

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062718\
 Data File : VX002962.D
 Acq On : 28 Jun 2018 03:32
 Operator : JC/MD
 Sample : J3718-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 W-1A

Quant Time: Jun 28 06:51:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	264678	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	372239	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	348124	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	199670	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	179888	49.17	ug/l	0.00
Spiked Amount			Recovery	=	98.34%	
35) Dibromofluoromethane	5.51	113	145472	49.35	ug/l	0.00
Spiked Amount			Recovery	=	98.70%	
50) Toluene-d8	8.72	98	526187	48.88	ug/l	0.00
Spiked Amount			Recovery	=	97.76%	
62) 4-Bromofluorobenzene	11.14	95	188695	45.45	ug/l	0.00
Spiked Amount			Recovery	=	90.90%	

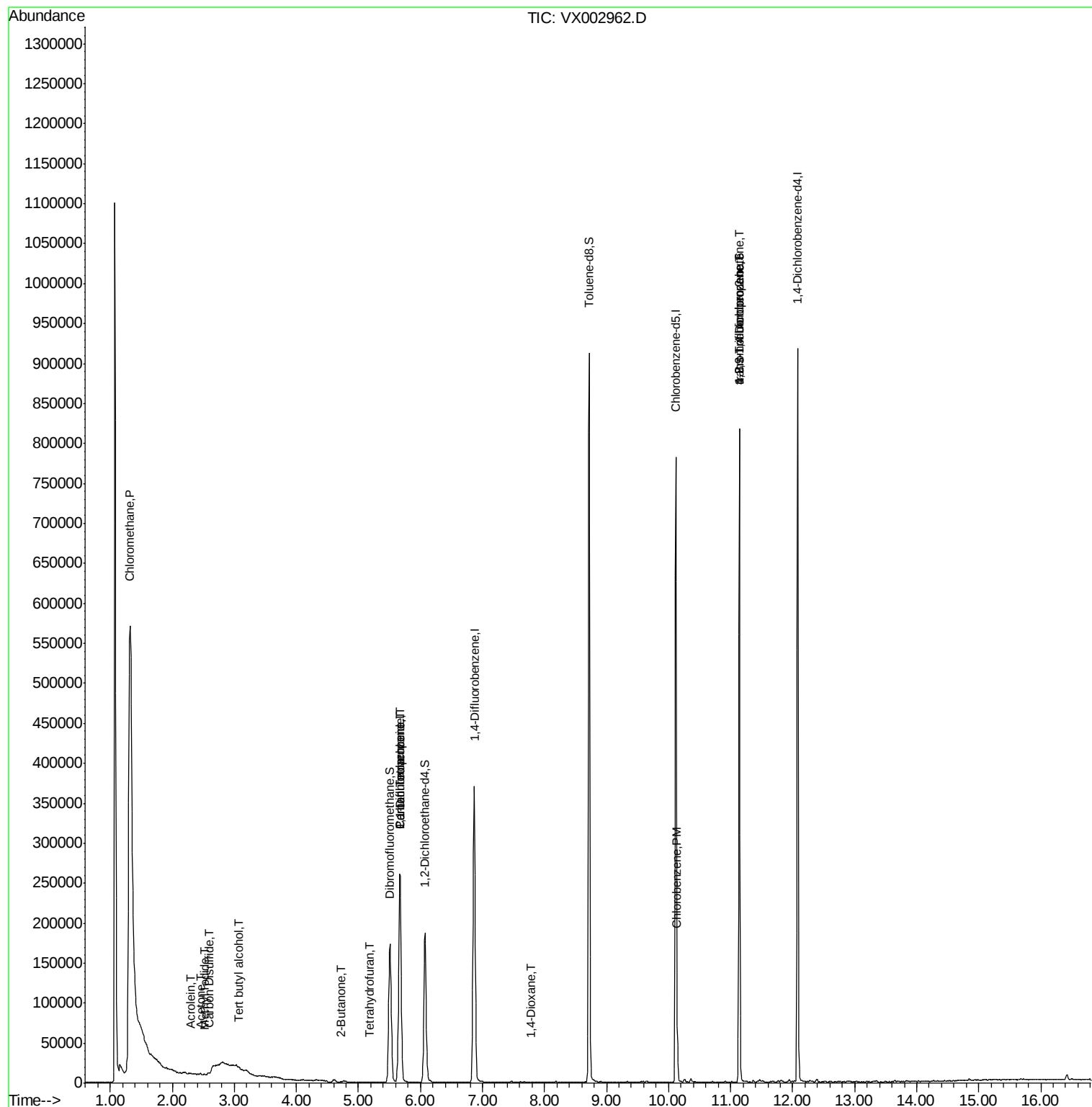
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	20	Below Cal	#	43
3) Chloromethane	1.32	50	42529	16.53	ug/l #	47
5) Bromomethane	1.67	94	1368	Below Cal	#	76
10) Methyl Iodide	2.52	142	925	6.50	ug/l #	93
11) Tert butyl alcohol	3.07	59	1626	2.23	ug/l #	77
13) Acrolein	2.29	56	341	5.06	ug/l #	70
16) Acetone	2.45	43	2209	1.46	ug/l	97
17) Carbon Disulfide	2.58	76	6383	0.92	ug/l	98
25) 2-Butanone	4.71	43	677	0.30	ug/l #	52
29) Tetrahydrofuran	5.18	42	294	0.20	ug/l #	70
36) 1,1-Dichloropropene	5.67	75	17943	4.40	ug/l #	49
38) Carbon Tetrachloride	5.67	117	24100	5.38	ug/l #	15
49) 1,4-Dioxane	7.78	88	22	0.30	ug/l #	1
65) Chlorobenzene	10.14	112	19539	2.21	ug/l	96
76) 1,2,3-Trichloropropane	11.14	75	98008	27.10	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	98008	76.70	ug/l #	7

(#) = 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: VX002962.D

Acq: 28 Jun 2018 03:32

Instrument :

MSVOA_X

ClientSampleId :

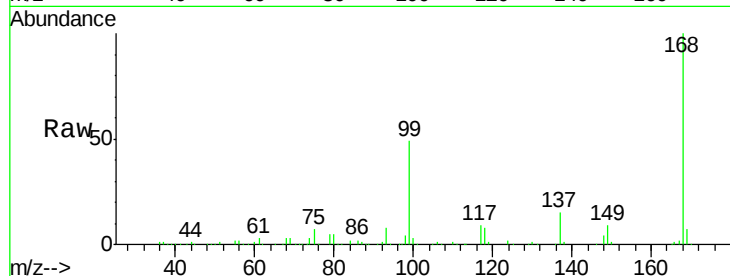
W-1A

Tot Ion:168 Resp: 264678

Ion Ratio Lower Upper

168 100

99 49.1 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

60000

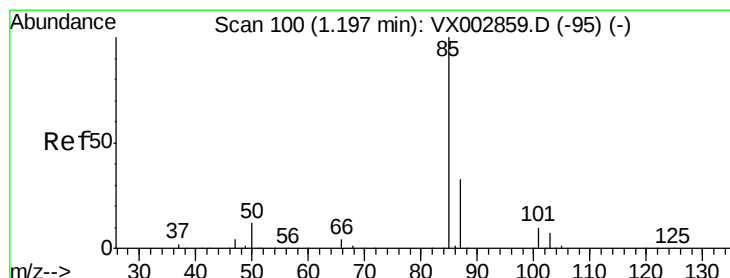
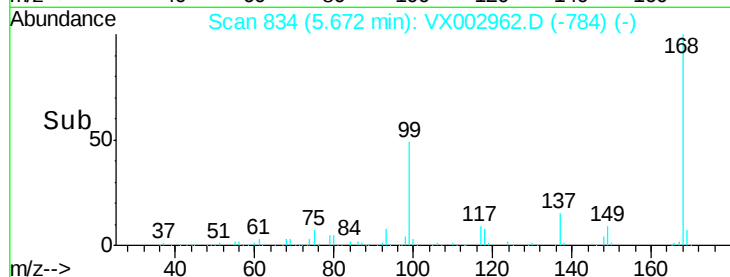
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX002962.D

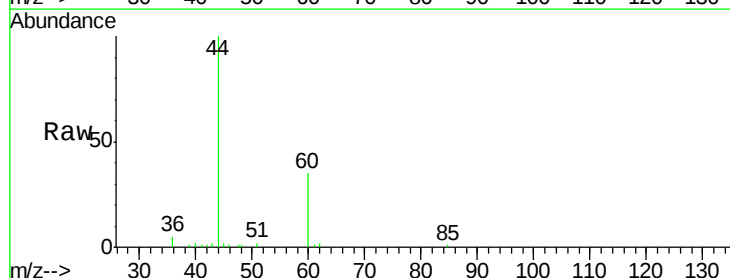
Acq: 28 Jun 2018 03:32

Tgt Ion: 85 Resp: 20

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

80

60

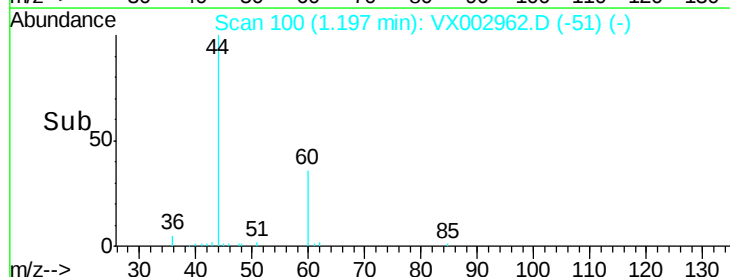
40

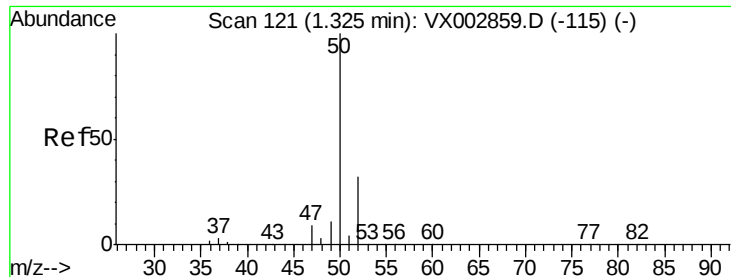
20

0

Time-->

1.18 1.19 1.20





#3

Chloromethane

Concen: 16.53 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002962.D

Acq: 28 Jun 2018 03:32

Instrument :

MSVOA_X

ClientSampleId :

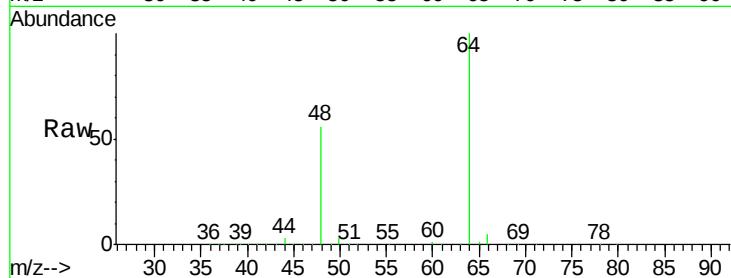
W-1A

Tot Ion: 50 Resp: 42529

Ion Ratio Lower Upper

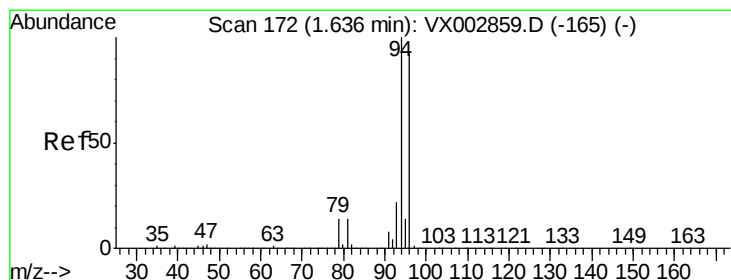
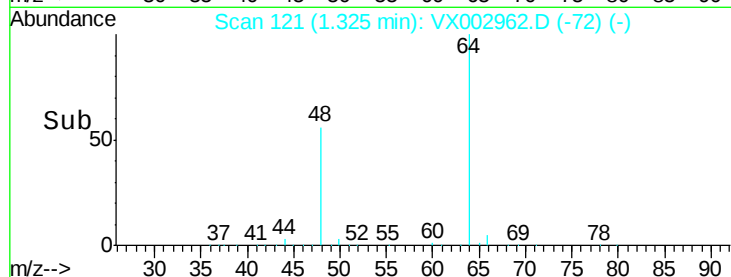
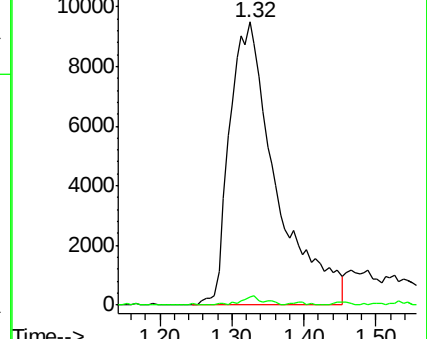
50 100

52 2.3 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: 1.67 min Scan# 177

Delta R.T. 0.03 min

Lab File: VX002962.D

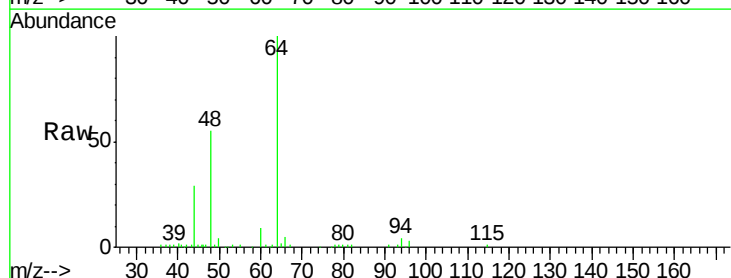
Acq: 28 Jun 2018 03:32

Tgt Ion: 94 Resp: 1368

Ion Ratio Lower Upper

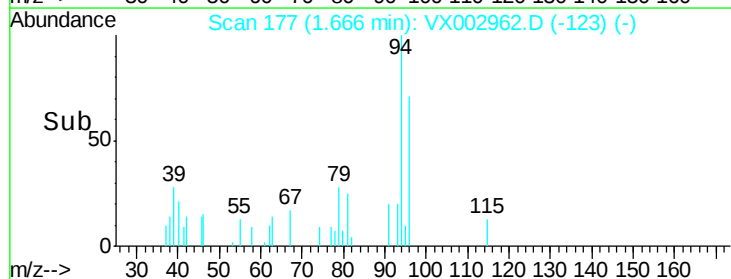
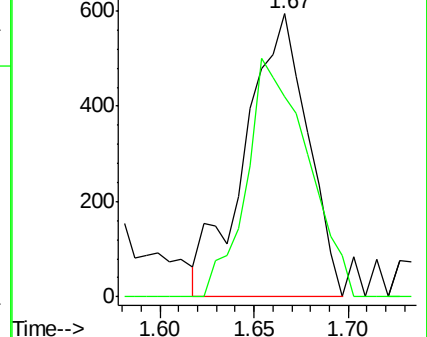
94 100

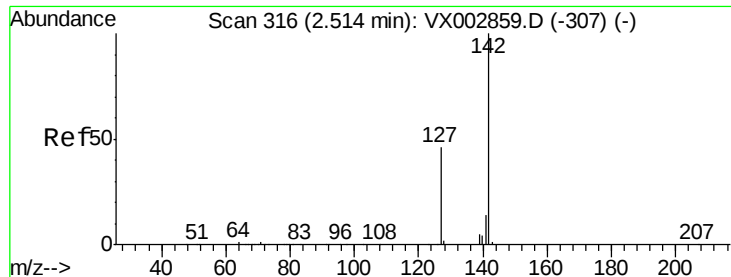
96 70.5 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

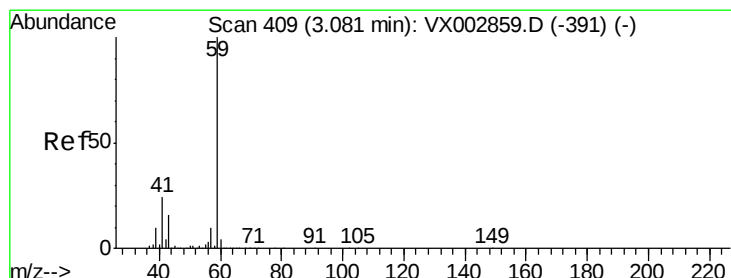
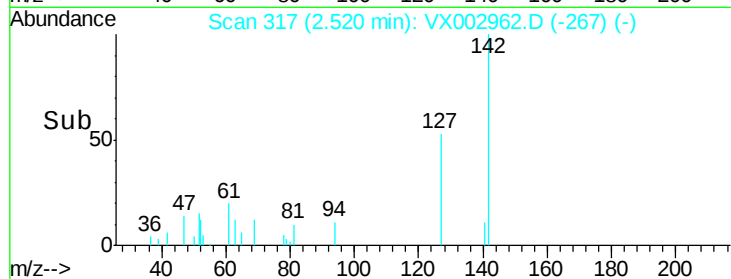
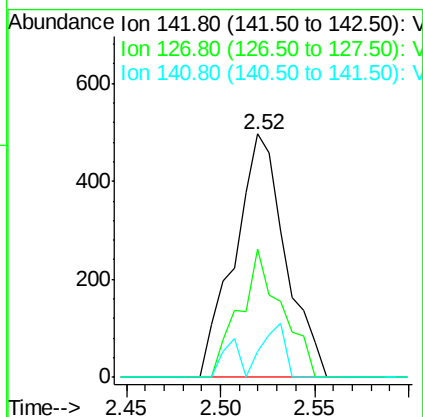
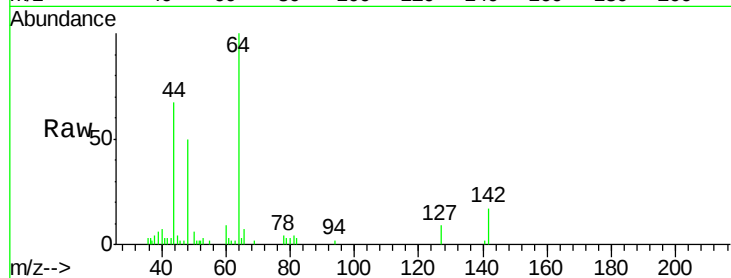




#10
Methyl Iodide
Concen: 6.50 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002962.D
Acq: 28 Jun 2018 03:32

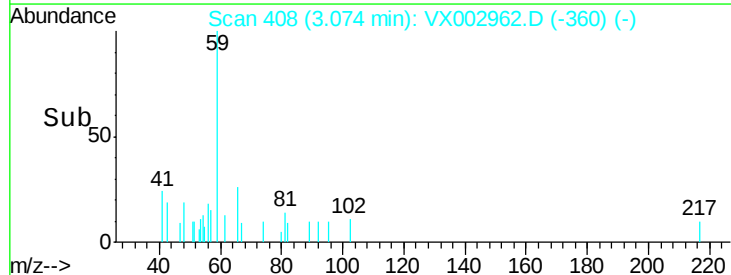
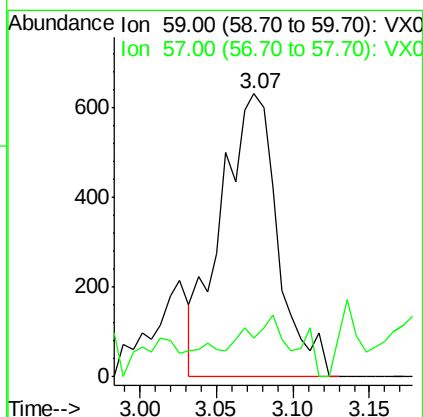
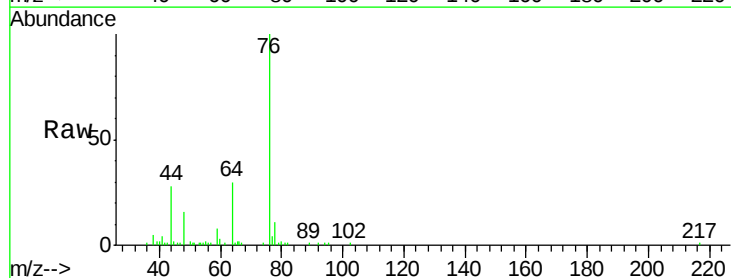
Instrument :
MSVOA_X
ClientSampled :
W-1A

Tot Ion:142 Resp: 925
Ion Ratio Lower Upper
142 100
127 43.9 36.6 55.0
141 5.3 11.3 16.9#



#11
Tert butyl alcohol
Concen: 2.23 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX002962.D
Acq: 28 Jun 2018 03:32

Tgt Ion: 59 Resp: 1626
Ion Ratio Lower Upper
59 100
57 18.9 8.2 12.2#





#13

Acrolein

Concen: 5.06 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX002962.D

Acq: 28 Jun 2018 03:32

Instrument :

MSVOA_X

ClientSampleId :

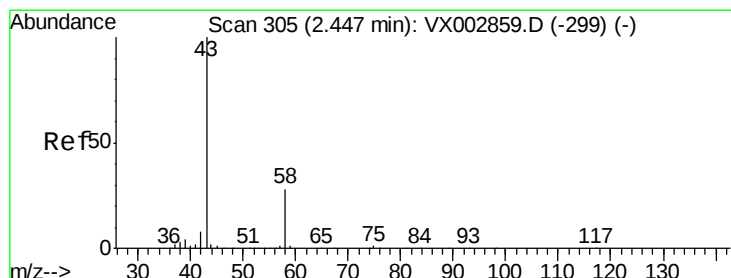
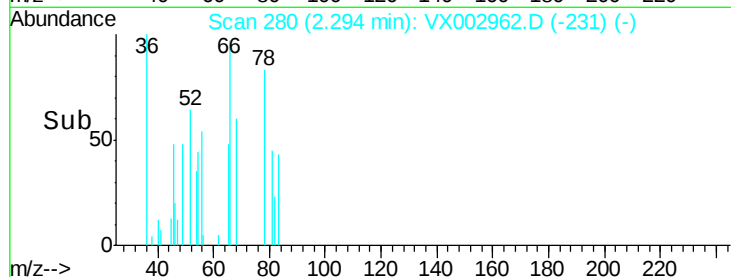
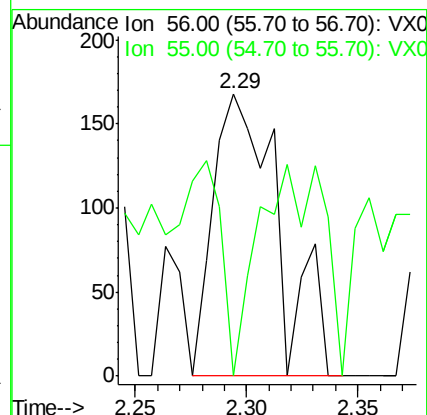
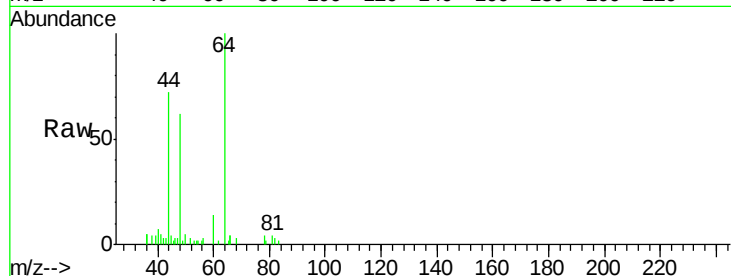
W-1A

Tot Ion: 56 Resp: 341

Ion Ratio Lower Upper

56 100

55 46.6 57.0 85.4#



#16

Acetone

Concen: 1.46 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX002962.D

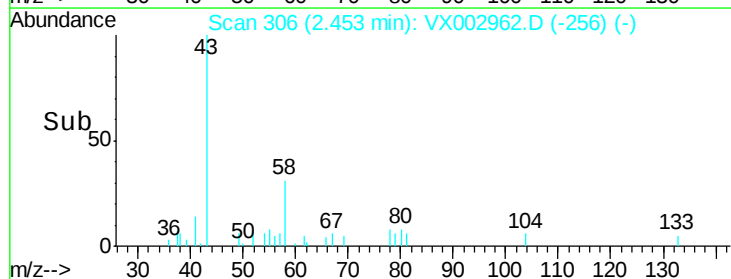
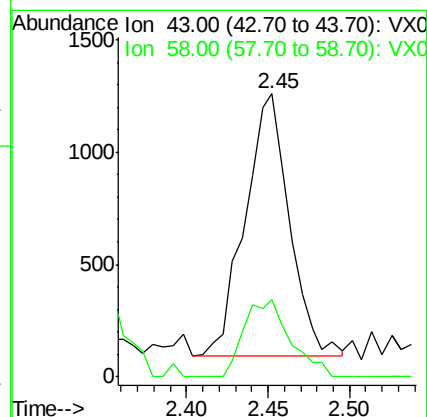
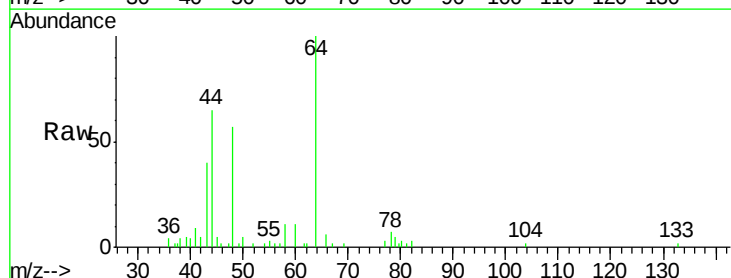
Acq: 28 Jun 2018 03:32

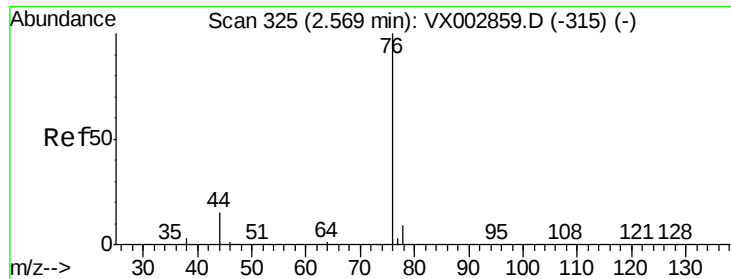
Tgt Ion: 43 Resp: 2209

Ion Ratio Lower Upper

43 100

58 29.4 22.1 33.1

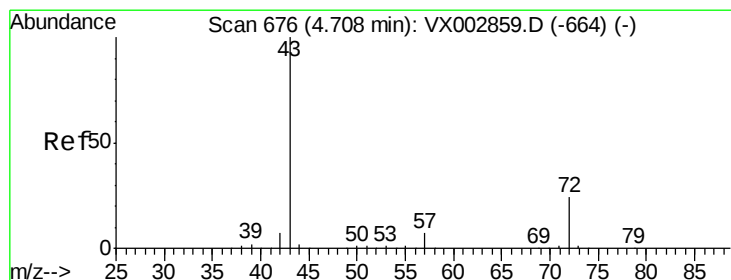
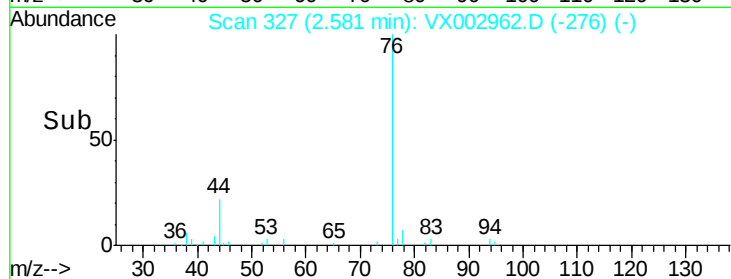
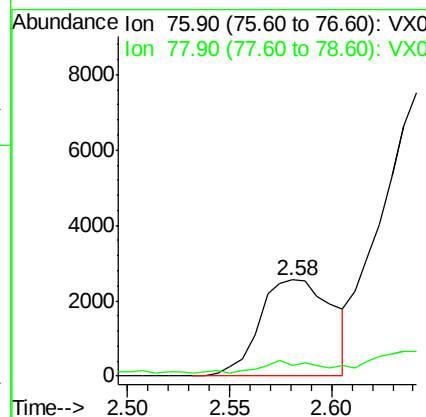
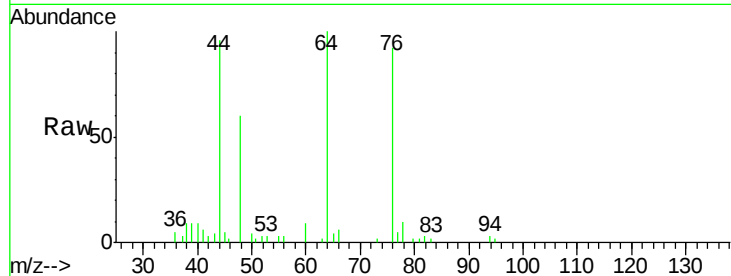




#17
Carbon Disulfide
Concen: 0.92 ug/l
RT: 2.58 min Scan# 327
Delta R.T. 0.01 min
Lab File: VX002962.D
Acq: 28 Jun 2018 03:32

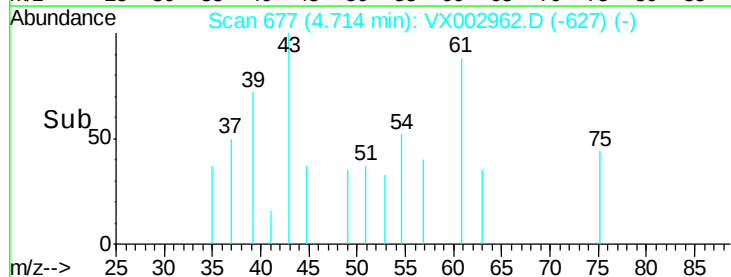
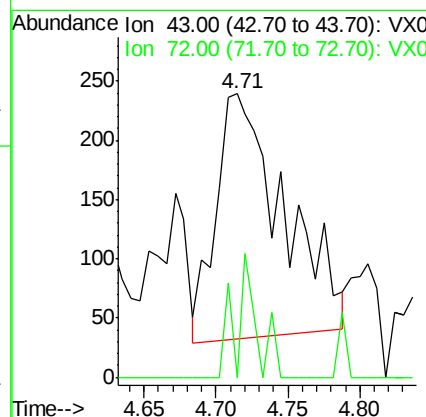
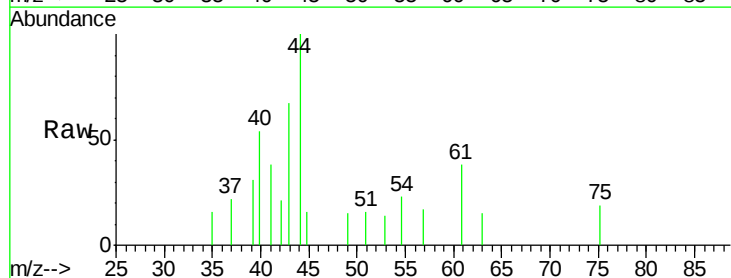
Instrument :
MSVOA_X
ClientSampled :
W-1A

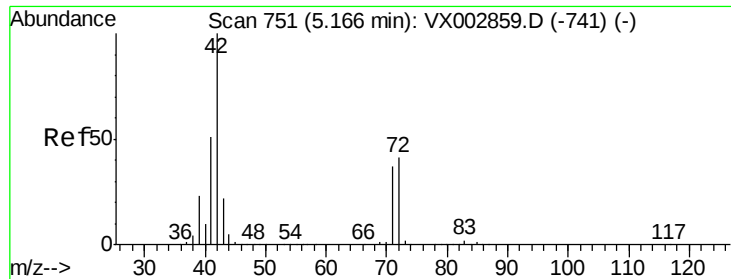
Tot Ion: 76 Resp: 6383
Ion Ratio Lower Upper
76 100
78 7.7 6.9 10.3



#25
2-Butanone
Concen: 0.30 ug/l
RT: 4.71 min Scan# 677
Delta R.T. 0.01 min
Lab File: VX002962.D
Acq: 28 Jun 2018 03:32

Tgt Ion: 43 Resp: 677
Ion Ratio Lower Upper
43 100
72 0.0 18.5 27.7#





#29

Tetrahydrofuran

Concen: 0.20 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX002962.D

Acq: 28 Jun 2018 03:32

Instrument :

MSVOA_X

ClientSampled :

W-1A

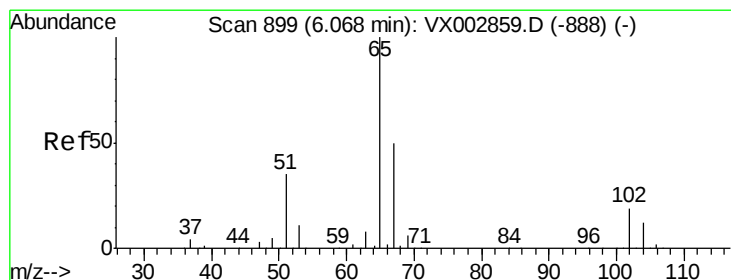
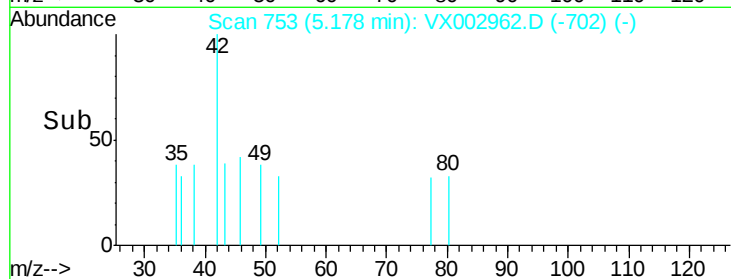
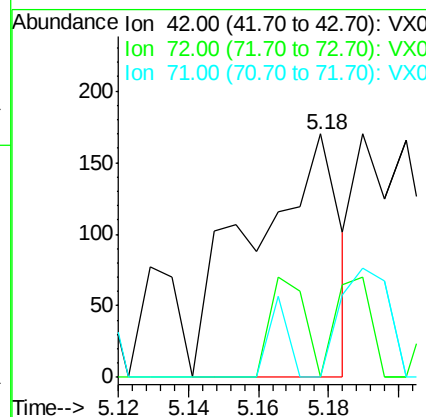
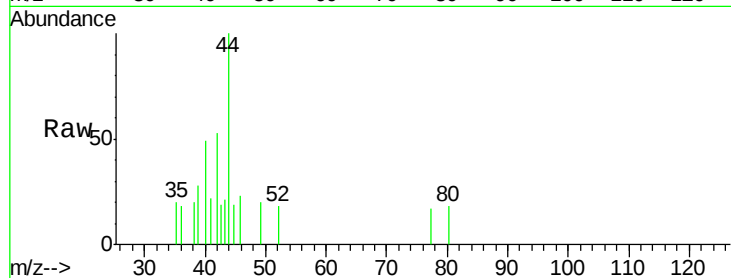
Tot Ion: 42 Resp: 294

Ion Ratio Lower Upper

42 100

72 16.7 32.0 48.0#

71 25.2 30.1 45.1#



#33

1,2-Dichloroethane-d4

Concen: 49.17 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX002962.D

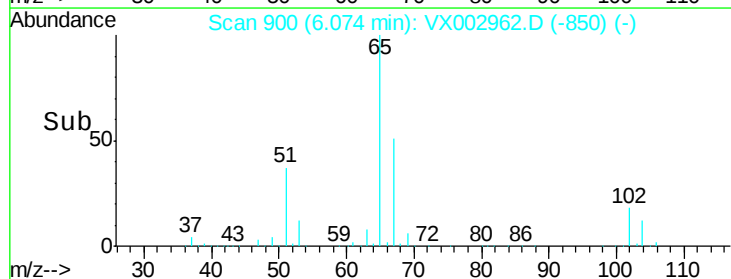
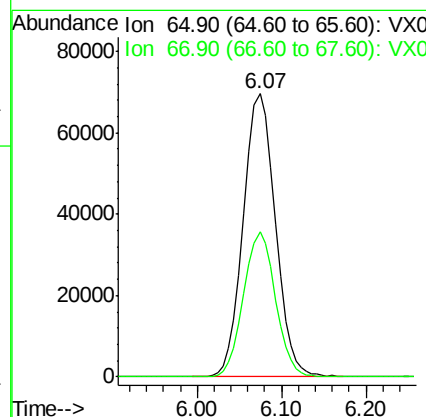
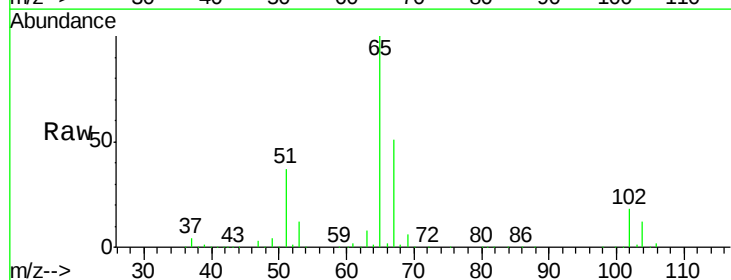
Acq: 28 Jun 2018 03:32

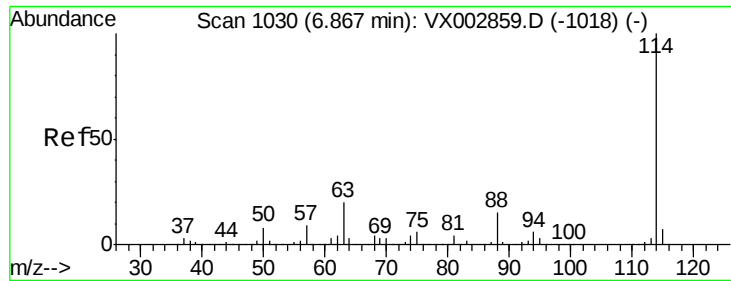
Tgt Ion: 65 Resp: 179888

Ion Ratio Lower Upper

65 100

67 50.9 0.0 102.6

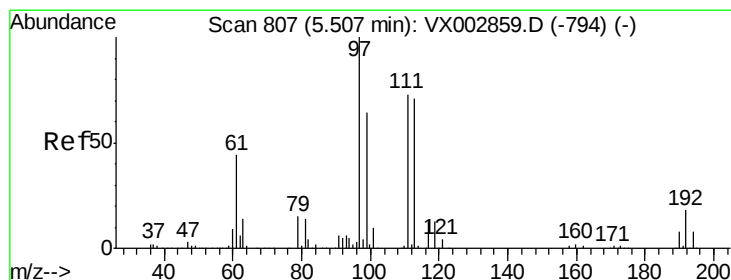
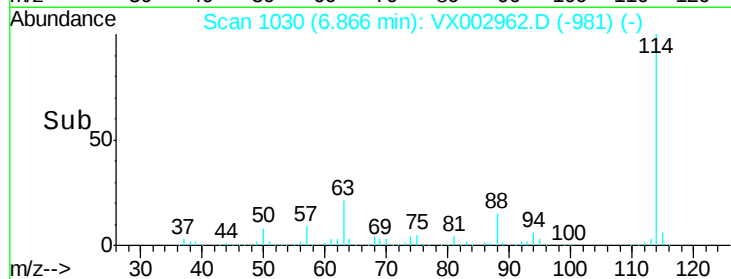
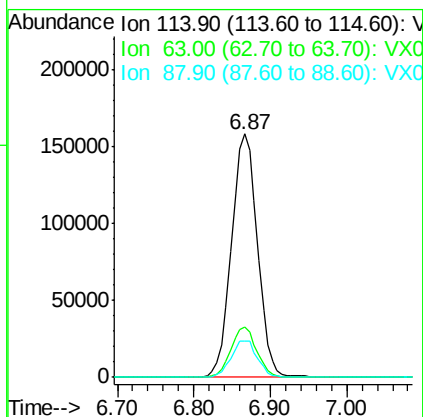
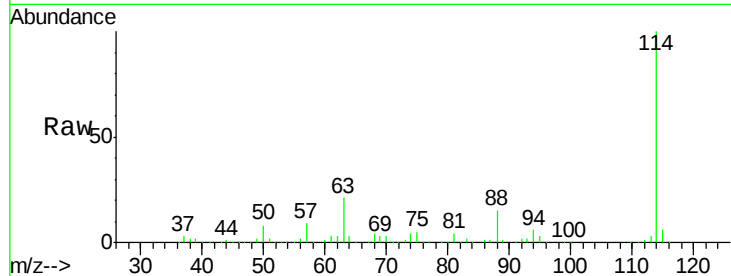




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002962.D
 Acq: 28 Jun 2018 03:32

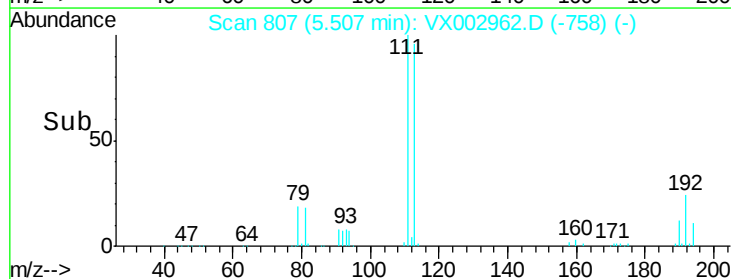
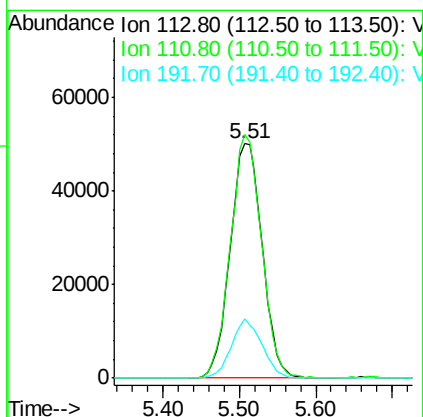
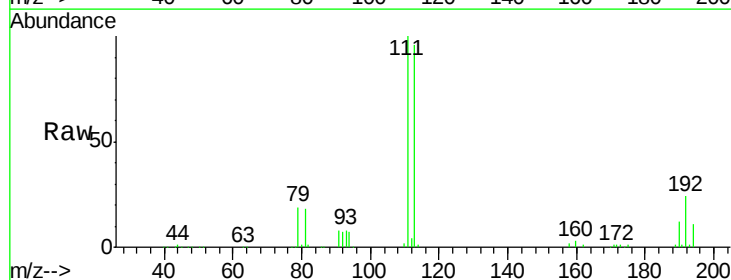
Instrument :
 MSVOA_X
 ClientSampleId :
 W-1A

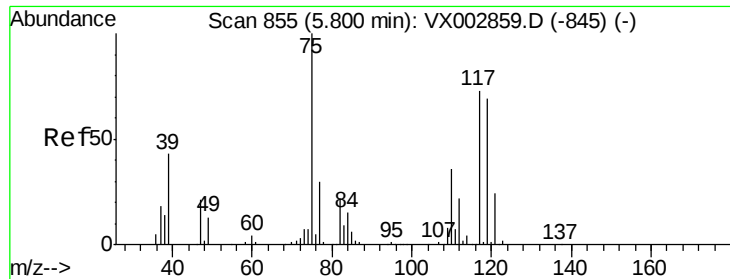
Tot Ion:114 Resp: 372239
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 41.4
 88 15.0 0.0 30.0



#35
 Dibromofluoromethane
 Concen: 49.35 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VX002962.D
 Acq: 28 Jun 2018 03:32

Tgt Ion:113 Resp: 145472
 Ion Ratio Lower Upper
 113 100
 111 101.0 81.4 122.0
 192 24.0 19.1 28.7

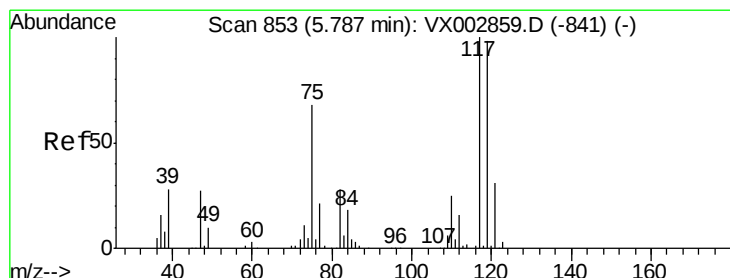
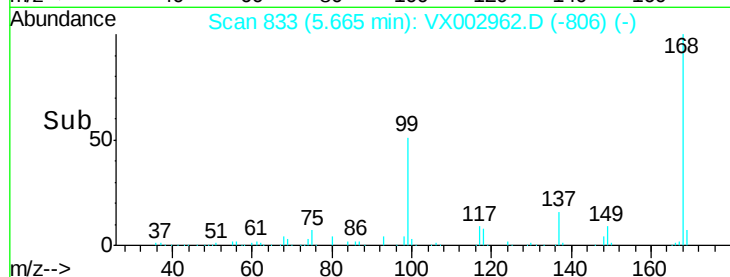
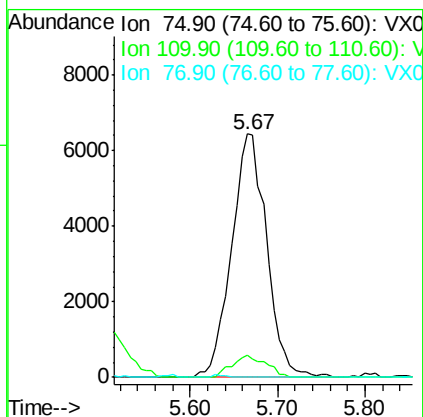
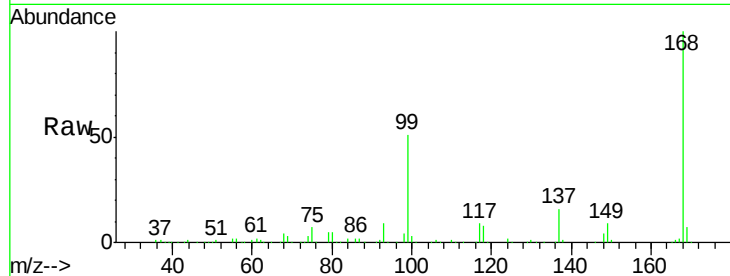




#36
 1,1-Dichloropropene
 Concen: 4.40 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002962.D
 Acq: 28 Jun 2018 03:32

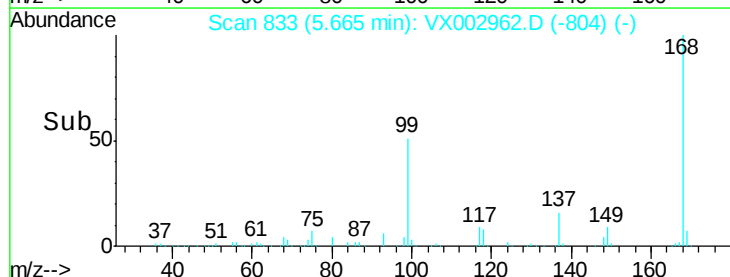
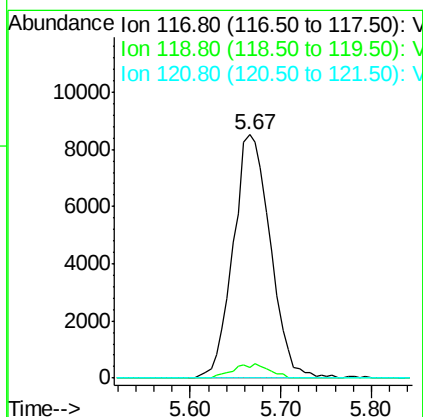
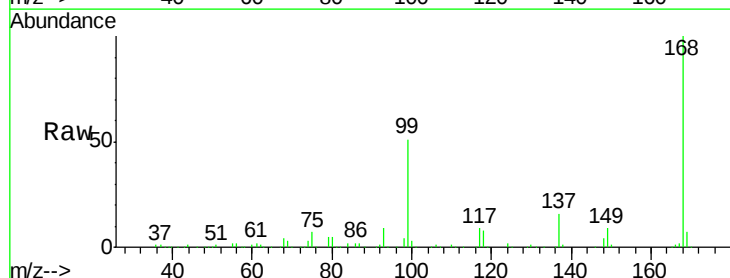
Instrument :
 MSVOA_X
 ClientSampleId :
 W-1A

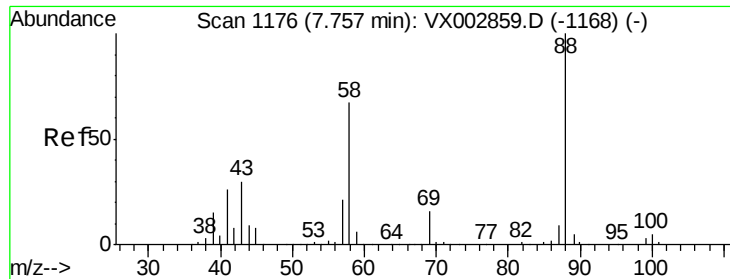
Tot Ion: 75 Resp: 17943
 Ion Ratio Lower Upper
 75 100
 110 8.7 18.1 54.4#
 77 0.0 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 5.38 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002962.D
 Acq: 28 Jun 2018 03:32

Tgt Ion:117 Resp: 24100
 Ion Ratio Lower Upper
 117 100
 119 4.4 77.4 116.0#
 121 0.0 24.4 36.6#





#49

1,4-Dioxane

Concen: 0.30 ug/l

RT: 7.78 min Scan# 1180

Delta R.T. 0.02 min

Lab File: VX002962.D

Acq: 28 Jun 2018 03:32

Instrument :

MSVOA_X

ClientSampled :

W-1A

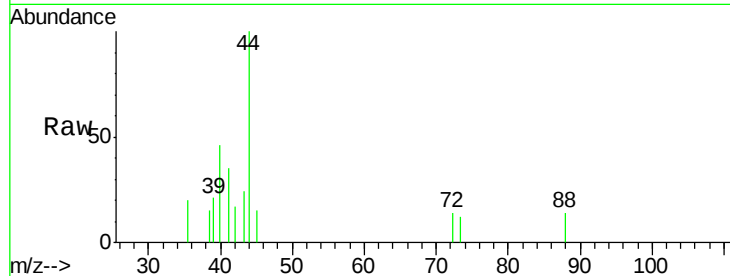
Tot Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 772.7 29.8 44.6#

58 0.0 57.1 85.7#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

150

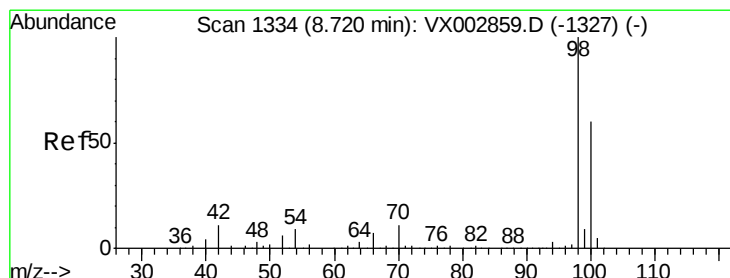
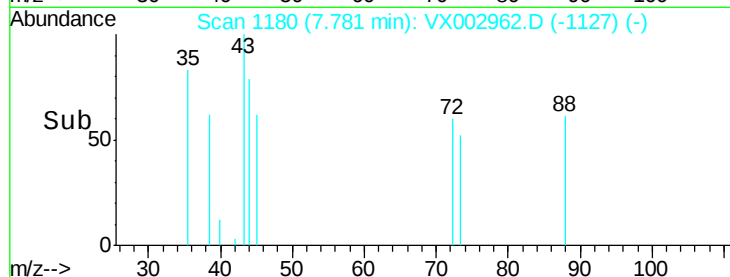
100

50

0

7.76 7.77 7.78 7.79 7.80

Time-->



#50

Toluene-d8

Concen: 48.88 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002962.D

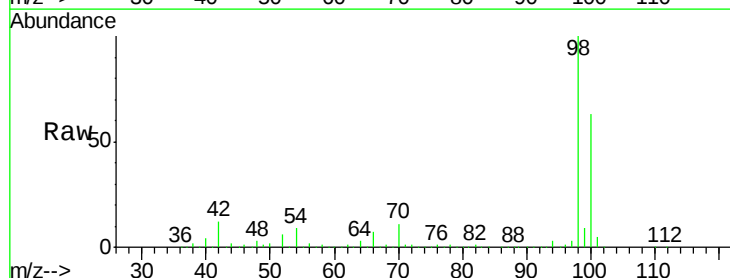
Acq: 28 Jun 2018 03:32

Tgt Ion: 98 Resp: 526187

Ion Ratio Lower Upper

98 100

100 63.7 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

400000

300000

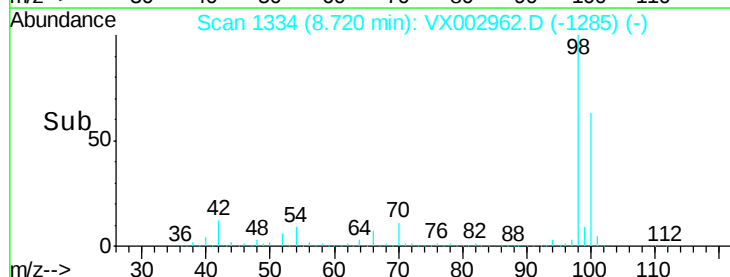
200000

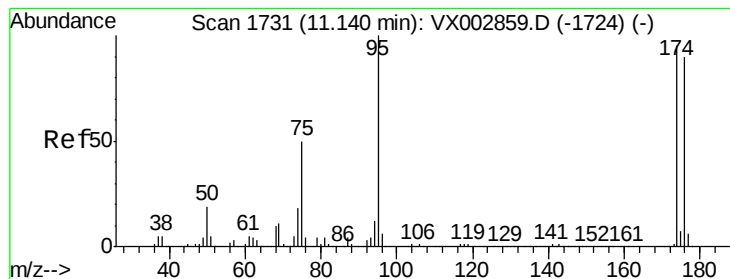
100000

0

8.60 8.70 8.80 8.90

Time-->





#62

4-Bromofluorobenzene

Concen: 45.45 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002962.D

Acq: 28 Jun 2018 03:32

Instrument :

MSVOA_X

ClientSampleId :

W-1A

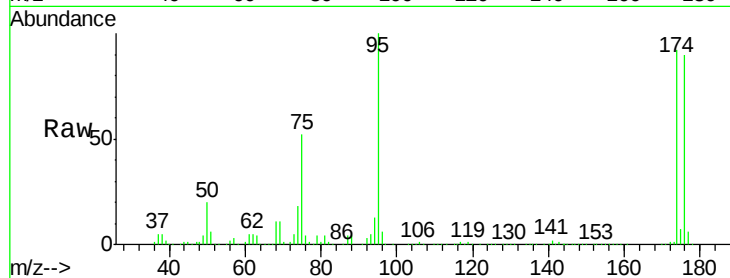
Tot Ion: 95 Resp: 188695

Ion Ratio Lower Upper

95 100

174 96.5 0.0 187.4

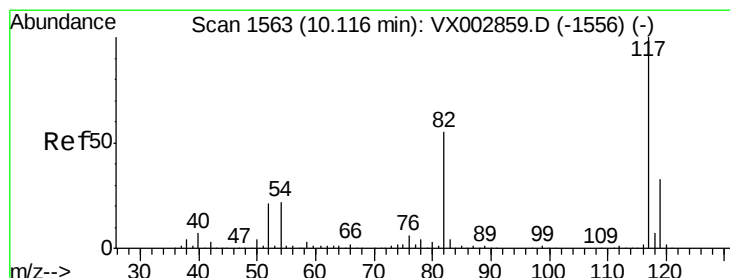
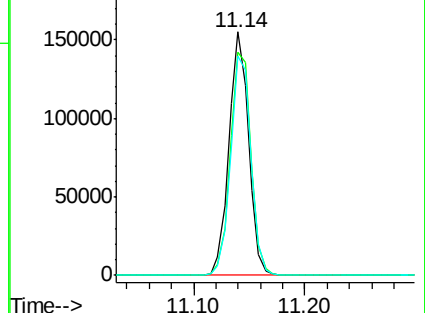
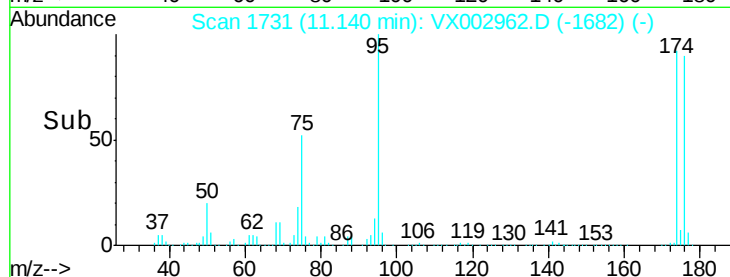
176 93.3 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX002962.D (-1682) (-)

Ion 173.80 (173.50 to 174.50): VX002962.D (-1682) (-)

Ion 175.80 (175.50 to 176.50): VX002962.D (-1682) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002962.D

Acq: 28 Jun 2018 03:32

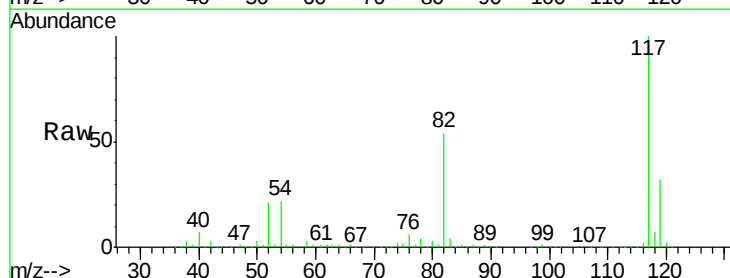
Tgt Ion: 117 Resp: 348124

Ion Ratio Lower Upper

117 100

82 53.7 45.0 67.4

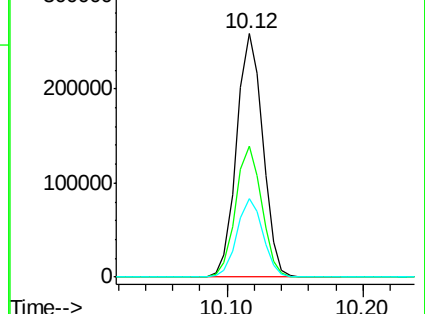
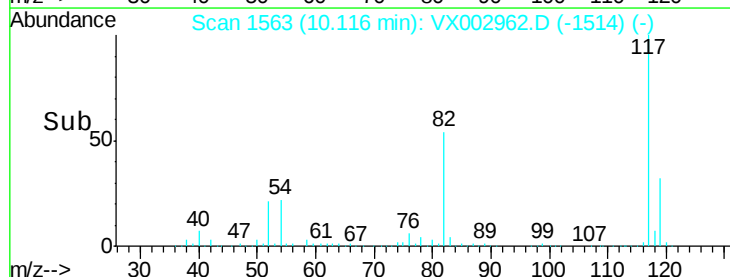
119 32.1 25.8 38.6

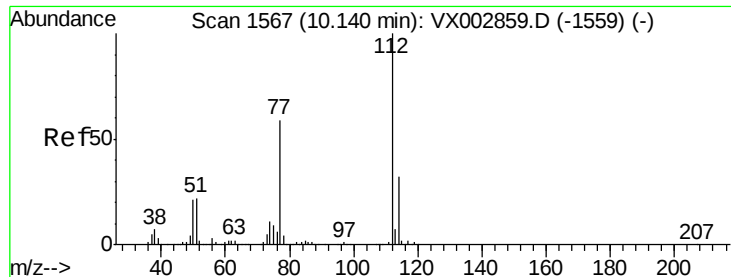


Abundance Ion 116.90 (116.60 to 117.60): VX002962.D (-1514) (-)

Ion 82.00 (81.70 to 82.70): VX002962.D (-1514) (-)

Ion 118.90 (118.60 to 119.60): VX002962.D (-1514) (-)





#65

Chlorobenzene

Concen: 2.21 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. -0.00 min

Lab File: VX002962.D

Acq: 28 Jun 2018 03:32

Instrument :

MSVOA_X

ClientSampleId :

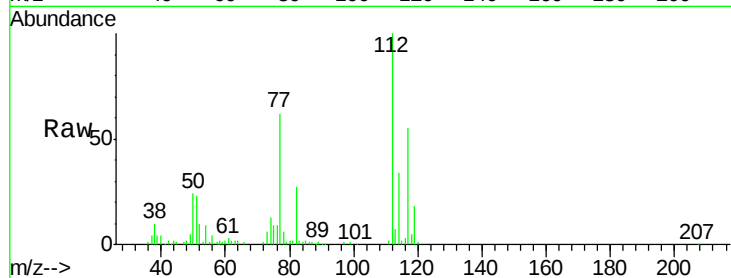
W-1A

Tot Ion:112 Resp: 19539

Ion Ratio Lower Upper

112 100

114 33.6 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

10.14

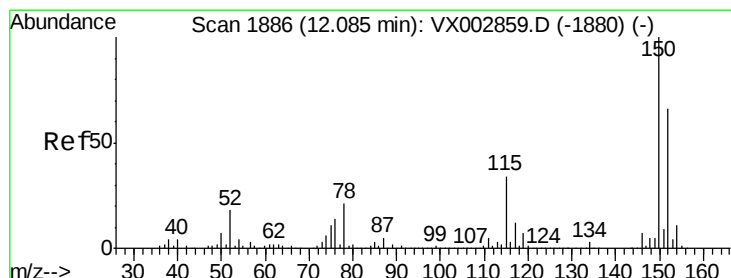
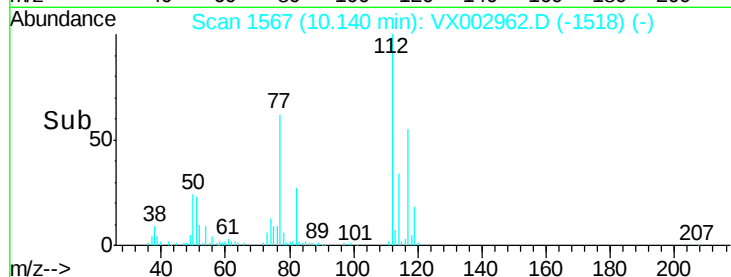
15000

10000

5000

0

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002962.D

Acq: 28 Jun 2018 03:32

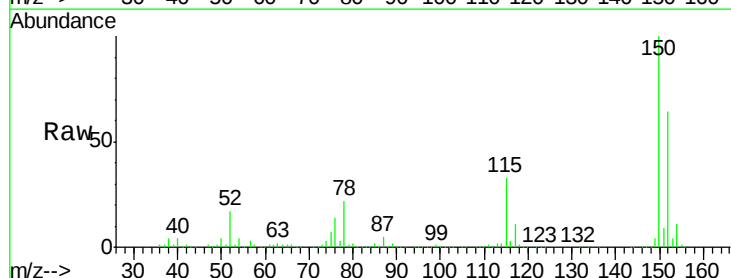
Tgt Ion:152 Resp: 199670

Ion Ratio Lower Upper

152 100

115 53.6 40.1 120.2

150 156.8 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

300000

250000

200000

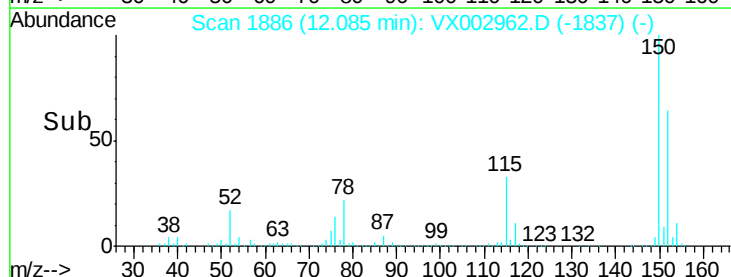
150000

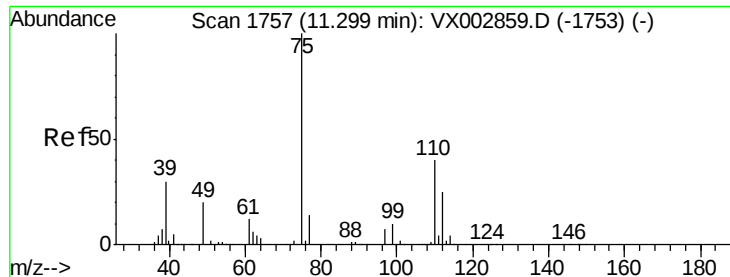
100000

50000

0

Time-->





#76

1,2,3-Trichloropropane

Concen: 27.10 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002962.D

Acq: 28 Jun 2018 03:32

Instrument :

MSVOA_X

ClientSampleId :

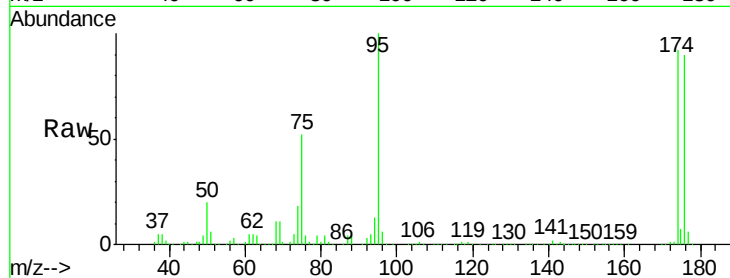
W-1A

Tot Ion: 75 Resp: 98008

Ion Ratio Lower Upper

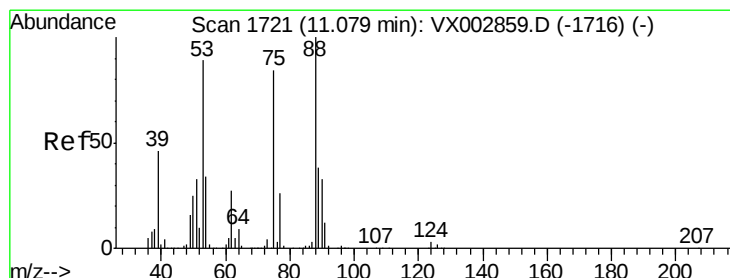
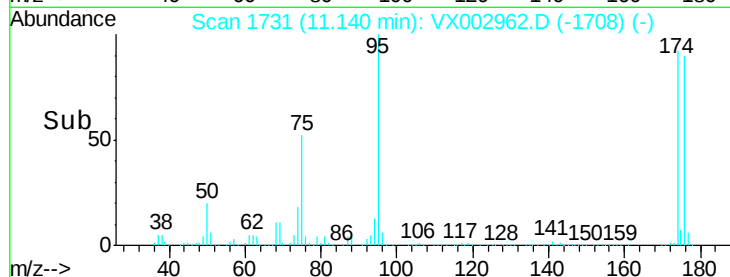
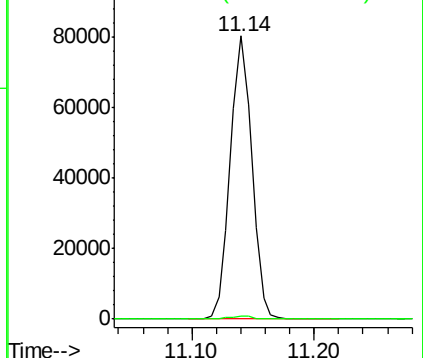
75 100

77 1.2 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 76.70 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002962.D

Acq: 28 Jun 2018 03:32

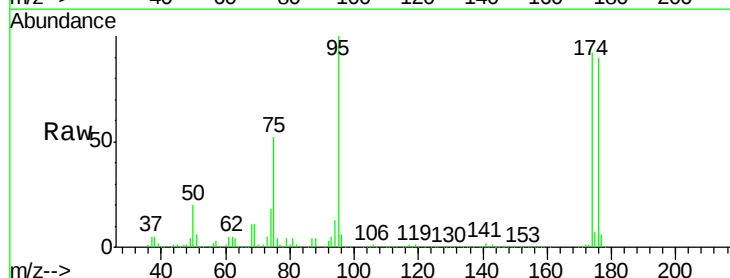
Tgt Ion: 75 Resp: 98008

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

