

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122018\
 Data File : VX006680.D
 Acq On : 20 Dec 2018 17:07
 Operator : JC/MD
 Sample : J6484-15
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 21 03:32:48 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

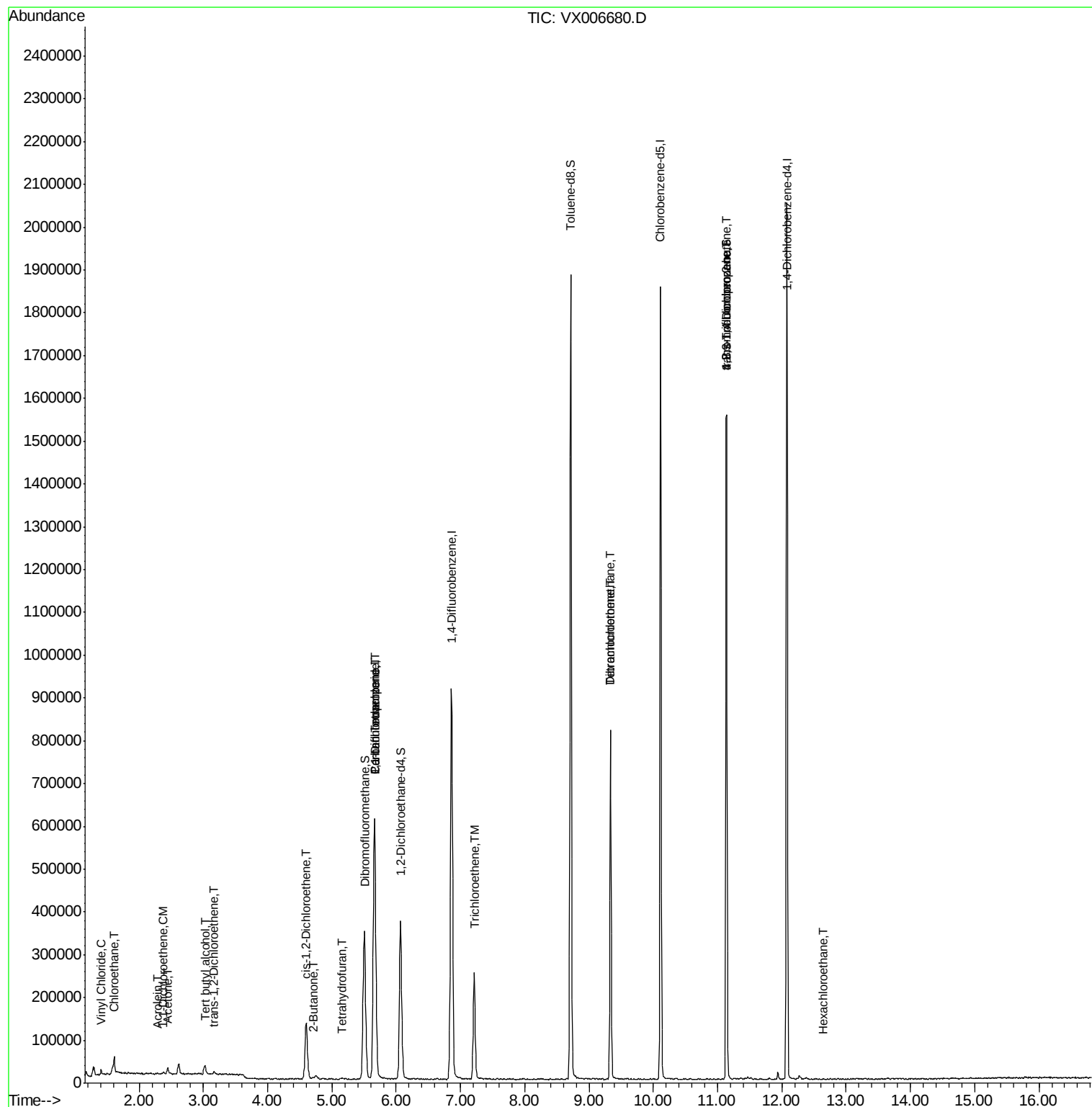
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	622556	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	993166	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	908521	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	438630	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	347266	51.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.52%	
35) Dibromofluoromethane	5.51	113	294726	46.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.86%	
50) Toluene-d8	8.71	98	1179338	49.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.62%	
62) 4-Bromofluorobenzene	11.13	95	425698	49.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.18%	
Target Compounds				Qvalue		
4) Vinyl Chloride	1.41	62	6188	0.966	ug/l	94
5) Bromomethane	1.64	94	522	Below Cal	#	32
6) Chloroethane	1.61	64	6373	1.436	ug/l #	64
11) Tert butyl alcohol	3.03	59	13715	9.159	ug/l #	78
12) 1,1-Dichloroethene	2.38	96	1143	0.205	ug/l #	70
13) Acrolein	2.29	56	267	0.264	ug/l #	65
16) Acetone	2.45	43	15714	5.098	ug/l	90
21) trans-1,2-Dichloroethene	3.17	96	3059	0.496	ug/l #	84
25) 2-Butanone	4.71	43	2654	0.612	ug/l #	73
27) cis-1,2-Dichloroethene	4.60	96	91589	13.469	ug/l	91
28) Bromochloromethane	5.03	49	507	Below Cal	#	16
29) Tetrahydrofuran	5.17	42	2294	0.803	ug/l #	61
36) 1,1-Dichloropropene	5.66	75	40906	4.973	ug/l #	39
38) Carbon Tetrachloride	5.67	117	59892	7.492	ug/l #	14
44) Trichloroethene	7.21	130	103262	13.645	ug/l	100
49) 1,4-Dioxane	7.75	88	134	Below Cal	#	1
60) Dibromochloromethane	9.34	129	153132	23.439	ug/l #	10
64) Tetrachloroethene	9.34	164	165169	22.959	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	200170	24.556	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	200170	72.637	ug/l #	10
90) Hexachloroethane	12.64	117	52	3.305	ug/l	71

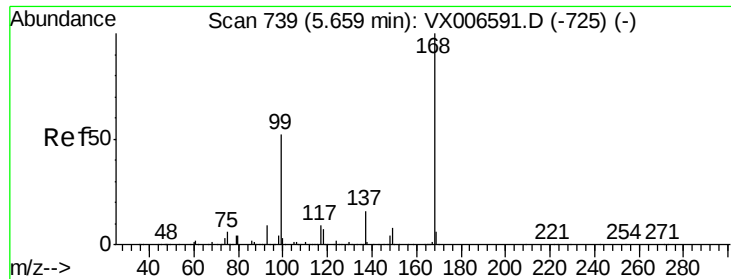
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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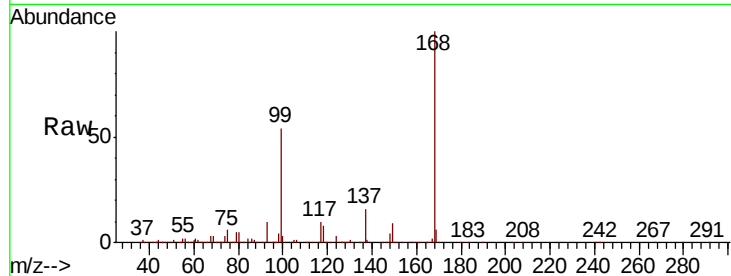


#1

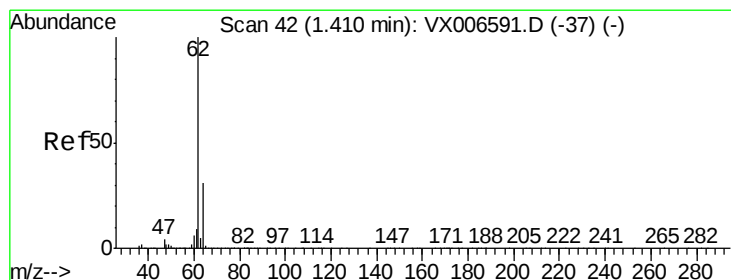
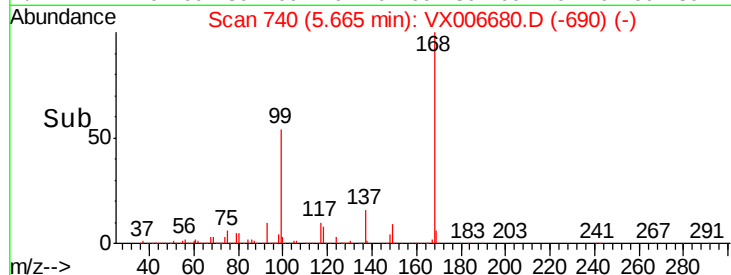
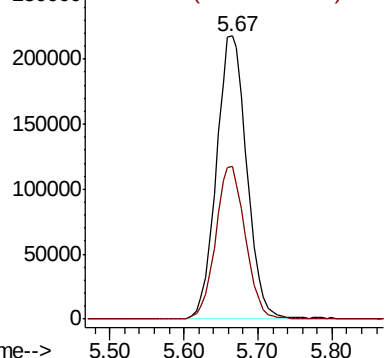
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. 0.01 min
 Lab File: VX006680.D
 Acq: 20 Dec 2018 17:07

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:168 Resp: 622556
 Ion Ratio Lower Upper
 168 100
 99 54.2 41.8 62.8



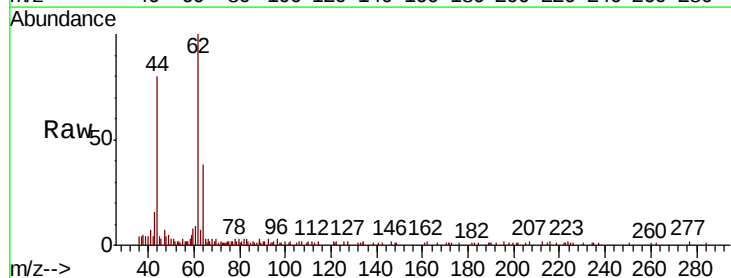
Abundance Ion 167.90 (167.60 to 168.60): VX006680.D (-690) (-)
 Ion 98.90 (98.60 to 99.60): VX006680.D (-690) (-)



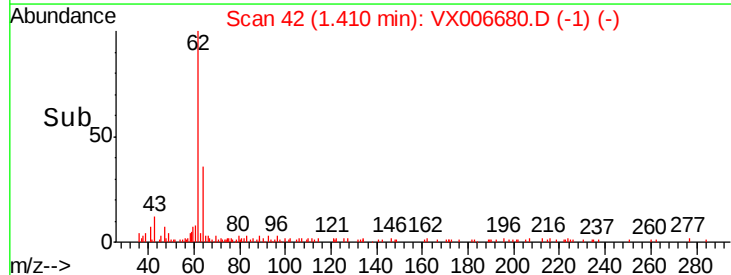
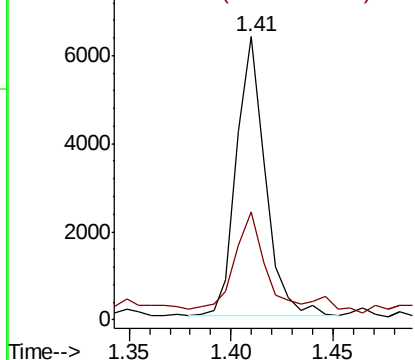
#4

Vinyl Chloride
 Concen: 0.966 ug/l
 RT: 1.41 min Scan# 42
 Delta R.T. -0.00 min
 Lab File: VX006680.D
 Acq: 20 Dec 2018 17:07

Tgt Ion: 62 Resp: 6188
 Ion Ratio Lower Upper
 62 100
 64 35.0 25.1 37.7



Abundance Ion 61.90 (61.60 to 62.60): VX006680.D (-1) (-)
 Ion 63.90 (63.60 to 64.60): VX006680.D (-1) (-)





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX006680.D

Acq: 20 Dec 2018 17:07

Instrument :

MSVOA_X

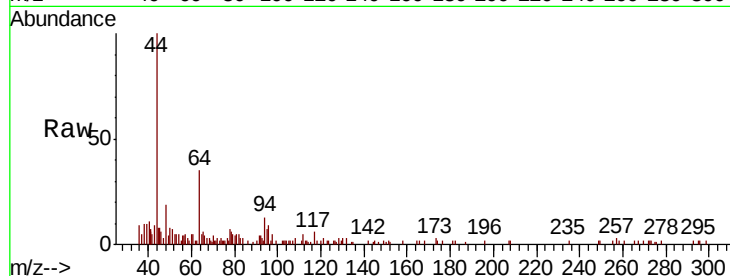
ClientSampleId :

Tot Ion: 94 Resp: 522

Ion Ratio Lower Upper

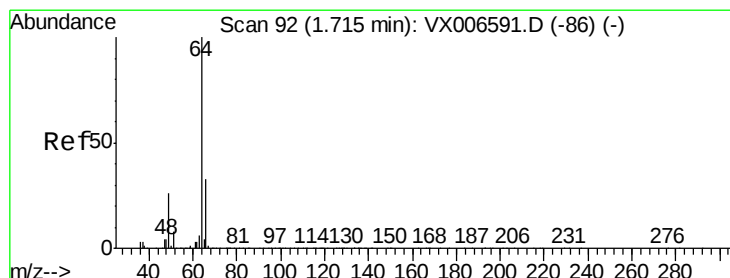
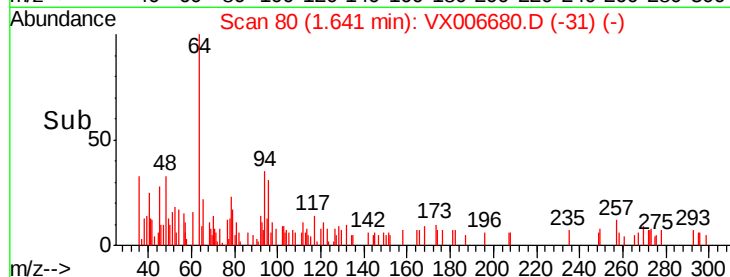
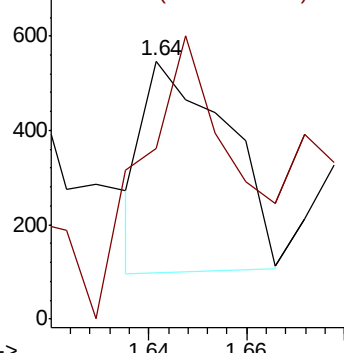
94 100

96 27.4 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 1.436 ug/l

RT: 1.61 min Scan# 75

Delta R.T. -0.10 min

Lab File: VX006680.D

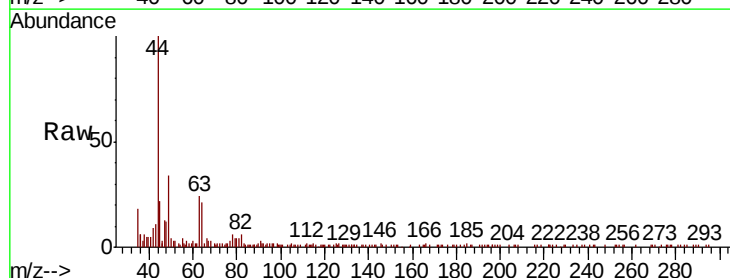
Acq: 20 Dec 2018 17:07

Tgt Ion: 64 Resp: 6373

Ion Ratio Lower Upper

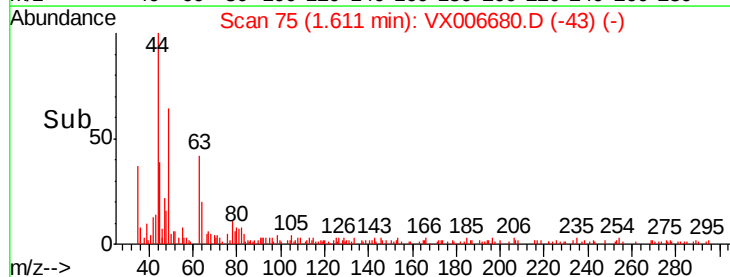
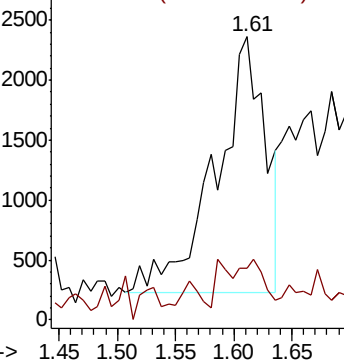
64 100

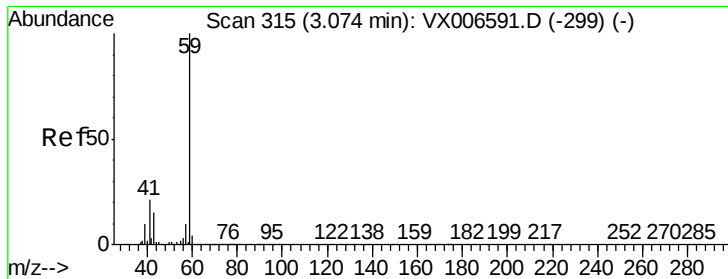
66 12.6 26.4 39.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

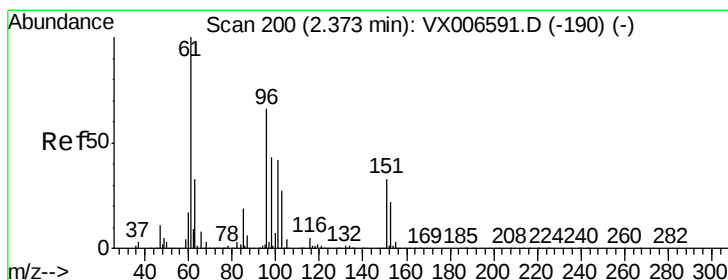
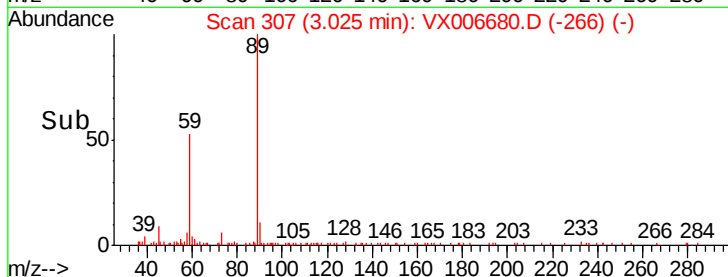
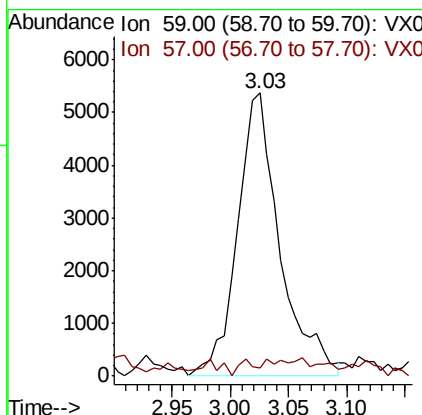
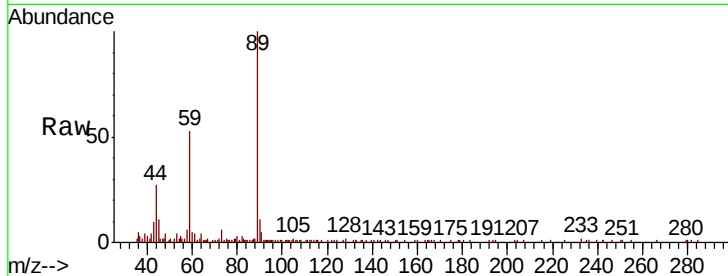




#11
Tert butyl alcohol
Concen: 9.159 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.05 min
Lab File: VX006680.D
Acq: 20 Dec 2018 17:07

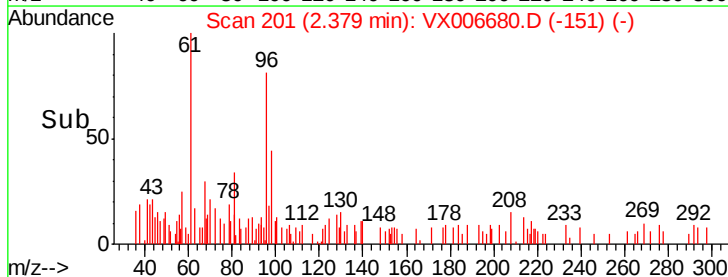
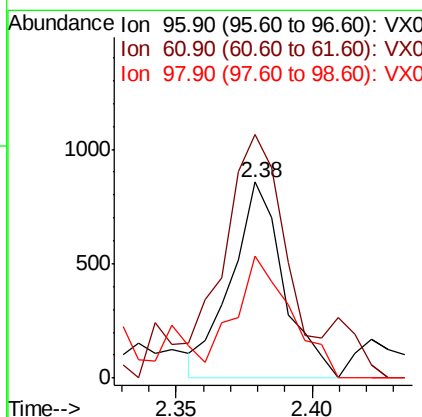
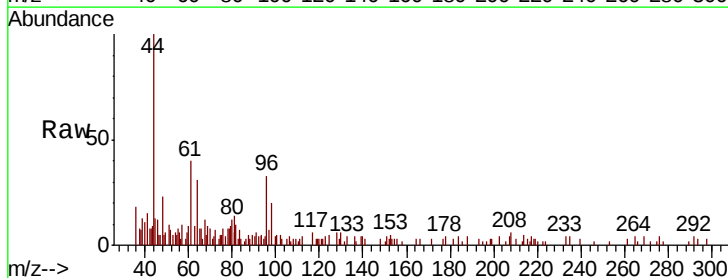
Instrument :
MSVOA_X
ClientSampleId :

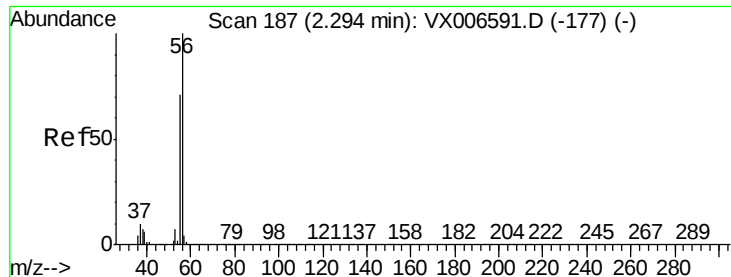
Tot Ion: 59 Resp: 13715
Ion Ratio Lower Upper
59 100
57 2.4 8.5 12.7#



#12
1,1-Dichloroethene
Concen: 0.205 ug/l
RT: 2.38 min Scan# 201
Delta R.T. 0.01 min
Lab File: VX006680.D
Acq: 20 Dec 2018 17:07

Tgt Ion: 96 Resp: 1143
Ion Ratio Lower Upper
96 100
61 106.5 121.4 182.2#
98 51.2 51.9 77.9#





#13

Acrolein

Concen: 0.264 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX006680.D

Acq: 20 Dec 2018 17:07

Instrument :

MSVOA_X

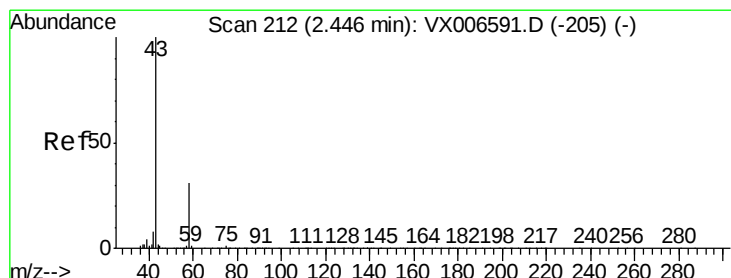
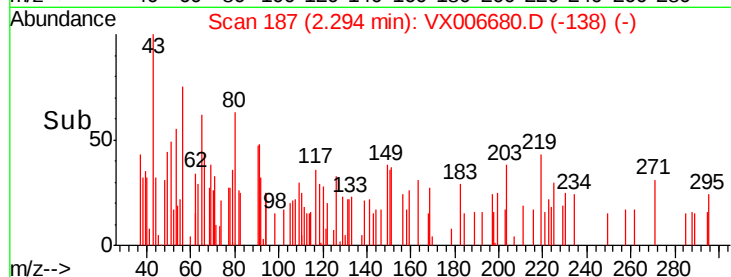
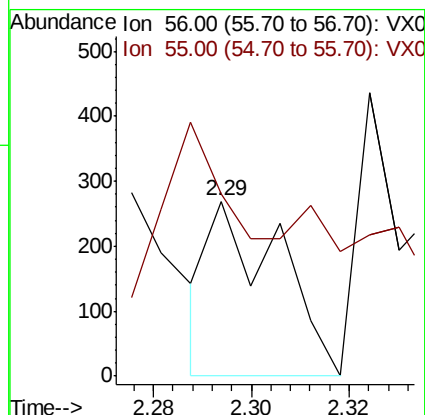
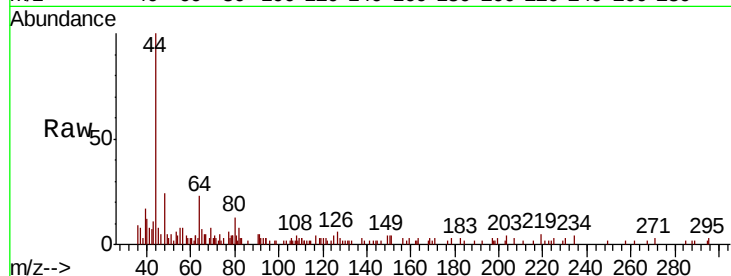
ClientSampleId :

Tot Ion: 56 Resp: 267

Ion Ratio Lower Upper

56 100

55 102.2 58.2 87.4#



#16

Acetone

Concen: 5.098 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX006680.D

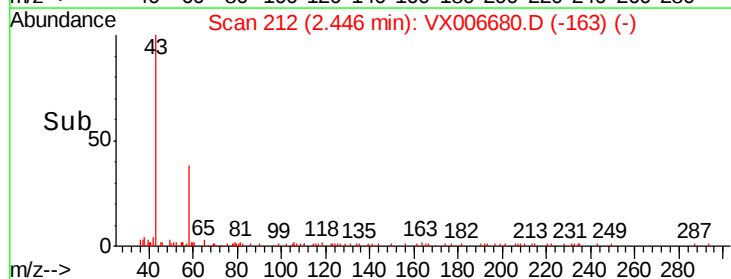
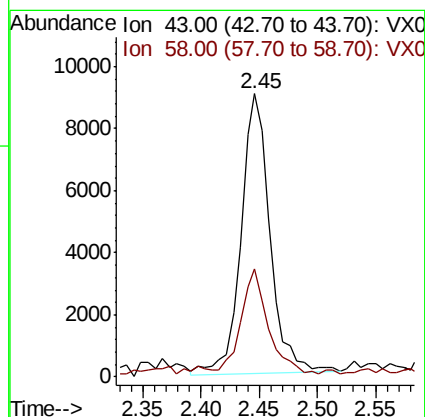
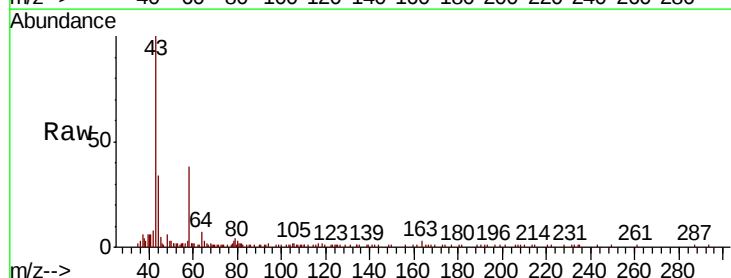
Acq: 20 Dec 2018 17:07

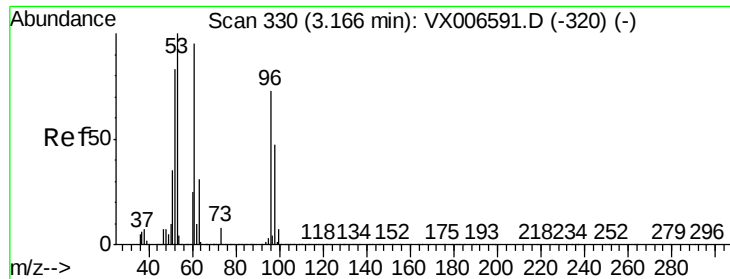
Tgt Ion: 43 Resp: 15714

Ion Ratio Lower Upper

43 100

58 36.8 25.0 37.6





#21

trans-1,2-Dichloroethene

Concen: 0.496 ug/l

RT: 3.17 min Scan# 330

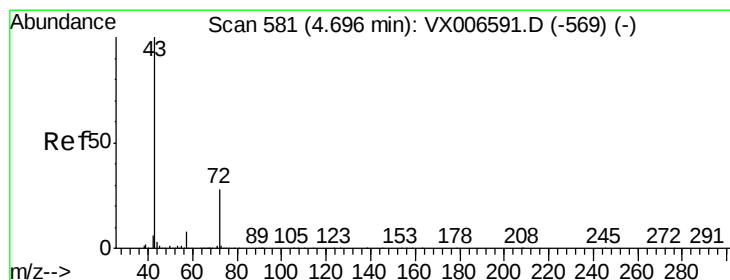
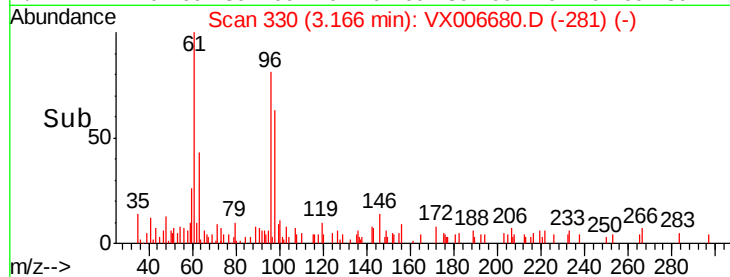
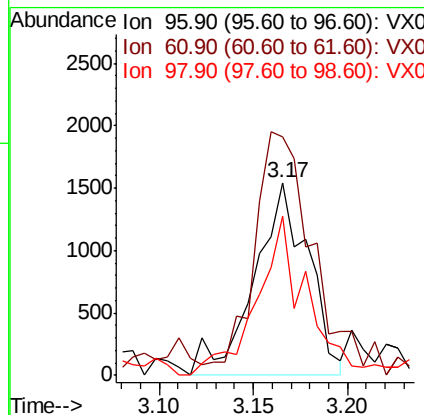
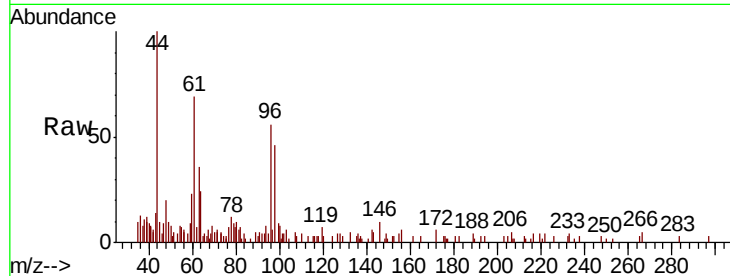
Delta R.T. -0.00 min

Lab File: VX006680.D

Acq: 20 Dec 2018 17:07

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 96 Resp: 3059
Ion Ratio Lower Upper
96 100
61 114.9 103.7 155.5
98 82.1 51.0 76.6#



#25

2-Butanone

Concen: 0.612 ug/l

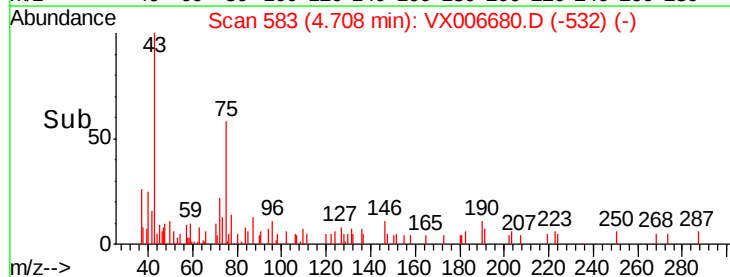
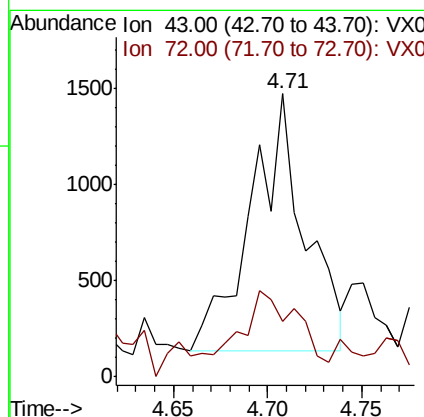
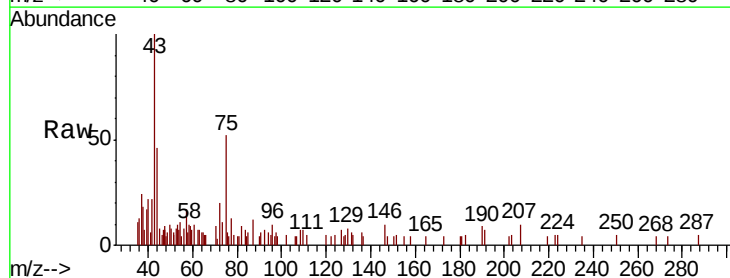
RT: 4.71 min Scan# 583

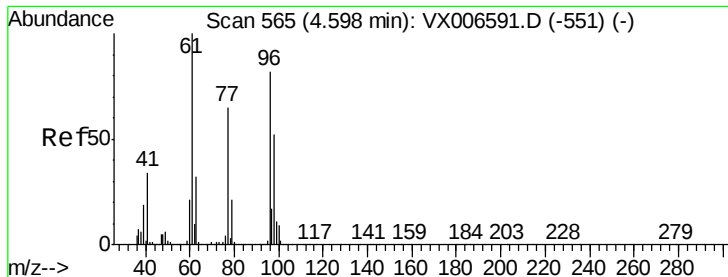
Delta R.T. 0.01 min

Lab File: VX006680.D

Acq: 20 Dec 2018 17:07

Tgt Ion: 43 Resp: 2654
Ion Ratio Lower Upper
43 100
72 13.6 22.4 33.6#



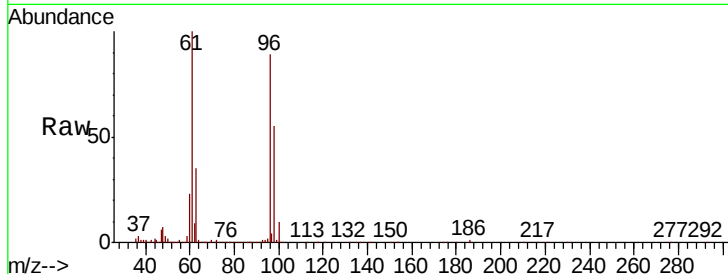


#27

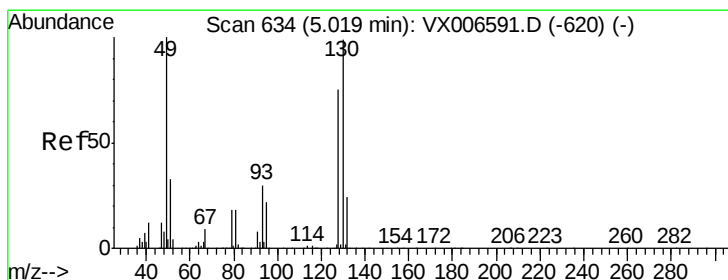
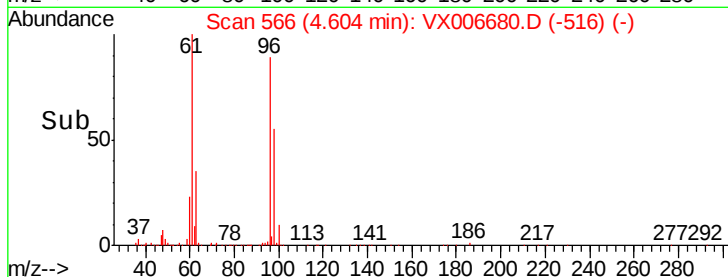
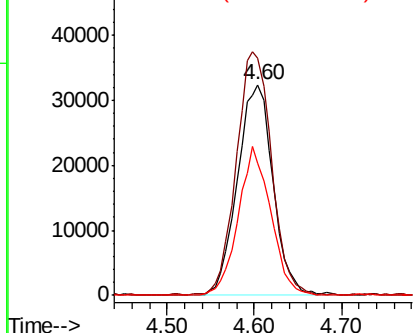
cis-1,2-Dichloroethene
 Concen: 13.469 ug/l
 RT: 4.60 min Scan# 566
 Delta R.T. 0.01 min
 Lab File: VX006680.D
 Acq: 20 Dec 2018 17:07

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
96	100		
61	114.2	0.0	258.6
98	64.6	0.0	132.0



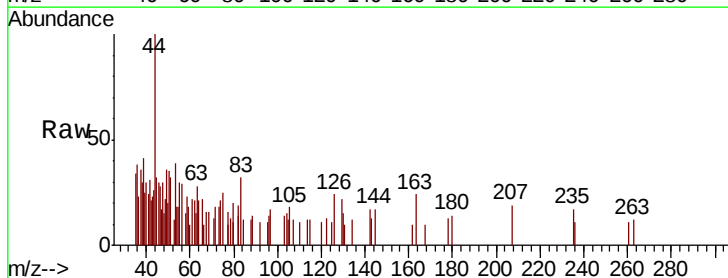
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



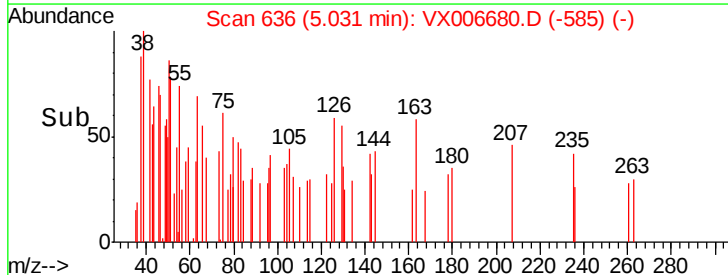
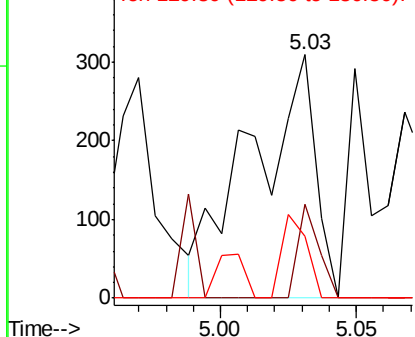
#28

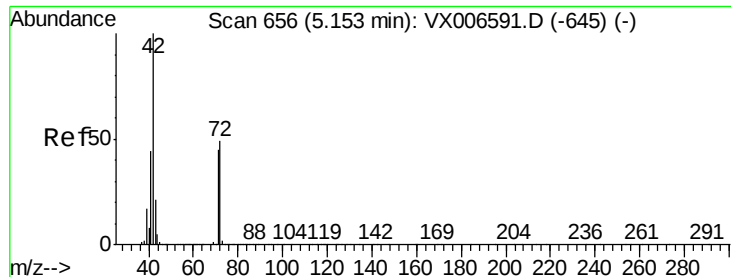
Bromochloromethane
 Concen: Below Cal
 RT: 5.03 min Scan# 636
 Delta R.T. 0.01 min
 Lab File: VX006680.D
 Acq: 20 Dec 2018 17:07

Tgt Ion	Ratio	Lower	Upper
49	100		
129	12.4	0.0	5.4#
130	13.4	77.7	116.5#



Abundance Ion 48.90 (48.60 to 49.60): VX0
 Ion 128.80 (128.50 to 129.50): V
 Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 0.803 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX006680.D

Acq: 20 Dec 2018 17:07

Instrument :

MSVOA_X

ClientSampled :

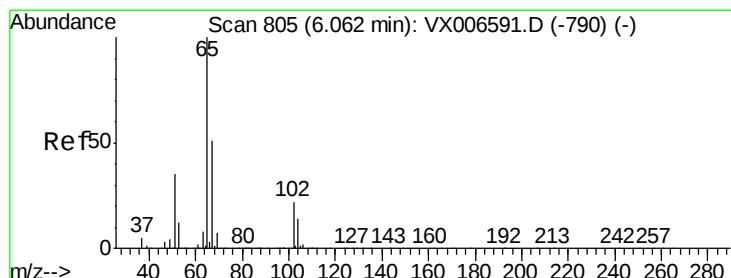
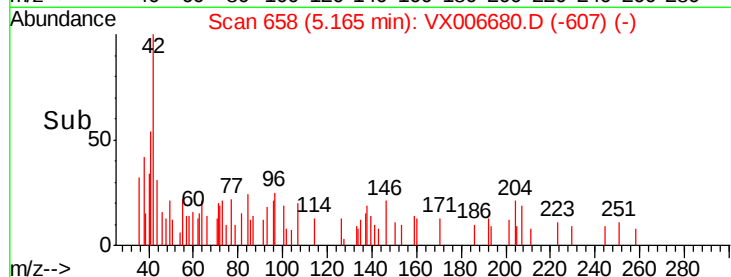
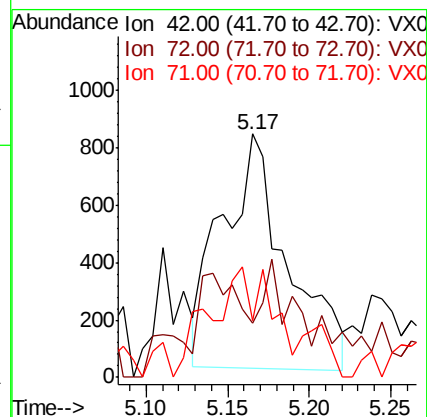
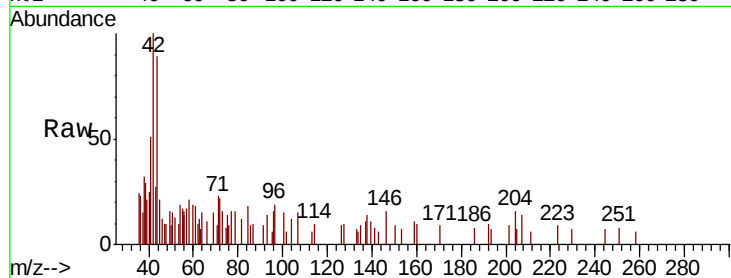
Tot Ion: 42 Resp: 2294

Ion Ratio Lower Upper

42 100

72 13.3 38.9 58.3#

71 28.6 36.2 54.4#



#33

1,2-Dichloroethane-d4

Concen: 51.756 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006680.D

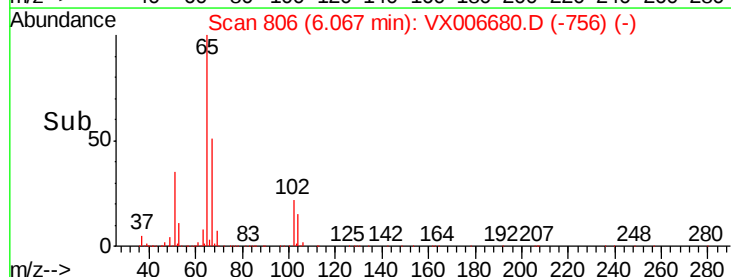
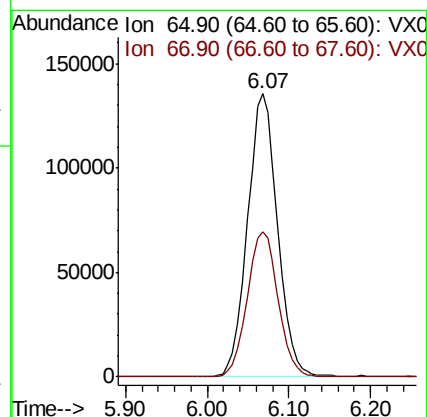
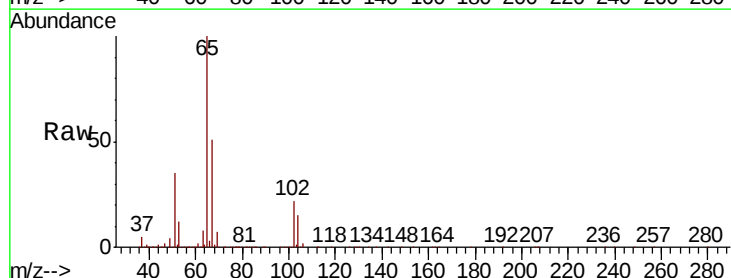
Acq: 20 Dec 2018 17:07

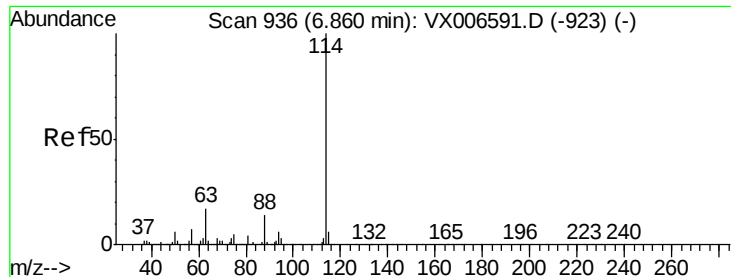
Tgt Ion: 65 Resp: 347266

Ion Ratio Lower Upper

65 100

67 52.4 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006680.D

Acq: 20 Dec 2018 17:07

Instrument :

MSVOA_X

ClientSampled :

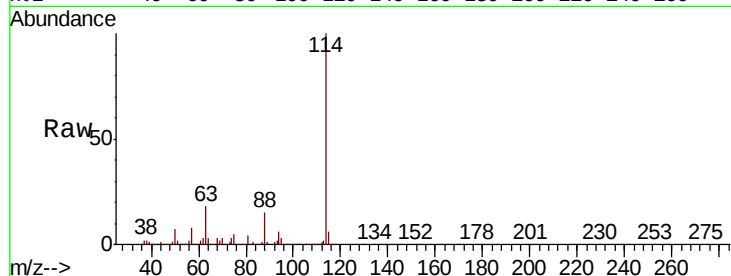
Tot Ion:114 Resp: 993166

Ion Ratio Lower Upper

114 100

63 17.7 0.0 34.8

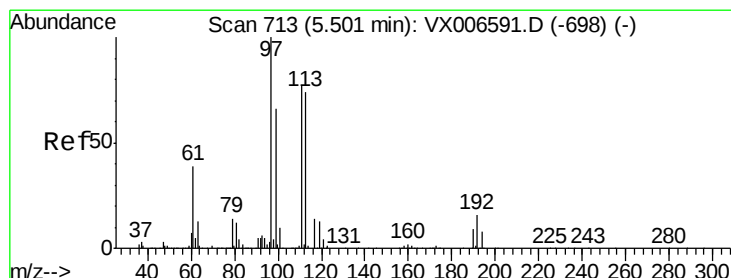
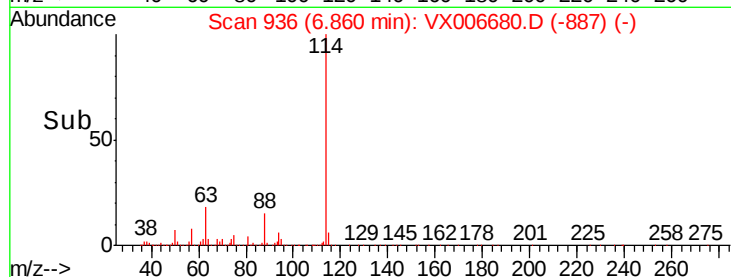
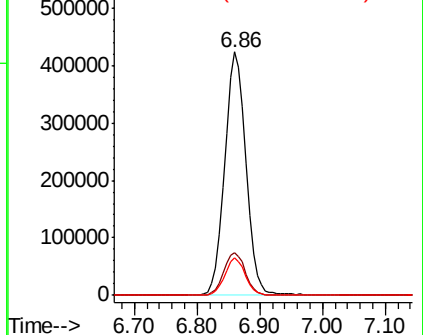
88 15.3 0.0 28.8



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



#35

Dibromofluoromethane

Concen: 46.926 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006680.D

Acq: 20 Dec 2018 17:07

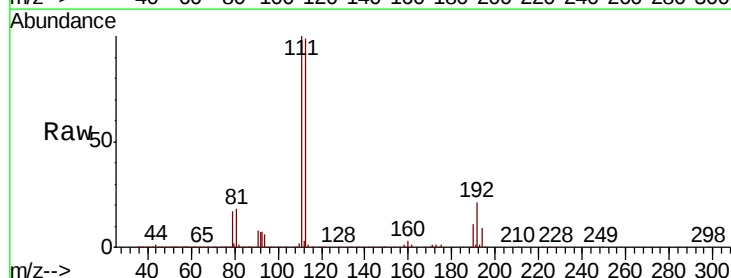
Tgt Ion:113 Resp: 294726

Ion Ratio Lower Upper

113 100

111 101.3 81.6 122.4

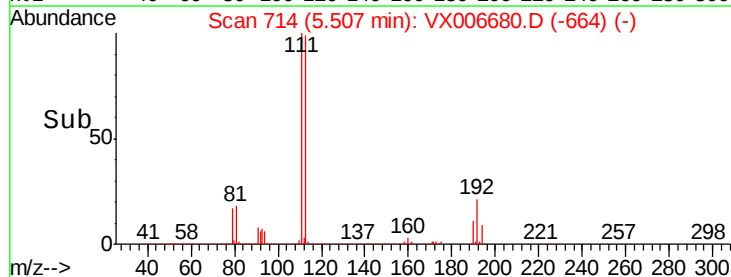
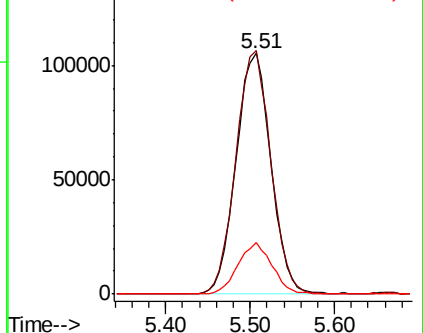
192 20.9 16.7 25.1

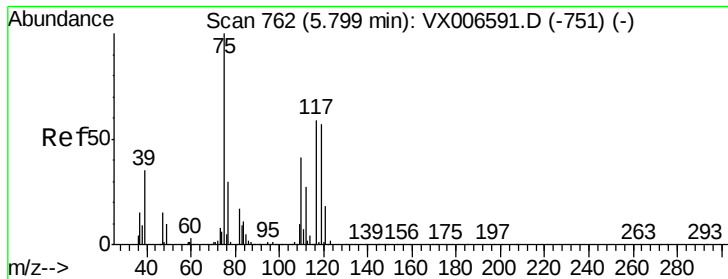


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.973 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX006680.D

Acq: 20 Dec 2018 17:07

Instrument :

MSVOA_X

ClientSampleId :

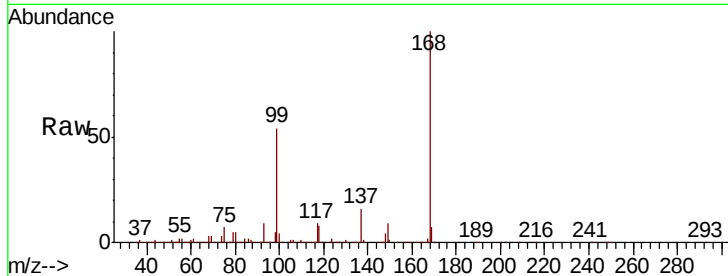
Tot Ion: 75 Resp: 40906

Ion Ratio Lower Upper

75 100

110 0.0 20.2 60.5#

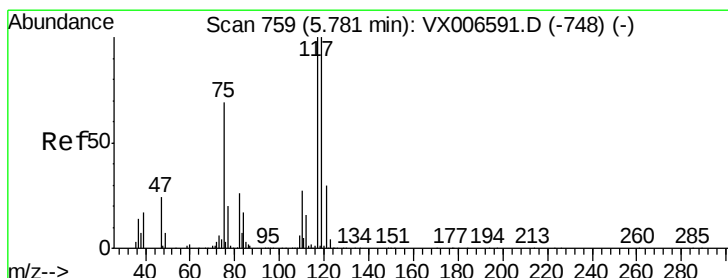
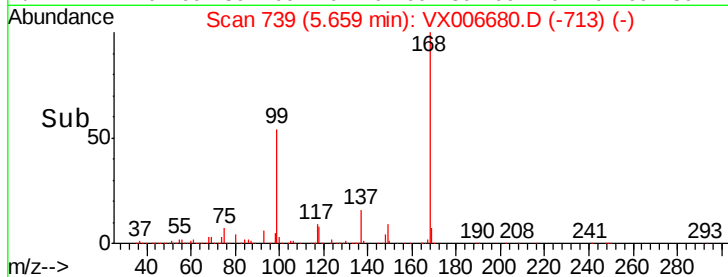
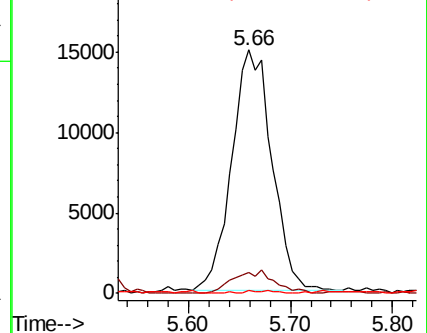
77 0.5 24.8 37.2#



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



#38

Carbon Tetrachloride

Concen: 7.492 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006680.D

Acq: 20 Dec 2018 17:07

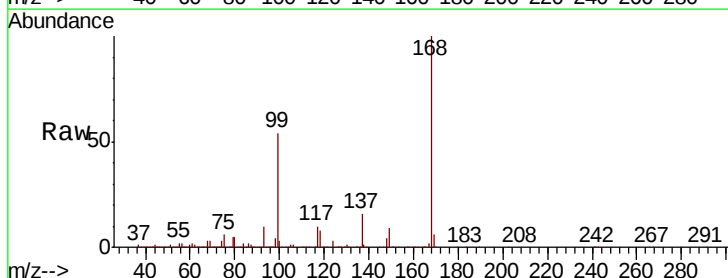
Tgt Ion: 117 Resp: 59892

Ion Ratio Lower Upper

117 100

119 4.8 79.4 119.2#

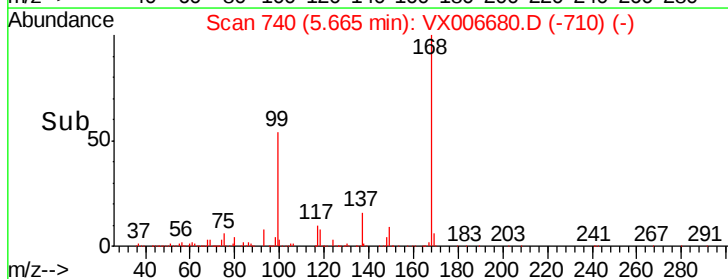
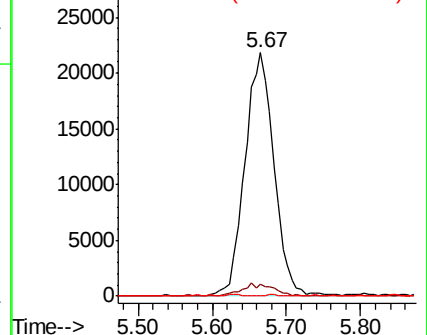
121 0.2 24.0 36.0#

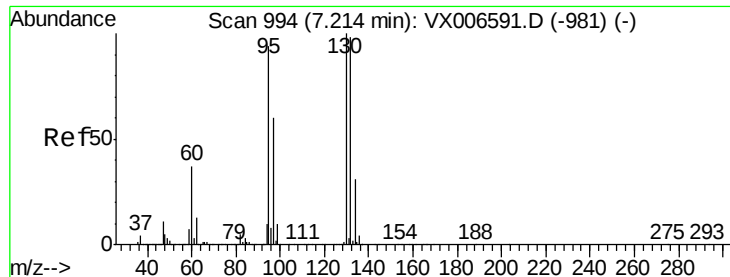


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 13.645 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX006680.D

Acq: 20 Dec 2018 17:07

Instrument :

MSVOA_X

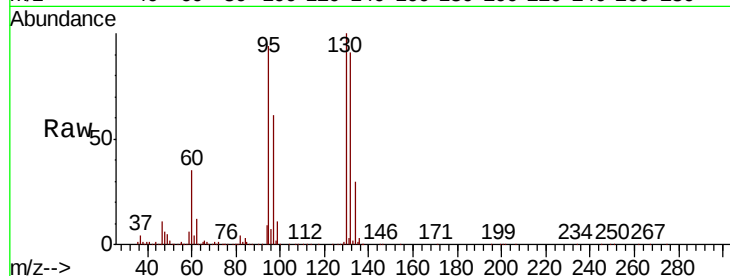
ClientSampleId :

Tot Ion:130 Resp: 103262

Ion Ratio Lower Upper

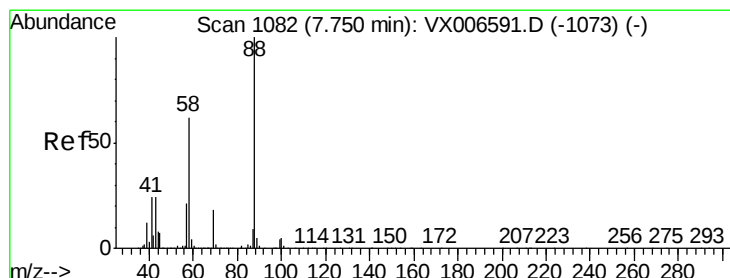
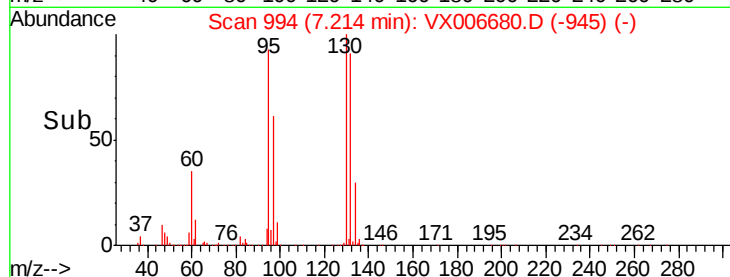
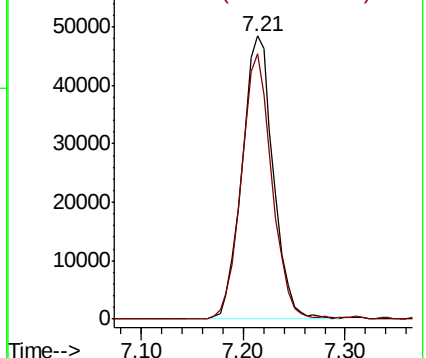
130 100

95 93.8 0.0 187.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.75 min Scan# 1082

Delta R.T. 0.00 min

Lab File: VX006680.D

Acq: 20 Dec 2018 17:07

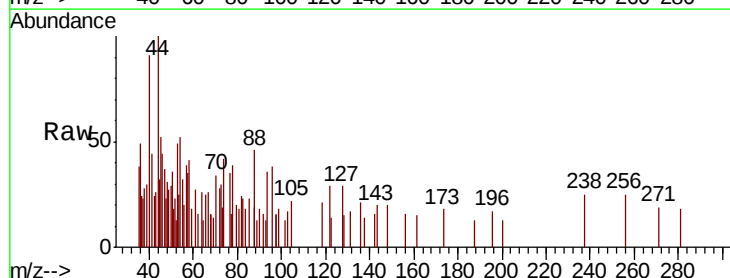
Tgt Ion: 88 Resp: 134

Ion Ratio Lower Upper

88 100

43 172.4 22.2 33.4#

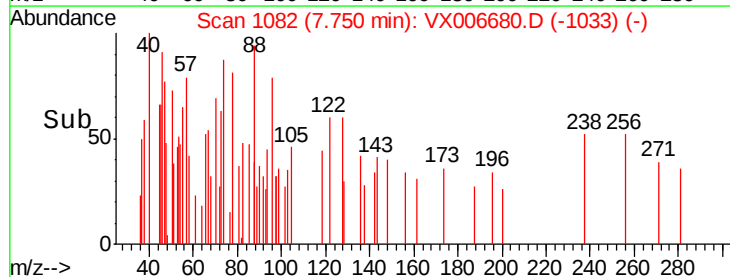
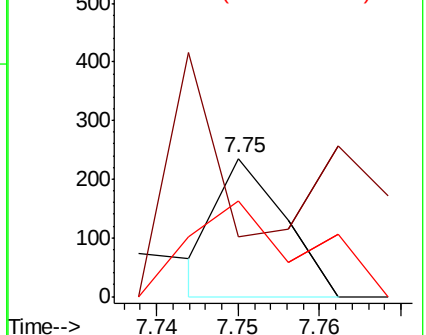
58 89.6 51.0 76.4#

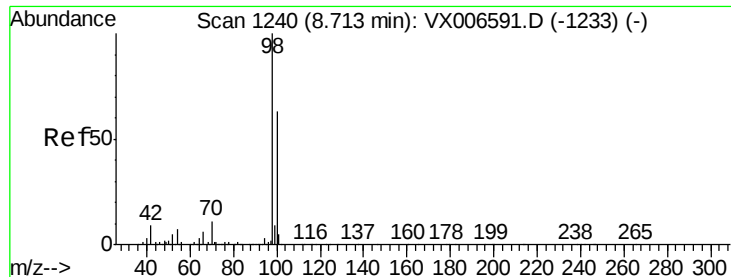


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.807 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006680.D

Acq: 20 Dec 2018 17:07

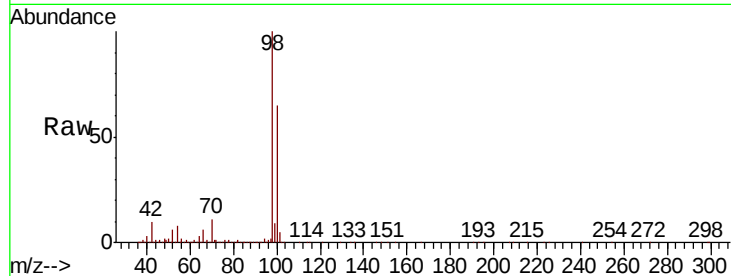
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 98 Resp: 1179338

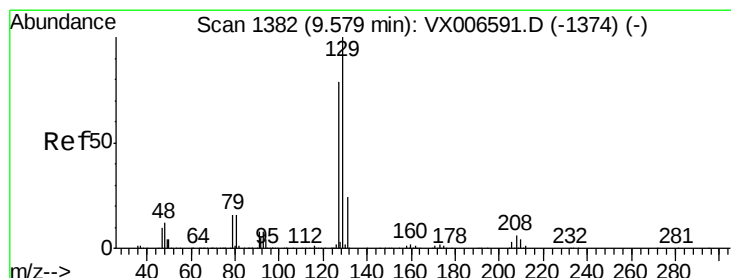
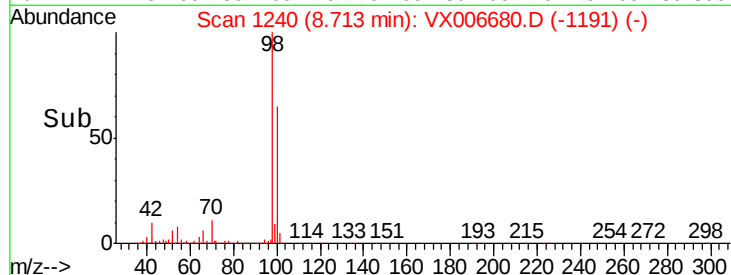
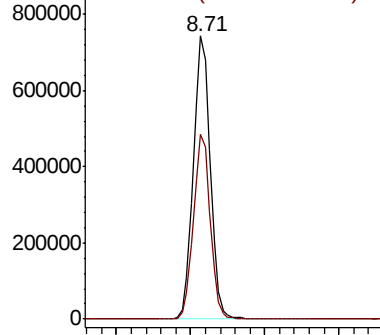
Ion Ratio Lower Upper

98 100

100 64.6 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX006680.D (-1191) (-)



#60

Dibromochloromethane

Concen: 23.439 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX006680.D

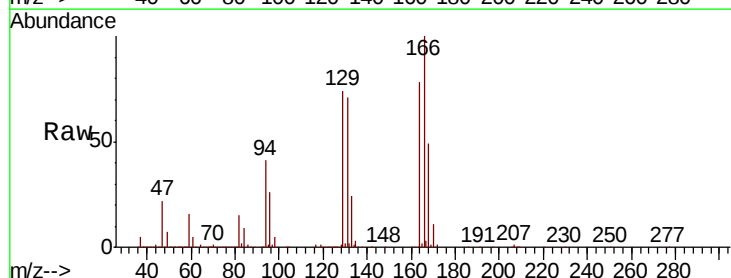
Acq: 20 Dec 2018 17:07

Tgt Ion:129 Resp: 153132

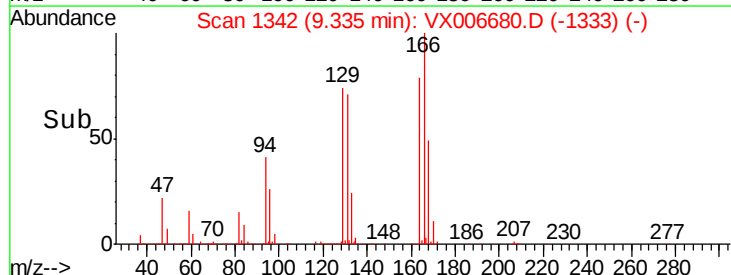
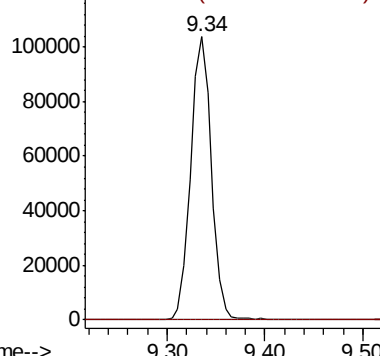
Ion Ratio Lower Upper

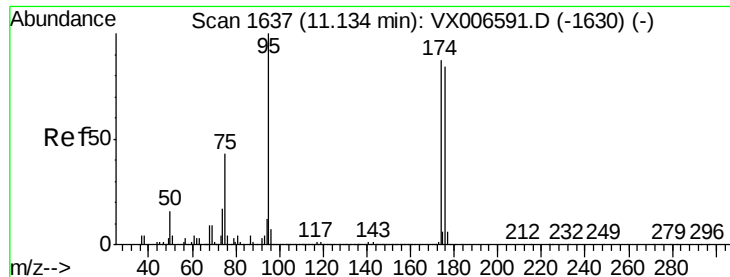
129 100

127 0.1 39.3 117.8#



Abundance Ion 128.80 (128.50 to 129.50): VX006680.D (-1333) (-)





#62

4-Bromofluorobenzene

Concen: 49.089 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX006680.D

Acq: 20 Dec 2018 17:07

Instrument :

MSVOA_X

ClientSampled :

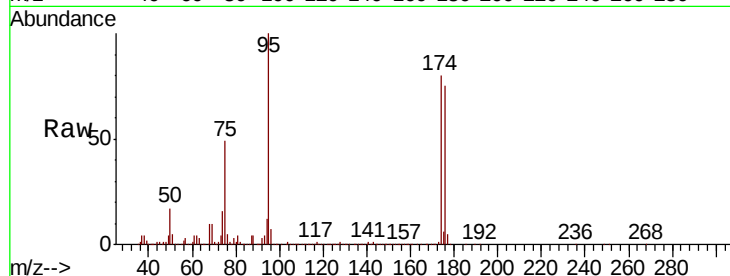
Tot Ion: 95 Resp: 425698

Ion Ratio Lower Upper

95 100

174 86.3 0.0 182.2

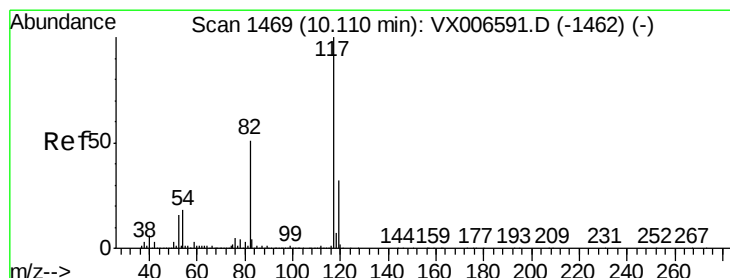
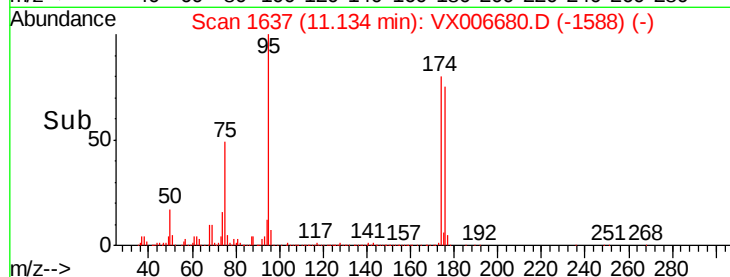
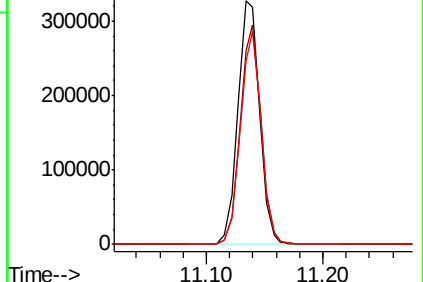
176 83.7 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): VX006591.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX006591.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX006591.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX006680.D

Acq: 20 Dec 2018 17:07

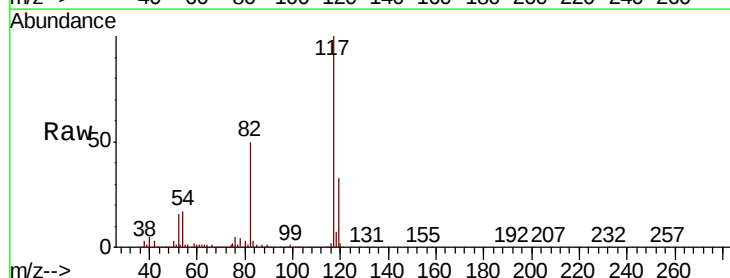
Tgt Ion: 117 Resp: 908521

Ion Ratio Lower Upper

117 100

82 50.4 41.0 61.6

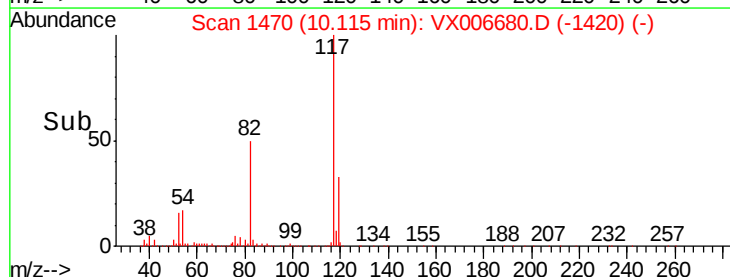
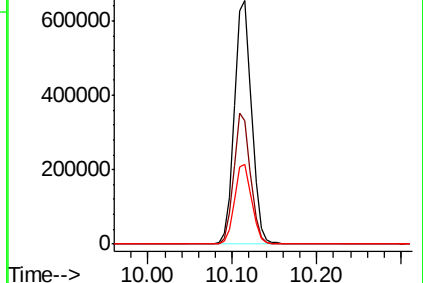
119 32.6 25.4 38.0

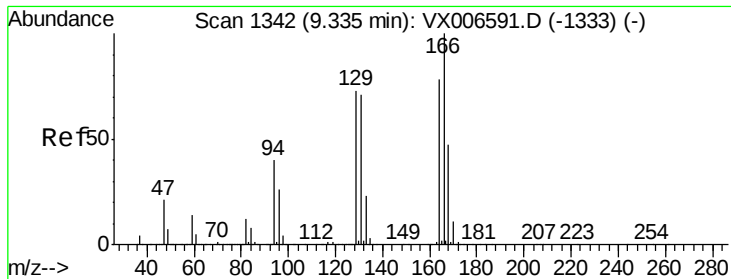


Abundance Ion 116.90 (116.60 to 117.60): VX006591.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX006591.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX006591.D (-1462) (-)





#64

Tetrachloroethene

Concen: 22.959 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX006680.D

Acq: 20 Dec 2018 17:07

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:164 Resp: 165169

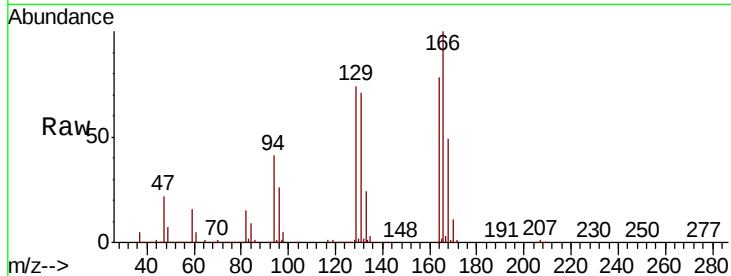
Ion Ratio Lower Upper

164 100

166 127.4 102.5 153.7

129 94.6 75.1 112.7

131 90.5 72.7 109.1



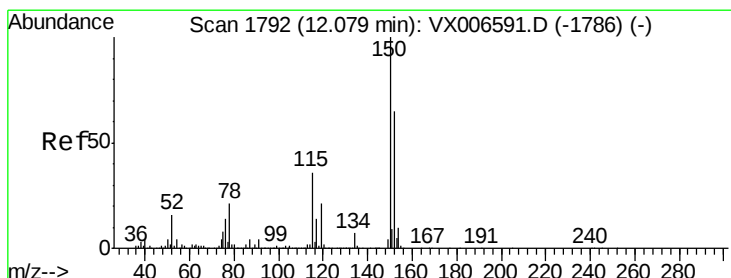
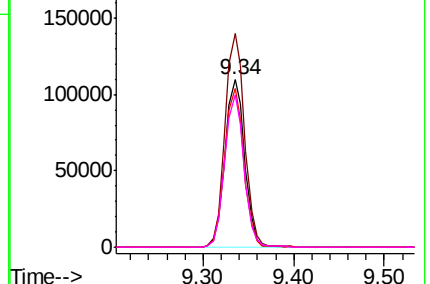
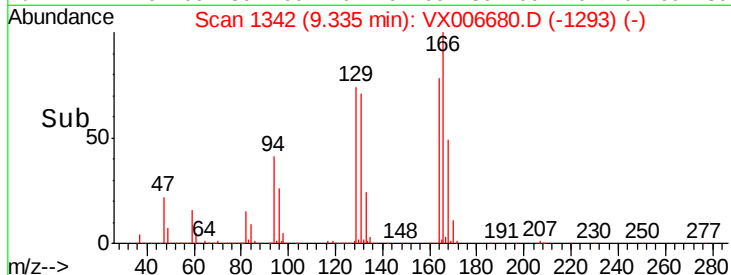
Abundance

Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): 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: VX006680.D

Acq: 20 Dec 2018 17:07

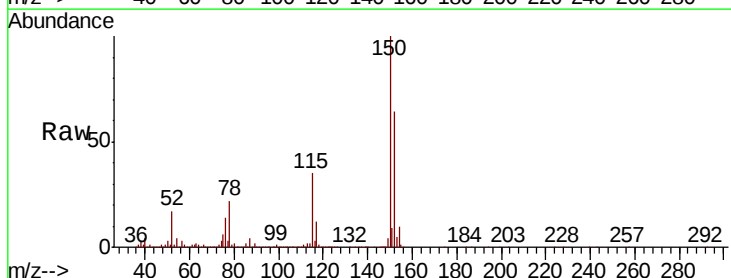
Tgt Ion:152 Resp: 438630

Ion Ratio Lower Upper

152 100

115 56.3 39.1 117.2

150 156.9 0.0 344.8

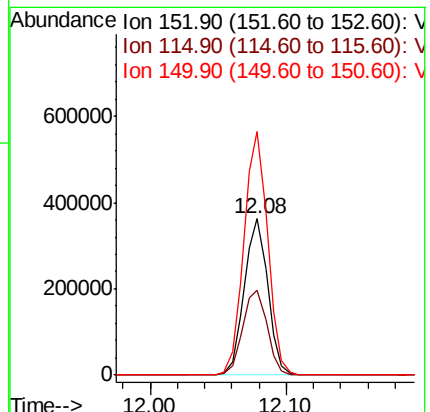
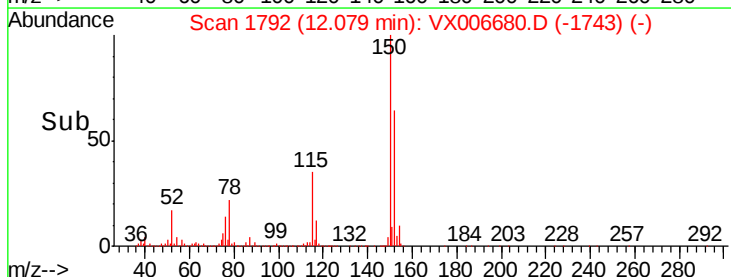


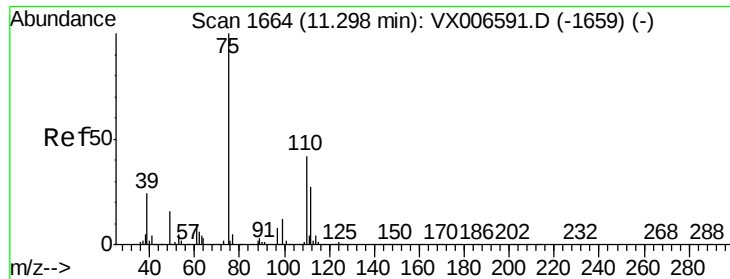
Abundance

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

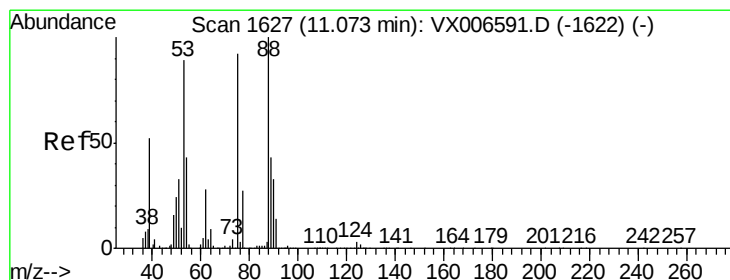
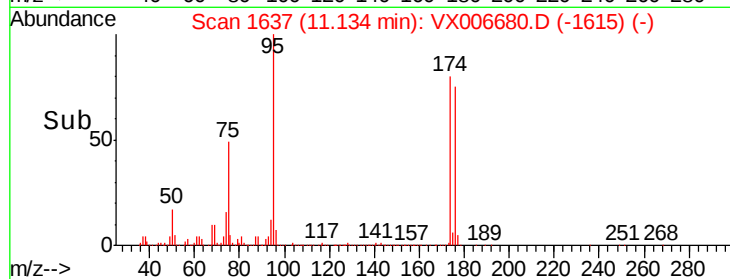
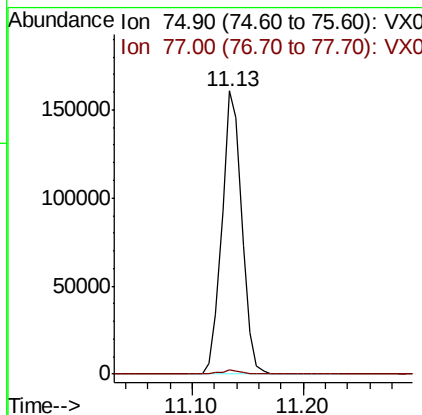
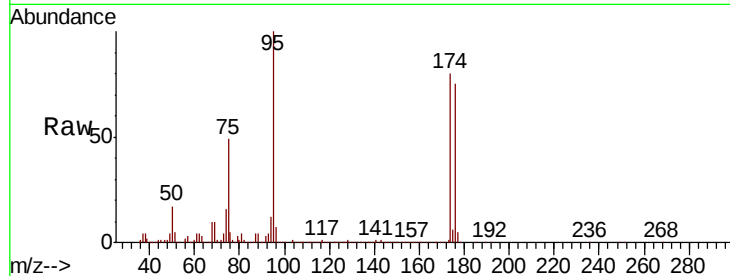




#76
 1,2,3-Trichloropropane
 Concen: 24.556 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX006680.D
 Acq: 20 Dec 2018 17:07

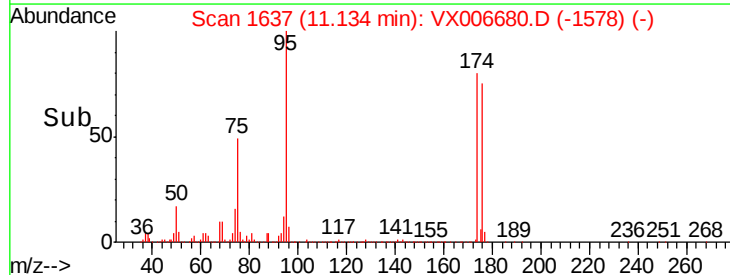
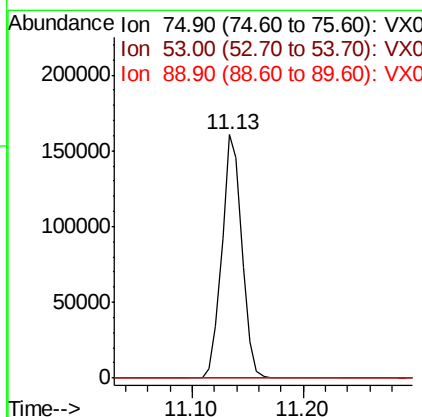
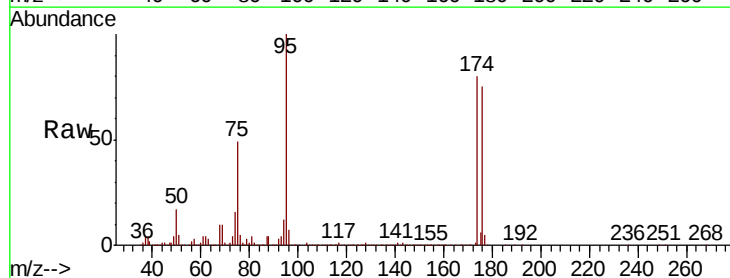
Instrument :
 MSVOA_X
 ClientSampleId :

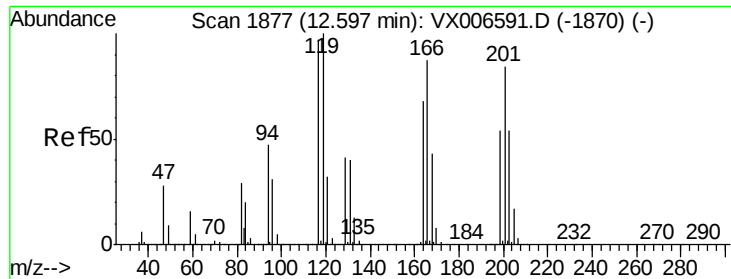
Tot Ion: 75 Resp: 200170
 Ion Ratio Lower Upper
 75 100
 77 1.4 18.5 55.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 72.637 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX006680.D
 Acq: 20 Dec 2018 17:07

Tgt Ion: 75 Resp: 200170
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.7 119.5#
 89 0.1 38.0 57.0#





#90

Hexachloroethane

Concen: 3.305 ug/l

RT: 12.64 min Scan# 1884

Delta R.T. 0.04 min

Lab File: VX006680.D

Acq: 20 Dec 2018 17:07

Instrument :

MSVOA_X

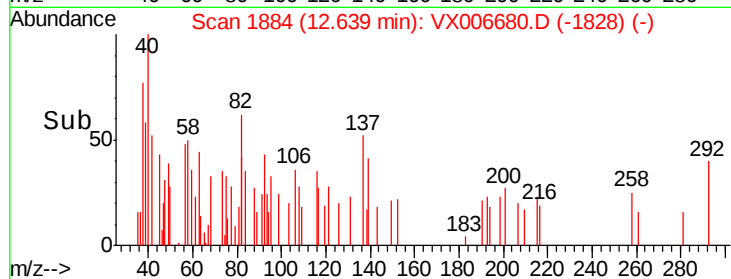
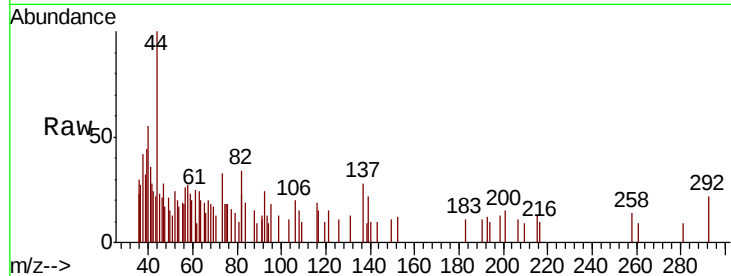
ClientSampleId :

Tot Ion:117 Resp: 52

Ion Ratio Lower Upper

117 100

201 59.6 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

