

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061918\
 Data File : VX002741.D
 Acq On : 20 Jun 2018 04:54
 Operator : JC/MD
 Sample : J3510-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 20 07:04:43 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	221757	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	312361	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	295428	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	167029	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	150927	44.79	ug/l	0.00
Spiked Amount			Recovery	=	89.58%	
35) Dibromofluoromethane	5.51	113	117859	47.28	ug/l	0.00
Spiked Amount			Recovery	=	94.56%	
50) Toluene-d8	8.72	98	449734	47.51	ug/l	0.00
Spiked Amount			Recovery	=	95.02%	
62) 4-Bromofluorobenzene	11.14	95	156654	43.67	ug/l	0.00
Spiked Amount			Recovery	=	87.34%	

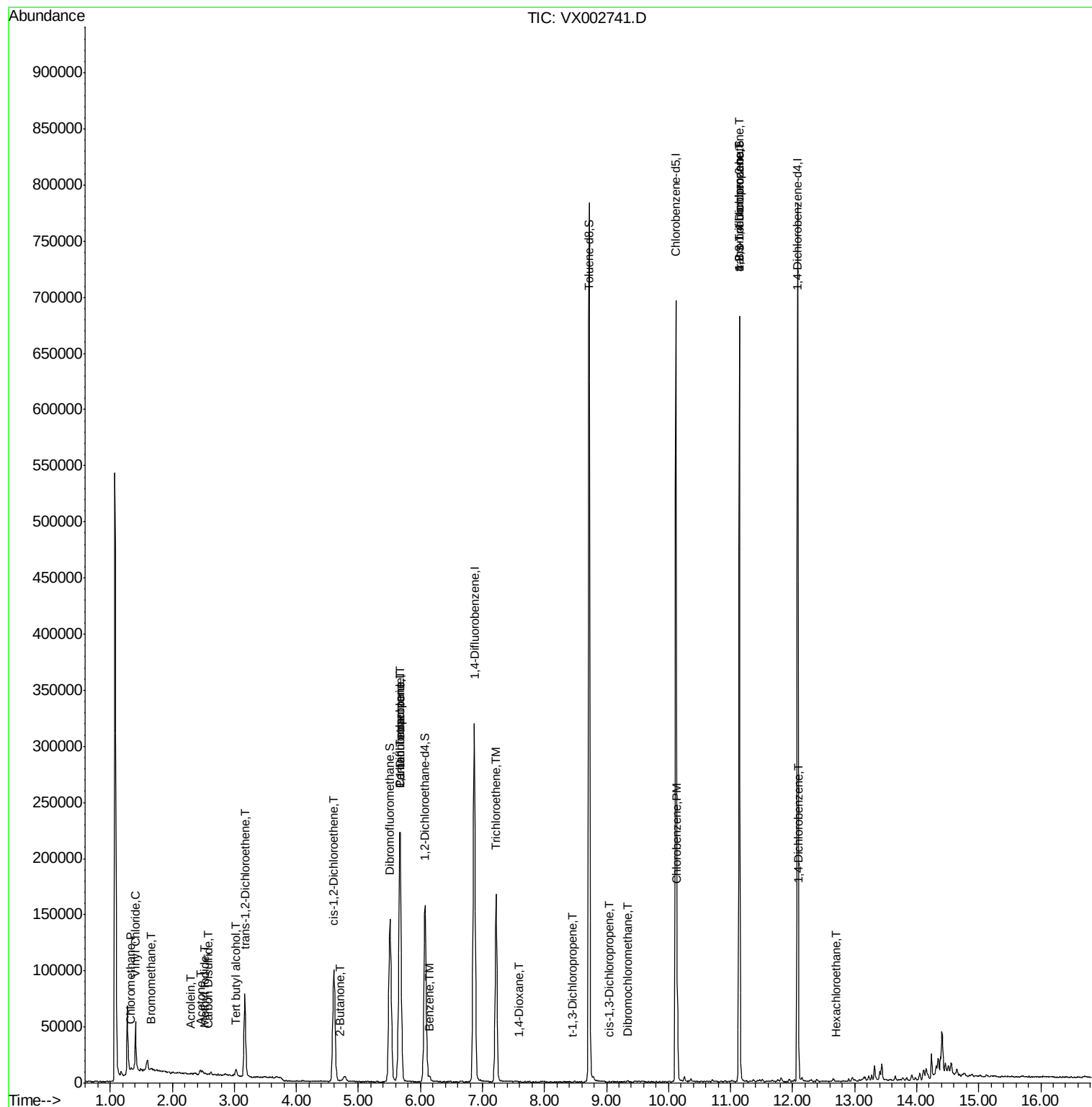
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	688	0.25	ug/l #	53
4) Vinyl Chloride	1.41	62	27239	9.37	ug/l #	81
5) Bromomethane	1.65	94	1229	0.70	ug/l	87
10) Methyl Iodide	2.52	142	1353	5.52	ug/l #	95
11) Tert butyl alcohol	3.03	59	3416	4.90	ug/l #	75
13) Acrolein	2.31	56	330	7.85	ug/l #	30
16) Acetone	2.45	43	4630	3.11	ug/l	99
17) Carbon Disulfide	2.57	76	1349	0.23	ug/l	99
21) trans-1,2-Dichloroethene	3.17	96	29515	10.98	ug/l	98
25) 2-Butanone	4.71	43	534	0.27	ug/l #	67
27) cis-1,2-Dichloroethene	4.60	96	60821	22.24	ug/l	85
36) 1,1-Dichloropropene	5.67	75	15602	4.70	ug/l #	50
38) Carbon Tetrachloride	5.67	117	20602	6.24	ug/l #	16
40) Benzene	6.15	78	3972	0.40	ug/l #	89
44) Trichloroethene	7.22	130	64128	22.34	ug/l	100
49) 1,4-Dioxane	7.59	88	21	0.35	ug/l #	22
53) t-1,3-Dichloropropene	8.45	75	29	2.40	ug/l #	43
54) cis-1,3-Dichloropropene	9.05	75	68	3.23	ug/l #	44
60) Dibromochloromethane	9.34	129	94	3.79	ug/l #	11
65) Chlorobenzene	10.14	112	28844	3.98	ug/l	96
76) 1,2,3-Trichloropropane	11.14	75	83925	26.63	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	83925	82.26	ug/l #	7
88) 1,4-Dichlorobenzene	12.10	146	1199	0.21	ug/l #	25
90) Hexachloroethane	12.71	117	102	2.69	ug/l #	1

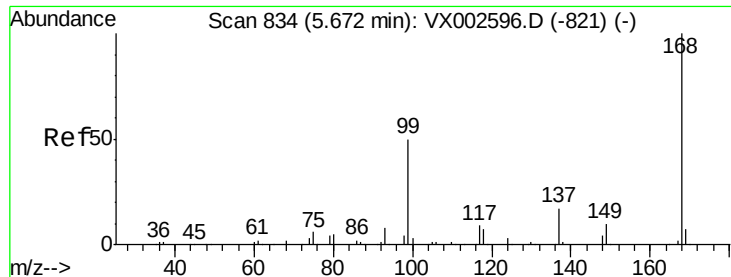
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Jun 20 07:04:43 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# 834

Delta R.T. 0.00 min

Lab File: VX002741.D

Acq: 20 Jun 2018 04:54

Instrument :

MSVOA_X

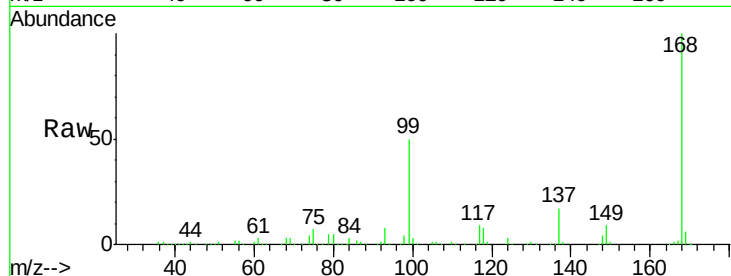
ClientSampled :

Tot Ion:168 Resp: 221757

Ion Ratio Lower Upper

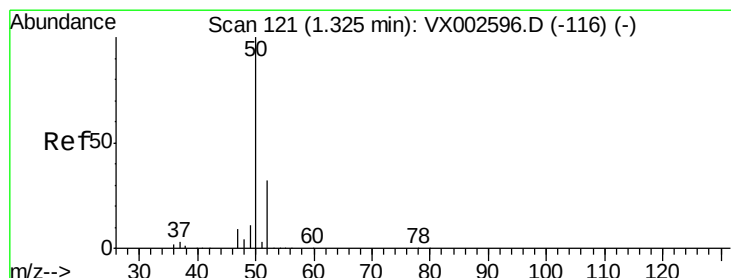
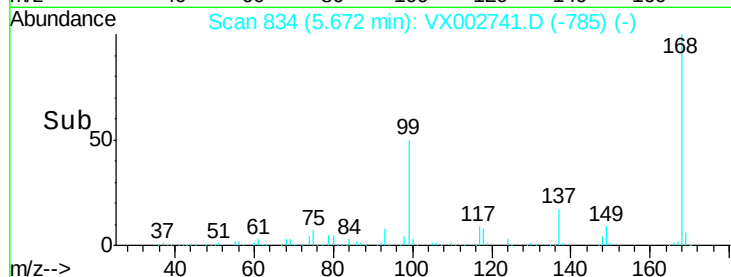
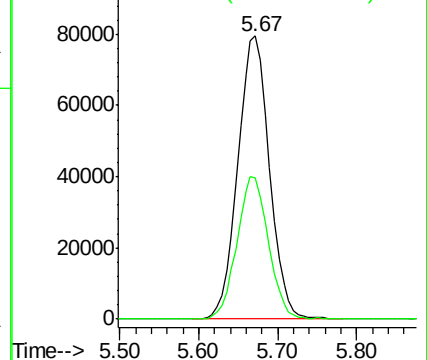
168 100

99 49.9 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.25 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002741.D

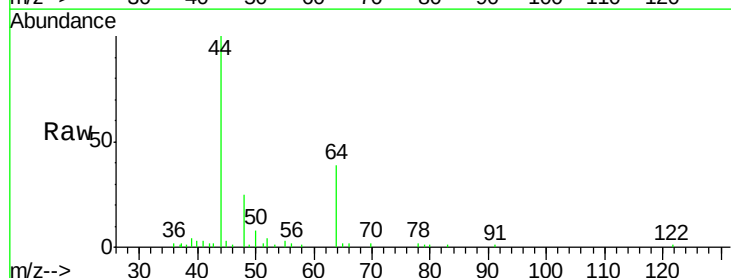
Acq: 20 Jun 2018 04:54

Tgt Ion: 50 Resp: 688

Ion Ratio Lower Upper

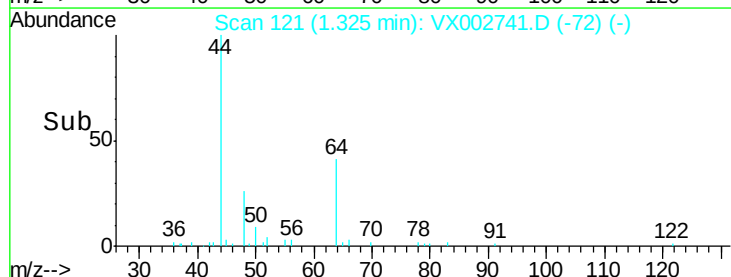
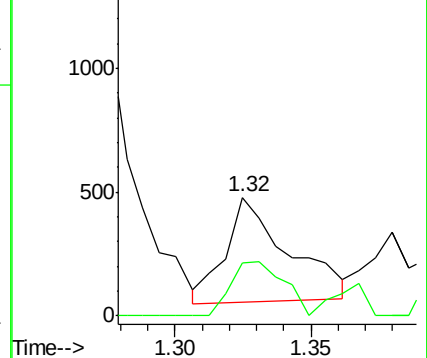
50 100

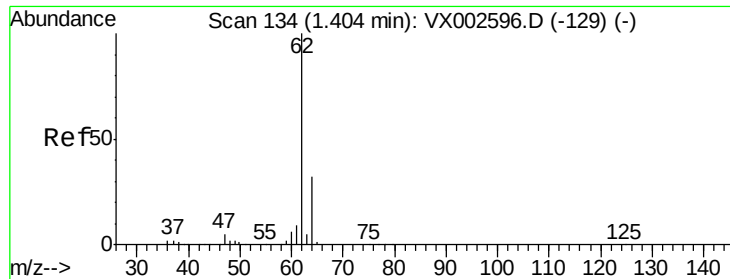
52 58.2 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 9.37 ug/l

RT: 1.41 min Scan# 135

Delta R.T. 0.01 min

Lab File: VX002741.D

Acq: 20 Jun 2018 04:54

Instrument :

MSVOA_X

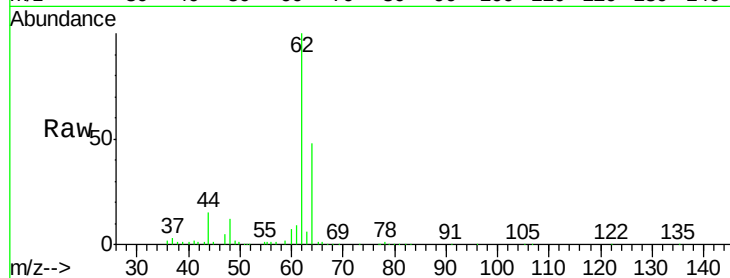
ClientSampleId :

Tot Ion: 62 Resp: 27239

Ion Ratio Lower Upper

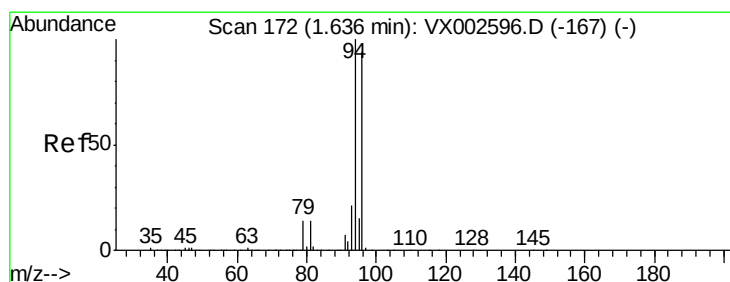
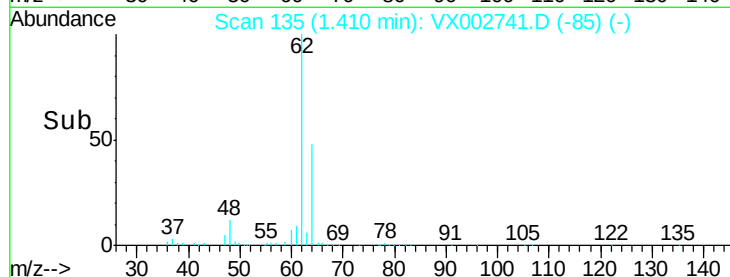
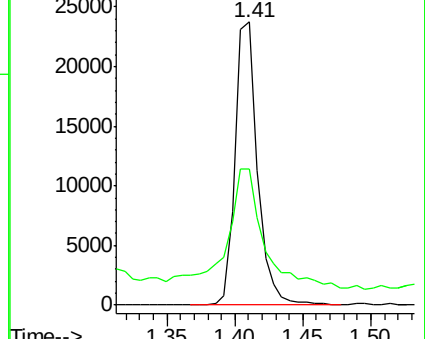
62 100

64 42.1 25.4 38.2#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.70 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002741.D

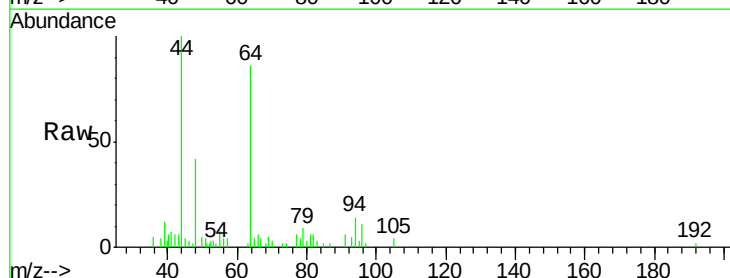
Acq: 20 Jun 2018 04:54

Tgt Ion: 94 Resp: 1229

Ion Ratio Lower Upper

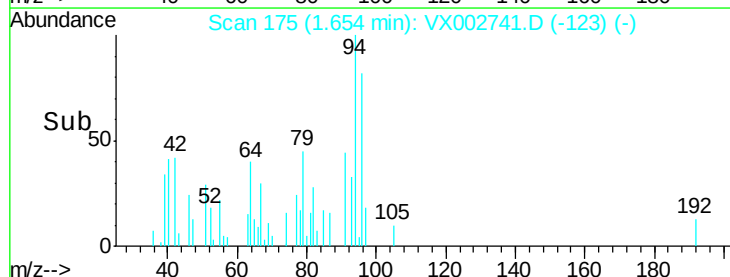
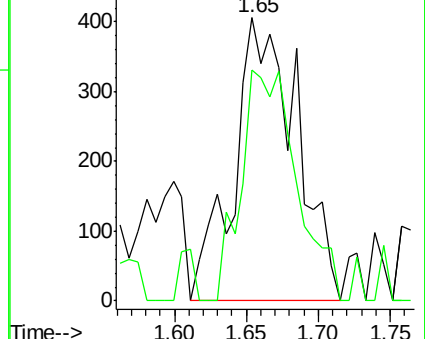
94 100

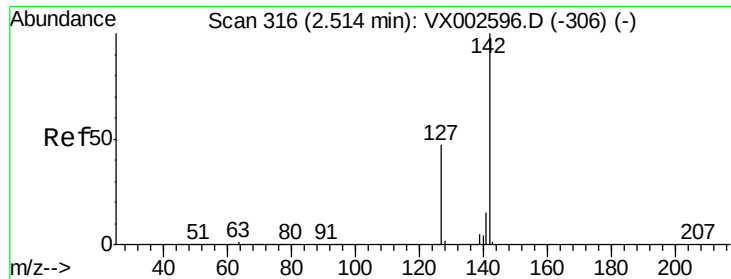
96 81.5 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

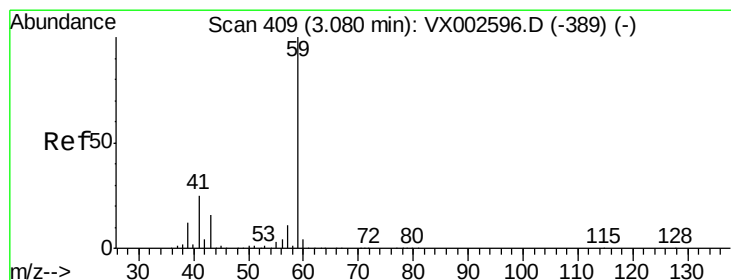
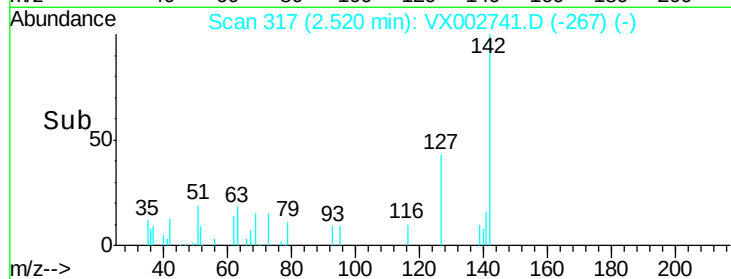
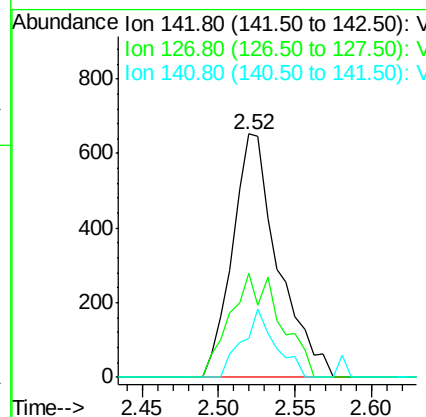
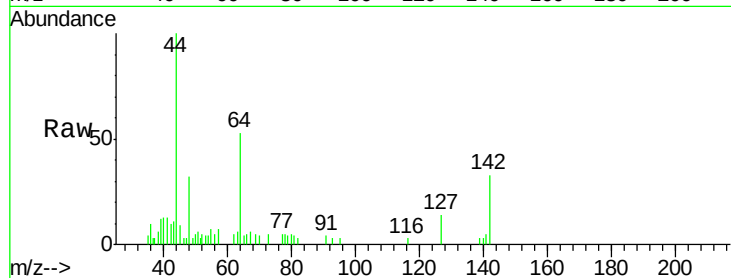




#10
Methyl Iodide
Concen: 5.52 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002741.D
Acq: 20 Jun 2018 04:54

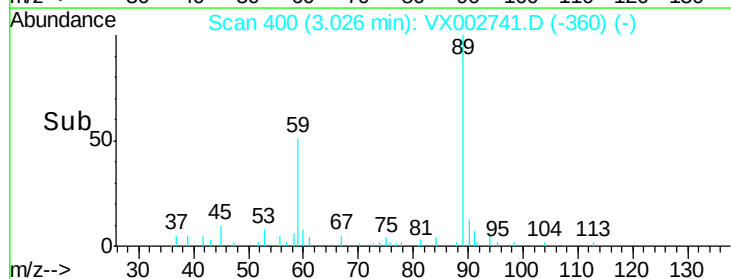
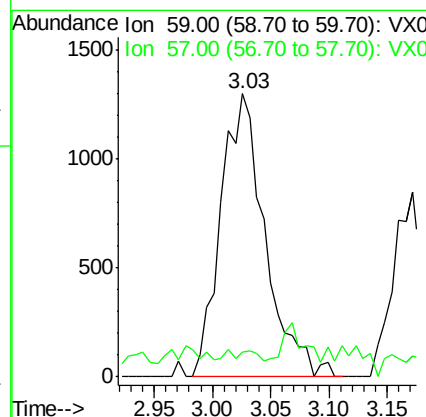
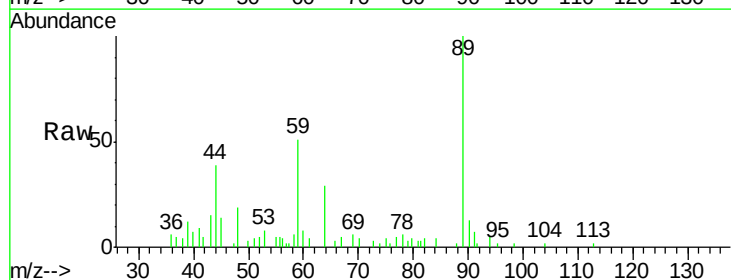
Instrument :
MSVOA_X
ClientSampled :

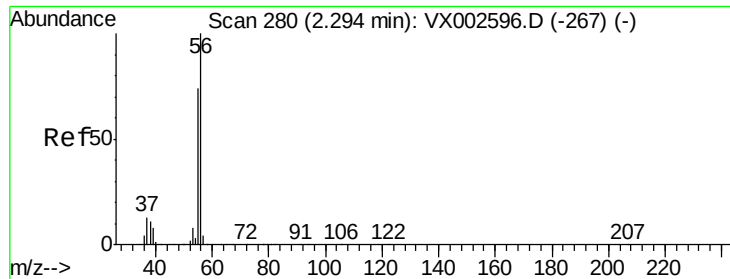
Tot Ion:142 Resp: 1353
Ion Ratio Lower Upper
142 100
127 46.9 36.6 55.0
141 20.1 11.3 16.9#



#11
Tert butyl alcohol
Concen: 4.90 ug/l
RT: 3.03 min Scan# 400
Delta R.T. -0.05 min
Lab File: VX002741.D
Acq: 20 Jun 2018 04:54

Tgt Ion: 59 Resp: 3416
Ion Ratio Lower Upper
59 100
57 0.7 8.2 12.2#





#13

Acrolein

Concen: 7.85 ug/l

RT: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX002741.D

Acq: 20 Jun 2018 04:54

Instrument :

MSVOA_X

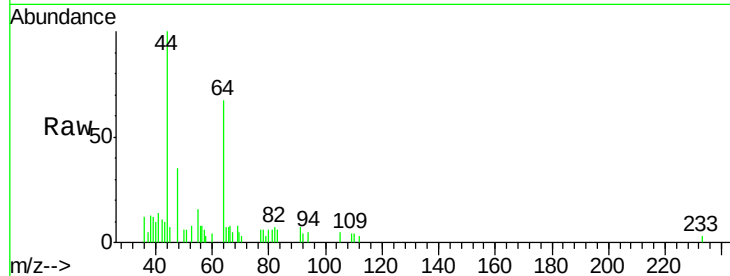
ClientSampled :

Tot Ion: 56 Resp: 330

Ion Ratio Lower Upper

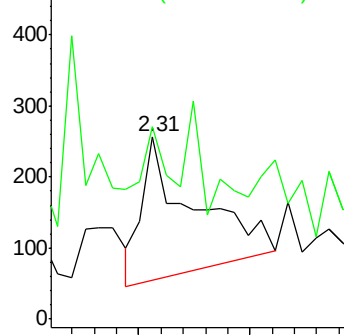
56 100

55 13.3 57.0 85.4#

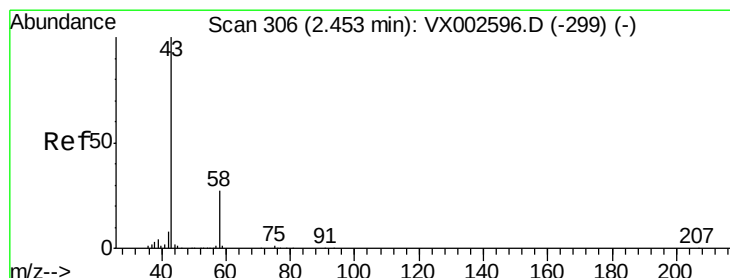
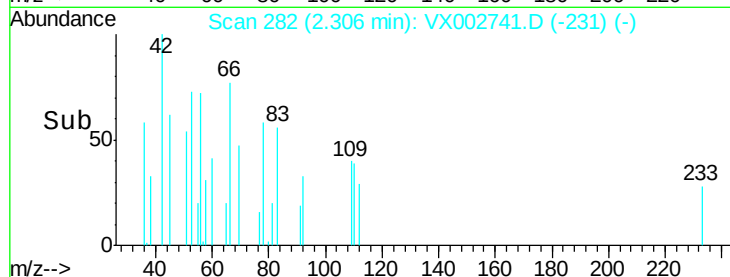


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#16

Acetone

Concen: 3.11 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002741.D

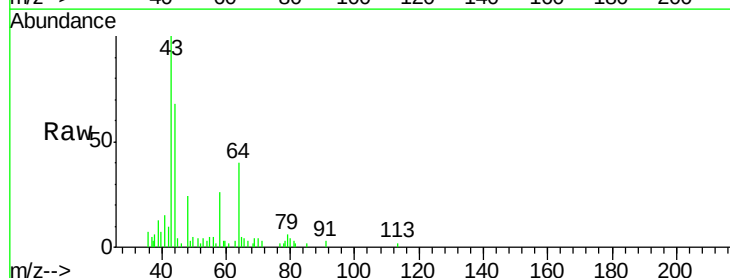
Acq: 20 Jun 2018 04:54

Tgt Ion: 43 Resp: 4630

Ion Ratio Lower Upper

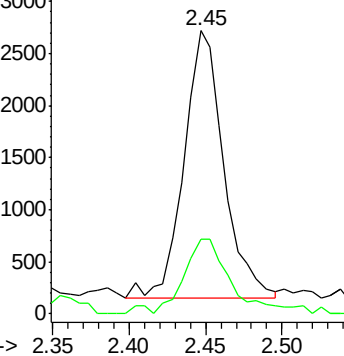
43 100

58 27.9 22.1 33.1

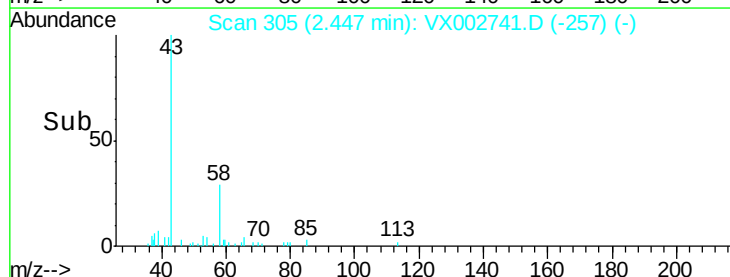


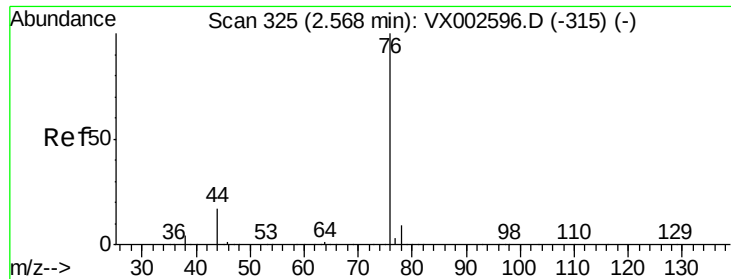
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->

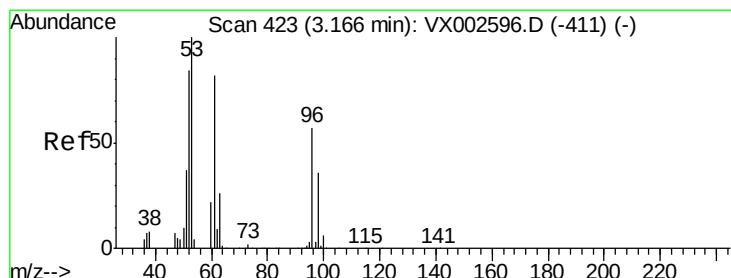
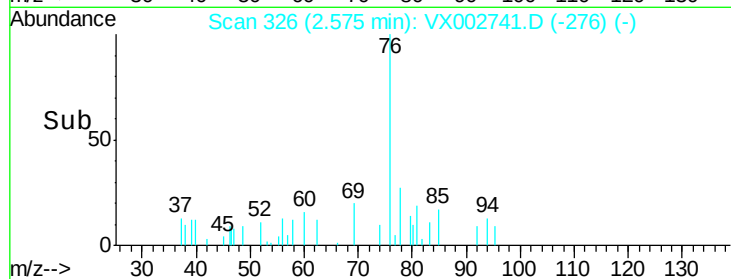
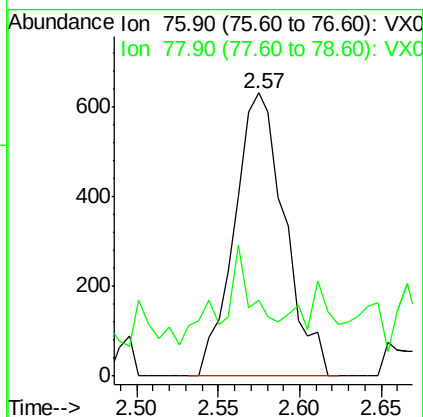
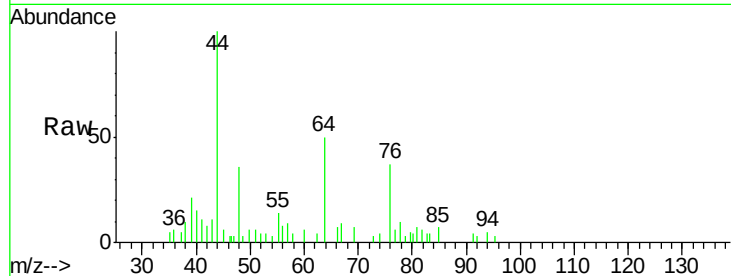




#17
Carbon Disulfide
Concen: 0.23 ug/l
RT: 2.57 min Scan# 326
Delta R.T. 0.01 min
Lab File: VX002741.D
Acq: 20 Jun 2018 04:54

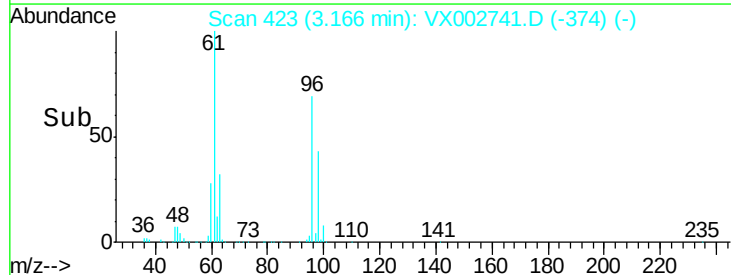
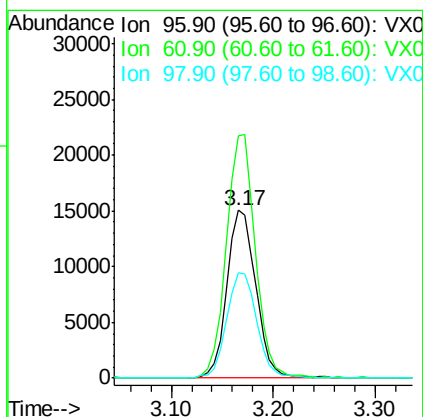
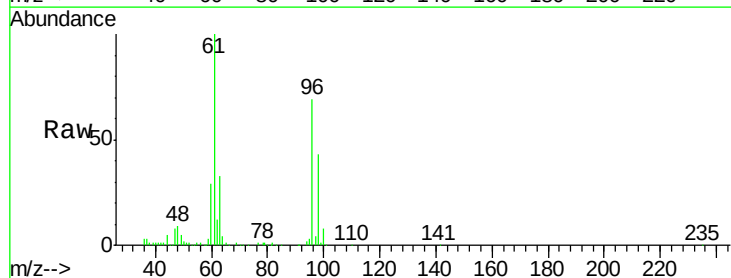
Instrument :
MSVOA_X
ClientSampleId :

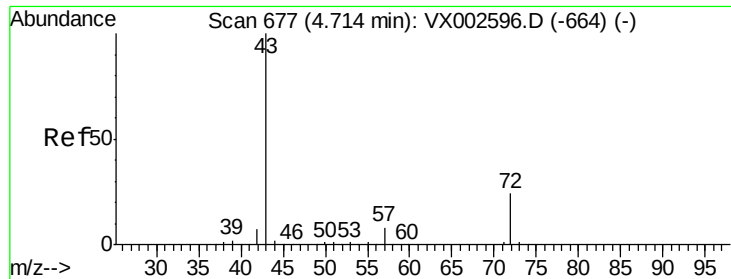
Tot Ion: 76 Resp: 1349
Ion Ratio Lower Upper
76 100
78 9.0 6.9 10.3



#21
trans-1,2-Dichloroethene
Concen: 10.98 ug/l
RT: 3.17 min Scan# 423
Delta R.T. 0.00 min
Lab File: VX002741.D
Acq: 20 Jun 2018 04:54

Tgt Ion: 96 Resp: 29515
Ion Ratio Lower Upper
96 100
61 144.3 117.0 175.4
98 62.7 52.4 78.6





#25

2-Butanone

Concen: 0.27 ug/l

RT: 4.71 min Scan# 676

Delta R.T. -0.01 min

Lab File: VX002741.D

Acq: 20 Jun 2018 04:54

Instrument :

MSVOA_X

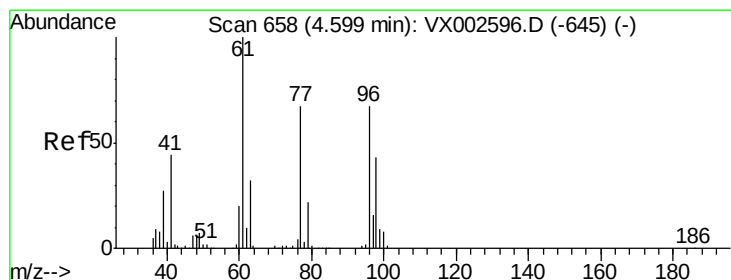
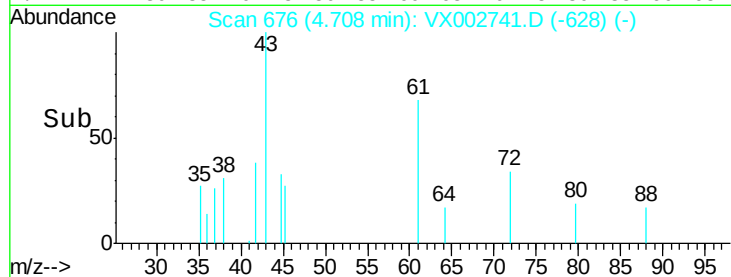
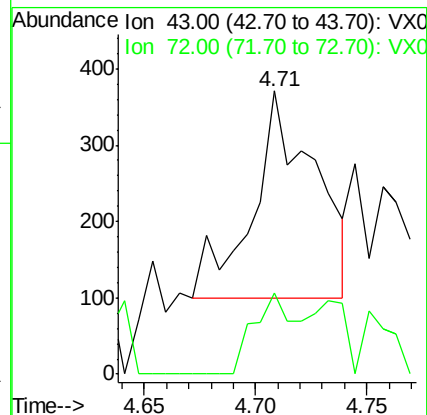
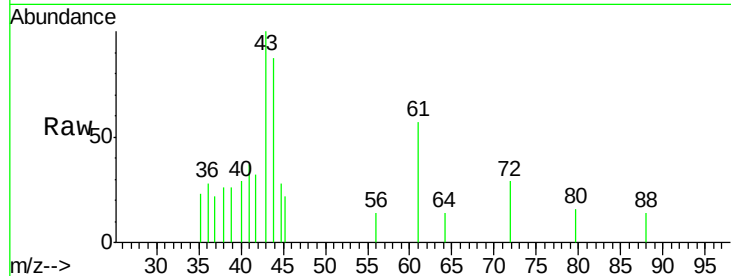
ClientSampled :

Tot Ion: 43 Resp: 534

Ion Ratio Lower Upper

43 100

72 39.3 18.5 27.7#



#27

cis-1,2-Dichloroethene

Concen: 22.24 ug/l

RT: 4.60 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX002741.D

Acq: 20 Jun 2018 04:54

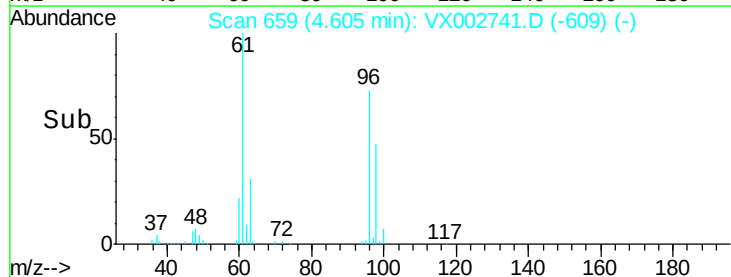
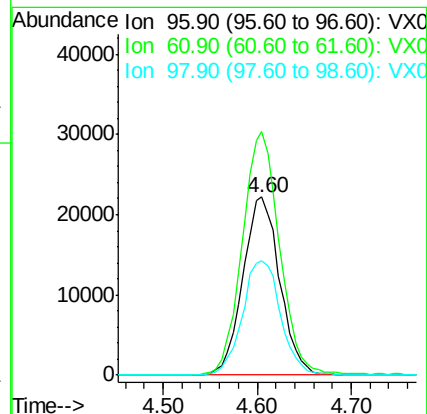
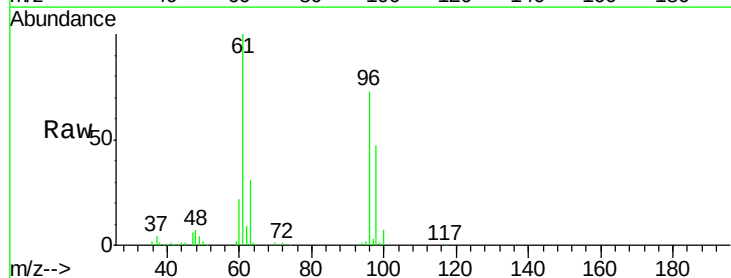
Tgt Ion: 96 Resp: 60821

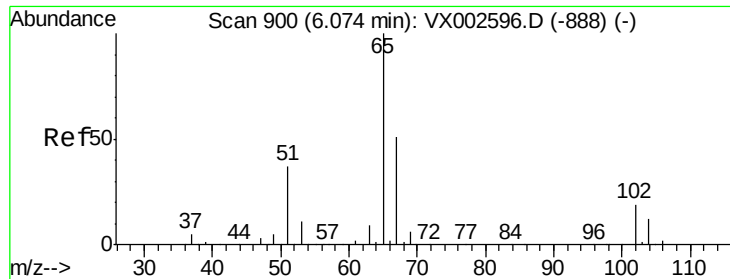
Ion Ratio Lower Upper

96 100

61 138.6 0.0 330.2

98 66.4 0.0 130.2

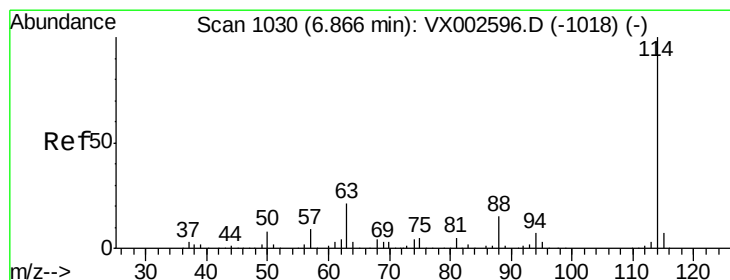
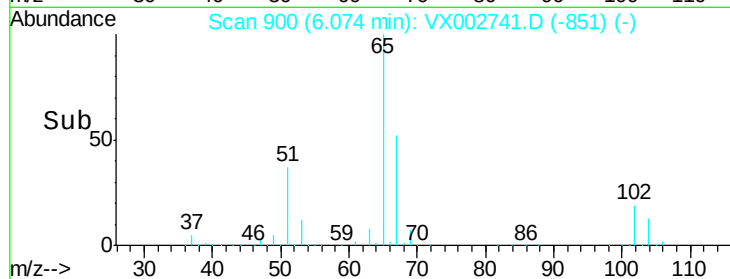
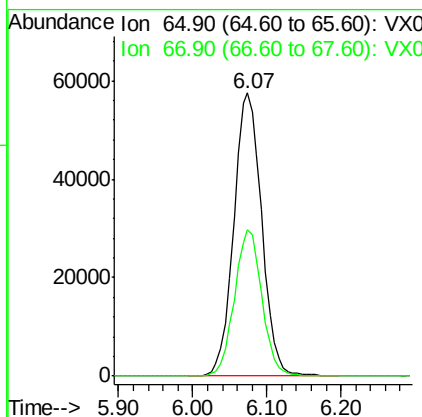
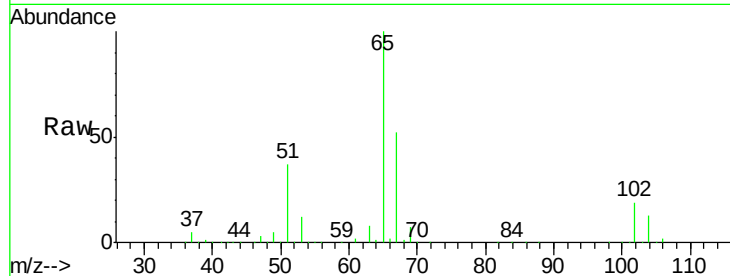




#33
 1,2-Dichloroethane-d4
 Concen: 44.79 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX002741.D
 Acq: 20 Jun 2018 04:54

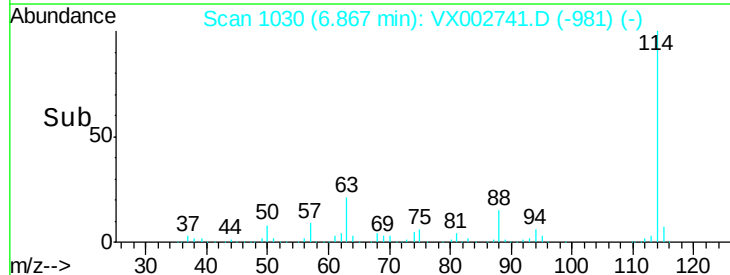
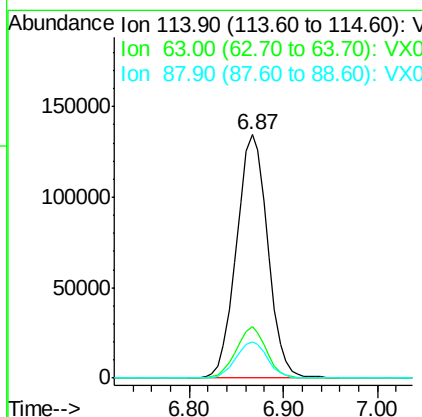
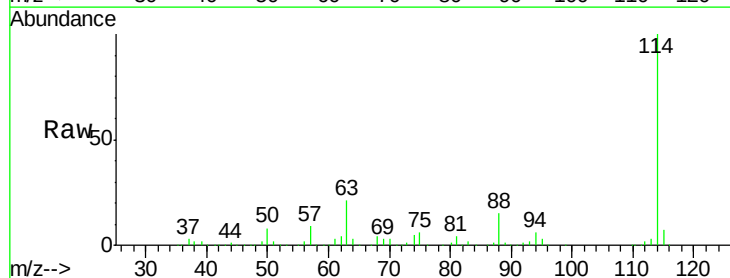
Instrument :
 MSVOA_X
 ClientSampleId :

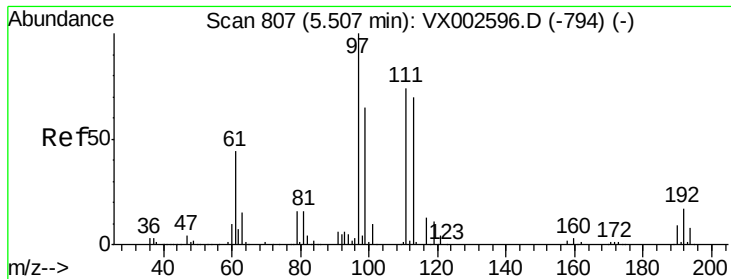
Tot Ion: 65 Resp: 150927
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002741.D
 Acq: 20 Jun 2018 04:54

Tgt Ion: 114 Resp: 312361
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 41.4
 88 15.0 0.0 30.0





#35

Dibromofluoromethane

Concen: 47.28 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX002741.D

Acq: 20 Jun 2018 04:54

Instrument :

MSVOA_X

ClientSampled :

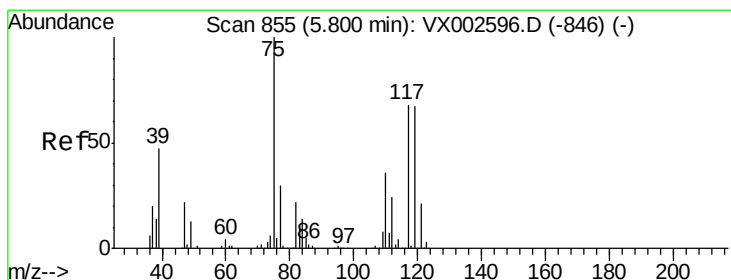
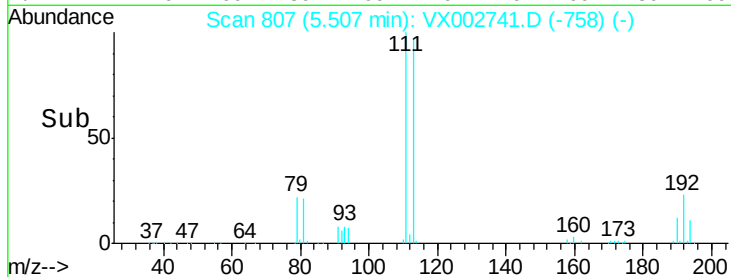
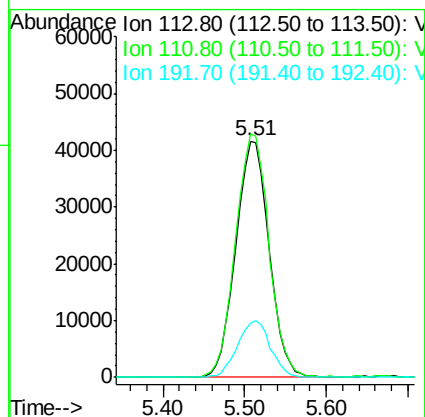
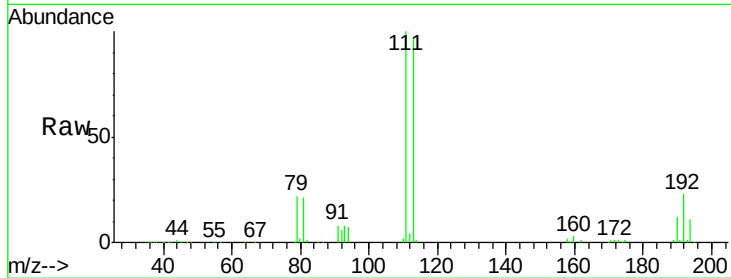
Tot Ion:113 Resp: 117859

Ion Ratio Lower Upper

113 100

111 103.2 81.4 122.0

192 23.7 19.1 28.7



#36

1,1-Dichloropropene

Concen: 4.70 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX002741.D

Acq: 20 Jun 2018 04:54

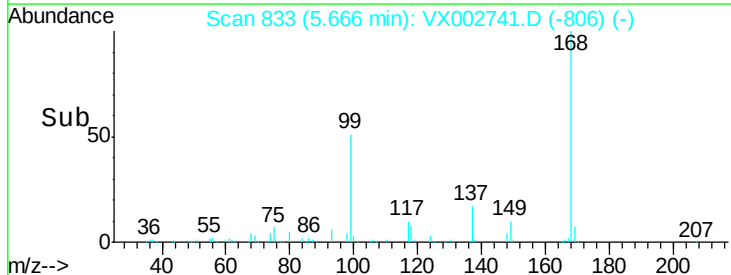
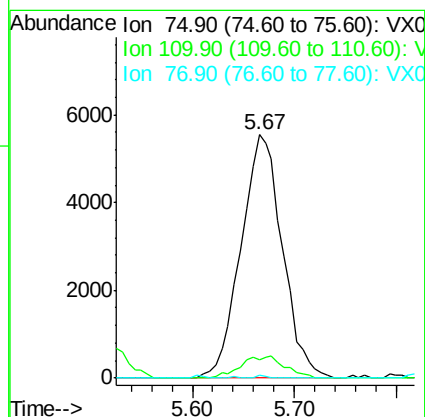
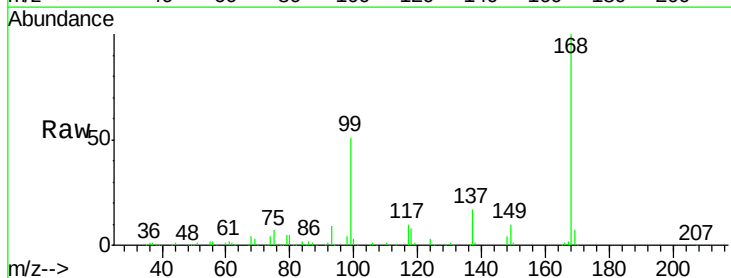
Tgt Ion: 75 Resp: 15602

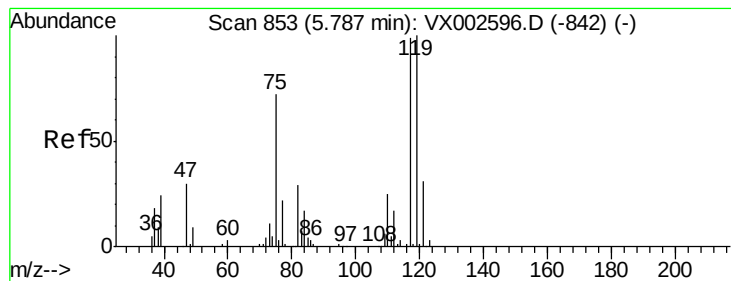
Ion Ratio Lower Upper

75 100

110 9.7 18.1 54.4#

77 0.3 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 6.24 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002741.D

Acq: 20 Jun 2018 04:54

Instrument :

MSVOA_X

ClientSampled :

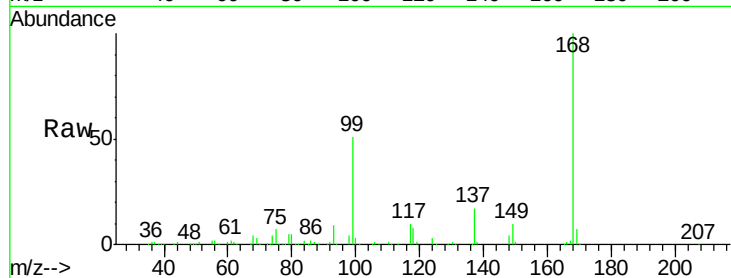
Tot Ion:117 Resp: 20602

Ion Ratio Lower Upper

117 100

119 5.5 77.4 116.0#

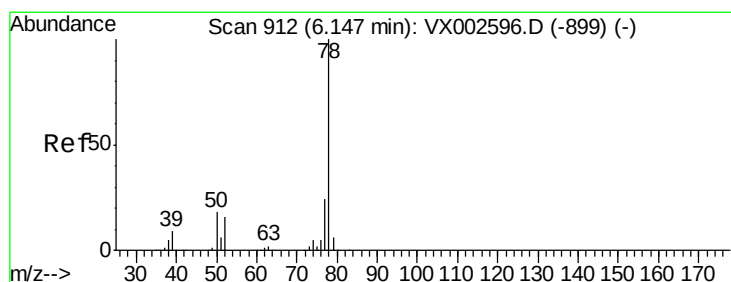
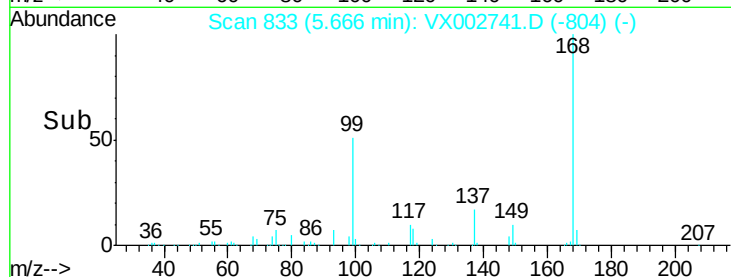
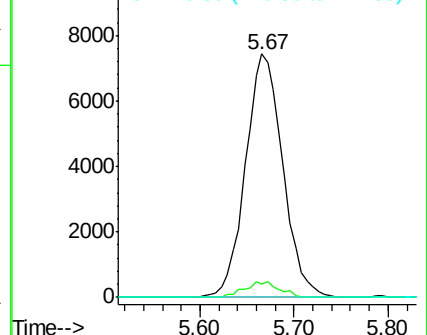
121 0.0 24.4 36.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#40

Benzene

Concen: 0.40 ug/l

RT: 6.15 min Scan# 913

Delta R.T. 0.01 min

Lab File: VX002741.D

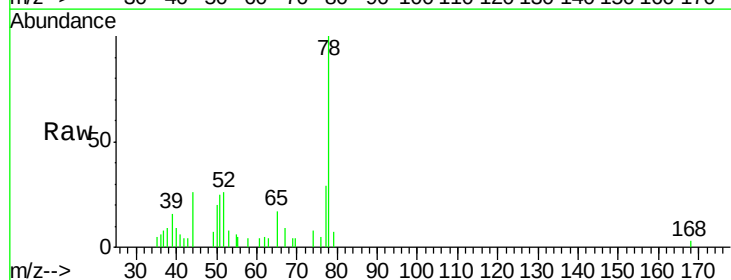
Acq: 20 Jun 2018 04:54

Tgt Ion: 78 Resp: 3972

Ion Ratio Lower Upper

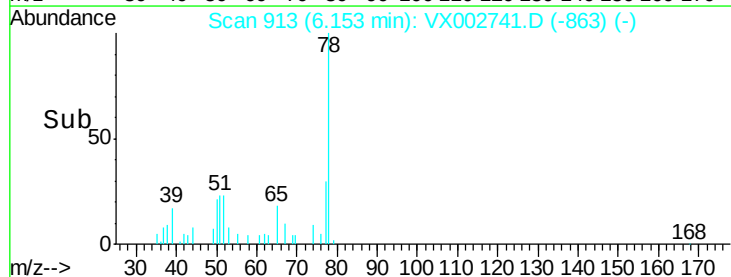
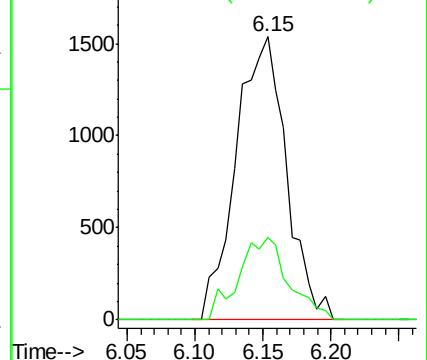
78 100

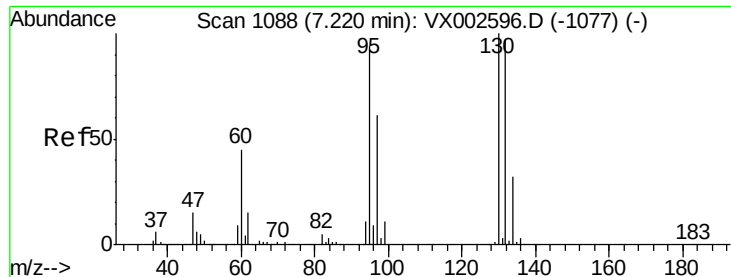
77 29.3 19.1 28.7#



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#44

Trichloroethene

Concen: 22.34 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. 0.00 min

Lab File: VX002741.D

Acq: 20 Jun 2018 04:54

Instrument :

MSVOA_X

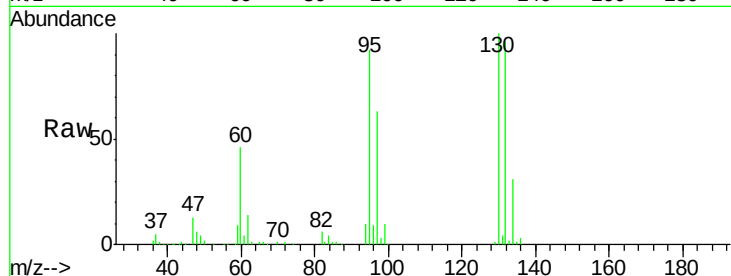
ClientSampled :

Tot Ion:130 Resp: 64128

Ion Ratio Lower Upper

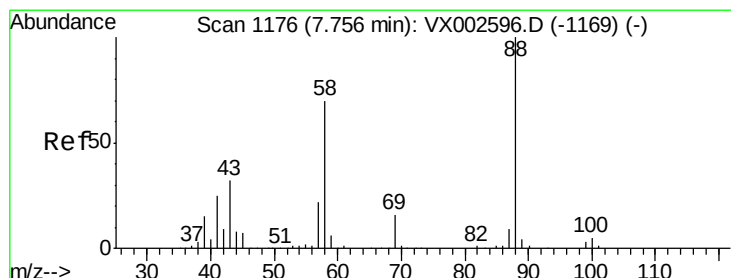
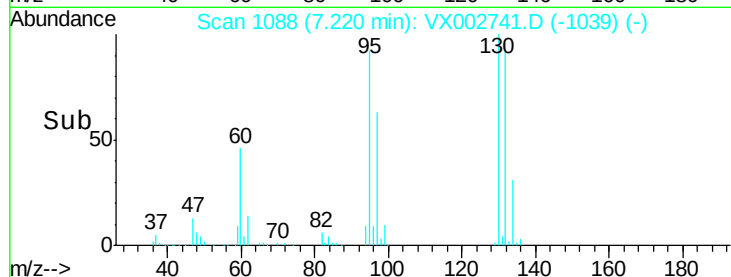
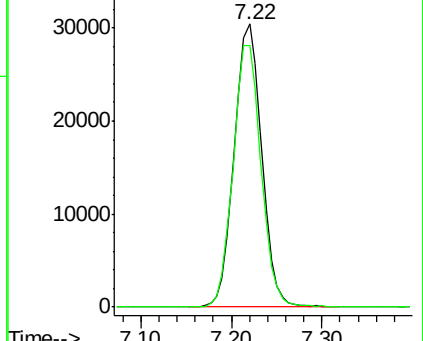
130 100

95 92.3 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.35 ug/l

RT: 7.59 min Scan# 1148

Delta R.T. -0.17 min

Lab File: VX002741.D

Acq: 20 Jun 2018 04:54

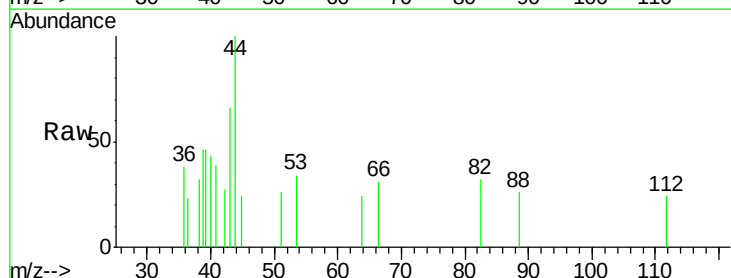
Tgt Ion: 88 Resp: 21

Ion Ratio Lower Upper

88 100

43 0.0 29.8 44.6#

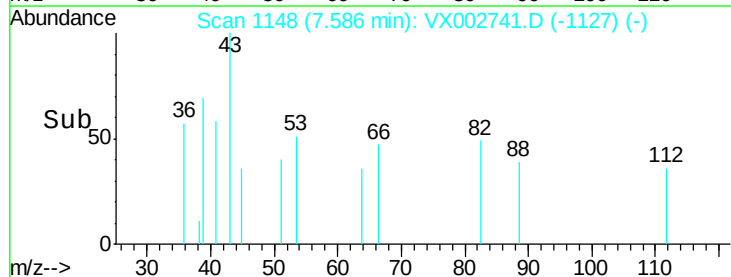
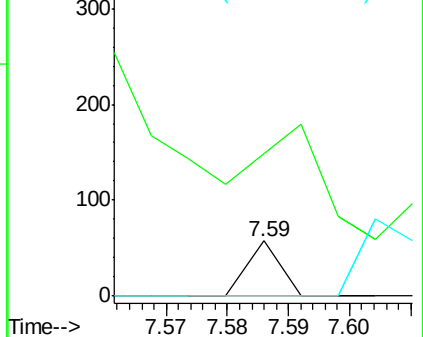
58 0.0 57.1 85.7#

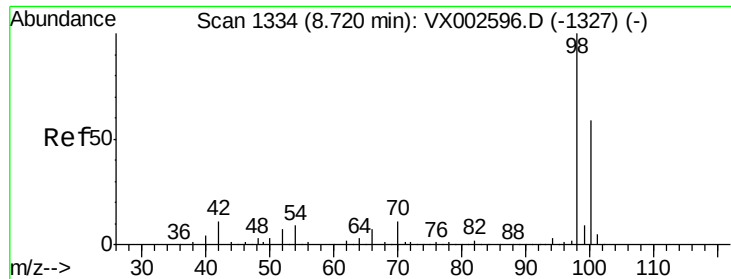


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

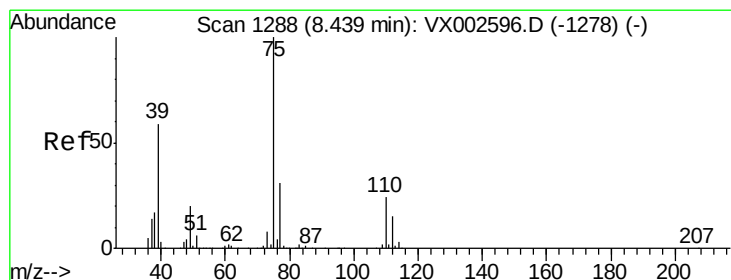
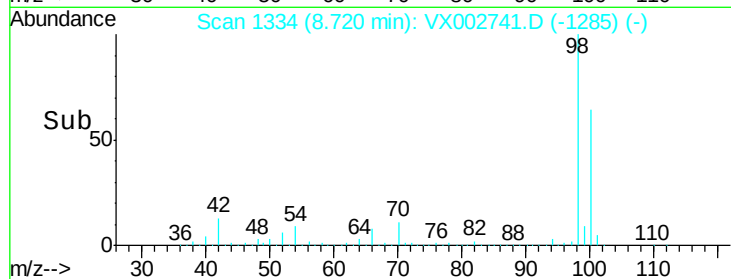
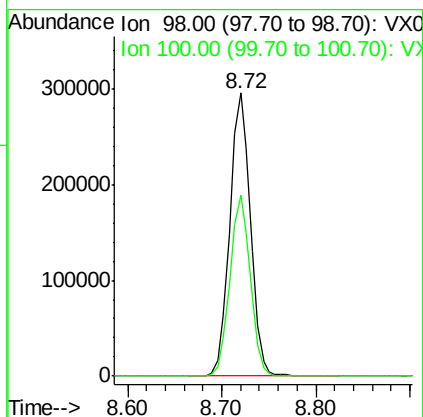
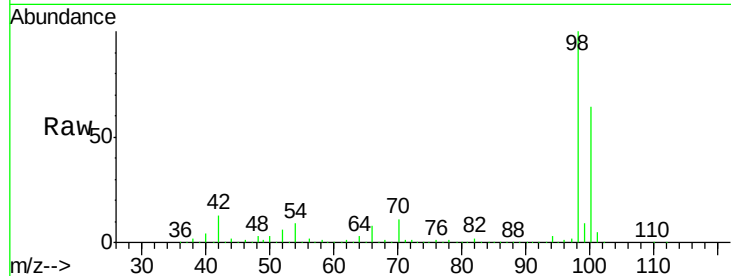




#50
Toluene-d8
Concen: 47.51 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002741.D
Acq: 20 Jun 2018 04:54

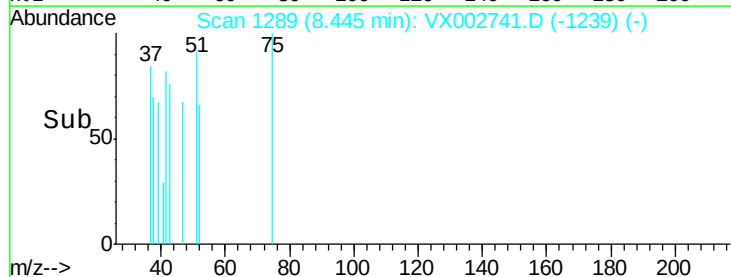
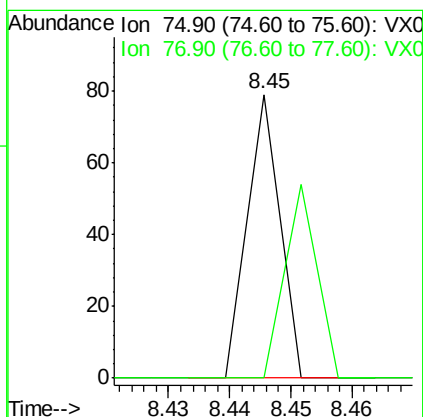
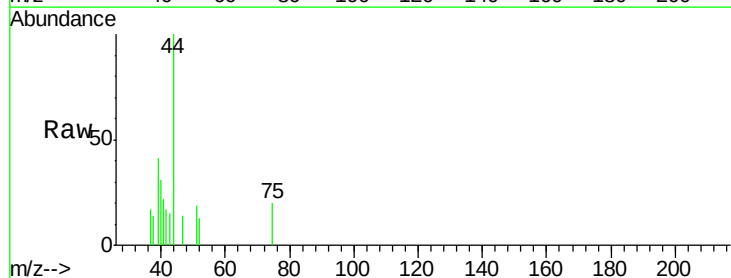
Instrument :
MSVOA_X
ClientSampleId :

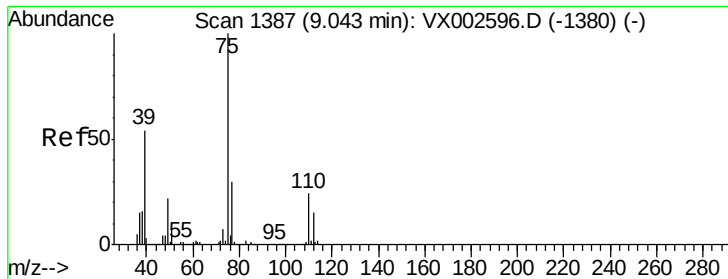
Tot Ion: 98 Resp: 449734
Ion Ratio Lower Upper
98 100
100 63.0 50.9 76.3



#53
t-1,3-Dichloropropene
Concen: 2.40 ug/l
RT: 8.45 min Scan# 1289
Delta R.T. 0.01 min
Lab File: VX002741.D
Acq: 20 Jun 2018 04:54

Tgt Ion: 75 Resp: 29
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.2#



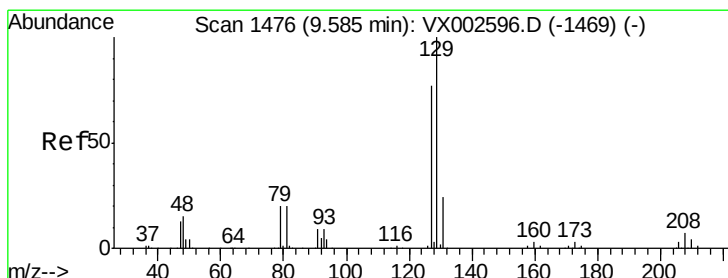
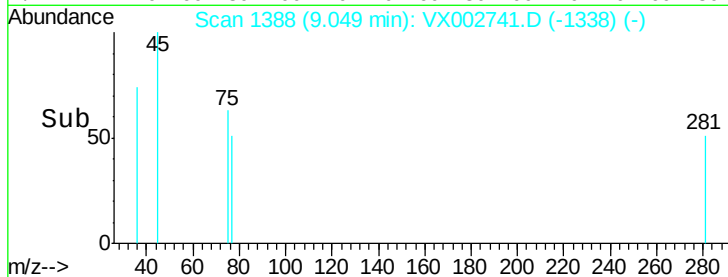
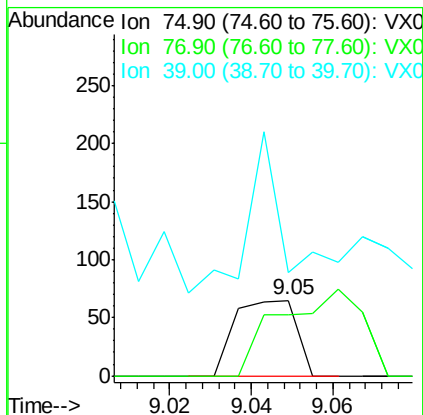
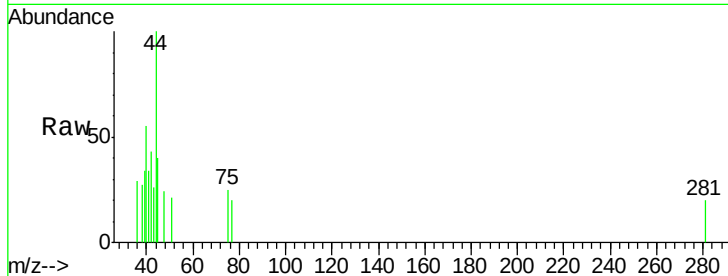


#54

cis-1,3-Dichloropropene
Concen: 3.23 ug/l
RT: 9.05 min Scan# 1388
Delta R.T. 0.01 min
Lab File: VX002741.D
Acq: 20 Jun 2018 04:54

Instrument :
MSVOA_X
ClientSampled :

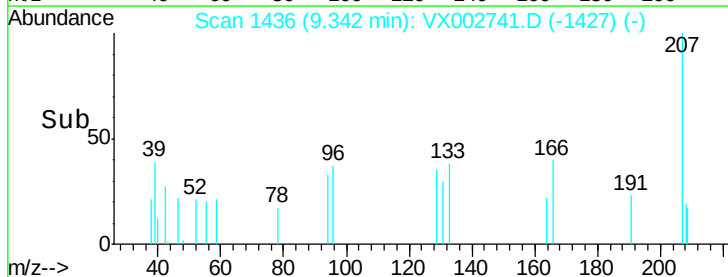
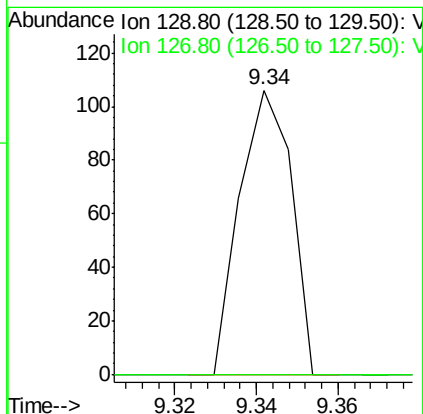
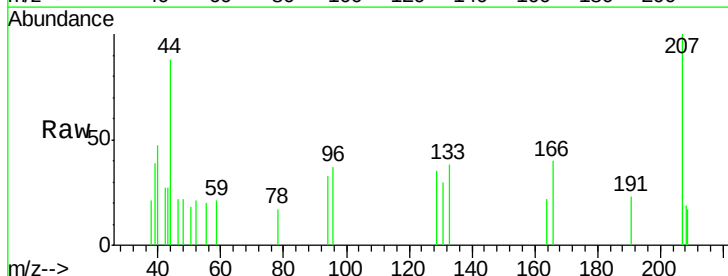
Tot Ion: 75 Resp: 68
Ion Ratio Lower Upper
75 100
77 81.5 24.8 37.2#
39 27.7 42.4 63.6#

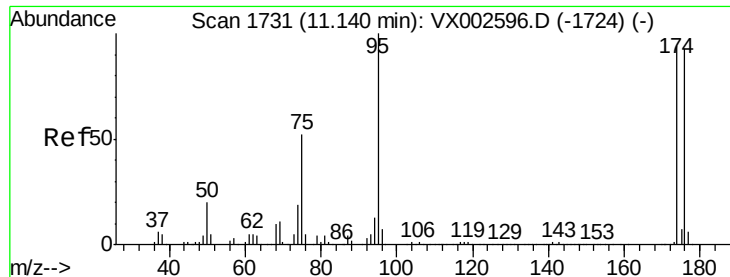


#60

Dibromochloromethane
Concen: 3.79 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. -0.24 min
Lab File: VX002741.D
Acq: 20 Jun 2018 04:54

Tgt Ion:129 Resp: 94
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#





#62

4-Bromofluorobenzene

Concen: 43.67 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002741.D

Acq: 20 Jun 2018 04:54

Instrument :

MSVOA_X

ClientSampleId :

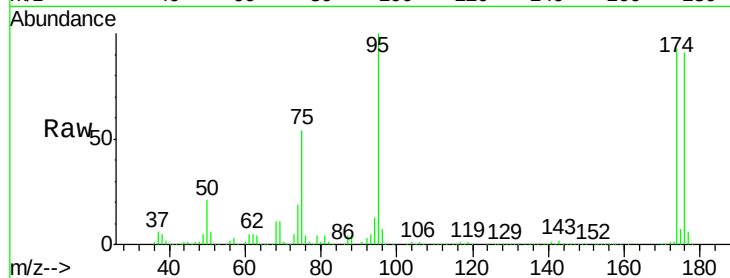
Tot Ion: 95 Resp: 156654

Ion Ratio Lower Upper

95 100

174 97.1 0.0 187.4

176 93.6 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX002741.D (-1682) (-)

Ion 173.80 (173.50 to 174.50): VX002741.D (-1682) (-)

Ion 175.80 (175.50 to 176.50): VX002741.D (-1682) (-)

11.14

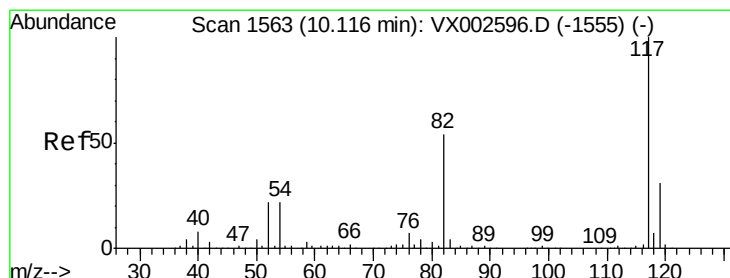
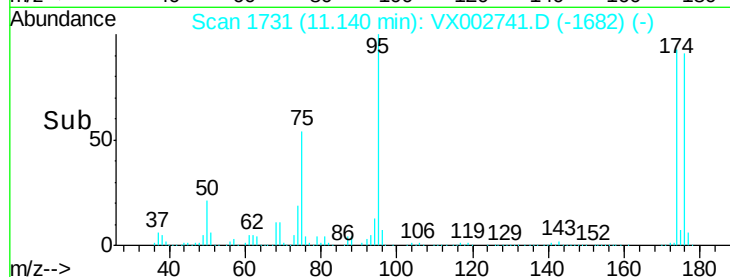
150000

100000

50000

0

Time--> 11.05 11.10 11.15 11.20



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX002741.D

Acq: 20 Jun 2018 04:54

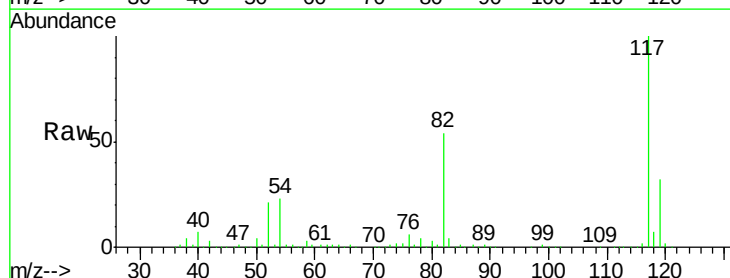
Tgt Ion: 117 Resp: 295428

Ion Ratio Lower Upper

117 100

82 53.9 45.0 67.4

119 31.9 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): VX002741.D (-1514) (-)

Ion 82.00 (81.70 to 82.70): VX002741.D (-1514) (-)

Ion 118.90 (118.60 to 119.60): VX002741.D (-1514) (-)

10.12

300000

250000

200000

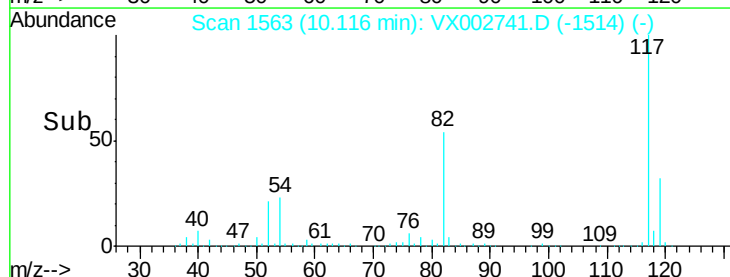
150000

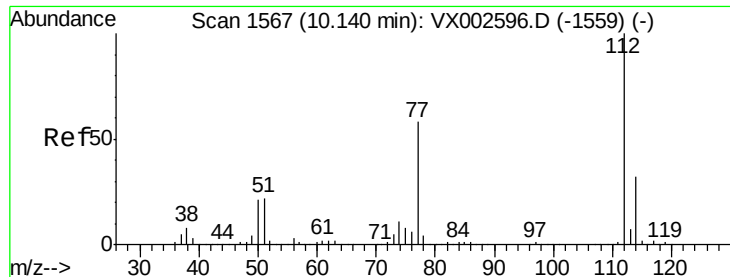
100000

50000

0

Time--> 10.00 10.10 10.20





#65

Chlorobenzene

Concen: 3.98 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VX002741.D

Acq: 20 Jun 2018 04:54

Instrument :

MSVOA_X

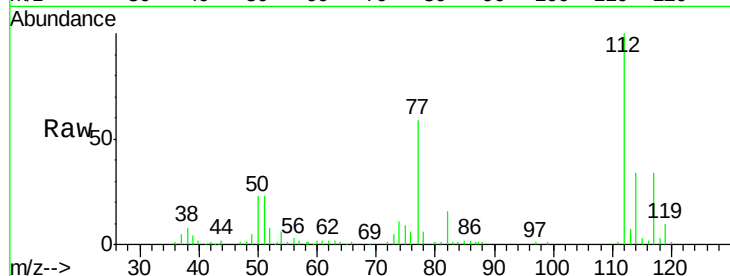
ClientSampled :

Tot Ion:112 Resp: 28844

Ion Ratio Lower Upper

112 100

114 34.0 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

10.14

25000

20000

15000

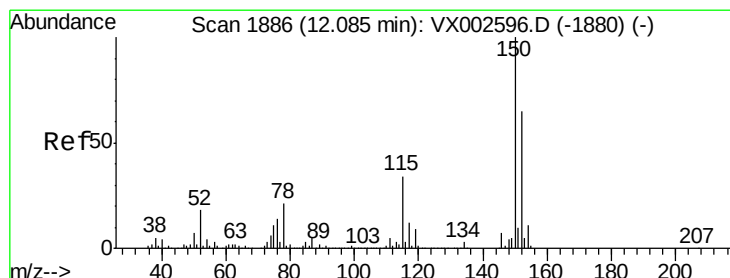
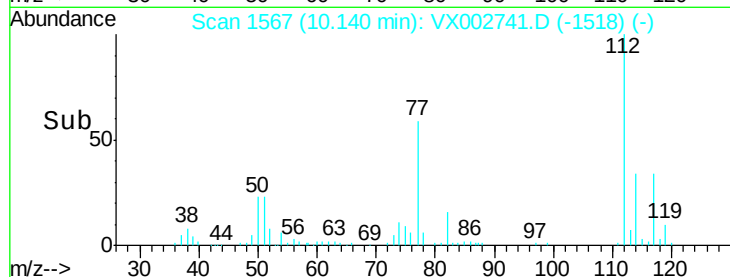
10000

5000

0

Time-->

10.10 10.14 10.20



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX002741.D

Acq: 20 Jun 2018 04:54

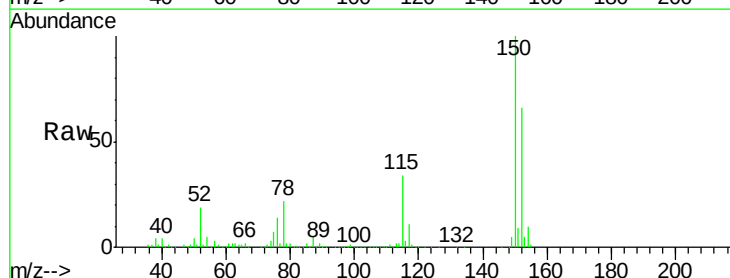
Tgt Ion:152 Resp: 167029

Ion Ratio Lower Upper

152 100

115 54.4 40.1 120.2

150 155.4 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

250000

200000

150000

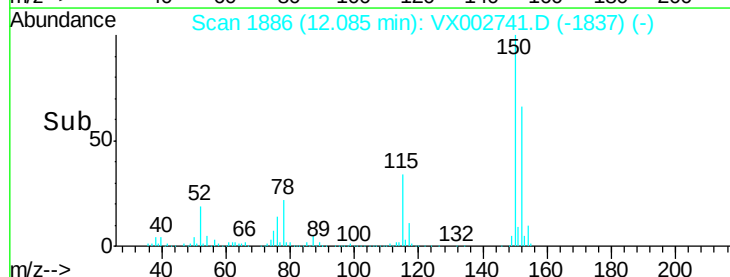
100000

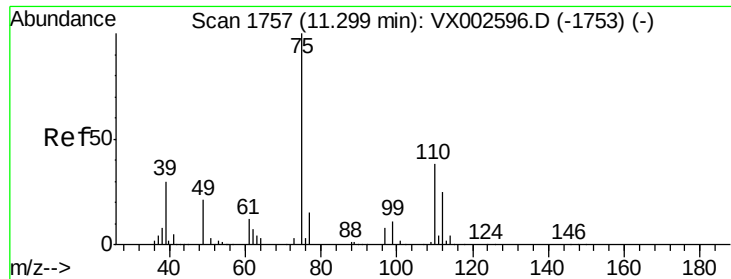
50000

0

Time-->

12.00 12.05 12.10 12.15





#76

1,2,3-Trichloropropane

Concen: 26.63 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002741.D

Acq: 20 Jun 2018 04:54

Instrument :

MSVOA_X

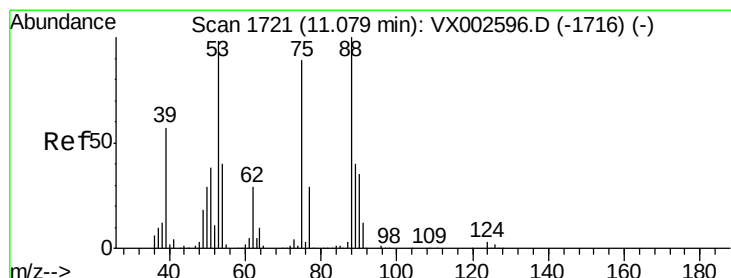
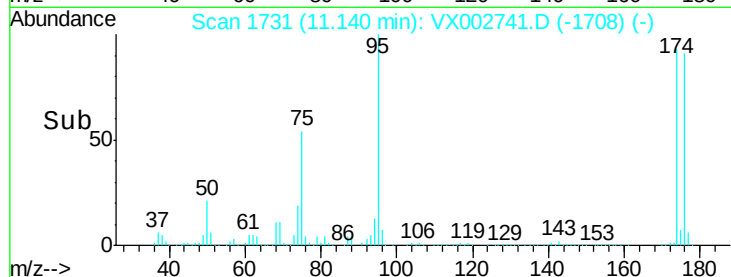
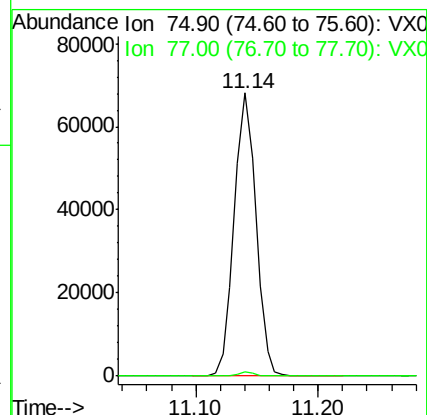
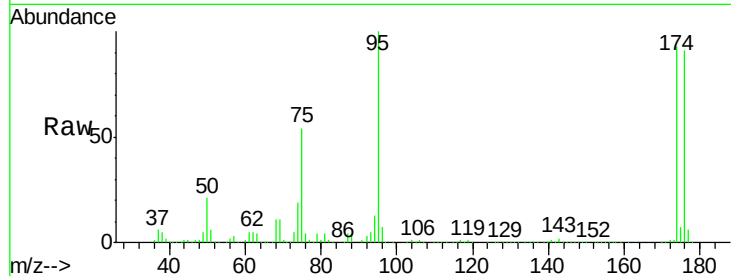
ClientSampleId :

Tot Ion: 75 Resp: 83925

Ion Ratio Lower Upper

75 100

77 1.3 22.8 68.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 82.26 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002741.D

Acq: 20 Jun 2018 04:54

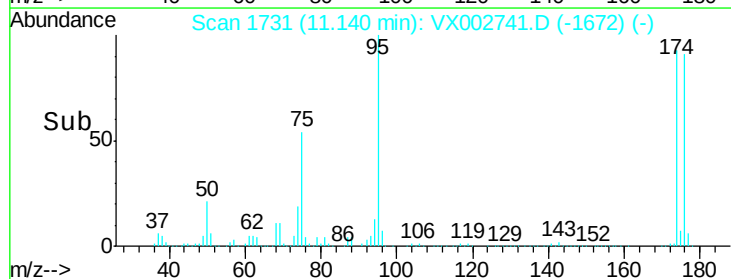
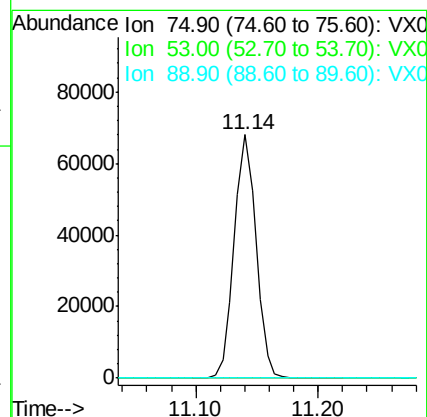
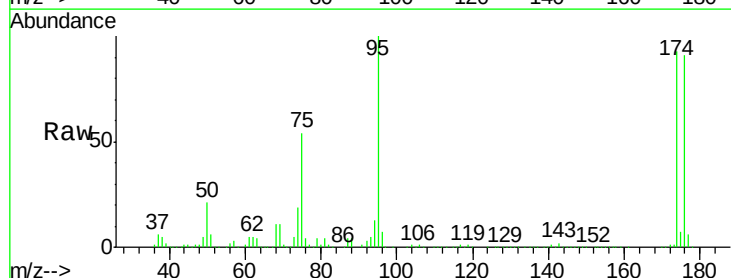
Tgt Ion: 75 Resp: 83925

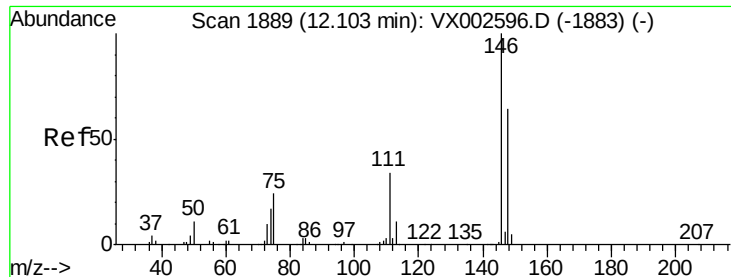
Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#





#88

1,4-Dichlorobenzene

Concen: 0.21 ug/l

RT: 12.10 min Scan# 1889

Delta R.T. 0.00 min

Lab File: VX002741.D

Acq: 20 Jun 2018 04:54

Instrument :

MSVOA_X

ClientSampled :

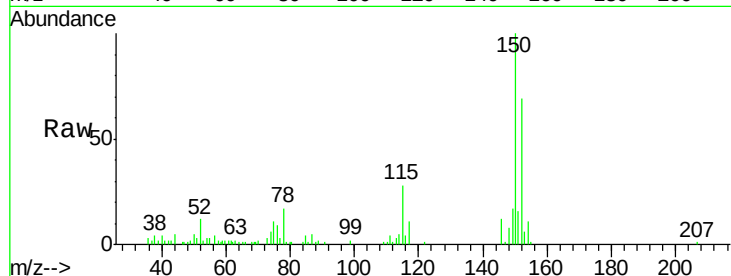
Tot Ion:146 Resp: 1199

Ion Ratio Lower Upper

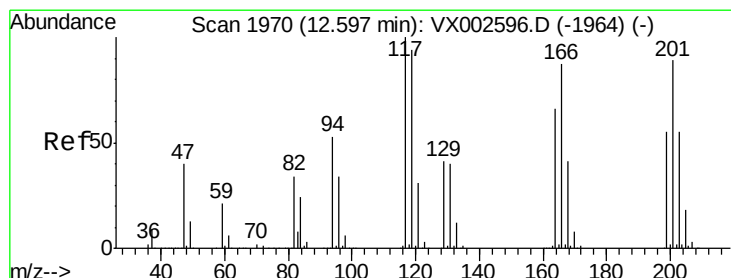
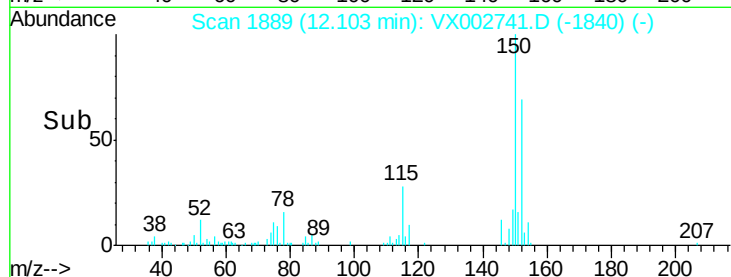
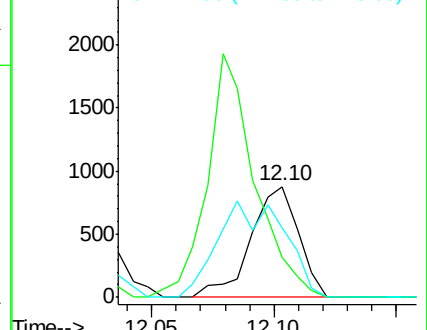
146 100

111 0.0 18.7 56.1#

148 0.0 32.4 97.0#



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#90

Hexachloroethane

Concen: 2.69 ug/l

RT: 12.71 min Scan# 1988

Delta R.T. 0.11 min

Lab File: VX002741.D

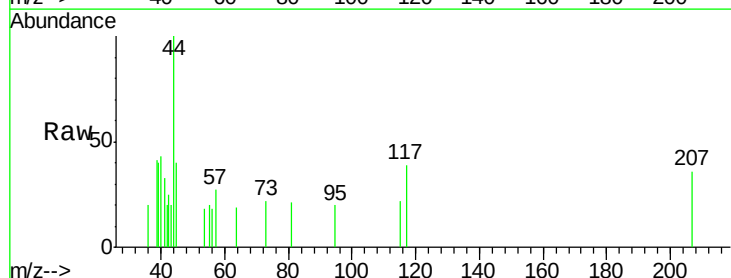
Acq: 20 Jun 2018 04:54

Tgt Ion:117 Resp: 102

Ion Ratio Lower Upper

117 100

201 0.0 49.0 147.0#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V

