

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071318\
 Data File : VX003384.D
 Acq On : 14 Jul 2018 01:33
 Operator : JC/MD
 Sample : PB111071TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB111071TB

Quant Time: Jul 14 02:50:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071318W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 13 17:01:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	290243	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	419983	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	380535	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	209171	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	184478	58.28	ug/l	0.00
Spiked Amount			Recovery	=	116.56%	
35) Dibromofluoromethane	5.51	113	165335	53.49	ug/l	0.00
Spiked Amount			Recovery	=	106.98%	
50) Toluene-d8	8.72	98	584206	57.88	ug/l	0.00
Spiked Amount			Recovery	=	115.76%	
62) 4-Bromofluorobenzene	11.14	95	199350	46.31	ug/l	0.00
Spiked Amount			Recovery	=	92.62%	

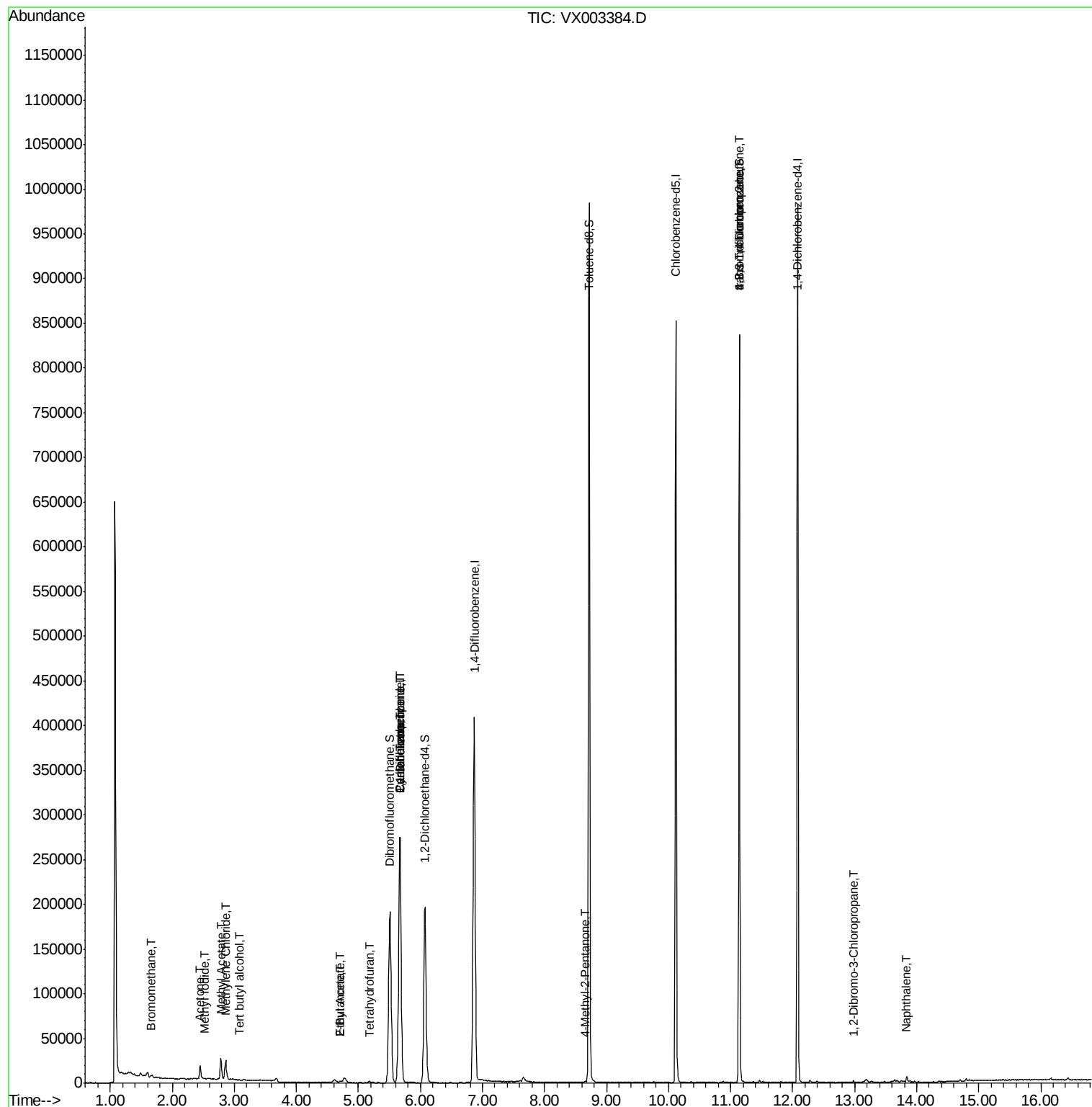
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	57	Below Cal	#	43
3) Chloromethane	1.32	50	1073	Below Cal		93
5) Bromomethane	1.65	94	2213	1.04	ug/l	88
6) Chloroethane	1.71	64	67	Below Cal	#	1
10) Methyl Iodide	2.51	142	1498	0.43	ug/l	97
11) Tert butyl alcohol	3.09	59	195	0.23	ug/l	97
13) Acrolein	2.31	56	189	Below Cal	#	54
16) Acetone	2.45	43	16247	9.97	ug/l	# 88
18) Methyl Acetate	2.78	43	27608	5.46	ug/l	96
20) Methylene Chloride	2.86	84	9709	1.52	ug/l	90
25) 2-Butanone	4.71	43	3371	1.33	ug/l	93
29) Tetrahydrofuran	5.18	42	1318	0.82	ug/l	93
31) Cyclohexane	5.67	56	5065	1.01	ug/l	# 1
36) 1,1-Dichloropropene	5.67	75	18735	4.20	ug/l	# 50
37) Ethyl Acetate	4.71	43	3371	0.69	ug/l	# 70
38) Carbon Tetrachloride	5.67	117	25444	5.59	ug/l	# 18
51) 4-Methyl-2-Pentanone	8.65	43	1199	0.24	ug/l	95
76) 1,2,3-Trichloropropane	11.14	75	100139	24.23	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	100139	80.79	ug/l	# 7
92) 1,2-Dibromo-3-Chloropropan	12.98	75	276	0.29	ug/l	# 8
95) Naphthalene	13.84	128	4184	0.29	ug/l	98

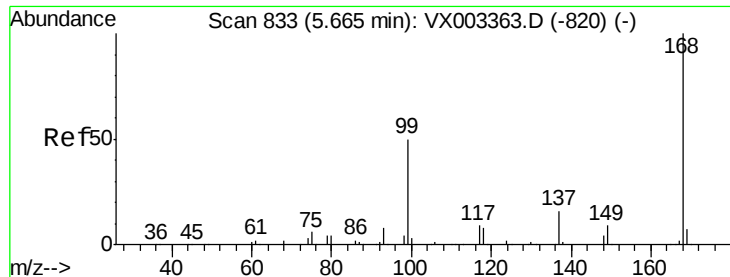
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jul 13 17:01:02 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003384.D

Acq: 14 Jul 2018 01:33

Instrument :

MSVOA_X

ClientSampleId :

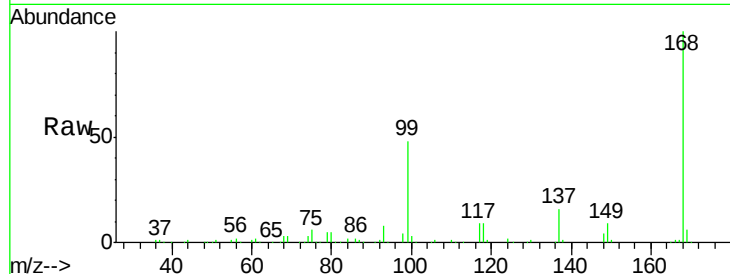
PB111071TB

Tot Ion:168 Resp: 290243

Ion Ratio Lower Upper

168 100

99 47.8 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

120000

100000

80000

60000

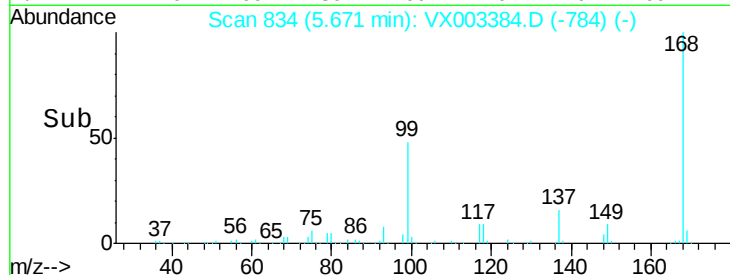
40000

20000

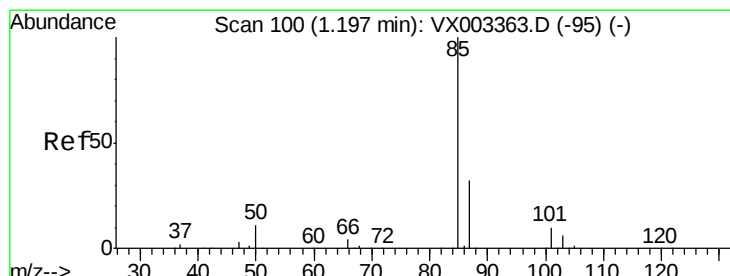
0

5.67

5.50 5.60 5.70 5.80



Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003384.D

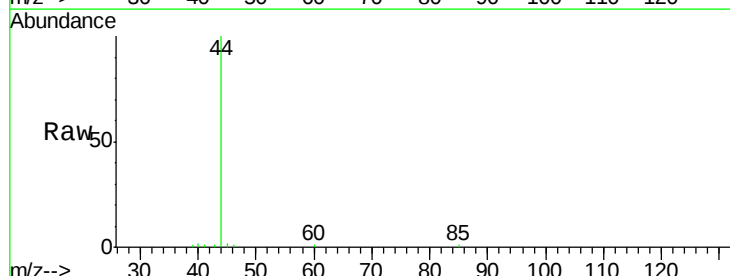
Acq: 14 Jul 2018 01:33

Tgt Ion: 85 Resp: 57

Ion Ratio Lower Upper

85 100

87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

120

100

80

60

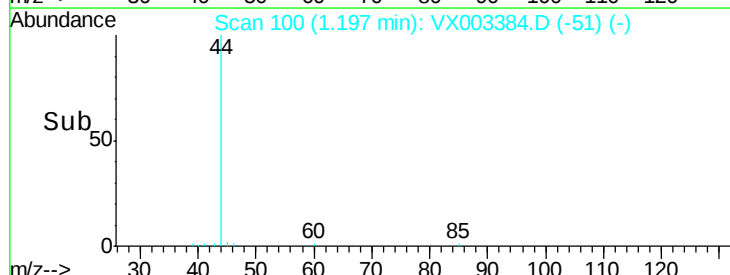
40

20

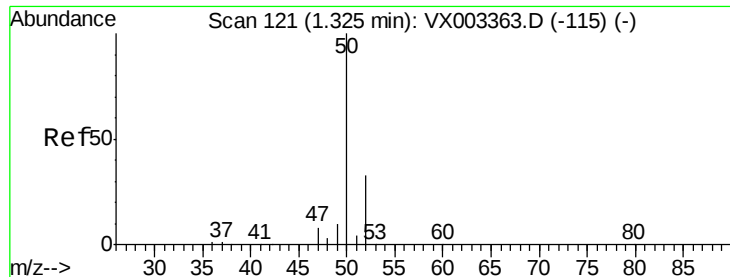
0

1.20

1.18 1.20



Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003384.D

Acq: 14 Jul 2018 01:33

Instrument :

MSVOA_X

ClientSampleId :

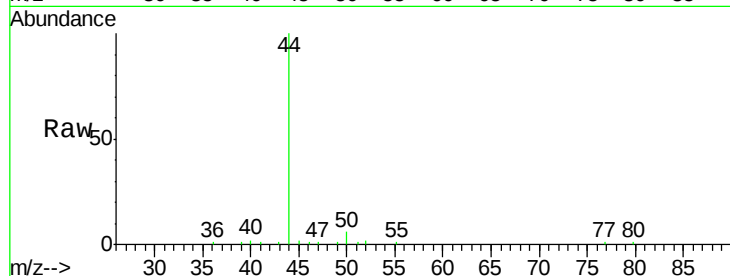
PB111071TB

Tot Ion: 50 Resp: 1073

Ion Ratio Lower Upper

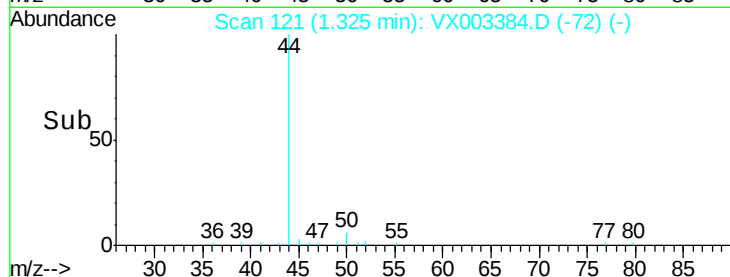
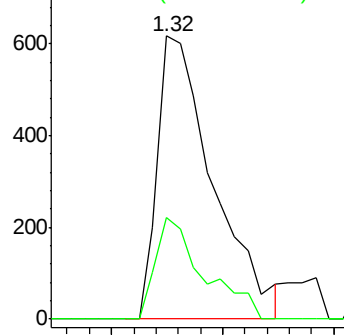
50 100

52 35.8 25.7 38.5

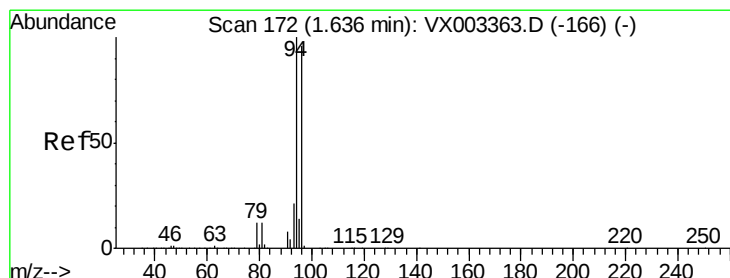


Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



Time-->



#5

Bromomethane

Concen: 1.04 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003384.D

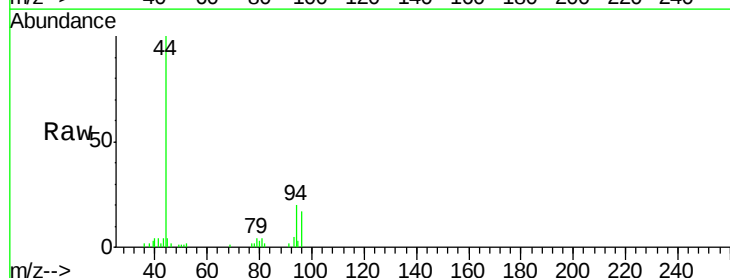
Acq: 14 Jul 2018 01:33

Tgt Ion: 94 Resp: 2213

Ion Ratio Lower Upper

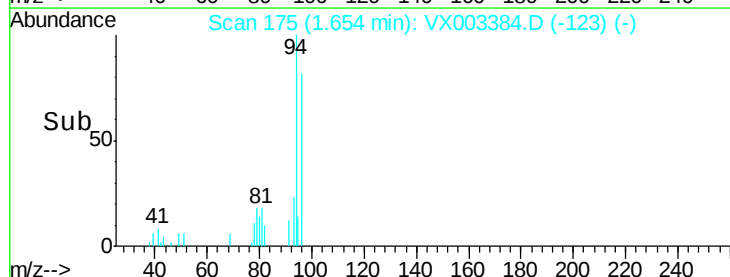
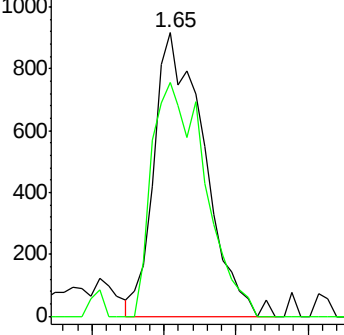
94 100

96 82.3 74.9 112.3

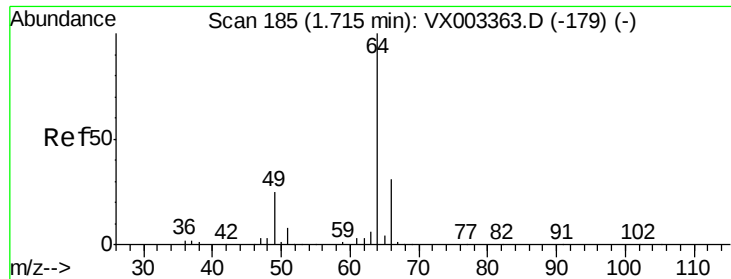


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 185

Delta R.T. 0.00 min

Lab File: VX003384.D

Acq: 14 Jul 2018 01:33

Instrument :

MSVOA_X

ClientSampleId :

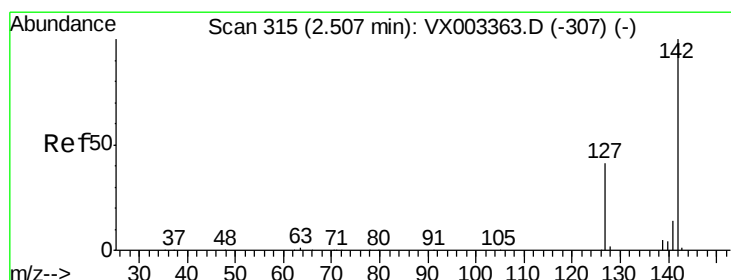
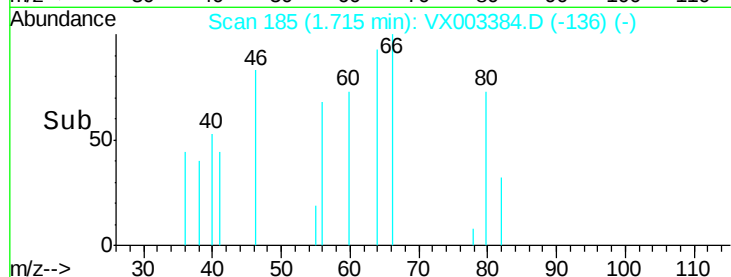
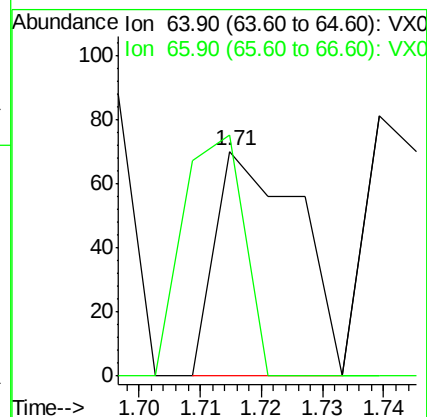
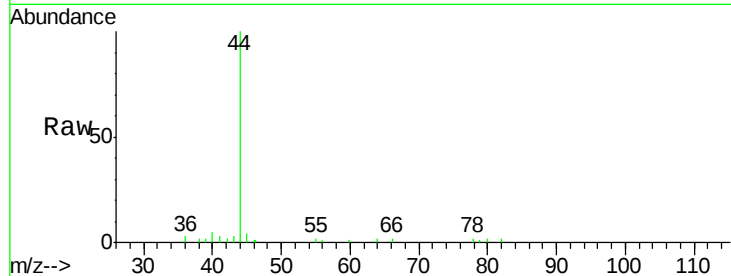
PB111071TB

Tot Ion: 64 Resp: 67

Ion Ratio Lower Upper

64 100

66 107.1 25.5 38.3#



#10

Methyl Iodide

Concen: 0.43 ug/l

RT: 2.51 min Scan# 316

Delta R.T. 0.01 min

Lab File: VX003384.D

Acq: 14 Jul 2018 01:33

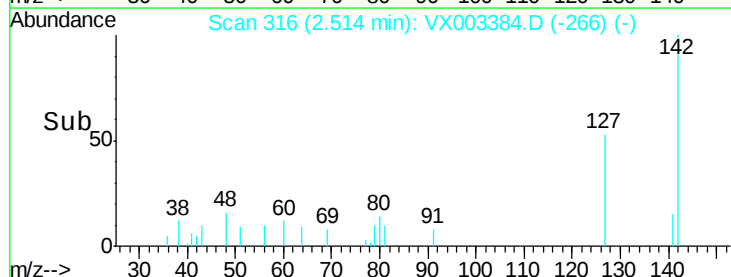
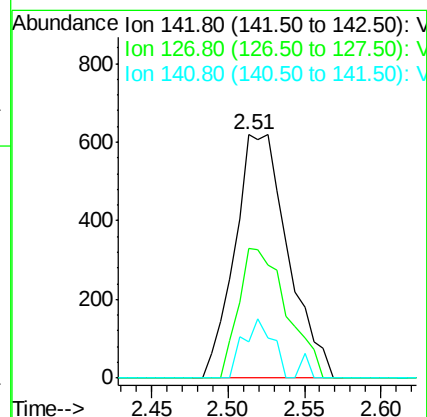
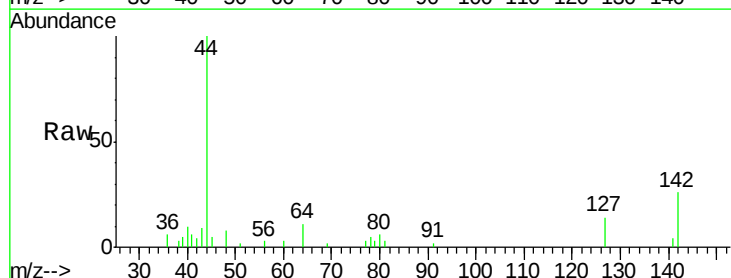
Tgt Ion: 142 Resp: 1498

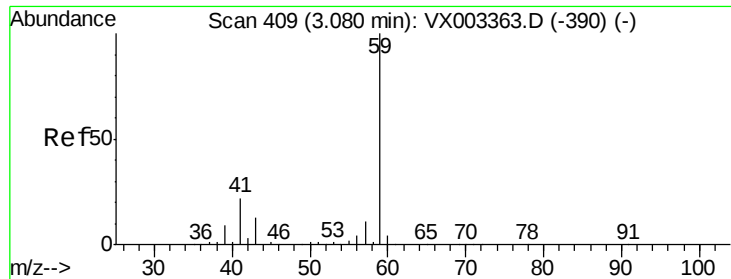
Ion Ratio Lower Upper

142 100

127 48.1 36.6 55.0

141 13.2 11.3 16.9

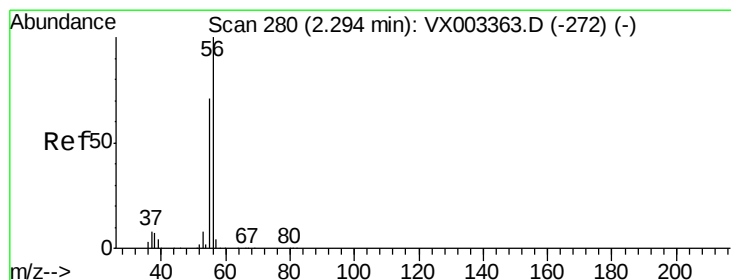
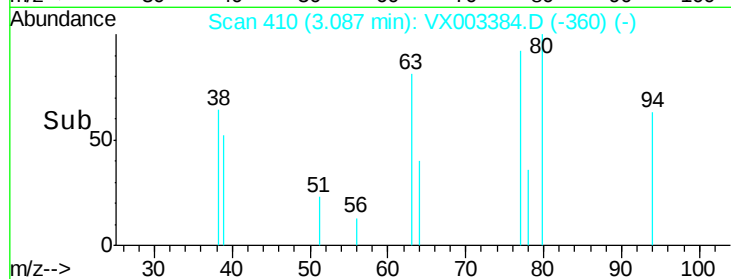
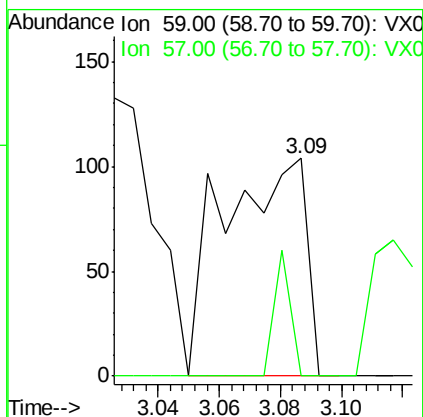
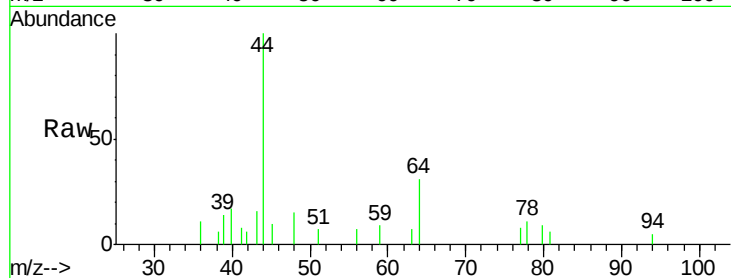




#11
Tert butyl alcohol
Concen: 0.23 ug/l
RT: 3.09 min Scan# 410
Delta R.T. 0.01 min
Lab File: VX003384.D
Acq: 14 Jul 2018 01:33

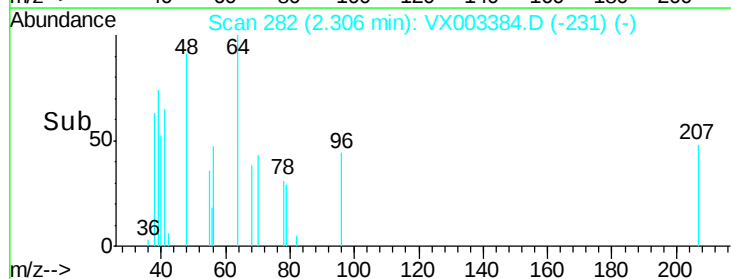
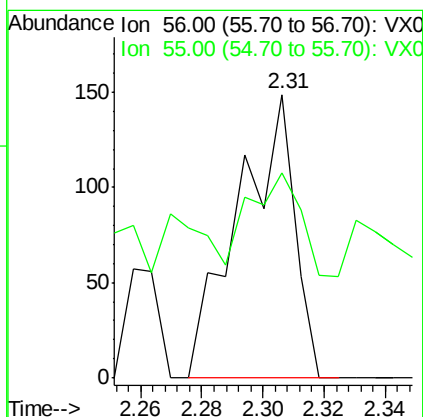
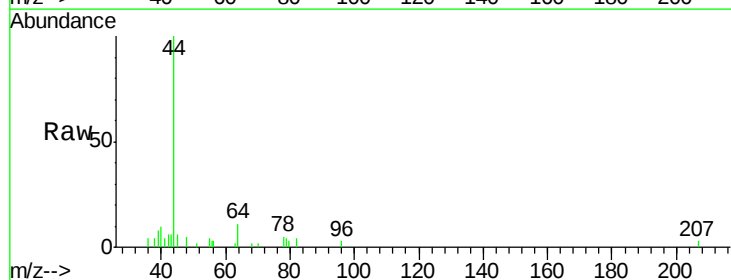
Instrument :
MSVOA_X
ClientSampled :
PB111071TB

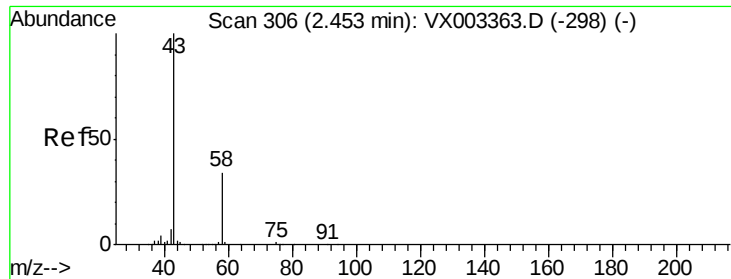
Tot Ion: 59 Resp: 195
Ion Ratio Lower Upper
59 100
57 11.3 8.2 12.2



#13
Acrolein
Concen: Below Cal
RT: 2.31 min Scan# 282
Delta R.T. 0.01 min
Lab File: VX003384.D
Acq: 14 Jul 2018 01:33

Tgt Ion: 56 Resp: 189
Ion Ratio Lower Upper
56 100
55 33.3 57.0 85.4#





#16

Acetone

Concen: 9.97 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX003384.D

Acq: 14 Jul 2018 01:33

Instrument :

MSVOA_X

ClientSampleId :

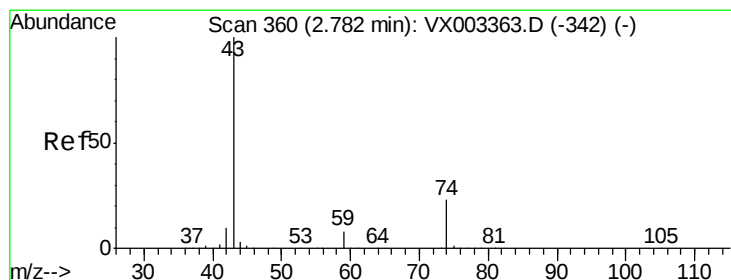
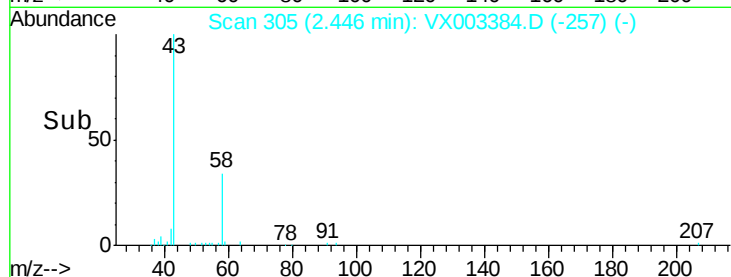
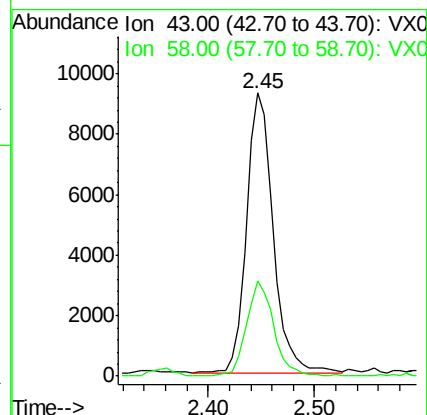
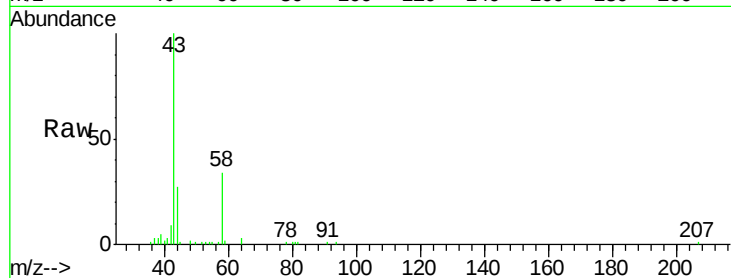
PB111071TB

Tot Ion: 43 Resp: 16247

Ion Ratio Lower Upper

43 100

58 34.0 22.1 33.1#



#18

Methyl Acetate

Concen: 5.46 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX003384.D

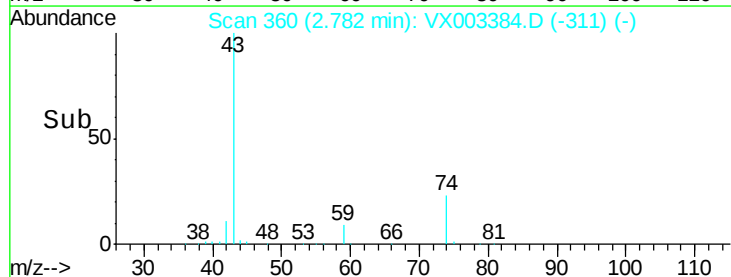
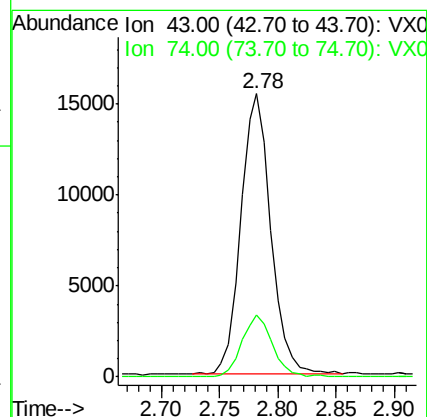
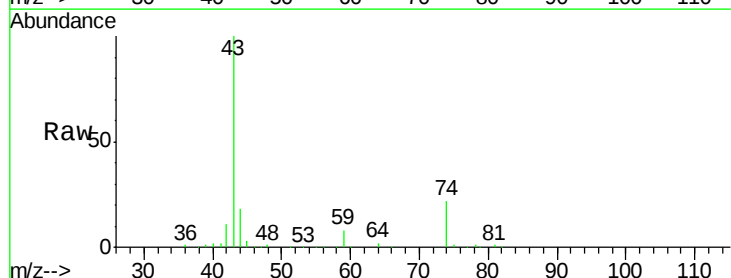
Acq: 14 Jul 2018 01:33

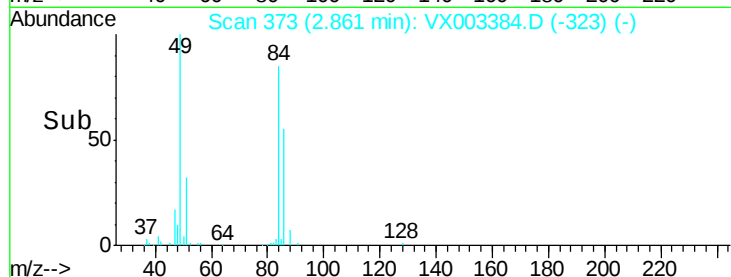
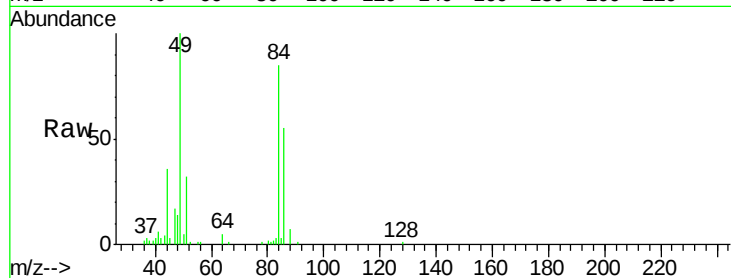
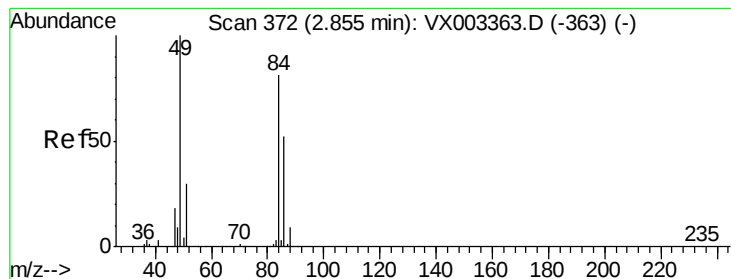
Tgt Ion: 43 Resp: 27608

Ion Ratio Lower Upper

43 100

74 22.6 16.7 25.1





#20

Methylene Chloride

Concen: 1.52 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX003384.D

Acq: 14 Jul 2018 01:33

Instrument :

MSVOA_X

ClientSampleId :

PB111071TB

Tot Ion: 84 Resp: 9709

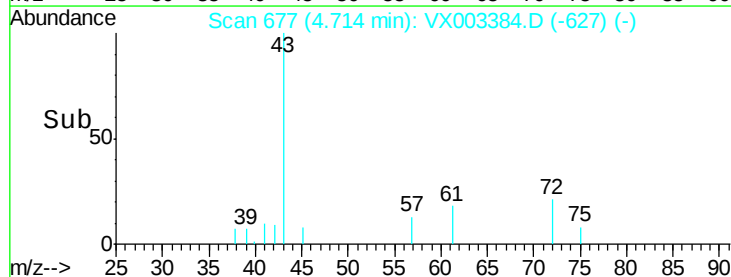
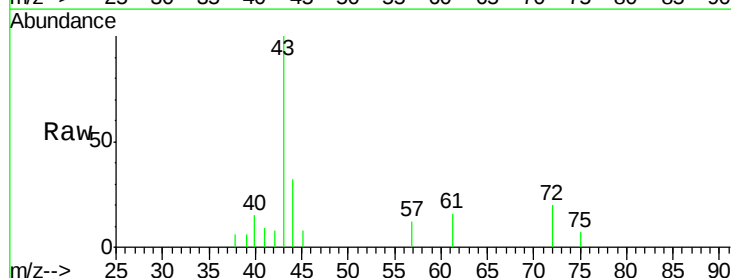
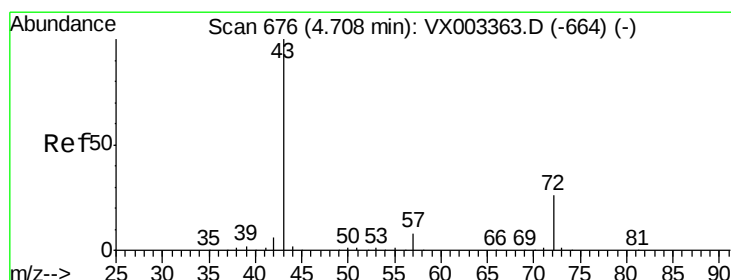
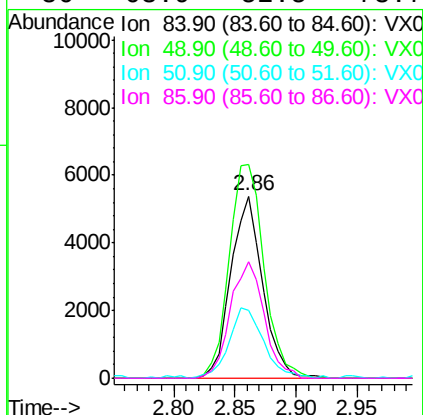
Ion Ratio Lower Upper

84 100

49 117.3 107.8 161.6

51 37.3 32.8 49.2

86 63.9 52.5 78.7



#25

2-Butanone

Concen: 1.33 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.01 min

Lab File: VX003384.D

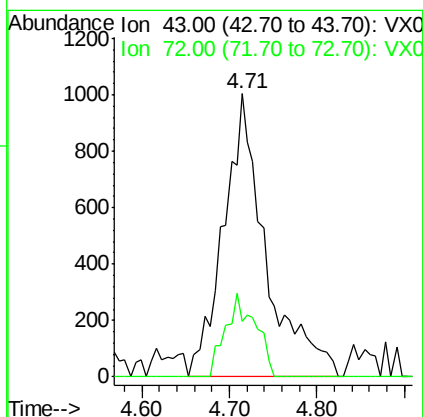
Acq: 14 Jul 2018 01:33

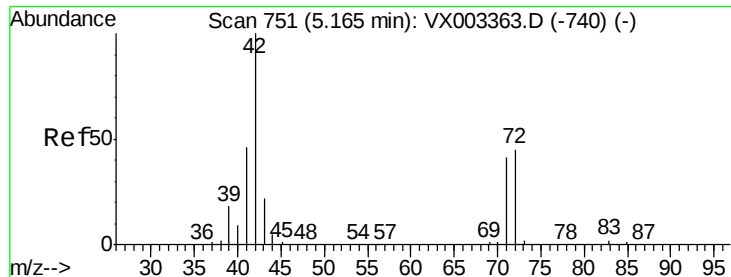
Tgt Ion: 43 Resp: 3371

Ion Ratio Lower Upper

43 100

72 19.7 18.5 27.7





#29

Tetrahydrofuran

Concen: 0.82 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX003384.D

Acq: 14 Jul 2018 01:33

Instrument :

MSVOA_X

ClientSampled :

PB111071TB

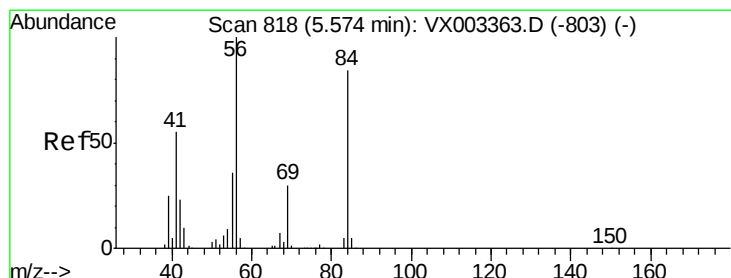
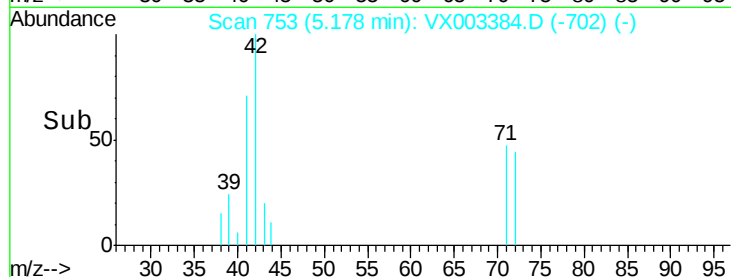
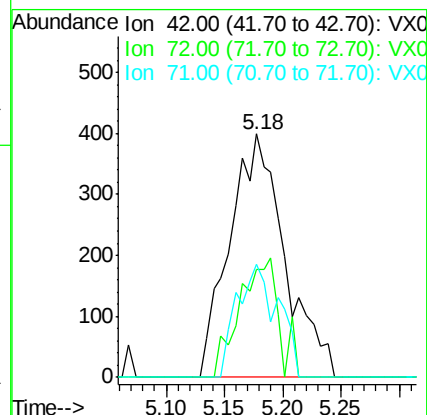
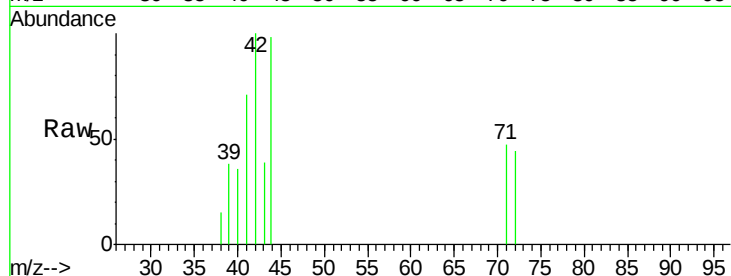
Tot Ion: 42 Resp: 1318

Ion Ratio Lower Upper

42 100

72 34.8 32.0 48.0

71 34.5 30.1 45.1



#31

Cyclohexane

Concen: 1.01 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX003384.D

Acq: 14 Jul 2018 01:33

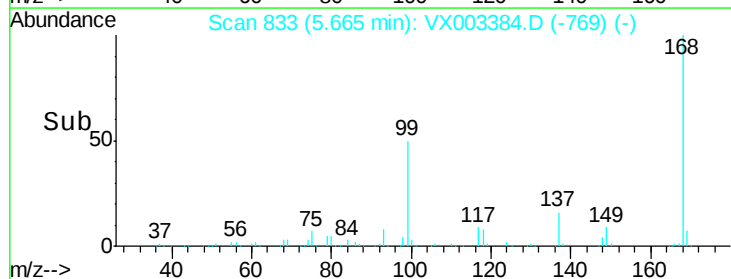
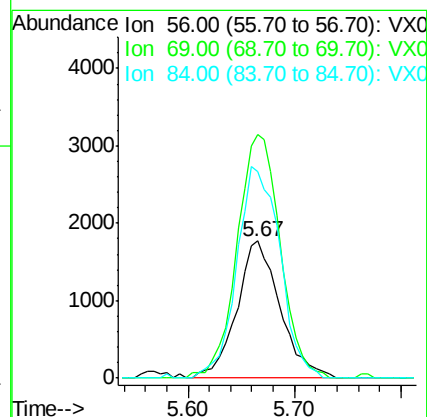
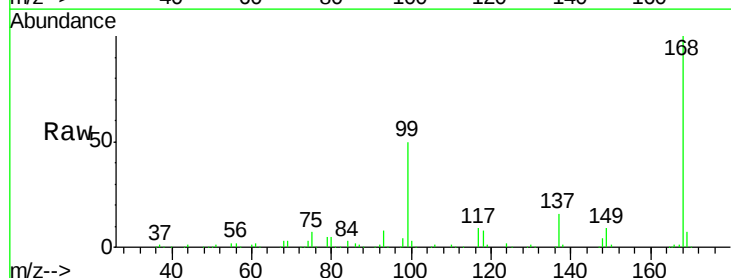
Tgt Ion: 56 Resp: 5065

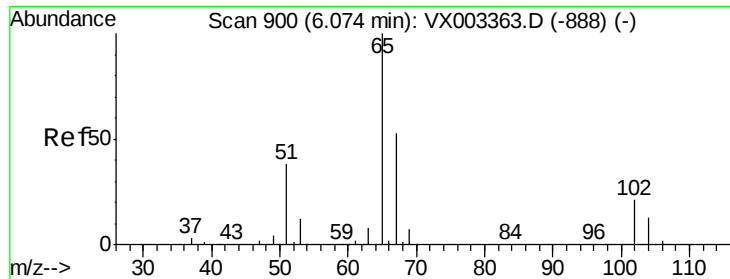
Ion Ratio Lower Upper

56 100

69 177.9 23.7 35.5#

84 151.1 64.1 96.1#

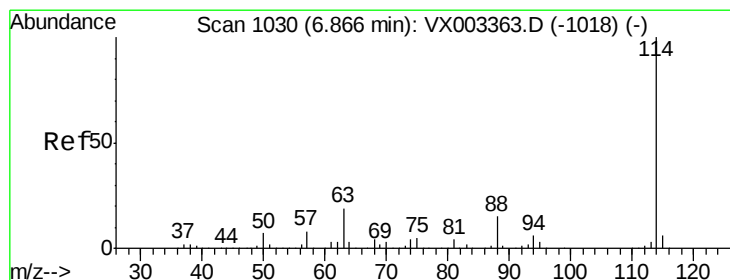
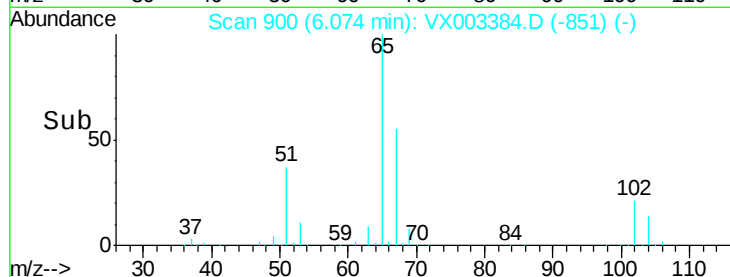
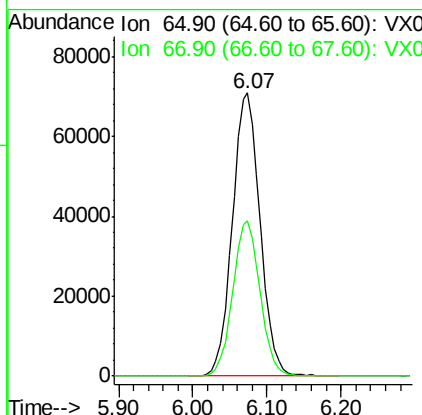
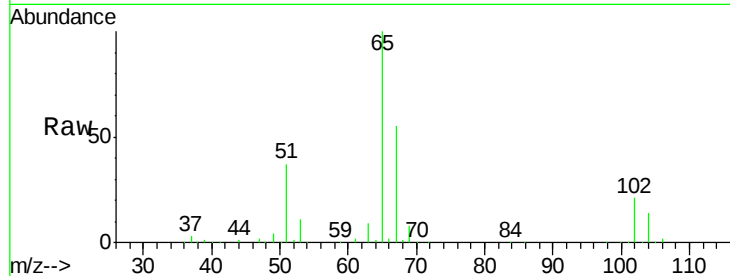




#33
 1,2-Dichloroethane-d4
 Concen: 58.28 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX003384.D
 Acq: 14 Jul 2018 01:33

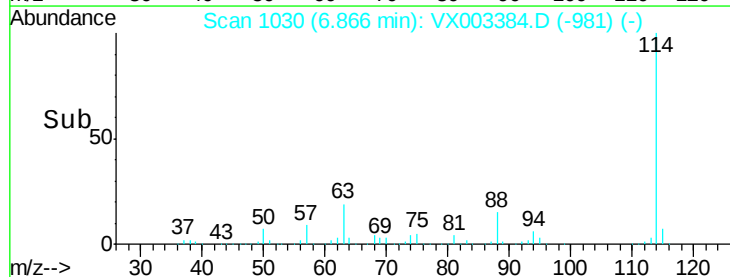
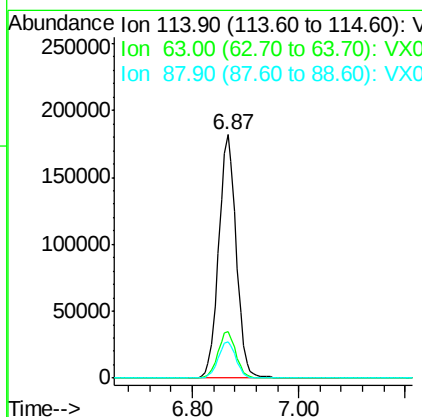
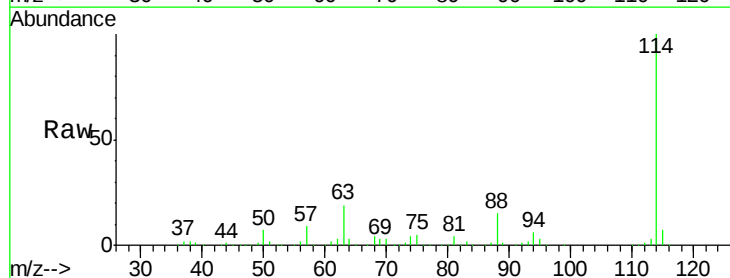
Instrument :
 MSVOA_X
 ClientSampleId :
 PB111071TB

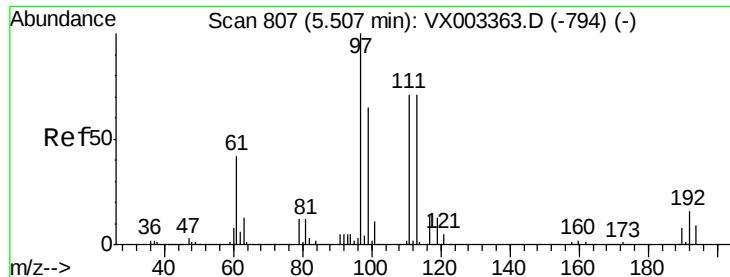
Tot Ion: 65 Resp: 184478
 Ion Ratio Lower Upper
 65 100
 67 54.2 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX003384.D
 Acq: 14 Jul 2018 01:33

Tgt Ion: 114 Resp: 419983
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 41.4
 88 14.6 0.0 30.0

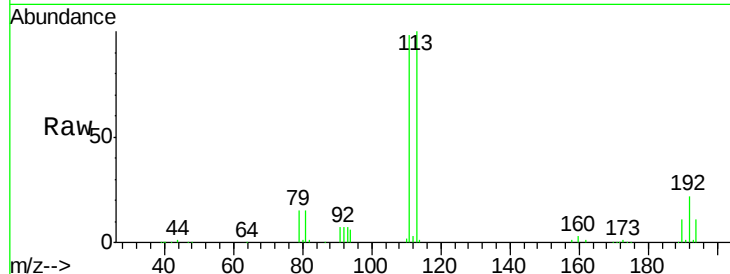




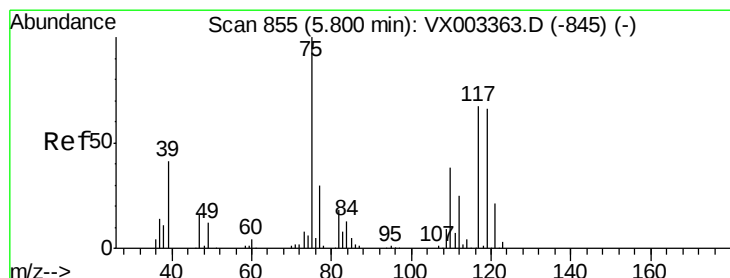
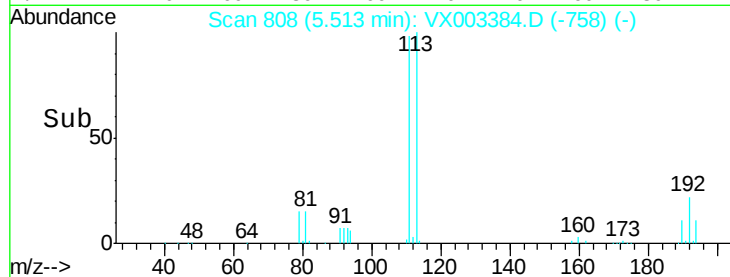
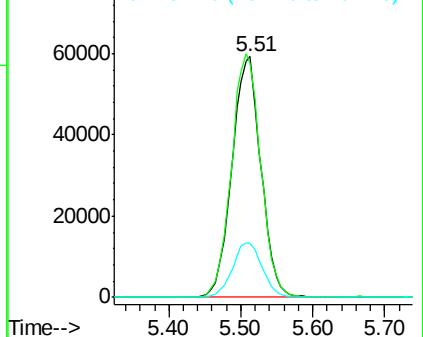
#35
 Dibromofluoromethane
 Concen: 53.49 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. 0.01 min
 Lab File: VX003384.D
 Acq: 14 Jul 2018 01:33

Instrument :
 MSVOA_X
 ClientSampleId :
 PB111071TB

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.4	122.0
192	23.2	19.1	28.7

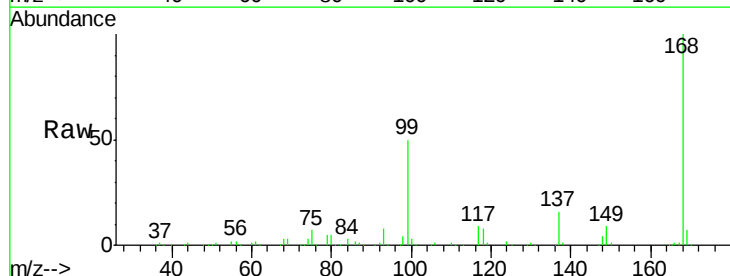


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

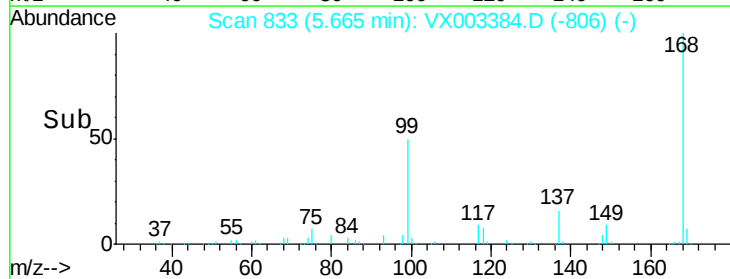
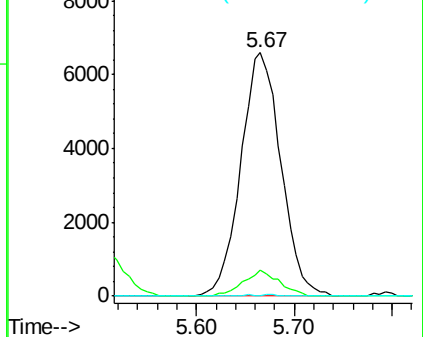


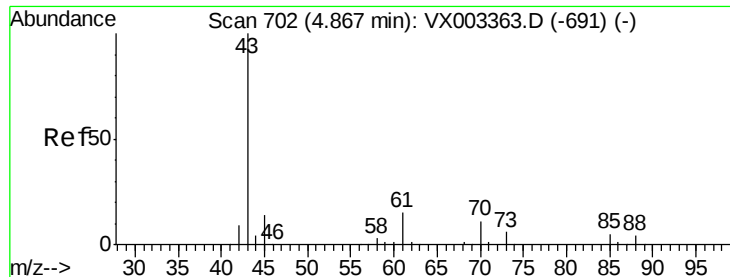
#36
 1,1-Dichloropropene
 Concen: 4.20 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX003384.D
 Acq: 14 Jul 2018 01:33

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.5	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





#37

Ethyl Acetate

Concen: 0.69 ug/l

RT: 4.71 min Scan# 677

Delta R.T. -0.15 min

Lab File: VX003384.D

Acq: 14 Jul 2018 01:33

Instrument :

MSVOA_X

ClientSampled :

PB111071TB

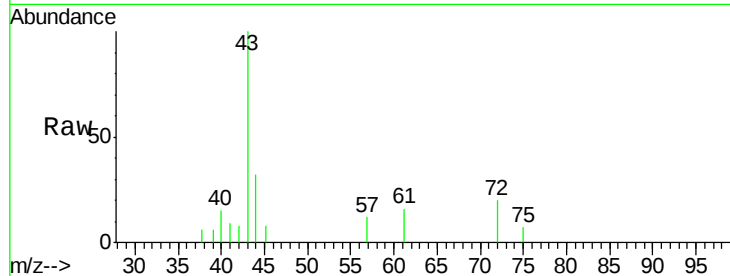
Tot Ion: 43 Resp: 3371

Ion Ratio Lower Upper

43 100

61 0.0 10.4 15.6#

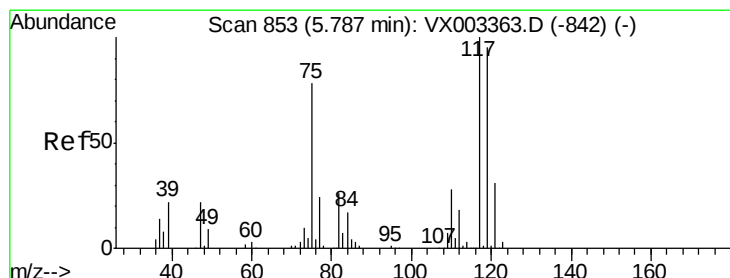
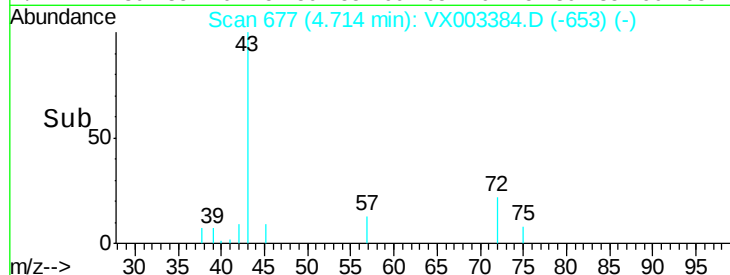
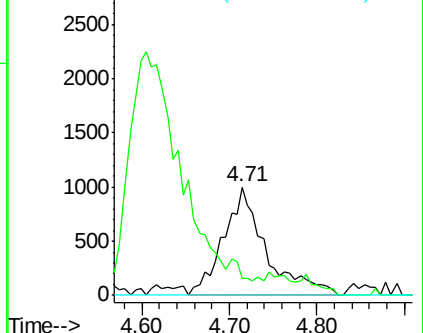
70 0.0 7.6 11.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0



#38

Carbon Tetrachloride

Concen: 5.59 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX003384.D

Acq: 14 Jul 2018 01:33

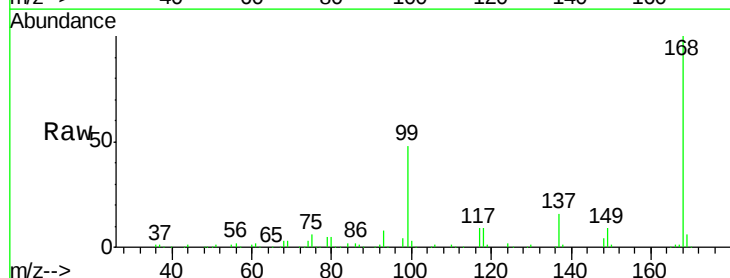
Tgt Ion: 117 Resp: 25444

Ion Ratio Lower Upper

117 100

119 8.0 77.4 116.0#

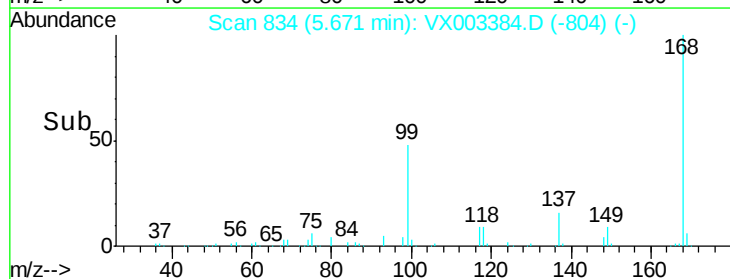
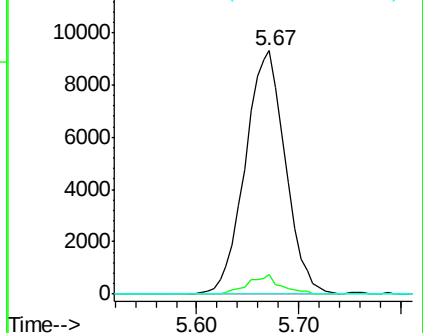
121 0.0 24.4 36.6#

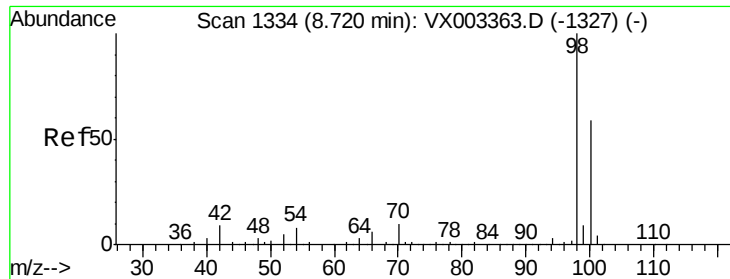


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 57.88 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003384.D

Acq: 14 Jul 2018 01:33

Instrument :

MSVOA_X

ClientSampleId :

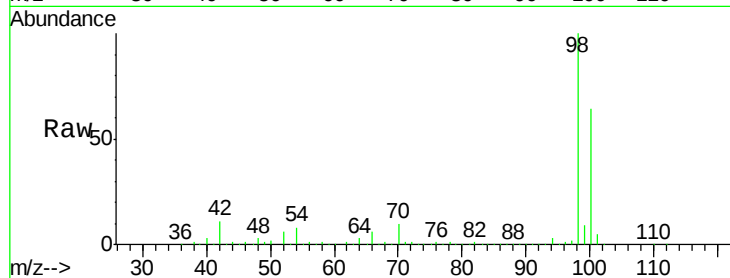
PB111071TB

Tot Ion: 98 Resp: 584206

Ion Ratio Lower Upper

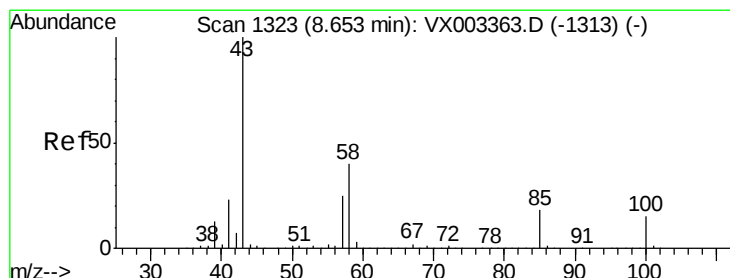
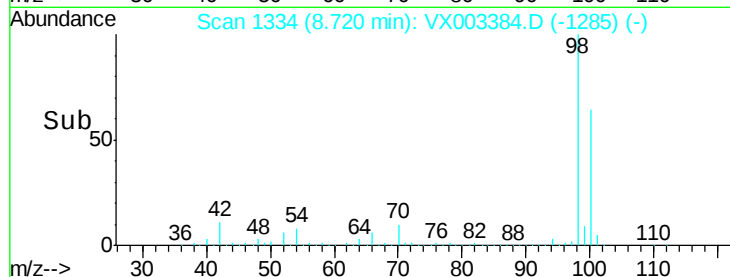
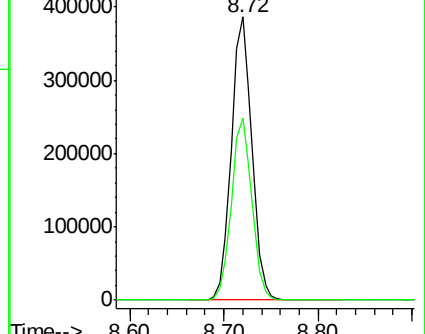
98 100

100 63.8 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#51

4-Methyl-2-Pentanone

Concen: 0.24 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. 0.00 min

Lab File: VX003384.D

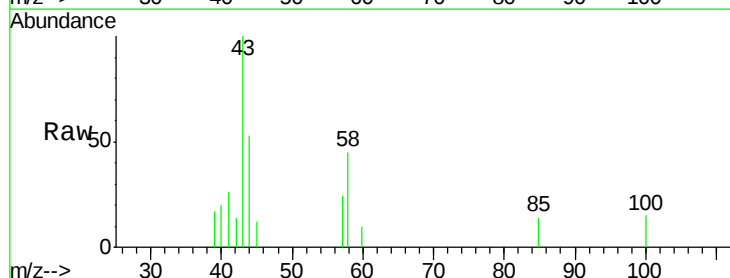
Acq: 14 Jul 2018 01:33

Tgt Ion: 43 Resp: 1199

Ion Ratio Lower Upper

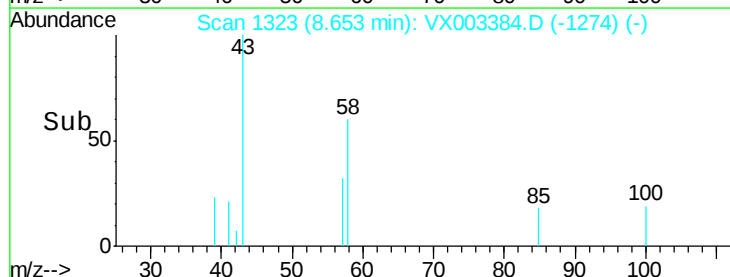
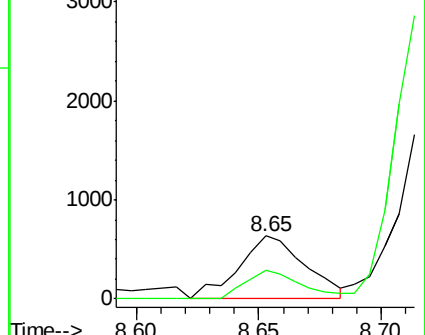
43 100

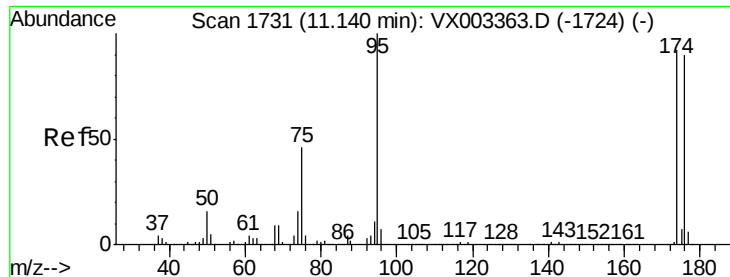
58 38.8 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 46.31 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX003384.D

Acq: 14 Jul 2018 01:33

Instrument :

MSVOA_X

ClientSampleId :

PB111071TB

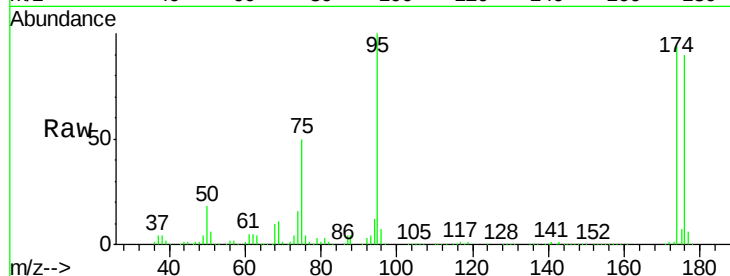
Tot Ion: 95 Resp: 199350

Ion Ratio Lower Upper

95 100

174 94.7 0.0 187.4

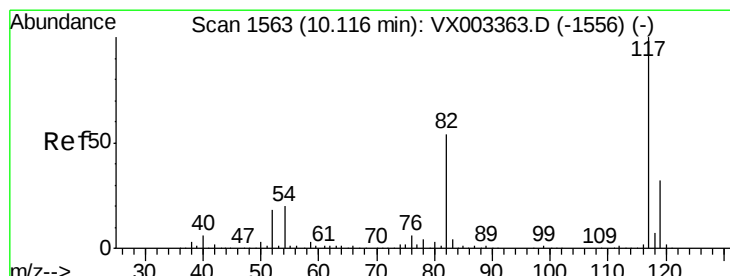
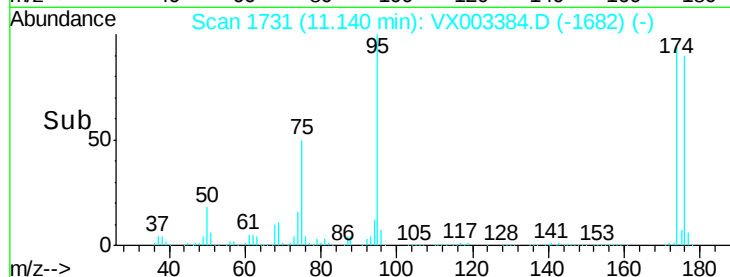
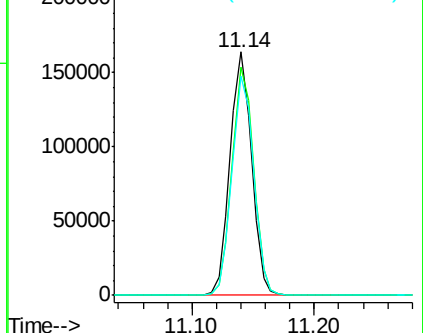
176 91.1 0.0 181.0



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: VX003384.D

Acq: 14 Jul 2018 01:33

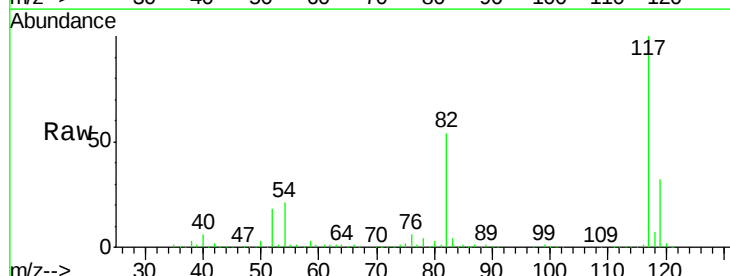
Tgt Ion: 117 Resp: 380535

Ion Ratio Lower Upper

117 100

82 54.0 45.0 67.4

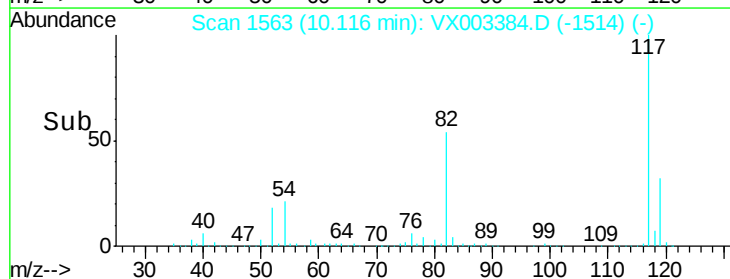
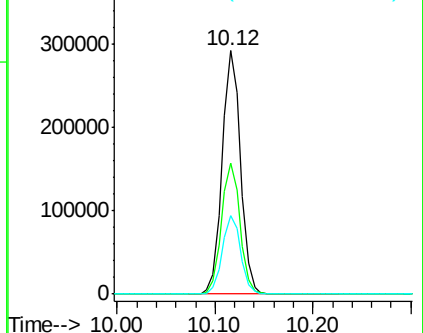
119 32.1 25.8 38.6

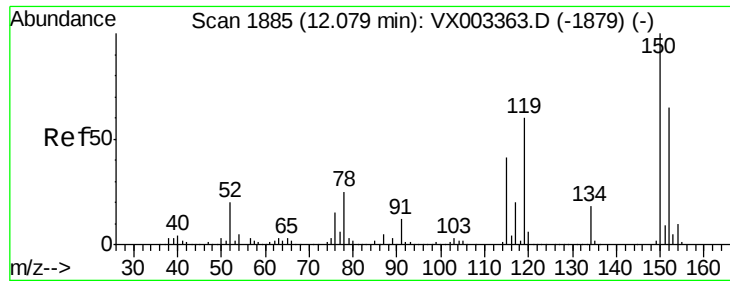


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003384.D

Acq: 14 Jul 2018 01:33

Instrument :

MSVOA_X

ClientSampleId :

PB111071TB

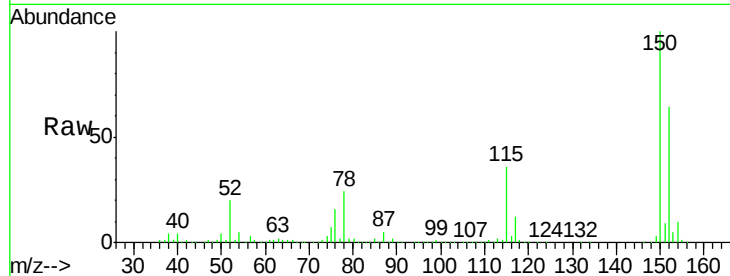
Tot Ion:152 Resp: 209171

Ion Ratio Lower Upper

152 100

115 55.3 40.1 120.2

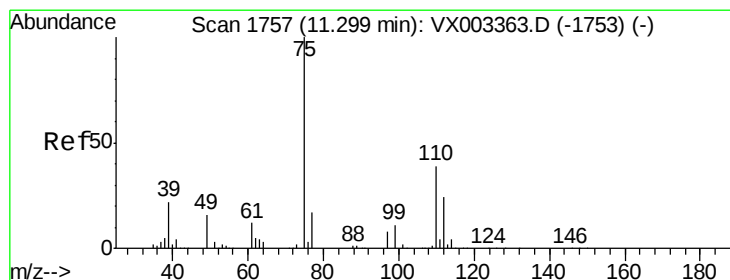
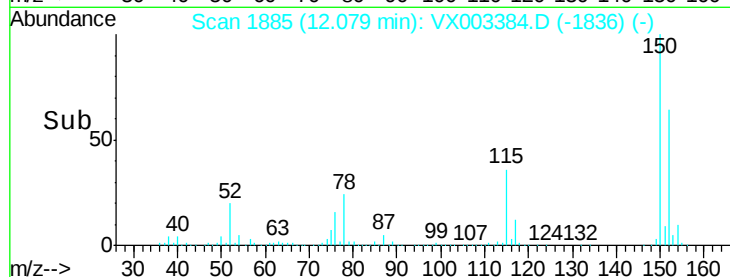
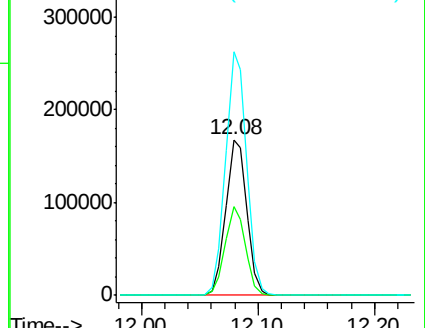
150 156.1 0.0 347.2



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: 24.23 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003384.D

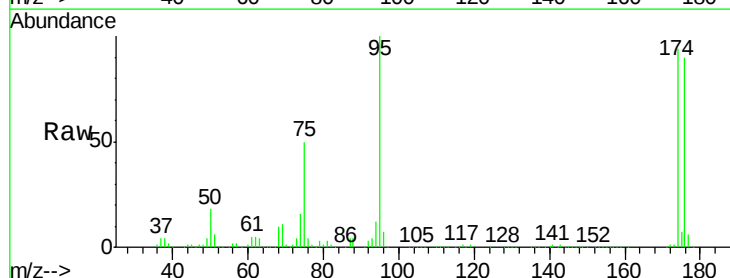
Acq: 14 Jul 2018 01:33

Tgt Ion: 75 Resp: 100139

Ion Ratio Lower Upper

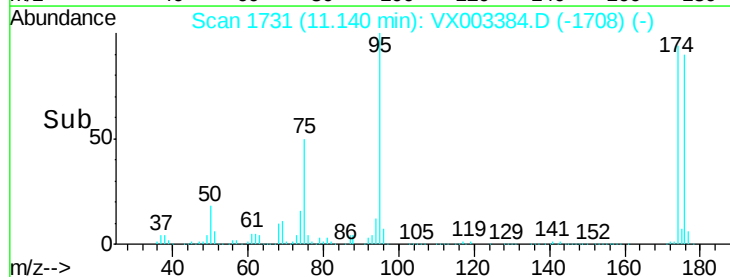
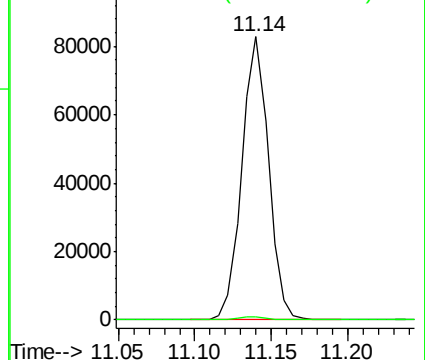
75 100

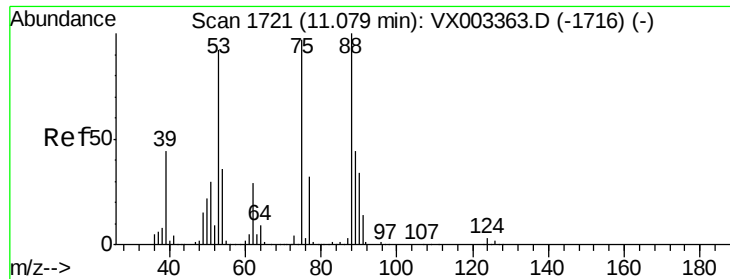
77 1.3 22.8 68.3#



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: 80.79 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003384.D

Acq: 14 Jul 2018 01:33

Instrument :

MSVOA_X

ClientSampled :

PB111071TB

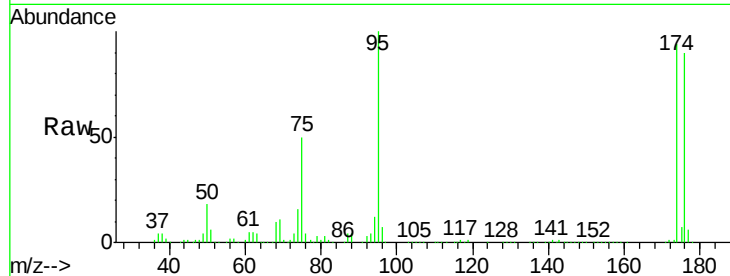
Tot Ion: 75 Resp: 100139

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

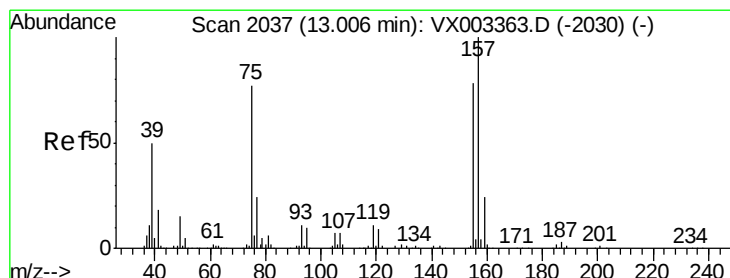
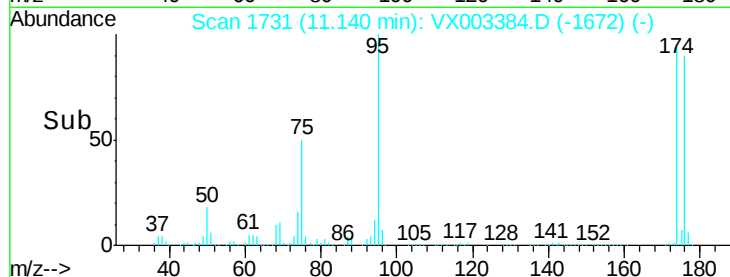
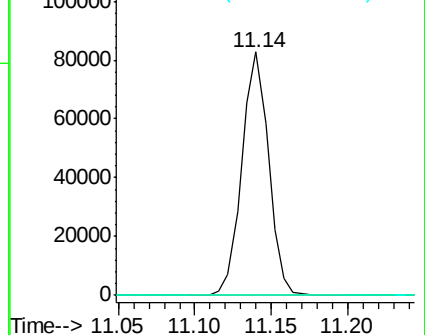
89 0.0 38.2 57.2#



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: 0.29 ug/l

RT: 12.98 min Scan# 2033

Delta R.T. -0.02 min

Lab File: VX003384.D

Acq: 14 Jul 2018 01:33

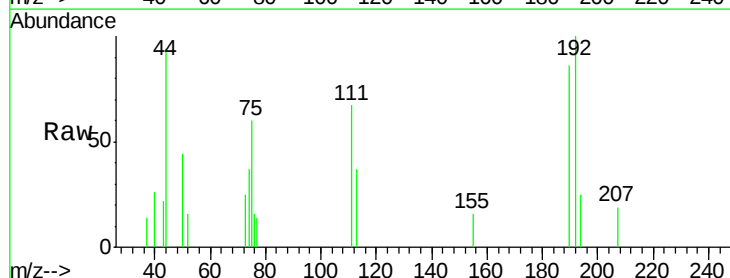
Tgt Ion: 75 Resp: 276

Ion Ratio Lower Upper

75 100

155 25.0 45.8 137.4#

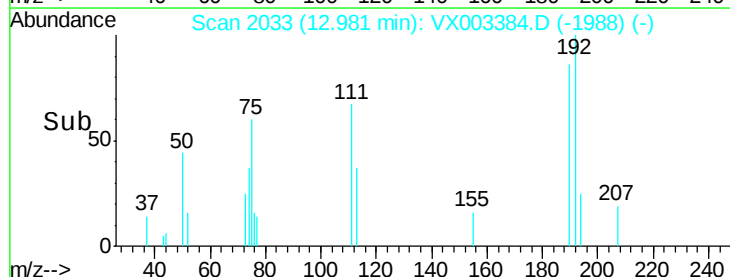
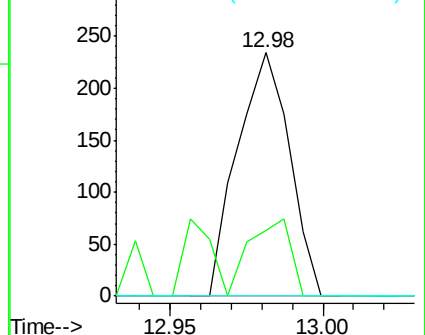
157 0.0 60.1 180.3#

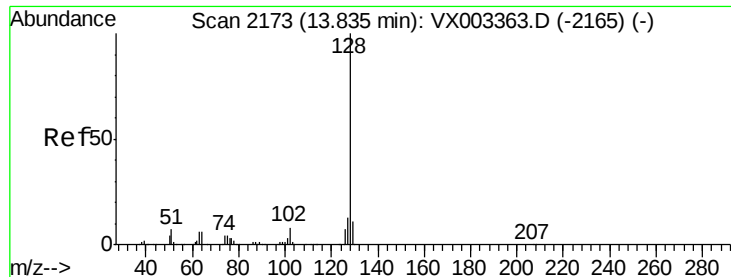


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 0.29 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. 0.01 min

Lab File: VX003384.D

Acq: 14 Jul 2018 01:33

Instrument :

MSVOA_X

ClientSampleId :

PB111071TB

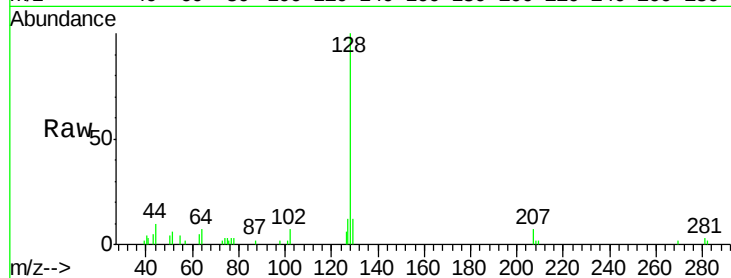
Tot Ion:128 Resp: 4184

Ion Ratio Lower Upper

128 100

127 13.4 10.4 15.6

129 12.1 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

