

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061019\
 Data File : VX010203.D
 Acq On : 11 Jun 2019 02:16
 Operator : JC/SP
 Sample : K3255-21DL 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE103D1-20190605DL

Quant Time: Jun 11 06:19:37 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	5.66	168	242991	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	368182	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	333485	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	156565	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	107500	45.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.64%	
35) Dibromofluoromethane	5.49	113	112183	49.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.80%	
50) Toluene-d8	8.71	98	432661	50.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.66%	
62) 4-Bromofluorobenzene	11.13	95	149343	46.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.96%	

Target Compounds

						Qvalue
3) Chloromethane	1.33	50	481	0.217	ug/l	98
5) Bromomethane	1.64	94	451	0.573	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.37	101	1578	0.738	ug/l	89
11) Tert butyl alcohol	3.01	59	12333	21.226	ug/l #	82
12) 1,1-Dichloroethene	2.35	96	1113	0.510	ug/l #	63
13) Acrolein	2.29	56	159	1.501	ug/l	83
15) Acrylonitrile	3.15	53	277	0.233	ug/l #	41
16) Acetone	2.46	43	664	0.595	ug/l #	53
27) cis-1,2-Dichloroethene	4.59	96	817	0.304	ug/l	96
36) 1,1-Dichloropropene	5.65	75	14694	4.892	ug/l #	42
38) Carbon Tetrachloride	5.66	117	21162	6.224	ug/l #	16
39) Methylcyclohexane	7.21	83	2470	0.604	ug/l #	1
44) Trichloroethene	7.21	130	237761	84.921	ug/l	83
49) 1,4-Dioxane	7.74	88	22	0.316	ug/l #	1
60) Dibromochloromethane	9.33	129	1338	0.452	ug/l #	11
64) Tetrachloroethene	9.34	164	1315	0.531	ug/l	90
76) 1,2,3-Trichloropropane	11.13	75	67002	21.395	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	67002	47.272	ug/l #	10

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX010203.D

Acq: 11 Jun 2019 02:16

Instrument :

MSVOA_X

ClientSampleId :

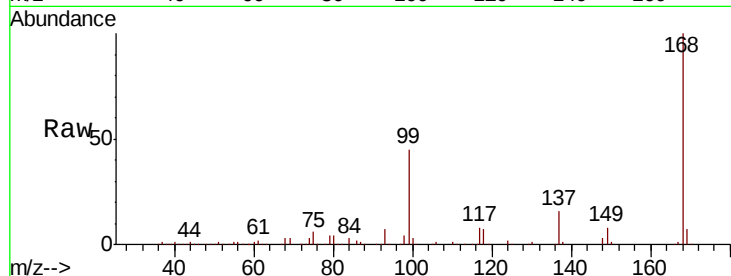
RE103D1-20190605DL

Tot Ion:168 Resp: 242991

Ion Ratio Lower Upper

168 100

99 45.1 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

60000

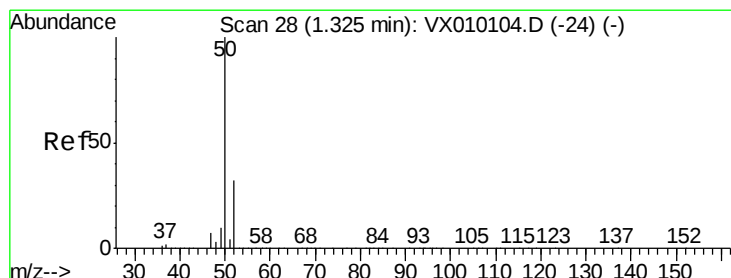
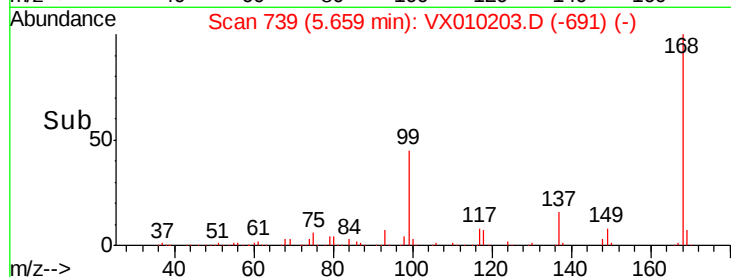
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.217 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX010203.D

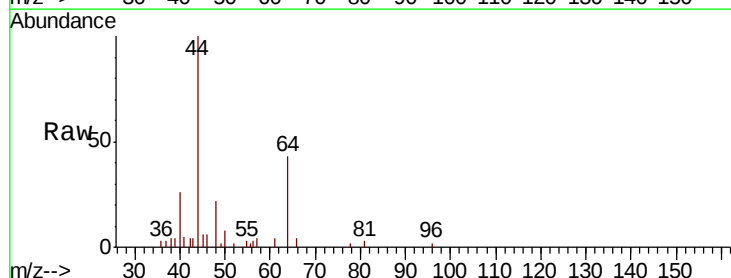
Acq: 11 Jun 2019 02:16

Tgt Ion: 50 Resp: 481

Ion Ratio Lower Upper

50 100

52 31.3 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

400

300

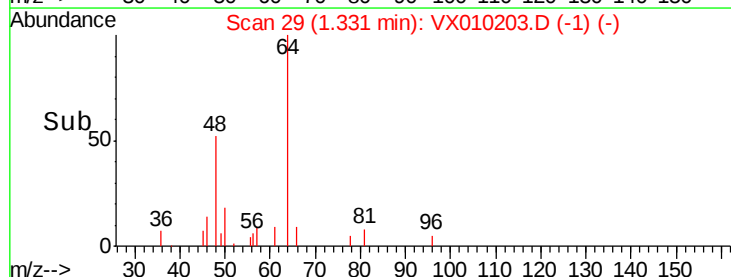
200

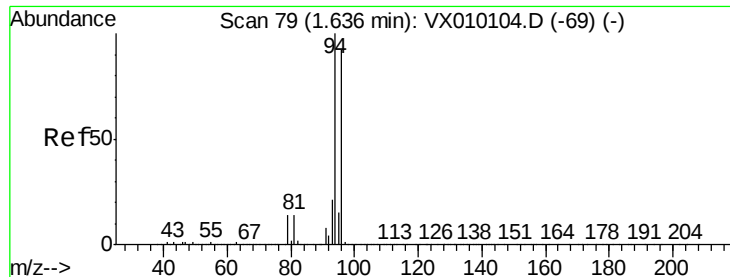
100

0

Time-->

1.30 1.35 1.40





#5

Bromomethane

Concen: 0.573 ug/l

RT: 1.64 min Scan# 79

Delta R.T. -0.00 min

Lab File: VX010203.D

Acq: 11 Jun 2019 02:16

Instrument :

MSVOA_X

ClientSampleId :

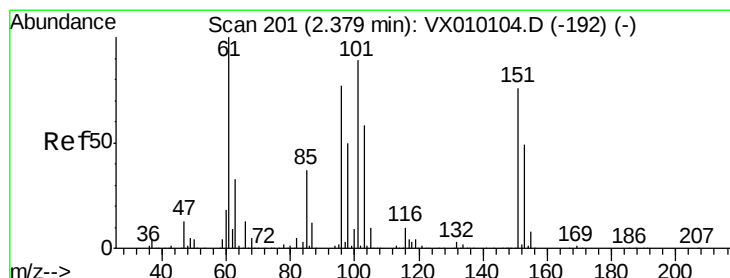
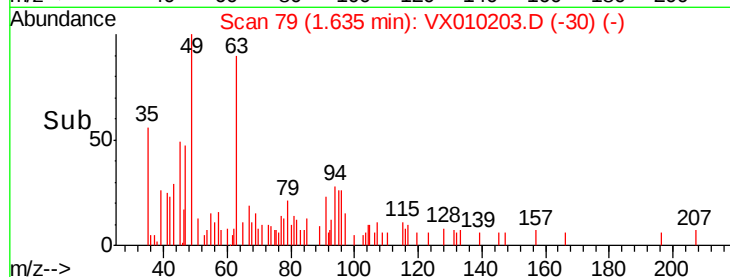
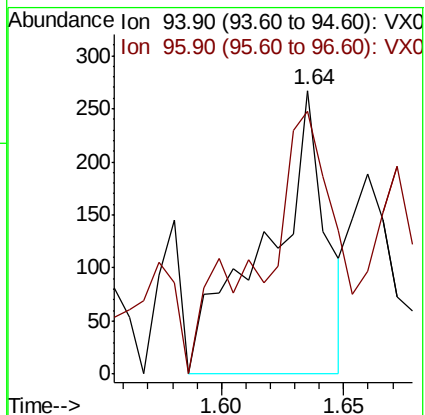
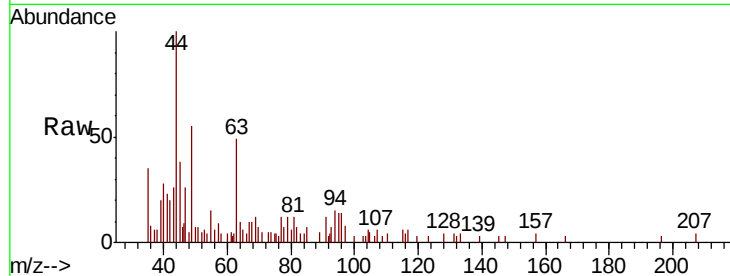
RE103D1-20190605DL

Tot Ion: 94 Resp: 451

Ion Ratio Lower Upper

94 100

96 92.9 76.2 114.4



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.738 ug/l

RT: 2.37 min Scan# 199

Delta R.T. -0.01 min

Lab File: VX010203.D

Acq: 11 Jun 2019 02:16

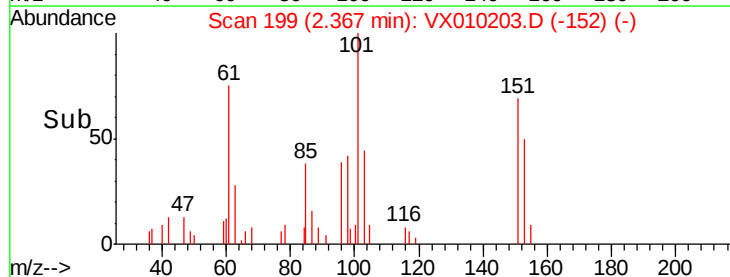
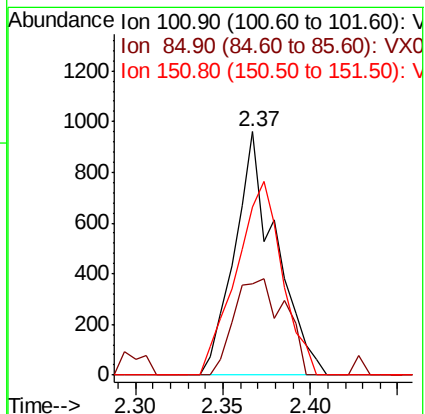
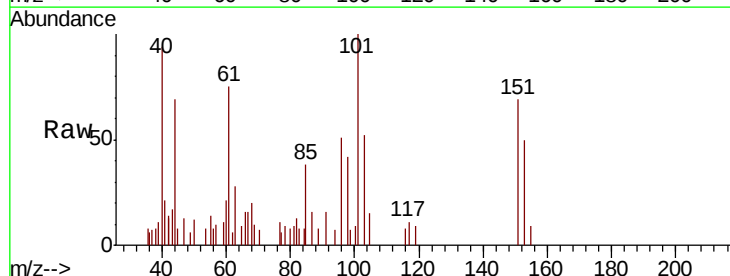
Tgt Ion: 101 Resp: 1578

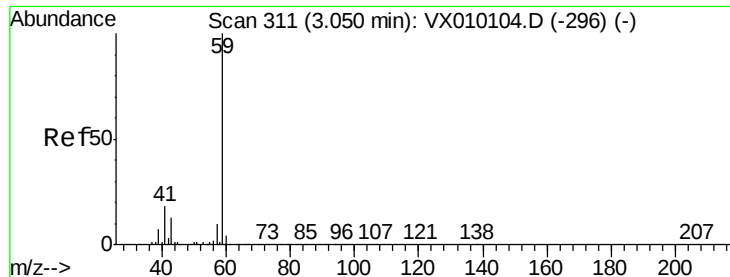
Ion Ratio Lower Upper

101 100

85 48.4 35.2 52.8

151 88.8 61.9 92.9



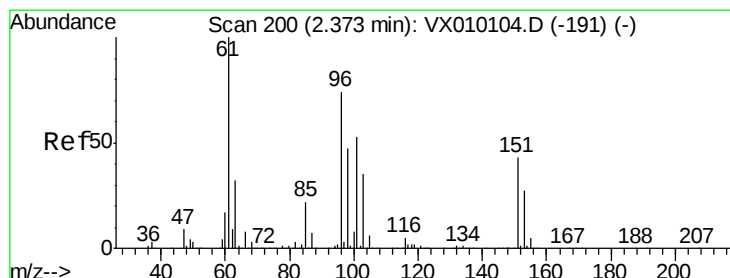
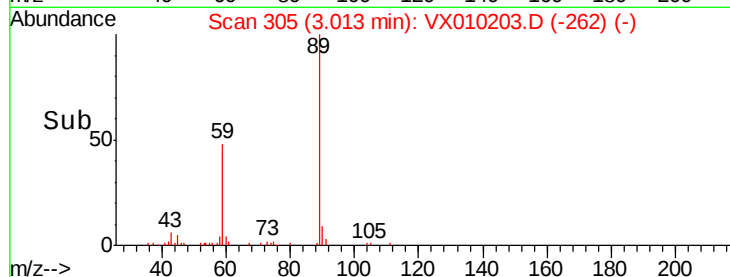
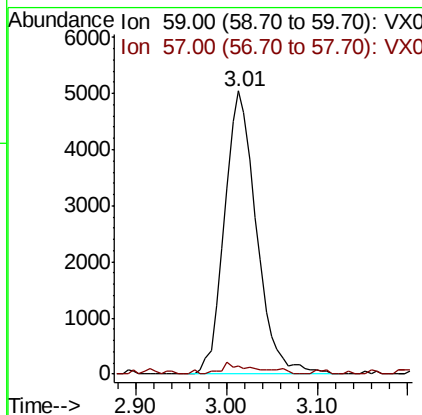
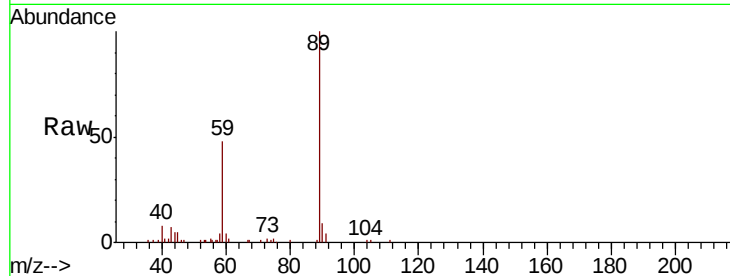


#11

Tert butyl alcohol
 Concen: 21.226 ug/l
 RT: 3.01 min Scan# 305
 Delta R.T. -0.04 min
 Lab File: VX010203.D
 Acq: 11 Jun 2019 02:16

Instrument :
 MSVOA_X
 ClientSampleId :
 RE103D1-20190605DL

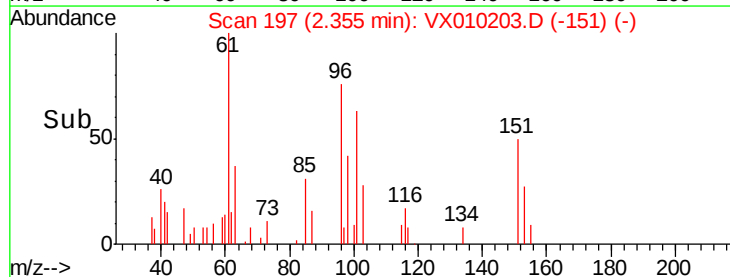
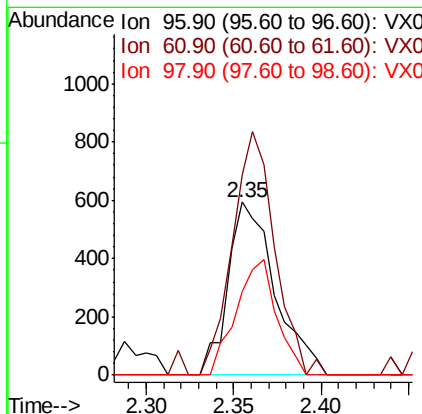
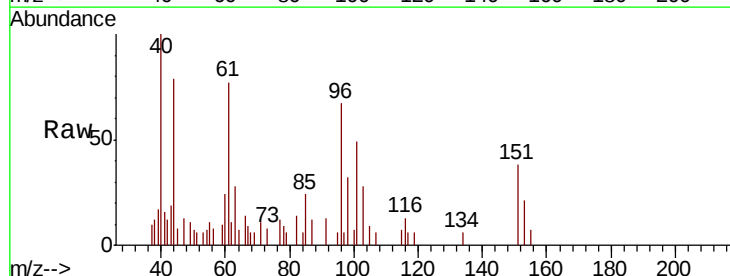
Tot Ion: 59 Resp: 12333
 Ion Ratio Lower Upper
 59 100
 57 3.6 8.2 12.2#

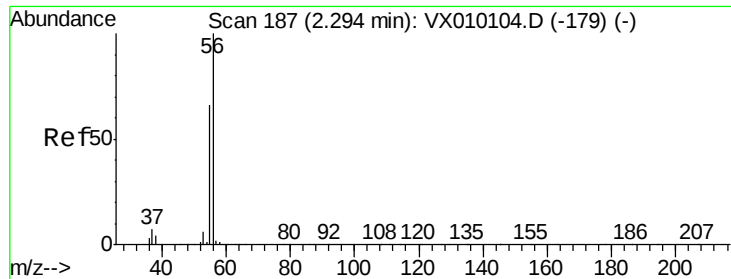


#12

1,1-Dichloroethene
 Concen: 0.510 ug/l
 RT: 2.35 min Scan# 197
 Delta R.T. -0.02 min
 Lab File: VX010203.D
 Acq: 11 Jun 2019 02:16

Tgt Ion: 96 Resp: 1113
 Ion Ratio Lower Upper
 96 100
 61 115.5 140.7 211.1#
 98 48.6 50.1 75.1#





#13

Acrolein

Concen: 1.501 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX010203.D

Acq: 11 Jun 2019 02:16

Instrument :

MSVOA_X

ClientSampleId :

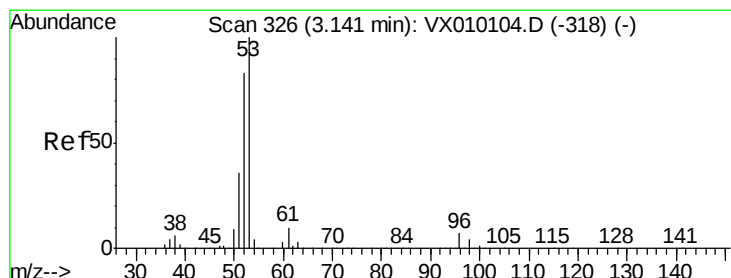
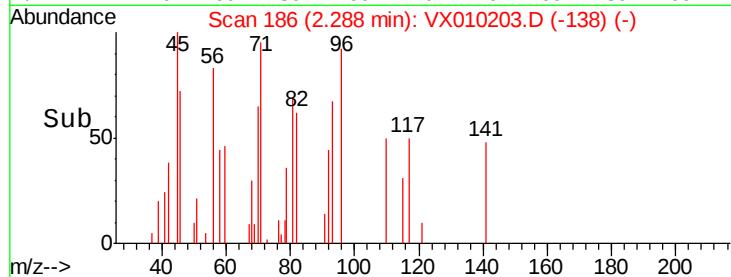
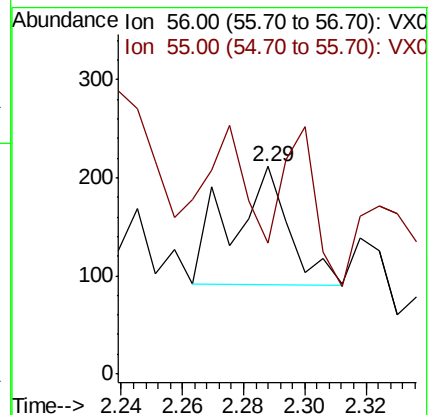
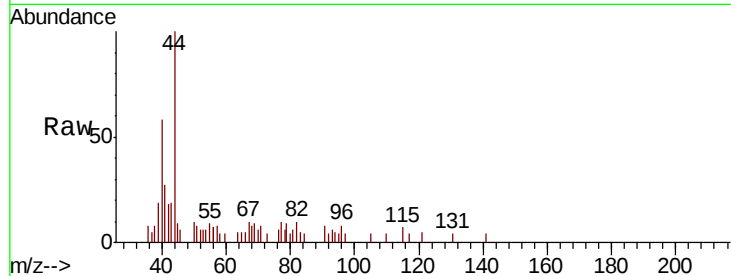
RE103D1-20190605DL

Tot Ion: 56 Resp: 159

Ion Ratio Lower Upper

56 100

55 84.9 57.0 85.4



#15

Acrylonitrile

Concen: 0.233 ug/l

RT: 3.15 min Scan# 327

Delta R.T. 0.01 min

Lab File: VX010203.D

Acq: 11 Jun 2019 02:16

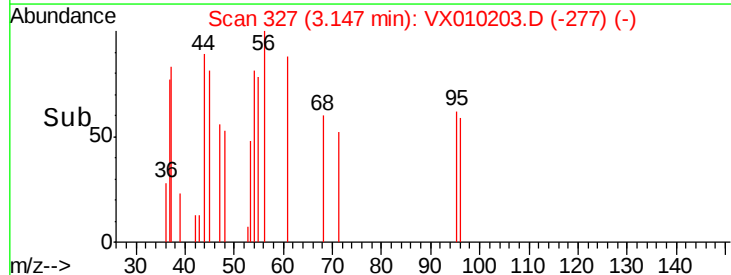
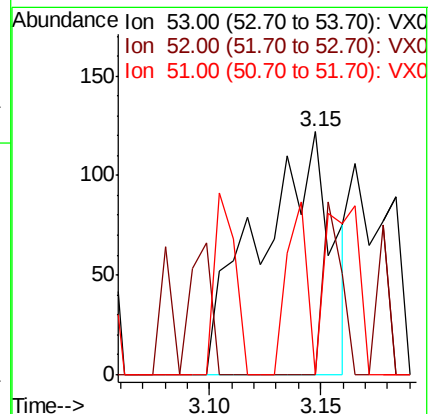
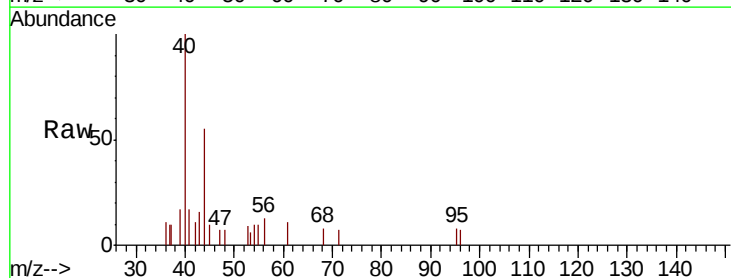
Tgt Ion: 53 Resp: 277

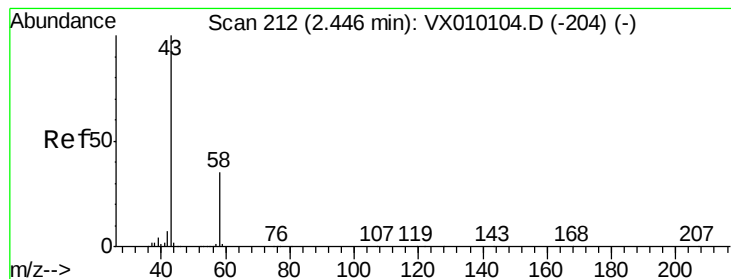
Ion Ratio Lower Upper

53 100

52 18.1 66.7 100.1#

51 19.5 28.8 43.2#





#16

Acetone

Concen: 0.595 ug/l

RT: 2.46 min Scan# 214

Delta R.T. 0.01 min

Lab File: VX010203.D

Acq: 11 Jun 2019 02:16

Instrument :

MSVOA_X

ClientSampleId :

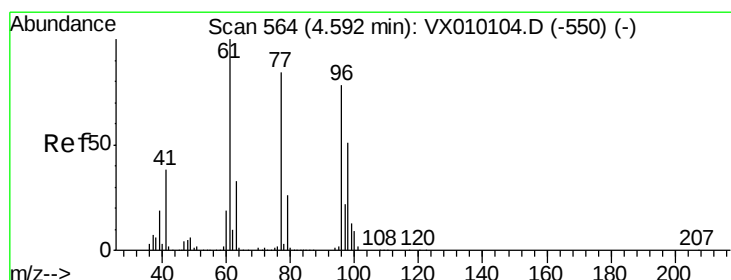
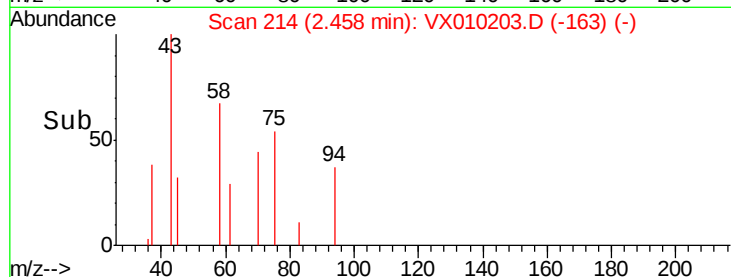
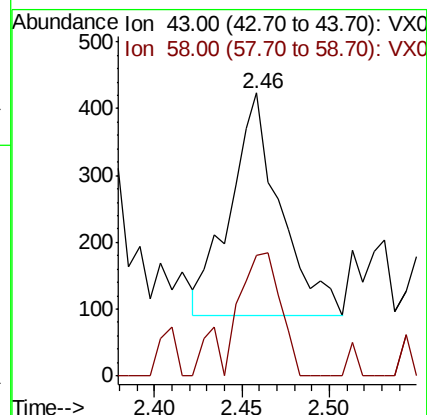
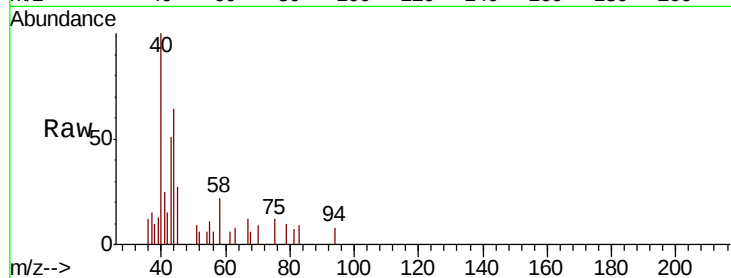
RE103D1-20190605DL

Tot Ion: 43 Resp: 664

Ion Ratio Lower Upper

43 100

58 54.4 23.2 34.8#



#27

cis-1,2-Dichloroethene

Concen: 0.304 ug/l

RT: 4.59 min Scan# 564

Delta R.T. -0.00 min

Lab File: VX010203.D

Acq: 11 Jun 2019 02:16

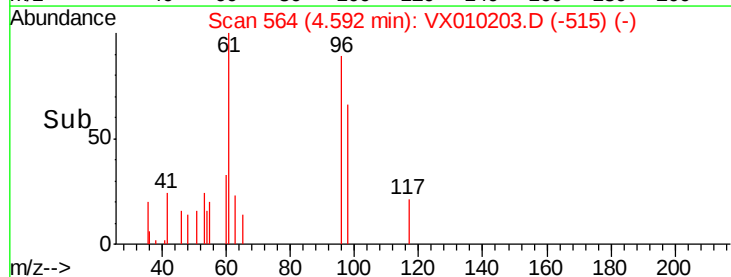
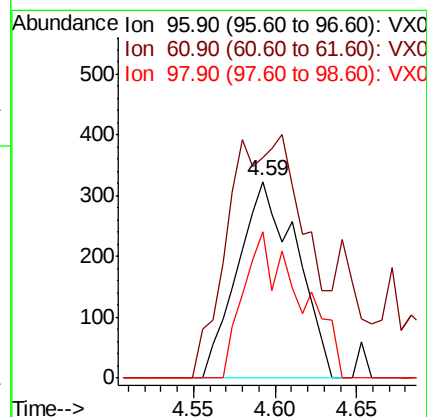
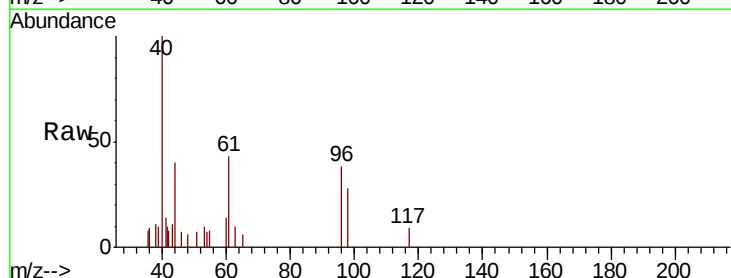
Tgt Ion: 96 Resp: 817

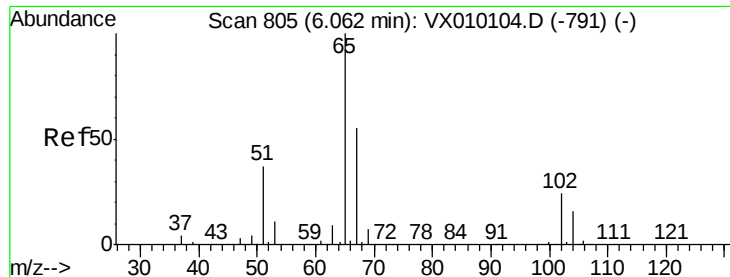
Ion Ratio Lower Upper

96 100

61 162.9 0.0 334.0

98 71.8 0.0 131.6





#33

1,2-Dichloroethane-d4

Concen: 45.323 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010203.D

Acq: 11 Jun 2019 02:16

Instrument :

MSVOA_X

ClientSampleId :

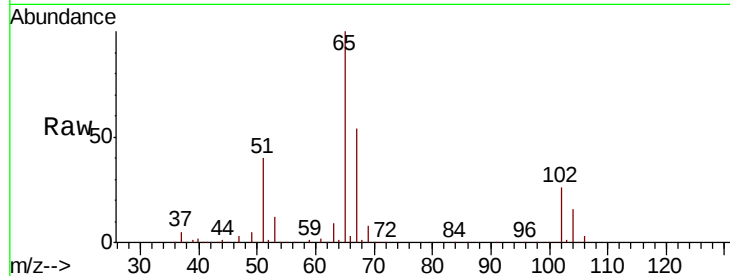
RE103D1-20190605DL

Tot Ion: 65 Resp: 107500

Ion Ratio Lower Upper

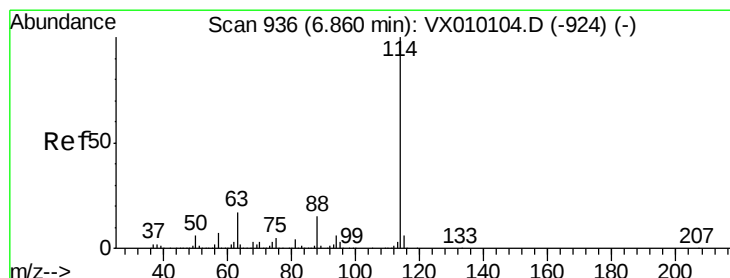
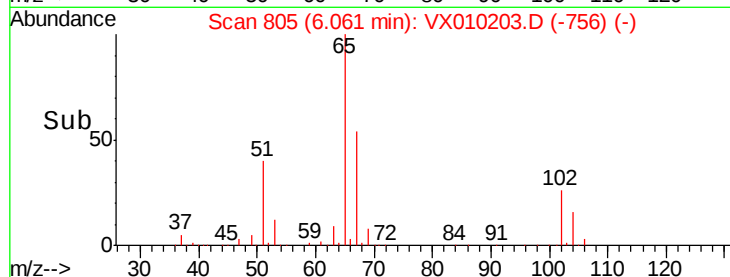
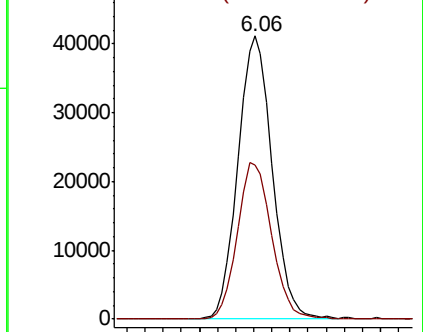
65 100

67 55.6 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX010203.D

Acq: 11 Jun 2019 02:16

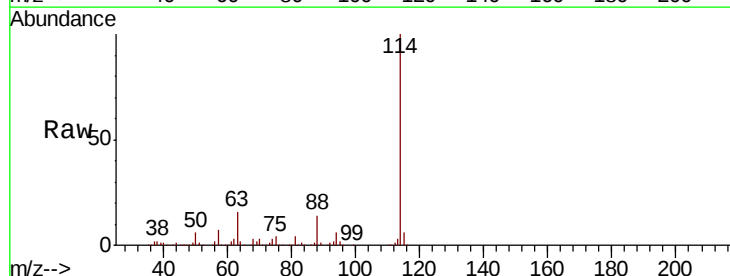
Tgt Ion: 114 Resp: 368182

Ion Ratio Lower Upper

114 100

63 16.4 0.0 47.4

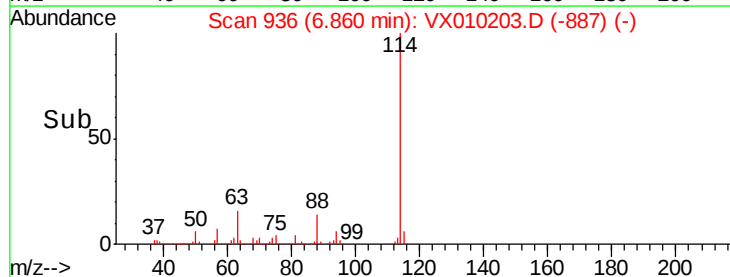
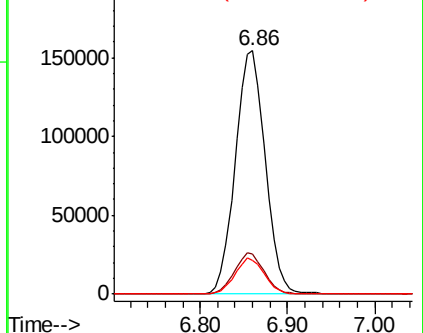
88 14.0 0.0 33.0

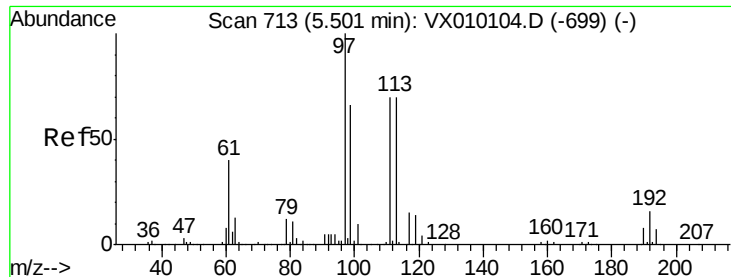


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.397 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.01 min

Lab File: VX010203.D

Acq: 11 Jun 2019 02:16

Instrument :

MSVOA_X

ClientSampleId :

RE103D1-20190605DL

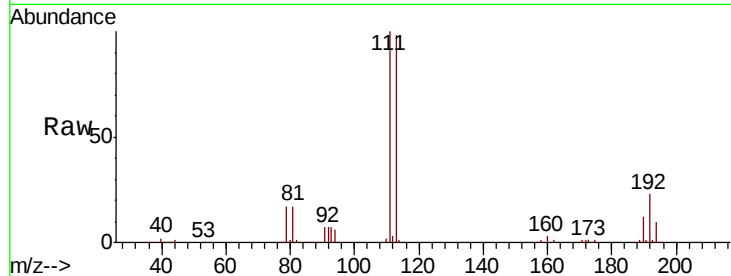
Tot Ion:113 Resp: 112183

Ion Ratio Lower Upper

113 100

111 101.8 82.2 123.2

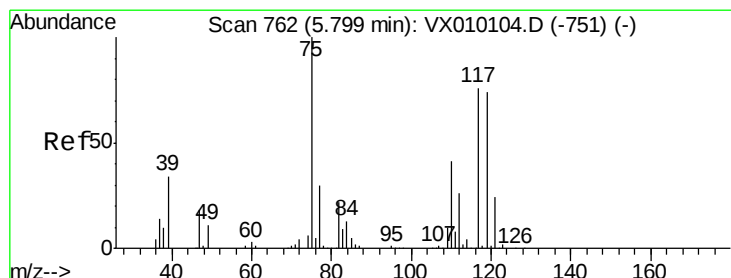
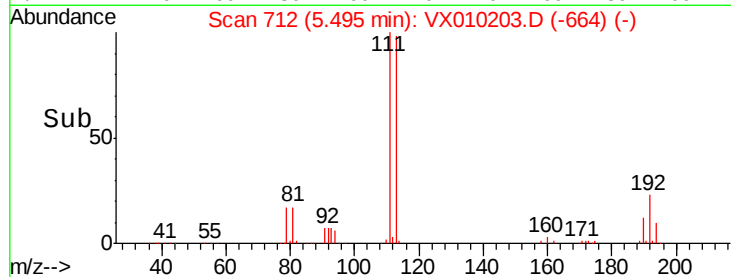
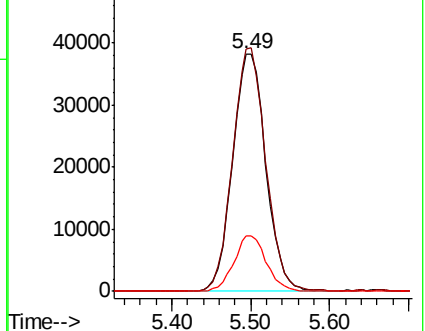
192 22.9 17.1 25.7



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: 4.892 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.15 min

Lab File: VX010203.D

Acq: 11 Jun 2019 02:16

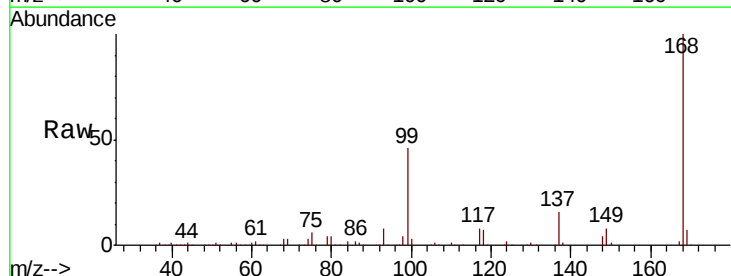
Tgt Ion: 75 Resp: 14694

Ion Ratio Lower Upper

75 100

110 0.0 16.7 50.1#

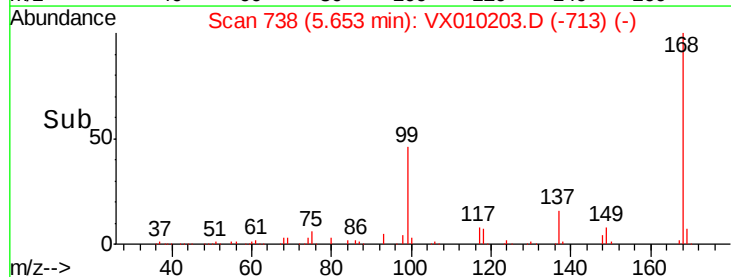
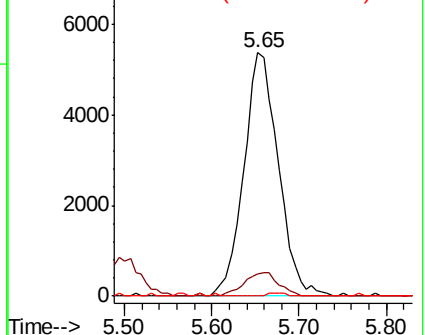
77 0.0 25.0 37.4#

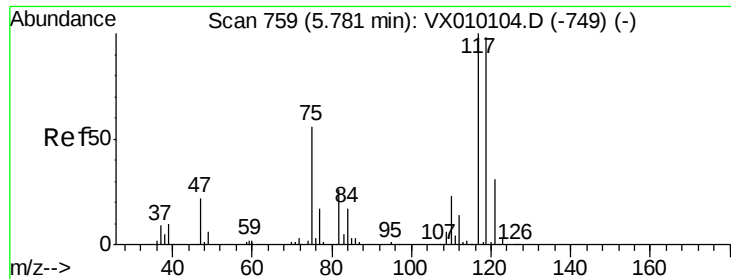


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

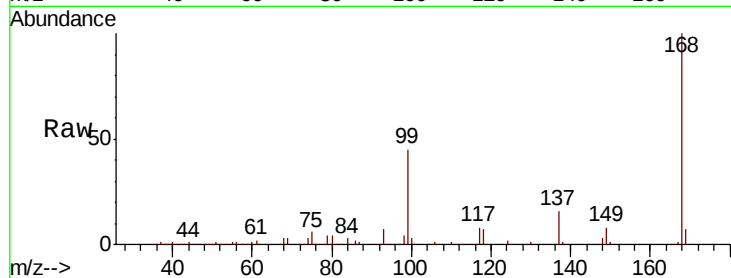




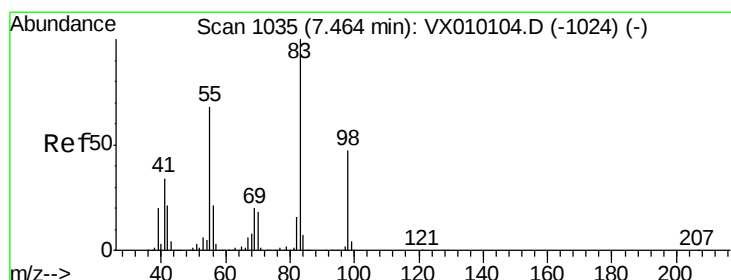
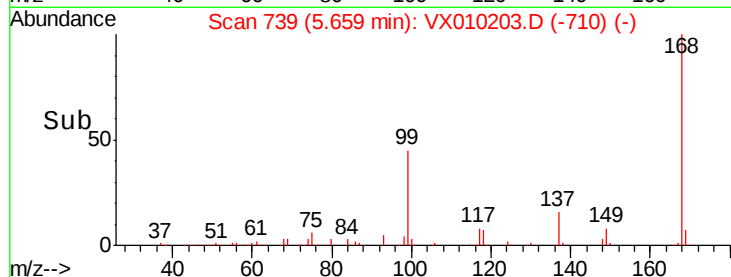
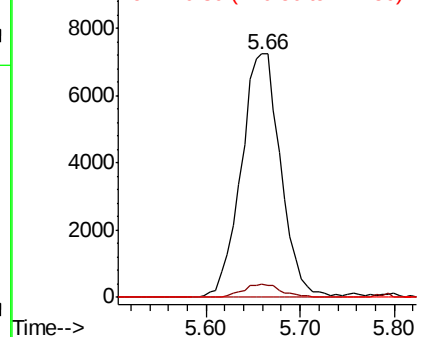
#38
Carbon Tetrachloride
Concen: 6.224 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.12 min
Lab File: VX010203.D
Acq: 11 Jun 2019 02:16

Instrument :
MSVOA_X
ClientSampleId :
RE103D1-20190605DL

Tot Ion:117 Resp: 21162
Ion Ratio Lower Upper
117 100
119 5.6 77.3 115.9#
121 0.0 25.4 38.0#

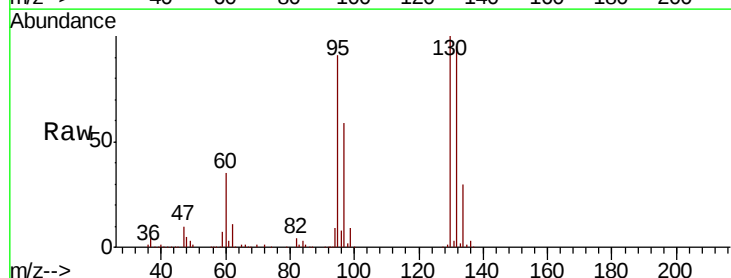


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

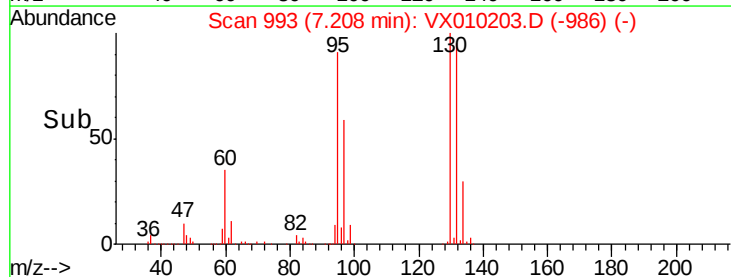
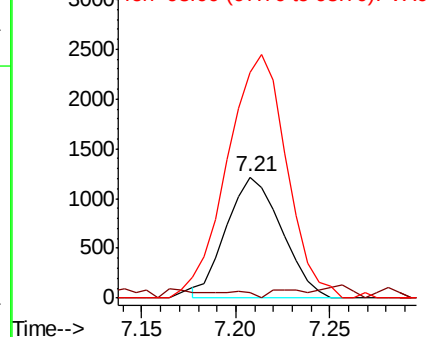


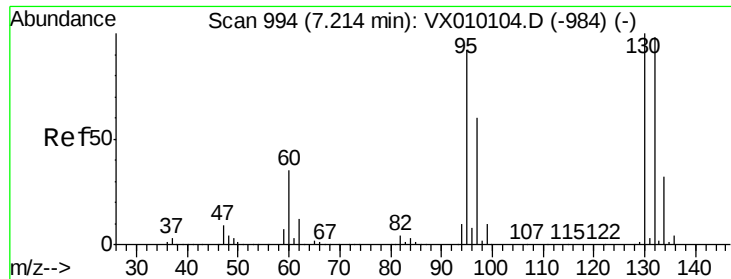
#39
Methylcyclohexane
Concen: 0.604 ug/l
RT: 7.21 min Scan# 993
Delta R.T. -0.26 min
Lab File: VX010203.D
Acq: 11 Jun 2019 02:16

Tgt Ion: 83 Resp: 2470
Ion Ratio Lower Upper
83 100
55 0.5 69.9 104.9#
98 186.2 35.1 52.7#



Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0





#44

Trichloroethene

Concen: 84.921 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX010203.D

Acq: 11 Jun 2019 02:16

Instrument :

MSVOA_X

ClientSampleId :

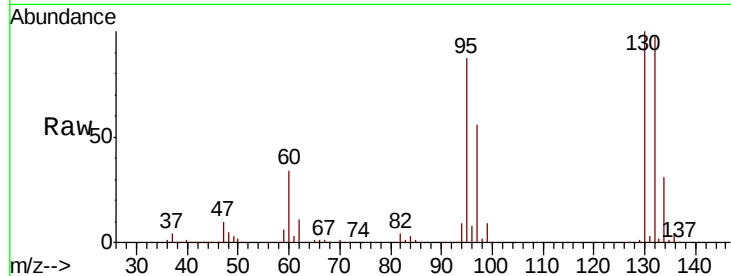
RE103D1-20190605DL

Tot Ion:130 Resp: 237761

Ion Ratio Lower Upper

130 100

95 86.5 0.0 207.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

120000

100000

80000

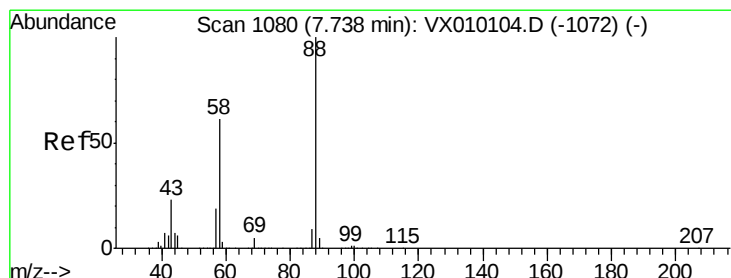
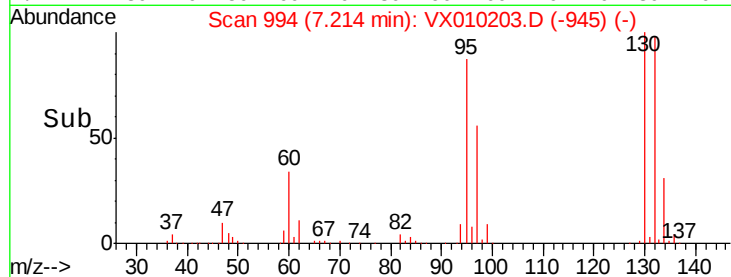
60000

40000

20000

0

Time-->



#49

1,4-Dioxane

Concen: 0.316 ug/l

RT: 7.74 min Scan# 1081

Delta R.T. 0.01 min

Lab File: VX010203.D

Acq: 11 Jun 2019 02:16

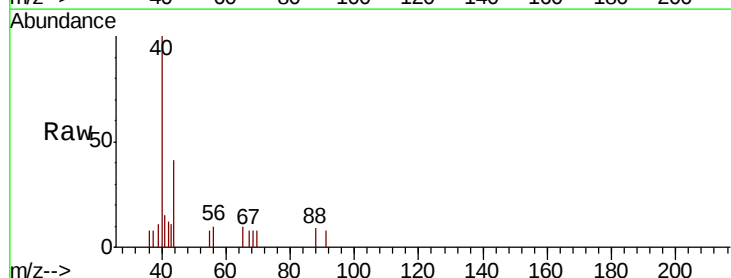
Tgt Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 500.0 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

250

200

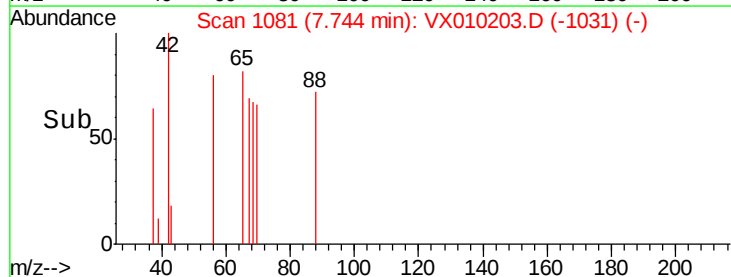
150

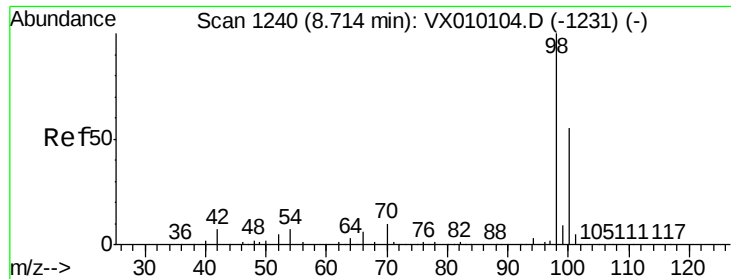
100

50

0

Time-->





#50

Toluene-d8

Concen: 50.833 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010203.D

Acq: 11 Jun 2019 02:16

Instrument :

MSVOA_X

ClientSampleId :

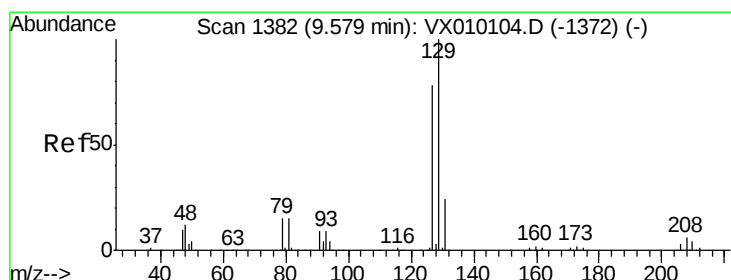
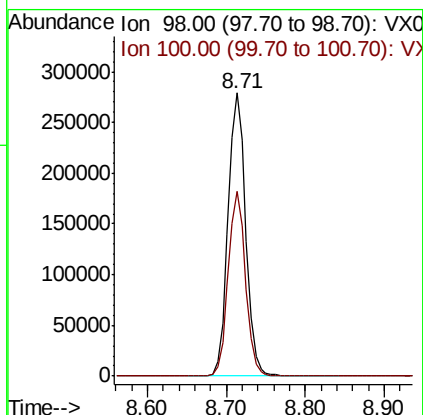
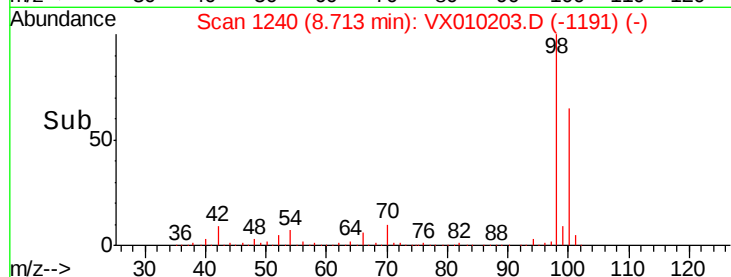
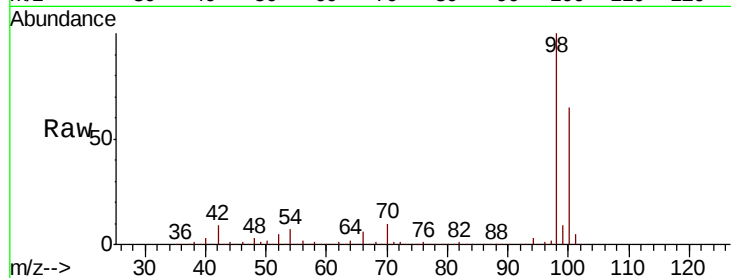
RE103D1-20190605DL

Tot Ion: 98 Resp: 432661

Ion Ratio Lower Upper

98 100

100 64.2 51.5 77.3



#60

Dibromochloromethane

Concen: 0.452 ug/l

RT: 9.33 min Scan# 1341

Delta R.T. -0.25 min

Lab File: VX010203.D

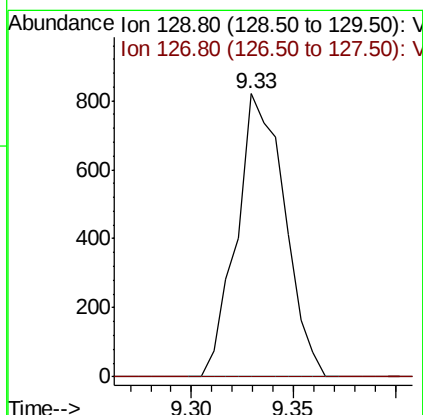
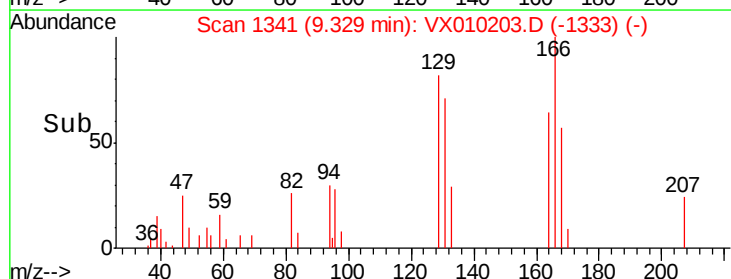
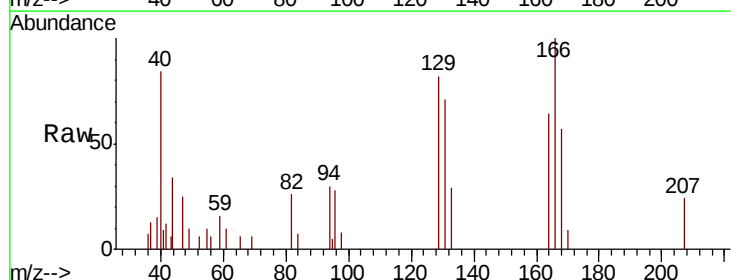
Acq: 11 Jun 2019 02:16

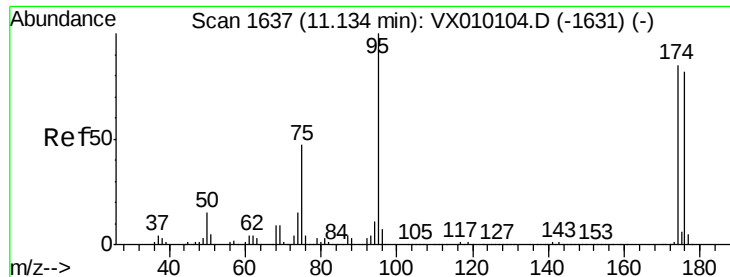
Tgt Ion:129 Resp: 1338

Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.5#





#62

4-Bromofluorobenzene

Concen: 46.983 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010203.D

Acq: 11 Jun 2019 02:16

Instrument :

MSVOA_X

ClientSampleId :

RE103D1-20190605DL

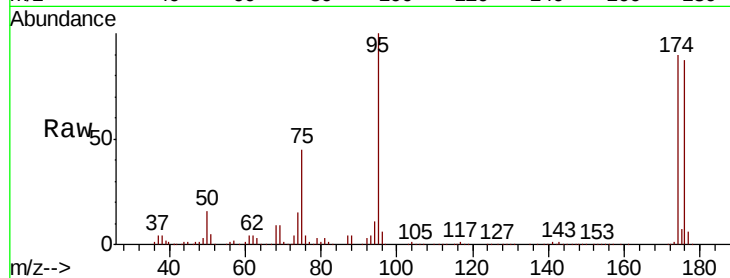
Tot Ion: 95 Resp: 149343

Ion Ratio Lower Upper

95 100

174 95.2 0.0 160.4

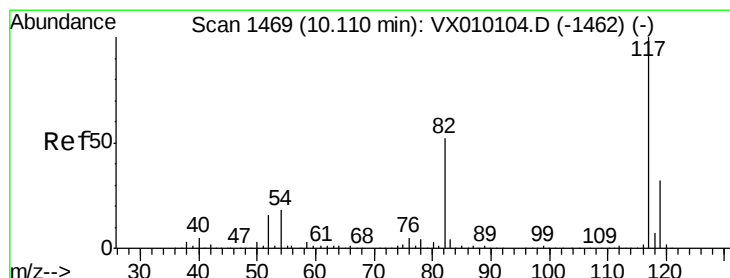
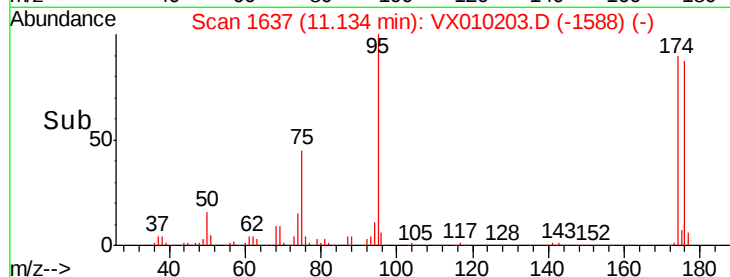
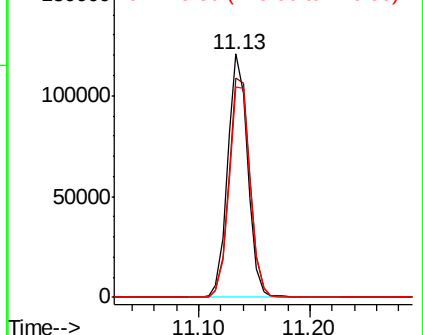
176 91.8 0.0 154.6



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: VX010203.D

Acq: 11 Jun 2019 02:16

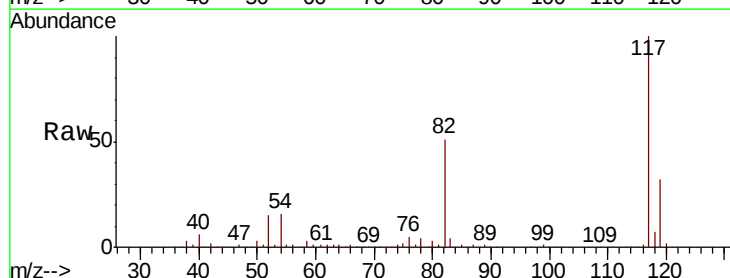
Tgt Ion: 117 Resp: 333485

Ion Ratio Lower Upper

117 100

82 50.7 49.2 73.8

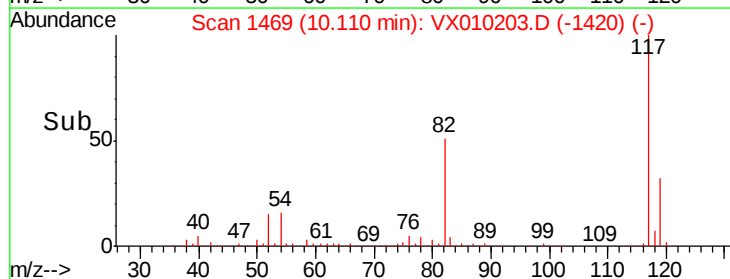
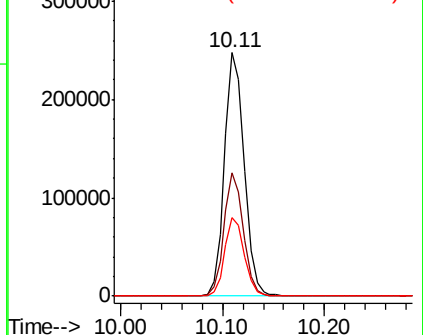
119 32.3 25.2 37.8

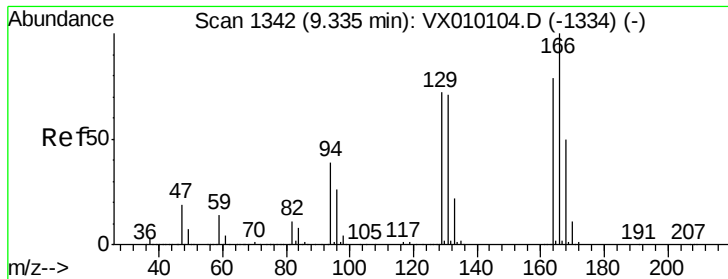


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 0.531 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX010203.D

Acq: 11 Jun 2019 02:16

Instrument :

MSVOA_X

ClientSampleId :

RE103D1-20190605DL

Tot Ion:164 Resp: 1315

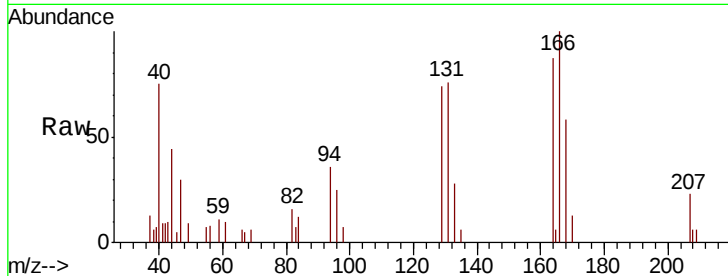
Ion Ratio Lower Upper

164 100

166 114.7 105.0 157.4

129 84.5 75.1 112.7

131 87.7 72.2 108.4

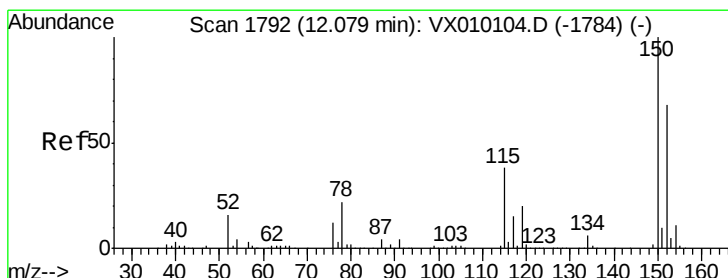
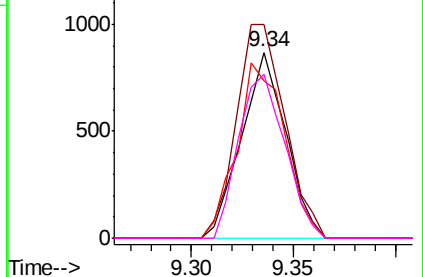
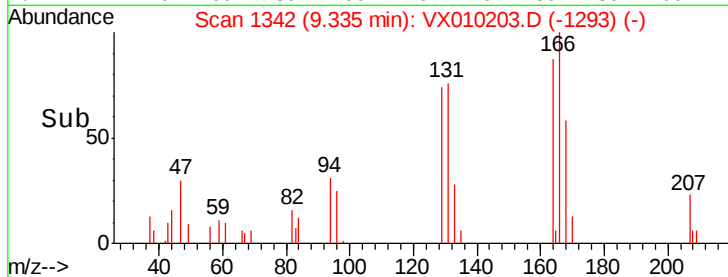


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): 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: VX010203.D

Acq: 11 Jun 2019 02:16

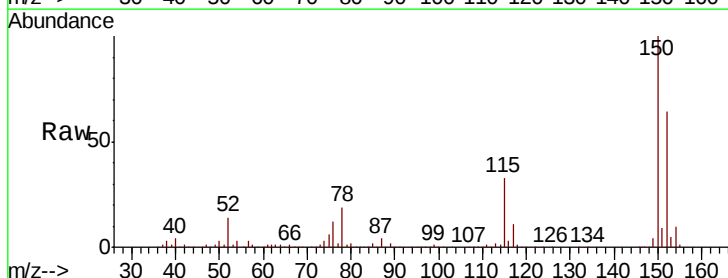
Tgt Ion:152 Resp: 156565

Ion Ratio Lower Upper

152 100

115 54.2 41.4 124.2

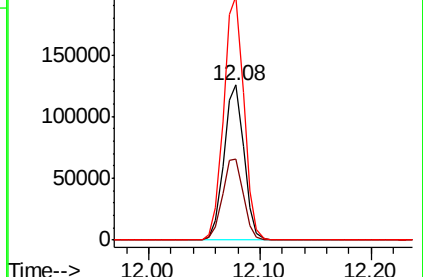
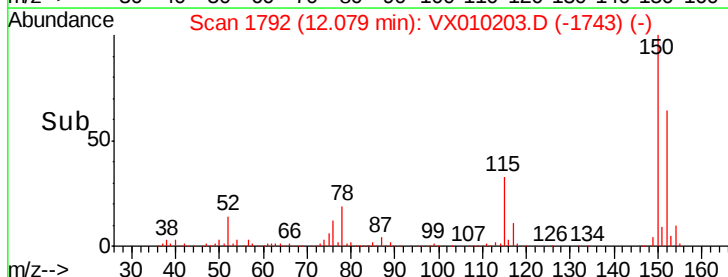
150 158.3 0.0 345.2

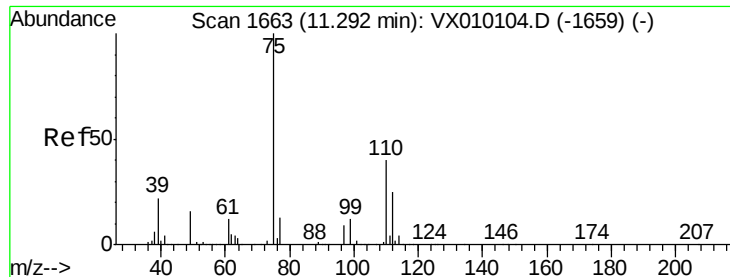


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.395 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010203.D

Acq: 11 Jun 2019 02:16

Instrument :

MSVOA_X

ClientSampleId :

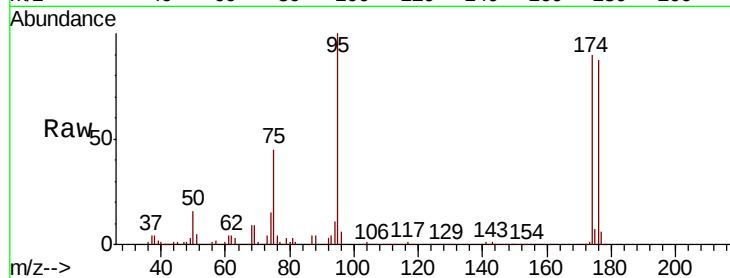
RE103D1-20190605DL

Tot Ion: 75 Resp: 67002

Ion Ratio Lower Upper

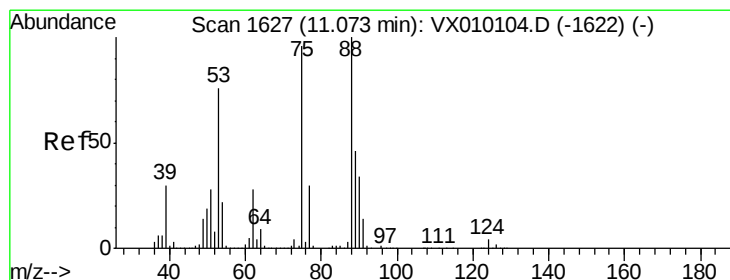
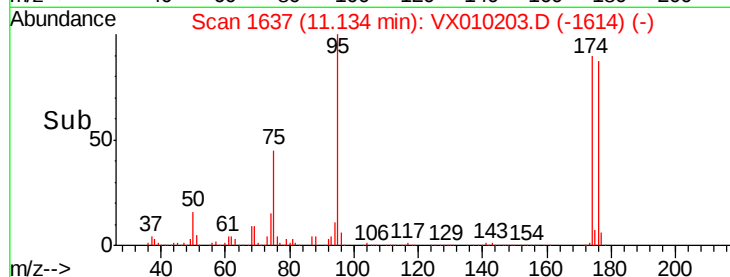
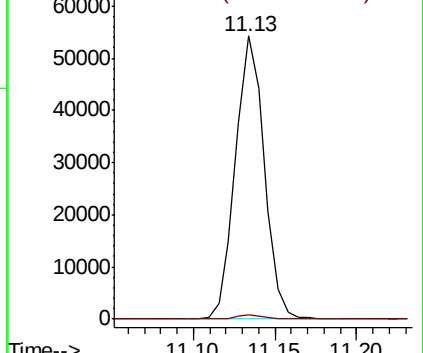
75 100

77 1.4 22.1 66.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 47.272 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010203.D

Acq: 11 Jun 2019 02:16

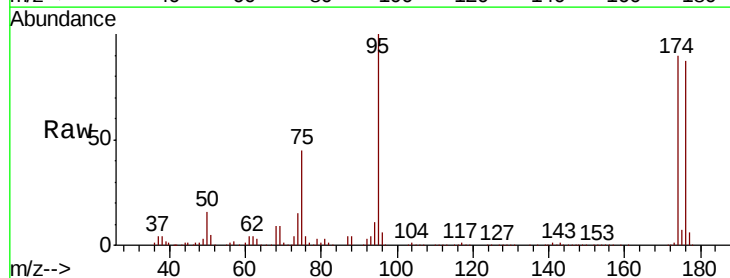
Tgt Ion: 75 Resp: 67002

Ion Ratio Lower Upper

75 100

53 0.1 79.8 119.6#

89 0.0 34.2 51.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

