.812 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX010933.D

Acq: 17 Jul 2019 14:10

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-190716

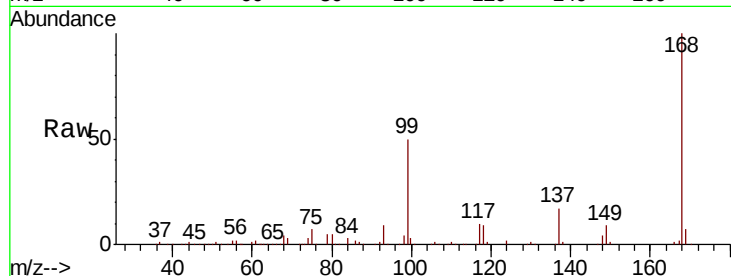
Tot Ion:117 Resp: 20348

Ion Ratio Lower Upper

117 100

119 6.4 74.2 111.2#

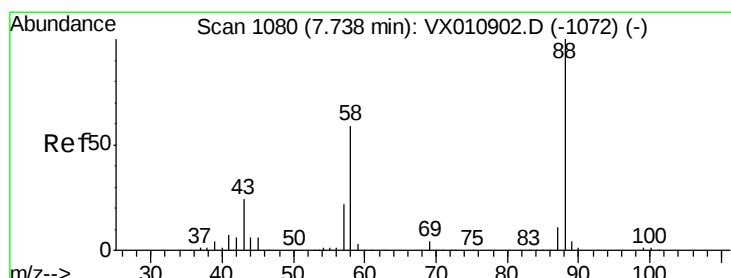
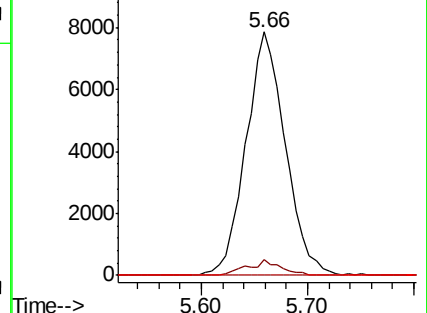
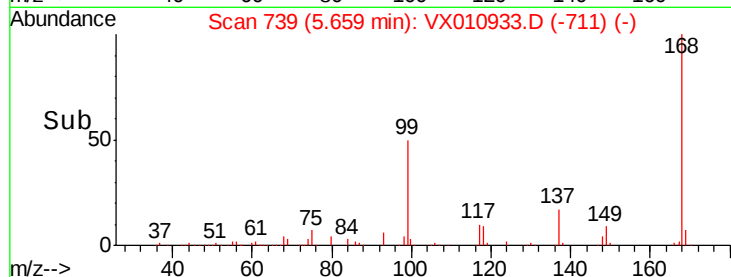
121 0.0 24.2 36.2#



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: 0.395 ug/l

RT: 7.87 min Scan# 1101

Delta R.T. 0.13 min

Lab File: VX010933.D

Acq: 17 Jul 2019 14:10

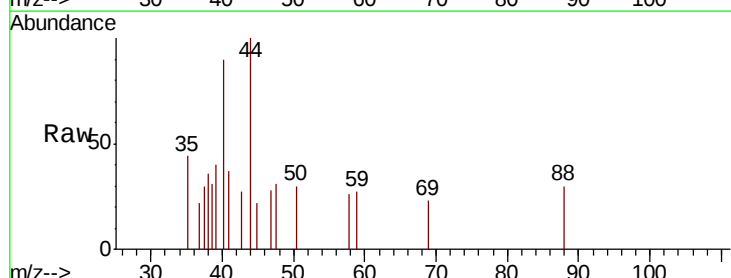
Tgt Ion: 88 Resp: 26

Ion Ratio Lower Upper

88 100

43 750.0 22.9 34.3#

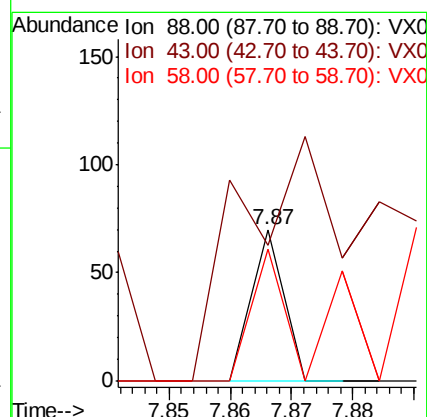
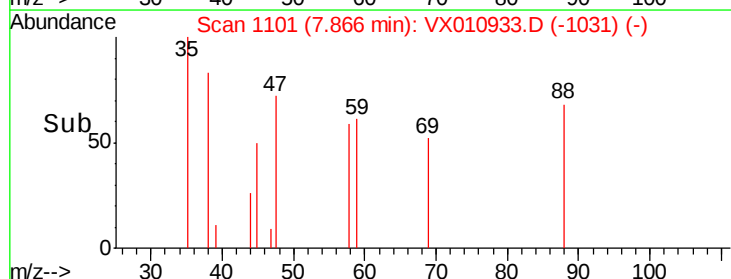
58 84.6 49.8 74.8#

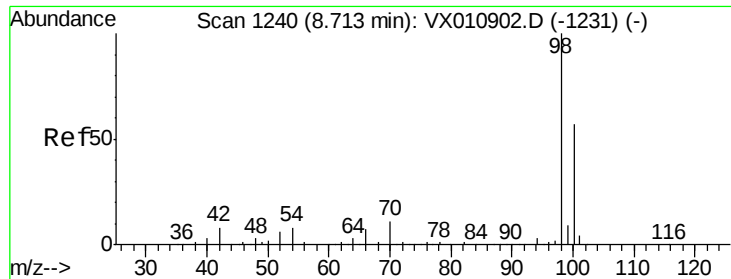


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.490 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX010933.D

Acq: 17 Jul 2019 14:10

Instrument :

MSVOA_X

ClientSampleId :

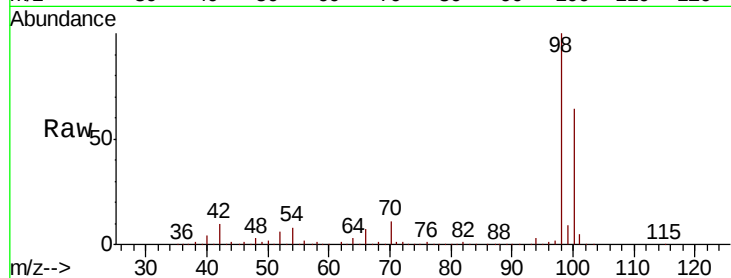
OUTFALL001-190716

Tot Ion: 98 Resp: 419492

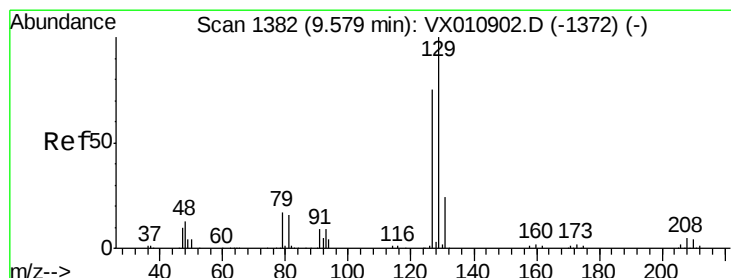
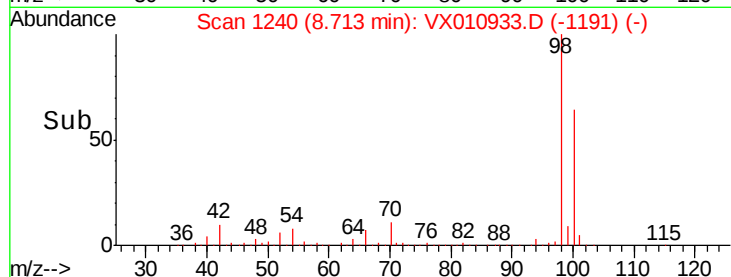
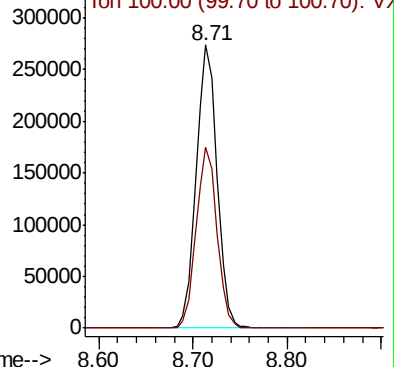
Ion Ratio Lower Upper

98 100

100 63.7 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VX010902.D (-1231) (-)



#60

Dibromochloromethane

Concen: 2.534 ug/l

RT: 9.71 min Scan# 1404

Delta R.T. 0.13 min

Lab File: VX010933.D

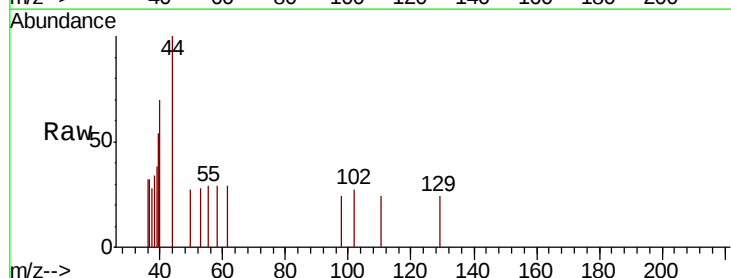
Acq: 17 Jul 2019 14:10

Tgt Ion: 129 Resp: 19

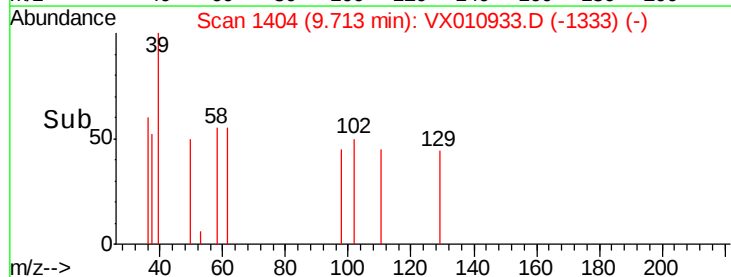
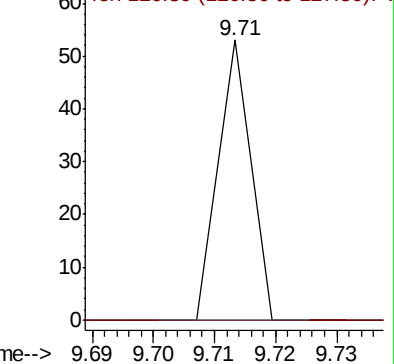
Ion Ratio Lower Upper

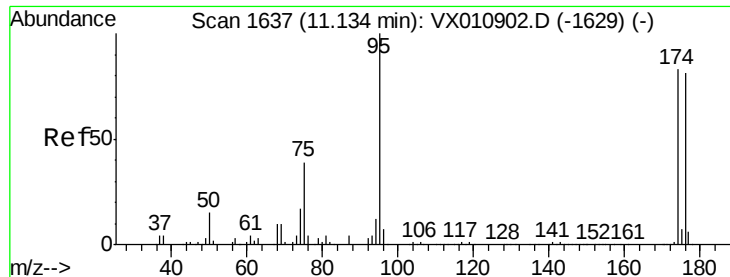
129 100

127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): VX010902.D (-1372) (-)





#62

4-Bromofluorobenzene

Concen: 48.073 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX010933.D

Acq: 17 Jul 2019 14:10

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-190716

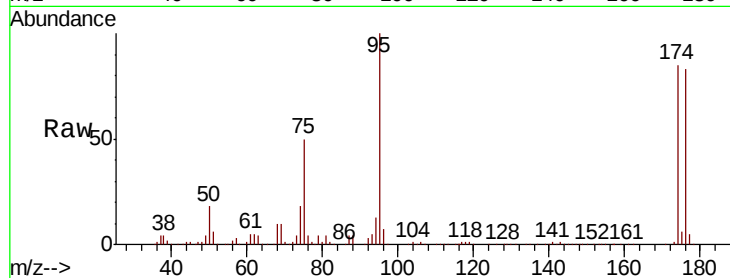
Tot Ion: 95 Resp: 146810

Ion Ratio Lower Upper

95 100

174 91.8 0.0 180.6

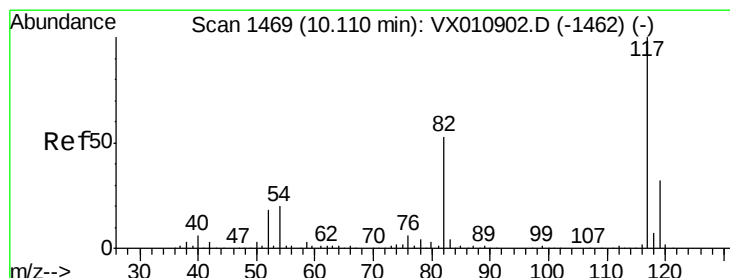
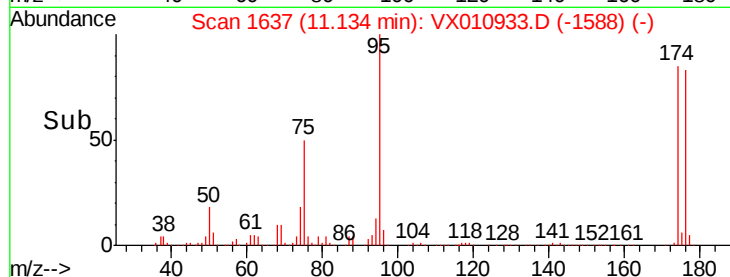
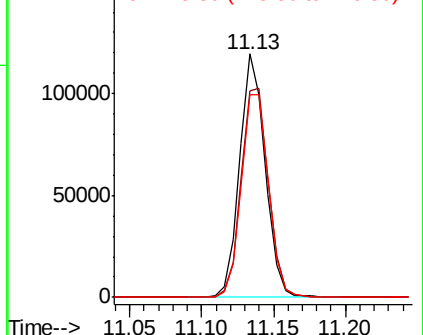
176 89.3 0.0 173.8



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: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX010933.D

Acq: 17 Jul 2019 14:10

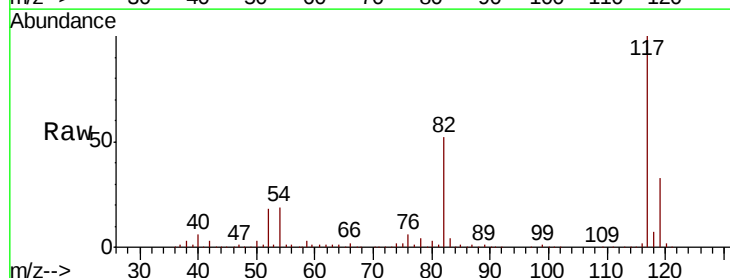
Tgt Ion: 117 Resp: 324564

Ion Ratio Lower Upper

117 100

82 51.7 42.6 63.8

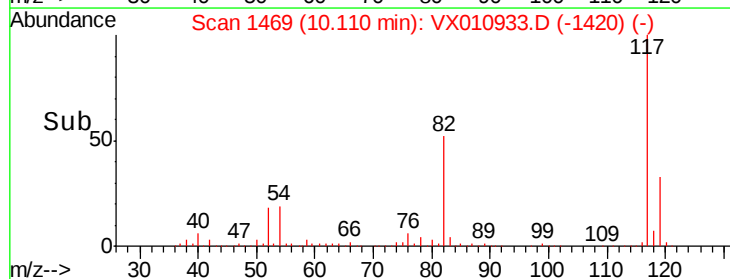
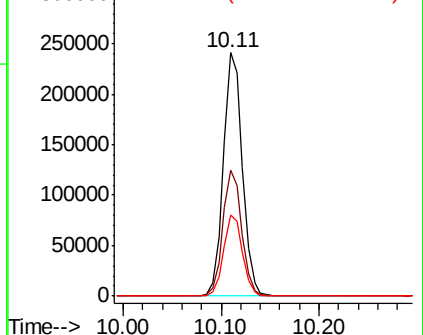
119 33.2 25.9 38.9

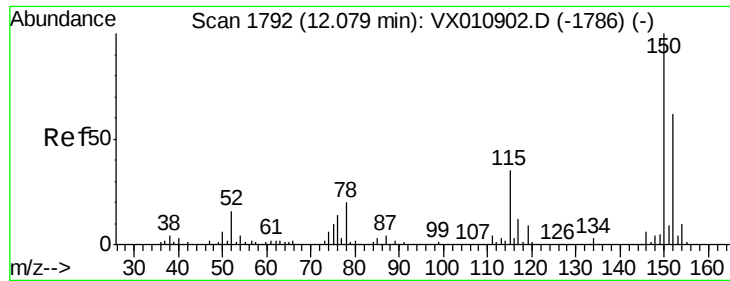


Abundance Ion 116.90 (116.60 to 117.60): V

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: VX010933.D

Acq: 17 Jul 2019 14:10

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-190716

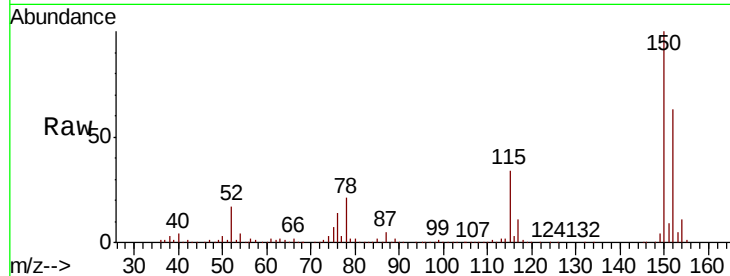
Tot Ion:152 Resp: 149898

Ion Ratio Lower Upper

152 100

115 55.9 39.7 119.1

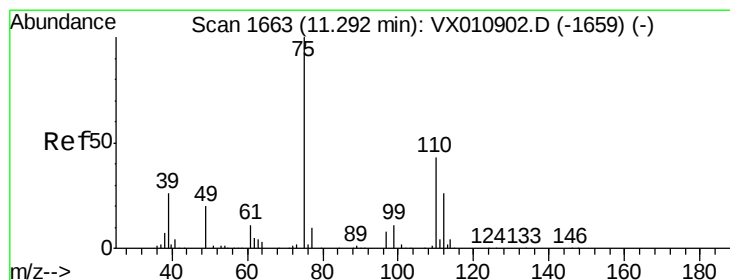
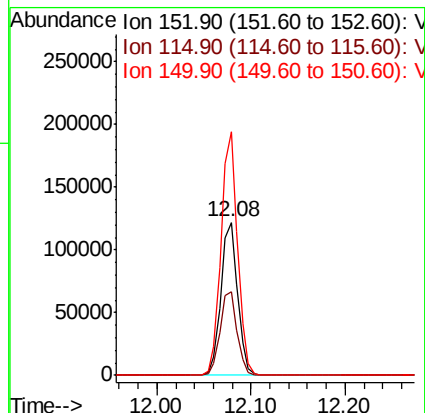
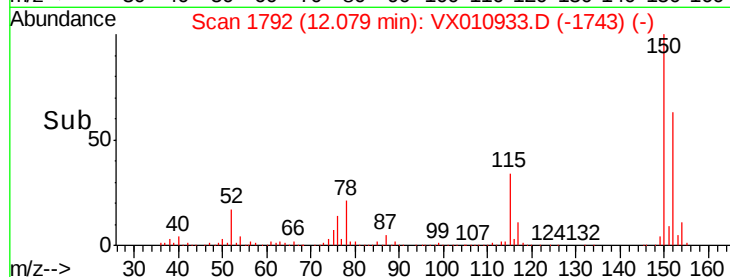
150 157.8 0.0 345.6



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: 27.046 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010933.D

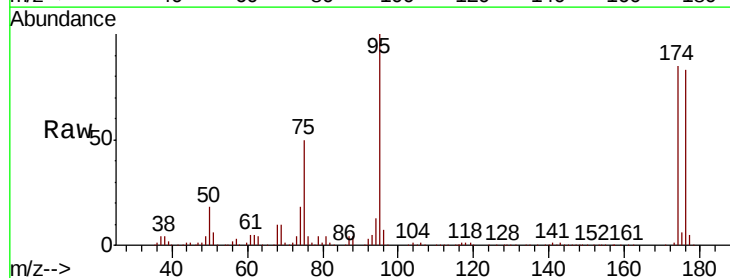
Acq: 17 Jul 2019 14:10

Tgt Ion: 75 Resp: 73160

Ion Ratio Lower Upper

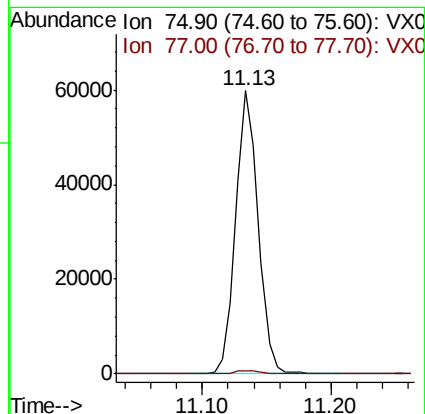
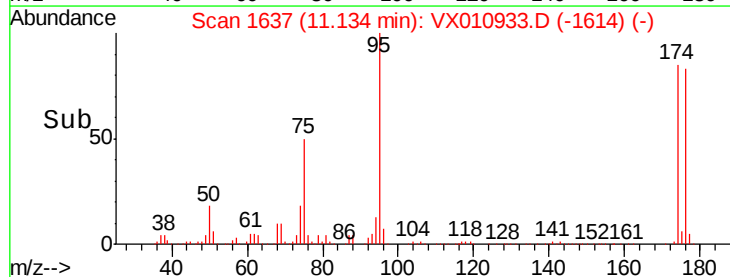
75 100

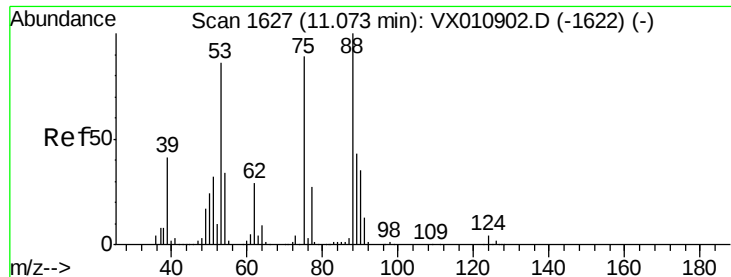
77 1.3 21.3 64.0#



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: 67.049 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010933.D

Acq: 17 Jul 2019 14:10

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-190716

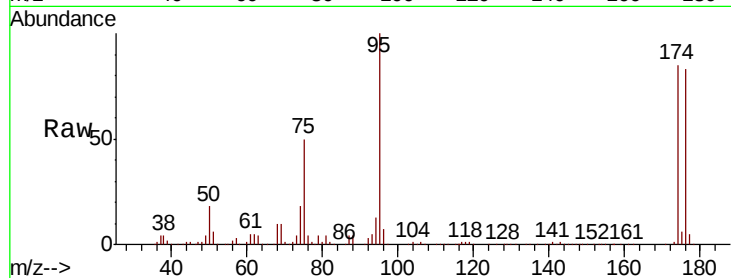
Tot Ion: 75 Resp: 73160

Ion Ratio Lower Upper

75 100

53 0.0 76.7 115.1#

89 0.0 38.5 57.7#



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

