

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071118\
 Data File : VX003331.D
 Acq On : 11 Jul 2018 20:22
 Operator : JC/MD
 Sample : PB110983ZHE#05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB110983ZHE#05

Quant Time: Jul 12 00:58:19 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	250818	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	386877	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	365213	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	196907	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	174043	44.09	ug/l	0.00
Spiked Amount			Recovery	=	88.18%	
35) Dibromofluoromethane	5.51	113	145583	35.03	ug/l	0.00
Spiked Amount			Recovery	=	70.06%	
50) Toluene-d8	8.72	98	559877	37.92	ug/l	0.00
Spiked Amount			Recovery	=	75.84%	
62) 4-Bromofluorobenzene	11.14	95	190581	34.94	ug/l	0.00
Spiked Amount			Recovery	=	69.88%	

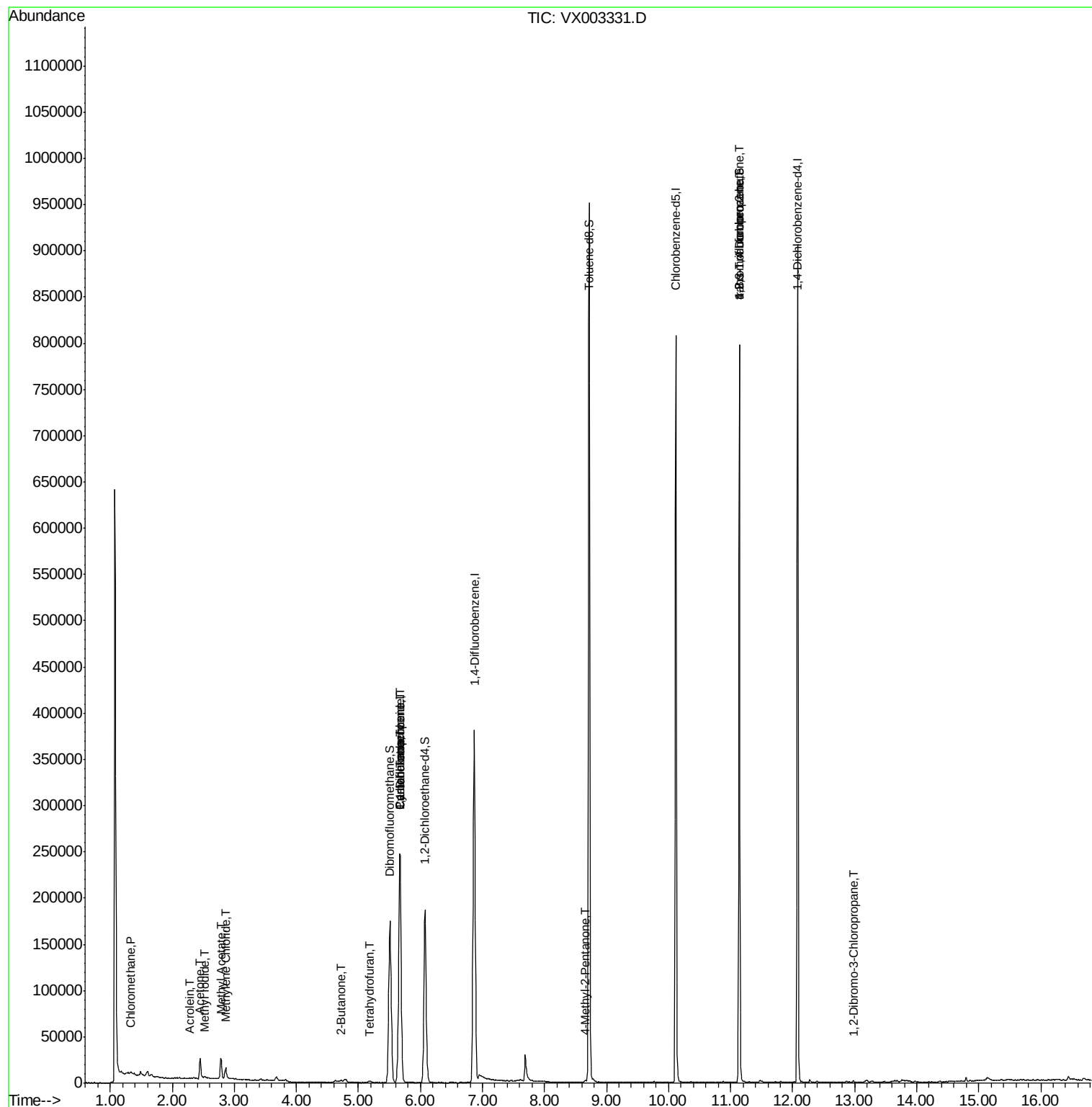
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	745	0.21	ug/l	# 43
5) Bromomethane	1.65	94	1979	Below	Cal	98
10) Methyl Iodide	2.53	142	2016	6.17	ug/l	98
13) Acrolein	2.29	56	170	0.29	ug/l	# 52
16) Acetone	2.45	43	23042	16.44	ug/l	# 89
18) Methyl Acetate	2.78	43	28566	7.23	ug/l	96
20) Methylene Chloride	2.86	84	5723	1.31	ug/l	# 83
25) 2-Butanone	4.72	43	5031	2.03	ug/l	# 83
29) Tetrahydrofuran	5.18	42	1922	1.19	ug/l	97
31) Cyclohexane	5.67	56	4775	0.92	ug/l	# 1
36) 1,1-Dichloropropene	5.67	75	17684	3.23	ug/l	# 49
38) Carbon Tetrachloride	5.67	117	22703	3.79	ug/l	# 16
51) 4-Methyl-2-Pentanone	8.65	43	1717	0.29	ug/l	99
76) 1,2,3-Trichloropropane	11.14	75	95594	22.46	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	95594	73.42	ug/l	# 7
92) 1,2-Dibromo-3-Chloropropan	12.98	75	331	0.32	ug/l	# 1

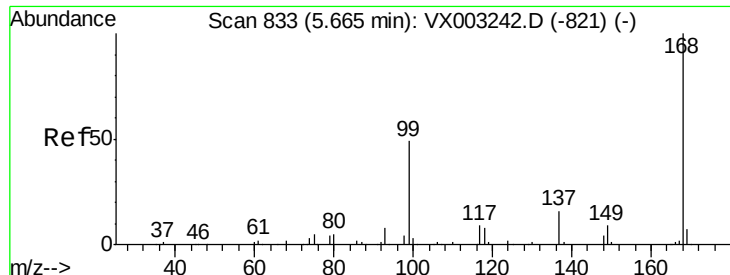
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX003331.D

Acq: 11 Jul 2018 20:22

Instrument :

MSVOA_X

ClientSampleId :

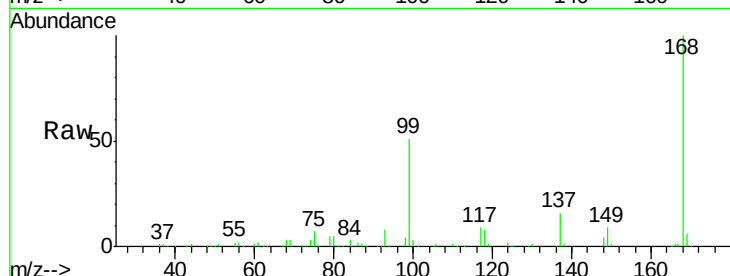
PB110983ZHE#05

Tot Ion:168 Resp: 250818

Ion Ratio Lower Upper

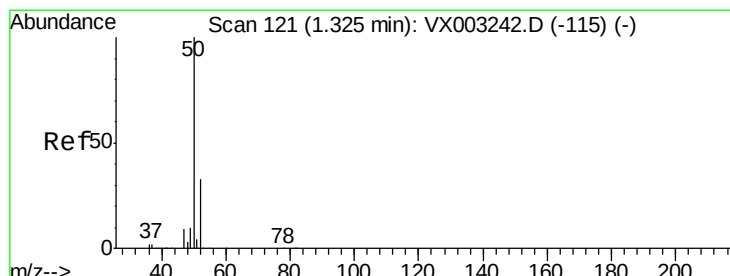
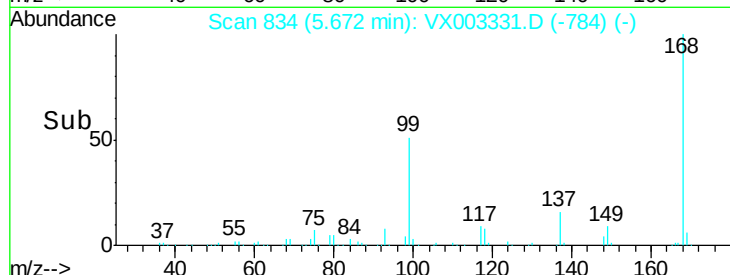
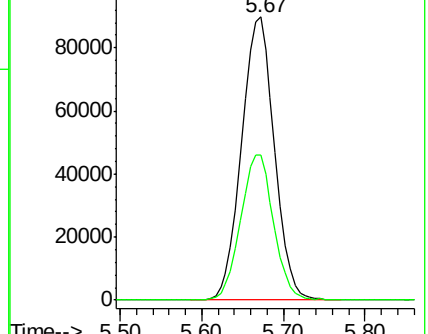
168 100

99 51.3 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: 0.21 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX003331.D

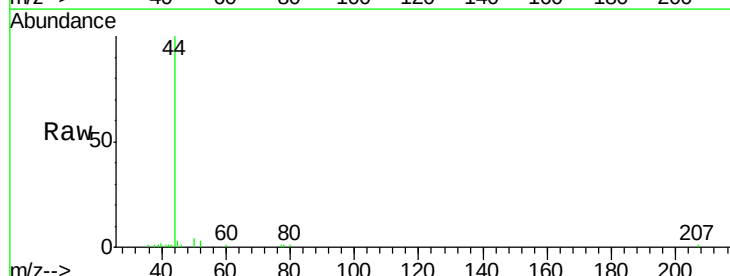
Acq: 11 Jul 2018 20:22

Tgt Ion: 50 Resp: 745

Ion Ratio Lower Upper

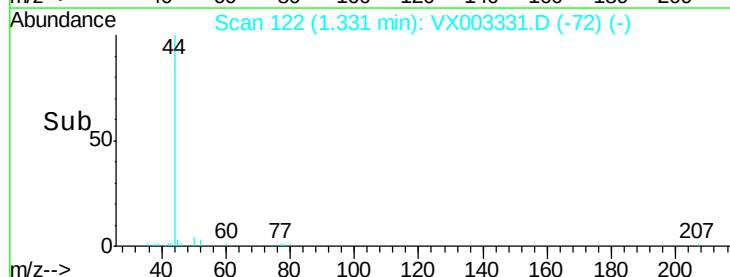
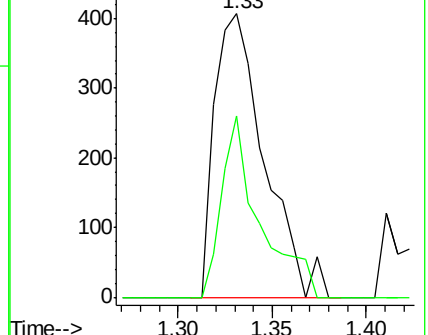
50 100

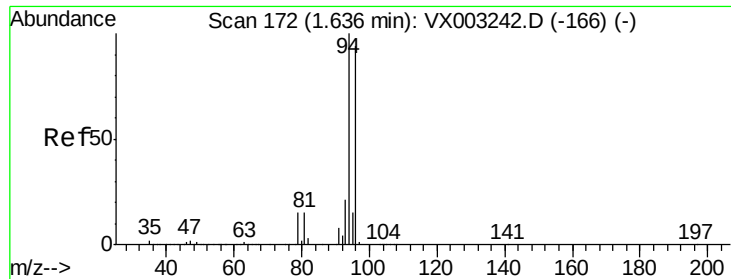
52 64.1 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003331.D

Acq: 11 Jul 2018 20:22

Instrument :

MSVOA_X

ClientSampleId :

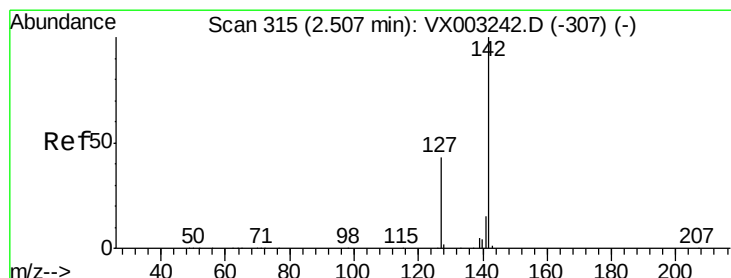
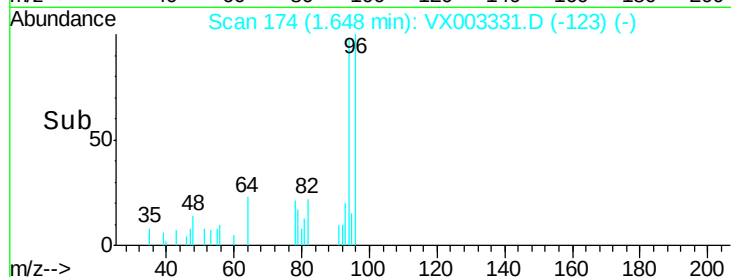
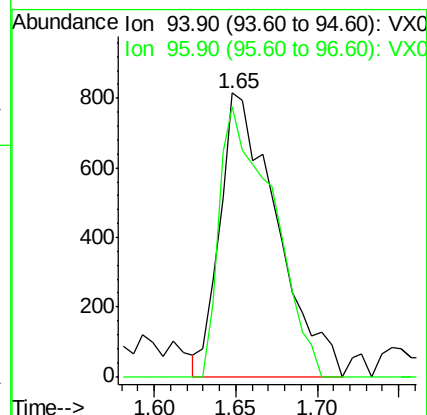
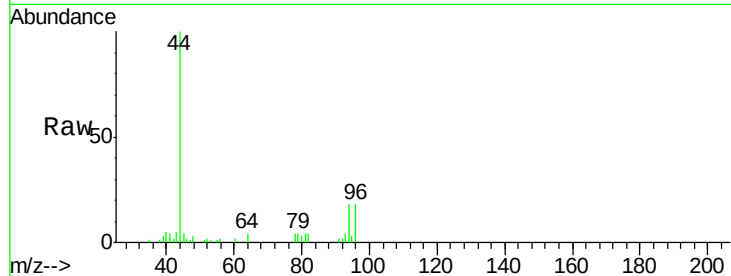
PB110983ZHE#05

Tot Ion: 94 Resp: 1979

Ion Ratio Lower Upper

94 100

96 95.2 74.9 112.3



#10

Methyl Iodide

Concen: 6.17 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.02 min

Lab File: VX003331.D

Acq: 11 Jul 2018 20:22

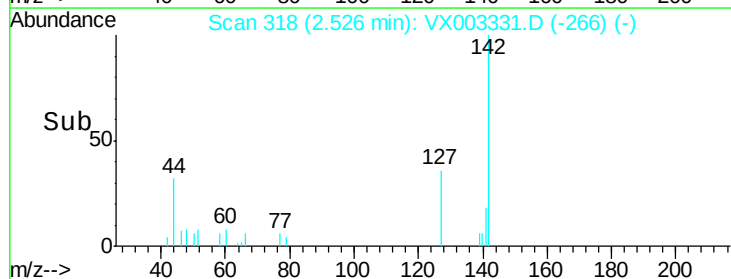
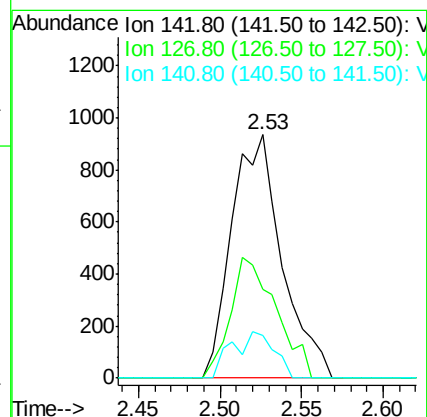
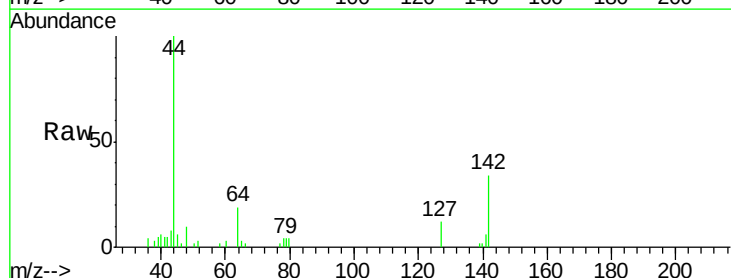
Tgt Ion:142 Resp: 2016

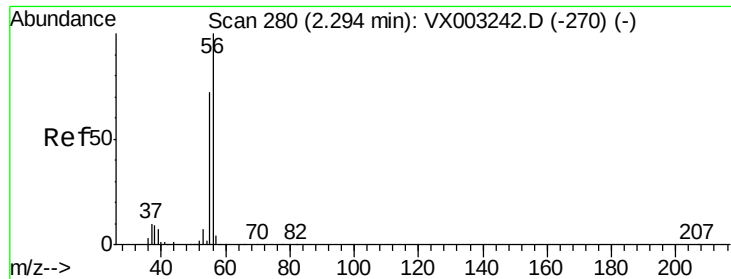
Ion Ratio Lower Upper

142 100

127 45.0 36.6 55.0

141 16.1 11.3 16.9





#13

Acrolein

Concen: 0.29 ug/l

RT: 2.29 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX003331.D

Acq: 11 Jul 2018 20:22

Instrument :

MSVOA_X

ClientSampleId :

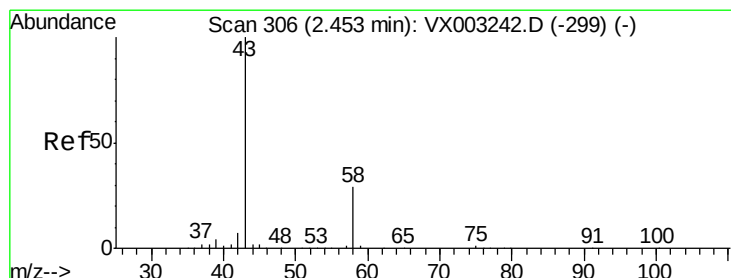
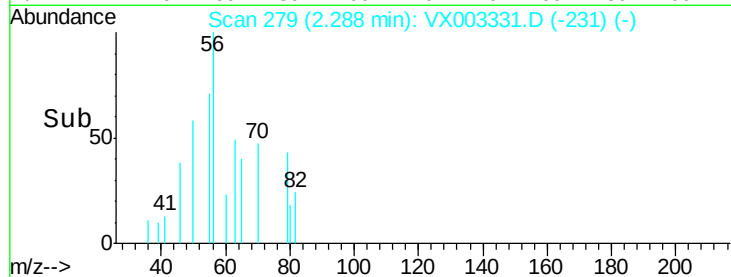
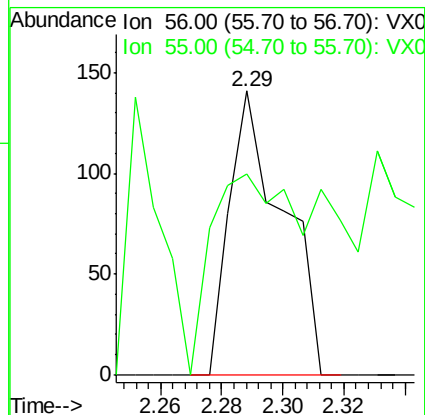
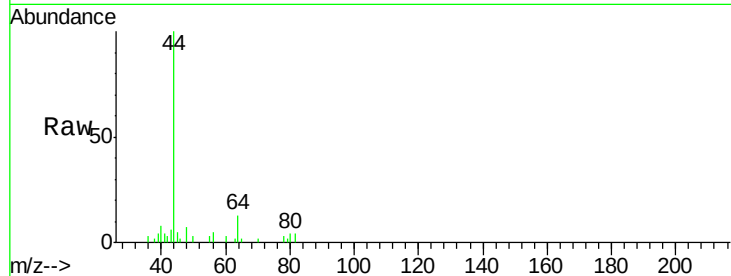
PB110983ZHE#05

Tot Ion: 56 Resp: 170

Ion Ratio Lower Upper

56 100

55 110.6 57.0 85.4#



#16

Acetone

Concen: 16.44 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX003331.D

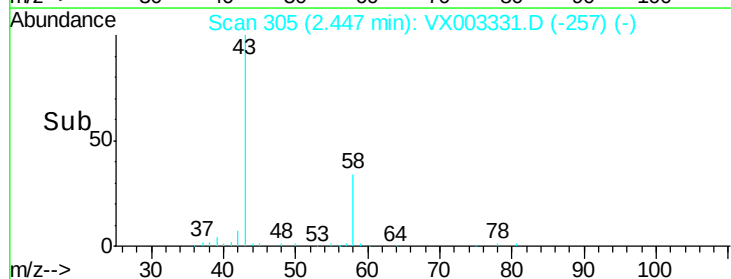
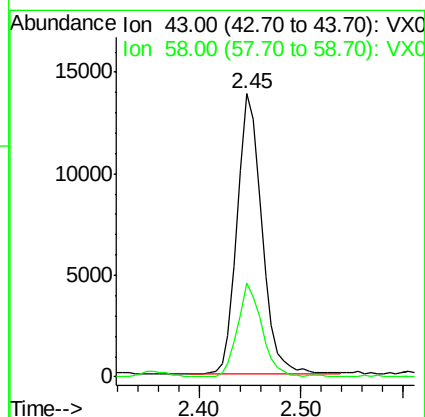
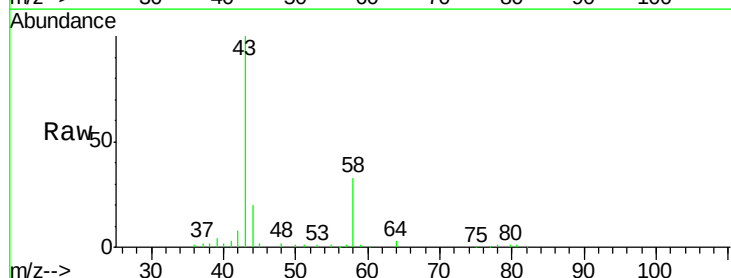
Acq: 11 Jul 2018 20:22

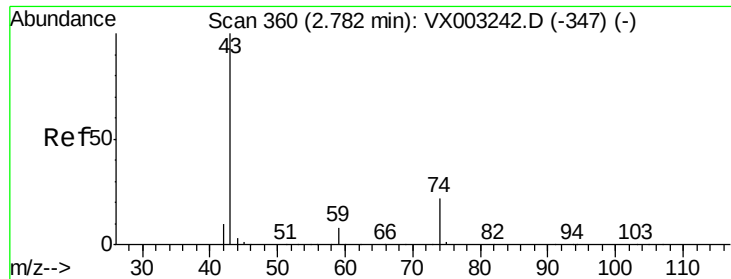
Tgt Ion: 43 Resp: 23042

Ion Ratio Lower Upper

43 100

58 33.5 22.1 33.1#





#18

Methyl Acetate

Concen: 7.23 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX003331.D

Acq: 11 Jul 2018 20:22

Instrument :

MSVOA_X

ClientSampleId :

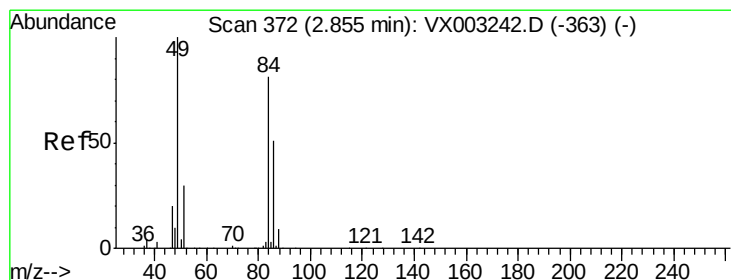
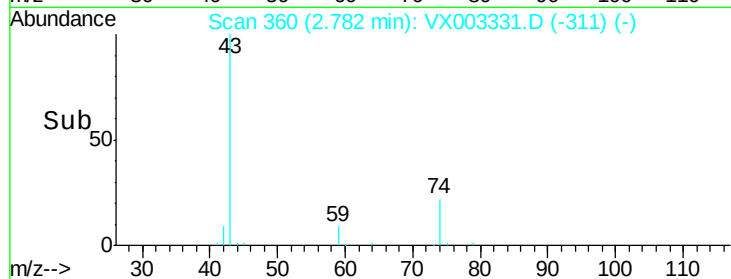
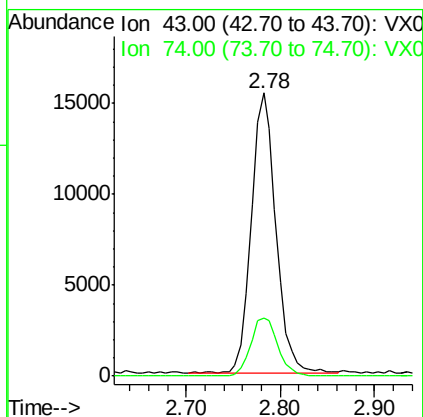
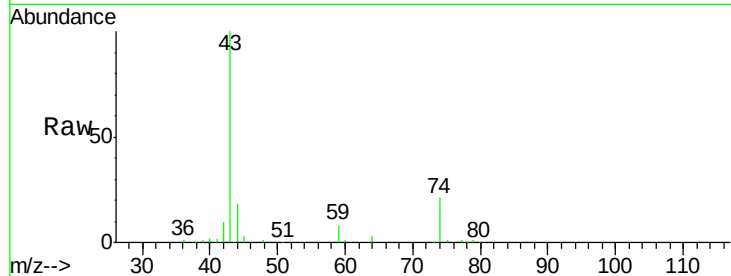
PB110983ZHE#05

Tot Ion: 43 Resp: 28566

Ion Ratio Lower Upper

43 100

74 22.8 16.7 25.1



#20

Methylene Chloride

Concen: 1.31 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX003331.D

Acq: 11 Jul 2018 20:22

Tgt Ion: 84 Resp: 5723

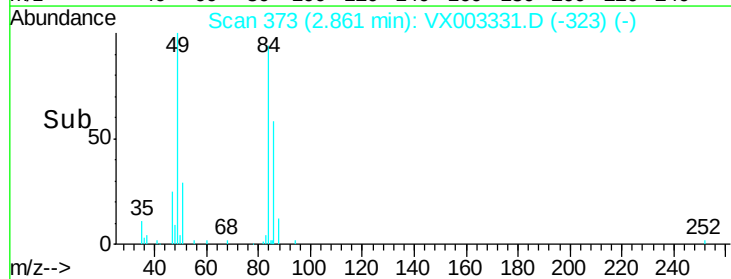
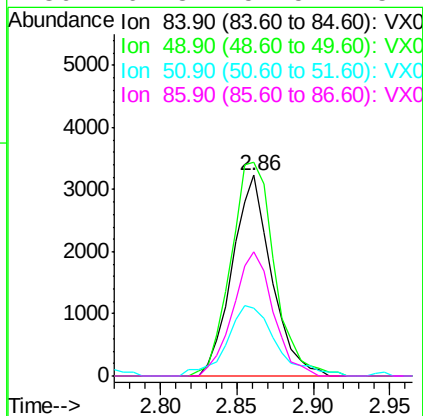
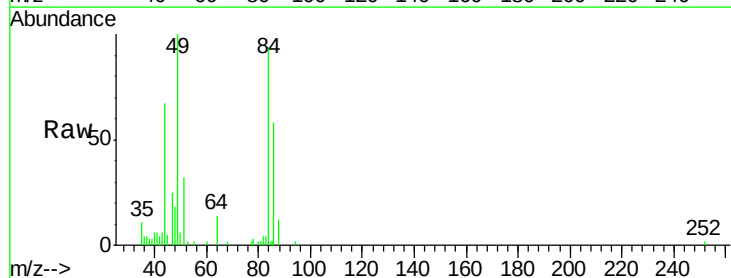
Ion Ratio Lower Upper

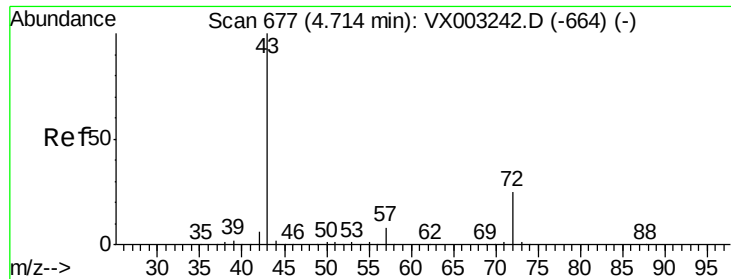
84 100

49 106.5 107.8 161.6#

51 31.4 32.8 49.2#

86 61.8 52.5 78.7





#25

2-Butanone

Concen: 2.03 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX003331.D

Acq: 11 Jul 2018 20:22

Instrument :

MSVOA_X

ClientSampleId :

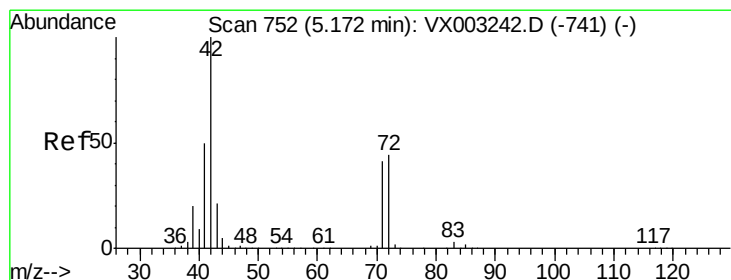
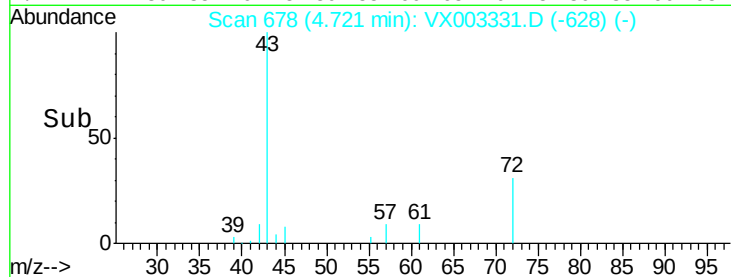
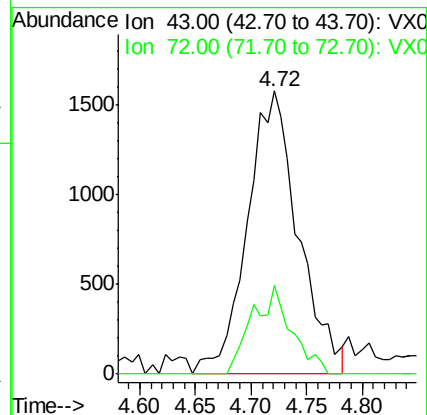
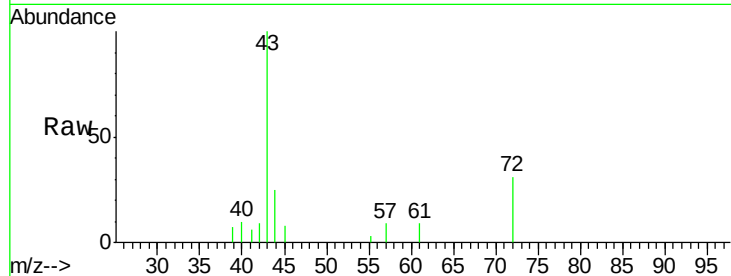
PB110983ZHE#05

Tot Ion: 43 Resp: 5031

Ion Ratio Lower Upper

43 100

72 31.3 18.5 27.7#



#29

Tetrahydrofuran

Concen: 1.19 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.01 min

Lab File: VX003331.D

Acq: 11 Jul 2018 20:22

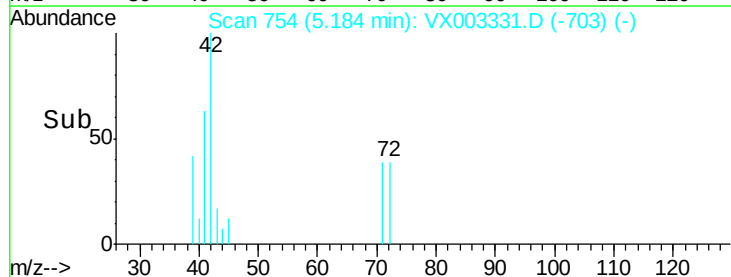
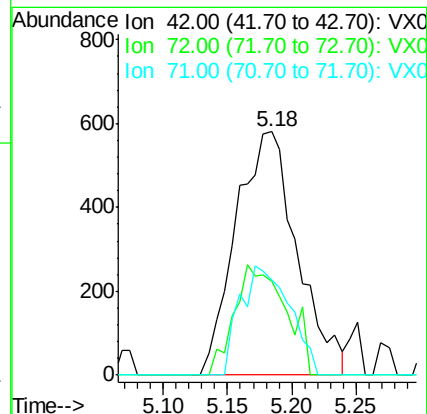
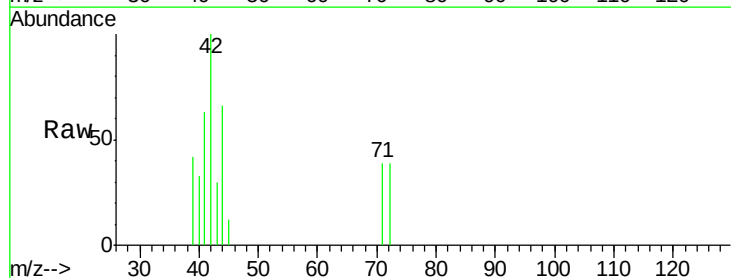
Tgt Ion: 42 Resp: 1922

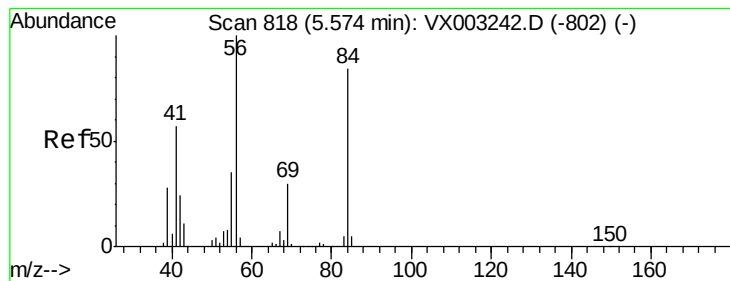
Ion Ratio Lower Upper

42 100

72 37.9 32.0 48.0

71 36.3 30.1 45.1





#31

Cyclohexane

Concen: 0.92 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX003331.D

Acq: 11 Jul 2018 20:22

Instrument :

MSVOA_X

ClientSampleId :

PB110983ZHE#05

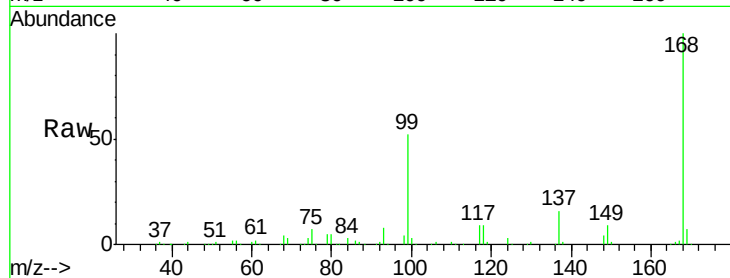
Tot Ion: 56 Resp: 4775

Ion Ratio Lower Upper

56 100

69 160.5 23.7 35.5#

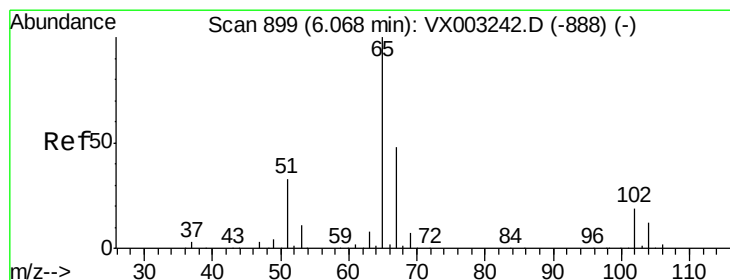
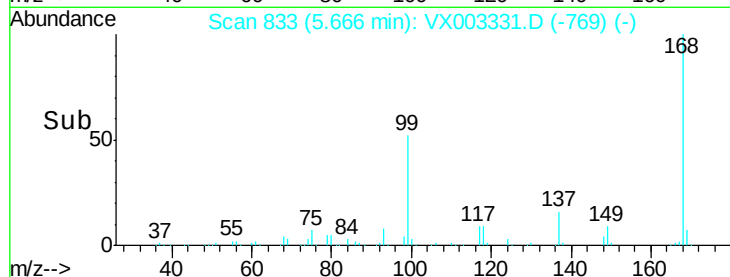
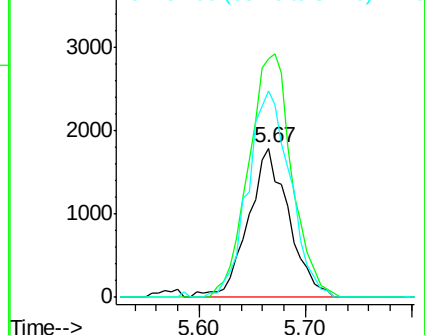
84 138.2 64.1 96.1#



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: 44.09 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX003331.D

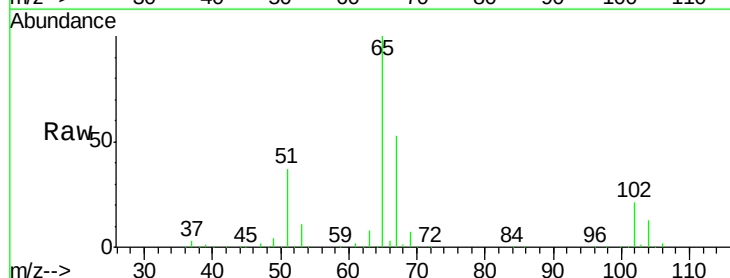
Acq: 11 Jul 2018 20:22

Tgt Ion: 65 Resp: 174043

Ion Ratio Lower Upper

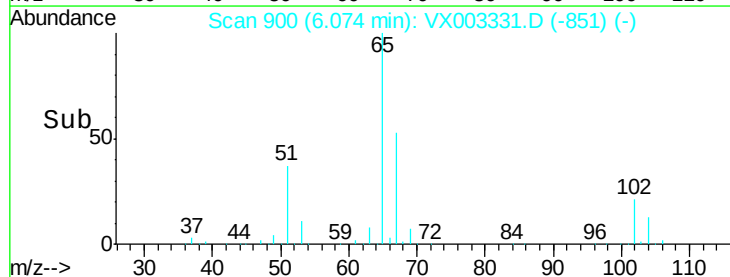
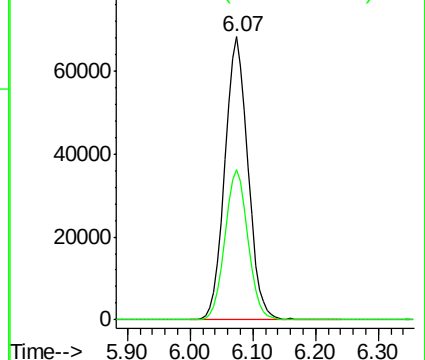
65 100

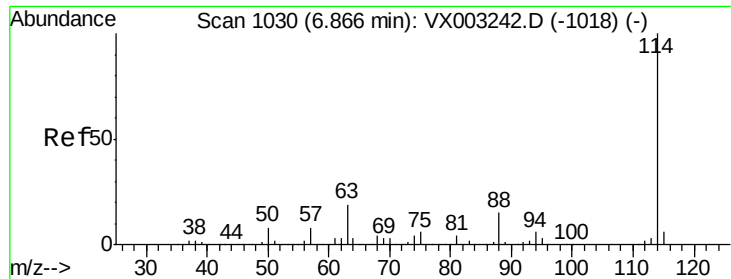
67 52.8 0.0 102.6



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: VX003331.D

Acq: 11 Jul 2018 20:22

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PB110983ZHE#05

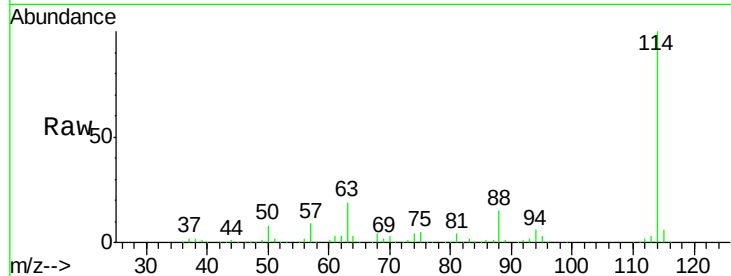
Tot Ion:114 Resp: 386877

Ion Ratio Lower Upper

114 100

63 19.2 0.0 41.4

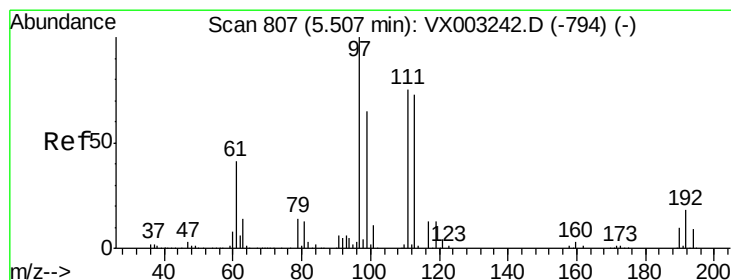
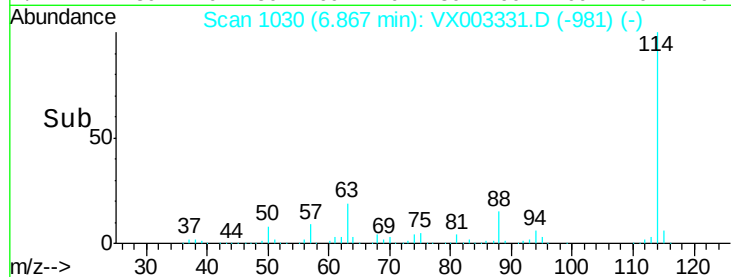
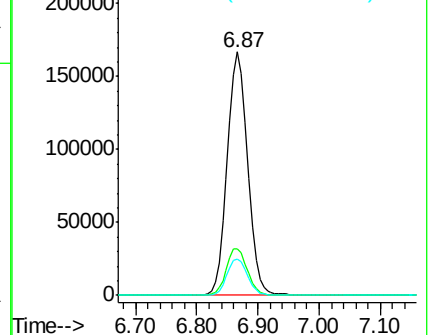
88 15.0 0.0 30.0



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: 35.03 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003331.D

Acq: 11 Jul 2018 20:22

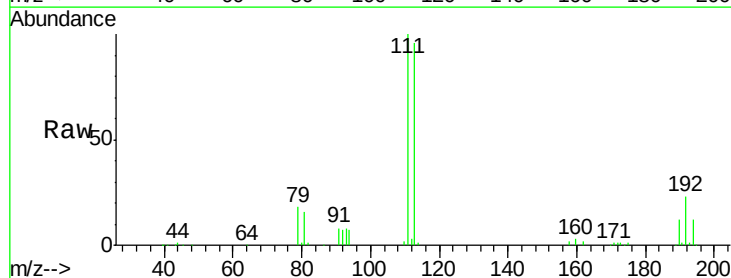
Tgt Ion:113 Resp: 145583

Ion Ratio Lower Upper

113 100

111 102.9 81.4 122.0

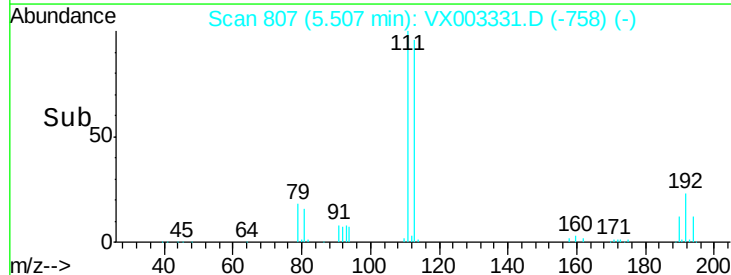
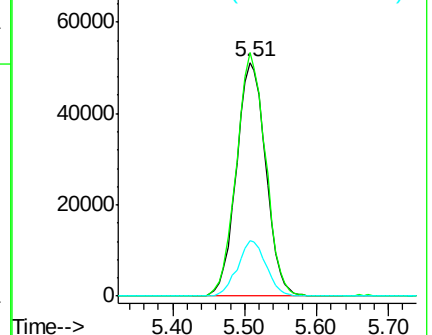
192 23.1 19.1 28.7

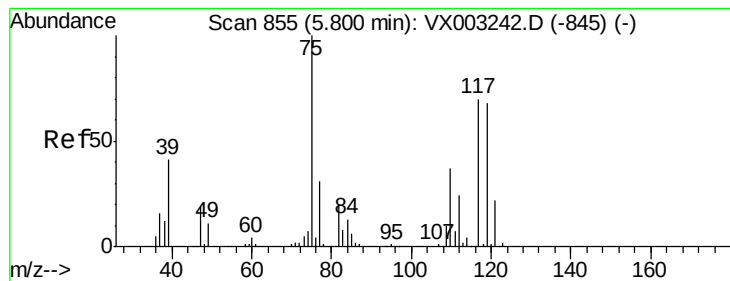


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.23 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX003331.D

Acq: 11 Jul 2018 20:22

Instrument :

MSVOA_X

ClientSampleId :

PB110983ZHE#05

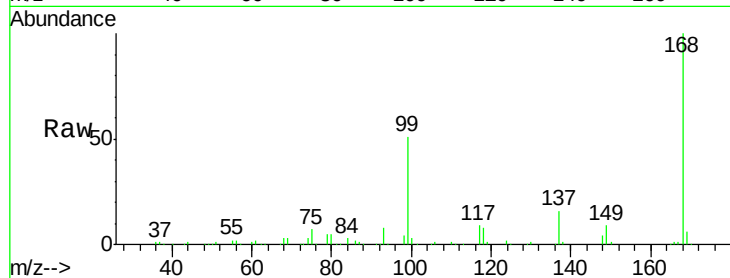
Tot Ion: 75 Resp: 17684

Ion Ratio Lower Upper

75 100

110 8.8 18.1 54.4#

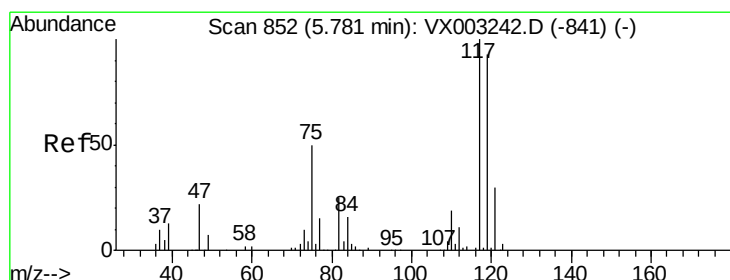
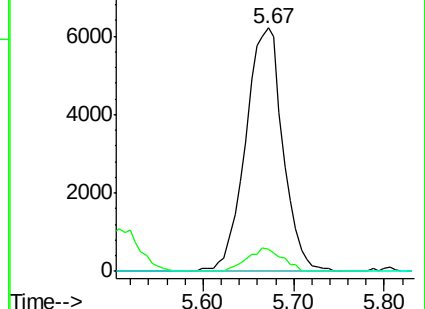
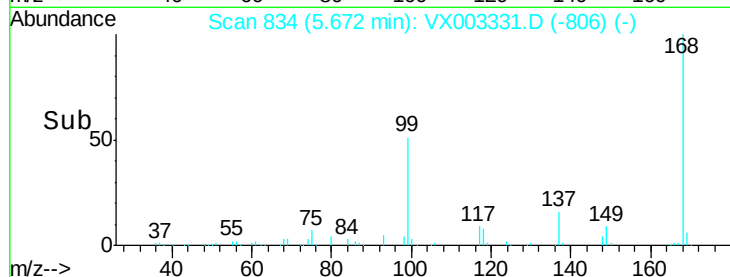
77 0.0 24.3 36.5#



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: 3.79 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003331.D

Acq: 11 Jul 2018 20:22

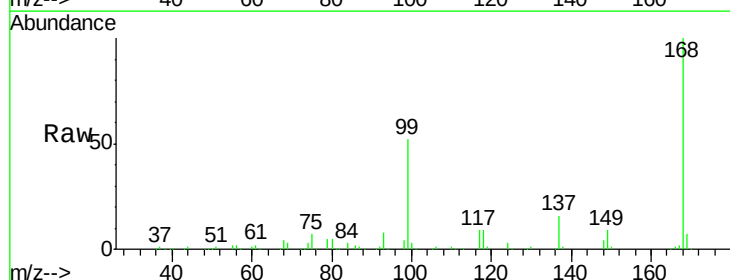
Tgt Ion:117 Resp: 22703

Ion Ratio Lower Upper

117 100

119 5.7 77.4 116.0#

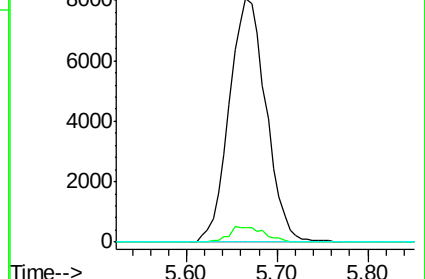
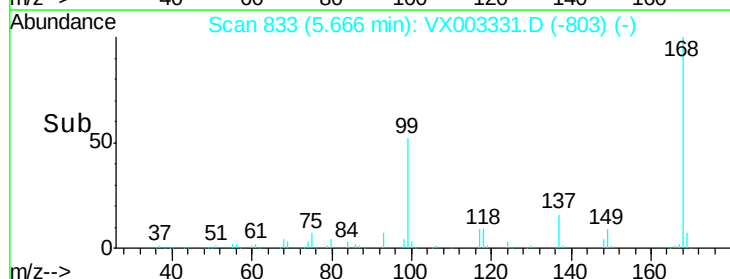
121 0.0 24.4 36.6#

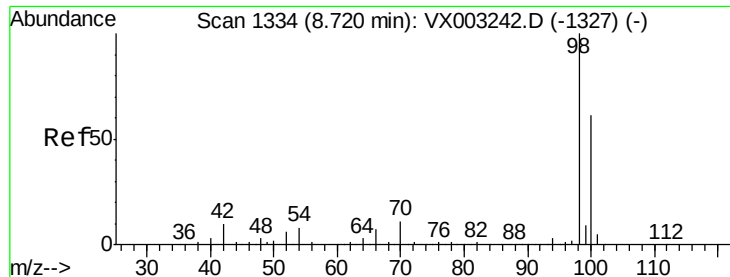


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

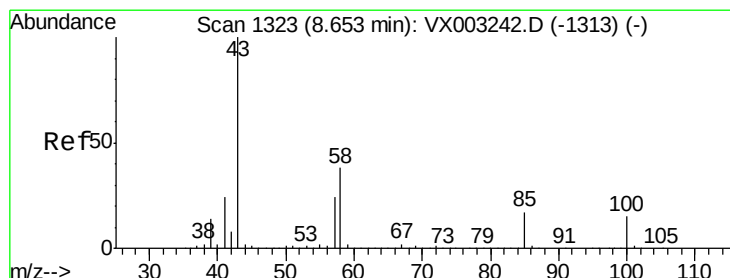
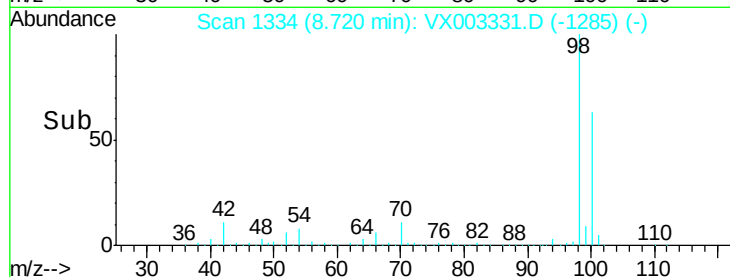
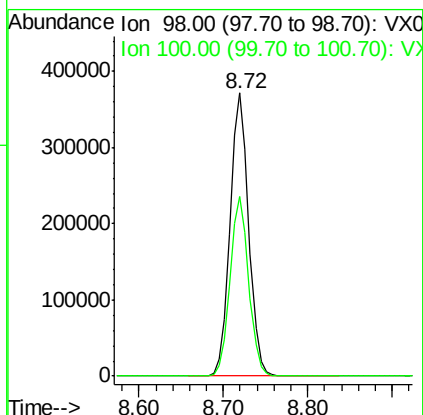
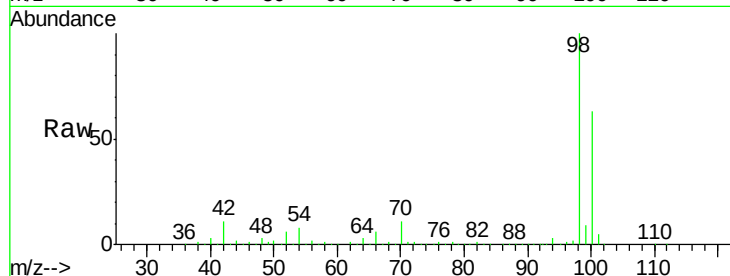




#50
Toluene-d8
Concen: 37.92 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003331.D
Acq: 11 Jul 2018 20:22

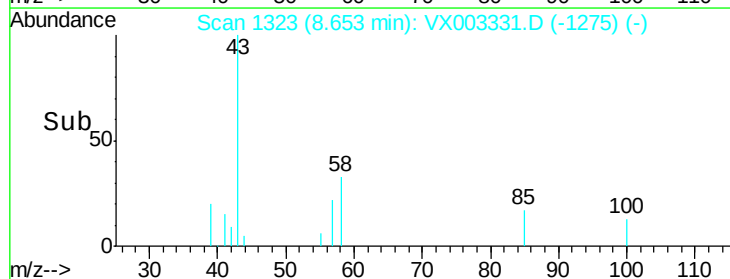
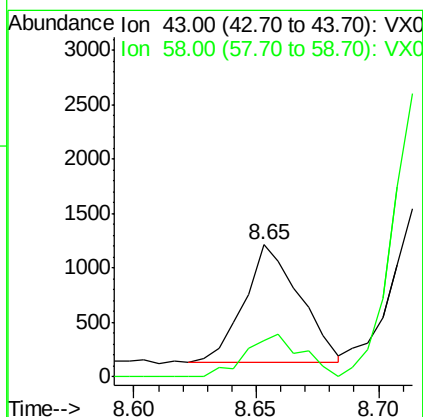
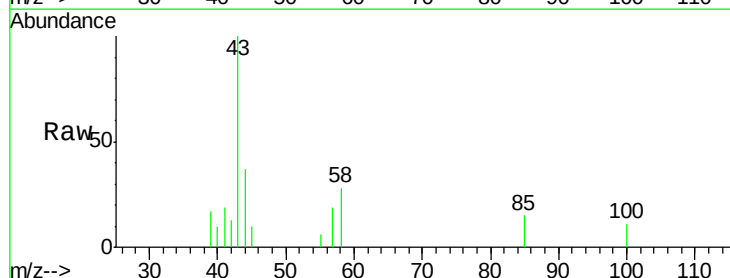
Instrument :
MSVOA_X
ClientSampleId :
PB110983ZHE#05

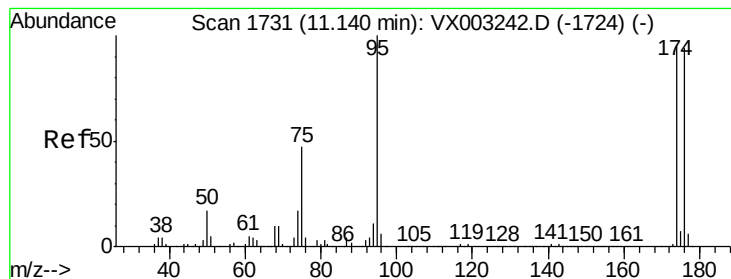
Tot Ion: 98 Resp: 559877
Ion Ratio Lower Upper
98 100
100 63.4 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.29 ug/l
RT: 8.65 min Scan# 1323
Delta R.T. -0.01 min
Lab File: VX003331.D
Acq: 11 Jul 2018 20:22

Tgt Ion: 43 Resp: 1717
Ion Ratio Lower Upper
43 100
58 36.3 28.6 42.8





#62

4-Bromofluorobenzene

Concen: 34.94 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003331.D

Acq: 11 Jul 2018 20:22

Instrument :

MSVOA_X

ClientSampleId :

PB110983ZHE#05

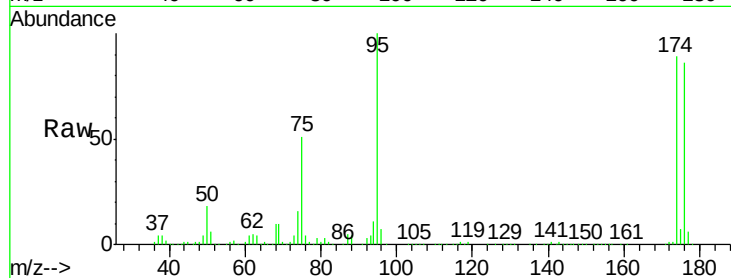
Tot Ion: 95 Resp: 190581

Ion Ratio Lower Upper

95 100

174 93.1 0.0 187.4

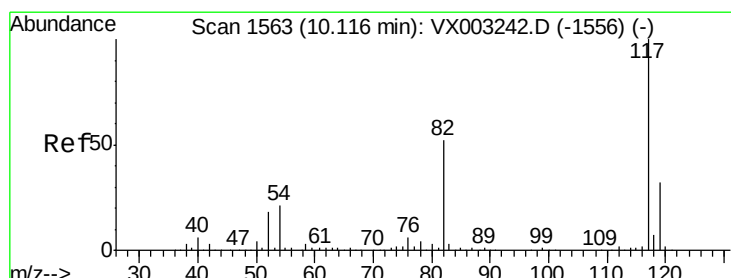
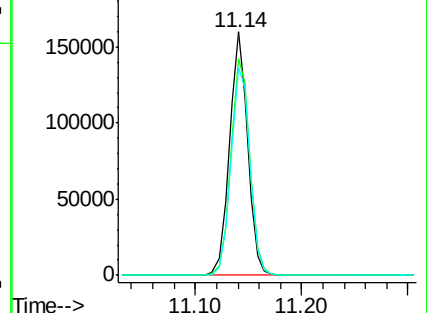
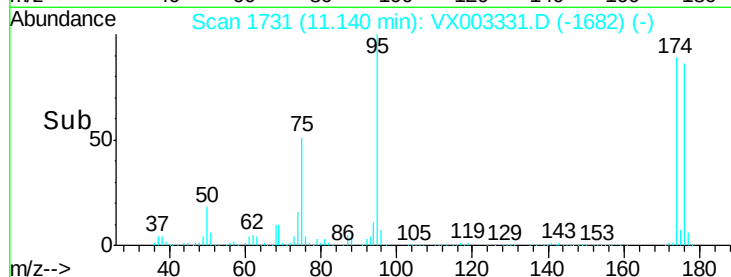
176 89.8 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX003331.D (-1682) (-)

Ion 173.80 (173.50 to 174.50): VX003331.D (-1682) (-)

Ion 175.80 (175.50 to 176.50): VX003331.D (-1682) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX003331.D

Acq: 11 Jul 2018 20:22

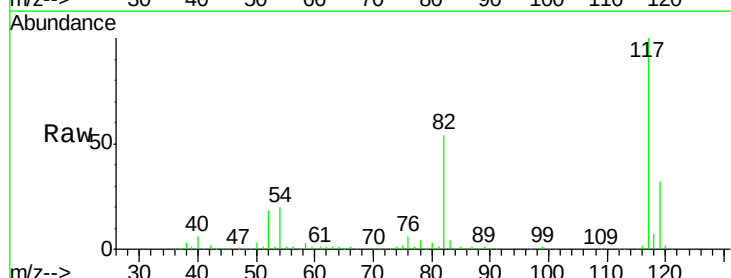
Tgt Ion: 117 Resp: 365213

Ion Ratio Lower Upper

117 100

82 54.4 45.0 67.4

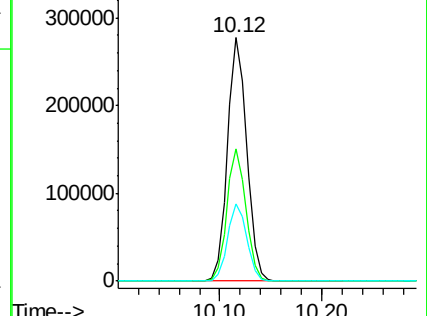
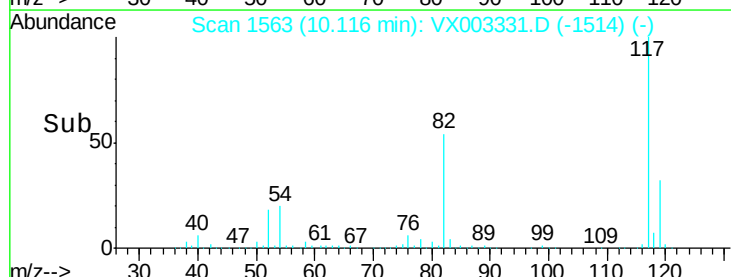
119 32.0 25.8 38.6

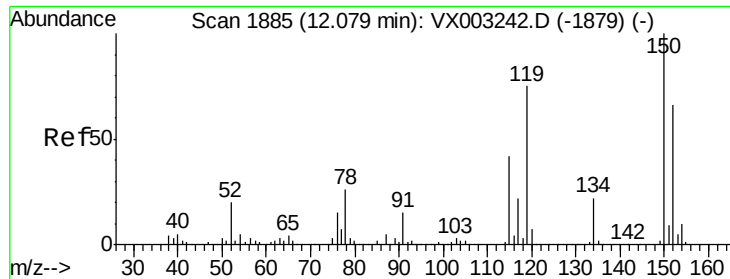


Abundance Ion 116.90 (116.60 to 117.60): VX003331.D (-1514) (-)

Ion 82.00 (81.70 to 82.70): VX003331.D (-1514) (-)

Ion 118.90 (118.60 to 119.60): VX003331.D (-1514) (-)

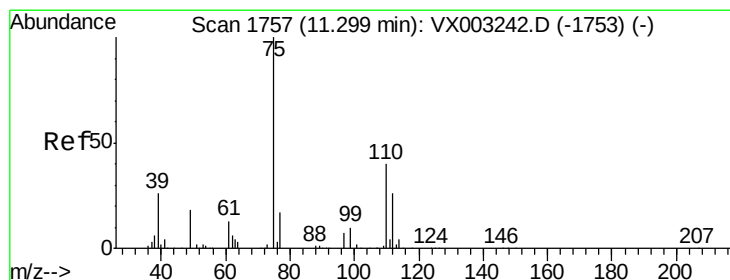
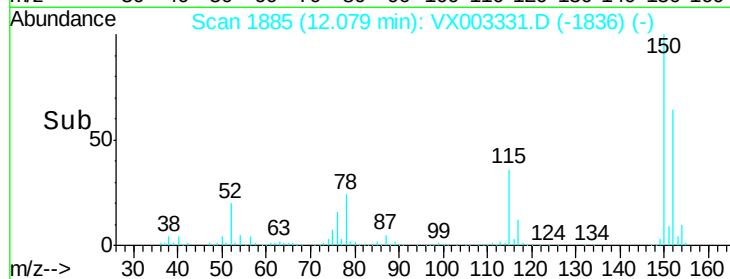
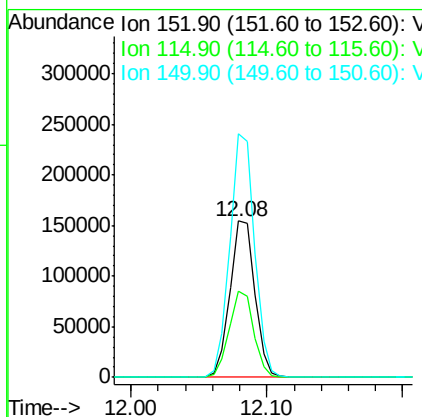
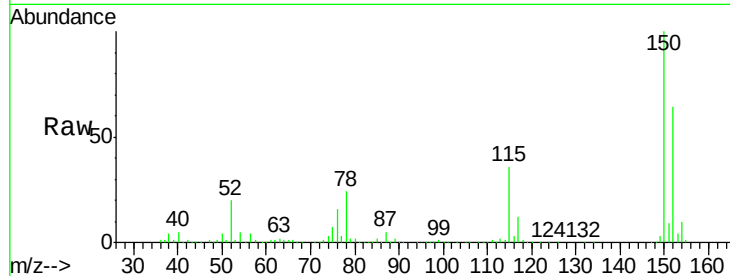




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.00 ug/l
 RT: 12.08 min Scan# 1885
 Delta R.T. 0.00 min
 Lab File: VX003331.D
 Acq: 11 Jul 2018 20:22

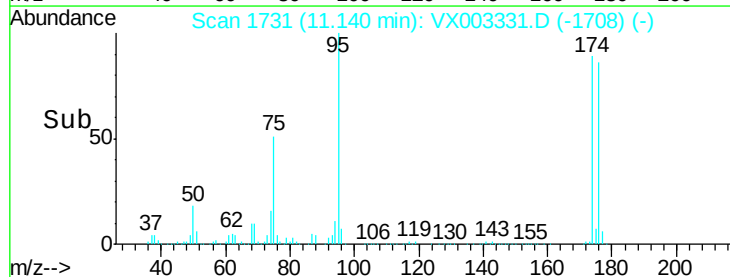
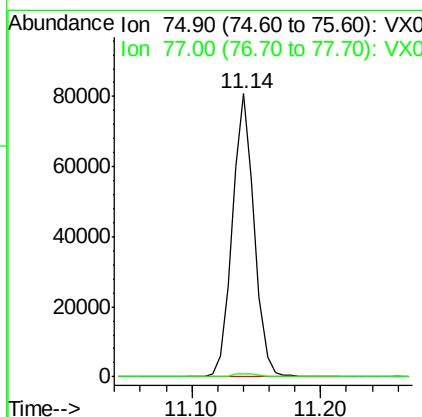
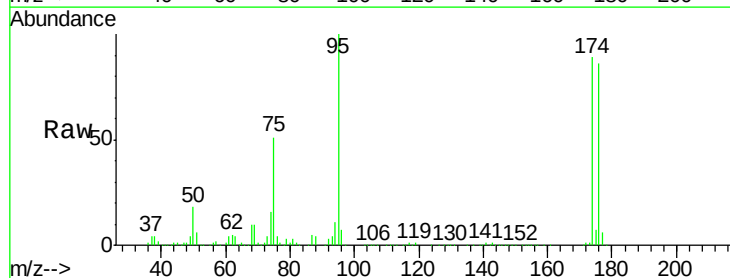
Instrument :
 MSVOA_X
 ClientSampleId :
 PB110983ZHE#05

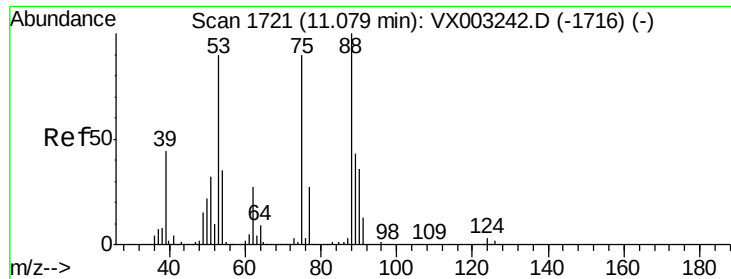
Tot Ion:152 Resp: 196907
 Ion Ratio Lower Upper
 152 100
 115 54.8 40.1 120.2
 150 155.1 0.0 347.2



#76
 1,2,3-Trichloropropane
 Concen: 22.46 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX003331.D
 Acq: 11 Jul 2018 20:22

Tgt Ion: 75 Resp: 95594
 Ion Ratio Lower Upper
 75 100
 77 1.4 22.8 68.3#





#81

trans-1,4-Dichloro-2-butene

Concen: 73.42 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003331.D

Acq: 11 Jul 2018 20:22

Instrument :

MSVOA_X

ClientSampleId :

PB110983ZHE#05

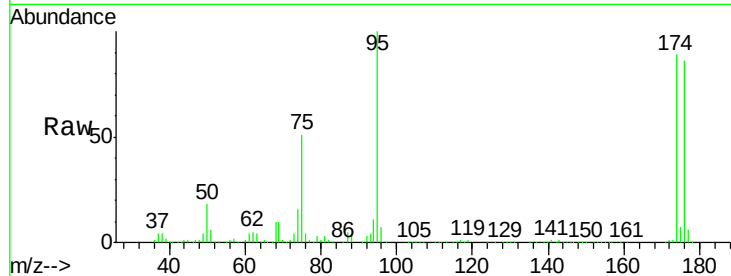
Tot Ion: 75 Resp: 95594

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

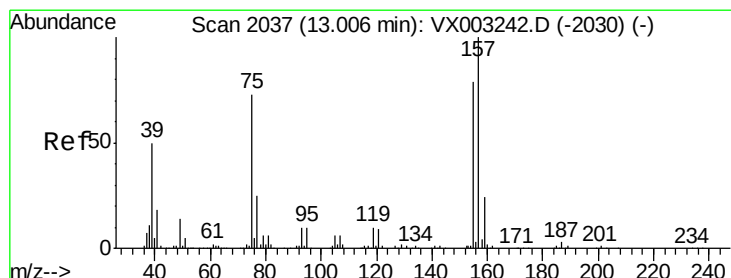
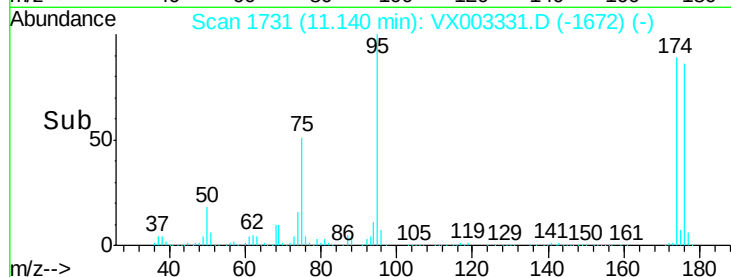
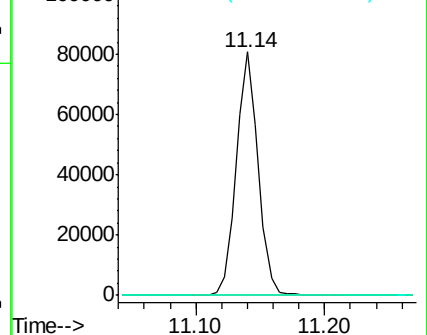
89 0.0 38.2 57.2#



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: 0.32 ug/l

RT: 12.98 min Scan# 2032

Delta R.T. -0.03 min

Lab File: VX003331.D

Acq: 11 Jul 2018 20:22

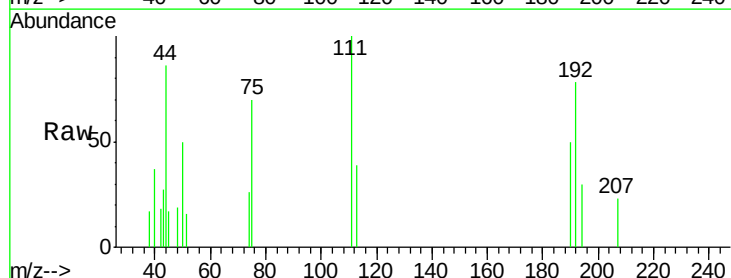
Tgt Ion: 75 Resp: 331

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

