

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX051818\
 Data File : VX001841.D
 Acq On : 18 May 2018 22:01
 Operator : JC/MD
 Sample : J2986-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 19 02:28:41 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X051518W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 15 01:36:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	282217	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	405656	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	320478	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	175057	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	219047	57.91	ug/l	0.00
Spiked Amount			Recovery	=	115.82%	
35) Dibromofluoromethane	5.51	113	188857	55.17	ug/l	0.00
Spiked Amount			Recovery	=	110.34%	
50) Toluene-d8	8.72	98	678794	55.36	ug/l	0.00
Spiked Amount			Recovery	=	110.72%	
62) 4-Bromofluorobenzene	11.14	95	193999	43.95	ug/l	0.00
Spiked Amount			Recovery	=	87.90%	

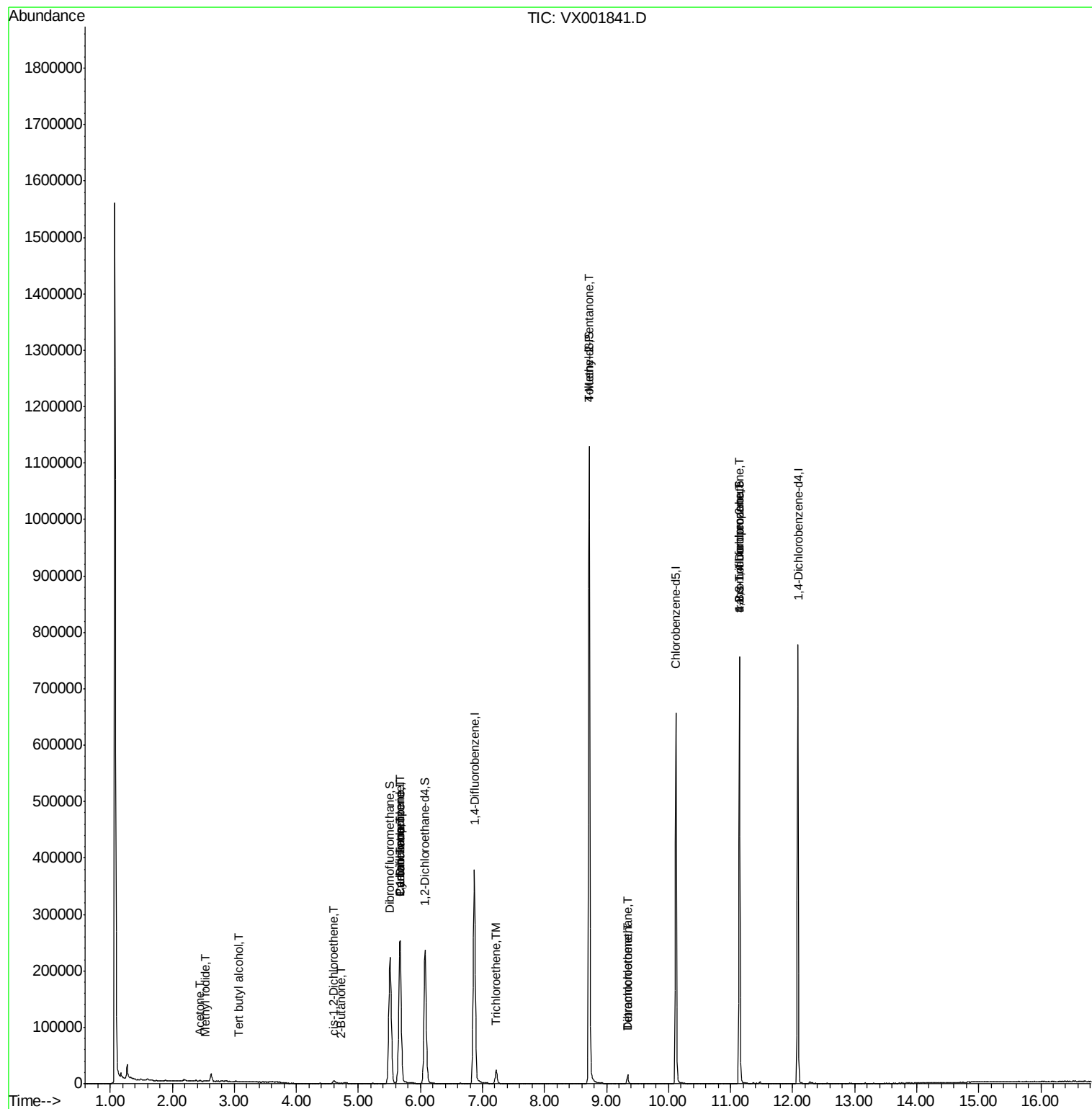
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	836	Below Cal		84
10) Methyl Iodide	2.53	142	638	0.24 ug/l	#	82
11) Tert butyl alcohol	3.08	59	596	0.89 ug/l		100
16) Acetone	2.45	43	1961	1.32 ug/l		92
25) 2-Butanone	4.72	43	823	0.36 ug/l	#	51
27) cis-1,2-Dichloroethene	4.60	96	2759	0.79 ug/l		63
31) Cyclohexane	5.66	56	4196	0.88 ug/l	#	1
36) 1,1-Dichloropropene	5.67	75	16457	3.52 ug/l	#	49
38) Carbon Tetrachloride	5.67	117	22885	4.68 ug/l	#	16
44) Trichloroethene	7.22	130	9705	2.27 ug/l		98
51) 4-Methyl-2-Pentanone	8.72	43	2673	0.55 ug/l	#	1
60) Dibromochloromethane	9.34	129	3068	0.89 ug/l	#	11
64) Tetrachloroethene	9.34	164	3239	0.78 ug/l	#	83
76) 1,2,3-Trichloropropane	11.14	75	91337	27.44 ug/l	#	39
81) trans-1,4-Dichloro-2-buten	11.14	75	91337	79.67 ug/l	#	10

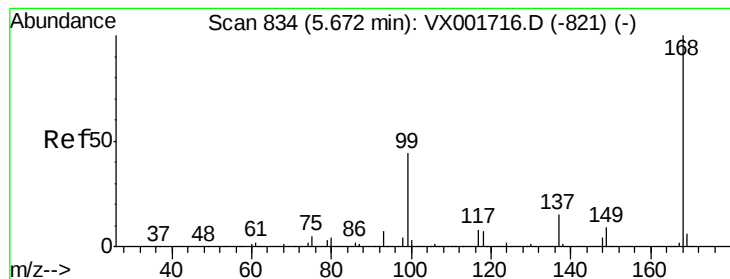
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX001841.D

Acq: 18 May 2018 22:01

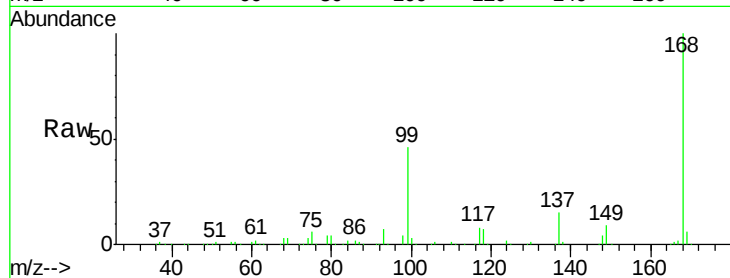
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 282217

Ion Ratio Lower Upper

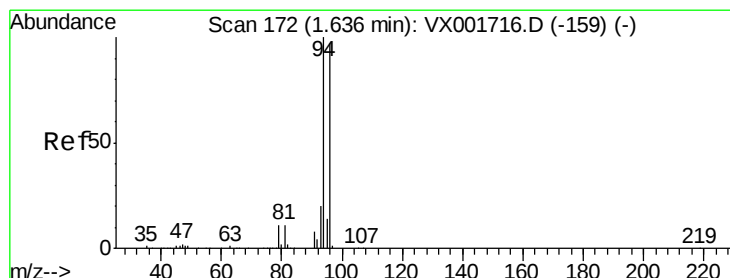
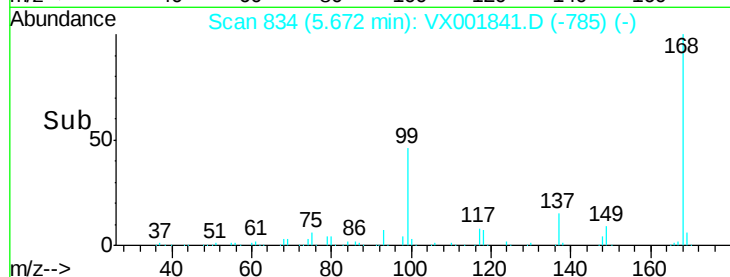
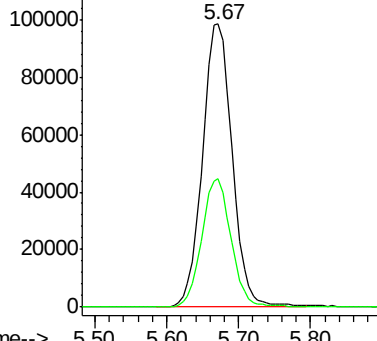
168 100

99 45.6 35.0 52.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX001841.D

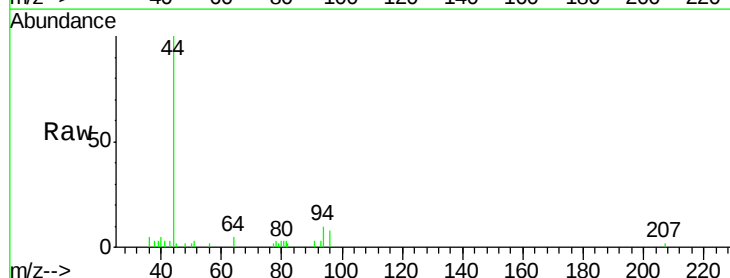
Acq: 18 May 2018 22:01

Tgt Ion: 94 Resp: 836

Ion Ratio Lower Upper

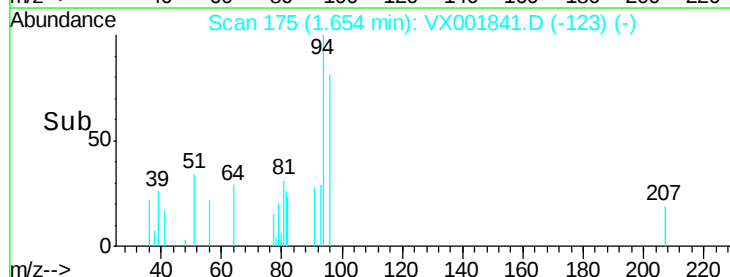
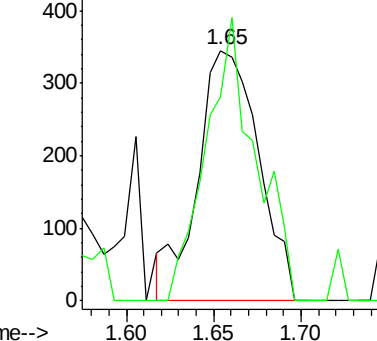
94 100

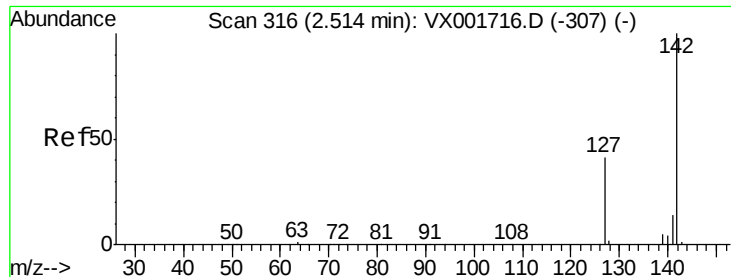
96 81.4 77.4 116.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

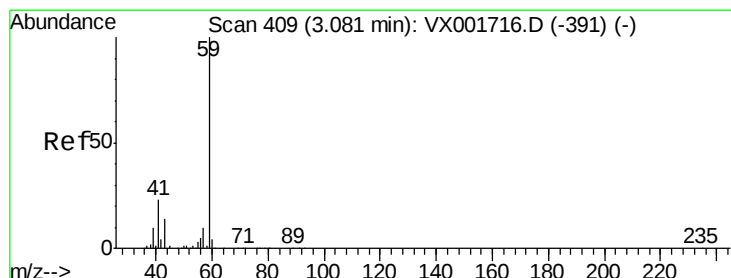
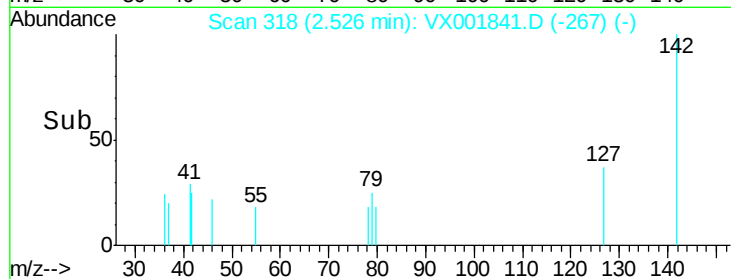
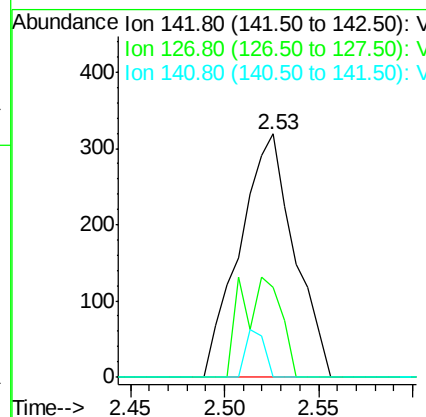
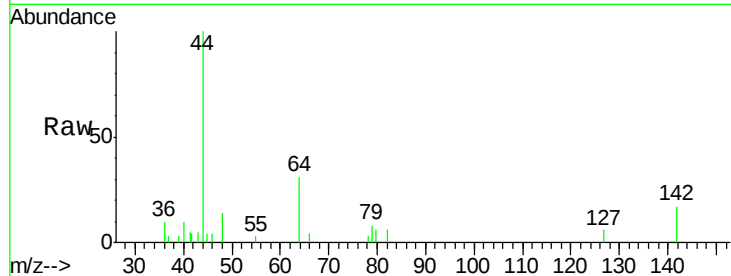




#10
Methyl Iodide
Concen: 0.24 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX001841.D
Acq: 18 May 2018 22:01

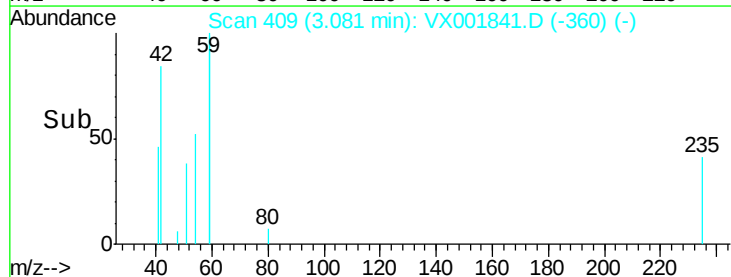
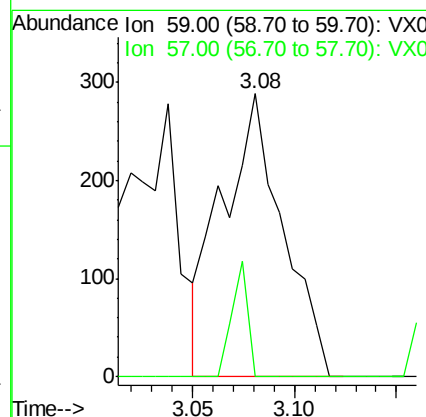
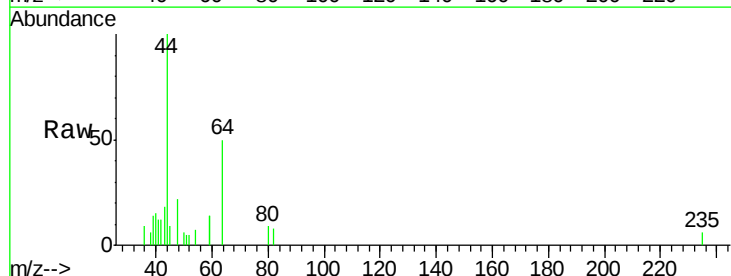
Instrument :
MSVOA_X
ClientSampled :

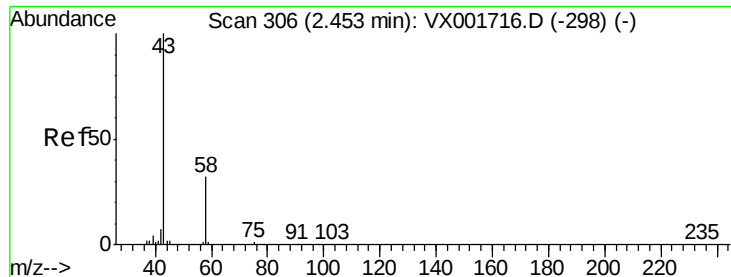
Tot Ion:142 Resp: 638
Ion Ratio Lower Upper
142 100
127 29.6 32.5 48.7#
141 6.6 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.89 ug/l
RT: 3.08 min Scan# 409
Delta R.T. -0.00 min
Lab File: VX001841.D
Acq: 18 May 2018 22:01

Tgt Ion: 59 Resp: 596
Ion Ratio Lower Upper
59 100
57 10.6 8.5 12.7





#16

Acetone

Concen: 1.32 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX001841.D

Acq: 18 May 2018 22:01

Instrument :

MSVOA_X

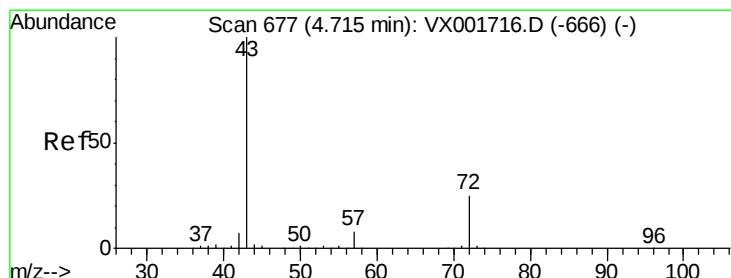
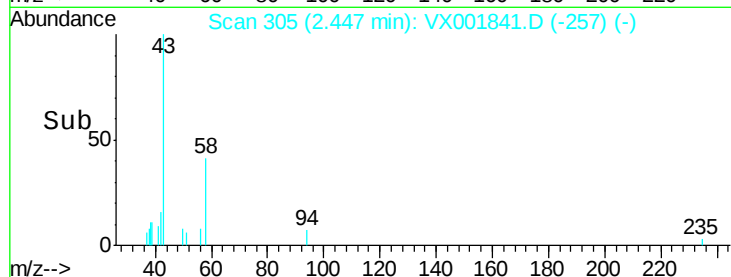
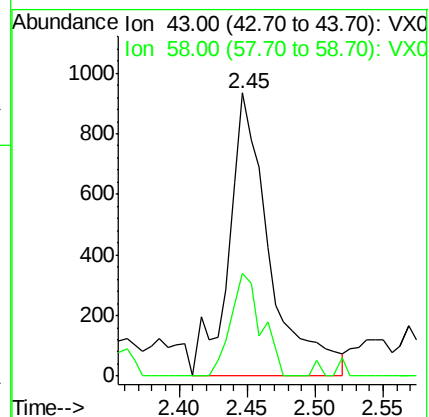
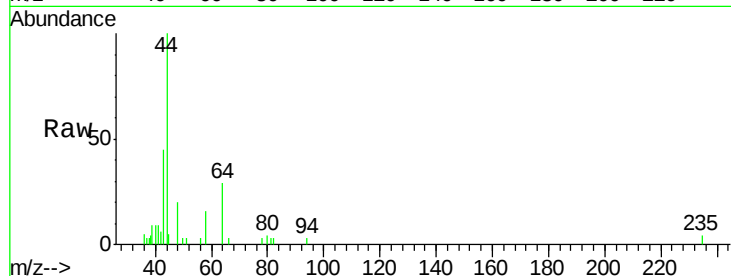
ClientSampled :

Tot Ion: 43 Resp: 1961

Ion Ratio Lower Upper

43 100

58 36.3 25.3 37.9



#25

2-Butanone

Concen: 0.36 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX001841.D

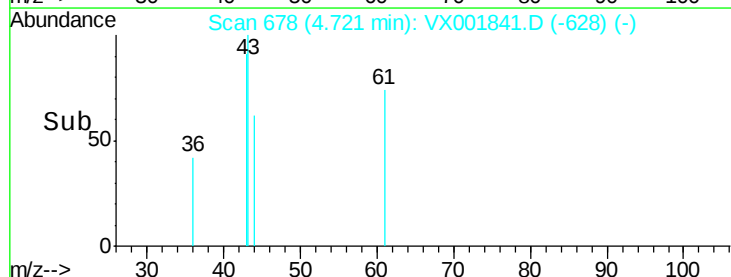
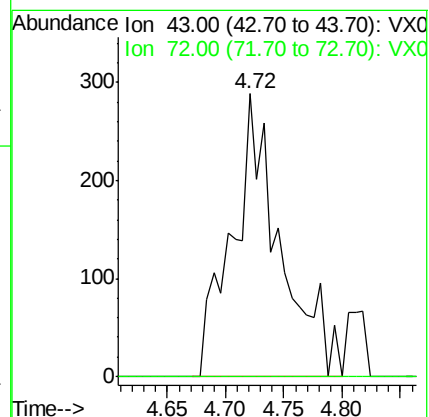
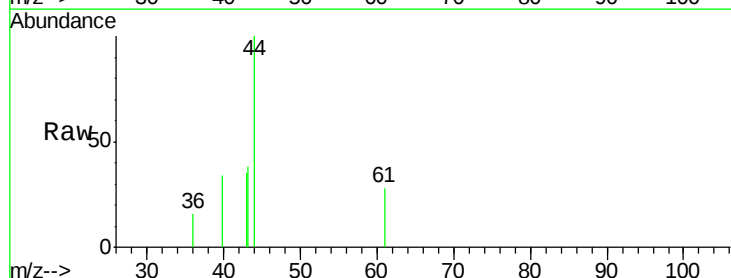
Acq: 18 May 2018 22:01

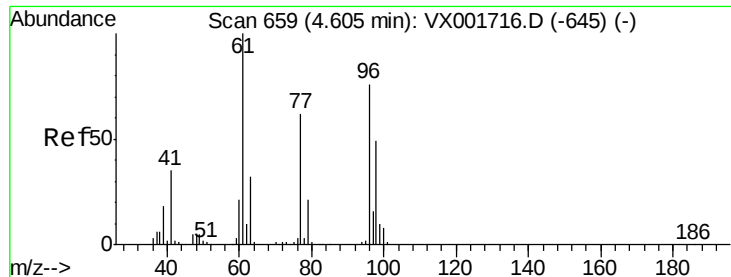
Tgt Ion: 43 Resp: 823

Ion Ratio Lower Upper

43 100

72 0.0 19.8 29.6#





#27

cis-1,2-Dichloroethene

Concen: 0.79 ug/l

RT: 4.60 min Scan# 659

Delta R.T. -0.00 min

Lab File: VX001841.D

Acq: 18 May 2018 22:01

Instrument :

MSVOA_X

ClientSampleId :

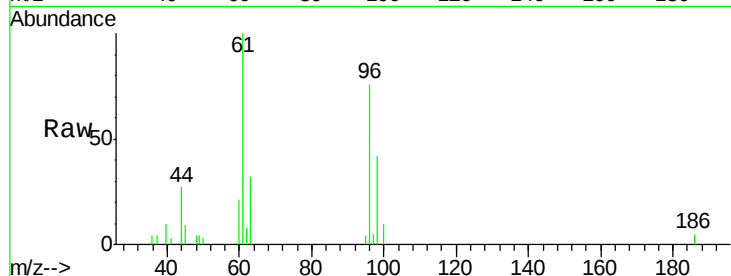
Tot Ion: 96 Resp: 2759

Ion Ratio Lower Upper

96 100

61 204.9 0.0 280.4

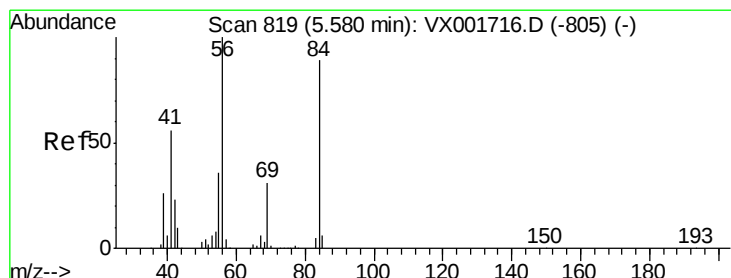
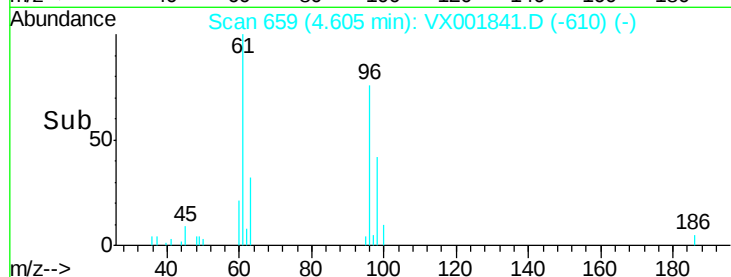
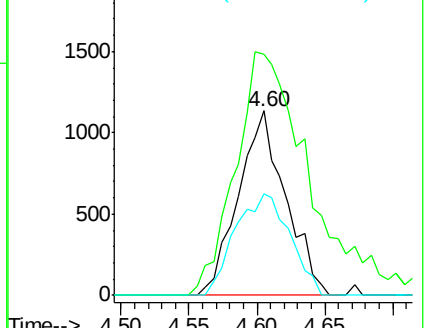
98 63.6 0.0 128.4



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



#31

Cyclohexane

Concen: 0.88 ug/l

RT: 5.66 min Scan# 832

Delta R.T. 0.08 min

Lab File: VX001841.D

Acq: 18 May 2018 22:01

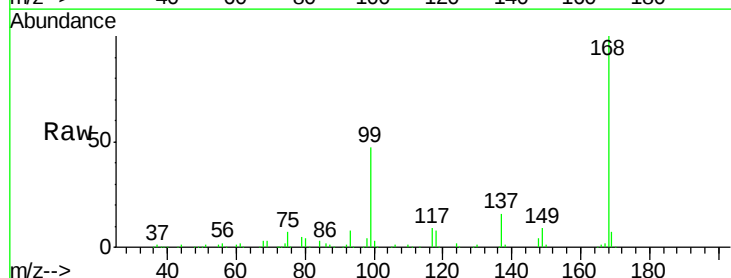
Tgt Ion: 56 Resp: 4196

Ion Ratio Lower Upper

56 100

69 173.1 25.0 37.6#

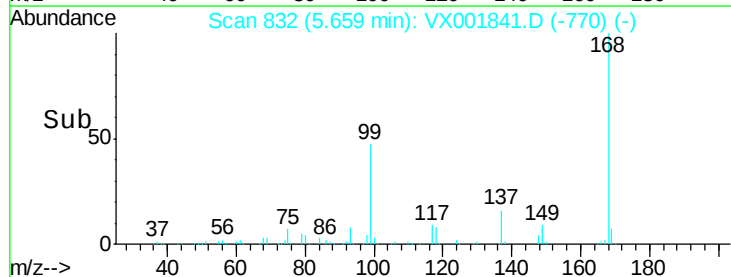
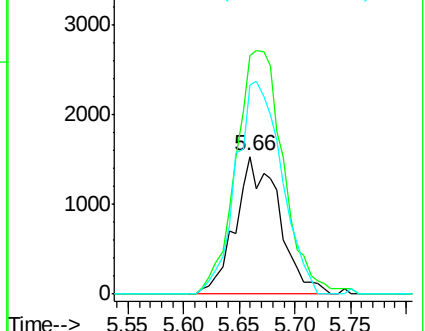
84 151.6 71.0 106.4#

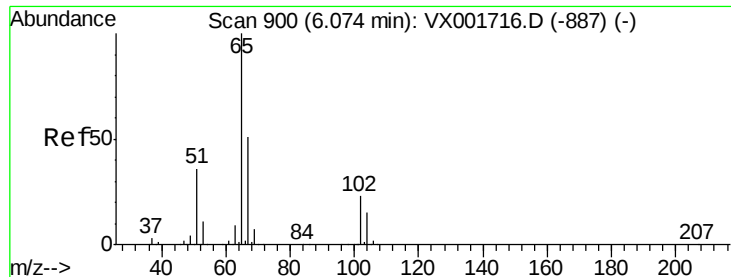


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 57.91 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX001841.D

Acq: 18 May 2018 22:01

Instrument :

MSVOA_X

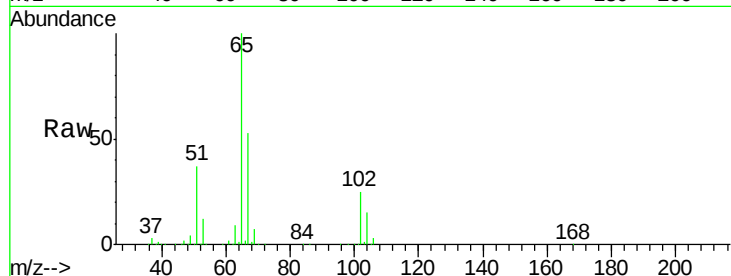
ClientSampleId :

Tot Ion: 65 Resp: 219047

Ion Ratio Lower Upper

65 100

67 52.9 0.0 102.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

80000

60000

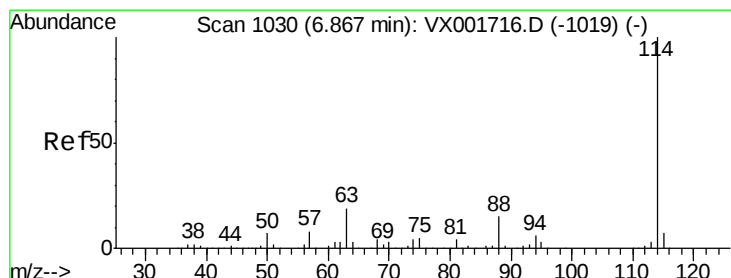
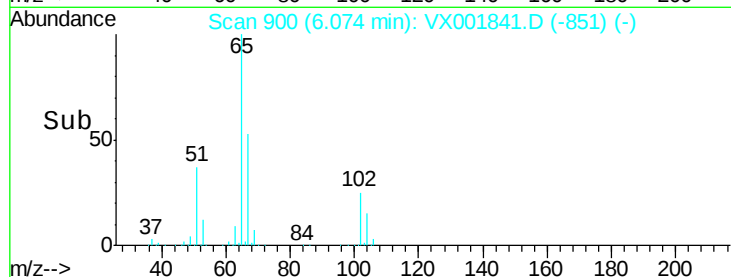
40000

20000

0

Time-->

6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX001841.D

Acq: 18 May 2018 22:01

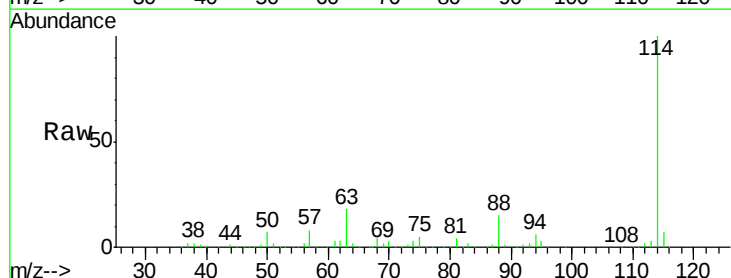
Tgt Ion: 114 Resp: 405656

Ion Ratio Lower Upper

114 100

63 18.4 0.0 37.0

88 15.2 0.0 29.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

6.87

200000

150000

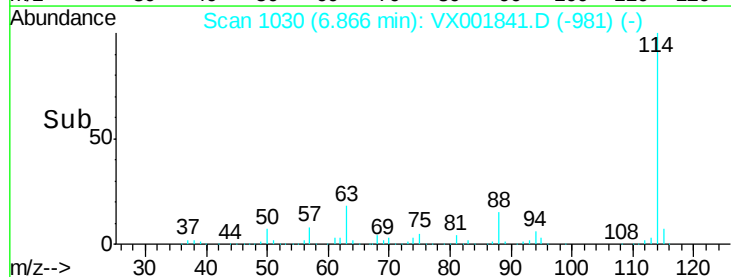
100000

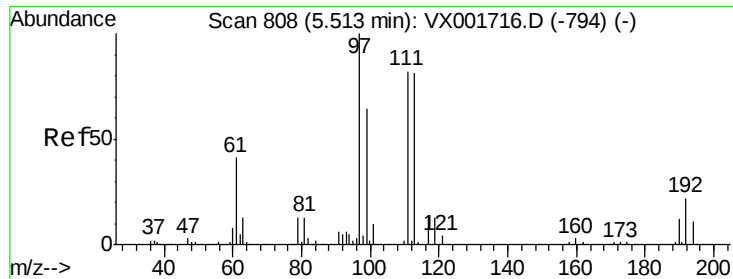
50000

0

Time-->

6.80 7.00 7.20





#35

Dibromofluoromethane

Concen: 55.17 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.01 min

Lab File: VX001841.D

Acq: 18 May 2018 22:01

Instrument :

MSVOA_X

ClientSampleId :

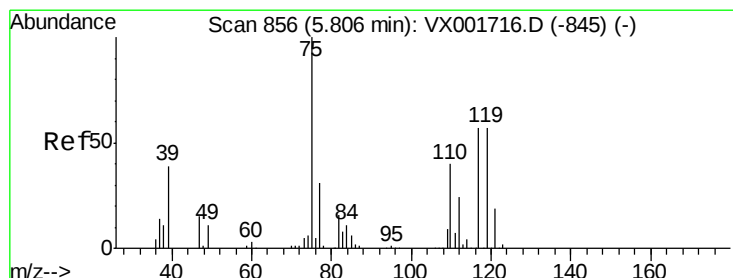
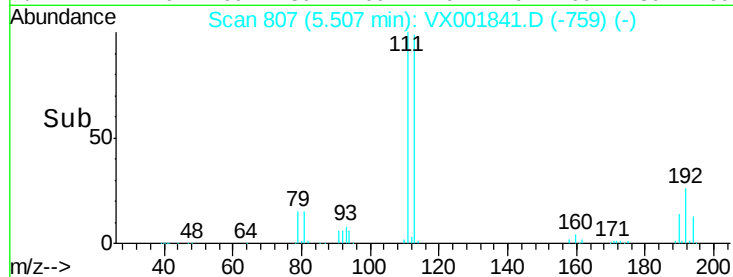
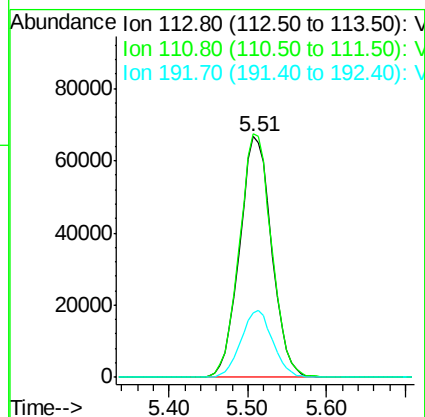
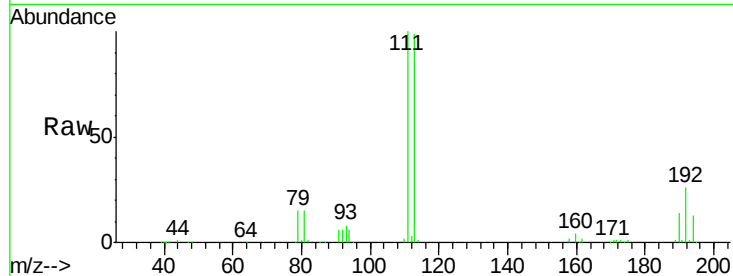
Tot Ion:113 Resp: 188857

Ion Ratio Lower Upper

113 100

111 101.5 82.0 123.0

192 27.4 21.6 32.4



#36

1,1-Dichloropropene

Concen: 3.52 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX001841.D

Acq: 18 May 2018 22:01

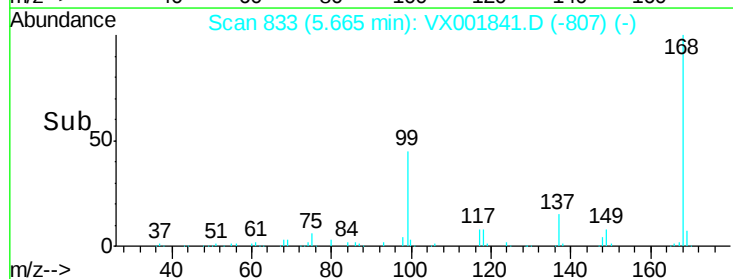
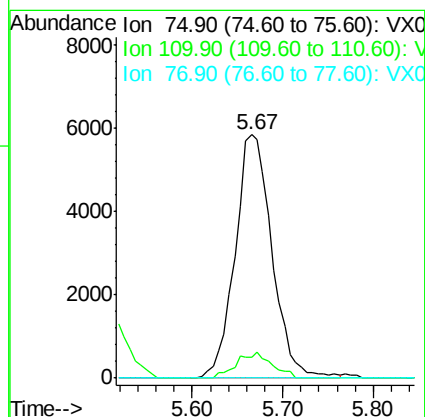
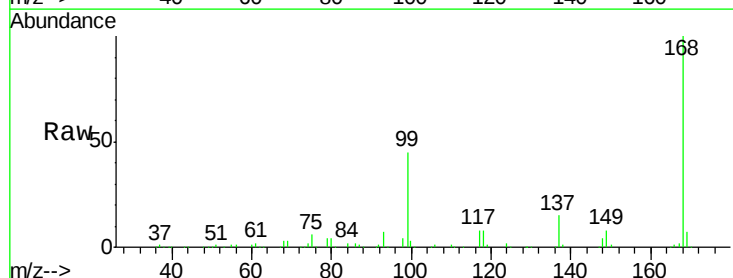
Tgt Ion: 75 Resp: 16457

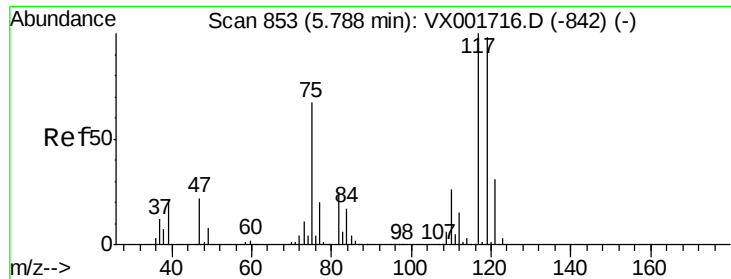
Ion Ratio Lower Upper

75 100

110 10.1 19.1 57.1#

77 0.0 24.6 37.0#





#38

Carbon Tetrachloride

Concen: 4.68 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX001841.D

Acq: 18 May 2018 22:01

Instrument :
MSVOA_X
ClientSampled :

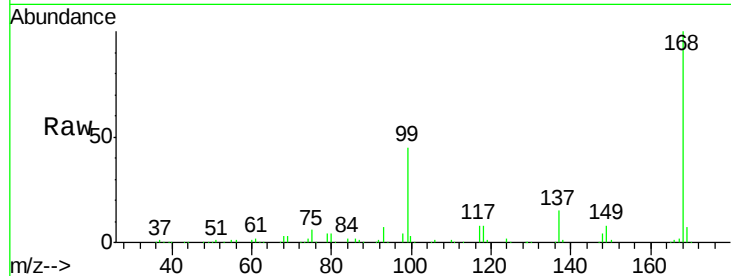
Tot Ion:117 Resp: 22885

Ion Ratio Lower Upper

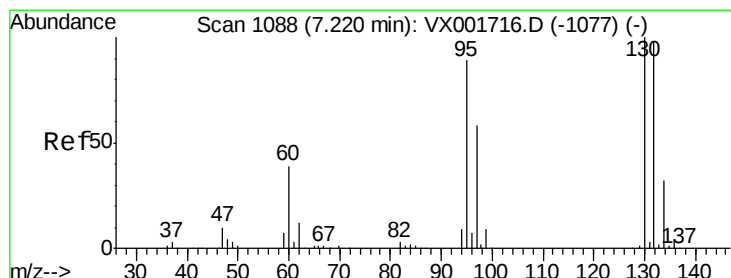
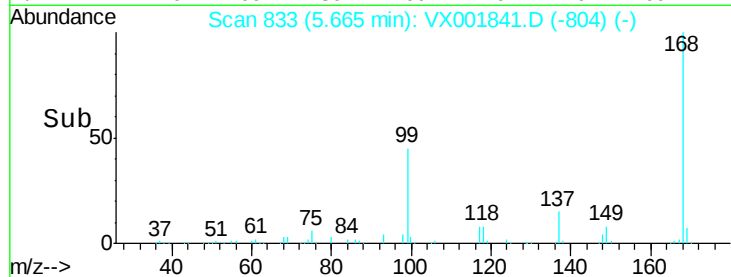
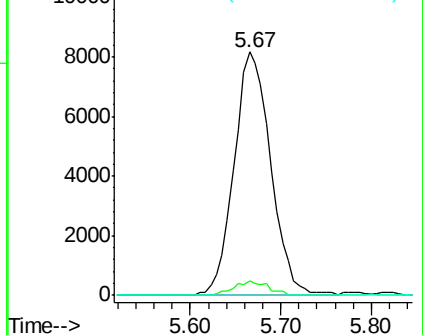
117 100

119 6.0 77.6 116.4#

121 0.0 24.6 36.8#



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



#44

Trichloroethene

Concen: 2.27 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. -0.00 min

Lab File: VX001841.D

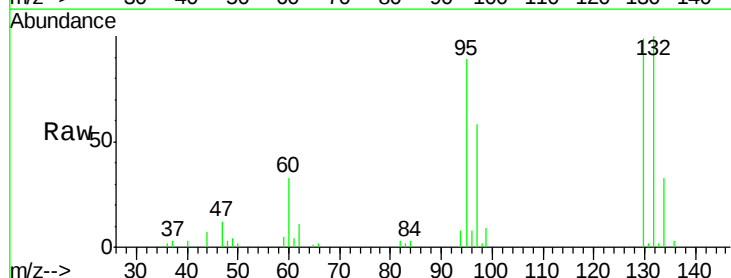
Acq: 18 May 2018 22:01

Tgt Ion:130 Resp: 9705

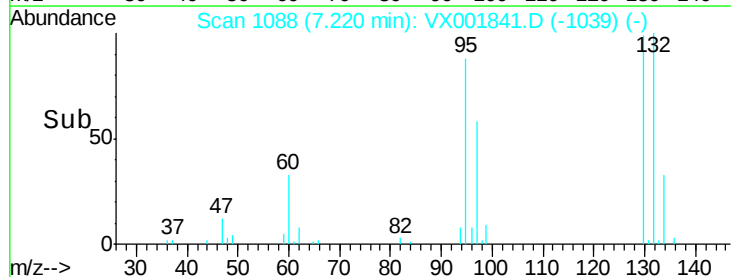
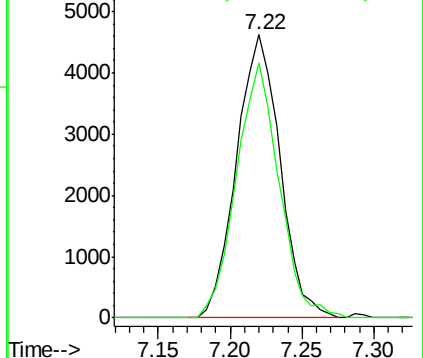
Ion Ratio Lower Upper

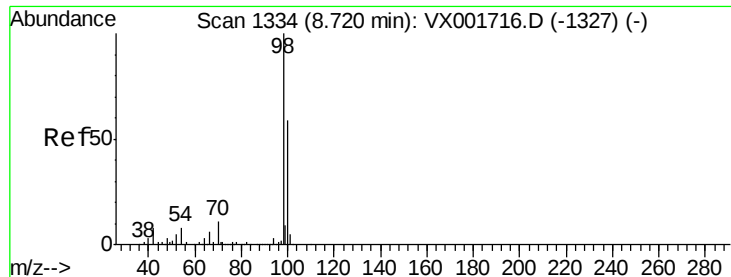
130 100

95 90.3 0.0 177.2



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VX0

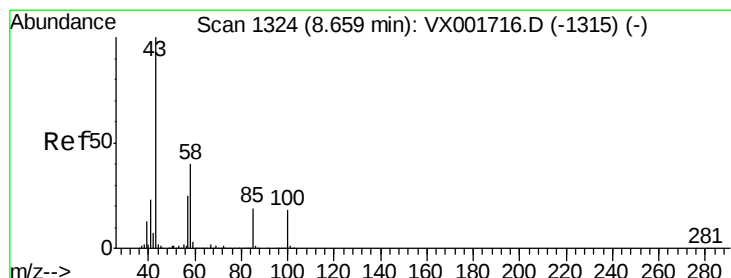
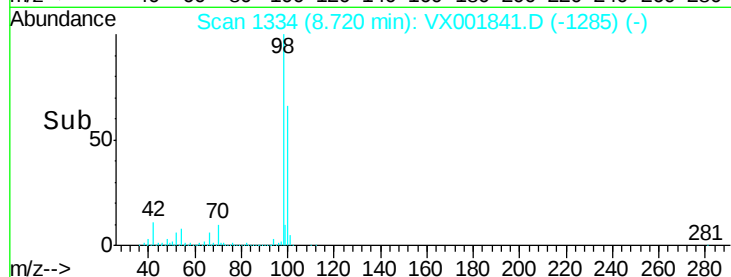
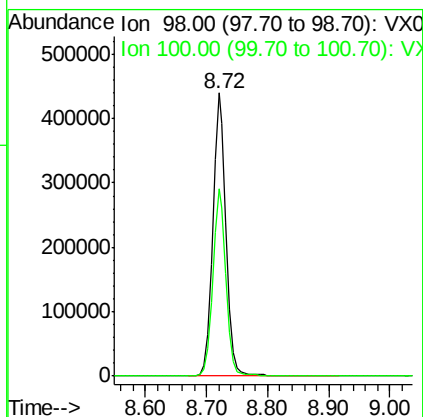
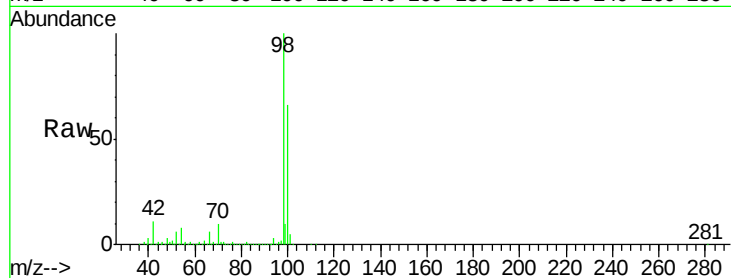




#50
Toluene-d8
Concen: 55.36 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX001841.D
Acq: 18 May 2018 22:01

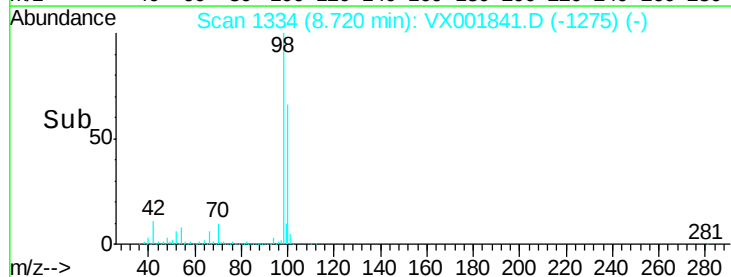
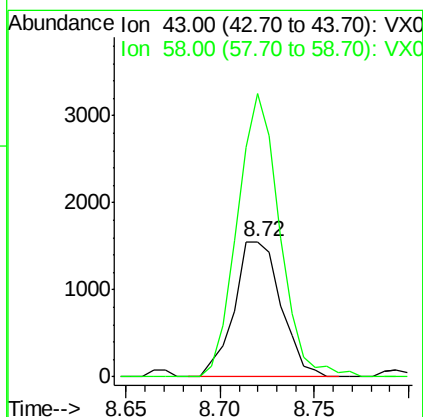
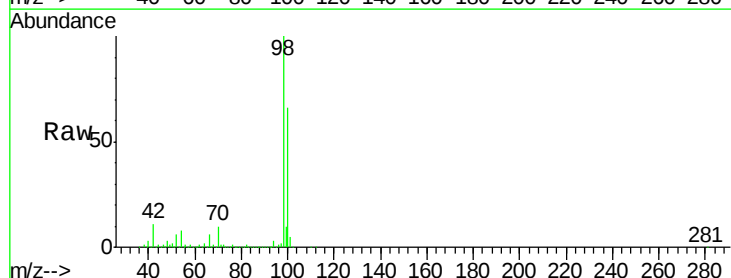
Instrument :
MSVOA_X
ClientSampleId :

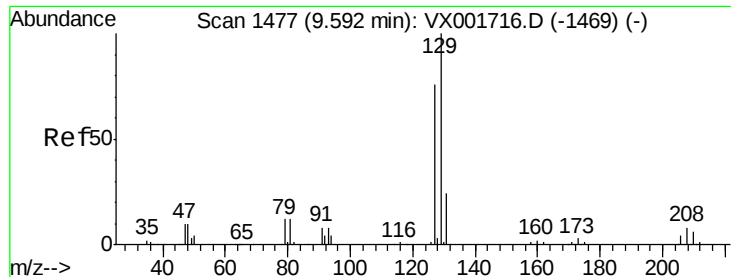
Tot Ion: 98 Resp: 678794
Ion Ratio Lower Upper
98 100
100 66.3 54.0 81.0



#51
4-Methyl-2-Pentanone
Concen: 0.55 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.06 min
Lab File: VX001841.D
Acq: 18 May 2018 22:01

Tgt Ion: 43 Resp: 2673
Ion Ratio Lower Upper
43 100
58 189.5 31.4 47.0#





#60

Dibromochloromethane

Concen: 0.89 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.25 min

Lab File: VX001841.D

Acq: 18 May 2018 22:01

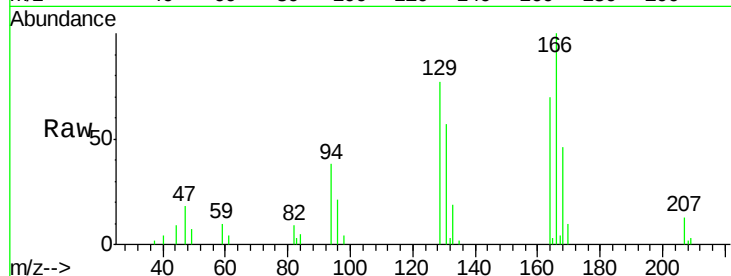
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:129 Resp: 3068

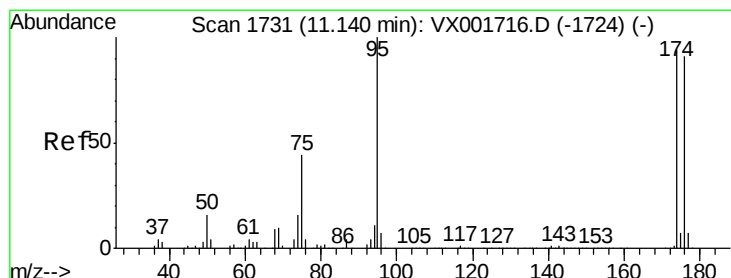
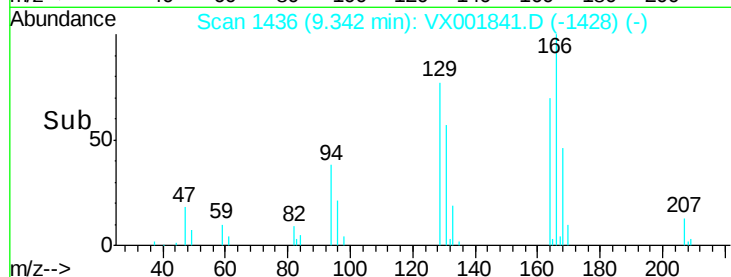
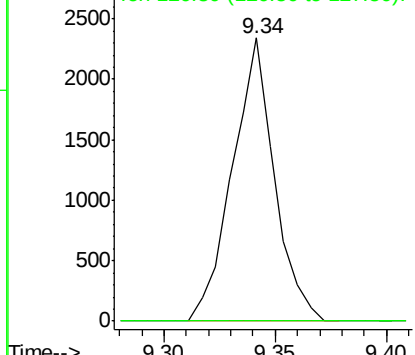
Ion Ratio Lower Upper

129 100

127 0.0 38.7 116.1#



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 43.95 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX001841.D

Acq: 18 May 2018 22:01

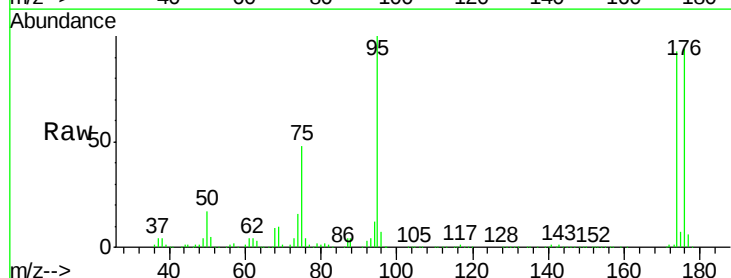
Tgt Ion: 95 Resp: 193999

Ion Ratio Lower Upper

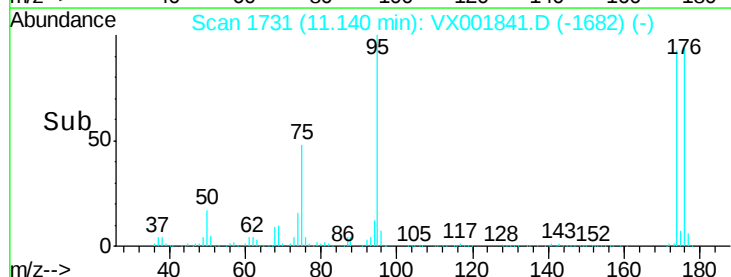
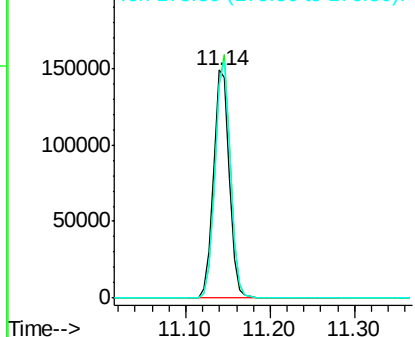
95 100

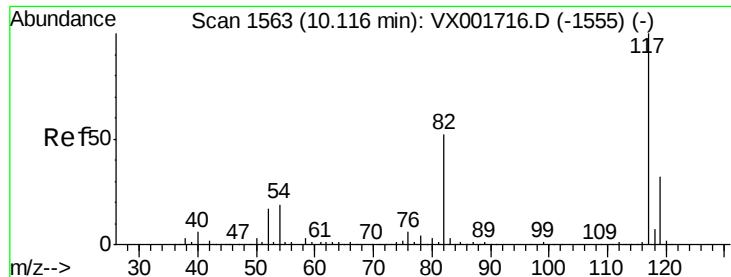
174 103.2 0.0 201.8

176 101.3 0.0 196.8



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

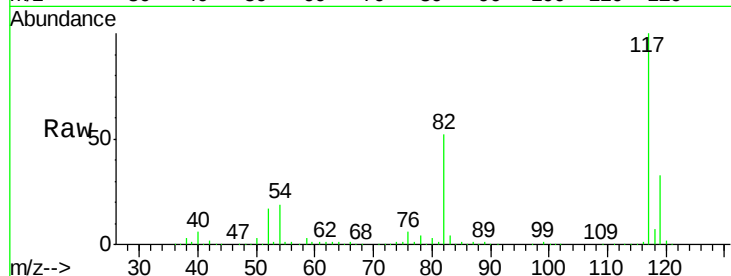




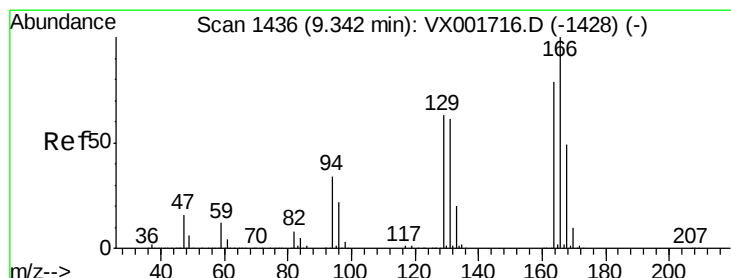
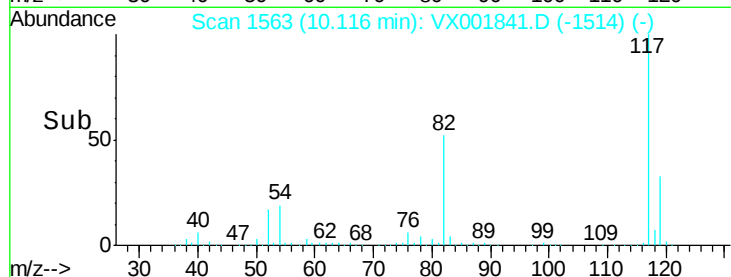
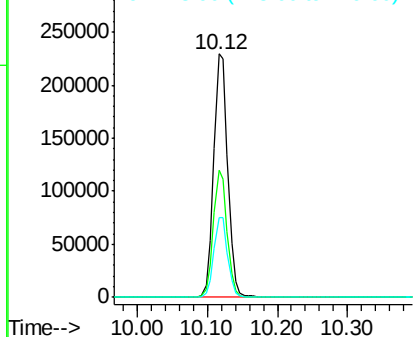
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX001841.D
Acq: 18 May 2018 22:01

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 320478
Ion Ratio Lower Upper
117 100
82 52.2 41.4 62.2
119 32.9 25.6 38.4

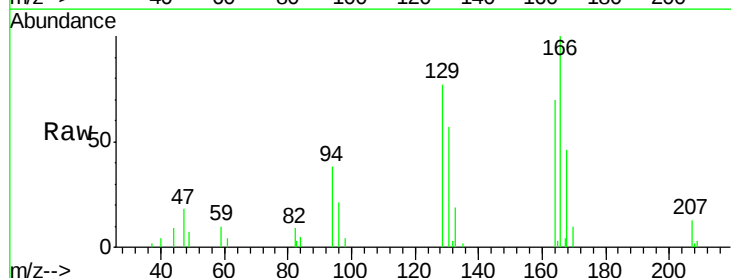


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

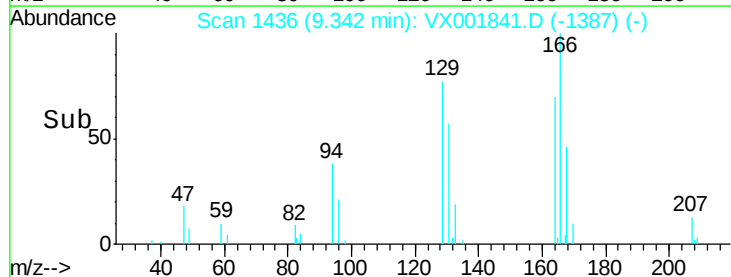
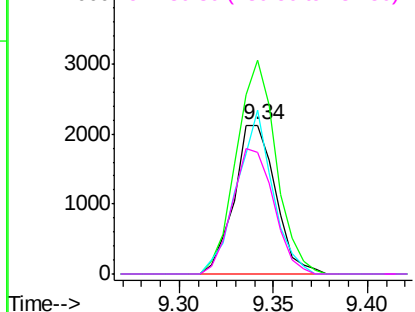


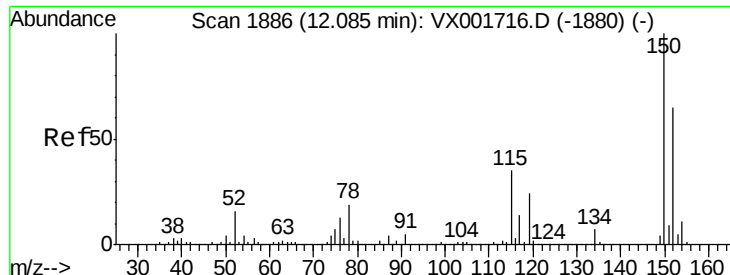
#64
Tetrachloroethene
Concen: 0.78 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. -0.00 min
Lab File: VX001841.D
Acq: 18 May 2018 22:01

Tgt Ion:164 Resp: 3239
Ion Ratio Lower Upper
164 100
166 143.5 101.8 152.8
129 110.0 63.8 95.6#
131 81.4 62.2 93.2



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX001841.D

Acq: 18 May 2018 22:01

Instrument :

MSVOA_X

ClientSampleId :

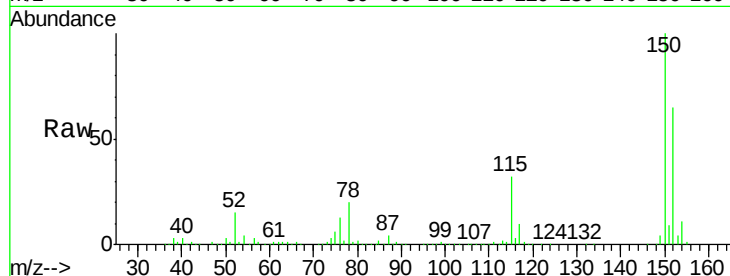
Tot Ion:152 Resp: 175057

Ion Ratio Lower Upper

152 100

115 51.6 37.4 112.2

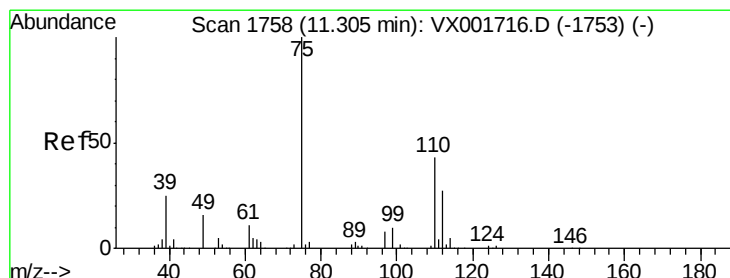
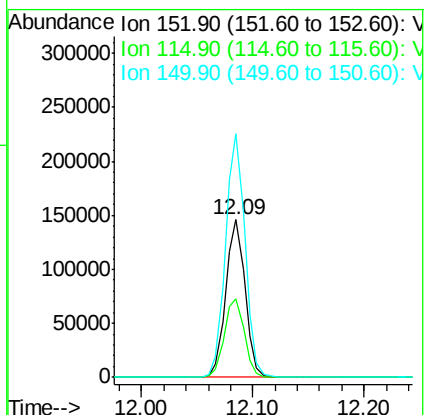
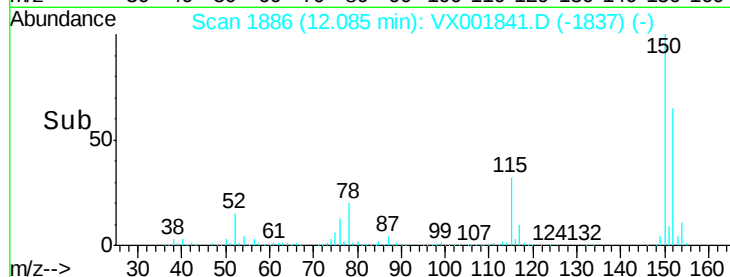
150 155.8 0.0 344.8



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: 27.44 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001841.D

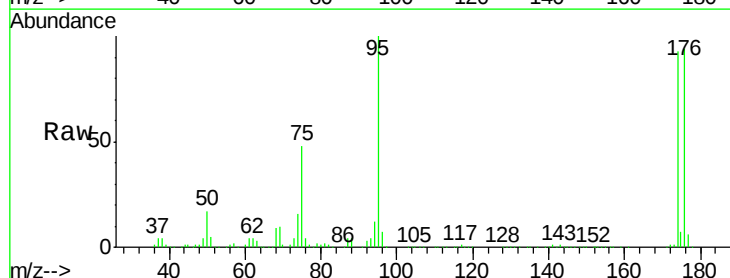
Acq: 18 May 2018 22:01

Tgt Ion: 75 Resp: 91337

Ion Ratio Lower Upper

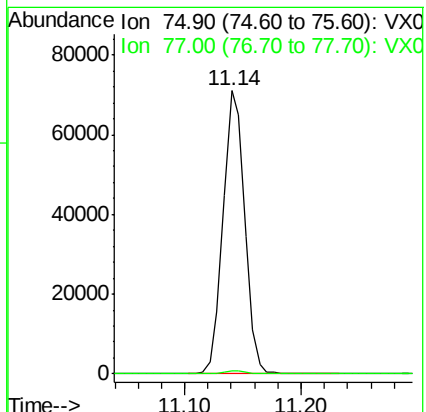
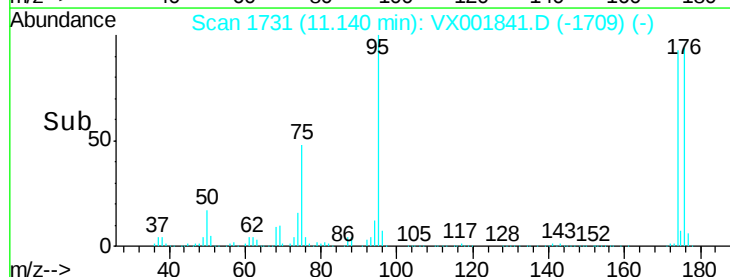
75 100

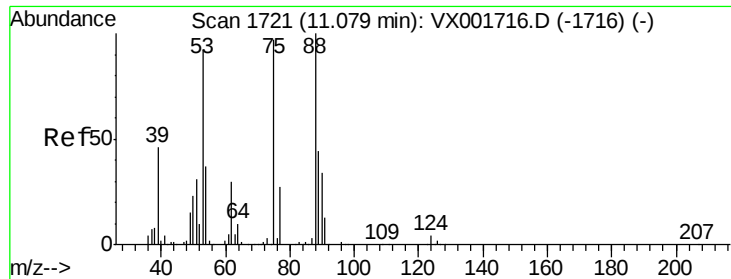
77 1.2 18.9 56.7#



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: 79.67 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX001841.D
 Acq: 18 May 2018 22:01

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 91337
 Ion Ratio Lower Upper
 75 100
 53 0.1 79.4 119.2#
 89 0.0 38.8 58.2#

