

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062918\
 Data File : VX003046.D
 Acq On : 29 Jun 2018 23:23
 Operator : JC/MD
 Sample : VX0629WBL02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 30 02:32:33 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	257600	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	362054	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	345901	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	193415	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	171467	48.16	ug/l	0.00
Spiked Amount			Recovery	=	96.32%	
35) Dibromofluoromethane	5.51	113	141096	49.21	ug/l	0.00
Spiked Amount			Recovery	=	98.42%	
50) Toluene-d8	8.72	98	506274	48.35	ug/l	0.00
Spiked Amount			Recovery	=	96.70%	
62) 4-Bromofluorobenzene	11.14	95	182530	45.20	ug/l	0.00
Spiked Amount			Recovery	=	90.40%	

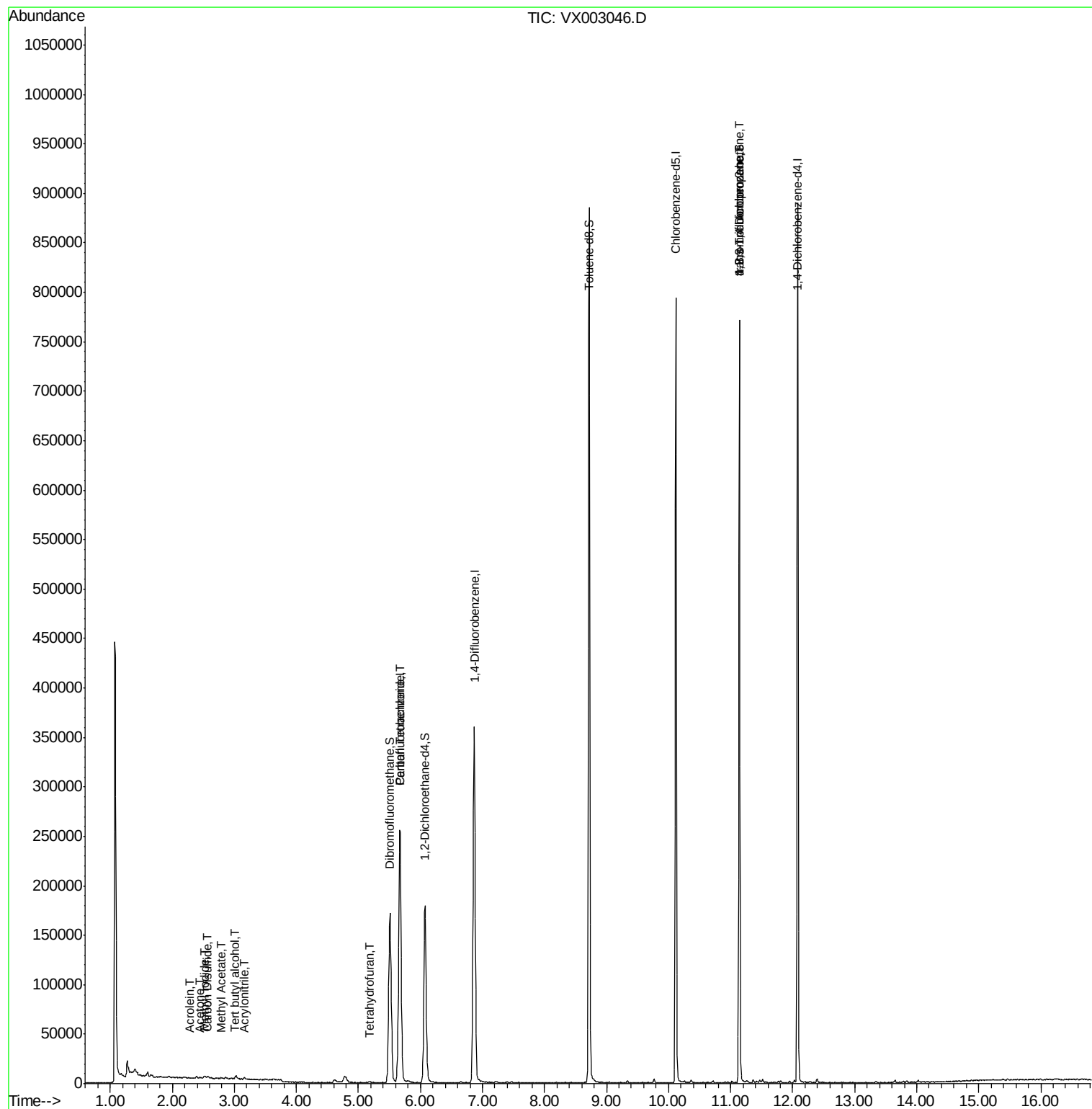
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	282	Below Cal		98
3) Chloromethane	1.32	50	579	Below Cal		92
5) Bromomethane	1.65	94	1814	Below Cal		96
6) Chloroethane	1.72	64	332	Below Cal	#	68
10) Methyl Iodide	2.52	142	3415	7.26	ug/l #	96
11) Tert butyl alcohol	3.01	59	1670	2.35	ug/l #	84
13) Acrolein	2.29	56	341	5.08	ug/l #	60
15) Acrylonitrile	3.16	53	727	0.48	ug/l #	79
16) Acetone	2.45	43	1235	0.84	ug/l	96
17) Carbon Disulfide	2.57	76	1970	0.29	ug/l #	63
18) Methyl Acetate	2.78	43	847	0.21	ug/l #	74
29) Tetrahydrofuran	5.18	42	855	0.61	ug/l #	42
38) Carbon Tetrachloride	5.67	117	23542	5.40	ug/l #	16
76) 1,2,3-Trichloropropane	11.14	75	93578	26.71	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	93578	75.65	ug/l #	7

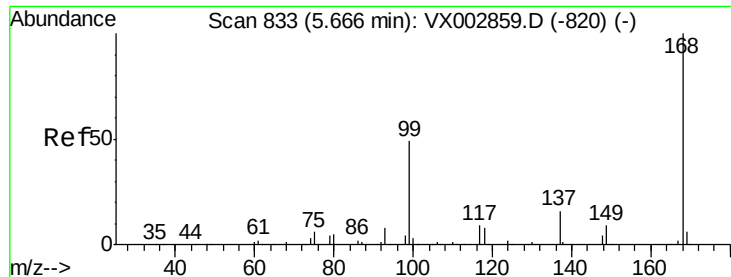
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX003046.D

Acq: 29 Jun 2018 23:23

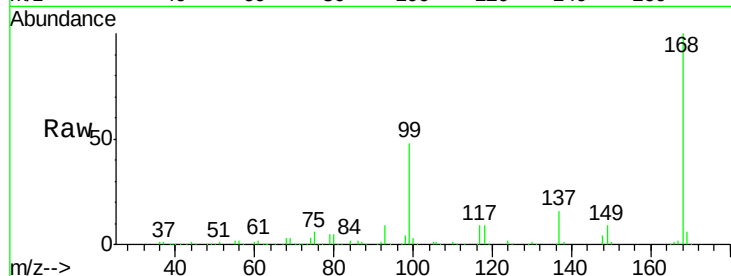
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 257600

Ion Ratio Lower Upper

168 100

99 48.3 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

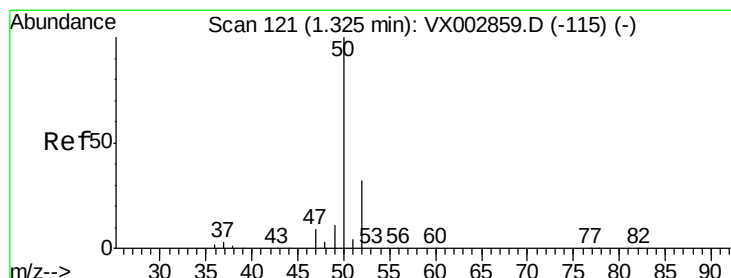
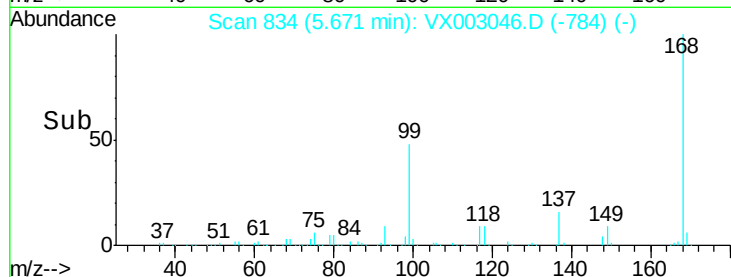
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003046.D

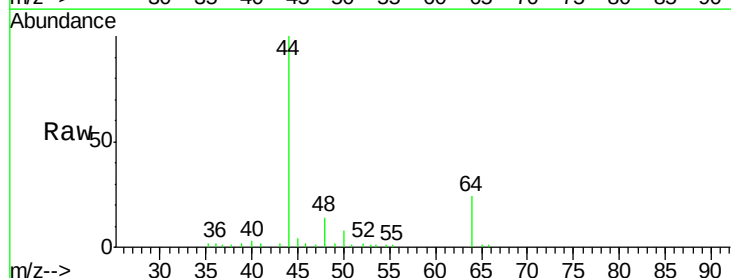
Acq: 29 Jun 2018 23:23

Tgt Ion: 50 Resp: 579

Ion Ratio Lower Upper

50 100

52 36.6 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

600

500

400

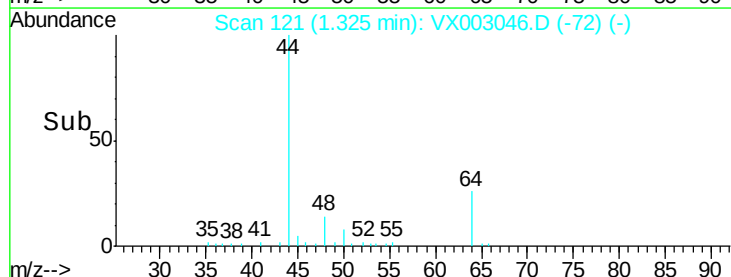
300

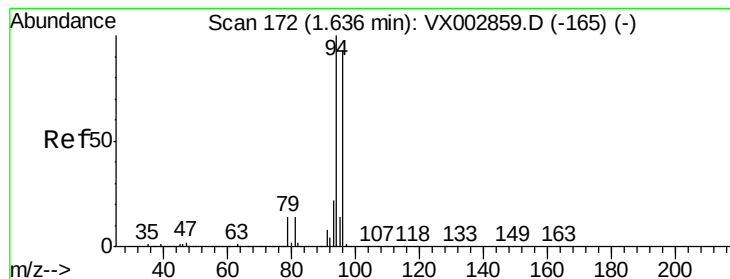
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003046.D

Acq: 29 Jun 2018 23:23

Instrument :

MSVOA_X

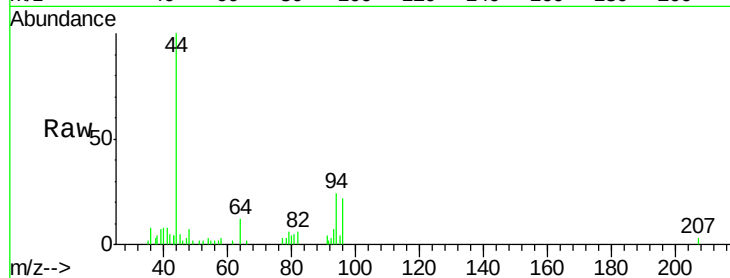
ClientSampleId :

Tot Ion: 94 Resp: 1814

Ion Ratio Lower Upper

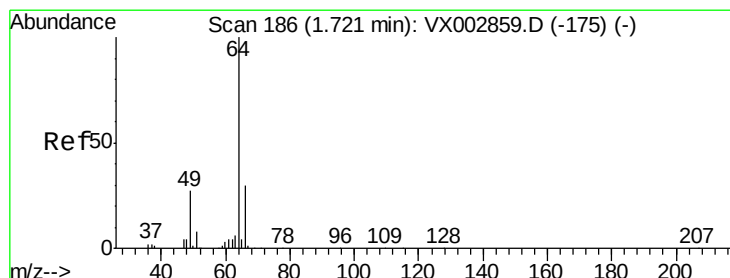
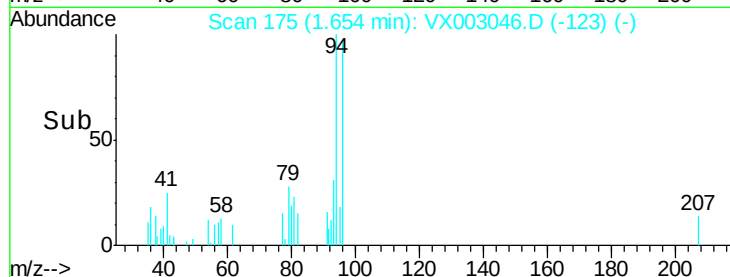
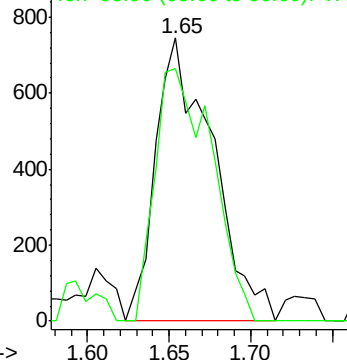
94 100

96 89.4 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: 1.72 min Scan# 186

Delta R.T. -0.00 min

Lab File: VX003046.D

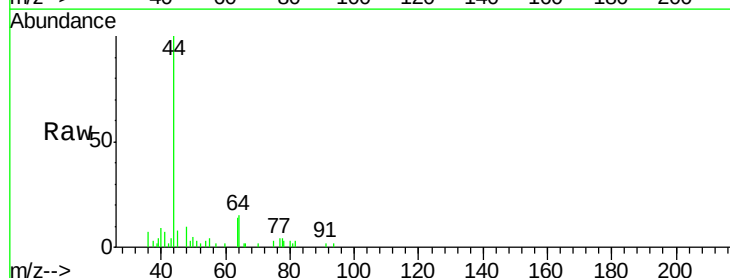
Acq: 29 Jun 2018 23:23

Tgt Ion: 64 Resp: 332

Ion Ratio Lower Upper

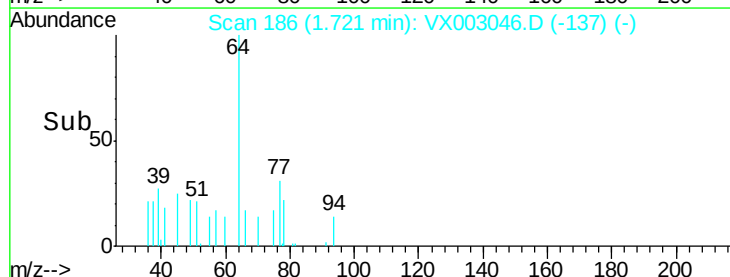
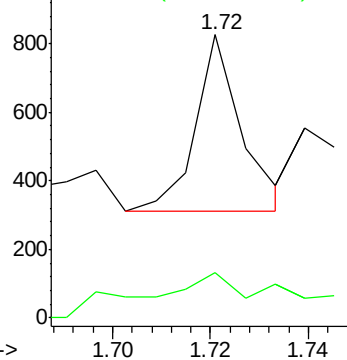
64 100

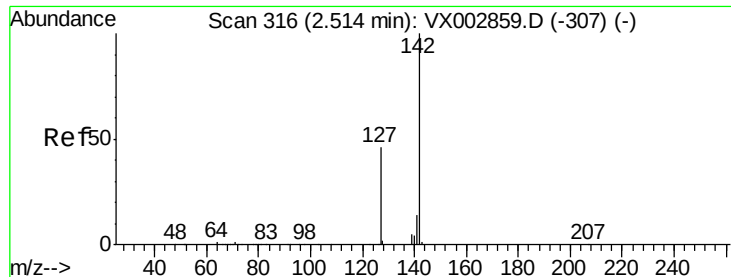
66 13.8 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#10

Methyl Iodide

Concen: 7.26 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003046.D

Acq: 29 Jun 2018 23:23

Instrument :

MSVOA_X

ClientSampleId :

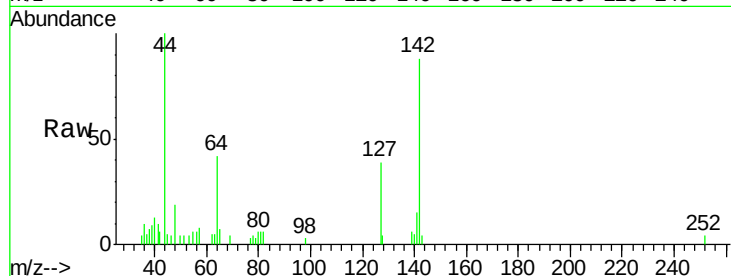
Tot Ion:142 Resp: 3415

Ion Ratio Lower Upper

142 100

127 43.9 36.6 55.0

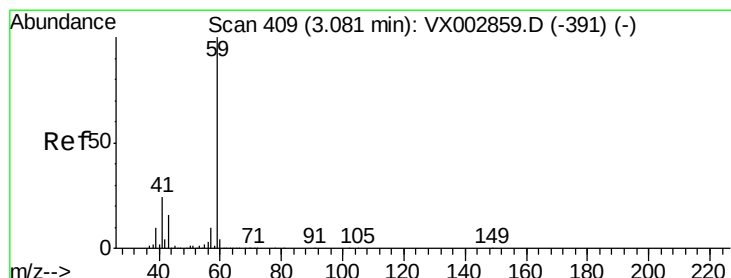
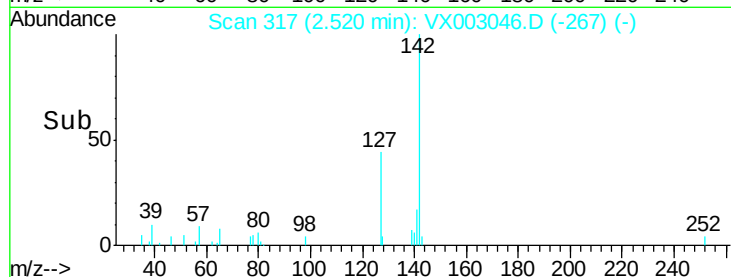
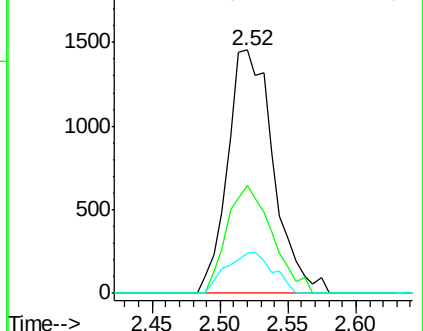
141 17.0 11.3 16.9#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 2.35 ug/l

RT: 3.01 min Scan# 398

Delta R.T. -0.07 min

Lab File: VX003046.D

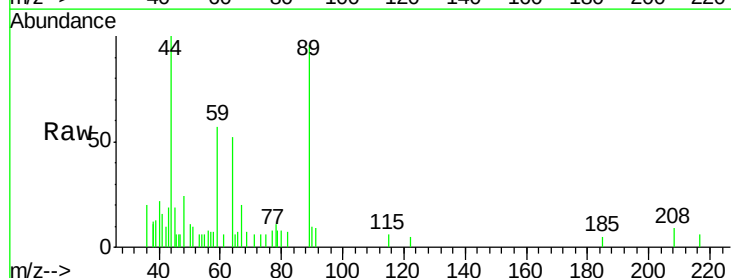
Acq: 29 Jun 2018 23:23

Tgt Ion: 59 Resp: 1670

Ion Ratio Lower Upper

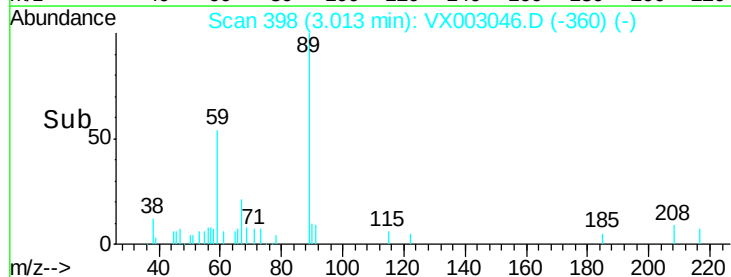
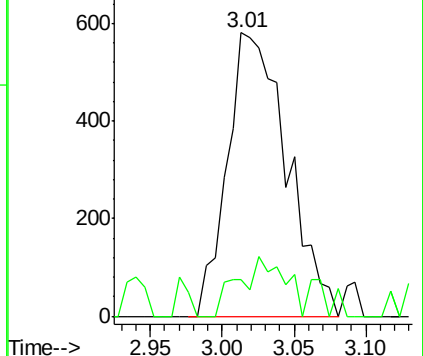
59 100

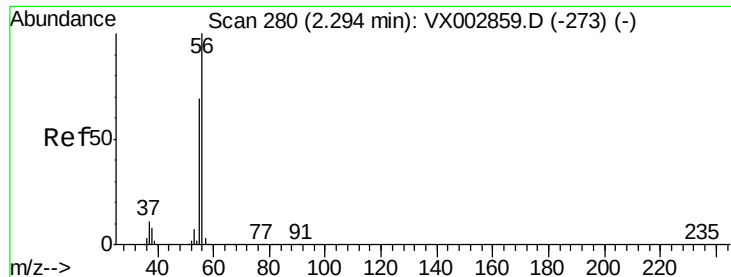
57 16.2 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 5.08 ug/l

RT: 2.29 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX003046.D

Acq: 29 Jun 2018 23:23

Instrument :

MSVOA_X

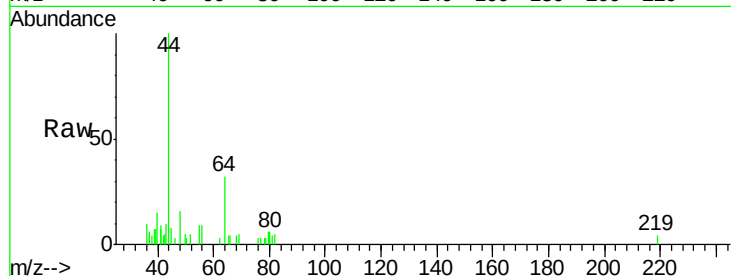
ClientSampled :

Tot Ion: 56 Resp: 341

Ion Ratio Lower Upper

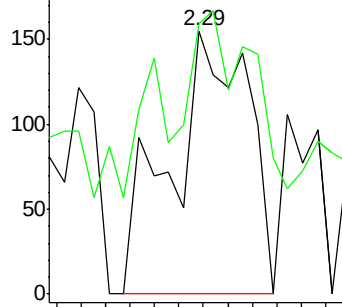
56 100

55 104.7 57.0 85.4#

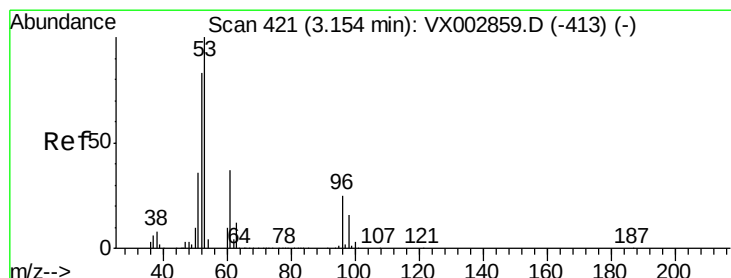
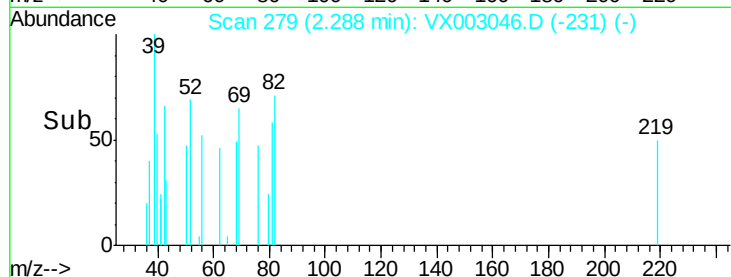


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#15

Acrylonitrile

Concen: 0.48 ug/l

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX003046.D

Acq: 29 Jun 2018 23:23

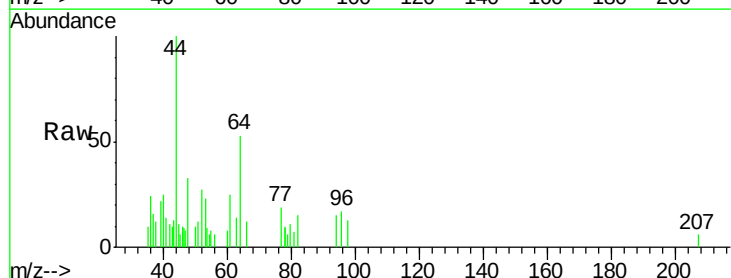
Tgt Ion: 53 Resp: 727

Ion Ratio Lower Upper

53 100

52 81.3 66.7 100.1

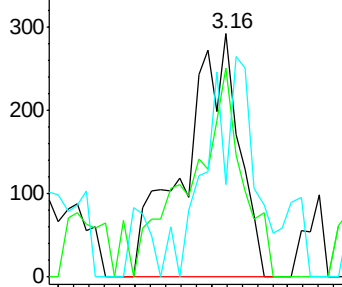
51 75.7 29.9 44.9#



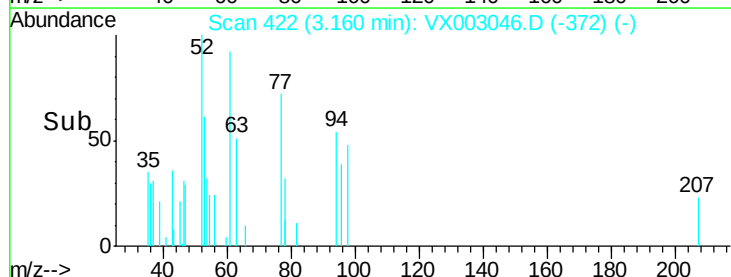
Abundance Ion 53.00 (52.70 to 53.70): VX0

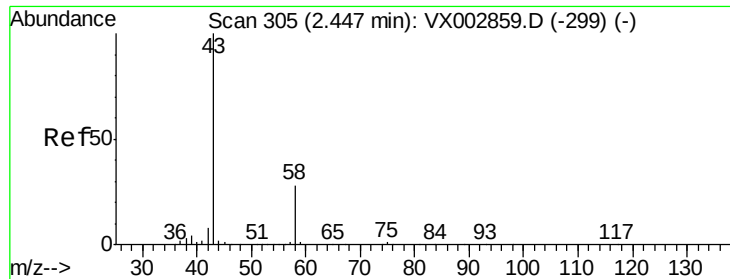
Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



Time-->





#16

Acetone

Concen: 0.84 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX003046.D

Acq: 29 Jun 2018 23:23

Instrument :

MSVOA_X

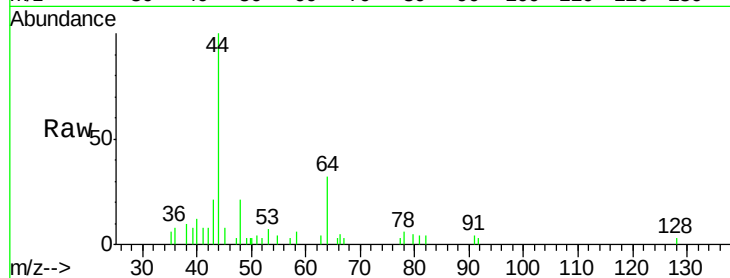
ClientSampled :

Tot Ion: 43 Resp: 1235

Ion Ratio Lower Upper

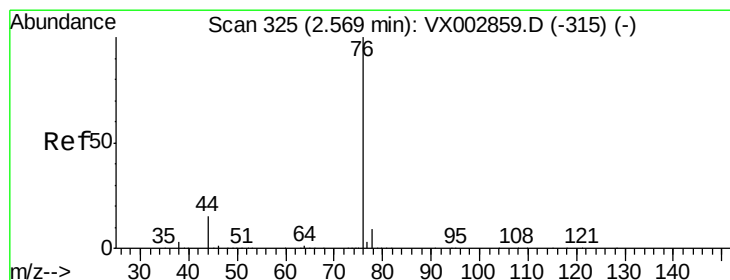
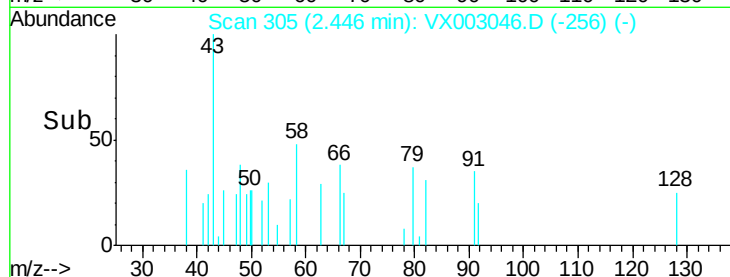
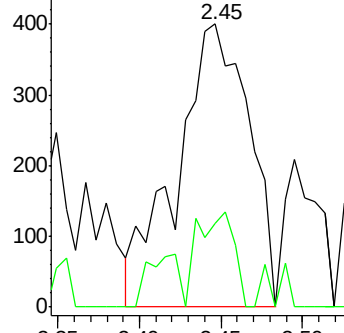
43 100

58 29.8 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: 0.29 ug/l

RT: 2.57 min Scan# 325

Delta R.T. -0.00 min

Lab File: VX003046.D

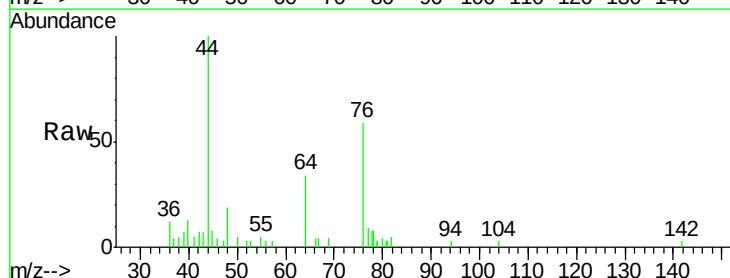
Acq: 29 Jun 2018 23:23

Tgt Ion: 76 Resp: 1970

Ion Ratio Lower Upper

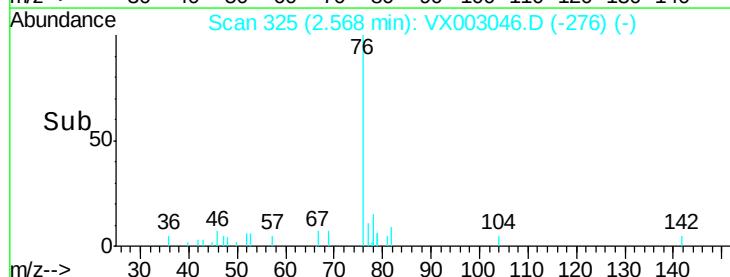
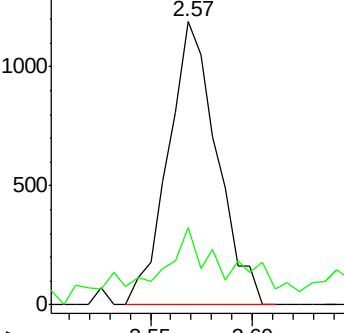
76 100

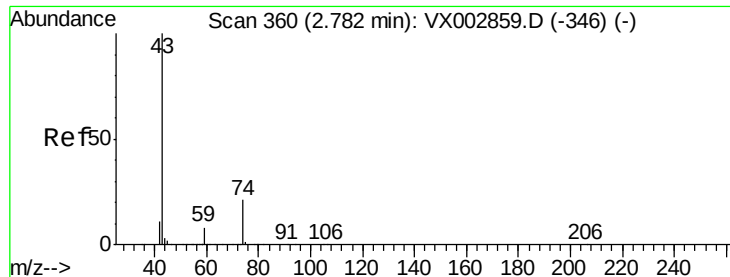
78 21.9 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

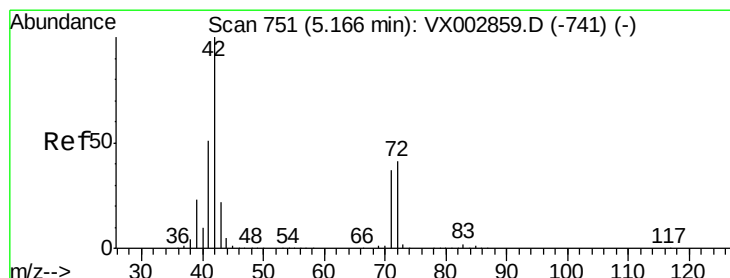
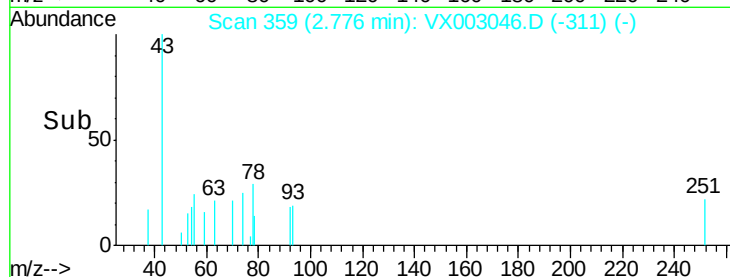
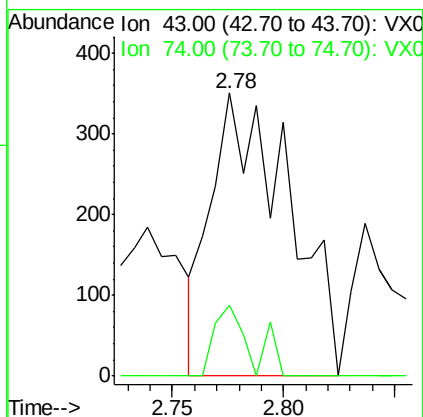
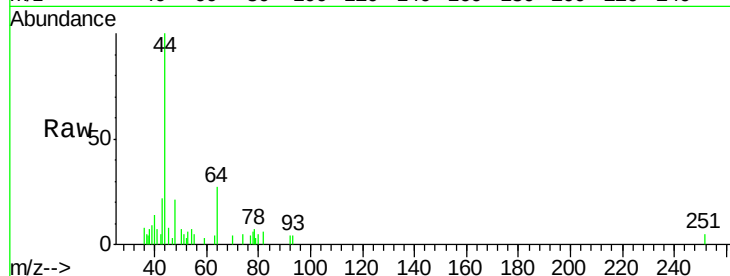




#18
Methvl Acetate
Concen: 0.21 ug/l
RT: 2.78 min Scan# 359
Delta R.T. -0.01 min
Lab File: VX003046.D
Acq: 29 Jun 2018 23:23

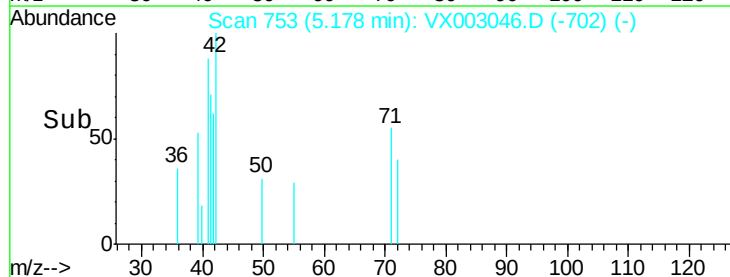
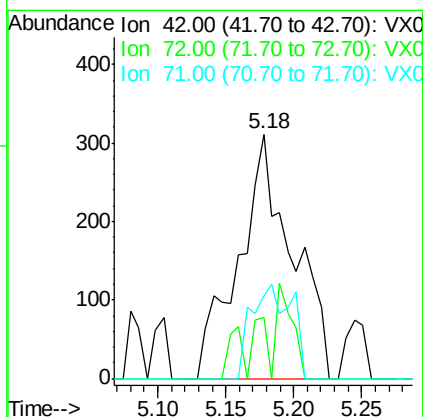
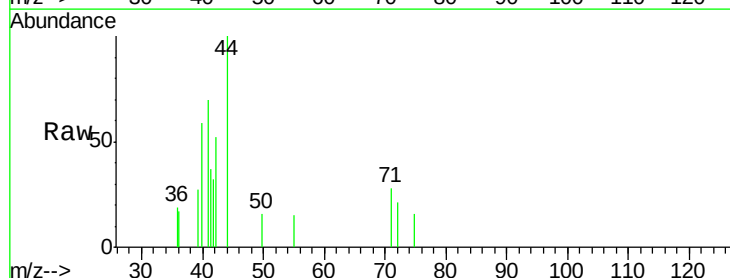
Instrument :
MSVOA_X
ClientSampled :

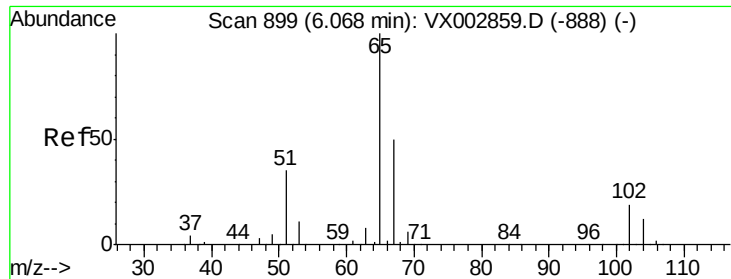
Tot Ion: 43 Resp: 847
Ion Ratio Lower Upper
43 100
74 8.9 16.7 25.1#



#29
Tetrahydrofuran
Concen: 0.61 ug/l
RT: 5.18 min Scan# 753
Delta R.T. 0.01 min
Lab File: VX003046.D
Acq: 29 Jun 2018 23:23

Tgt Ion: 42 Resp: 855
Ion Ratio Lower Upper
42 100
72 6.4 32.0 48.0#
71 0.0 30.1 45.1#

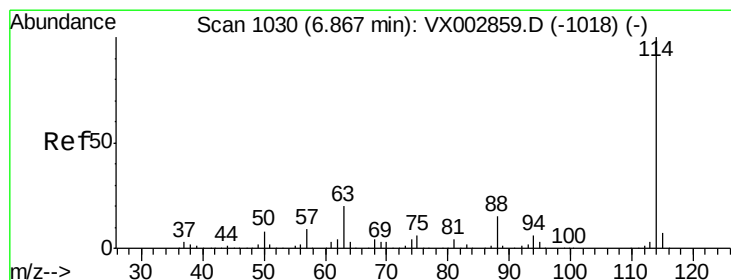
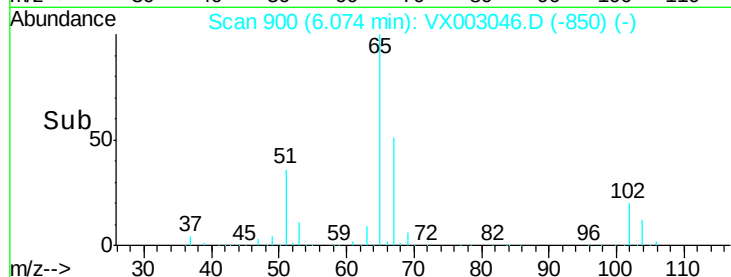
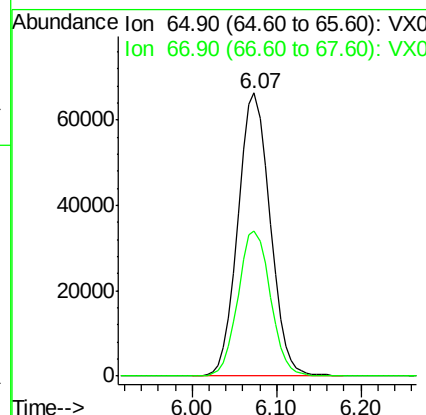
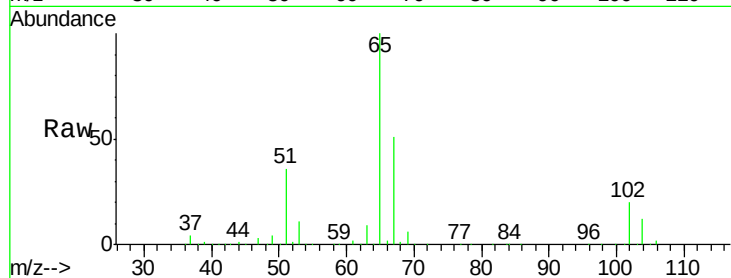




#33
 1,2-Dichloroethane-d4
 Concen: 48.16 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX003046.D
 Acq: 29 Jun 2018 23:23

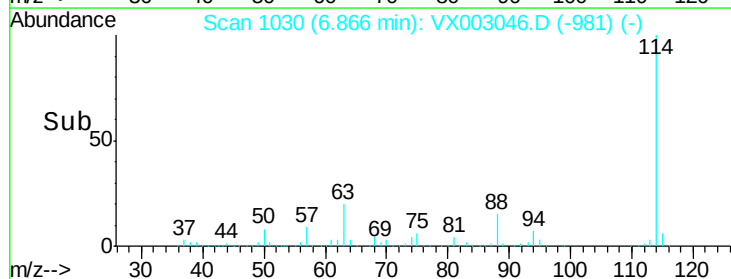
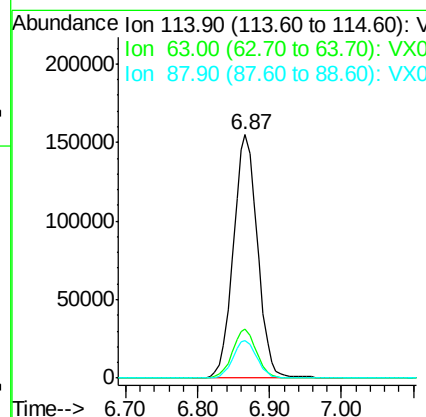
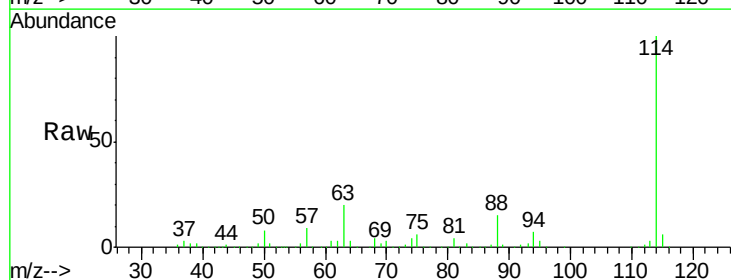
Instrument :
 MSVOA_X
 ClientSampleId :

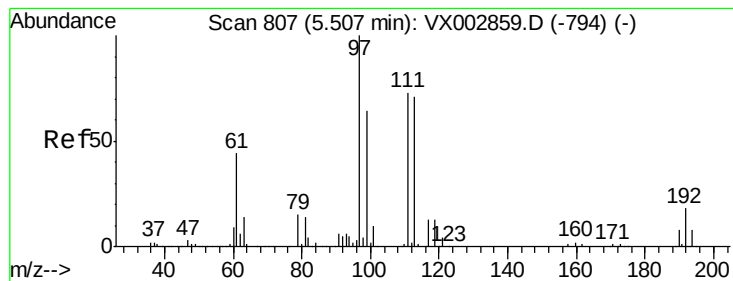
Tot Ion: 65 Resp: 171467
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX003046.D
 Acq: 29 Jun 2018 23:23

Tgt Ion: 114 Resp: 362054
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 41.4
 88 15.5 0.0 30.0





#35

Dibromofluoromethane

Concen: 49.21 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX003046.D

Acq: 29 Jun 2018 23:23

Instrument :

MSVOA_X

ClientSampleId :

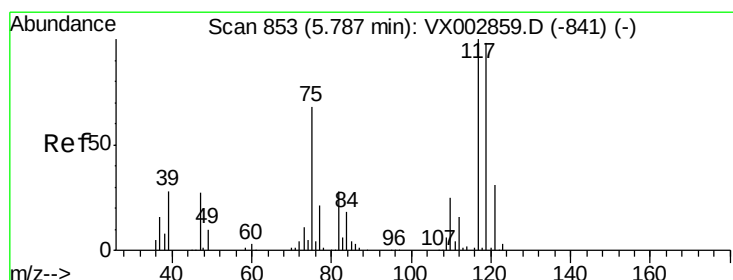
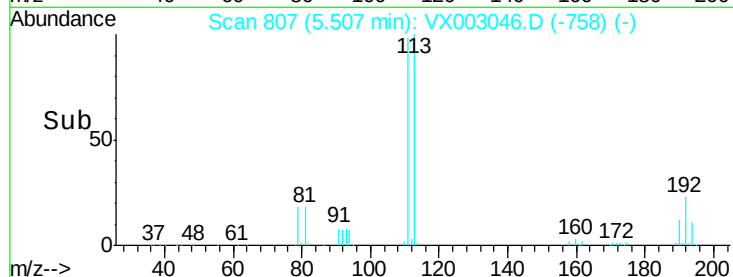
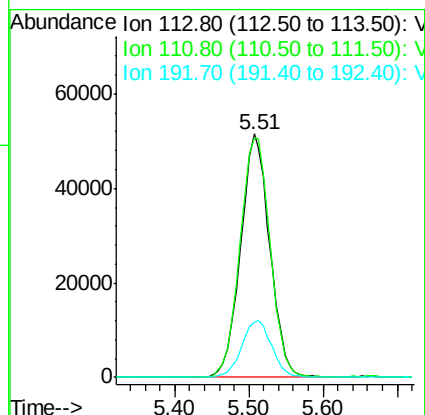
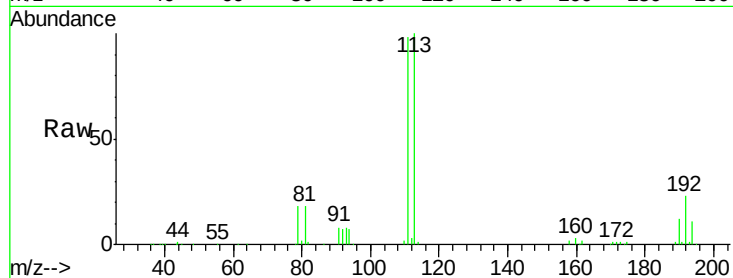
Tot Ion:113 Resp: 141096

Ion Ratio Lower Upper

113 100

111 102.2 81.4 122.0

192 24.0 19.1 28.7



#38

Carbon Tetrachloride

Concen: 5.40 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX003046.D

Acq: 29 Jun 2018 23:23

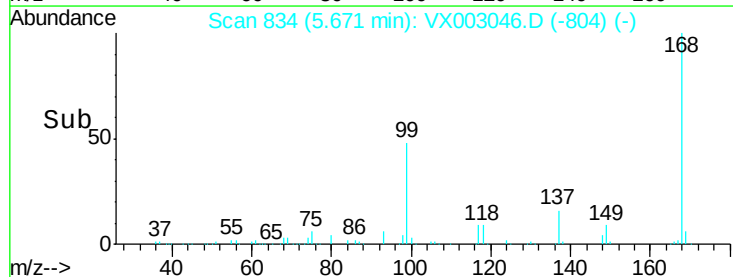
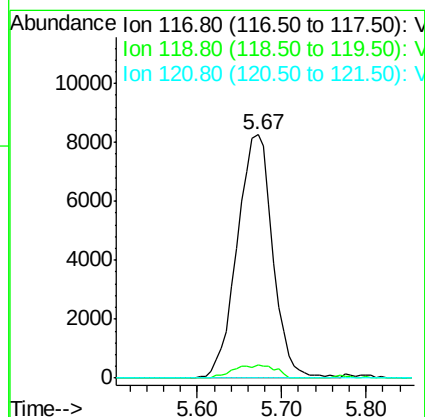
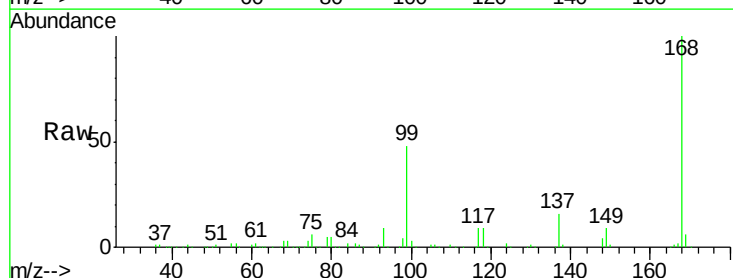
Tgt Ion:117 Resp: 23542

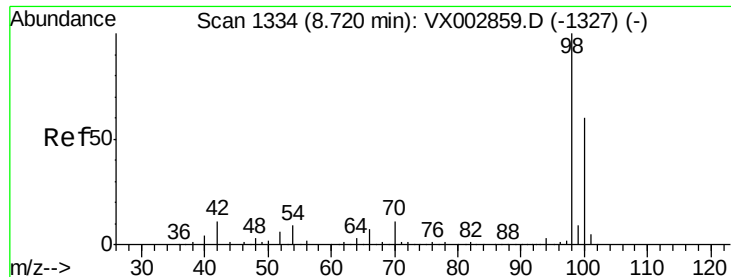
Ion Ratio Lower Upper

117 100

119 5.2 77.4 116.0#

121 0.0 24.4 36.6#

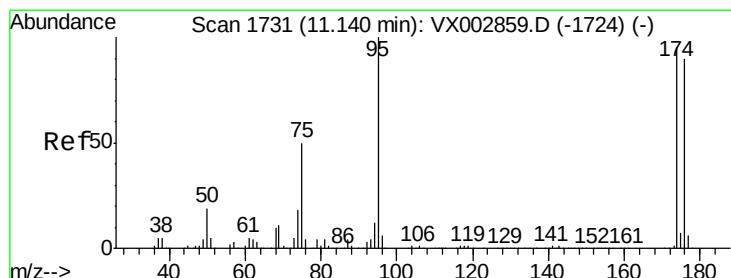
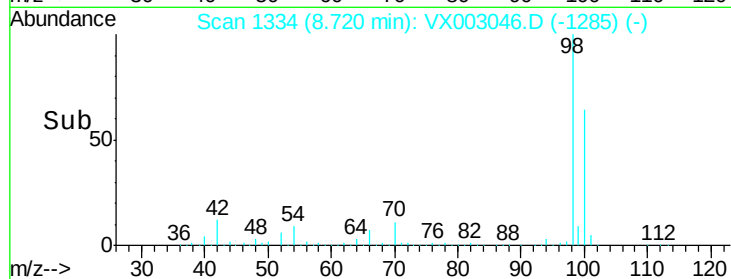
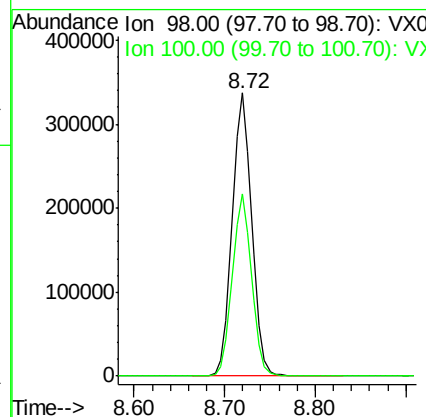
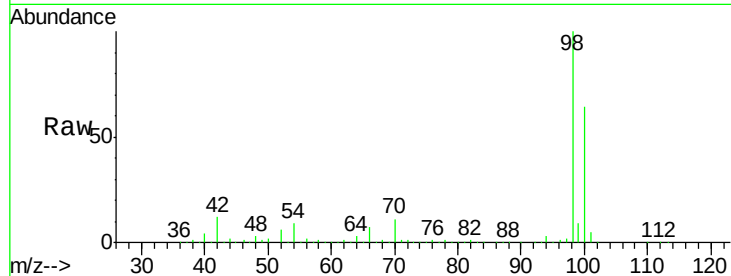




#50
Toluene-d8
Concen: 48.35 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003046.D
Acq: 29 Jun 2018 23:23

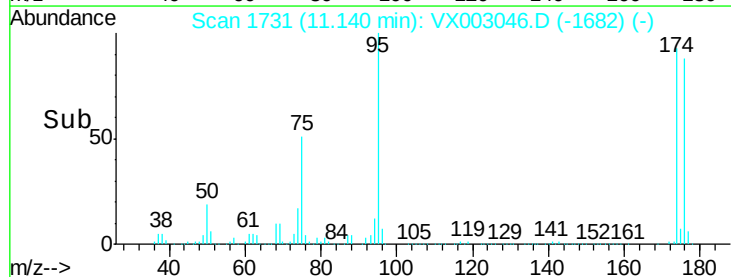
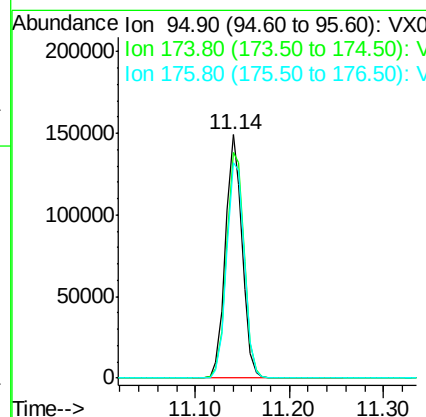
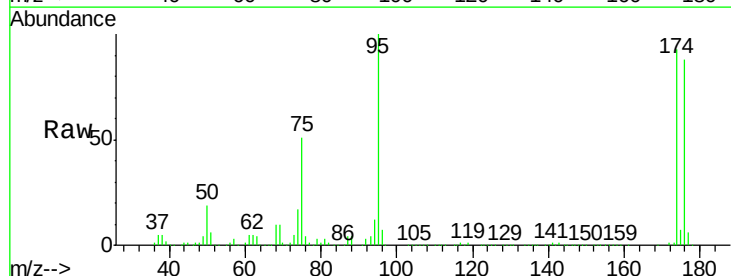
Instrument :
MSVOA_X
ClientSampleId :

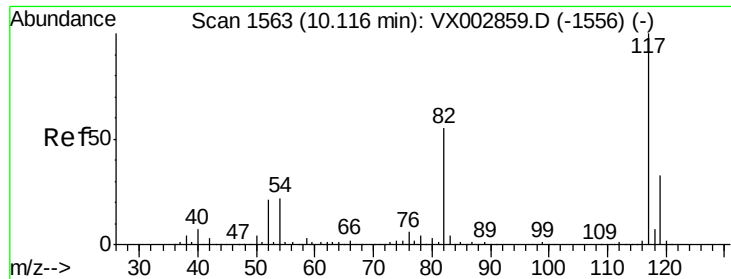
Tot Ion: 98 Resp: 506274
Ion Ratio Lower Upper
98 100
100 63.6 50.9 76.3



#62
4-Bromofluorobenzene
Concen: 45.20 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003046.D
Acq: 29 Jun 2018 23:23

Tgt Ion: 95 Resp: 182530
Ion Ratio Lower Upper
95 100
174 98.6 0.0 187.4
176 94.4 0.0 181.0

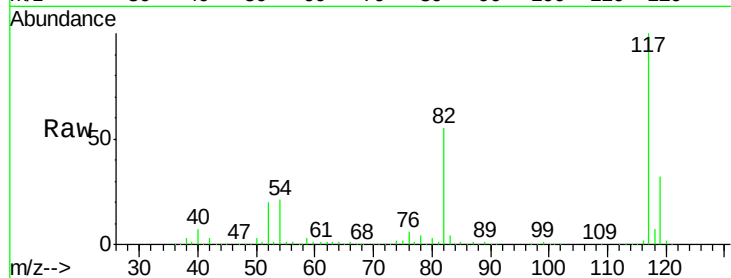




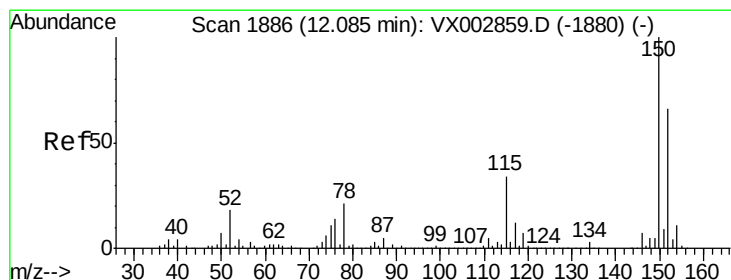
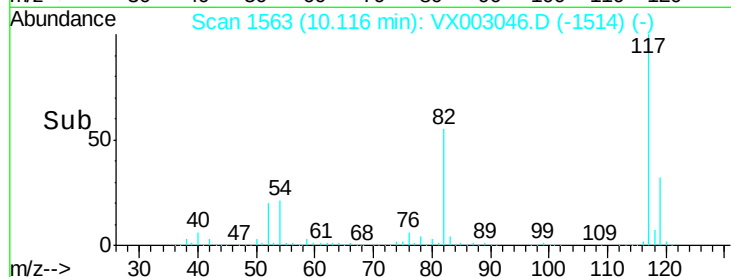
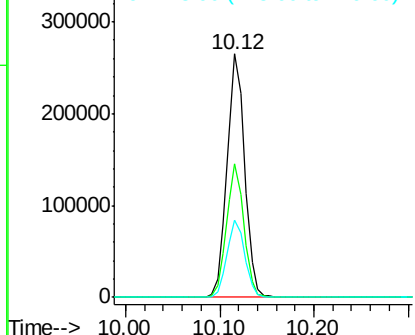
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003046.D
Acq: 29 Jun 2018 23:23

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 345901
Ion Ratio Lower Upper
117 100
82 54.6 45.0 67.4
119 31.7 25.8 38.6

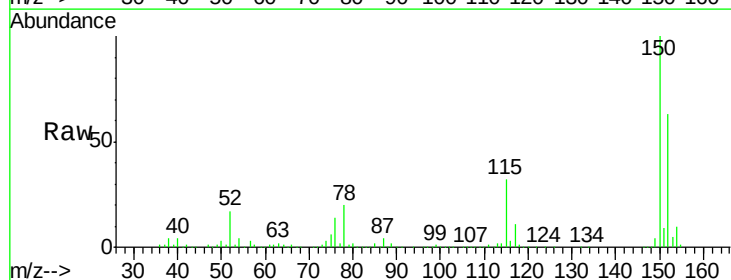


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

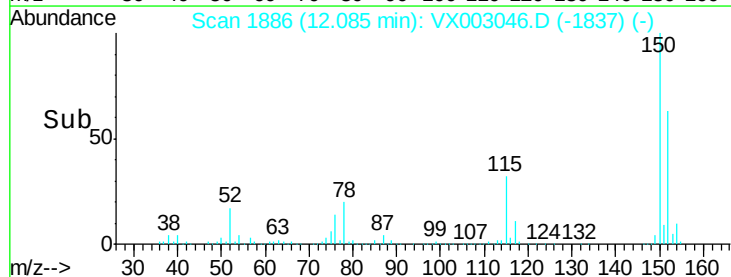
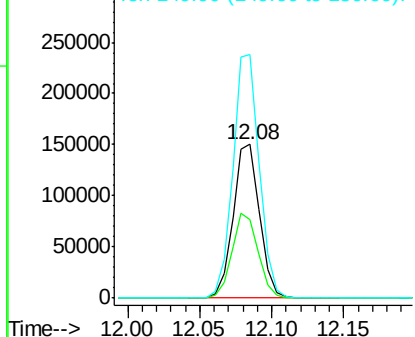


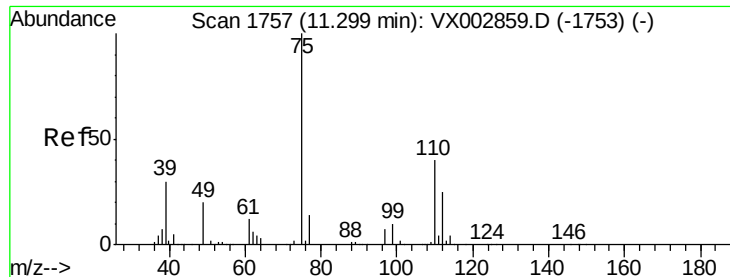
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX003046.D
Acq: 29 Jun 2018 23:23

Tgt Ion:152 Resp: 193415
Ion Ratio Lower Upper
152 100
115 54.6 40.1 120.2
150 157.8 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

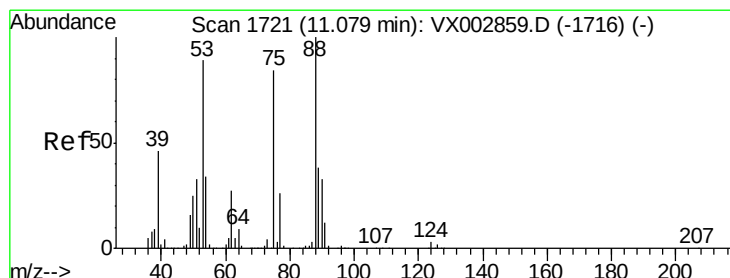
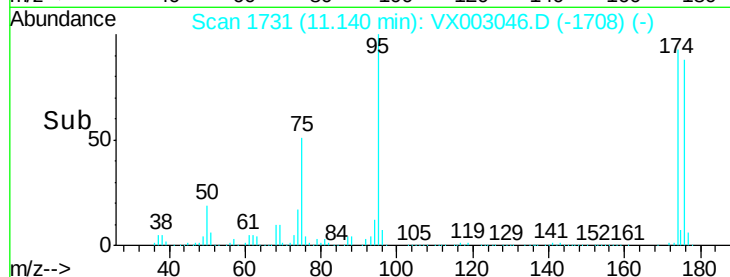
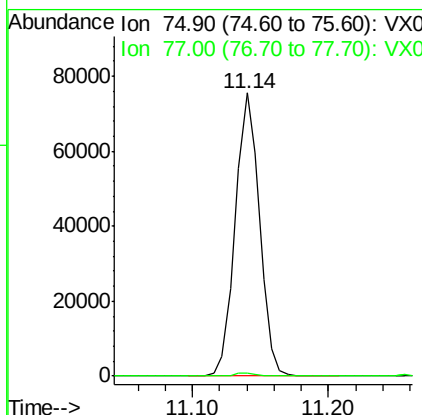
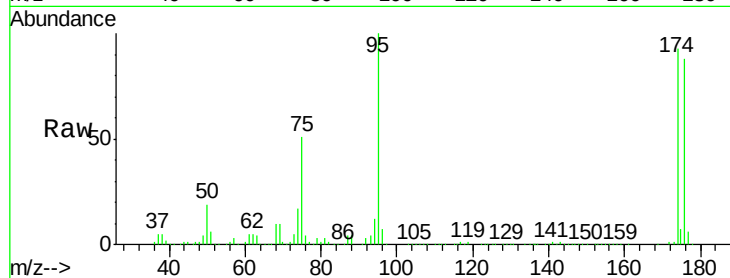




#76
 1,2,3-Trichloropropane
 Concen: 26.71 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX003046.D
 Acq: 29 Jun 2018 23:23

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 93578
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 75.65 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX003046.D
 Acq: 29 Jun 2018 23:23

Tgt Ion: 75 Resp: 93578
 Ion Ratio Lower Upper
 75 100
 53 0.1 86.8 130.2#
 89 0.0 38.2 57.2#

