

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061918\
 Data File : VX002717.D
 Acq On : 19 Jun 2018 17:11
 Operator : JC/MD
 Sample : J3479-04DL 20X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

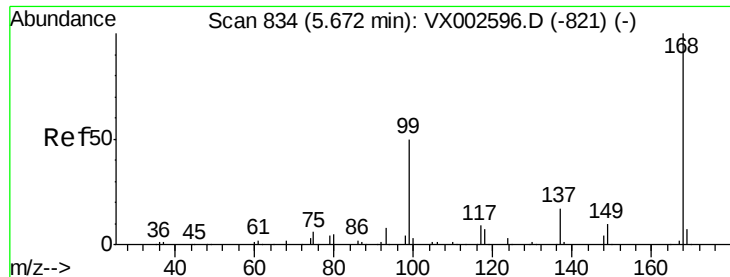
Quant Time: Jun 20 01:03:15 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:37:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	214327	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	307545	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	286374	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	166248	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	162468	49.88	ug/l	0.00
Spiked Amount			Recovery	=	99.76%	
35) Dibromofluoromethane	5.51	113	127416	51.91	ug/l	0.00
Spiked Amount			Recovery	=	103.82%	
50) Toluene-d8	8.72	98	482265	51.75	ug/l	0.00
Spiked Amount			Recovery	=	103.50%	
62) 4-Bromofluorobenzene	11.14	95	171277	48.50	ug/l	0.00
Spiked Amount			Recovery	=	97.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	543	0.20	ug/l	98
5) Bromomethane	1.64	94	483	0.29	ug/l #	63
10) Methyl Iodide	2.54	142	1973	5.69	ug/l #	39
11) Tert butyl alcohol	3.07	59	1120	1.66	ug/l #	54
13) Acrolein	2.31	56	179	7.42	ug/l #	61
15) Acrylonitrile	3.15	53	510	0.35	ug/l	89
16) Acetone	2.45	43	1210	0.84	ug/l #	88
17) Carbon Disulfide	2.57	76	1274	0.22	ug/l #	84
29) Tetrahydrofuran	5.18	42	755	0.61	ug/l #	79
36) 1,1-Dichloropropene	5.67	75	15178	4.65	ug/l #	46
38) Carbon Tetrachloride	5.67	117	20042	6.16	ug/l #	15
40) Benzene	6.15	78	2308	0.24	ug/l	95
53) t-1,3-Dichloropropene	8.44	75	145	2.43	ug/l #	43
54) cis-1,3-Dichloropropene	9.04	75	146	3.25	ug/l #	29
60) Dibromochloromethane	9.34	129	268	3.85	ug/l #	11
65) Chlorobenzene	10.14	112	262791	37.37	ug/l	96
76) 1,2,3-Trichloropropane	11.14	75	91828	29.27	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	91828	90.01	ug/l #	7
87) 1,3-Dichlorobenzene	12.03	146	27292	4.80	ug/l	100
88) 1,4-Dichlorobenzene	12.10	146	82602	14.29	ug/l	99
90) Hexachloroethane	12.55	117	55	2.66	ug/l #	1
91) 1,2-Dichlorobenzene	12.40	146	635137	111.09	ug/l	99
93) 1,2,4-Trichlorobenzene	13.65	180	2234	0.54	ug/l	90
96) 1,2,3-Trichlorobenzene	14.02	180	1555	0.37	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX002717.D

Acq: 19 Jun 2018 17:11

Instrument :

MSVOA_X

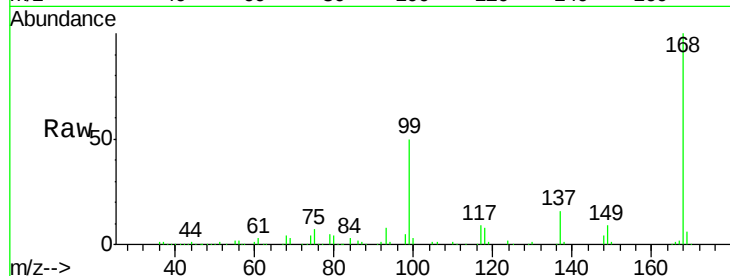
ClientSampleId :

Tot Ion:168 Resp: 214327

Ion Ratio Lower Upper

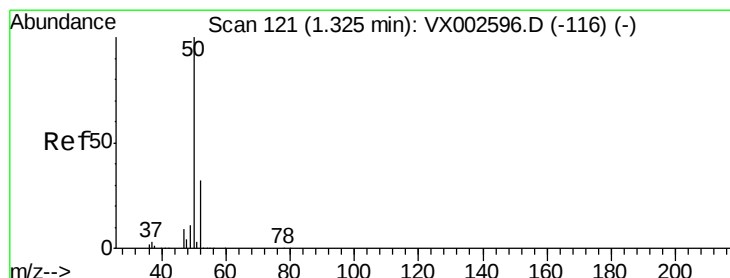
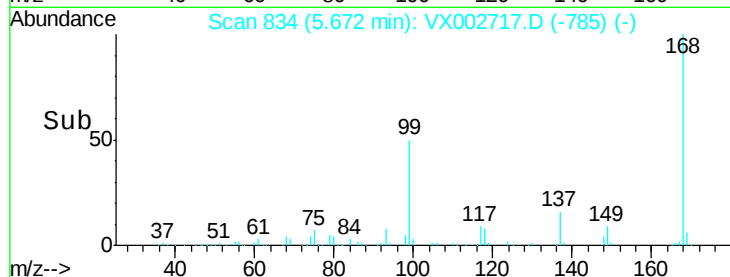
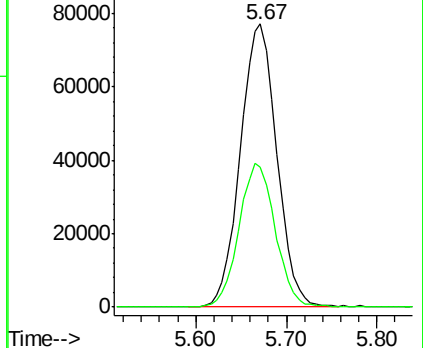
168 100

99 49.7 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: 0.20 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002717.D

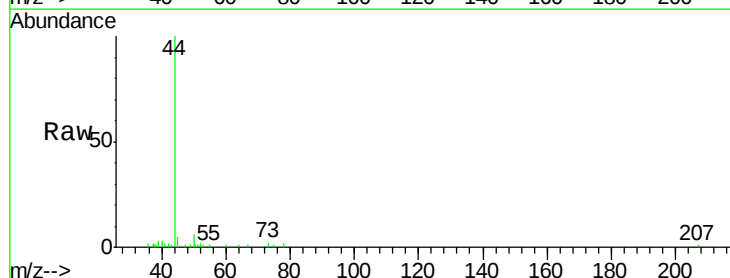
Acq: 19 Jun 2018 17:11

Tgt Ion: 50 Resp: 543

Ion Ratio Lower Upper

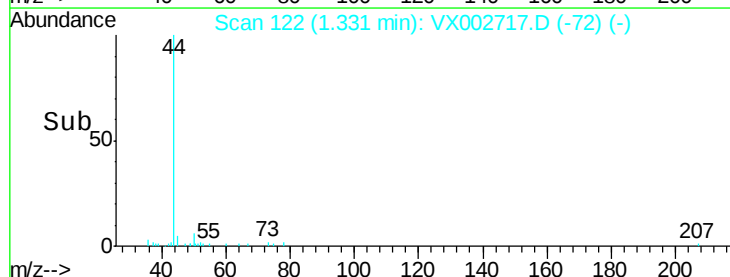
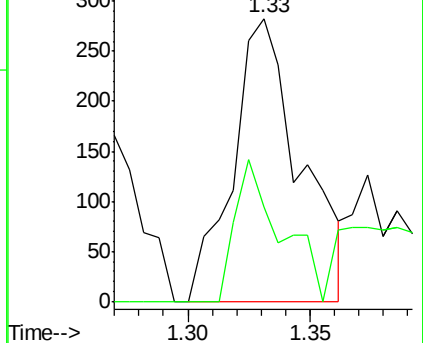
50 100

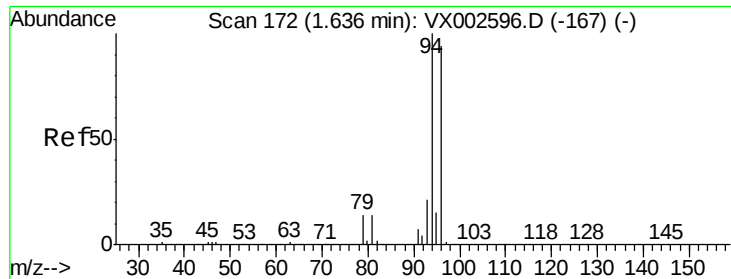
52 33.2 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.29 ug/l

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX002717.D

Acq: 19 Jun 2018 17:11

Instrument :

MSVOA_X

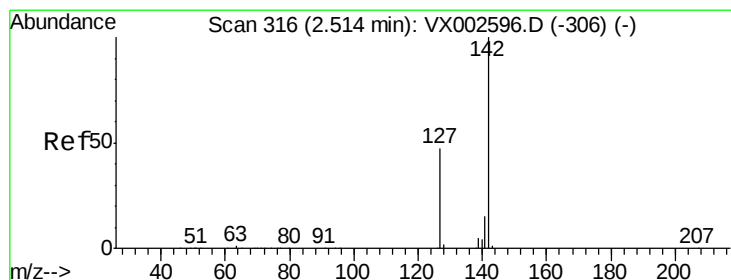
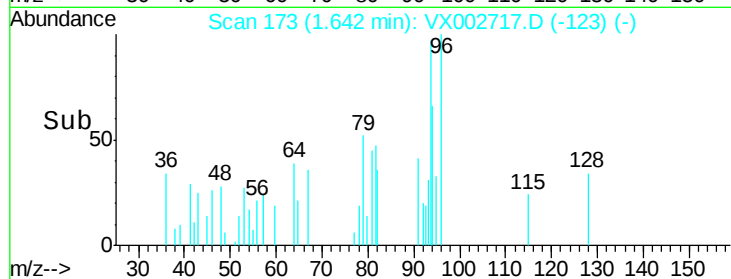
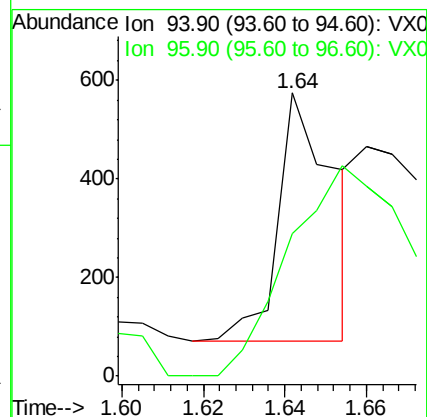
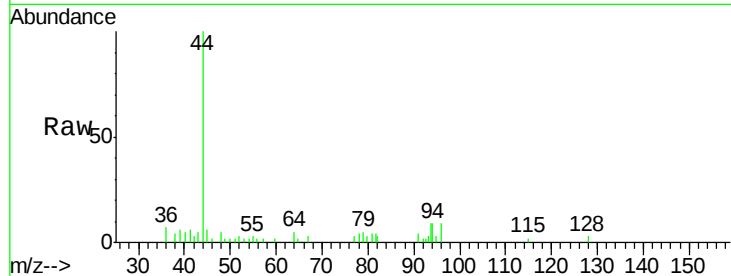
ClientSampled :

Tot Ion: 94 Resp: 483

Ion Ratio Lower Upper

94 100

96 57.8 74.9 112.3#



#10

Methyl Iodide

Concen: 5.69 ug/l

RT: 2.54 min Scan# 320

Delta R.T. 0.02 min

Lab File: VX002717.D

Acq: 19 Jun 2018 17:11

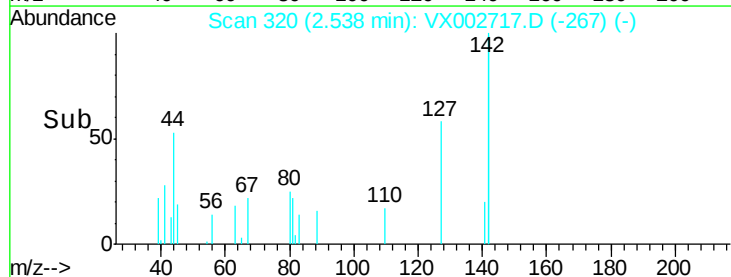
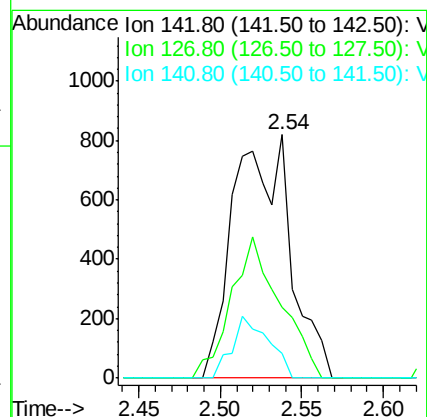
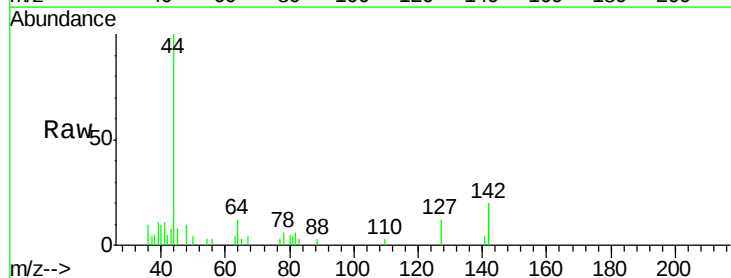
Tgt Ion: 142 Resp: 1973

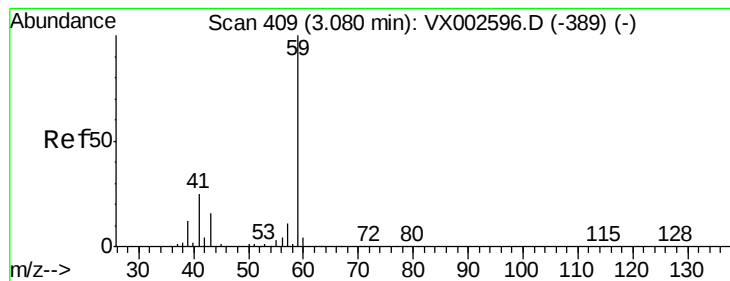
Ion Ratio Lower Upper

142 100

127 0.0 36.6 55.0#

141 0.0 11.3 16.9#



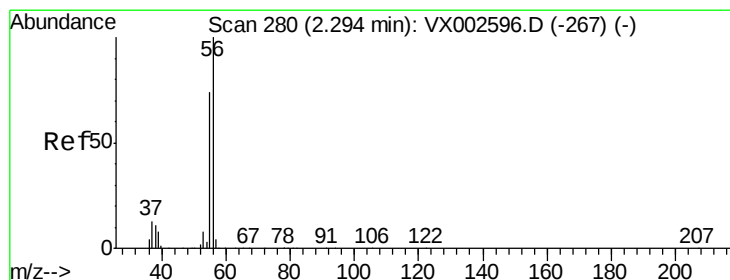
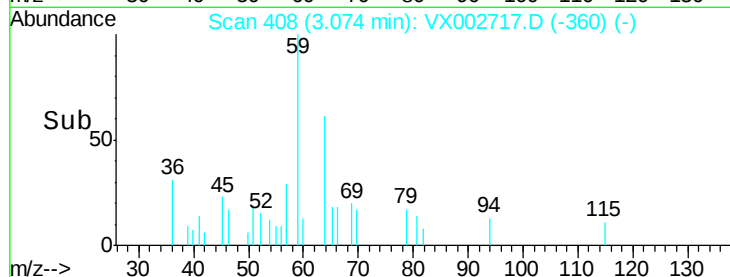
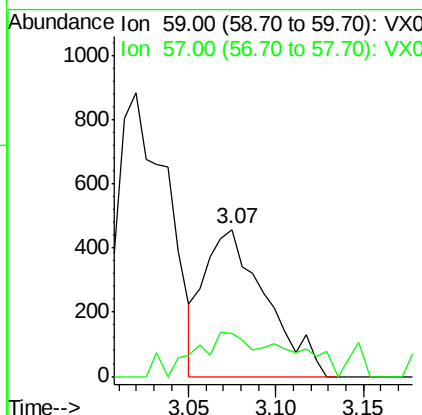
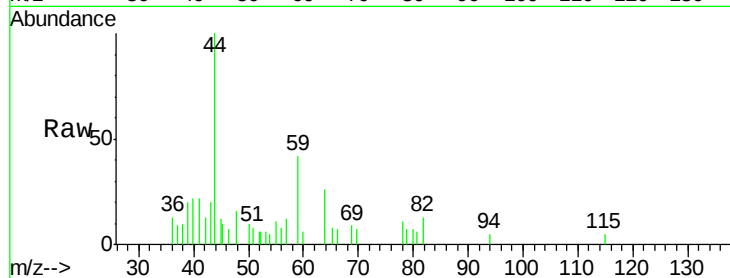


#11

Tert butyl alcohol
Concen: 1.66 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX002717.D
Acq: 19 Jun 2018 17:11

Instrument :
MSVOA_X
ClientSampleId :

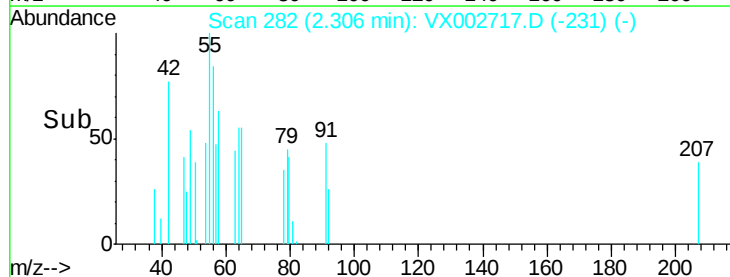
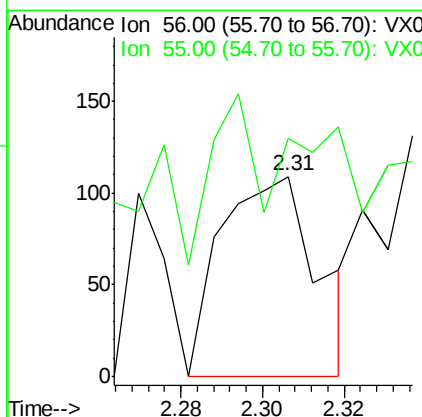
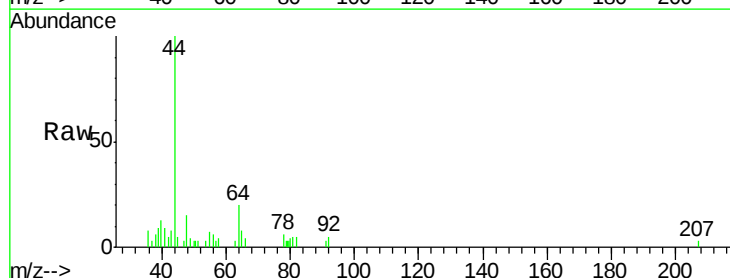
Tot Ion: 59 Resp: 1120
Ion Ratio Lower Upper
59 100
57 27.5 8.2 12.2#

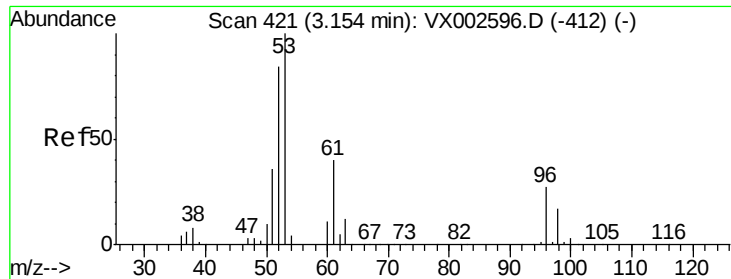


#13

Acrolein
Concen: 7.42 ug/l
RT: 2.31 min Scan# 282
Delta R.T. 0.01 min
Lab File: VX002717.D
Acq: 19 Jun 2018 17:11

Tgt Ion: 56 Resp: 179
Ion Ratio Lower Upper
56 100
55 38.5 57.0 85.4#





#15

Acrylonitrile

Concen: 0.35 ug/l

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: VX002717.D

Acq: 19 Jun 2018 17:11

Instrument :
MSVOA_X
ClientSampled :

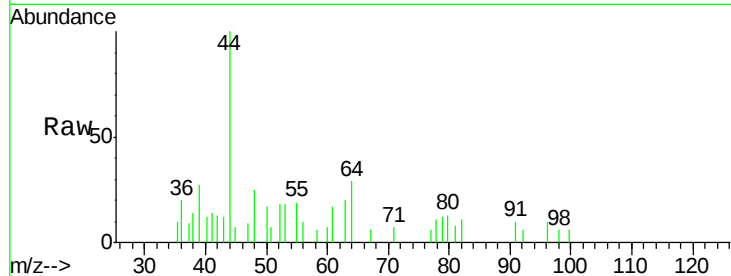
Tot Ion: 53 Resp: 510

Ion Ratio Lower Upper

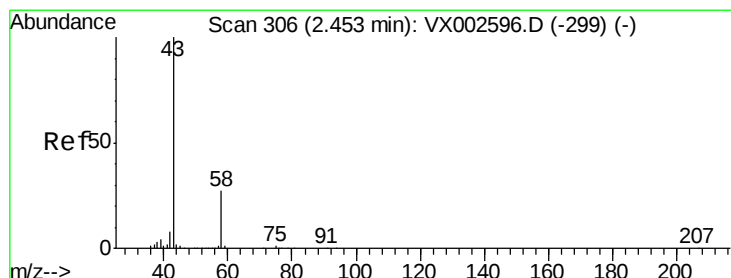
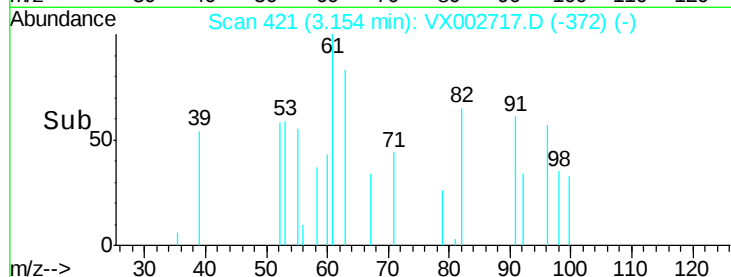
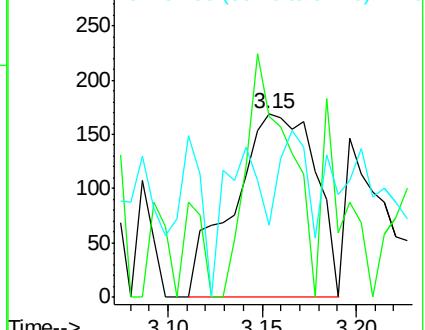
53 100

52 69.2 66.7 100.1

51 38.4 29.9 44.9



Abundance Ion 53.00 (52.70 to 53.70): VX0
Ion 52.00 (51.70 to 52.70): VX0
Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 0.84 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002717.D

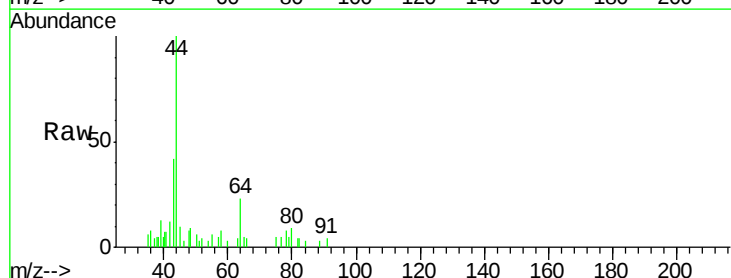
Acq: 19 Jun 2018 17:11

Tgt Ion: 43 Resp: 1210

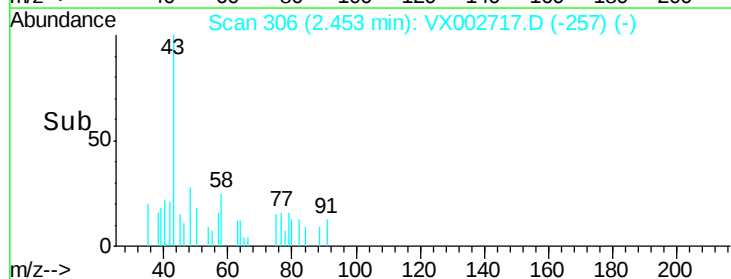
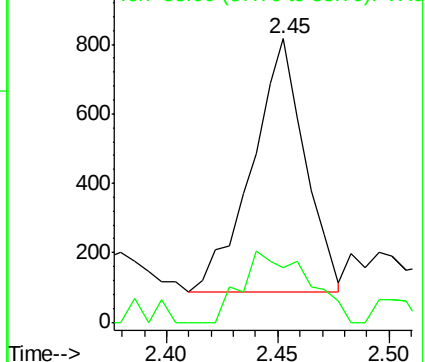
Ion Ratio Lower Upper

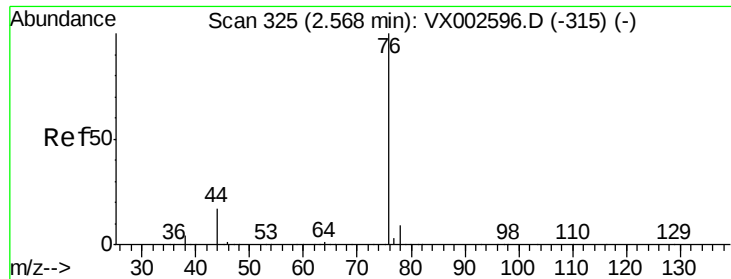
43 100

58 21.3 22.1 33.1#



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

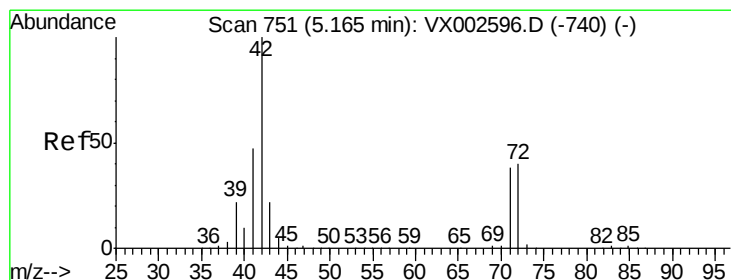
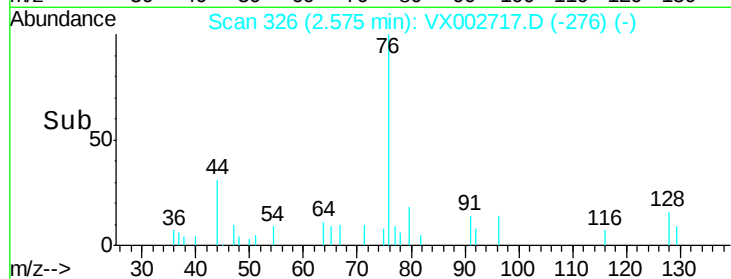
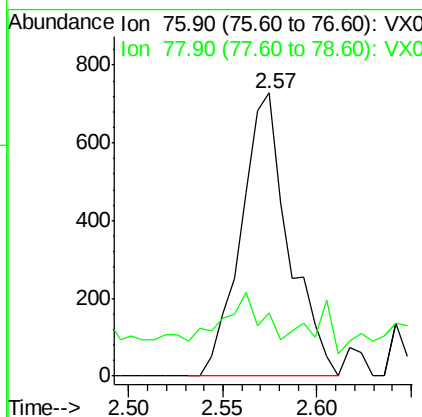
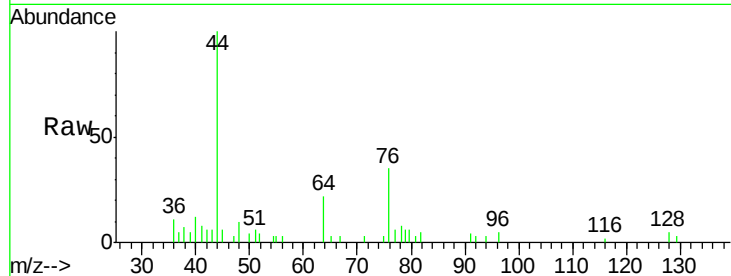




#17
Carbon Disulfide
Concen: 0.22 ug/l
RT: 2.57 min Scan# 326
Delta R.T. 0.01 min
Lab File: VX002717.D
Acq: 19 Jun 2018 17:11

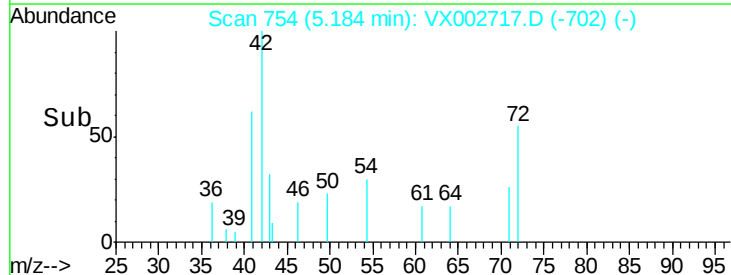
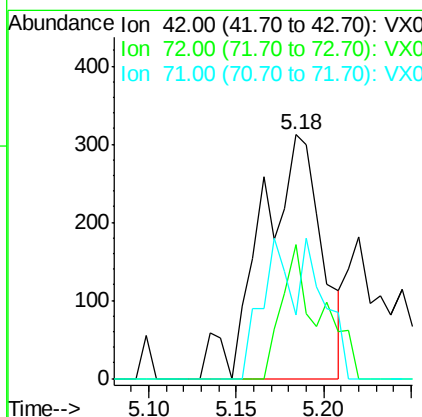
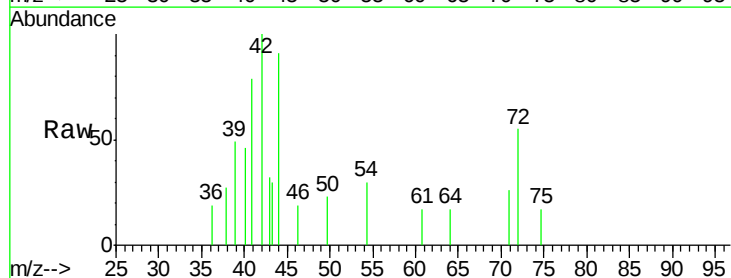
Instrument :
MSVOA_X
ClientSampled :

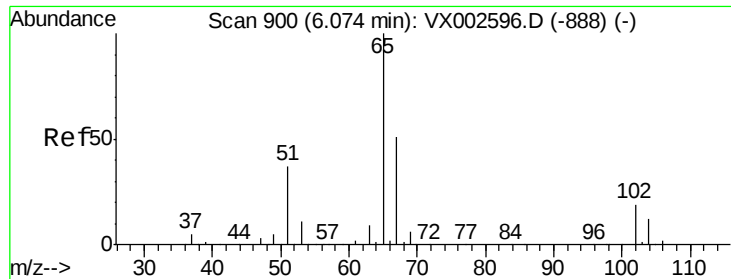
Tot Ion: 76 Resp: 1274
Ion Ratio Lower Upper
76 100
78 14.4 6.9 10.3#



#29
Tetrahydrofuran
Concen: 0.61 ug/l
RT: 5.18 min Scan# 754
Delta R.T. 0.02 min
Lab File: VX002717.D
Acq: 19 Jun 2018 17:11

Tgt Ion: 42 Resp: 755
Ion Ratio Lower Upper
42 100
72 23.8 32.0 48.0#
71 27.9 30.1 45.1#





#33

1,2-Dichloroethane-d4

Concen: 49.88 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002717.D

Acq: 19 Jun 2018 17:11

Instrument :

MSVOA_X

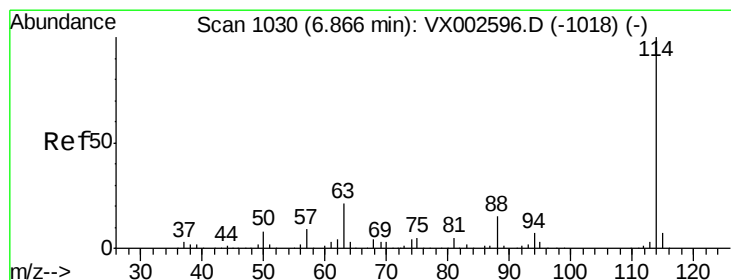
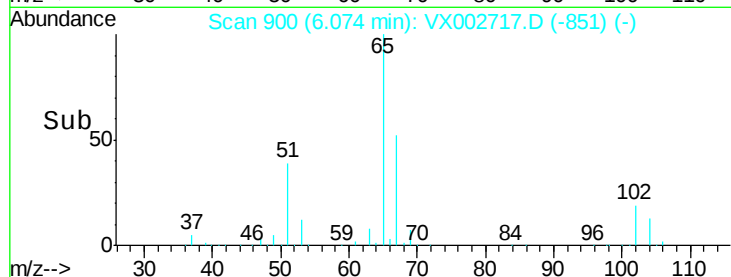
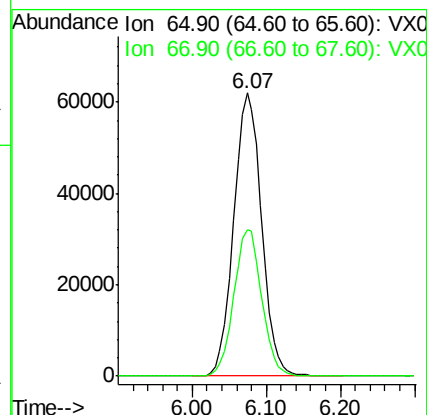
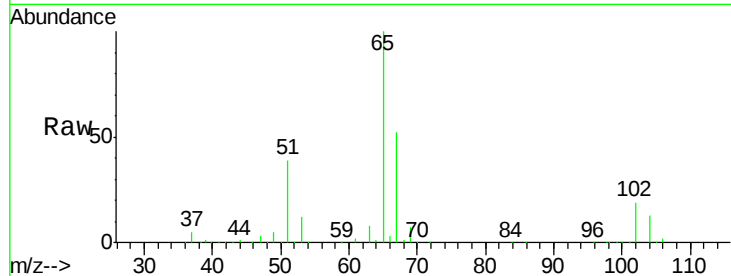
ClientSampleId :

Tot Ion: 65 Resp: 162468

Ion Ratio Lower Upper

65 100

67 51.6 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: VX002717.D

Acq: 19 Jun 2018 17:11

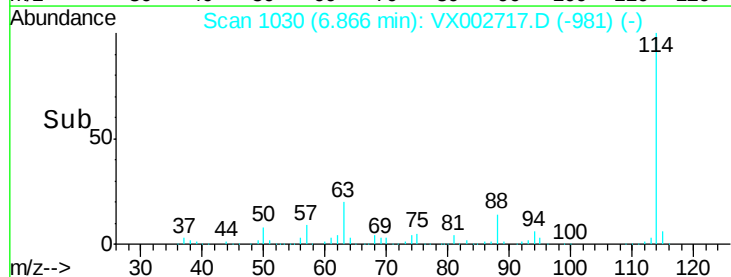
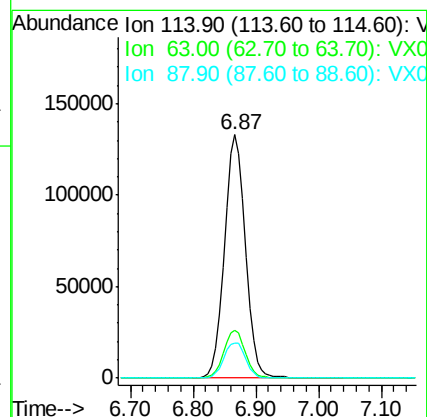
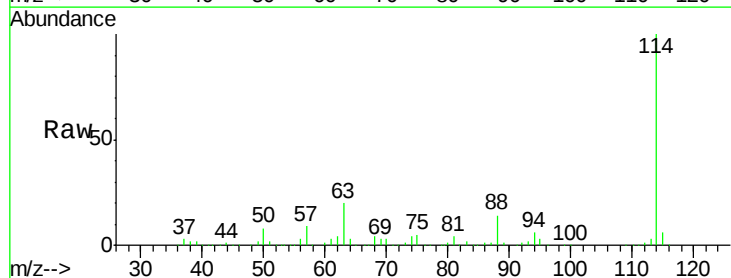
Tgt Ion: 114 Resp: 307545

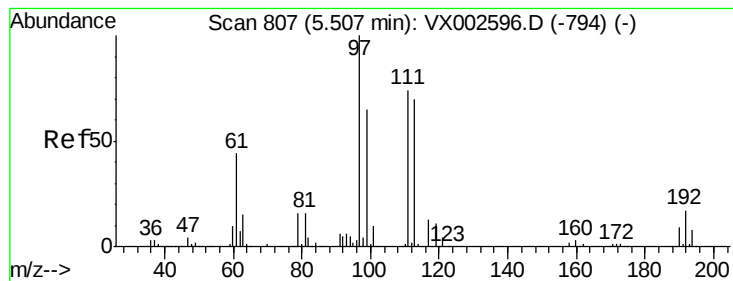
Ion Ratio Lower Upper

114 100

63 19.8 0.0 41.4

88 14.1 0.0 30.0





#35

Dibromofluoromethane

Concen: 51.91 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX002717.D

Acq: 19 Jun 2018 17:11

Instrument :

MSVOA_X

ClientSampleId :

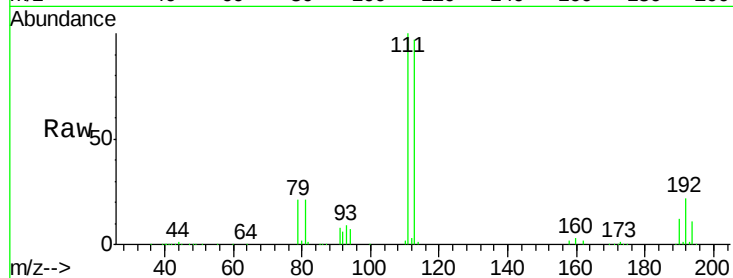
Tot Ion:113 Resp: 127416

Ion Ratio Lower Upper

113 100

111 101.4 81.4 122.0

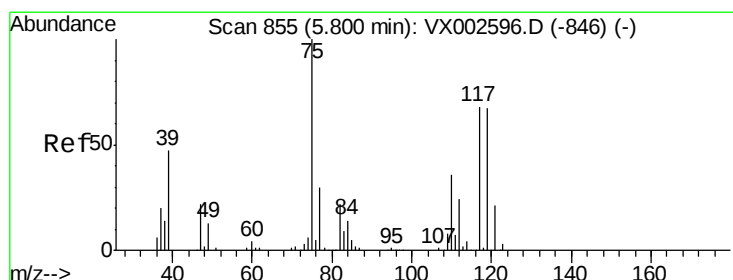
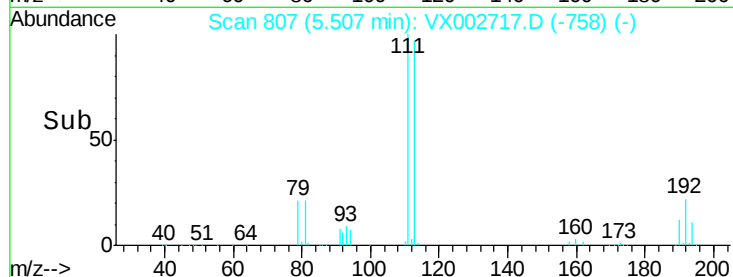
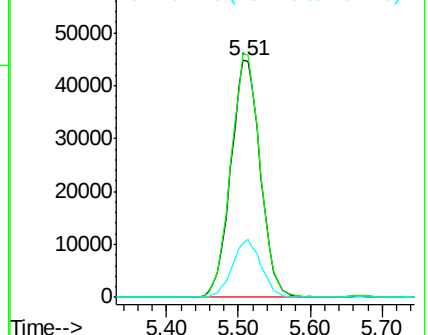
192 23.7 19.1 28.7



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: 4.65 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX002717.D

Acq: 19 Jun 2018 17:11

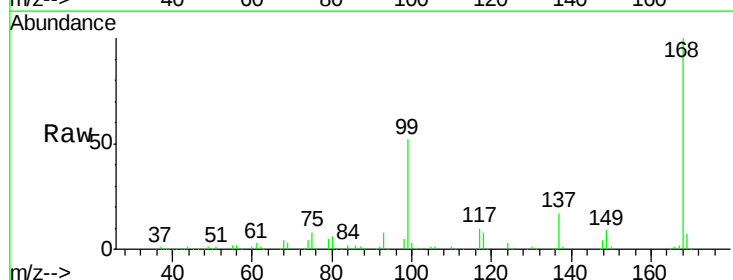
Tgt Ion: 75 Resp: 15178

Ion Ratio Lower Upper

75 100

110 5.3 18.1 54.4#

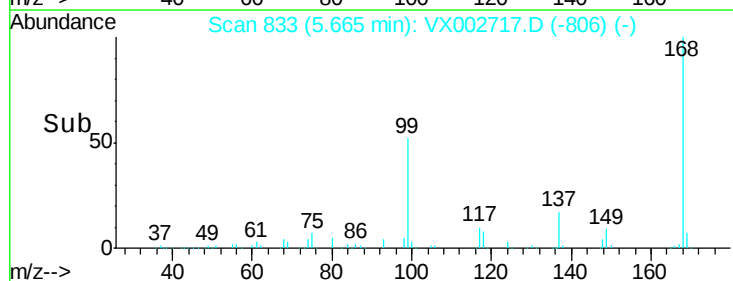
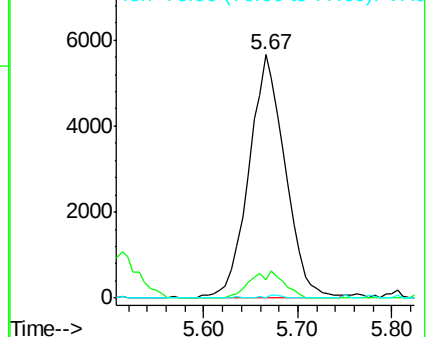
77 0.5 24.3 36.5#

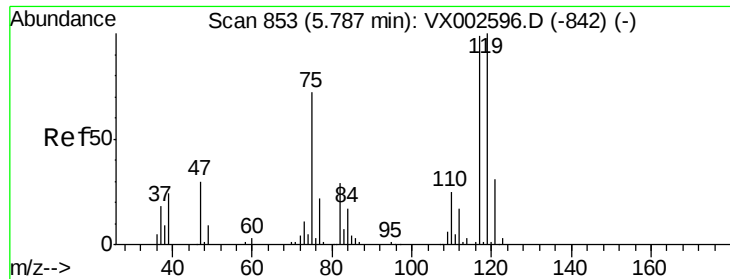


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

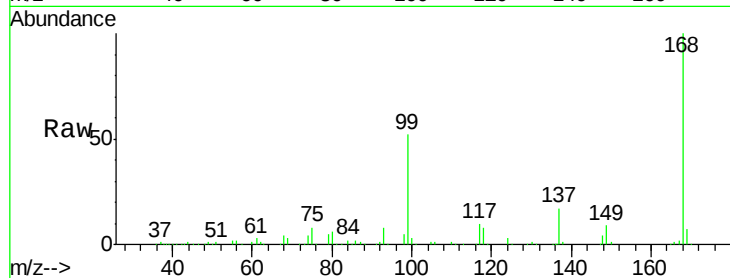




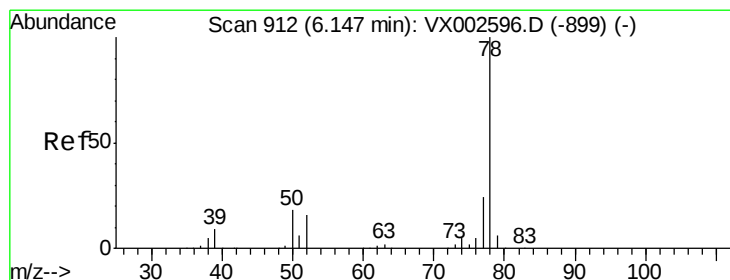
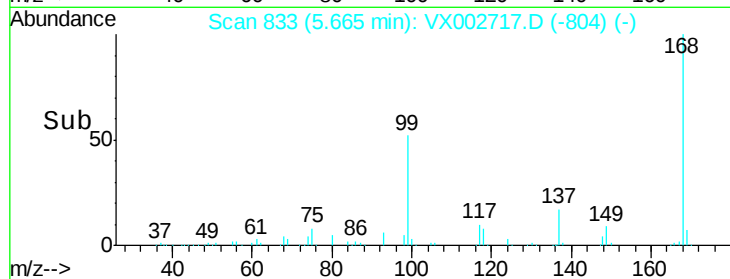
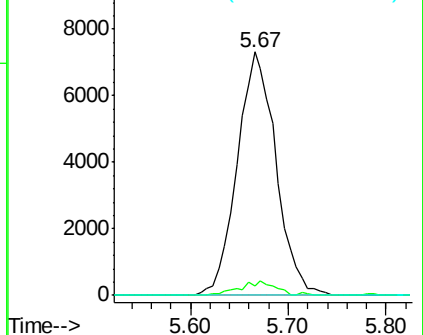
#38
Carbon Tetrachloride
Concen: 6.16 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX002717.D
Acq: 19 Jun 2018 17:11

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 20042
Ion Ratio Lower Upper
117 100
119 3.7 77.4 116.0#
121 0.0 24.4 36.6#

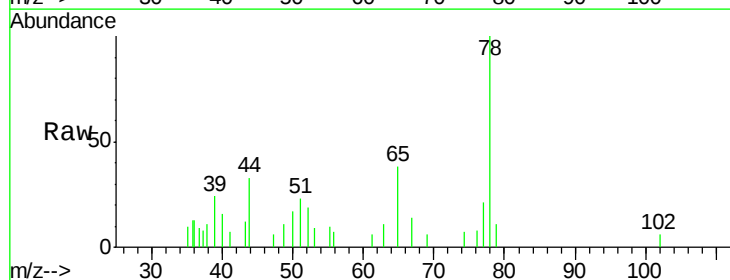


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

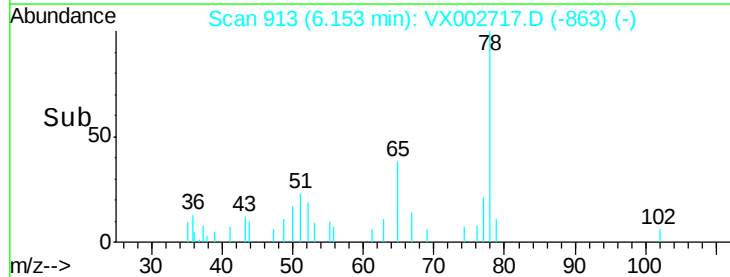
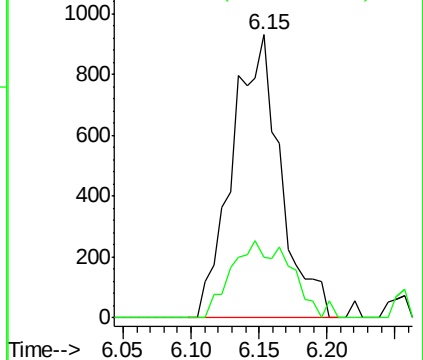


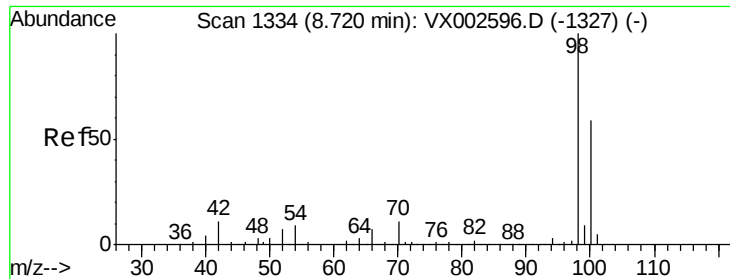
#40
Benzene
Concen: 0.24 ug/l
RT: 6.15 min Scan# 913
Delta R.T. 0.01 min
Lab File: VX002717.D
Acq: 19 Jun 2018 17:11

Tgt Ion: 78 Resp: 2308
Ion Ratio Lower Upper
78 100
77 21.3 19.1 28.7



Abundance Ion 78.00 (77.70 to 78.70): VX0
Ion 77.00 (76.70 to 77.70): VX0

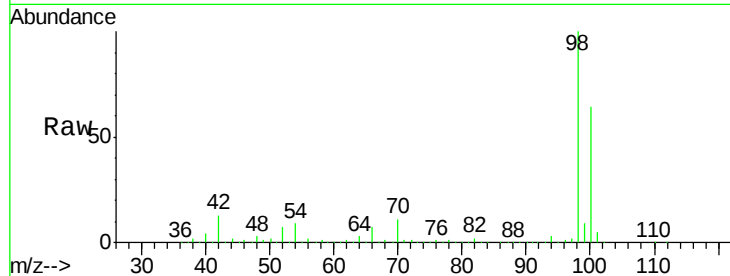




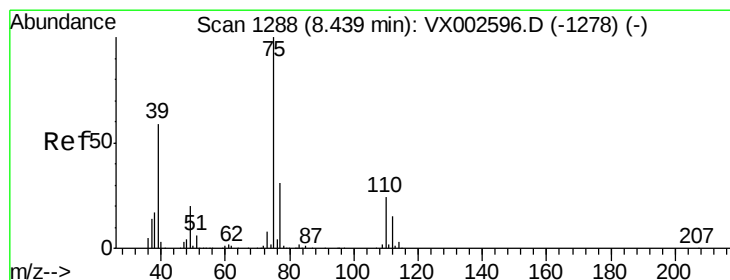
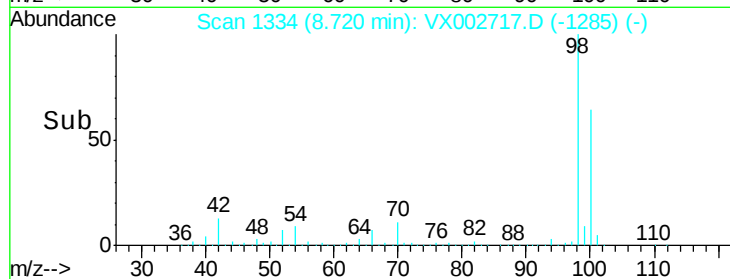
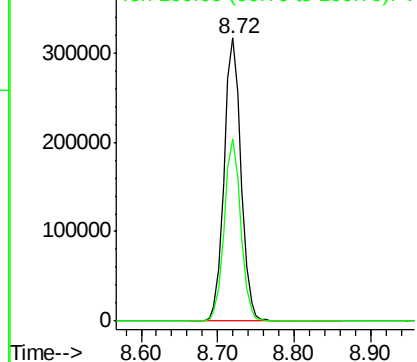
#50
Toluene-d8
Concen: 51.75 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002717.D
Acq: 19 Jun 2018 17:11

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 98 Resp: 482265
Ion Ratio Lower Upper
98 100
100 63.3 50.9 76.3

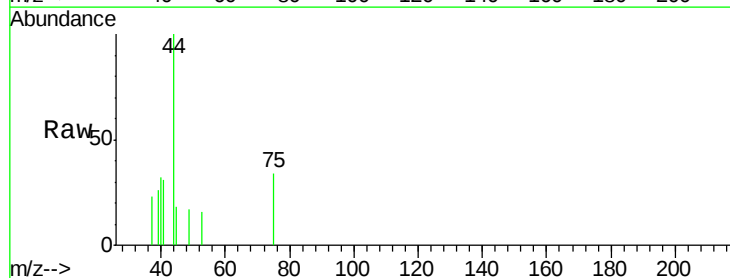


Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0

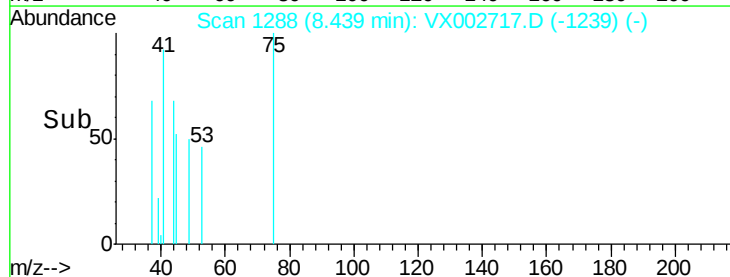
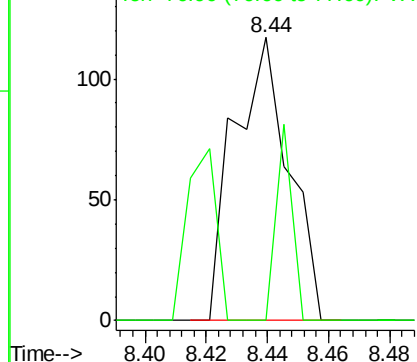


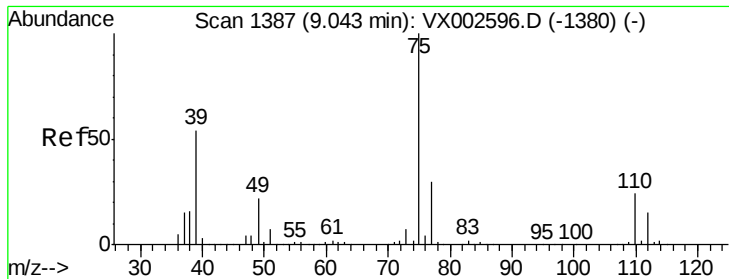
#53
t-1,3-Dichloropropene
Concen: 2.43 ug/l
RT: 8.44 min Scan# 1288
Delta R.T. 0.00 min
Lab File: VX002717.D
Acq: 19 Jun 2018 17:11

Tgt Ion: 75 Resp: 145
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 76.90 (76.60 to 77.60): VX0



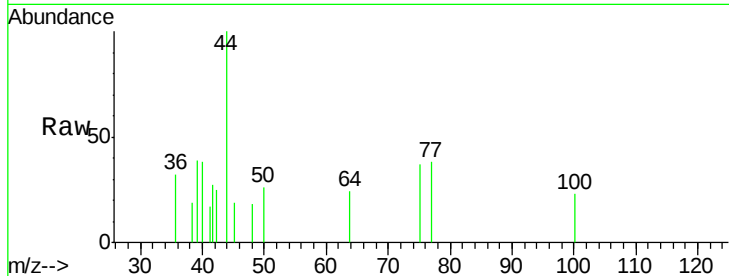


#54

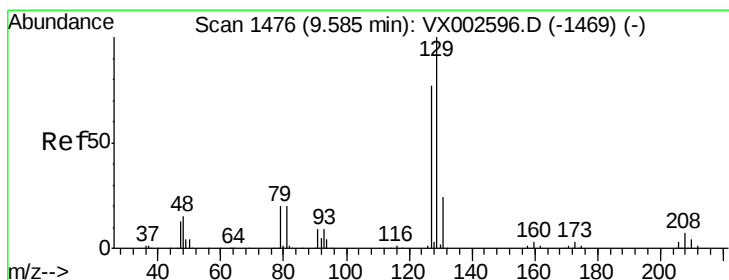
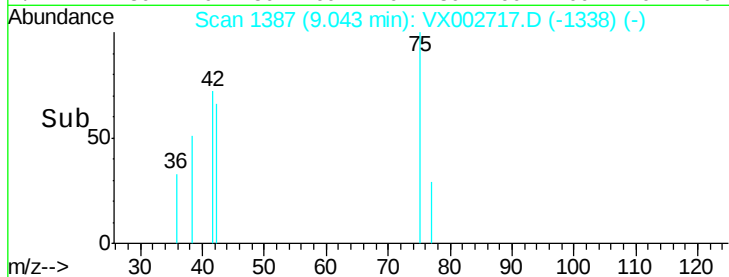
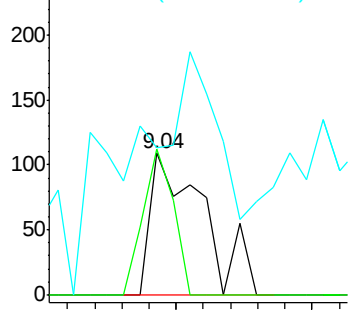
cis-1,3-Dichloropropene
Concen: 3.25 ug/l
RT: 9.04 min Scan# 1387
Delta R.T. 0.00 min
Lab File: VX002717.D
Acq: 19 Jun 2018 17:11

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 75 Resp: 146
Ion Ratio Lower Upper
75 100
77 102.8 24.8 37.2#
39 27.5 42.4 63.6#



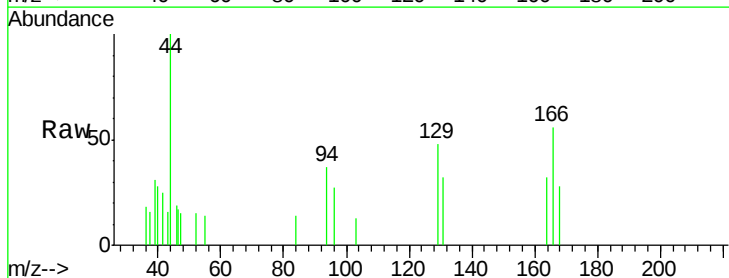
Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 76.90 (76.60 to 77.60): VX0
Ion 39.00 (38.70 to 39.70): VX0



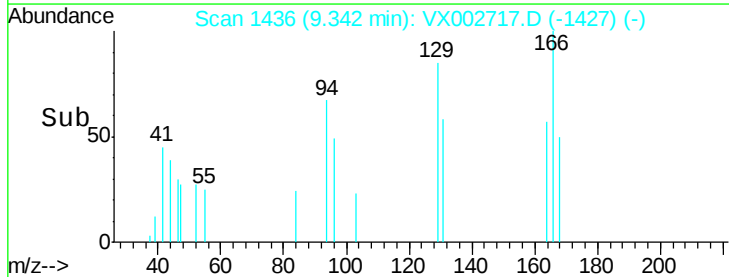
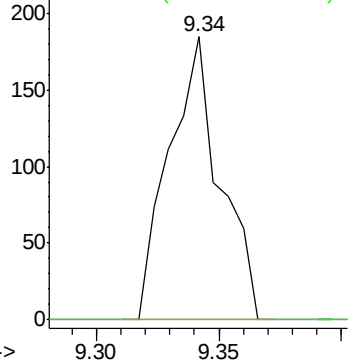
#60

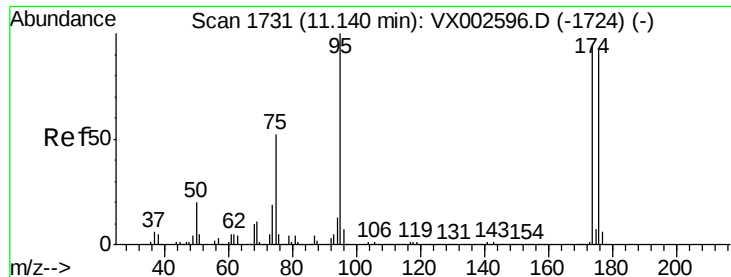
Dibromochloromethane
Concen: 3.85 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. -0.24 min
Lab File: VX002717.D
Acq: 19 Jun 2018 17:11

Tgt Ion: 129 Resp: 268
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

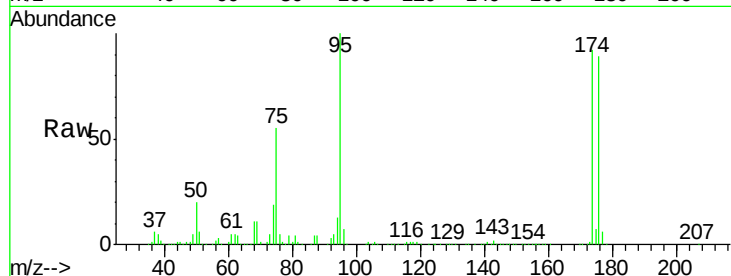




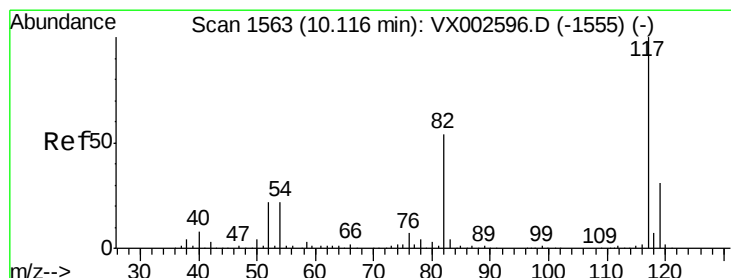
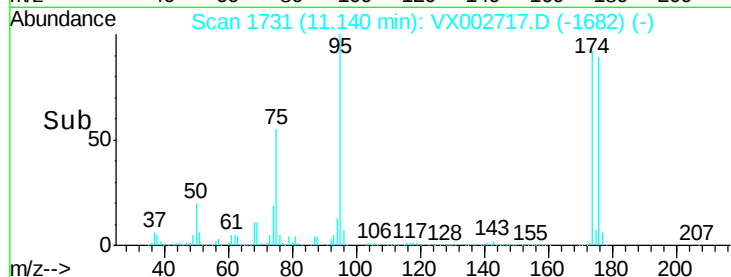
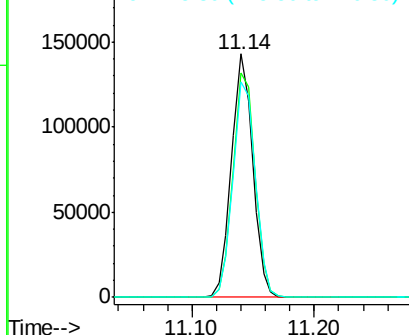
#62
4-Bromofluorobenzene
Concen: 48.50 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002717.D
Acq: 19 Jun 2018 17:11

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 95 Resp: 171277
Ion Ratio Lower Upper
95 100
174 96.1 0.0 187.4
176 93.3 0.0 181.0

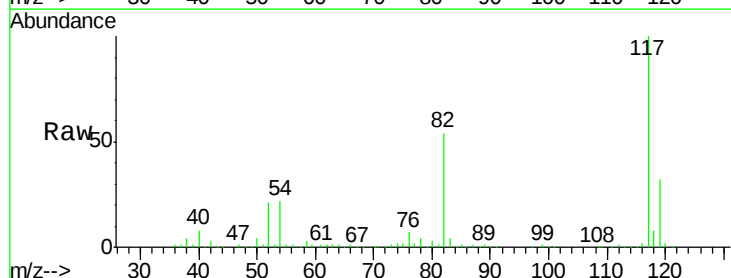


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

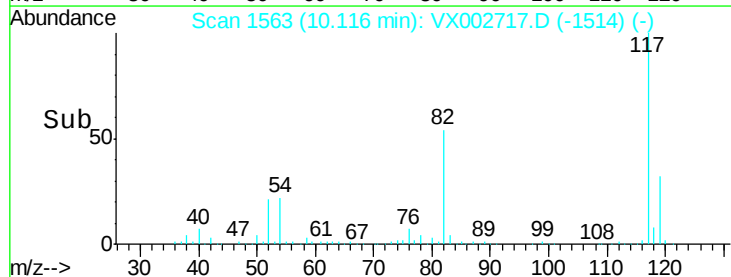
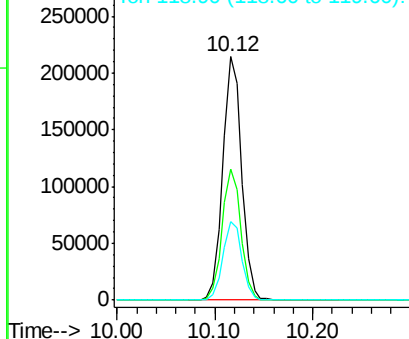


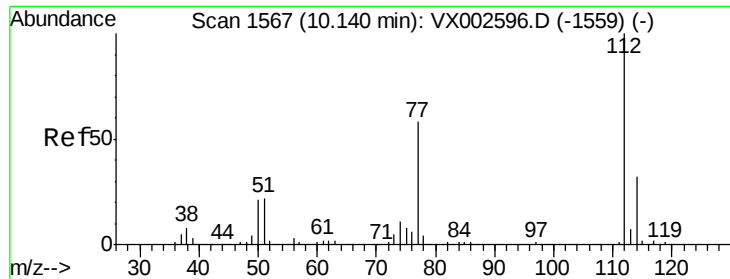
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002717.D
Acq: 19 Jun 2018 17:11

Tgt Ion: 117 Resp: 286374
Ion Ratio Lower Upper
117 100
82 54.0 45.0 67.4
119 32.4 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





#65

Chlorobenzene

Concen: 37.37 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VX002717.D

Acq: 19 Jun 2018 17:11

Instrument :

MSVOA_X

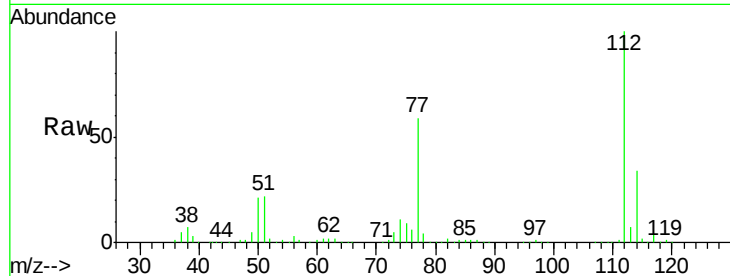
ClientSampleId :

Tot Ion:112 Resp: 262791

Ion Ratio Lower Upper

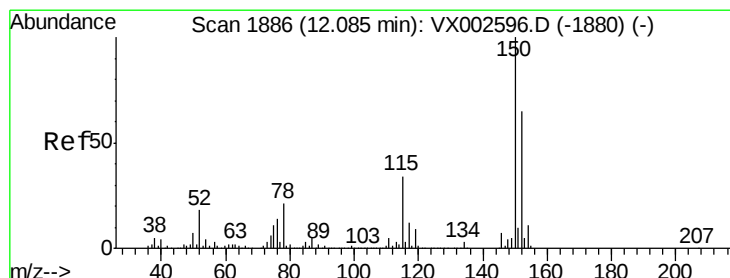
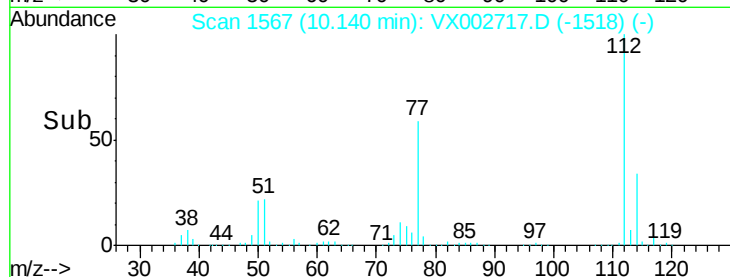
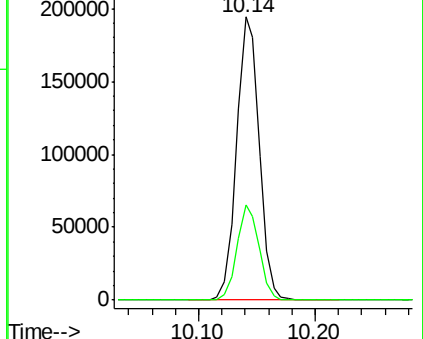
112 100

114 33.6 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: VX002717.D

Acq: 19 Jun 2018 17:11

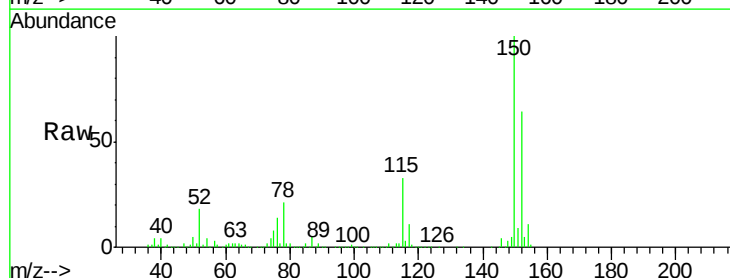
Tgt Ion:152 Resp: 166248

Ion Ratio Lower Upper

152 100

115 54.4 40.1 120.2

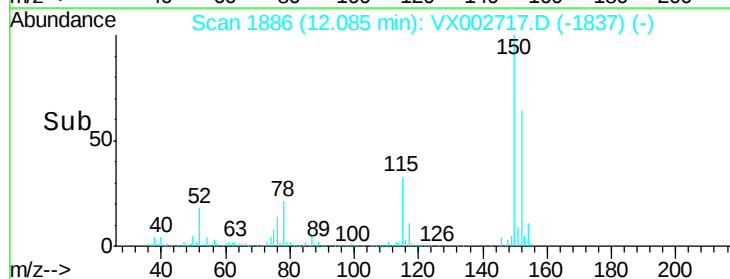
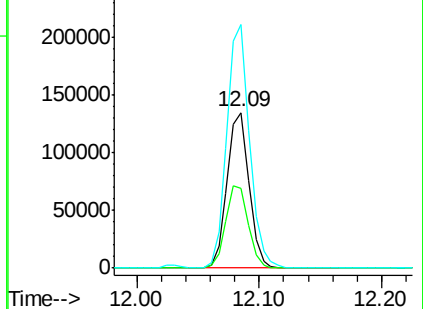
150 162.2 0.0 347.2

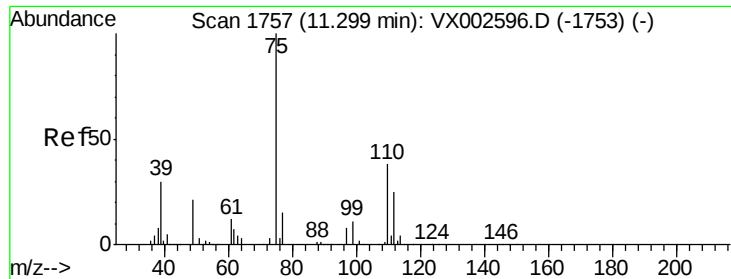


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

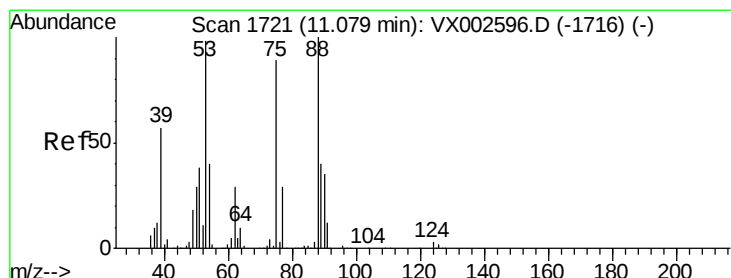
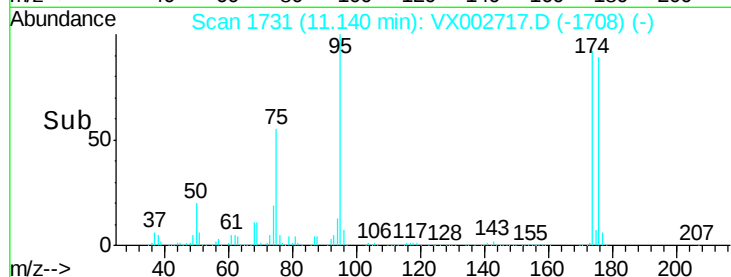
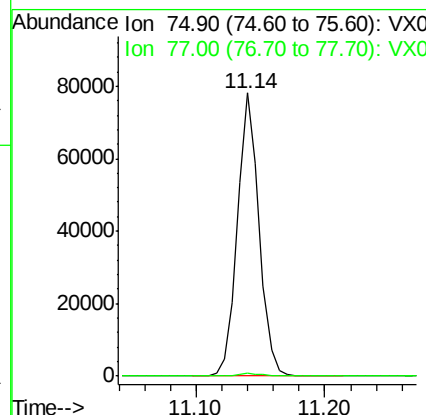
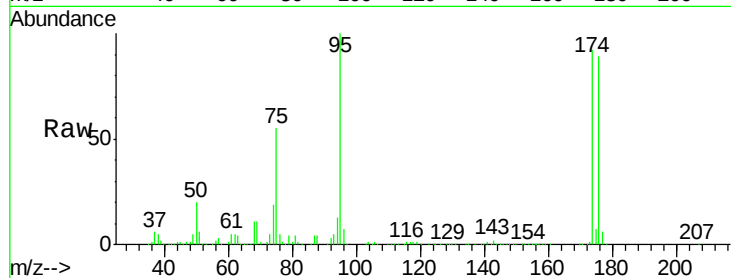




#76
 1,2,3-Trichloropropane
 Concen: 29.27 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002717.D
 Acq: 19 Jun 2018 17:11

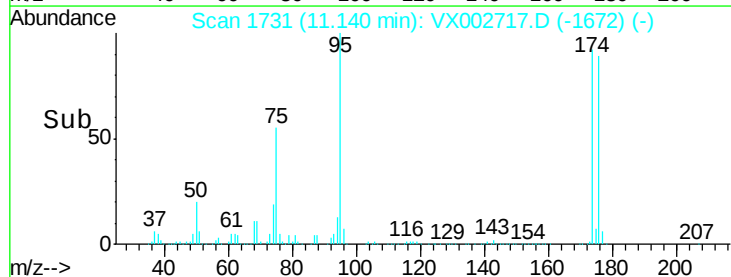
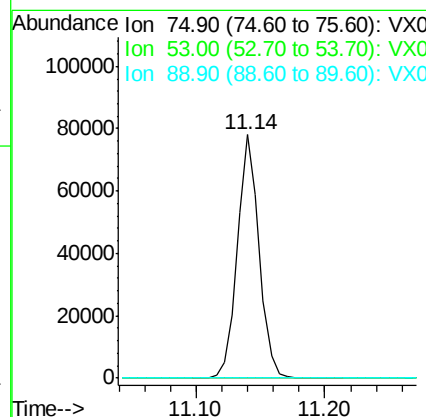
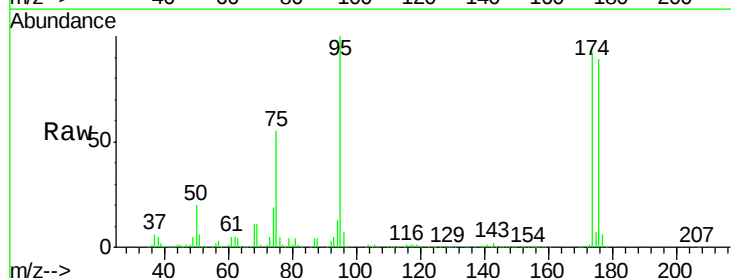
Instrument :
 MSVOA_X
 ClientSampleId :

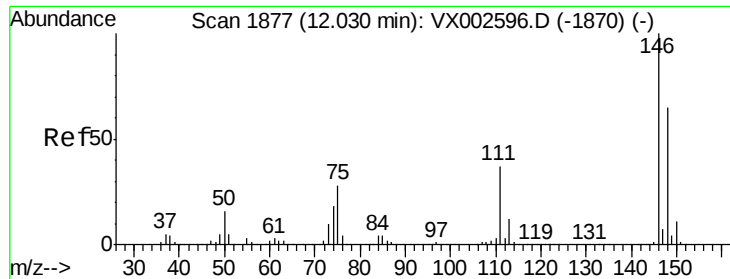
Tot Ion: 75 Resp: 91828
 Ion Ratio Lower Upper
 75 100
 77 1.1 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 90.01 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002717.D
 Acq: 19 Jun 2018 17:11

Tgt Ion: 75 Resp: 91828
 Ion Ratio Lower Upper
 75 100
 53 0.1 86.8 130.2#
 89 0.0 38.2 57.2#





#87

1,3-Dichlorobenzene

Concen: 4.80 ug/l

RT: 12.03 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VX002717.D

Acq: 19 Jun 2018 17:11

Instrument :

MSVOA_X

ClientSampleId :

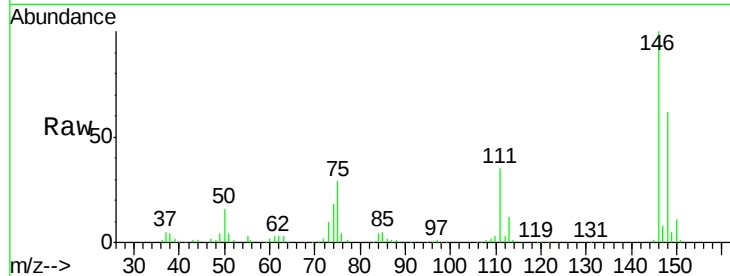
Tot Ion:146 Resp: 27292

Ion Ratio Lower Upper

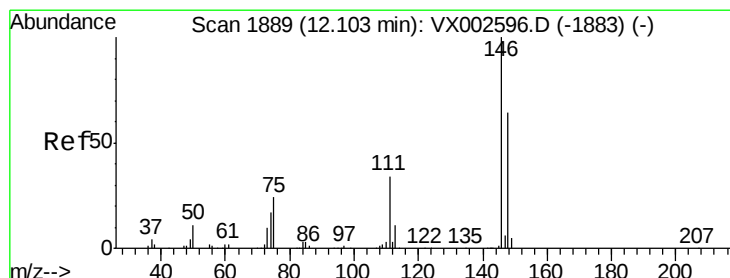
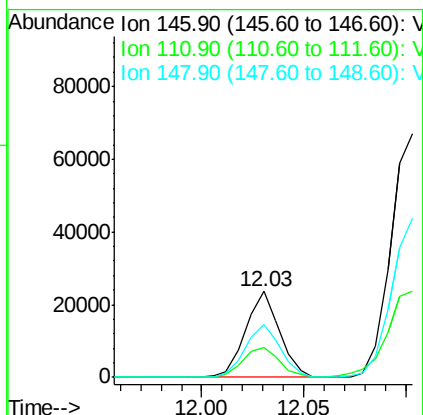
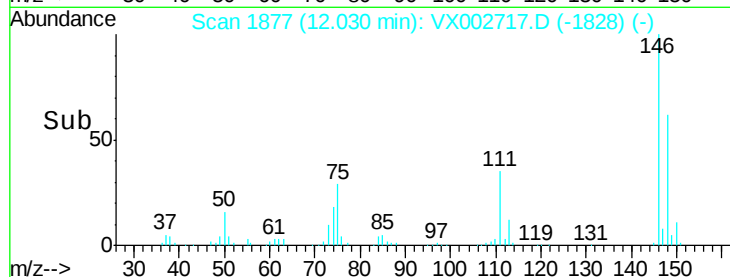
146 100

111 37.7 18.9 56.7

148 64.5 32.1 96.3



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



#88

1,4-Dichlorobenzene

Concen: 14.29 ug/l

RT: 12.10 min Scan# 1889

Delta R.T. 0.00 min

Lab File: VX002717.D

Acq: 19 Jun 2018 17:11

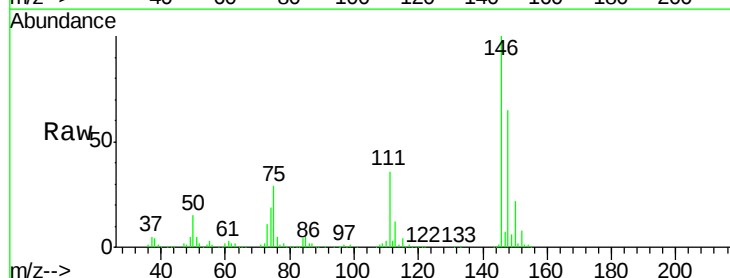
Tgt Ion:146 Resp: 82602

Ion Ratio Lower Upper

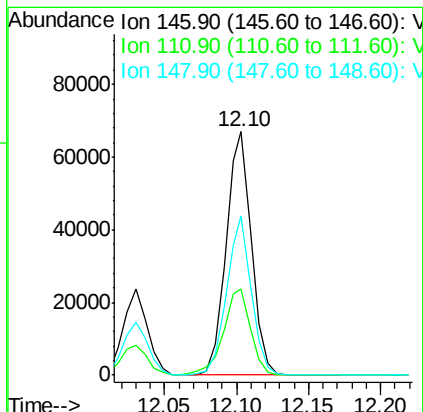
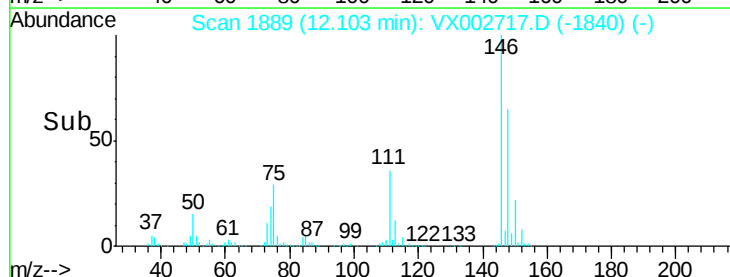
146 100

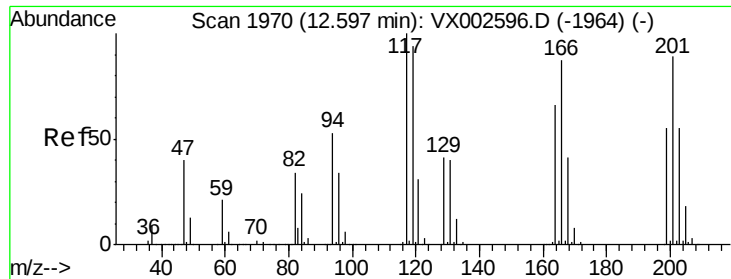
111 38.3 18.7 56.1

148 63.9 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: 2.66 ug/l

RT: 12.55 min Scan# 1962

Delta R.T. -0.05 min

Lab File: VX002717.D

Acq: 19 Jun 2018 17:11

Instrument :

MSVOA_X

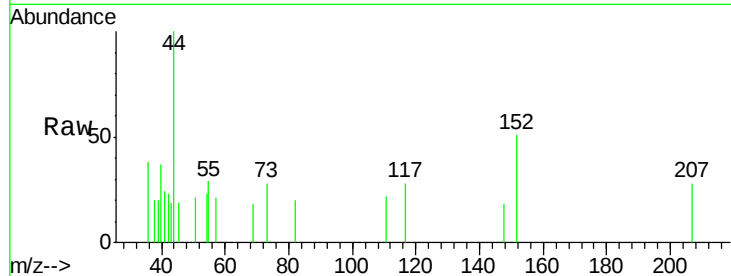
ClientSampled :

Tot Ion:117 Resp: 55

Ion Ratio Lower Upper

117 100

201 0.0 49.0 147.0#

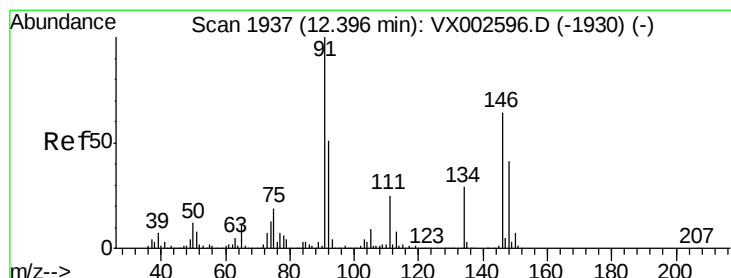
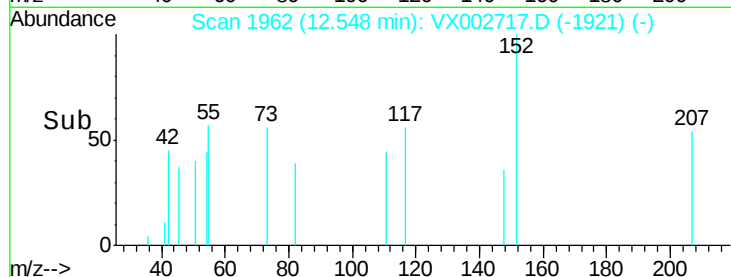


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

12.55

Time-->



#91

1,2-Dichlorobenzene

Concen: 111.09 ug/l

RT: 12.40 min Scan# 1937

Delta R.T. 0.00 min

Lab File: VX002717.D

Acq: 19 Jun 2018 17:11

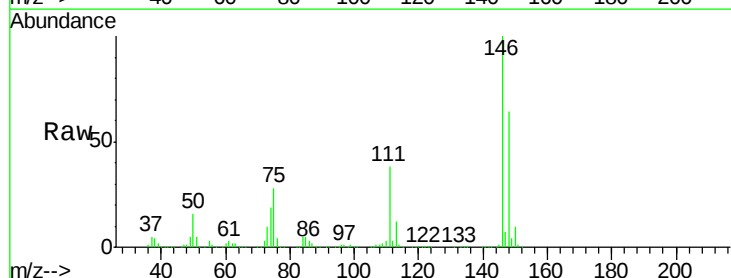
Tgt Ion:146 Resp: 635137

Ion Ratio Lower Upper

146 100

111 38.4 19.4 58.1

148 64.1 31.7 95.1



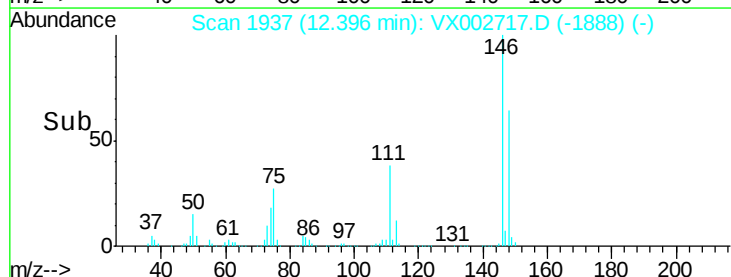
Abundance Ion 145.90 (145.60 to 146.60): V

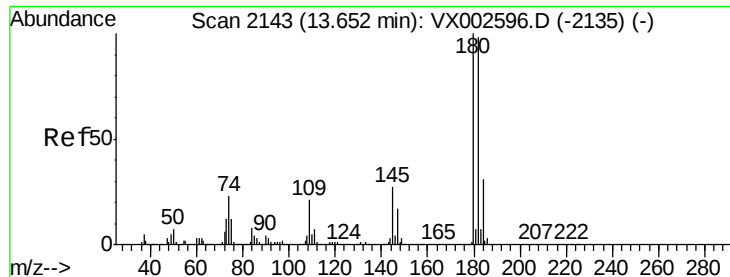
Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

12.40

Time-->

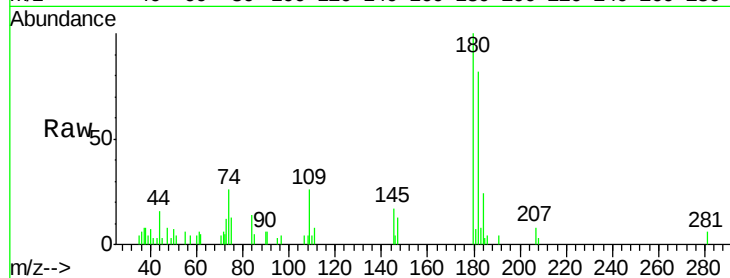




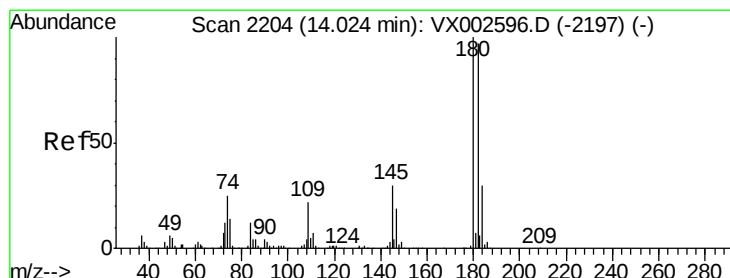
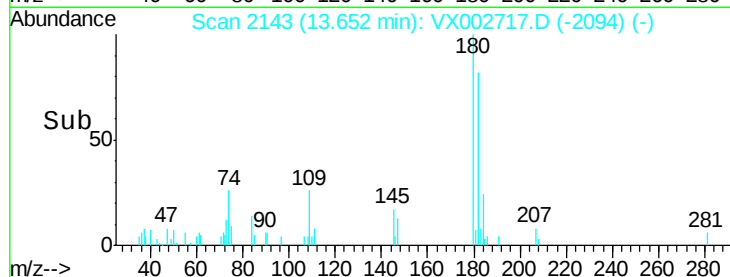
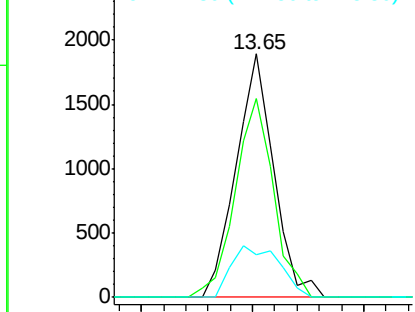
#93
 1,2,4-Trichlorobenzene
 Concen: 0.54 ug/l
 RT: 13.65 min Scan# 2143
 Delta R.T. 0.00 min
 Lab File: VX002717.D
 Acq: 19 Jun 2018 17:11

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion:180 Resp: 2234
 Ion Ratio Lower Upper
 180 100
 182 83.1 47.7 143.1
 145 26.5 14.1 42.4

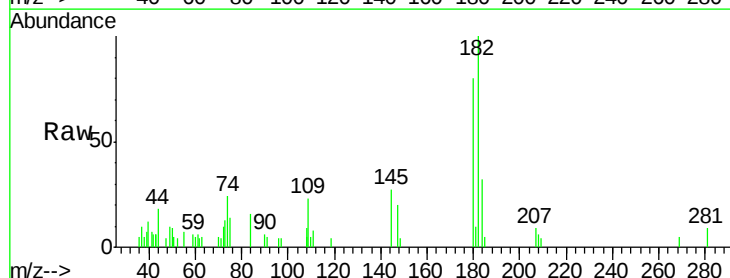


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#96
 1,2,3-Trichlorobenzene
 Concen: 0.37 ug/l
 RT: 14.02 min Scan# 2204
 Delta R.T. 0.00 min
 Lab File: VX002717.D
 Acq: 19 Jun 2018 17:11

Tgt Ion:180 Resp: 1555
 Ion Ratio Lower Upper
 180 100
 182 96.7 48.0 144.0
 145 31.3 14.8 44.3



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

