

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062518\
 Data File : VX002876.D
 Acq On : 25 Jun 2018 23:01
 Operator : JC/MD
 Sample : J3693-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 27 05:28:04 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	237977	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	337947	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	312917	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	177652	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	163083	49.58	ug/l	0.00
Spiked Amount			Recovery	=	99.16%	
35) Dibromofluoromethane	5.51	113	131044	48.97	ug/l	0.00
Spiked Amount			Recovery	=	97.94%	
50) Toluene-d8	8.72	98	472088	48.31	ug/l	0.00
Spiked Amount			Recovery	=	96.62%	
62) 4-Bromofluorobenzene	11.14	95	168043	44.59	ug/l	0.00
Spiked Amount			Recovery	=	89.18%	

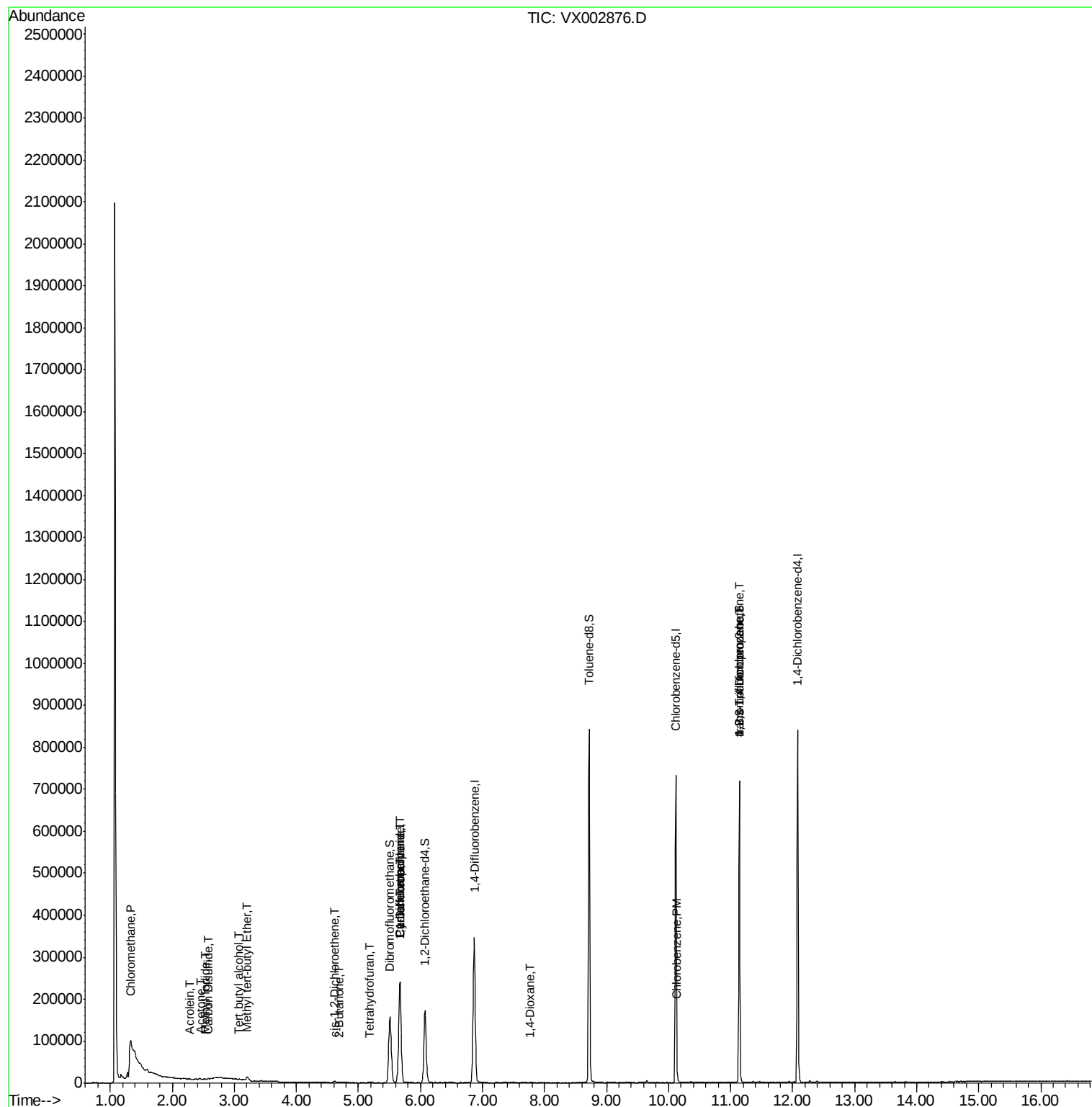
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	125	Below Cal	#	43
3) Chloromethane	1.32	50	3522	0.41	ug/l #	60
5) Bromomethane	1.65	94	1797	Below Cal		97
10) Methyl Iodide	2.53	142	1714	6.79	ug/l #	89
11) Tert butyl alcohol	3.07	59	2476	3.78	ug/l #	92
13) Acrolein	2.28	56	131	4.58	ug/l #	14
16) Acetone	2.45	43	3184	2.34	ug/l	95
17) Carbon Disulfide	2.58	76	3701	0.59	ug/l	97
19) Methyl tert-butyl Ether	3.21	73	9290	1.10	ug/l #	90
25) 2-Butanone	4.70	43	675	0.33	ug/l	100
27) cis-1,2-Dichloroethene	4.60	96	688	0.24	ug/l #	1
29) Tetrahydrofuran	5.18	42	1074	0.83	ug/l #	74
31) Cyclohexane	5.67	56	4886	1.18	ug/l #	5
36) 1,1-Dichloropropene	5.66	75	16449	4.44	ug/l #	50
38) Carbon Tetrachloride	5.67	117	22434	5.52	ug/l #	17
49) 1,4-Dioxane	7.76	88	337	5.02	ug/l #	74
65) Chlorobenzene	10.14	112	3031	0.38	ug/l	99
76) 1,2,3-Trichloropropane	11.14	75	87870	27.31	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	87870	77.26	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: VX002876.D

Acq: 25 Jun 2018 23:01

Instrument :

MSVOA_X

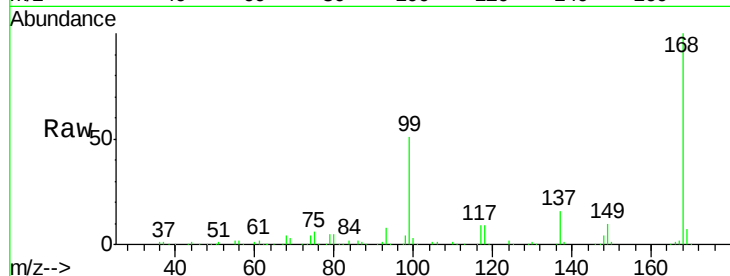
ClientSampleId :

Tot Ion:168 Resp: 237977

Ion Ratio Lower Upper

168 100

99 50.5 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

80000

60000

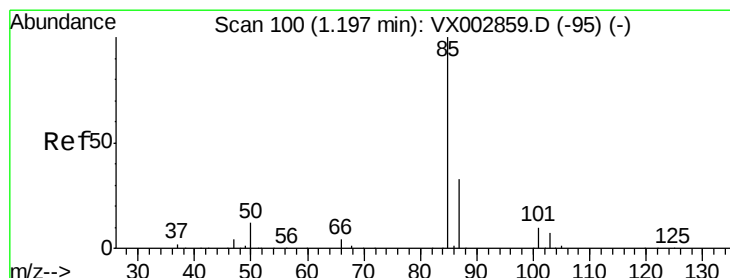
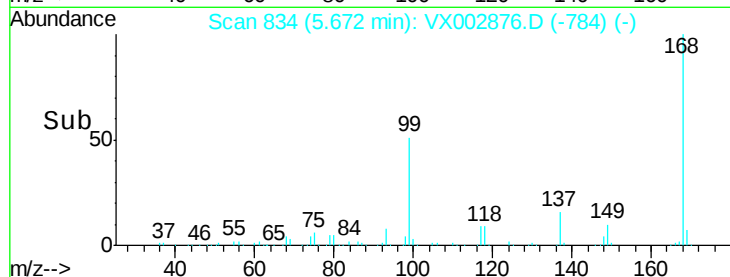
40000

20000

0

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: VX002876.D

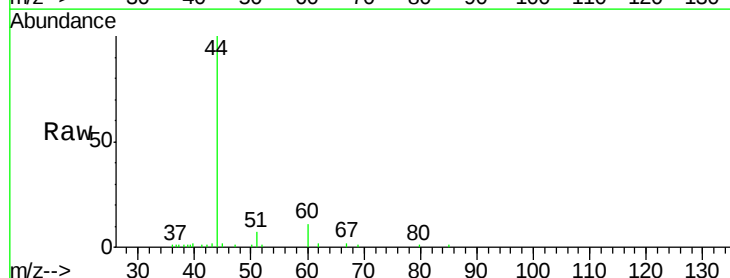
Acq: 25 Jun 2018 23:01

Tgt Ion: 85 Resp: 125

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

1.20

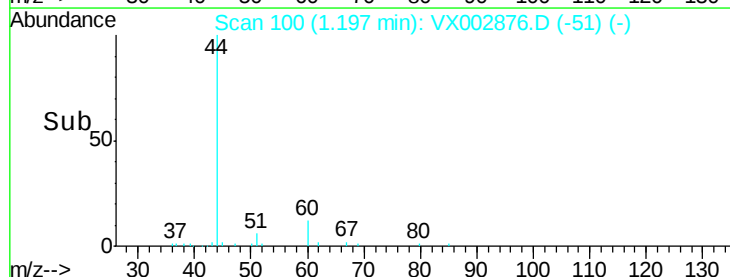
100

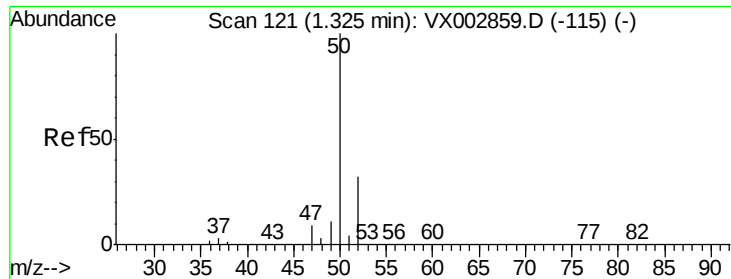
50

0

1.16 1.18 1.20 1.22

Time-->





#3

Chloromethane

Concen: 0.41 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002876.D

Acq: 25 Jun 2018 23:01

Instrument :

MSVOA_X

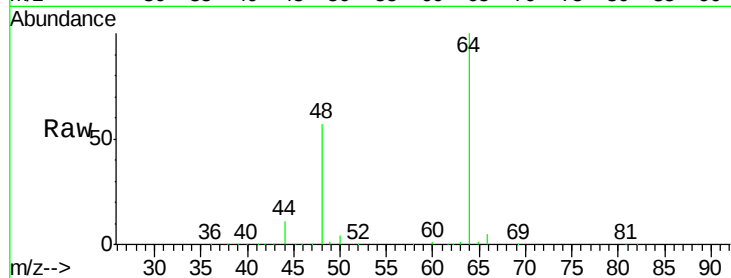
ClientSampleId :

Tot Ion: 50 Resp: 3522

Ion Ratio Lower Upper

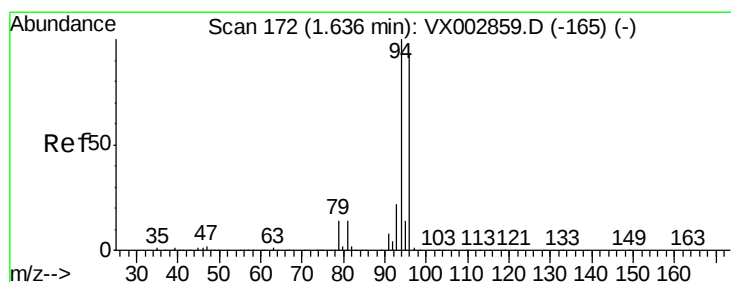
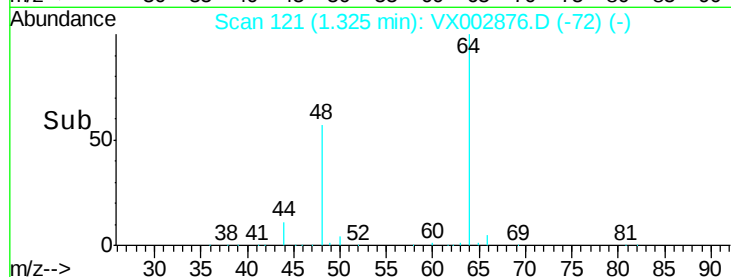
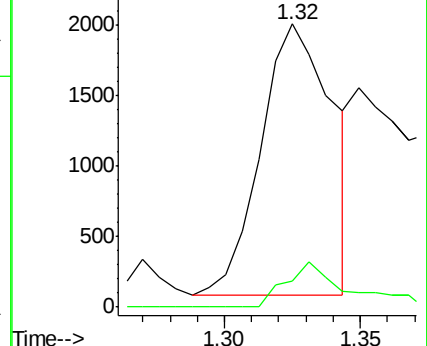
50 100

52 9.8 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002876.D

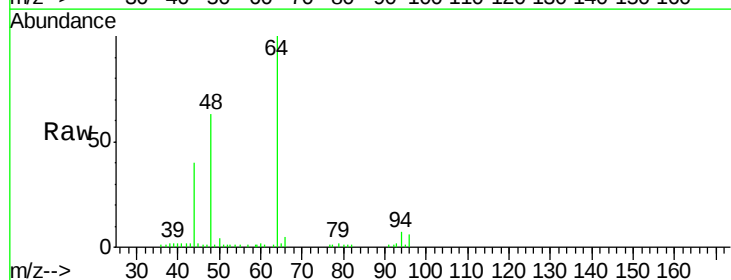
Acq: 25 Jun 2018 23:01

Tgt Ion: 94 Resp: 1797

Ion Ratio Lower Upper

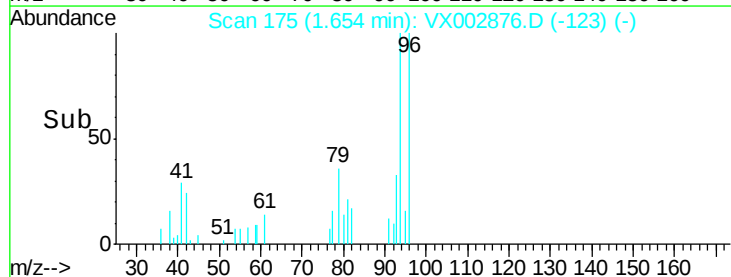
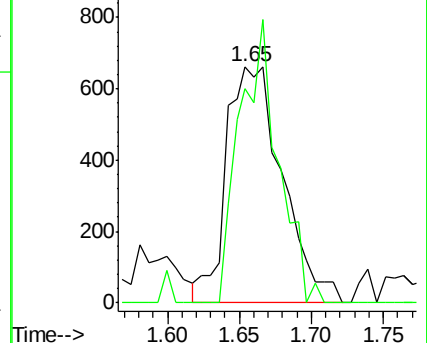
94 100

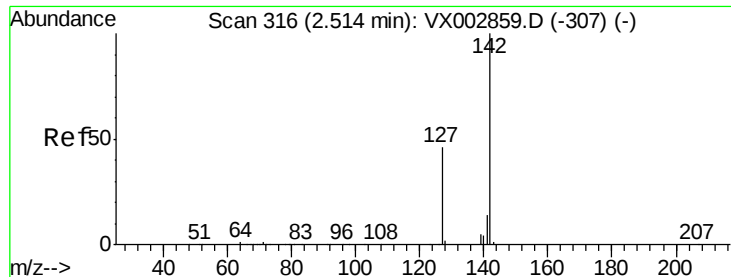
96 90.3 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

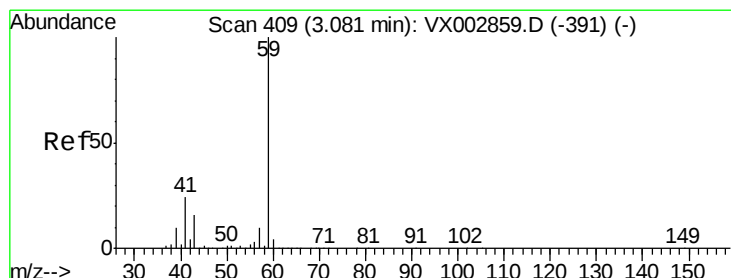
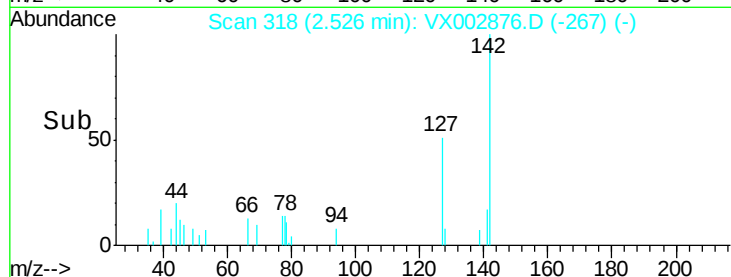
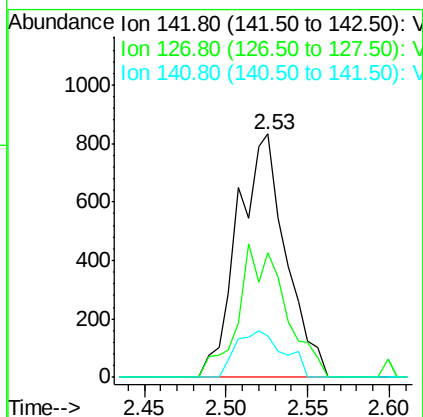
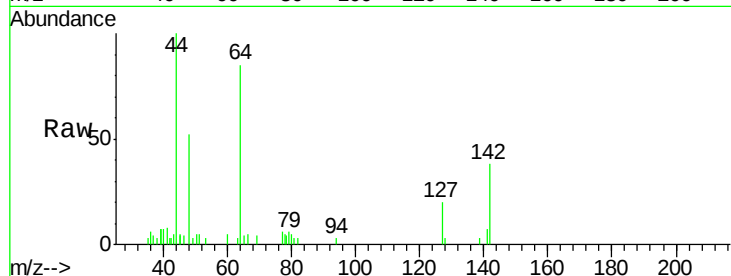




#10
Methyl Iodide
Concen: 6.79 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX002876.D
Acq: 25 Jun 2018 23:01

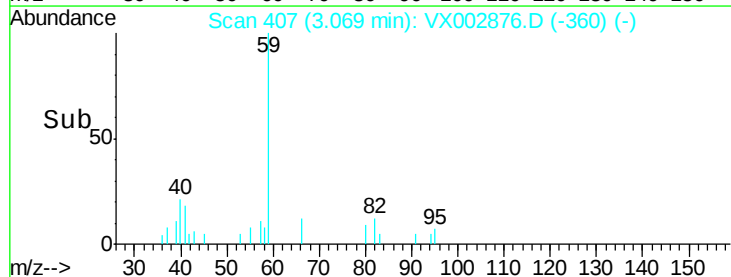
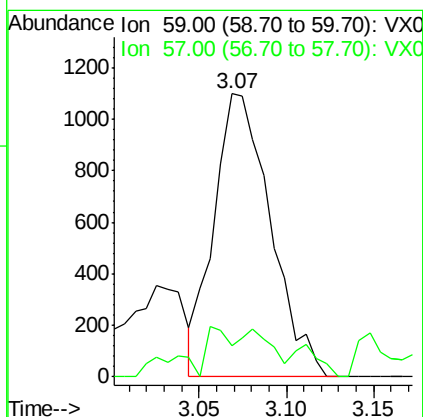
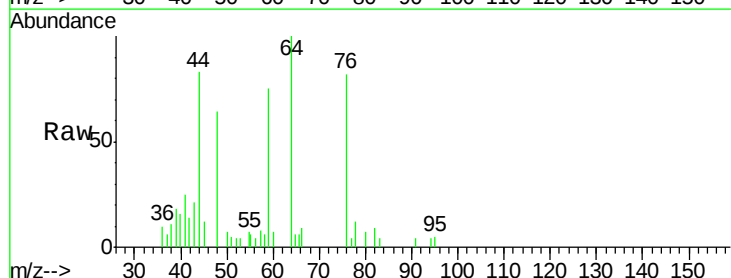
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:142 Resp: 1714
Ion Ratio Lower Upper
142 100
127 52.7 36.6 55.0
141 18.9 11.3 16.9#



#11
Tert butyl alcohol
Concen: 3.78 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX002876.D
Acq: 25 Jun 2018 23:01

Tgt Ion: 59 Resp: 2476
Ion Ratio Lower Upper
59 100
57 7.4 8.2 12.2#





#13

Acrolein

Concen: 4.58 ug/l

RT: 2.28 min Scan# 278

Delta R.T. -0.01 min

Lab File: VX002876.D

Acq: 25 Jun 2018 23:01

Instrument :

MSVOA_X

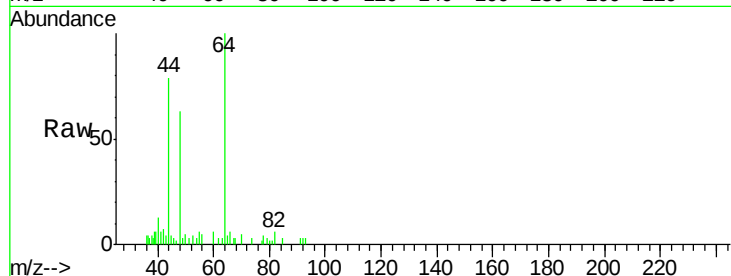
ClientSampleId :

Tot Ion: 56 Resp: 131

Ion Ratio Lower Upper

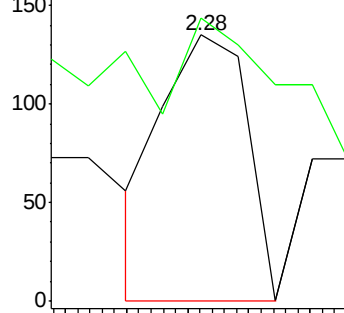
56 100

55 0.0 57.0 85.4#

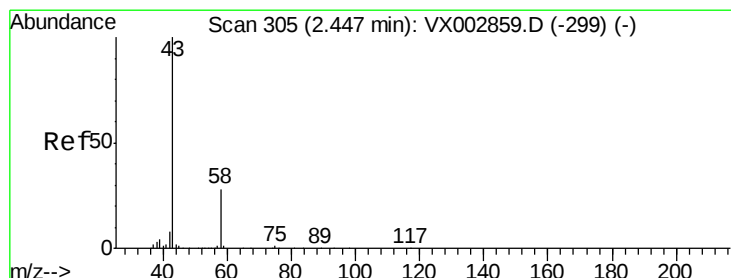
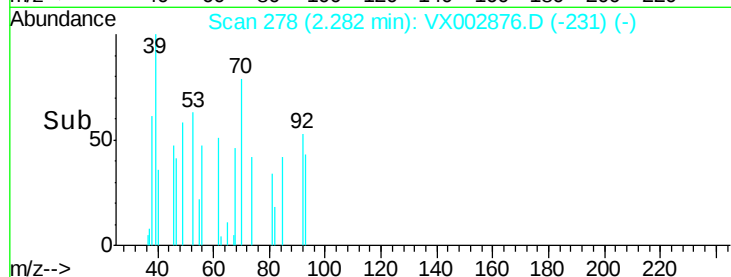


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#16

Acetone

Concen: 2.34 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX002876.D

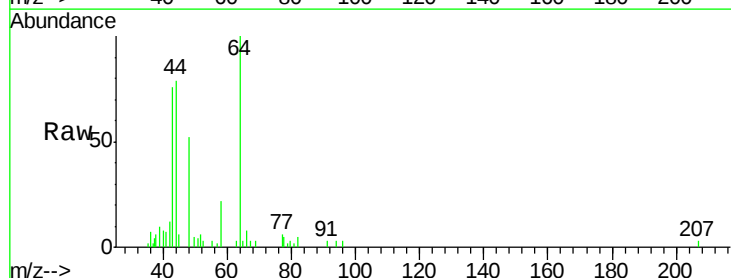
Acq: 25 Jun 2018 23:01

Tgt Ion: 43 Resp: 3184

Ion Ratio Lower Upper

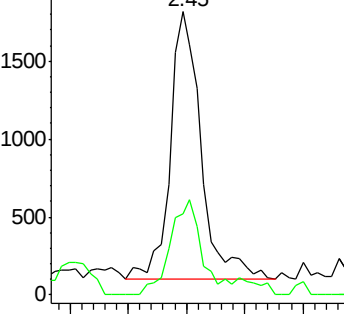
43 100

58 30.2 22.1 33.1

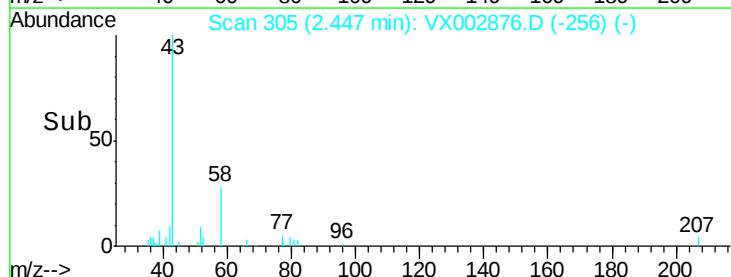


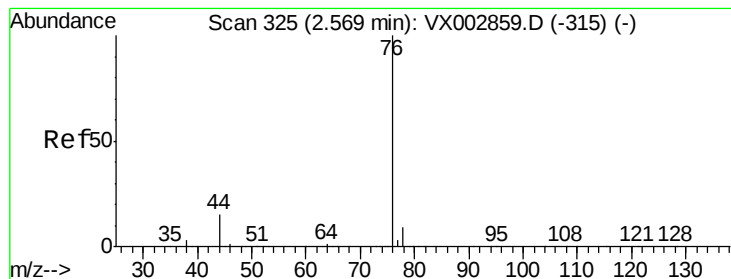
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->





#17

Carbon Disulfide

Concen: 0.59 ug/l

RT: 2.58 min Scan# 327

Delta R.T. 0.01 min

Lab File: VX002876.D

Acq: 25 Jun 2018 23:01

Instrument :

MSVOA_X

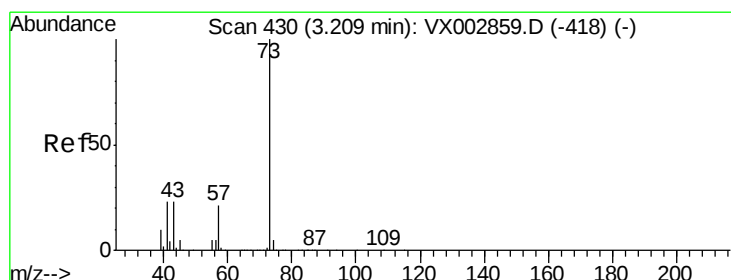
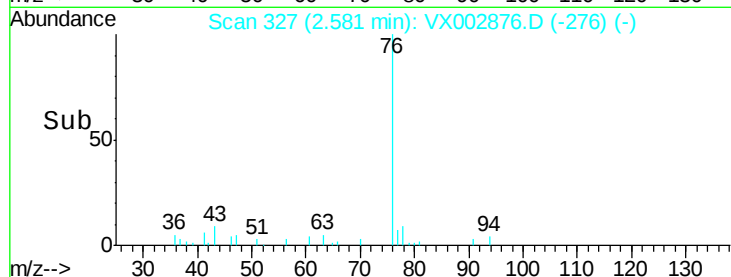
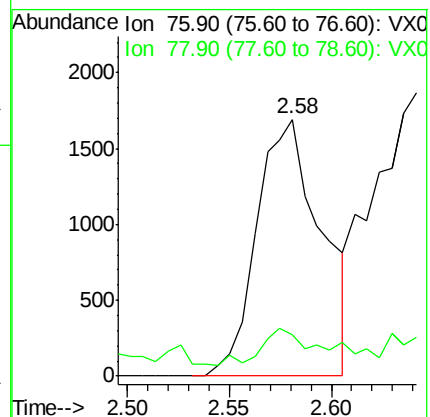
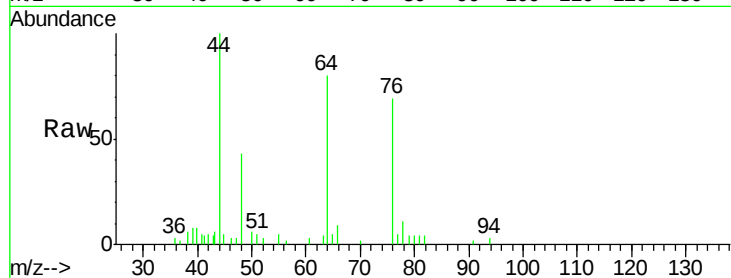
ClientSampled :

Tot Ion: 76 Resp: 3701

Ion Ratio Lower Upper

76 100

78 7.6 6.9 10.3



#19

Methyl tert-butyl Ether

Concen: 1.10 ug/l

RT: 3.21 min Scan# 431

Delta R.T. 0.01 min

Lab File: VX002876.D

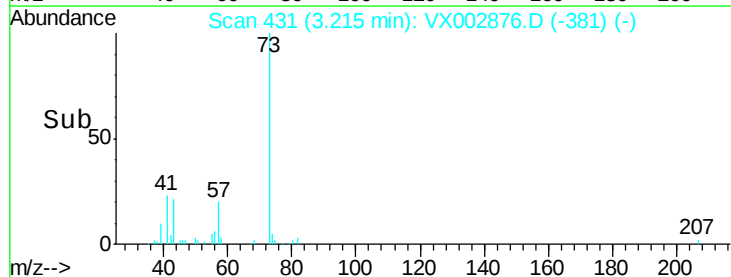
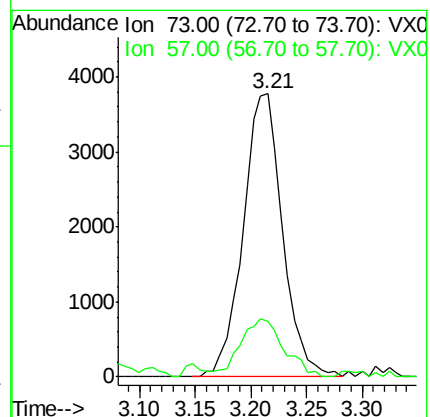
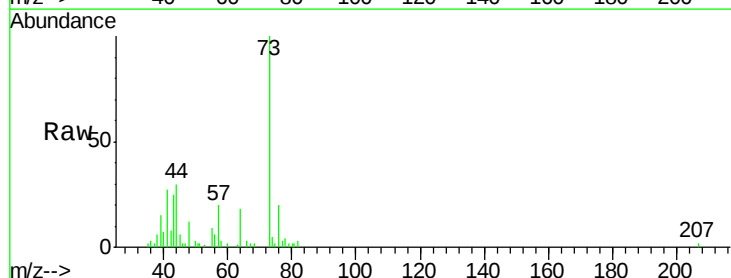
Acq: 25 Jun 2018 23:01

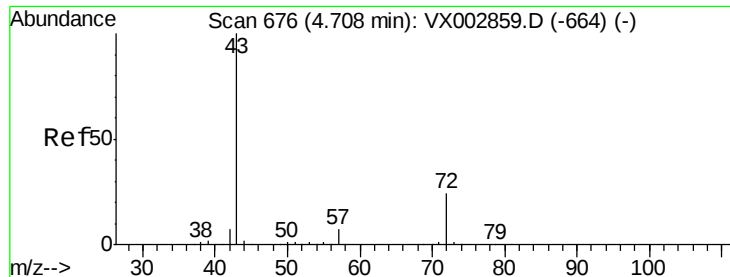
Tgt Ion: 73 Resp: 9290

Ion Ratio Lower Upper

73 100

57 17.4 17.7 26.5#





#25

2-Butanone

Concen: 0.33 ug/l

RT: 4.70 min Scan# 675

Delta R.T. -0.01 min

Lab File: VX002876.D

Acq: 25 Jun 2018 23:01

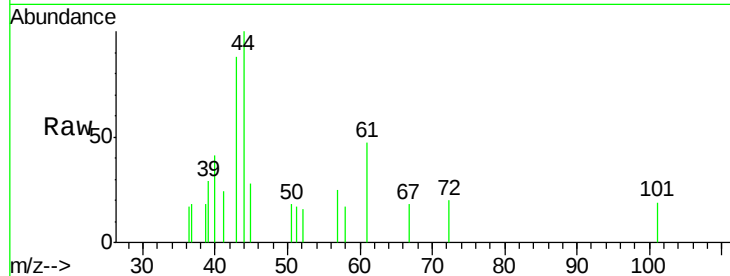
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 675

Ion Ratio Lower Upper

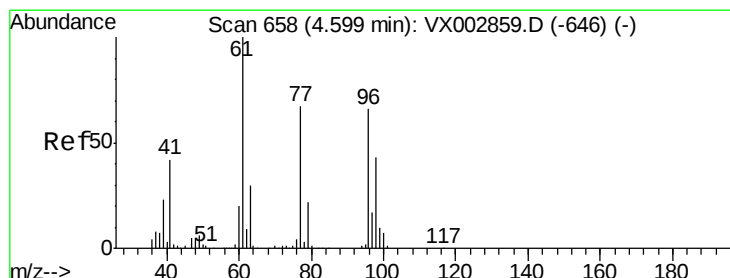
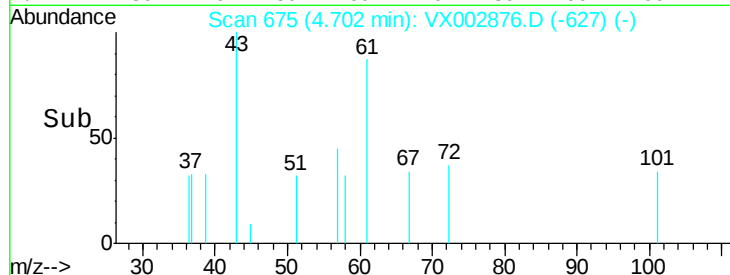
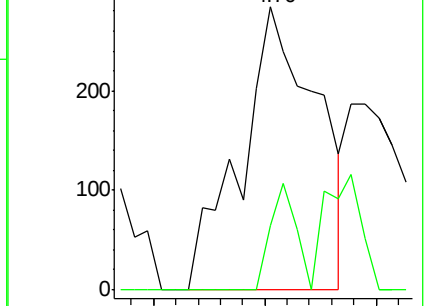
43 100

72 22.9 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 0.24 ug/l

RT: 4.60 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX002876.D

Acq: 25 Jun 2018 23:01

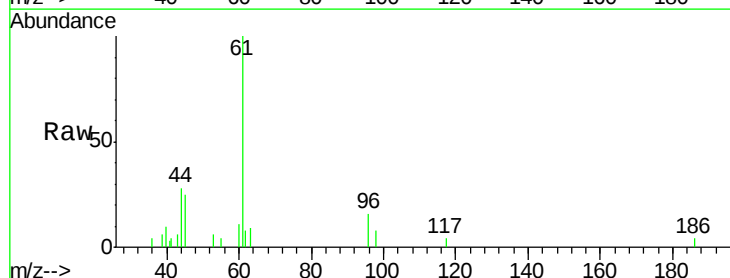
Tgt Ion: 96 Resp: 688

Ion Ratio Lower Upper

96 100

61 885.2 0.0 330.2#

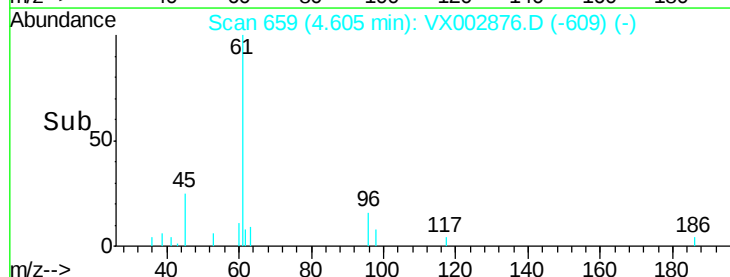
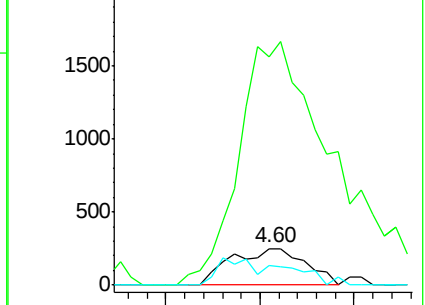
98 0.0 0.0 130.2

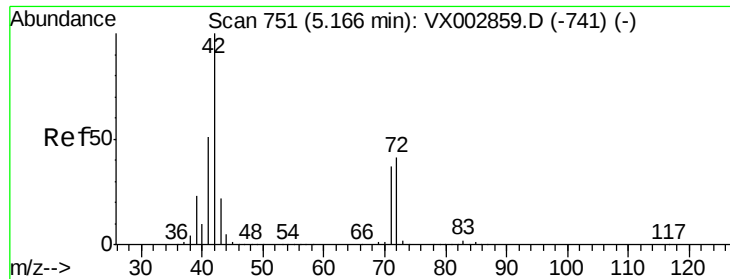


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

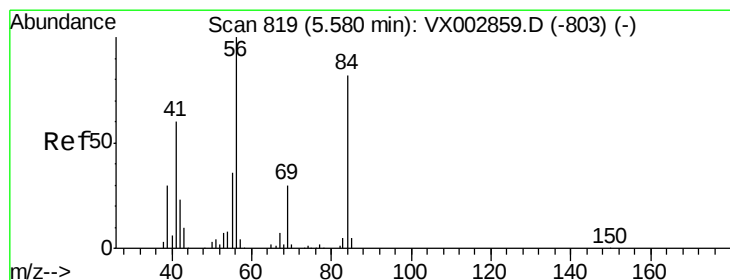
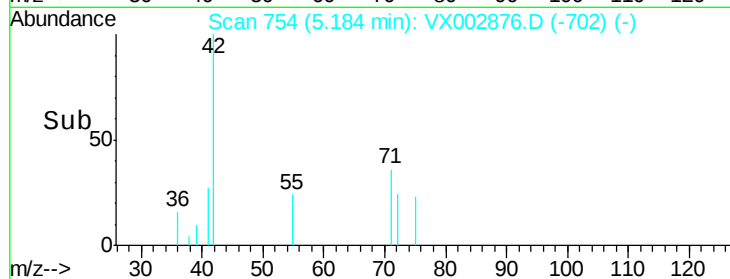
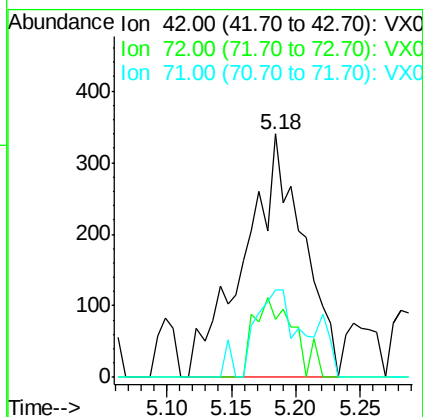
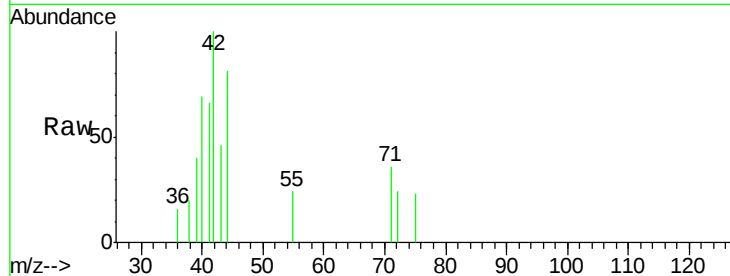




#29
Tetrahydrofuran
Concen: 0.83 ug/l
RT: 5.18 min Scan# 754
Delta R.T. 0.02 min
Lab File: VX002876.D
Acq: 25 Jun 2018 23:01

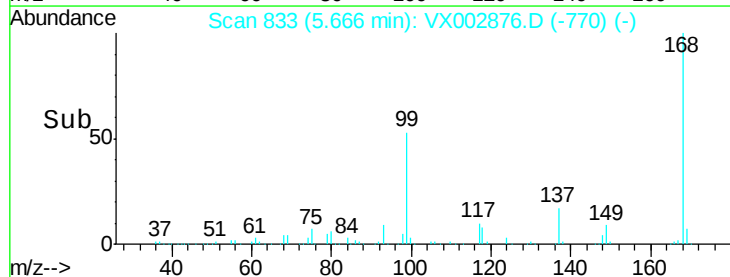
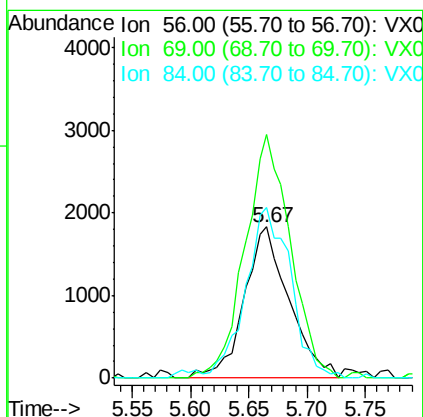
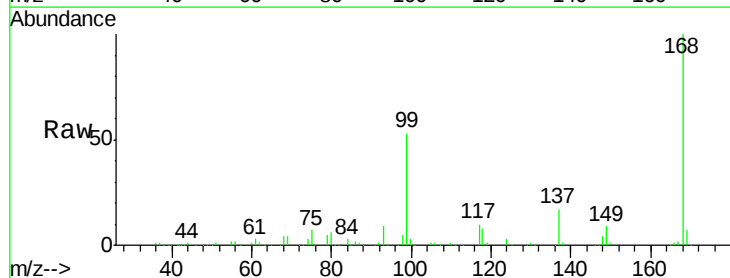
Instrument :
MSVOA_X
ClientSampleId :

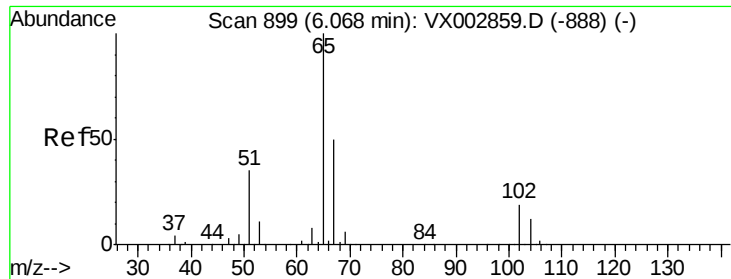
Tot Ion: 42 Resp: 1074
Ion Ratio Lower Upper
42 100
72 22.2 32.0 48.0#
71 23.7 30.1 45.1#



#31
Cyclohexane
Concen: 1.18 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.09 min
Lab File: VX002876.D
Acq: 25 Jun 2018 23:01

Tgt Ion: 56 Resp: 4886
Ion Ratio Lower Upper
56 100
69 161.1 23.7 35.5#
84 115.0 64.1 96.1#

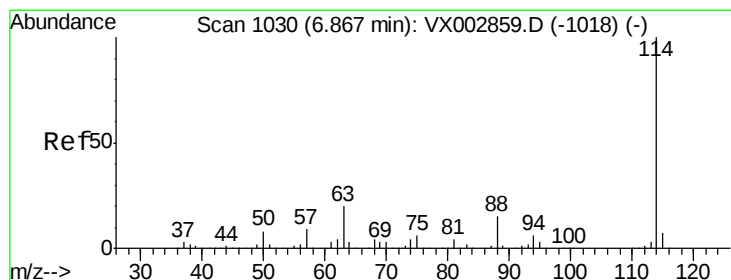
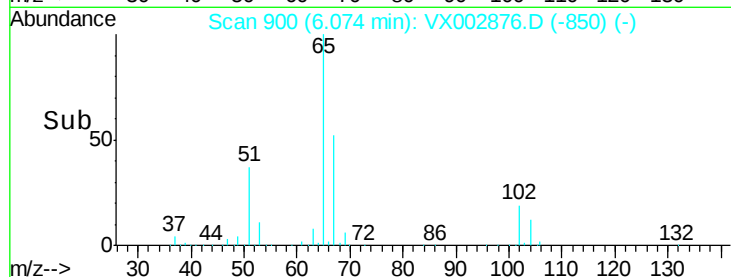
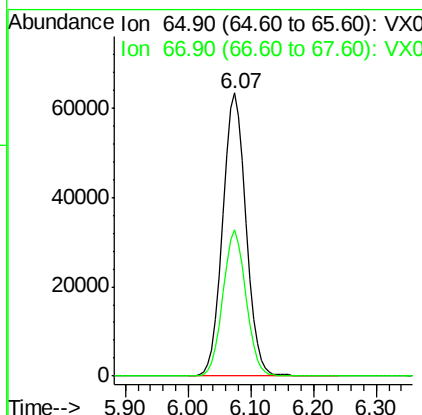
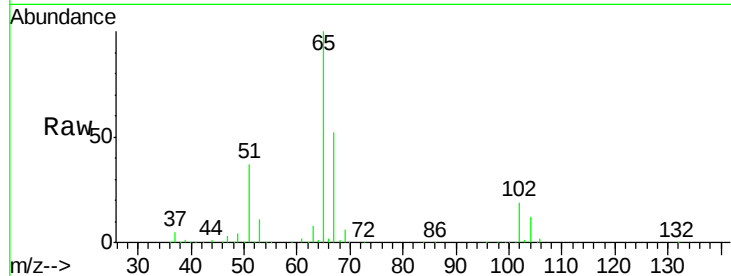




#33
 1,2-Dichloroethane-d4
 Concen: 49.58 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX002876.D
 Acq: 25 Jun 2018 23:01

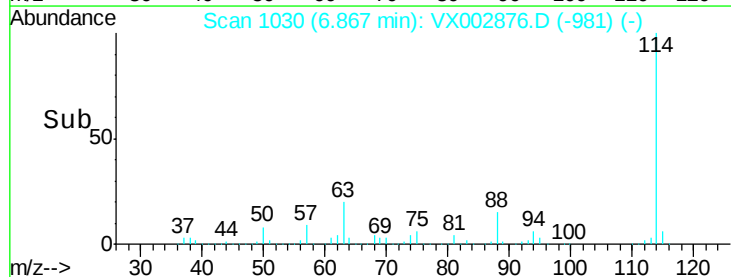
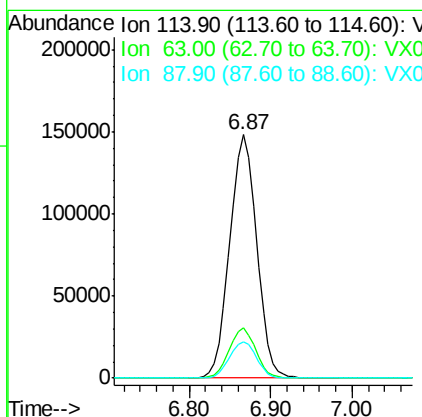
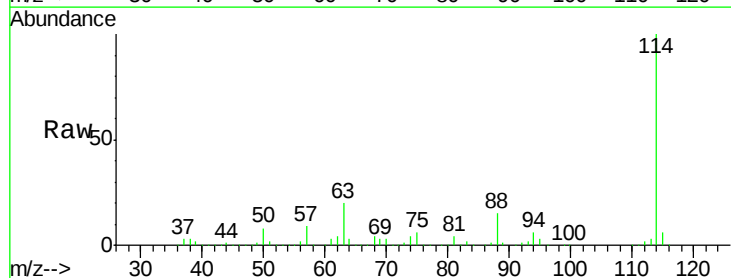
Instrument :
 MSVOA_X
 ClientSampleId :

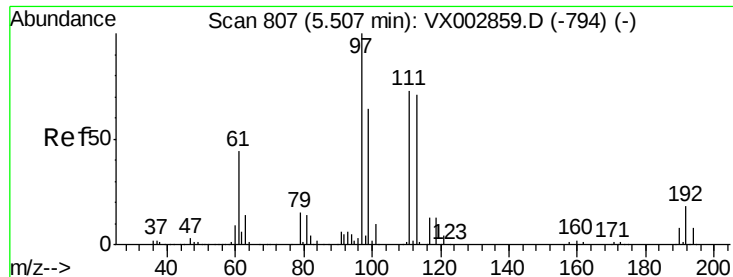
Tot Ion: 65 Resp: 163083
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002876.D
 Acq: 25 Jun 2018 23:01

Tgt Ion: 114 Resp: 337947
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 41.4
 88 14.9 0.0 30.0





#35

Dibromofluoromethane

Concen: 48.97 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX002876.D

Acq: 25 Jun 2018 23:01

Instrument :

MSVOA_X

ClientSampleId :

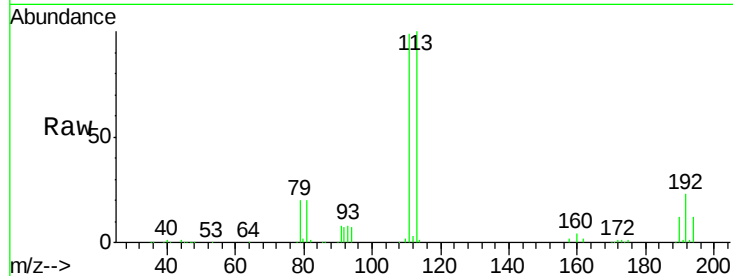
Tot Ion:113 Resp: 131044

Ion Ratio Lower Upper

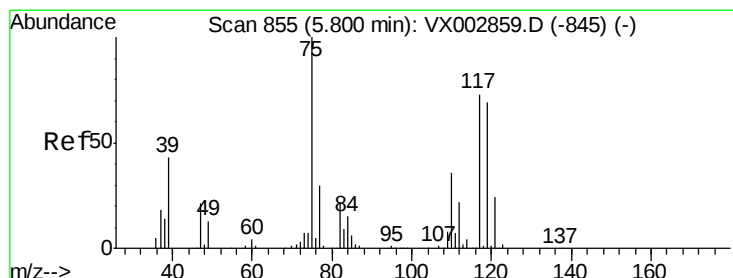
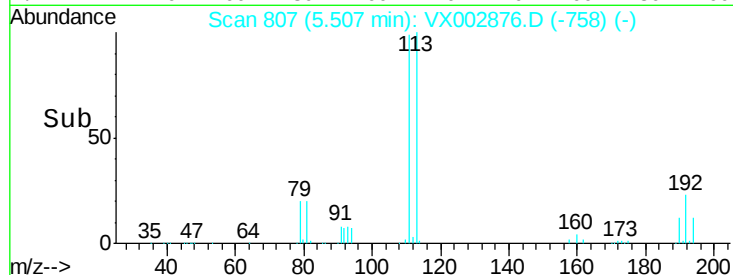
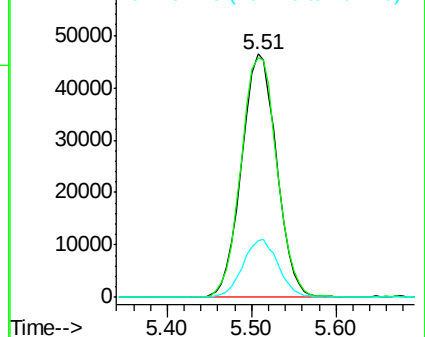
113 100

111 101.2 81.4 122.0

192 23.8 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: 4.44 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.14 min

Lab File: VX002876.D

Acq: 25 Jun 2018 23:01

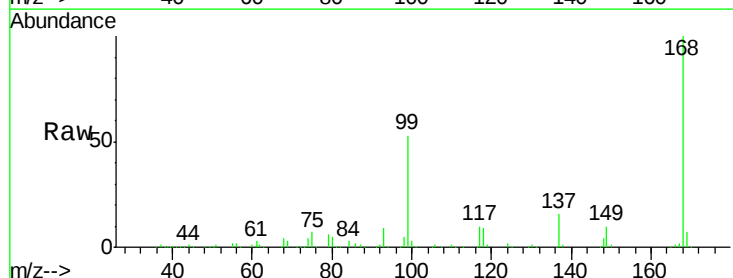
Tgt Ion: 75 Resp: 16449

Ion Ratio Lower Upper

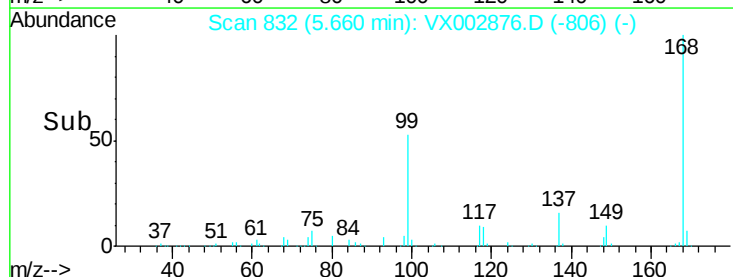
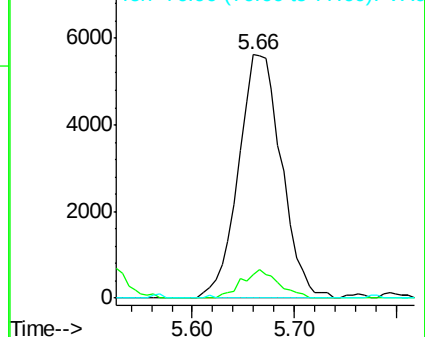
75 100

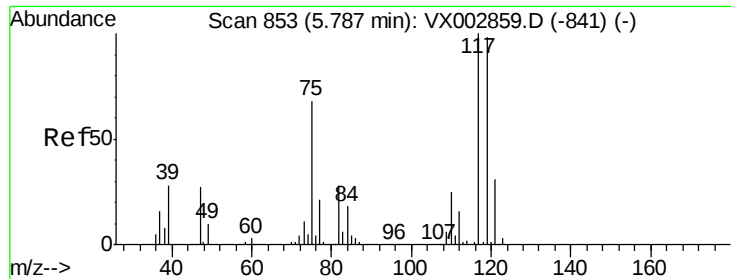
110 10.0 18.1 54.4#

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: 5.52 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002876.D

Acq: 25 Jun 2018 23:01

Instrument :

MSVOA_X

ClientSampled :

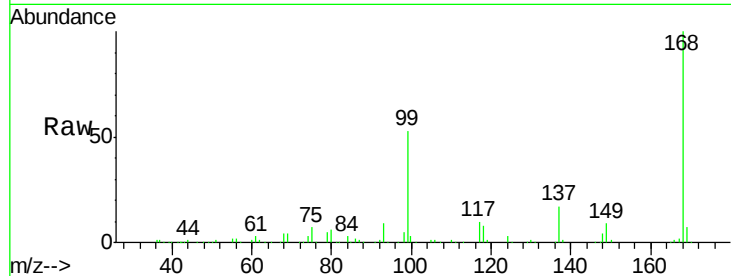
Tot Ion:117 Resp: 22434

Ion Ratio Lower Upper

117 100

119 6.7 77.4 116.0#

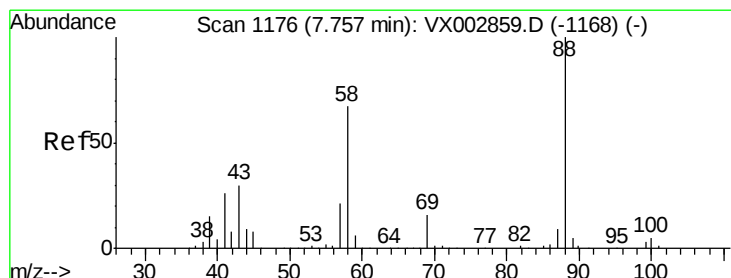
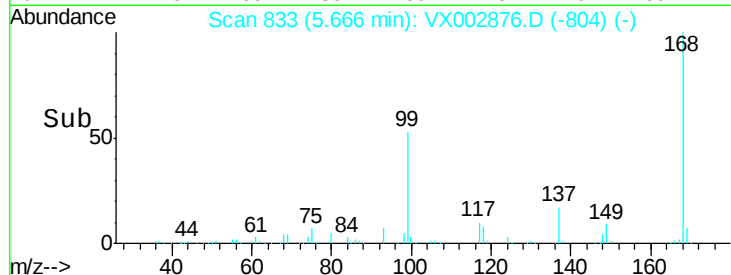
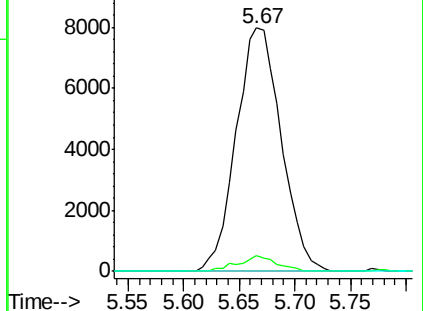
121 0.0 24.4 36.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 5.02 ug/l

RT: 7.76 min Scan# 1177

Delta R.T. 0.01 min

Lab File: VX002876.D

Acq: 25 Jun 2018 23:01

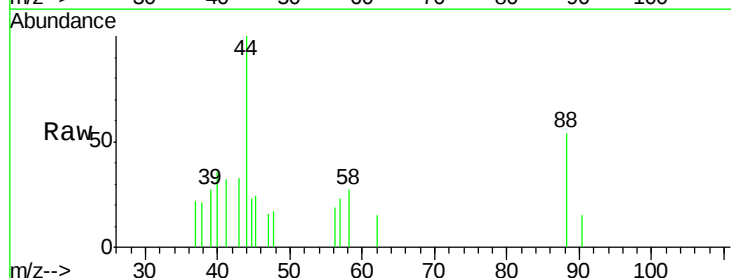
Tgt Ion: 88 Resp: 337

Ion Ratio Lower Upper

88 100

43 74.5 29.8 44.6#

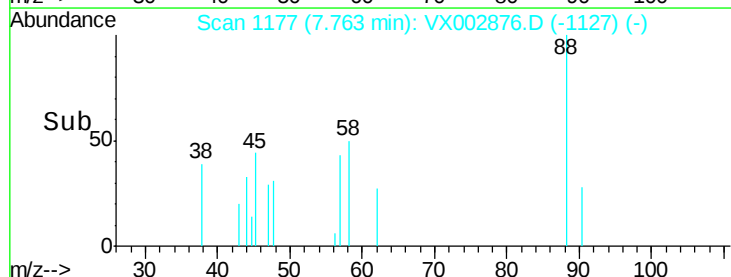
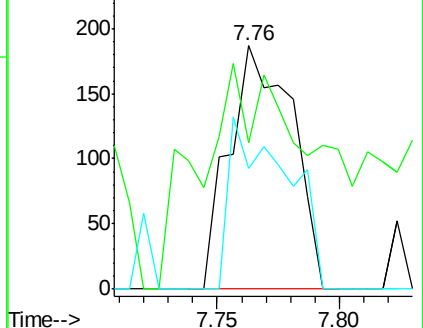
58 65.3 57.1 85.7

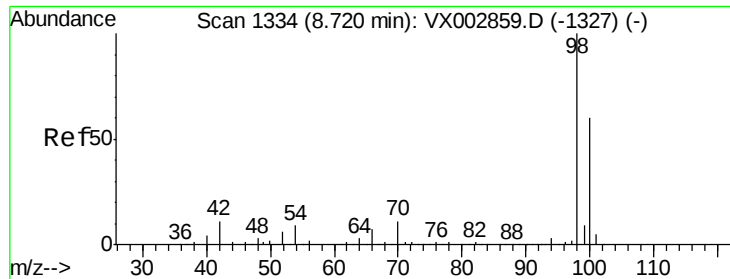


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.31 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002876.D

Acq: 25 Jun 2018 23:01

Instrument :

MSVOA_X

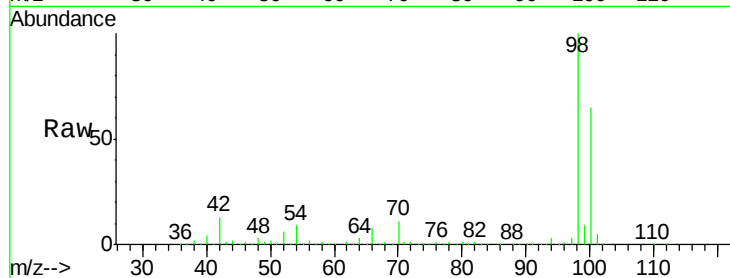
ClientSampleId :

Tot Ion: 98 Resp: 472088

Ion Ratio Lower Upper

98 100

100 64.1 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

300000

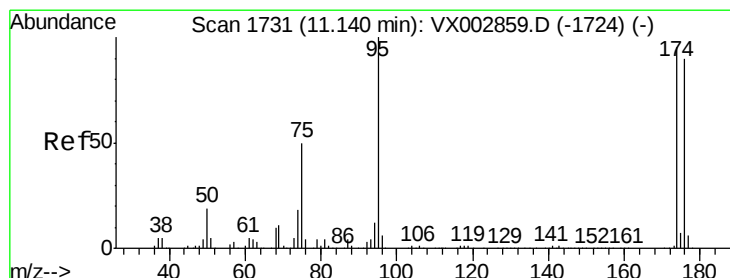
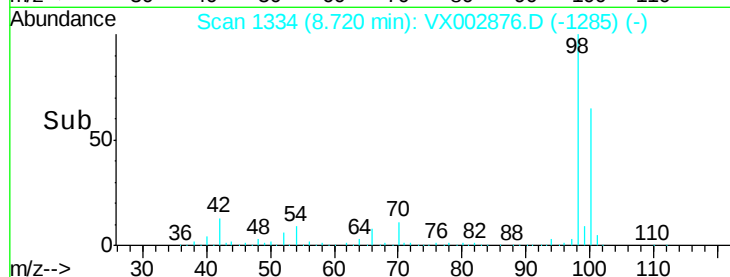
200000

100000

0

8.60 8.70 8.80

Time-->



#62

4-Bromofluorobenzene

Concen: 44.59 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002876.D

Acq: 25 Jun 2018 23:01

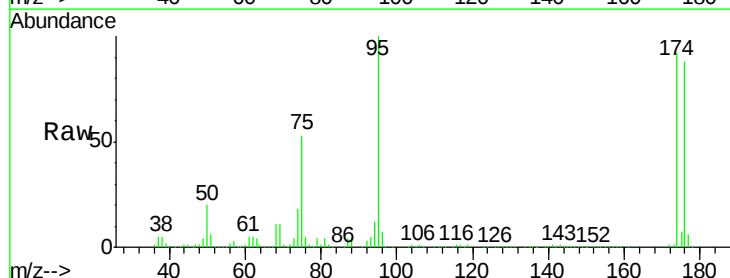
Tgt Ion: 95 Resp: 168043

Ion Ratio Lower Upper

95 100

174 95.9 0.0 187.4

176 92.7 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

11.14

150000

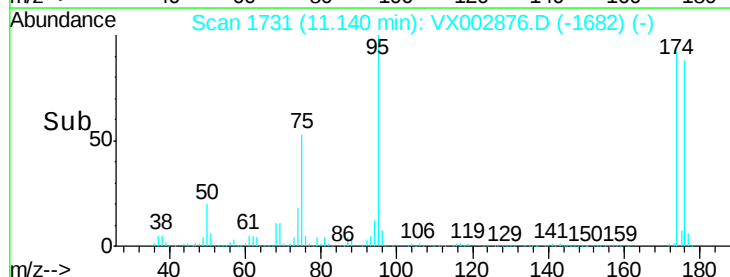
100000

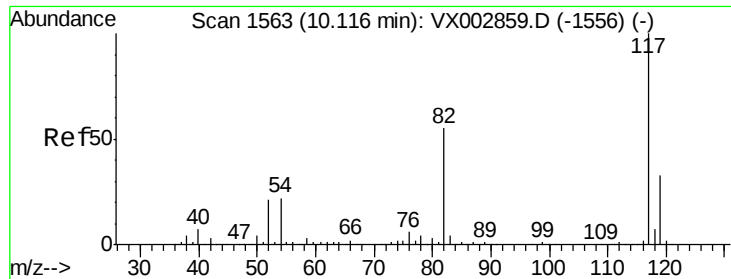
50000

0

11.10 11.20

Time-->





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX002876.D

Acq: 25 Jun 2018 23:01

Instrument :

MSVOA_X

ClientSampleId :

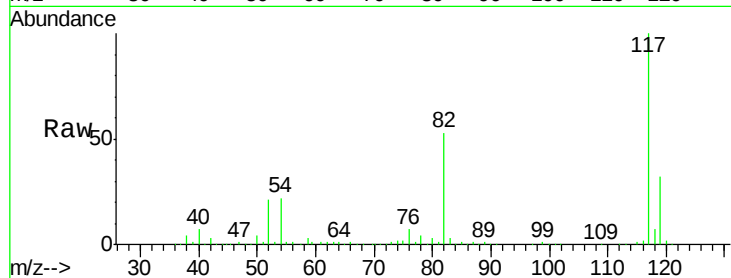
Tot Ion:117 Resp: 312917

Ion Ratio Lower Upper

117 100

82 53.5 45.0 67.4

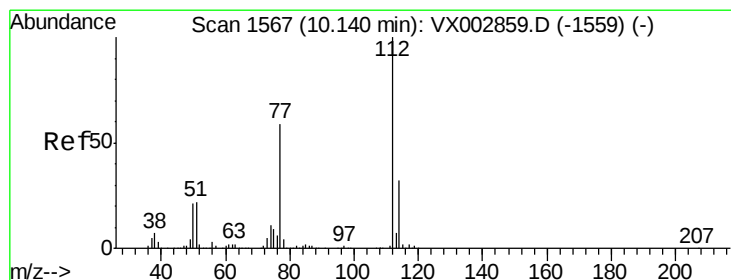
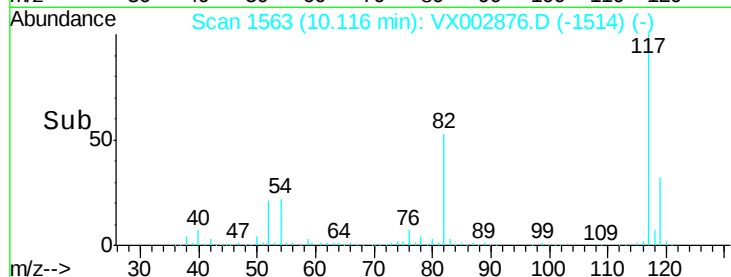
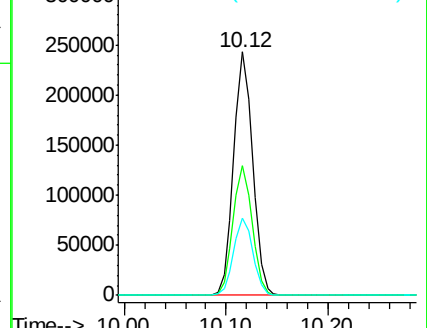
119 31.8 25.8 38.6



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



#65

Chlorobenzene

Concen: 0.38 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VX002876.D

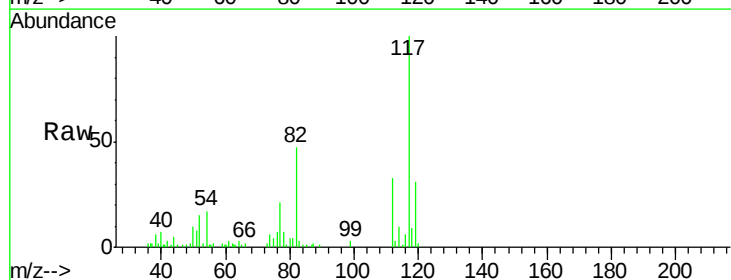
Acq: 25 Jun 2018 23:01

Tgt Ion:112 Resp: 3031

Ion Ratio Lower Upper

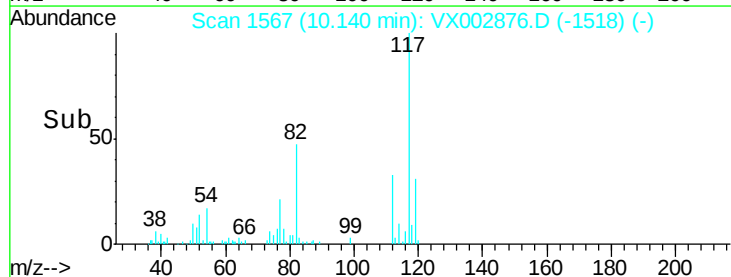
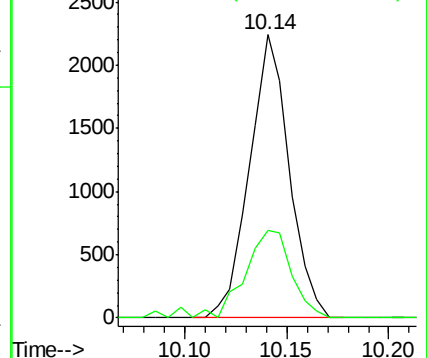
112 100

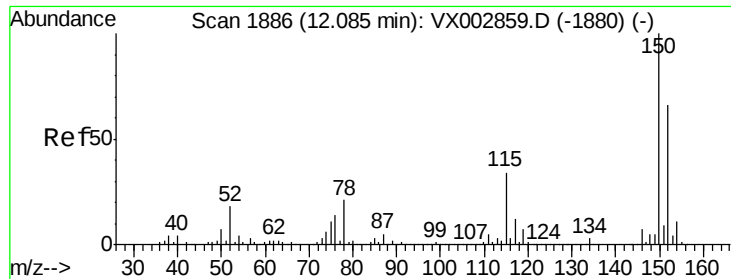
114 30.8 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX002876.D

Acq: 25 Jun 2018 23:01

Instrument :

MSVOA_X

ClientSampled :

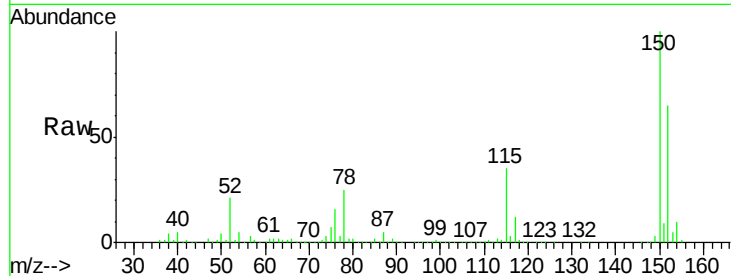
Tot Ion:152 Resp: 177652

Ion Ratio Lower Upper

152 100

115 53.9 40.1 120.2

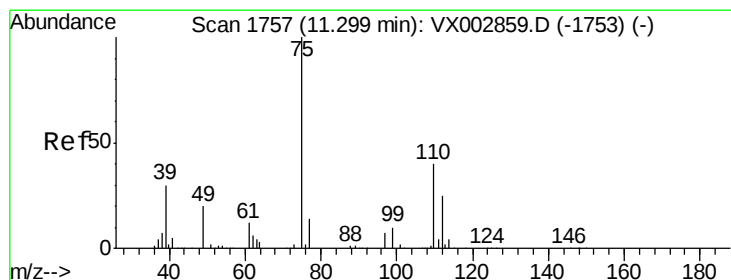
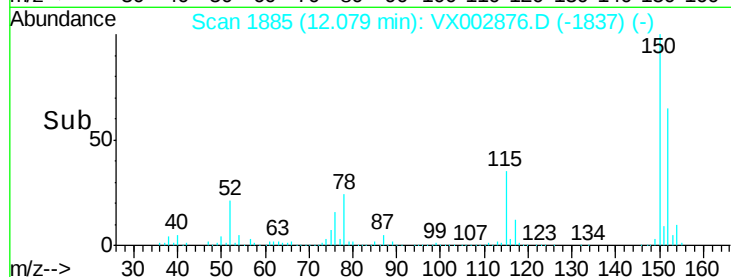
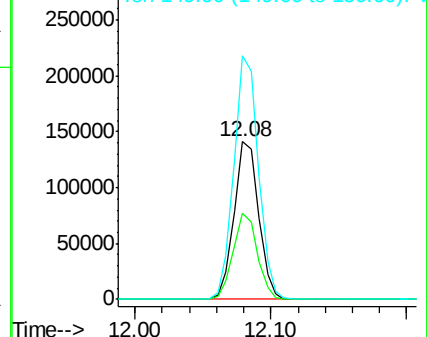
150 154.4 0.0 347.2



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: 27.31 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002876.D

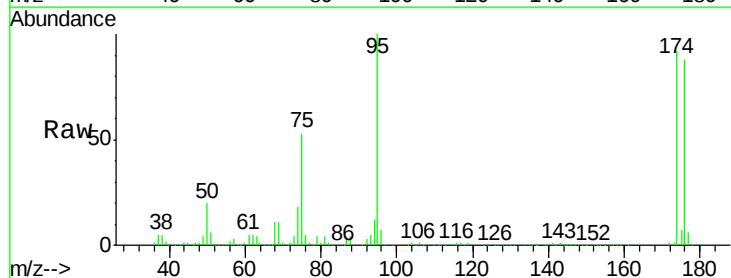
Acq: 25 Jun 2018 23:01

Tgt Ion: 75 Resp: 87870

Ion Ratio Lower Upper

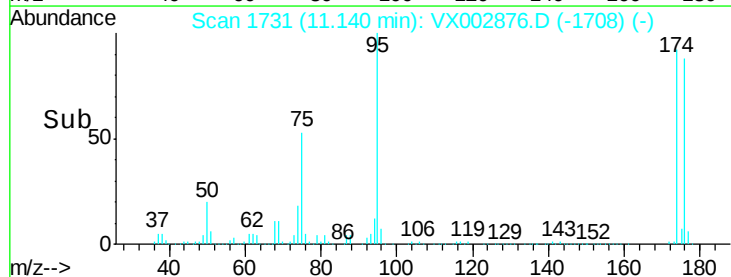
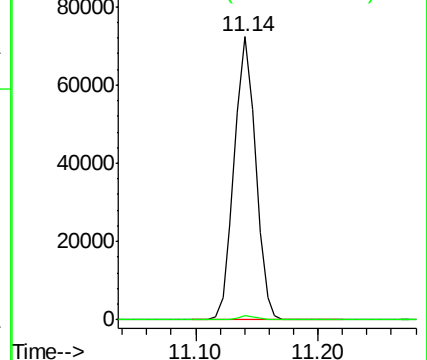
75 100

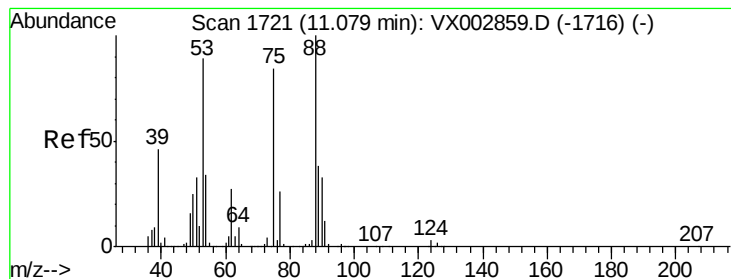
77 1.2 22.8 68.3#



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: 77.26 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

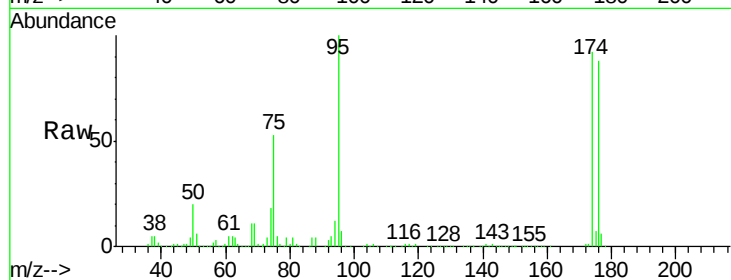
Lab File: VX002876.D

Acq: 25 Jun 2018 23:01

Instrument :

MSVOA_X

ClientSampleId :



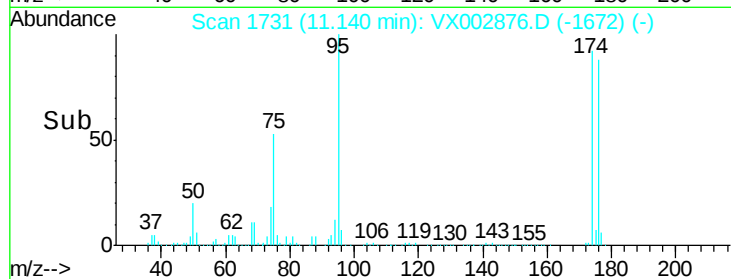
Tot Ion: 75 Resp: 87870

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

