

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070918\
 Data File : VX003268.D
 Acq On : 10 Jul 2018 02:17
 Operator : JC/MD
 Sample : PB110911ZHE#14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB110911ZHE#14

Quant Time: Jul 10 03:25:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X070918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 09 15:24:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	272137	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	370963	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	346868	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	196432	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	164277	38.36	ug/l	0.00
Spiked Amount			Recovery	=	76.72%	
35) Dibromofluoromethane	5.51	113	143739	36.07	ug/l	0.00
Spiked Amount			Recovery	=	72.14%	
50) Toluene-d8	8.72	98	515224	36.40	ug/l	0.00
Spiked Amount			Recovery	=	72.80%	
62) 4-Bromofluorobenzene	11.14	95	180263	34.46	ug/l	0.00
Spiked Amount			Recovery	=	68.92%	

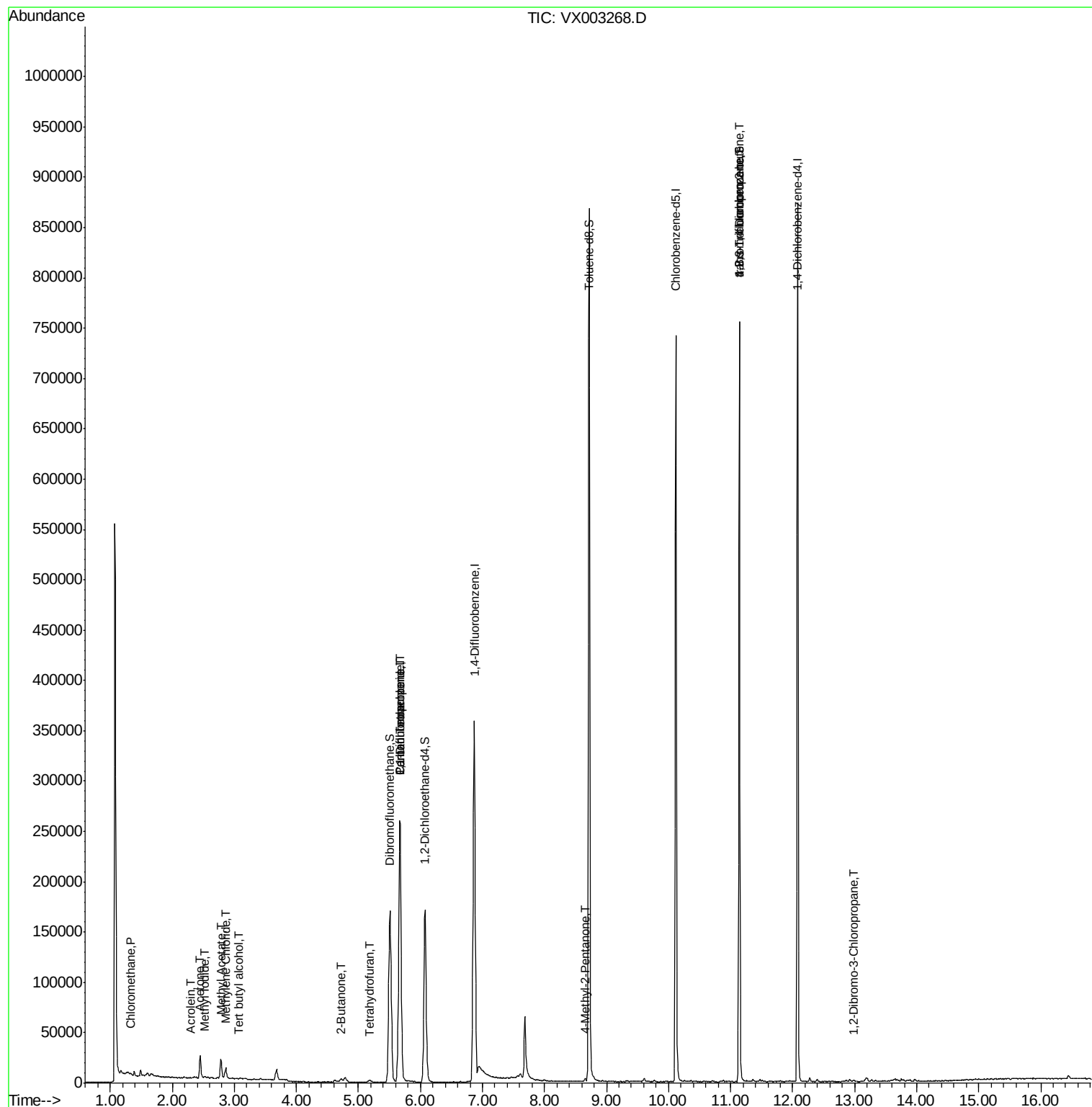
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	779	0.21	ug/l	96
5) Bromomethane	1.65	94	2409	Below	Cal	87
10) Methyl Iodide	2.52	142	1790	6.08	ug/l #	91
11) Tert butyl alcohol	3.07	59	742	0.96	ug/l #	64
13) Acrolein	2.30	56	306	0.49	ug/l #	47
16) Acetone	2.45	43	24854	16.35	ug/l	98
18) Methyl Acetate	2.78	43	22609	5.27	ug/l	92
20) Methylene Chloride	2.86	84	4937	0.89	ug/l	91
25) 2-Butanone	4.71	43	5221	1.94	ug/l	97
29) Tetrahydrofuran	5.18	42	2270	1.30	ug/l #	85
36) 1,1-Dichloropropene	5.67	75	16896	3.22	ug/l #	51
38) Carbon Tetrachloride	5.67	117	23276	4.05	ug/l #	16
51) 4-Methyl-2-Pentanone	8.65	43	1943	0.35	ug/l	97
76) 1,2,3-Trichloropropane	11.14	75	88476	20.84	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	88476	68.12	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	12.98	75	236	0.23	ug/l #	1

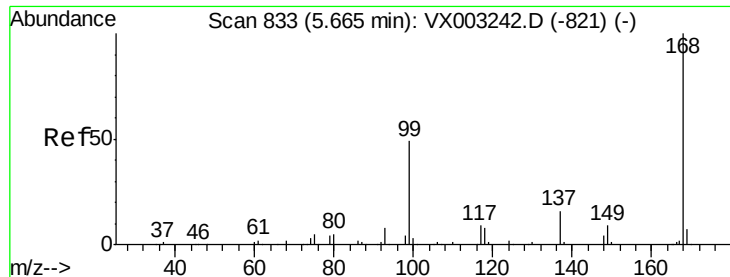
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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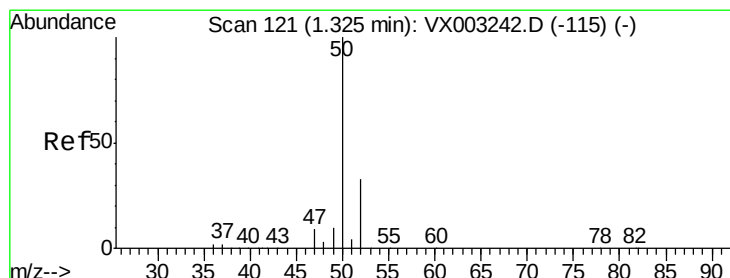
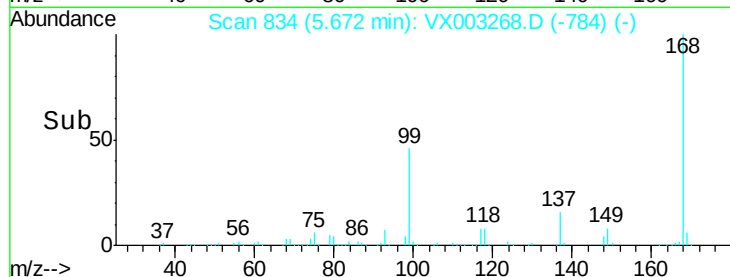
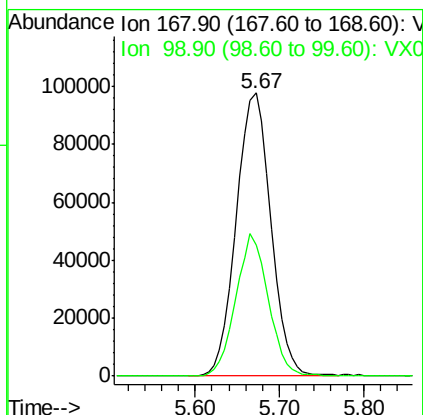
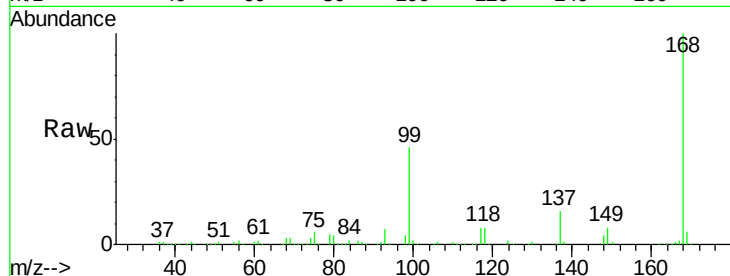




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.67 min Scan# 834
Delta R.T. 0.01 min
Lab File: VX003268.D
Acq: 10 Jul 2018 02:17

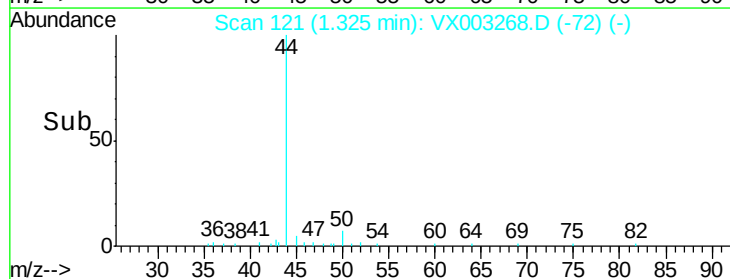
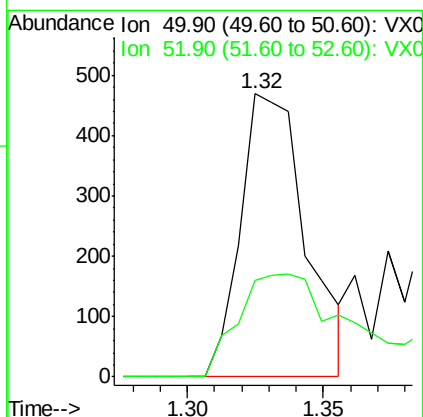
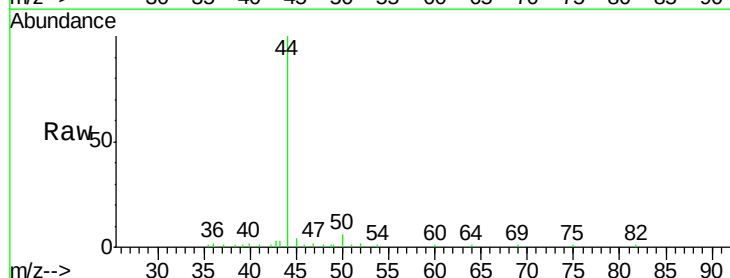
Instrument :
MSVOA_X
ClientSampleId :
PB110911ZHE#14

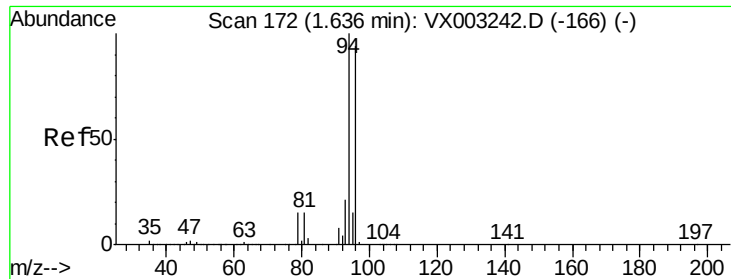
Tot Ion:168 Resp: 272137
Ion Ratio Lower Upper
168 100
99 46.4 39.3 58.9



#3
Chloromethane
Concen: 0.21 ug/l
RT: 1.32 min Scan# 121
Delta R.T. 0.00 min
Lab File: VX003268.D
Acq: 10 Jul 2018 02:17

Tgt Ion: 50 Resp: 779
Ion Ratio Lower Upper
50 100
52 34.1 25.7 38.5





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003268.D

Acq: 10 Jul 2018 02:17

Instrument :

MSVOA_X

ClientSampleId :

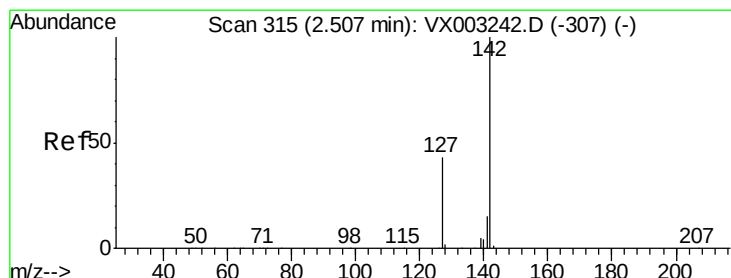
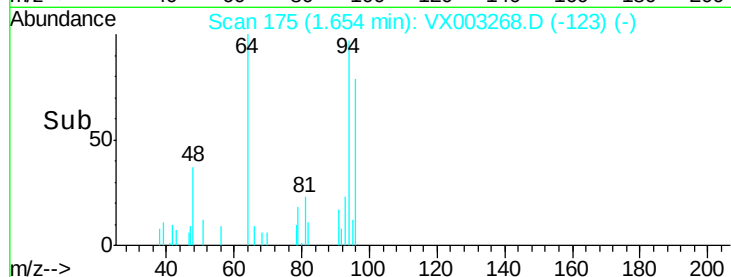
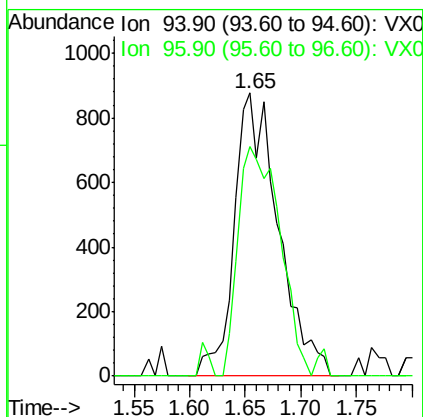
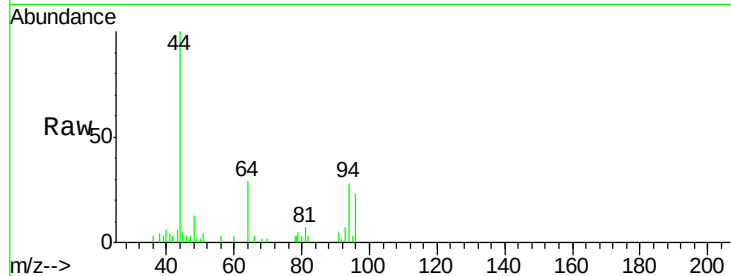
PB110911ZHE#14

Tot Ion: 94 Resp: 2409

Ion Ratio Lower Upper

94 100

96 81.1 74.9 112.3



#10

Methyl Iodide

Concen: 6.08 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003268.D

Acq: 10 Jul 2018 02:17

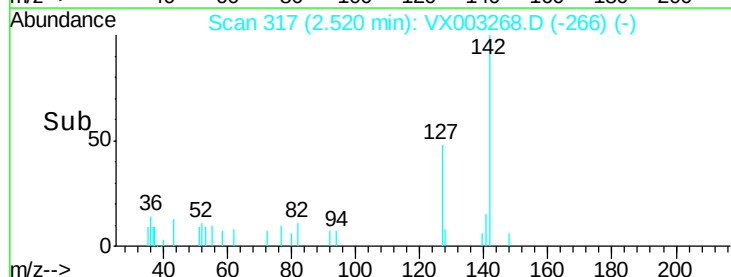
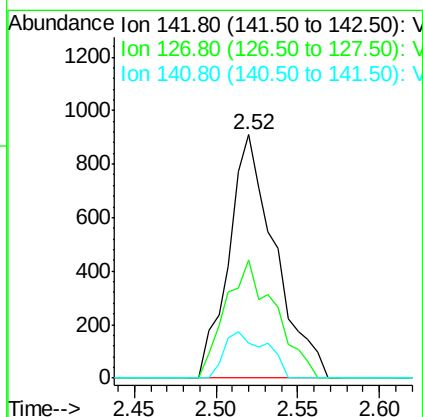
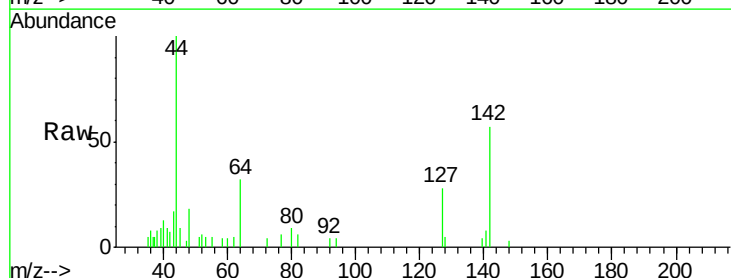
Tgt Ion: 142 Resp: 1790

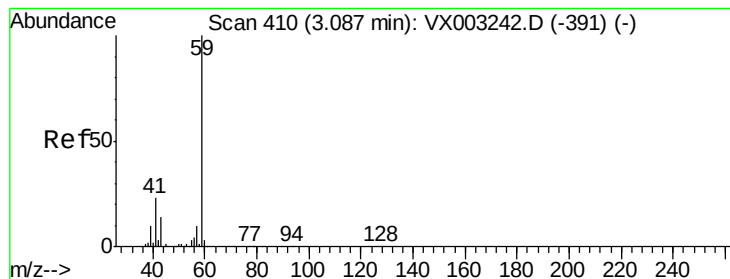
Ion Ratio Lower Upper

142 100

127 52.2 36.6 55.0

141 17.3 11.3 16.9#





#11

Tert butyl alcohol

Concen: 0.96 ug/l

RT: 3.07 min Scan# 408

Delta R.T. -0.02 min

Lab File: VX003268.D

Acq: 10 Jul 2018 02:17

Instrument :

MSVOA_X

ClientSampleId :

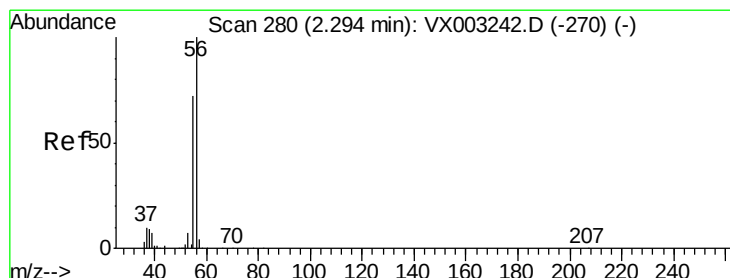
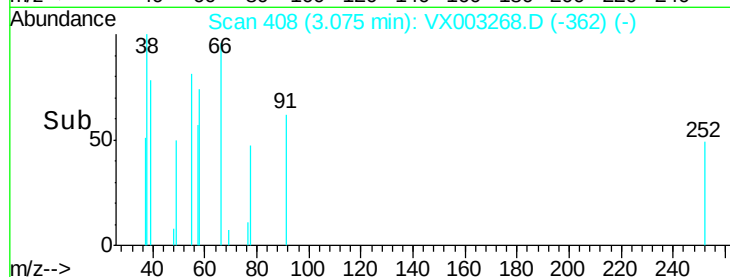
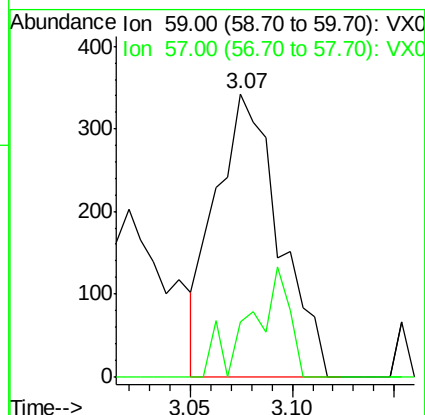
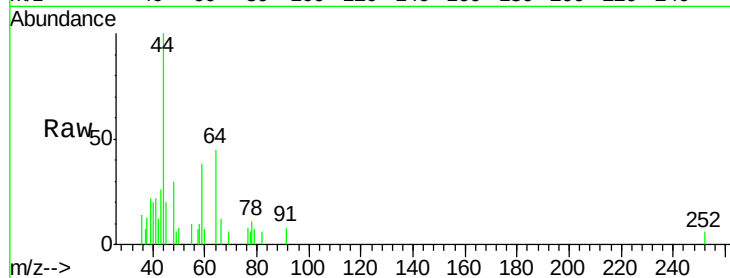
PB110911ZHE#14

Tot Ion: 59 Resp: 742

Ion Ratio Lower Upper

59 100

57 23.6 8.2 12.2#



#13

Acrolein

Concen: 0.49 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX003268.D

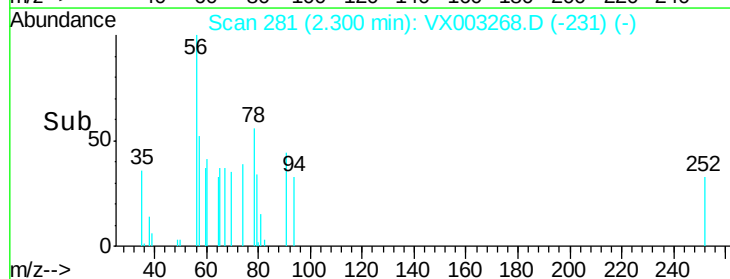
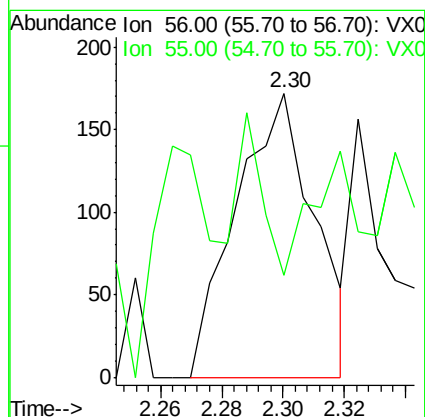
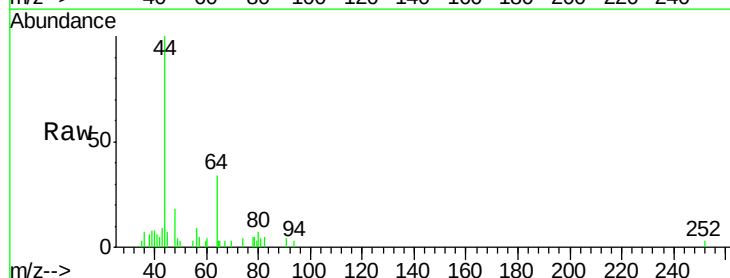
Acq: 10 Jul 2018 02:17

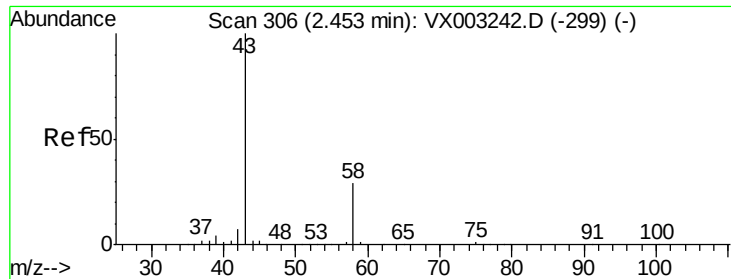
Tgt Ion: 56 Resp: 306

Ion Ratio Lower Upper

56 100

55 27.5 57.0 85.4#





#16

Acetone

Concen: 16.35 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX003268.D

Acq: 10 Jul 2018 02:17

Instrument :

MSVOA_X

ClientSampleId :

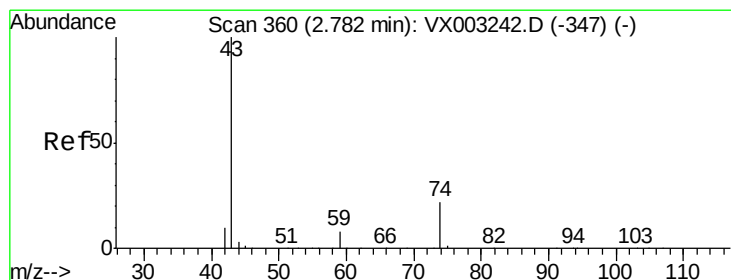
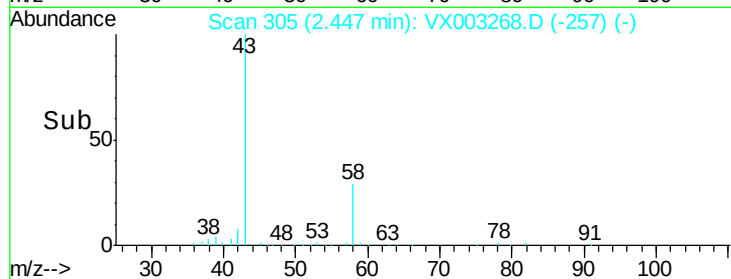
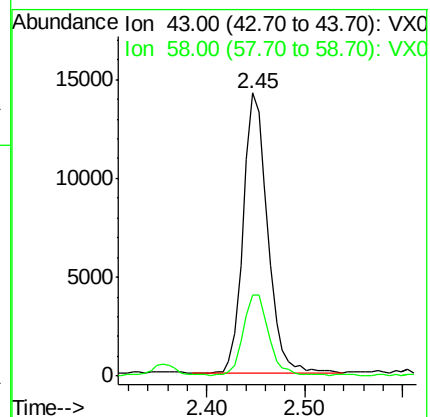
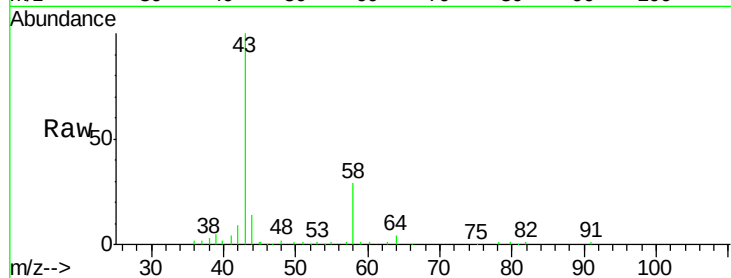
PB110911ZHE#14

Tot Ion: 43 Resp: 24854

Ion Ratio Lower Upper

43 100

58 28.5 22.1 33.1



#18

Methyl Acetate

Concen: 5.27 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX003268.D

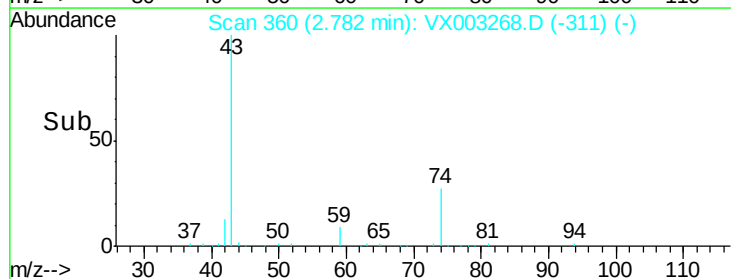
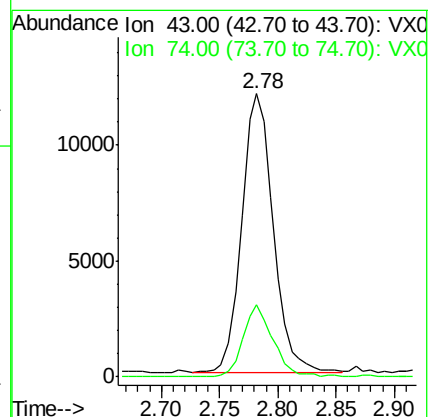
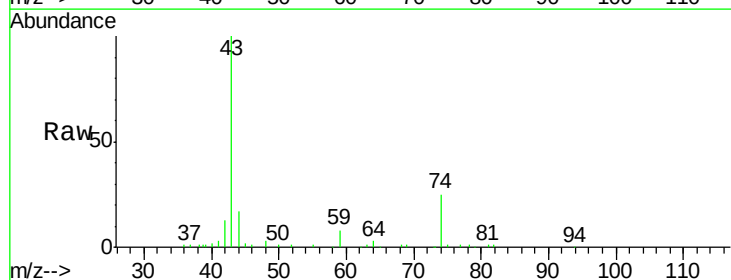
Acq: 10 Jul 2018 02:17

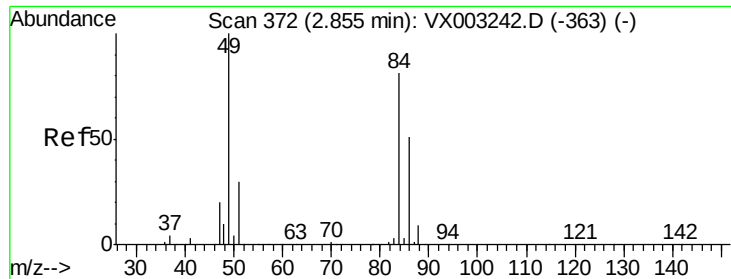
Tgt Ion: 43 Resp: 22609

Ion Ratio Lower Upper

43 100

74 24.4 16.7 25.1

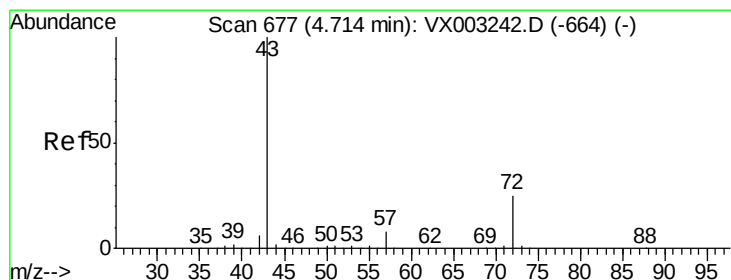
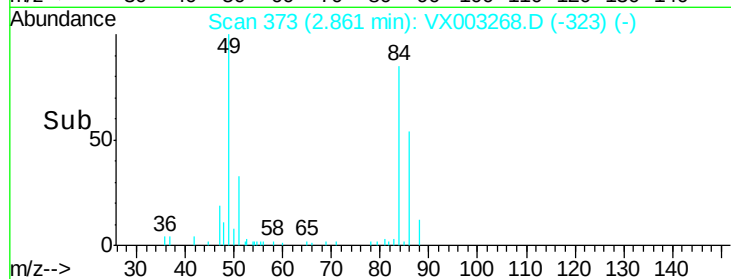
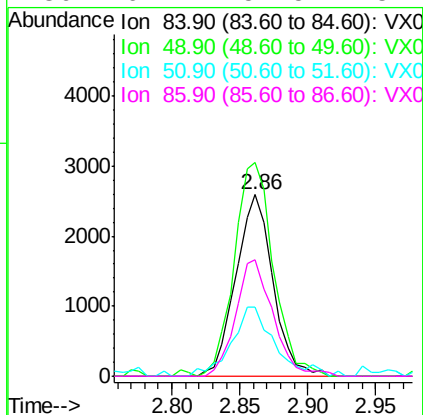
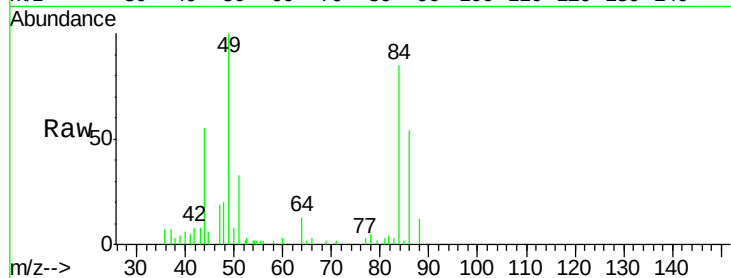




#20
Methylene Chloride
Concen: 0.89 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003268.D
Acq: 10 Jul 2018 02:17

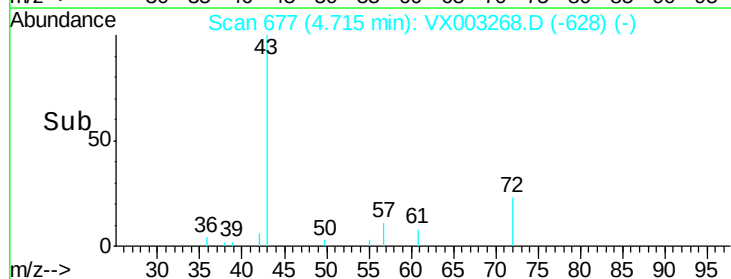
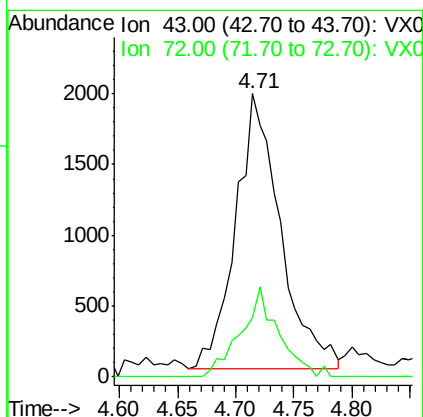
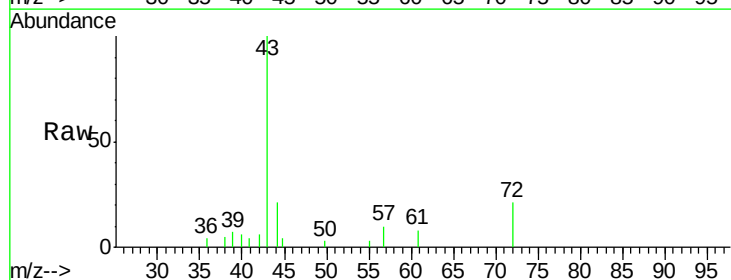
Instrument :
MSVOA_X
ClientSampleId :
PB110911ZHE#14

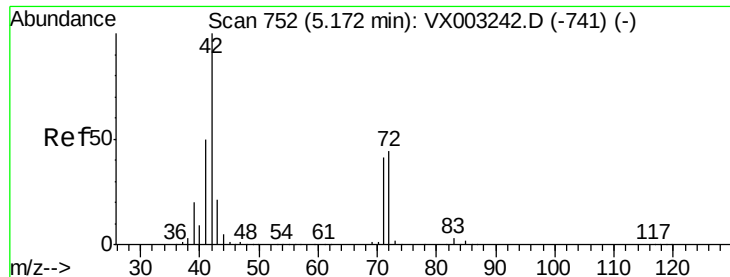
Tot Ion:	84	Resp:	4937
Ion	Ratio	Lower	Upper
84	100		
49	117.8	107.8	161.6
51	38.4	32.8	49.2
86	64.2	52.5	78.7



#25
2-Butanone
Concen: 1.94 ug/l
RT: 4.71 min Scan# 677
Delta R.T. 0.00 min
Lab File: VX003268.D
Acq: 10 Jul 2018 02:17

Tgt Ion:	43	Resp:	5221
Ion	Ratio	Lower	Upper
43	100		
72	21.6	18.5	27.7





#29

Tetrahydrofuran

Concen: 1.30 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX003268.D

Acq: 10 Jul 2018 02:17

Instrument :

MSVOA_X

ClientSampleId :

PB110911ZHE#14

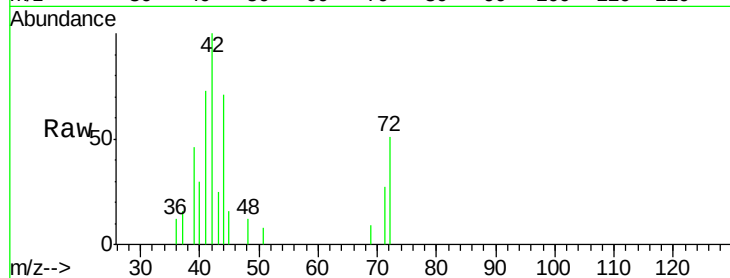
Tot Ion: 42 Resp: 2270

Ion Ratio Lower Upper

42 100

72 38.5 32.0 48.0

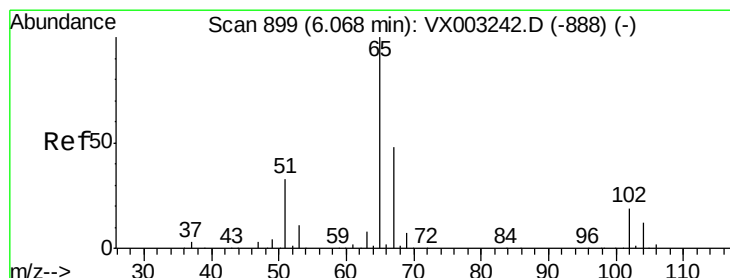
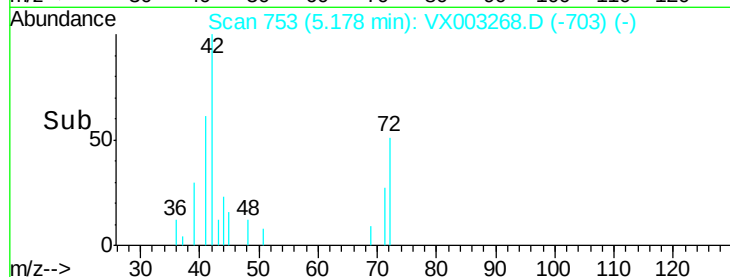
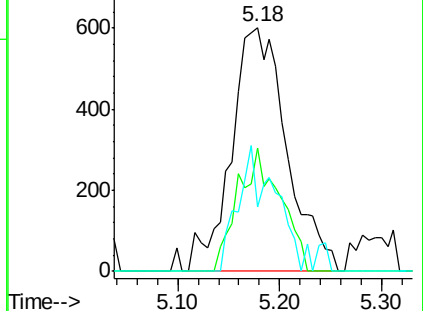
71 21.0 30.1 45.1#



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



#33

1,2-Dichloroethane-d4

Concen: 38.36 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX003268.D

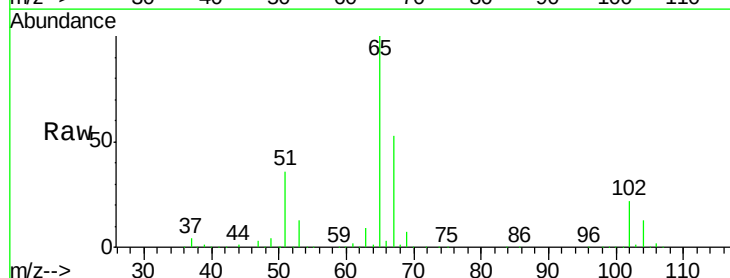
Acq: 10 Jul 2018 02:17

Tgt Ion: 65 Resp: 164277

Ion Ratio Lower Upper

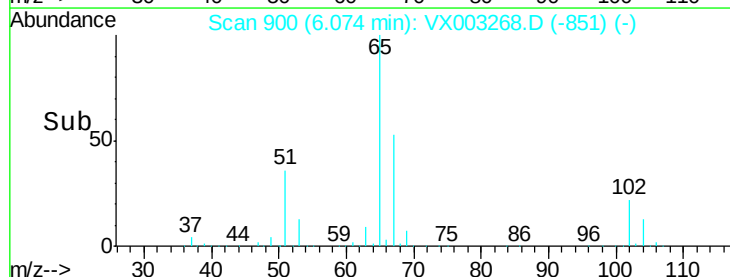
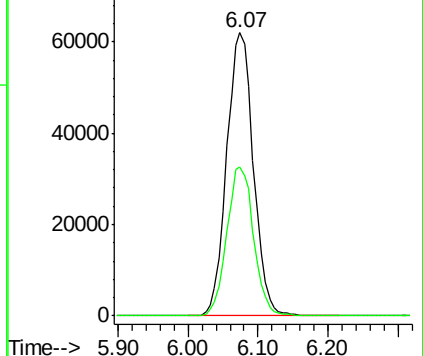
65 100

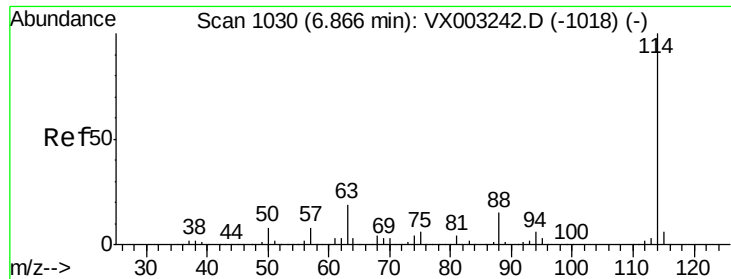
67 52.7 0.0 102.6



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: VX003268.D

Acq: 10 Jul 2018 02:17

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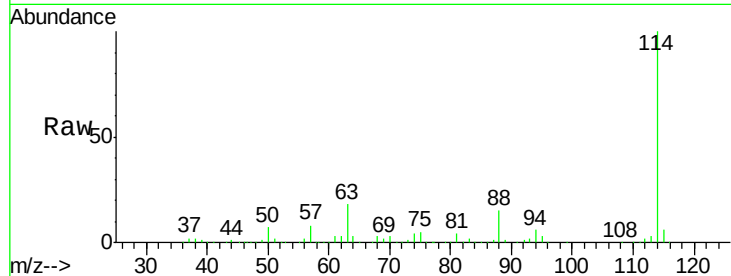
Tot Ion:114 Resp: 370963

Ion Ratio Lower Upper

114 100

63 18.4 0.0 41.4

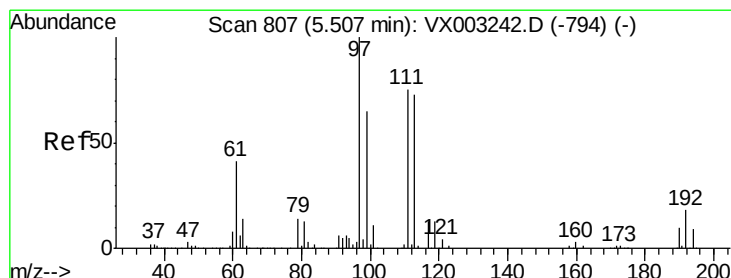
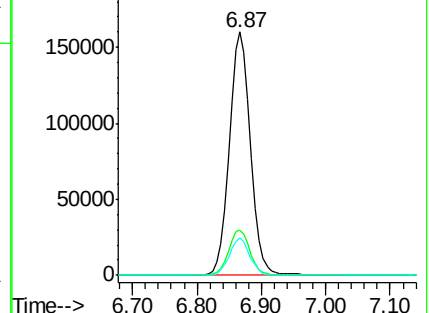
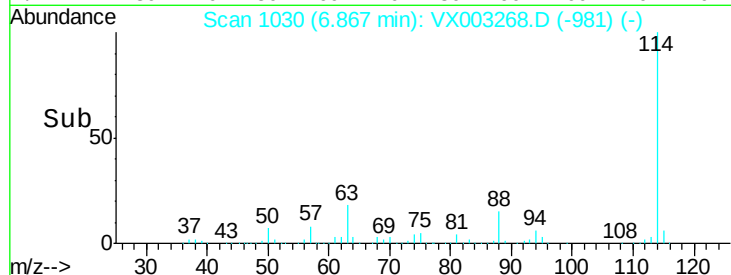
88 15.2 0.0 30.0



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: 36.07 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003268.D

Acq: 10 Jul 2018 02:17

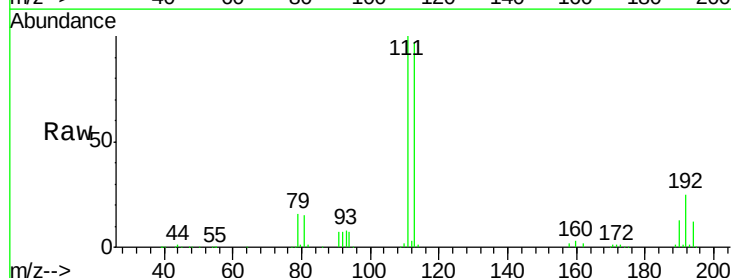
Tgt Ion:113 Resp: 143739

Ion Ratio Lower Upper

113 100

111 101.1 81.4 122.0

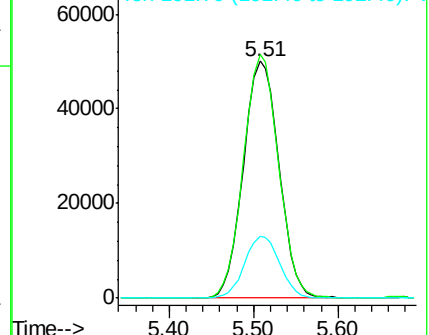
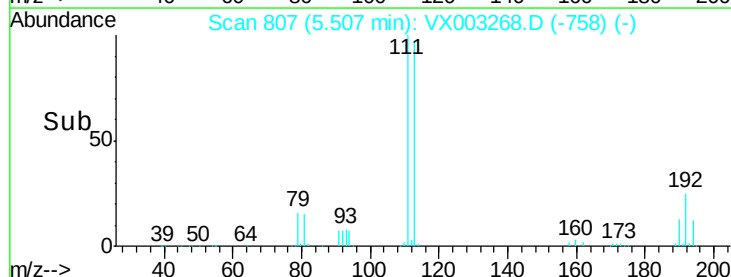
192 25.9 19.1 28.7

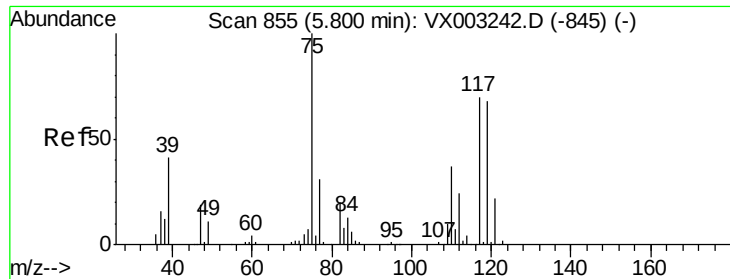


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.22 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003268.D

Acq: 10 Jul 2018 02:17

Instrument :

MSVOA_X

ClientSampleId :

PB110911ZHE#14

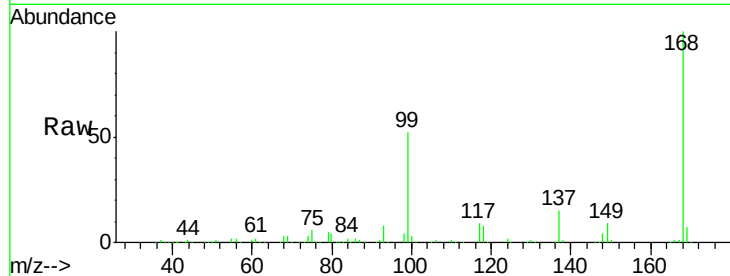
Tot Ion: 75 Resp: 16896

Ion Ratio Lower Upper

75 100

110 10.1 18.1 54.4#

77 0.1 24.3 36.5#

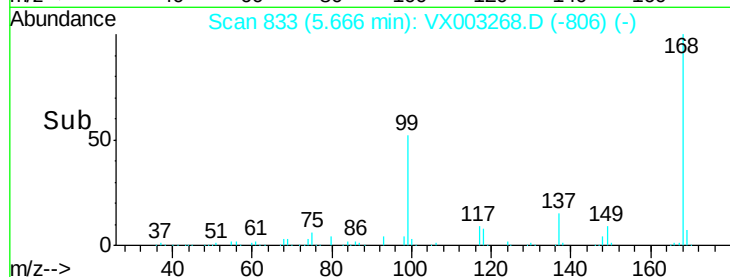


Abundance Ion 74.90 (74.60 to 75.60): VX003242.D (-845) (-)

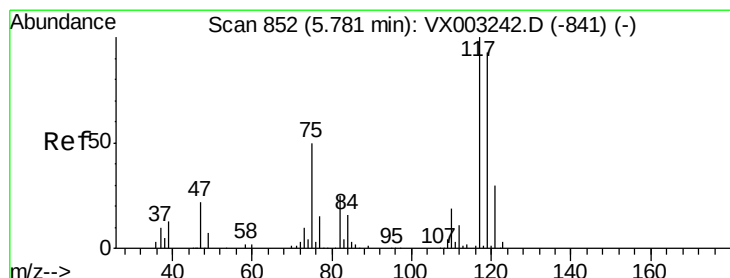
Ion 109.90 (109.60 to 110.60): VX003242.D (-845) (-)

Ion 76.90 (76.60 to 77.60): VX003242.D (-845) (-)

Time-->



Time-->



#38

Carbon Tetrachloride

Concen: 4.05 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003268.D

Acq: 10 Jul 2018 02:17

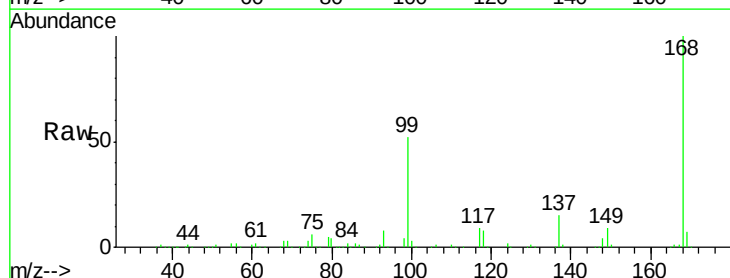
Tgt Ion: 117 Resp: 23276

Ion Ratio Lower Upper

117 100

119 5.1 77.4 116.0#

121 0.0 24.4 36.6#

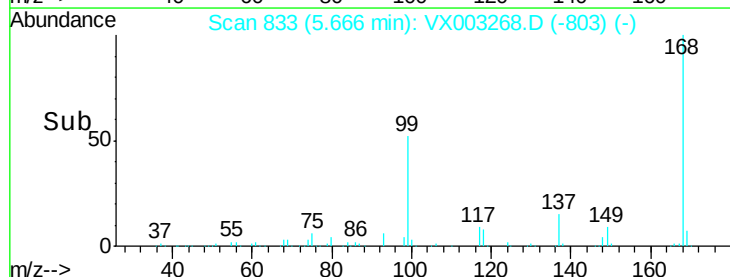


Abundance Ion 116.80 (116.50 to 117.50): VX003242.D (-841) (-)

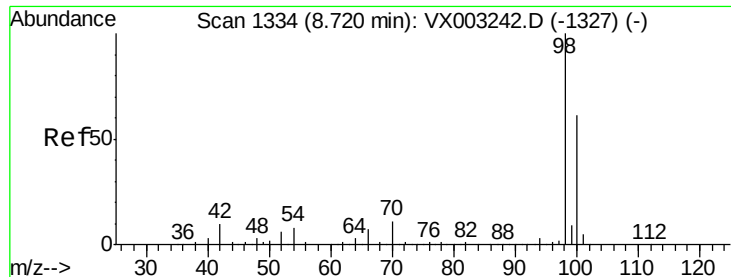
Ion 118.80 (118.50 to 119.50): VX003242.D (-841) (-)

Ion 120.80 (120.50 to 121.50): VX003242.D (-841) (-)

Time-->



Time-->



#50

Toluene-d8

Concen: 36.40 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003268.D

Acq: 10 Jul 2018 02:17

Instrument :

MSVOA_X

ClientSampleId :

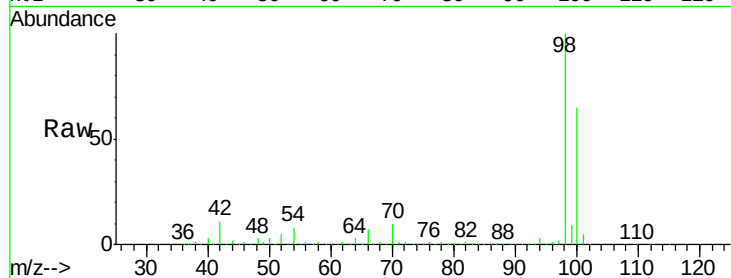
PB110911ZHE#14

Tot Ion: 98 Resp: 515224

Ion Ratio Lower Upper

98 100

100 64.5 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.72

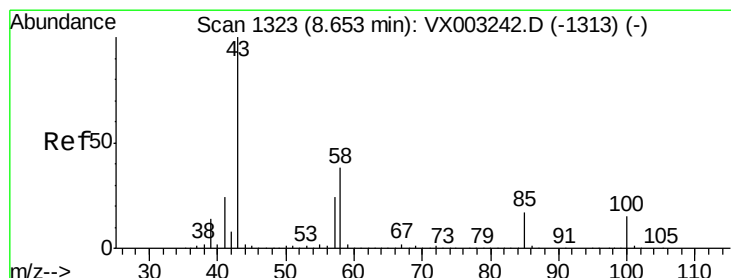
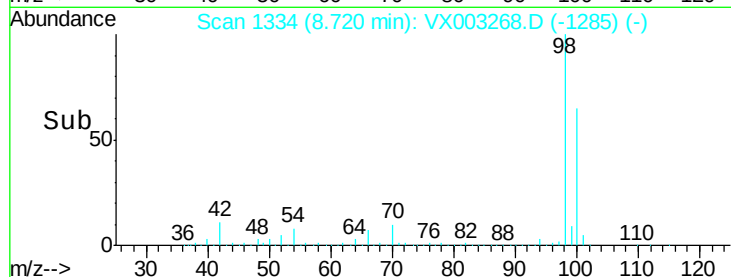
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.35 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. -0.01 min

Lab File: VX003268.D

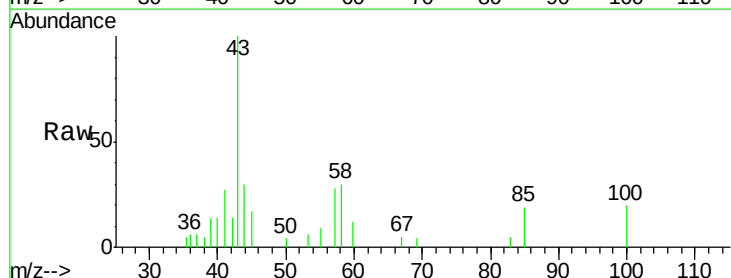
Acq: 10 Jul 2018 02:17

Tgt Ion: 43 Resp: 1943

Ion Ratio Lower Upper

43 100

58 37.3 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

3000

2500

2000

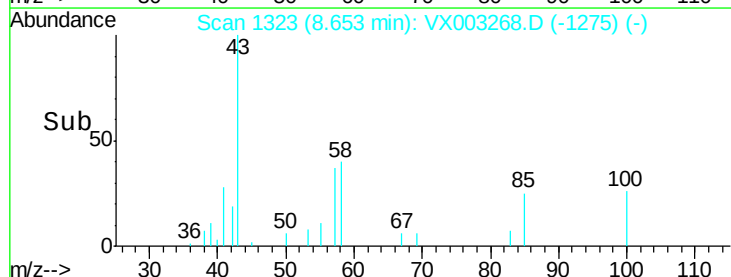
1500

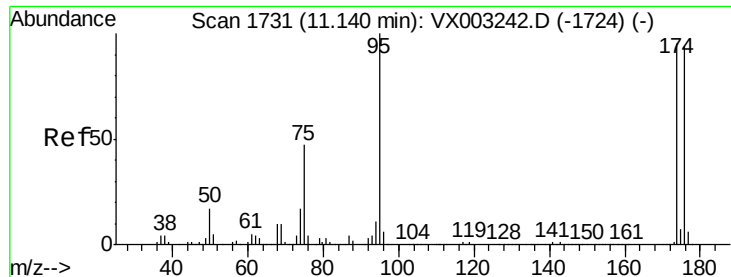
1000

500

0

Time-->





#62

4-Bromofluorobenzene

Concen: 34.46 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003268.D

Acq: 10 Jul 2018 02:17

Instrument :

MSVOA_X

ClientSampleId :

PB110911ZHE#14

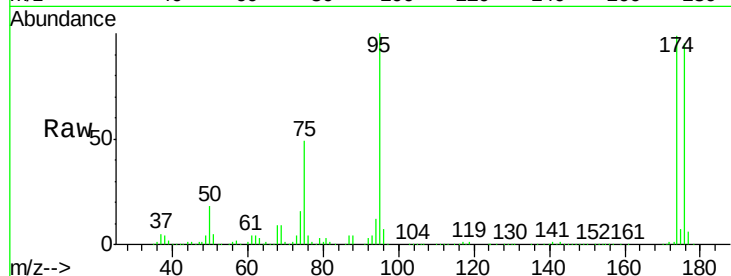
Tot Ion: 95 Resp: 180263

Ion Ratio Lower Upper

95 100

174 102.7 0.0 187.4

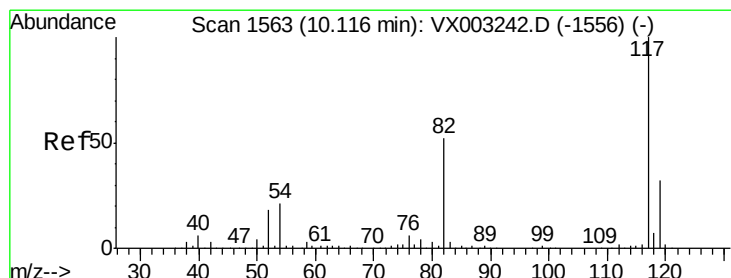
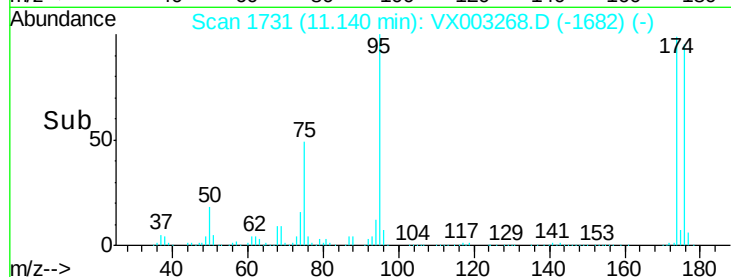
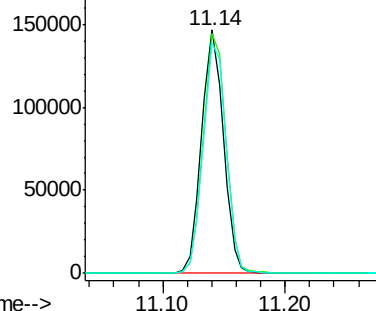
176 99.0 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX003268.D (-1682) (-)

Ion 173.80 (173.50 to 174.50): VX003268.D (-1682) (-)

Ion 175.80 (175.50 to 176.50): VX003268.D (-1682) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX003268.D

Acq: 10 Jul 2018 02:17

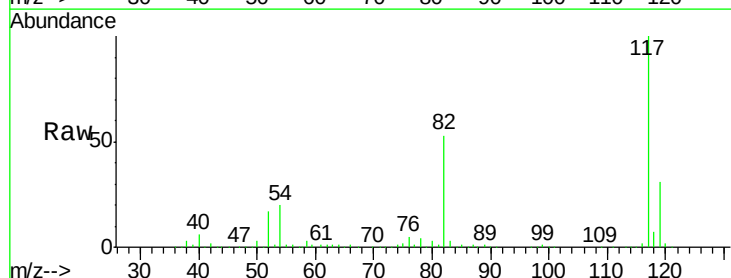
Tgt Ion: 117 Resp: 346868

Ion Ratio Lower Upper

117 100

82 52.8 45.0 67.4

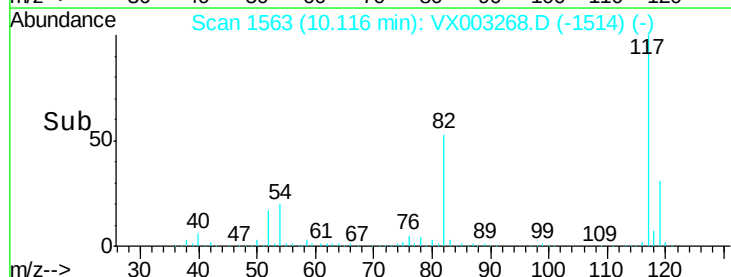
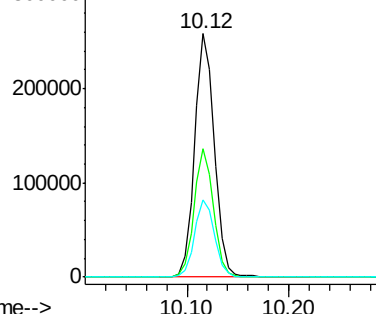
119 31.5 25.8 38.6

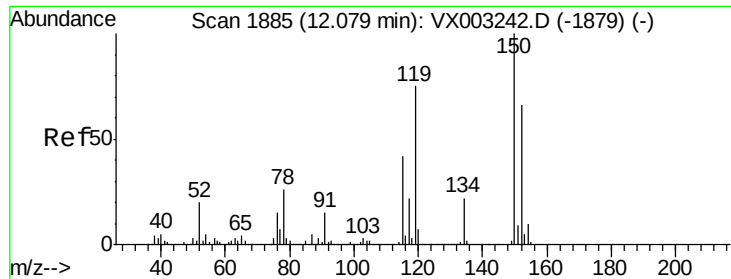


Abundance Ion 116.90 (116.60 to 117.60): VX003268.D (-1514) (-)

Ion 82.00 (81.70 to 82.70): VX003268.D (-1514) (-)

Ion 118.90 (118.60 to 119.60): VX003268.D (-1514) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003268.D

Acq: 10 Jul 2018 02:17

Instrument :

MSVOA_X

ClientSampleId :

PB110911ZHE#14

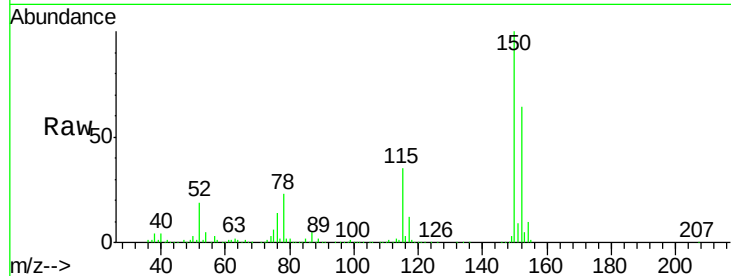
Tot Ion:152 Resp: 196432

Ion Ratio Lower Upper

152 100

115 53.6 40.1 120.2

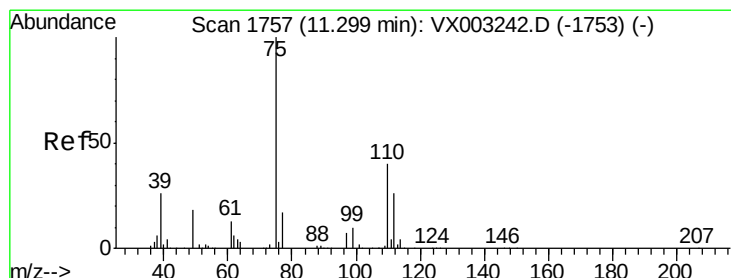
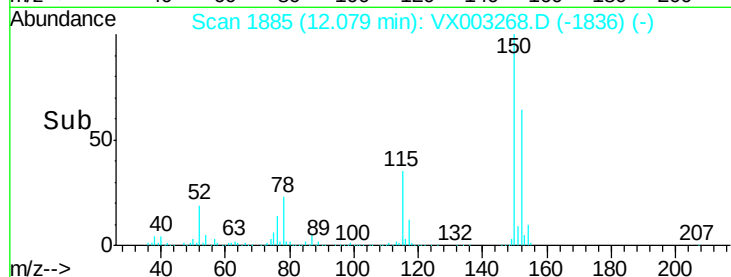
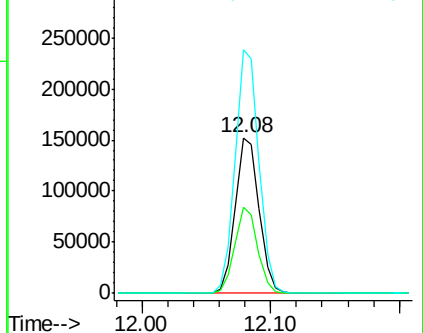
150 155.7 0.0 347.2



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: 20.84 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003268.D

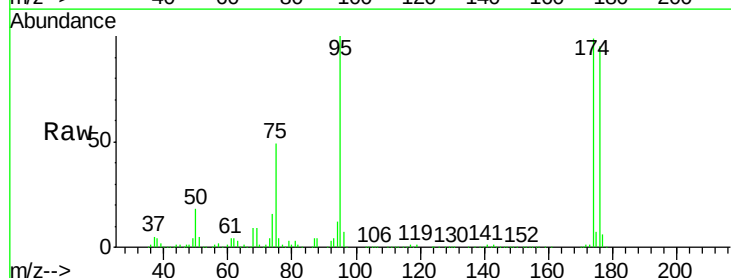
Acq: 10 Jul 2018 02:17

Tgt Ion: 75 Resp: 88476

Ion Ratio Lower Upper

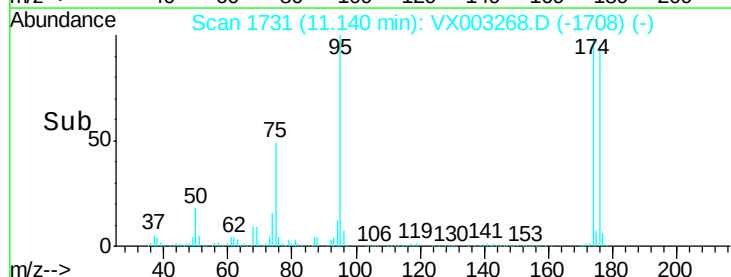
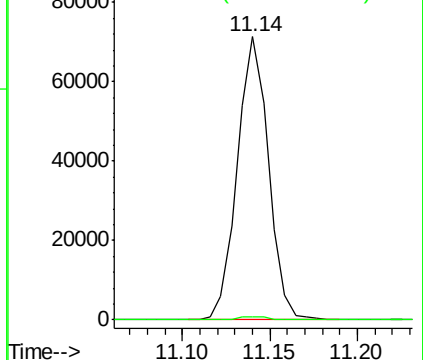
75 100

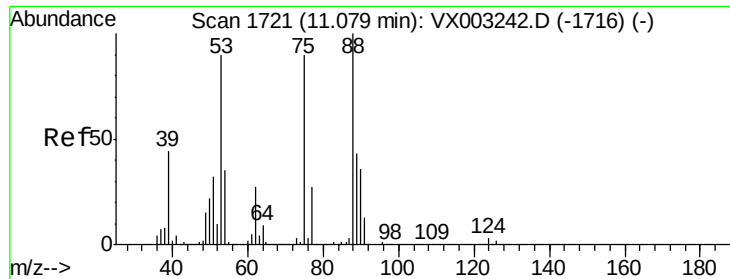
77 1.2 22.8 68.3#



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: 68.12 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003268.D

Acq: 10 Jul 2018 02:17

Instrument :

MSVOA_X

ClientSampleId :

PB110911ZHE#14

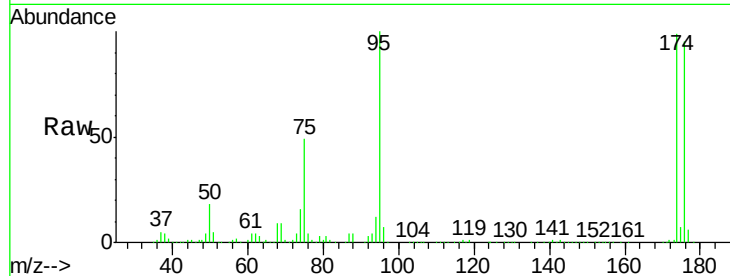
Tot Ion: 75 Resp: 88476

Ion Ratio Lower Upper

75 100

53 0.3 86.8 130.2#

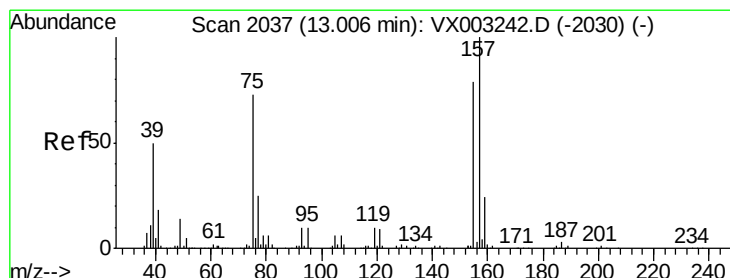
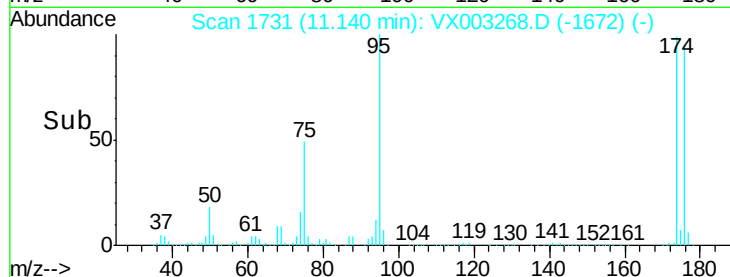
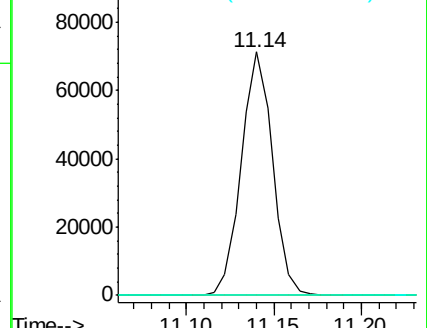
89 0.0 38.2 57.2#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.23 ug/l

RT: 12.98 min Scan# 2033

Delta R.T. -0.02 min

Lab File: VX003268.D

Acq: 10 Jul 2018 02:17

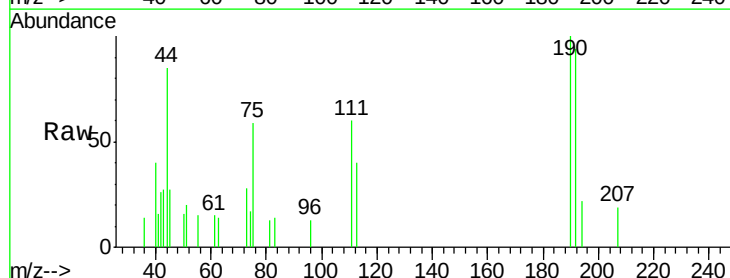
Tgt Ion: 75 Resp: 236

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

