

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX042318\
 Data File : VX001061.D
 Acq On : 23 Apr 2018 16:19
 Operator : JC/MD
 Sample : J2464-12
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z1TB09-180417

Quant Time: Apr 24 07:02:48 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X041918W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 20 05:03:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	211102	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	293808	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	264006	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	152431	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	137095	51.23	ug/l	0.00
Spiked Amount			Recovery	=	102.46%	
35) Dibromofluoromethane	5.51	113	105877	47.26	ug/l	0.00
Spiked Amount			Recovery	=	94.52%	
50) Toluene-d8	8.72	98	409517	49.43	ug/l	0.00
Spiked Amount			Recovery	=	98.86%	
62) 4-Bromofluorobenzene	11.14	95	146039	42.01	ug/l	0.00
Spiked Amount			Recovery	=	84.02%	

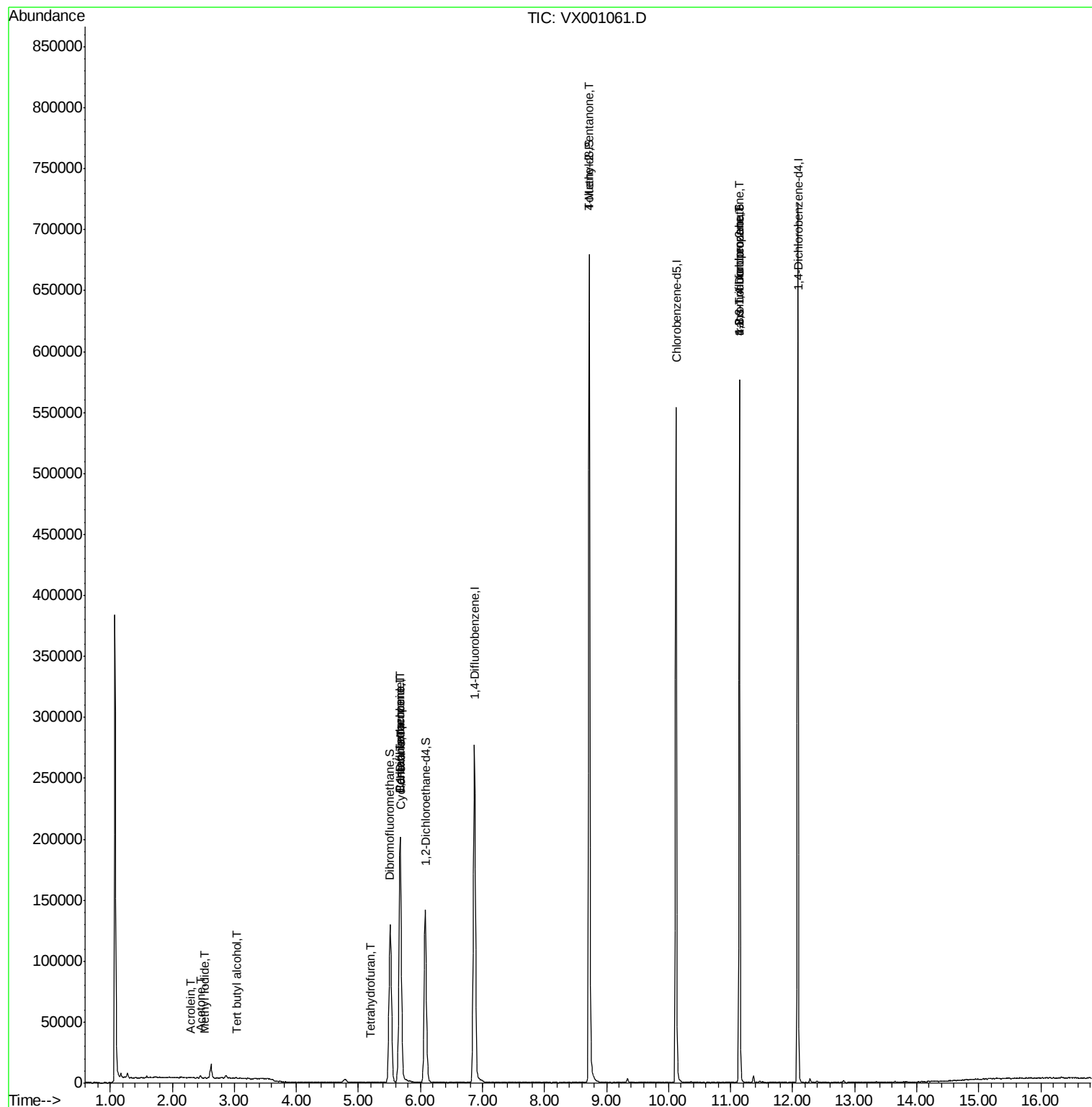
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	361	Below Cal		95
10) Methyl Iodide	2.51	142	19	7.61	ug/l #	1
11) Tert butyl alcohol	3.04	59	281	0.70	ug/l #	89
13) Acrolein	2.29	56	42	11.25	ug/l #	1
16) Acetone	2.45	43	1916	1.90	ug/l	91
20) Methylene Chloride	2.86	84	1136	Below Cal		94
29) Tetrahydrofuran	5.18	42	432	0.43	ug/l #	45
31) Cyclohexane	5.68	56	3712	0.98	ug/l #	25
36) 1,1-Dichloropropene	5.67	75	13119	3.80	ug/l #	50
38) Carbon Tetrachloride	5.67	117	18383	5.26	ug/l #	17
51) 4-Methyl-2-Pentanone	8.72	43	1986	0.60	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	74276	28.09	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	74276	83.84	ug/l #	8

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX001061.D

Acq: 23 Apr 2018 16:19

Instrument :

MSVOA_X

ClientSampleId :

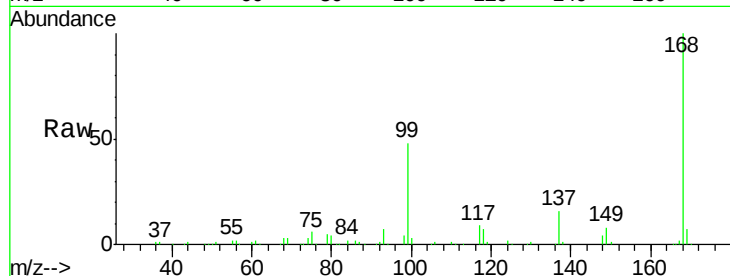
Z1TB09-180417

Tgt Ion:168 Resp: 211102

Ion Ratio Lower Upper

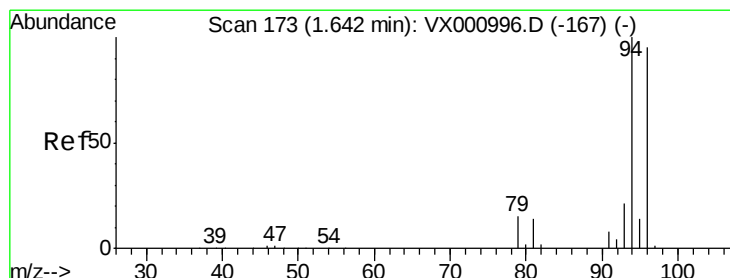
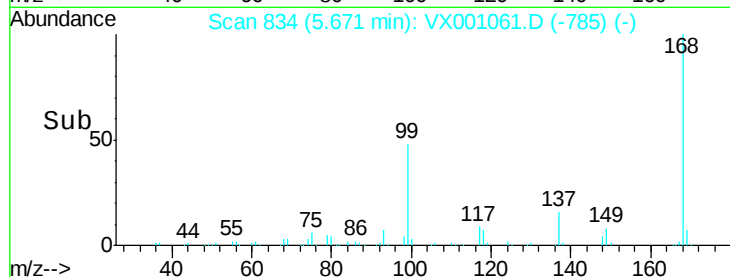
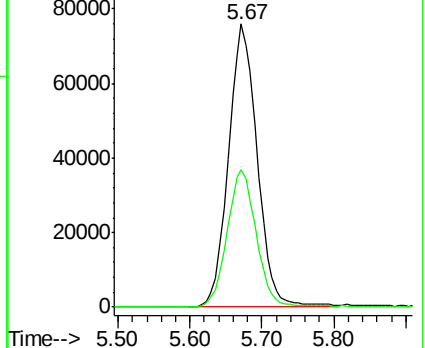
168 100

99 48.5 39.2 58.8



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. 0.01 min

Lab File: VX001061.D

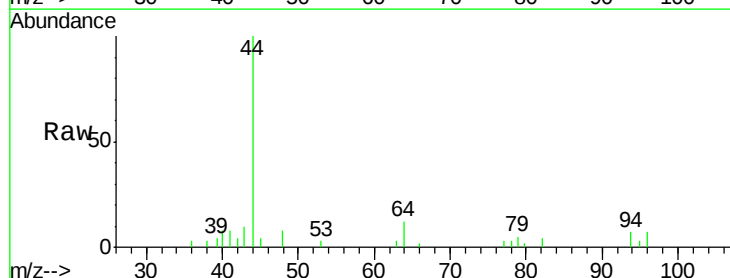
Acq: 23 Apr 2018 16:19

Tgt Ion: 94 Resp: 361

Ion Ratio Lower Upper

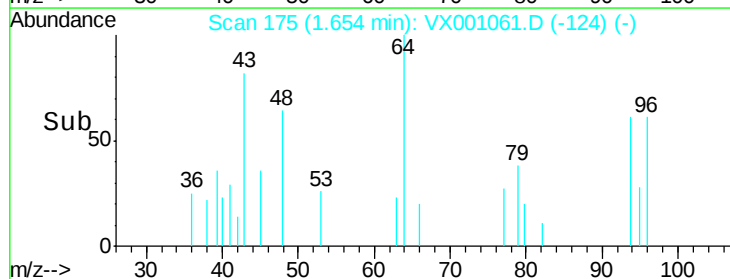
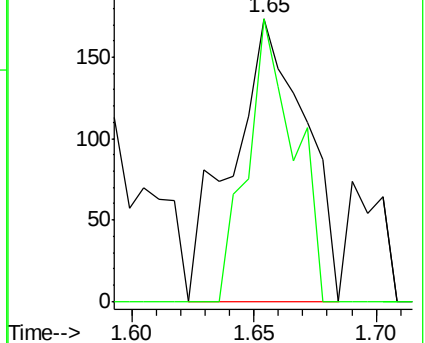
94 100

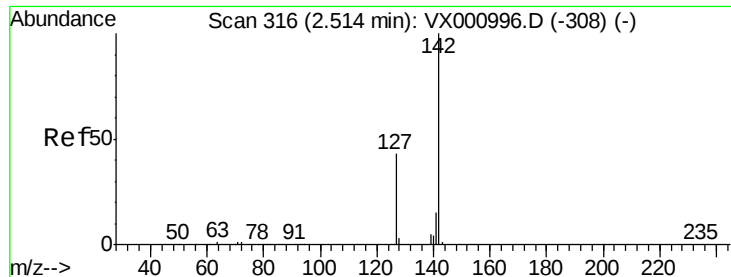
96 100.0 76.0 114.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#10

Methyl Iodide

Concen: 7.61 ug/l

RT: 2.51 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX001061.D

Acq: 23 Apr 2018 16:19

Instrument :

MSVOA_X

ClientSampleId :

Z1TB09-180417

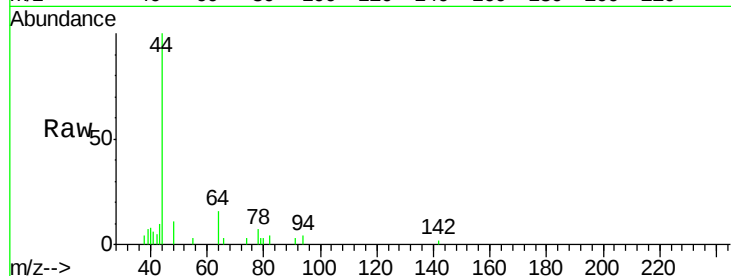
Tgt Ion: 142 Resp: 19

Ion Ratio Lower Upper

142 100

127 142.1 34.0 51.0#

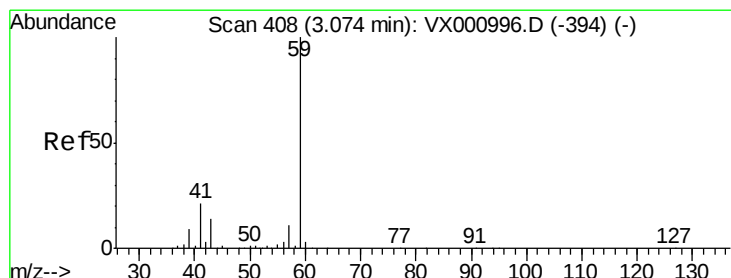
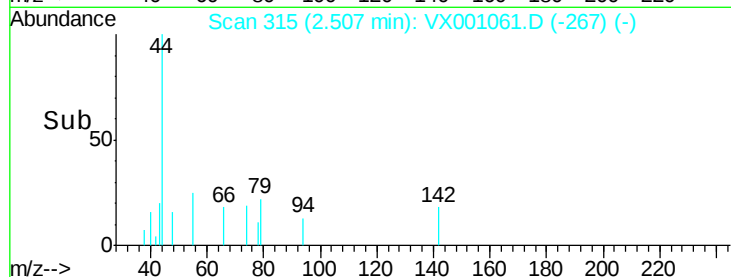
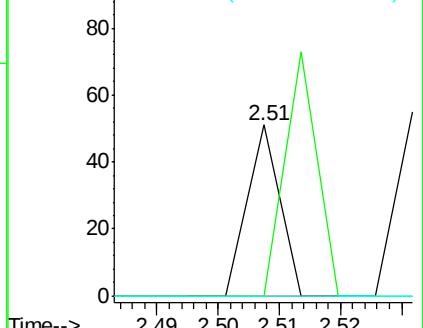
141 0.0 11.4 17.2#



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: 0.70 ug/l

RT: 3.04 min Scan# 402

Delta R.T. -0.04 min

Lab File: VX001061.D

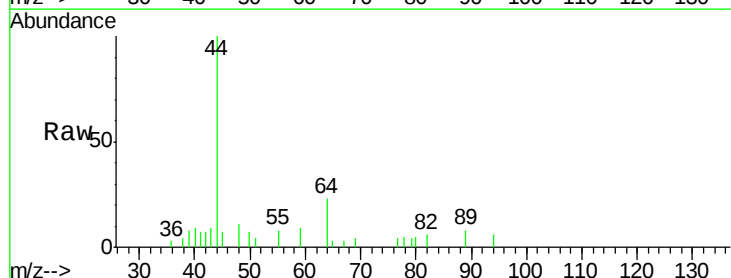
Acq: 23 Apr 2018 16:19

Tgt Ion: 59 Resp: 281

Ion Ratio Lower Upper

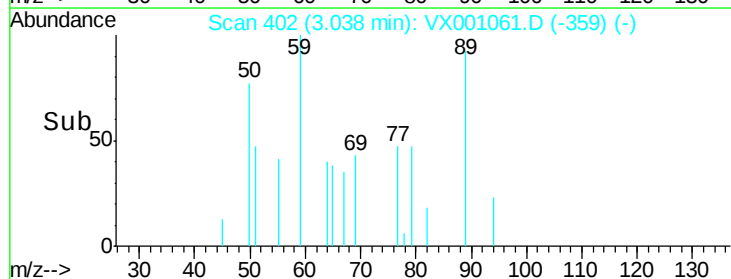
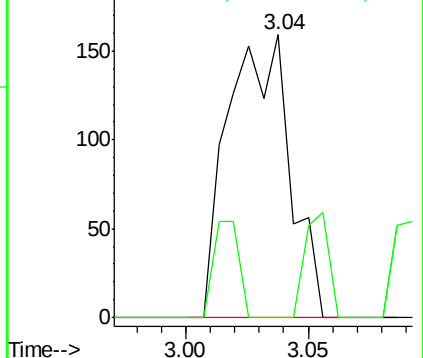
59 100

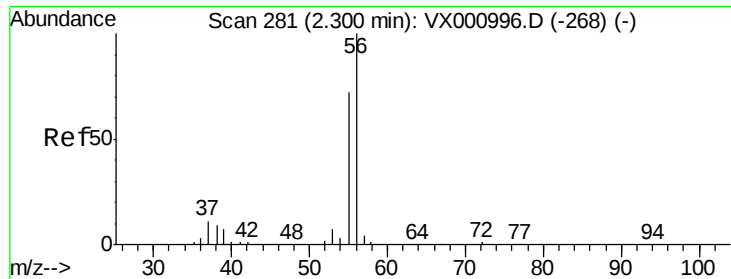
57 14.6 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 11.25 ug/l

RT: 2.29 min Scan# 280

Delta R.T. -0.01 min

Lab File: VX001061.D

Acq: 23 Apr 2018 16:19

Instrument :

MSVOA_X

ClientSampleId :

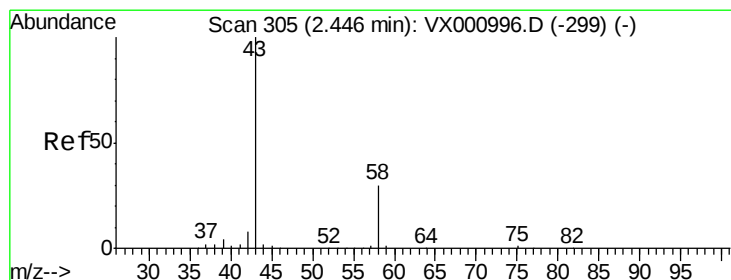
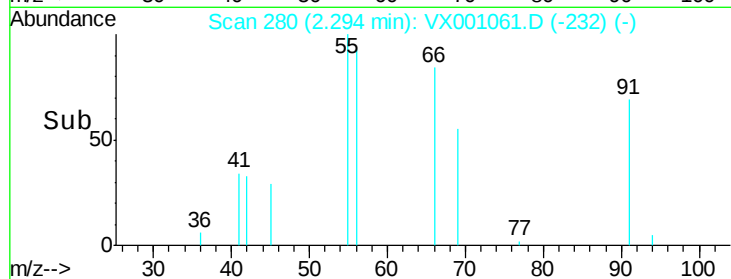
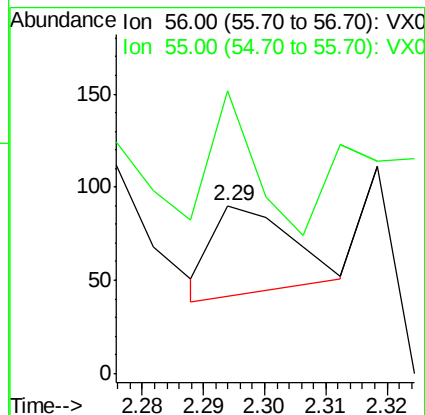
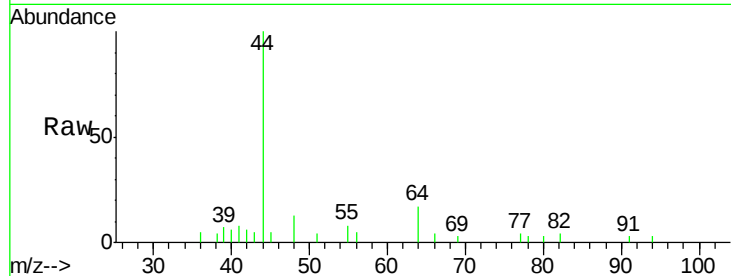
Z1TB09-180417

Tgt Ion: 56 Resp: 42

Ion Ratio Lower Upper

56 100

55 309.5 57.4 86.2#



#16

Acetone

Concen: 1.90 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX001061.D

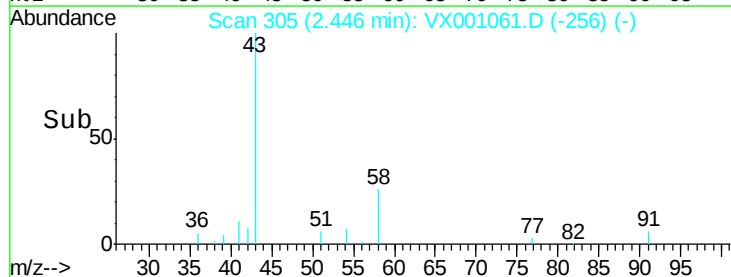
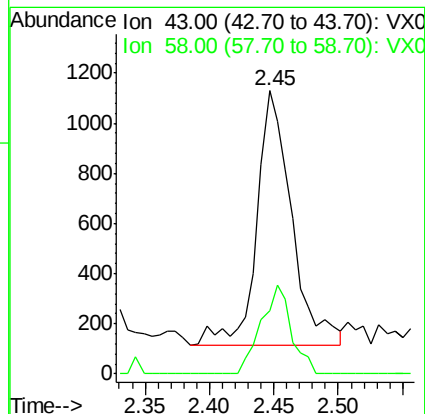
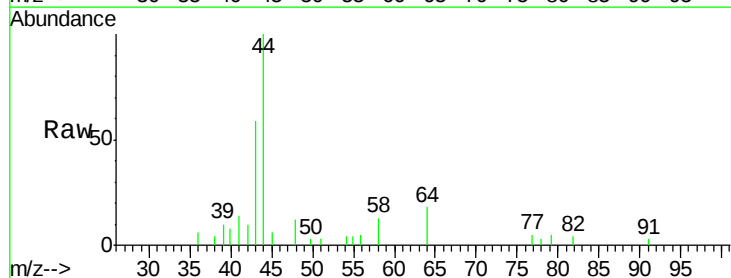
Acq: 23 Apr 2018 16:19

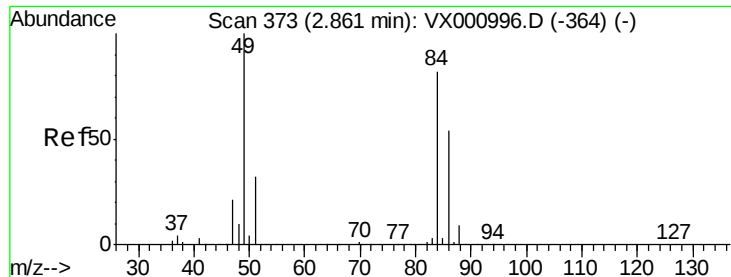
Tgt Ion: 43 Resp: 1916

Ion Ratio Lower Upper

43 100

58 24.7 23.7 35.5





#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX001061.D

Acq: 23 Apr 2018 16:19

Instrument :
MSVOA_X
ClientSampleId :
Z1TB09-180417

Tgt Ion: 84 Resp: 1136

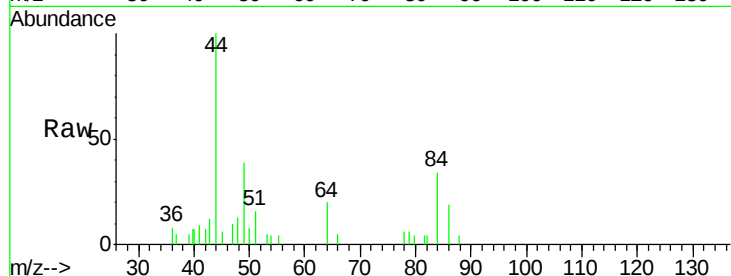
Ion Ratio Lower Upper

84 100

49 116.1 97.1 145.7

51 37.5 30.8 46.2

86 56.7 52.3 78.5

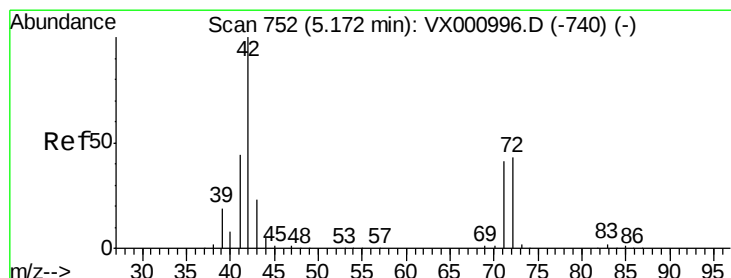
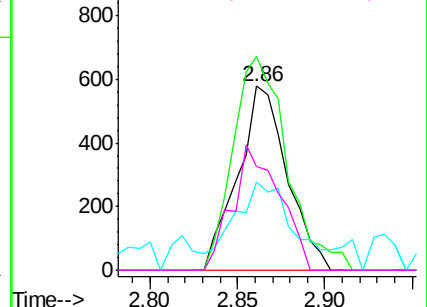
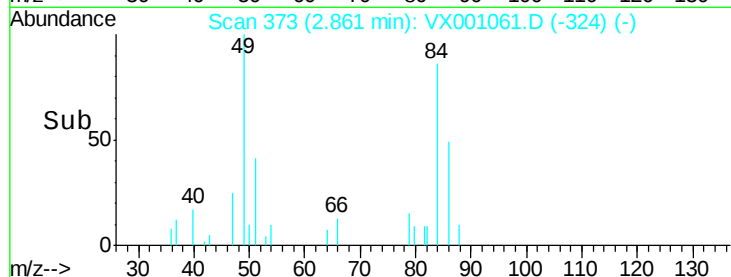


Abundance Ion 83.90 (83.60 to 84.60): VX0

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



#29

Tetrahydrofuran

Concen: 0.43 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.01 min

Lab File: VX001061.D

Acq: 23 Apr 2018 16:19

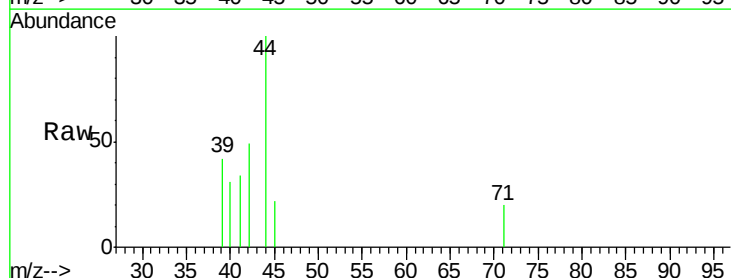
Tgt Ion: 42 Resp: 432

Ion Ratio Lower Upper

42 100

72 5.1 34.6 52.0#

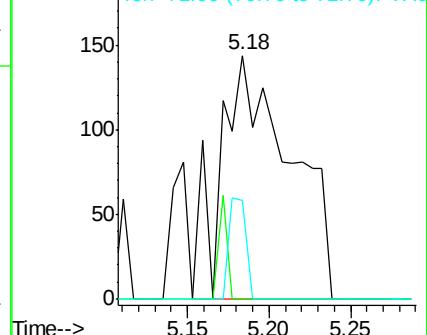
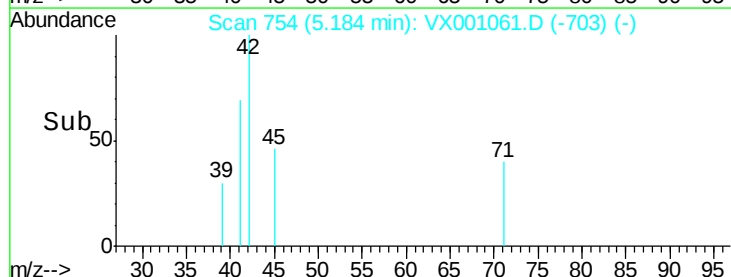
71 10.0 32.6 49.0#

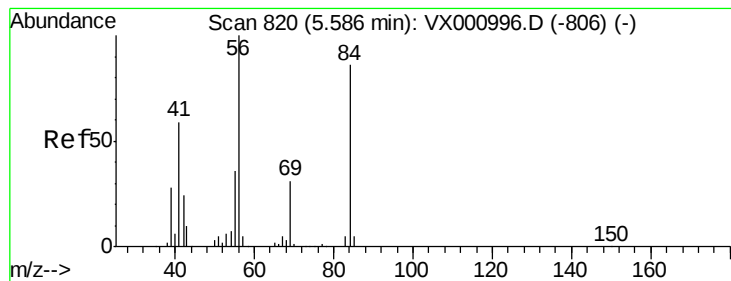


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 0.98 ug/l

RT: 5.68 min Scan# 836

Delta R.T. 0.10 min

Lab File: VX001061.D

Acq: 23 Apr 2018 16:19

Instrument :

MSVOA_X

ClientSampleId :

Z1TB09-180417

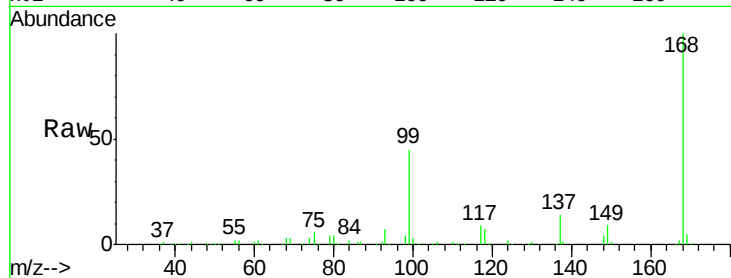
Tgt Ion: 56 Resp: 3712

Ion Ratio Lower Upper

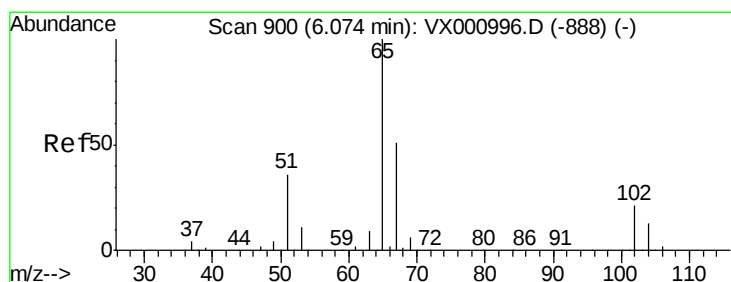
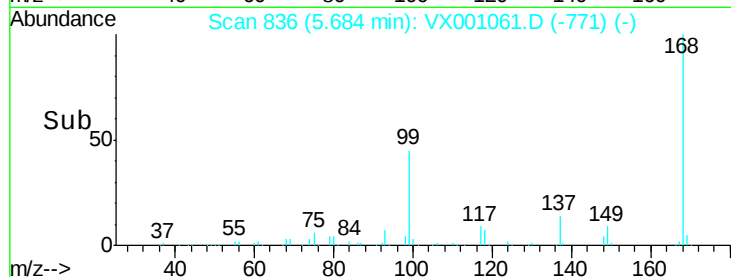
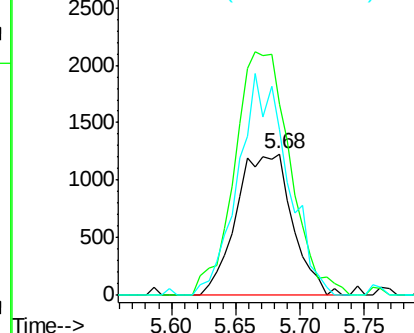
56 100

69 135.2 24.6 36.8#

84 117.0 69.0 103.6#



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: 51.23 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX001061.D

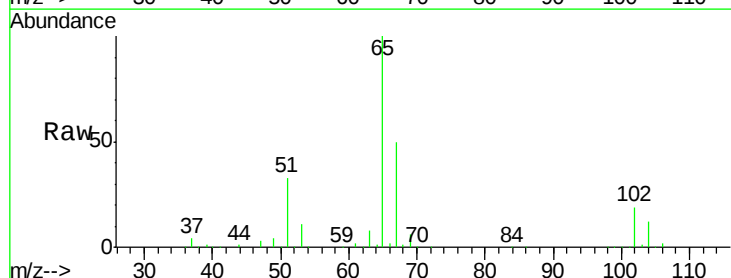
Acq: 23 Apr 2018 16:19

Tgt Ion: 65 Resp: 137095

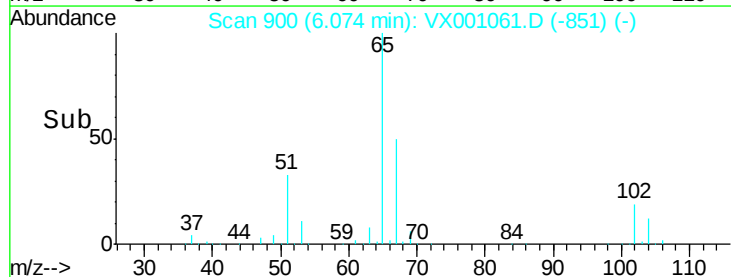
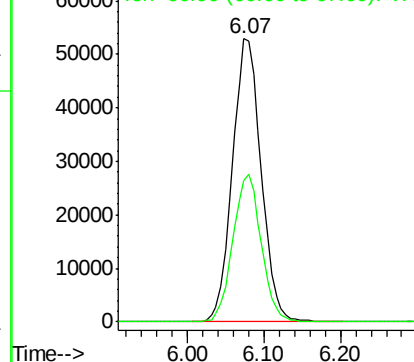
Ion Ratio Lower Upper

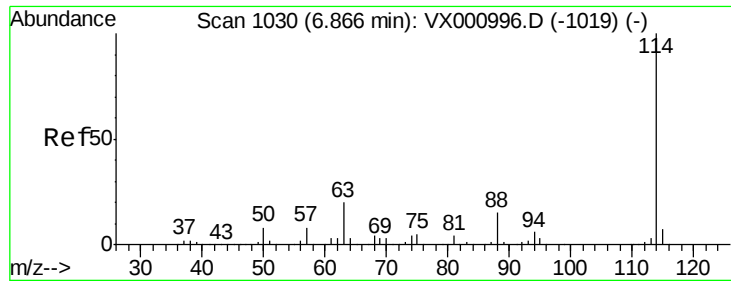
65 100

67 51.3 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

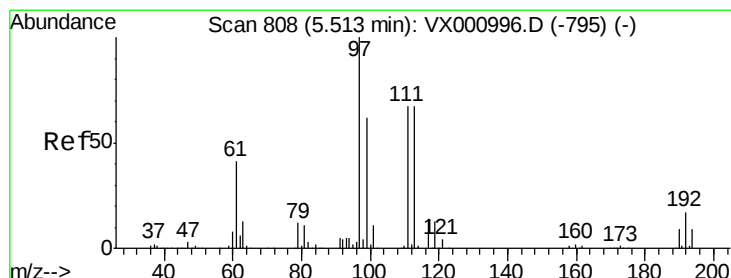
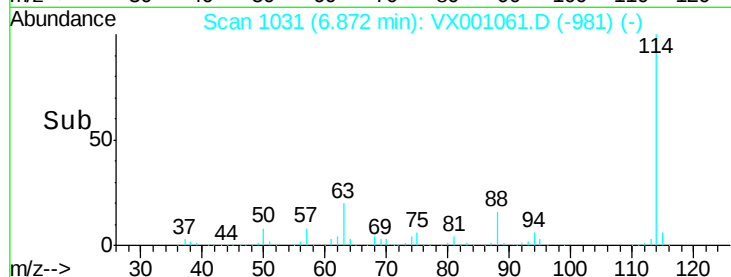
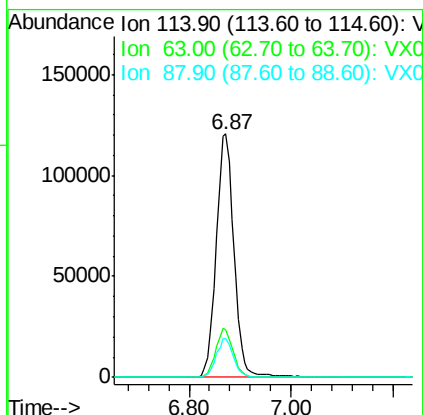
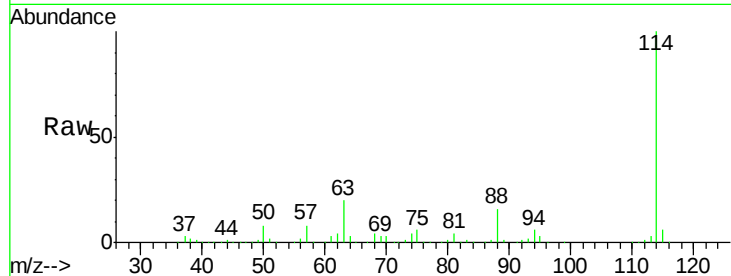




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1031
 Delta R.T. 0.01 min
 Lab File: VX001061.D
 Acq: 23 Apr 2018 16:19

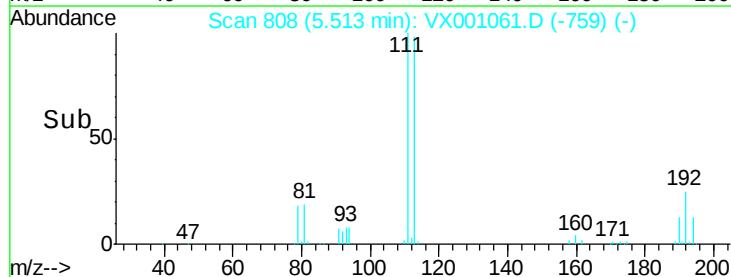
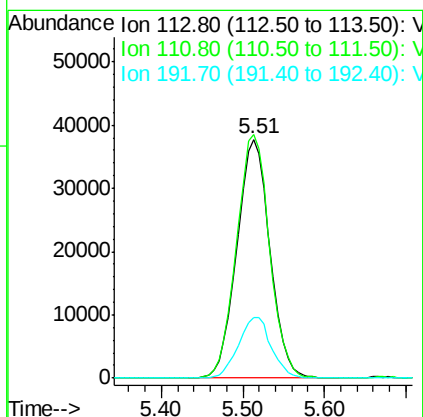
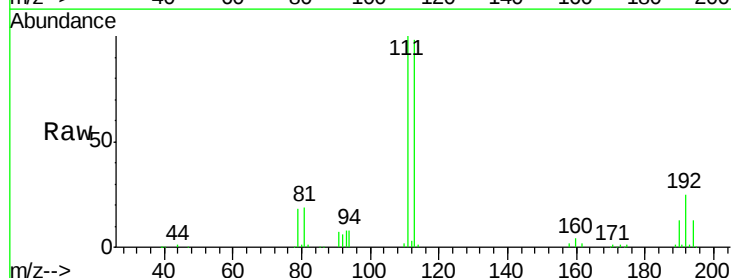
Instrument :
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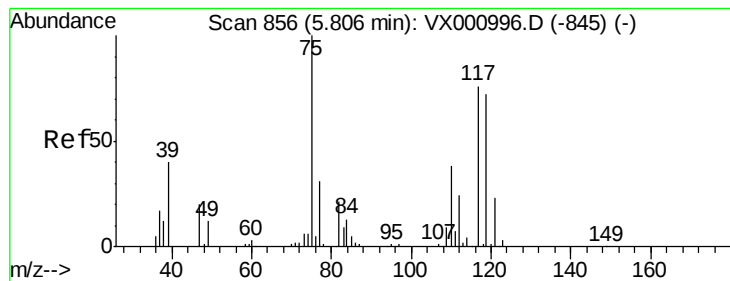
Tgt Ion:114 Resp: 293808
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 39.4
 88 15.7 0.0 29.8



#35
 Dibromofluoromethane
 Concen: 47.26 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. -0.00 min
 Lab File: VX001061.D
 Acq: 23 Apr 2018 16:19

Tgt Ion:113 Resp: 105877
 Ion Ratio Lower Upper
 113 100
 111 102.2 81.4 122.2
 192 25.5 20.4 30.6





#36

1,1-Dichloropropene

Concen: 3.80 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX001061.D

Acq: 23 Apr 2018 16:19

Instrument :

MSVOA_X

ClientSampleId :

Z1TB09-180417

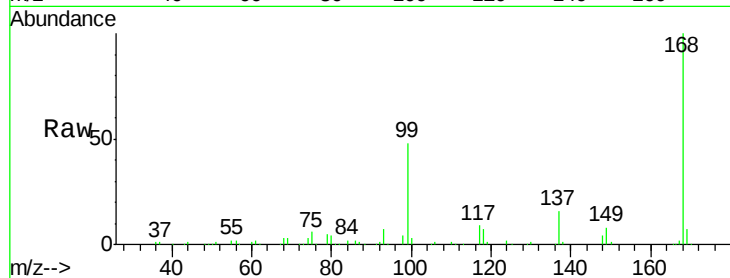
Tgt Ion: 75 Resp: 13119

Ion Ratio Lower Upper

75 100

110 10.2 18.7 56.1#

77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VX000996.D (-845) (-)

Ion 109.90 (109.60 to 110.60): VX000996.D (-845) (-)

Ion 76.90 (76.60 to 77.60): VX000996.D (-845) (-)

Time-->

5.60 5.70 5.80

5.67

4000

3000

2000

1000

0

5.60 5.70 5.80

Time-->

5.67

4000

3000

2000

1000

0

5.60 5.70 5.80

Time-->

5.67

4000

3000

2000

1000

0

5.60 5.70 5.80

Time-->

5.67

4000

3000

2000

1000

0

5.60 5.70 5.80

Time-->

5.67

4000

3000

2000

1000

0

5.60 5.70 5.80

Time-->

5.67

4000

3000

2000

1000

0

5.60 5.70 5.80

Time-->

5.67

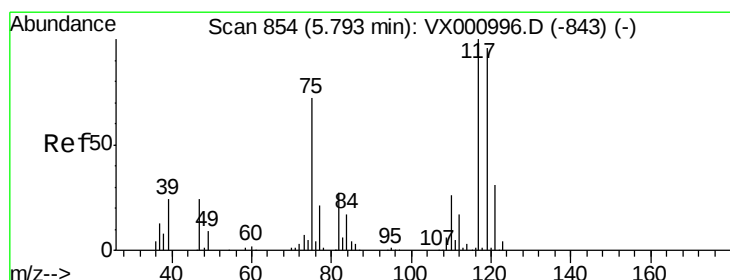
4000

3000

2000

1000

0



#38

Carbon Tetrachloride

Concen: 5.26 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX001061.D

Acq: 23 Apr 2018 16:19

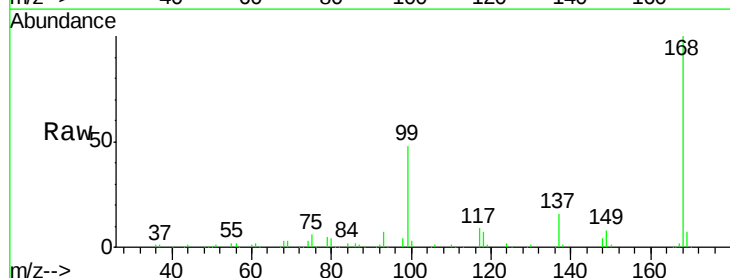
Tgt Ion: 117 Resp: 18383

Ion Ratio Lower Upper

117 100

119 5.9 76.5 114.7#

121 0.0 24.5 36.7#



Abundance Ion 116.80 (116.50 to 117.50): VX000996.D (-843) (-)

Ion 118.80 (118.50 to 119.50): VX000996.D (-843) (-)

Ion 120.80 (120.50 to 121.50): VX000996.D (-843) (-)

Time-->

5.60 5.70 5.80

5.67

4000

3000

2000

1000

0

5.60 5.70 5.80

Time-->

5.67

4000

3000

2000

1000

0

5.60 5.70 5.80

Time-->

5.67

4000

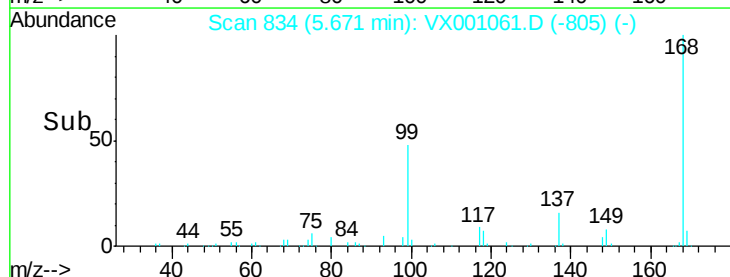
3000

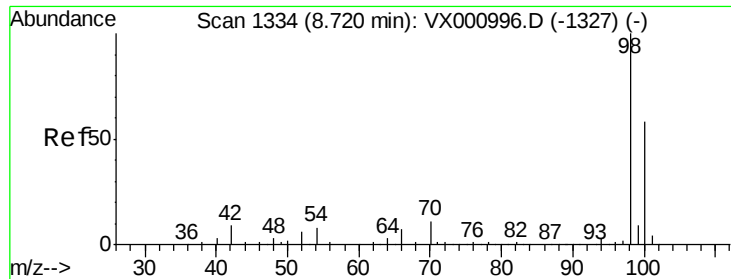
2000

1000

0

5.60 5.70 5.80





#50

Toluene-d8

Concen: 49.43 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX001061.D

Acq: 23 Apr 2018 16:19

Instrument :

MSVOA_X

ClientSampleId :

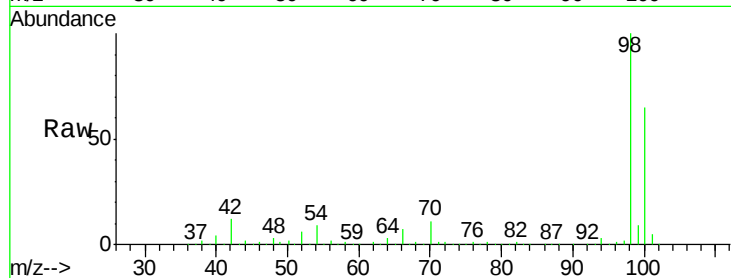
Z1TB09-180417

Tgt Ion: 98 Resp: 409517

Ion Ratio Lower Upper

98 100

100 64.5 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.72

250000

200000

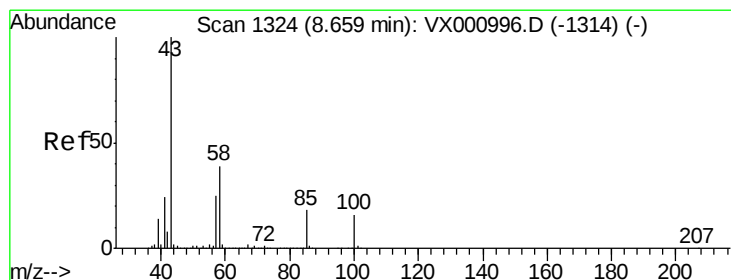
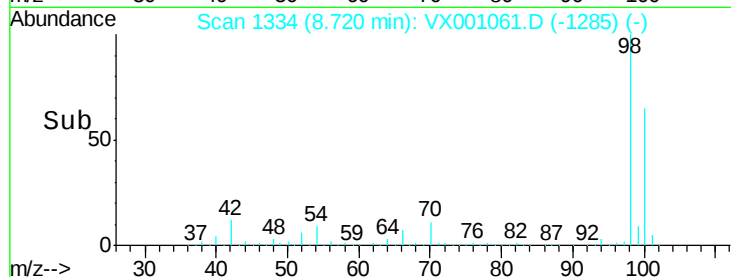
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.60 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.06 min

Lab File: VX001061.D

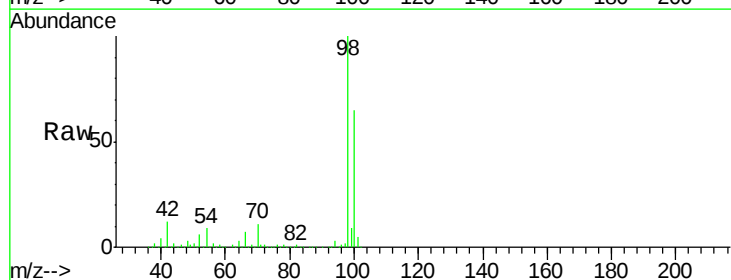
Acq: 23 Apr 2018 16:19

Tgt Ion: 43 Resp: 1986

Ion Ratio Lower Upper

43 100

58 170.4 30.2 45.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.72

2500

2000

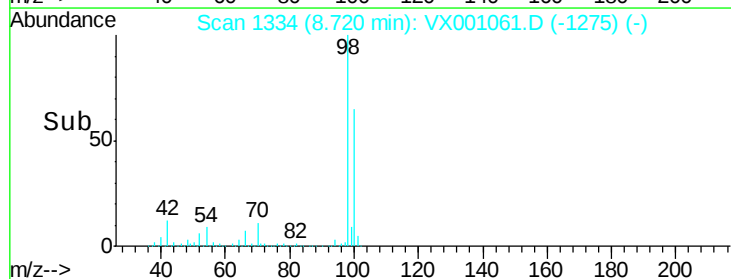
1500

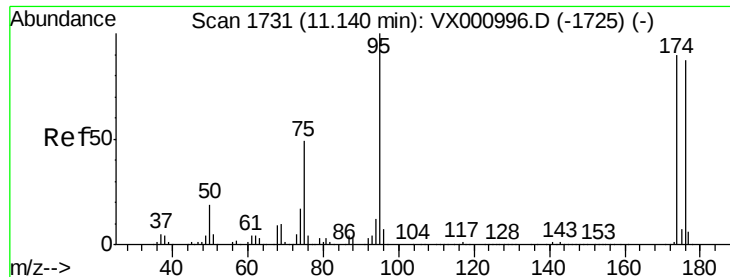
1000

500

0

Time-->

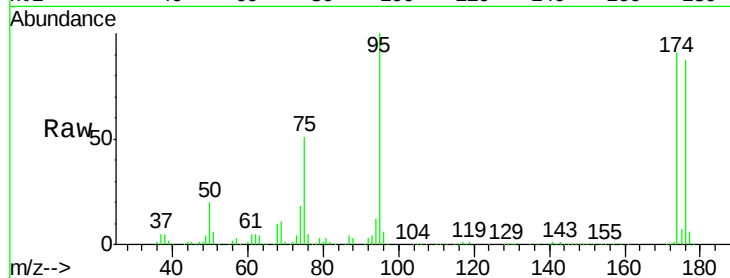




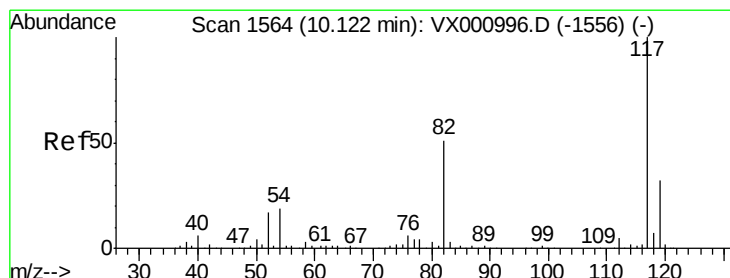
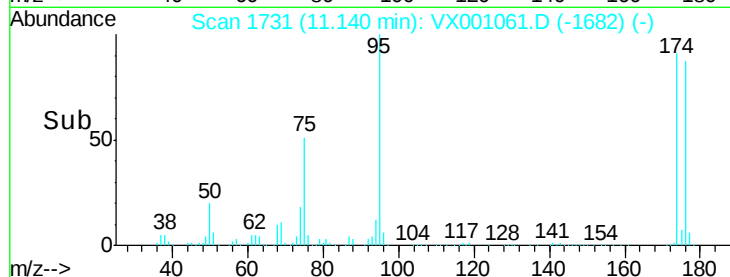
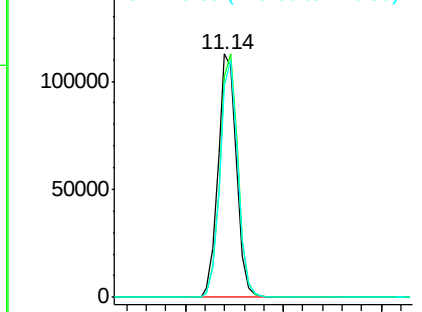
#62
4-Bromofluorobenzene
Concen: 42.01 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX001061.D
Acq: 23 Apr 2018 16:19

Instrument :
MSVOA_X
ClientSampleId :
Z1TB09-180417

Tgt Ion: 95 Resp: 146039
Ion Ratio Lower Upper
95 100
174 97.8 0.0 198.4
176 94.9 0.0 192.0

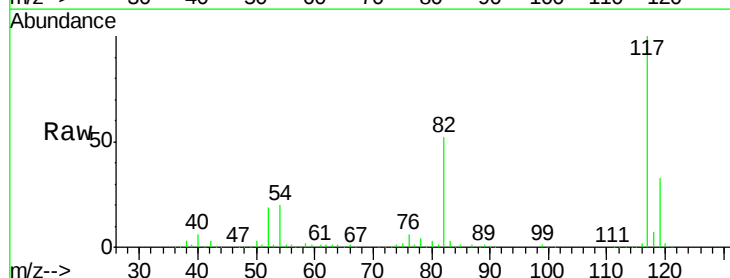


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

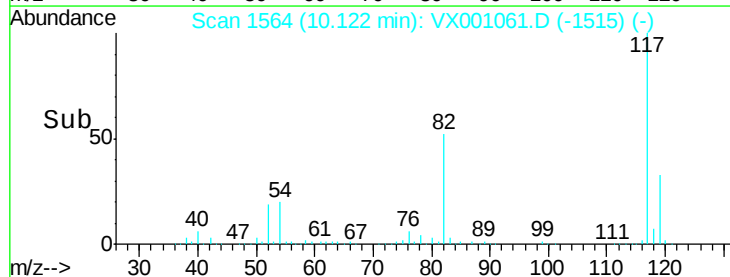
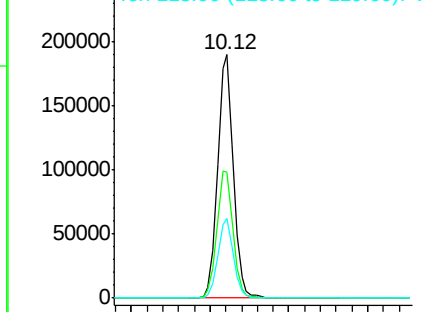


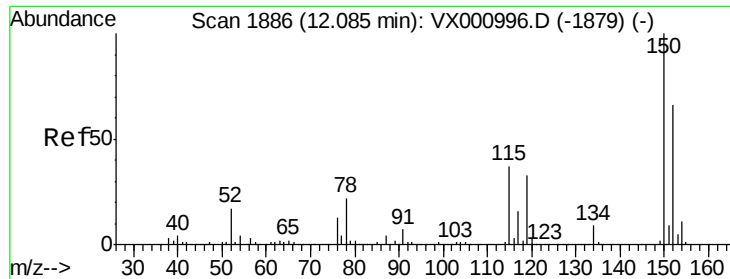
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VX001061.D
Acq: 23 Apr 2018 16:19

Tgt Ion: 117 Resp: 264006
Ion Ratio Lower Upper
117 100
82 51.6 40.6 60.8
119 32.6 26.0 39.0



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: VX001061.D

Acq: 23 Apr 2018 16:19

Instrument :

MSVOA_X

ClientSampled :

Z1TB09-180417

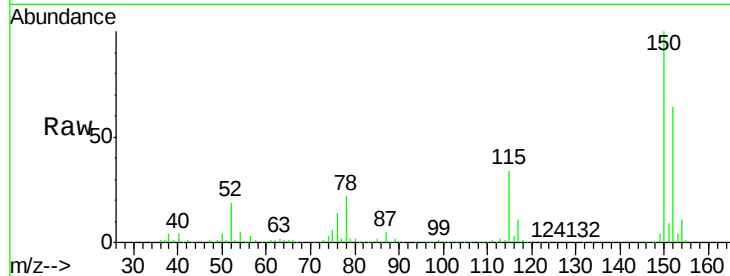
Tgt Ion:152 Resp: 152431

Ion Ratio Lower Upper

152 100

115 53.9 38.2 114.6

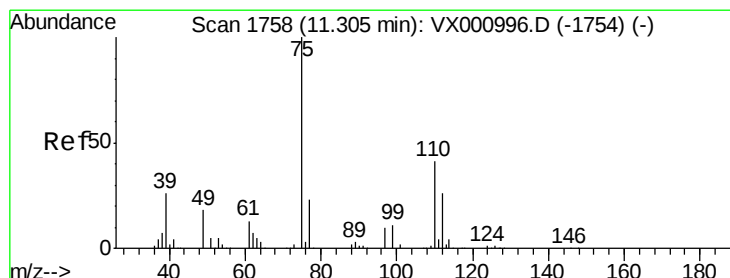
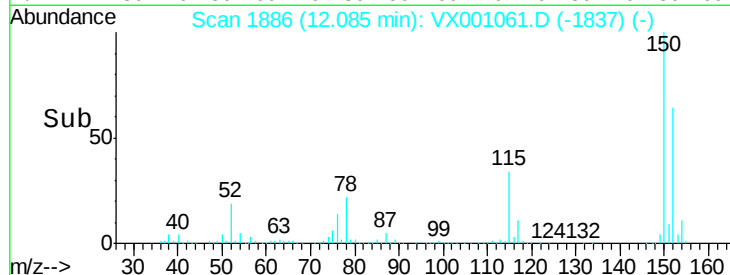
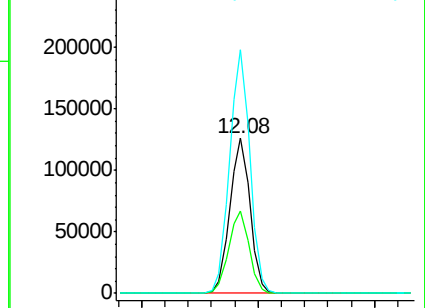
150 156.9 0.0 350.4



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: 28.09 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001061.D

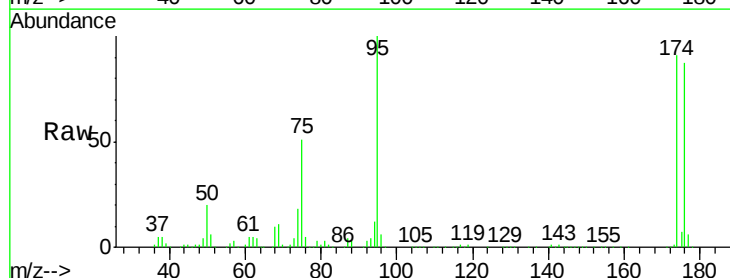
Acq: 23 Apr 2018 16:19

Tgt Ion: 75 Resp: 74276

Ion Ratio Lower Upper

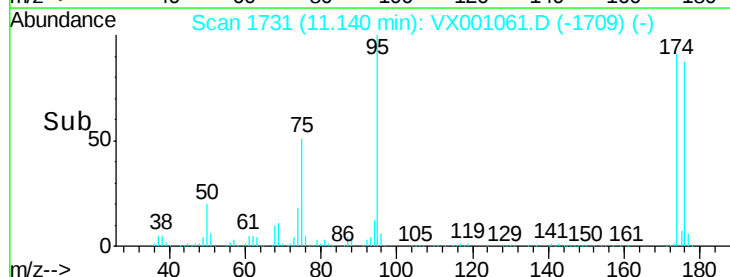
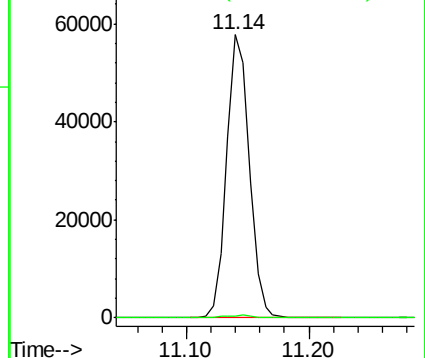
75 100

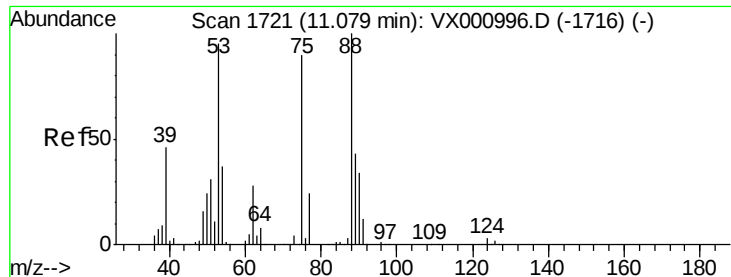
77 1.1 19.6 58.7#



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: 83.84 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001061.D

Acq: 23 Apr 2018 16:19

Instrument :

MSVOA_X

ClientSampleId :

Z1TB09-180417

Tgt Ion: 75 Resp: 74276

Ion Ratio Lower Upper

75 100

53 0.0 83.4 125.2#

89 0.0 39.7 59.5#

