

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061818\
 Data File : VX002697.D
 Acq On : 19 Jun 2018 00:07
 Operator : JC/MD
 Sample : J3563-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 19 05:11:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:37:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	223808	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	314234	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	291554	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	164460	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	148545	43.68	ug/l	0.00
Spiked Amount			Recovery	=	87.36%	
35) Dibromofluoromethane	5.51	113	118643	47.31	ug/l	0.00
Spiked Amount			Recovery	=	94.62%	
50) Toluene-d8	8.72	98	445056	46.74	ug/l	0.00
Spiked Amount			Recovery	=	93.48%	
62) 4-Bromofluorobenzene	11.14	95	156024	43.24	ug/l	0.00
Spiked Amount			Recovery	=	86.48%	

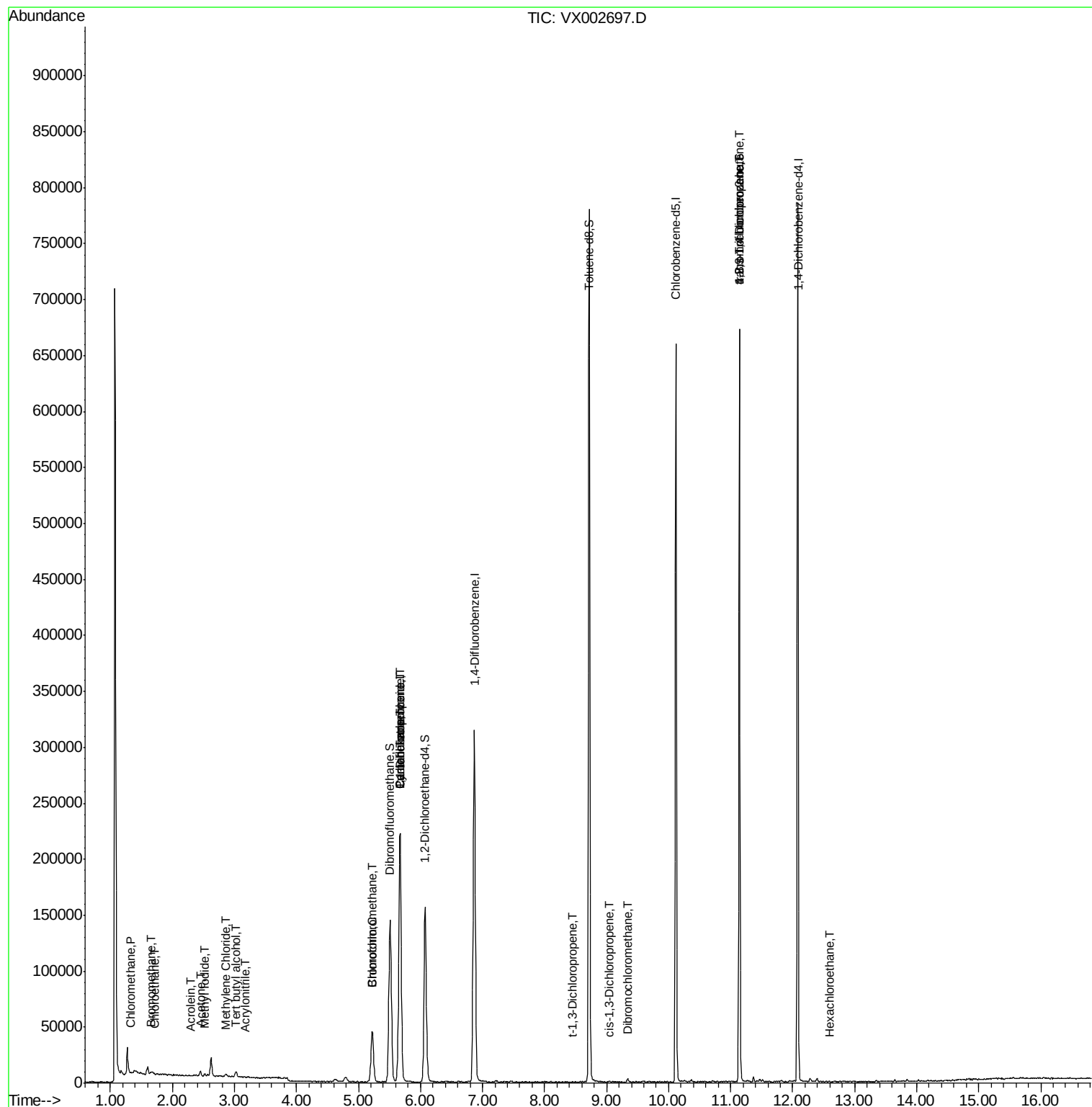
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	858	0.30	ug/l	97
5) Bromomethane	1.65	94	1601	0.90	ug/l	87
6) Chloroethane	1.71	64	1847	0.96	ug/l #	43
10) Methyl Iodide	2.53	142	2293	5.75	ug/l	97
11) Tert butyl alcohol	3.02	59	2768	3.94	ug/l #	84
13) Acrolein	2.30	56	260	7.63	ug/l #	64
15) Acrylonitrile	3.17	53	347	0.23	ug/l #	43
16) Acetone	2.45	43	5195	3.46	ug/l	100
20) Methylene Chloride	2.86	84	1165	0.38	ug/l #	78
28) Bromochloromethane	5.21	49	4601	2.02	ug/l #	13
30) Chloroform	5.23	83	51807	11.02	ug/l	97
31) Cyclohexane	5.67	56	4418	1.10	ug/l #	5
36) 1,1-Dichloropropene	5.67	75	15425	4.62	ug/l #	51
38) Carbon Tetrachloride	5.67	117	20987	6.32	ug/l #	15
53) t-1,3-Dichloropropene	8.45	75	44	2.40	ug/l #	1
54) cis-1,3-Dichloropropene	9.05	75	119	3.24	ug/l #	47
60) Dibromochloromethane	9.34	129	197	3.82	ug/l #	11
76) 1,2,3-Trichloropropane	11.14	75	82921	26.72	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	82921	82.53	ug/l #	7
90) Hexachloroethane	12.60	117	75	2.67	ug/l #	1

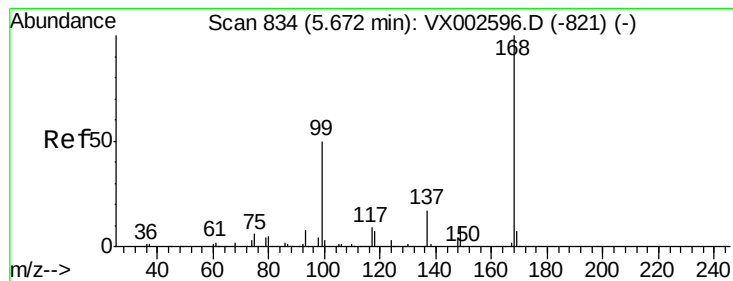
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX061818\
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002697.D

Acq: 19 Jun 2018 00:07

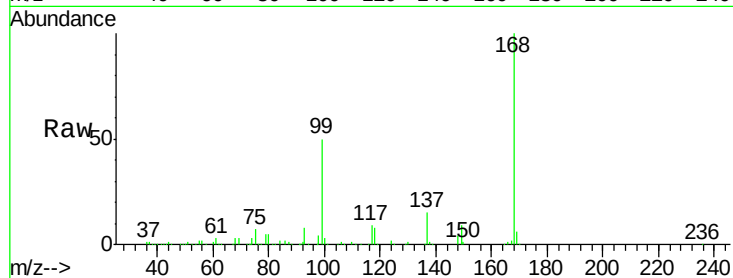
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 223808

Ion Ratio Lower Upper

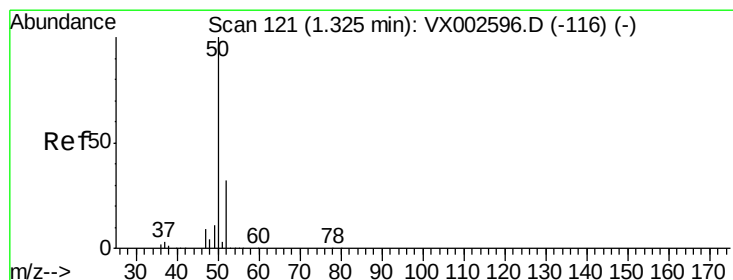
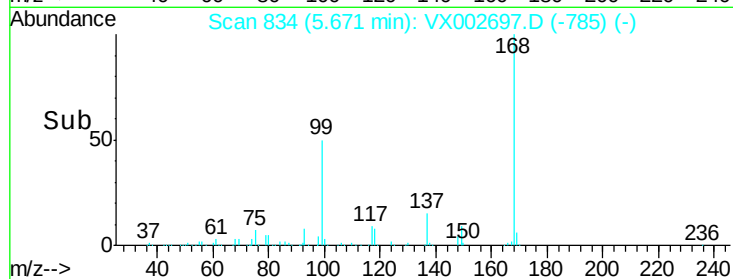
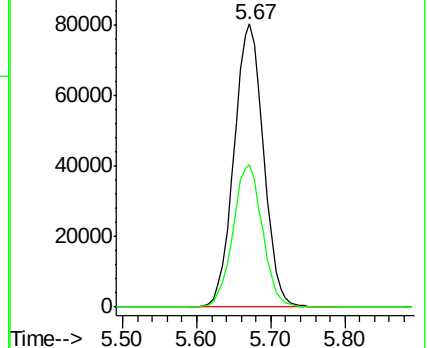
168 100

99 50.3 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.30 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002697.D

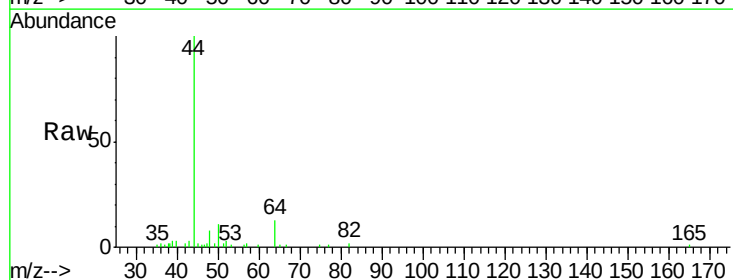
Acq: 19 Jun 2018 00:07

Tgt Ion: 50 Resp: 858

Ion Ratio Lower Upper

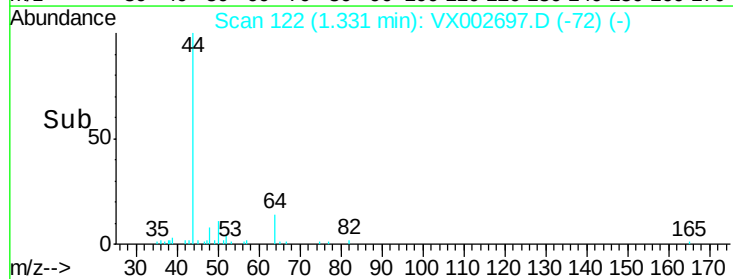
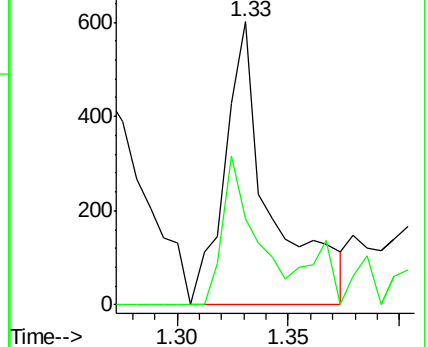
50 100

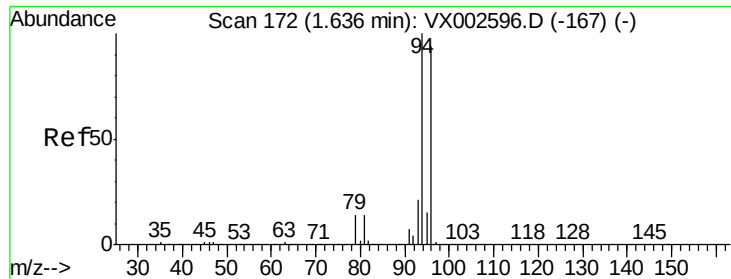
52 30.4 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.90 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002697.D

Acq: 19 Jun 2018 00:07

Instrument :

MSVOA_X

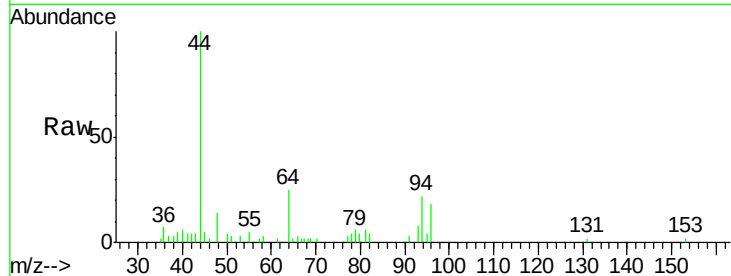
ClientSampled :

Tot Ion: 94 Resp: 1601

Ion Ratio Lower Upper

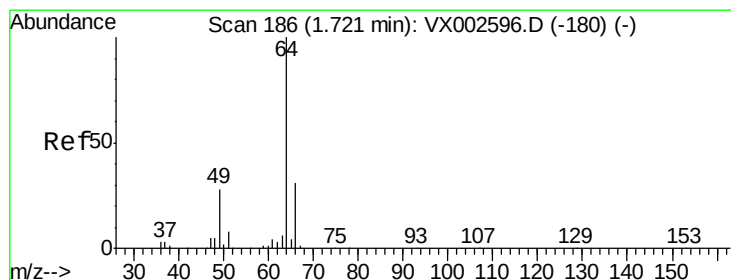
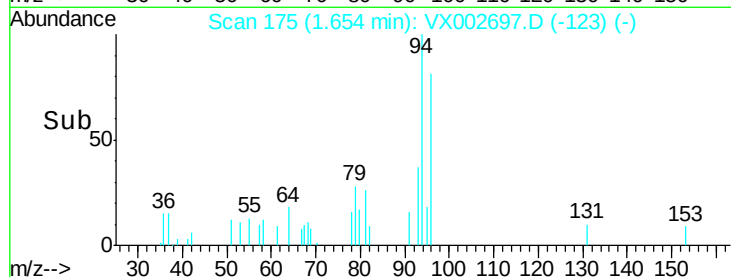
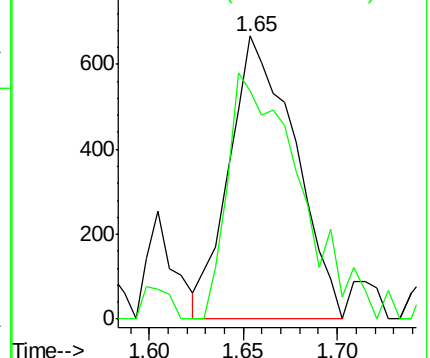
94 100

96 80.7 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.96 ug/l

RT: 1.71 min Scan# 184

Delta R.T. -0.01 min

Lab File: VX002697.D

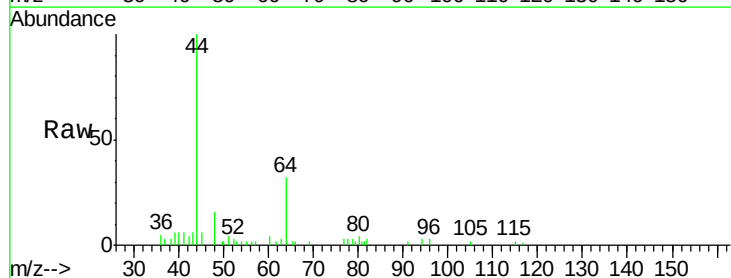
Acq: 19 Jun 2018 00:07

Tgt Ion: 64 Resp: 1847

Ion Ratio Lower Upper

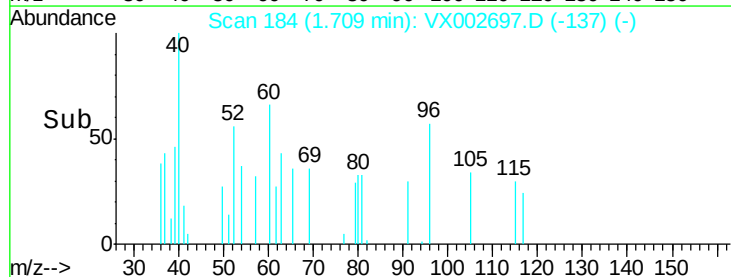
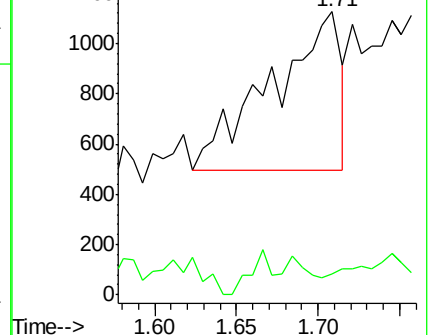
64 100

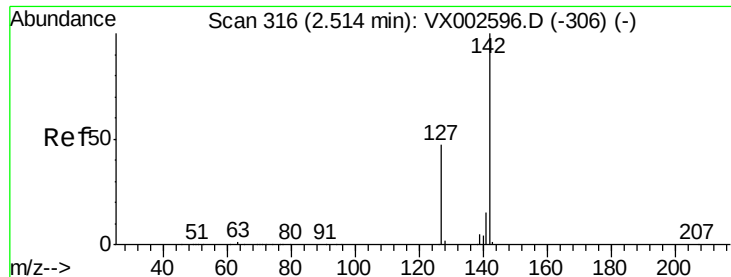
66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

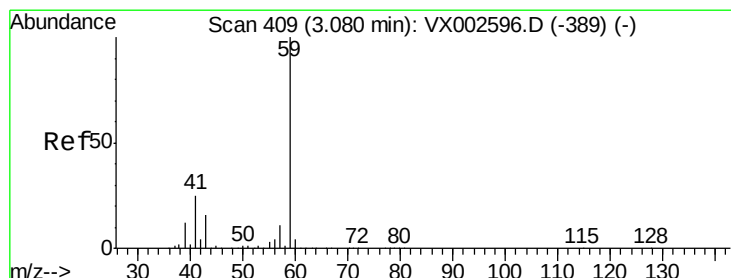
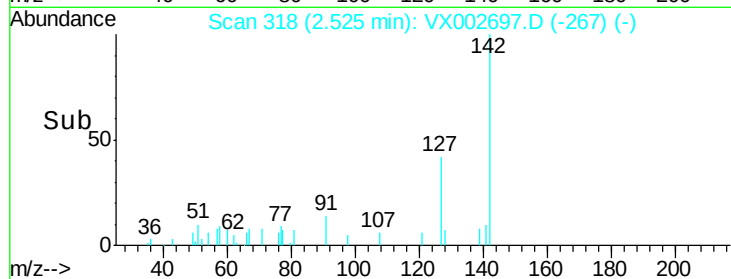
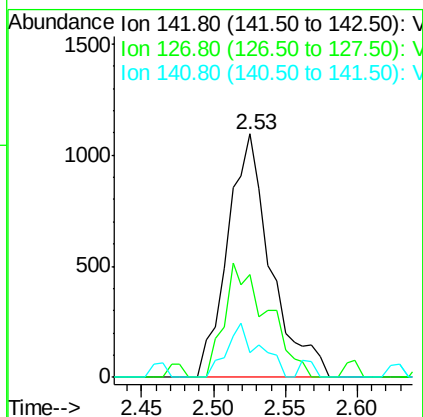
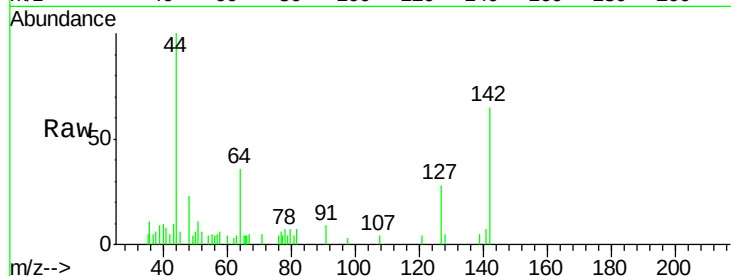




#10
Methvl Iodide
Concen: 5.75 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX002697.D
Acq: 19 Jun 2018 00:07

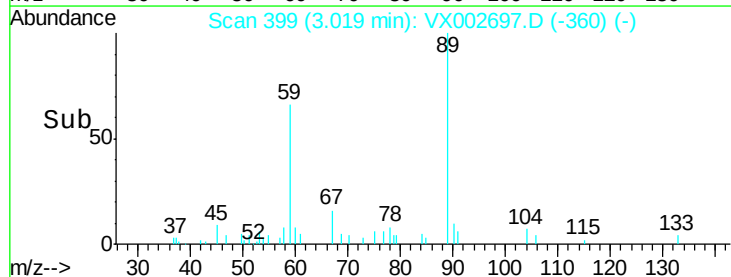
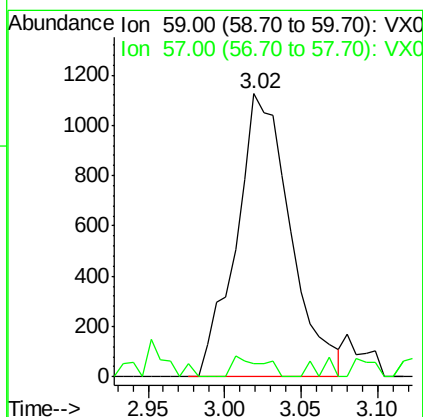
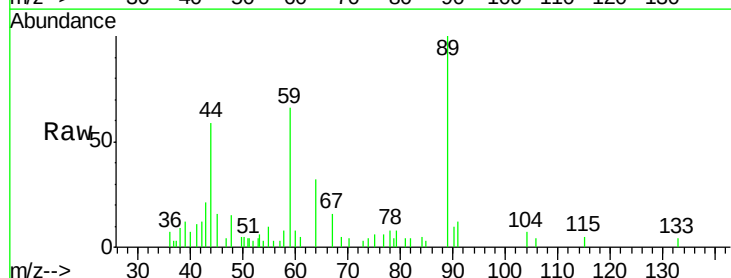
Instrument :
MSVOA_X
ClientSampled :

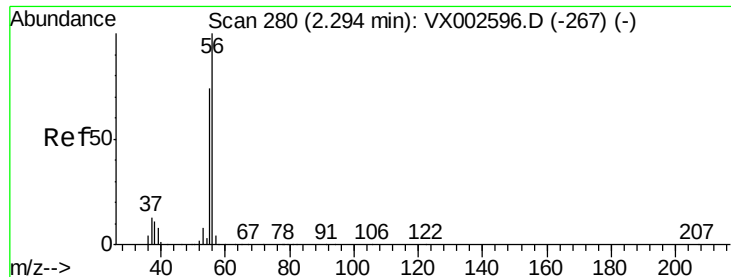
Tot Ion:142 Resp: 2293
Ion Ratio Lower Upper
142 100
127 47.1 36.6 55.0
141 16.9 11.3 16.9



#11
Tert butyl alcohol
Concen: 3.94 ug/l
RT: 3.02 min Scan# 399
Delta R.T. -0.06 min
Lab File: VX002697.D
Acq: 19 Jun 2018 00:07

Tgt Ion: 59 Resp: 2768
Ion Ratio Lower Upper
59 100
57 4.1 8.2 12.2#





#13

Acrolein

Concen: 7.63 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX002697.D

Acq: 19 Jun 2018 00:07

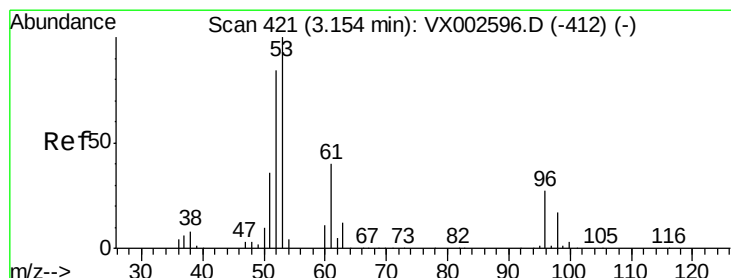
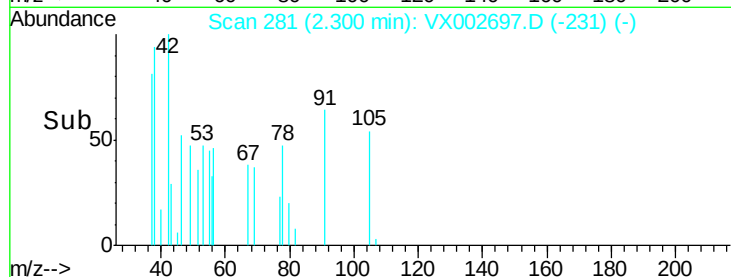
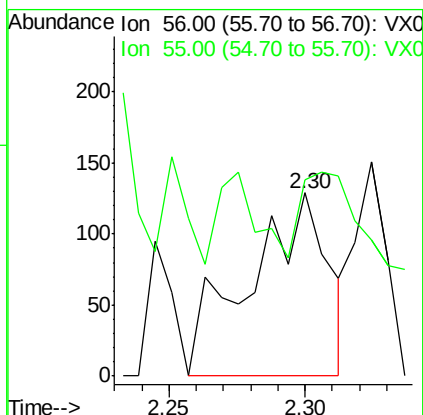
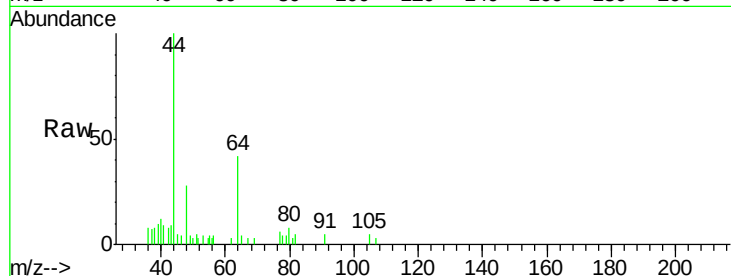
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 260

Ion Ratio Lower Upper

56 100

55 41.5 57.0 85.4#



#15

Acrylonitrile

Concen: 0.23 ug/l

RT: 3.17 min Scan# 424

Delta R.T. 0.02 min

Lab File: VX002697.D

Acq: 19 Jun 2018 00:07

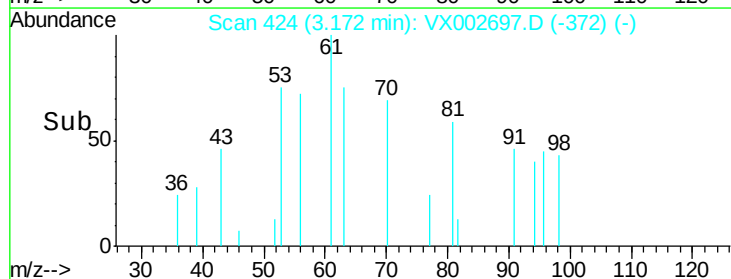
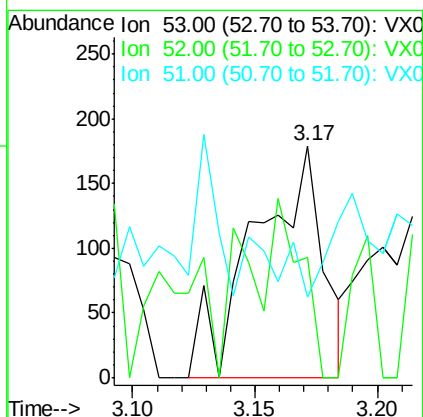
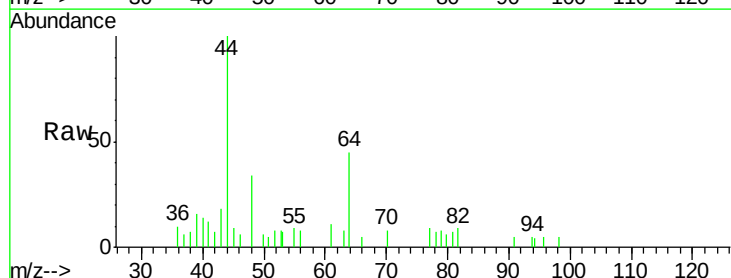
Tgt Ion: 53 Resp: 347

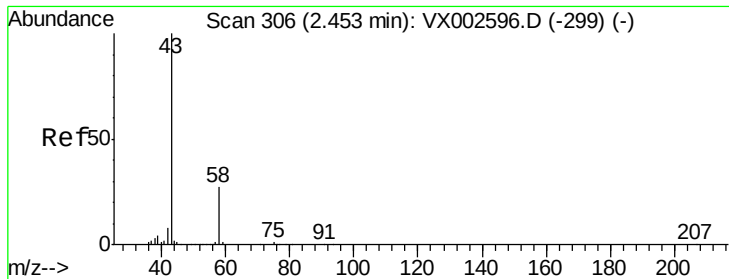
Ion Ratio Lower Upper

53 100

52 33.7 66.7 100.1#

51 0.0 29.9 44.9#





#16

Acetone

Concen: 3.46 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002697.D

Acq: 19 Jun 2018 00:07

Instrument :

MSVOA_X

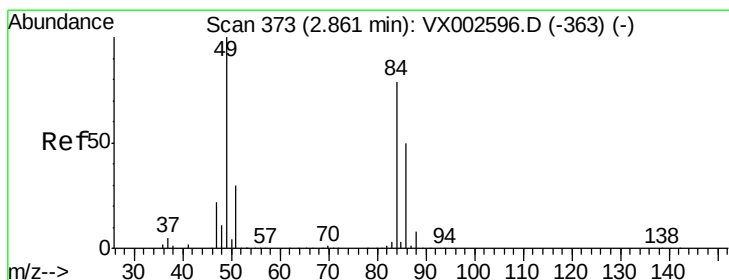
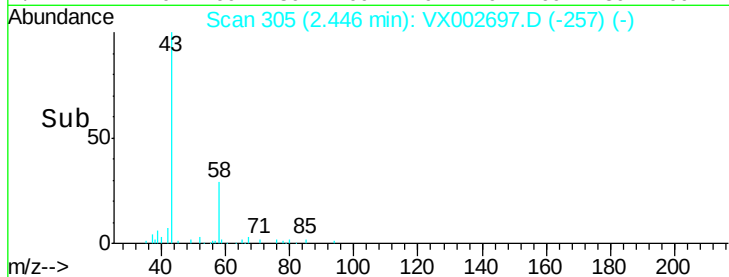
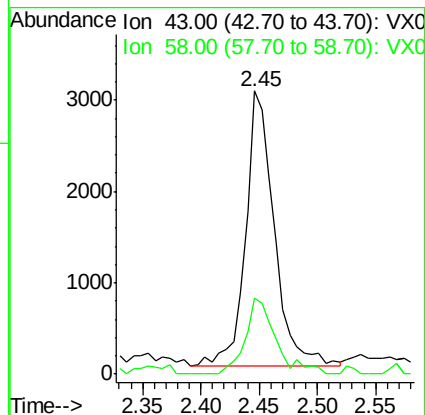
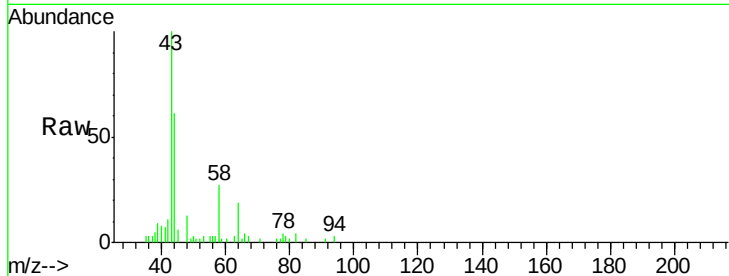
ClientSampleId :

Tot Ion: 43 Resp: 5195

Ion Ratio Lower Upper

43 100

58 27.8 22.1 33.1



#20

Methylene Chloride

Concen: 0.38 ug/l

RT: 2.86 min Scan# 373

Delta R.T. -0.00 min

Lab File: VX002697.D

Acq: 19 Jun 2018 00:07

Tgt Ion: 84 Resp: 1165

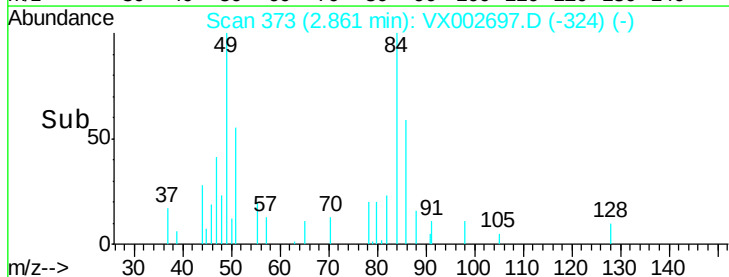
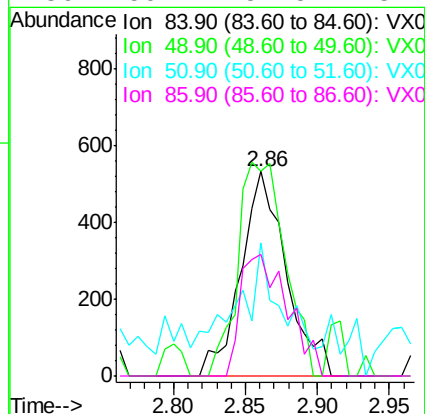
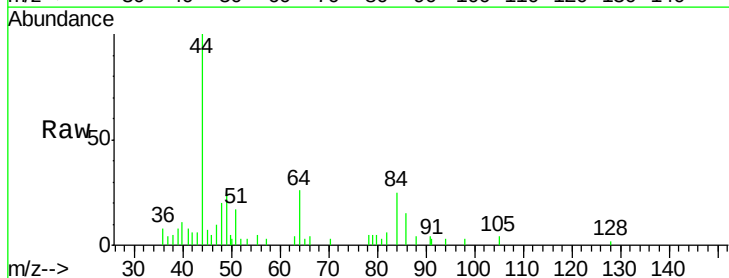
Ion Ratio Lower Upper

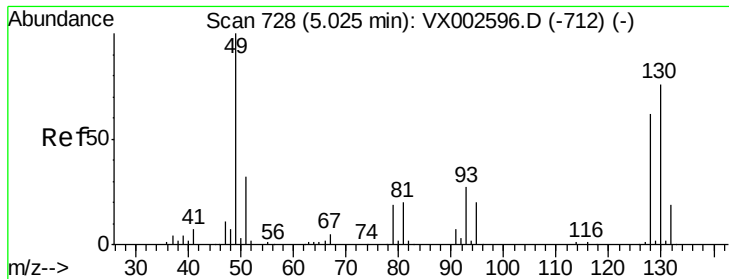
84 100

49 100.2 107.8 161.6#

51 55.1 32.8 49.2#

86 59.2 52.5 78.7





#28

Bromochloromethane

Concen: 2.02 ug/l

RT: 5.21 min Scan# 759

Delta R.T. 0.19 min

Lab File: VX002697.D

Acq: 19 Jun 2018 00:07

Instrument :

MSVOA_X

ClientSampleId :

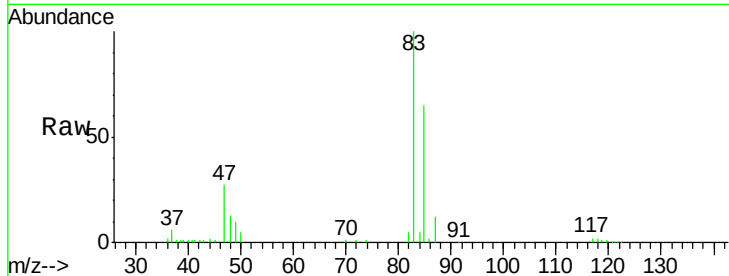
Tot Ion: 49 Resp: 4601

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

130 0.0 61.2 91.8#

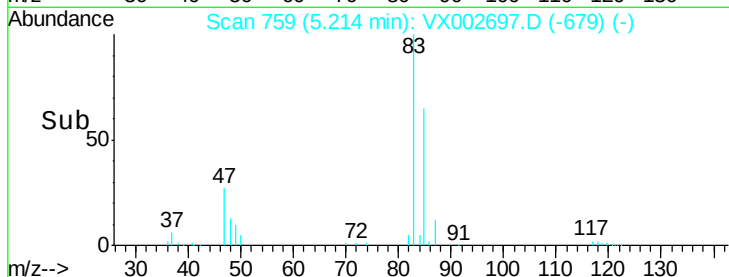


Abundance Ion 48.90 (48.60 to 49.60): VX0

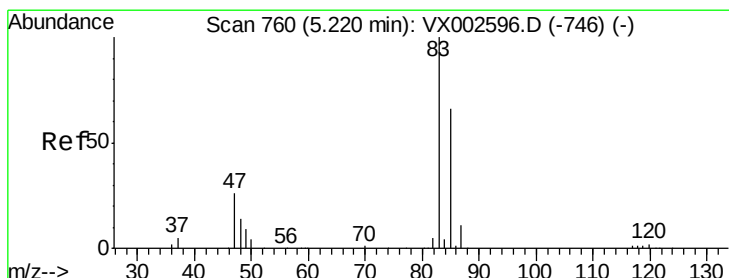
Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

Time-->



Time-->



#30

Chloroform

Concen: 11.02 ug/l

RT: 5.23 min Scan# 761

Delta R.T. 0.01 min

Lab File: VX002697.D

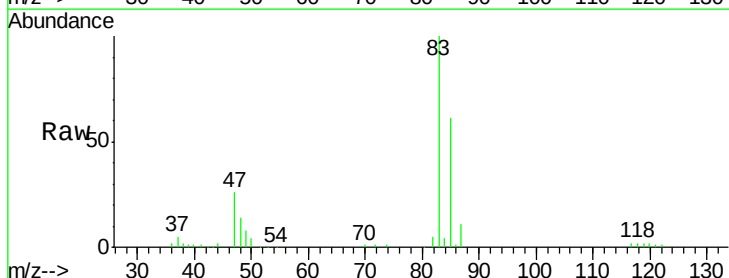
Acq: 19 Jun 2018 00:07

Tgt Ion: 83 Resp: 51807

Ion Ratio Lower Upper

83 100

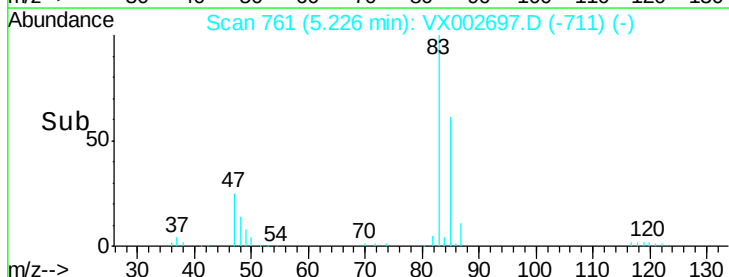
85 60.5 50.4 75.6



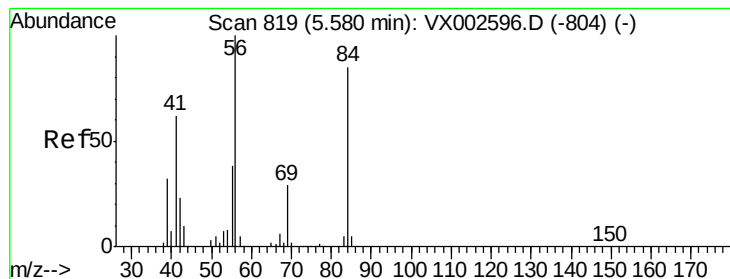
Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Time-->



Time-->



#31

Cyclohexane

Concen: 1.10 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX002697.D

Acq: 19 Jun 2018 00:07

Instrument :

MSVOA_X

ClientSampleId :

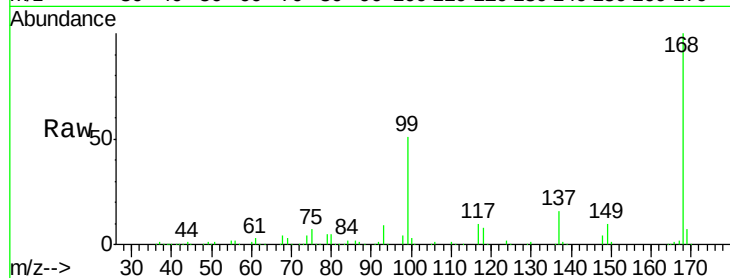
Tot Ion: 56 Resp: 4418

Ion Ratio Lower Upper

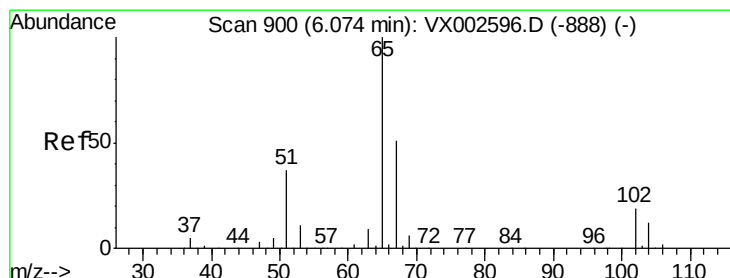
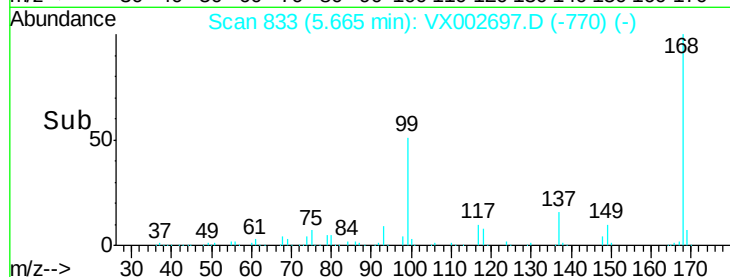
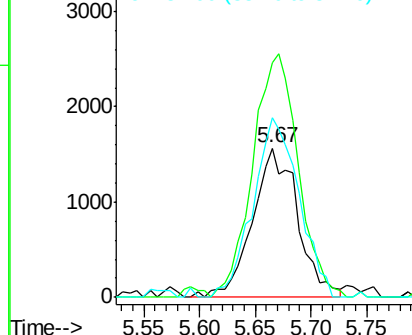
56 100

69 152.6 23.7 35.5#

84 120.7 64.1 96.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 43.68 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002697.D

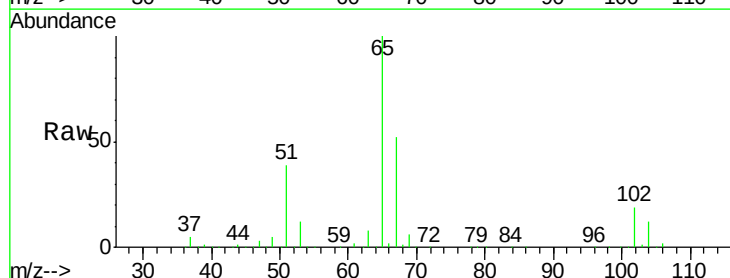
Acq: 19 Jun 2018 00:07

Tgt Ion: 65 Resp: 148545

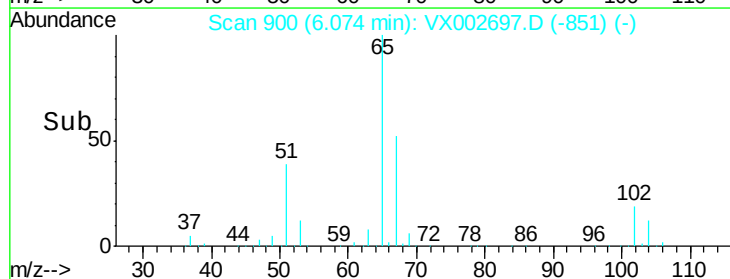
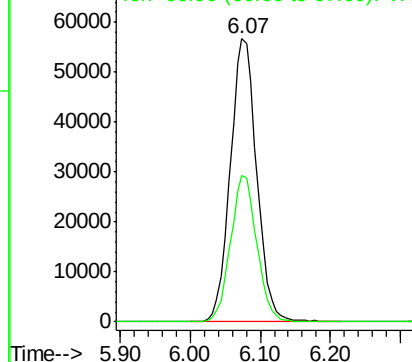
Ion Ratio Lower Upper

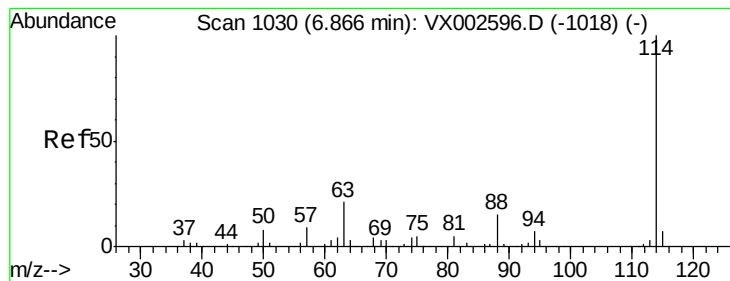
65 100

67 51.2 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002697.D

Acq: 19 Jun 2018 00:07

Instrument :
MSVOA_X
ClientSampleId :

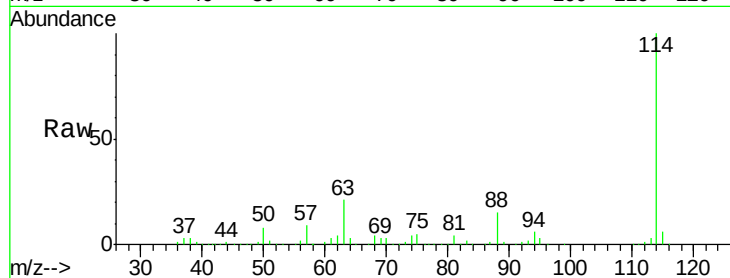
Tot Ion:114 Resp: 314234

Ion Ratio Lower Upper

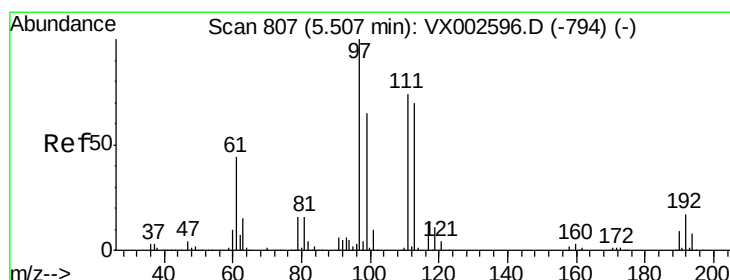
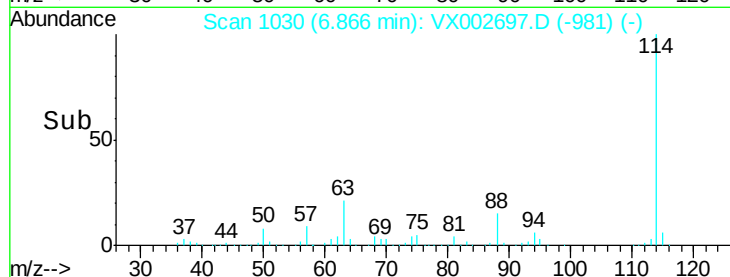
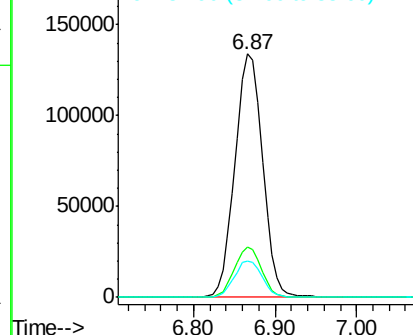
114 100

63 20.7 0.0 41.4

88 15.1 0.0 30.0



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: 47.31 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX002697.D

Acq: 19 Jun 2018 00:07

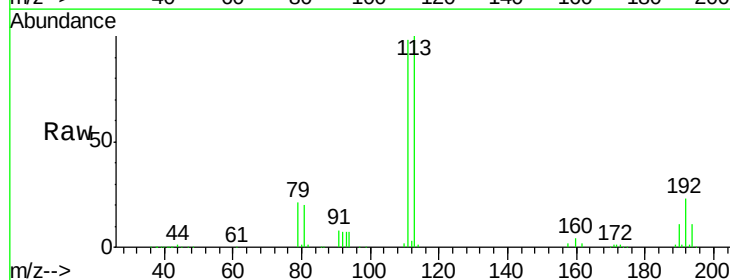
Tgt Ion:113 Resp: 118643

Ion Ratio Lower Upper

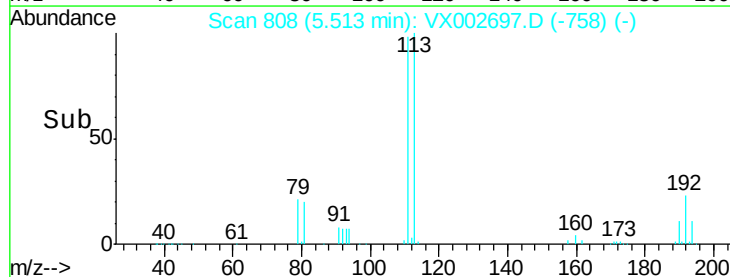
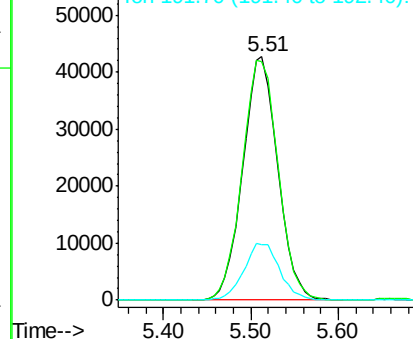
113 100

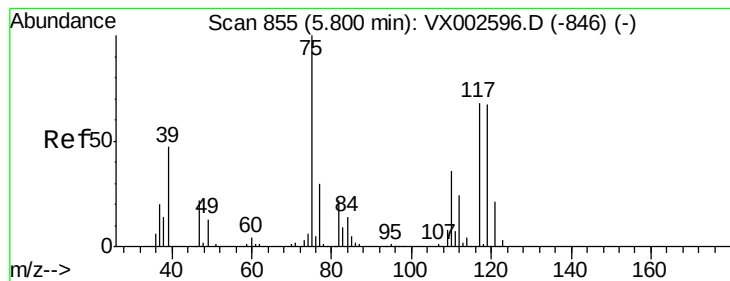
111 101.6 81.4 122.0

192 23.8 19.1 28.7



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: 4.62 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX002697.D

Acq: 19 Jun 2018 00:07

Instrument :

MSVOA_X

ClientSampleId :

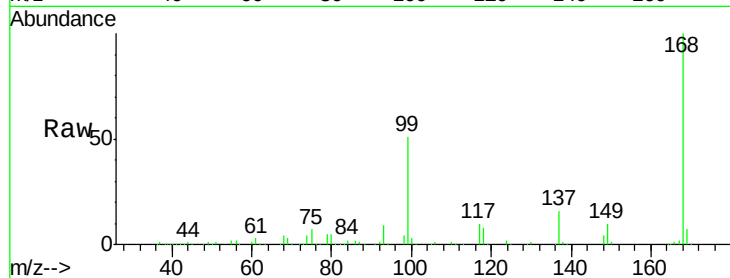
Tot Ion: 75 Resp: 15425

Ion Ratio Lower Upper

75 100

110 10.7 18.1 54.4#

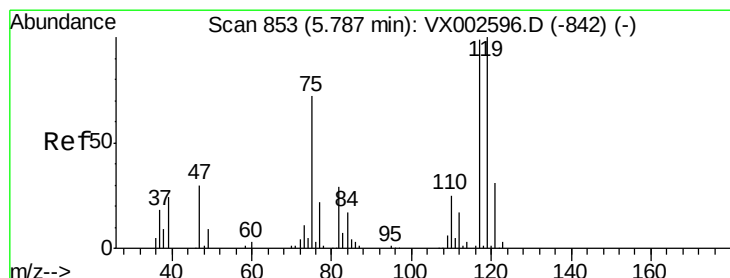
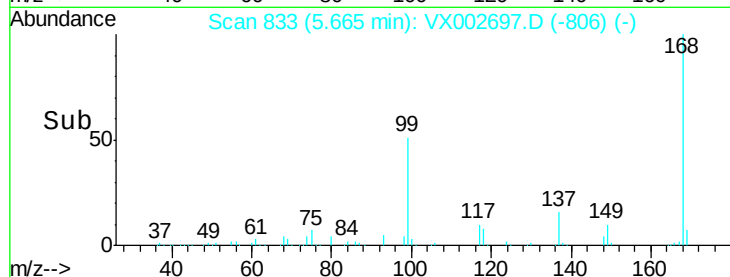
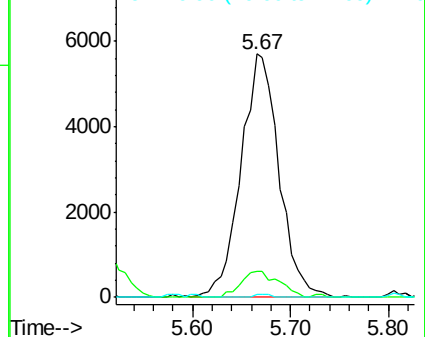
77 0.5 24.3 36.5#



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: 6.32 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002697.D

Acq: 19 Jun 2018 00:07

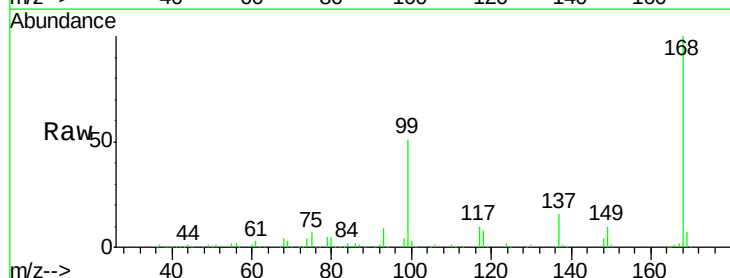
Tgt Ion: 117 Resp: 20987

Ion Ratio Lower Upper

117 100

119 4.2 77.4 116.0#

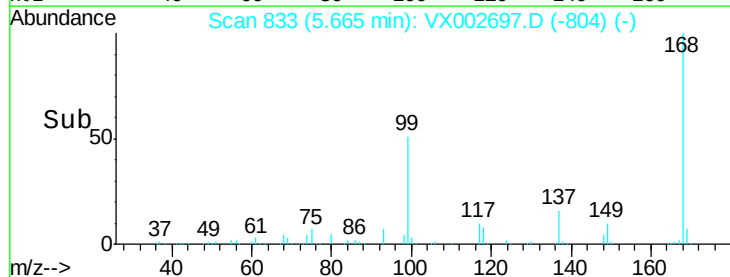
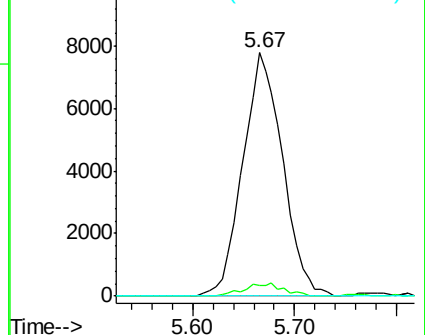
121 0.0 24.4 36.6#

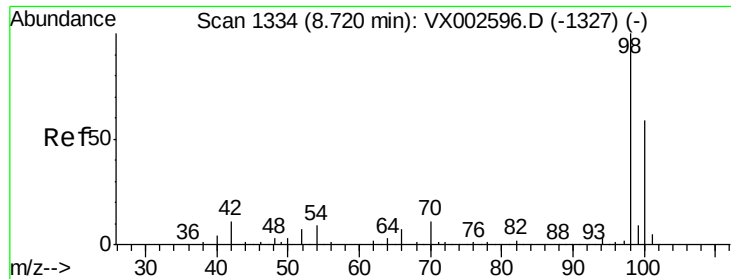


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 46.74 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002697.D

Acq: 19 Jun 2018 00:07

Instrument :

MSVOA_X

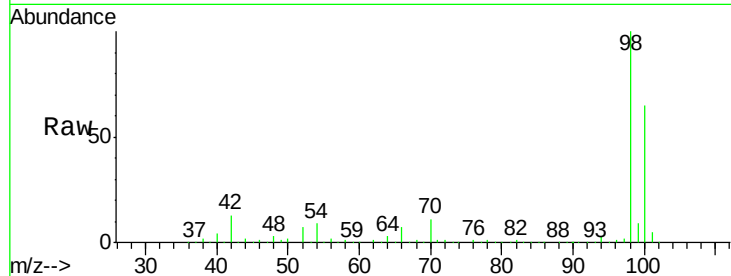
ClientSampleId :

Tot Ion: 98 Resp: 445056

Ion Ratio Lower Upper

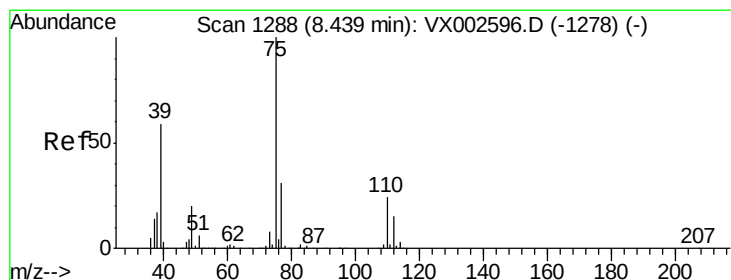
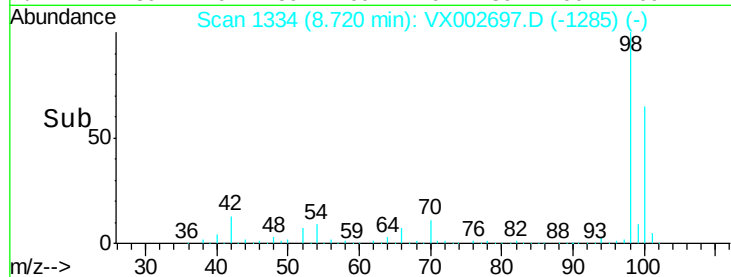
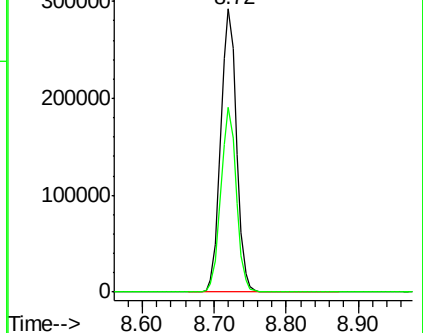
98 100

100 63.9 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#53

t-1,3-Dichloropropene

Concen: 2.40 ug/l

RT: 8.45 min Scan# 1289

Delta R.T. 0.01 min

Lab File: VX002697.D

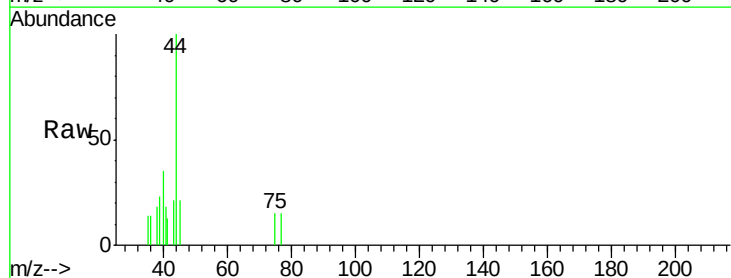
Acq: 19 Jun 2018 00:07

Tgt Ion: 75 Resp: 44

Ion Ratio Lower Upper

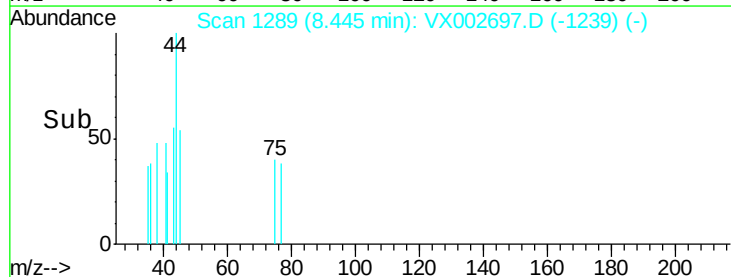
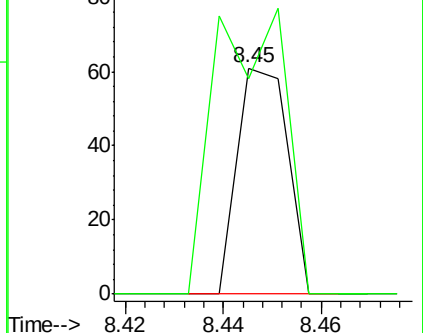
75 100

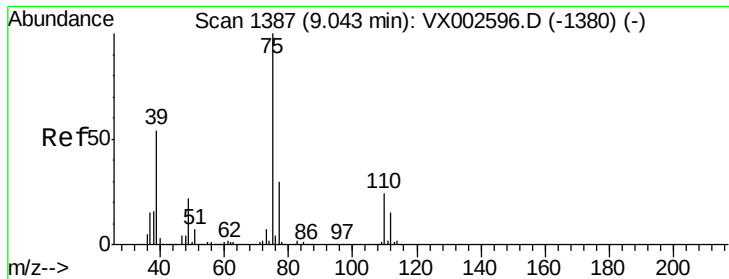
77 95.1 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0





#54

cis-1,3-Dichloropropene

Concen: 3.24 ug/l

RT: 9.05 min Scan# 1388

Delta R.T. 0.01 min

Lab File: VX002697.D

Acq: 19 Jun 2018 00:07

Instrument :

MSVOA_X

ClientSampled :

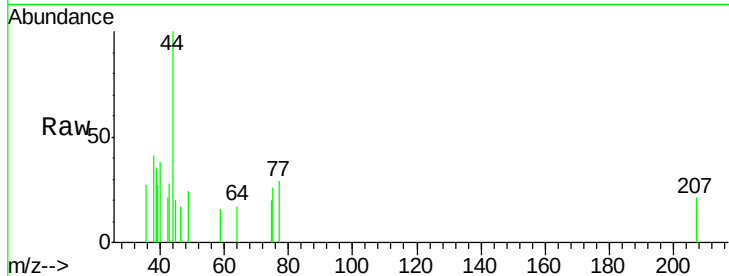
Tot Ion: 75 Resp: 119

Ion Ratio Lower Upper

75 100

77 63.9 24.8 37.2#

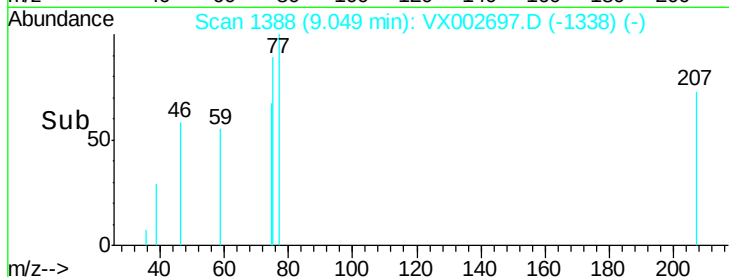
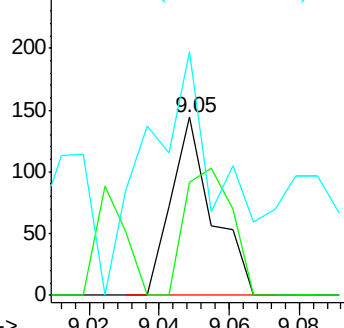
39 88.2 42.4 63.6#



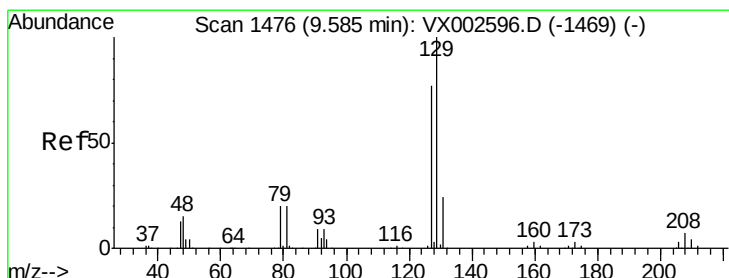
Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



Time-->



#60

Dibromochloromethane

Concen: 3.82 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.24 min

Lab File: VX002697.D

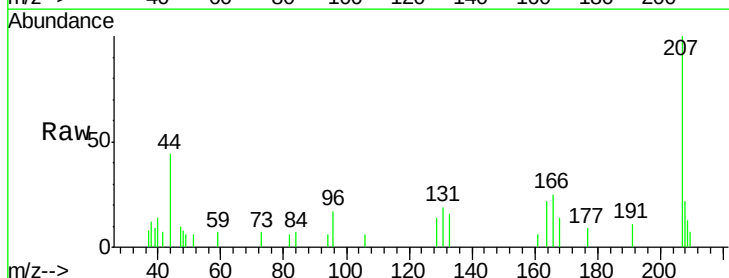
Acq: 19 Jun 2018 00:07

Tgt Ion:129 Resp: 197

Ion Ratio Lower Upper

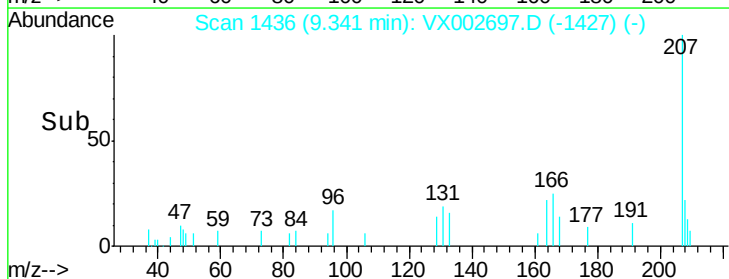
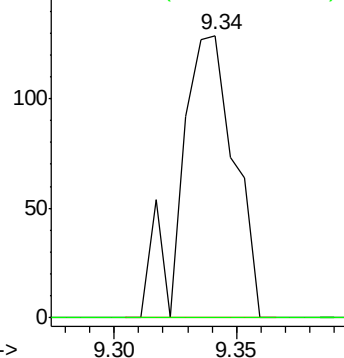
129 100

127 0.0 38.5 115.3#

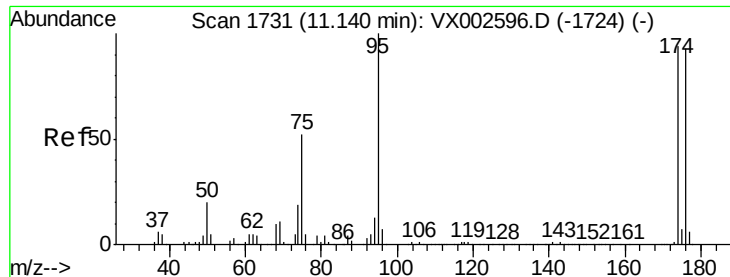


Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



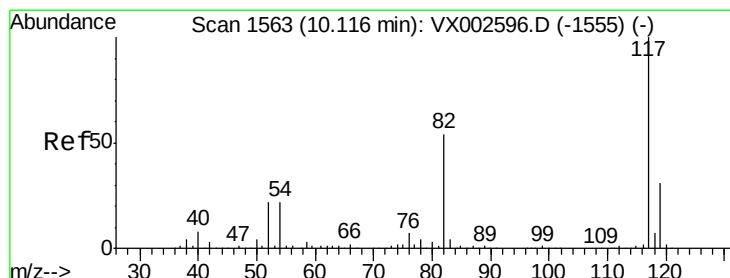
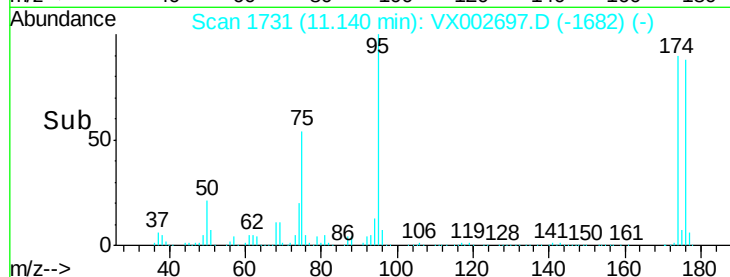
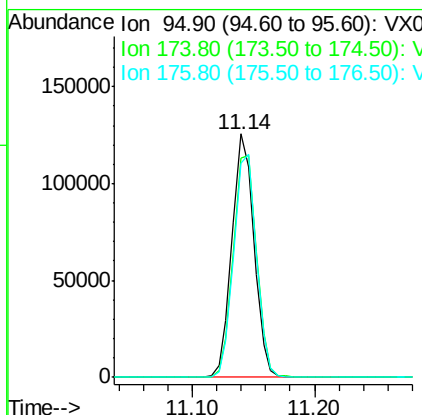
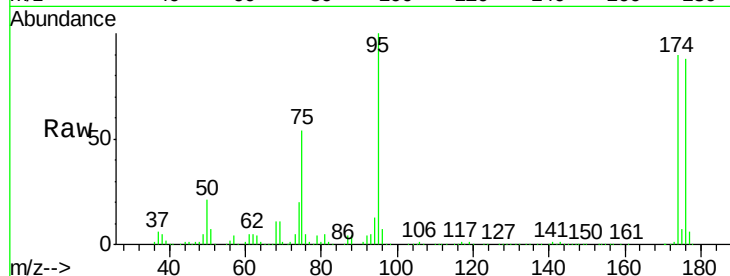
Time-->



#62
4-Bromofluorobenzene
Concen: 43.24 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002697.D
Acq: 19 Jun 2018 00:07

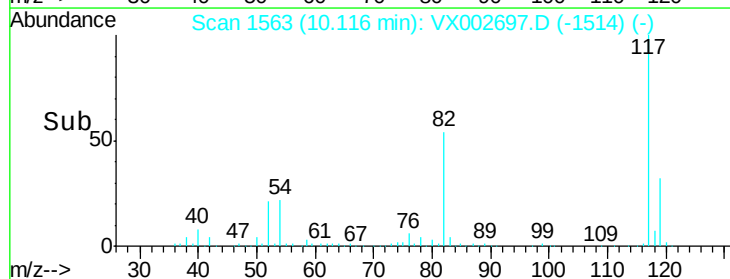
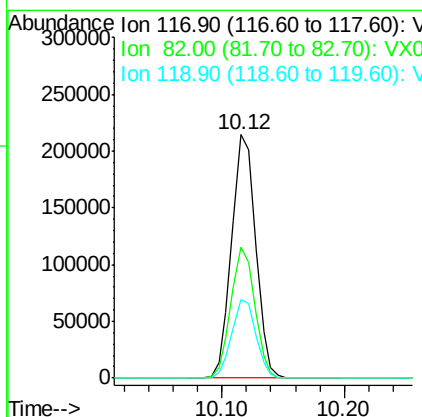
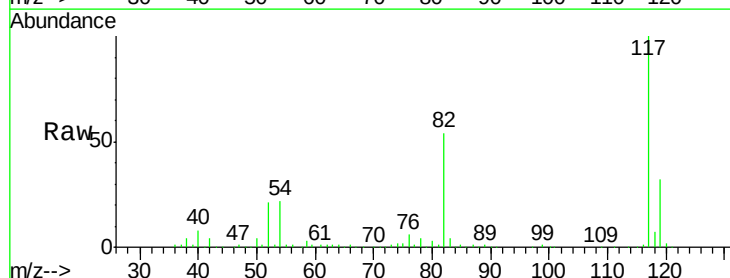
Instrument :
MSVOA_X
ClientSampled :

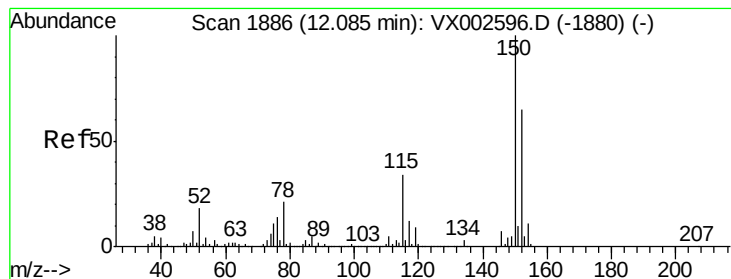
Tot Ion: 95 Resp: 156024
Ion Ratio Lower Upper
95 100
174 96.4 0.0 187.4
176 94.2 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002697.D
Acq: 19 Jun 2018 00:07

Tgt Ion: 117 Resp: 291554
Ion Ratio Lower Upper
117 100
82 53.8 45.0 67.4
119 32.5 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002697.D

Acq: 19 Jun 2018 00:07

Instrument :

MSVOA_X

ClientSampleId :

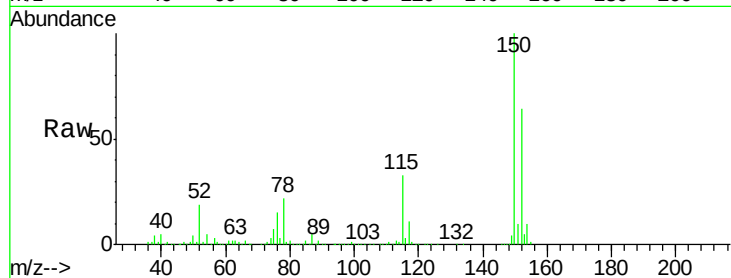
Tot Ion:152 Resp: 164460

Ion Ratio Lower Upper

152 100

115 55.0 40.1 120.2

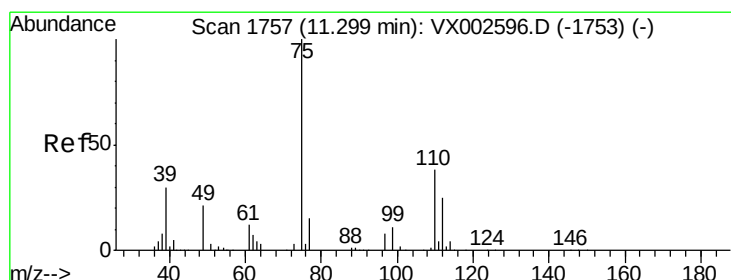
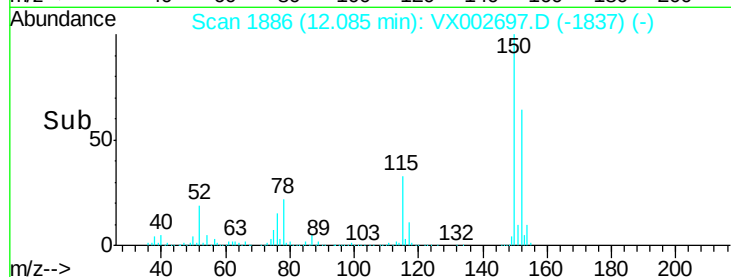
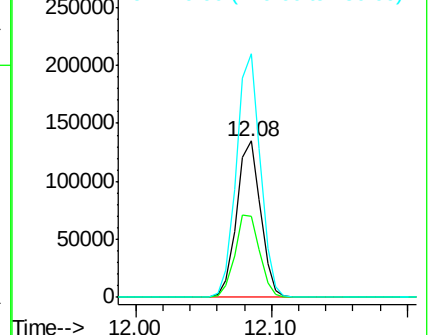
150 156.8 0.0 347.2



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: 26.72 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002697.D

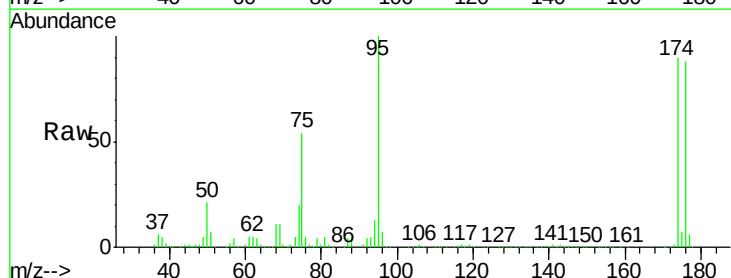
Acq: 19 Jun 2018 00:07

Tgt Ion: 75 Resp: 82921

Ion Ratio Lower Upper

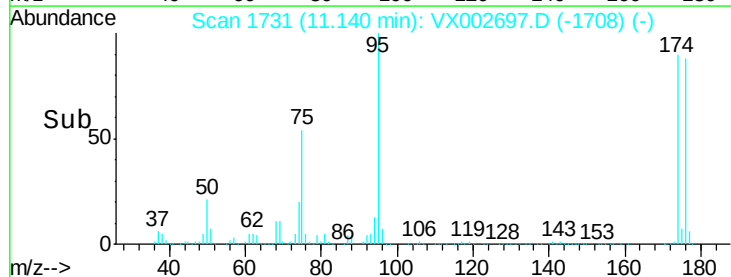
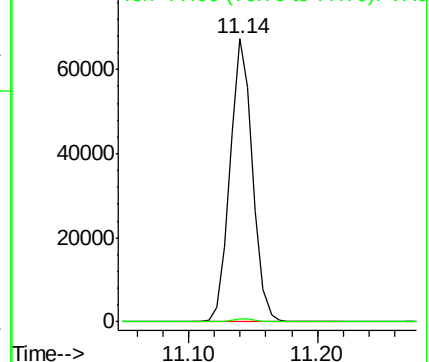
75 100

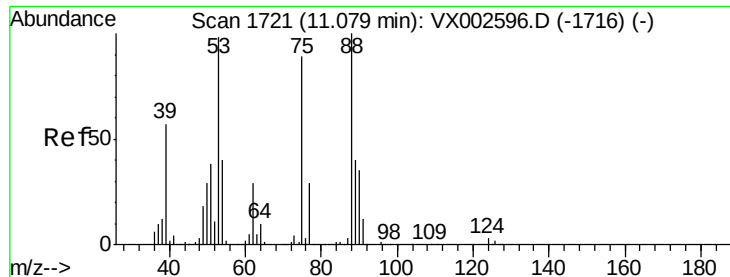
77 1.3 22.8 68.3#



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: 82.53 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002697.D

Acq: 19 Jun 2018 00:07

Instrument :

MSVOA_X

ClientSampleId :

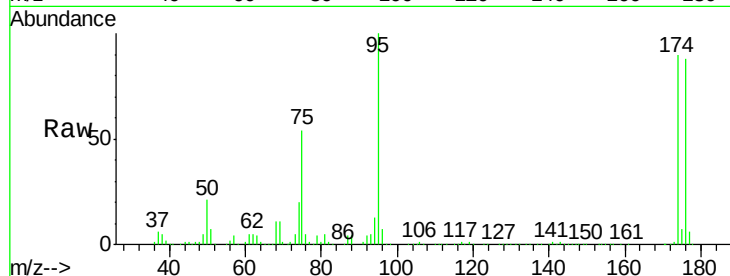
Tot Ion: 75 Resp: 82921

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

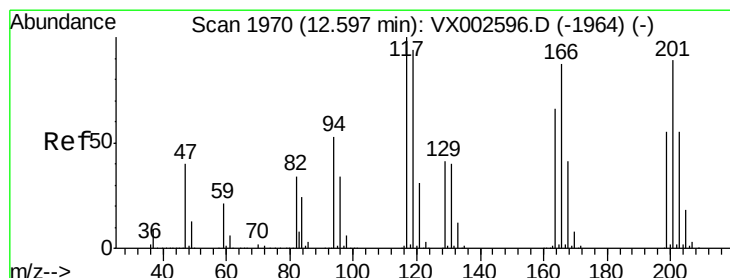
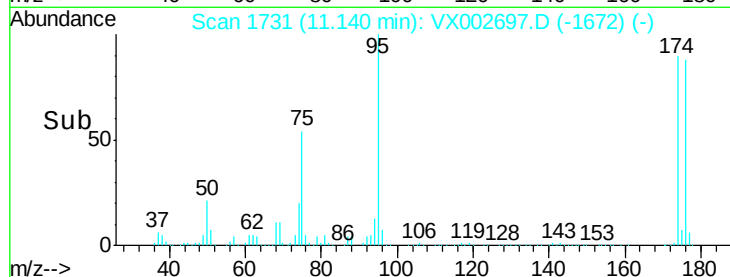
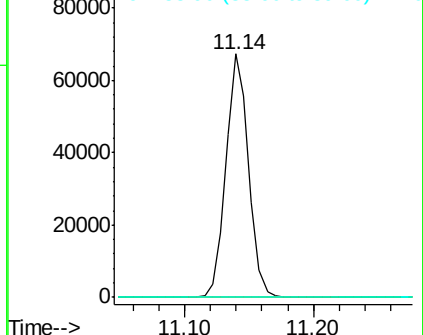
89 0.1 38.2 57.2#



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: 2.67 ug/l

RT: 12.60 min Scan# 1970

Delta R.T. -0.00 min

Lab File: VX002697.D

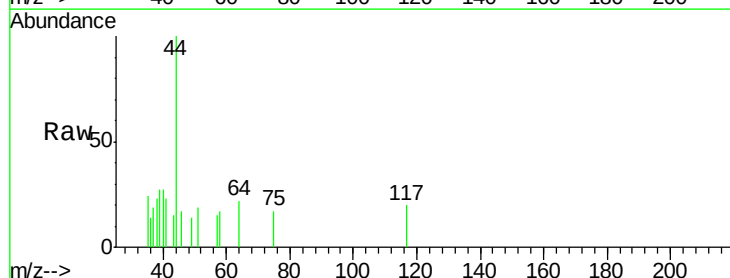
Acq: 19 Jun 2018 00:07

Tgt Ion: 117 Resp: 75

Ion Ratio Lower Upper

117 100

201 0.0 49.0 147.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

