

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062918\
 Data File : VX003032.D
 Acq On : 29 Jun 2018 16:45
 Operator : JC/MD
 Sample : J3694-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 29 23:29:10 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	260016	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	361670	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	333659	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	185236	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	172402	47.97	ug/l	0.00
Spiked Amount			Recovery	=	95.94%	
35) Dibromofluoromethane	5.51	113	139786	48.81	ug/l	0.00
Spiked Amount			Recovery	=	97.62%	
50) Toluene-d8	8.72	98	507155	48.49	ug/l	0.00
Spiked Amount			Recovery	=	96.98%	
62) 4-Bromofluorobenzene	11.14	95	177669	44.05	ug/l	0.00
Spiked Amount			Recovery	=	88.10%	

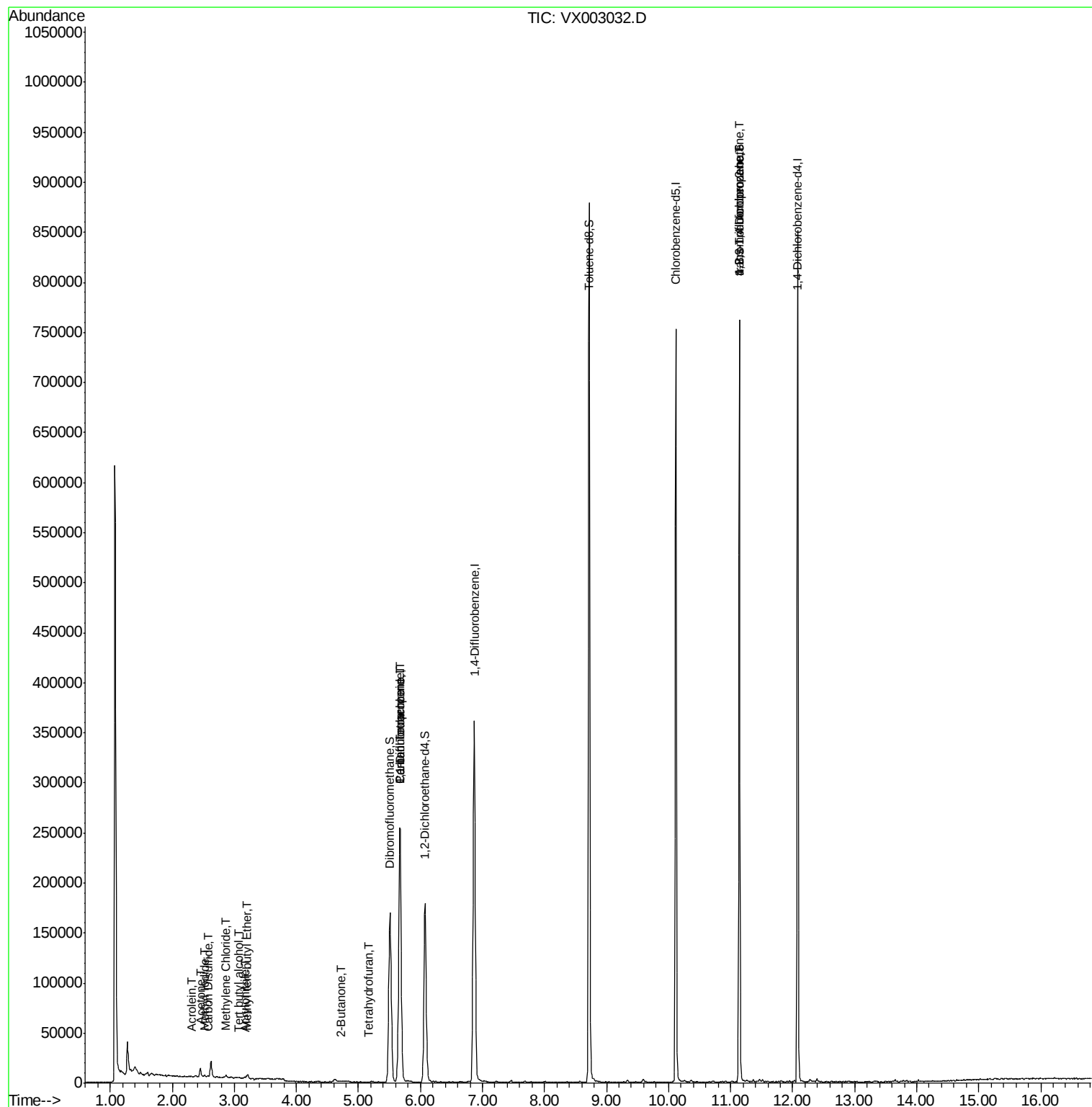
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	225	Below Cal		99
3) Chloromethane	1.32	50	1077	Below Cal		97
5) Bromomethane	1.65	94	1507	Below Cal		100
6) Chloroethane	1.73	64	373	Below Cal	#	50
10) Methyl Iodide	2.53	142	2230	6.90	ug/l	96
11) Tert butyl alcohol	3.07	59	667	0.93	ug/l	# 80
13) Acrolein	2.31	56	296	4.96	ug/l	# 14
15) Acrylonitrile	3.16	53	410	0.27	ug/l	# 69
16) Acetone	2.45	43	9002	6.05	ug/l	92
17) Carbon Disulfide	2.57	76	2138	0.31	ug/l	95
19) Methyl tert-butyl Ether	3.21	73	4160	0.45	ug/l	# 85
20) Methylene Chloride	2.86	84	859	0.30	ug/l	# 81
25) 2-Butanone	4.72	43	1073	0.49	ug/l	98
29) Tetrahydrofuran	5.17	42	429	0.30	ug/l	# 36
36) 1,1-Dichloropropene	5.67	75	17340	4.37	ug/l	# 50
38) Carbon Tetrachloride	5.67	117	22590	5.19	ug/l	# 15
76) 1,2,3-Trichloropropane	11.14	75	91785	27.36	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	91785	77.39	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: VX003032.D

Acq: 29 Jun 2018 16:45

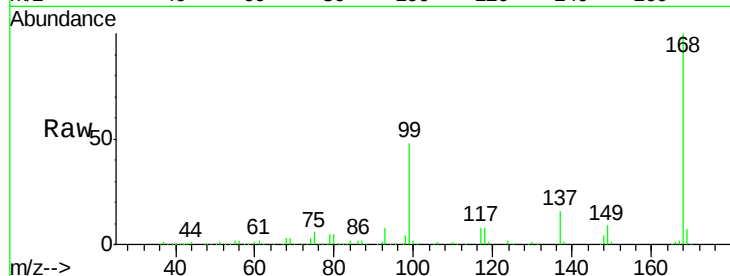
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 260016

Ion Ratio Lower Upper

168 100

99 47.6 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

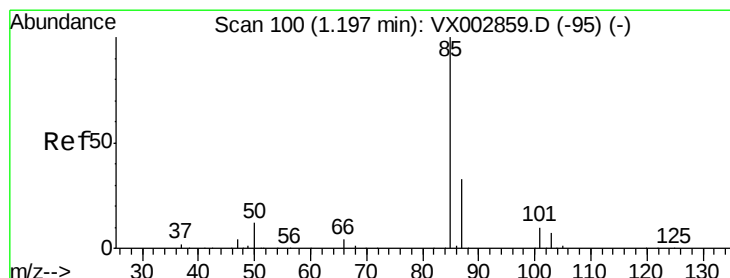
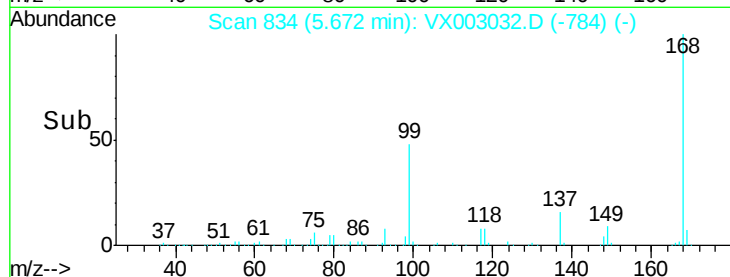
60000

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: VX003032.D

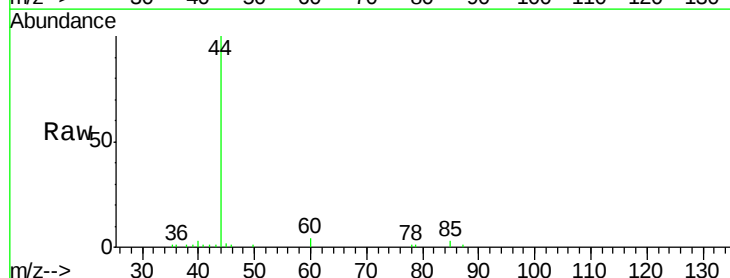
Acq: 29 Jun 2018 16:45

Tgt Ion: 85 Resp: 225

Ion Ratio Lower Upper

85 100

87 32.2 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

250

200

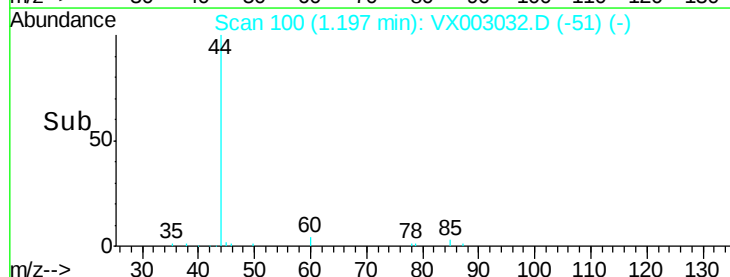
150

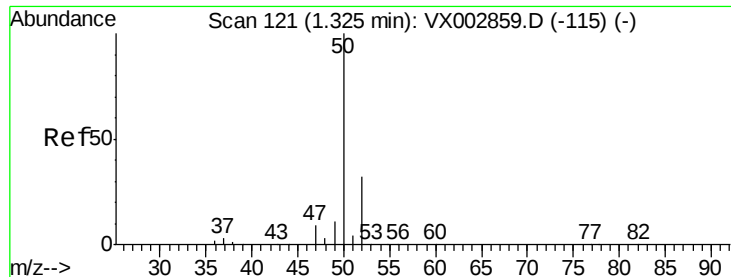
100

50

0

Time--> 1.18 1.20 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003032.D

Acq: 29 Jun 2018 16:45

Instrument :

MSVOA_X

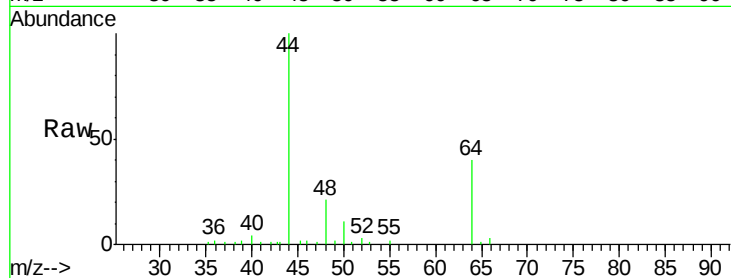
ClientSampled :

Tot Ion: 50 Resp: 1077

Ion Ratio Lower Upper

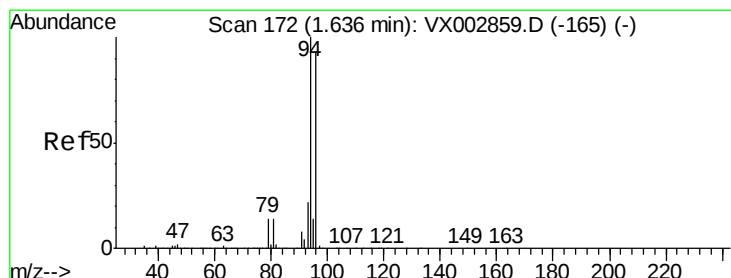
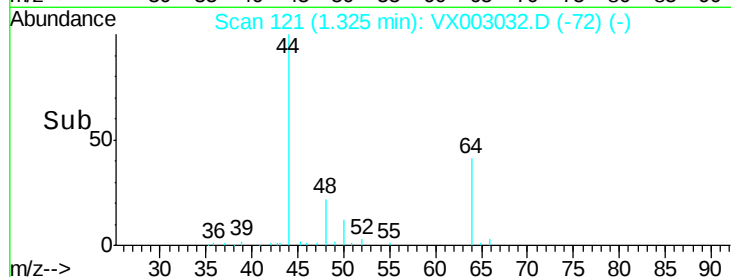
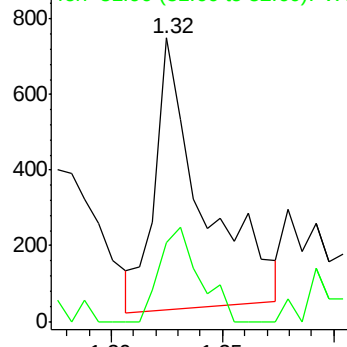
50 100

52 33.8 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# 174

Delta R.T. 0.01 min

Lab File: VX003032.D

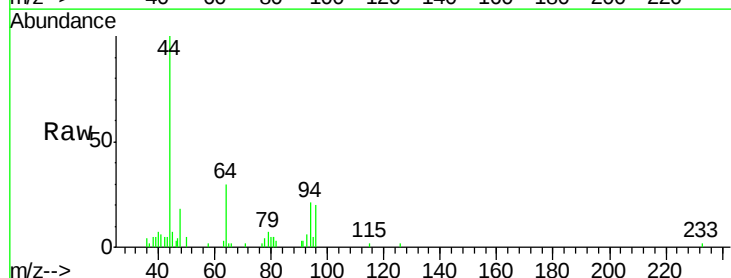
Acq: 29 Jun 2018 16:45

Tgt Ion: 94 Resp: 1507

Ion Ratio Lower Upper

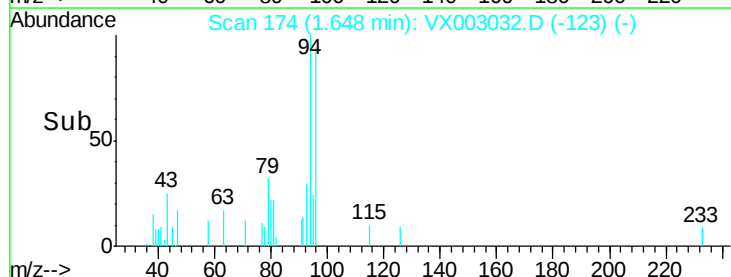
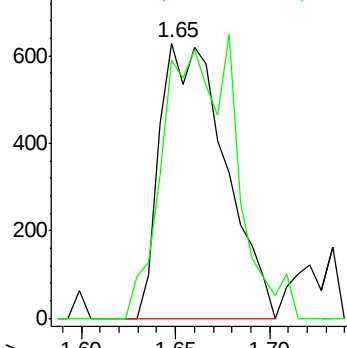
94 100

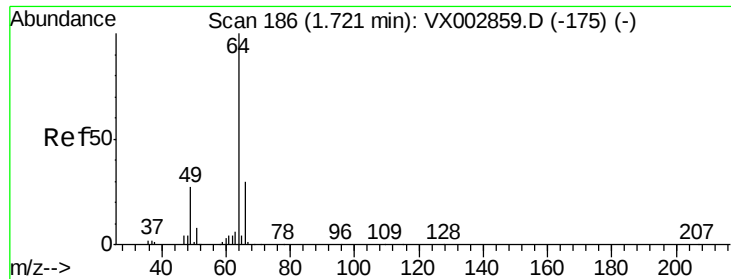
96 93.7 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 187

Delta R.T. 0.01 min

Lab File: VX003032.D

Acq: 29 Jun 2018 16:45

Instrument :

MSVOA_X

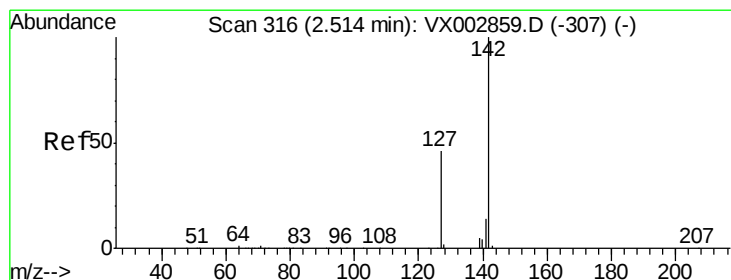
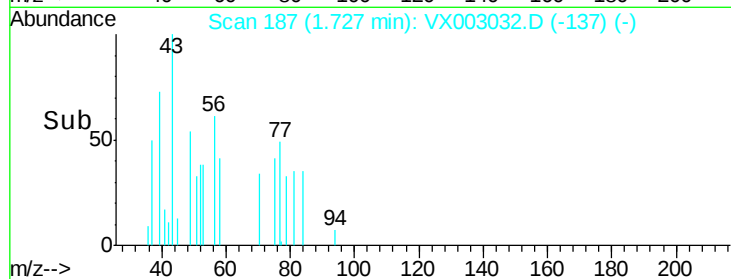
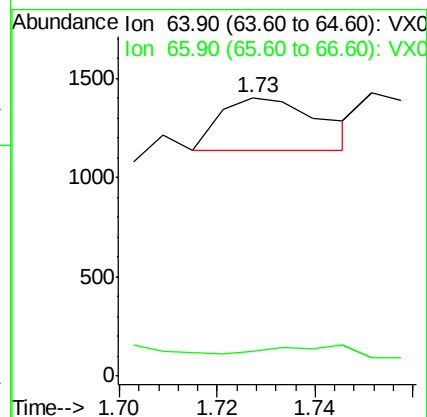
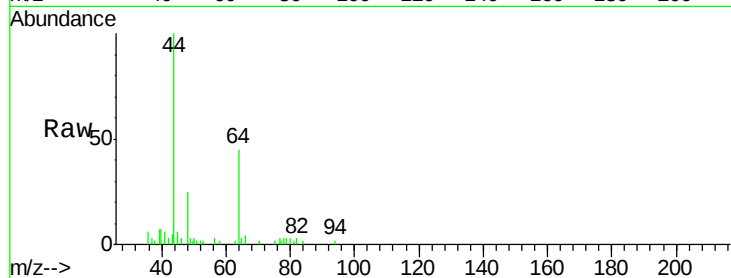
ClientSampleId :

Tot Ion: 64 Resp: 373

Ion Ratio Lower Upper

64 100

66 4.1 25.5 38.3#



#10

Methyl Iodide

Concen: 6.90 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX003032.D

Acq: 29 Jun 2018 16:45

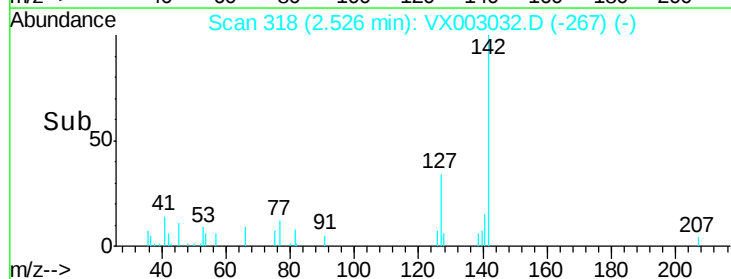
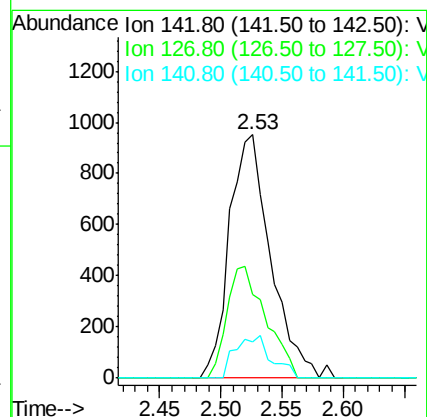
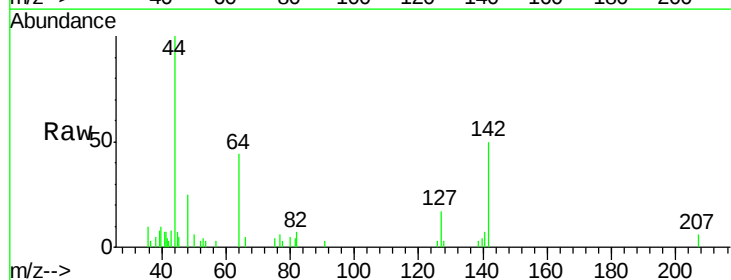
Tgt Ion: 142 Resp: 2230

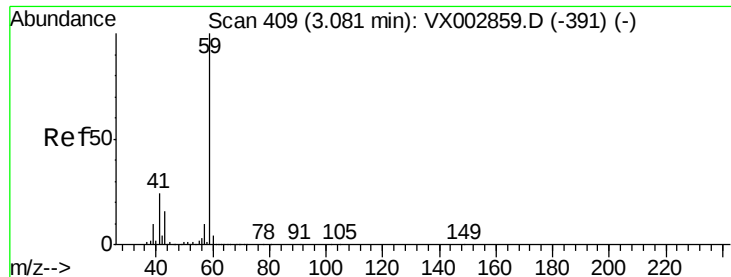
Ion Ratio Lower Upper

142 100

127 43.1 36.6 55.0

141 14.8 11.3 16.9



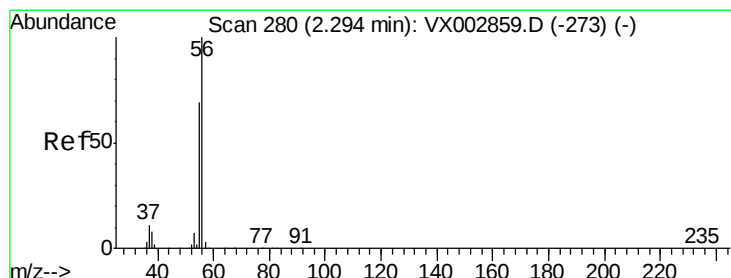
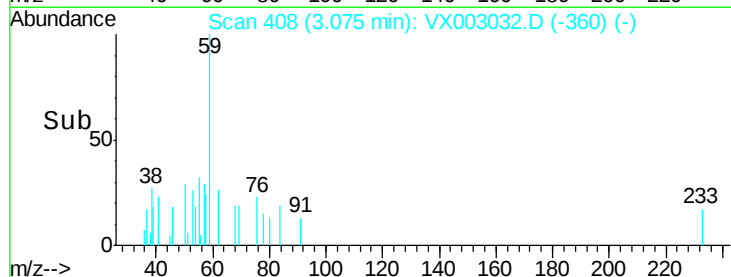
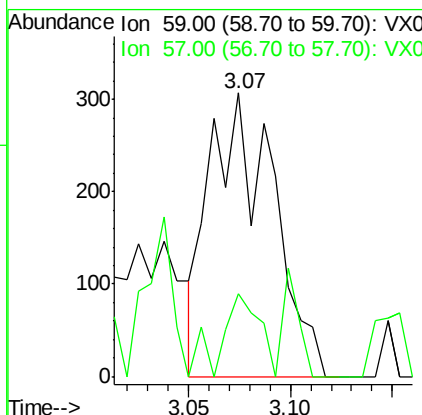
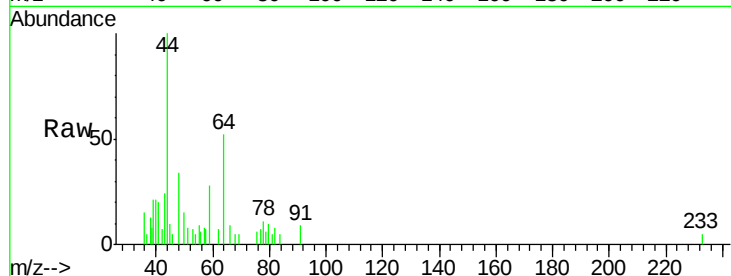


#11

Tert butvl alcohol
Concen: 0.93 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX003032.D
Acq: 29 Jun 2018 16:45

Instrument :
MSVOA_X
ClientSampled :

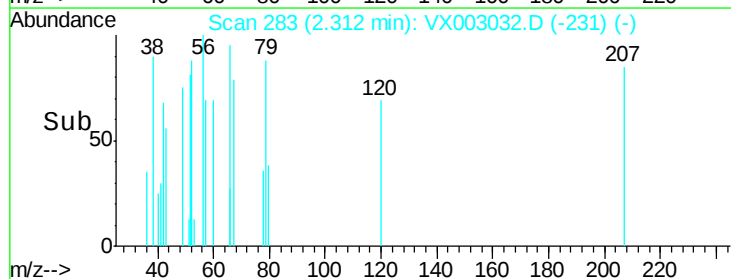
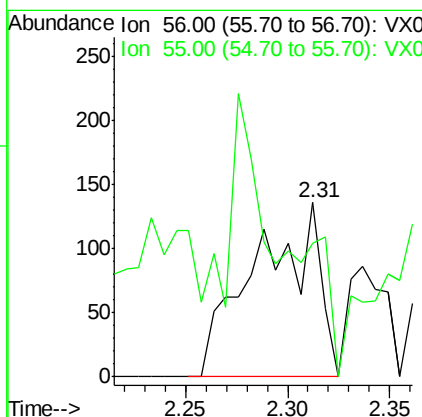
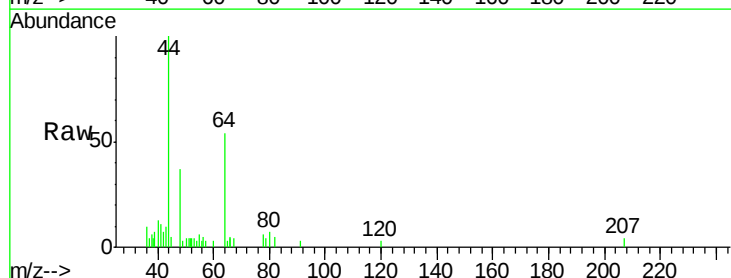
Tot Ion: 59 Resp: 667
Ion Ratio Lower Upper
59 100
57 17.5 8.2 12.2#

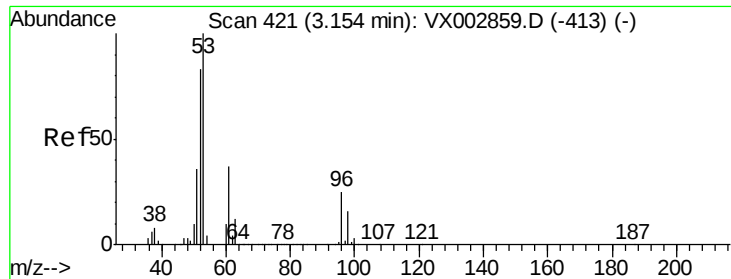


#13

Acrolein
Concen: 4.96 ug/l
RT: 2.31 min Scan# 283
Delta R.T. 0.02 min
Lab File: VX003032.D
Acq: 29 Jun 2018 16:45

Tgt Ion: 56 Resp: 296
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.4#





#15

Acrylonitrile

Concen: 0.27 ug/l

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX003032.D

Acq: 29 Jun 2018 16:45

Instrument :
MSVOA_X
ClientSampleId :

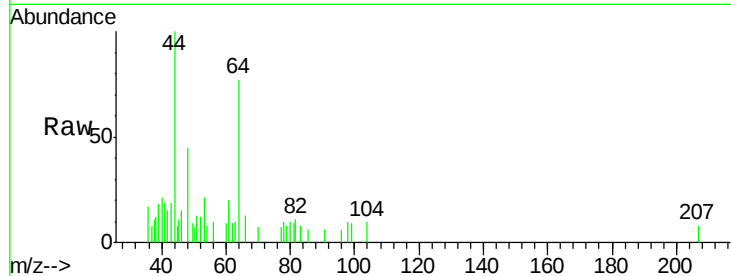
Tot Ion: 53 Resp: 410

Ion Ratio Lower Upper

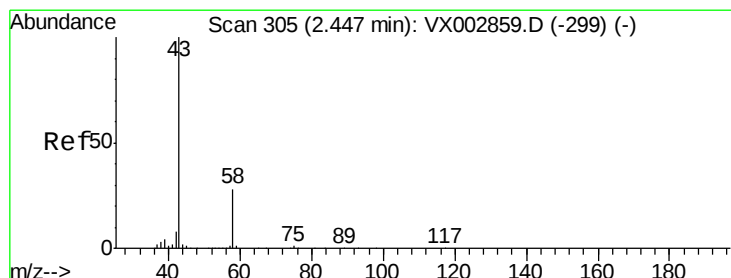
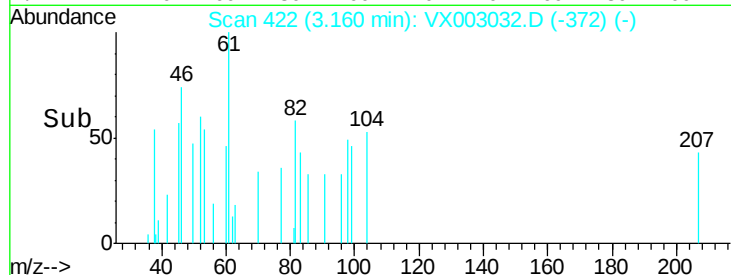
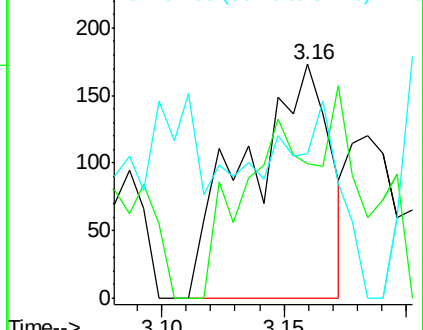
53 100

52 68.0 66.7 100.1

51 0.0 29.9 44.9#



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: 6.05 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX003032.D

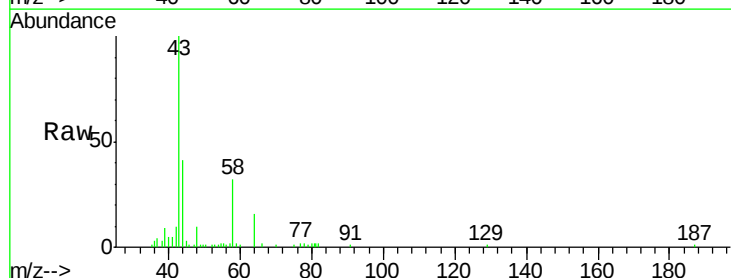
Acq: 29 Jun 2018 16:45

Tgt Ion: 43 Resp: 9002

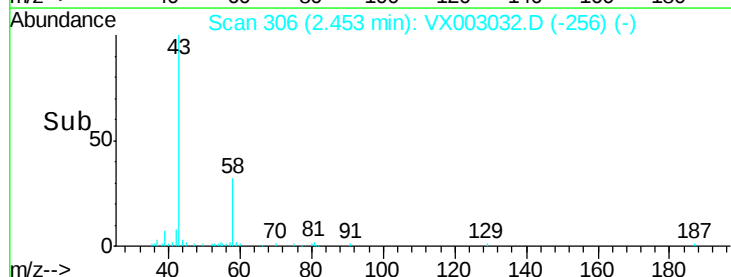
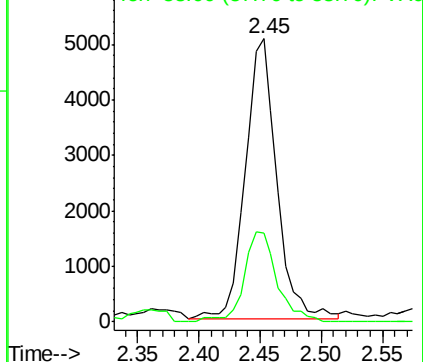
Ion Ratio Lower Upper

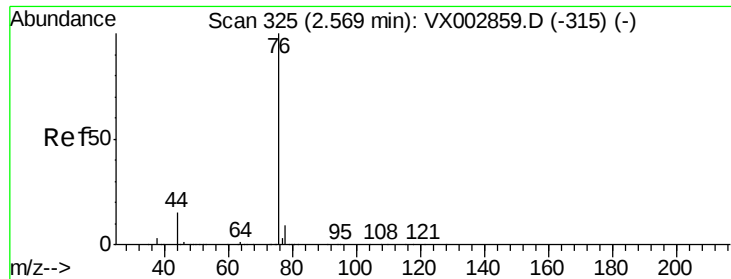
43 100

58 31.9 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

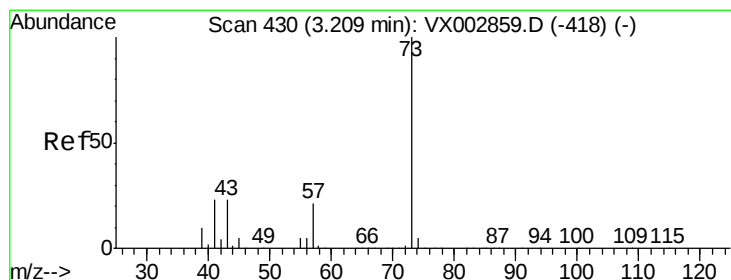
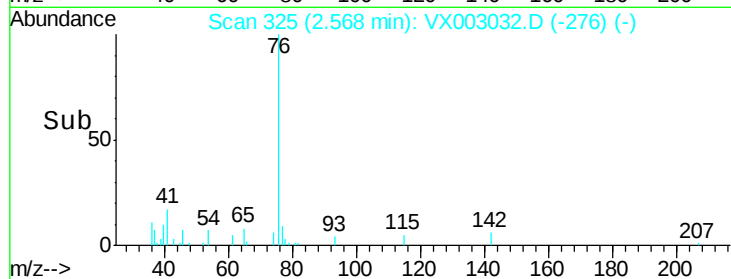
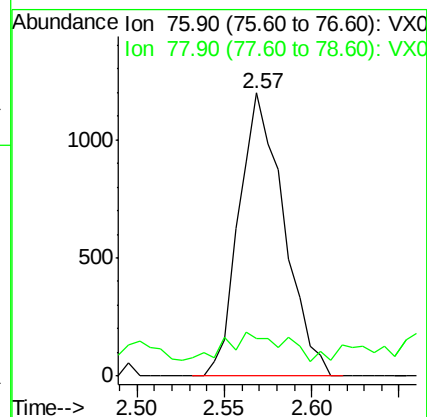
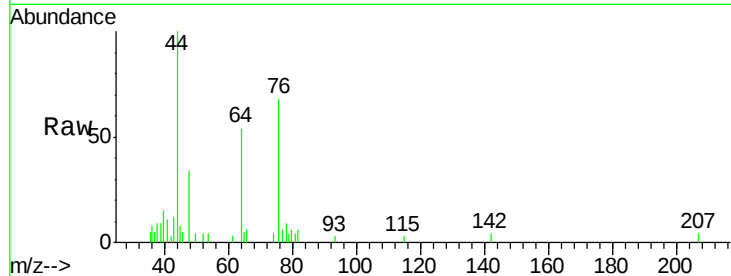




#17
Carbon Disulfide
Concen: 0.31 ug/l
RT: 2.57 min Scan# 325
Delta R.T. -0.00 min
Lab File: VX003032.D
Acq: 29 Jun 2018 16:45

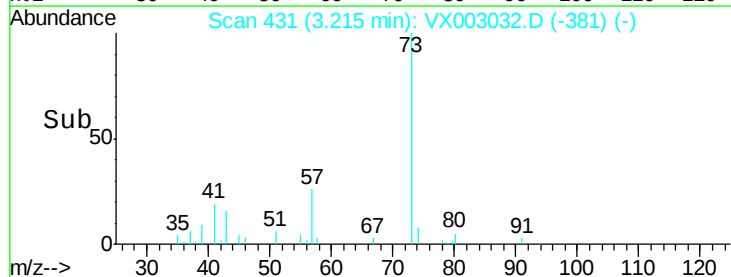
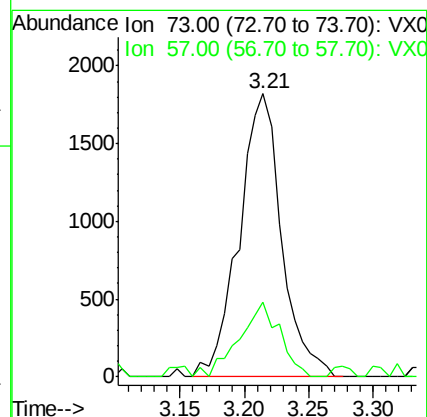
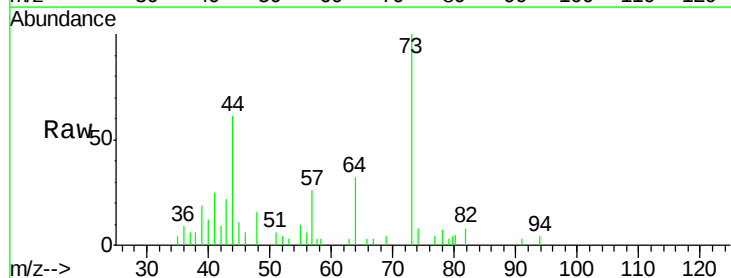
Instrument :
MSVOA_X
ClientSampled :

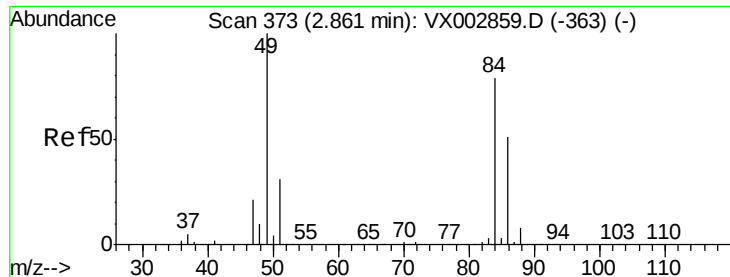
Tot Ion: 76 Resp: 2138
Ion Ratio Lower Upper
76 100
78 6.9 6.9 10.3



#19
Methyl tert-butyl Ether
Concen: 0.45 ug/l
RT: 3.21 min Scan# 431
Delta R.T. 0.01 min
Lab File: VX003032.D
Acq: 29 Jun 2018 16:45

Tgt Ion: 73 Resp: 4160
Ion Ratio Lower Upper
73 100
57 29.4 17.7 26.5#





#20

Methylene Chloride

Concen: 0.30 ug/l

RT: 2.86 min Scan# 373

Delta R.T. -0.00 min

Lab File: VX003032.D

Acq: 29 Jun 2018 16:45

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 84 Resp: 859

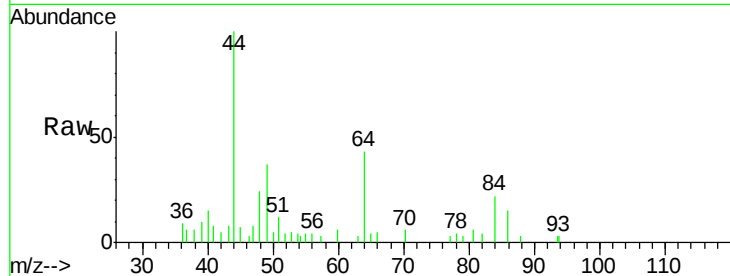
Ion Ratio Lower Upper

84 100

49 171.4 107.8 161.6#

51 37.7 32.8 49.2

86 68.0 52.5 78.7

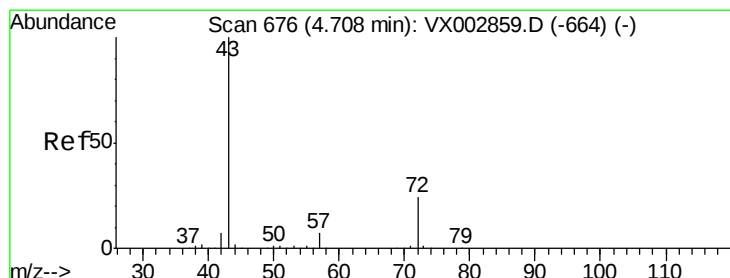
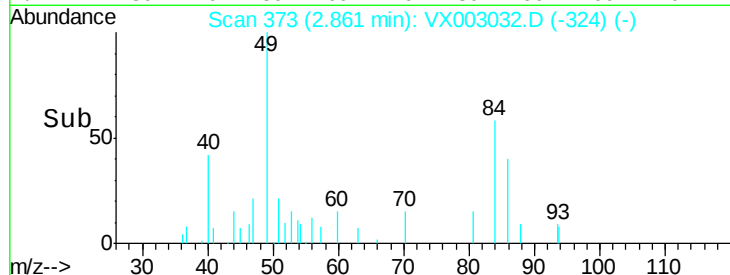
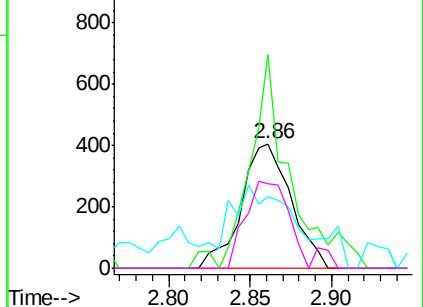


Abundance Ion 83.90 (83.60 to 84.60): VX0

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: 0.49 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX003032.D

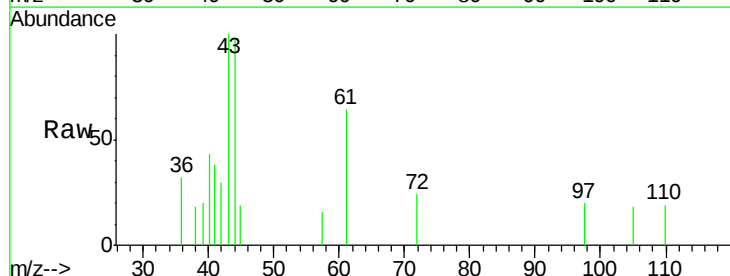
Acq: 29 Jun 2018 16:45

Tgt Ion: 43 Resp: 1073

Ion Ratio Lower Upper

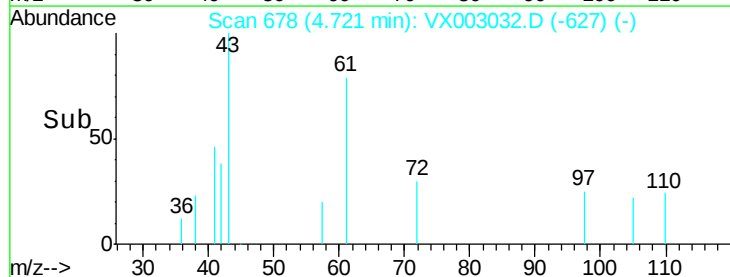
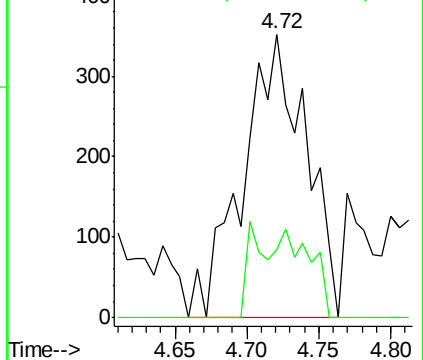
43 100

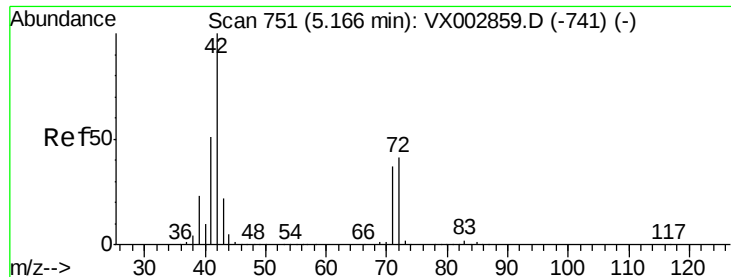
72 23.9 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

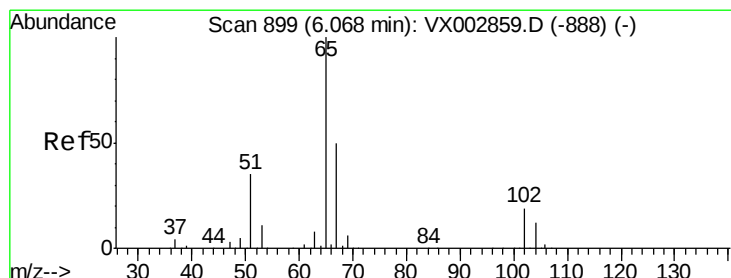
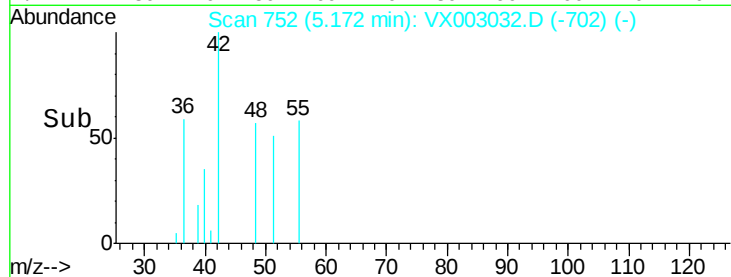
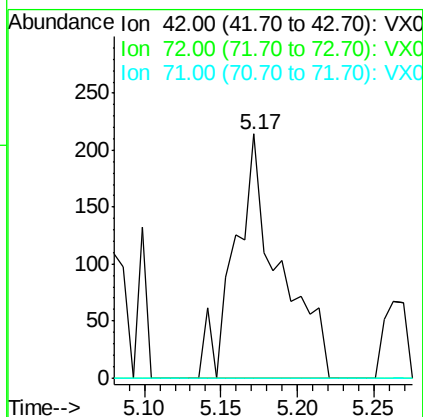
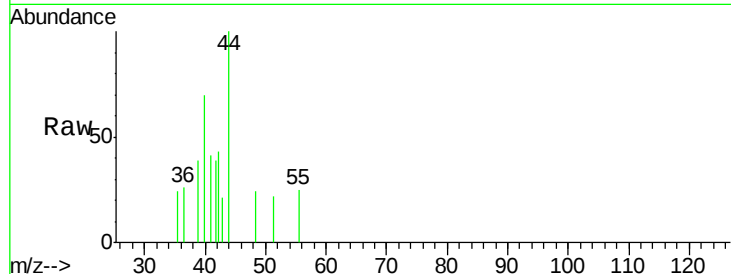




#29
Tetrahydrofuran
Concen: 0.30 ug/l
RT: 5.17 min Scan# 752
Delta R.T. 0.01 min
Lab File: VX003032.D
Acq: 29 Jun 2018 16:45

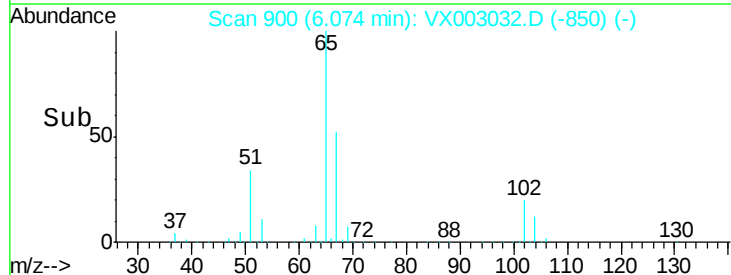
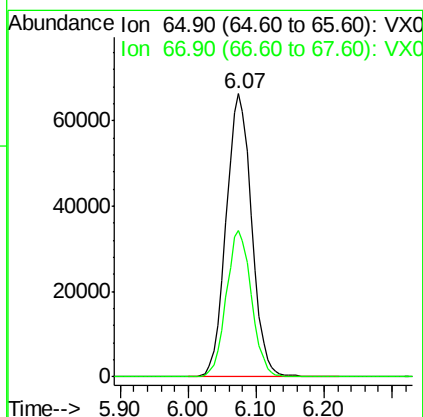
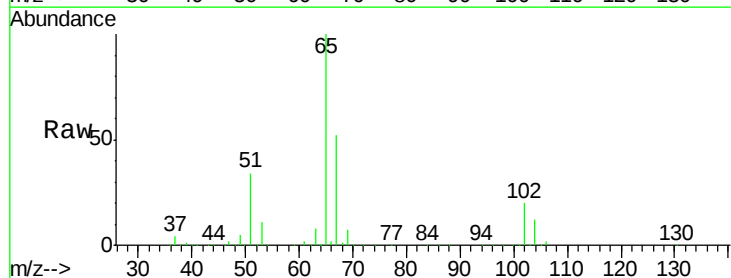
Instrument :
MSVOA_X
ClientSampled :

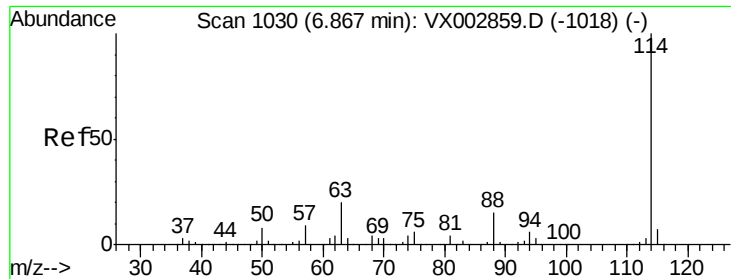
Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.0	48.0#
71	0.0	30.1	45.1#



#33
1,2-Dichloroethane-d4
Concen: 47.97 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.01 min
Lab File: VX003032.D
Acq: 29 Jun 2018 16:45

Tgt Ion	Ratio	Lower	Upper
65	100		
67	50.9	0.0	102.6

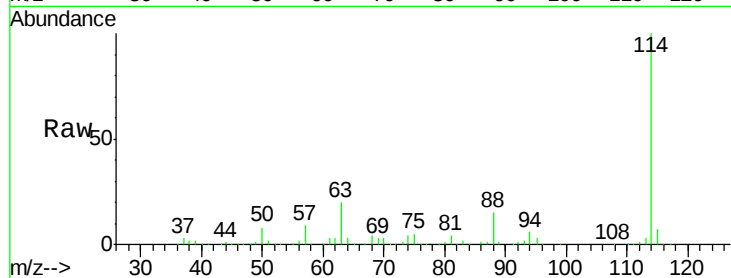




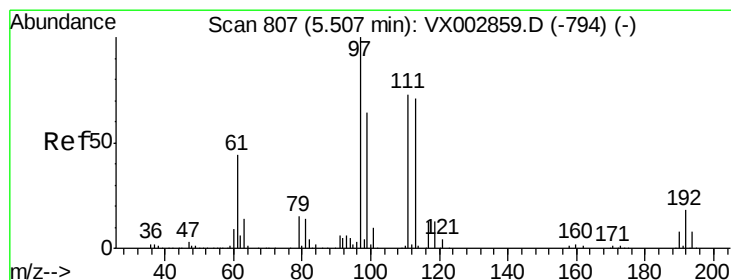
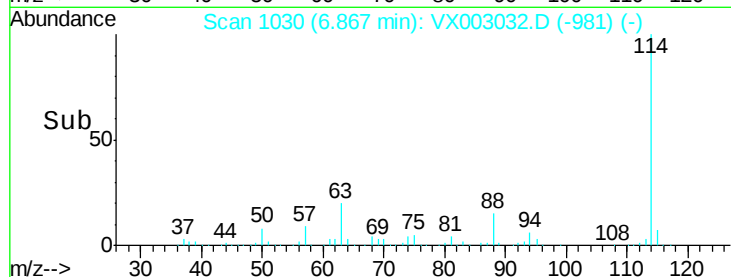
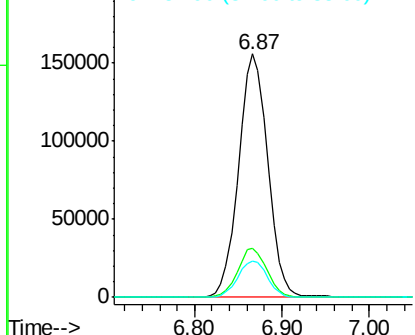
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX003032.D
 Acq: 29 Jun 2018 16:45

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:114 Resp: 361670
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 41.4
 88 14.6 0.0 30.0

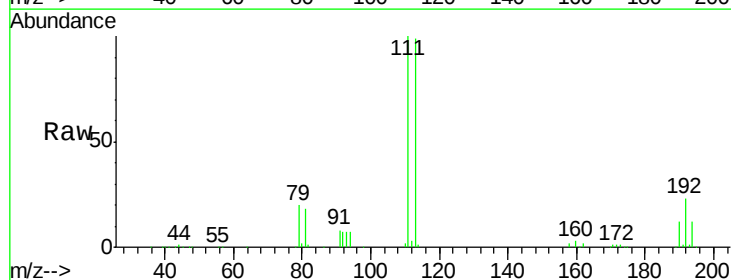


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX
 Ion 87.90 (87.60 to 88.60): VX

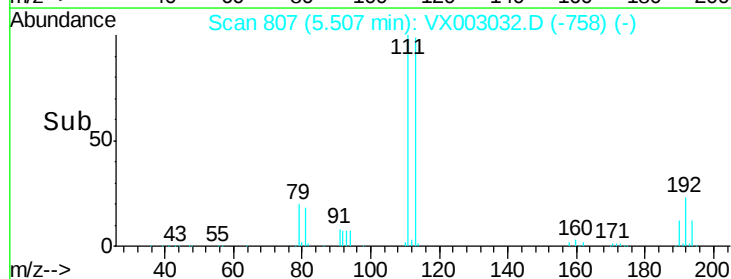
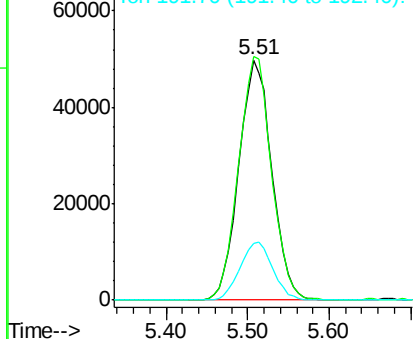


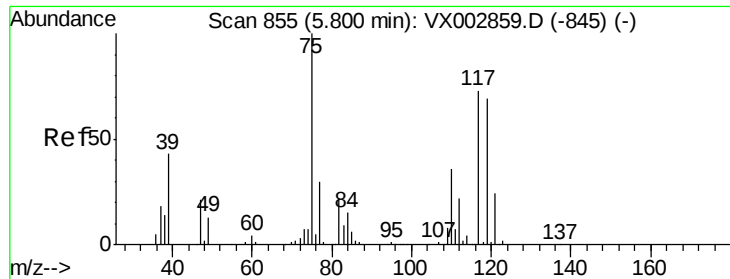
#35
 Dibromofluoromethane
 Concen: 48.81 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VX003032.D
 Acq: 29 Jun 2018 16:45

Tgt Ion:113 Resp: 139786
 Ion Ratio Lower Upper
 113 100
 111 101.2 81.4 122.0
 192 24.1 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

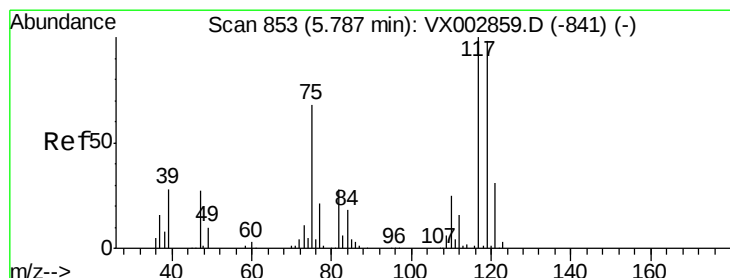
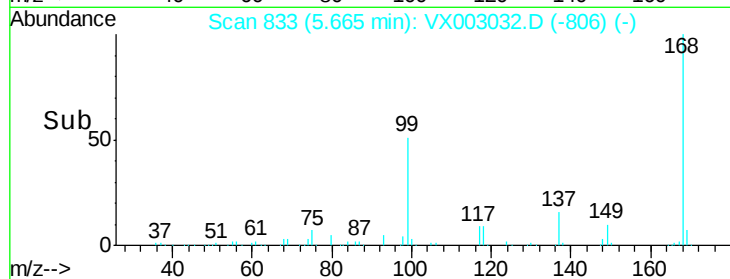
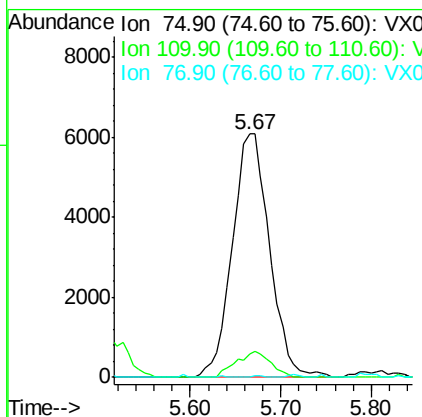
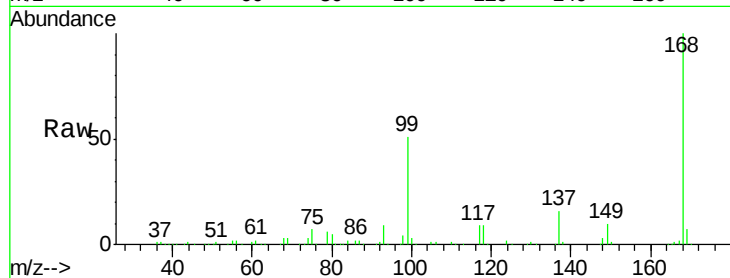




#36
 1,1-Dichloropropene
 Concen: 4.37 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX003032.D
 Acq: 29 Jun 2018 16:45

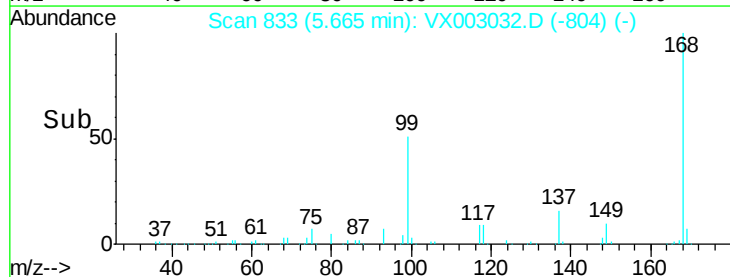
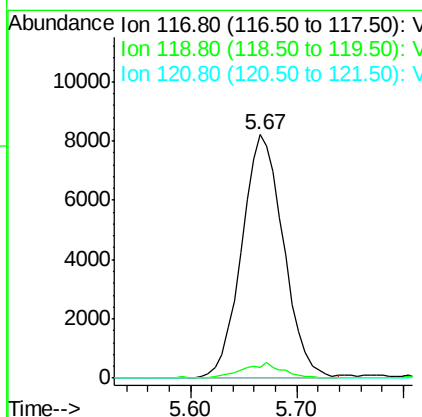
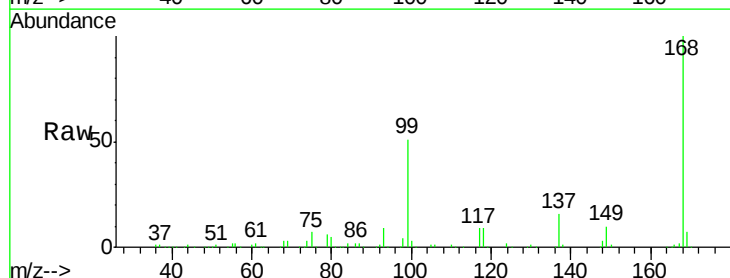
Instrument :
 MSVOA_X
 ClientSampleId :

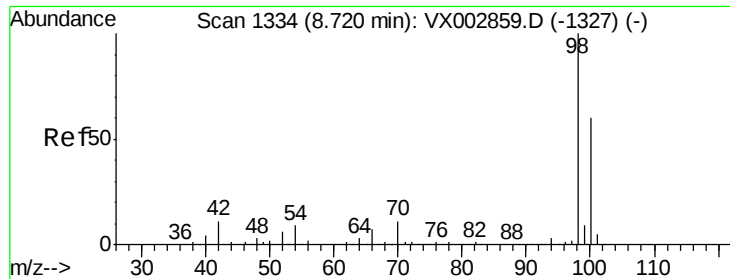
Tot Ion: 75 Resp: 17340
 Ion Ratio Lower Upper
 75 100
 110 9.8 18.1 54.4#
 77 0.2 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 5.19 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX003032.D
 Acq: 29 Jun 2018 16:45

Tgt Ion: 117 Resp: 22590
 Ion Ratio Lower Upper
 117 100
 119 4.4 77.4 116.0#
 121 0.0 24.4 36.6#





#50

Toluene-d8

Concen: 48.49 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003032.D

Acq: 29 Jun 2018 16:45

Instrument :

MSVOA_X

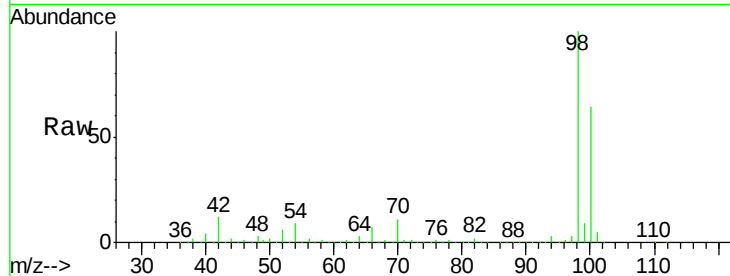
ClientSampleId :

Tot Ion: 98 Resp: 507155

Ion Ratio Lower Upper

98 100

100 63.9 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

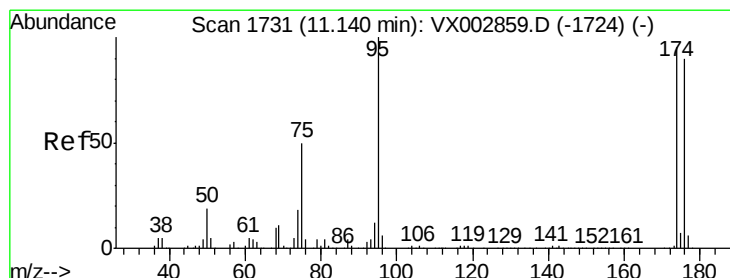
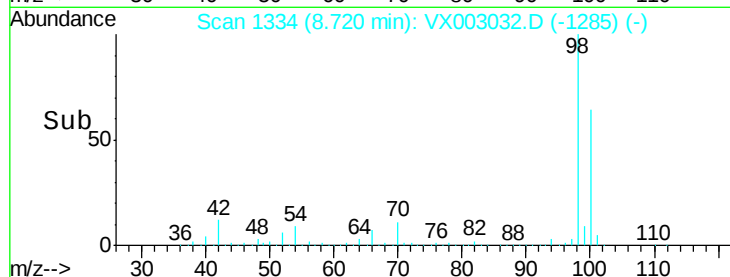
200000

100000

0

Time-->

8.60 8.70 8.80 8.90



#62

4-Bromofluorobenzene

Concen: 44.05 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003032.D

Acq: 29 Jun 2018 16:45

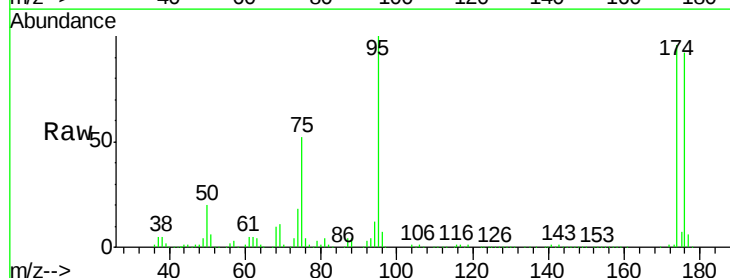
Tgt Ion: 95 Resp: 177669

Ion Ratio Lower Upper

95 100

174 97.3 0.0 187.4

176 93.4 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

200000

150000

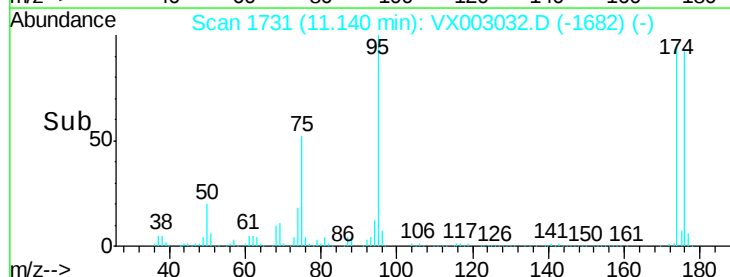
100000

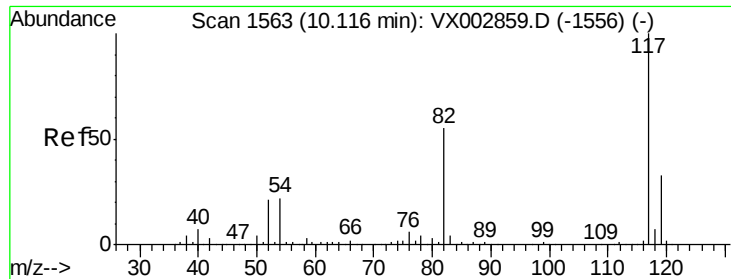
50000

0

Time-->

11.10 11.20





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX003032.D

Acq: 29 Jun 2018 16:45

Instrument :

MSVOA_X

ClientSampleId :

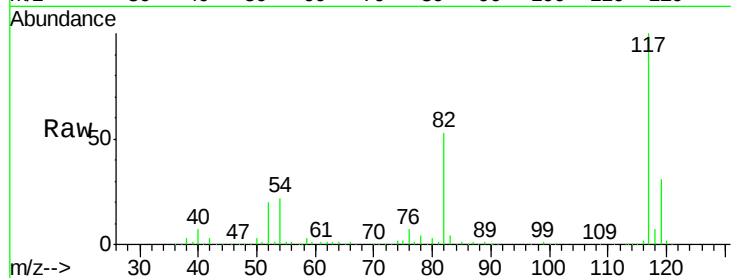
Tot Ion:117 Resp: 333659

Ion Ratio Lower Upper

117 100

82 53.3 45.0 67.4

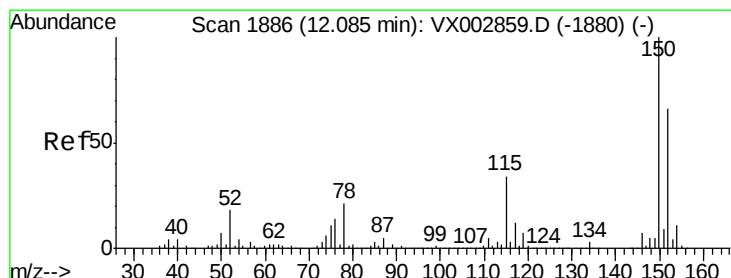
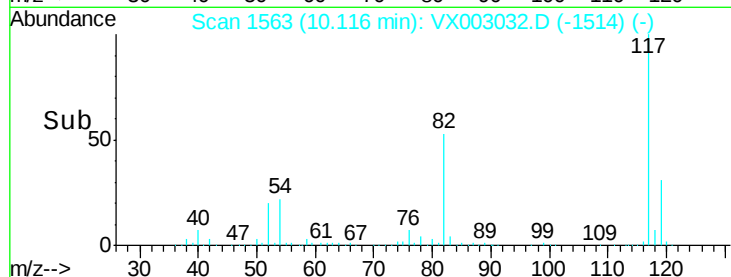
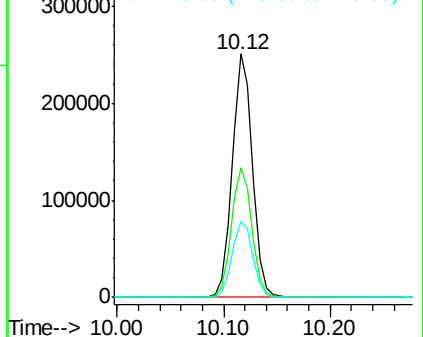
119 31.3 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX003032.D

Acq: 29 Jun 2018 16:45

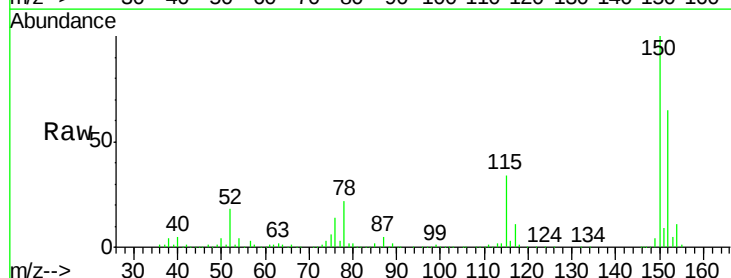
Tgt Ion:152 Resp: 185236

Ion Ratio Lower Upper

152 100

115 54.4 40.1 120.2

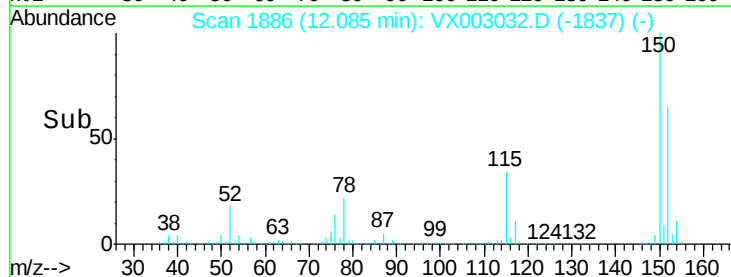
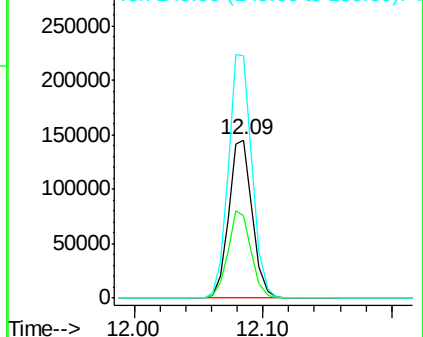
150 155.9 0.0 347.2

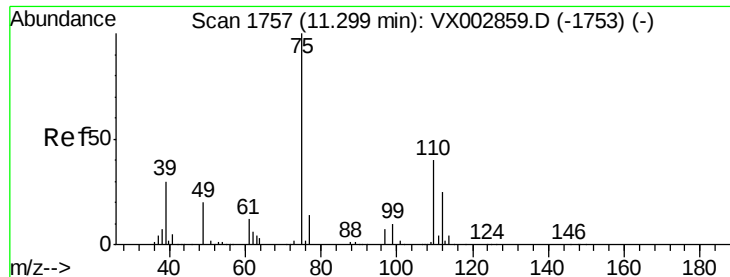


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

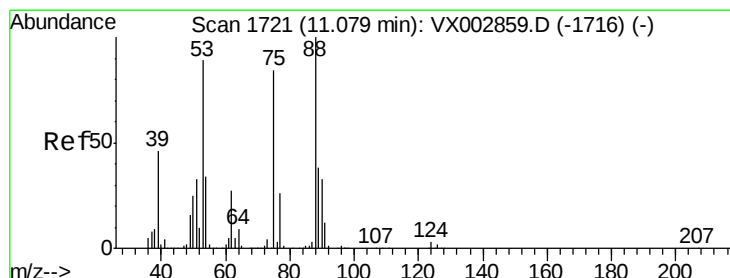
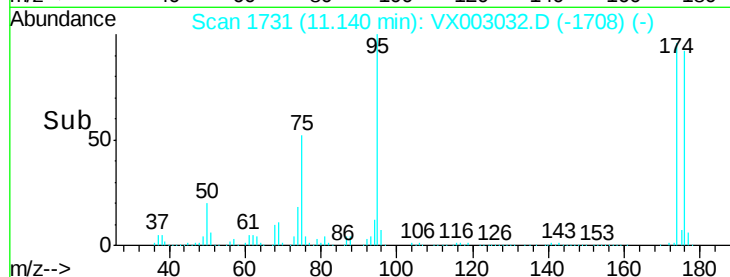
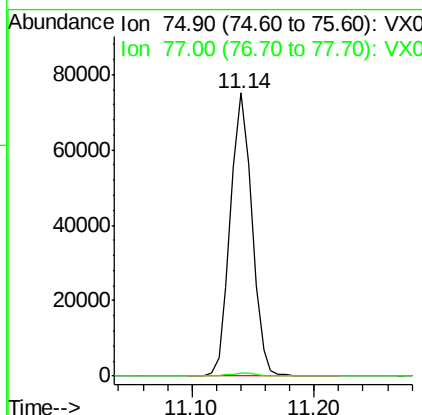
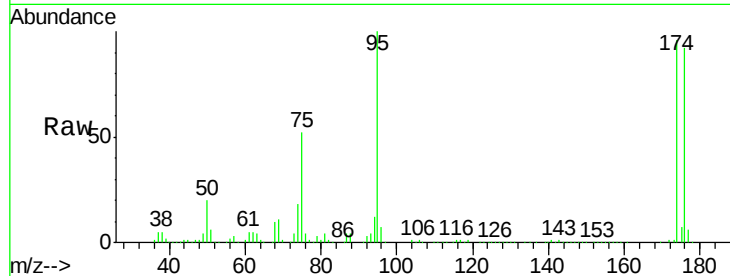




#76
 1,2,3-Trichloropropane
 Concen: 27.36 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX003032.D
 Acq: 29 Jun 2018 16:45

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 91785
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 77.39 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX003032.D
 Acq: 29 Jun 2018 16:45

Tgt Ion: 75 Resp: 91785
 Ion Ratio Lower Upper
 75 100
 53 0.1 86.8 130.2#
 89 0.0 38.2 57.2#

