

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062018\
 Data File : VX002762.D
 Acq On : 21 Jun 2018 01:12
 Operator : JC/MD
 Sample : PB110408ZHE#01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 21 05:56:01 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	220781	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	309627	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	290017	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	167507	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	149491	44.56	ug/l	0.00
Spiked Amount			Recovery	=	89.12%	
35) Dibromofluoromethane	5.51	113	121421	49.14	ug/l	0.00
Spiked Amount			Recovery	=	98.28%	
50) Toluene-d8	8.72	98	445859	47.52	ug/l	0.00
Spiked Amount			Recovery	=	95.04%	
62) 4-Bromofluorobenzene	11.14	95	155845	43.83	ug/l	0.00
Spiked Amount			Recovery	=	87.66%	

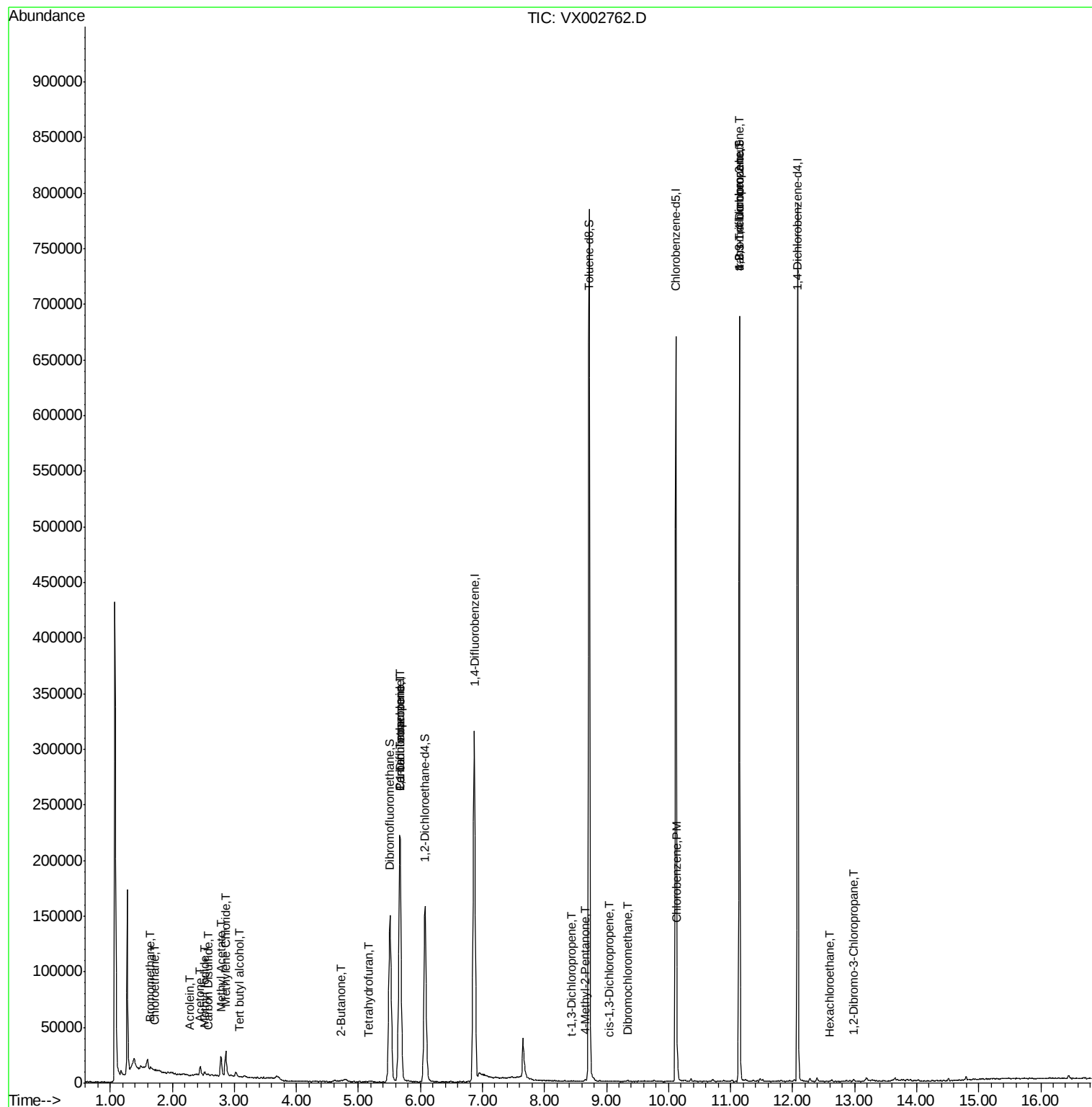
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1722	0.99	ug/l #	79
6) Chloroethane	1.72	64	747	0.39	ug/l #	68
10) Methyl Iodide	2.52	142	3606	6.09	ug/l	95
11) Tert butyl alcohol	3.09	59	181	0.26	ug/l #	73
13) Acrolein	2.29	56	206	7.48	ug/l #	1
16) Acetone	2.45	43	9109	6.15	ug/l	94
17) Carbon Disulfide	2.57	76	2366	0.40	ug/l #	82
18) Methyl Acetate	2.78	43	21811	5.53	ug/l	98
20) Methylene Chloride	2.86	84	10236	3.37	ug/l	96
25) 2-Butanone	4.72	43	2140	1.10	ug/l #	82
29) Tetrahydrofuran	5.17	42	607	0.48	ug/l	96
36) 1,1-Dichloropropene	5.67	75	15264	4.64	ug/l #	51
38) Carbon Tetrachloride	5.67	117	21016	6.42	ug/l #	15
51) 4-Methyl-2-Pentanone	8.65	43	1206	0.30	ug/l #	77
53) t-1,3-Dichloropropene	8.44	75	143	2.43	ug/l #	43
54) cis-1,3-Dichloropropene	9.04	75	181	3.26	ug/l #	81
60) Dibromochloromethane	9.34	129	209	3.83	ug/l #	11
65) Chlorobenzene	10.14	112	4173	0.59	ug/l	100
76) 1,2,3-Trichloropropane	11.14	75	82806	26.20	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.14	75	82806	81.00	ug/l #	7
90) Hexachloroethane	12.60	117	53	2.66	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	12.98	75	384	0.55	ug/l #	1

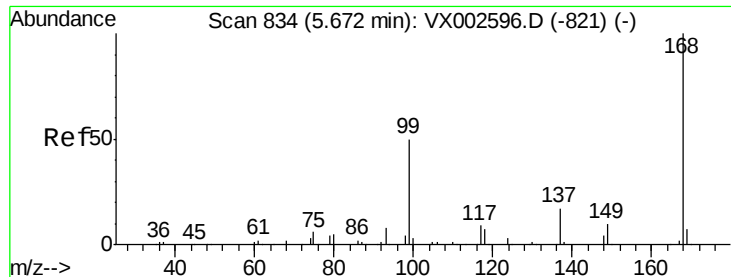
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX062018\
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Instrument :
MSVOA_X
ClientSampleId :

Quant Time: Jun 21 05:56:01 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:37:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX002762.D

Acq: 21 Jun 2018 01:12

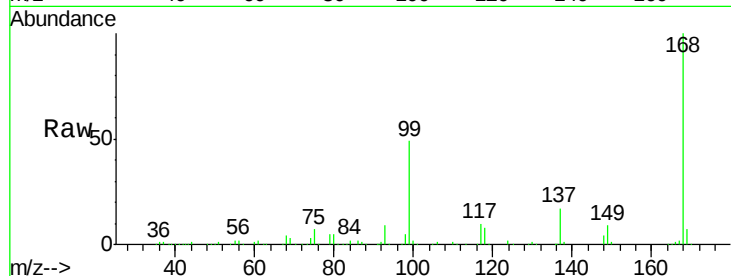
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 220781

Ion Ratio Lower Upper

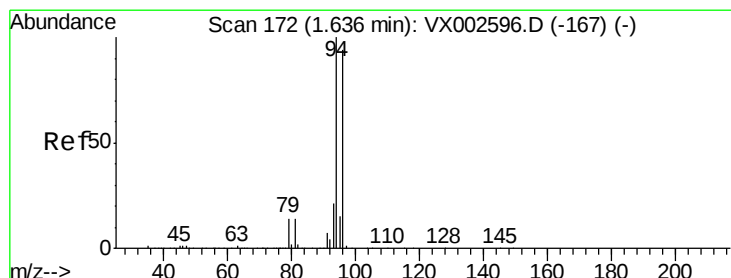
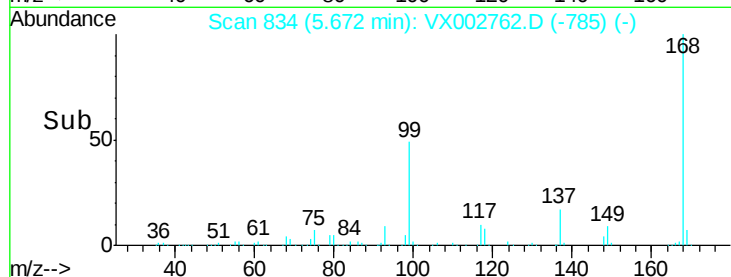
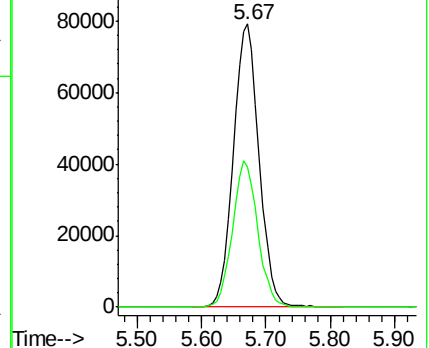
168 100

99 49.5 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.99 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002762.D

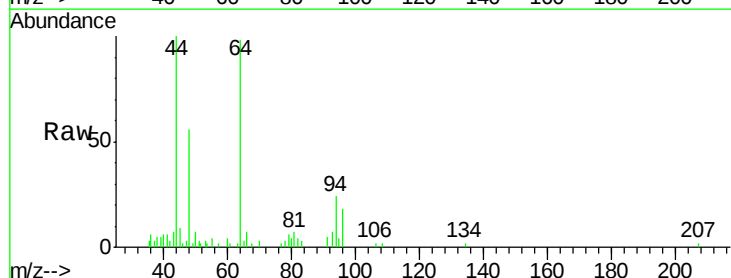
Acq: 21 Jun 2018 01:12

Tgt Ion: 94 Resp: 1722

Ion Ratio Lower Upper

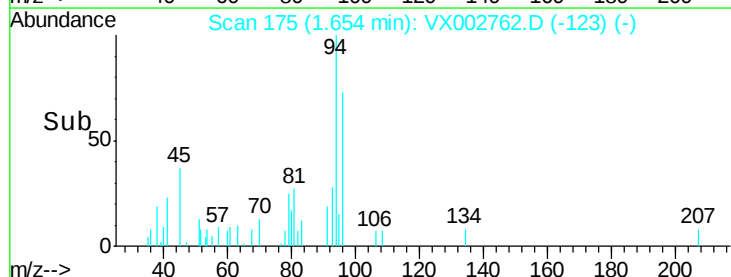
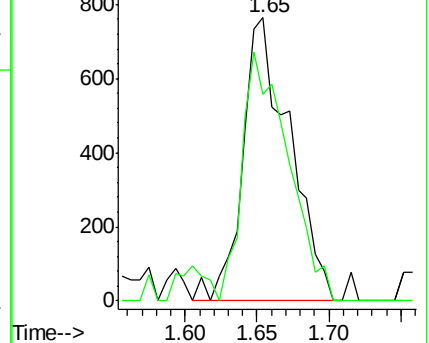
94 100

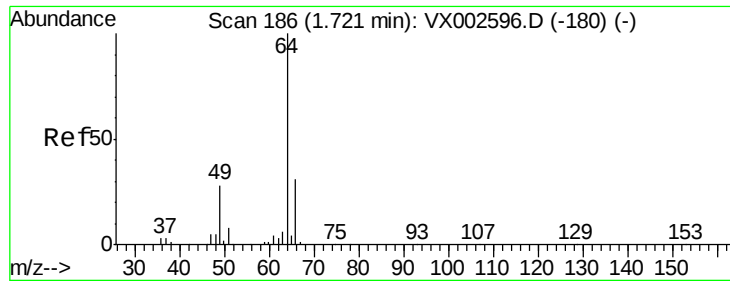
96 73.0 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.39 ug/l

RT: 1.72 min Scan# 186

Delta R.T. 0.00 min

Lab File: VX002762.D

Acq: 21 Jun 2018 01:12

Instrument :

MSVOA_X

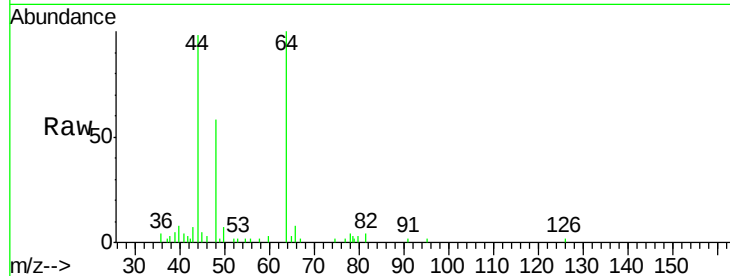
ClientSampleId :

Tot Ion: 64 Resp: 747

Ion Ratio Lower Upper

64 100

66 14.1 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.72

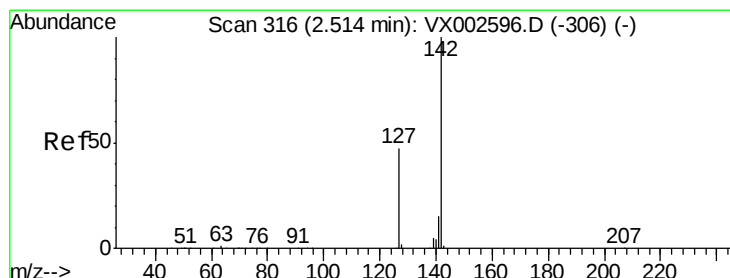
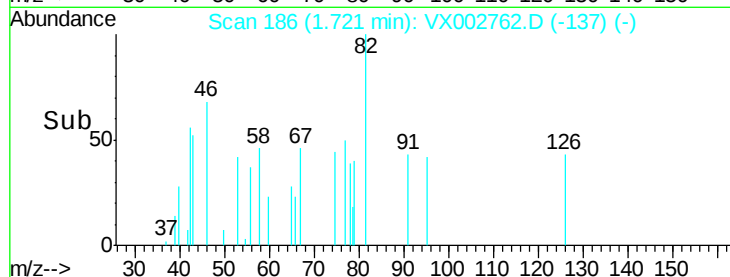
3000

2000

1000

0

Time--> 1.70 1.72 1.74 1.76



#10

Methyl Iodide

Concen: 6.09 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002762.D

Acq: 21 Jun 2018 01:12

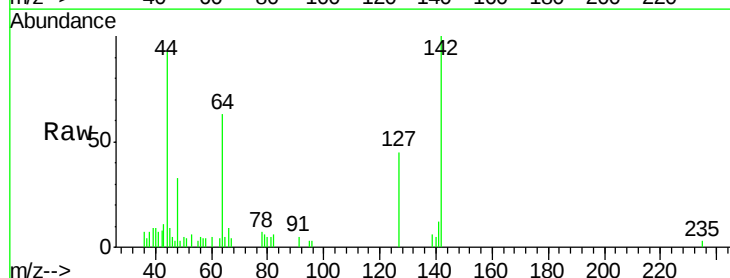
Tgt Ion:142 Resp: 3606

Ion Ratio Lower Upper

142 100

127 48.8 36.6 55.0

141 16.6 11.3 16.9



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

2500

2000

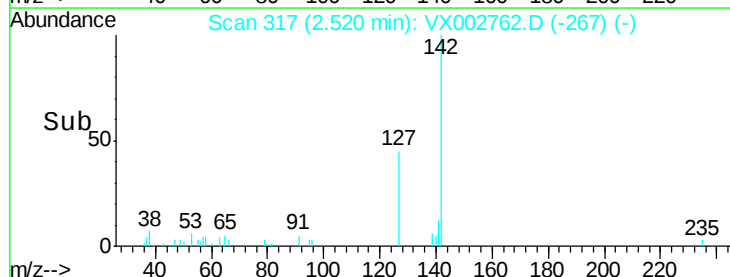
1500

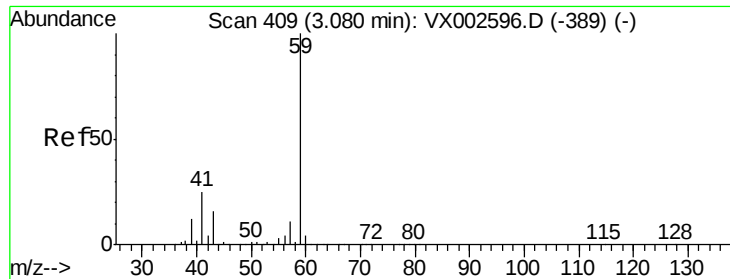
1000

500

0

Time--> 2.45 2.50 2.55 2.60

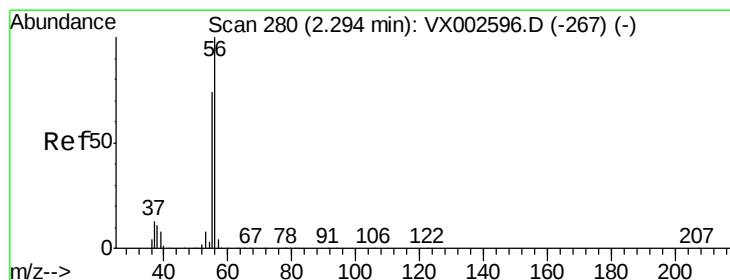
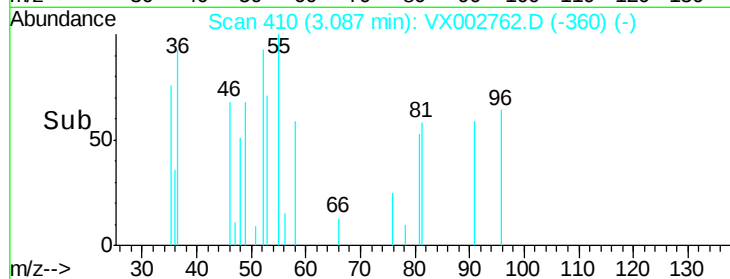
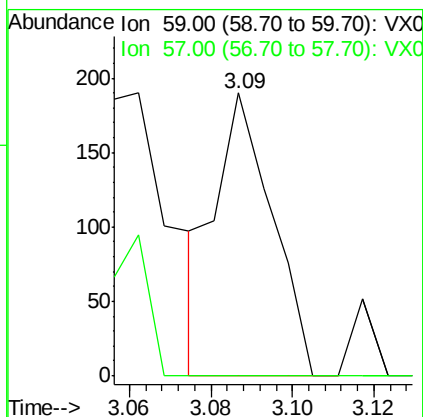
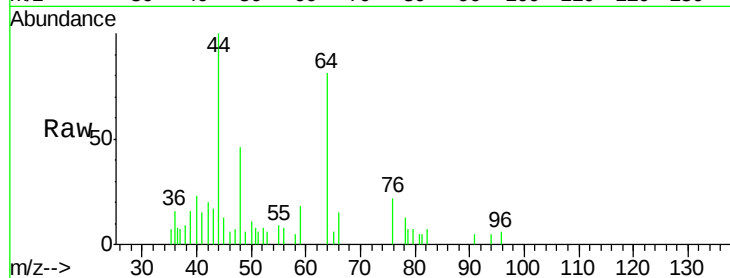




#11
Tert butvl alcohol
Concen: 0.26 ug/l
RT: 3.09 min Scan# 410
Delta R.T. 0.01 min
Lab File: VX002762.D
Acq: 21 Jun 2018 01:12

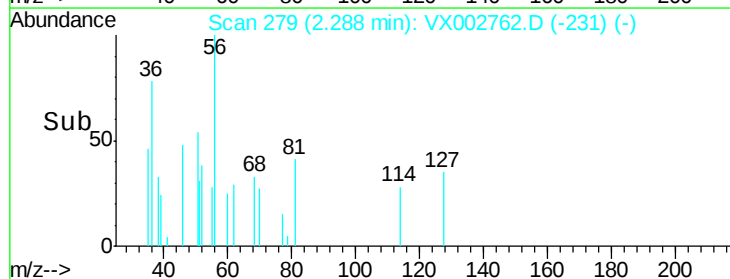
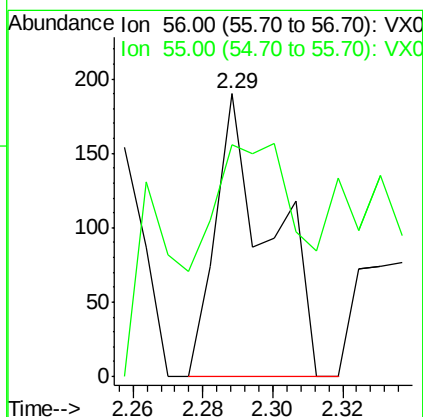
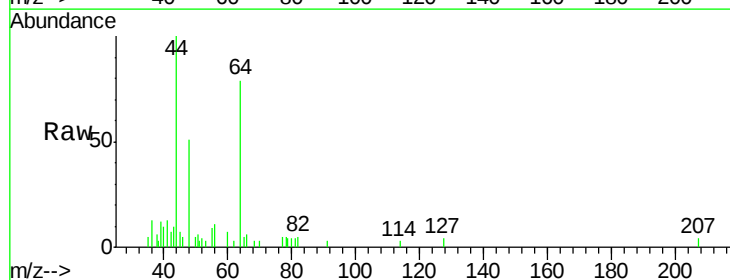
Instrument :
MSVOA_X
ClientSampled :

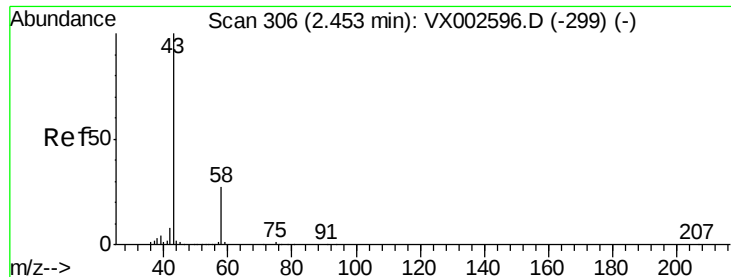
Tot Ion: 59 Resp: 181
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#13
Acrolein
Concen: 7.48 ug/l
RT: 2.29 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX002762.D
Acq: 21 Jun 2018 01:12

Tgt Ion: 56 Resp: 206
Ion Ratio Lower Upper
56 100
55 183.5 57.0 85.4#





#16

Acetone

Concen: 6.15 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002762.D

Acq: 21 Jun 2018 01:12

Instrument :

MSVOA_X

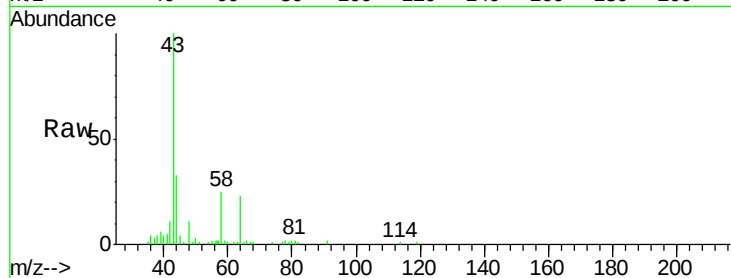
ClientSampleId :

Tot Ion: 43 Resp: 9109

Ion Ratio Lower Upper

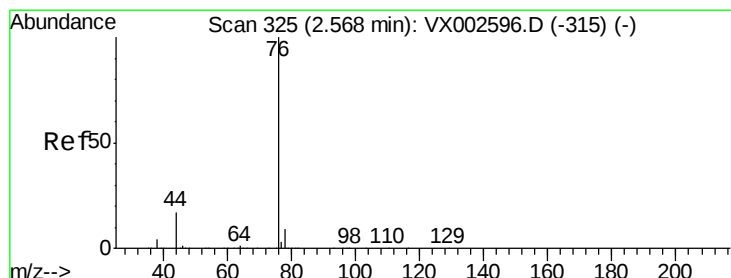
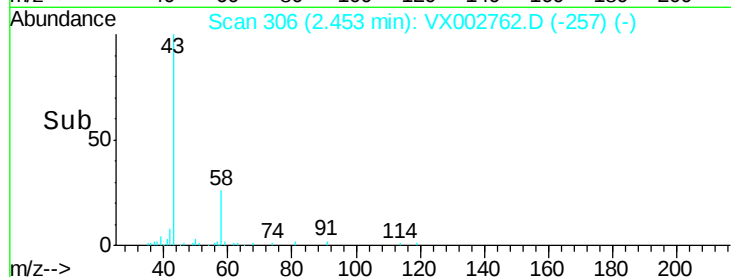
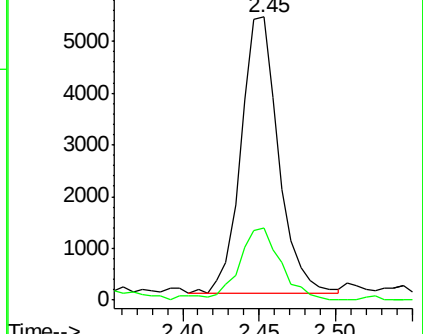
43 100

58 24.7 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.40 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX002762.D

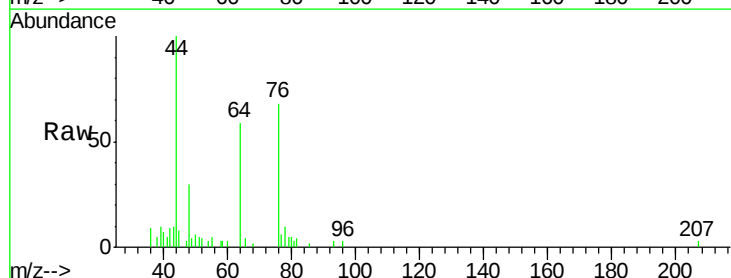
Acq: 21 Jun 2018 01:12

Tgt Ion: 76 Resp: 2366

Ion Ratio Lower Upper

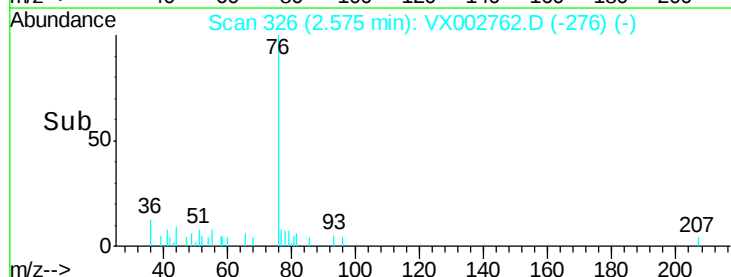
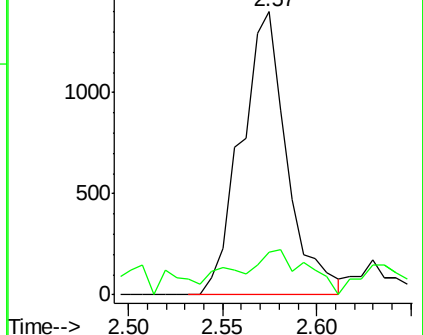
76 100

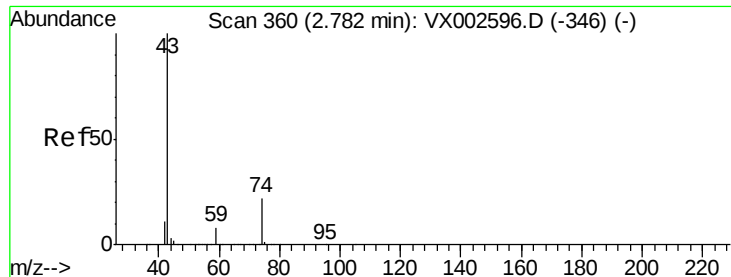
78 15.1 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

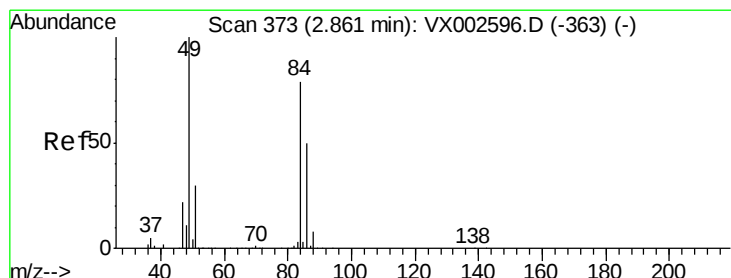
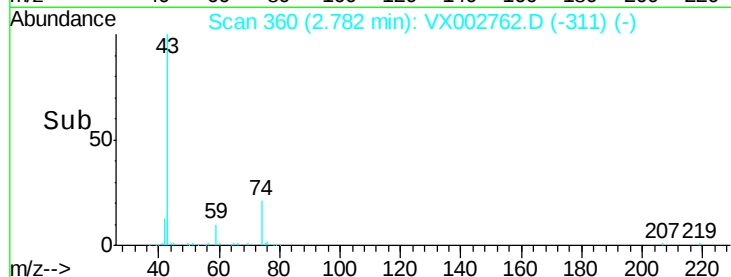
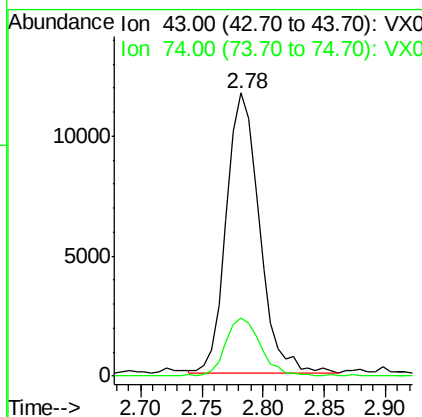
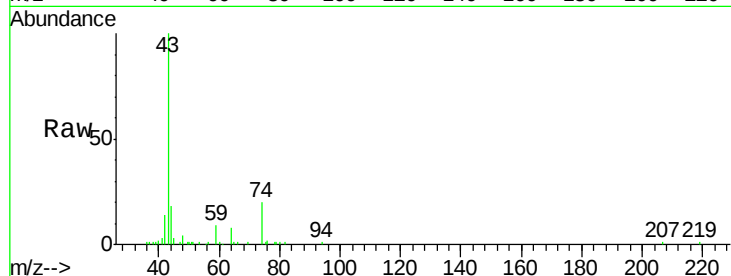




#18
Methvl Acetate
Concen: 5.53 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.00 min
Lab File: VX002762.D
Acq: 21 Jun 2018 01:12

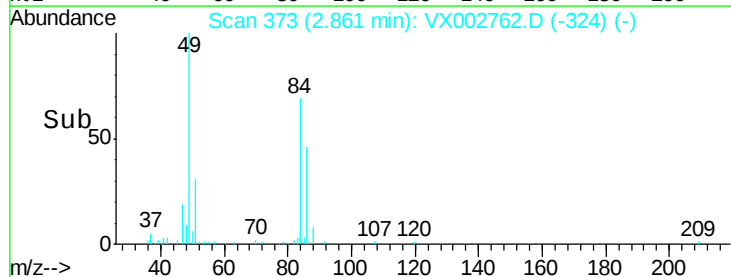
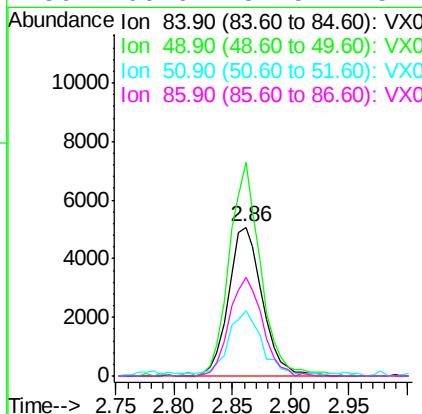
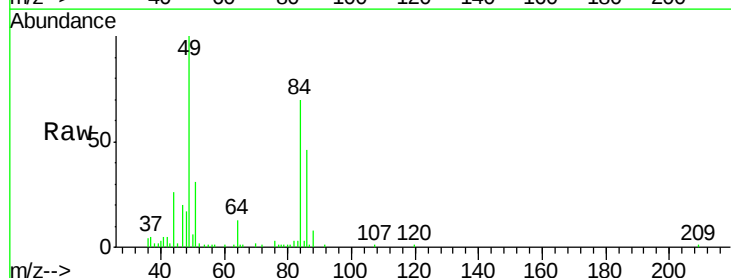
Instrument :
MSVOA_X
ClientSampleId :

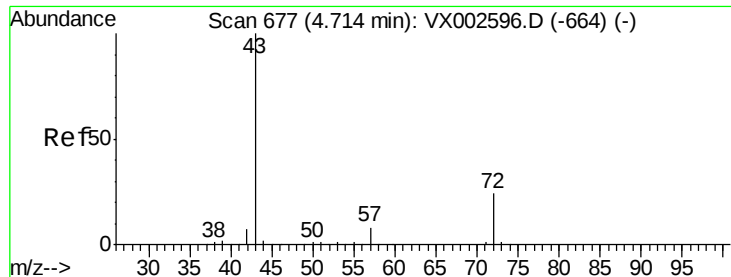
Tot Ion: 43 Resp: 21811
Ion Ratio Lower Upper
43 100
74 21.9 16.7 25.1



#20
Methylene Chloride
Concen: 3.37 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002762.D
Acq: 21 Jun 2018 01:12

Tgt Ion: 84 Resp: 10236
Ion Ratio Lower Upper
84 100
49 142.0 107.8 161.6
51 42.1 32.8 49.2
86 66.6 52.5 78.7





#25

2-Butanone

Concen: 1.10 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX002762.D

Acq: 21 Jun 2018 01:12

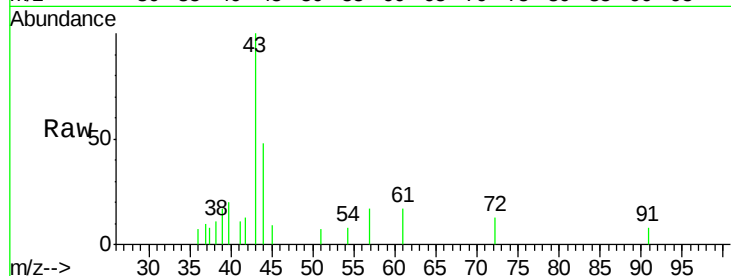
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 2140

Ion Ratio Lower Upper

43 100

72 14.4 18.5 27.7#

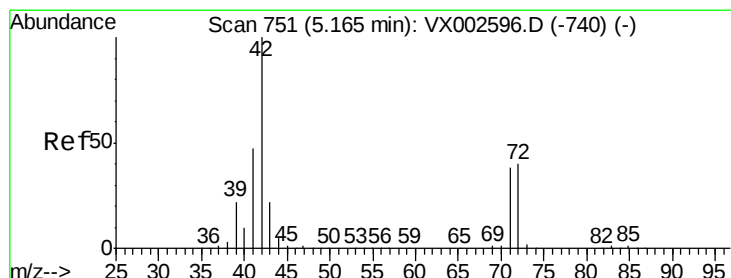
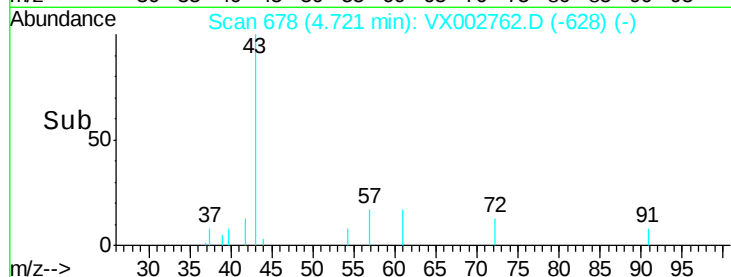


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Time-->

4.60 4.70 4.80



#29

Tetrahydrofuran

Concen: 0.48 ug/l

RT: 5.17 min Scan# 751

Delta R.T. 0.00 min

Lab File: VX002762.D

Acq: 21 Jun 2018 01:12

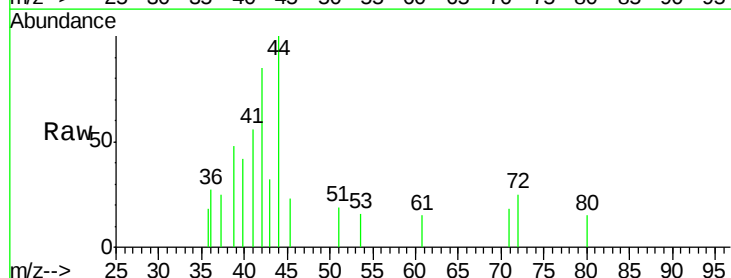
Tgt Ion: 42 Resp: 607

Ion Ratio Lower Upper

42 100

72 36.1 32.0 48.0

71 37.1 30.1 45.1



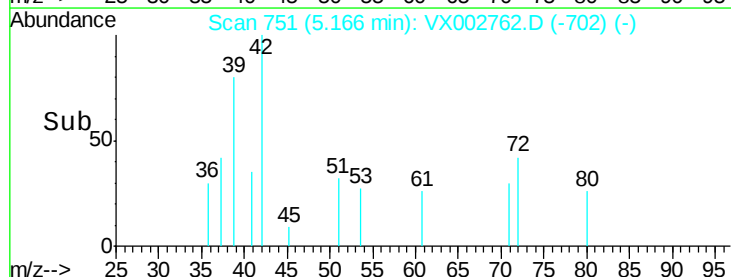
Abundance Ion 42.00 (41.70 to 42.70): VX0

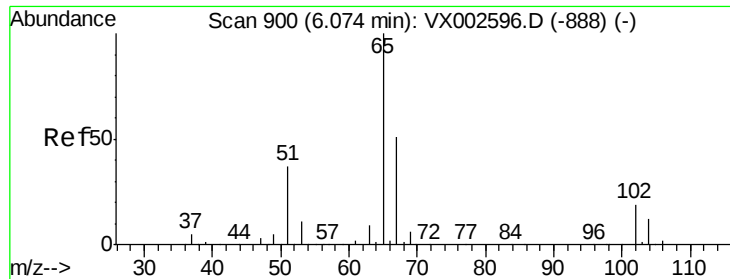
Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

Time-->

5.15 5.20





#33

1,2-Dichloroethane-d4

Concen: 44.56 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002762.D

Acq: 21 Jun 2018 01:12

Instrument :

MSVOA_X

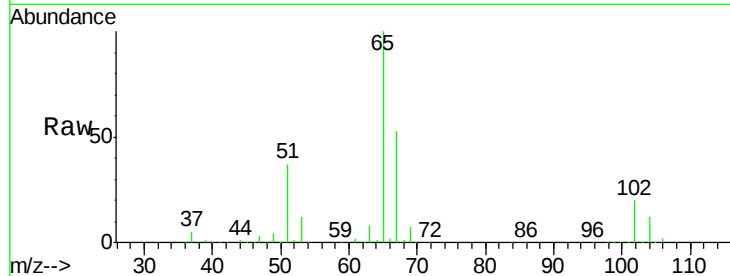
ClientSampleId :

Tot Ion: 65 Resp: 149491

Ion Ratio Lower Upper

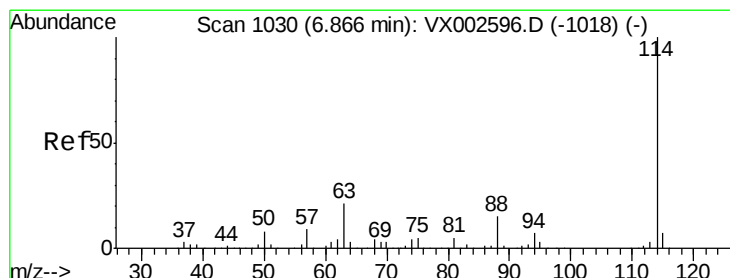
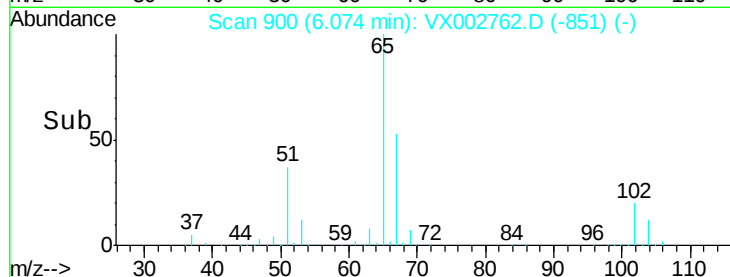
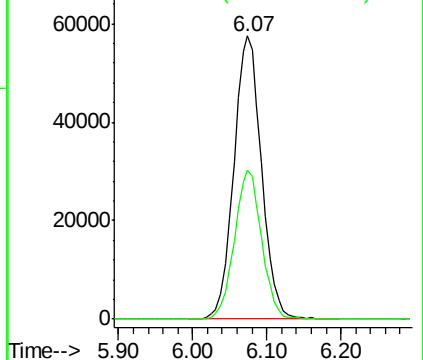
65 100

67 51.7 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: VX002762.D

Acq: 21 Jun 2018 01:12

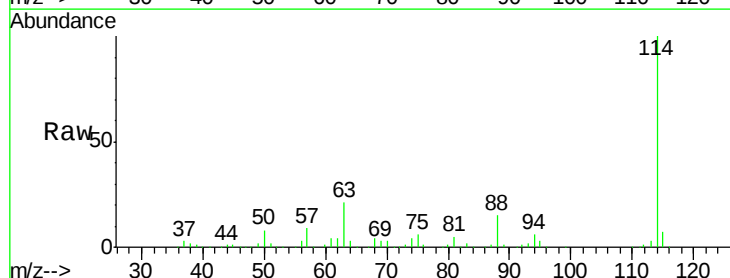
Tgt Ion: 114 Resp: 309627

Ion Ratio Lower Upper

114 100

63 20.9 0.0 41.4

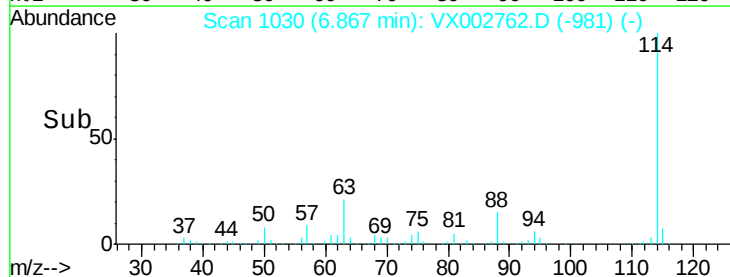
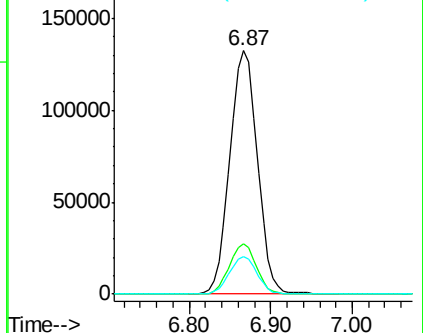
88 15.3 0.0 30.0

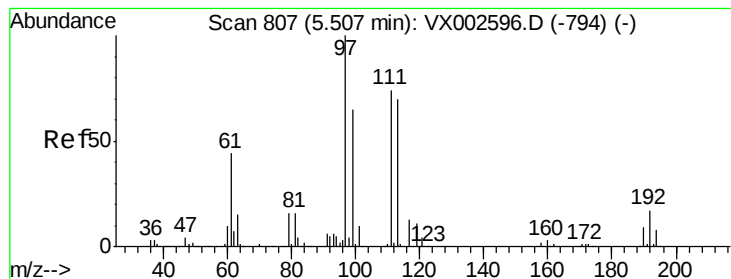


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.14 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX002762.D

Acq: 21 Jun 2018 01:12

Instrument :

MSVOA_X

ClientSampleId :

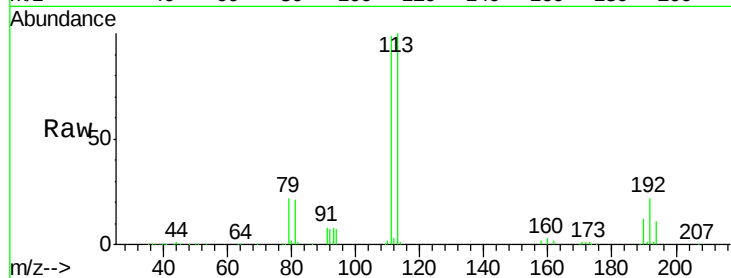
Tot Ion:113 Resp: 121421

Ion Ratio Lower Upper

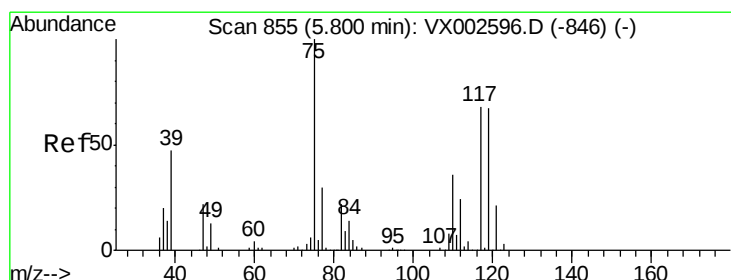
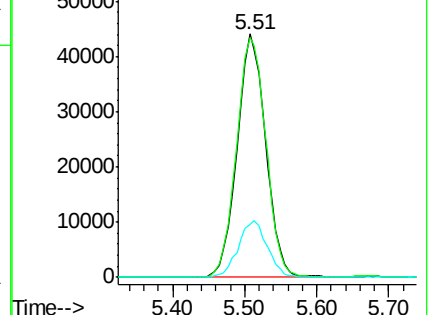
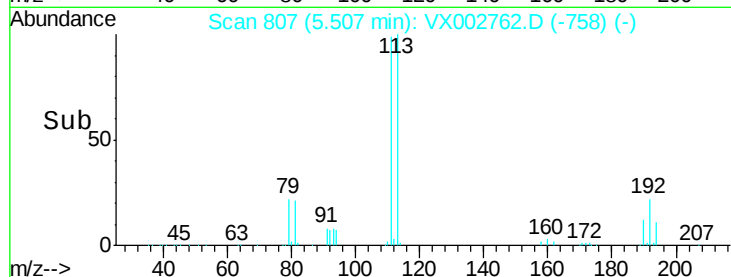
113 100

111 101.7 81.4 122.0

192 23.6 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: 4.64 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX002762.D

Acq: 21 Jun 2018 01:12

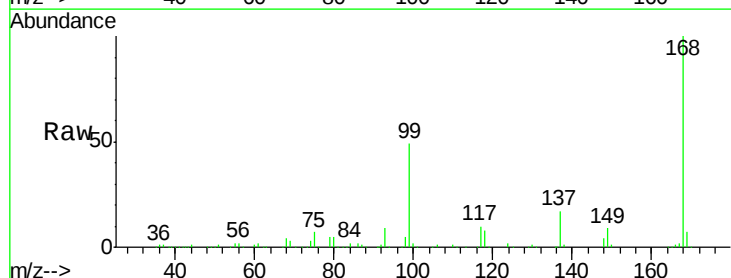
Tgt Ion: 75 Resp: 15264

Ion Ratio Lower Upper

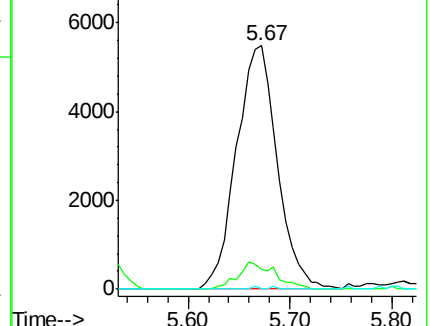
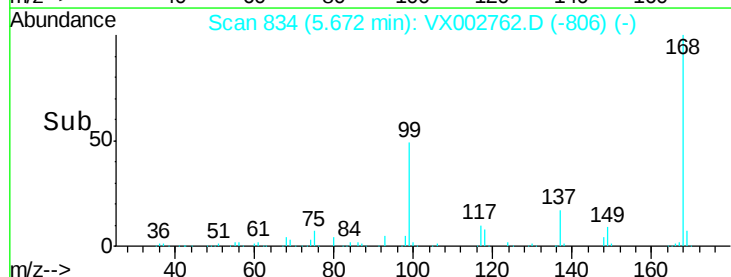
75 100

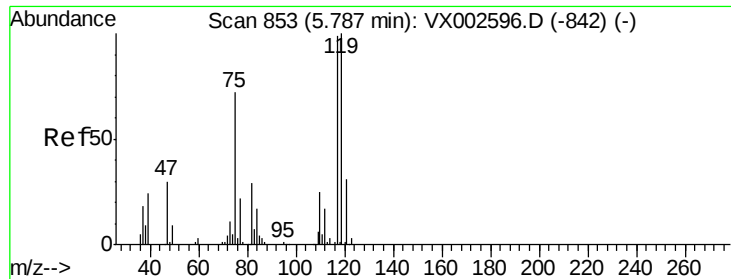
110 10.1 18.1 54.4#

77 0.2 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: 6.42 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002762.D

Acq: 21 Jun 2018 01:12

Instrument :

MSVOA_X

ClientSampled :

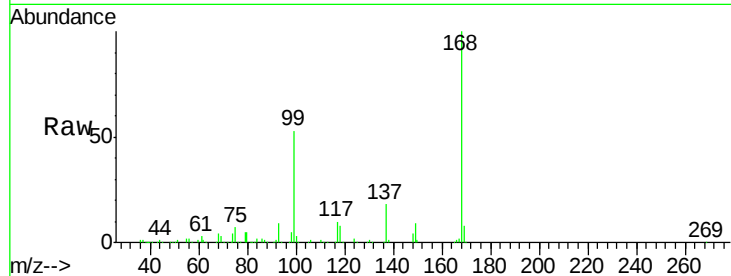
Tot Ion:117 Resp: 21016

Ion Ratio Lower Upper

117 100

119 4.8 77.4 116.0#

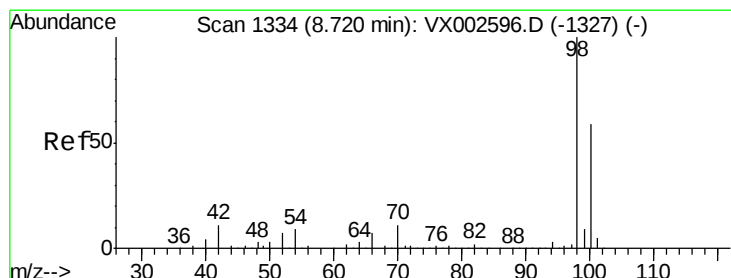
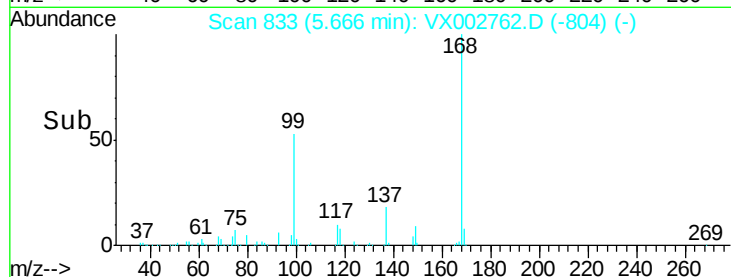
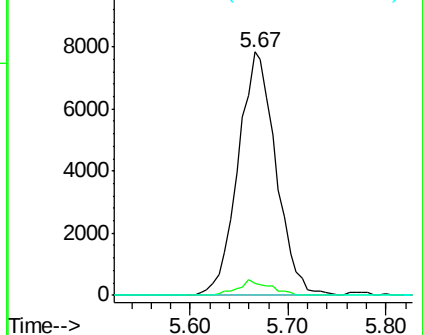
121 0.0 24.4 36.6#



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: 47.52 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002762.D

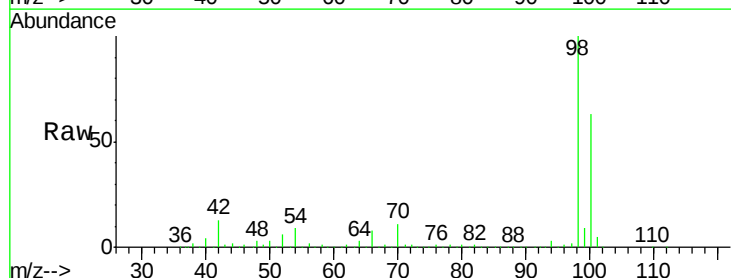
Acq: 21 Jun 2018 01:12

Tgt Ion: 98 Resp: 445859

Ion Ratio Lower Upper

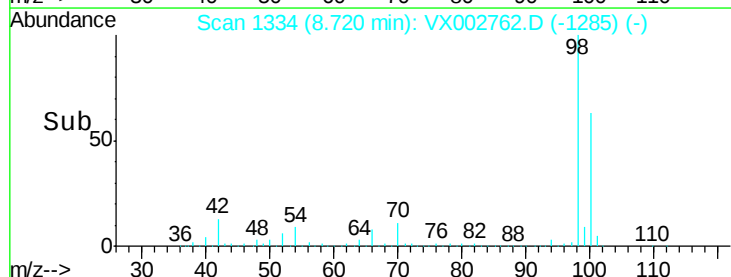
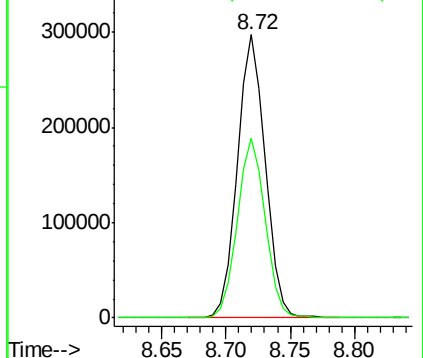
98 100

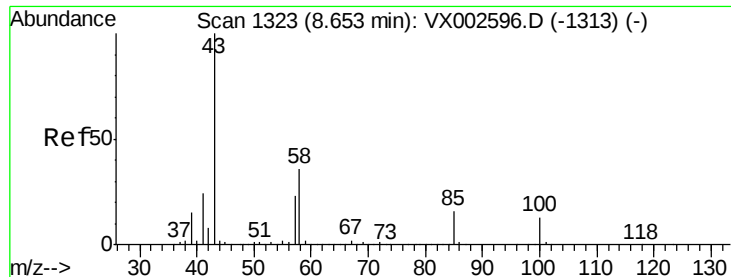
100 63.6 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.30 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. 0.00 min

Lab File: VX002762.D

Acq: 21 Jun 2018 01:12

Instrument :

MSVOA_X

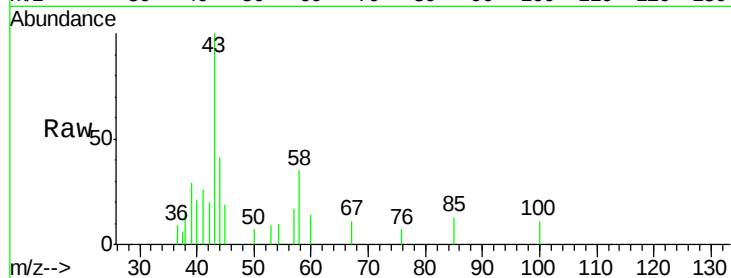
ClientSampled :

Tot Ion: 43 Resp: 1206

Ion Ratio Lower Upper

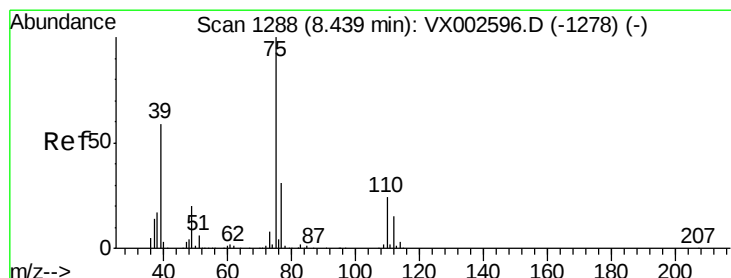
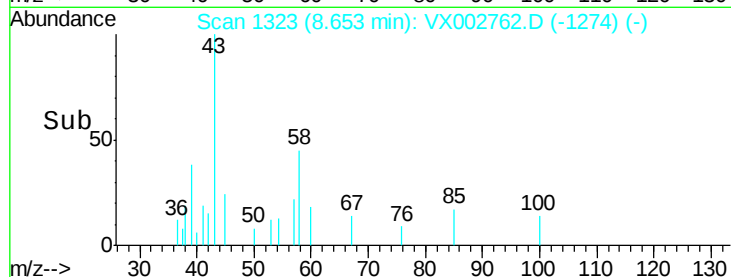
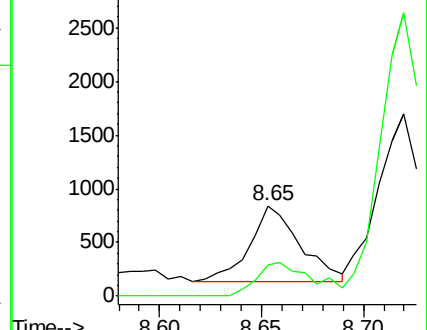
43 100

58 49.4 28.6 42.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#53

t-1,3-Dichloropropene

Concen: 2.43 ug/l

RT: 8.44 min Scan# 1288

Delta R.T. 0.00 min

Lab File: VX002762.D

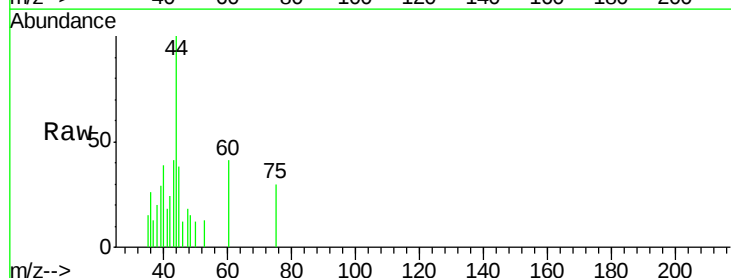
Acq: 21 Jun 2018 01:12

Tgt Ion: 75 Resp: 143

Ion Ratio Lower Upper

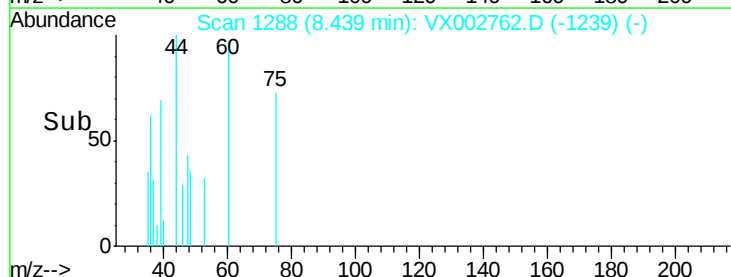
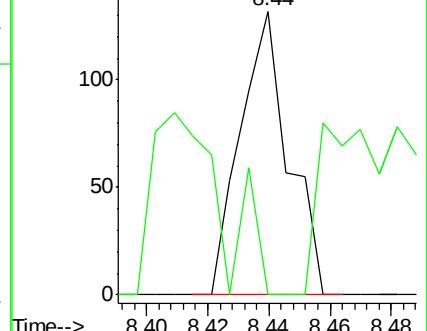
75 100

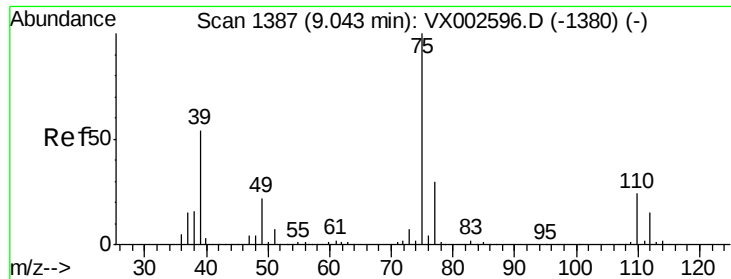
77 0.0 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



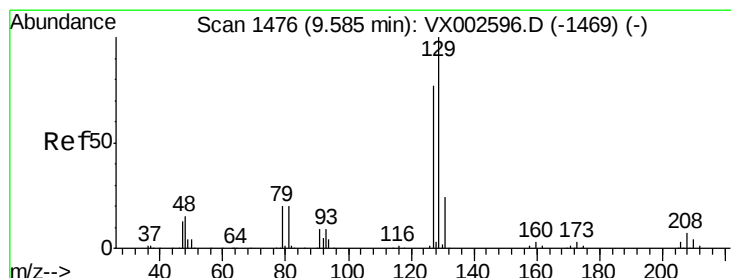
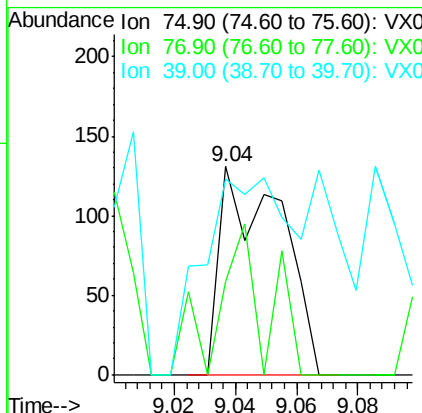
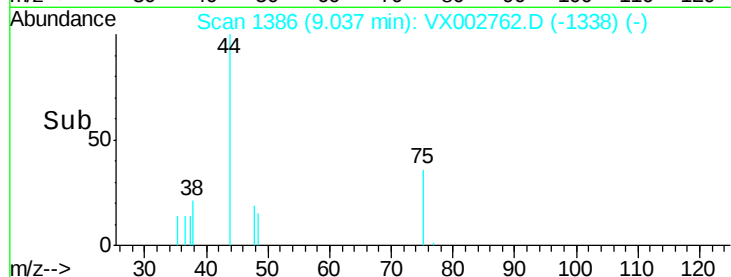
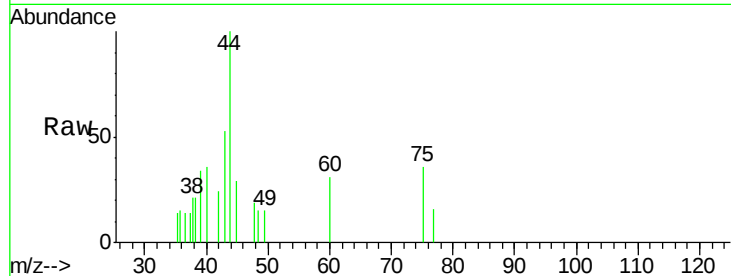


#54

cis-1,3-Dichloropropene
Concen: 3.26 ug/l
RT: 9.04 min Scan# 1386
Delta R.T. -0.01 min
Lab File: VX002762.D
Acq: 21 Jun 2018 01:12

Instrument :
MSVOA_X
ClientSampleId :

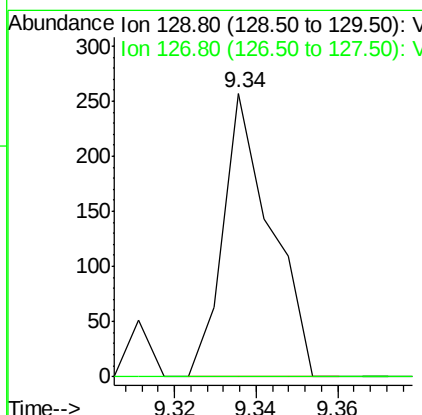
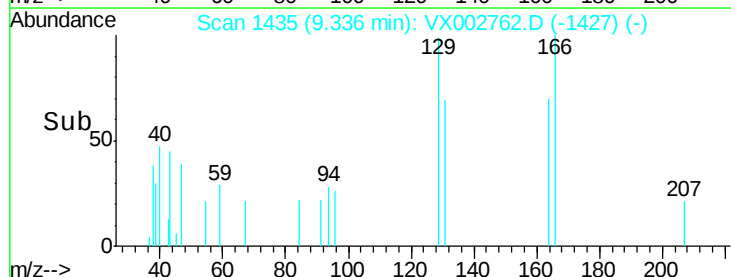
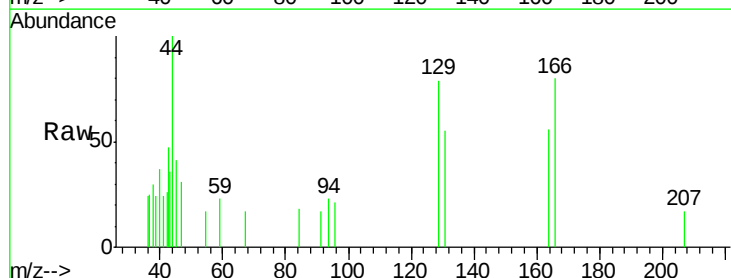
Tot Ion: 75 Resp: 181
Ion Ratio Lower Upper
75 100
77 45.0 24.8 37.2#
39 42.0 42.4 63.6#

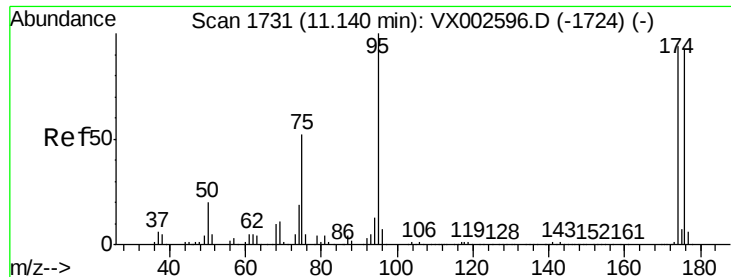


#60

Dibromochloromethane
Concen: 3.83 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.25 min
Lab File: VX002762.D
Acq: 21 Jun 2018 01:12

Tgt Ion: 129 Resp: 209
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#





#62

4-Bromofluorobenzene

Concen: 43.83 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002762.D

Acq: 21 Jun 2018 01:12

Instrument :

MSVOA_X

ClientSampleId :

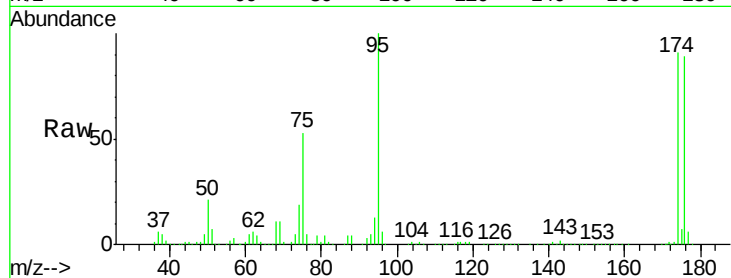
Tot Ion: 95 Resp: 155845

Ion Ratio Lower Upper

95 100

174 98.0 0.0 187.4

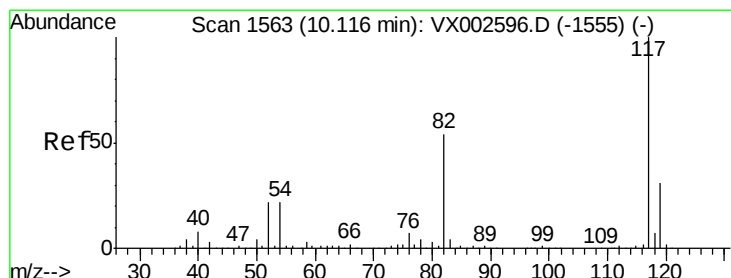
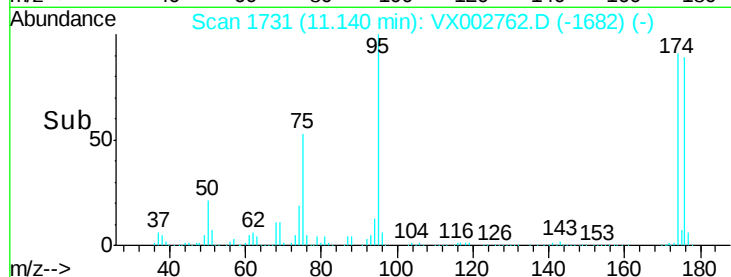
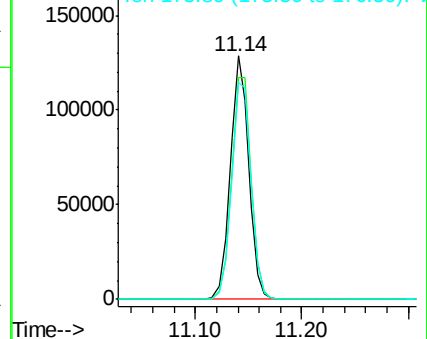
176 94.5 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX002762.D (-1682) (-)

Ion 173.80 (173.50 to 174.50): VX002762.D (-1682) (-)

Ion 175.80 (175.50 to 176.50): VX002762.D (-1682) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX002762.D

Acq: 21 Jun 2018 01:12

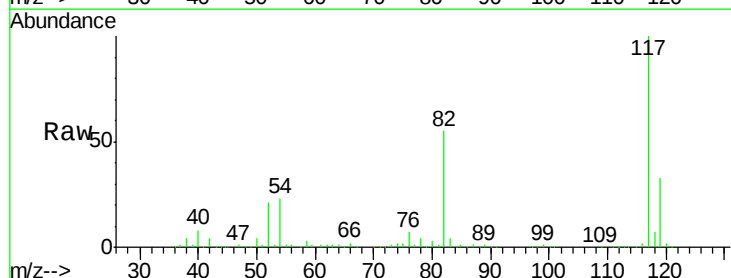
Tgt Ion: 117 Resp: 290017

Ion Ratio Lower Upper

117 100

82 55.2 45.0 67.4

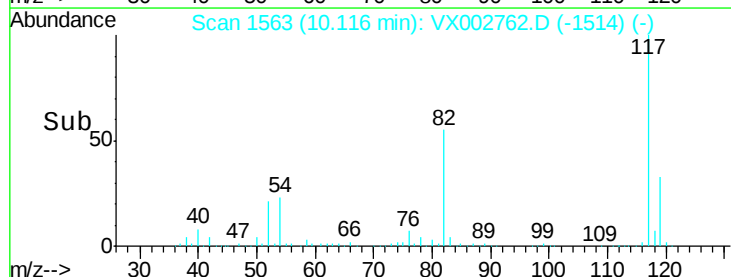
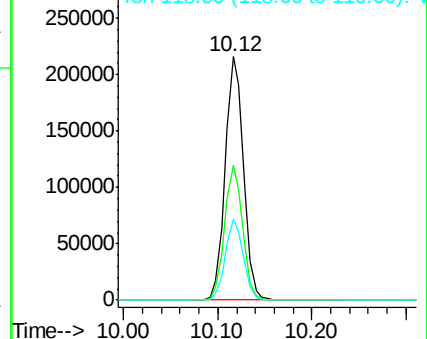
119 33.2 25.8 38.6

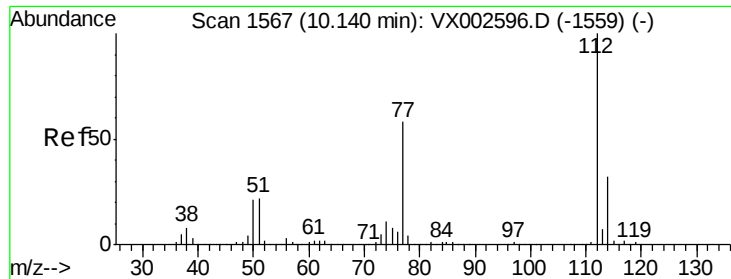


Abundance Ion 116.90 (116.60 to 117.60): VX002762.D (-1514) (-)

Ion 82.00 (81.70 to 82.70): VX002762.D (-1514) (-)

Ion 118.90 (118.60 to 119.60): VX002762.D (-1514) (-)





#65

Chlorobenzene

Concen: 0.59 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VX002762.D

Acq: 21 Jun 2018 01:12

Instrument :

MSVOA_X

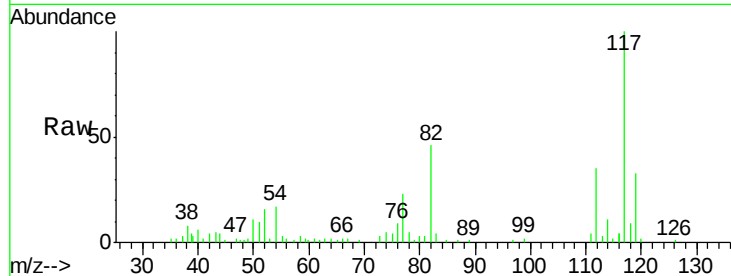
ClientSampleId :

Tot Ion:112 Resp: 4173

Ion Ratio Lower Upper

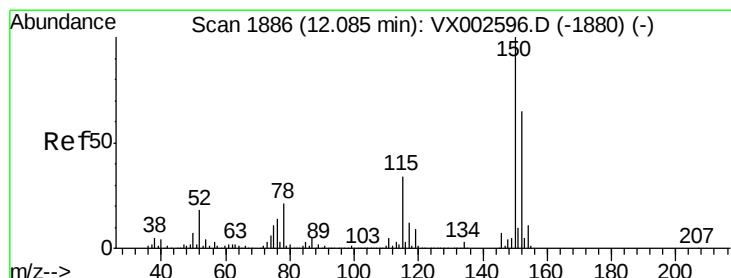
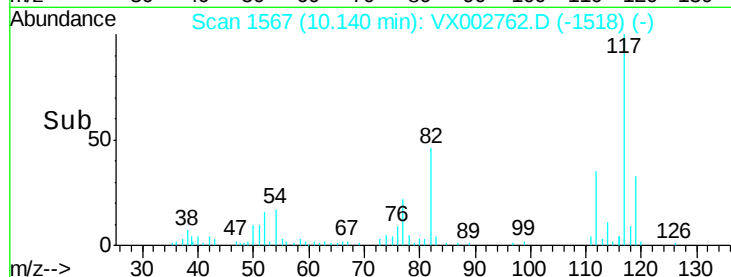
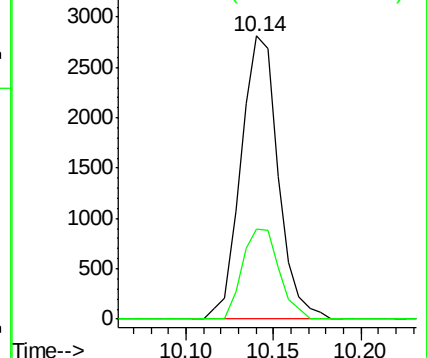
112 100

114 31.7 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX002762.D

Acq: 21 Jun 2018 01:12

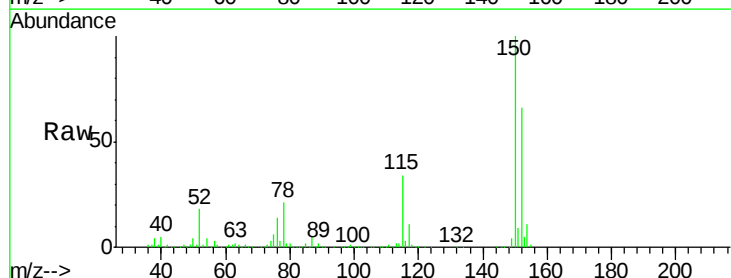
Tgt Ion:152 Resp: 167507

Ion Ratio Lower Upper

152 100

115 54.0 40.1 120.2

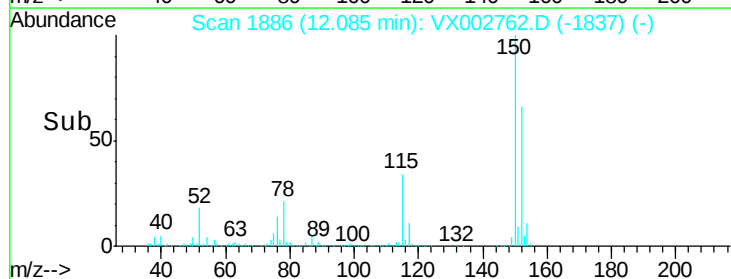
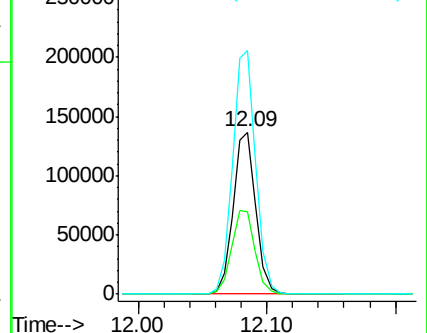
150 154.1 0.0 347.2

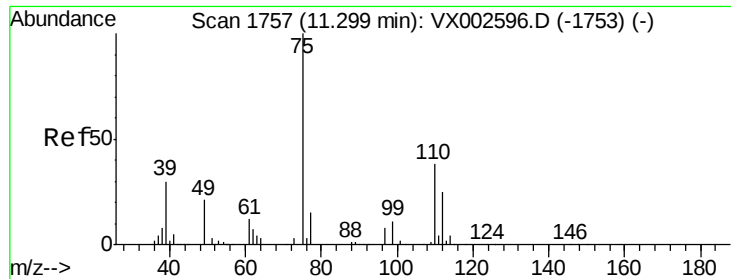


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.20 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002762.D

Acq: 21 Jun 2018 01:12

Instrument :

MSVOA_X

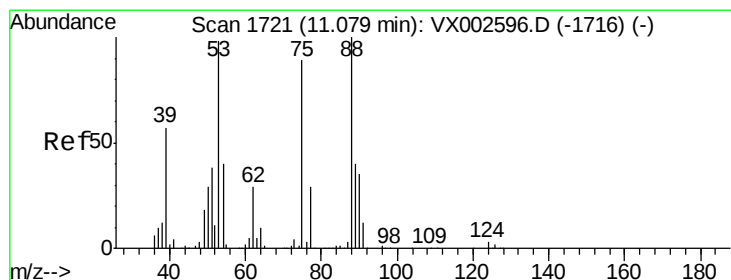
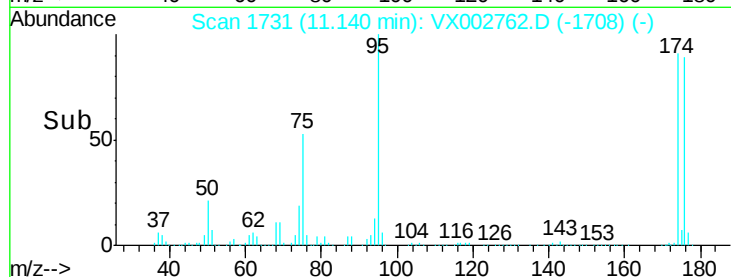
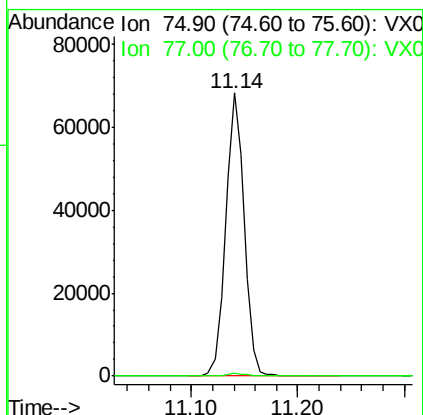
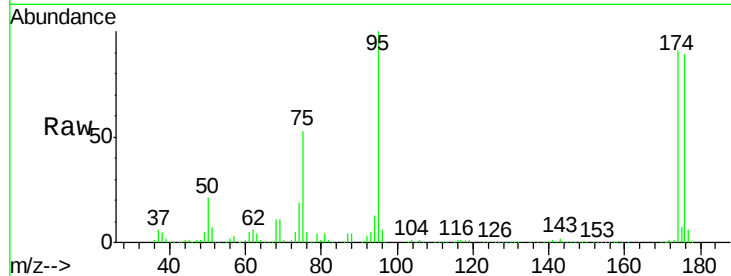
ClientSampleId :

Tot Ion: 75 Resp: 82806

Ion Ratio Lower Upper

75 100

77 1.0 22.8 68.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 81.00 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002762.D

Acq: 21 Jun 2018 01:12

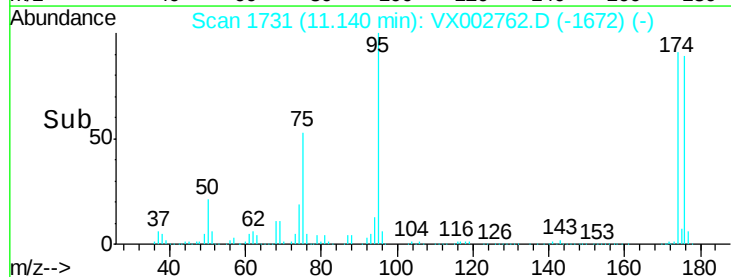
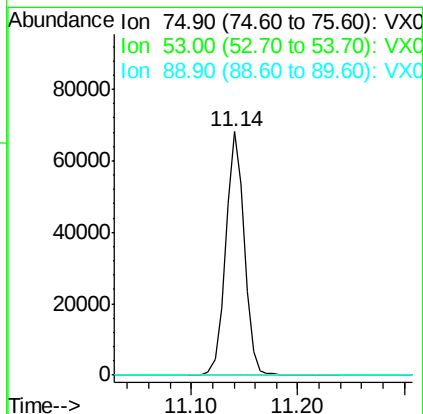
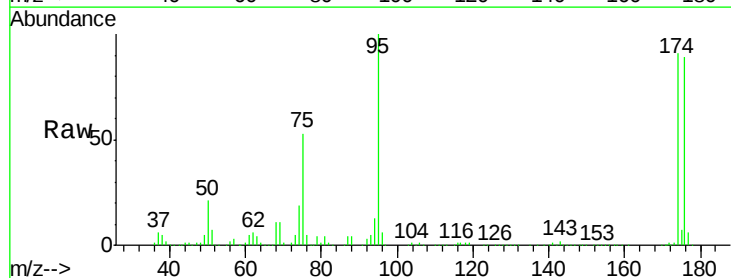
Tgt Ion: 75 Resp: 82806

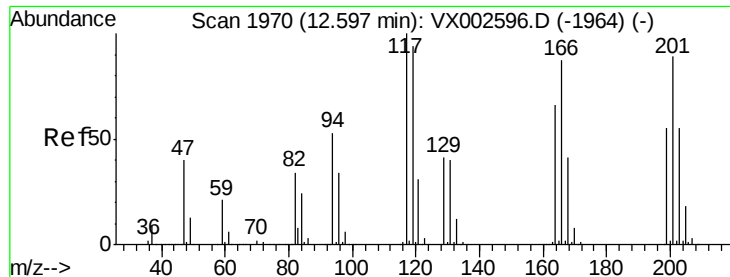
Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

89 0.0 38.2 57.2#





#90

Hexachloroethane

Concen: 2.66 ug/l

RT: 12.60 min Scan# 1971

Delta R.T. 0.01 min

Lab File: VX002762.D

Acq: 21 Jun 2018 01:12

Instrument :

MSVOA_X

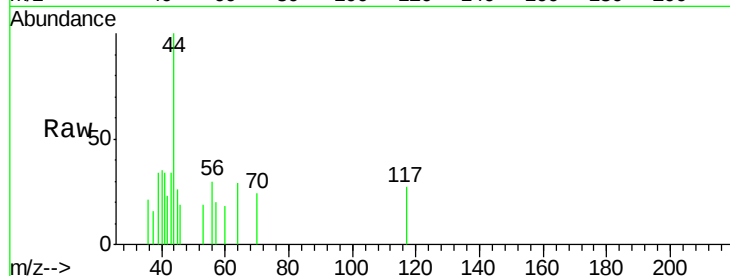
ClientSampled :

Tot Ion:117 Resp: 53

Ion Ratio Lower Upper

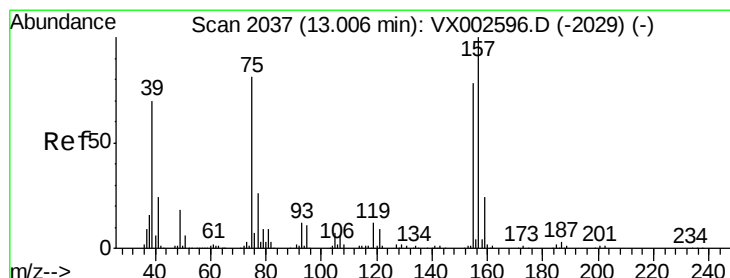
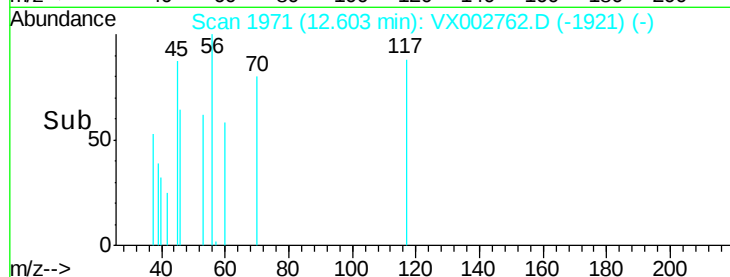
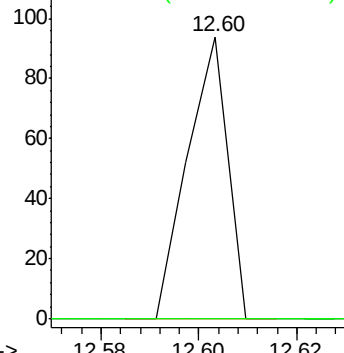
117 100

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



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.55 ug/l

RT: 12.98 min Scan# 2033

Delta R.T. -0.02 min

Lab File: VX002762.D

Acq: 21 Jun 2018 01:12

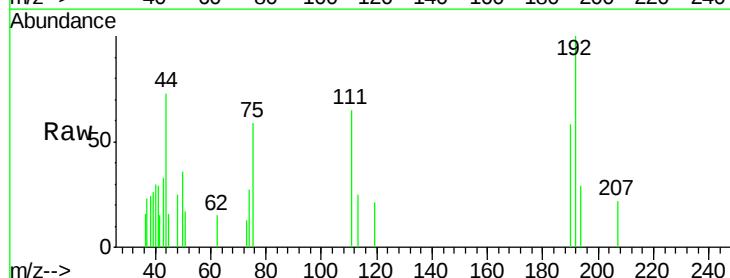
Tgt Ion: 75 Resp: 384

Ion Ratio Lower Upper

75 100

155 0.0 45.8 137.4#

157 0.0 60.1 180.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

