

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062118\
 Data File : VX002786.D
 Acq On : 21 Jun 2018 14:17
 Operator : JC/MD
 Sample : PB110456TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB110456TB

Quant Time: Jun 22 01:09:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:37:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	235429	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	329699	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	306543	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	166700	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	160647	44.90	ug/l	0.00
Spiked Amount			Recovery	=	89.80%	
35) Dibromofluoromethane	5.51	113	127584	48.49	ug/l	0.00
Spiked Amount			Recovery	=	96.98%	
50) Toluene-d8	8.72	98	468472	46.89	ug/l	0.00
Spiked Amount			Recovery	=	93.78%	
62) 4-Bromofluorobenzene	11.14	95	161873	42.76	ug/l	0.00
Spiked Amount			Recovery	=	85.52%	

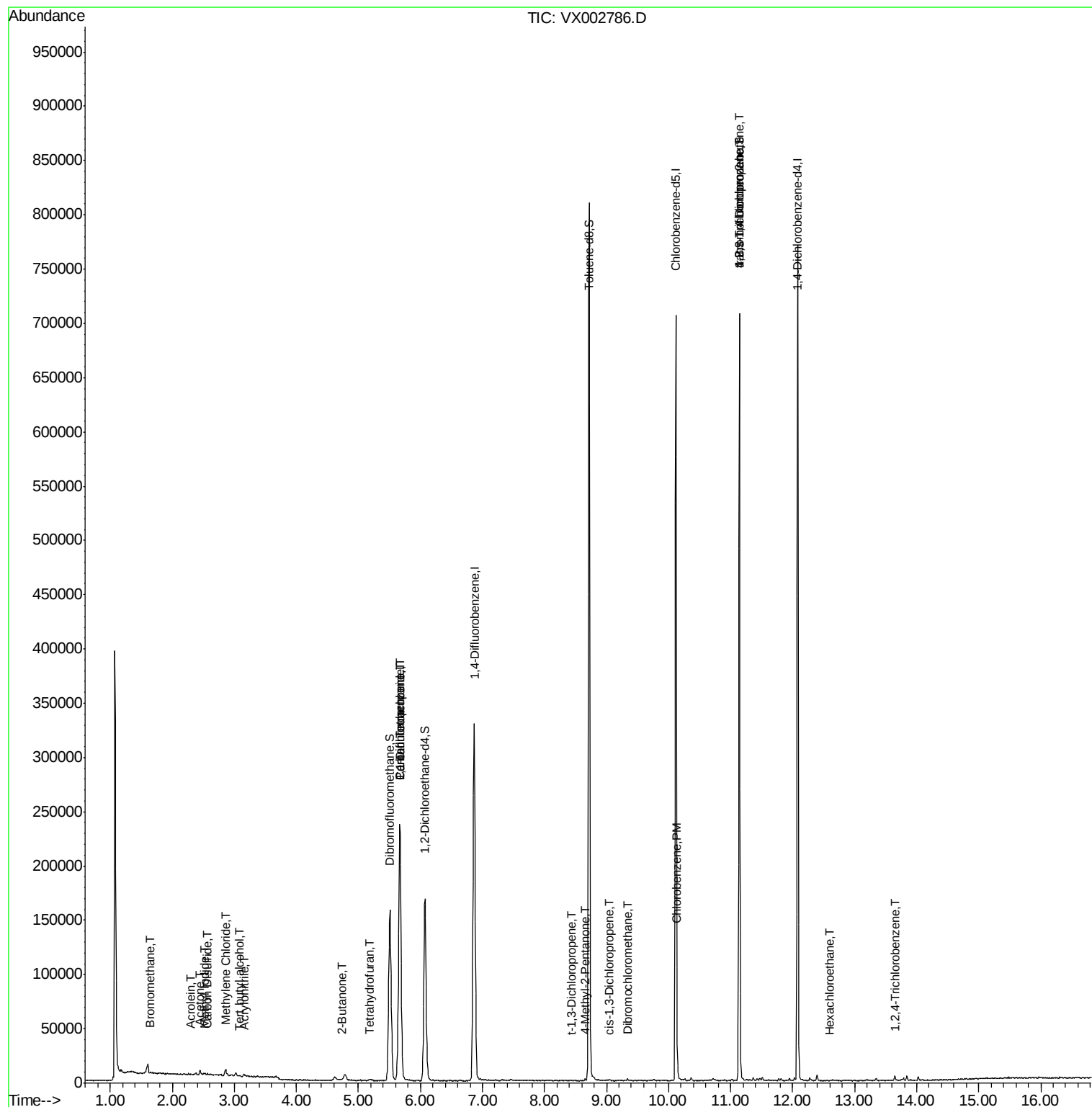
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1210	0.65	ug/l #	70
10) Methyl Iodide	2.52	142	1840	5.62	ug/l #	90
11) Tert butyl alcohol	3.08	59	207	0.28	ug/l #	1
13) Acrolein	2.30	56	635	8.64	ug/l #	78
15) Acrylonitrile	3.15	53	669	0.41	ug/l #	84
16) Acetone	2.45	43	4824	3.06	ug/l	98
17) Carbon Disulfide	2.57	76	1946	0.31	ug/l	99
20) Methylene Chloride	2.86	84	2533	0.78	ug/l	88
25) 2-Butanone	4.72	43	1282	0.62	ug/l	99
29) Tetrahydrofuran	5.18	42	1297	0.95	ug/l #	66
36) 1,1-Dichloropropene	5.67	75	16469	4.70	ug/l #	51
38) Carbon Tetrachloride	5.67	117	21750	6.24	ug/l #	16
51) 4-Methyl-2-Pentanone	8.65	43	937	0.22	ug/l	91
53) t-1,3-Dichloropropene	8.44	75	227	2.44	ug/l #	62
54) cis-1,3-Dichloropropene	9.04	75	203	3.26	ug/l #	63
60) Dibromochloromethane	9.34	129	230	3.83	ug/l #	11
65) Chlorobenzene	10.14	112	2875	0.38	ug/l	94
76) 1,2,3-Trichloropropane	11.14	75	85794	27.27	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	85794	84.15	ug/l #	7
90) Hexachloroethane	12.60	117	19	2.64	ug/l #	1
93) 1,2,4-Trichlorobenzene	13.65	180	881	0.21	ug/l	82

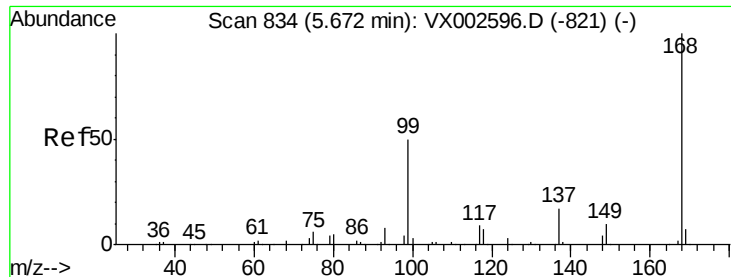
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 22 01:09:25 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:37:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX002786.D

Acq: 21 Jun 2018 14:17

Instrument :

MSVOA_X

ClientSampleId :

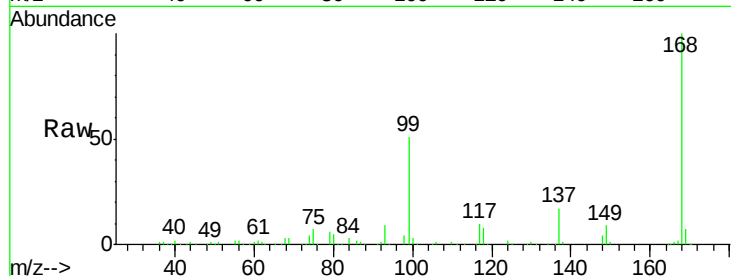
PB110456TB

Tot Ion:168 Resp: 235429

Ion Ratio Lower Upper

168 100

99 50.7 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

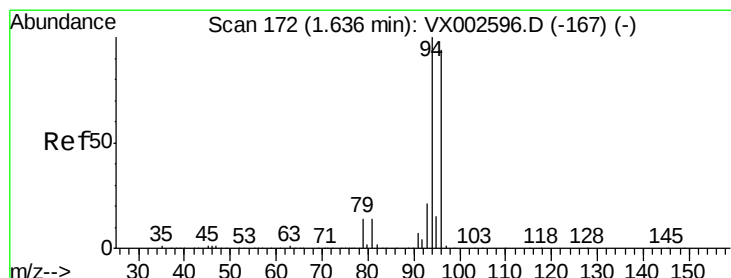
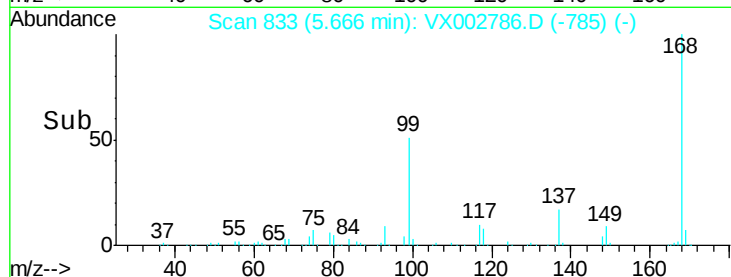
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.65 ug/l

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002786.D

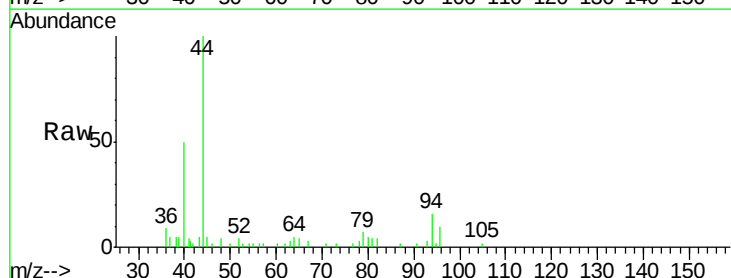
Acq: 21 Jun 2018 14:17

Tgt Ion: 94 Resp: 1210

Ion Ratio Lower Upper

94 100

96 65.1 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

600

500

400

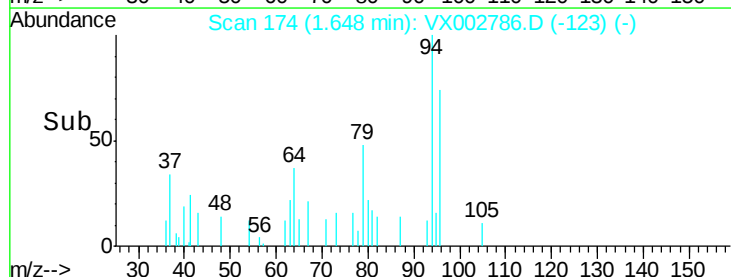
300

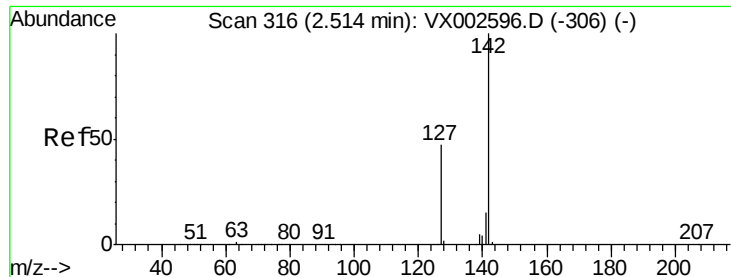
200

100

0

Time--> 1.55 1.60 1.65 1.70 1.75

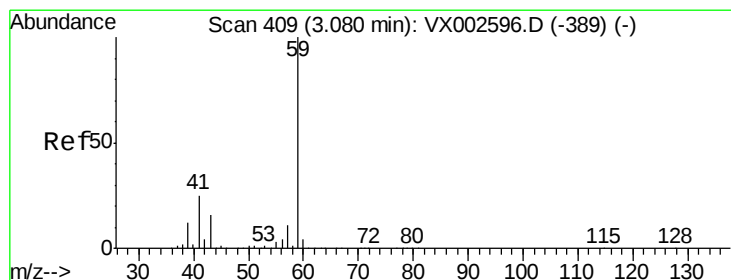
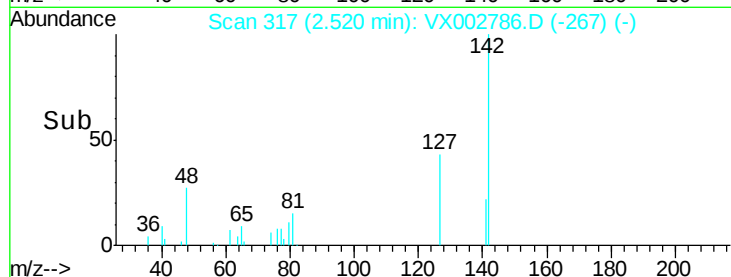
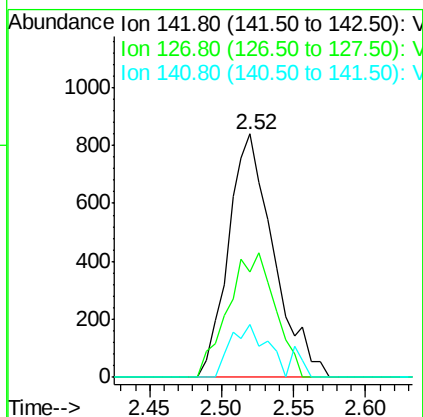
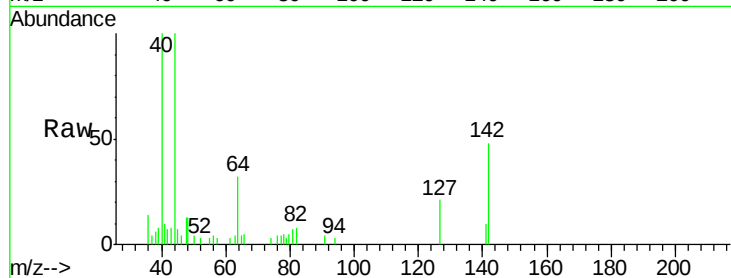




#10
Methyl Iodide
Concen: 5.62 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002786.D
Acq: 21 Jun 2018 14:17

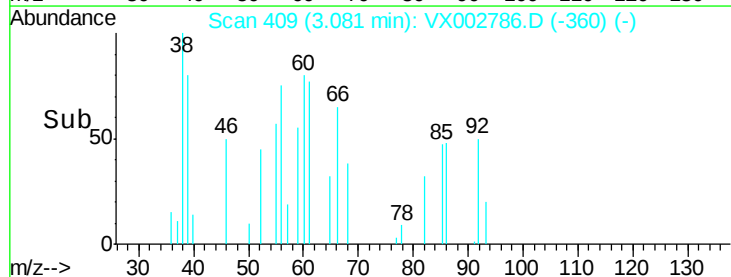
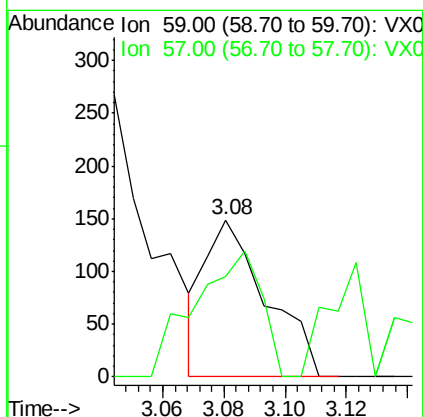
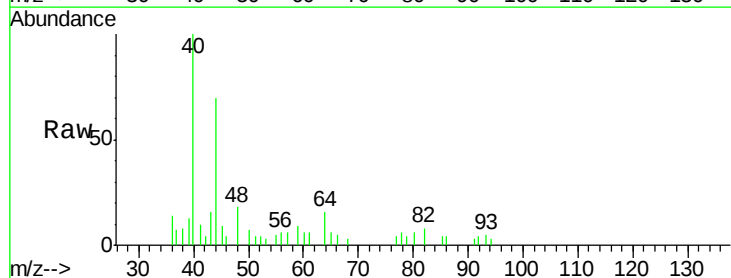
Instrument :
MSVOA_X
ClientSampled :
PB110456TB

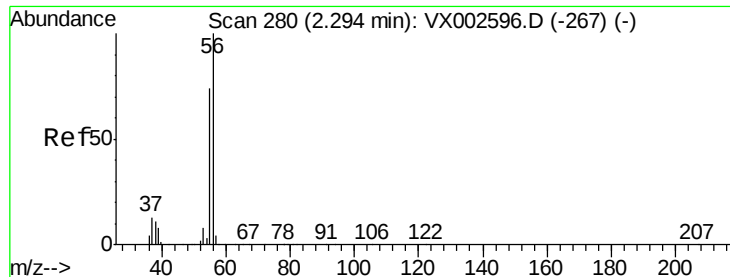
Tot Ion:142 Resp: 1840
Ion Ratio Lower Upper
142 100
127 52.6 36.6 55.0
141 17.4 11.3 16.9#



#11
Tert butyl alcohol
Concen: 0.28 ug/l
RT: 3.08 min Scan# 409
Delta R.T. 0.00 min
Lab File: VX002786.D
Acq: 21 Jun 2018 14:17

Tgt Ion: 59 Resp: 207
Ion Ratio Lower Upper
59 100
57 87.0 8.2 12.2#





#13

Acrolein

Concen: 8.64 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX002786.D

Acq: 21 Jun 2018 14:17

Instrument :

MSVOA_X

ClientSampled :

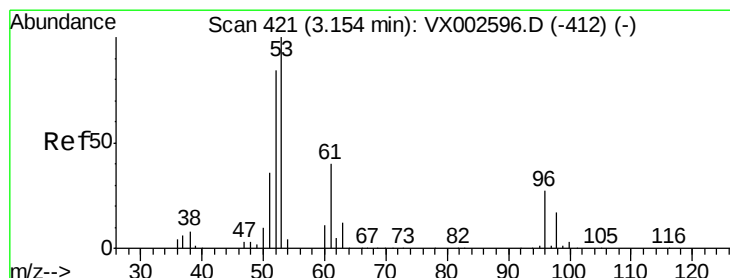
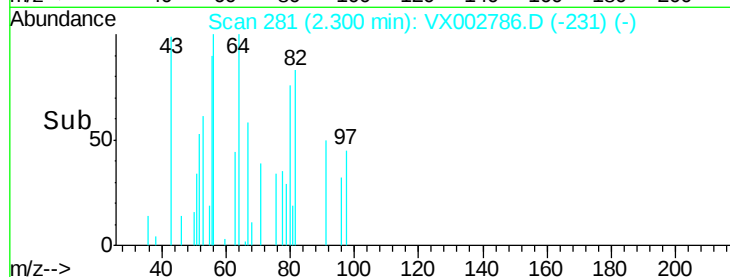
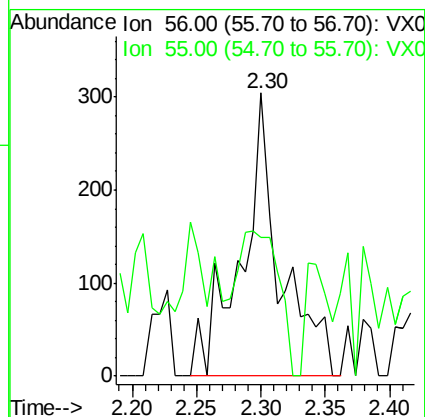
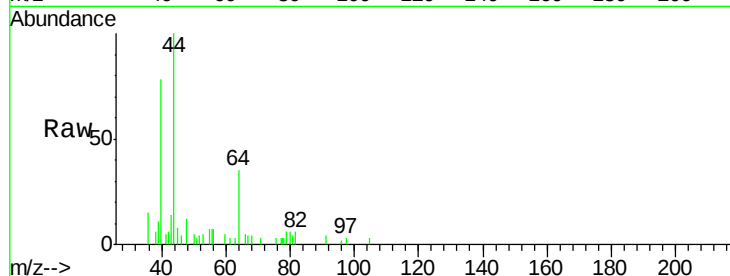
PB110456TB

Tot Ion: 56 Resp: 635

Ion Ratio Lower Upper

56 100

55 52.8 57.0 85.4#



#15

Acrylonitrile

Concen: 0.41 ug/l

RT: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX002786.D

Acq: 21 Jun 2018 14:17

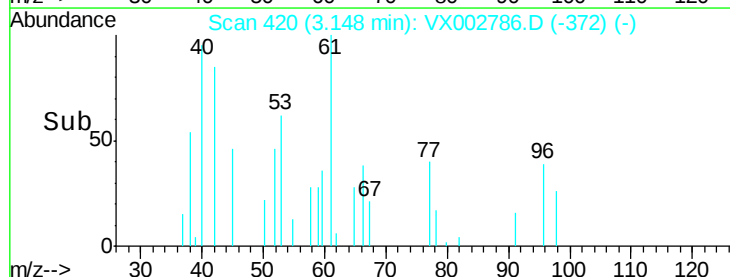
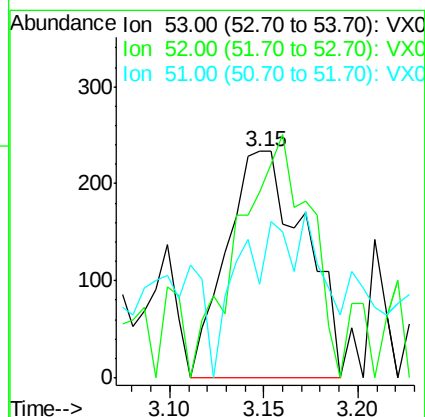
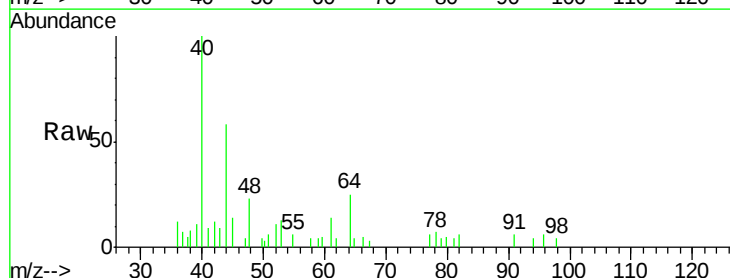
Tgt Ion: 53 Resp: 669

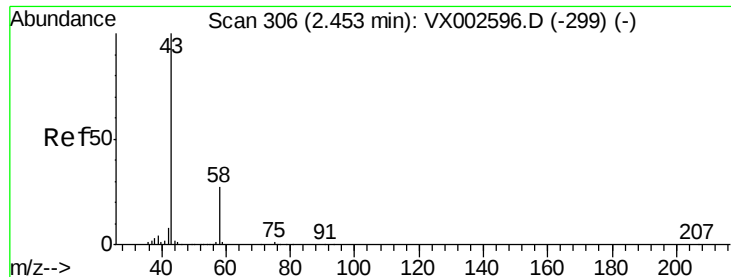
Ion Ratio Lower Upper

53 100

52 97.6 66.7 100.1

51 47.2 29.9 44.9#





#16

Acetone

Concen: 3.06 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002786.D

Acq: 21 Jun 2018 14:17

Instrument :

MSVOA_X

ClientSampleId :

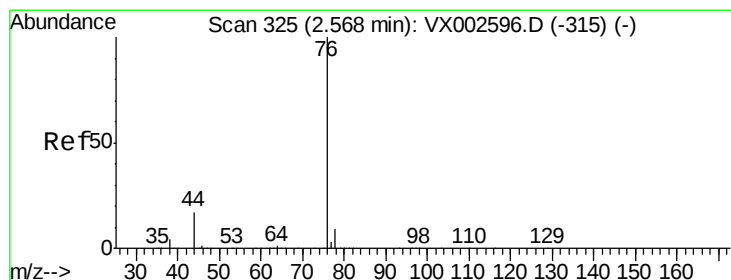
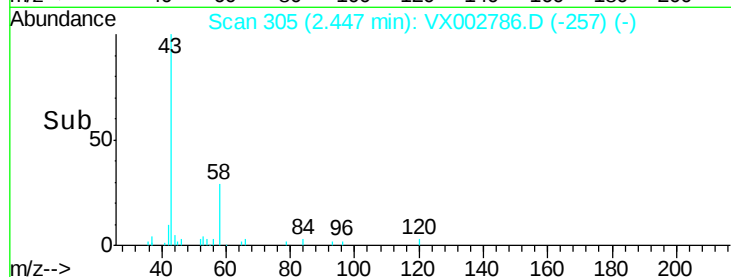
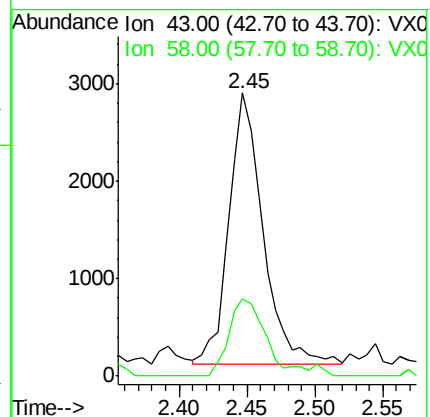
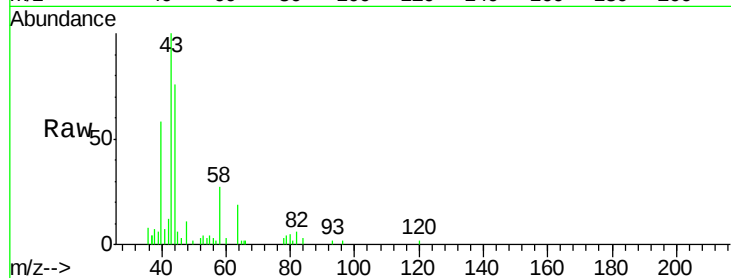
PB110456TB

Tot Ion: 43 Resp: 4824

Ion Ratio Lower Upper

43 100

58 28.8 22.1 33.1



#17

Carbon Disulfide

Concen: 0.31 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX002786.D

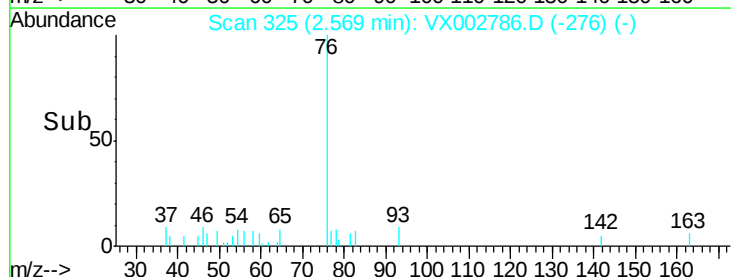
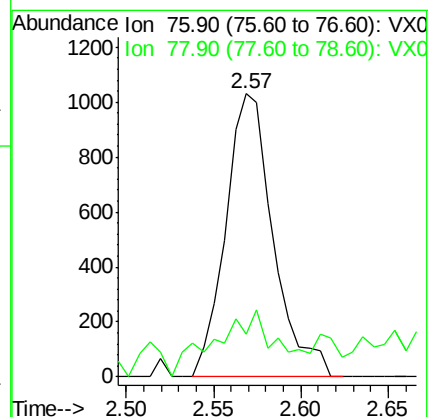
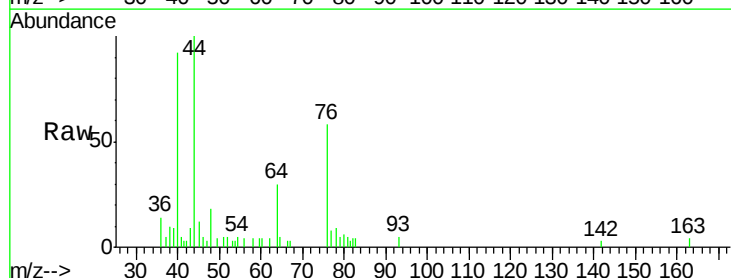
Acq: 21 Jun 2018 14:17

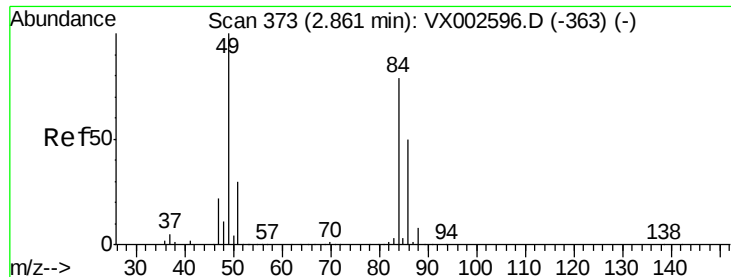
Tgt Ion: 76 Resp: 1946

Ion Ratio Lower Upper

76 100

78 8.3 6.9 10.3





#20

Methylene Chloride

Concen: 0.78 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX002786.D

Acq: 21 Jun 2018 14:17

Instrument :

MSVOA_X

ClientSampleId :

PB110456TB

Tot Ion: 84 Resp: 2533

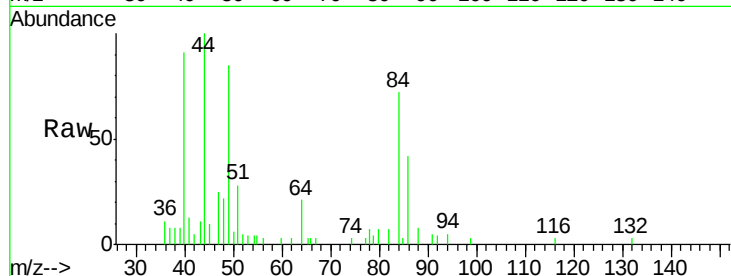
Ion Ratio Lower Upper

84 100

49 117.9 107.8 161.6

51 34.6 32.8 49.2

86 58.0 52.5 78.7

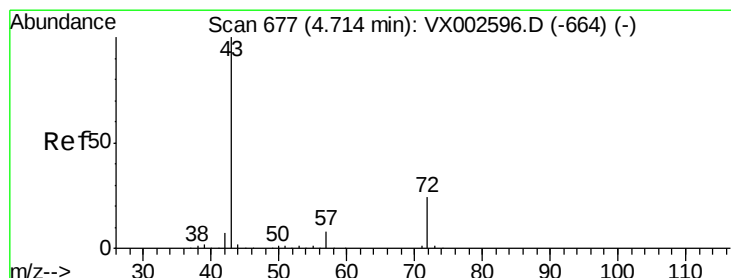
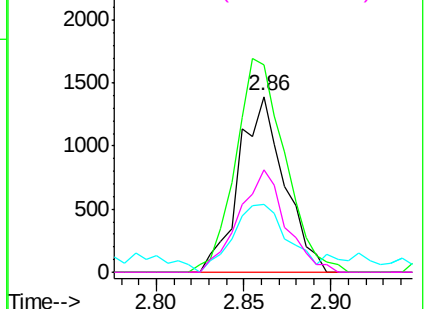
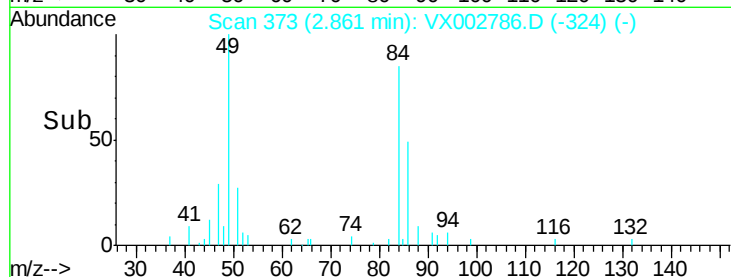


Abundance Ion 83.90 (83.60 to 84.60): VX0

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: 0.62 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX002786.D

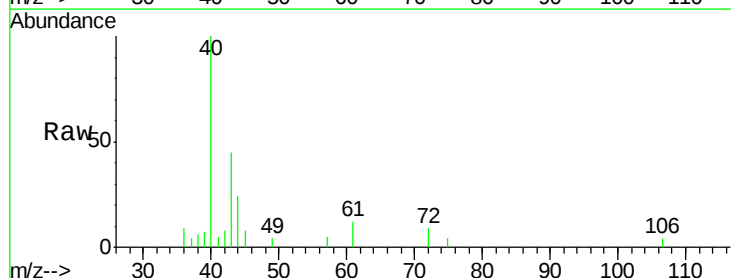
Acq: 21 Jun 2018 14:17

Tgt Ion: 43 Resp: 1282

Ion Ratio Lower Upper

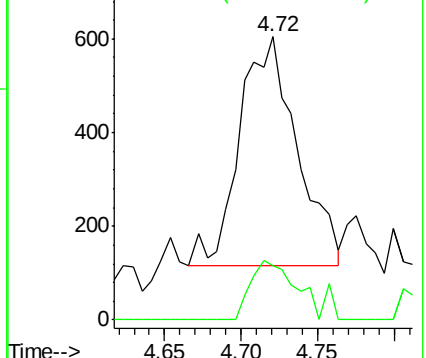
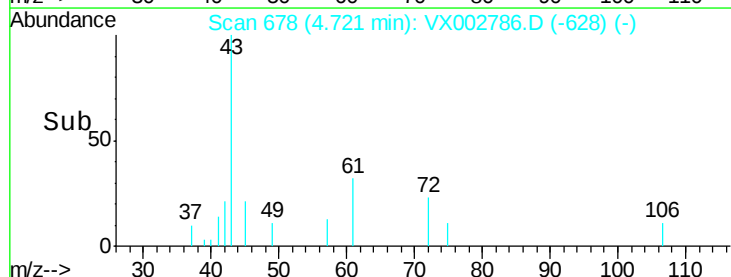
43 100

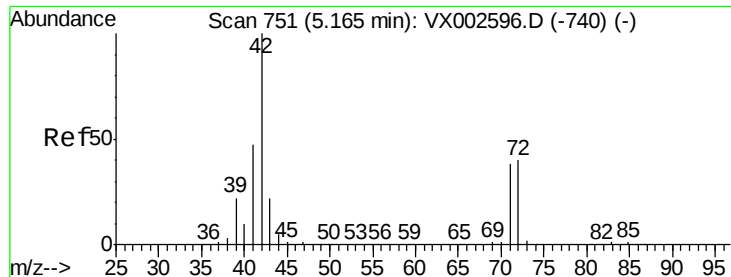
72 23.7 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.95 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX002786.D

Acq: 21 Jun 2018 14:17

Instrument :

MSVOA_X

ClientSampled :

PB110456TB

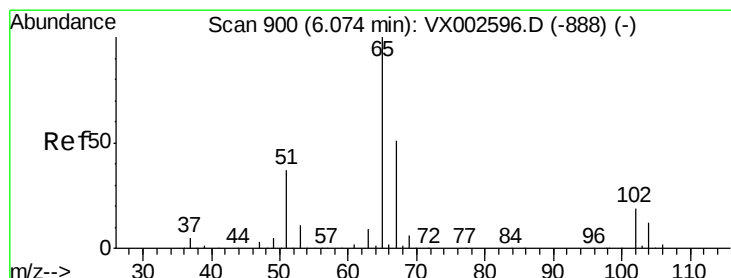
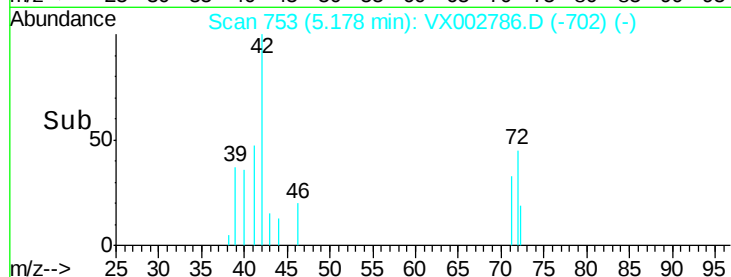
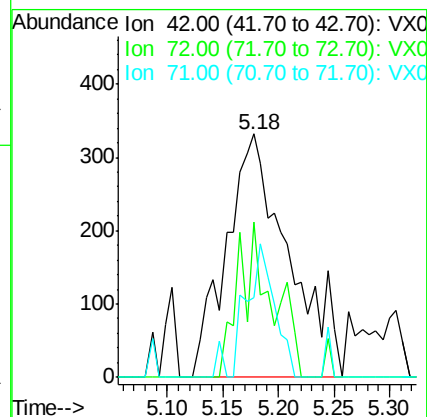
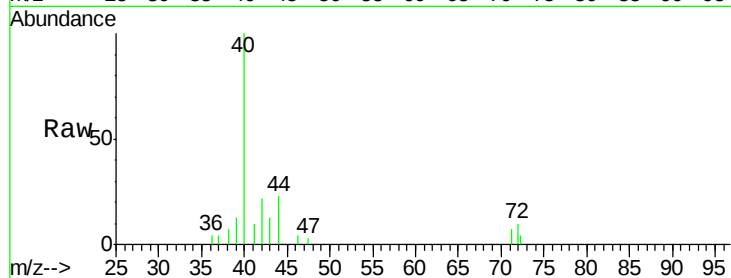
Tot Ion: 42 Resp: 1297

Ion Ratio Lower Upper

42 100

72 11.8 32.0 48.0#

71 24.1 30.1 45.1#



#33

1,2-Dichloroethane-d4

Concen: 44.90 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002786.D

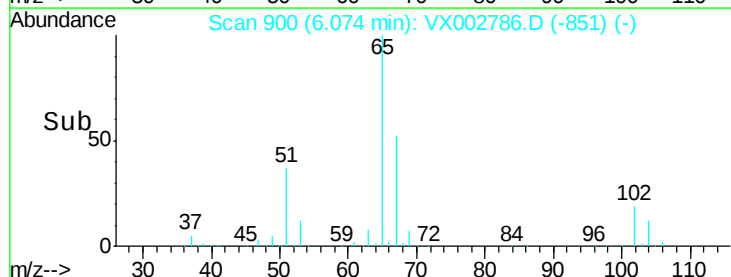
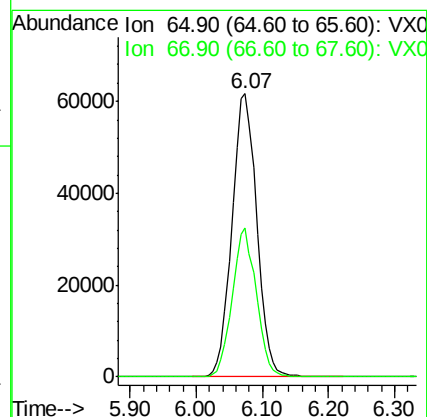
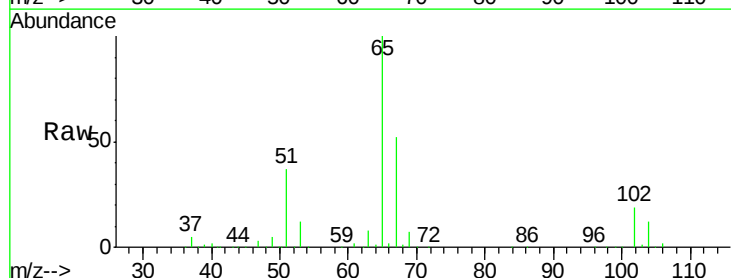
Acq: 21 Jun 2018 14:17

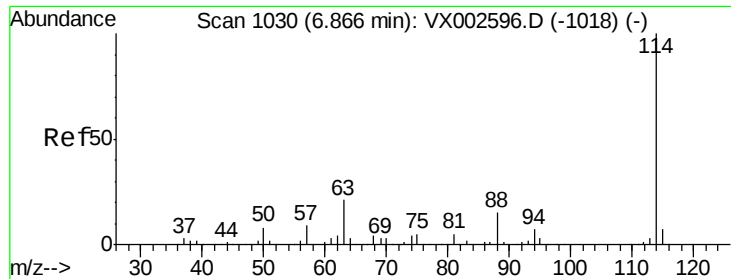
Tgt Ion: 65 Resp: 160647

Ion Ratio Lower Upper

65 100

67 50.9 0.0 102.6

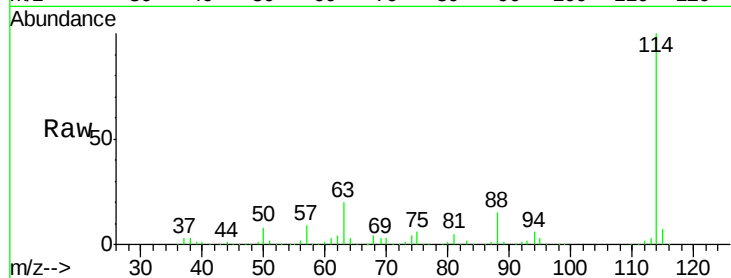




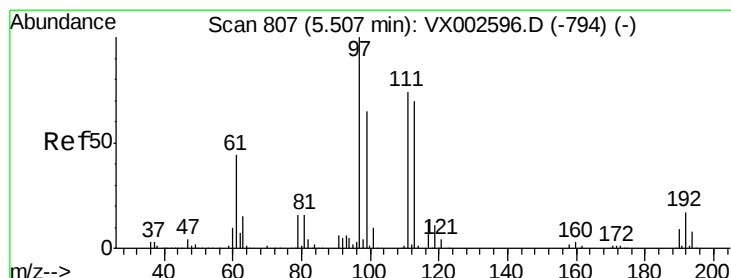
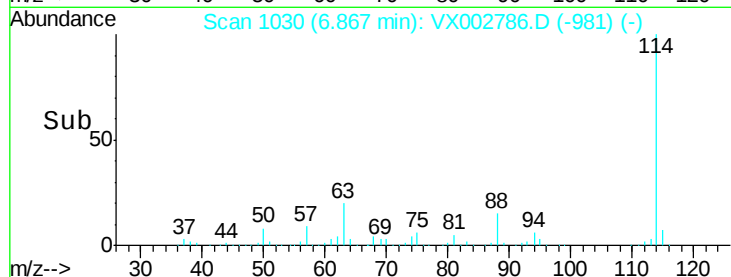
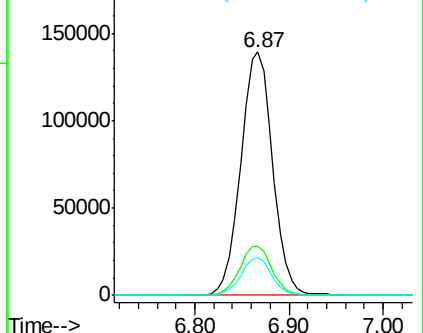
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002786.D
 Acq: 21 Jun 2018 14:17

Instrument :
 MSVOA_X
 ClientSampleId :
 PB110456TB

Tot Ion:114 Resp: 329699
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 41.4
 88 15.3 0.0 30.0

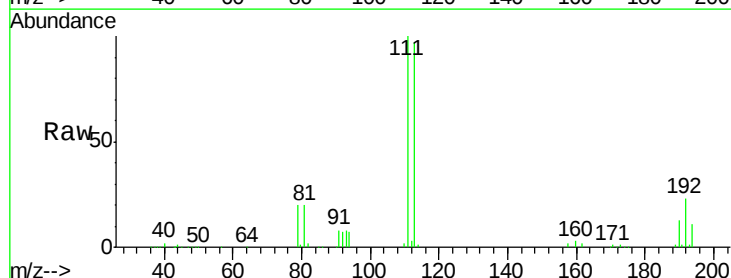


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX
 Ion 87.90 (87.60 to 88.60): VX

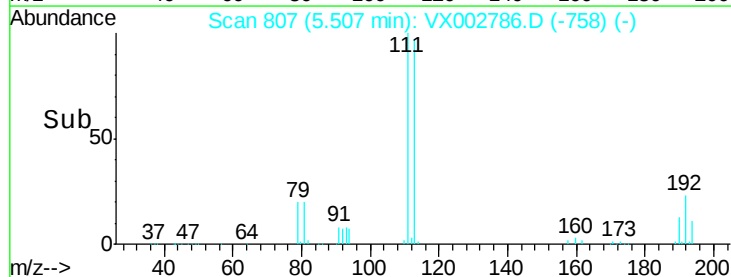
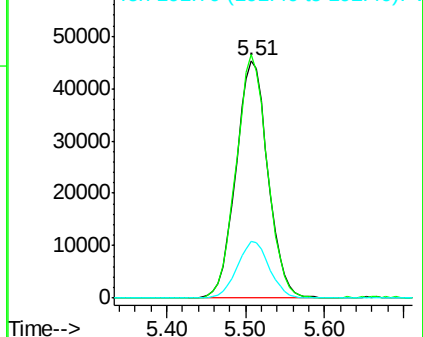


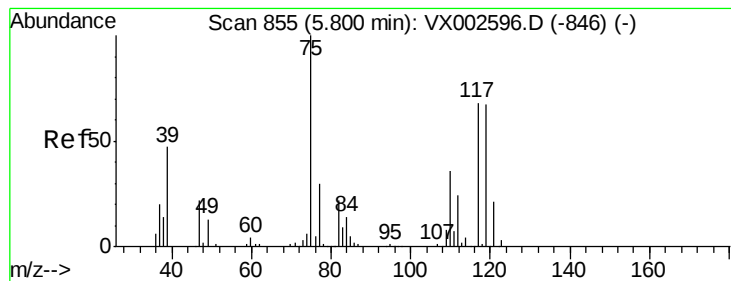
#35
 Dibromofluoromethane
 Concen: 48.49 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.00 min
 Lab File: VX002786.D
 Acq: 21 Jun 2018 14:17

Tgt Ion:113 Resp: 127584
 Ion Ratio Lower Upper
 113 100
 111 100.3 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: 4.70 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX002786.D

Acq: 21 Jun 2018 14:17

Instrument :

MSVOA_X

ClientSampleId :

PB110456TB

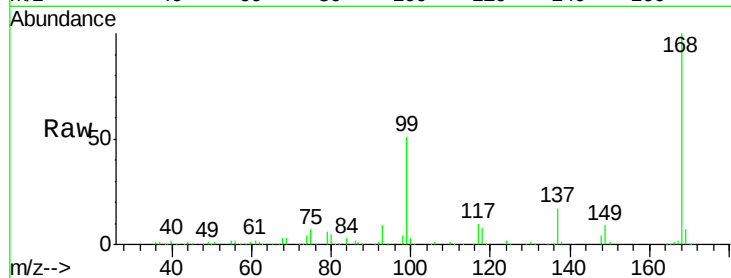
Tot Ion: 75 Resp: 16469

Ion Ratio Lower Upper

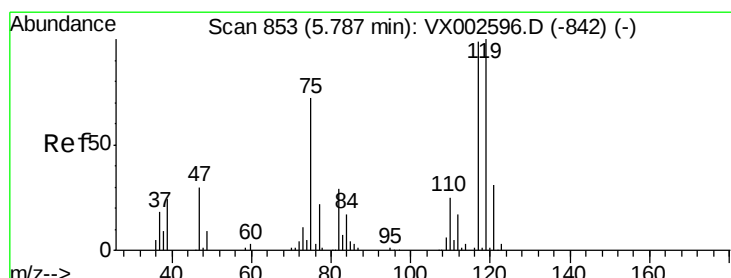
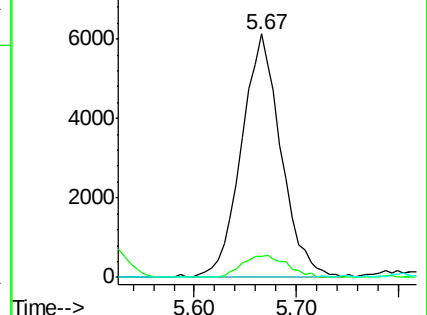
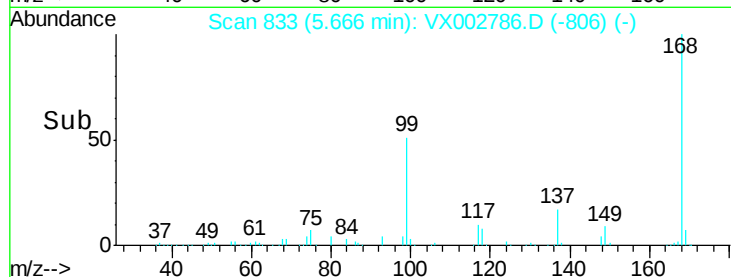
75 100

110 10.3 18.1 54.4#

77 0.0 24.3 36.5#



Abundance Ion 74.90 (74.60 to 75.60): VX002786.D (-806) (-)



#38

Carbon Tetrachloride

Concen: 6.24 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002786.D

Acq: 21 Jun 2018 14:17

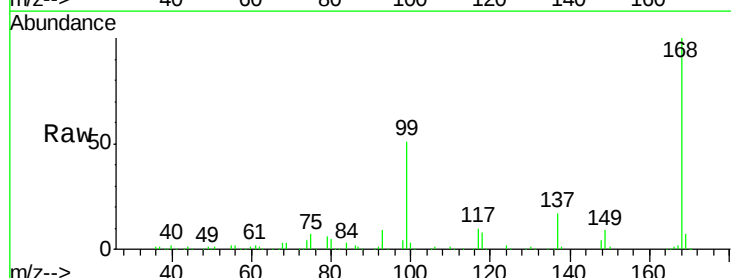
Tgt Ion: 117 Resp: 21750

Ion Ratio Lower Upper

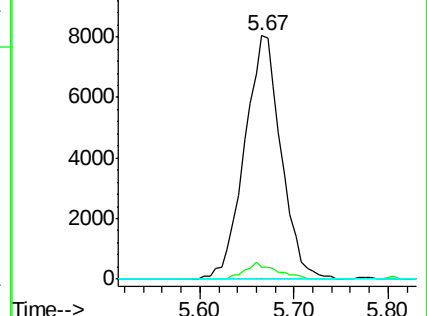
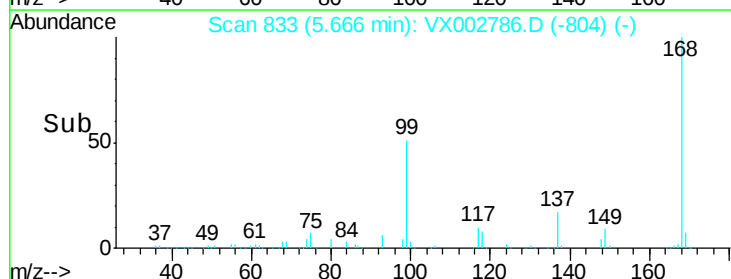
117 100

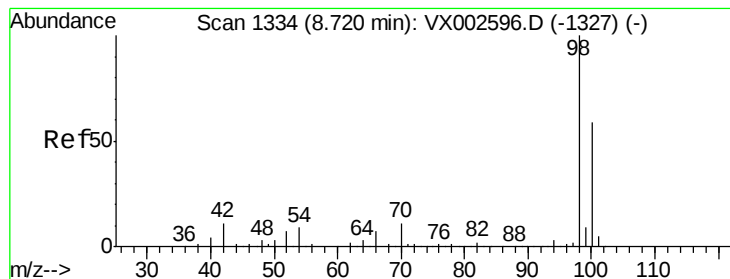
119 5.1 77.4 116.0#

121 0.0 24.4 36.6#



Abundance Ion 116.80 (116.50 to 117.50): VX002786.D (-804) (-)





#50

Toluene-d8

Concen: 46.89 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002786.D

Acq: 21 Jun 2018 14:17

Instrument :

MSVOA_X

ClientSampleId :

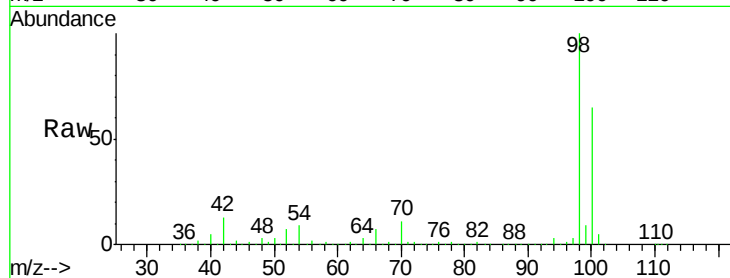
PB110456TB

Tot Ion: 98 Resp: 468472

Ion Ratio Lower Upper

98 100

100 63.8 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

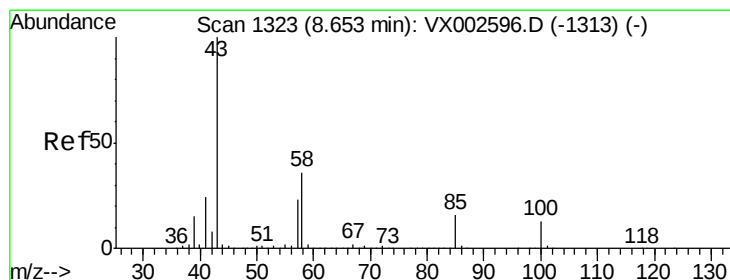
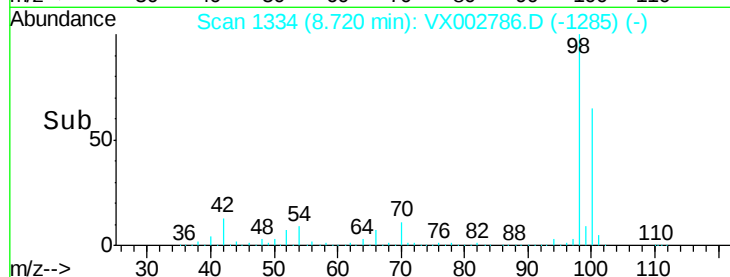
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.22 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. 0.00 min

Lab File: VX002786.D

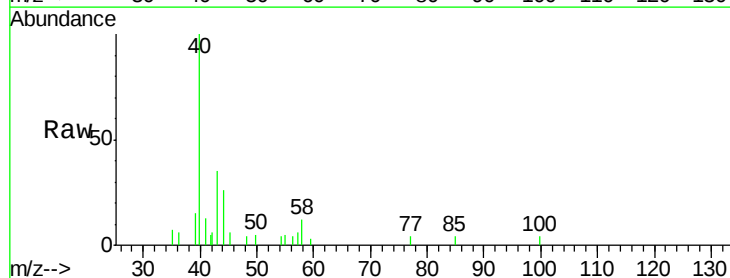
Acq: 21 Jun 2018 14:17

Tgt Ion: 43 Resp: 937

Ion Ratio Lower Upper

43 100

58 30.5 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2500

2000

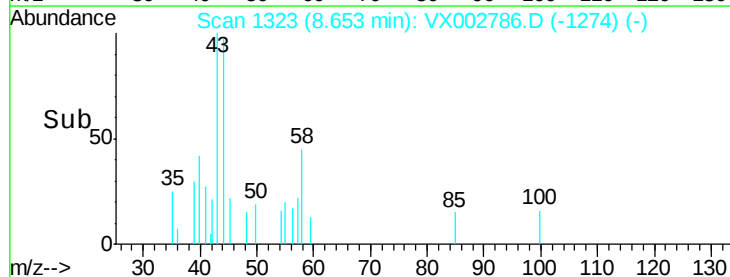
1500

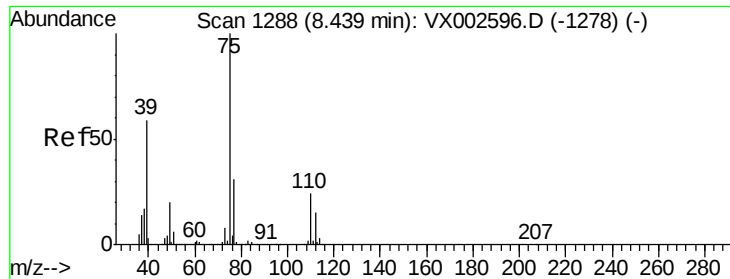
1000

500

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 2.44 ug/l

RT: 8.44 min Scan# 1288

Delta R.T. 0.00 min

Lab File: VX002786.D

Acq: 21 Jun 2018 14:17

Instrument :

MSVOA_X

ClientSampleId :

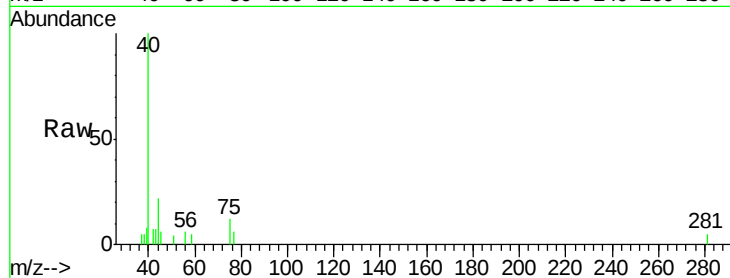
PB110456TB

Tot Ion: 75 Resp: 227

Ion Ratio Lower Upper

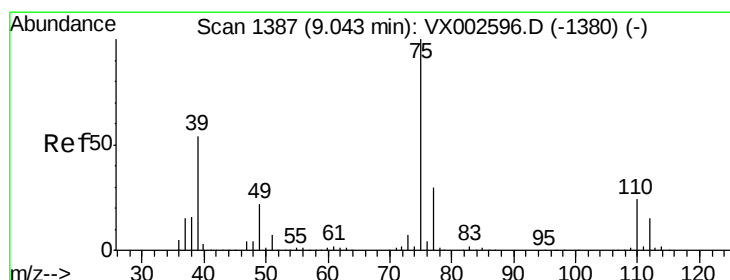
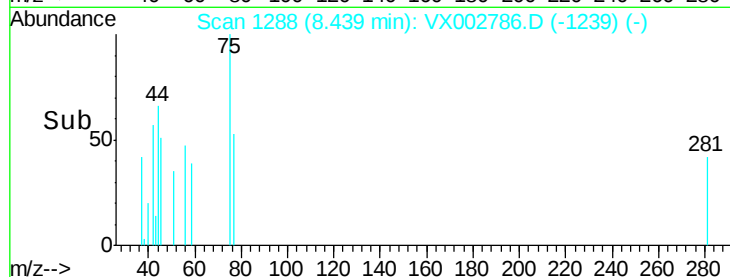
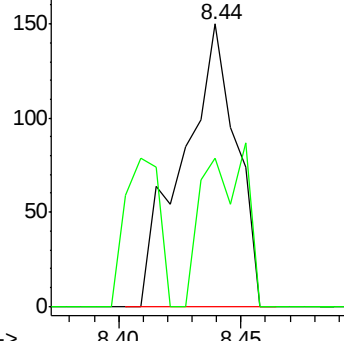
75 100

77 52.7 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#54

cis-1,3-Dichloropropene

Concen: 3.26 ug/l

RT: 9.04 min Scan# 1386

Delta R.T. -0.01 min

Lab File: VX002786.D

Acq: 21 Jun 2018 14:17

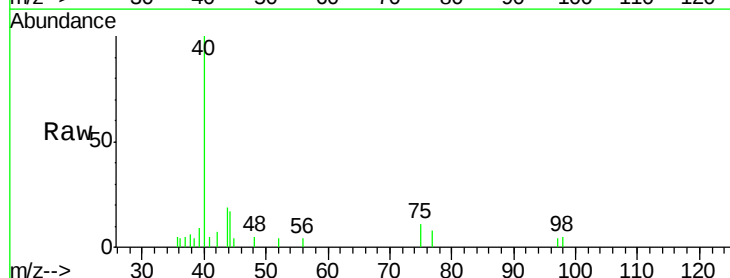
Tgt Ion: 75 Resp: 203

Ion Ratio Lower Upper

75 100

77 71.5 24.8 37.2#

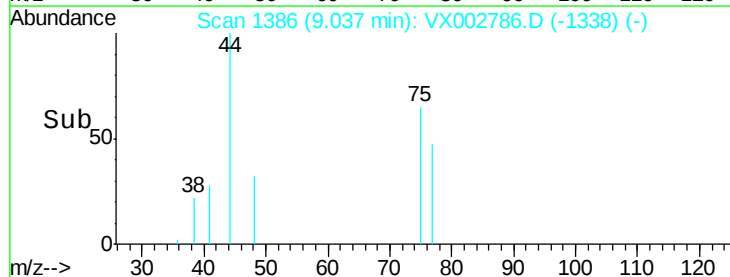
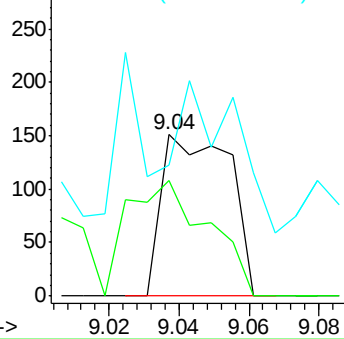
39 41.7 42.4 63.6#

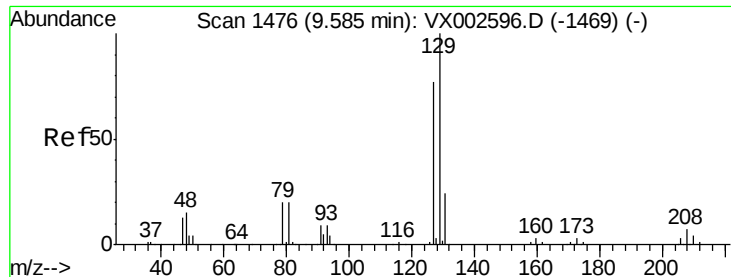


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0





#60

Dibromochloromethane

Concen: 3.83 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.24 min

Lab File: VX002786.D

Acq: 21 Jun 2018 14:17

Instrument :

MSVOA_X

ClientSampleId :

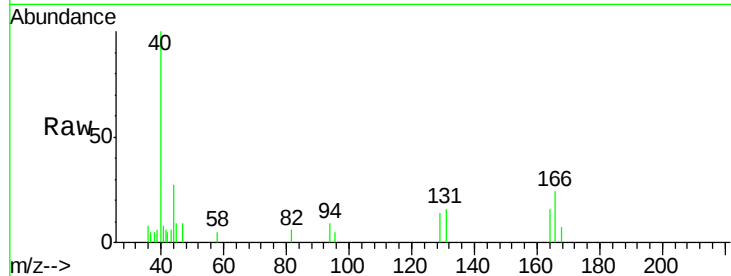
PB110456TB

Tot Ion:129 Resp: 230

Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.34

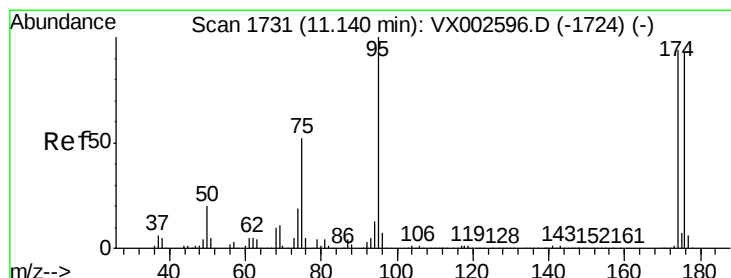
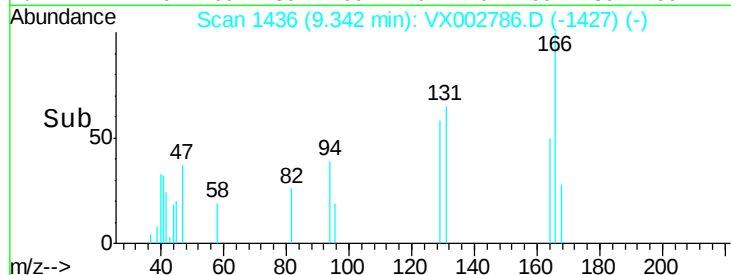
150

100

50

0

Time-->



#62

4-Bromofluorobenzene

Concen: 42.76 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002786.D

Acq: 21 Jun 2018 14:17

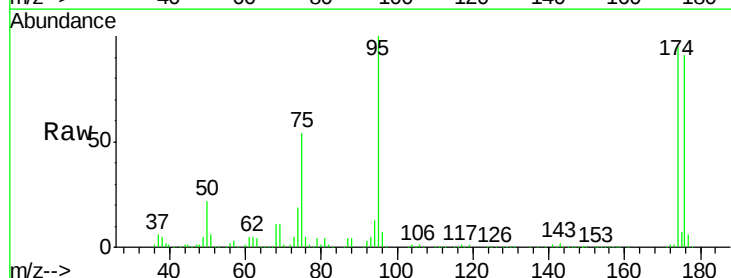
Tgt Ion: 95 Resp: 161873

Ion Ratio Lower Upper

95 100

174 96.7 0.0 187.4

176 94.6 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

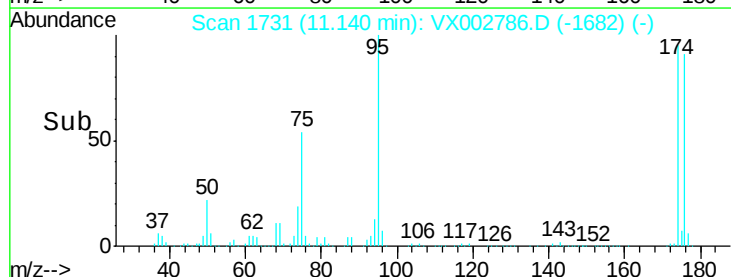
150000

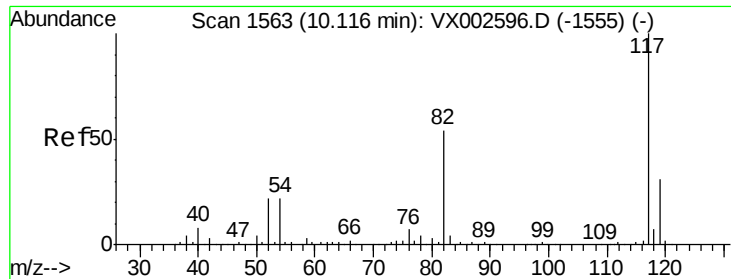
100000

50000

0

Time-->

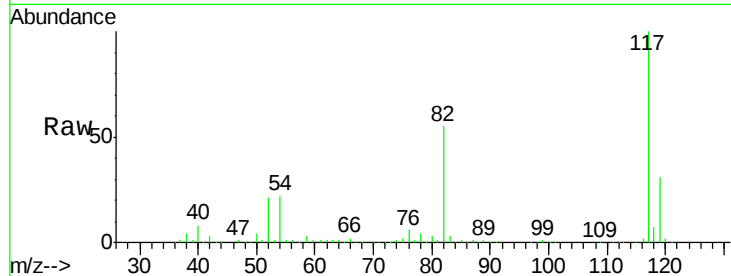




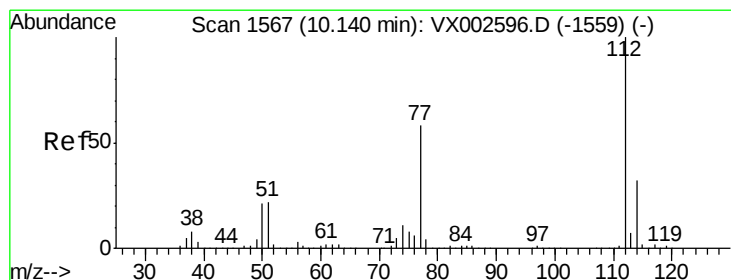
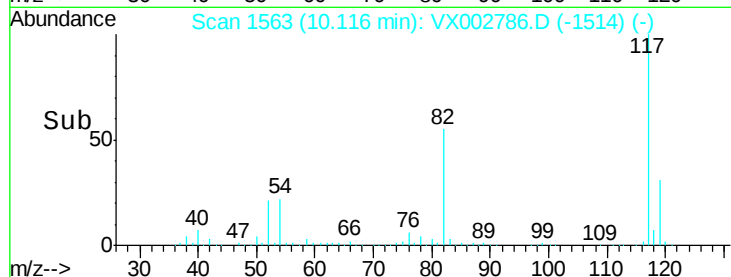
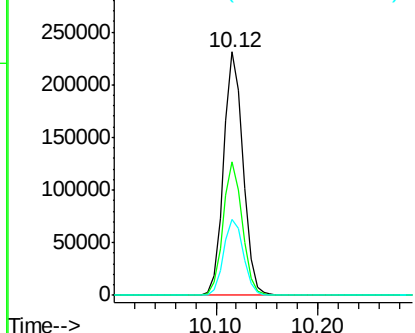
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002786.D
Acq: 21 Jun 2018 14:17

Instrument :
MSVOA_X
ClientSampleId :
PB110456TB

Tot Ion:117 Resp: 306543
Ion Ratio Lower Upper
117 100
82 55.1 45.0 67.4
119 31.4 25.8 38.6

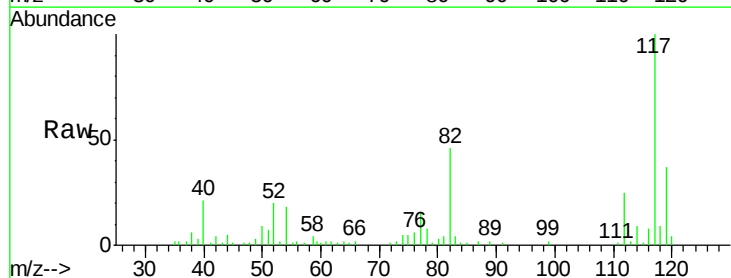


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX
Ion 118.90 (118.60 to 119.60): V

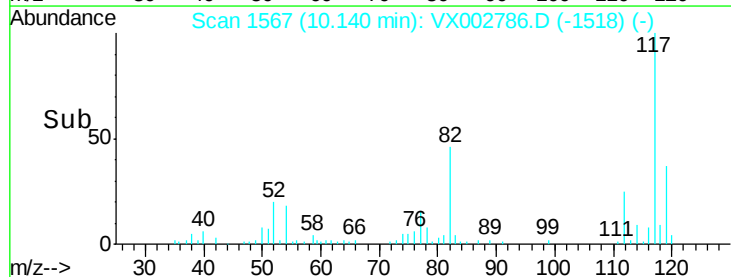
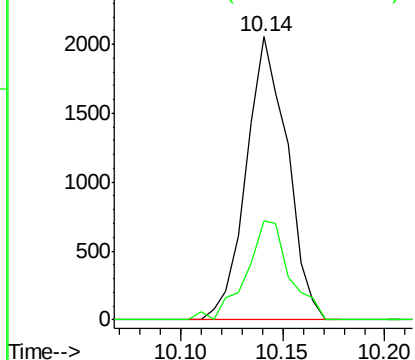


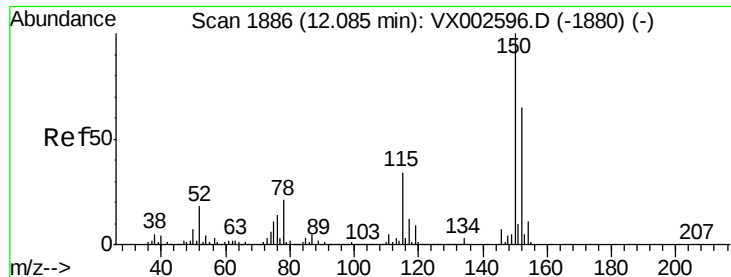
#65
Chlorobenzene
Concen: 0.38 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. 0.00 min
Lab File: VX002786.D
Acq: 21 Jun 2018 14:17

Tgt Ion:112 Resp: 2875
Ion Ratio Lower Upper
112 100
114 35.2 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX002786.D

Acq: 21 Jun 2018 14:17

Instrument :

MSVOA_X

ClientSampled :

PB110456TB

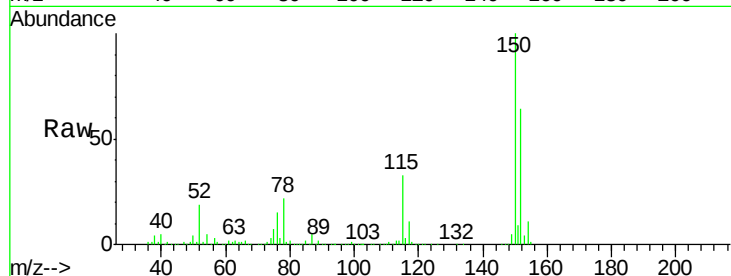
Tot Ion:152 Resp: 166700

Ion Ratio Lower Upper

152 100

115 55.0 40.1 120.2

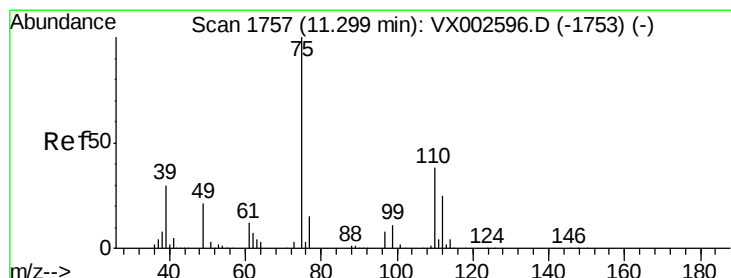
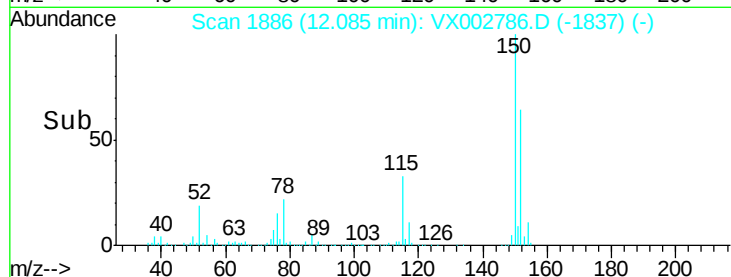
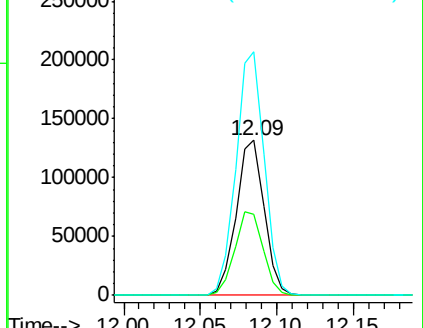
150 158.8 0.0 347.2



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: 27.27 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002786.D

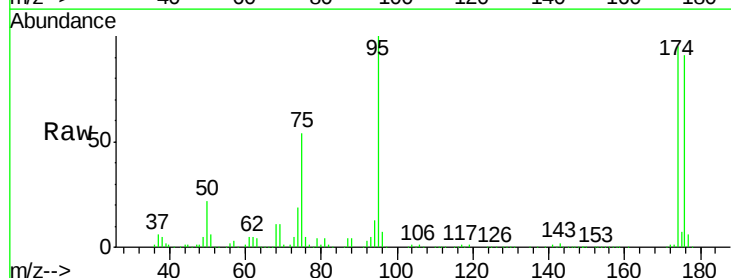
Acq: 21 Jun 2018 14:17

Tgt Ion: 75 Resp: 85794

Ion Ratio Lower Upper

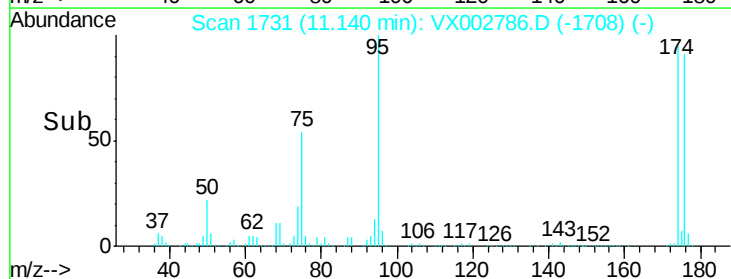
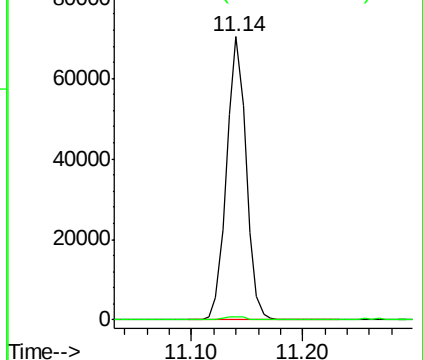
75 100

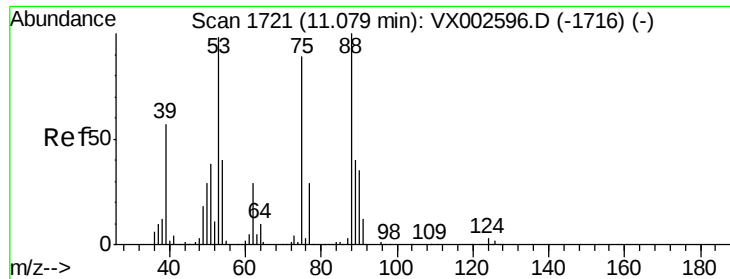
77 1.4 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 84.15 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002786.D

Acq: 21 Jun 2018 14:17

Instrument :

MSVOA_X

ClientSampleId :

PB110456TB

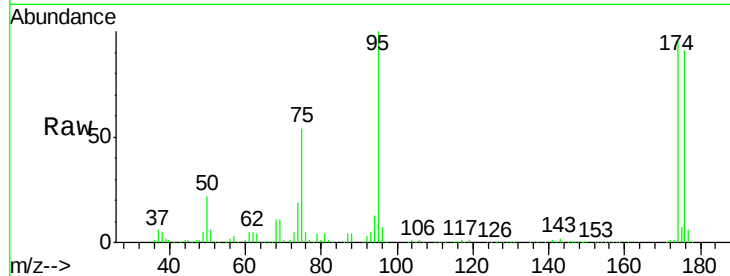
Tot Ion: 75 Resp: 85794

Ion Ratio Lower Upper

75 100

53 0.3 86.8 130.2#

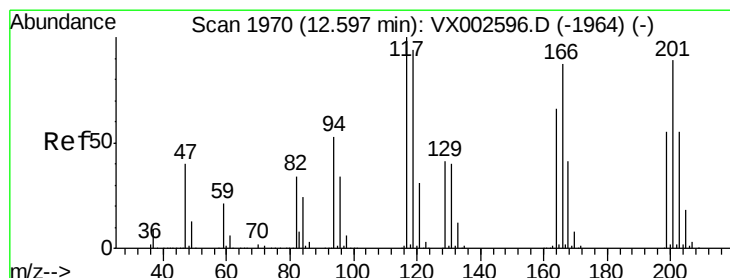
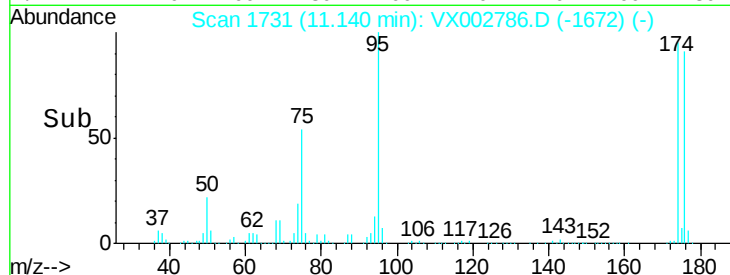
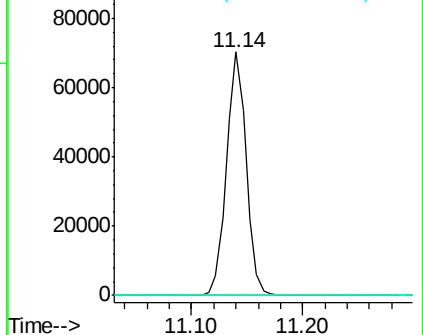
89 0.0 38.2 57.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#90

Hexachloroethane

Concen: 2.64 ug/l

RT: 12.60 min Scan# 1971

Delta R.T. 0.01 min

Lab File: VX002786.D

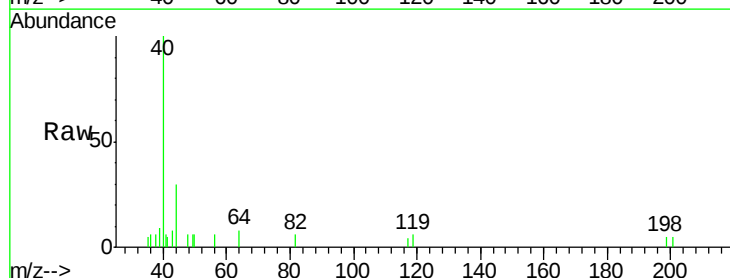
Acq: 21 Jun 2018 14:17

Tgt Ion: 117 Resp: 19

Ion Ratio Lower Upper

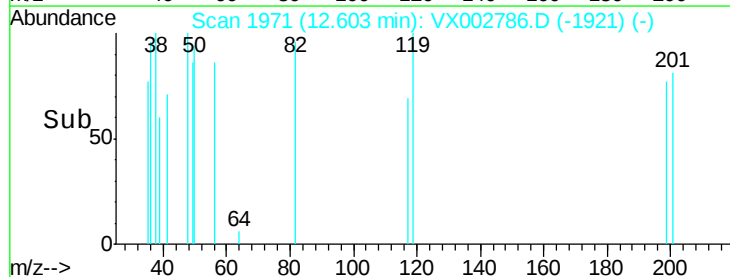
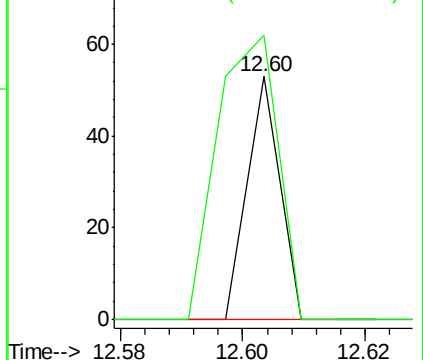
117 100

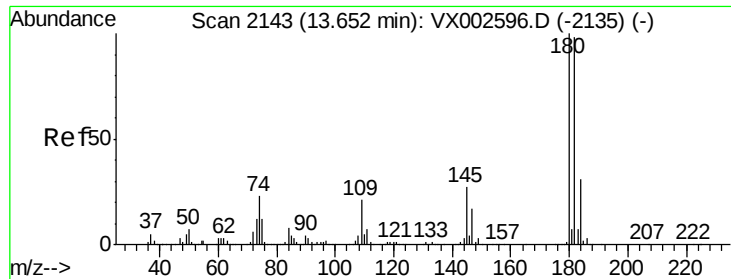
201 221.1 49.0 147.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#93

1,2,4-Trichlorobenzene

Concen: 0.21 ug/l

RT: 13.65 min Scan# 2143

Delta R.T. 0.00 min

Lab File: VX002786.D

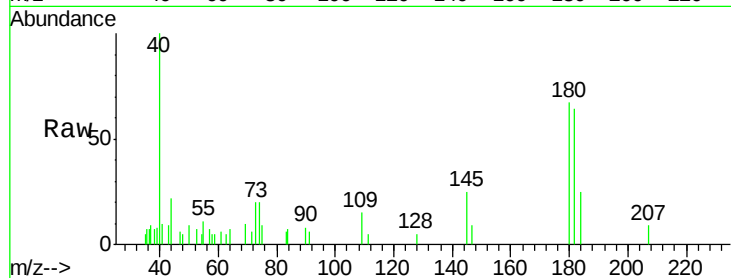
Acq: 21 Jun 2018 14:17

Instrument :

MSVOA_X

ClientSampleId :

PB110456TB



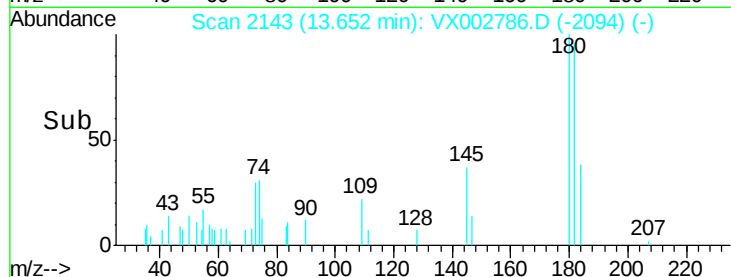
Tot Ion:180 Resp: 881

Ion Ratio Lower Upper

180 100

182 111.6 47.7 143.1

145 41.1 14.1 42.4



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

