

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060319\
 Data File : VX010035.D
 Acq On : 03 Jun 2019 14:51
 Operator : JC/SP
 Sample : K3131-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 04 03:40:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052819W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 29 04:00:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	179150	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	280811	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	257303	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	116288	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	116717	46.12	ug/l	0.00
Spiked Amount			Recovery	=	92.24%	
35) Dibromofluoromethane	5.50	113	86674	49.09	ug/l	0.00
Spiked Amount			Recovery	=	98.18%	
50) Toluene-d8	8.71	98	359840	50.19	ug/l	0.00
Spiked Amount			Recovery	=	100.38%	
62) 4-Bromofluorobenzene	11.13	95	125056	48.56	ug/l	0.00
Spiked Amount			Recovery	=	97.12%	

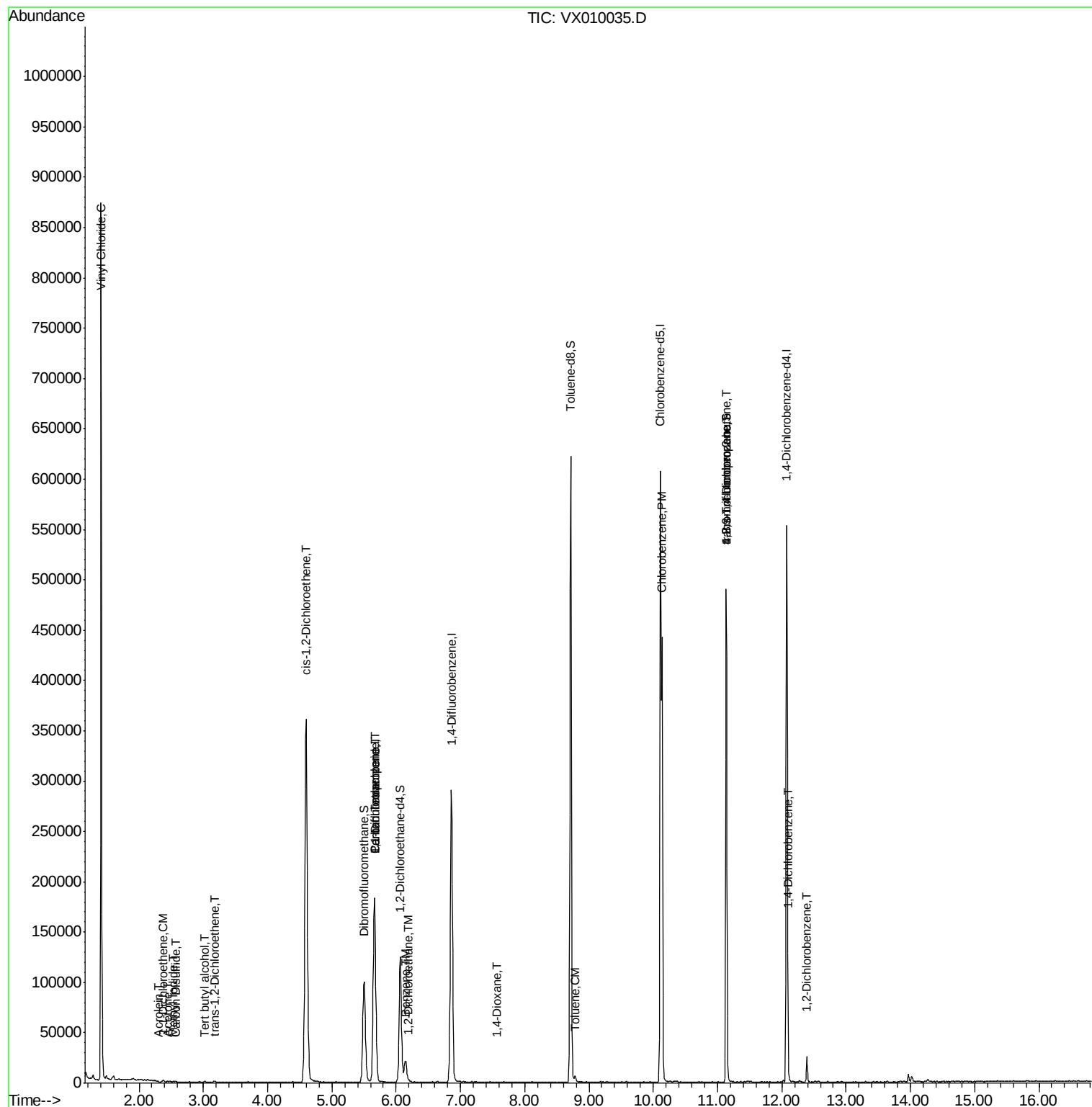
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	588278	221.734	ug/l	100
10) Methyl Iodide	2.52	142	302	4.782	ug/l #	71
11) Tert butyl alcohol	3.02	59	243	0.390	ug/l #	94
12) 1,1-Dichloroethene	2.37	96	714	0.394	ug/l #	85
13) Acrolein	2.29	56	72	21.246	ug/l #	59
16) Acetone	2.45	43	1098	0.751	ug/l #	86
17) Carbon Disulfide	2.57	76	886	0.545	ug/l #	76
21) trans-1,2-Dichloroethene	3.18	96	428	0.212	ug/l	89
27) cis-1,2-Dichloroethene	4.60	96	221159	94.907	ug/l	87
36) 1,1-Dichloropropene	5.66	75	13638	4.787	ug/l #	50
38) Carbon Tetrachloride	5.67	117	16676	6.773	ug/l #	16
40) Benzene	6.15	78	24850	2.940	ug/l	94
42) 1,2-Dichloroethane	6.20	62	916	0.293	ug/l	85
49) 1,4-Dioxane	7.57	88	20	0.339	ug/l #	1
52) Toluene	8.78	92	1548	0.302	ug/l	100
65) Chlorobenzene	10.13	112	176424	32.752	ug/l	100
76) 1,2,3-Trichloropropane	11.13	75	63161	22.713	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	63161	56.196	ug/l #	10
88) 1,4-Dichlorobenzene	12.10	146	7859	1.980	ug/l	87
91) 1,2-Dichlorobenzene	12.39	146	6950	1.811	ug/l	98

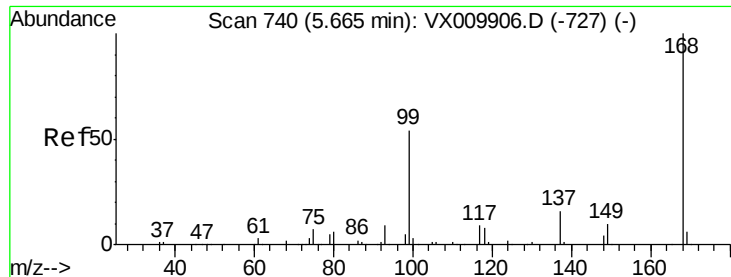
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed May 29 04:00:56 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010035.D

Acq: 03 Jun 2019 14:51

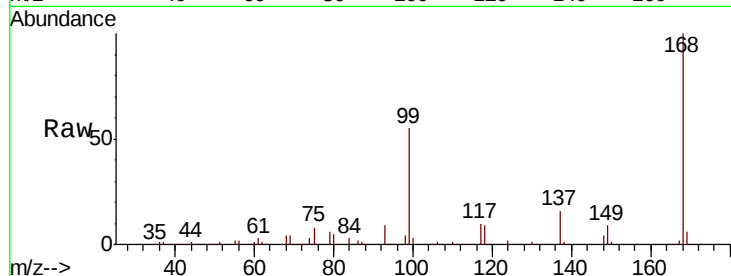
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 179150

Ion Ratio Lower Upper

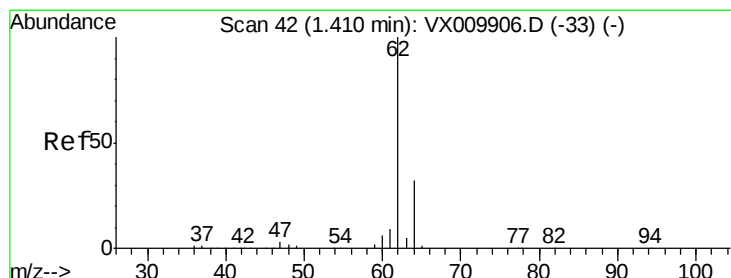
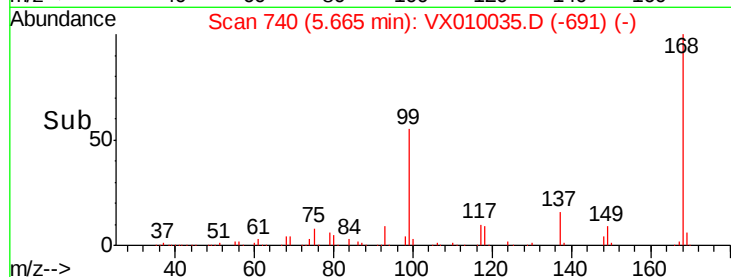
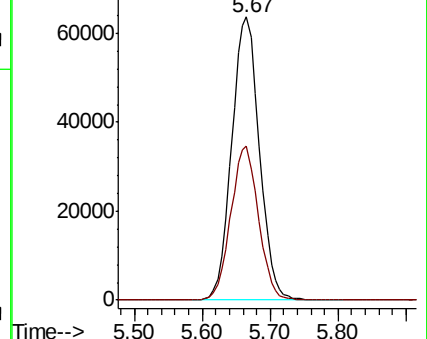
168 100

99 54.6 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 221.734 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX010035.D

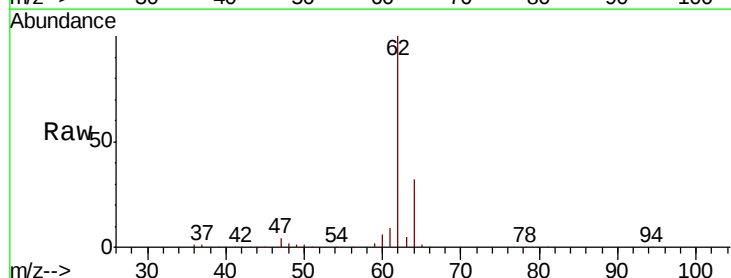
Acq: 03 Jun 2019 14:51

Tgt Ion: 62 Resp: 588278

Ion Ratio Lower Upper

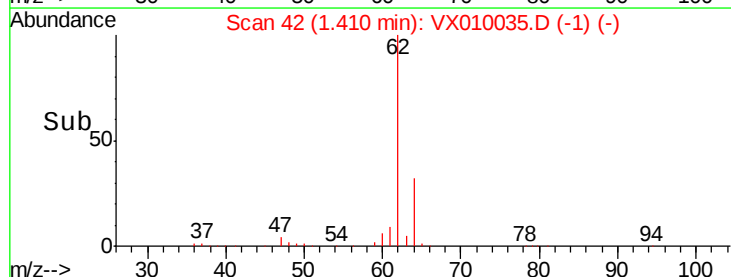
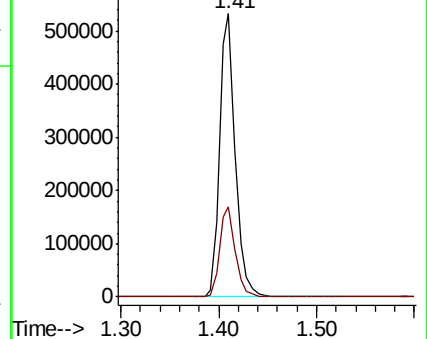
62 100

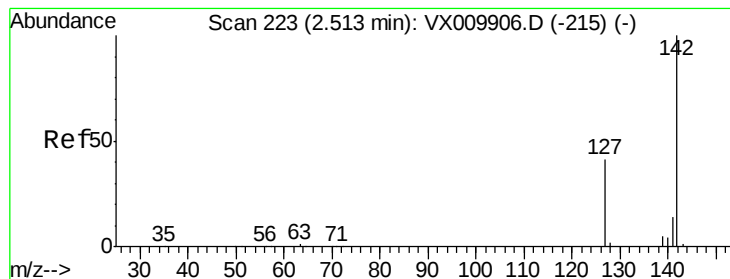
64 32.0 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#10

Methyl Iodide

Concen: 4.782 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX010035.D

Acq: 03 Jun 2019 14:51

Instrument :

MSVOA_X

ClientSampleId :

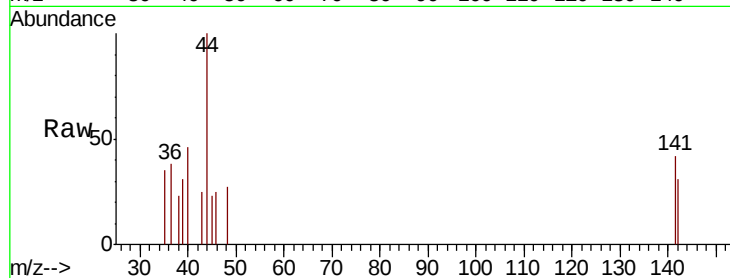
Tot Ion:142 Resp: 302

Ion Ratio Lower Upper

142 100

127 24.5 33.0 49.4#

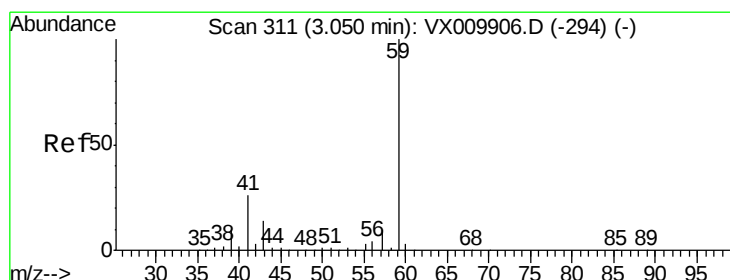
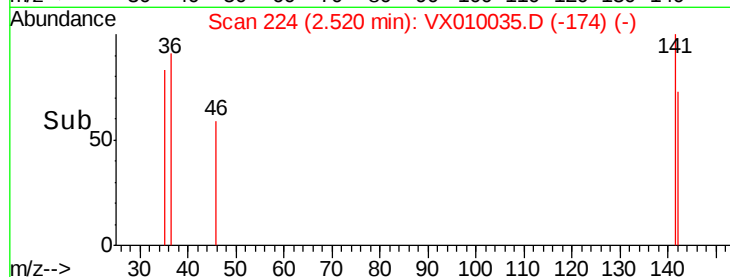
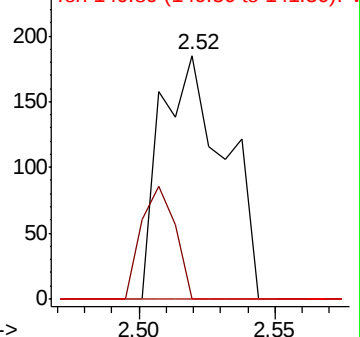
141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 0.390 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.03 min

Lab File: VX010035.D

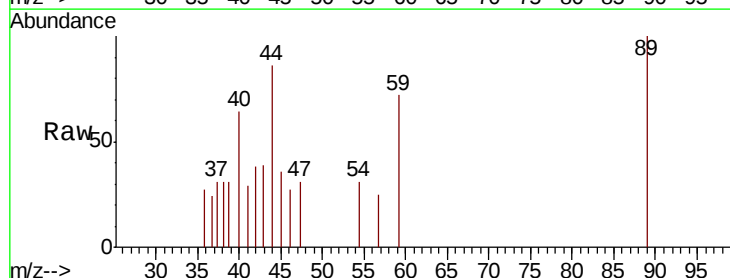
Acq: 03 Jun 2019 14:51

Tgt Ion: 59 Resp: 243

Ion Ratio Lower Upper

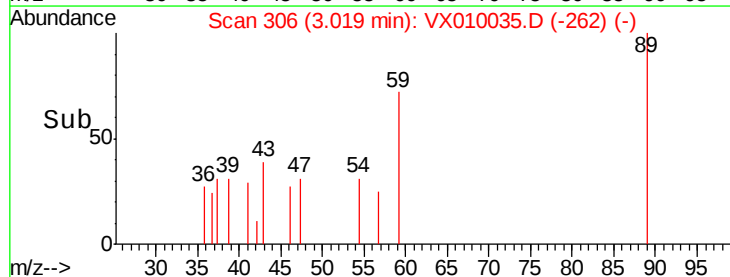
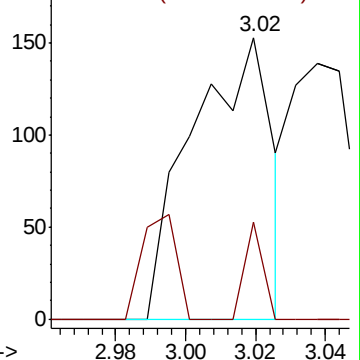
59 100

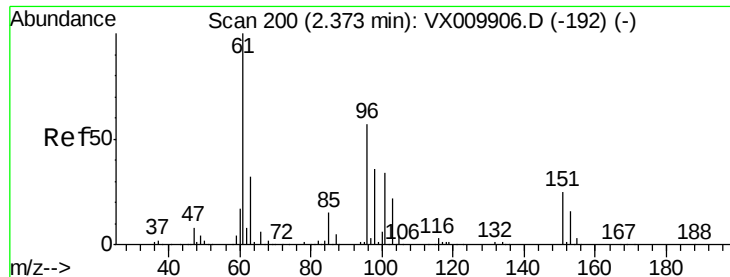
57 7.8 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.394 ug/l

RT: 2.37 min Scan# 200

Delta R.T. 0.00 min

Lab File: VX010035.D

Acq: 03 Jun 2019 14:51

Instrument :

MSVOA_X

ClientSampled :

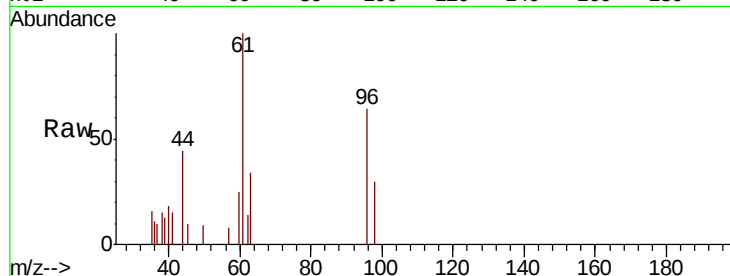
Tot Ion: 96 Resp: 714

Ion Ratio Lower Upper

96 100

61 156.7 140.7 211.1

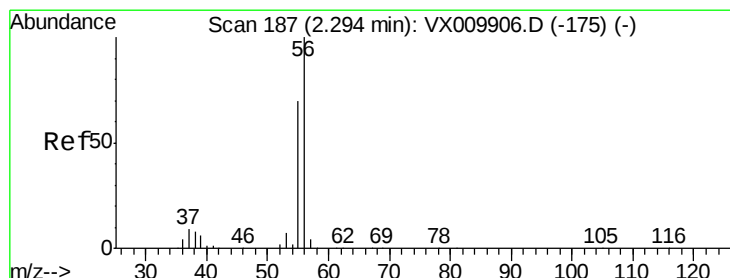
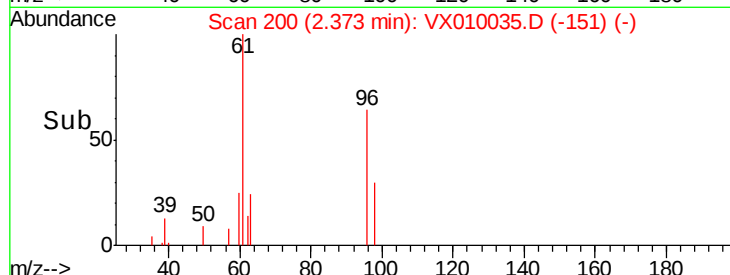
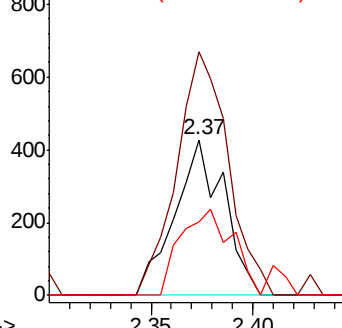
98 47.5 50.1 75.1#



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: 21.246 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX010035.D

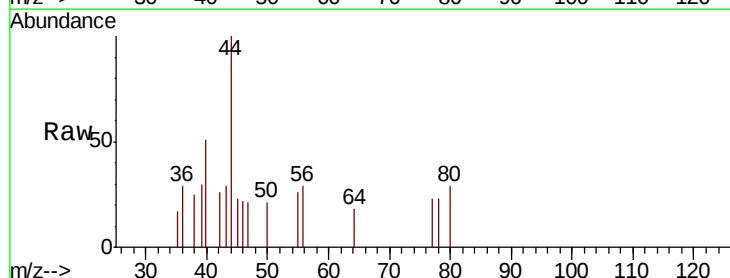
Acq: 03 Jun 2019 14:51

Tgt Ion: 56 Resp: 72

Ion Ratio Lower Upper

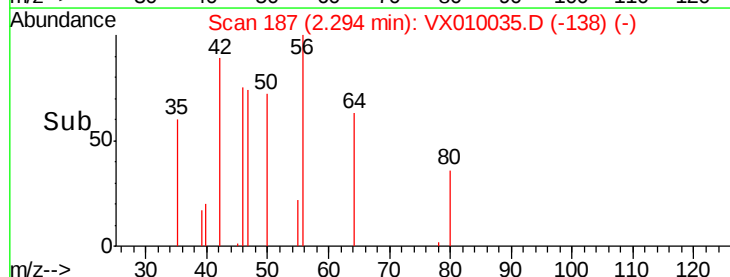
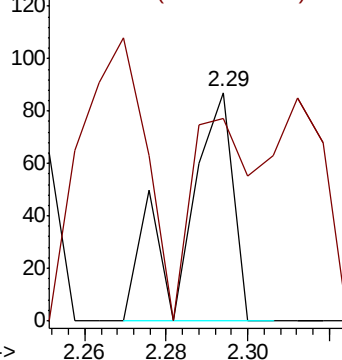
56 100

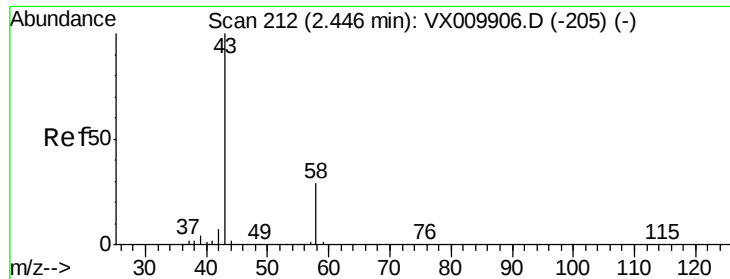
55 105.6 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 0.751 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010035.D

Acq: 03 Jun 2019 14:51

Instrument :

MSVOA_X

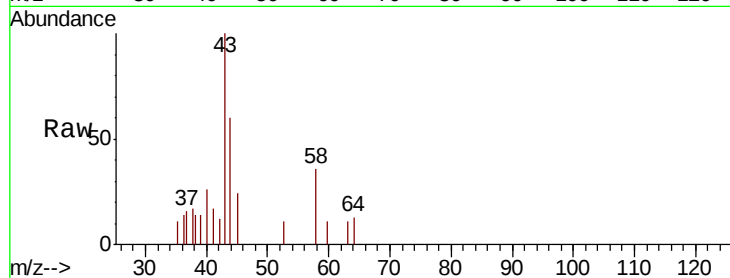
ClientSampleId :

Tot Ion: 43 Resp: 1098

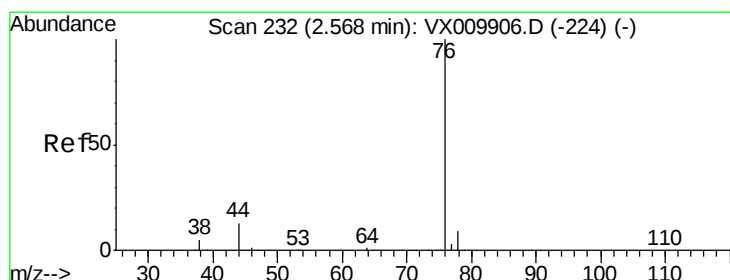
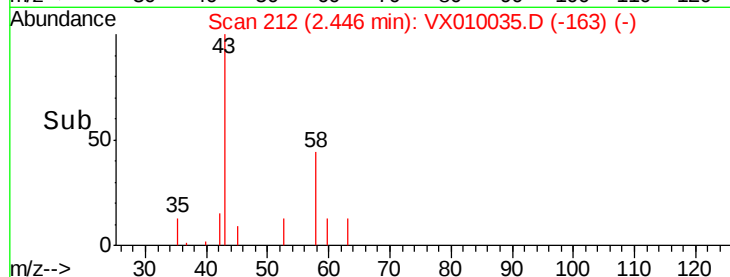
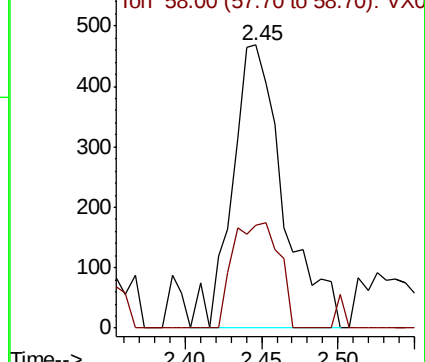
Ion Ratio Lower Upper

43 100

58 36.3 23.2 34.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0



#17

Carbon Disulfide

Concen: 0.545 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX010035.D

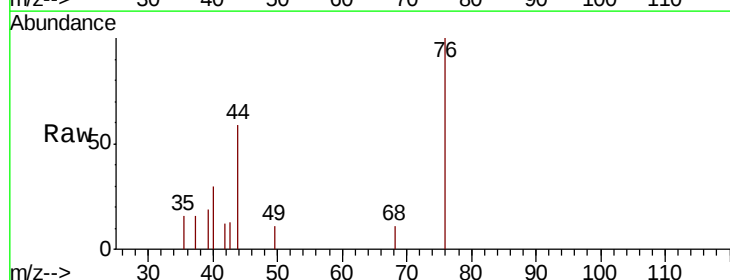
Acq: 03 Jun 2019 14:51

Tgt Ion: 76 Resp: 886

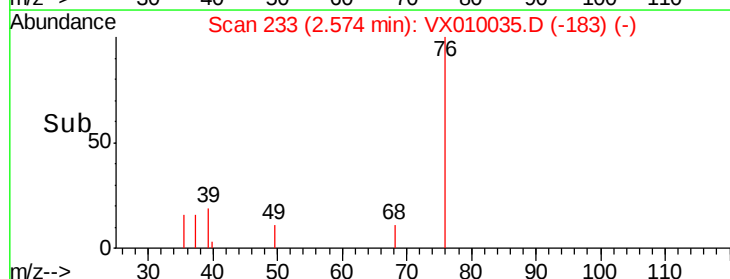
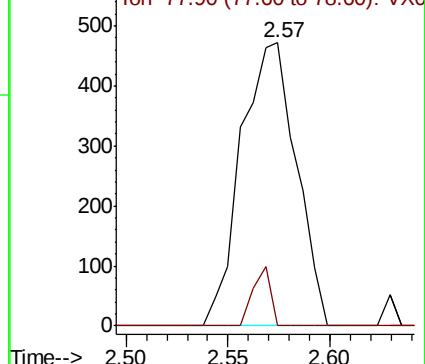
Ion Ratio Lower Upper

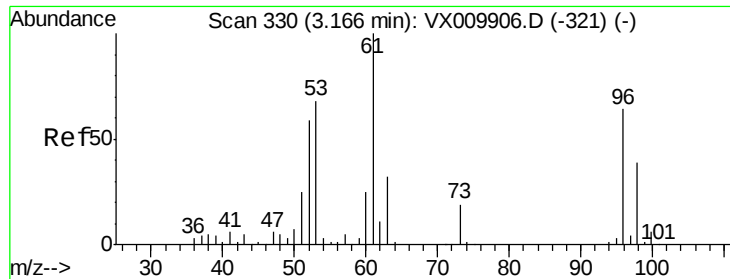
76 100

78 0.0 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0





#21

trans-1,2-Dichloroethene

Concen: 0.212 ug/l

RT: 3.18 min Scan# 332

Delta R.T. 0.01 min

Lab File: VX010035.D

Acq: 03 Jun 2019 14:51

Instrument :
MSVOA_X
ClientSampled :

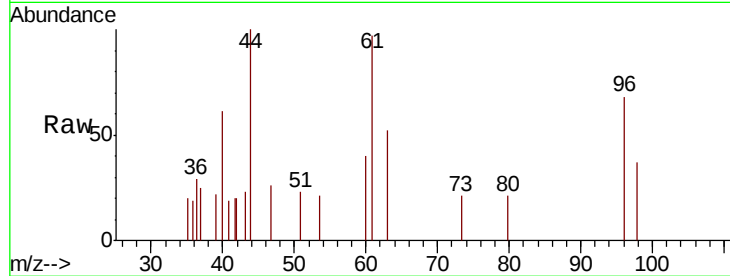
Tot Ion: 96 Resp: 428

Ion Ratio Lower Upper

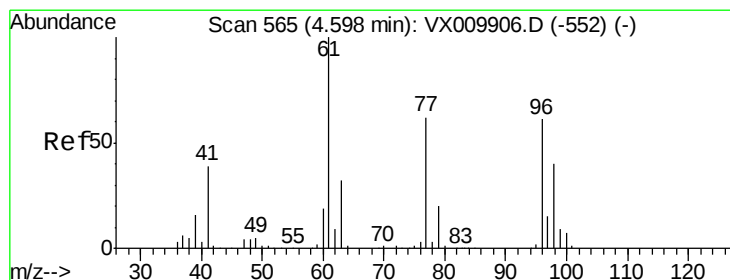
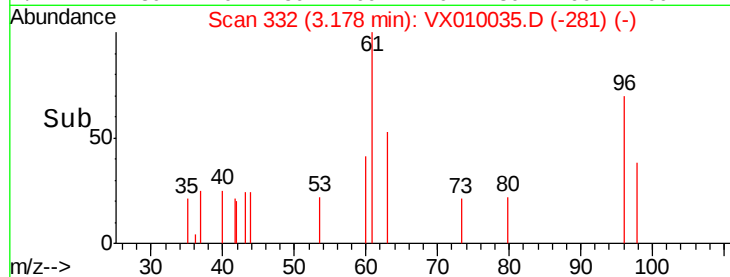
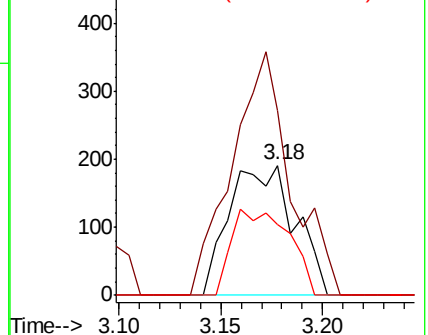
96 100

61 142.4 125.7 188.5

98 54.5 49.0 73.6



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 94.907 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.00 min

Lab File: VX010035.D

Acq: 03 Jun 2019 14:51

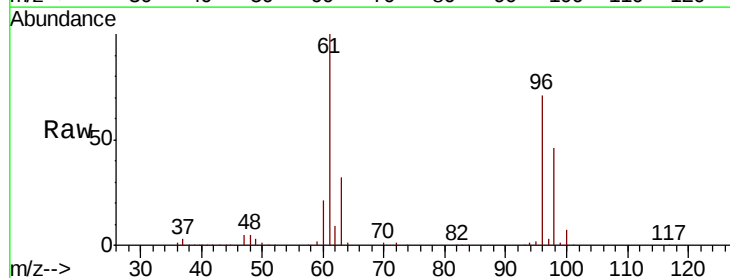
Tgt Ion: 96 Resp: 221159

Ion Ratio Lower Upper

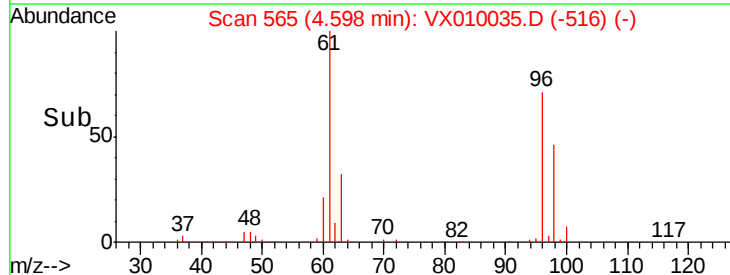
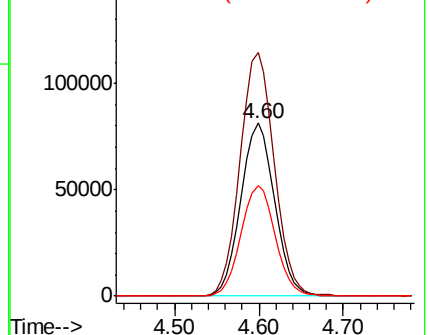
96 100

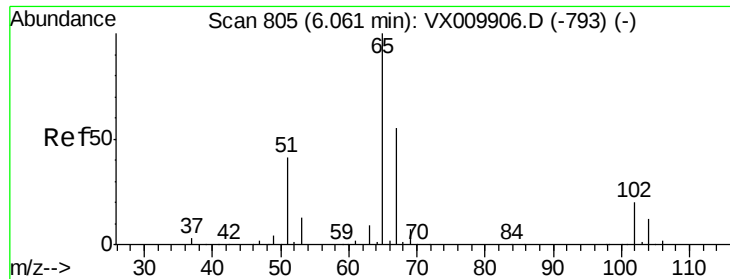
61 142.5 0.0 334.0

98 64.7 0.0 131.6



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0

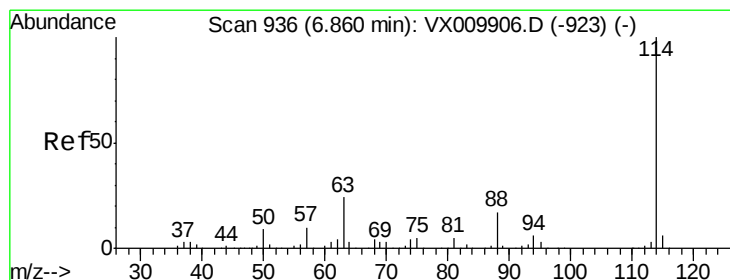
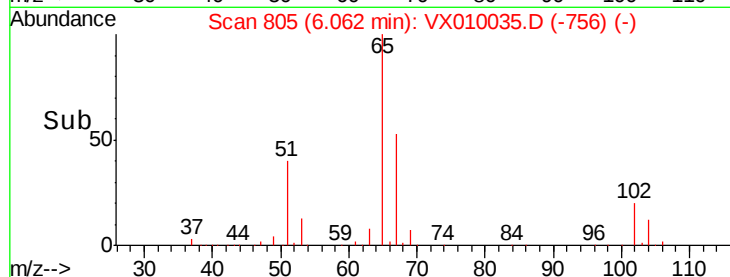
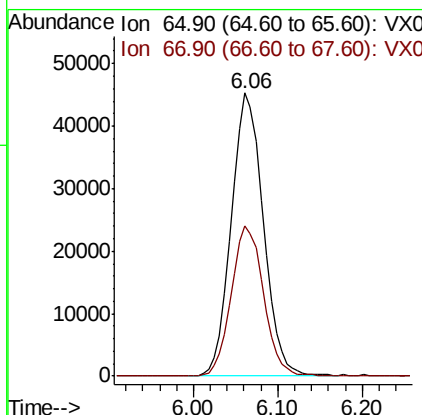
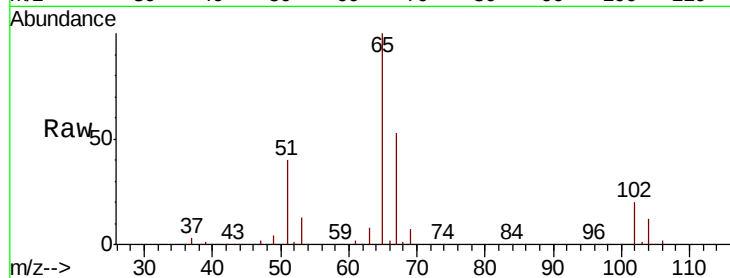




#33
 1,2-Dichloroethane-d4
 Concen: 46.121 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX010035.D
 Acq: 03 Jun 2019 14:51

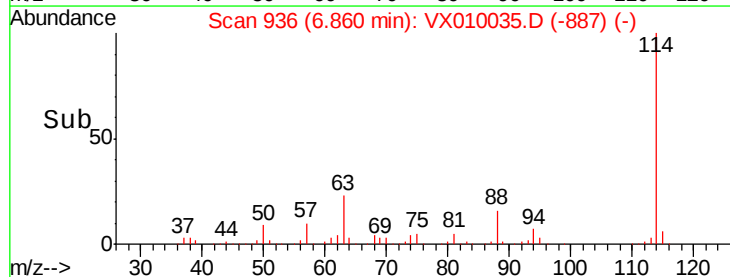
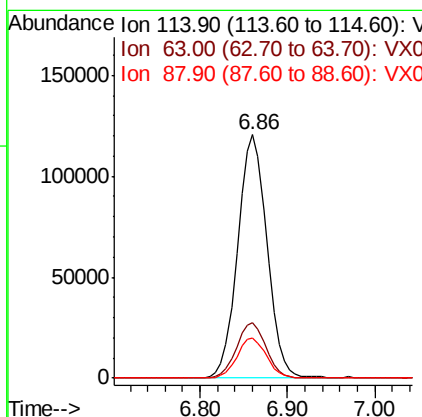
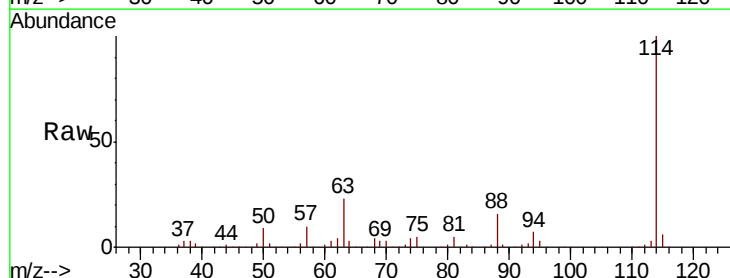
Instrument :
 MSVOA_X
 ClientSampled :

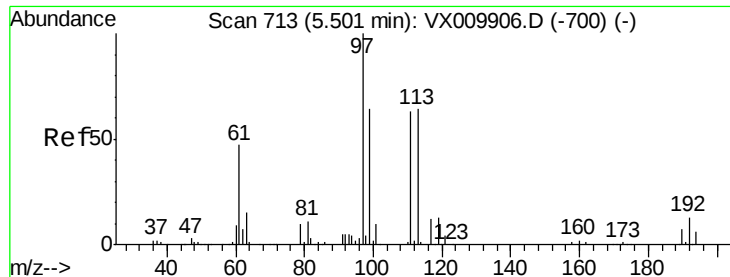
Tot Ion: 65 Resp: 116717
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX010035.D
 Acq: 03 Jun 2019 14:51

Tgt Ion:114 Resp: 280811
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 47.4
 88 16.2 0.0 33.0





#35

Dibromofluoromethane

Concen: 49.094 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010035.D

Acq: 03 Jun 2019 14:51

Instrument :

MSVOA_X

ClientSampleId :

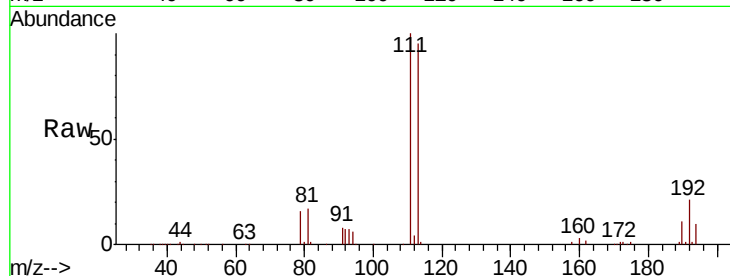
Tot Ion:113 Resp: 86674

Ion Ratio Lower Upper

113 100

111 102.5 82.2 123.2

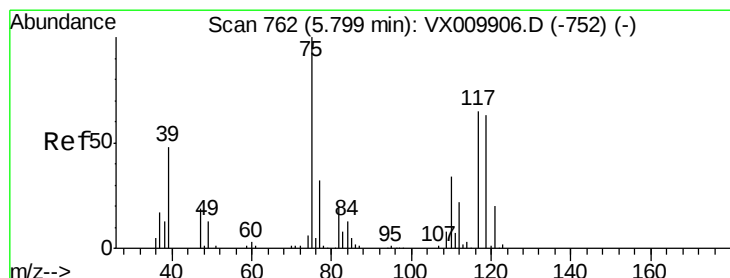
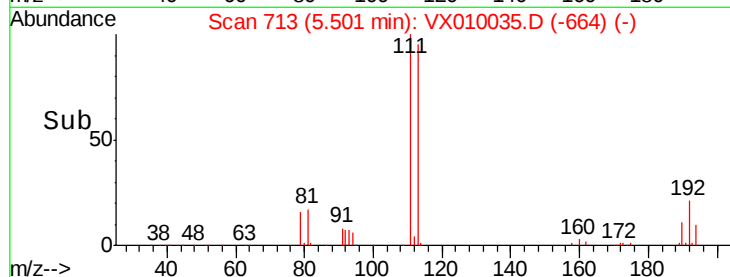
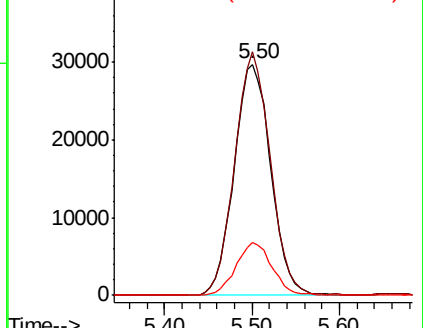
192 22.2 17.1 25.7



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: 4.787 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010035.D

Acq: 03 Jun 2019 14:51

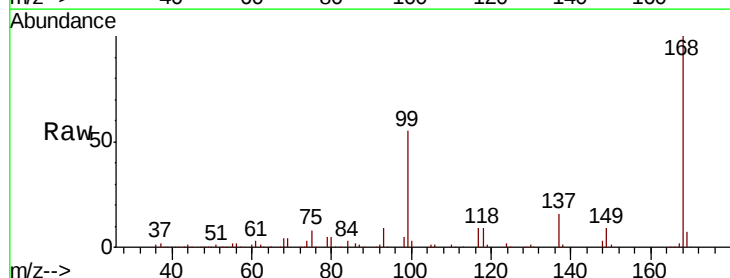
Tgt Ion: 75 Resp: 13638

Ion Ratio Lower Upper

75 100

110 8.9 16.7 50.1#

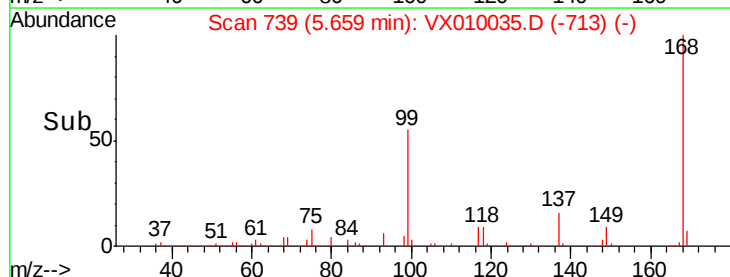
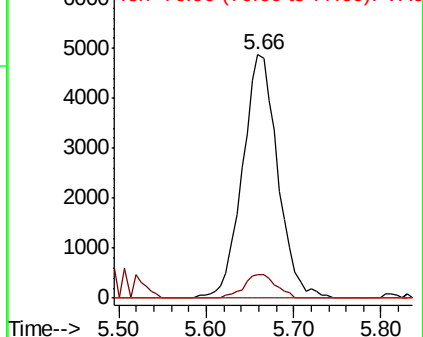
77 0.0 25.0 37.4#

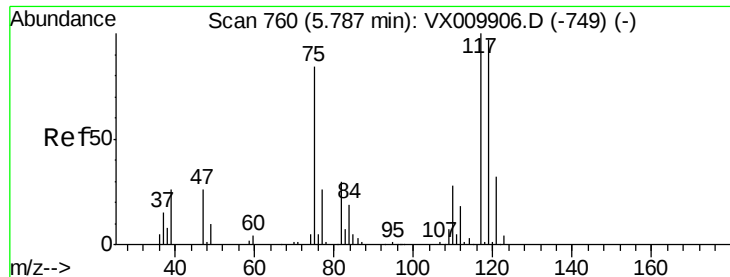


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.773 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX010035.D

Acq: 03 Jun 2019 14:51

Instrument :

MSVOA_X

ClientSampleId :

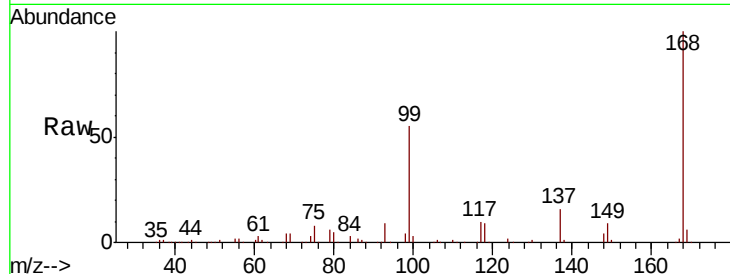
Tot Ion:117 Resp: 16676

Ion Ratio Lower Upper

117 100

119 5.2 77.3 115.9#

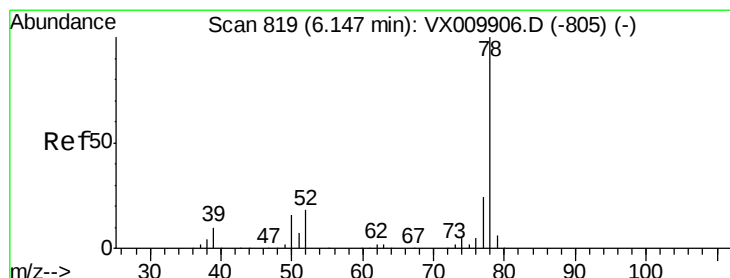
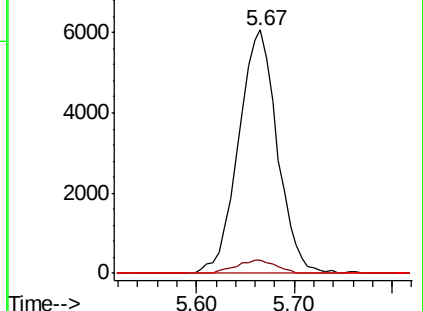
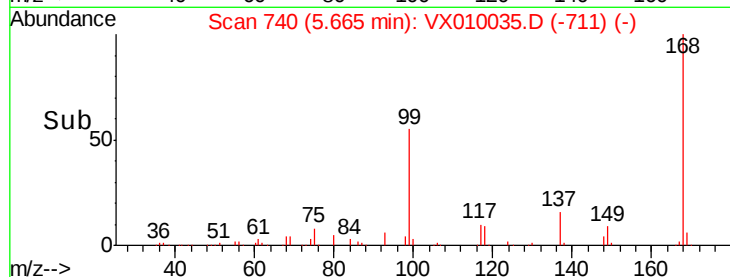
121 0.0 25.4 38.0#



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: 2.940 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.00 min

Lab File: VX010035.D

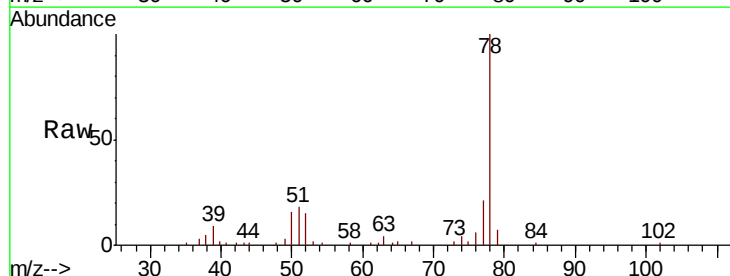
Acq: 03 Jun 2019 14:51

Tgt Ion: 78 Resp: 24850

Ion Ratio Lower Upper

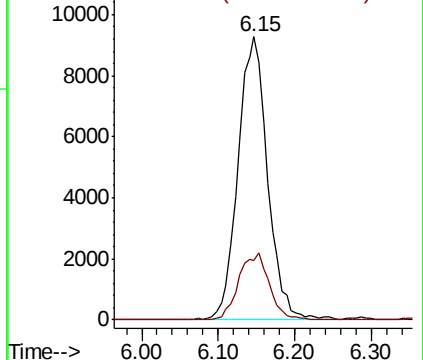
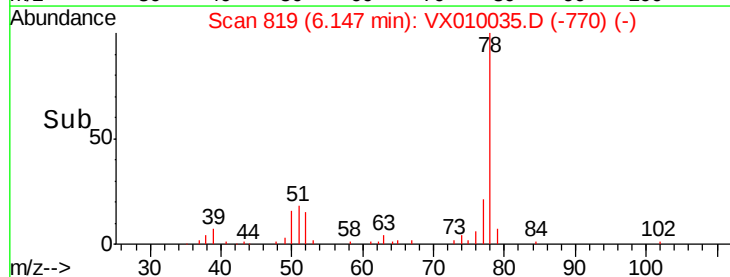
78 100

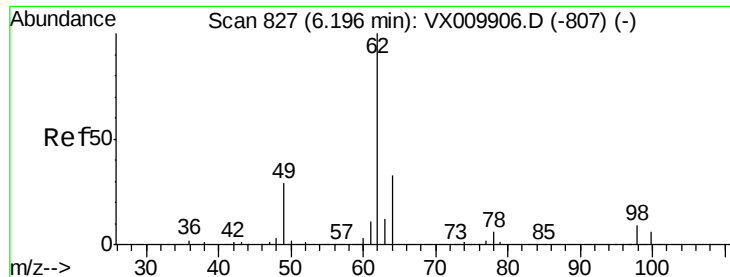
77 21.0 19.2 28.8



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#42

1,2-Dichloroethane

Concen: 0.293 ug/l

RT: 6.20 min Scan# 827

Delta R.T. 0.00 min

Lab File: VX010035.D

Acq: 03 Jun 2019 14:51

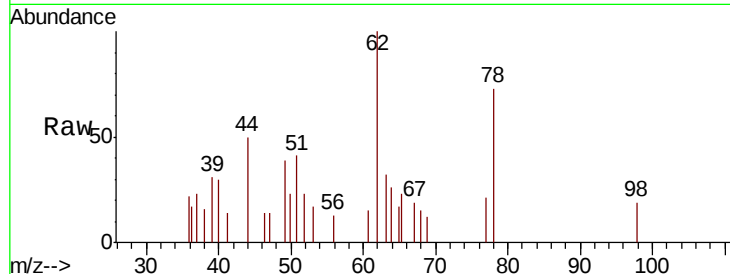
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 62 Resp: 916

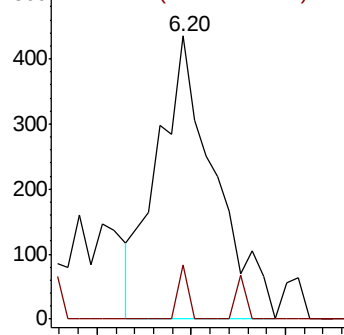
Ion Ratio Lower Upper

62 100

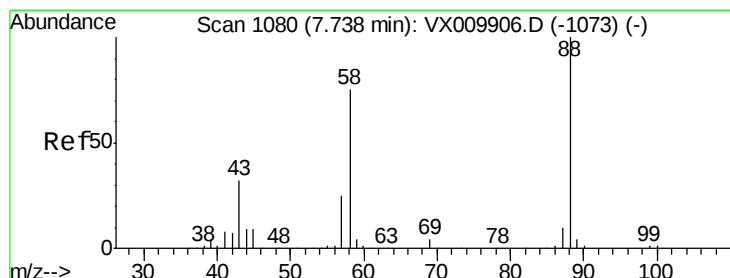
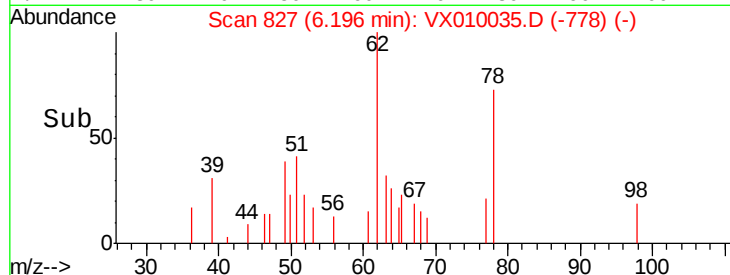
98 3.4 0.0 17.2



Abundance Ion 61.90 (61.60 to 62.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



Time-->



#49

1,4-Dioxane

Concen: 0.339 ug/l

RT: 7.57 min Scan# 1052

Delta R.T. -0.17 min

Lab File: VX010035.D

Acq: 03 Jun 2019 14:51

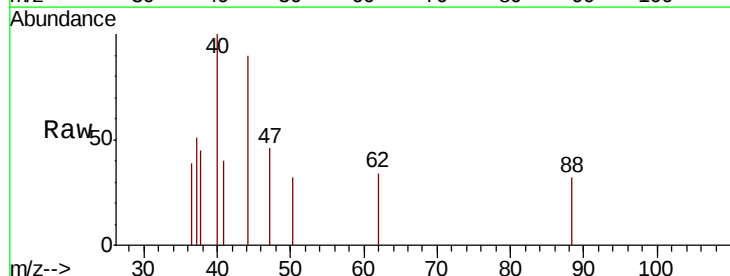
Tgt Ion: 88 Resp: 20

Ion Ratio Lower Upper

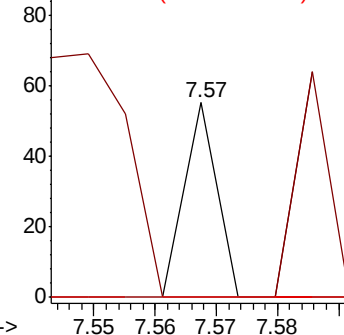
88 100

43 115.0 30.2 45.4#

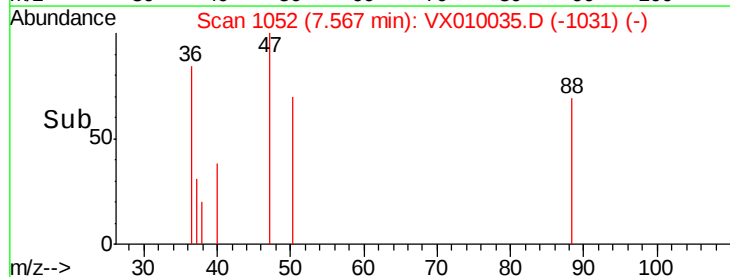
58 0.0 64.0 96.0#

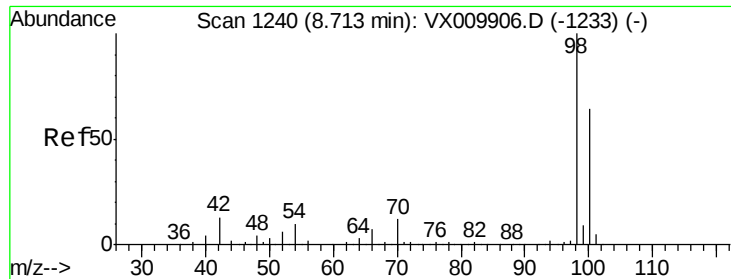


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0



Time-->

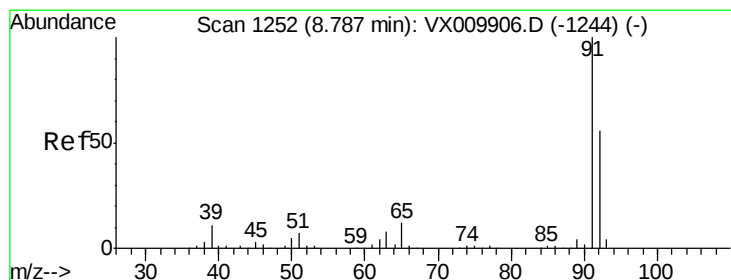
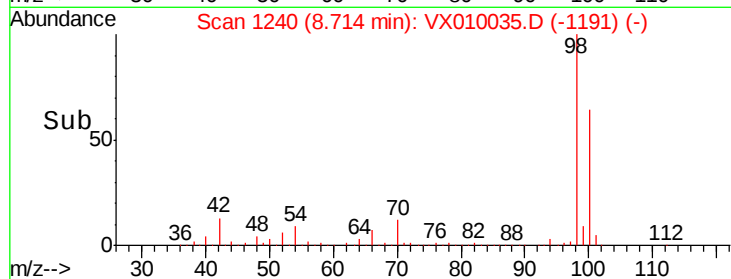
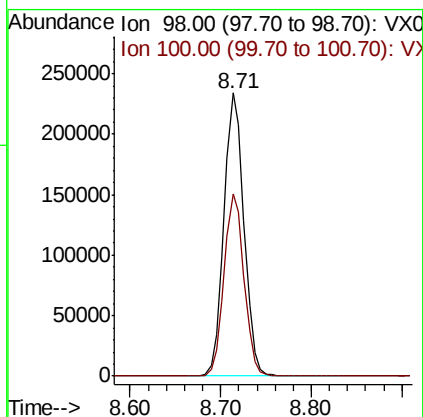
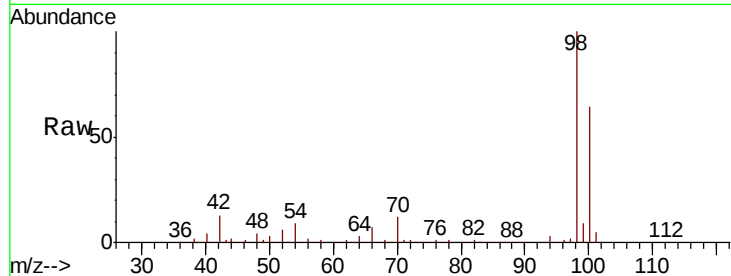




#50
Toluene-d8
Concen: 50.193 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010035.D
Acq: 03 Jun 2019 14:51

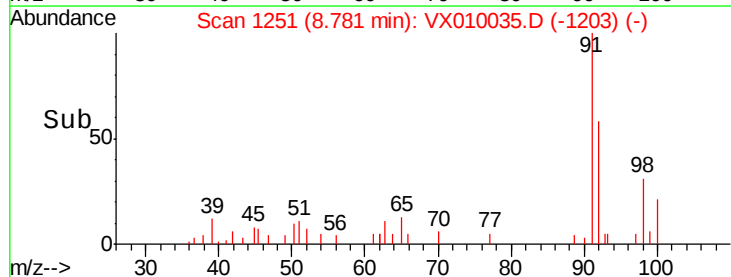
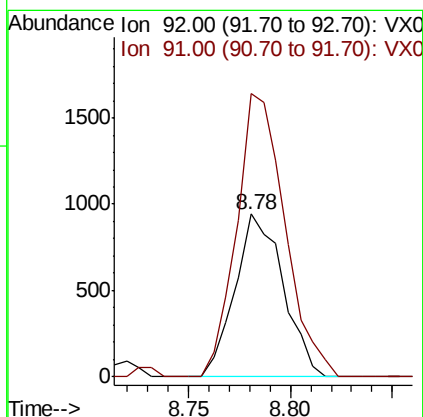
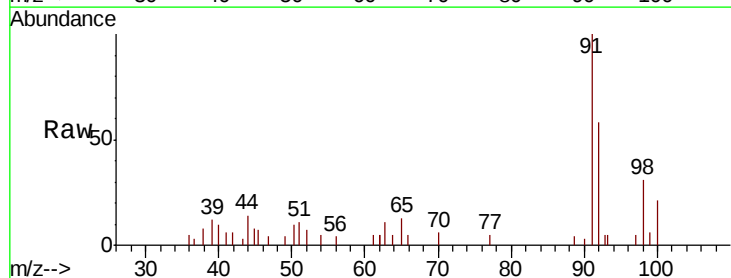
Instrument :
MSVOA_X
ClientSampleId :

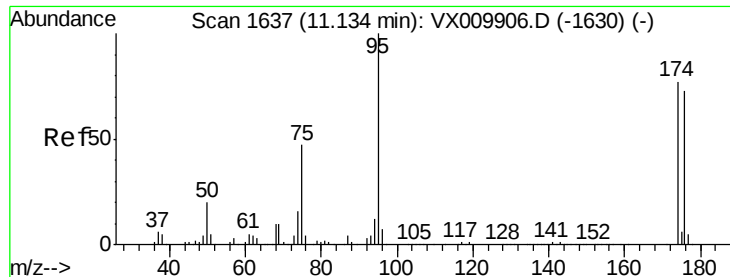
Tot Ion: 98 Resp: 359840
Ion Ratio Lower Upper
98 100
100 64.3 51.5 77.3



#52
Toluene
Concen: 0.302 ug/l
RT: 8.78 min Scan# 1251
Delta R.T. -0.01 min
Lab File: VX010035.D
Acq: 03 Jun 2019 14:51

Tgt Ion: 92 Resp: 1548
Ion Ratio Lower Upper
92 100
91 174.9 139.9 209.9





#62

4-Bromofluorobenzene

Concen: 48.565 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010035.D

Acq: 03 Jun 2019 14:51

Instrument :

MSVOA_X

ClientSampleId :

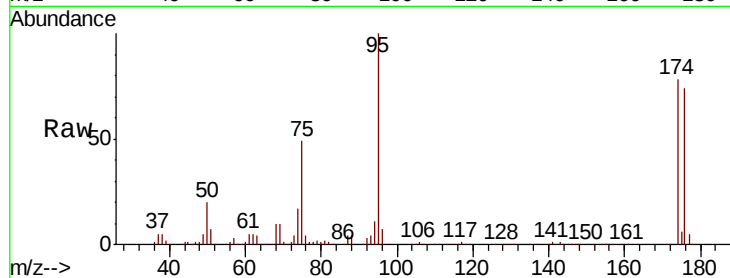
Tot Ion: 95 Resp: 125056

Ion Ratio Lower Upper

95 100

174 82.7 0.0 160.4

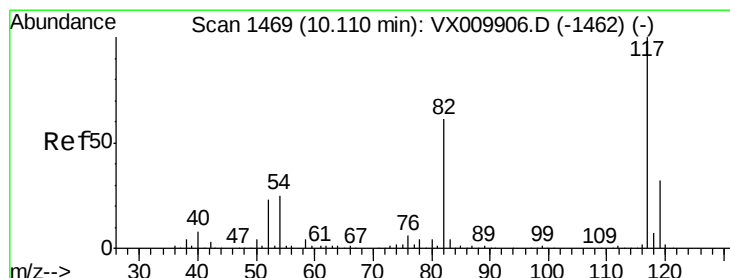
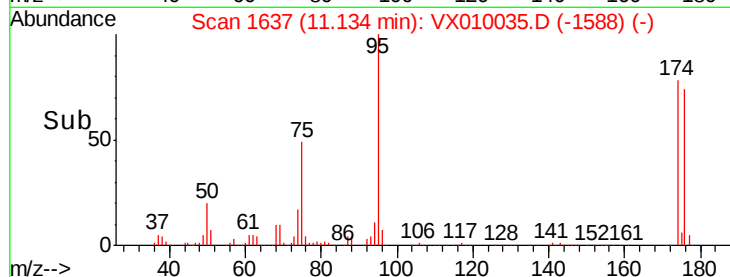
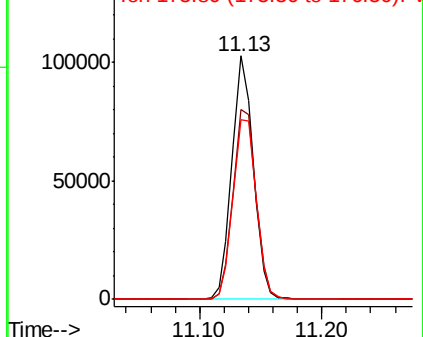
176 80.0 0.0 154.6



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: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX010035.D

Acq: 03 Jun 2019 14:51

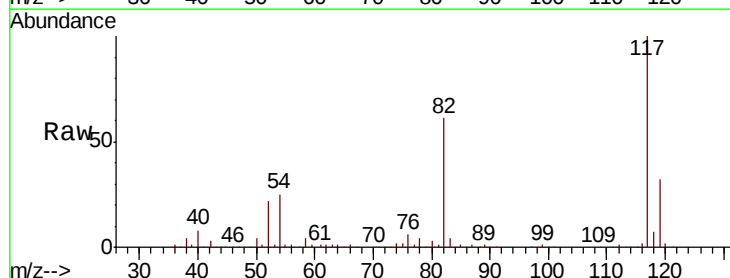
Tgt Ion: 117 Resp: 257303

Ion Ratio Lower Upper

117 100

82 60.6 49.2 73.8

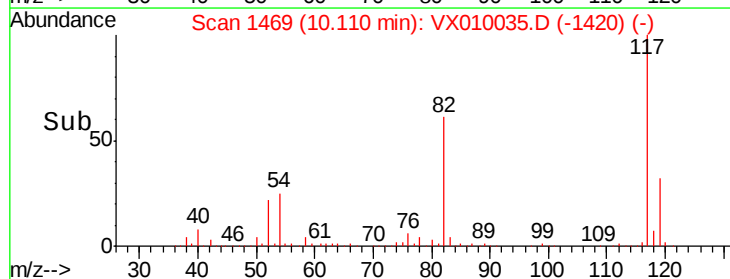
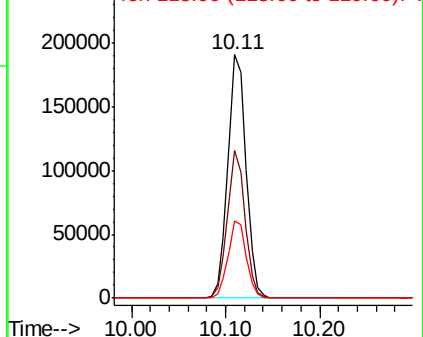
119 31.9 25.2 37.8

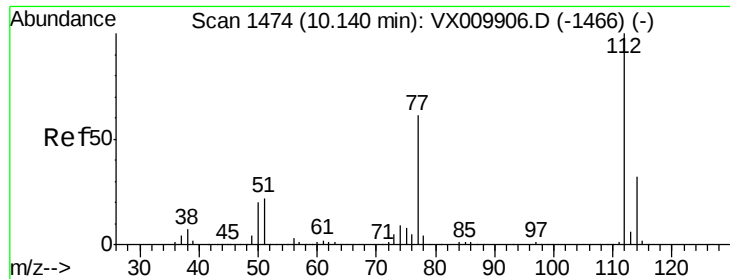


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

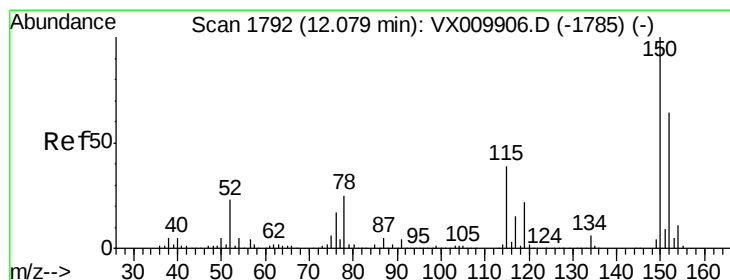
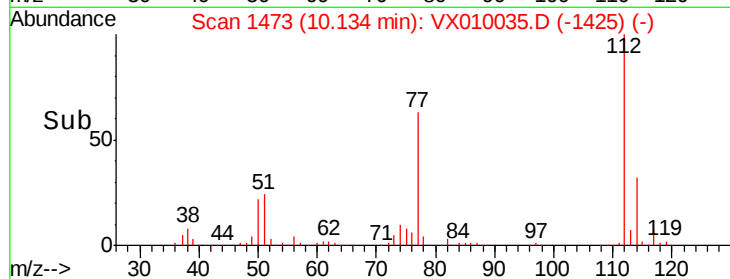
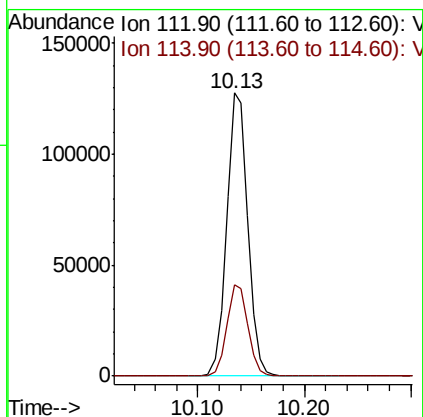
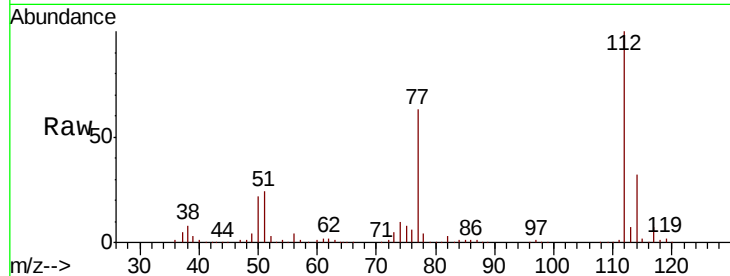




#65
Chlorobenzene
Concen: 32.752 ug/l
RT: 10.13 min Scan# 1473
Delta R.T. -0.01 min
Lab File: VX010035.D
Acq: 03 Jun 2019 14:51

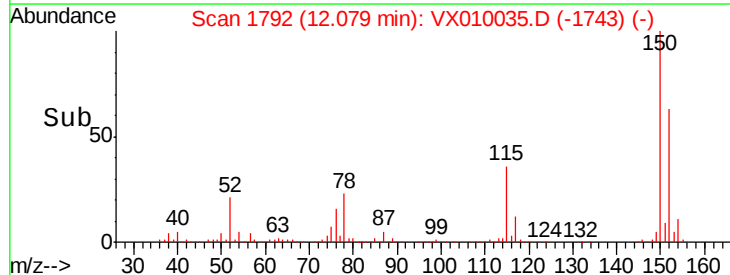
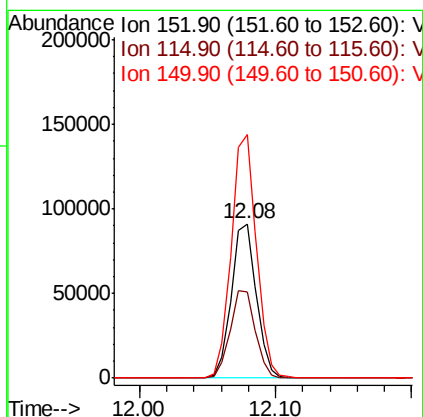
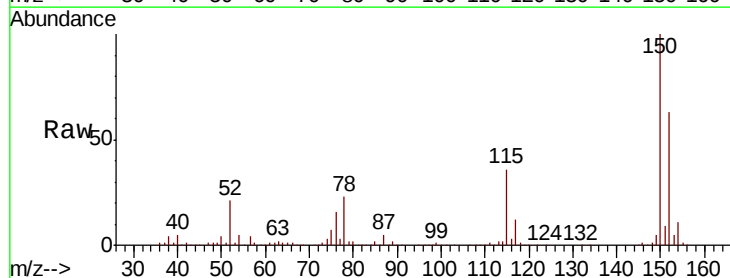
Instrument :
MSVOA_X
ClientSampled :

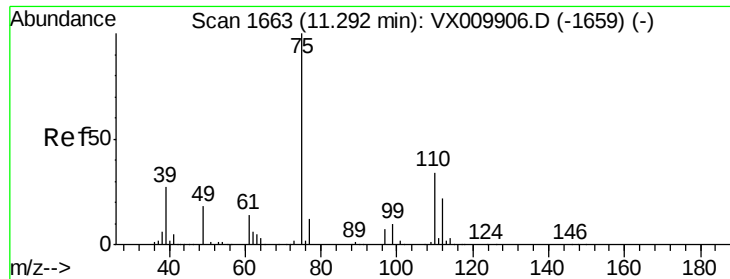
Tot Ion:112 Resp: 176424
Ion Ratio Lower Upper
112 100
114 32.4 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX010035.D
Acq: 03 Jun 2019 14:51

Tgt Ion:152 Resp: 116288
Ion Ratio Lower Upper
152 100
115 57.7 41.4 124.2
150 158.7 0.0 345.2





#76

1,2,3-Trichloropropane

Concen: 22.713 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010035.D

Acq: 03 Jun 2019 14:51

Instrument :

MSVOA_X

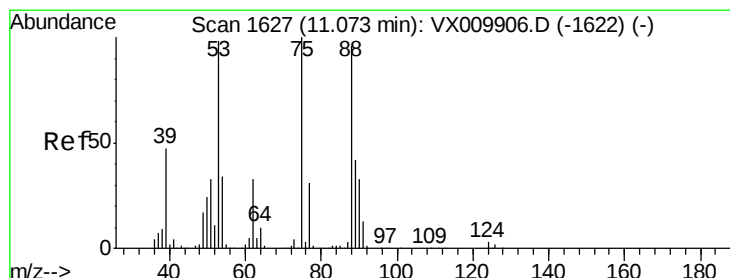
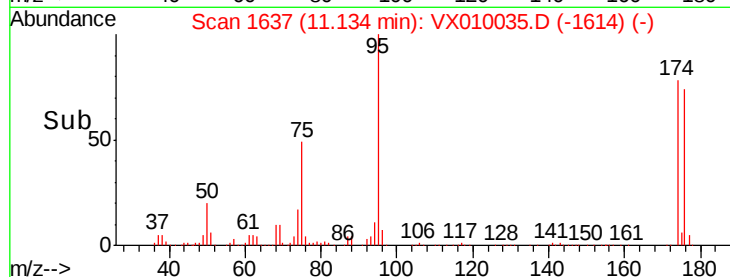
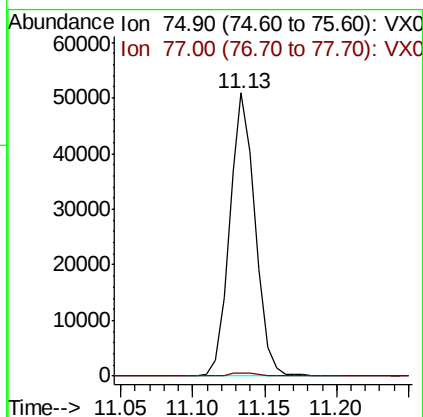
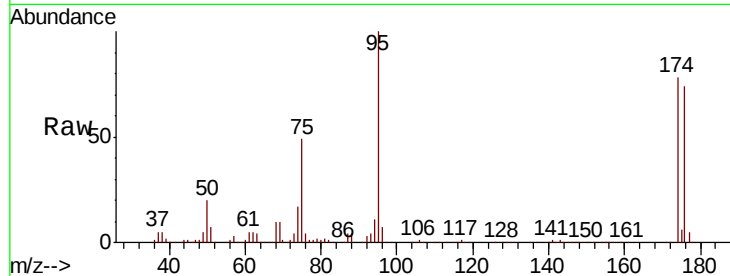
ClientSampled :

Tot Ion: 75 Resp: 63161

Ion Ratio Lower Upper

75 100

77 1.3 22.1 66.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 56.196 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010035.D

Acq: 03 Jun 2019 14:51

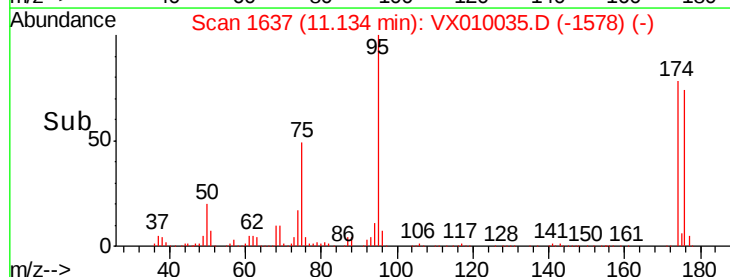
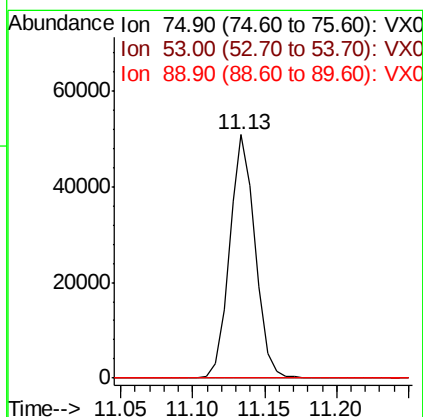
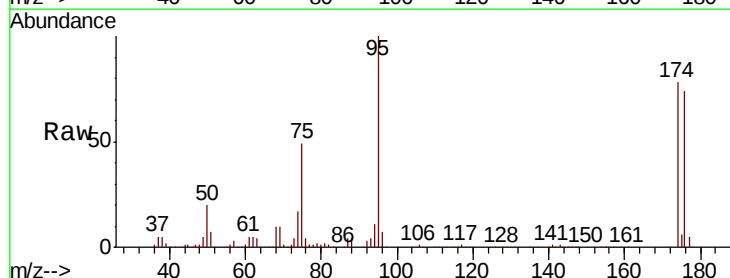
Tgt Ion: 75 Resp: 63161

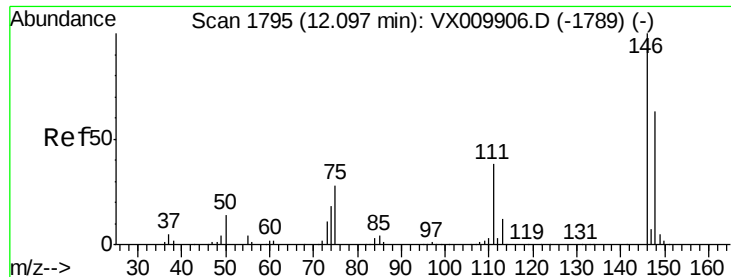
Ion Ratio Lower Upper

75 100

53 0.1 79.8 119.6#

89 0.1 34.2 51.4#





#88

1,4-Dichlorobenzene

Concen: 1.980 ug/l

RT: 12.10 min Scan# 1795

Delta R.T. 0.00 min

Lab File: VX010035.D

Acq: 03 Jun 2019 14:51

Instrument :

MSVOA_X

ClientSampleId :

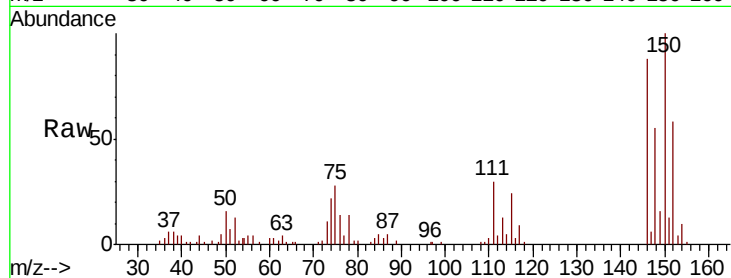
Tot Ion:146 Resp: 7859

Ion Ratio Lower Upper

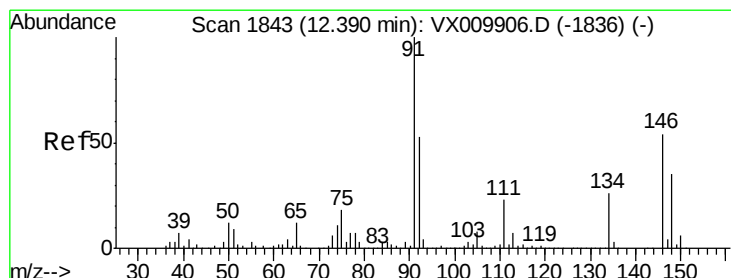
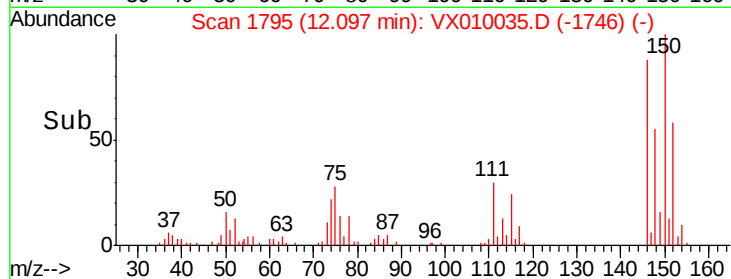
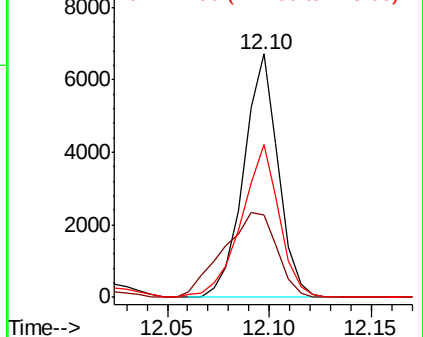
146 100

111 54.1 20.0 59.9

148 69.3 32.3 96.9



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



#91

1,2-Dichlorobenzene

Concen: 1.811 ug/l

RT: 12.39 min Scan# 1843

Delta R.T. 0.00 min

Lab File: VX010035.D

Acq: 03 Jun 2019 14:51

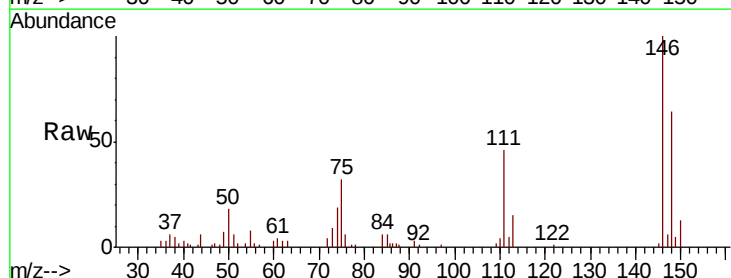
Tgt Ion:146 Resp: 6950

Ion Ratio Lower Upper

146 100

111 44.7 21.1 63.1

148 63.4 32.3 96.8



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

