

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101719\
 Data File : VX013108.D
 Acq On : 17 Oct 2019 15:34
 Operator : JC/SP
 Sample : K5407-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DEVELOPMENT-WATER

Quant Time: Oct 18 09:20:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 07:26:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	167149	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	266951	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	226036	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	90336	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	102251	48.94	ug/l	0.00
Spiked Amount			Recovery	=	97.88%	
35) Dibromofluoromethane	5.49	113	80376	52.46	ug/l	0.00
Spiked Amount			Recovery	=	104.92%	
50) Toluene-d8	8.71	98	309938	51.87	ug/l	0.00
Spiked Amount			Recovery	=	103.74%	
62) 4-Bromofluorobenzene	11.14	95	104511	45.01	ug/l	0.00
Spiked Amount			Recovery	=	90.02%	

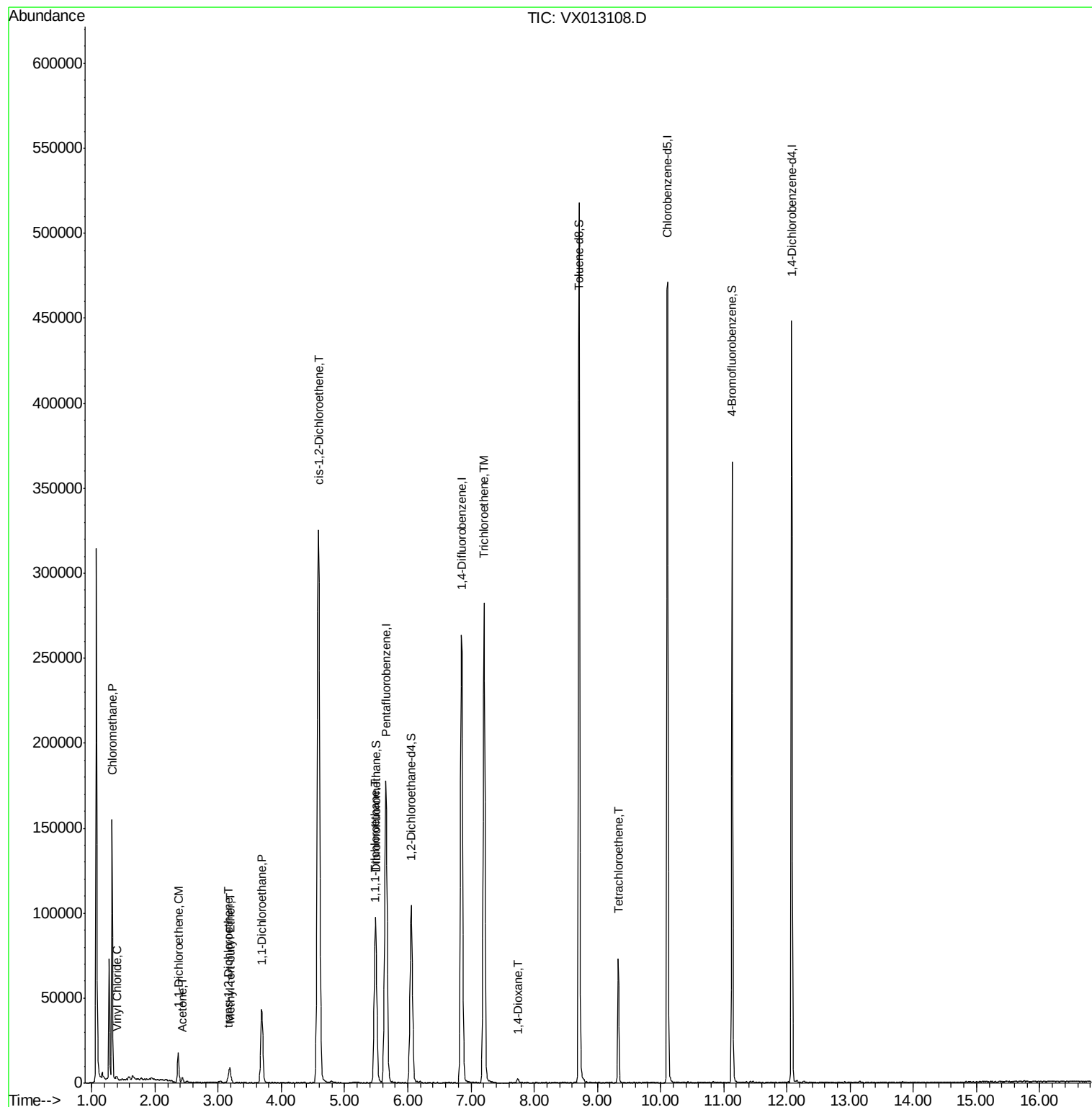
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	83896	45.245	ug/l	99
4) Vinyl Chloride	1.40	62	1009	0.527	ug/l #	88
12) 1,1-Dichloroethene	2.36	96	5802	3.435	ug/l	81
16) Acetone	2.44	43	3161	2.871	ug/l	94
19) Methyl tert-butyl Ether	3.19	73	9329	1.599	ug/l	98
21) trans-1,2-Dichloroethene	3.16	96	1124	0.621	ug/l	86
24) 1,1-Dichloroethane	3.69	63	48880	15.074	ug/l	99
27) cis-1,2-Dichloroethene	4.59	96	216190	103.596	ug/l	88
32) 1,1,1-Trichloroethane	5.47	97	3333	1.182	ug/l #	49
44) Trichloroethene	7.21	130	113480	59.034	ug/l	96
49) 1,4-Dioxane	7.74	88	2028	70.608	ug/l #	84
64) Tetrachloroethene	9.33	164	13861	8.841	ug/l	96

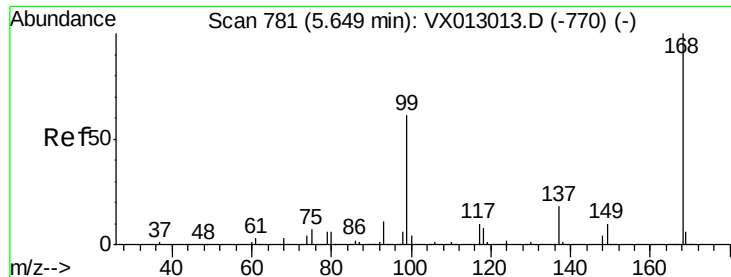
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Oct 16 07:26:22 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX013108.D

Acq: 17 Oct 2019 15:34

Instrument :

MSVOA_X

ClientSampleId :

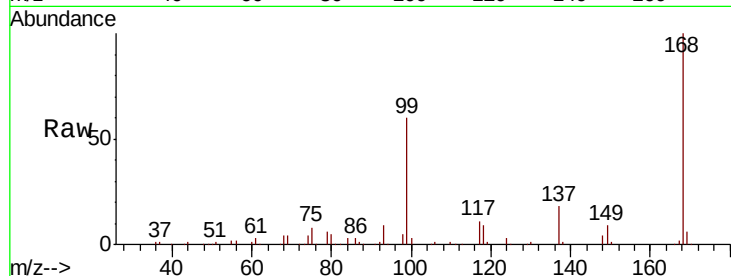
DEVELOPMENT-WATER

Tot Ion:168 Resp: 167149

Ion Ratio Lower Upper

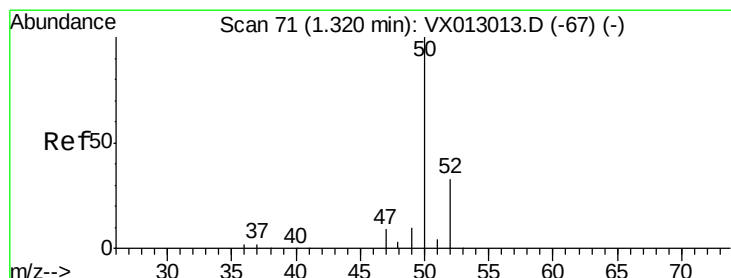
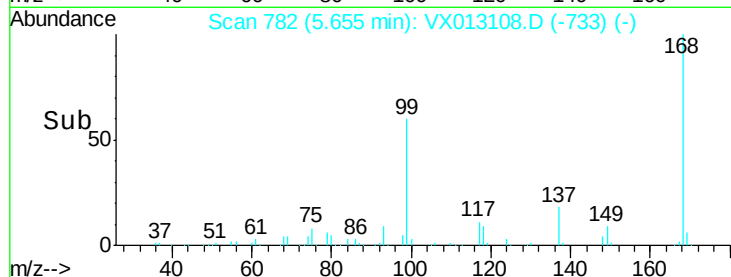
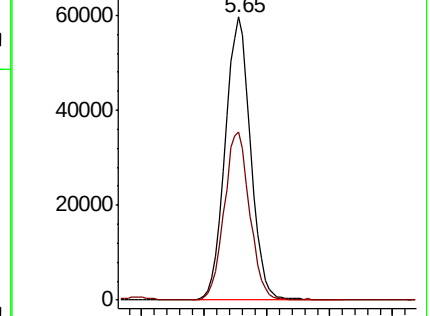
168 100

99 59.5 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 45.245 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX013108.D

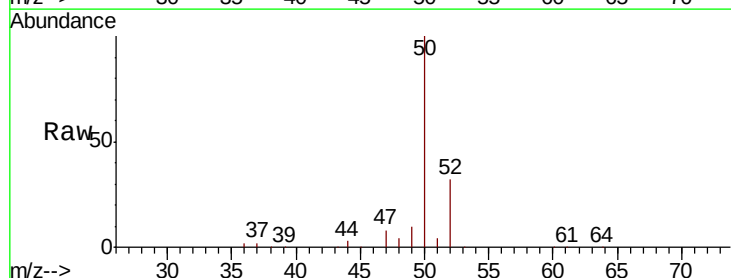
Acq: 17 Oct 2019 15:34

Tgt Ion: 50 Resp: 83896

Ion Ratio Lower Upper

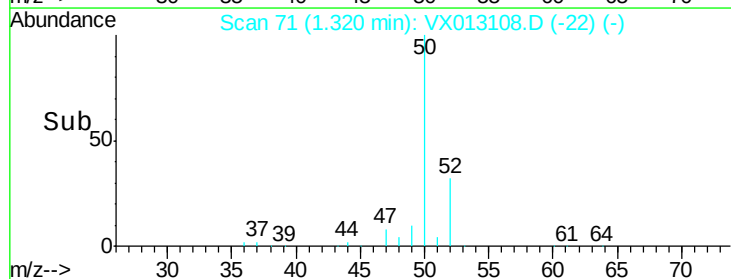
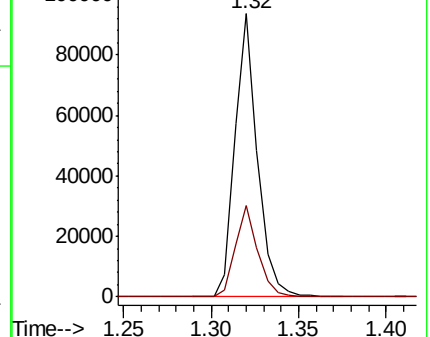
50 100

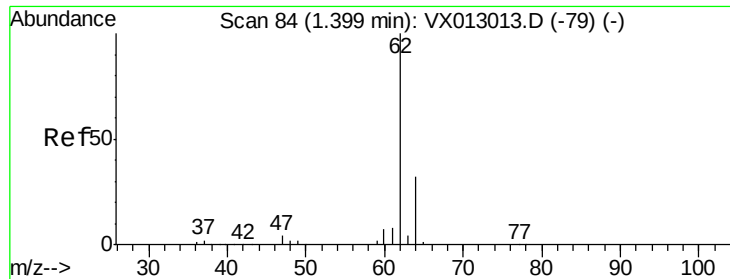
52 32.3 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 0.527 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX013108.D

Acq: 17 Oct 2019 15:34

Instrument :

MSVOA_X

ClientSampleId :

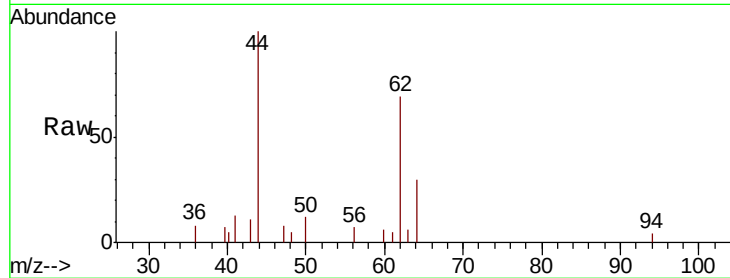
DEVELOPMENT-WATER

Tot Ion: 62 Resp: 1009

Ion Ratio Lower Upper

62 100

64 38.2 25.3 37.9#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

800

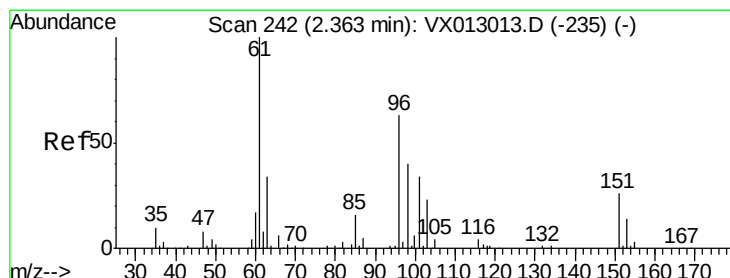
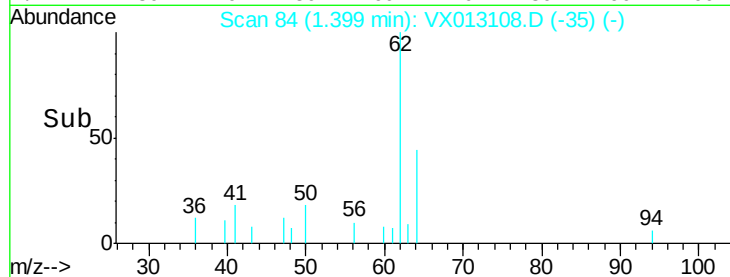
600

400

200

0

Time-->



#12

1,1-Dichloroethene

Concen: 3.435 ug/l

RT: 2.36 min Scan# 242

Delta R.T. -0.00 min

Lab File: VX013108.D

Acq: 17 Oct 2019 15:34

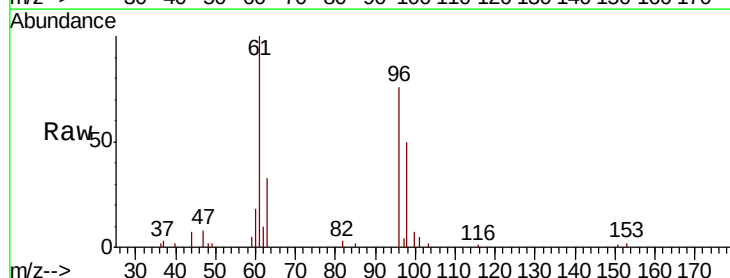
Tgt Ion: 96 Resp: 5802

Ion Ratio Lower Upper

96 100

61 132.4 132.2 198.4

98 66.5 50.5 75.7



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

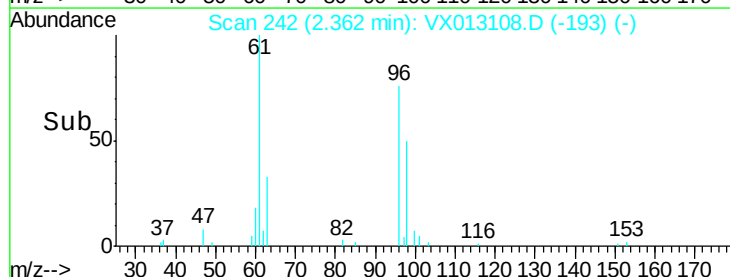
6000

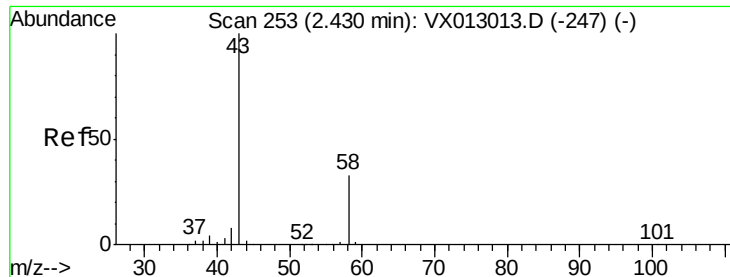
4000

2000

0

Time-->





#16

Acetone

Concen: 2.871 ug/l

RT: 2.44 min Scan# 254

Delta R.T. -0.00 min

Lab File: VX013108.D

Acq: 17 Oct 2019 15:34

Instrument :

MSVOA_X

ClientSampleId :

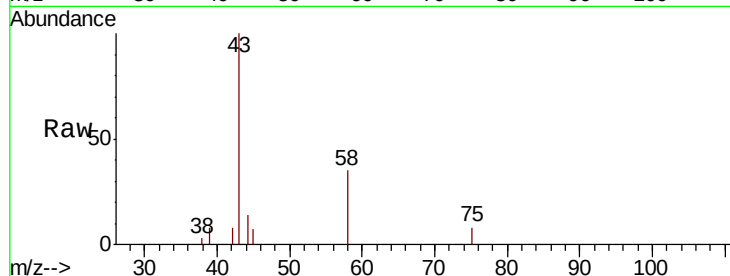
DEVELOPMENT-WATER

Tot Ion: 43 Resp: 3161

Ion Ratio Lower Upper

43 100

58 35.1 25.4 38.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

1500

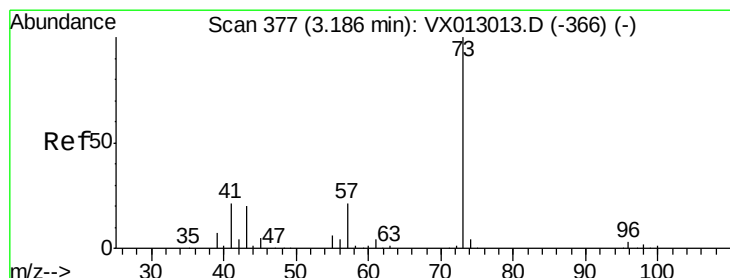
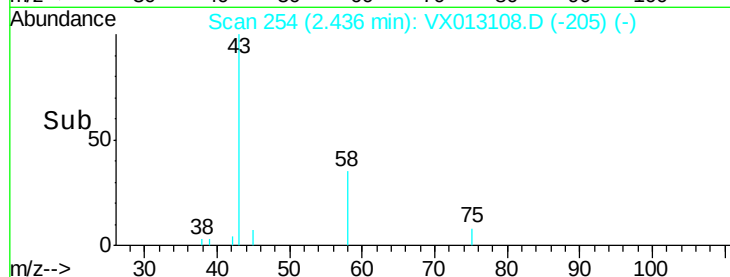
1000

500

0

Time-->

2.40 2.45 2.50



#19

Methyl tert-butyl Ether

Concen: 1.599 ug/l

RT: 3.19 min Scan# 377

Delta R.T. -0.00 min

Lab File: VX013108.D

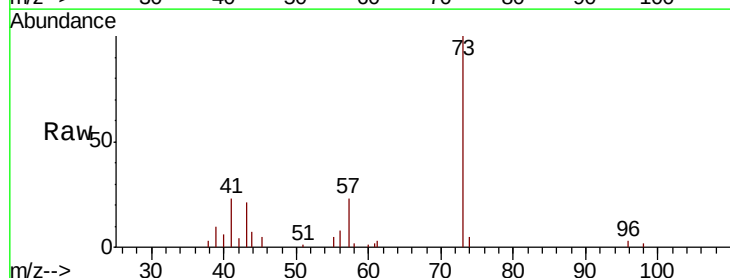
Acq: 17 Oct 2019 15:34

Tgt Ion: 73 Resp: 9329

Ion Ratio Lower Upper

73 100

57 23.2 17.8 26.6



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.19

4000

3000

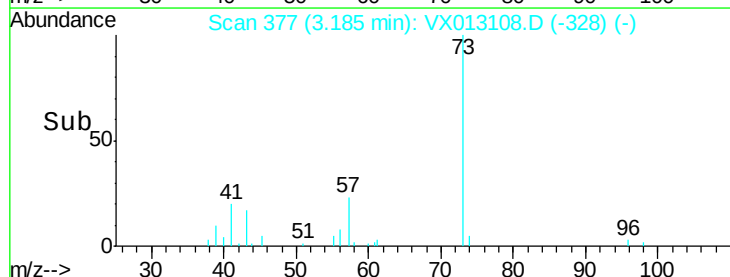
2000

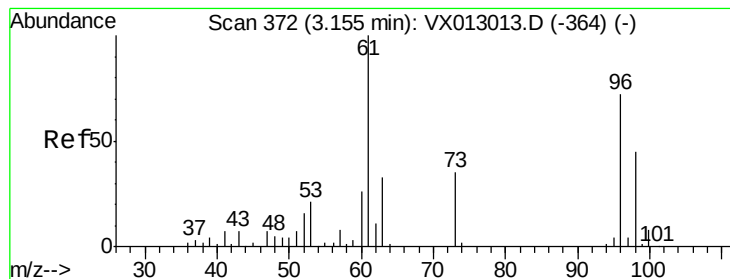
1000

0

Time-->

3.10 3.15 3.20 3.25 3.30





#21

trans-1,2-Dichloroethene

Concen: 0.621 ug/l

RT: 3.16 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX013108.D

Acq: 17 Oct 2019 15:34

Instrument :

MSVOA_X

ClientSampleId :

DEVELOPMENT-WATER

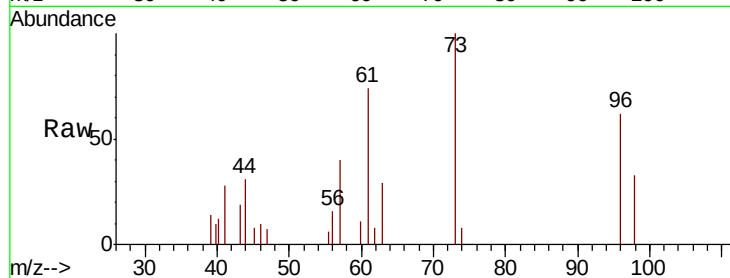
Tot Ion: 96 Resp: 1124

Ion Ratio Lower Upper

96 100

61 119.9 110.4 165.6

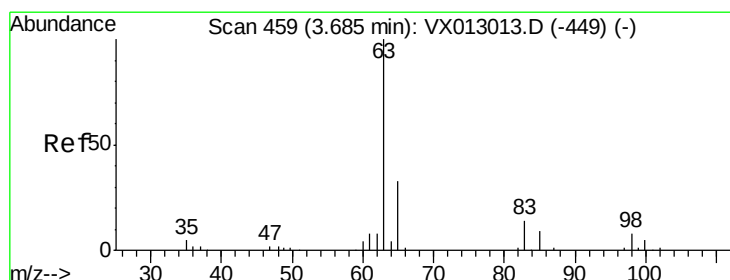
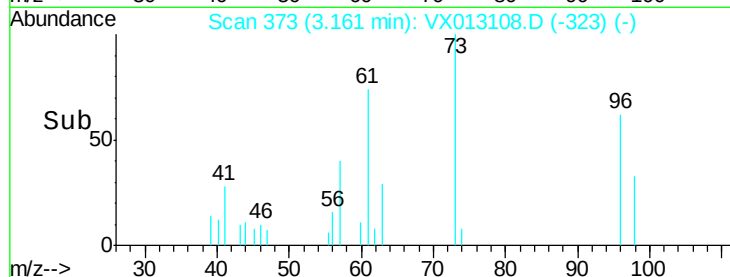
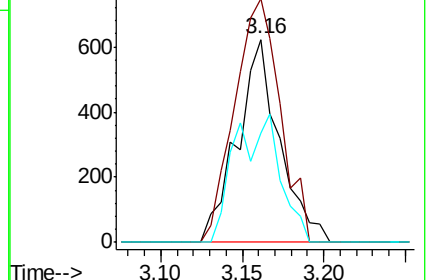
98 53.9 51.5 77.3



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



#24

1,1-Dichloroethane

Concen: 15.074 ug/l

RT: 3.69 min Scan# 459

Delta R.T. -0.00 min

Lab File: VX013108.D

Acq: 17 Oct 2019 15:34

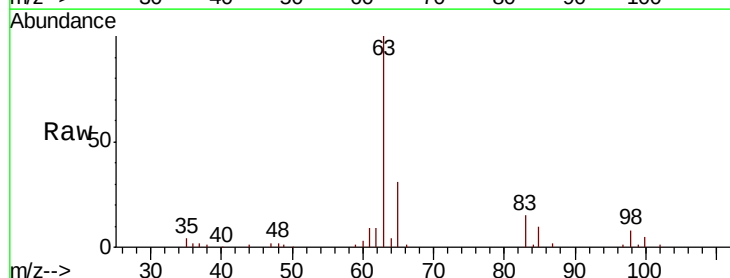
Tgt Ion: 63 Resp: 48880

Ion Ratio Lower Upper

63 100

98 7.5 3.9 11.5

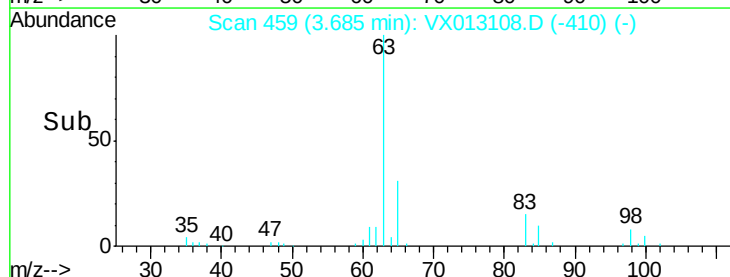
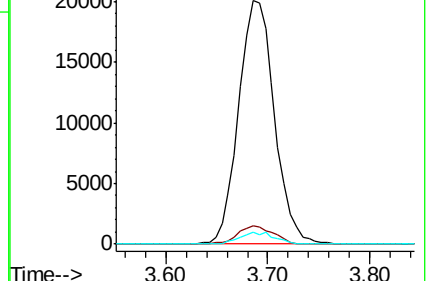
100 5.2 2.3 6.9

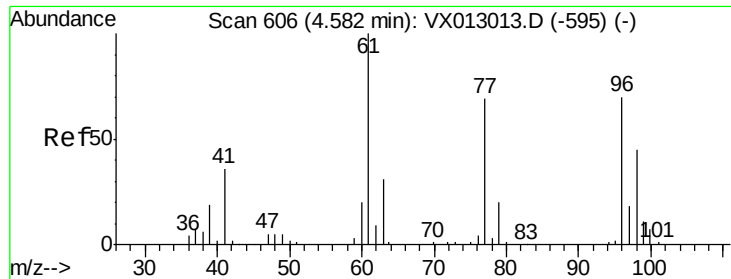


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



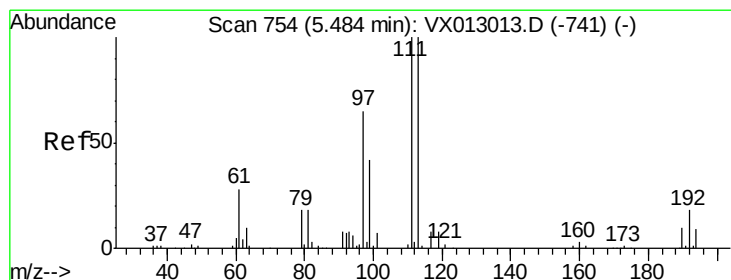
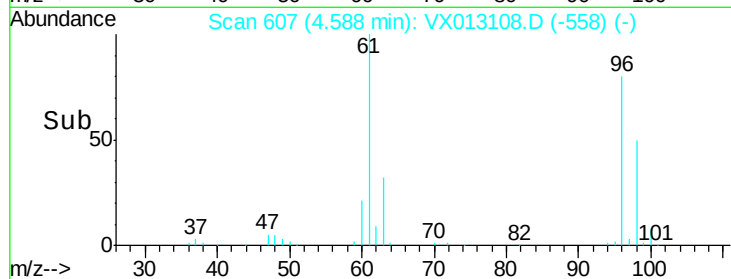
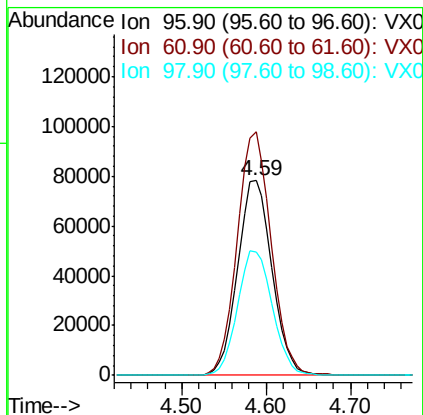
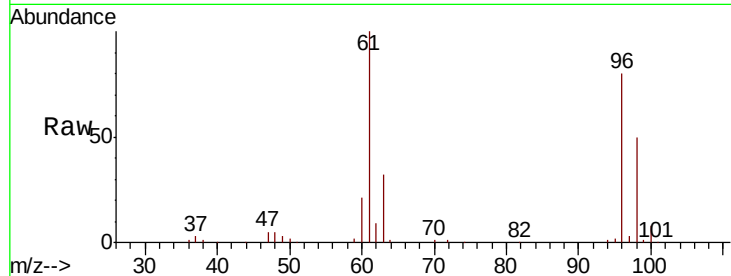


#27

cis-1,2-Dichloroethene
 Concen: 103.596 ug/l
 RT: 4.59 min Scan# 607
 Delta R.T. -0.00 min
 Lab File: VX013108.D
 Acq: 17 Oct 2019 15:34

Instrument :
 MSVOA_X
 ClientSampleId :
 DEVELOPMENT-WATER

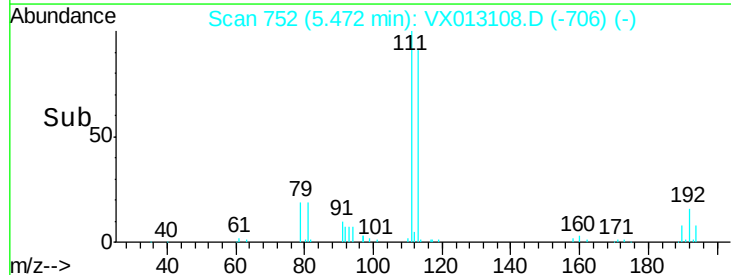
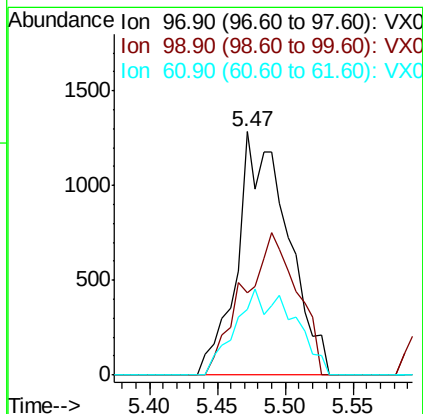
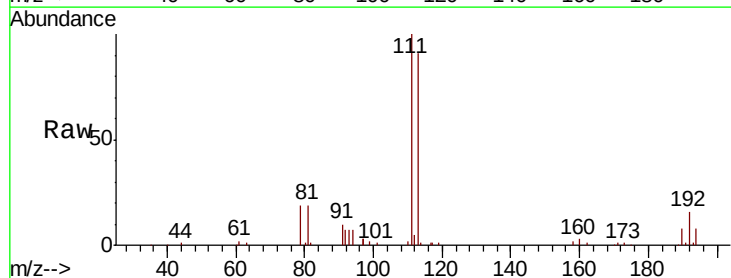
Tot Ion: 96 Resp: 216190
 Ion Ratio Lower Upper
 96 100
 61 123.7 0.0 290.6
 98 64.9 0.0 128.8

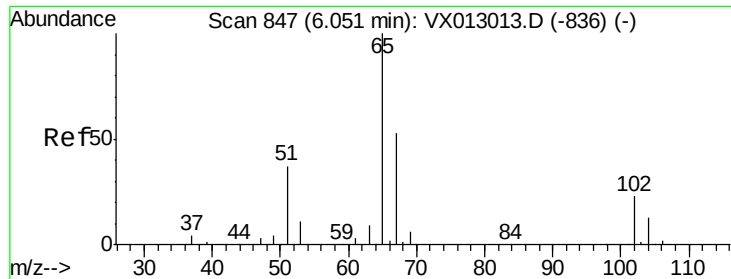


#32

1,1,1-Trichloroethane
 Concen: 1.182 ug/l
 RT: 5.47 min Scan# 752
 Delta R.T. -0.02 min
 Lab File: VX013108.D
 Acq: 17 Oct 2019 15:34

Tgt Ion: 97 Resp: 3333
 Ion Ratio Lower Upper
 97 100
 99 0.0 52.3 78.5#
 61 40.7 35.0 52.4

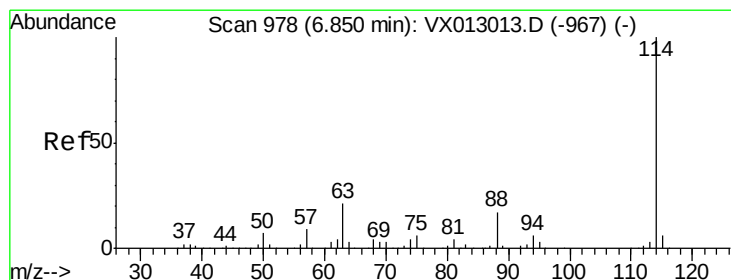
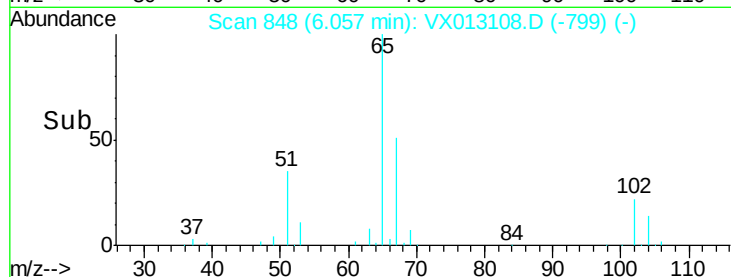
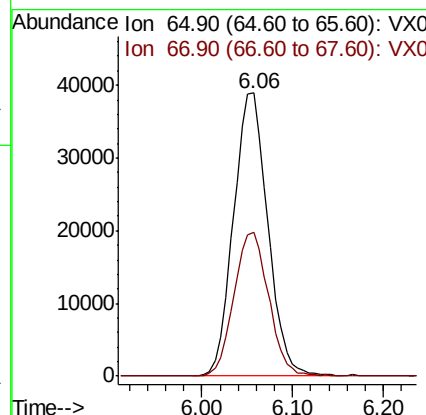
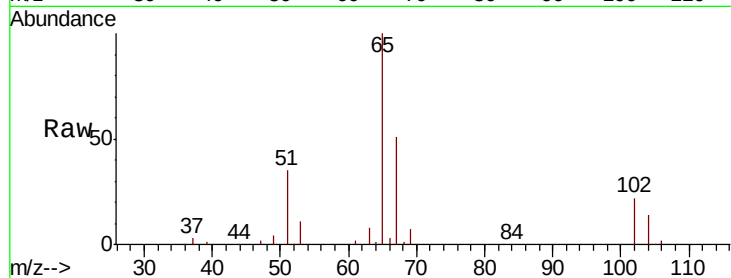




#33
 1,2-Dichloroethane-d4
 Concen: 48.944 ug/l
 RT: 6.06 min Scan# 848
 Delta R.T. -0.00 min
 Lab File: VX013108.D
 Acq: 17 Oct 2019 15:34

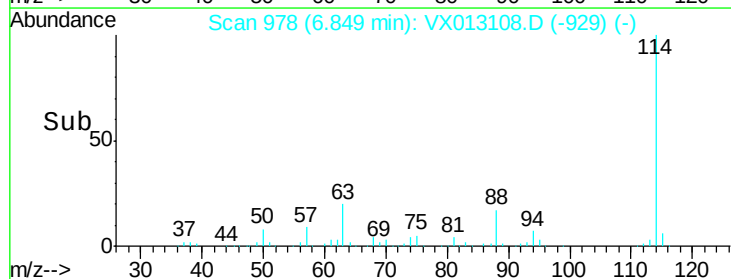
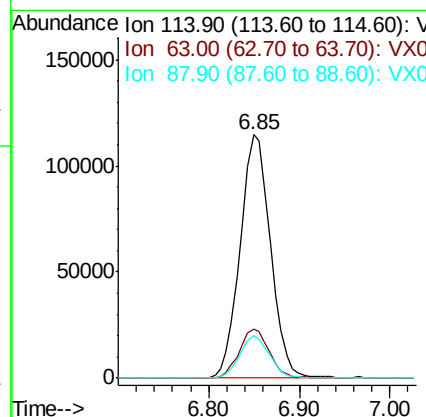
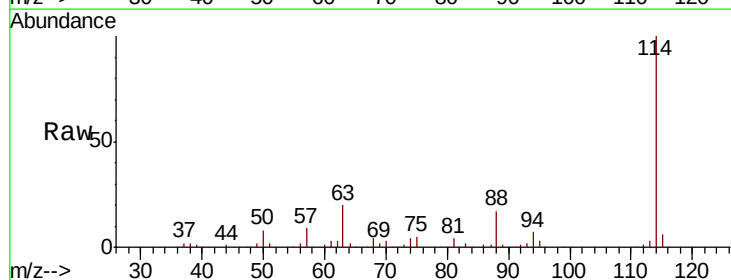
Instrument :
 MSVOA_X
 ClientSampleId :
 DEVELOPMENT-WATER

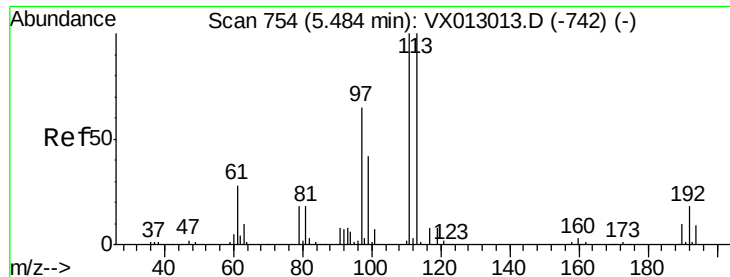
Tot Ion: 65 Resp: 102251
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX013108.D
 Acq: 17 Oct 2019 15:34

Tgt Ion: 114 Resp: 266951
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 40.8
 88 17.5 0.0 33.8





#35

Dibromofluoromethane

Concen: 52.459 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013108.D

Acq: 17 Oct 2019 15:34

Instrument :

MSVOA_X

ClientSampleId :

DEVELOPMENT-WATER

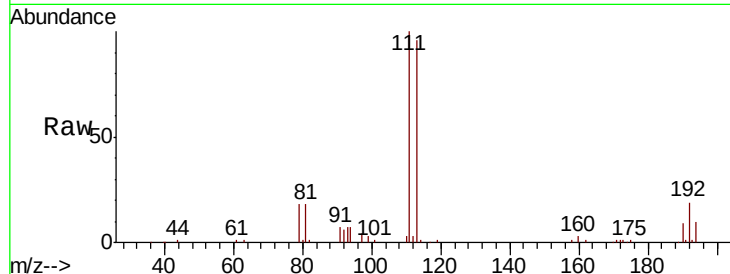
Tot Ion:113 Resp: 80376

Ion Ratio Lower Upper

113 100

111 104.6 83.2 124.8

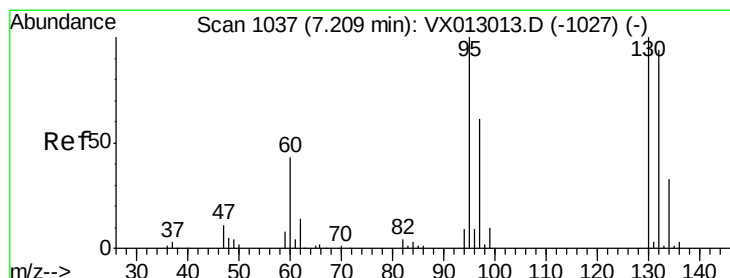
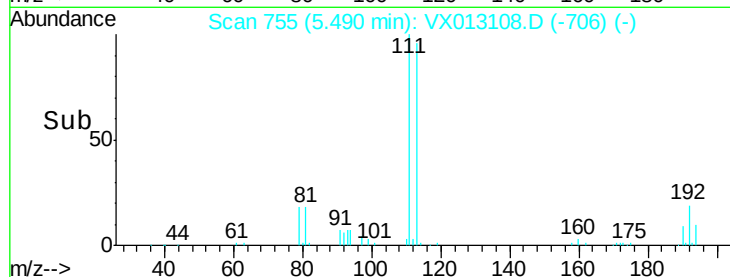
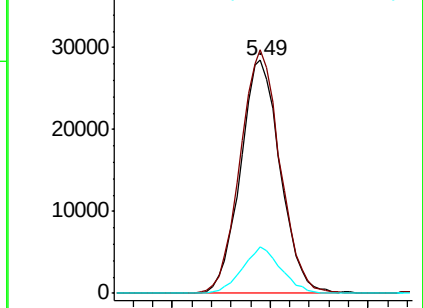
192 19.2 15.4 23.2



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



#44

Trichloroethene

Concen: 59.034 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. -0.00 min

Lab File: VX013108.D

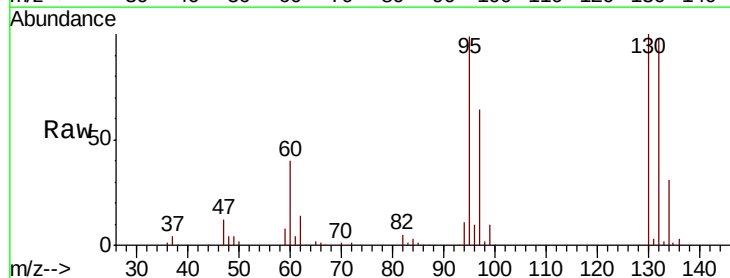
Acq: 17 Oct 2019 15:34

Tgt Ion:130 Resp: 113480

Ion Ratio Lower Upper

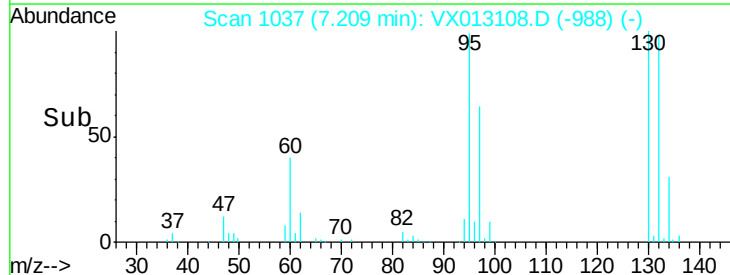
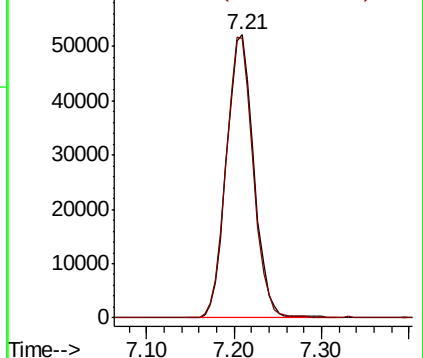
130 100

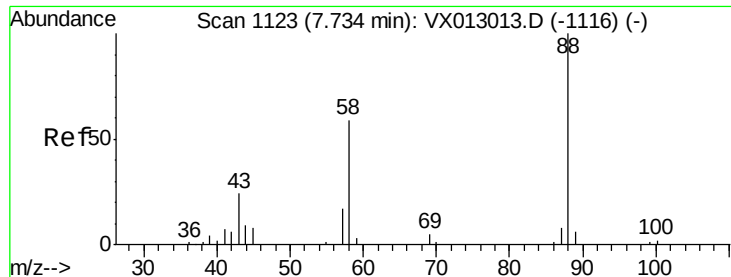
95 98.5 0.0 189.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

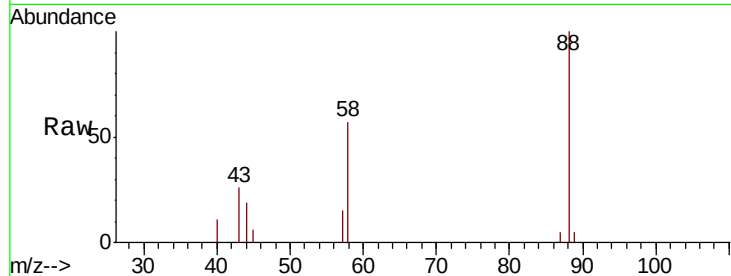




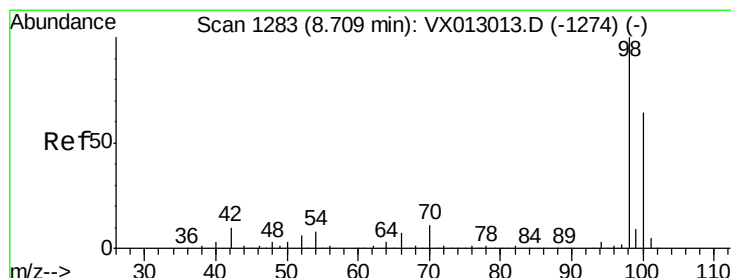
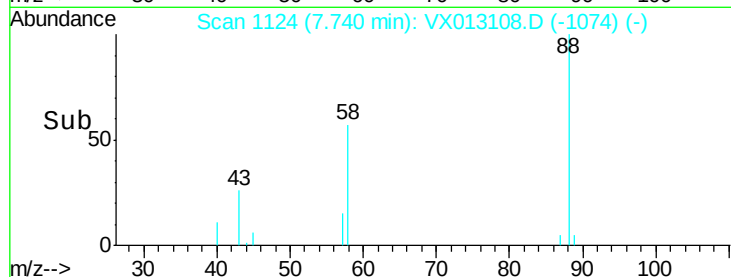
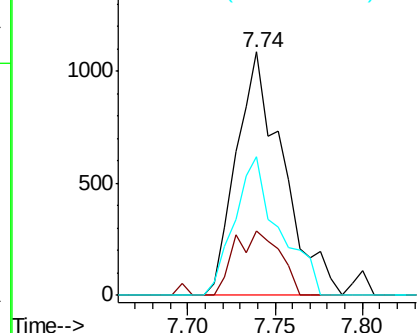
#49
1,4-Dioxane
Concen: 70.608 ug/l
RT: 7.74 min Scan# 1124
Delta R.T. 0.01 min
Lab File: VX013108.D
Acq: 17 Oct 2019 15:34

Instrument :
MSVOA_X
ClientSampleId :
DEVELOPMENT-WATER

Tot Ion: 88 Resp: 2028
Ion Ratio Lower Upper
88 100
43 25.4 25.0 37.6
58 54.2 55.4 83.2#

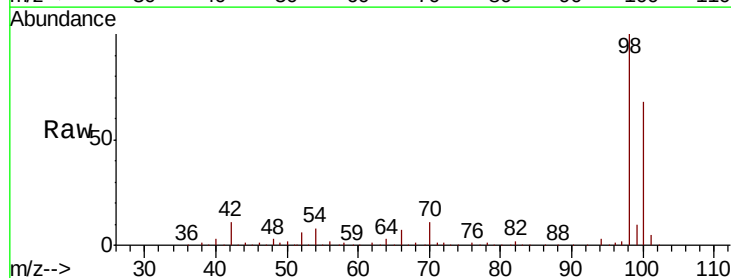


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

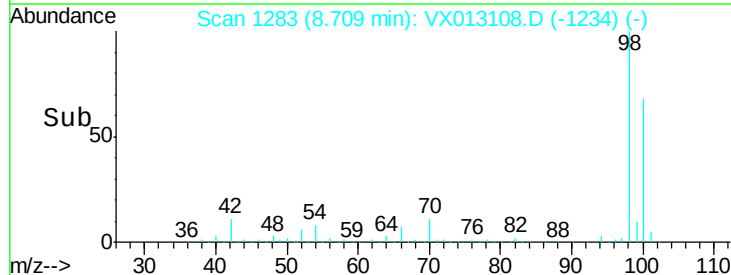
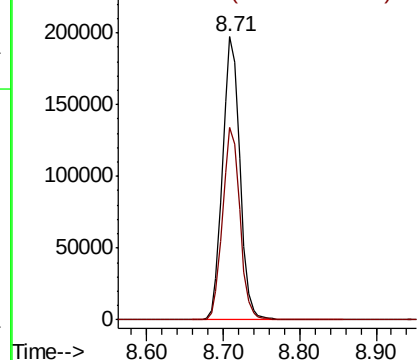


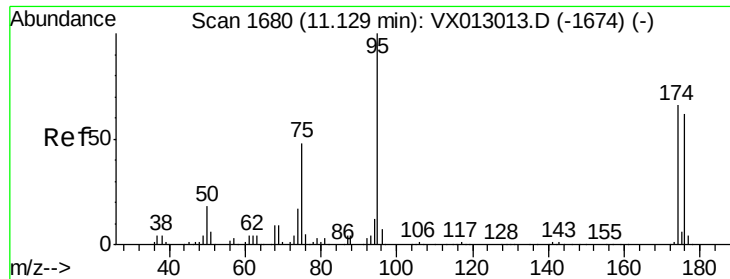
#50
Toluene-d8
Concen: 51.866 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX013108.D
Acq: 17 Oct 2019 15:34

Tgt Ion: 98 Resp: 309938
Ion Ratio Lower Upper
98 100
100 67.7 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0

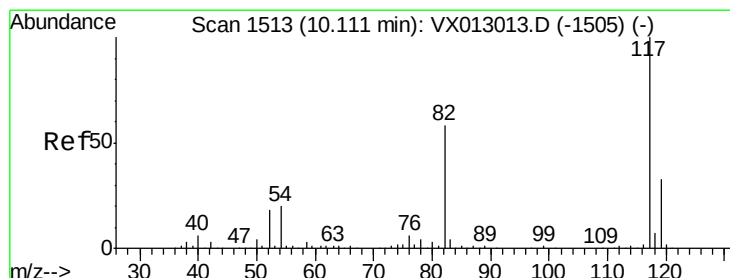
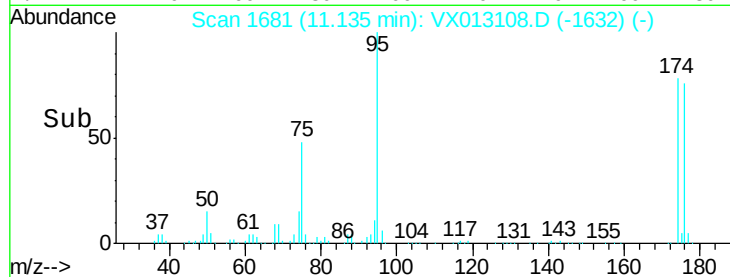
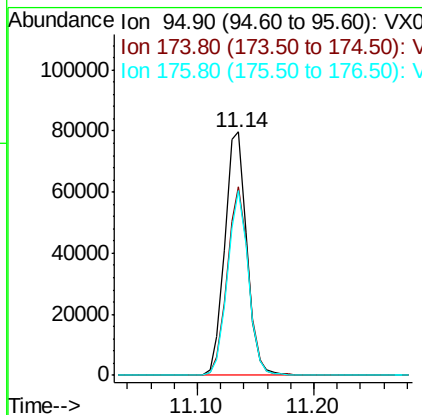
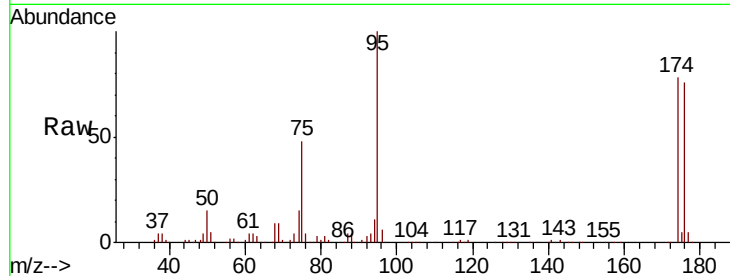




#62
4-Bromofluorobenzene
Concen: 45.010 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VX013108.D
Acq: 17 Oct 2019 15:34

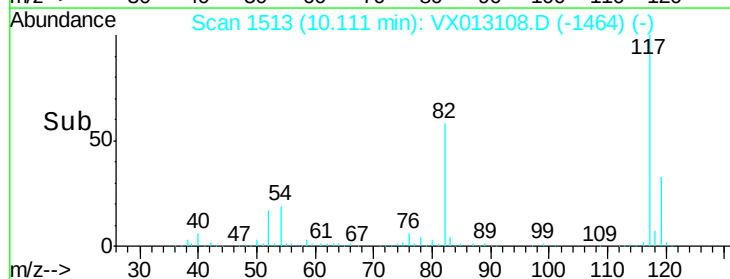
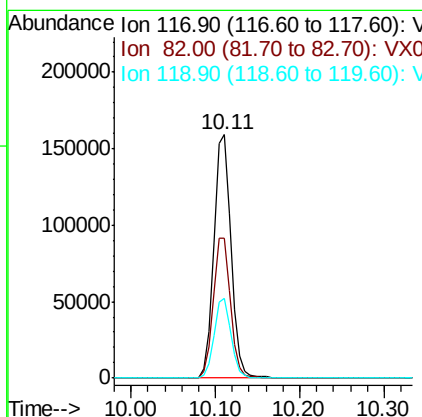
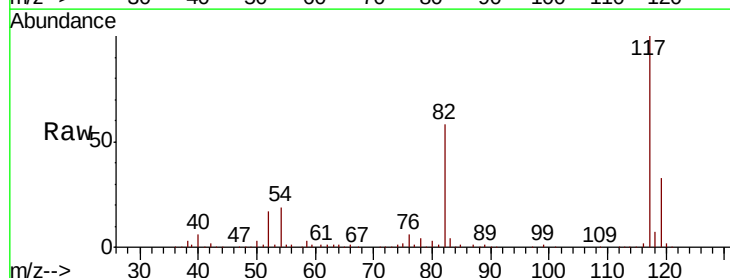
Instrument :
MSVOA_X
ClientSampleId :
DEVELOPMENT-WATER

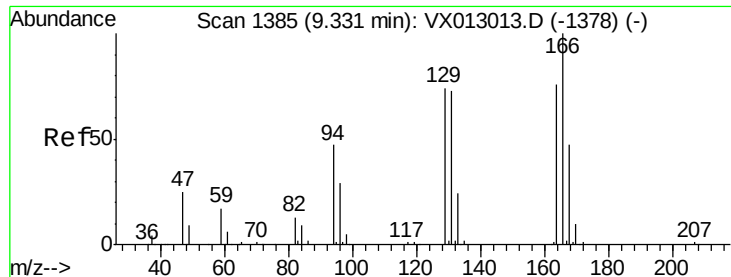
Tot Ion: 95 Resp: 104511
Ion Ratio Lower Upper
95 100
174 75.1 0.0 143.4
176 72.0 0.0 136.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013108.D
Acq: 17 Oct 2019 15:34

Tgt Ion: 117 Resp: 226036
Ion Ratio Lower Upper
117 100
82 57.7 44.1 66.1
119 32.9 25.8 38.8

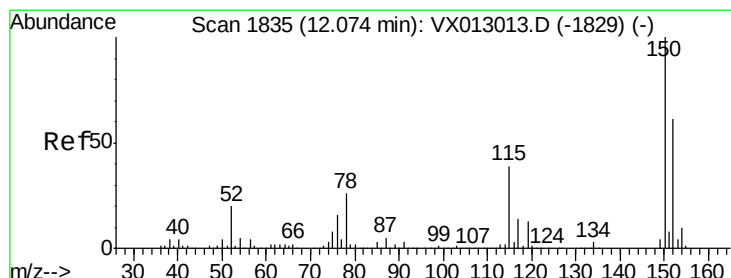
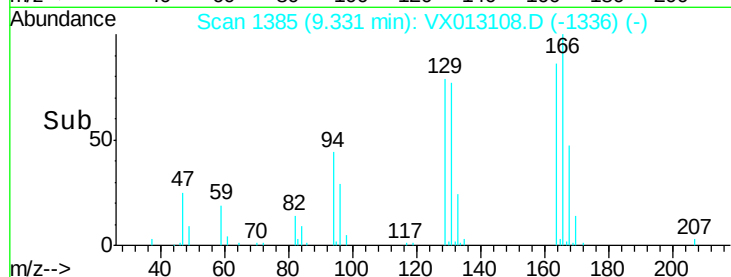
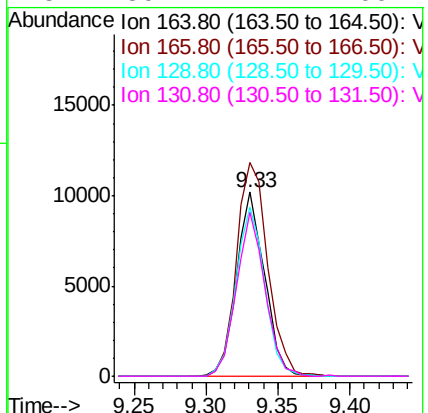
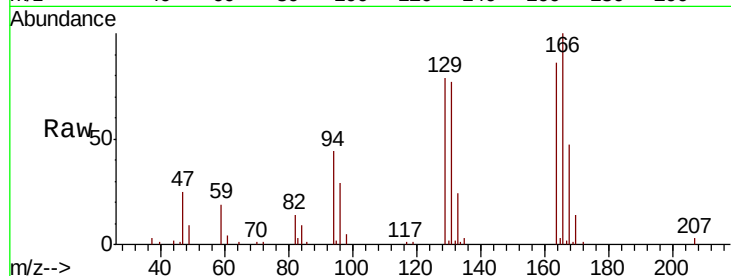




#64
Tetrachloroethene
Concen: 8.841 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VX013108.D
Acq: 17 Oct 2019 15:34

Instrument :
MSVOA_X
ClientSampleId :
DEVELOPMENT-WATER

Tot Ion:164 Resp: 13861
Ion Ratio Lower Upper
164 100
166 116.2 96.9 145.3
129 92.0 77.9 116.9
131 89.2 72.7 109.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX013108.D
Acq: 17 Oct 2019 15:34

Tgt Ion:152 Resp: 90336
Ion Ratio Lower Upper
152 100
115 61.3 44.5 133.5
150 154.8 0.0 353.4

