

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061219\
 Data File : VX010255.D
 Acq On : 12 Jun 2019 16:58
 Operator : JC/SP
 Sample : K3309-16
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF012RW161-190611

Quant Time: Jun 13 01:28:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 02:12:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	291500	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	443417	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	385072	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	174744	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	130987	46.04	ug/l	0.00
Spiked Amount			Recovery	=	92.08%	
35) Dibromofluoromethane	5.50	113	136646	49.96	ug/l	0.00
Spiked Amount			Recovery	=	99.92%	
50) Toluene-d8	8.71	98	511496	49.90	ug/l	0.00
Spiked Amount			Recovery	=	99.80%	
62) 4-Bromofluorobenzene	11.13	95	165812	43.31	ug/l	0.00
Spiked Amount			Recovery	=	86.62%	

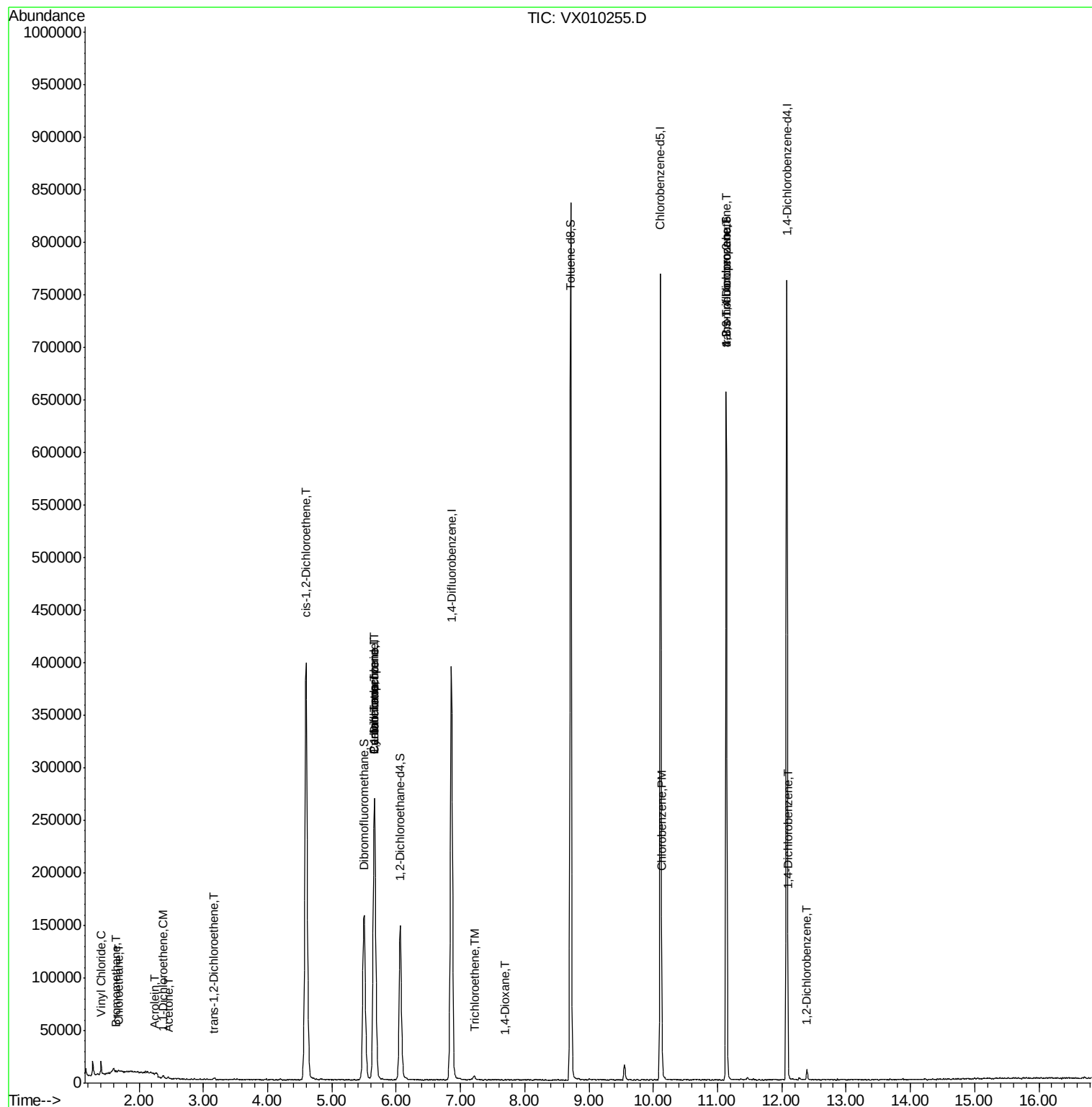
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	7802	3.116	ug/l	92
5) Bromomethane	1.65	94	308	0.326	ug/l #	29
6) Chloroethane	1.68	64	290	0.230	ug/l #	49
12) 1,1-Dichloroethene	2.37	96	824	0.315	ug/l #	91
13) Acrolein	2.24	56	260	2.046	ug/l	85
16) Acetone	2.45	43	1028	0.768	ug/l #	75
21) trans-1,2-Dichloroethene	3.17	96	756	0.261	ug/l #	61
27) cis-1,2-Dichloroethene	4.60	96	278752	86.476	ug/l	69
31) Cyclohexane	5.66	56	4796	1.158	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	17905	4.949	ug/l #	52
38) Carbon Tetrachloride	5.66	117	24498	5.983	ug/l #	16
44) Trichloroethene	7.22	130	1257	0.373	ug/l	74
49) 1,4-Dioxane	7.69	88	19	0.226	ug/l #	1
65) Chlorobenzene	10.13	112	8173	1.028	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	77138	22.070	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	77138	48.761	ug/l #	10
88) 1,4-Dichlorobenzene	12.10	146	1558	0.262	ug/l #	1
91) 1,2-Dichlorobenzene	12.39	146	3245	0.565	ug/l	97

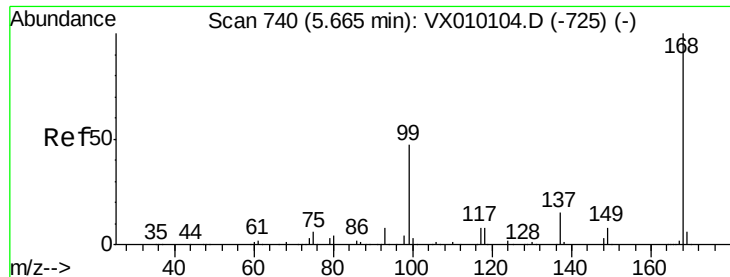
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX010255.D

Acq: 12 Jun 2019 16:58

Instrument :

MSVOA_X

ClientSampleId :

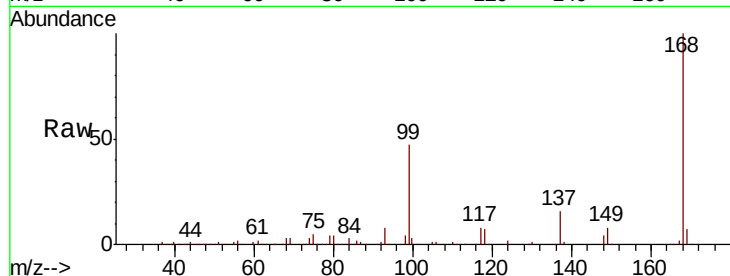
LF012RW161-190611

Tot Ion:168 Resp: 291500

Ion Ratio Lower Upper

168 100

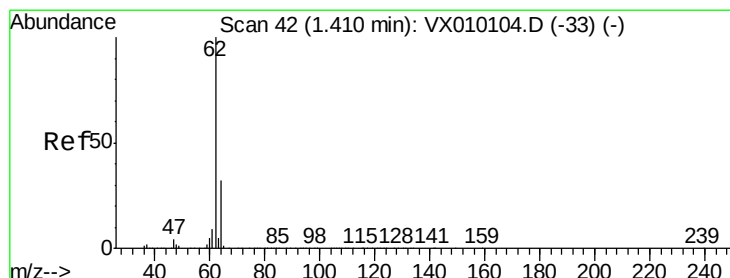
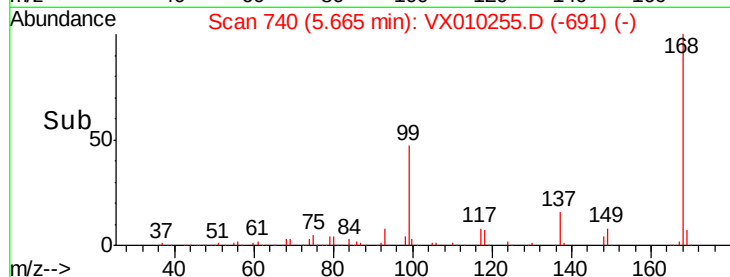
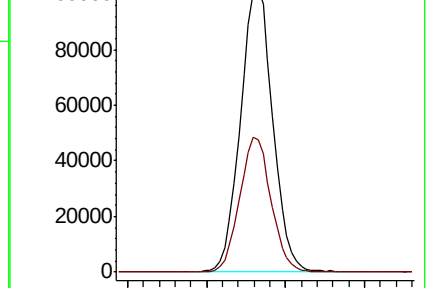
99 46.5 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67



#4

Vinyl Chloride

Concen: 3.116 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX010255.D

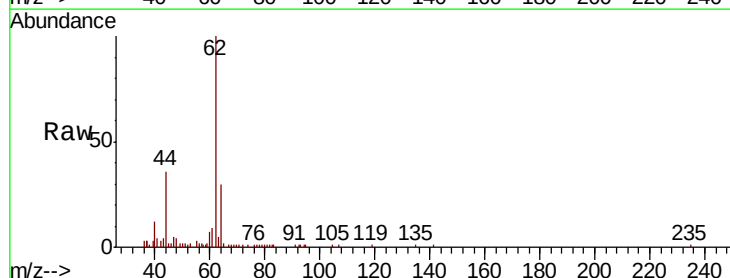
Acq: 12 Jun 2019 16:58

Tgt Ion: 62 Resp: 7802

Ion Ratio Lower Upper

62 100

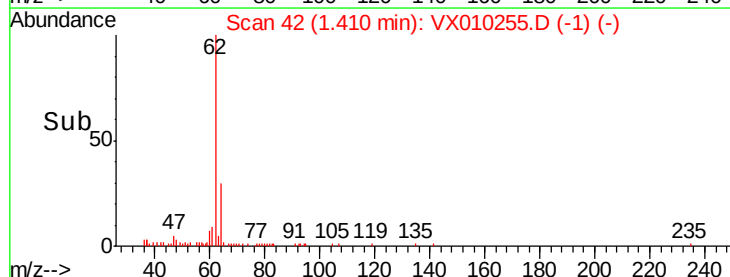
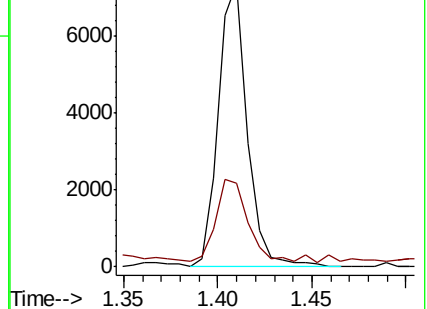
64 27.8 25.7 38.5

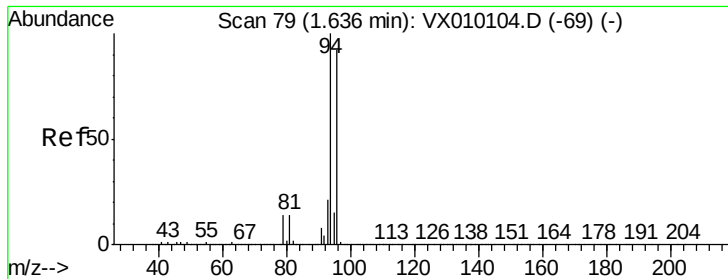


Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41





#5

Bromomethane

Concen: 0.326 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010255.D

Acq: 12 Jun 2019 16:58

Instrument :

MSVOA_X

ClientSampleId :

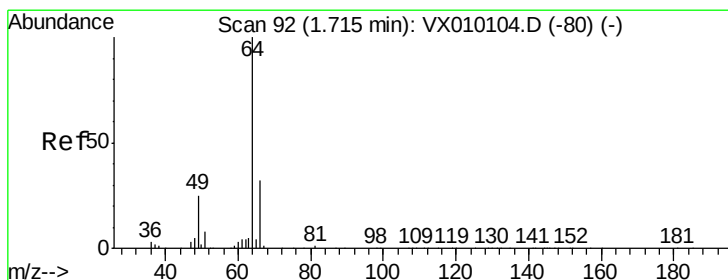
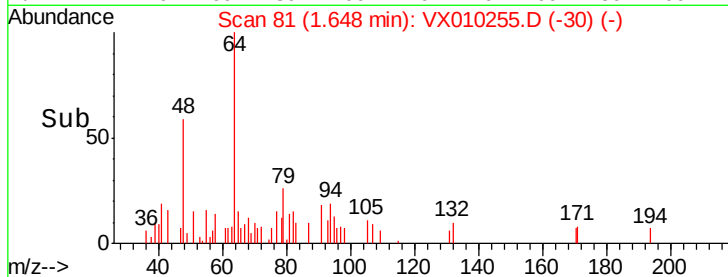
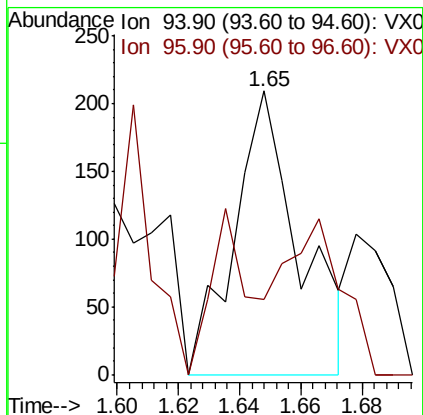
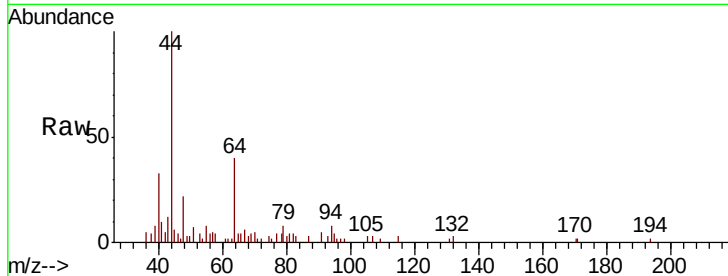
LF012RW161-190611

Tot Ion: 94 Resp: 308

Ion Ratio Lower Upper

94 100

96 26.3 76.2 114.4#



#6

Chloroethane

Concen: 0.230 ug/l

RT: 1.68 min Scan# 87

Delta R.T. -0.03 min

Lab File: VX010255.D

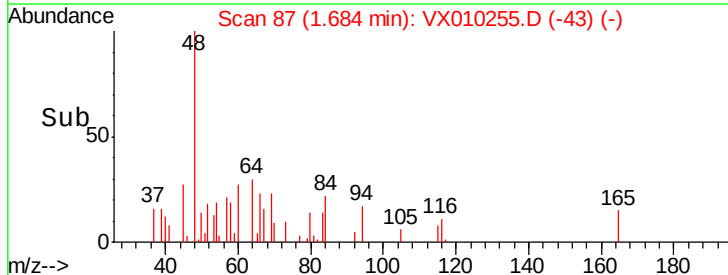
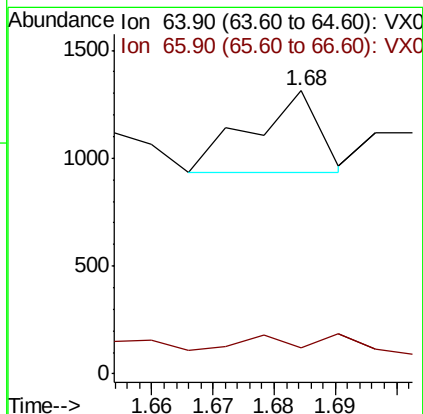
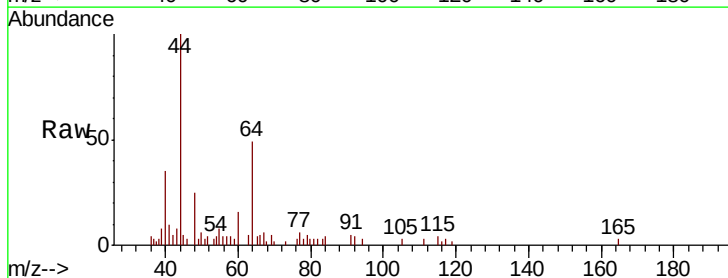
Acq: 12 Jun 2019 16:58

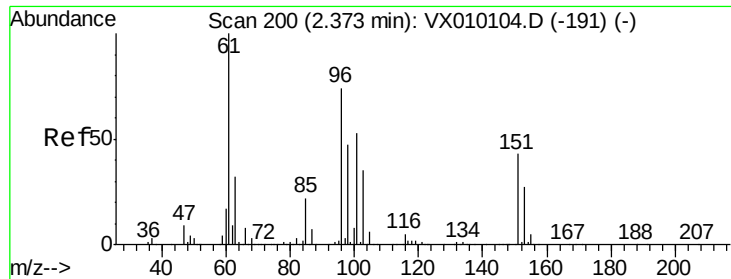
Tgt Ion: 64 Resp: 290

Ion Ratio Lower Upper

64 100

66 3.2 25.1 37.7#

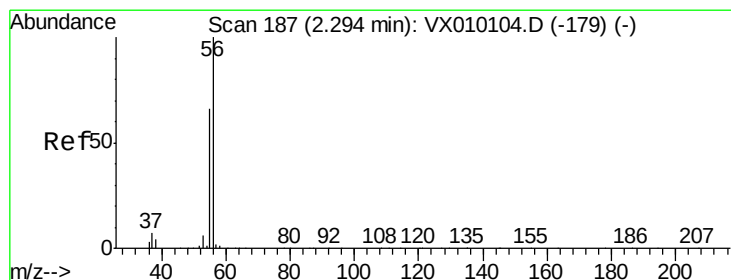
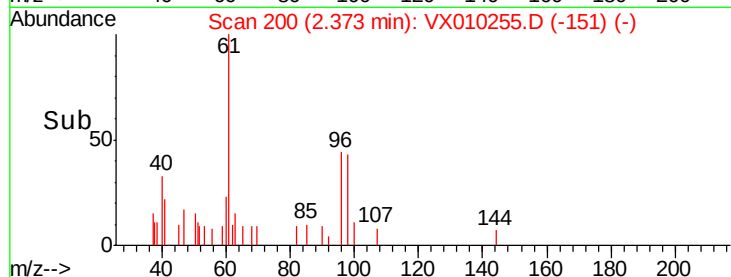
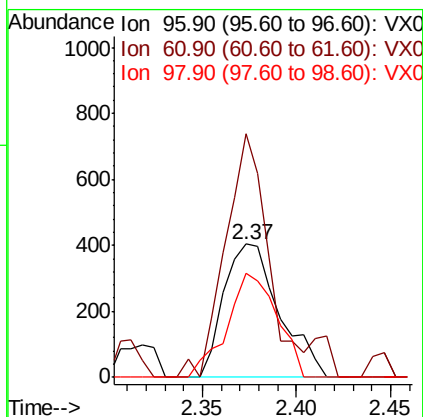
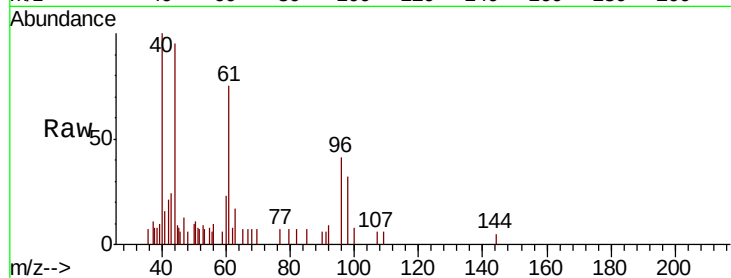




#12
 1,1-Dichloroethene
 Concen: 0.315 ug/l
 RT: 2.37 min Scan# 200
 Delta R.T. 0.00 min
 Lab File: VX010255.D
 Acq: 12 Jun 2019 16:58

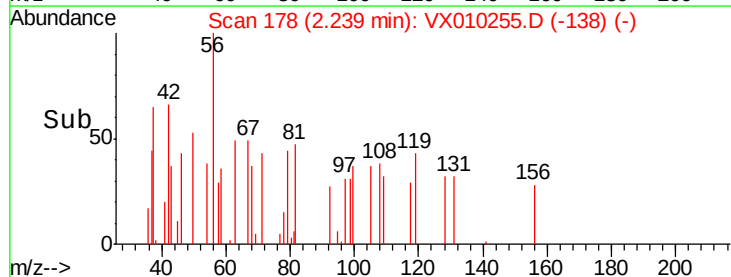
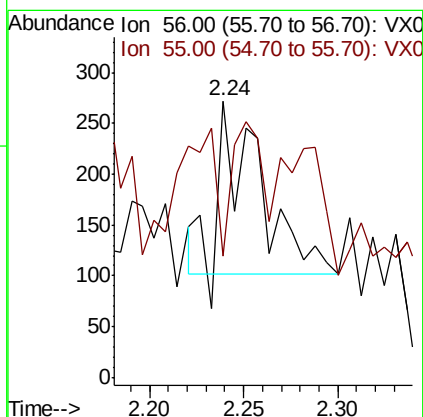
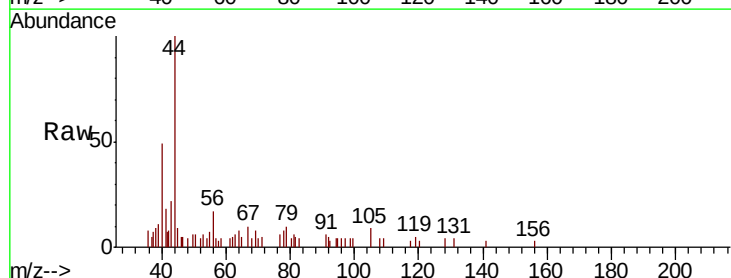
Instrument :
 MSVOA_X
 ClientSampleId :
 LF012RW161-190611

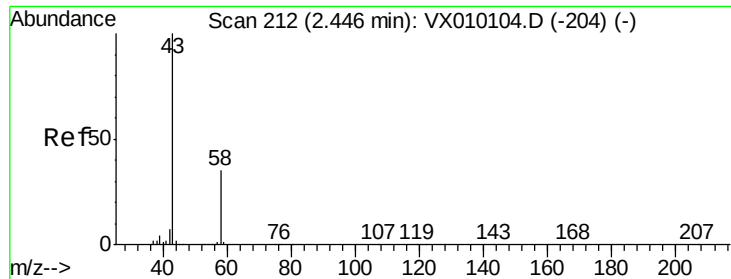
Tot Ion: 96 Resp: 824
 Ion Ratio Lower Upper
 96 100
 61 182.7 140.7 211.1
 98 78.0 50.1 75.1#



#13
 Acrolein
 Concen: 2.046 ug/l
 RT: 2.24 min Scan# 178
 Delta R.T. -0.05 min
 Lab File: VX010255.D
 Acq: 12 Jun 2019 16:58

Tgt Ion: 56 Resp: 260
 Ion Ratio Lower Upper
 56 100
 55 58.5 57.0 85.4





#16

Acetone

Concen: 0.768 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010255.D

Acq: 12 Jun 2019 16:58

Instrument :

MSVOA_X

ClientSampleId :

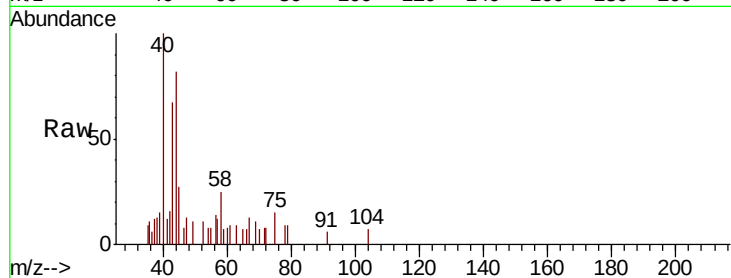
LF012RW161-190611

Tot Ion: 43 Resp: 1028

Ion Ratio Lower Upper

43 100

58 42.4 23.2 34.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

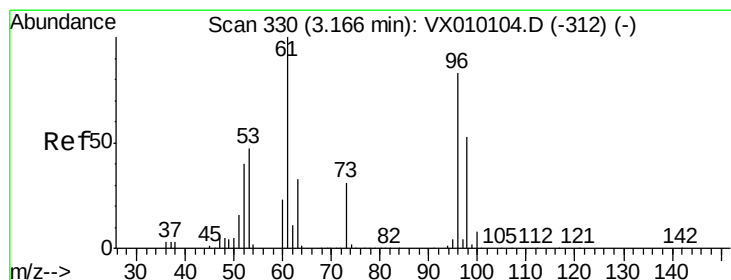
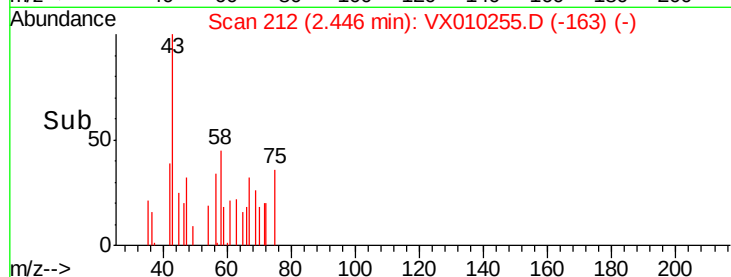
2.45

400

200

0

Time-->



#21

trans-1,2-Dichloroethene

Concen: 0.261 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.00 min

Lab File: VX010255.D

Acq: 12 Jun 2019 16:58

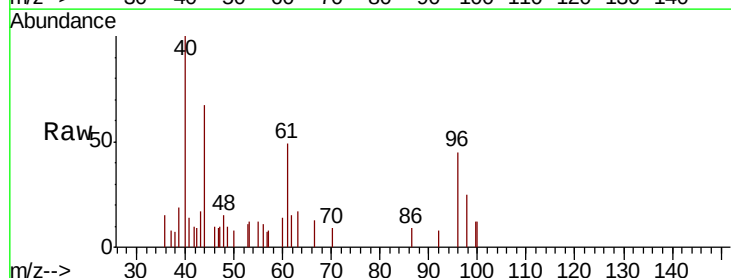
Tgt Ion: 96 Resp: 756

Ion Ratio Lower Upper

96 100

61 89.5 125.7 188.5#

98 55.3 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

3.17

400

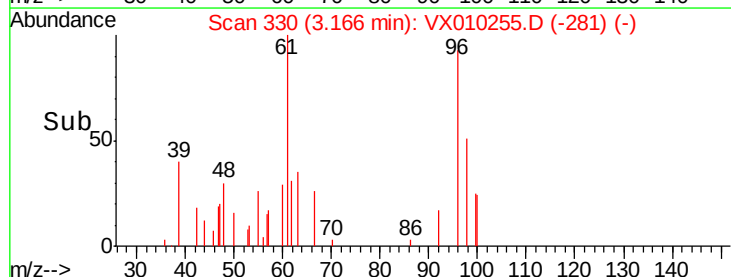
300

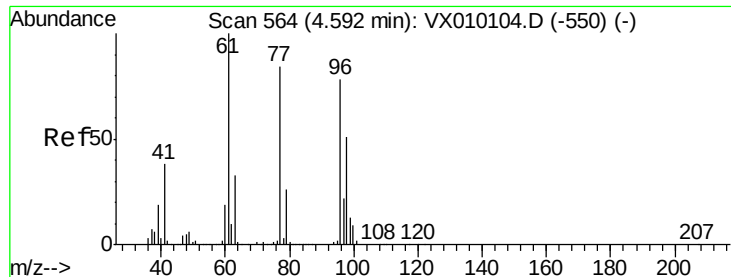
200

100

0

Time-->



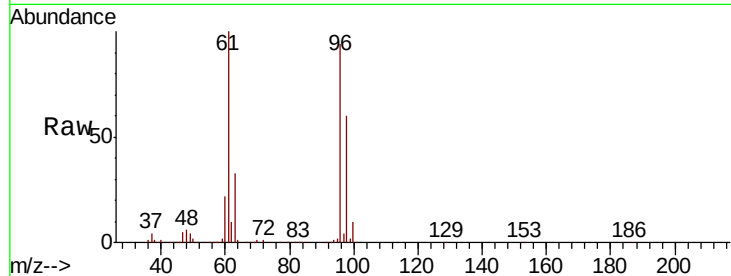


#27

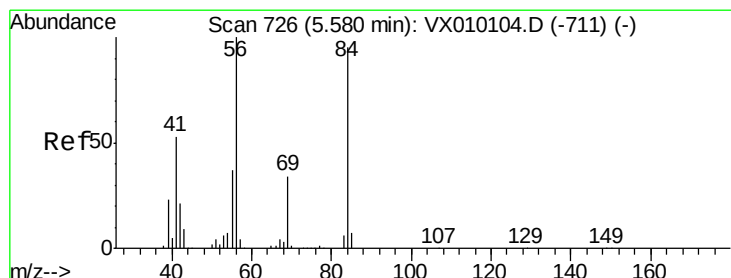
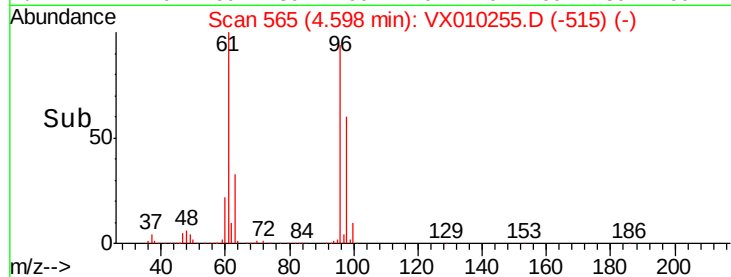
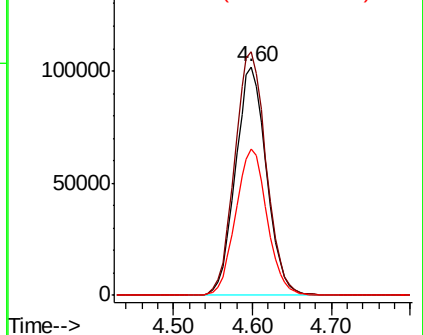
cis-1,2-Dichloroethene
 Concen: 86.476 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. 0.01 min
 Lab File: VX010255.D
 Acq: 12 Jun 2019 16:58

Instrument :
 MSVOA_X
 ClientSampleId :
 LF012RW161-190611

Tot Ion	96	Resp	278752
Ion	Ratio	Lower	Upper
96	100		
61	108.8	0.0	334.0
98	64.9	0.0	131.6



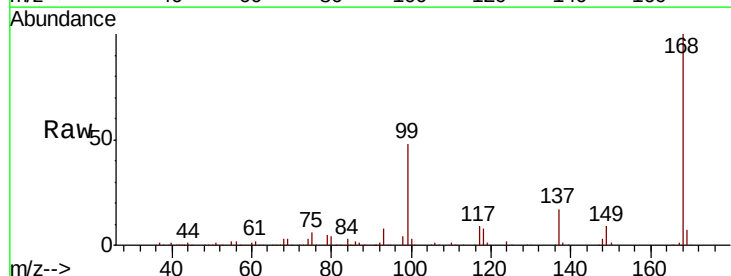
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



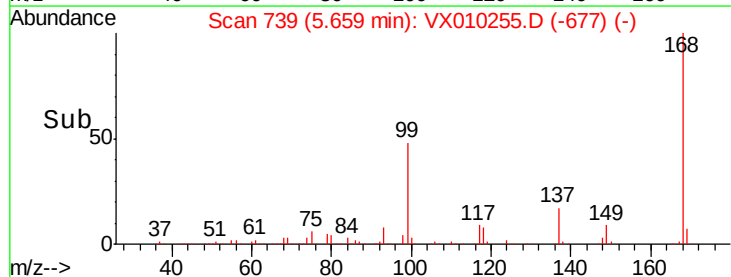
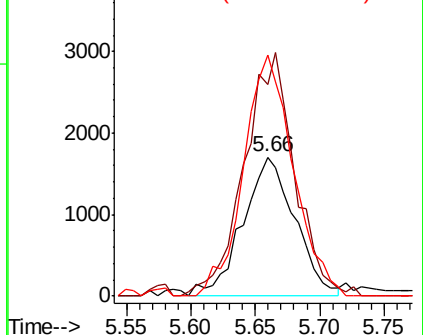
#31

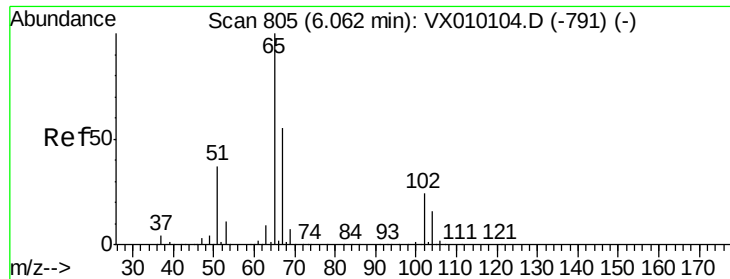
Cyclohexane
 Concen: 1.158 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. 0.08 min
 Lab File: VX010255.D
 Acq: 12 Jun 2019 16:58

Tgt Ion	56	Resp	4796
Ion	Ratio	Lower	Upper
56	100		
69	149.4	21.6	32.4#
84	174.1	56.8	85.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0
 Ion 69.00 (68.70 to 69.70): VX0
 Ion 84.00 (83.70 to 84.70): VX0

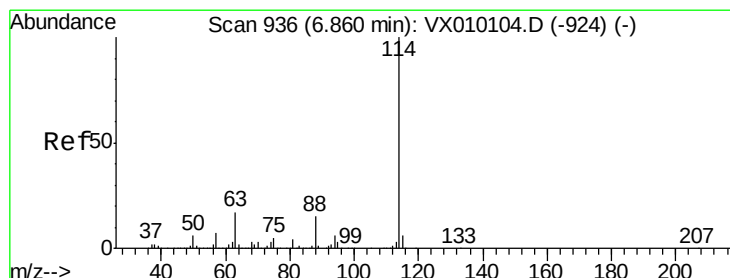
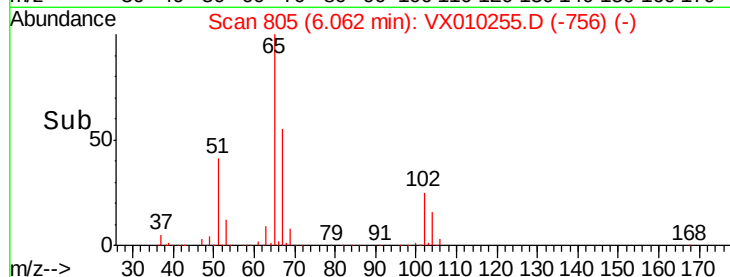
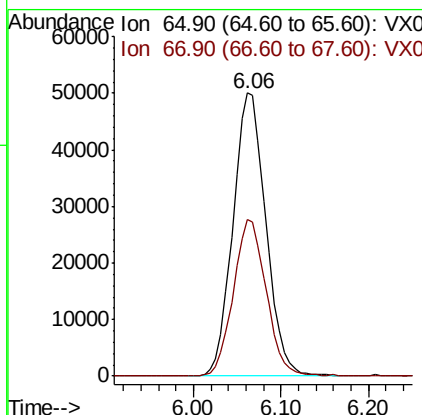
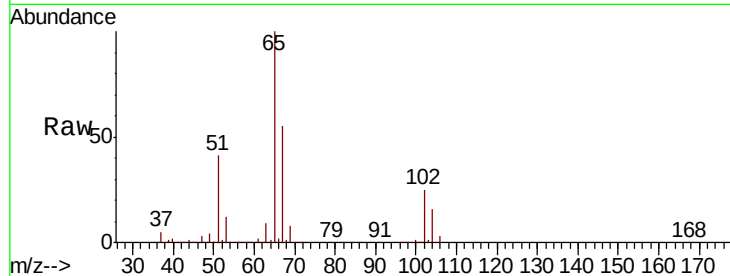




#33
 1,2-Dichloroethane-d4
 Concen: 46.035 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX010255.D
 Acq: 12 Jun 2019 16:58

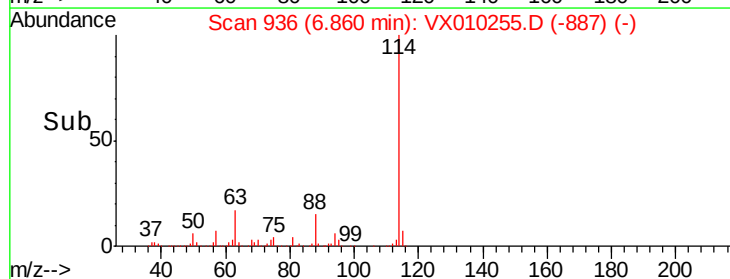
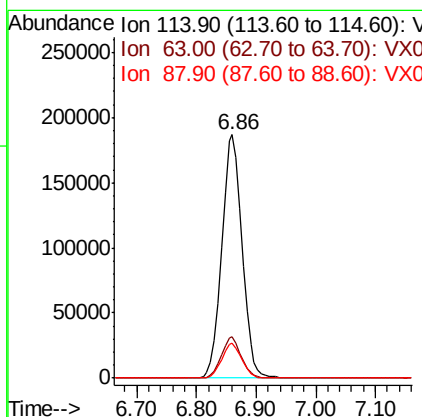
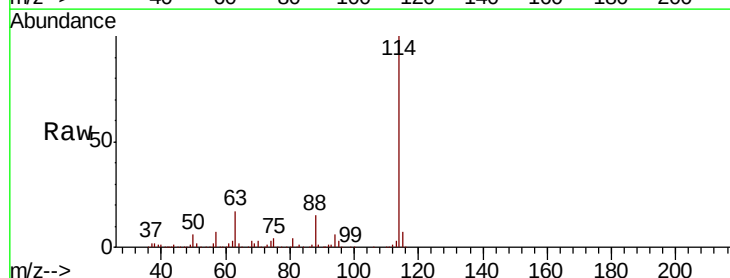
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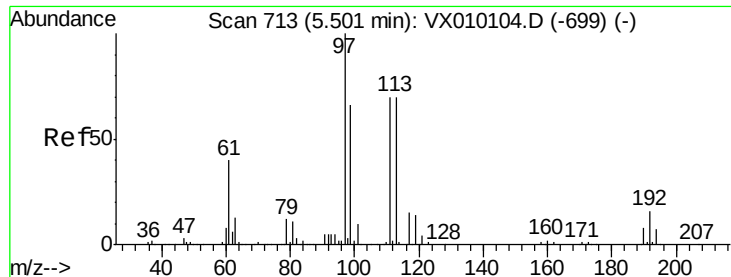
Tot Ion: 65 Resp: 130987
 Ion Ratio Lower Upper
 65 100
 67 55.1 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX010255.D
 Acq: 12 Jun 2019 16:58

Tgt Ion: 114 Resp: 443417
 Ion Ratio Lower Upper
 114 100
 63 17.0 0.0 47.4
 88 14.5 0.0 33.0





#35

Dibromofluoromethane

Concen: 49.960 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010255.D

Acq: 12 Jun 2019 16:58

Instrument :

MSVOA_X

ClientSampleId :

LF012RW161-190611

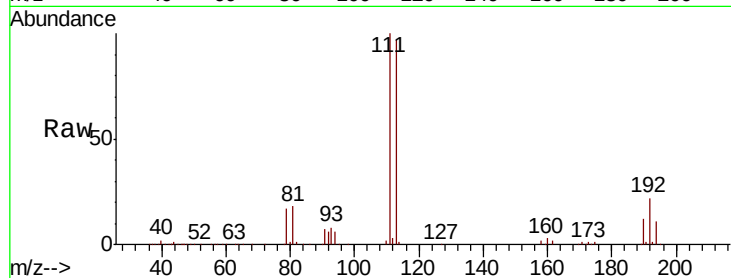
Tot Ion:113 Resp: 136646

Ion Ratio Lower Upper

113 100

111 100.6 82.2 123.2

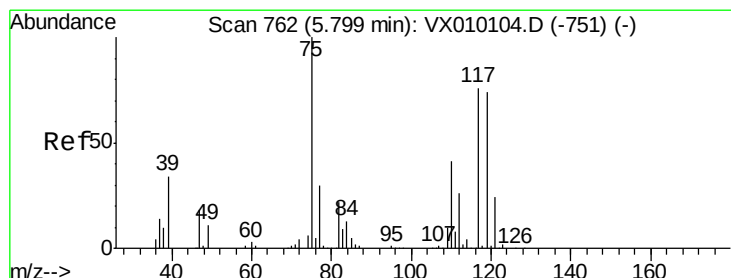
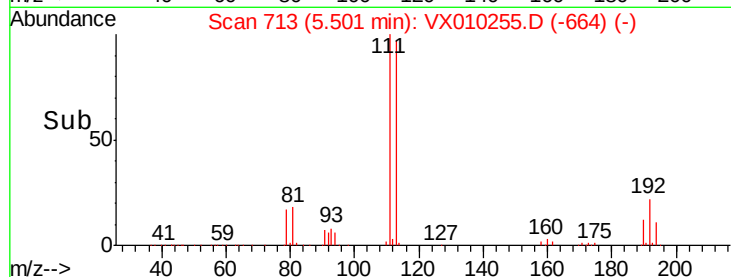
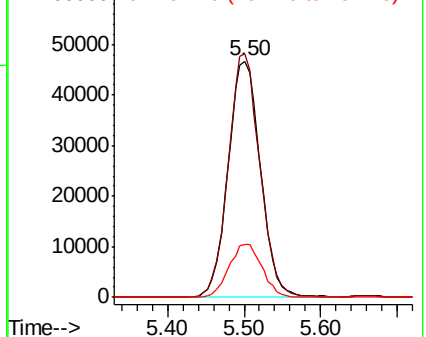
192 23.0 17.1 25.7



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: 4.949 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010255.D

Acq: 12 Jun 2019 16:58

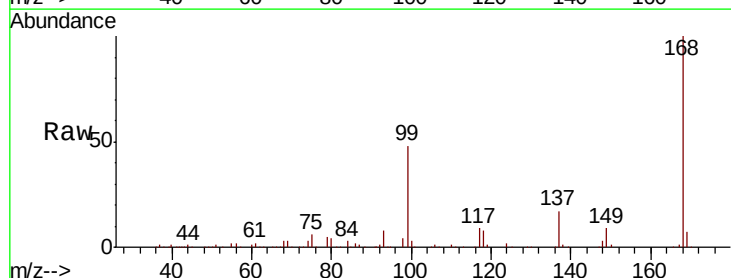
Tgt Ion: 75 Resp: 17905

Ion Ratio Lower Upper

75 100

110 10.6 16.7 50.1#

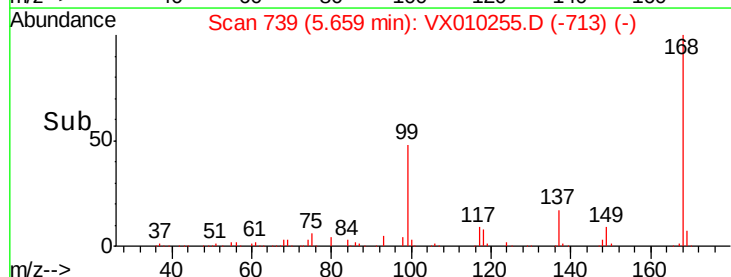
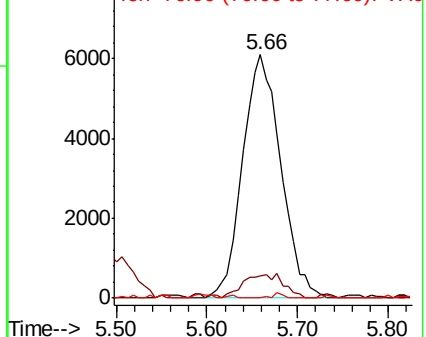
77 0.5 25.0 37.4#

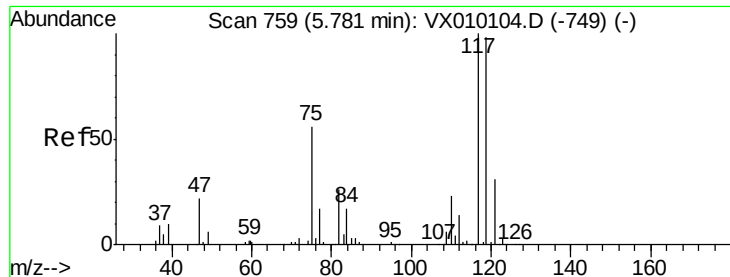


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.983 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX010255.D

Acq: 12 Jun 2019 16:58

Instrument :

MSVOA_X

ClientSampleId :

LF012RW161-190611

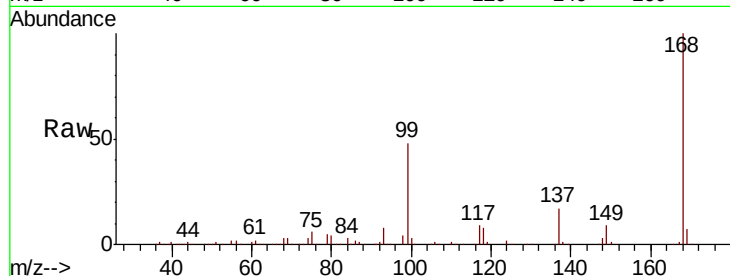
Tot Ion:117 Resp: 24498

Ion Ratio Lower Upper

117 100

119 5.7 77.3 115.9#

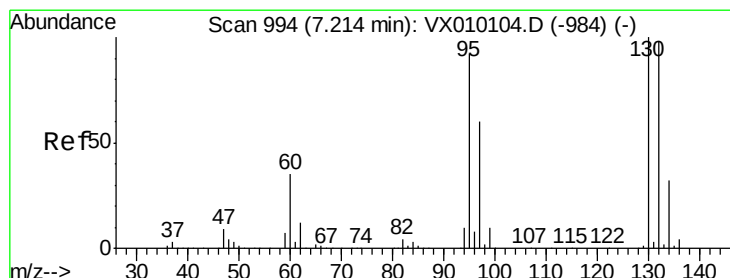
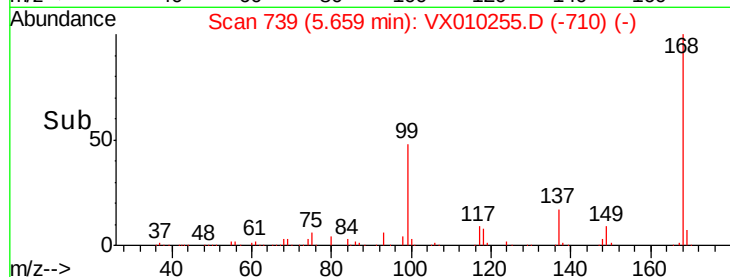
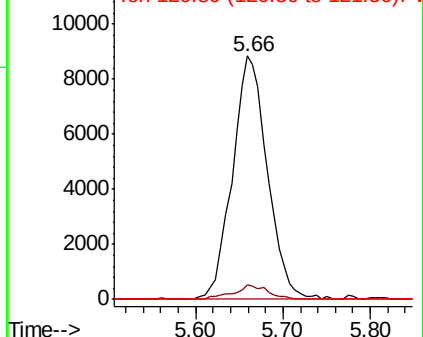
121 0.0 25.4 38.0#



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



#44

Trichloroethene

Concen: 0.373 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX010255.D

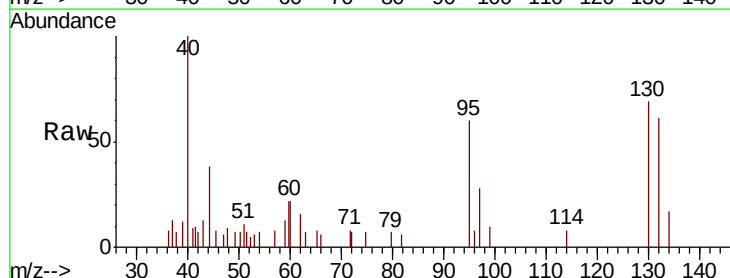
Acq: 12 Jun 2019 16:58

Tgt Ion:130 Resp: 1257

Ion Ratio Lower Upper

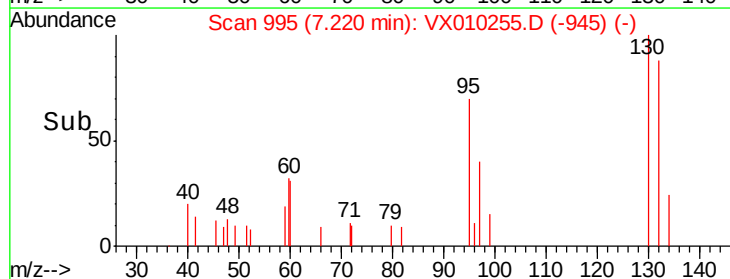
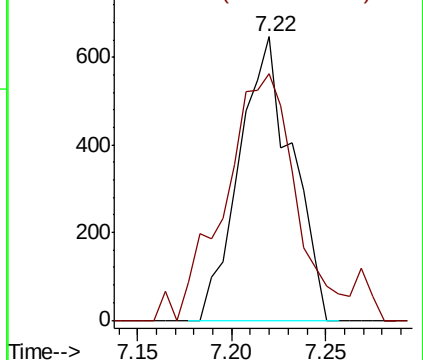
130 100

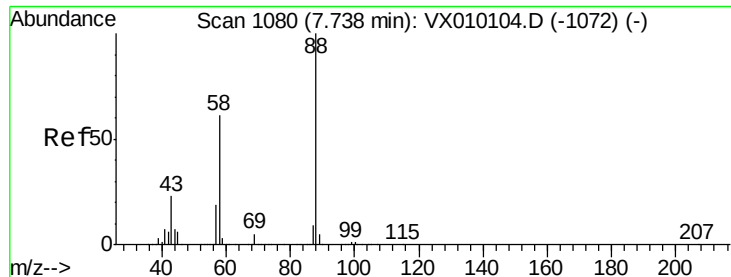
95 77.6 0.0 207.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

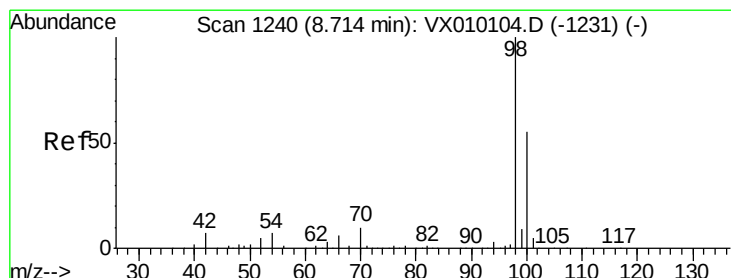
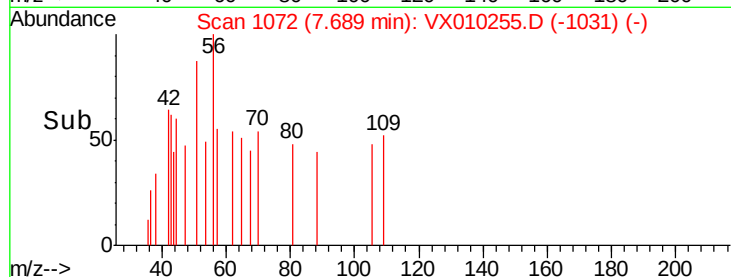
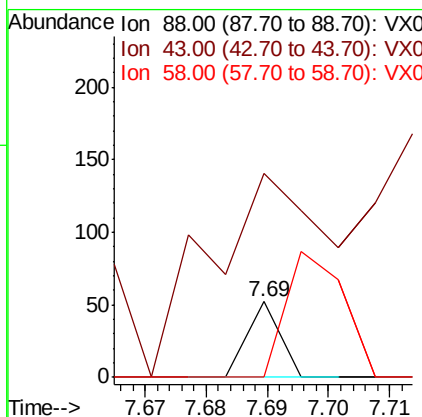
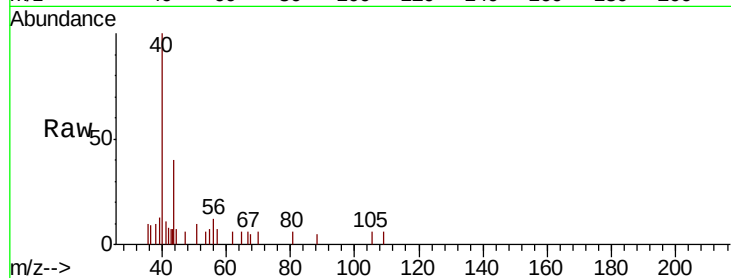




#49
1,4-Dioxane
Concen: 0.226 ug/l
RT: 7.69 min Scan# 1072
Delta R.T. -0.05 min
Lab File: VX010255.D
Acq: 12 Jun 2019 16:58

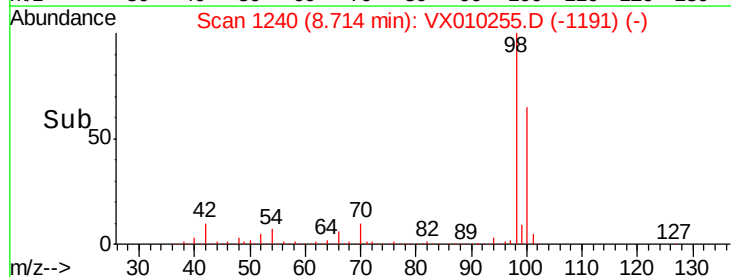
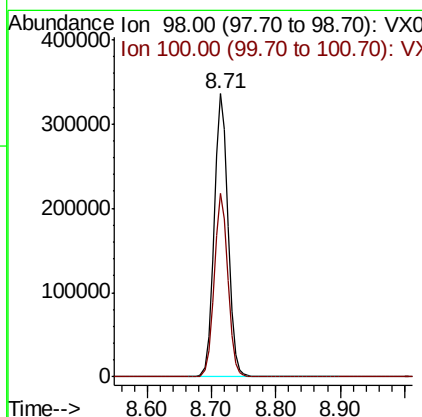
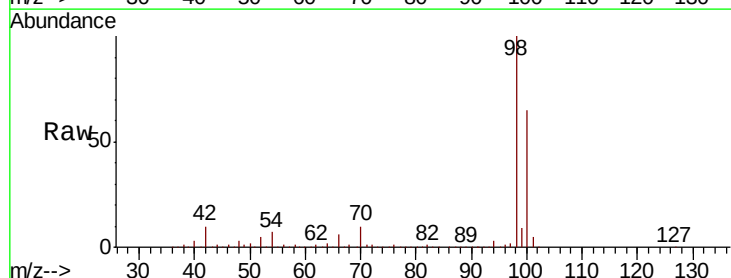
Instrument :
MSVOA_X
ClientSampleId :
LF012RW161-190611

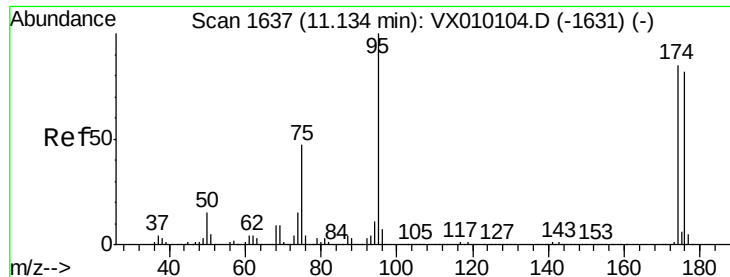
Tot Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 989.5 30.2 45.4#
58 294.7 64.0 96.0#



#50
Toluene-d8
Concen: 49.899 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010255.D
Acq: 12 Jun 2019 16:58

Tgt Ion: 98 Resp: 511496
Ion Ratio Lower Upper
98 100
100 63.8 51.5 77.3





#62

4-Bromofluorobenzene

Concen: 43.313 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010255.D

Acq: 12 Jun 2019 16:58

Instrument :

MSVOA_X

ClientSampleId :

LF012RW161-190611

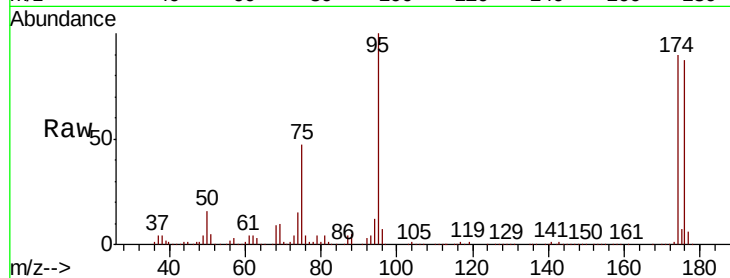
Tot Ion: 95 Resp: 165812

Ion Ratio Lower Upper

95 100

174 95.6 0.0 160.4

176 93.5 0.0 154.6

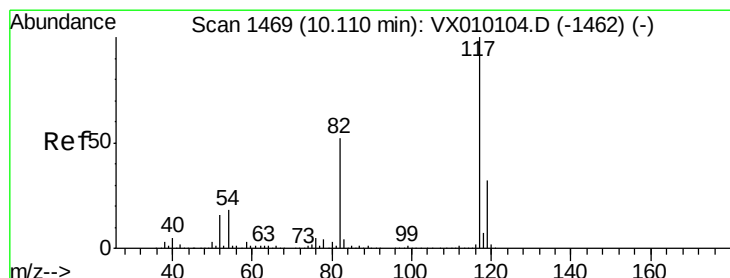
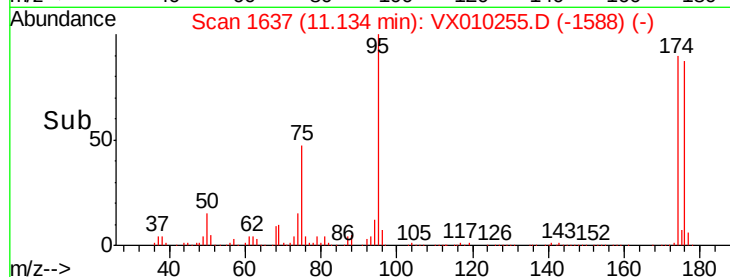


Abundance Ion 94.90 (94.60 to 95.60): VX010104.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX010104.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX010104.D (-1631) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX010255.D

Acq: 12 Jun 2019 16:58

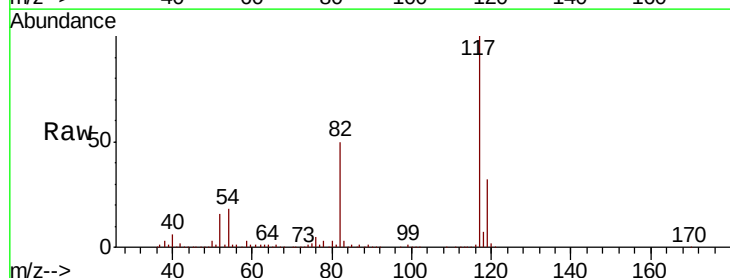
Tgt Ion: 117 Resp: 385072

Ion Ratio Lower Upper

117 100

82 49.5 49.2 73.8

119 32.0 25.2 37.8

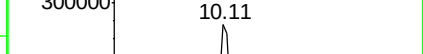
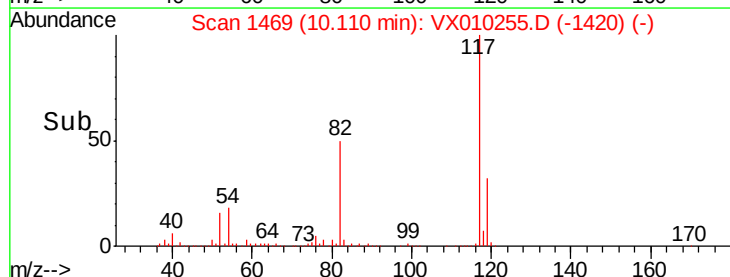


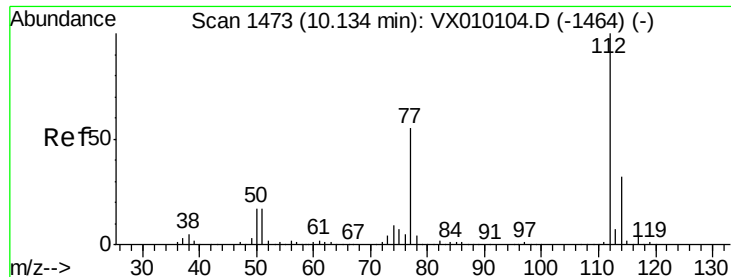
Abundance Ion 116.90 (116.60 to 117.60): VX010104.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX010104.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX010104.D (-1462) (-)

Time-->





#65

Chlorobenzene

Concen: 1.028 ug/l

RT: 10.13 min Scan# 1473

Delta R.T. 0.00 min

Lab File: VX010255.D

Acq: 12 Jun 2019 16:58

Instrument :

MSVOA_X

ClientSampleId :

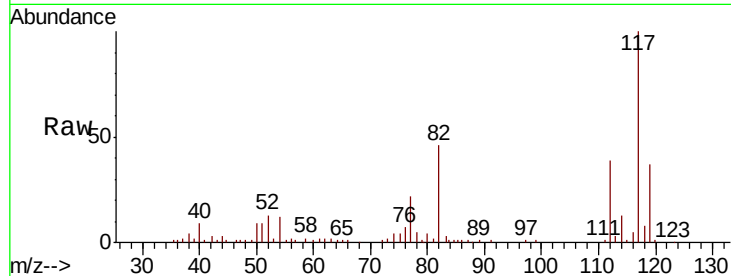
LF012RW161-190611

Tot Ion:112 Resp: 8173

Ion Ratio Lower Upper

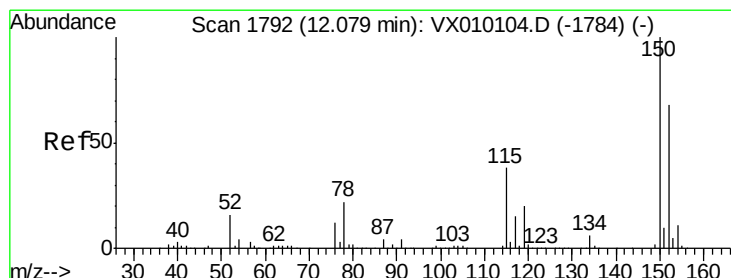
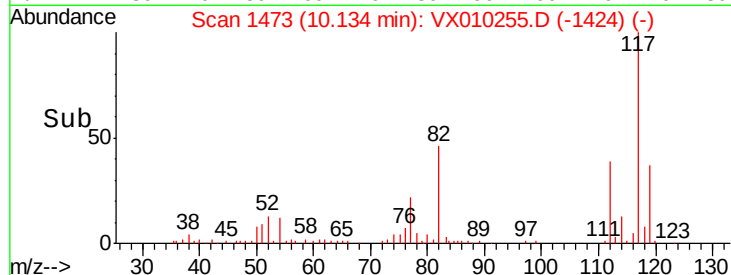
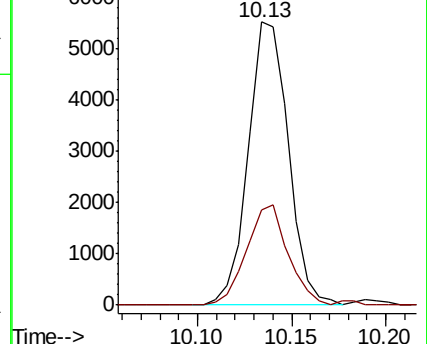
112 100

114 33.6 25.8 38.8



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: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX010255.D

Acq: 12 Jun 2019 16:58

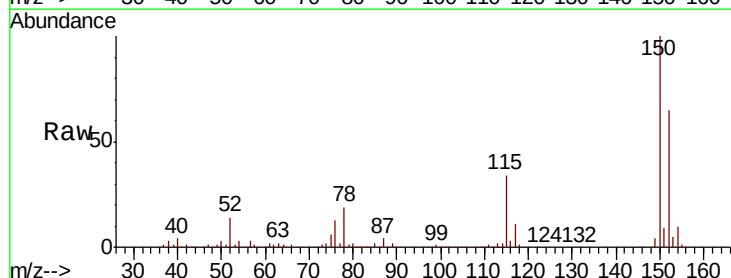
Tgt Ion:152 Resp: 174744

Ion Ratio Lower Upper

152 100

115 53.9 41.4 124.2

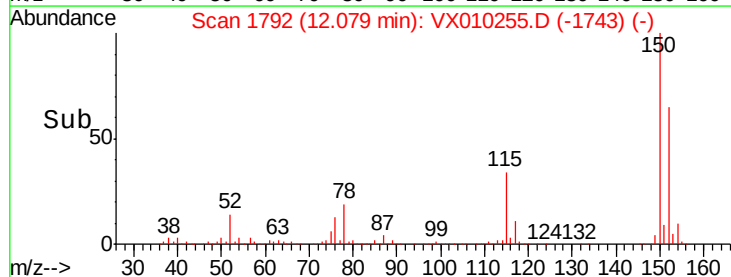
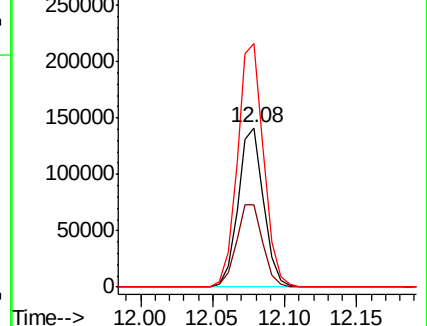
150 156.6 0.0 345.2

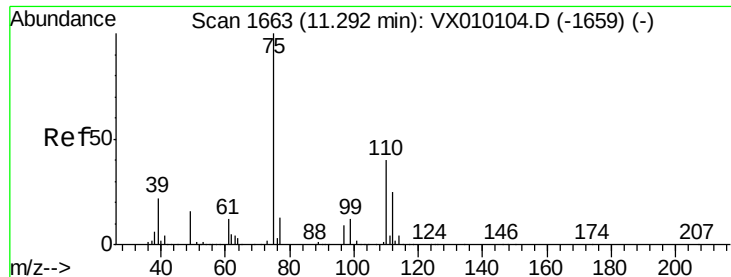


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.070 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010255.D

Acq: 12 Jun 2019 16:58

Instrument :

MSVOA_X

ClientSampleId :

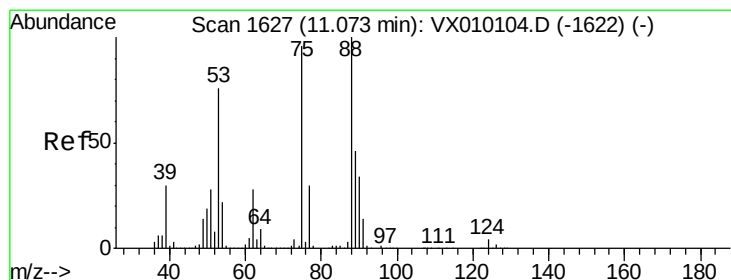
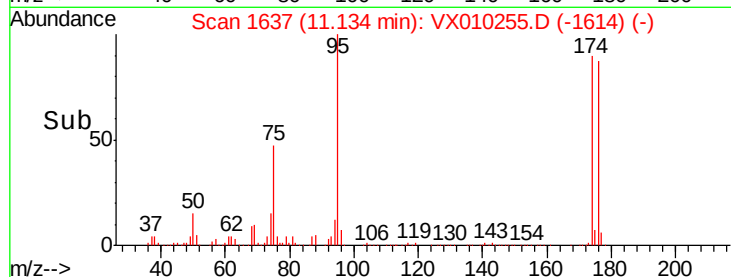
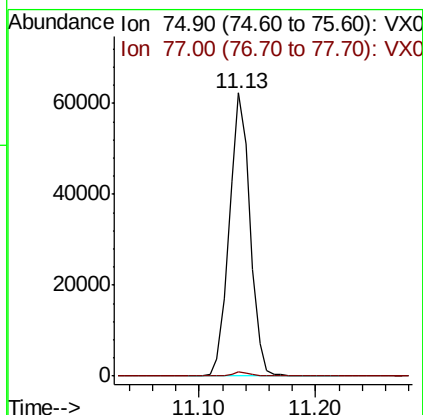
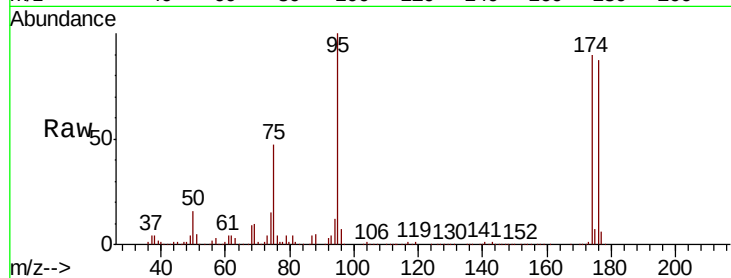
LF012RW161-190611

Tot Ion: 75 Resp: 77138

Ion Ratio Lower Upper

75 100

77 1.4 22.1 66.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 48.761 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010255.D

Acq: 12 Jun 2019 16:58

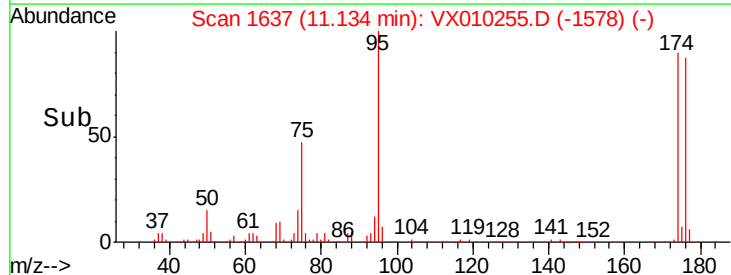
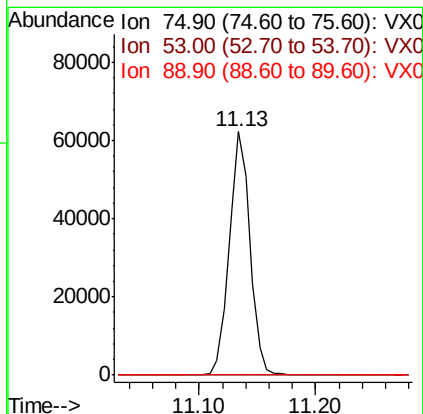
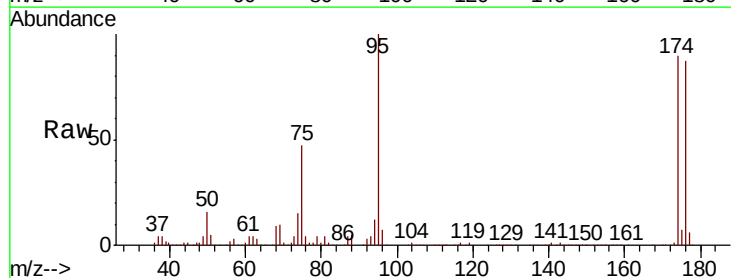
Tgt Ion: 75 Resp: 77138

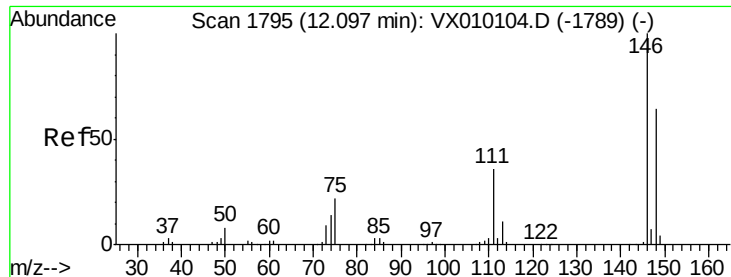
Ion Ratio Lower Upper

75 100

53 0.2 79.8 119.6#

89 0.0 34.2 51.4#

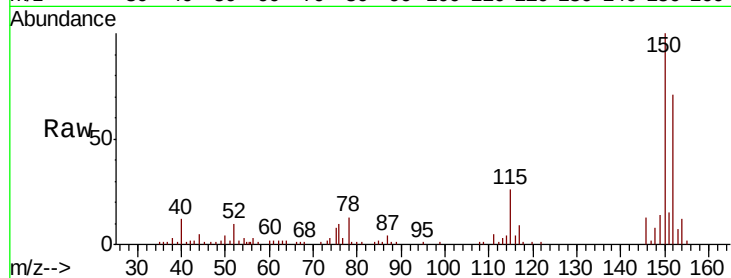




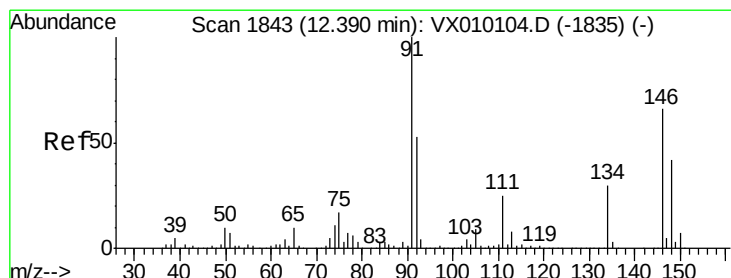
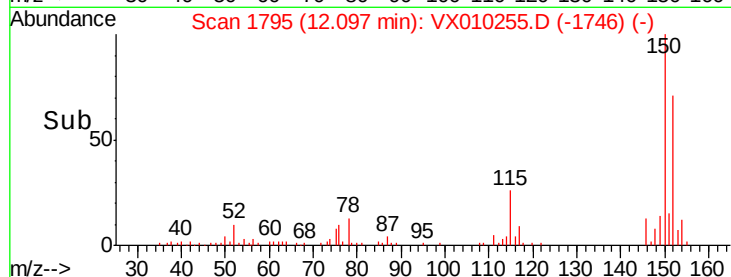
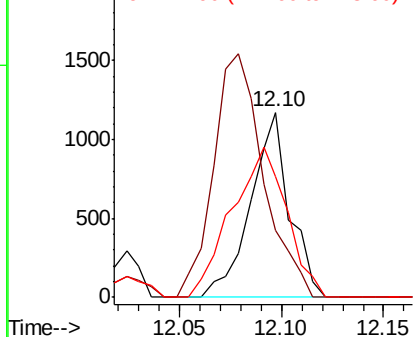
#88
 1,4-Dichlorobenzene
 Concen: 0.262 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. 0.00 min
 Lab File: VX010255.D
 Acq: 12 Jun 2019 16:58

Instrument :
 MSVOA_X
 ClientSampleId :
 LF012RW161-190611

Tot Ion:146 Resp: 1558
 Ion Ratio Lower Upper
 146 100
 111 167.5 20.0 59.9#
 148 114.6 32.3 96.9#

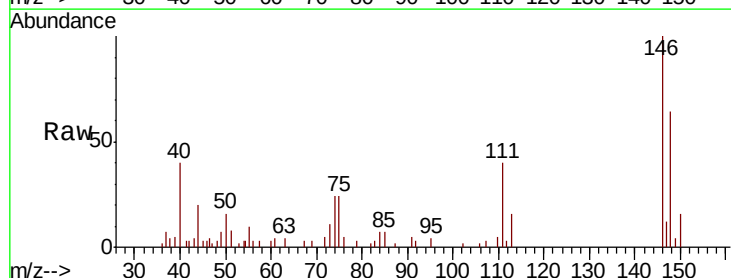


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V



#91
 1,2-Dichlorobenzene
 Concen: 0.565 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. 0.00 min
 Lab File: VX010255.D
 Acq: 12 Jun 2019 16:58

Tgt Ion:146 Resp: 3245
 Ion Ratio Lower Upper
 146 100
 111 38.0 21.1 63.1
 148 65.5 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

