

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061119\
 Data File : VX010223.D
 Acq On : 11 Jun 2019 11:35
 Operator : JC/SP
 Sample : K3257-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE120D3-20190606

Quant Time: Jun 12 07:47:08 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	252271	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	380067	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	340156	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	159551	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	111532	45.29	ug/l	0.00
Spiked Amount			Recovery	=	90.58%	
35) Dibromofluoromethane	5.49	113	116337	49.62	ug/l	0.00
Spiked Amount			Recovery	=	99.24%	
50) Toluene-d8	8.71	98	442630	50.38	ug/l	0.00
Spiked Amount			Recovery	=	100.76%	
62) 4-Bromofluorobenzene	11.13	95	150616	45.90	ug/l	0.00
Spiked Amount			Recovery	=	91.80%	

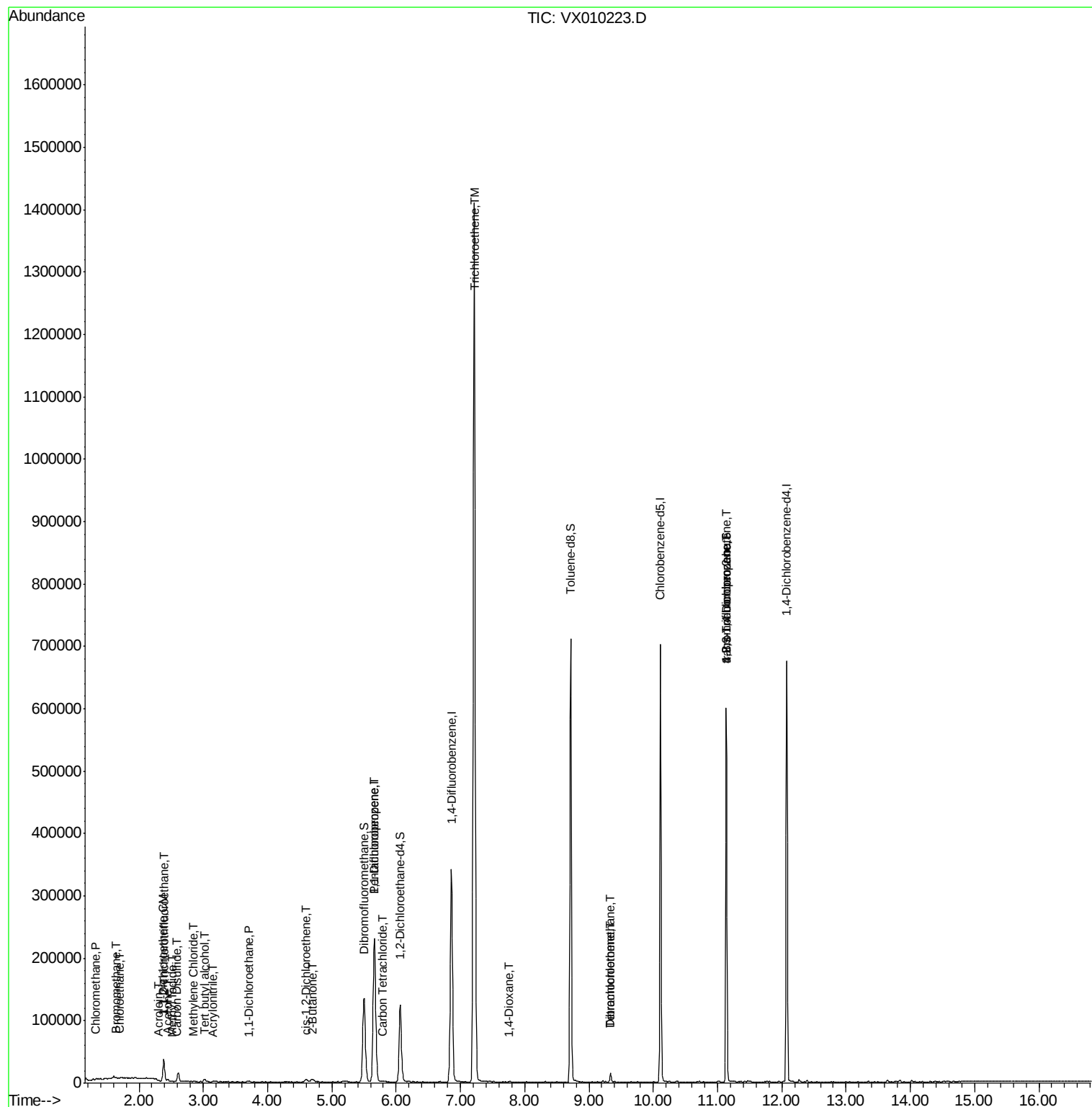
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	781	0.339	ug/l	99
5) Bromomethane	1.65	94	569	0.696	ug/l #	49
6) Chloroethane	1.70	64	820	0.751	ug/l #	44
9) 1,1,2-Trichlorotrifluoroet	2.39	101	11729	5.287	ug/l	91
10) Methyl Iodide	2.52	142	727	0.212	ug/l #	89
11) Tert butyl alcohol	3.02	59	2592	4.297	ug/l #	83
12) 1,1-Dichloroethene	2.37	96	2864	1.264	ug/l #	74
13) Acrolein	2.30	56	177	1.609	ug/l #	14
15) Acrylonitrile	3.14	53	337	0.273	ug/l #	21
16) Acetone	2.45	43	3363	2.904	ug/l	90
17) Carbon Disulfide	2.57	76	1589	0.243	ug/l #	71
20) Methylene Chloride	2.85	84	549	0.216	ug/l #	63
24) 1,1-Dichloroethane	3.70	63	1067	0.269	ug/l #	85
25) 2-Butanone	4.70	43	920	0.533	ug/l	93
27) cis-1,2-Dichloroethene	4.60	96	2807	1.006	ug/l	76
36) 1,1-Dichloropropene	5.66	75	14442	4.658	ug/l #	51
38) Carbon Tetrachloride	5.79	117	839	0.239	ug/l	88
44) Trichloroethene	7.21	130	575427	199.099	ug/l	87
49) 1,4-Dioxane	7.75	88	436	6.062	ug/l #	87
60) Dibromochloromethane	9.34	129	2509	0.822	ug/l #	11
64) Tetrachloroethene	9.34	164	2847	1.127	ug/l	90
76) 1,2,3-Trichloropropane	11.13	75	69452	21.763	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	69452	48.083	ug/l #	10

(#) = 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: VX010223.D

Acq: 11 Jun 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

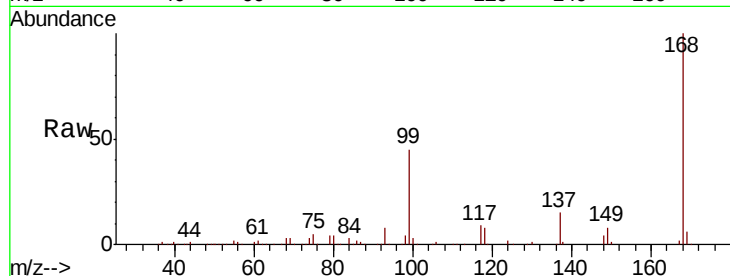
RE120D3-20190606

Tot Ion:168 Resp: 252271

Ion Ratio Lower Upper

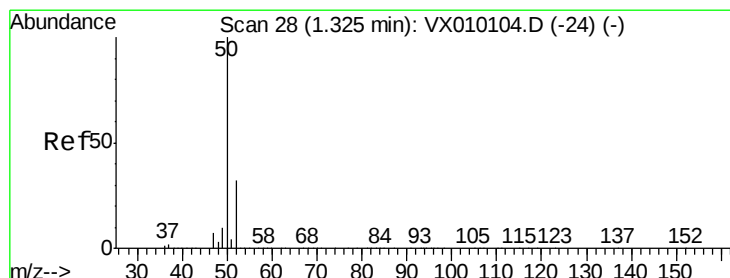
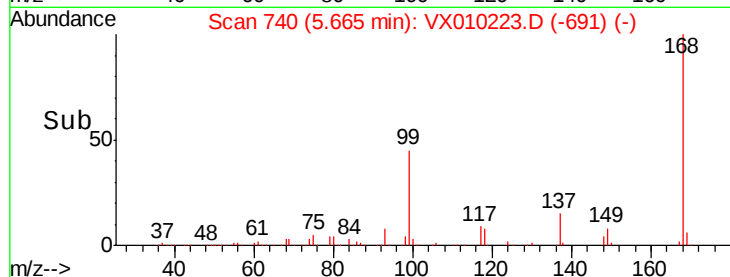
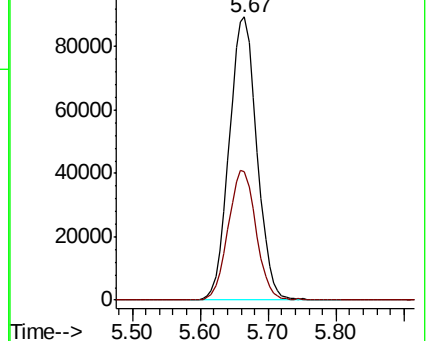
168 100

99 45.4 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.339 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX010223.D

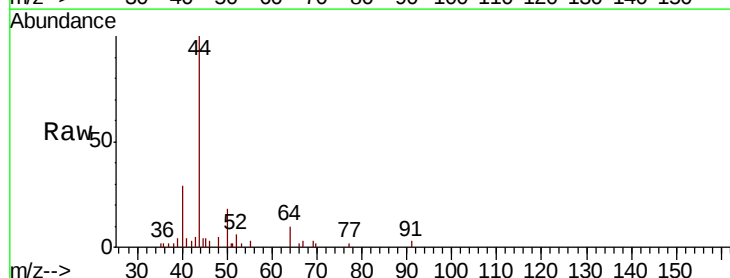
Acq: 11 Jun 2019 11:35

Tgt Ion: 50 Resp: 781

Ion Ratio Lower Upper

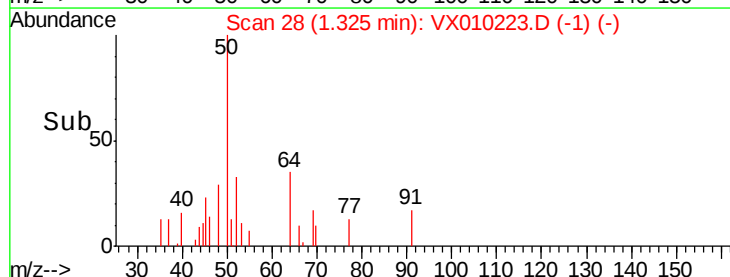
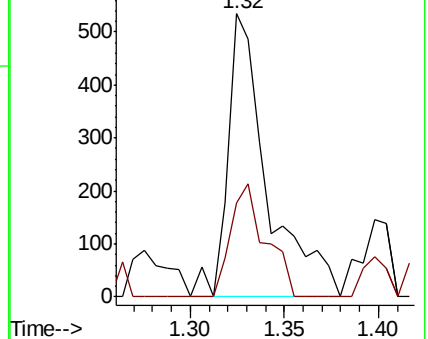
50 100

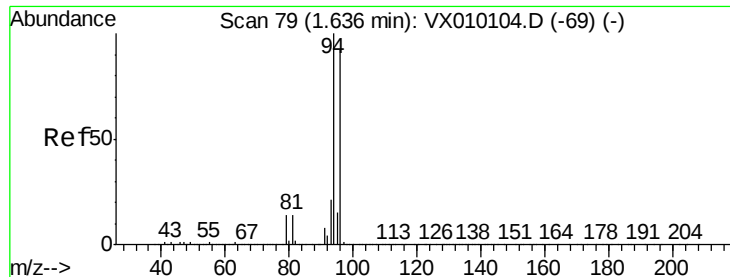
52 33.3 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.696 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010223.D

Acq: 11 Jun 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

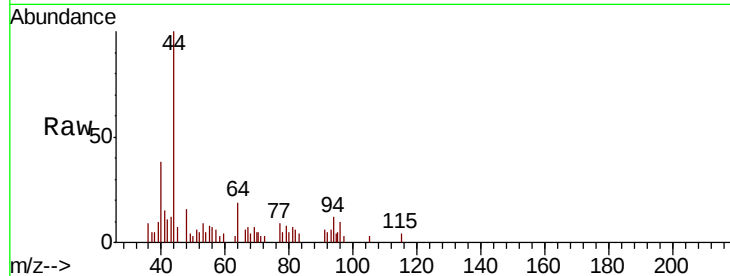
RE120D3-20190606

Tot Ion: 94 Resp: 569

Ion Ratio Lower Upper

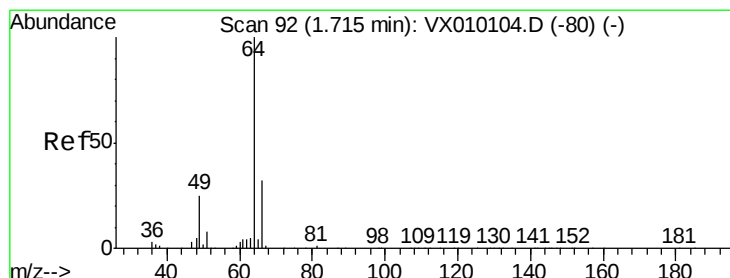
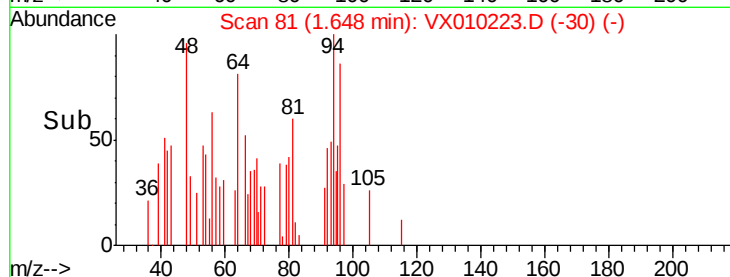
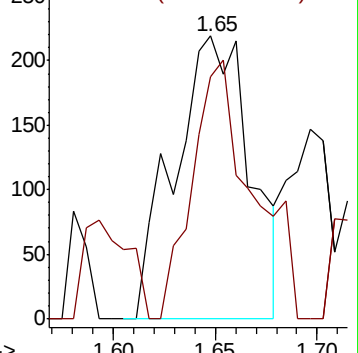
94 100

96 45.4 76.2 114.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.751 ug/l

RT: 1.70 min Scan# 89

Delta R.T. -0.02 min

Lab File: VX010223.D

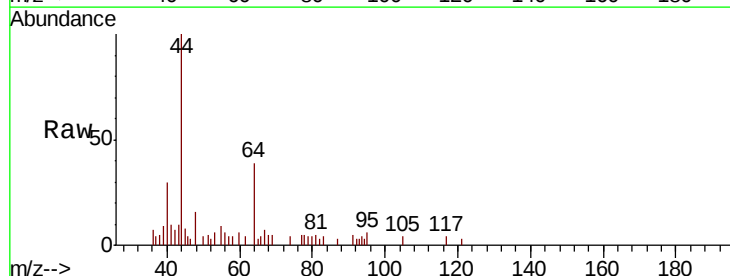
Acq: 11 Jun 2019 11:35

Tgt Ion: 64 Resp: 820

Ion Ratio Lower Upper

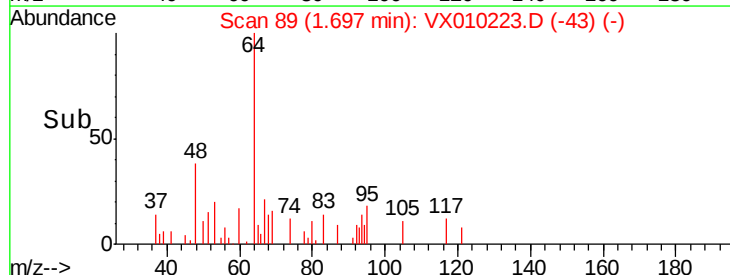
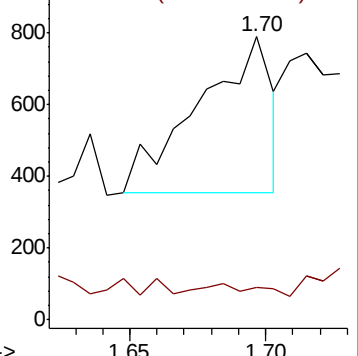
64 100

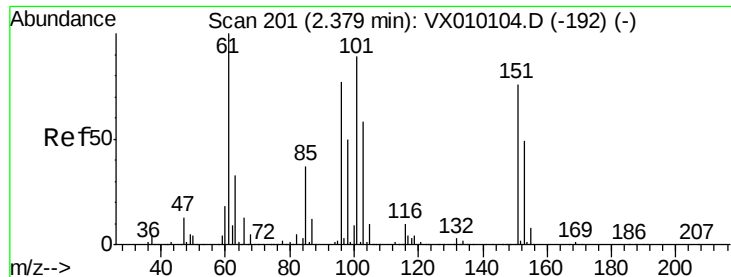
66 0.7 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.287 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.01 min

Lab File: VX010223.D

Acq: 11 Jun 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

RE120D3-20190606

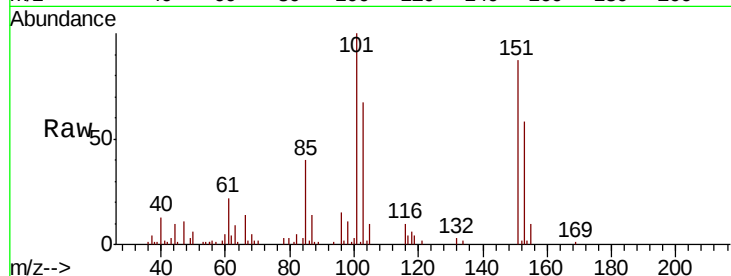
Tot Ion:101 Resp: 11729

Ion Ratio Lower Upper

101 100

85 44.7 35.2 52.8

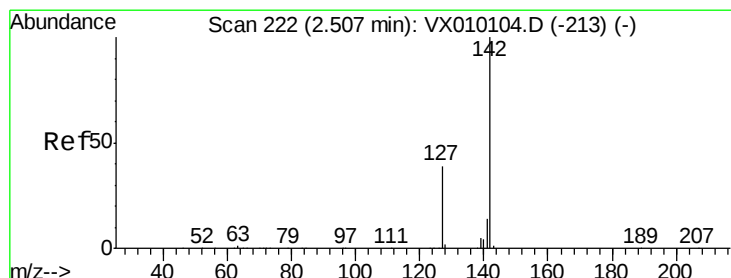
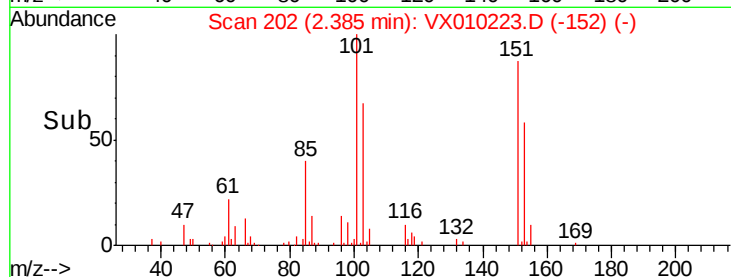
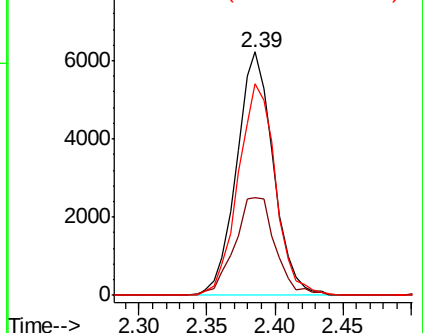
151 88.7 61.9 92.9



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 0.212 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX010223.D

Acq: 11 Jun 2019 11:35

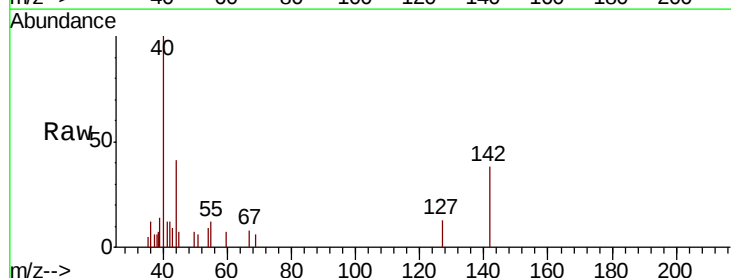
Tgt Ion:142 Resp: 727

Ion Ratio Lower Upper

142 100

127 35.6 33.0 49.4

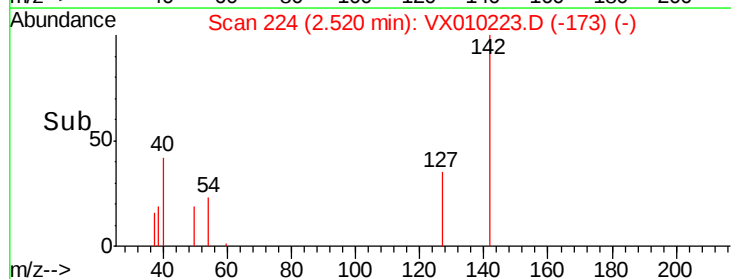
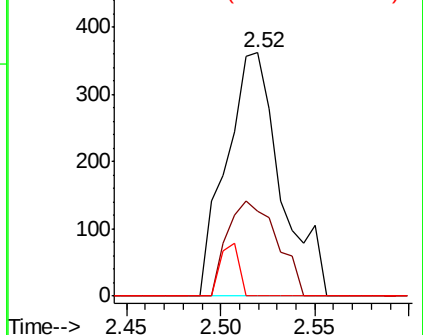
141 7.3 11.4 17.0#

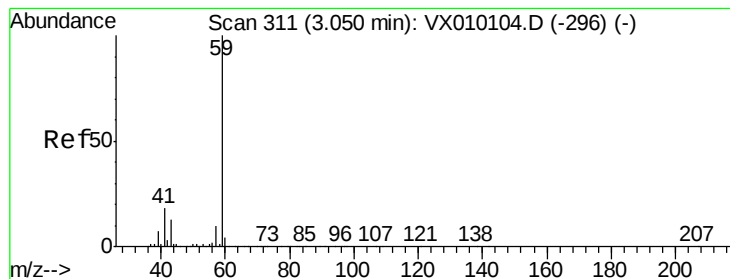


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



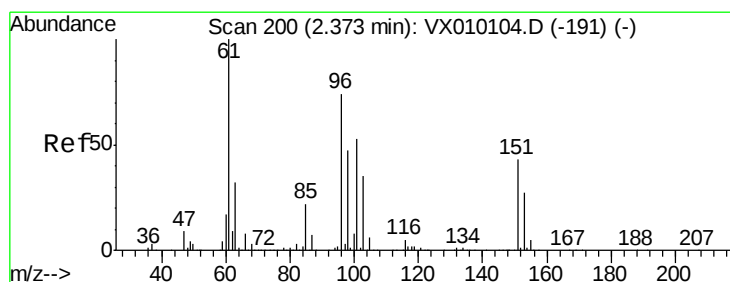
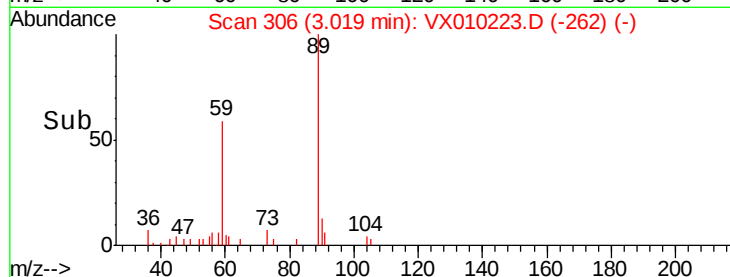
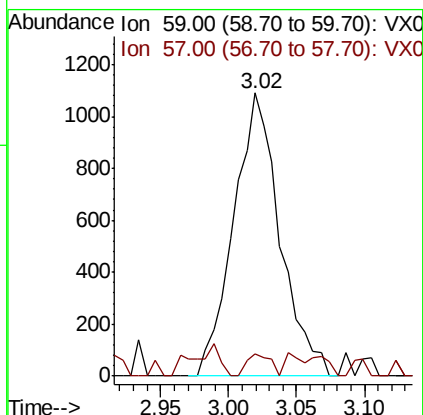
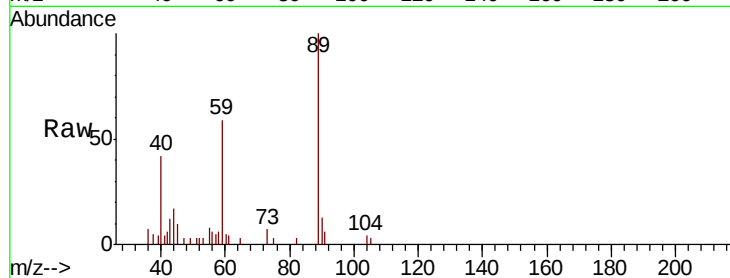


#11

Tert butyl alcohol
Concen: 4.297 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX010223.D
Acq: 11 Jun 2019 11:35

Instrument :
MSVOA_X
ClientSampleId :
RE120D3-20190606

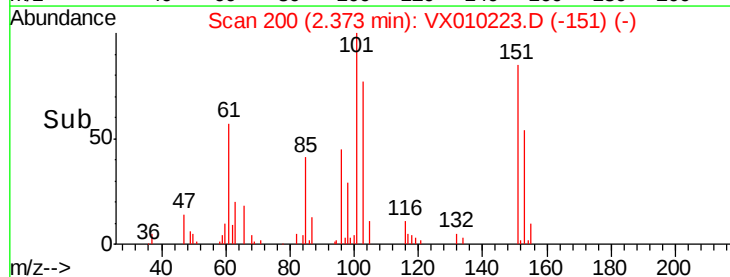
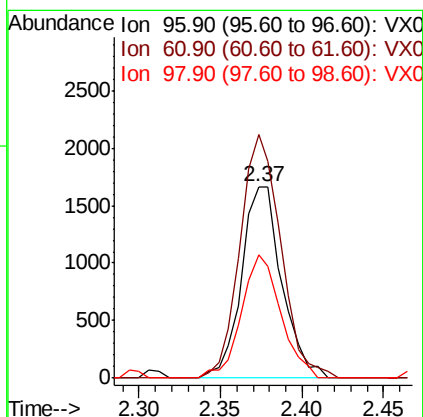
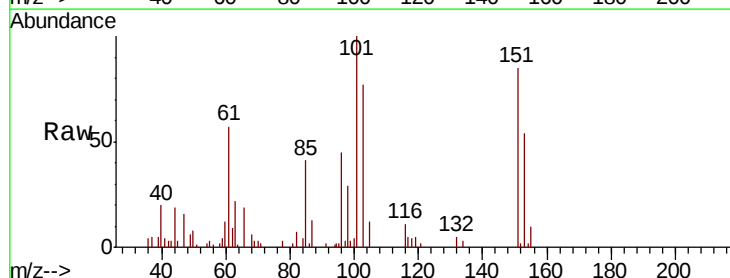
Tot Ion: 59 Resp: 2592
Ion Ratio Lower Upper
59 100
57 4.0 8.2 12.2#

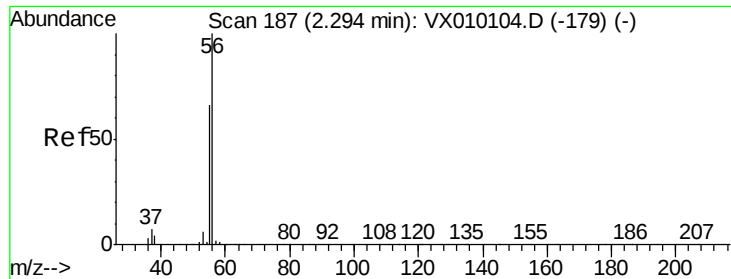


#12

1,1-Dichloroethene
Concen: 1.264 ug/l
RT: 2.37 min Scan# 200
Delta R.T. 0.00 min
Lab File: VX010223.D
Acq: 11 Jun 2019 11:35

Tgt Ion: 96 Resp: 2864
Ion Ratio Lower Upper
96 100
61 127.3 140.7 211.1#
98 64.5 50.1 75.1

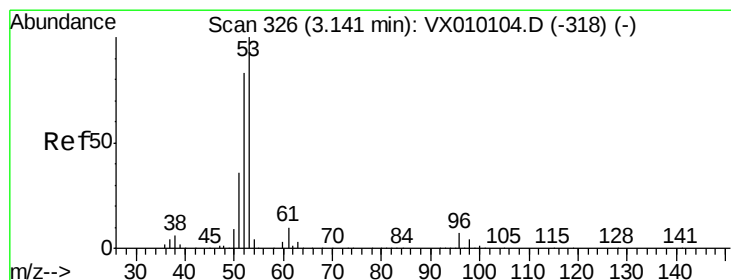
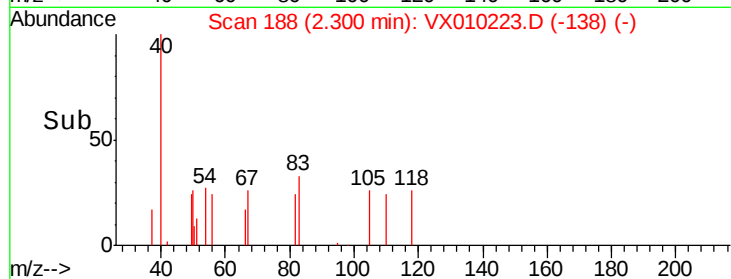
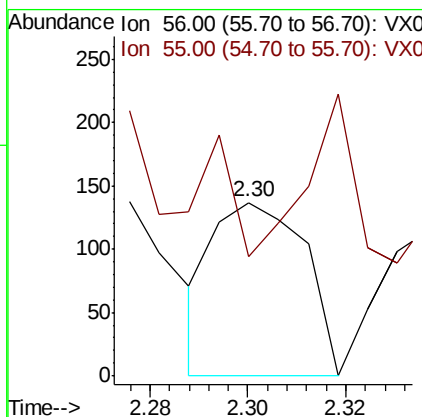
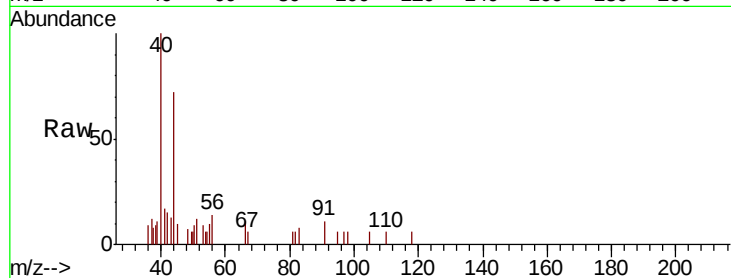




#13
Acrolein
Concen: 1.609 ug/l
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX010223.D
Acq: 11 Jun 2019 11:35

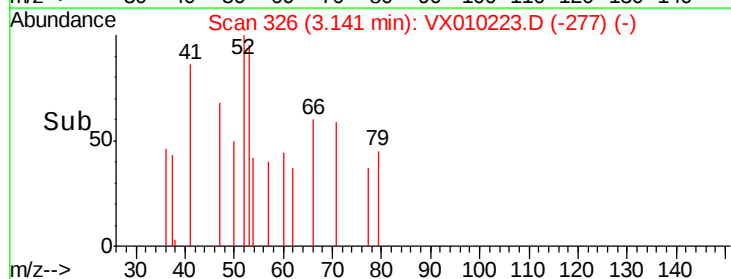
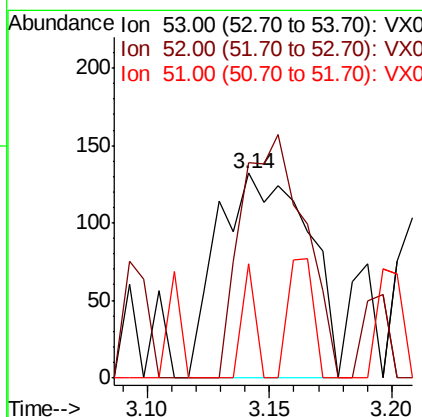
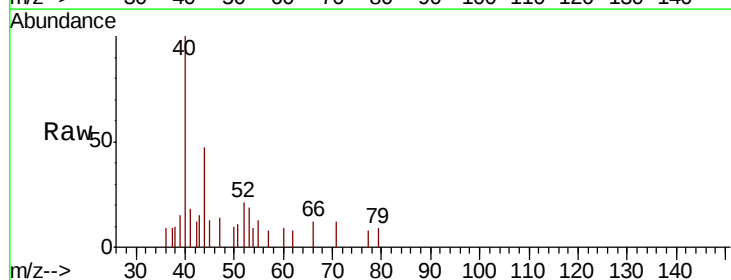
Instrument :
MSVOA_X
ClientSampleId :
RE120D3-20190606

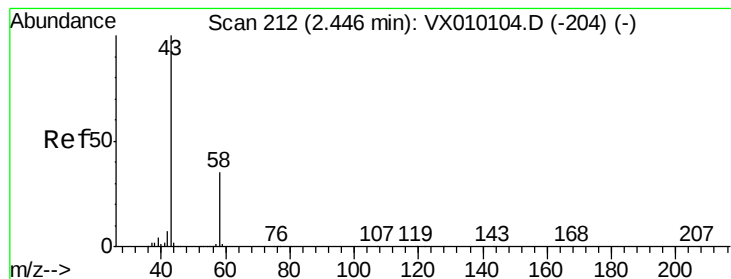
Tot Ion: 56 Resp: 177
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.4#



#15
Acrylonitrile
Concen: 0.273 ug/l
RT: 3.14 min Scan# 326
Delta R.T. 0.00 min
Lab File: VX010223.D
Acq: 11 Jun 2019 11:35

Tgt Ion: 53 Resp: 337
Ion Ratio Lower Upper
53 100
52 0.0 66.7 100.1#
51 8.0 28.8 43.2#





#16

Acetone

Concen: 2.904 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010223.D

Acq: 11 Jun 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

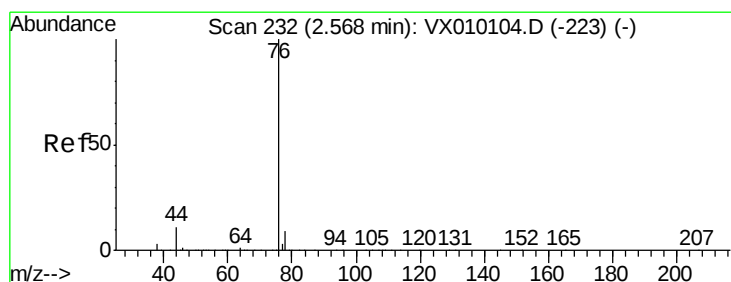
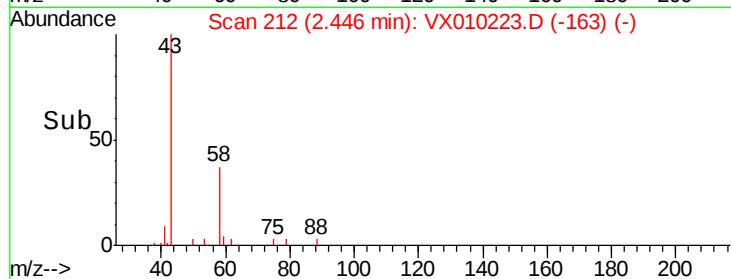
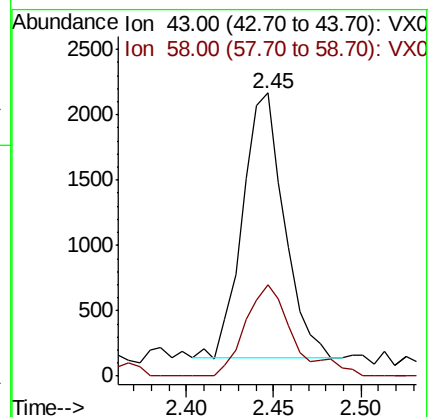
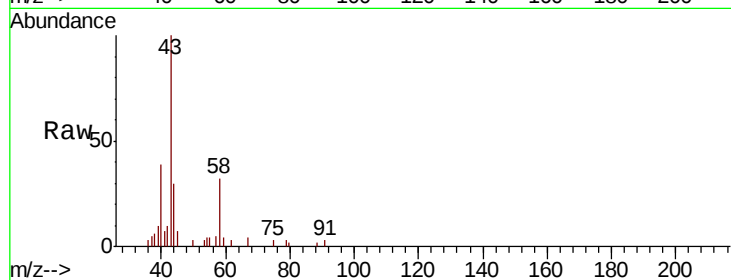
RE120D3-20190606

Tot Ion: 43 Resp: 3363

Ion Ratio Lower Upper

43 100

58 34.5 23.2 34.8



#17

Carbon Disulfide

Concen: 0.243 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX010223.D

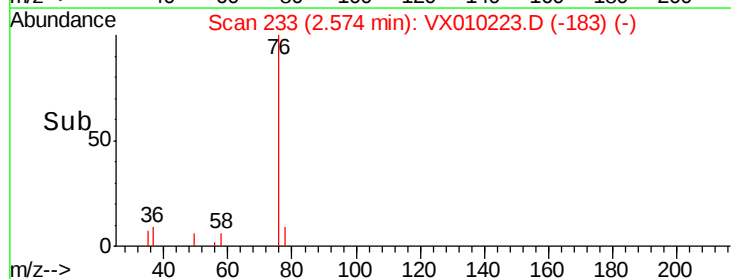
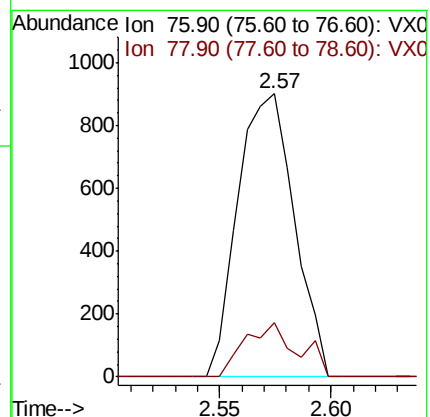
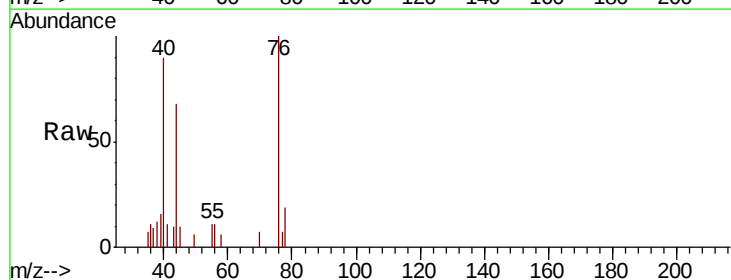
Acq: 11 Jun 2019 11:35

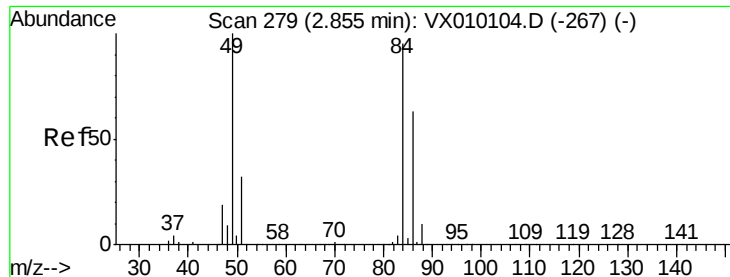
Tgt Ion: 76 Resp: 1589

Ion Ratio Lower Upper

76 100

78 19.1 7.0 10.6#

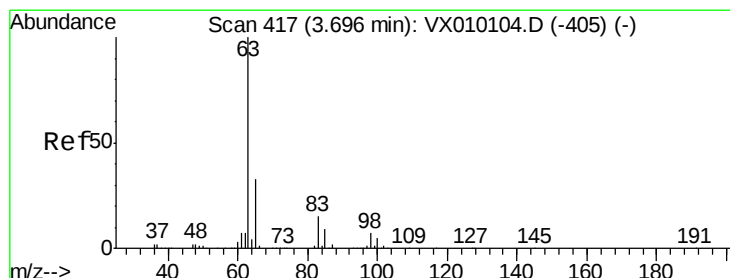
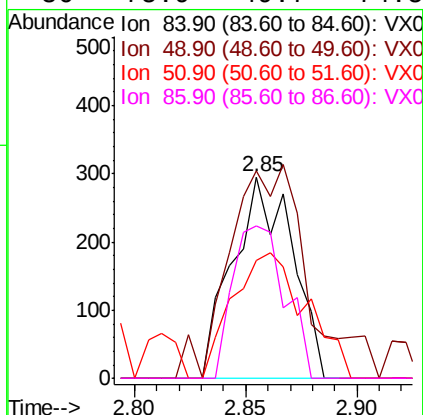
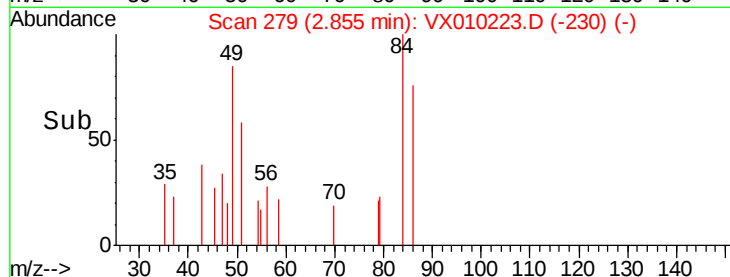
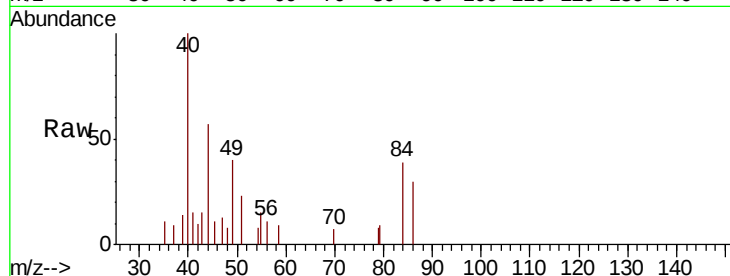




#20
Methvlene Chloride
Concen: 0.216 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX010223.D
Acq: 11 Jun 2019 11:35

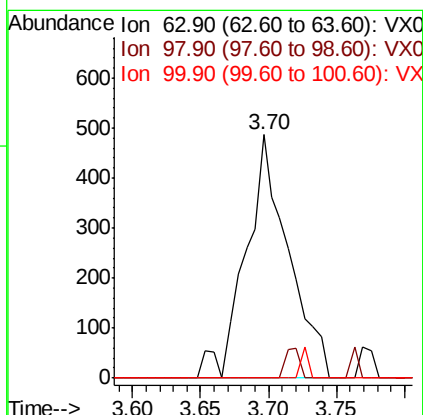
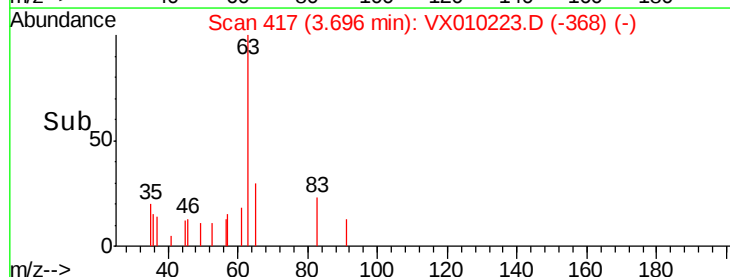
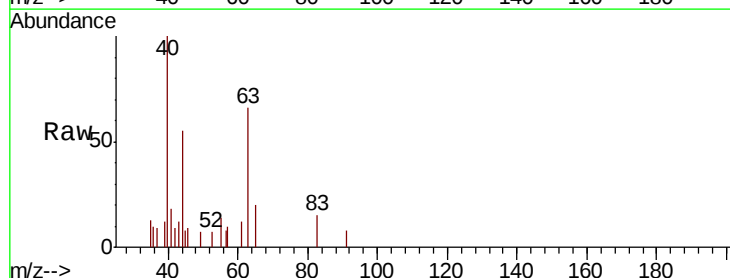
Instrument :
MSVOA_X
ClientSampleId :
RE120D3-20190606

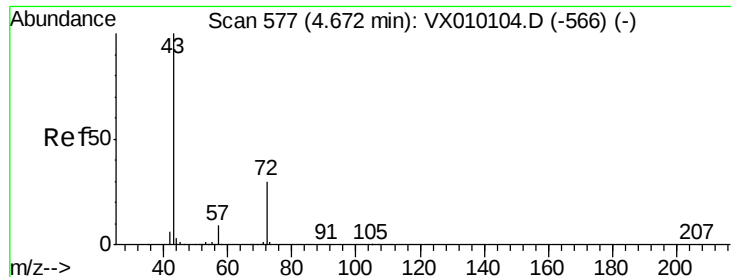
Tot Ion: 84 Resp: 549
Ion Ratio Lower Upper
84 100
49 83.1 115.8 173.6#
51 58.3 34.4 51.6#
86 75.9 49.7 74.5#



#24
1,1-Dichloroethane
Concen: 0.269 ug/l
RT: 3.70 min Scan# 417
Delta R.T. 0.00 min
Lab File: VX010223.D
Acq: 11 Jun 2019 11:35

Tgt Ion: 63 Resp: 1067
Ion Ratio Lower Upper
63 100
98 0.0 2.9 8.8#
100 0.0 1.8 5.4#





#25

2-Butanone

Concen: 0.533 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.03 min

Lab File: VX010223.D

Acq: 11 Jun 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

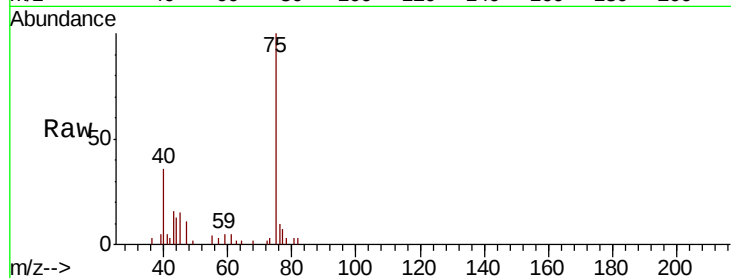
RE120D3-20190606

Tot Ion: 43 Resp: 920

Ion Ratio Lower Upper

43 100

72 18.8 17.5 26.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.70

400

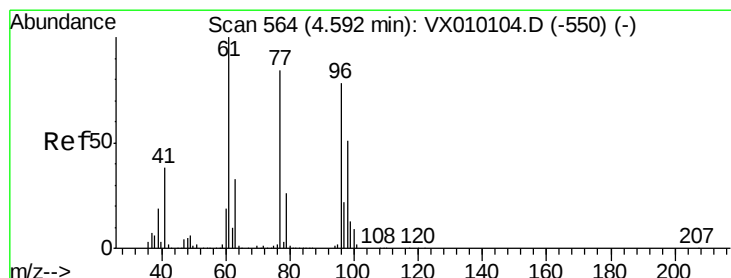
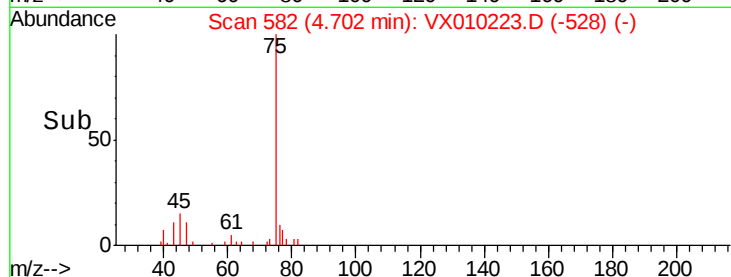
300

200

100

0

Time-->



#27

cis-1,2-Dichloroethene

Concen: 1.006 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.01 min

Lab File: VX010223.D

Acq: 11 Jun 2019 11:35

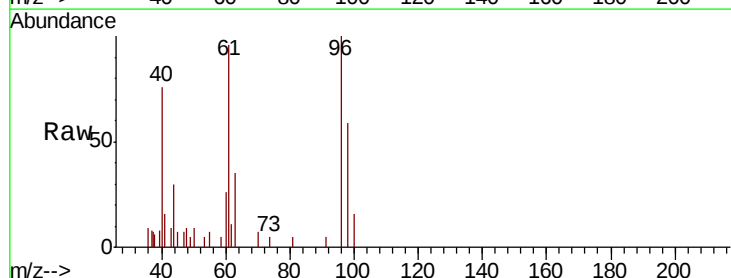
Tgt Ion: 96 Resp: 2807

Ion Ratio Lower Upper

96 100

61 124.1 0.0 334.0

98 69.0 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

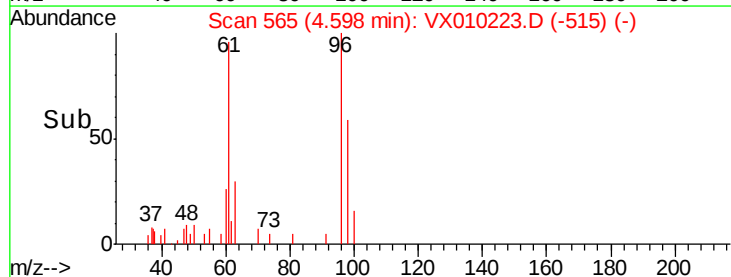
1500

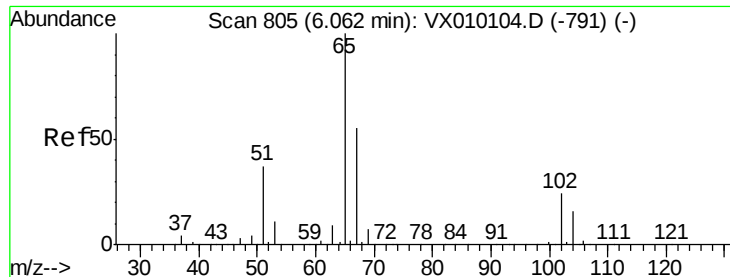
1000

500

0

Time-->





#33

1,2-Dichloroethane-d4

Concen: 45.293 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010223.D

Acq: 11 Jun 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

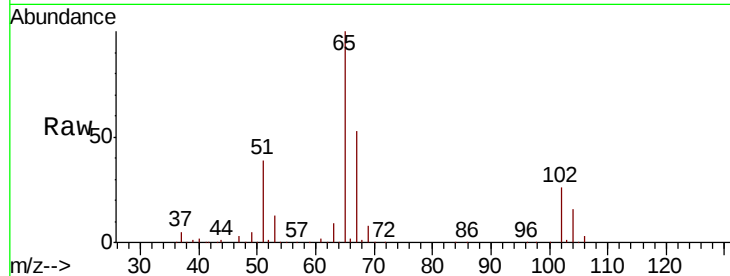
RE120D3-20190606

Tot Ion: 65 Resp: 111532

Ion Ratio Lower Upper

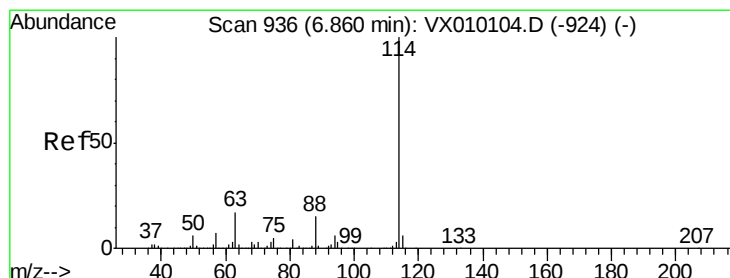
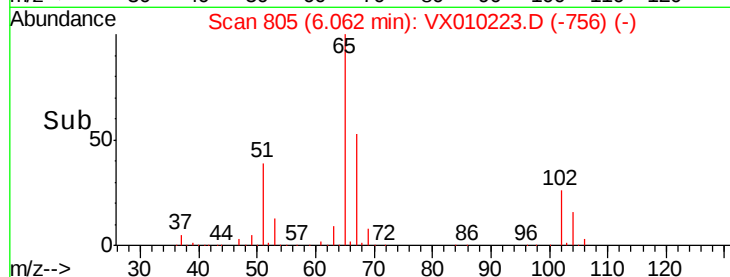
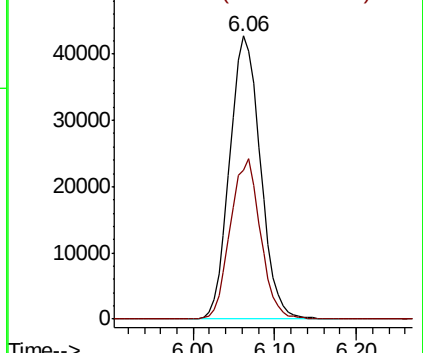
65 100

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: VX010223.D

Acq: 11 Jun 2019 11:35

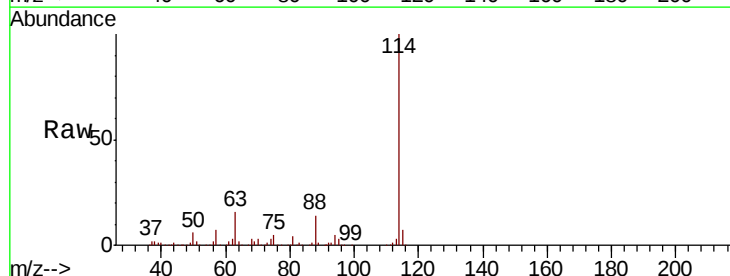
Tgt Ion: 114 Resp: 380067

Ion Ratio Lower Upper

114 100

63 16.3 0.0 47.4

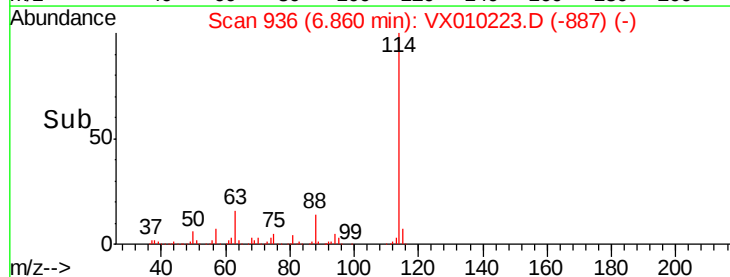
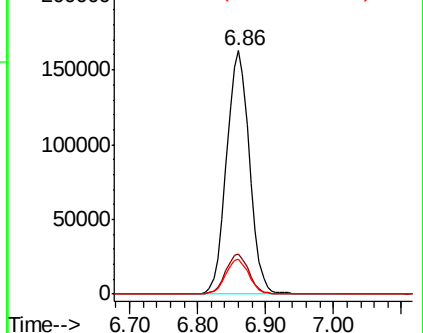
88 14.4 0.0 33.0

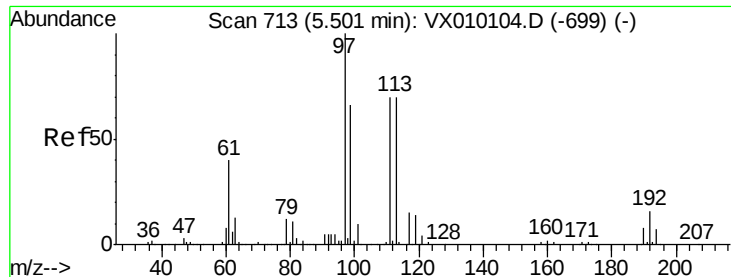


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.625 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.01 min

Lab File: VX010223.D

Acq: 11 Jun 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

RE120D3-20190606

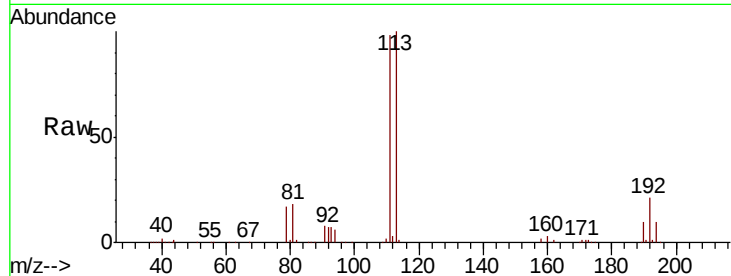
Tot Ion:113 Resp: 116337

Ion Ratio Lower Upper

113 100

111 101.2 82.2 123.2

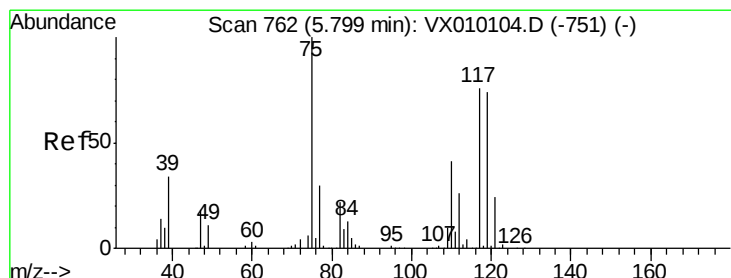
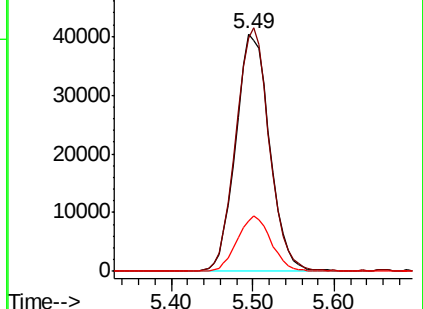
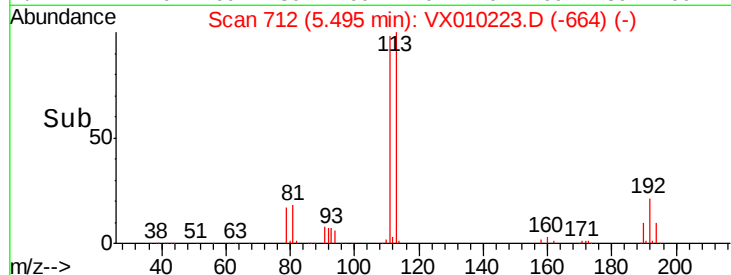
192 23.1 17.1 25.7



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: 4.658 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010223.D

Acq: 11 Jun 2019 11:35

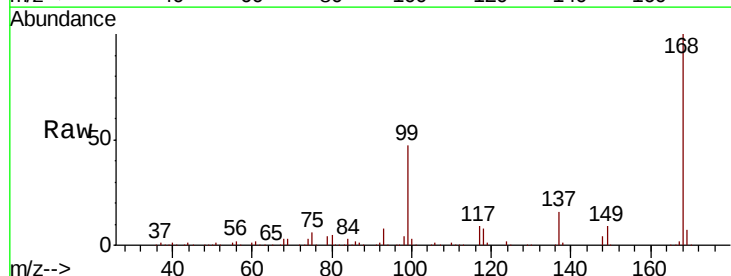
Tgt Ion: 75 Resp: 14442

Ion Ratio Lower Upper

75 100

110 10.0 16.7 50.1#

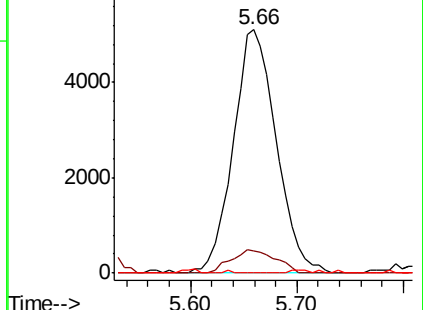
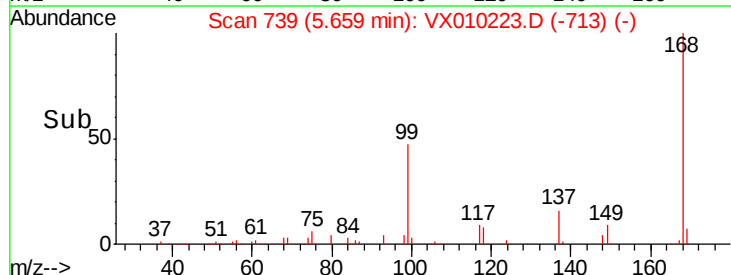
77 0.0 25.0 37.4#

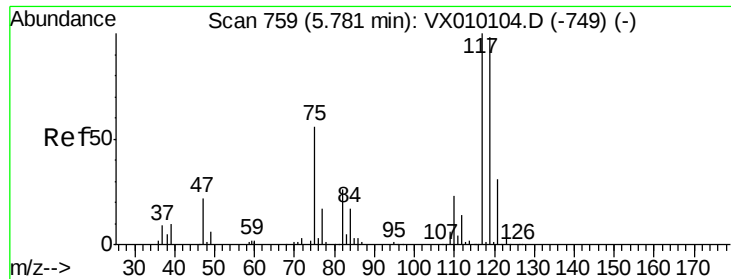


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

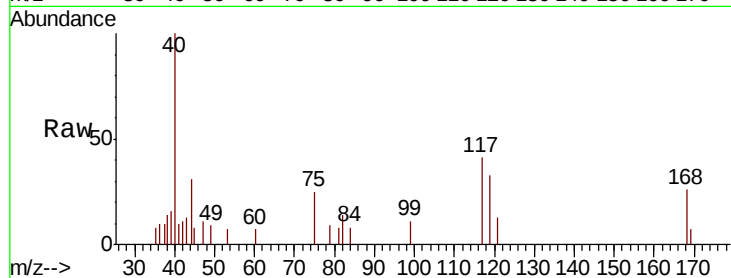




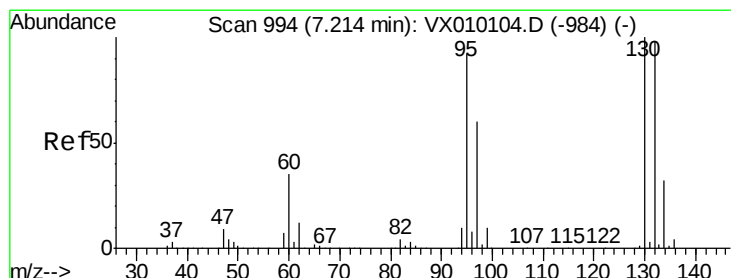
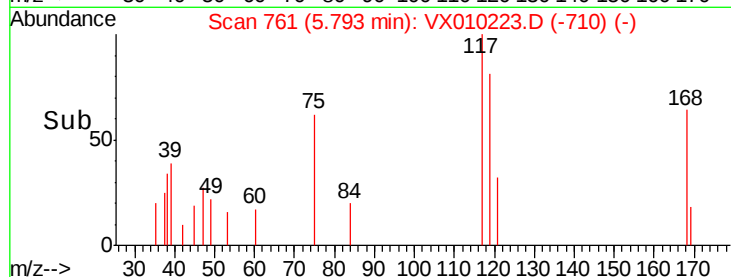
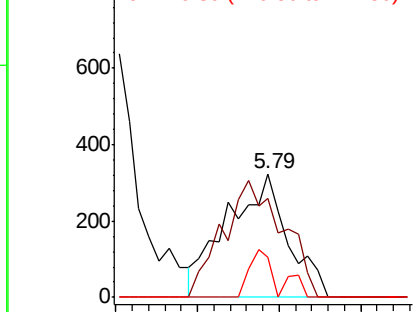
#38
Carbon Tetrachloride
Concen: 0.239 ug/l
RT: 5.79 min Scan# 761
Delta R.T. 0.01 min
Lab File: VX010223.D
Acq: 11 Jun 2019 11:35

Instrument :
MSVOA_X
ClientSampleId :
RE120D3-20190606

Tot Ion:117 Resp: 839
Ion Ratio Lower Upper
117 100
119 80.6 77.3 115.9
121 32.1 25.4 38.0

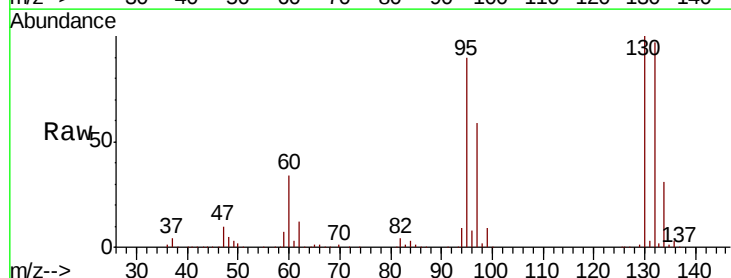


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

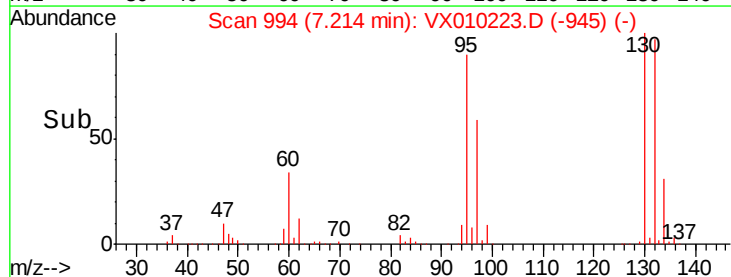
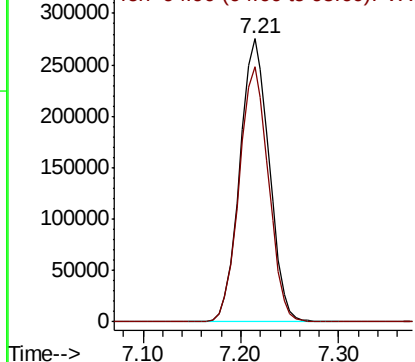


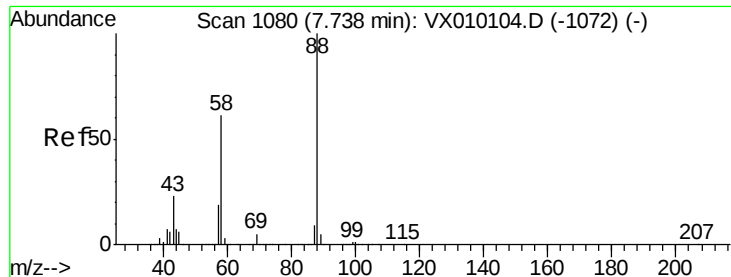
#44
Trichloroethene
Concen: 199.099 ug/l
RT: 7.21 min Scan# 994
Delta R.T. 0.00 min
Lab File: VX010223.D
Acq: 11 Jun 2019 11:35

Tgt Ion:130 Resp: 575427
Ion Ratio Lower Upper
130 100
95 90.4 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: 6.062 ug/l

RT: 7.75 min Scan# 1082

Delta R.T. 0.01 min

Lab File: VX010223.D

Acq: 11 Jun 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

RE120D3-20190606

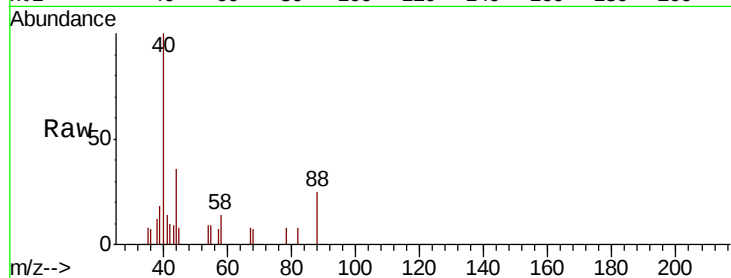
Tot Ion: 88 Resp: 436

Ion Ratio Lower Upper

88 100

43 27.5 30.2 45.4#

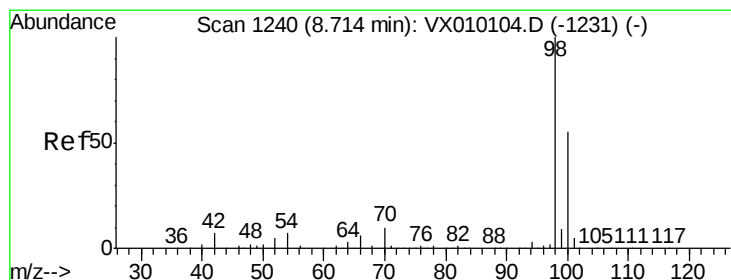
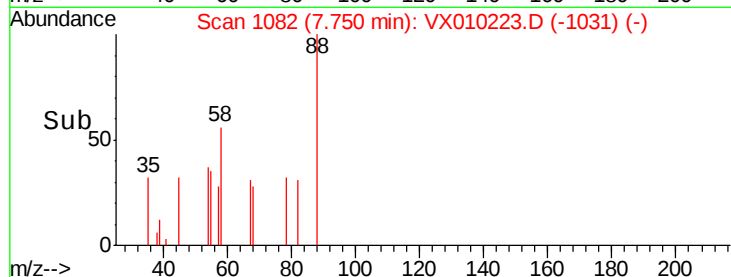
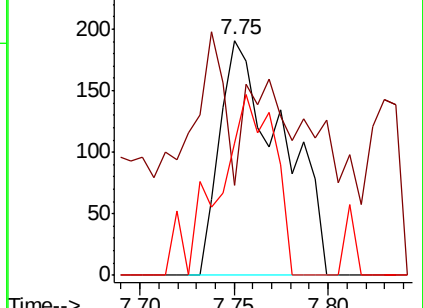
58 70.6 64.0 96.0



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



#50

Toluene-d8

Concen: 50.378 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010223.D

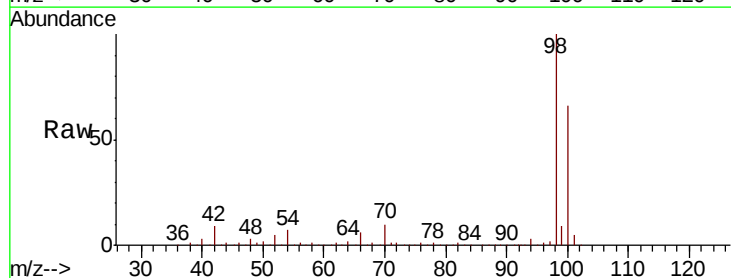
Acq: 11 Jun 2019 11:35

Tgt Ion: 98 Resp: 442630

Ion Ratio Lower Upper

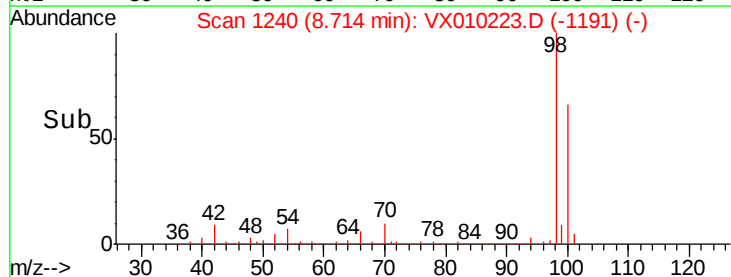
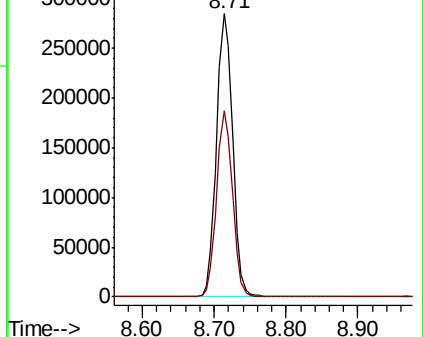
98 100

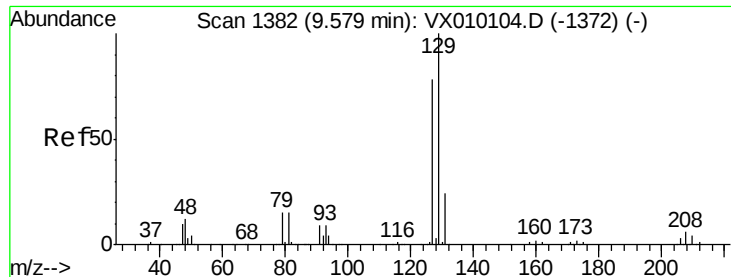
100 64.4 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 0.822 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX010223.D

Acq: 11 Jun 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

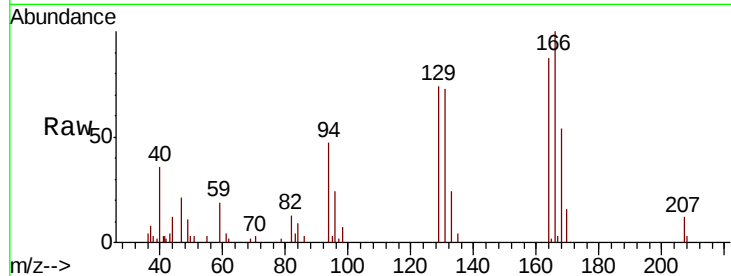
RE120D3-20190606

Tot Ion:129 Resp: 2509

Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.5#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

2000

1500

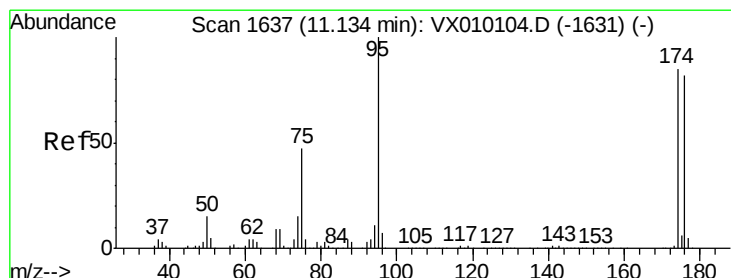
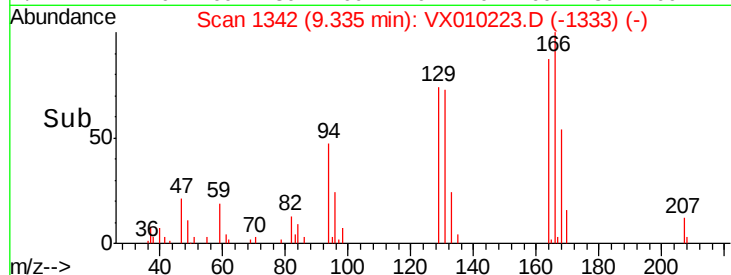
1000

500

0

9.30 9.35

Time-->



#62

4-Bromofluorobenzene

Concen: 45.901 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010223.D

Acq: 11 Jun 2019 11:35

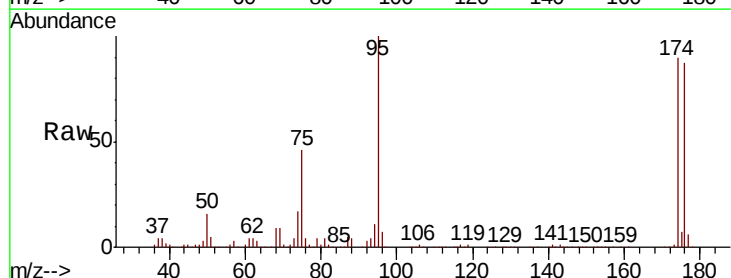
Tgt Ion: 95 Resp: 150616

Ion Ratio Lower Upper

95 100

174 95.3 0.0 160.4

176 92.6 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

150000

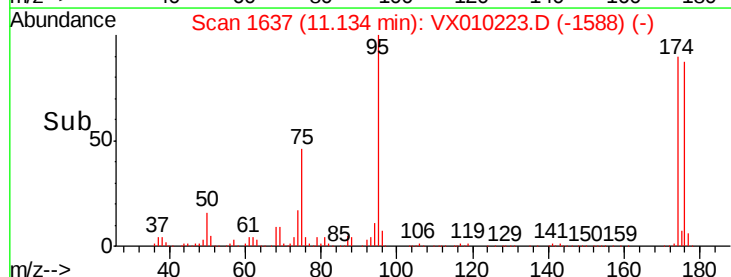
100000

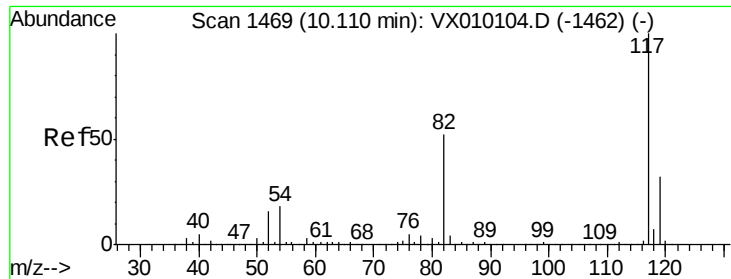
50000

0

11.10 11.20

Time-->

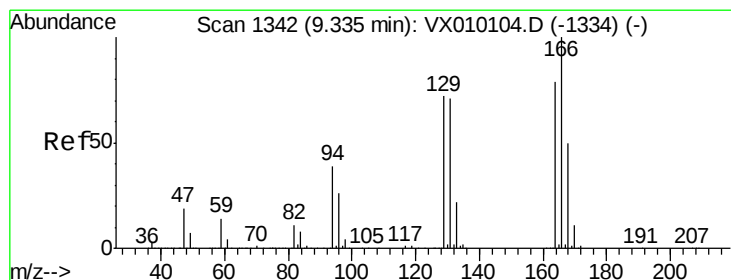
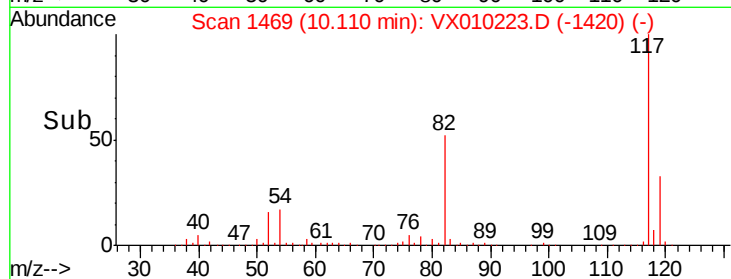
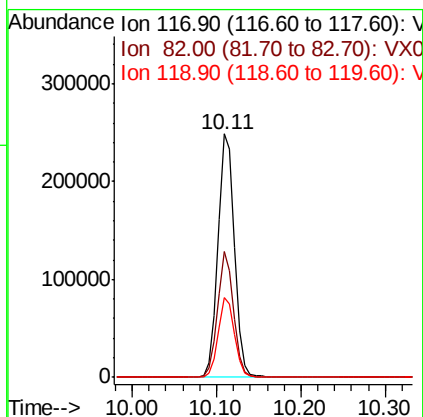
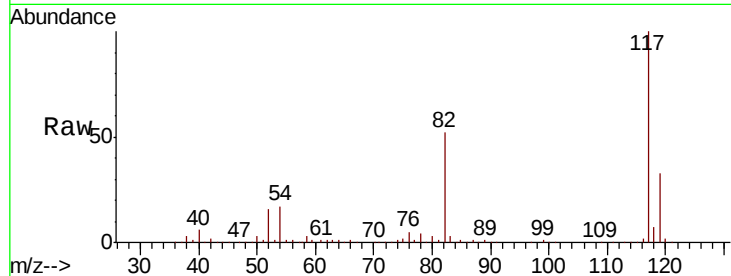




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX010223.D
Acq: 11 Jun 2019 11:35

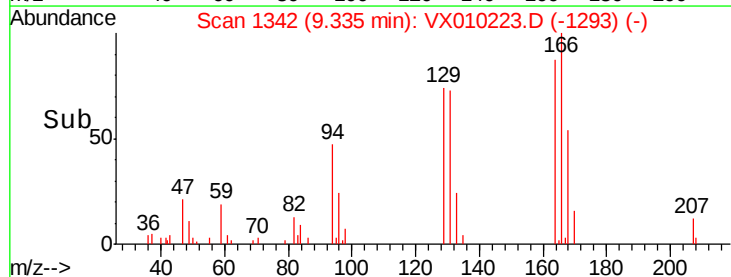
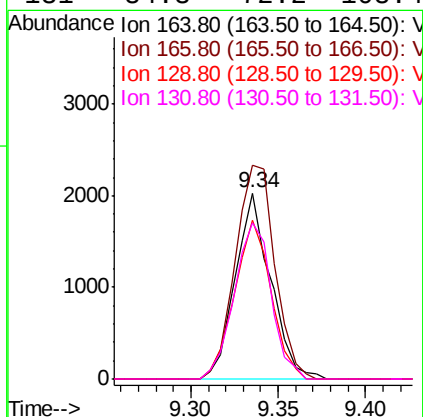
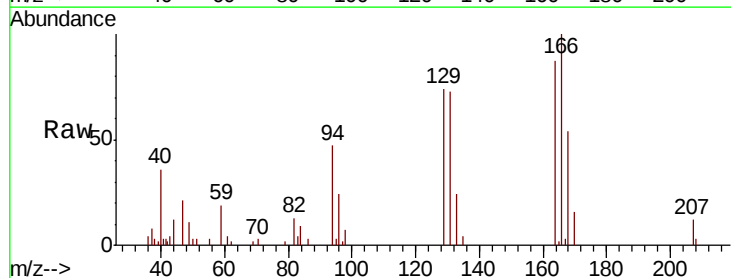
Instrument :
MSVOA_X
ClientSampleId :
RE120D3-20190606

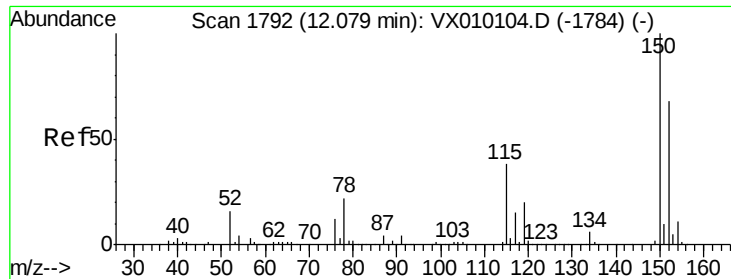
Tot Ion:117 Resp: 340156
Ion Ratio Lower Upper
117 100
82 51.8 49.2 73.8
119 32.7 25.2 37.8



#64
Tetrachloroethene
Concen: 1.127 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX010223.D
Acq: 11 Jun 2019 11:35

Tgt Ion:164 Resp: 2847
Ion Ratio Lower Upper
164 100
166 114.9 105.0 157.4
129 85.3 75.1 112.7
131 84.3 72.2 108.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX010223.D

Acq: 11 Jun 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

RE120D3-20190606

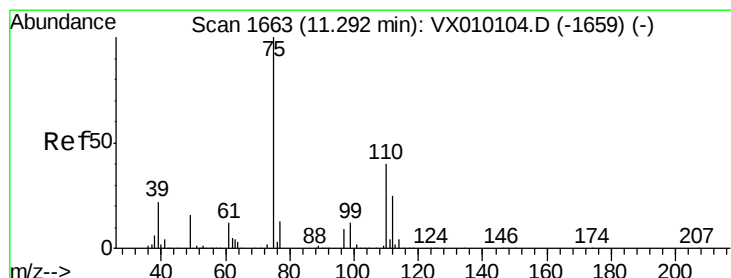
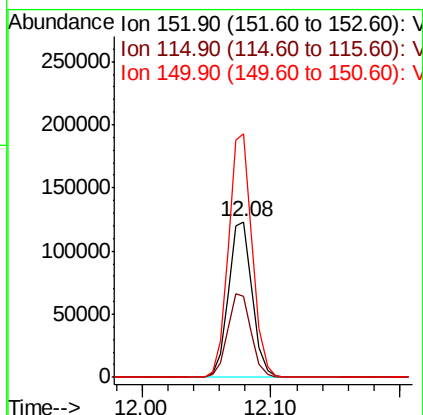
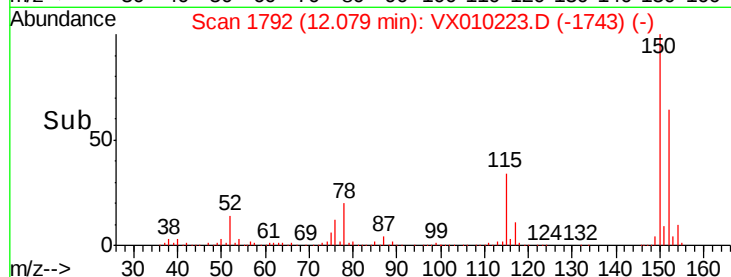
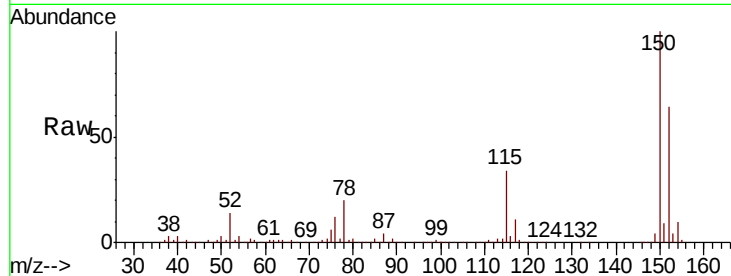
Tot Ion:152 Resp: 159551

Ion Ratio Lower Upper

152 100

115 53.8 41.4 124.2

150 156.0 0.0 345.2



#76

1,2,3-Trichloropropane

Concen: 21.763 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010223.D

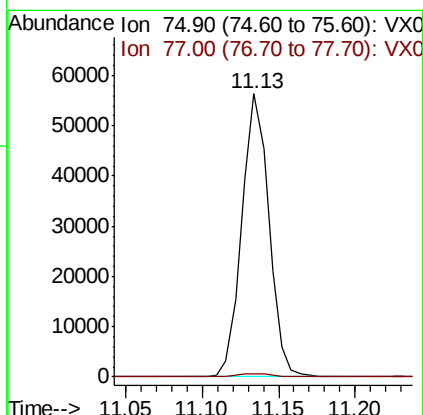
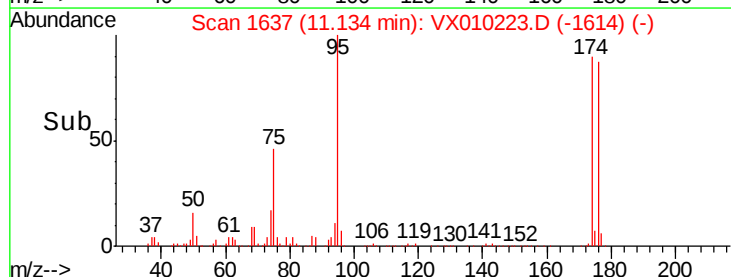
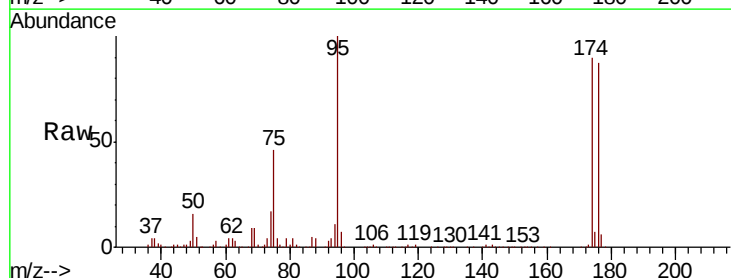
Acq: 11 Jun 2019 11:35

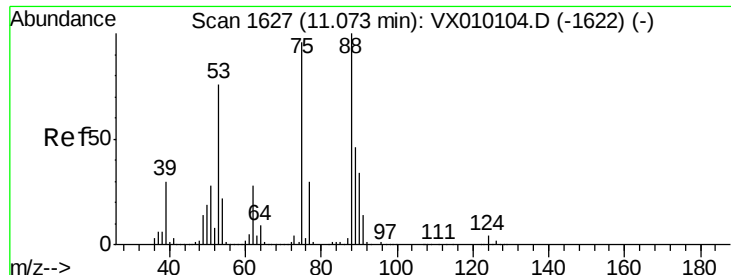
Tgt Ion: 75 Resp: 69452

Ion Ratio Lower Upper

75 100

77 1.3 22.1 66.1#





#81

trans-1,4-Dichloro-2-butene

Concen: 48.083 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010223.D

Acq: 11 Jun 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

RE120D3-20190606

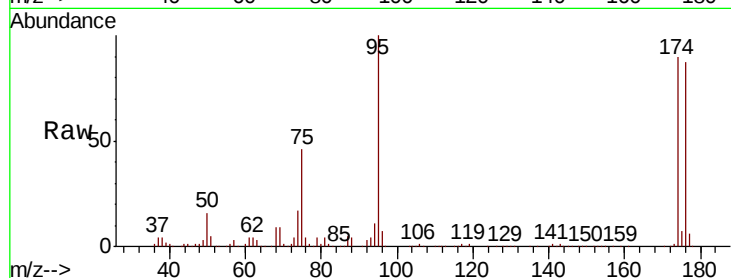
Tot Ion: 75 Resp: 69452

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

