

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071118\
 Data File : VX003337.D
 Acq On : 11 Jul 2018 23:02
 Operator : JC/MD
 Sample : PB110983ZHE#11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB110983ZHE#11

Quant Time: Jul 12 00:59:40 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	255335	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	384633	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	364781	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	194422	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	177140	44.08	ug/l	0.00
Spiked Amount			Recovery	=	88.16%	
35) Dibromofluoromethane	5.51	113	147916	35.80	ug/l	0.00
Spiked Amount			Recovery	=	71.60%	
50) Toluene-d8	8.72	98	560927	38.22	ug/l	0.00
Spiked Amount			Recovery	=	76.44%	
62) 4-Bromofluorobenzene	11.14	95	190786	35.18	ug/l	0.00
Spiked Amount			Recovery	=	70.36%	

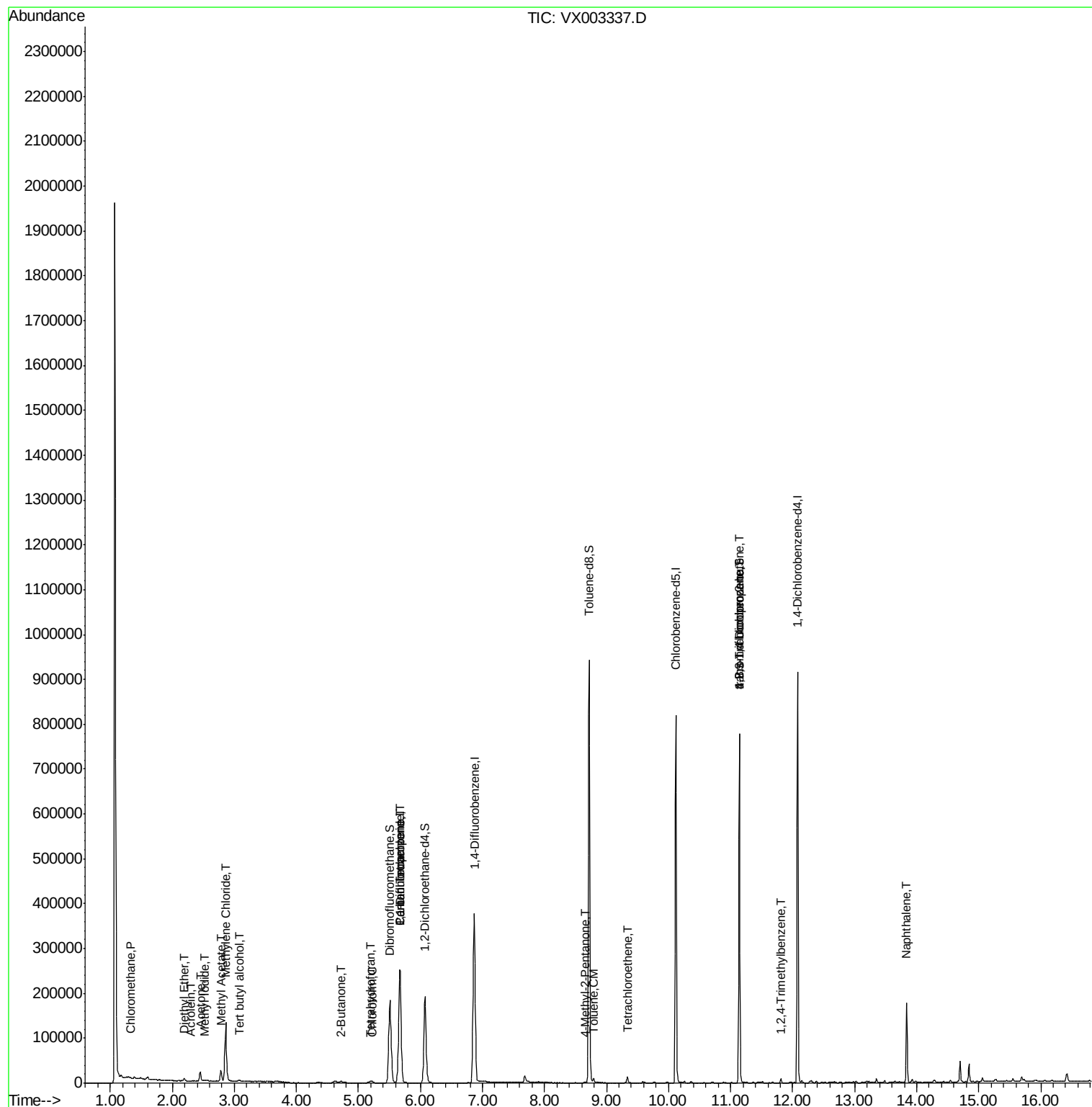
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	710	0.20	ug/l	# 84
5) Bromomethane	1.65	94	1757	Below Cal		# 73
8) Diethyl Ether	2.19	74	2091	1.07	ug/l	91
10) Methyl Iodide	2.52	142	1396	6.01	ug/l	# 94
11) Tert butyl alcohol	3.07	59	4267	5.86	ug/l	# 89
13) Acrolein	2.29	56	269	0.46	ug/l	# 73
16) Acetone	2.45	43	22547	15.80	ug/l	90
18) Methyl Acetate	2.78	43	28103	6.98	ug/l	94
20) Methylene Chloride	2.86	84	62049	20.81	ug/l	97
25) 2-Butanone	4.71	43	6026	2.39	ug/l	# 78
29) Tetrahydrofuran	5.18	42	2076	1.27	ug/l	# 84
30) Chloroform	5.23	83	3770	0.61	ug/l	94
36) 1,1-Dichloropropene	5.67	75	17427	3.20	ug/l	# 50
38) Carbon Tetrachloride	5.67	117	23523	3.95	ug/l	# 16
51) 4-Methyl-2-Pentanone	8.66	43	1538	0.26	ug/l	97
52) Toluene	8.79	92	2879	0.28	ug/l	100
64) Tetrachloroethene	9.34	164	2582	0.47	ug/l	92
76) 1,2,3-Trichloropropane	11.14	75	93068	22.15	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	93068	72.39	ug/l	# 7
84) 1,2,4-Trimethylbenzene	11.81	105	3457	0.26	ug/l	99
95) Naphthalene	13.83	128	114109	7.34	ug/l	100

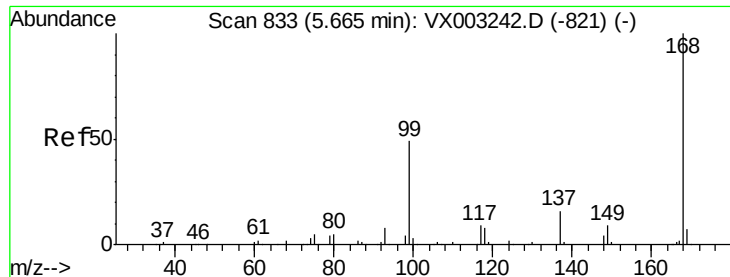
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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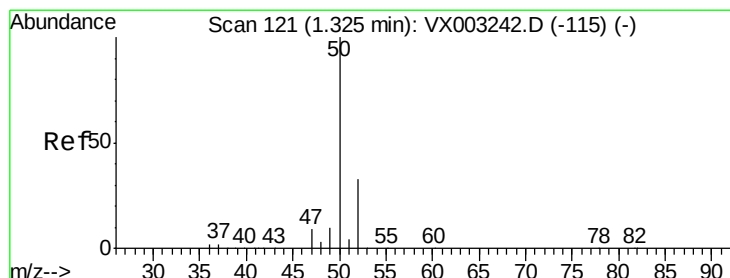
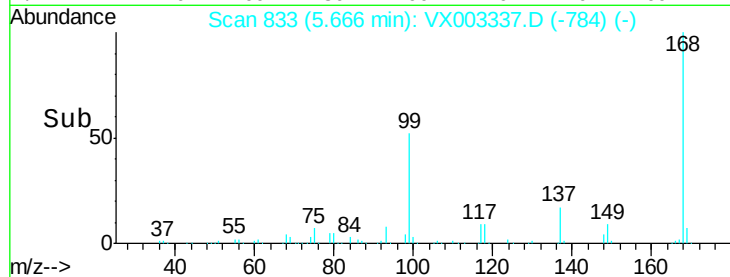
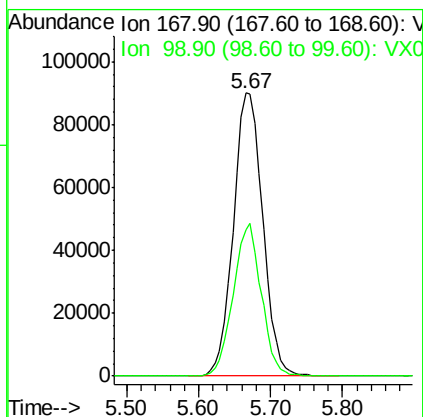
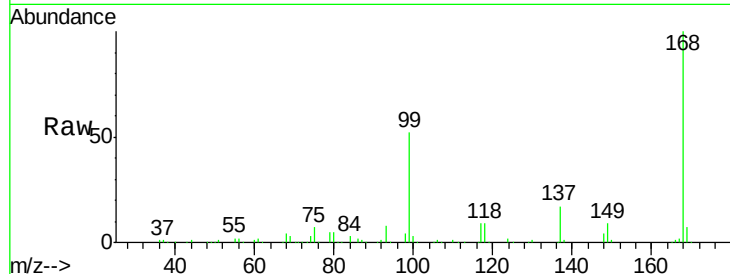




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.00 min
Lab File: VX003337.D
Acq: 11 Jul 2018 23:02

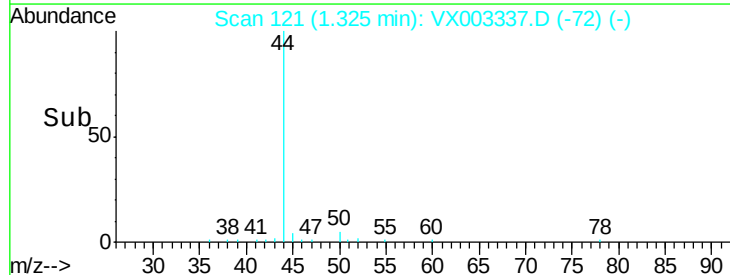
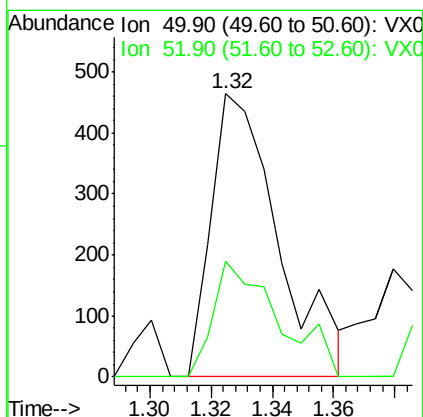
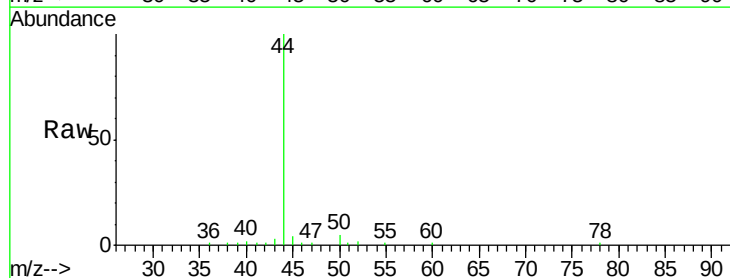
Instrument :
MSVOA_X
ClientSampleId :
PB110983ZHE#11

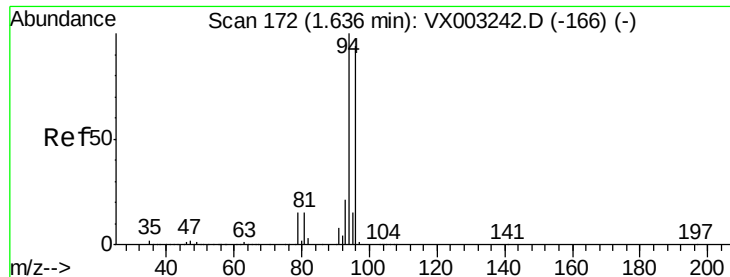
Tot Ion:168 Resp: 255335
Ion Ratio Lower Upper
168 100
99 51.7 39.3 58.9



#3
Chloromethane
Concen: 0.20 ug/l
RT: 1.32 min Scan# 121
Delta R.T. 0.00 min
Lab File: VX003337.D
Acq: 11 Jul 2018 23:02

Tgt Ion: 50 Resp: 710
Ion Ratio Lower Upper
50 100
52 40.9 25.7 38.5#





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003337.D

Acq: 11 Jul 2018 23:02

Instrument :

MSVOA_X

ClientSampleId :

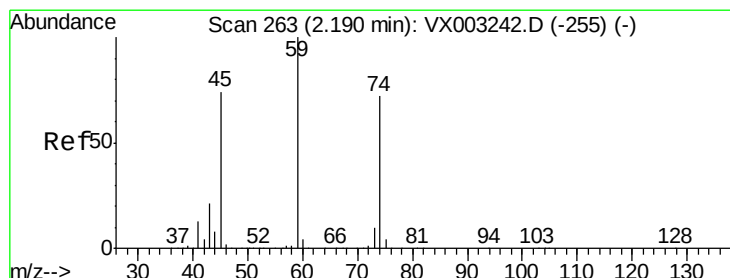
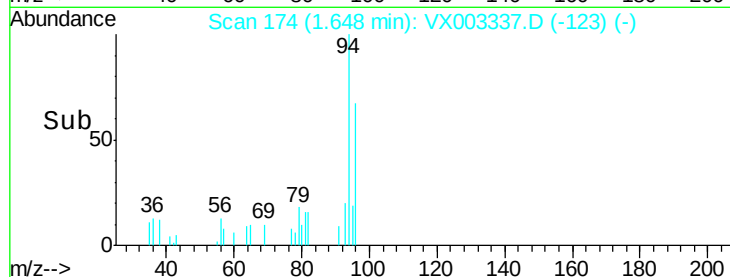
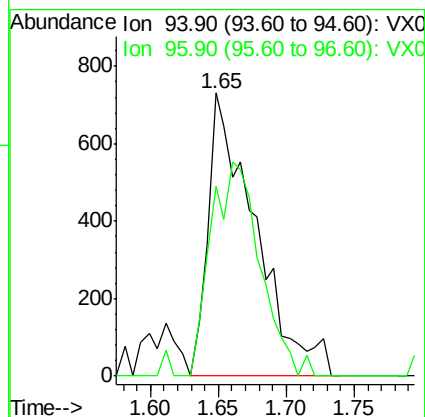
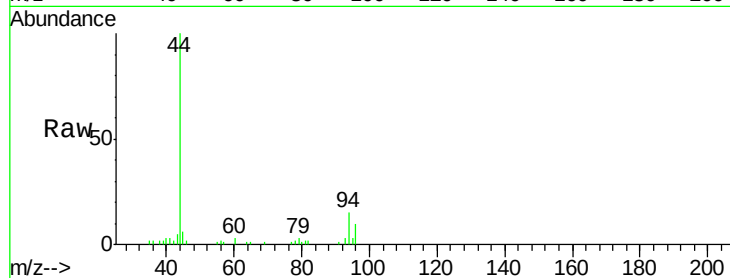
PB110983ZHE#11

Tot Ion: 94 Resp: 1757

Ion Ratio Lower Upper

94 100

96 67.2 74.9 112.3#



#8

Diethyl Ether

Concen: 1.07 ug/l

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX003337.D

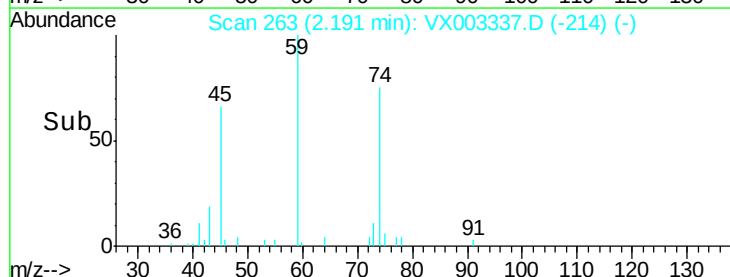
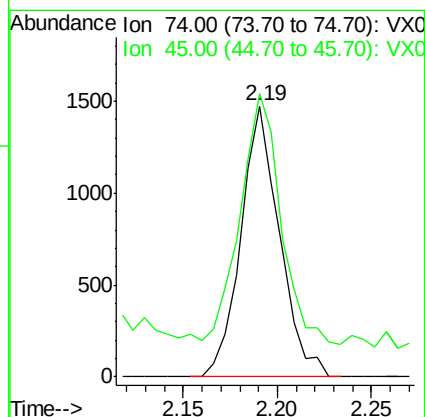
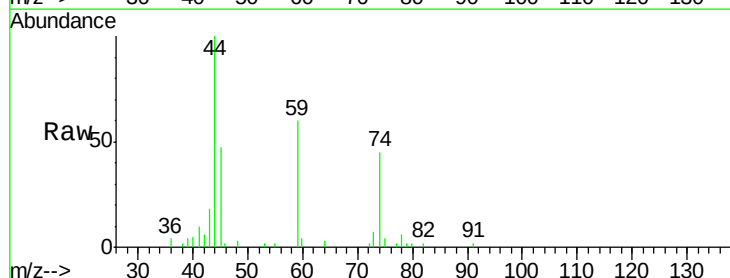
Acq: 11 Jul 2018 23:02

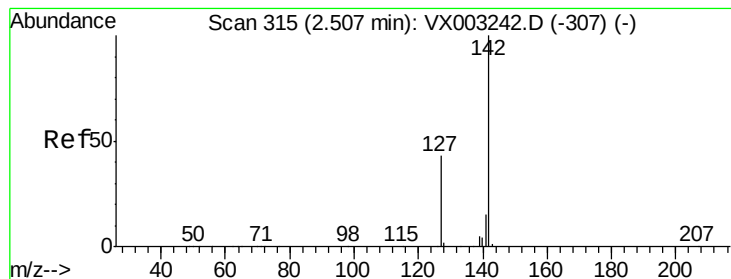
Tgt Ion: 74 Resp: 2091

Ion Ratio Lower Upper

74 100

45 96.7 53.1 159.4





#10

Methvl Iodide

Concen: 6.01 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003337.D

Acq: 11 Jul 2018 23:02

Instrument :

MSVOA_X

ClientSampleId :

PB110983ZHE#11

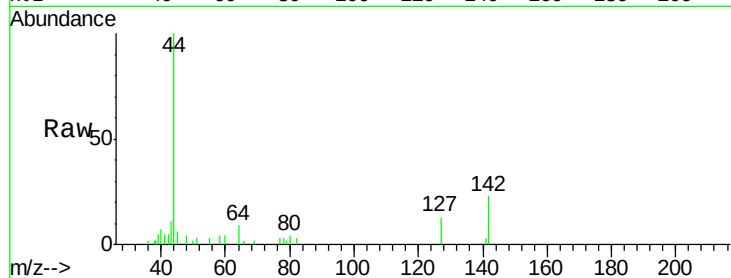
Tot Ion:142 Resp: 1396

Ion Ratio Lower Upper

142 100

127 42.6 36.6 55.0

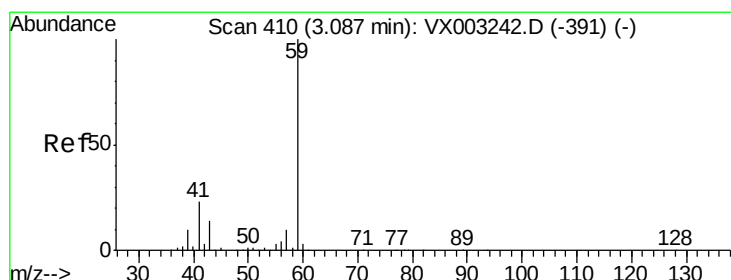
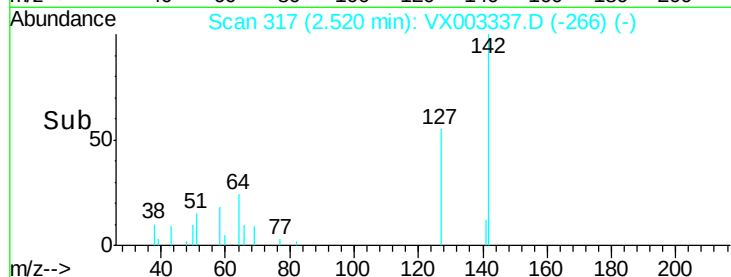
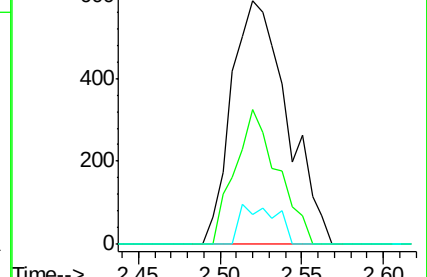
141 10.5 11.3 16.9#



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



#11

Tert butyl alcohol

Concen: 5.86 ug/l

RT: 3.07 min Scan# 408

Delta R.T. -0.02 min

Lab File: VX003337.D

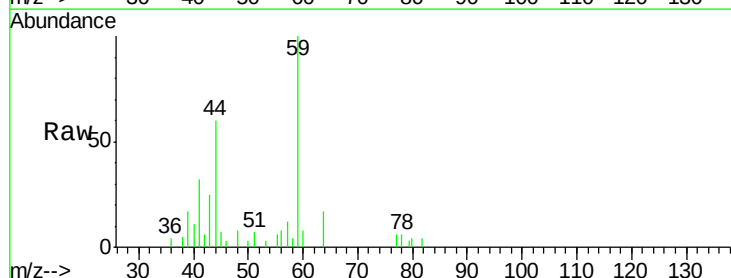
Acq: 11 Jul 2018 23:02

Tgt Ion: 59 Resp: 4267

Ion Ratio Lower Upper

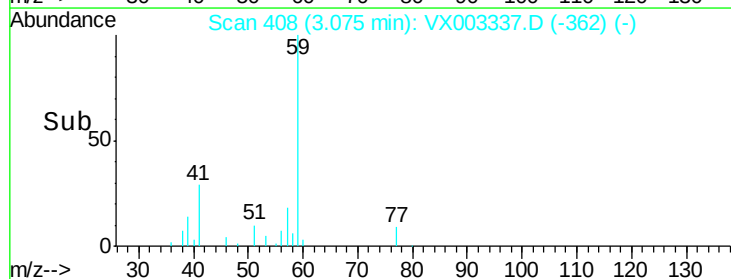
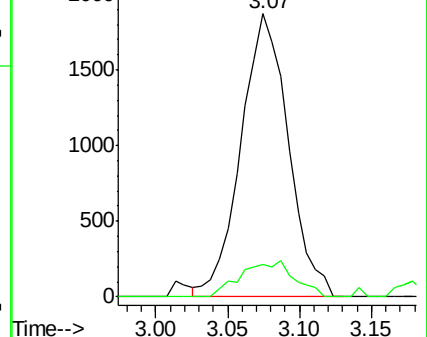
59 100

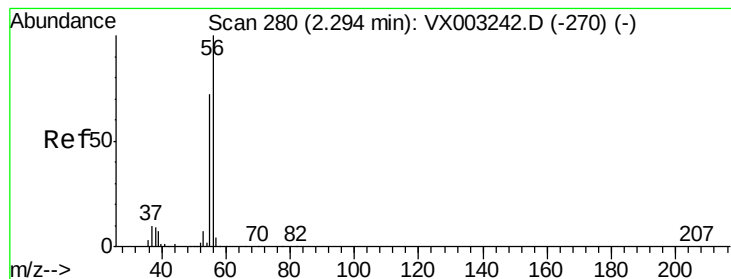
57 14.4 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.46 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX003337.D

Acq: 11 Jul 2018 23:02

Instrument :

MSVOA_X

ClientSampleId :

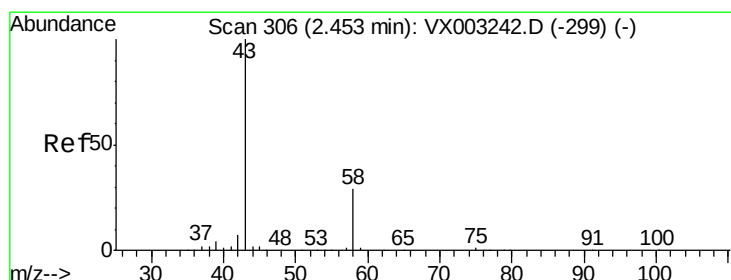
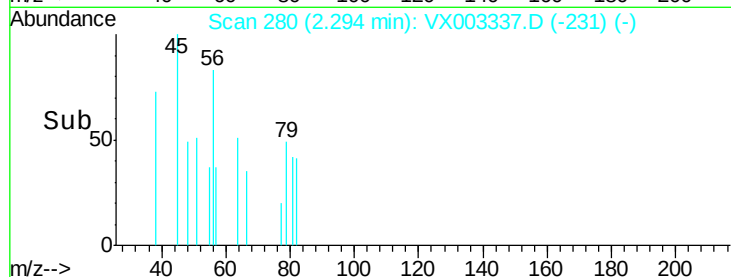
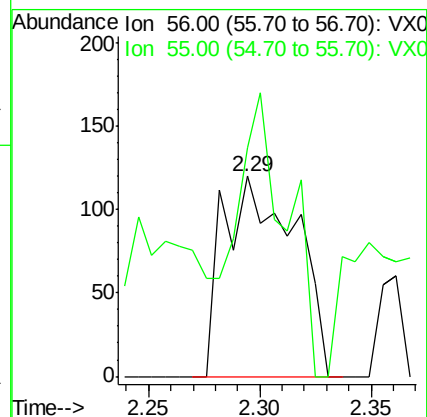
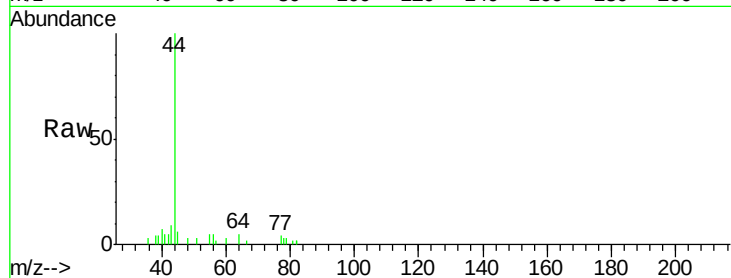
PB110983ZHE#11

Tot Ion: 56 Resp: 269

Ion Ratio Lower Upper

56 100

55 93.7 57.0 85.4#



#16

Acetone

Concen: 15.80 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX003337.D

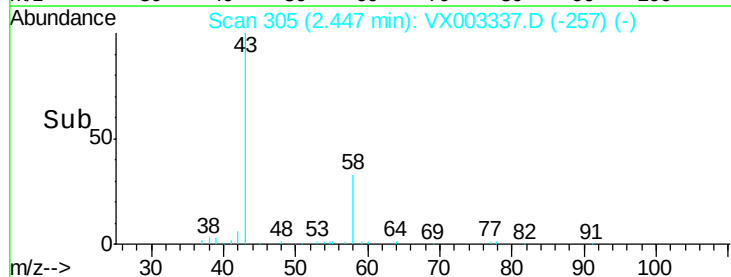
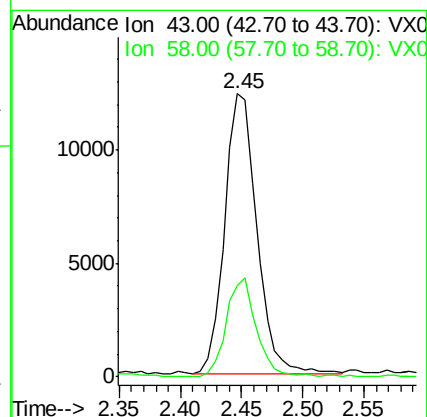
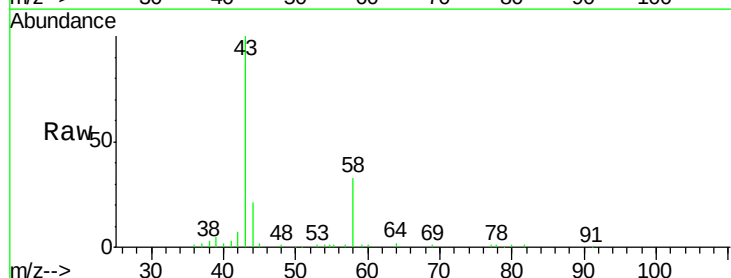
Acq: 11 Jul 2018 23:02

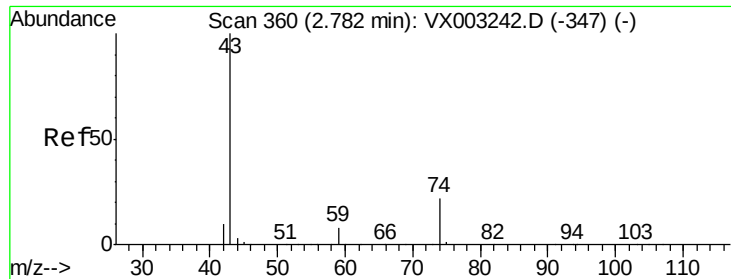
Tgt Ion: 43 Resp: 22547

Ion Ratio Lower Upper

43 100

58 32.9 22.1 33.1





#18

Methyl Acetate

Concen: 6.98 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX003337.D

Acq: 11 Jul 2018 23:02

Instrument :

MSVOA_X

ClientSampleId :

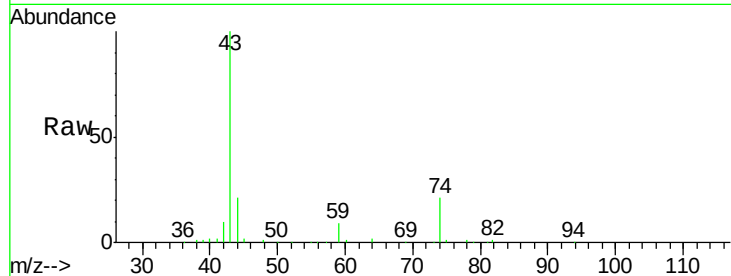
PB110983ZHE#11

Tot Ion: 43 Resp: 28103

Ion Ratio Lower Upper

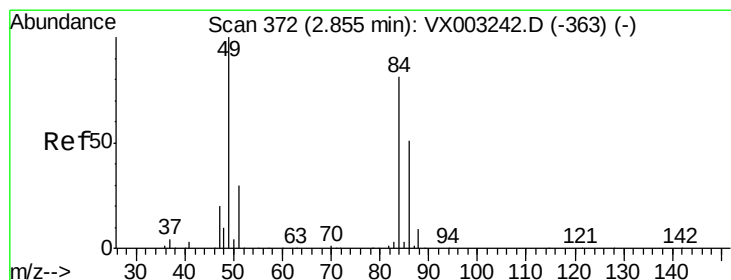
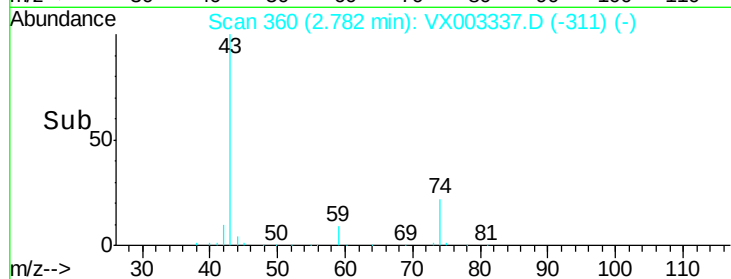
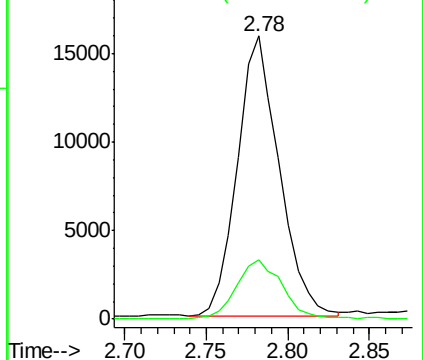
43 100

74 23.5 16.7 25.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



#20

Methylene Chloride

Concen: 20.81 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX003337.D

Acq: 11 Jul 2018 23:02

Tgt Ion: 84 Resp: 62049

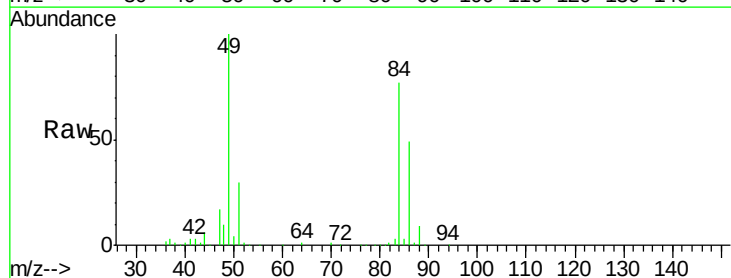
Ion Ratio Lower Upper

84 100

49 130.4 107.8 161.6

51 39.6 32.8 49.2

86 64.4 52.5 78.7

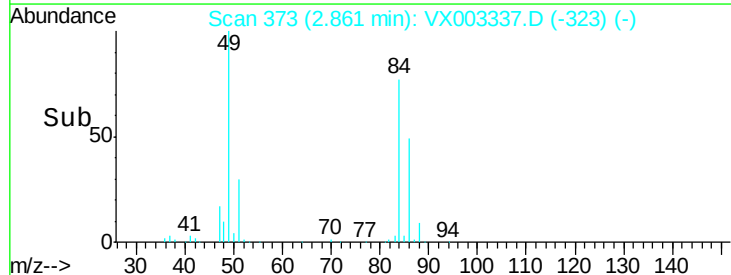
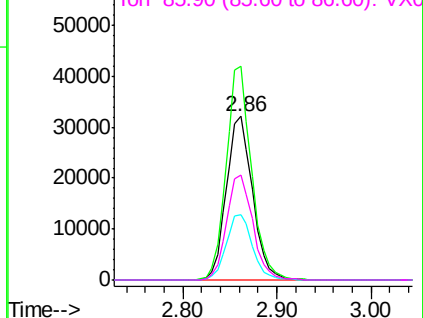


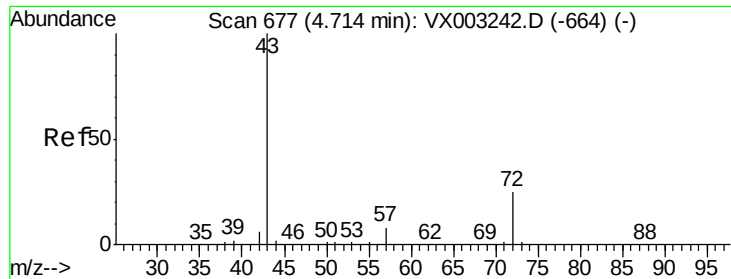
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#25

2-Butanone

Concen: 2.39 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.00 min

Lab File: VX003337.D

Acq: 11 Jul 2018 23:02

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ClientSampleId :

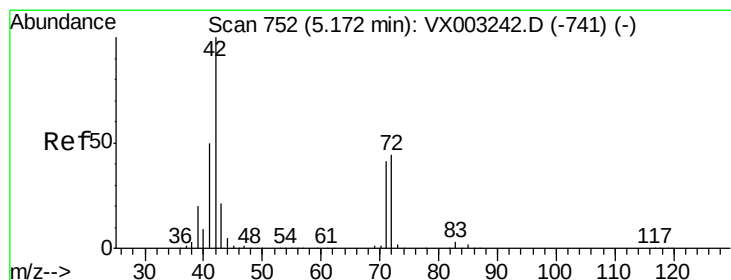
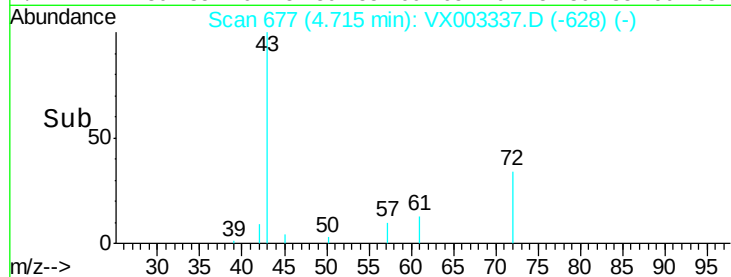
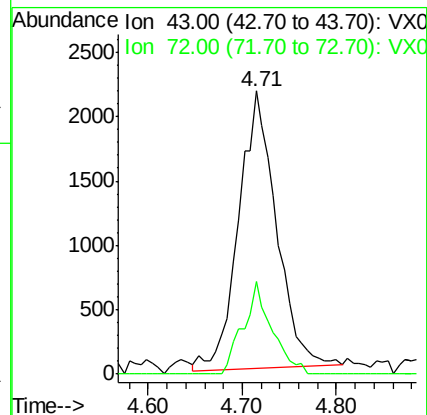
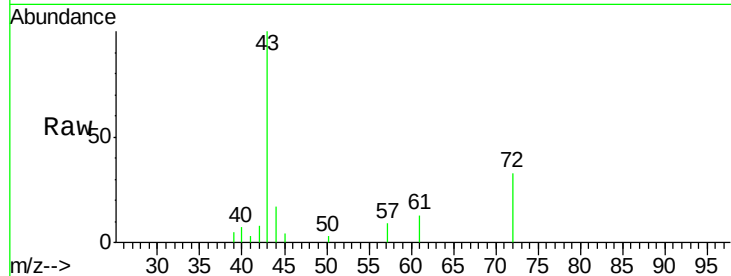
PB110983ZHE#11

Tot Ion: 43 Resp: 6026

Ion Ratio Lower Upper

43 100

72 33.8 18.5 27.7#



#29

Tetrahydrofuran

Concen: 1.27 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.01 min

Lab File: VX003337.D

Acq: 11 Jul 2018 23:02

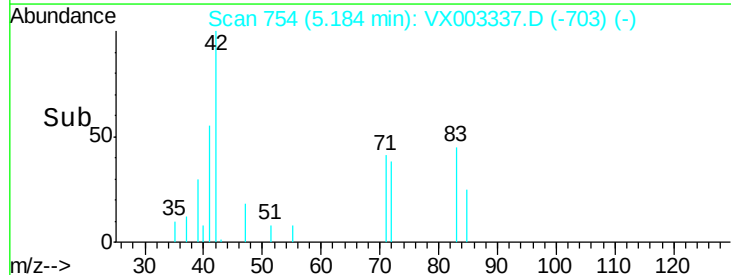
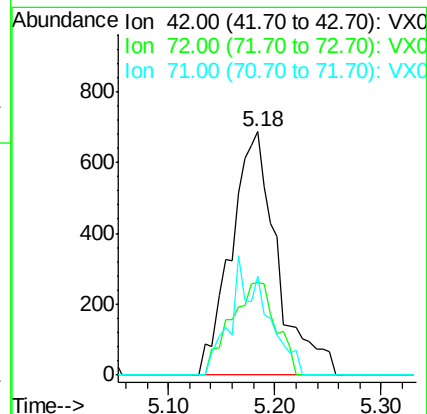
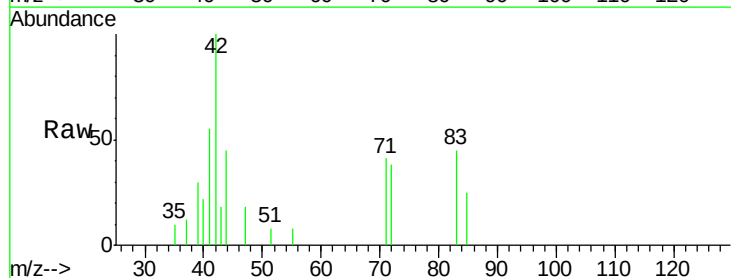
Tgt Ion: 42 Resp: 2076

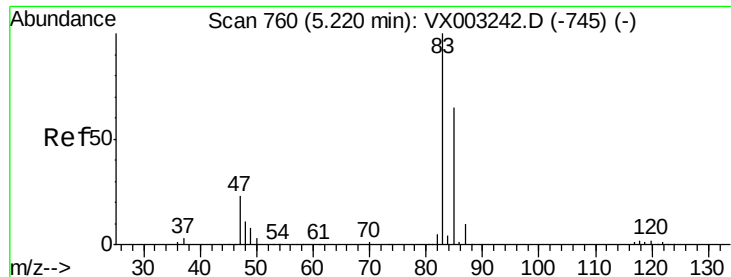
Ion Ratio Lower Upper

42 100

72 37.3 32.0 48.0

71 20.7 30.1 45.1#





#30

Chloroform

Concen: 0.61 ug/l

RT: 5.23 min Scan# 761

Delta R.T. 0.01 min

Lab File: VX003337.D

Acq: 11 Jul 2018 23:02

Instrument :

MSVOA_X

ClientSampleId :

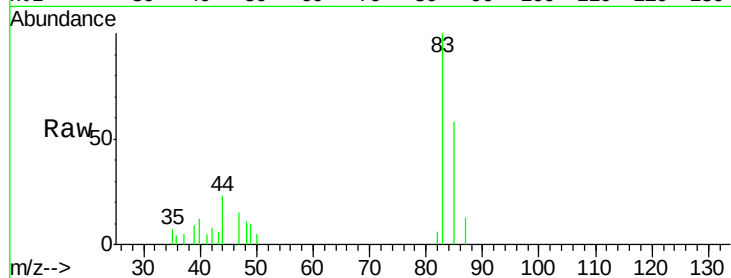
PB110983ZHE#11

Tot Ion: 83 Resp: 3770

Ion Ratio Lower Upper

83 100

85 58.1 50.4 75.6



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

5.23

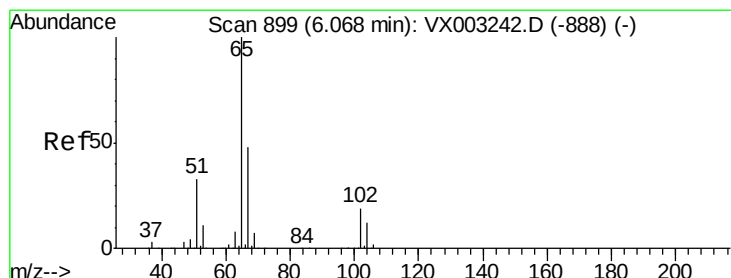
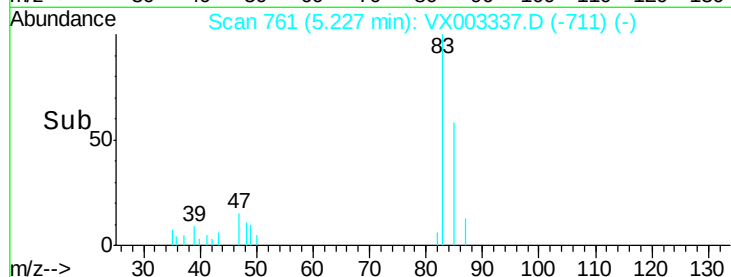
1500

1000

500

0

Time--> 5.10 5.15 5.20 5.25 5.30



#33

1,2-Dichloroethane-d4

Concen: 44.08 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX003337.D

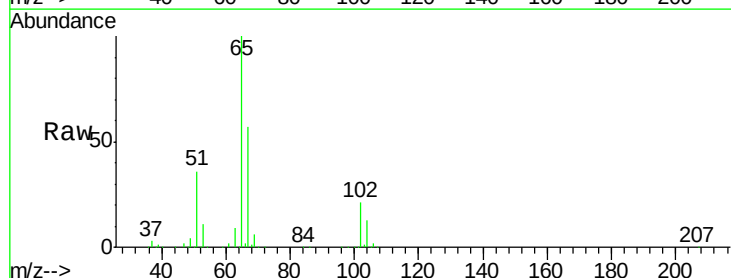
Acq: 11 Jul 2018 23:02

Tgt Ion: 65 Resp: 177140

Ion Ratio Lower Upper

65 100

67 53.7 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

80000

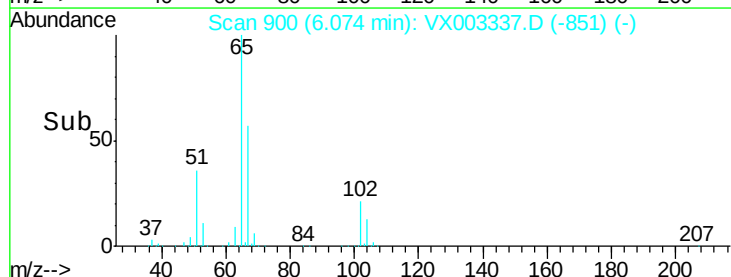
60000

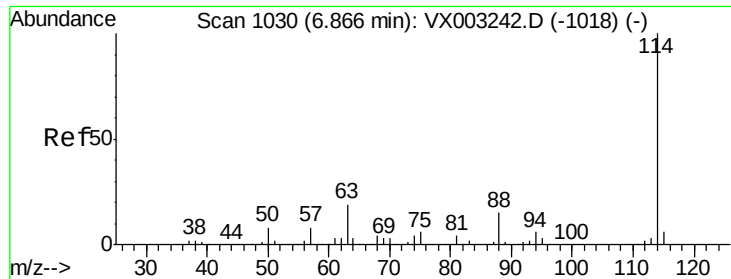
40000

20000

0

Time--> 5.90 6.00 6.10 6.20 6.30





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX003337.D

Acq: 11 Jul 2018 23:02

Instrument :

MSVOA_X

ClientSampleId :

PB110983ZHE#11

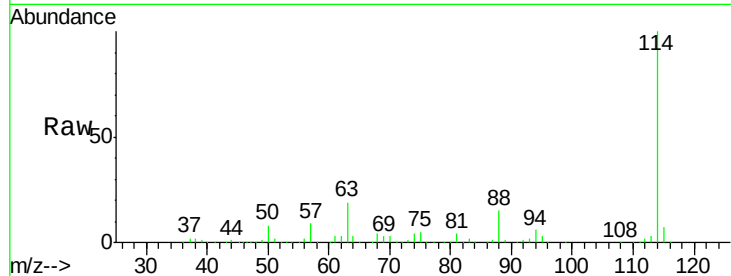
Tot Ion:114 Resp: 384633

Ion Ratio Lower Upper

114 100

63 19.5 0.0 41.4

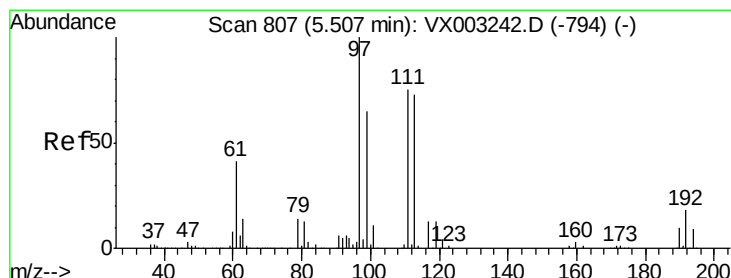
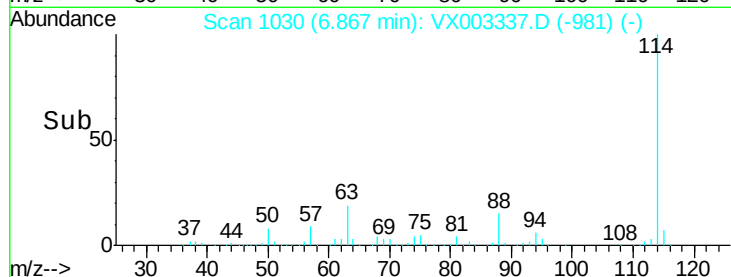
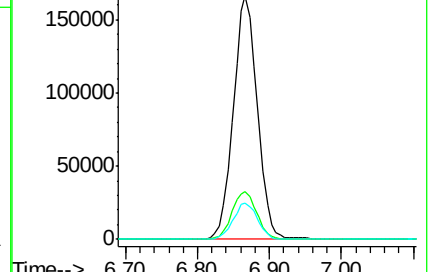
88 14.8 0.0 30.0



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: 35.80 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003337.D

Acq: 11 Jul 2018 23:02

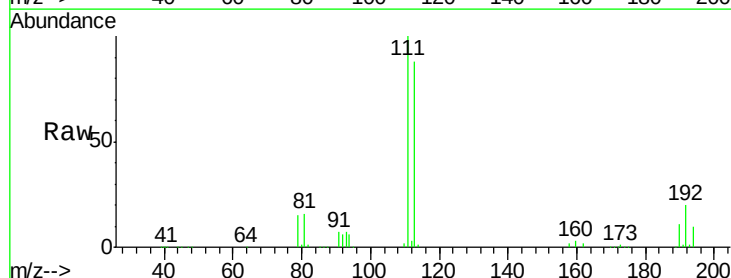
Tgt Ion:113 Resp: 147916

Ion Ratio Lower Upper

113 100

111 104.3 81.4 122.0

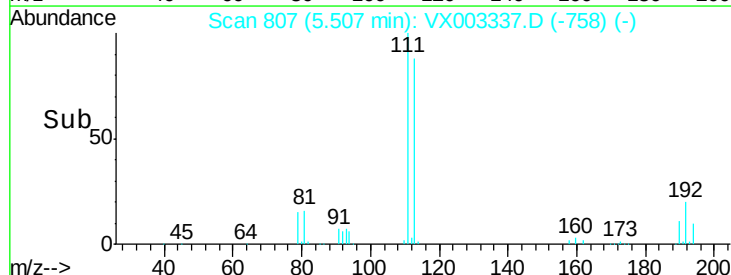
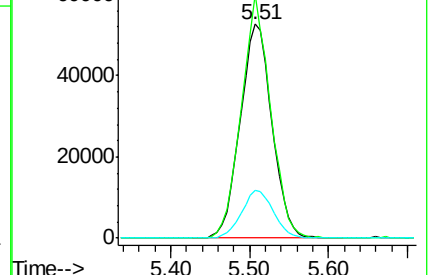
192 22.3 19.1 28.7

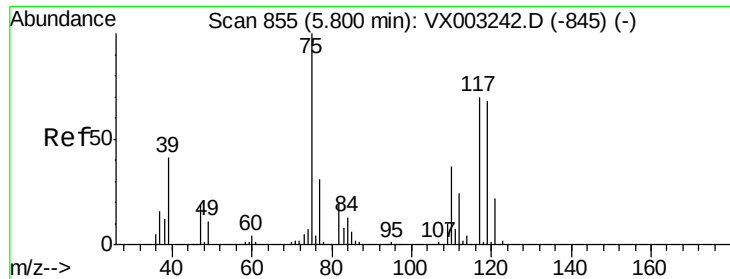


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.20 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003337.D

Acq: 11 Jul 2018 23:02

Instrument :

MSVOA_X

ClientSampleId :

PB110983ZHE#11

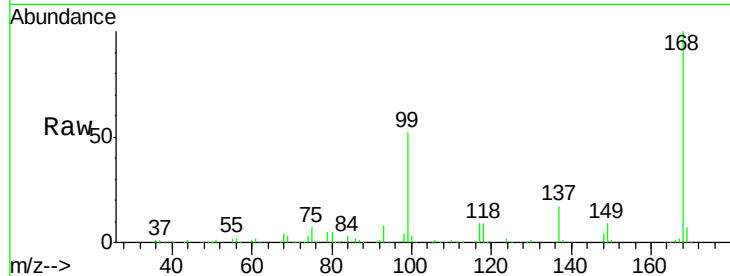
Tot Ion: 75 Resp: 17427

Ion Ratio Lower Upper

75 100

110 9.6 18.1 54.4#

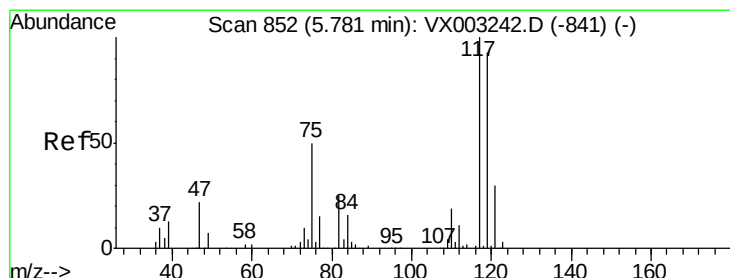
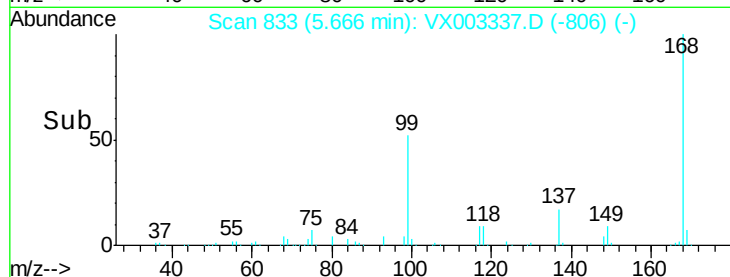
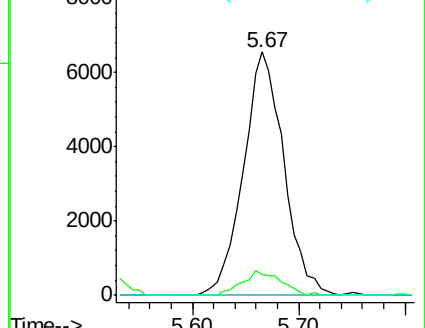
77 0.0 24.3 36.5#



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: 3.95 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003337.D

Acq: 11 Jul 2018 23:02

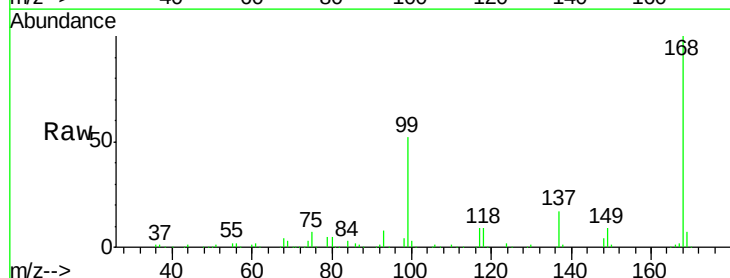
Tgt Ion: 117 Resp: 23523

Ion Ratio Lower Upper

117 100

119 5.2 77.4 116.0#

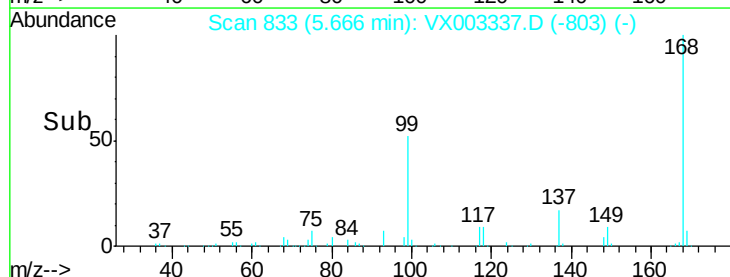
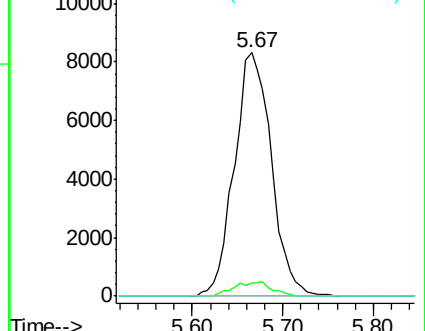
121 0.0 24.4 36.6#

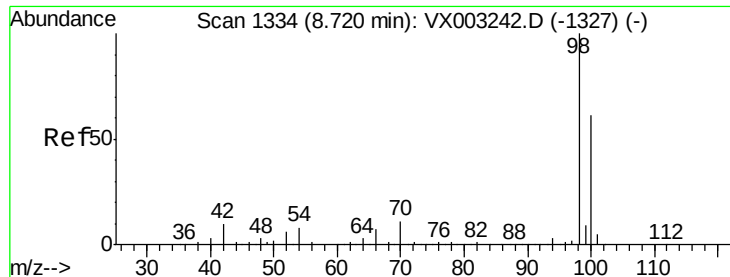


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 38.22 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003337.D

Acq: 11 Jul 2018 23:02

Instrument :

MSVOA_X

ClientSampleId :

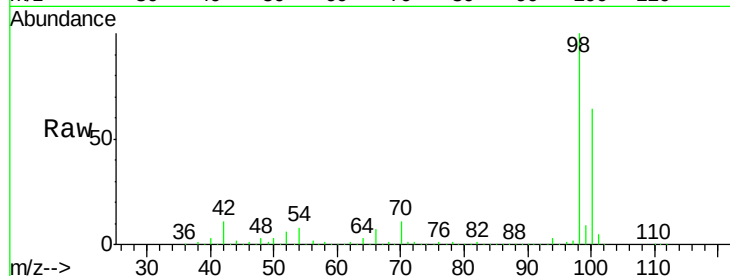
PB110983ZHE#11

Tot Ion: 98 Resp: 560927

Ion Ratio Lower Upper

98 100

100 63.5 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

400000

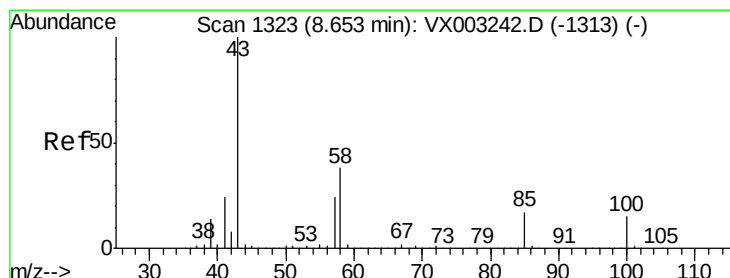
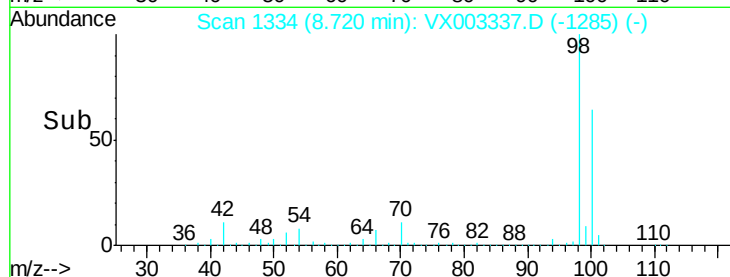
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.26 ug/l

RT: 8.66 min Scan# 1324

Delta R.T. 0.00 min

Lab File: VX003337.D

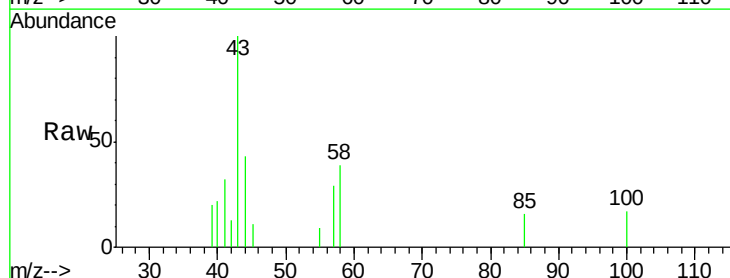
Acq: 11 Jul 2018 23:02

Tgt Ion: 43 Resp: 1538

Ion Ratio Lower Upper

43 100

58 37.2 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.66

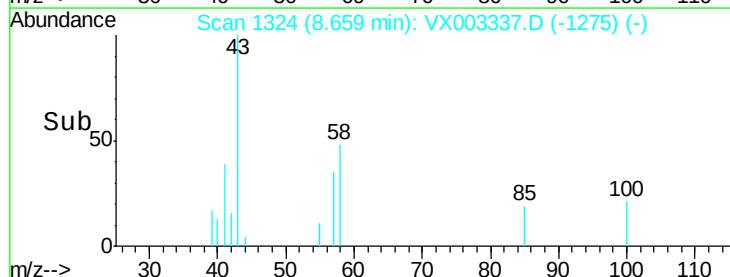
3000

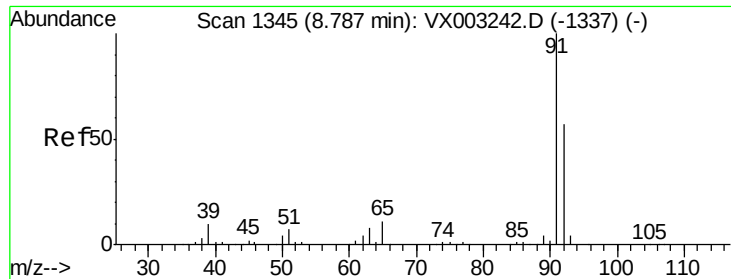
2000

1000

0

Time-->





#52

Toluene

Concen: 0.28 ug/l

RT: 8.79 min Scan# 1345

Delta R.T. 0.00 min

Lab File: VX003337.D

Acq: 11 Jul 2018 23:02

Instrument :

MSVOA_X

ClientSampleId :

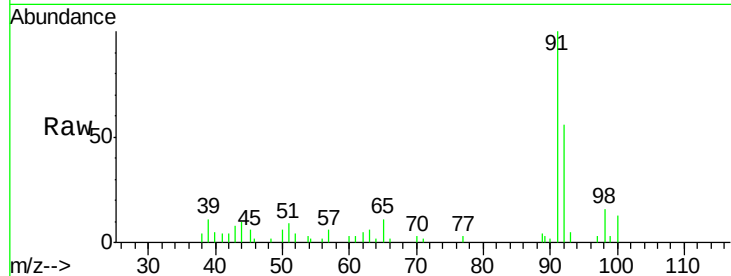
PB110983ZHE#11

Tot Ion: 92 Resp: 2879

Ion Ratio Lower Upper

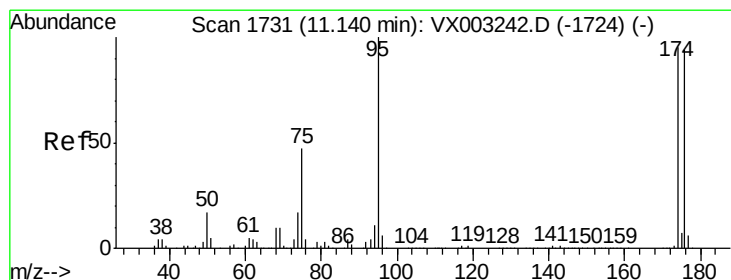
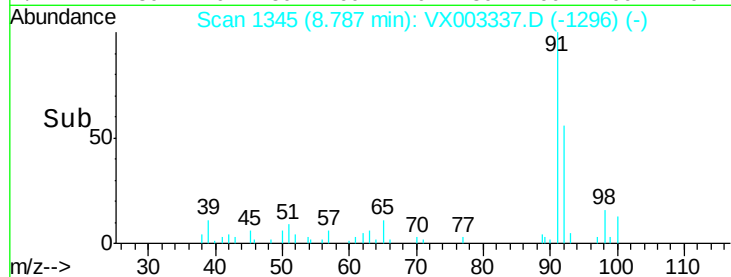
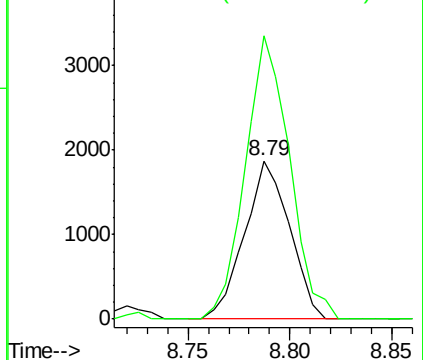
92 100

91 175.8 140.4 210.6



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 35.18 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003337.D

Acq: 11 Jul 2018 23:02

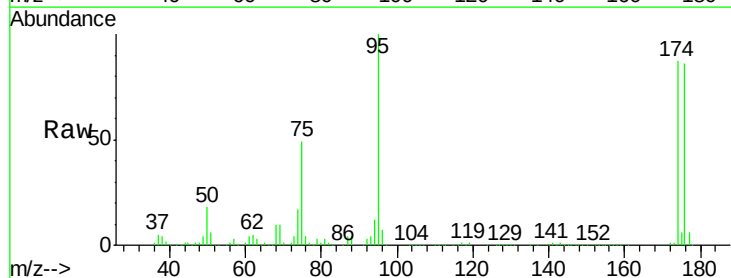
Tgt Ion: 95 Resp: 190786

Ion Ratio Lower Upper

95 100

174 91.4 0.0 187.4

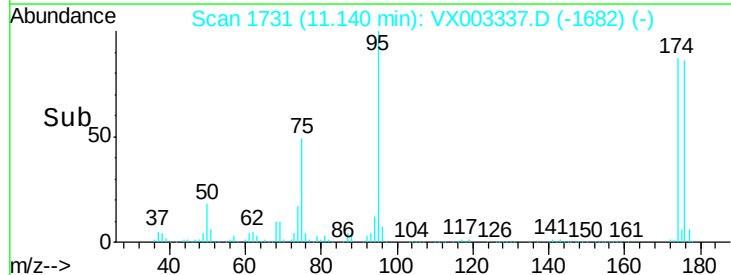
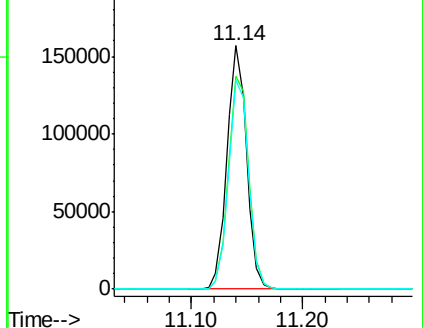
176 88.5 0.0 181.0

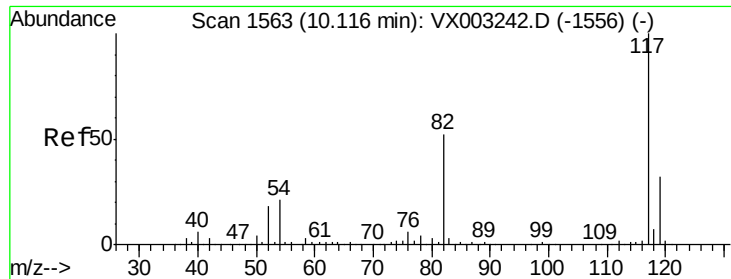


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX003337.D

Acq: 11 Jul 2018 23:02

Instrument :

MSVOA_X

ClientSampleId :

PB110983ZHE#11

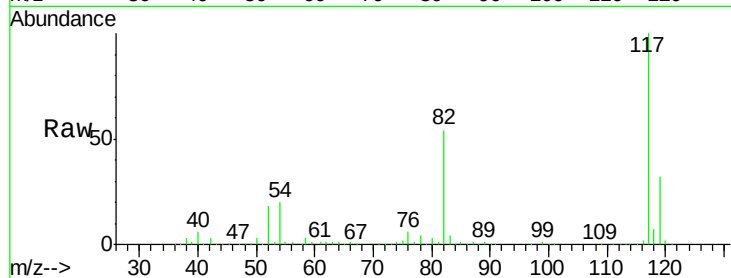
Tot Ion:117 Resp: 364781

Ion Ratio Lower Upper

117 100

82 53.7 45.0 67.4

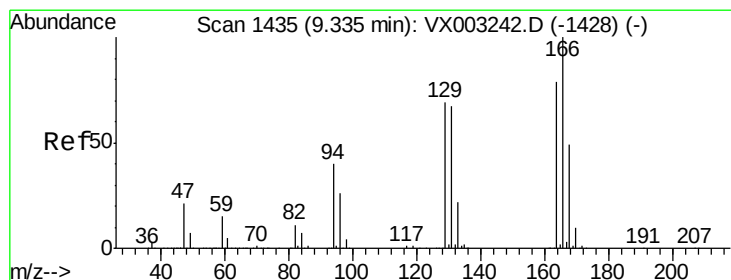
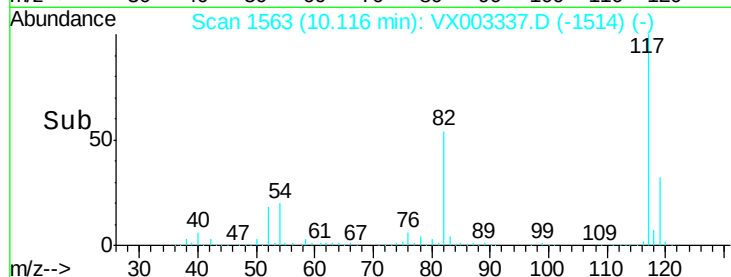
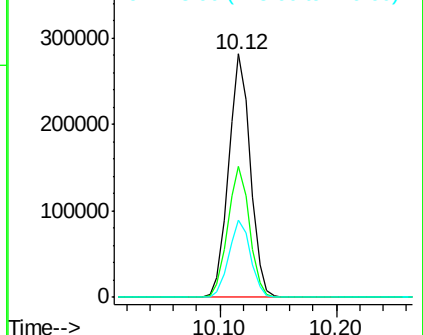
119 31.8 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 0.47 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. 0.01 min

Lab File: VX003337.D

Acq: 11 Jul 2018 23:02

Tgt Ion:164 Resp: 2582

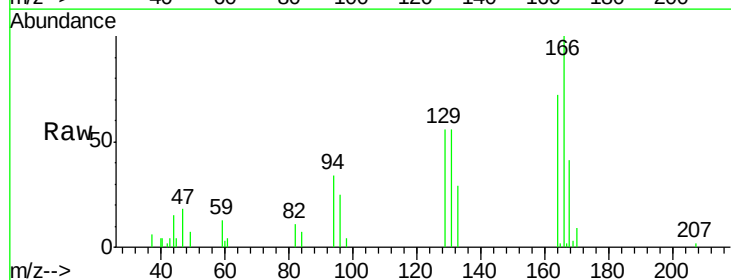
Ion Ratio Lower Upper

164 100

166 138.3 102.9 154.3

129 77.2 68.6 102.8

131 78.0 66.8 100.2

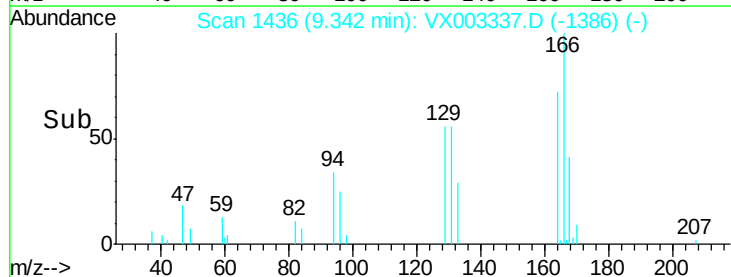
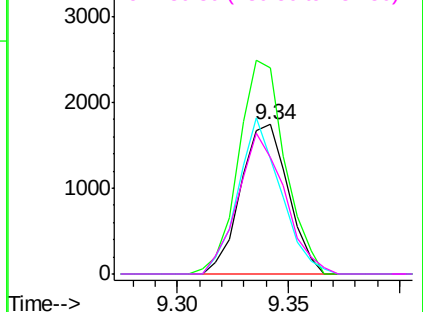


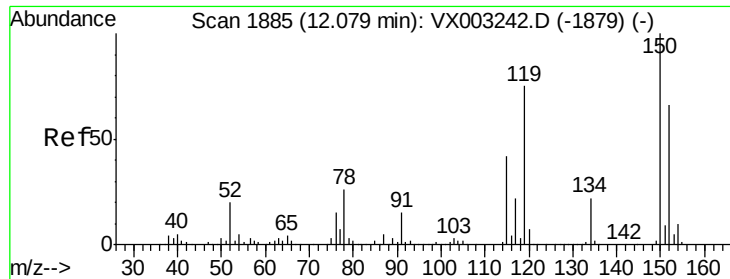
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003337.D

Acq: 11 Jul 2018 23:02

Instrument :

MSVOA_X

ClientSampleId :

PB110983ZHE#11

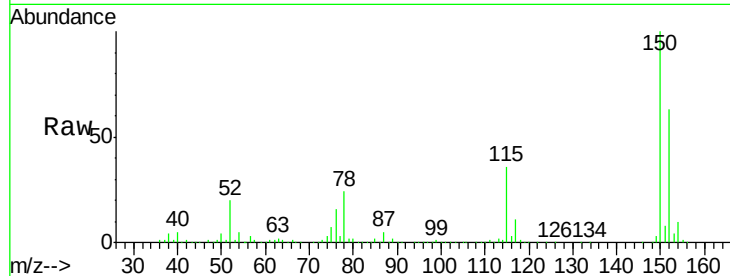
Tot Ion:152 Resp: 194422

Ion Ratio Lower Upper

152 100

115 56.0 40.1 120.2

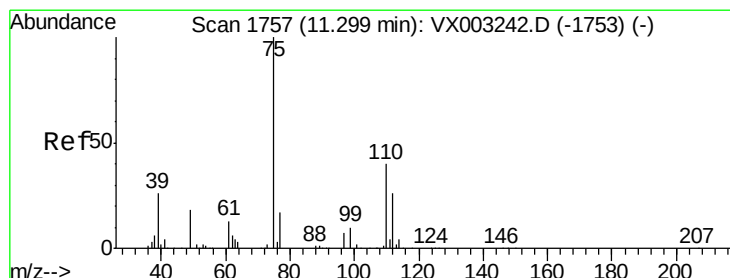
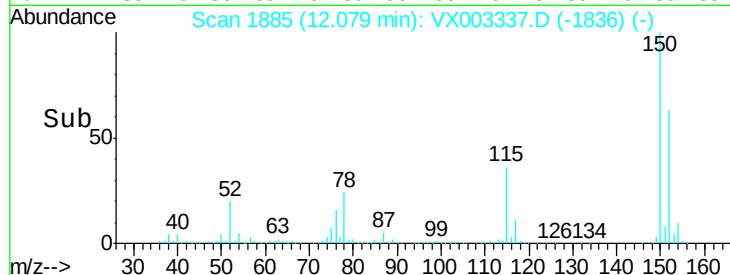
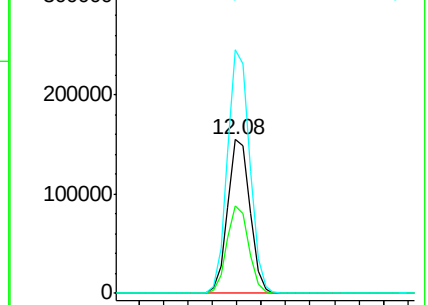
150 158.2 0.0 347.2



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: 22.15 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003337.D

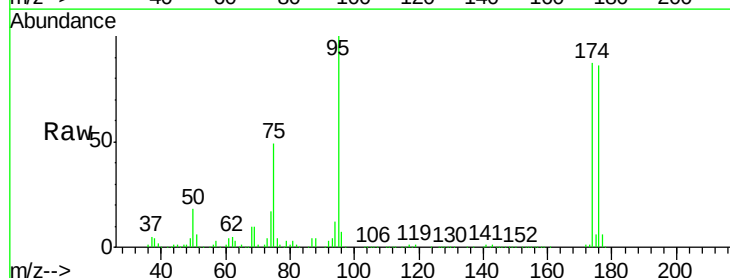
Acq: 11 Jul 2018 23:02

Tgt Ion: 75 Resp: 93068

Ion Ratio Lower Upper

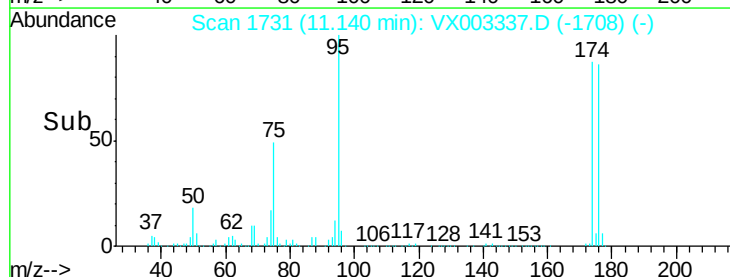
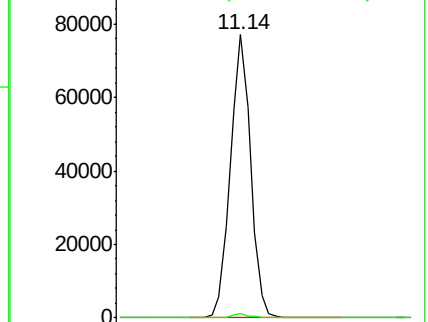
75 100

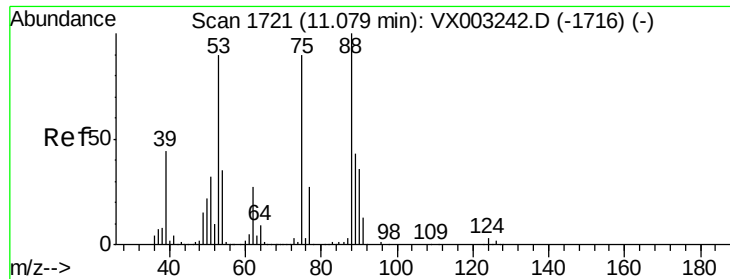
77 1.3 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

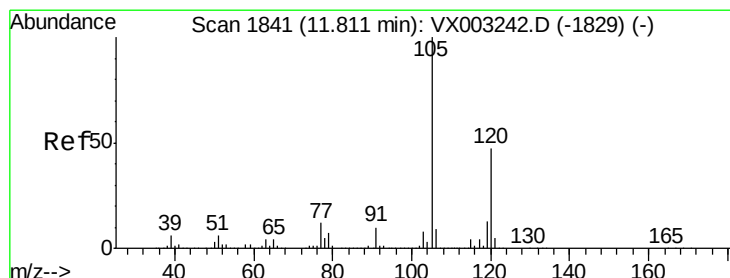
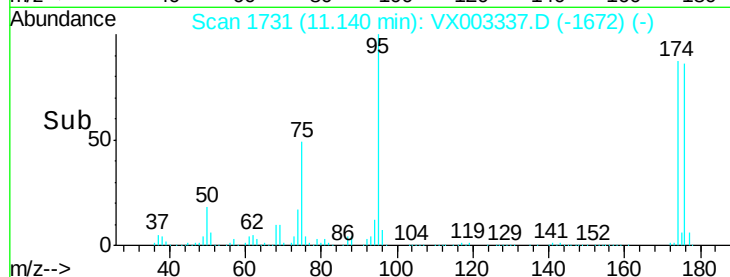
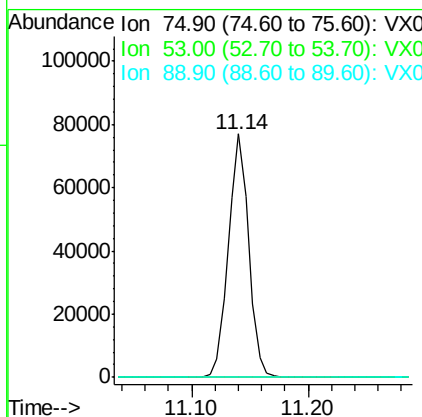
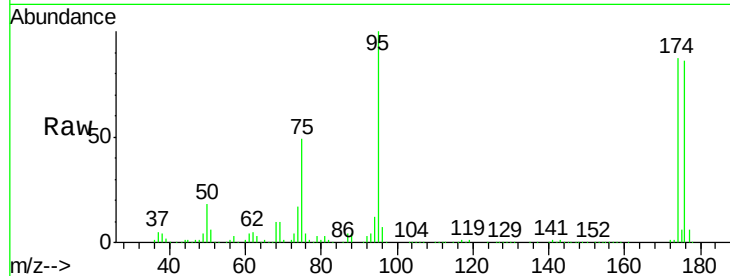




#81
 trans-1,4-Dichloro-2-butene
 Concen: 72.39 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX003337.D
 Acq: 11 Jul 2018 23:02

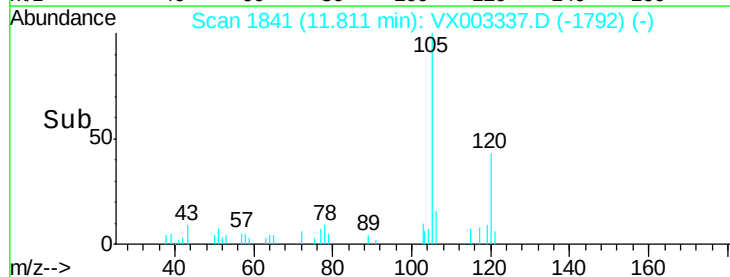
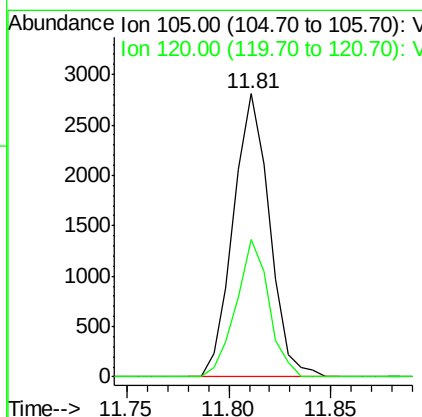
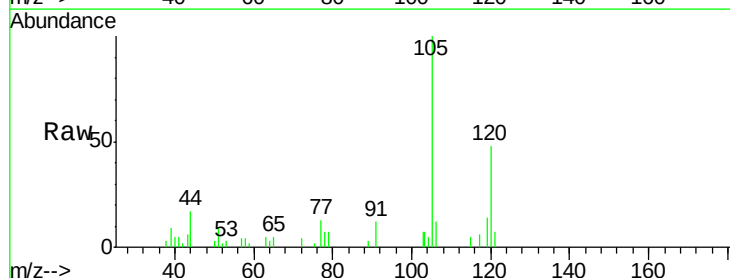
Instrument :
 MSVOA_X
 ClientSampleId :
 PB110983ZHE#11

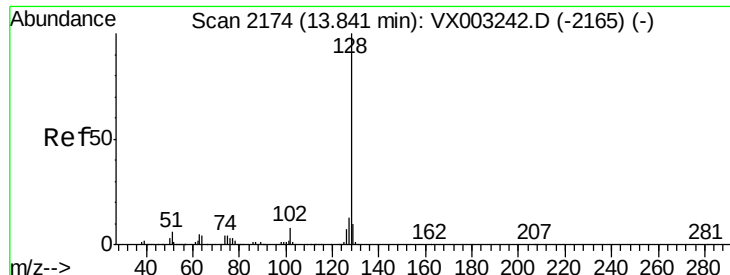
Tot Ion: 75 Resp: 93068
 Ion Ratio Lower Upper
 75 100
 53 0.2 86.8 130.2#
 89 0.0 38.2 57.2#



#84
 1,2,4-Trimethylbenzene
 Concen: 0.26 ug/l
 RT: 11.81 min Scan# 1841
 Delta R.T. 0.00 min
 Lab File: VX003337.D
 Acq: 11 Jul 2018 23:02

Tgt Ion: 105 Resp: 3457
 Ion Ratio Lower Upper
 105 100
 120 43.8 22.3 66.8





#95

Naphthalene

Concen: 7.34 ug/l

RT: 13.83 min Scan# 2173

Delta R.T. 0.00 min

Lab File: VX003337.D

Acq: 11 Jul 2018 23:02

Instrument :

MSVOA_X

ClientSampleId :

PB110983ZHE#11

Tot Ion:128 Resp: 114109

Ion Ratio Lower Upper

128 100

127 13.0 10.4 15.6

129 10.8 8.6 13.0

