

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX041318\
 Data File : VX000862.D
 Acq On : 13 Apr 2018 20:43
 Operator : JC/MD
 Sample : J2348-10 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 281

Quant Time: Apr 14 05:16:47 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X041018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 10 15:49:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.68	168	244655	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	319982	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	290498	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	179552	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.08	65	141021	45.71	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.42%	
35) Dibromofluoromethane	5.51	113	114529	46.46	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.92%	
50) Toluene-d8	8.73	98	443843	48.35	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.70%	
62) 4-Bromofluorobenzene	11.15	95	167715	44.16	ug/l	0.00
Spiked Amount 50.000			Recovery	=	88.32%	

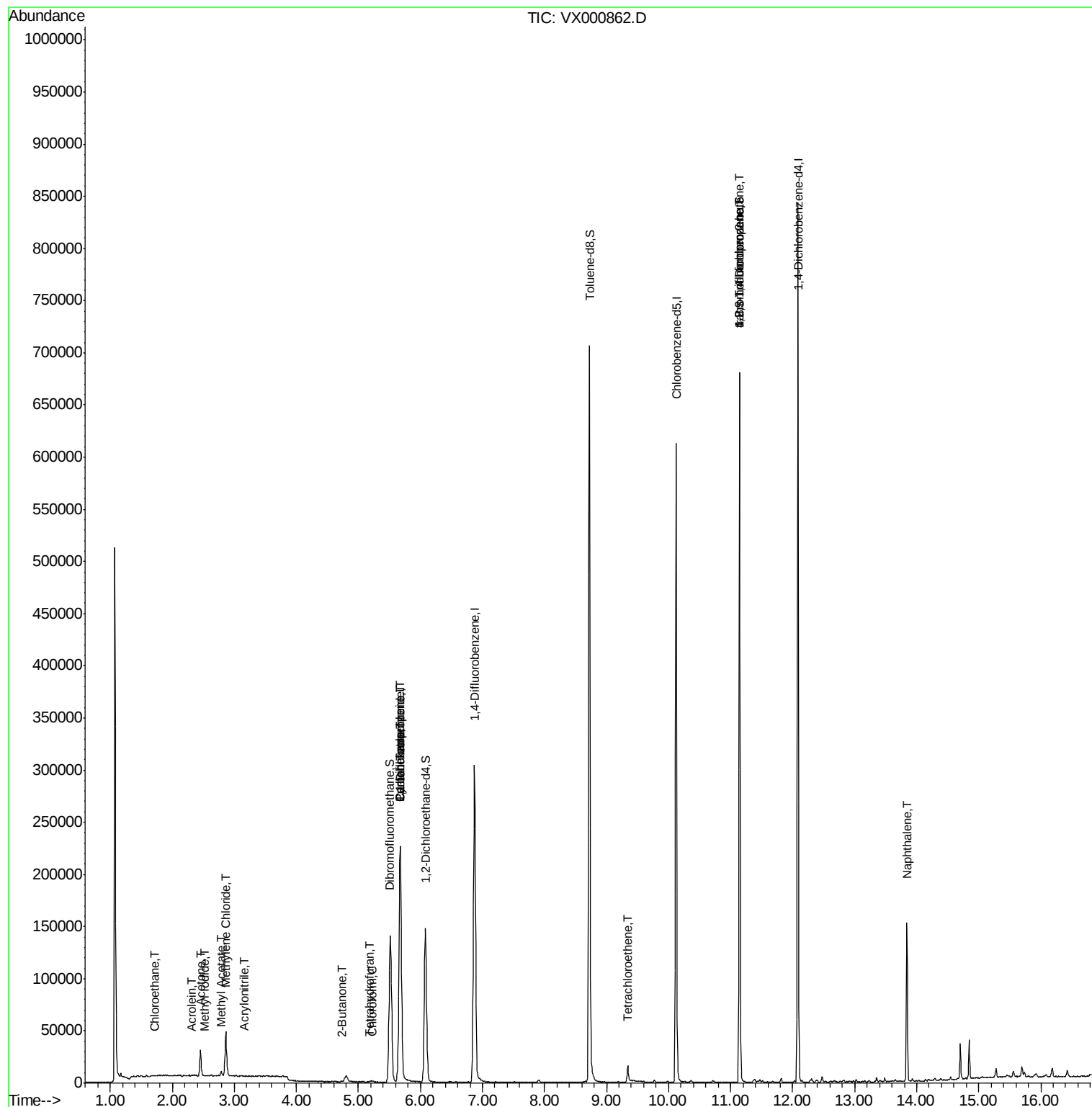
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	358	Below Cal	#	49
6) Chloroethane	1.71	64	1310	0.81	ug/l #	69
10) Methyl Iodide	2.52	142	113	8.28	ug/l #	42
13) Acrolein	2.30	56	132	0.50	ug/l #	63
15) Acrylonitrile	3.15	53	380	0.33	ug/l #	30
16) Acetone	2.45	43	25957	24.40	ug/l	98
18) Methyl Acetate	2.79	43	4872	1.77	ug/l	98
20) Methylene Chloride	2.86	84	19771	7.99	ug/l	98
25) 2-Butanone	4.73	43	873	0.50	ug/l #	89
29) Tetrahydrofuran	5.18	42	1076	0.96	ug/l #	51
30) Chloroform	5.23	83	950	0.21	ug/l	85
31) Cyclohexane	5.67	56	3993	0.98	ug/l #	1
36) 1,1-Dichloropropene	5.68	75	14933	4.24	ug/l #	48
38) Carbon Tetrachloride	5.67	117	20895	5.30	ug/l #	14
64) Tetrachloroethene	9.34	164	2252	0.79	ug/l	94
76) 1,2,3-Trichloropropane	11.15	75	82106	26.52	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.15	75	82106	72.94	ug/l #	11
95) Naphthalene	13.84	128	92766	7.10	ug/l	100

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.68 min Scan# 835

Delta R.T. 0.01 min

Lab File: VX000862.D

Acq: 13 Apr 2018 20:43

Instrument :

MSVOA_X

ClientSampled :

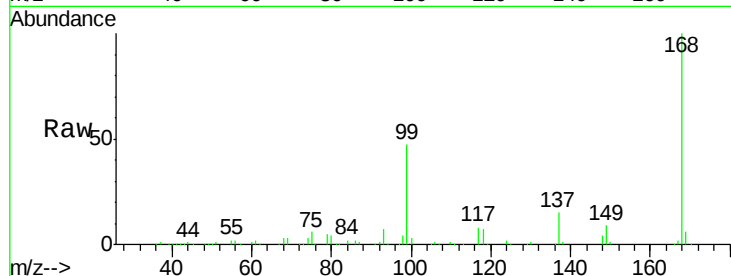
281

Tgt Ion:168 Resp: 244655

Ion Ratio Lower Upper

168 100

99 46.7 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.68

80000

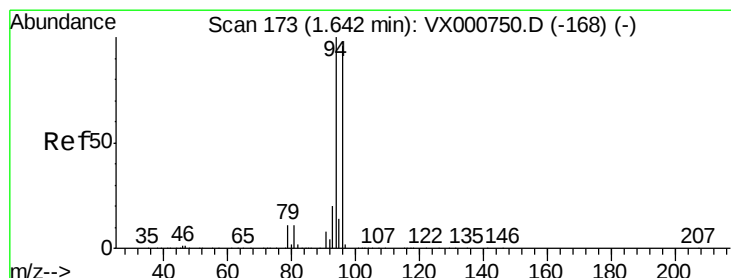
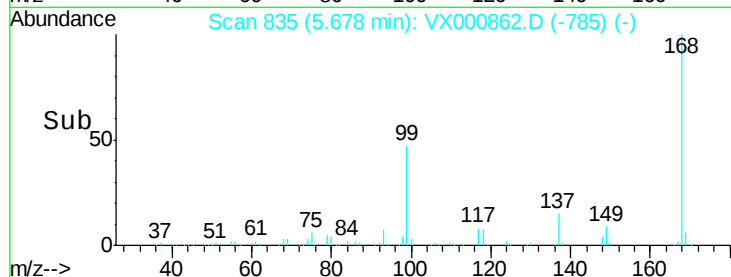
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX000862.D

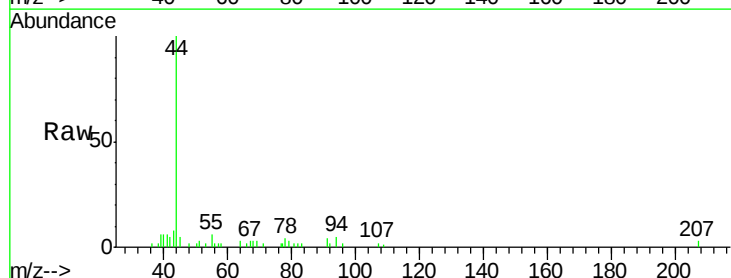
Acq: 13 Apr 2018 20:43

Tgt Ion: 94 Resp: 358

Ion Ratio Lower Upper

94 100

96 46.5 77.0 115.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

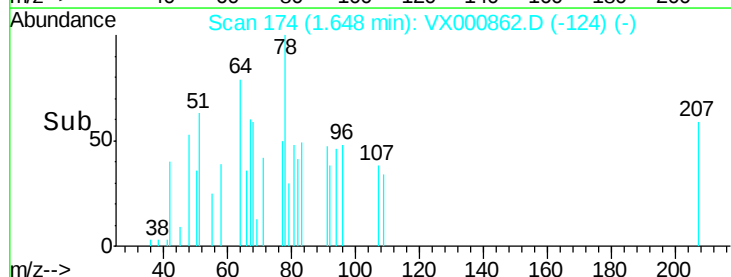
150

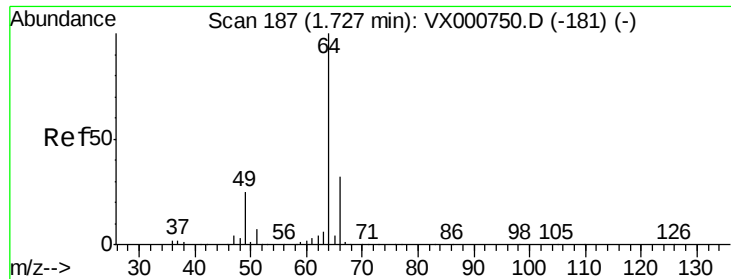
100

50

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: 0.81 ug/l

RT: 1.71 min Scan# 184

Delta R.T. -0.02 min

Lab File: VX000862.D

Acq: 13 Apr 2018 20:43

Instrument :

MSVOA_X

ClientSampleId :

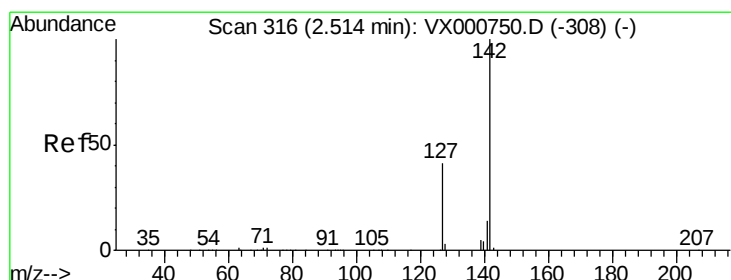
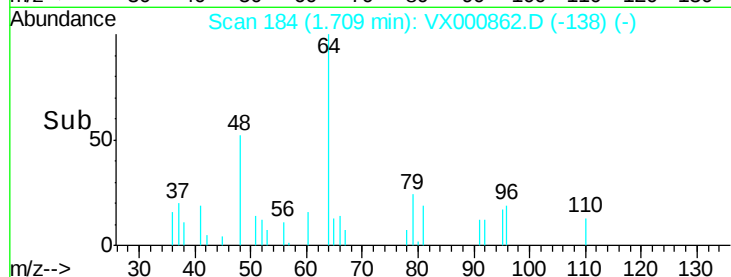
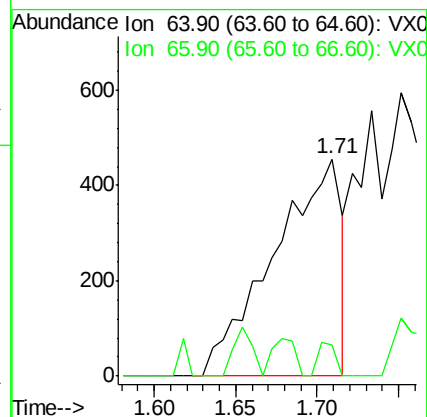
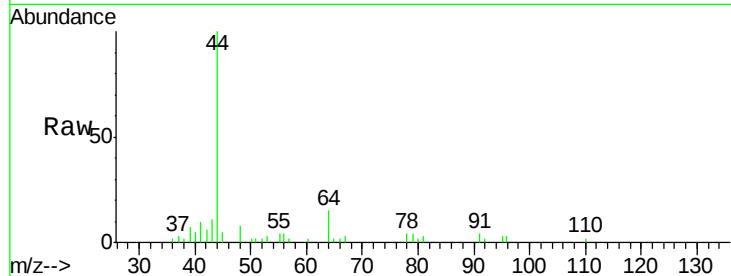
281

Tgt Ion: 64 Resp: 1310

Ion Ratio Lower Upper

64 100

66 14.5 25.3 37.9#



#10

Methyl Iodide

Concen: 8.28 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX000862.D

Acq: 13 Apr 2018 20:43

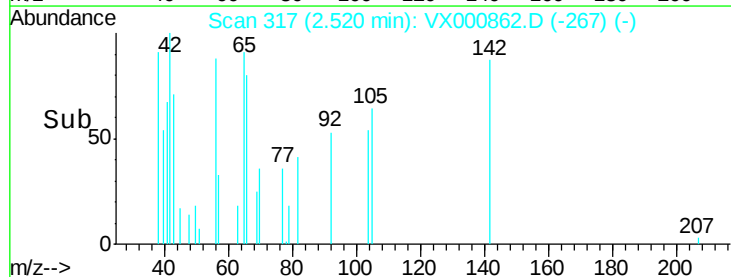
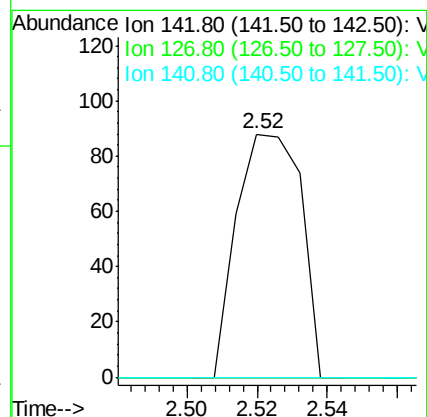
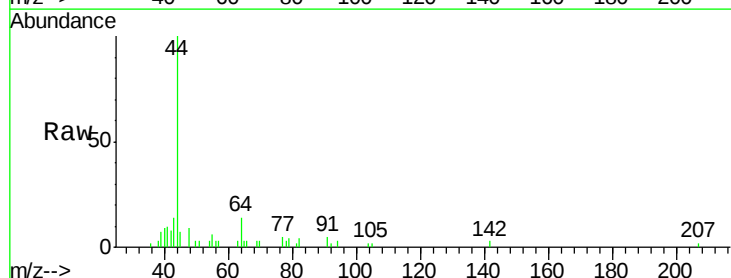
Tgt Ion: 142 Resp: 113

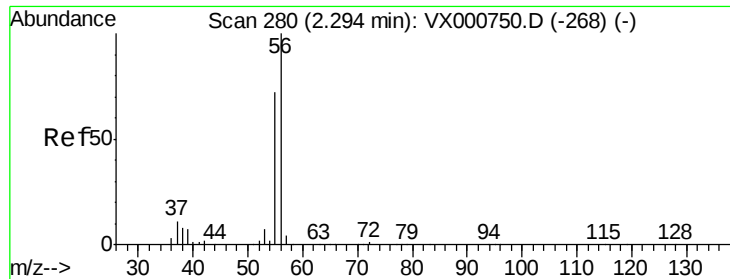
Ion Ratio Lower Upper

142 100

127 0.0 32.6 49.0#

141 0.0 11.5 17.3#





#13

Acrolein

Concen: 0.50 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX000862.D

Acq: 13 Apr 2018 20:43

Instrument :

MSVOA_X

ClientSampled :

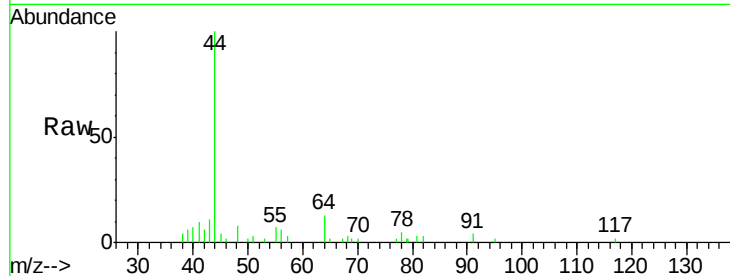
281

Tgt Ion: 56 Resp: 132

Ion Ratio Lower Upper

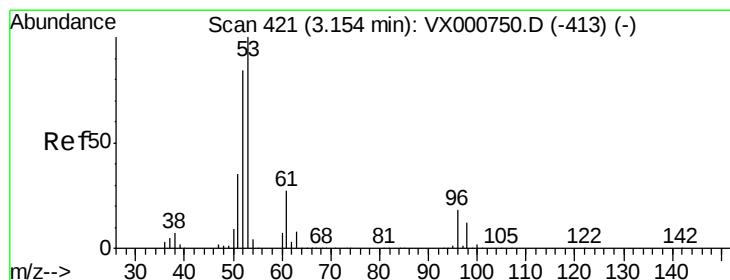
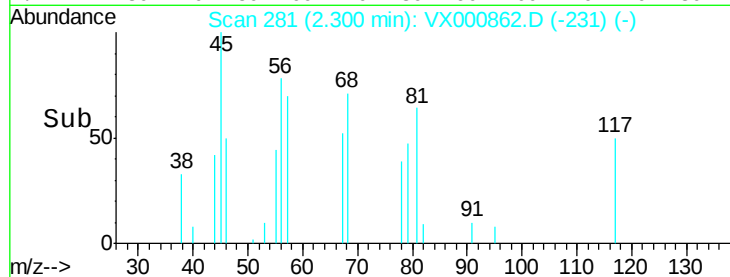
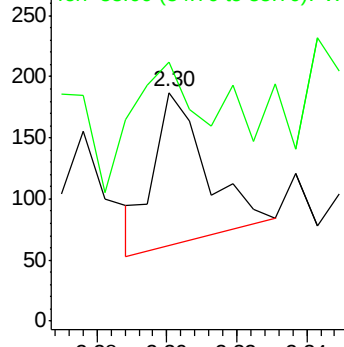
56 100

55 104.5 58.7 88.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.33 ug/l

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: VX000862.D

Acq: 13 Apr 2018 20:43

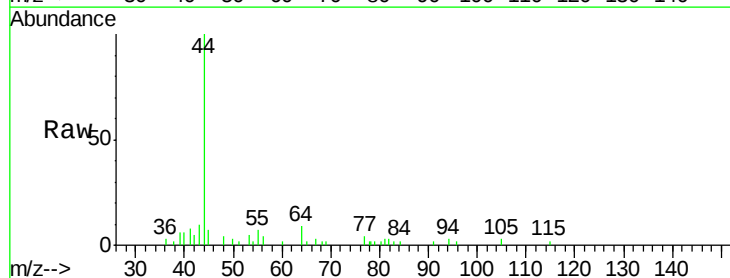
Tgt Ion: 53 Resp: 380

Ion Ratio Lower Upper

53 100

52 16.6 66.5 99.7#

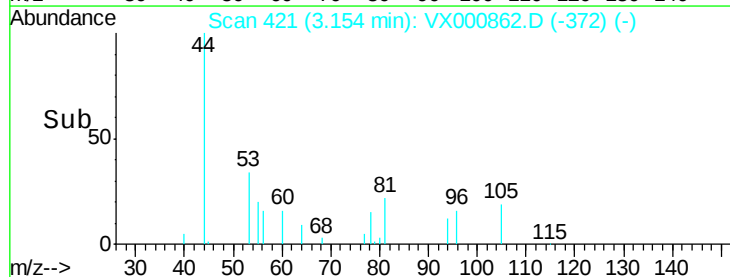
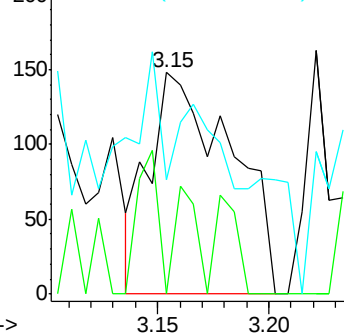
51 0.0 28.8 43.2#

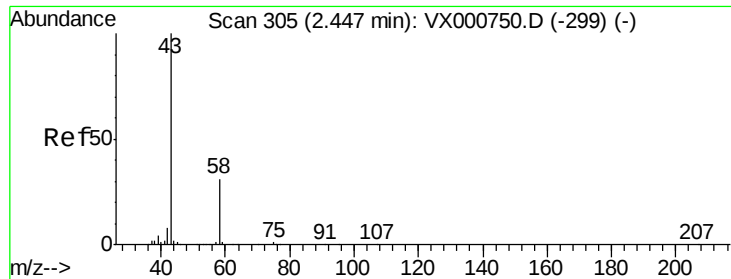


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 24.40 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX000862.D

Acq: 13 Apr 2018 20:43

Instrument :

MSVOA_X

ClientSampled :

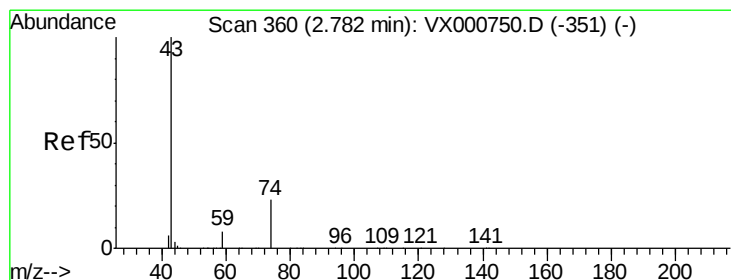
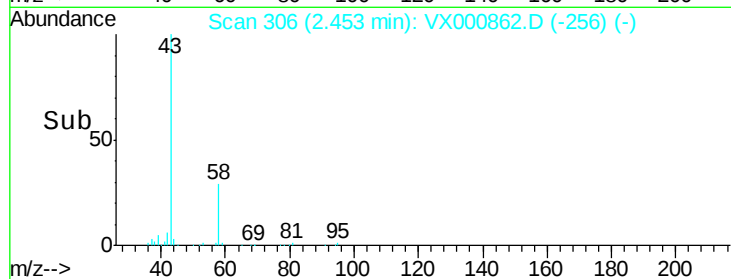
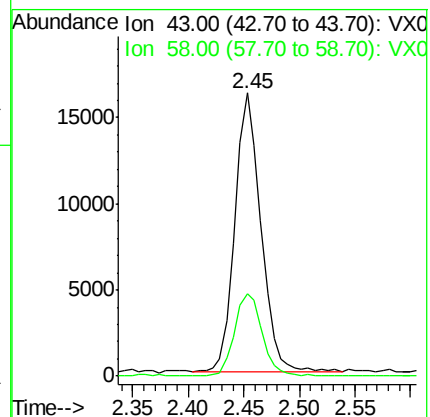
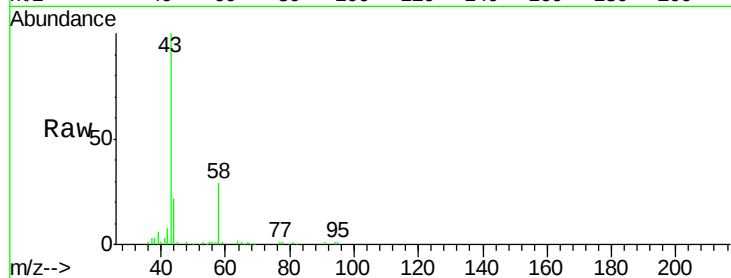
281

Tgt Ion: 43 Resp: 25957

Ion Ratio Lower Upper

43 100

58 29.5 24.6 37.0



#18

Methyl Acetate

Concen: 1.77 ug/l

RT: 2.79 min Scan# 361

Delta R.T. 0.01 min

Lab File: VX000862.D

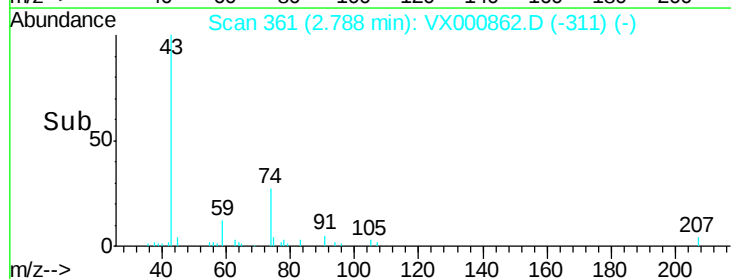
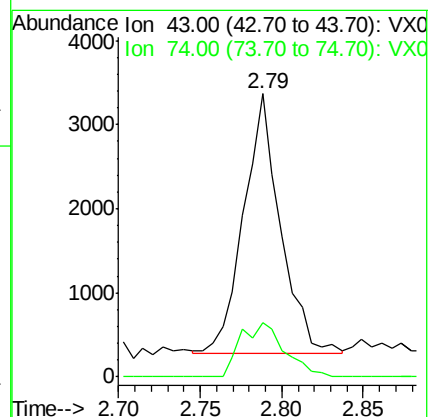
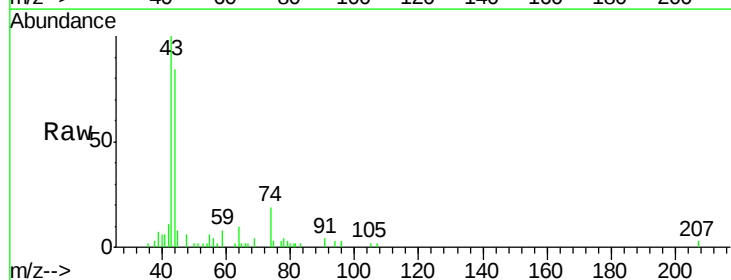
Acq: 13 Apr 2018 20:43

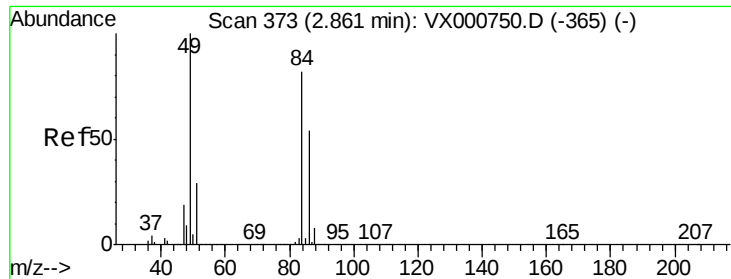
Tgt Ion: 43 Resp: 4872

Ion Ratio Lower Upper

43 100

74 25.0 19.1 28.7





#20

Methylene Chloride

Concen: 7.99 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX000862.D

Acq: 13 Apr 2018 20:43

Instrument :

MSVOA_X

ClientSampleId :

281

Tgt Ion: 84 Resp: 19771

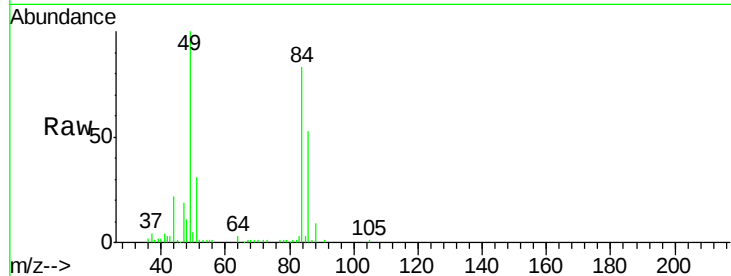
Ion Ratio Lower Upper

84 100

49 121.2 98.1 147.1

51 37.3 28.9 43.3

86 63.7 52.7 79.1

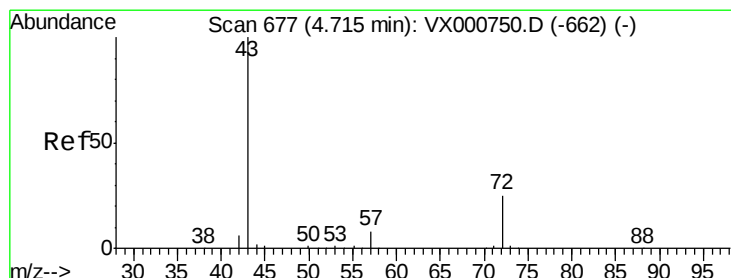
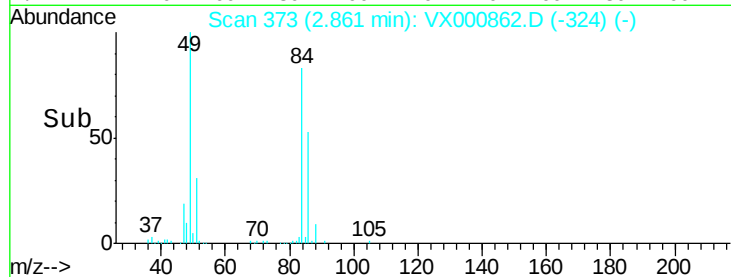
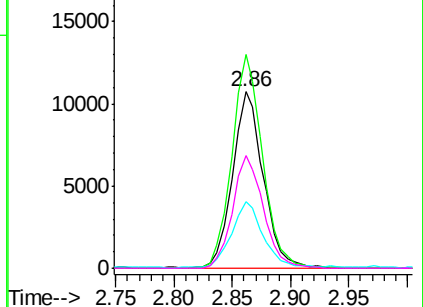


Abundance Ion 83.90 (83.60 to 84.60): VX0

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: 0.50 ug/l

RT: 4.73 min Scan# 680

Delta R.T. 0.02 min

Lab File: VX000862.D

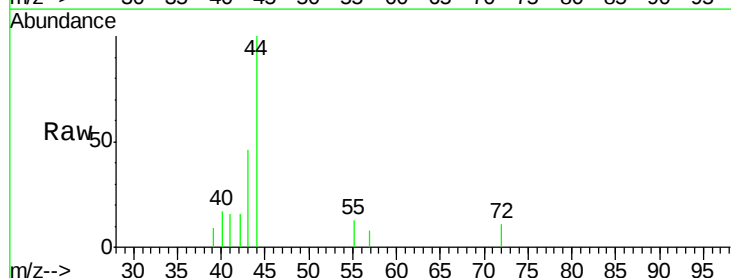
Acq: 13 Apr 2018 20:43

Tgt Ion: 43 Resp: 873

Ion Ratio Lower Upper

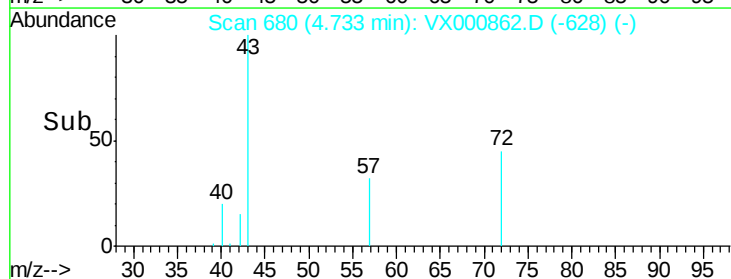
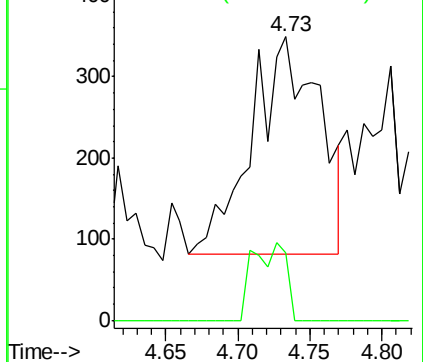
43 100

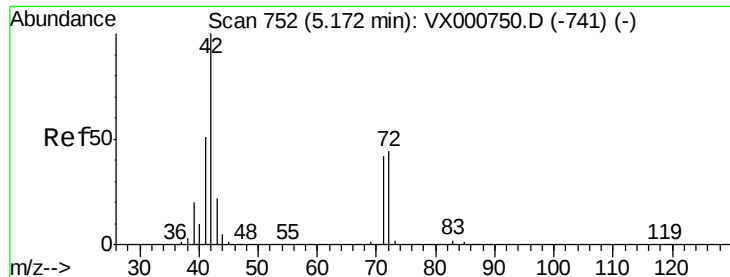
72 31.1 20.3 30.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.96 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.01 min

Lab File: VX000862.D

Acq: 13 Apr 2018 20:43

Instrument :

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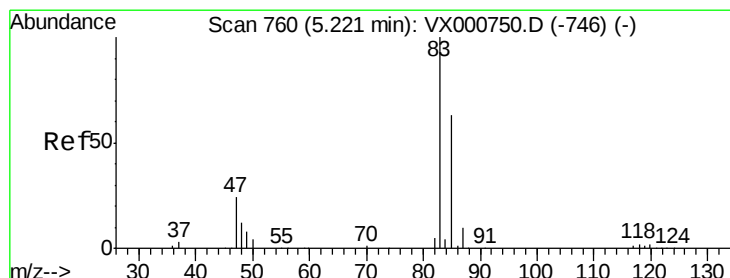
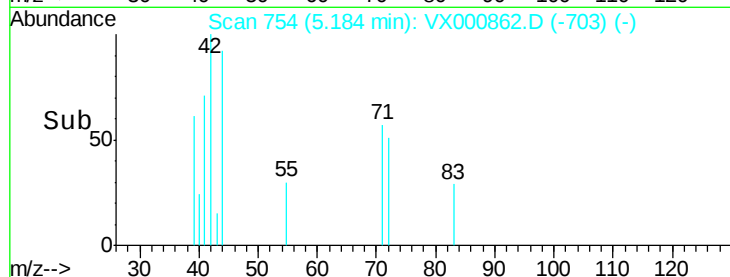
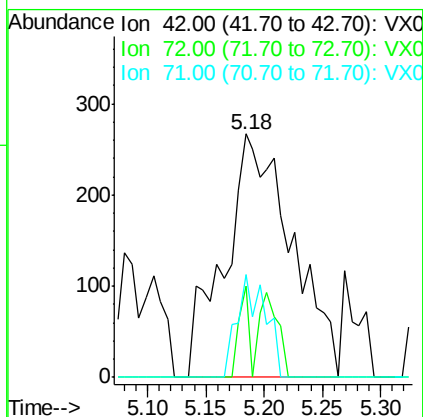
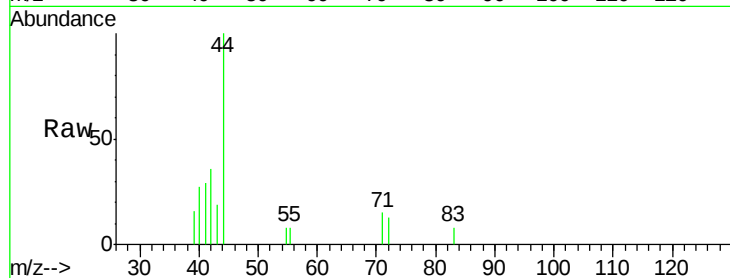
Tgt Ion: 42 Resp: 1076

Ion Ratio Lower Upper

42 100

72 5.5 35.1 52.7#

71 17.8 32.8 49.2#



#30

Chloroform

Concen: 0.21 ug/l

RT: 5.23 min Scan# 762

Delta R.T. 0.01 min

Lab File: VX000862.D

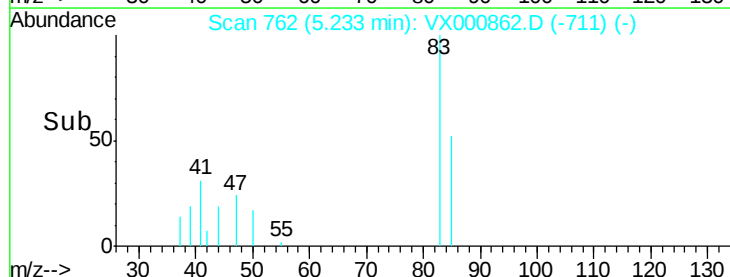
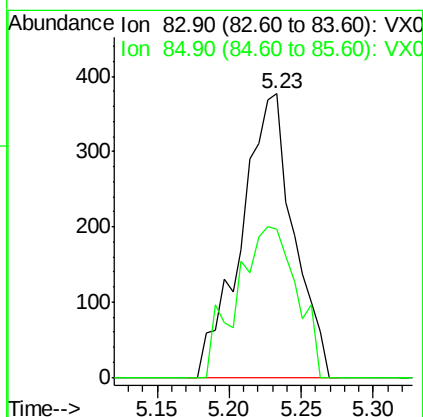
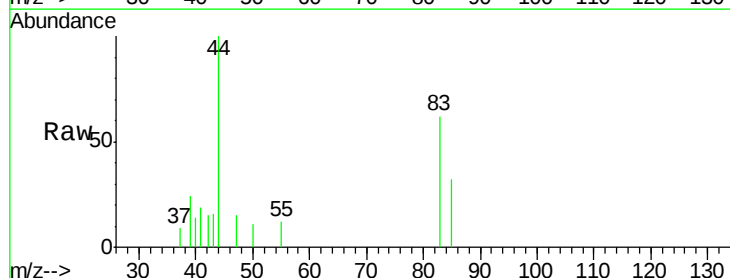
Acq: 13 Apr 2018 20:43

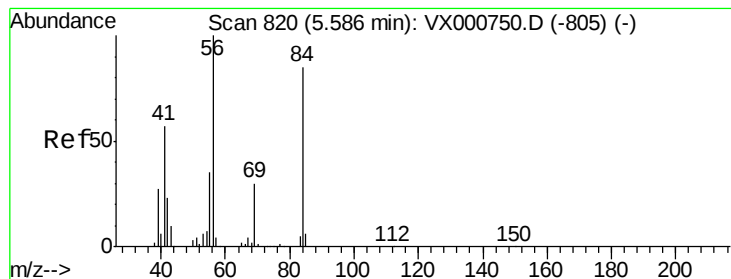
Tgt Ion: 83 Resp: 950

Ion Ratio Lower Upper

83 100

85 52.0 50.7 76.1





#31

Cyclohexane

Concen: 0.98 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.09 min

Lab File: VX000862.D

Acq: 13 Apr 2018 20:43

Instrument :

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ClientSampleId :

281

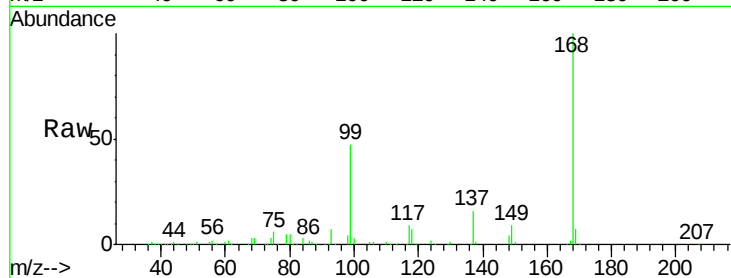
Tgt Ion: 56 Resp: 3993

Ion Ratio Lower Upper

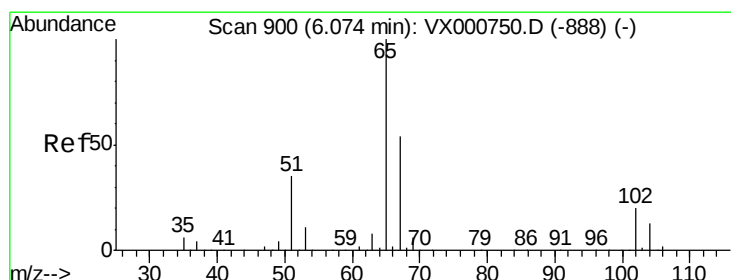
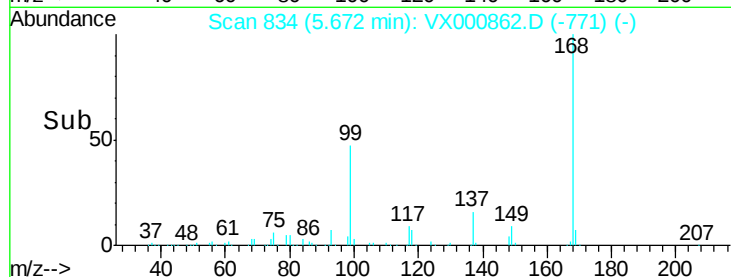
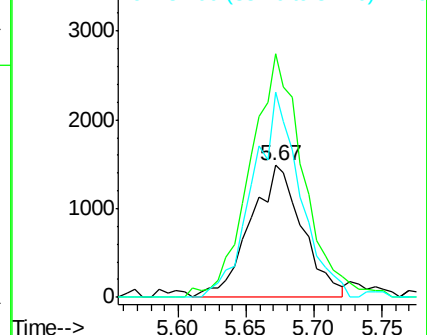
56 100

69 177.8 24.2 36.4#

84 155.3 67.6 101.4#



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: 45.71 ug/l

RT: 6.08 min Scan# 901

Delta R.T. 0.01 min

Lab File: VX000862.D

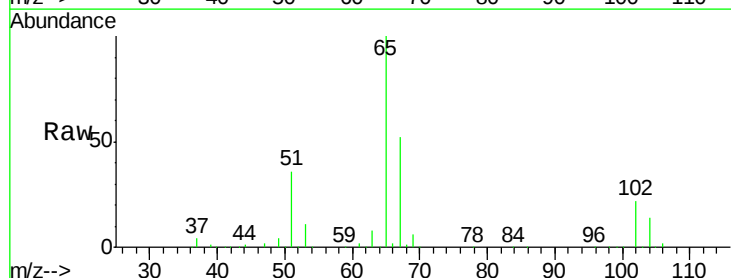
Acq: 13 Apr 2018 20:43

Tgt Ion: 65 Resp: 141021

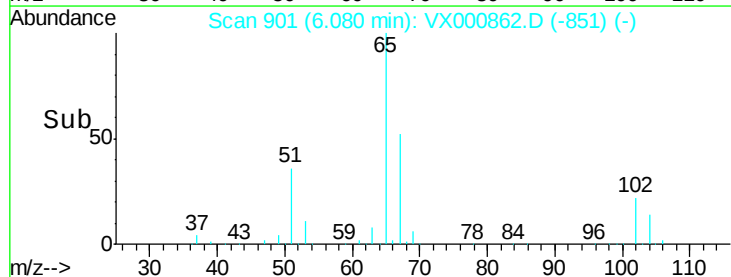
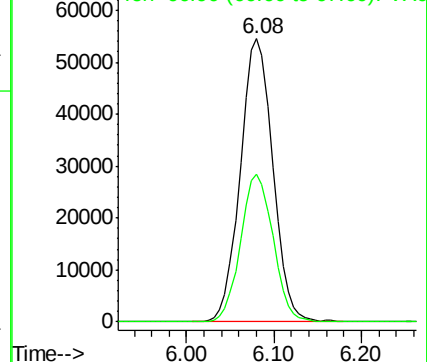
Ion Ratio Lower Upper

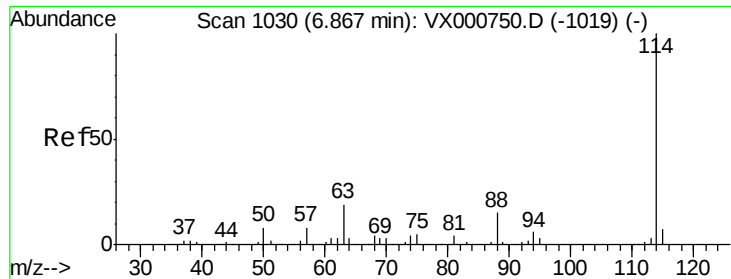
65 100

67 52.3 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

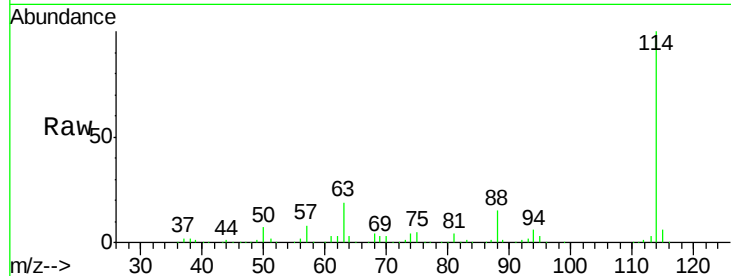




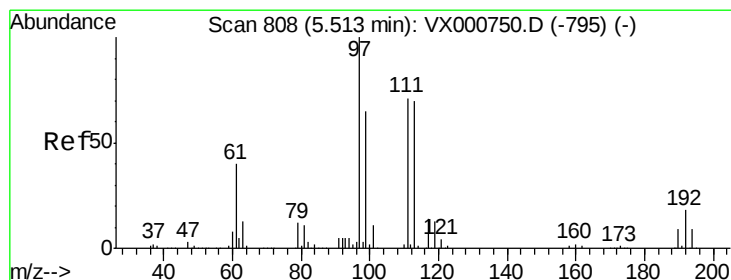
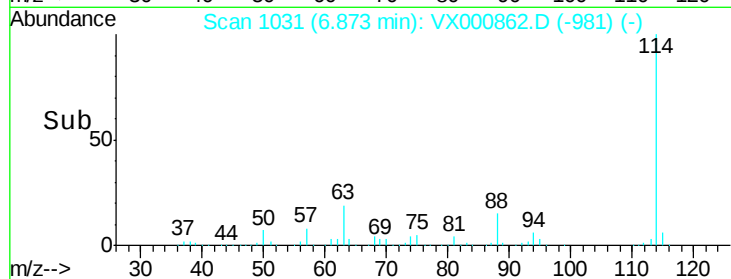
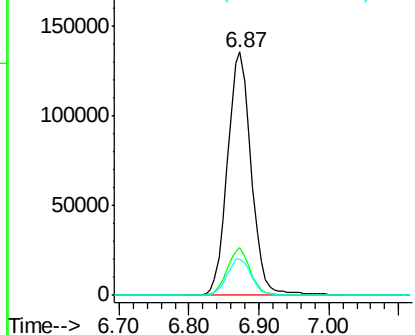
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1031
 Delta R.T. 0.01 min
 Lab File: VX000862.D
 Acq: 13 Apr 2018 20:43

Instrument :
 MSVOA_X
 ClientSampleId :
 281

Tgt Ion:114 Resp: 319982
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 38.4
 88 15.1 0.0 31.0

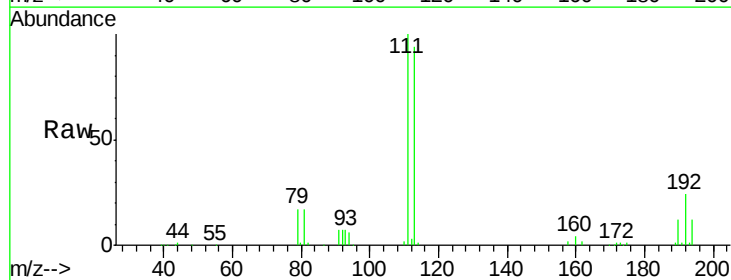


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX
 Ion 87.90 (87.60 to 88.60): VX

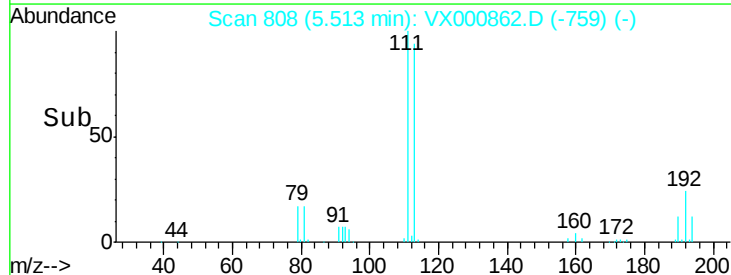
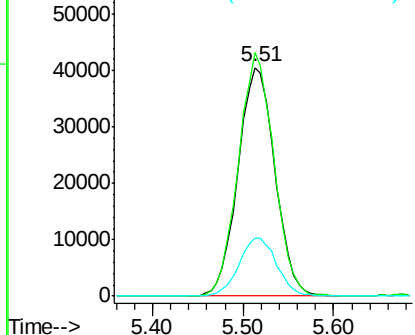


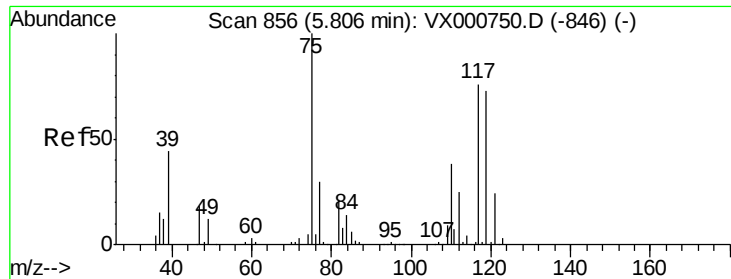
#35
 Dibromofluoromethane
 Concen: 46.46 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. 0.00 min
 Lab File: VX000862.D
 Acq: 13 Apr 2018 20:43

Tgt Ion:113 Resp: 114529
 Ion Ratio Lower Upper
 113 100
 111 102.6 81.5 122.3
 192 25.8 20.4 30.6



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

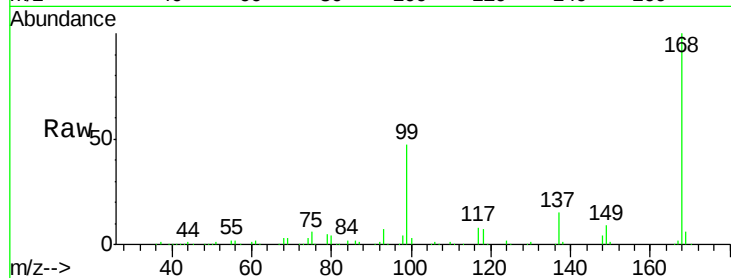




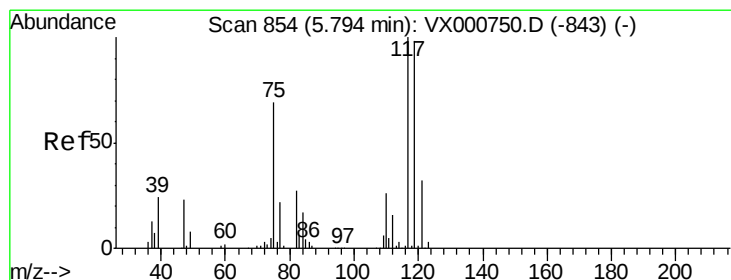
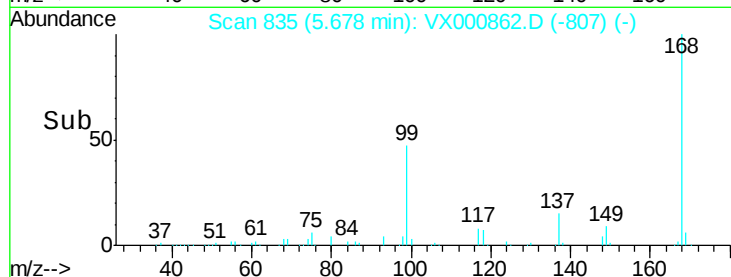
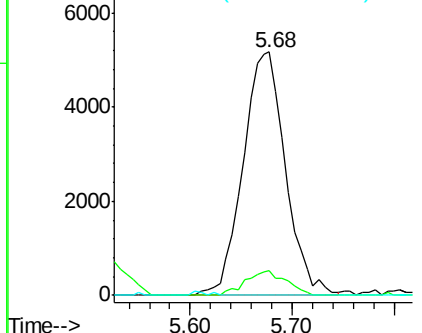
#36
 1,1-Dichloropropene
 Concen: 4.24 ug/l
 RT: 5.68 min Scan# 835
 Delta R.T. -0.13 min
 Lab File: VX000862.D
 Acq: 13 Apr 2018 20:43

Instrument :
 MSVOA_X
 ClientSampleId :
 281

Tgt Ion: 75 Resp: 14933
 Ion Ratio Lower Upper
 75 100
 110 9.7 19.2 57.6#
 77 0.0 25.4 38.2#

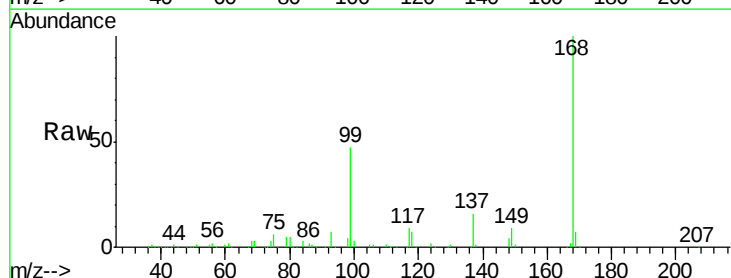


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

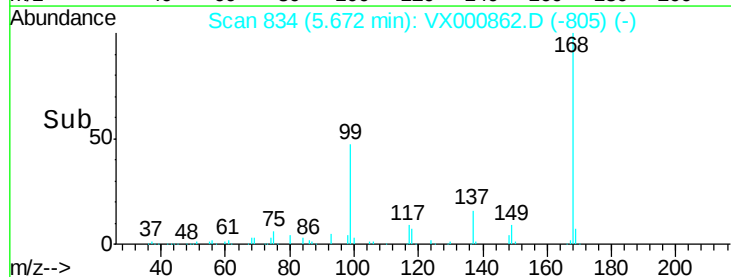
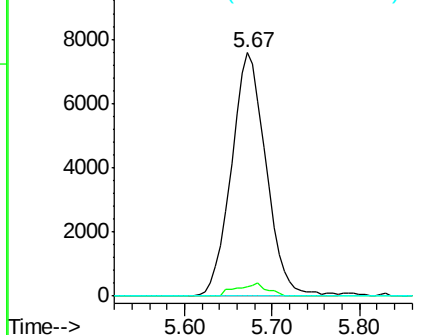


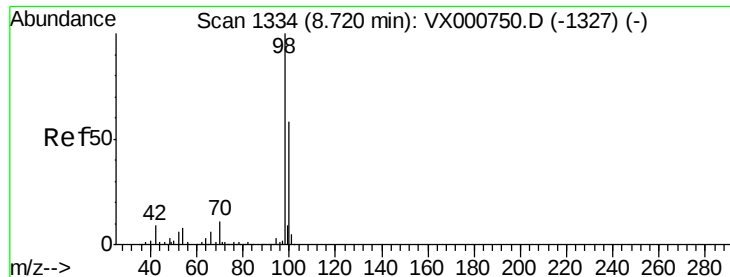
#38
 Carbon Tetrachloride
 Concen: 5.30 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX000862.D
 Acq: 13 Apr 2018 20:43

Tgt Ion: 117 Resp: 20895
 Ion Ratio Lower Upper
 117 100
 119 4.0 78.4 117.6#
 121 0.0 25.4 38.0#



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: 48.35 ug/l

RT: 8.73 min Scan# 1335

Delta R.T. 0.01 min

Lab File: VX000862.D

Acq: 13 Apr 2018 20:43

Instrument :

MSVOA_X

ClientSampled :

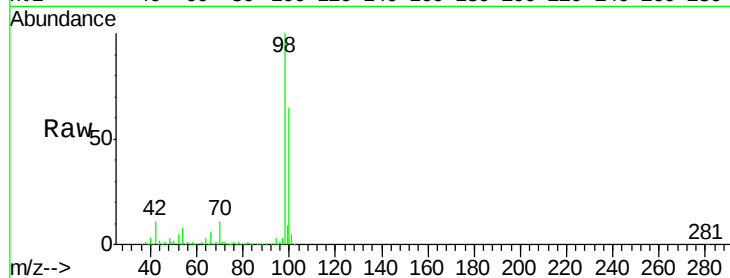
281

Tgt Ion: 98 Resp: 443843

Ion Ratio Lower Upper

98 100

100 64.7 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.73

300000

250000

200000

150000

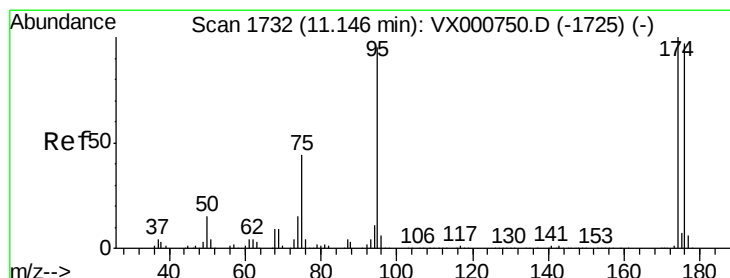
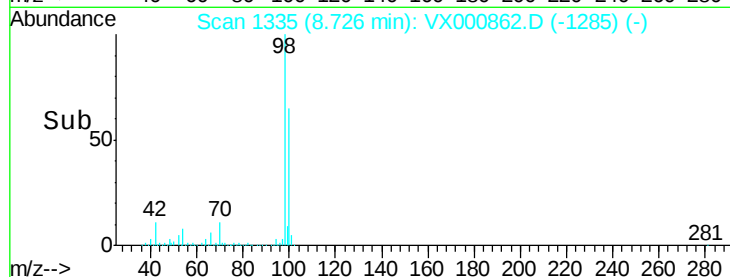
100000

50000

0

8.60 8.70 8.80 8.90

Time-->



#62

4-Bromofluorobenzene

Concen: 44.16 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VX000862.D

Acq: 13 Apr 2018 20:43

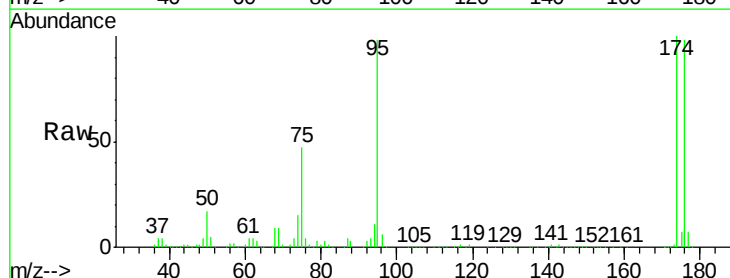
Tgt Ion: 95 Resp: 167715

Ion Ratio Lower Upper

95 100

174 96.7 0.0 198.4

176 94.1 0.0 194.4



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

150000

110000

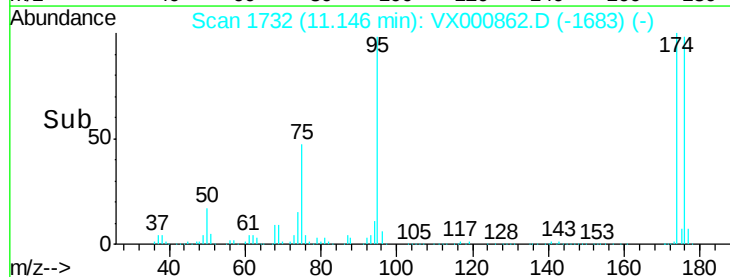
11.15

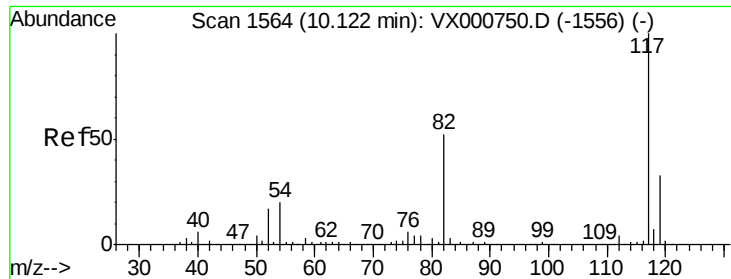
50000

0

11.10 11.20 11.30

Time-->





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VX000862.D

Acq: 13 Apr 2018 20:43

Instrument :

MSVOA_X

ClientSampled :

281

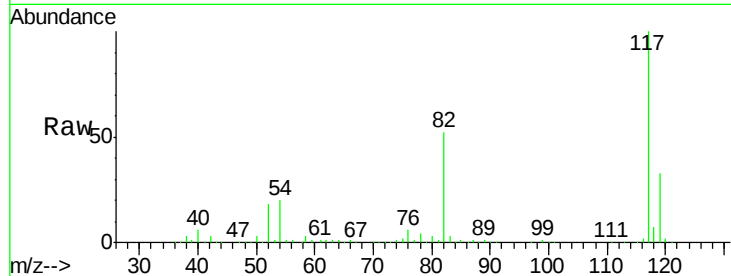
Tgt Ion:117 Resp: 290498

Ion Ratio Lower Upper

117 100

82 51.8 41.9 62.9

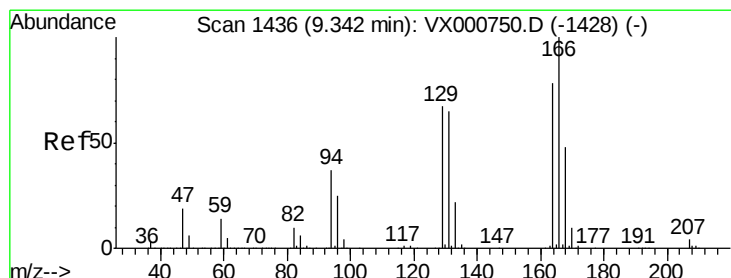
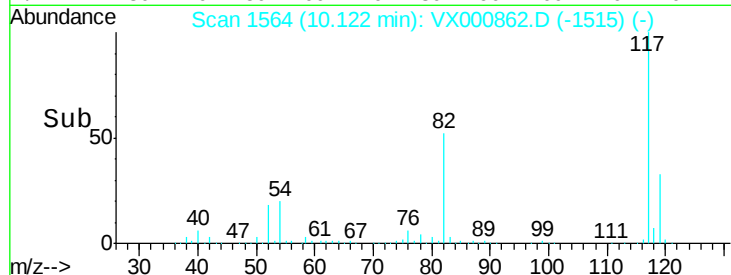
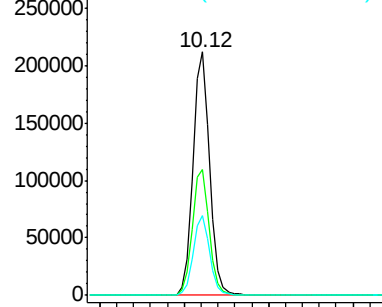
119 32.9 26.0 39.0



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: 0.79 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. 0.00 min

Lab File: VX000862.D

Acq: 13 Apr 2018 20:43

Tgt Ion:164 Resp: 2252

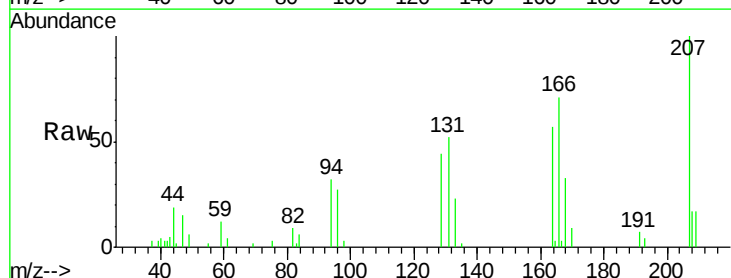
Ion Ratio Lower Upper

164 100

166 124.5 102.8 154.2

129 78.1 68.5 102.7

131 90.9 66.6 100.0

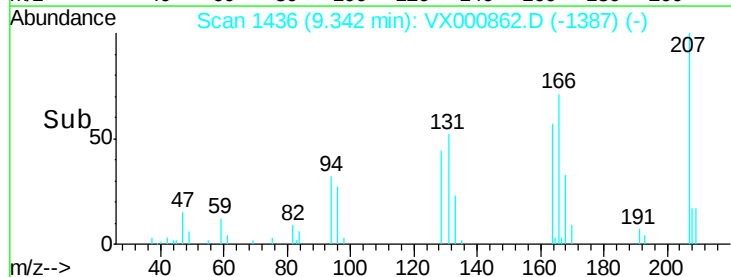
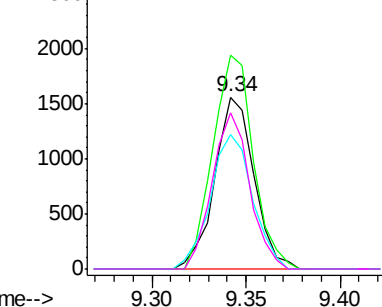


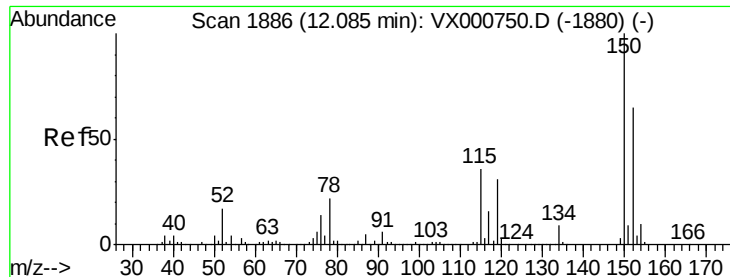
Abundance Ion 163.80 (163.50 to 164.50): V

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: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX000862.D

Acq: 13 Apr 2018 20:43

Instrument :

MSVOA_X

ClientSampled :

281

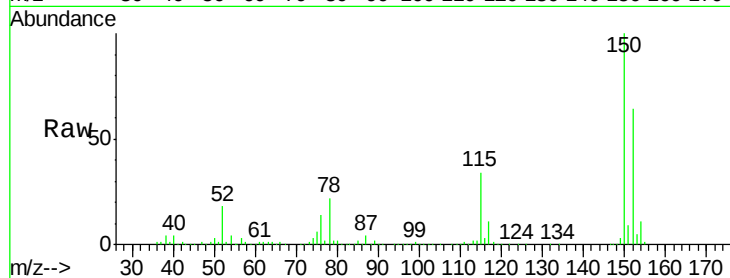
Tgt Ion:152 Resp: 179552

Ion Ratio Lower Upper

152 100

115 53.2 37.9 113.7

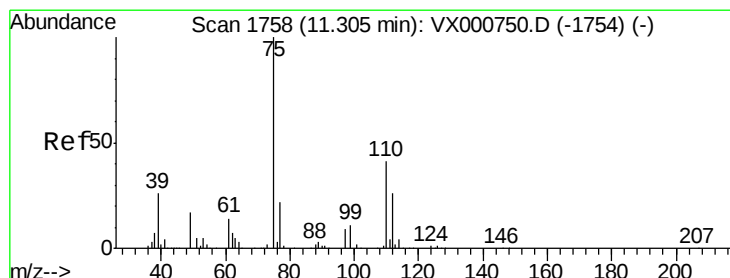
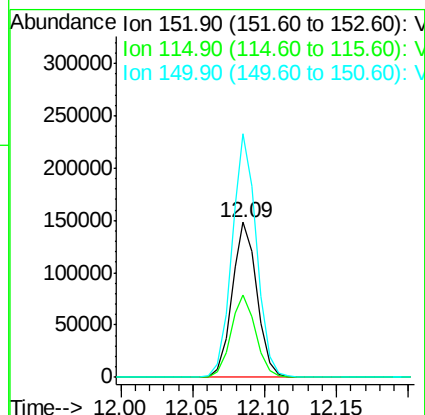
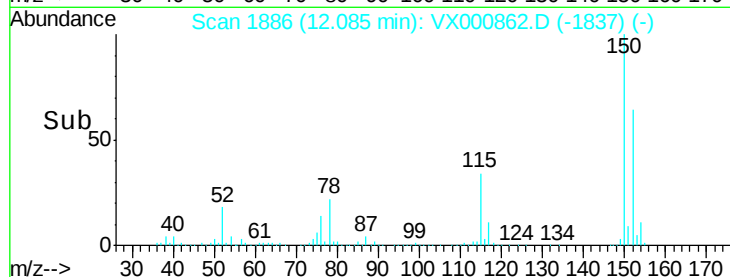
150 154.9 0.0 348.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 26.52 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

Lab File: VX000862.D

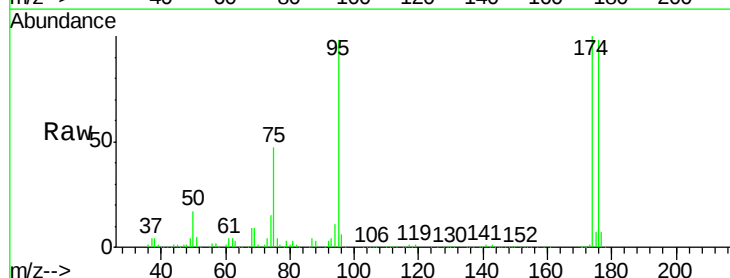
Acq: 13 Apr 2018 20:43

Tgt Ion: 75 Resp: 82106

Ion Ratio Lower Upper

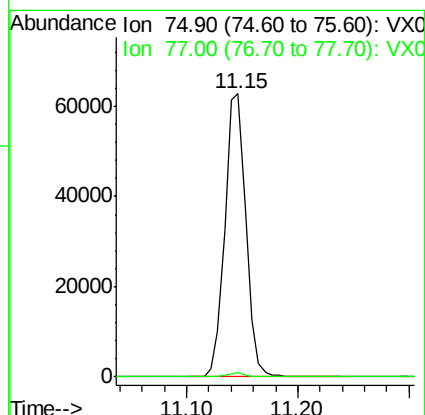
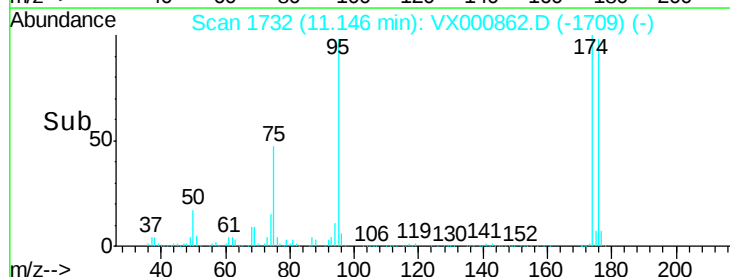
75 100

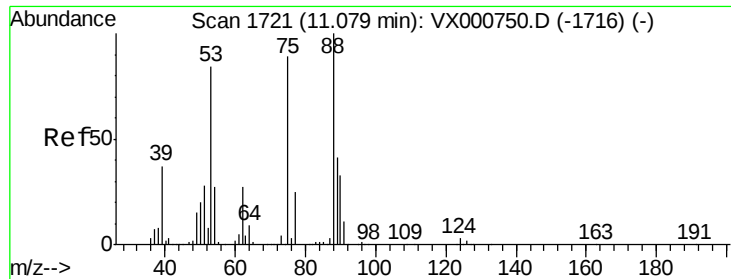
77 1.2 20.5 61.5#



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: 72.94 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.07 min

Lab File: VX000862.D

Acq: 13 Apr 2018 20:43

Instrument :

MSVOA_X

ClientSampleId :

281

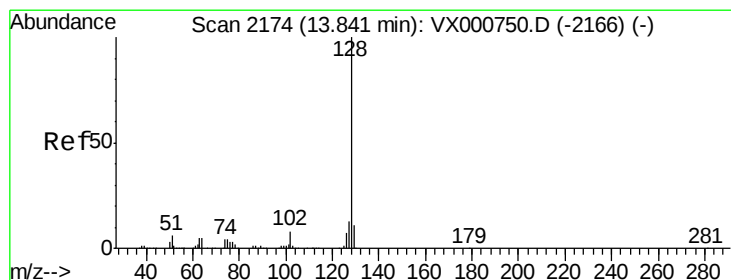
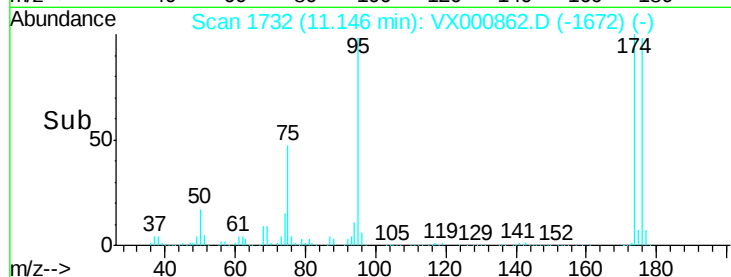
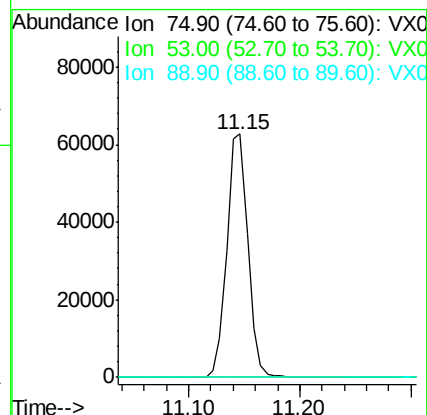
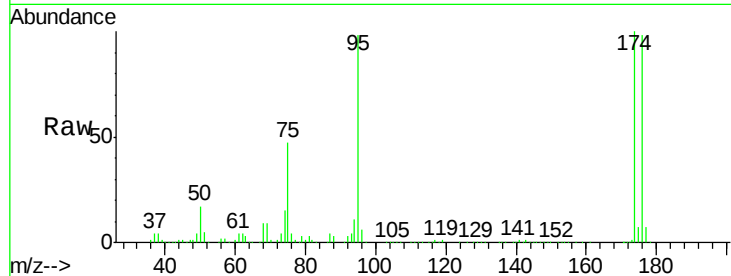
Tgt Ion: 75 Resp: 82106

Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

89 0.0 40.9 61.3#



#95

Naphthalene

Concen: 7.10 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. 0.00 min

Lab File: VX000862.D

Acq: 13 Apr 2018 20:43

Tgt Ion: 128 Resp: 92766

Ion Ratio Lower Upper

128 100

127 13.0 10.4 15.6

129 10.7 8.7 13.1

