

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120619\
 Data File : VX013803.D
 Acq On : 06 Dec 2019 16:39
 Operator : JC/SP
 Sample : K6184-20
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE104D1-20191204

Quant Time: Dec 07 02:38:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	629721	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	955804	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	849147	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	371637	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	343886	47.05	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.10%	
35) Dibromofluoromethane	5.49	113	284010	48.06	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.12%	
50) Toluene-d8	8.71	98	1121660	48.72	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.44%	
62) 4-Bromofluorobenzene	11.14	95	378242	45.56	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.12%	

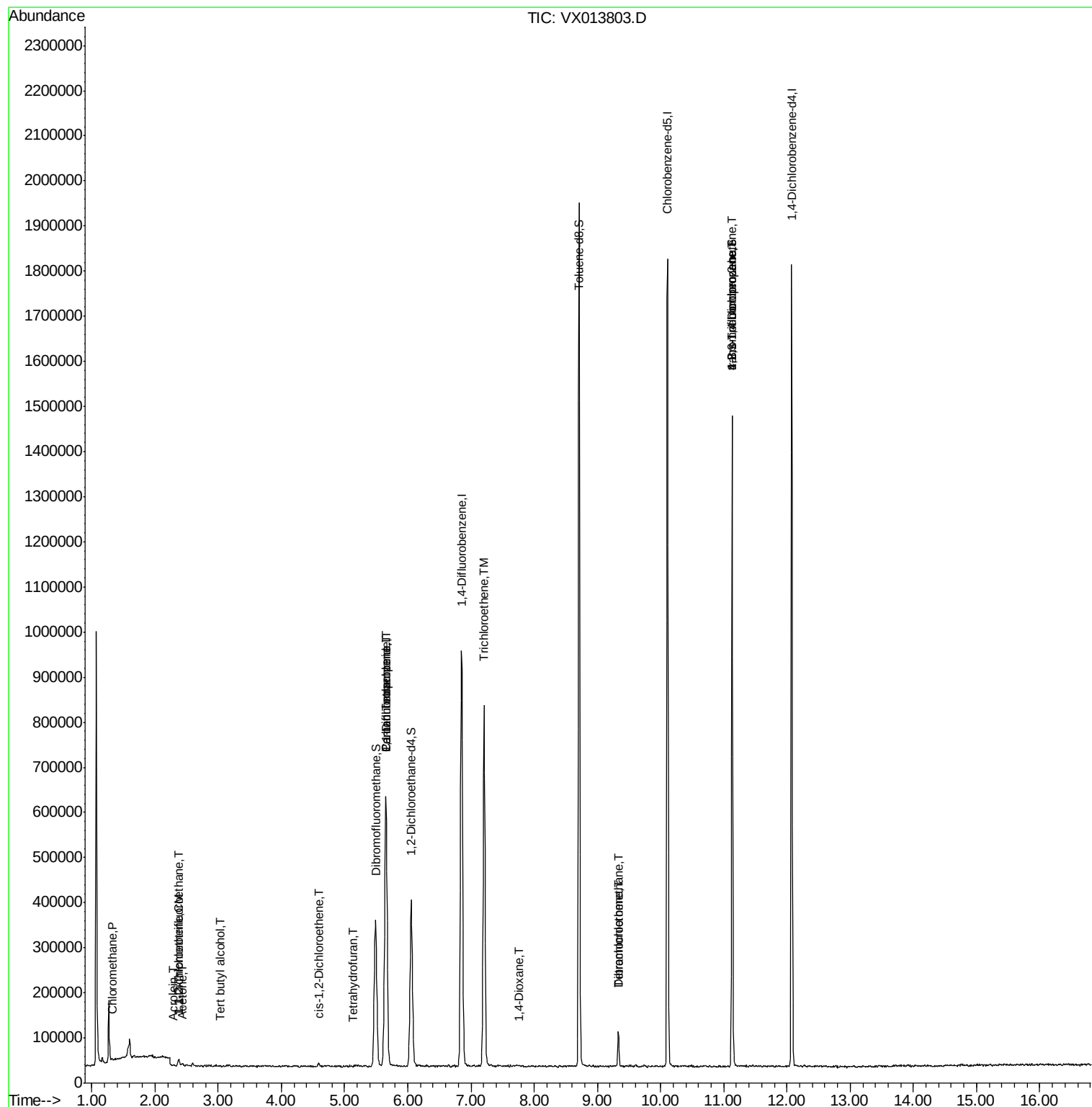
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1815	0.231	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	2.38	101	7421	1.236	ug/l	89
11) Tert butyl alcohol	3.04	59	440	0.244	ug/l #	1
12) 1,1-Dichloroethene	2.36	96	1229	0.205	ug/l #	71
13) Acrolein	2.28	56	293	6.241	ug/l #	15
16) Acetone	2.44	43	6184	1.714	ug/l	92
27) cis-1,2-Dichloroethene	4.59	96	3111	0.415	ug/l	85
29) Tetrahydrofuran	5.13	42	900	0.272	ug/l #	62
36) 1,1-Dichloropropene	5.65	75	42747	4.927	ug/l #	48
38) Carbon Tetrachloride	5.65	117	56011	7.001	ug/l #	17
44) Trichloroethene	7.21	130	323320	44.582	ug/l	98
49) 1,4-Dioxane	7.75	88	2291	13.146	ug/l #	38
60) Dibromochloromethane	9.33	129	13607	1.982	ug/l #	14
64) Tetrachloroethene	9.34	164	16228	2.563	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	181436	21.706	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	181436	59.384	ug/l #	11

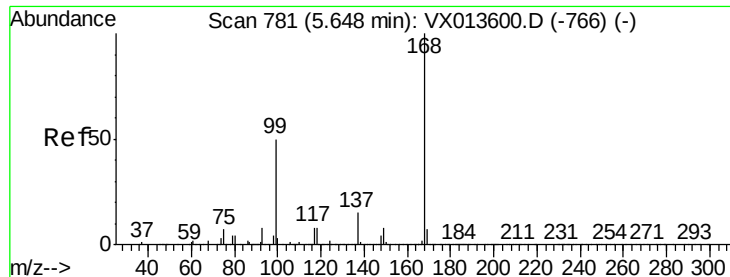
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013803.D

Acq: 06 Dec 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

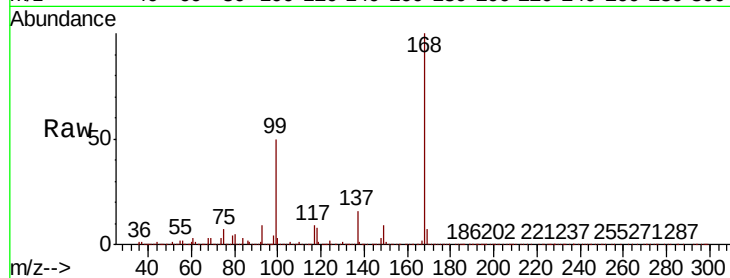
RE104D1-20191204

Tot Ion:168 Resp: 629721

Ion Ratio Lower Upper

168 100

99 50.1 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

250000

200000

150000

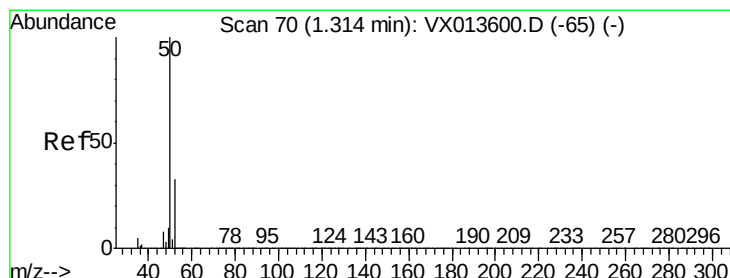
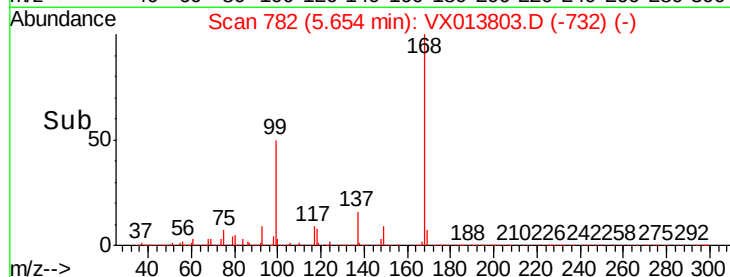
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.231 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.01 min

Lab File: VX013803.D

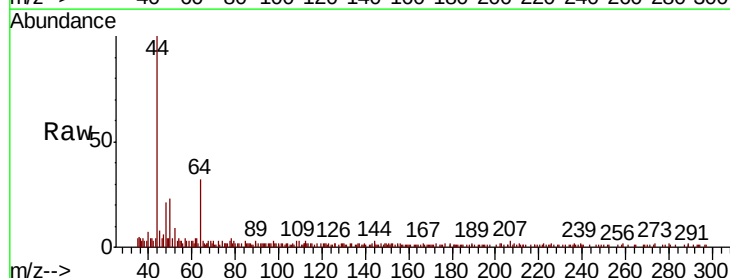
Acq: 06 Dec 2019 16:39

Tgt Ion: 50 Resp: 1815

Ion Ratio Lower Upper

50 100

52 34.3 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

2500

2000

1500

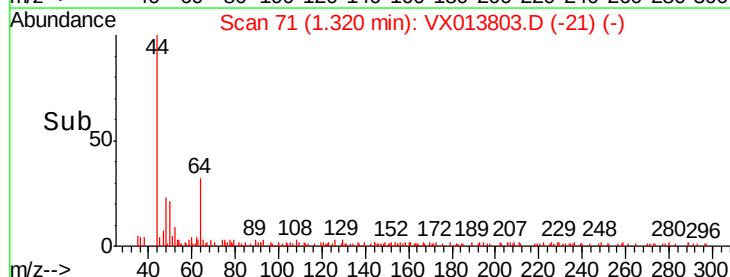
1000

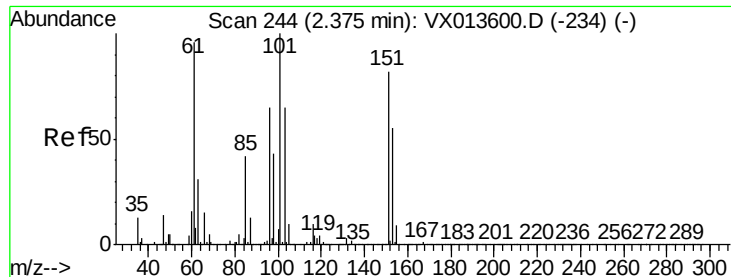
500

0

Time-->

1.28 1.30 1.32 1.34





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.236 ug/l

RT: 2.38 min Scan# 245

Delta R.T. 0.01 min

Lab File: VX013803.D

Acq: 06 Dec 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

RE104D1-20191204

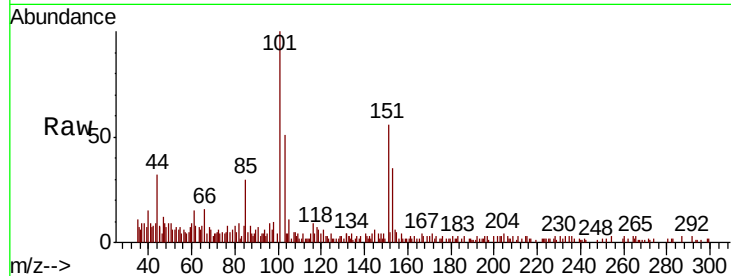
Tot Ion:101 Resp: 7421

Ion Ratio Lower Upper

101 100

85 47.4 33.9 50.9

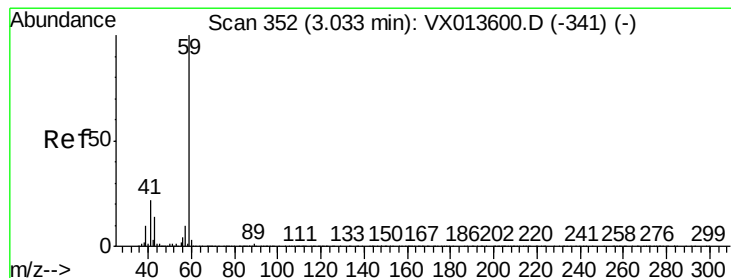
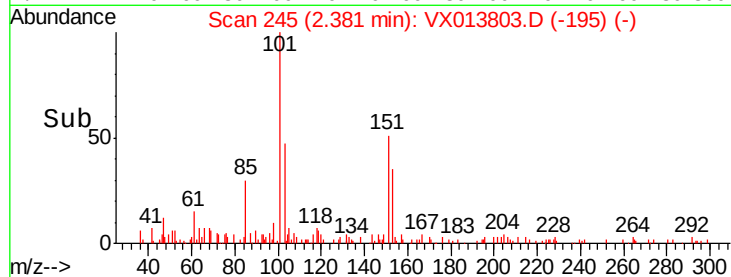
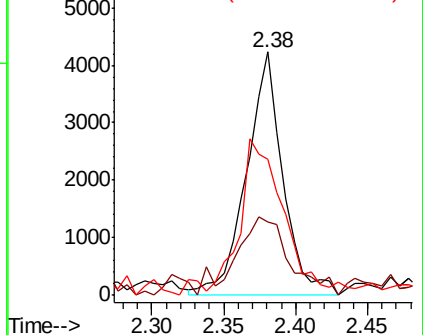
151 69.7 64.2 96.2



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



#11

Tert butyl alcohol

Concen: 0.244 ug/l

RT: 3.04 min Scan# 353

Delta R.T. 0.01 min

Lab File: VX013803.D

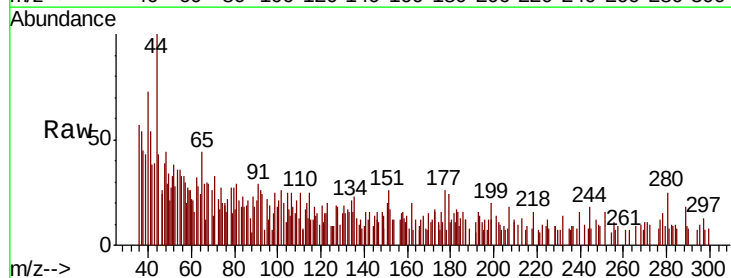
Acq: 06 Dec 2019 16:39

Tgt Ion: 59 Resp: 440

Ion Ratio Lower Upper

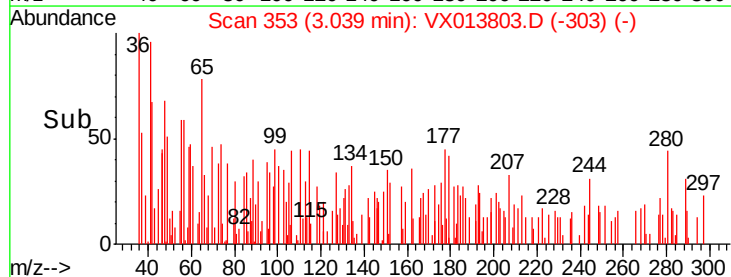
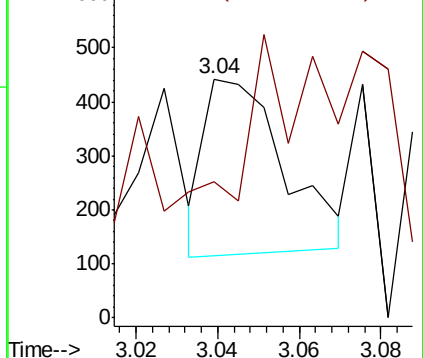
59 100

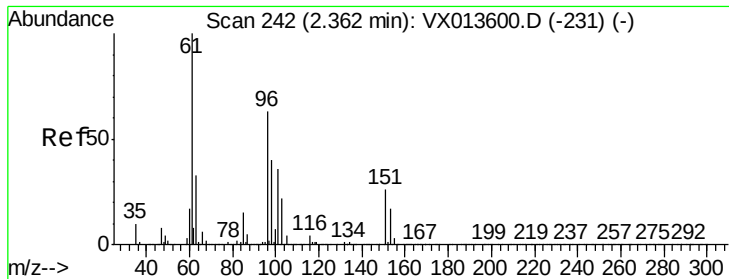
57 196.6 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.205 ug/l

RT: 2.36 min Scan# 242

Delta R.T. -0.00 min

Lab File: VX013803.D

Acq: 06 Dec 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

RE104D1-20191204

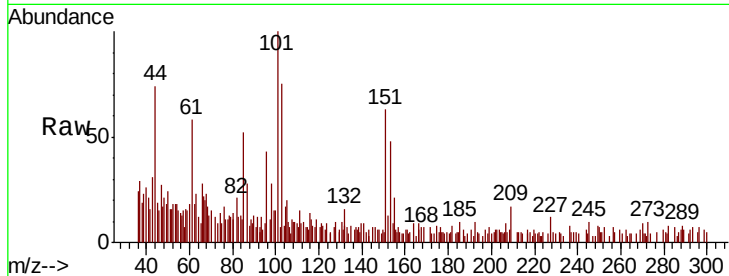
Tot Ion: 96 Resp: 1229

Ion Ratio Lower Upper

96 100

61 127.6 126.6 190.0

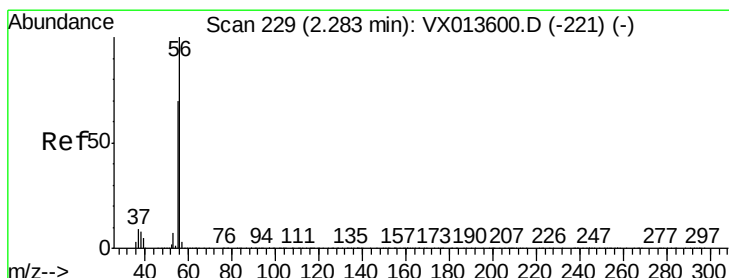
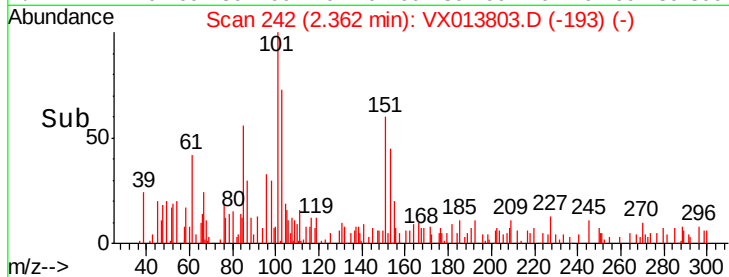
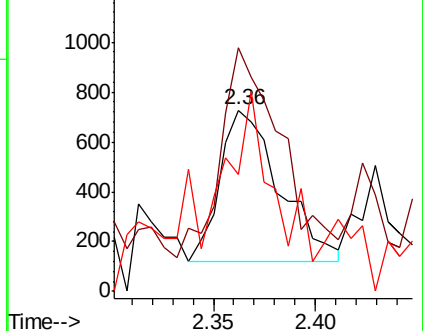
98 29.3 50.6 76.0#



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: 6.241 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.00 min

Lab File: VX013803.D

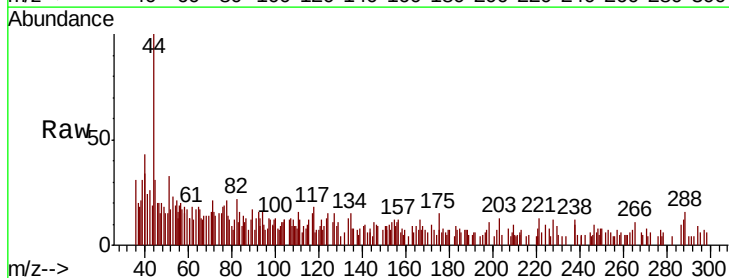
Acq: 06 Dec 2019 16:39

Tgt Ion: 56 Resp: 293

Ion Ratio Lower Upper

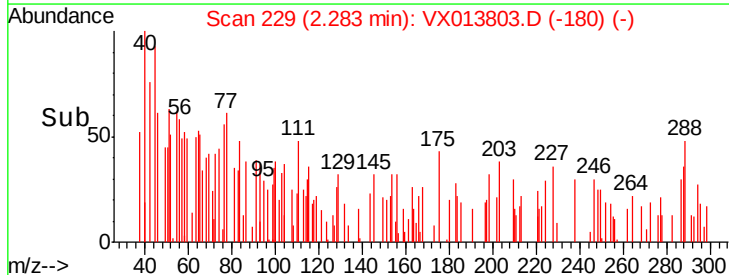
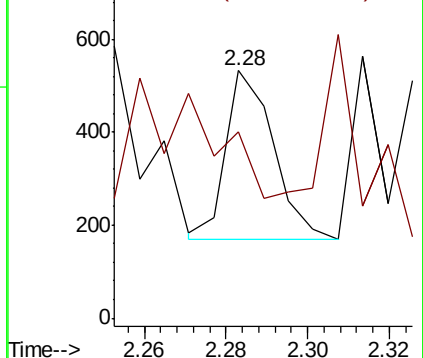
56 100

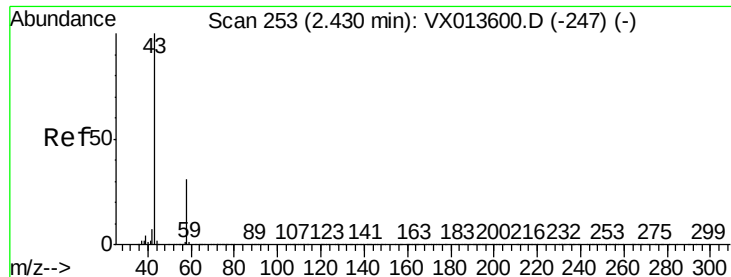
55 0.0 56.2 84.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 1.714 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.01 min

Lab File: VX013803.D

Acq: 06 Dec 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

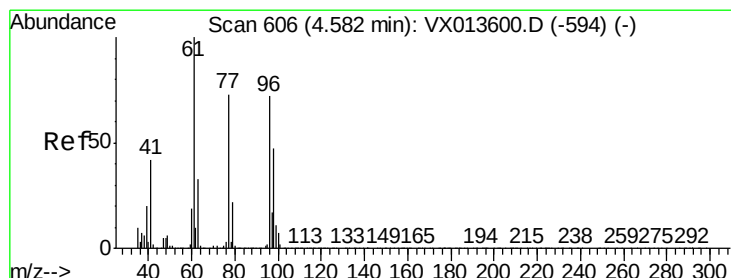
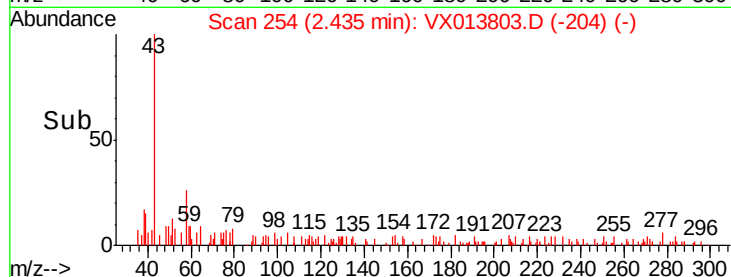
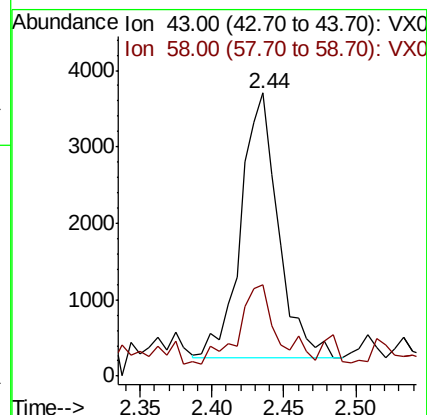
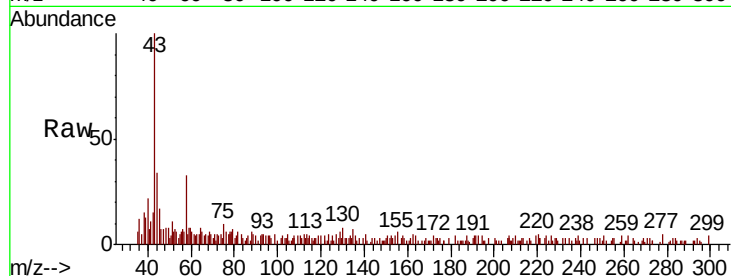
RE104D1-20191204

Tot Ion: 43 Resp: 6184

Ion Ratio Lower Upper

43 100

58 35.1 24.6 36.8



#27

cis-1,2-Dichloroethene

Concen: 0.415 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.01 min

Lab File: VX013803.D

Acq: 06 Dec 2019 16:39

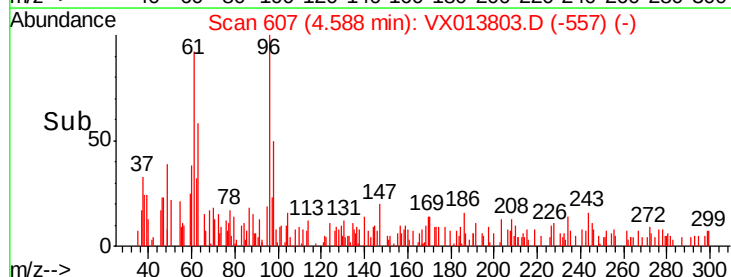
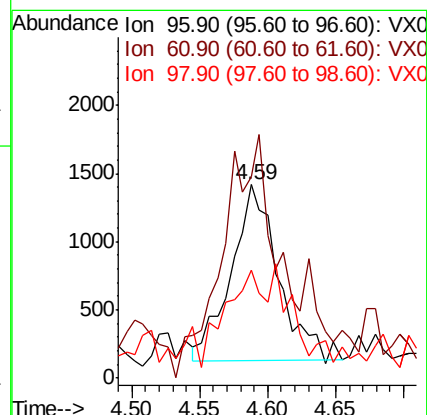
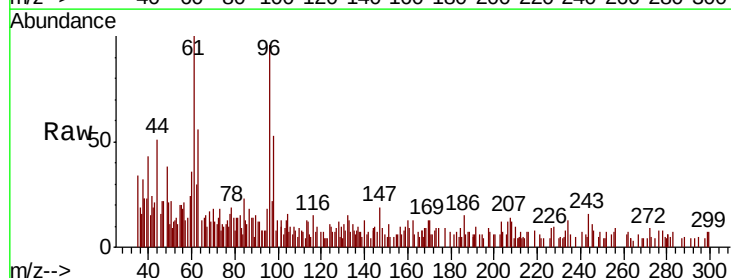
Tgt Ion: 96 Resp: 3111

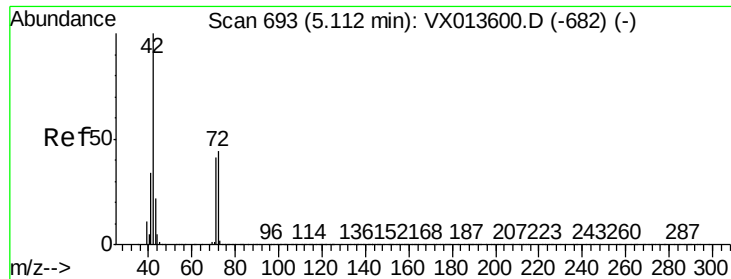
Ion Ratio Lower Upper

96 100

61 157.7 0.0 286.4

98 45.5 0.0 127.4





#29

Tetrahydrofuran

Concen: 0.272 ug/l

RT: 5.13 min Scan# 696

Delta R.T. 0.02 min

Lab File: VX013803.D

Acq: 06 Dec 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

RE104D1-20191204

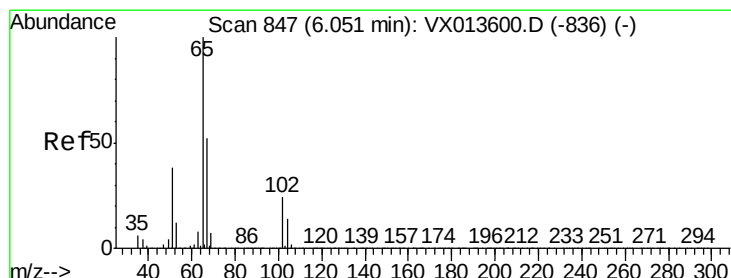
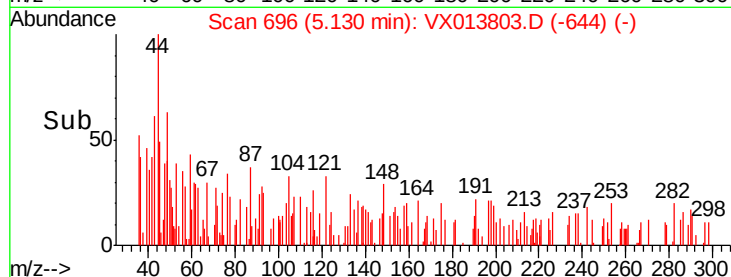
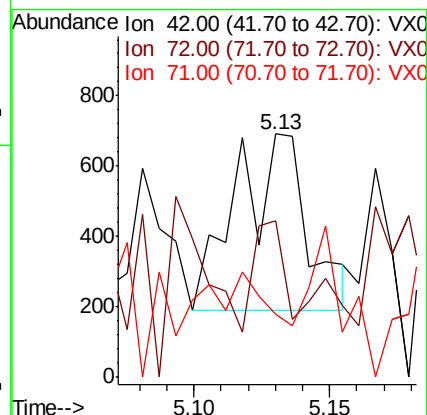
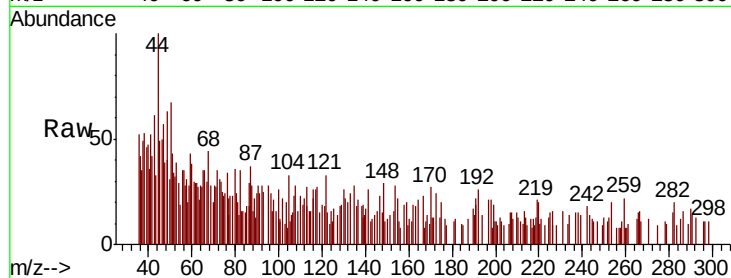
Tot Ion: 42 Resp: 900

Ion Ratio Lower Upper

42 100

72 36.9 36.3 54.5

71 0.0 33.2 49.8#



#33

1,2-Dichloroethane-d4

Concen: 47.046 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX013803.D

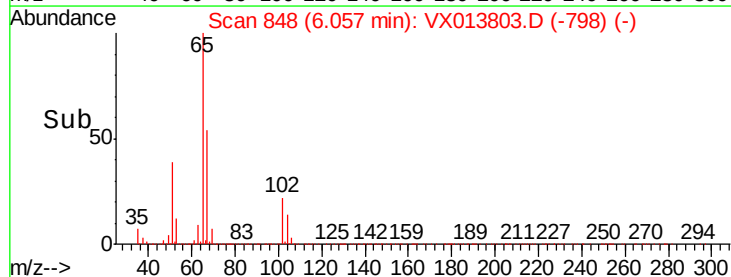
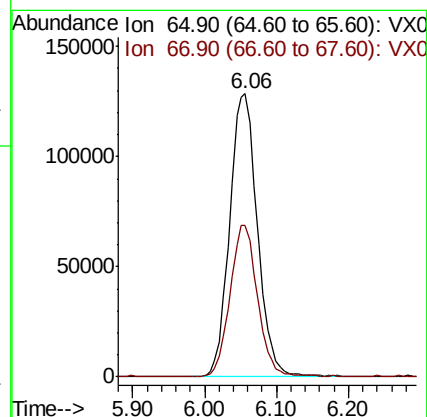
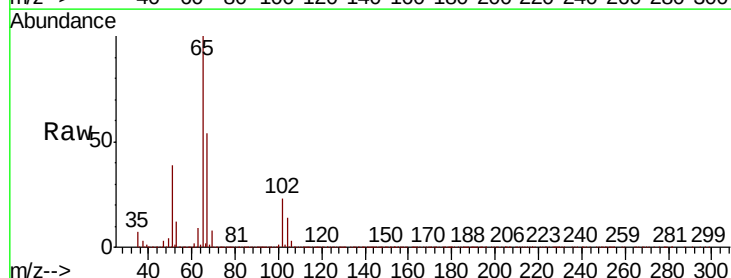
Acq: 06 Dec 2019 16:39

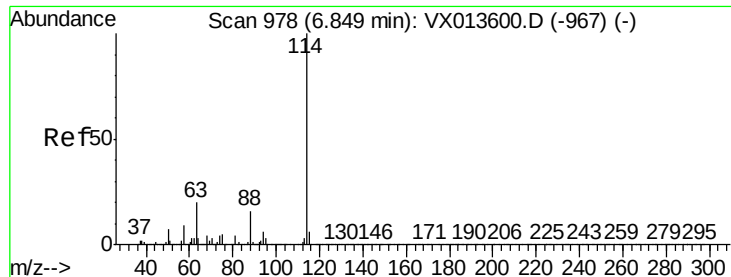
Tgt Ion: 65 Resp: 343886

Ion Ratio Lower Upper

65 100

67 52.7 0.0 104.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013803.D

Acq: 06 Dec 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

RE104D1-20191204

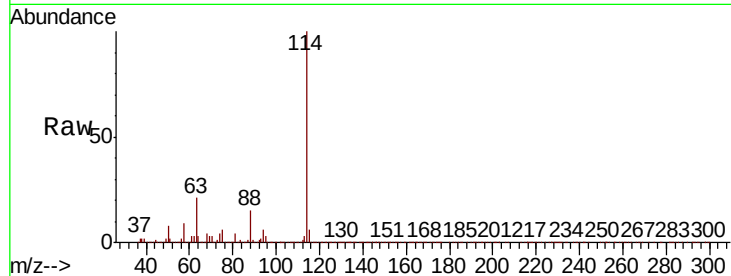
Tot Ion:114 Resp: 955804

Ion Ratio Lower Upper

114 100

63 21.0 0.0 39.6

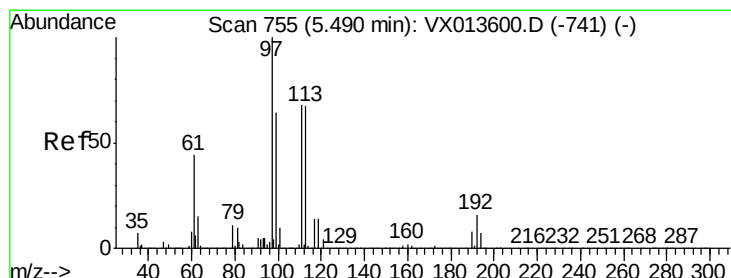
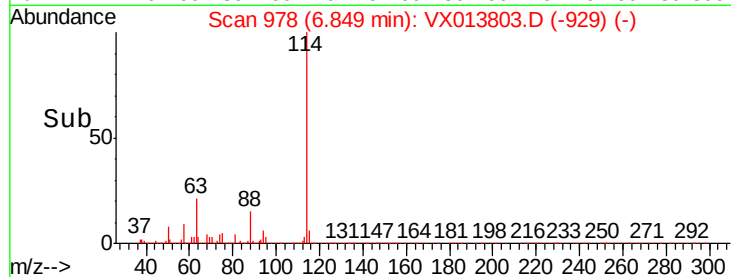
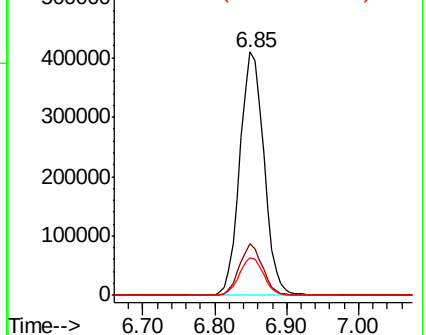
88 15.3 0.0 31.4



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: 48.065 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013803.D

Acq: 06 Dec 2019 16:39

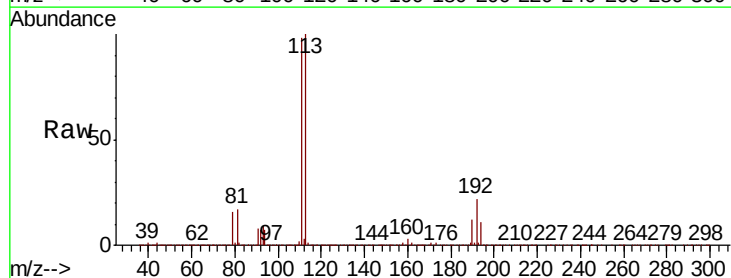
Tgt Ion:113 Resp: 284010

Ion Ratio Lower Upper

113 100

111 102.3 83.6 125.4

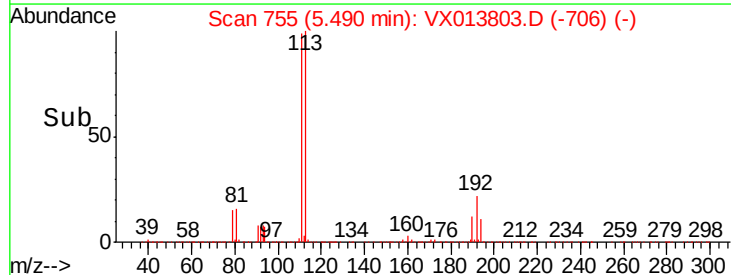
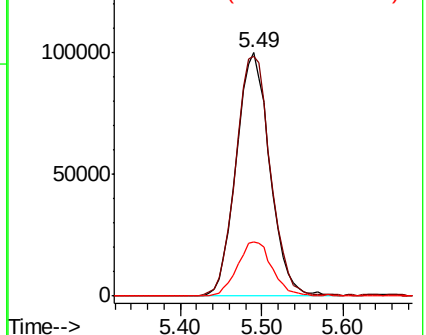
192 23.0 19.2 28.8

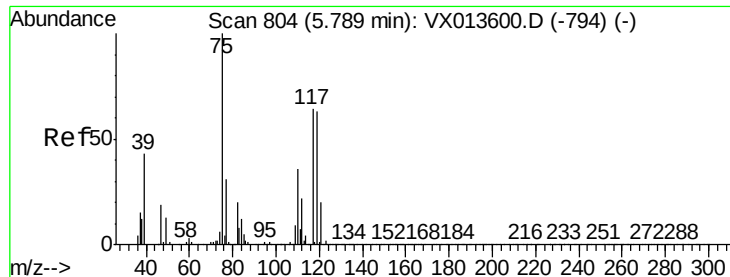


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.927 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013803.D

Acq: 06 Dec 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

RE104D1-20191204

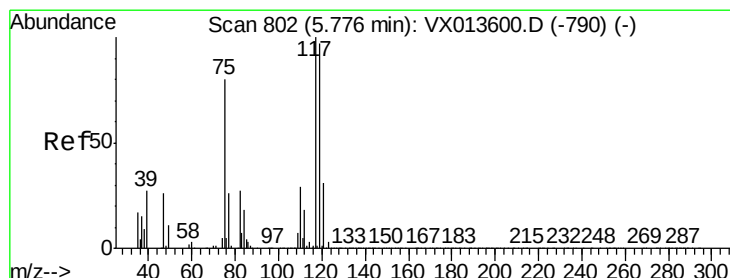
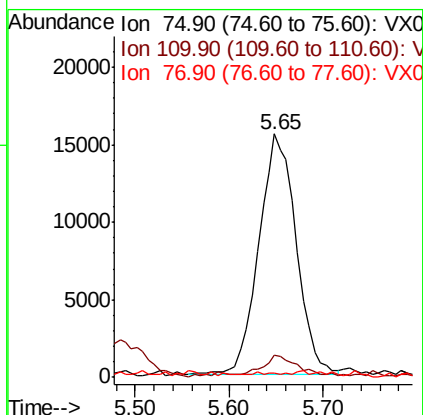
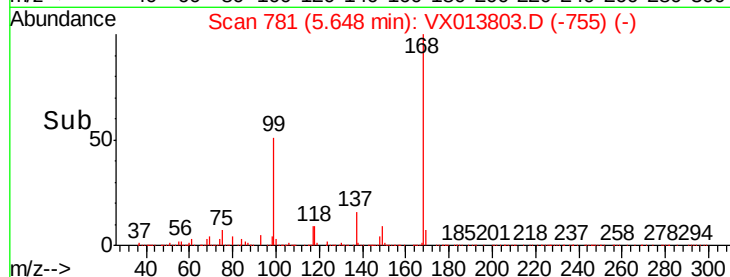
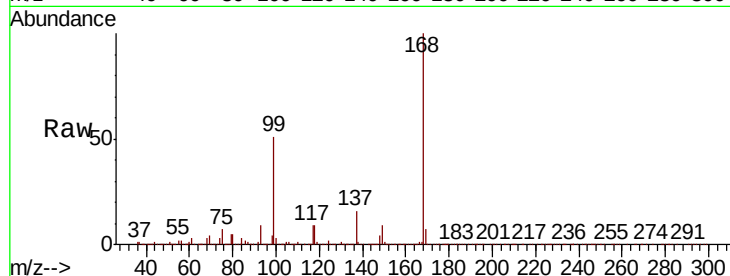
Tot Ion: 75 Resp: 42747

Ion Ratio Lower Upper

75 100

110 7.1 18.1 54.1#

77 0.5 24.5 36.7#



#38

Carbon Tetrachloride

Concen: 7.001 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013803.D

Acq: 06 Dec 2019 16:39

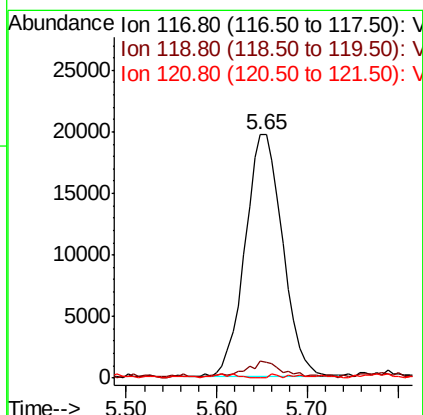
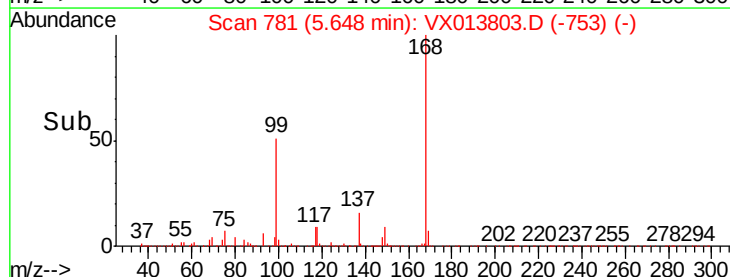
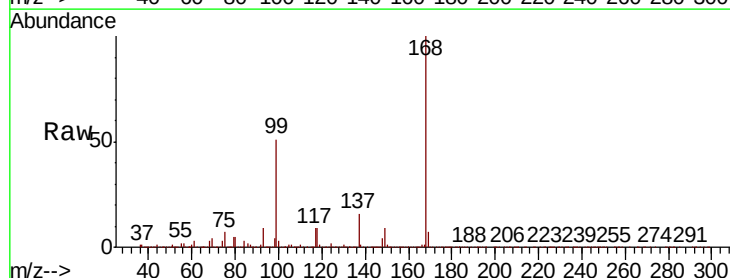
Tgt Ion: 117 Resp: 56011

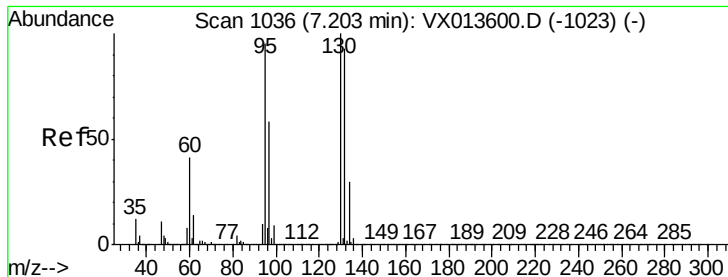
Ion Ratio Lower Upper

117 100

119 6.9 77.5 116.3#

121 0.0 25.0 37.6#





#44

Trichloroethene

Concen: 44.582 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013803.D

Acq: 06 Dec 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

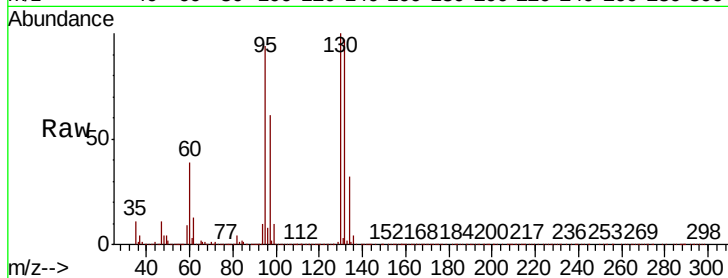
RE104D1-20191204

Tot Ion:130 Resp: 323320

Ion Ratio Lower Upper

130 100

95 93.4 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

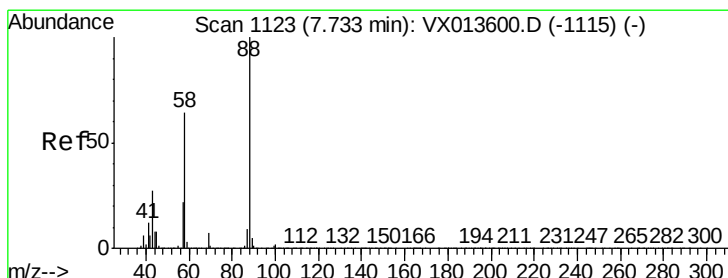
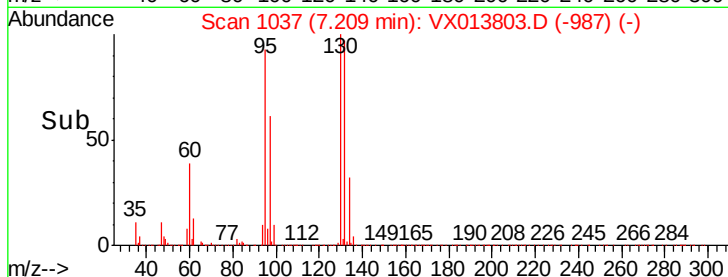
150000

100000

50000

0

Time-->



#49

1,4-Dioxane

Concen: 13.146 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VX013803.D

Acq: 06 Dec 2019 16:39

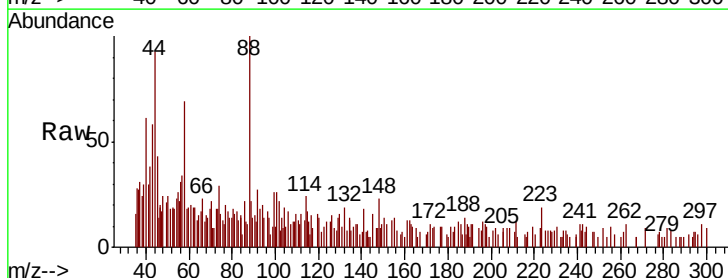
Tgt Ion: 88 Resp: 2291

Ion Ratio Lower Upper

88 100

43 24.0 25.8 38.6#

58 0.0 54.6 82.0#



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

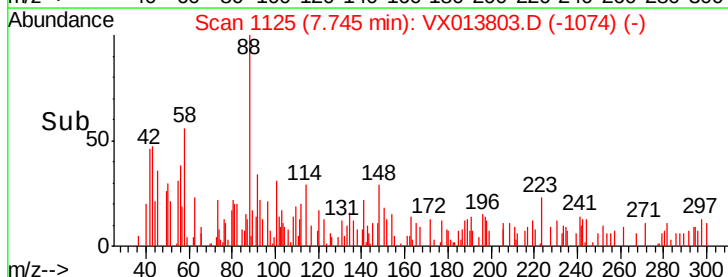
1500

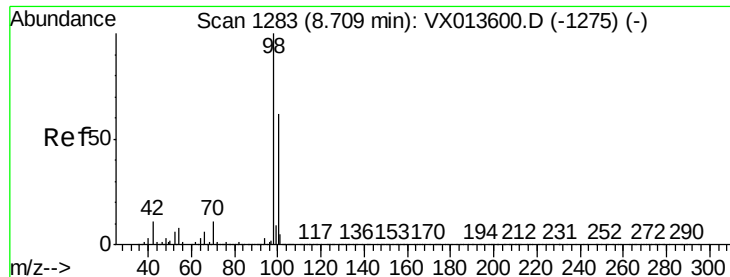
1000

500

0

Time-->





#50

Toluene-d8

Concen: 48.722 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013803.D

Acq: 06 Dec 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

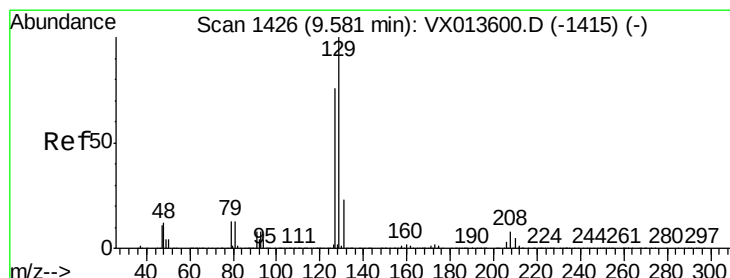
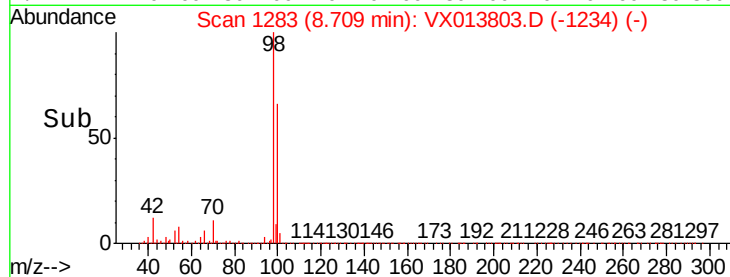
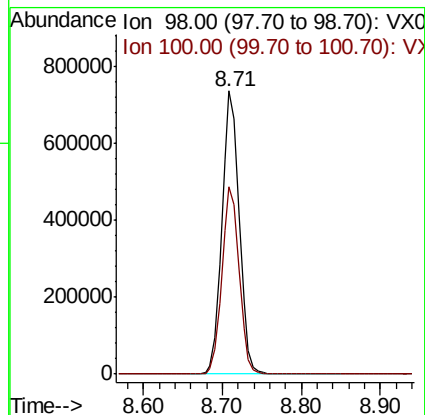
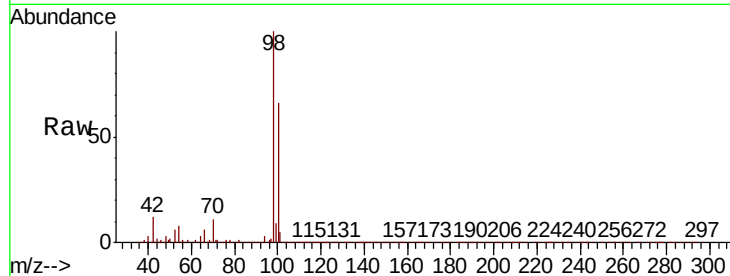
RE104D1-20191204

Tot Ion: 98 Resp: 1121660

Ion Ratio Lower Upper

98 100

100 66.1 53.1 79.7



#60

Dibromochloromethane

Concen: 1.982 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX013803.D

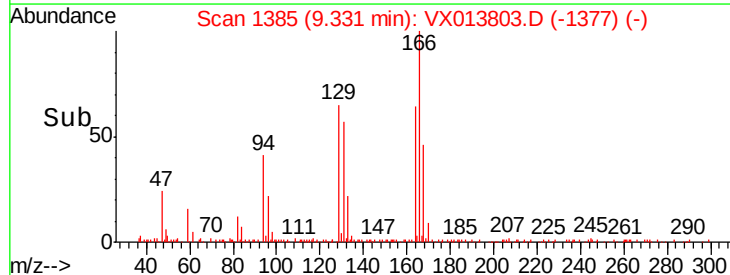
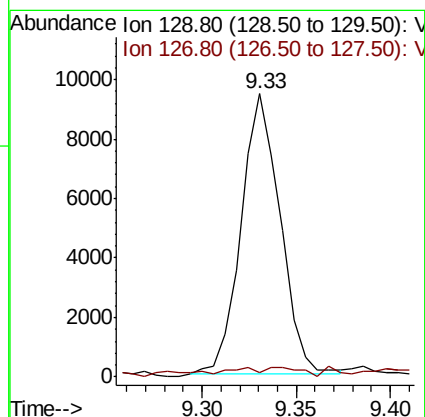
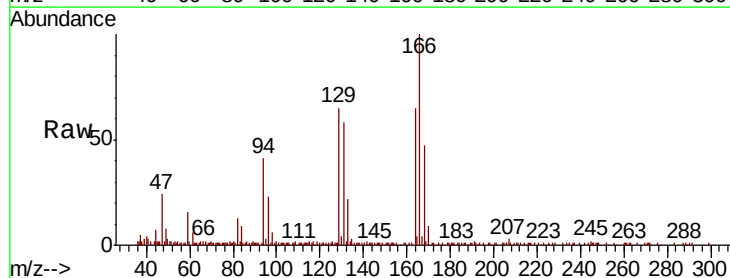
Acq: 06 Dec 2019 16:39

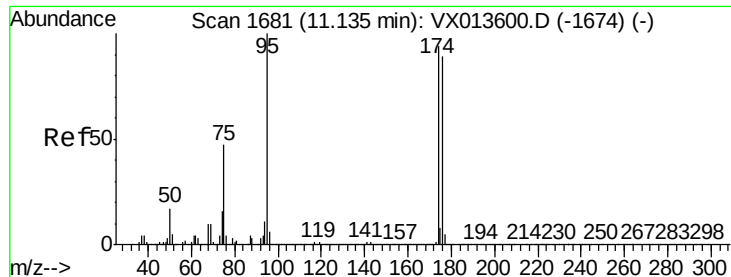
Tgt Ion: 129 Resp: 13607

Ion Ratio Lower Upper

129 100

127 2.9 38.5 115.5#





#62

4-Bromofluorobenzene

Concen: 45.562 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013803.D

Acq: 06 Dec 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

RE104D1-20191204

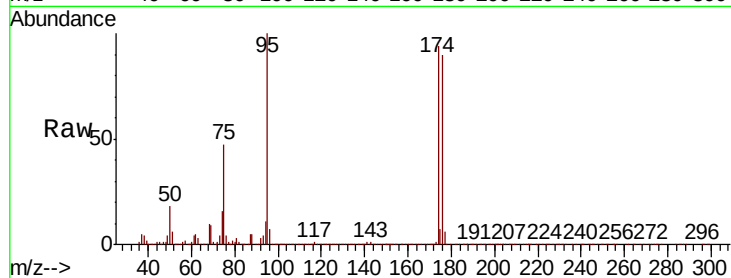
Tot Ion: 95 Resp: 378242

Ion Ratio Lower Upper

95 100

174 89.3 0.0 180.0

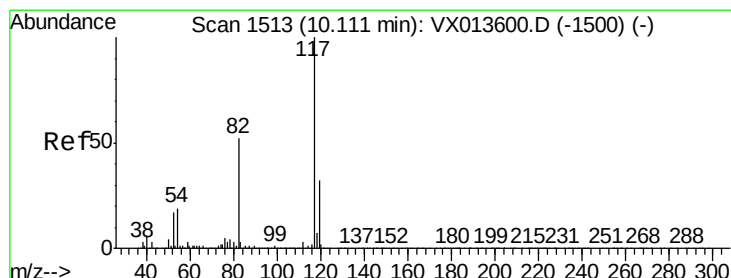
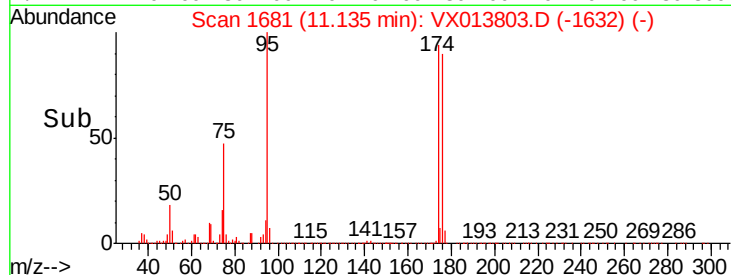
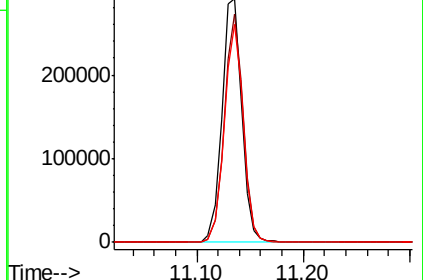
176 85.9 0.0 173.6



Abundance Ion 94.90 (94.60 to 95.60): VX013600.D (-1674) (-)

Ion 173.80 (173.50 to 174.50): VX013600.D (-1674) (-)

Ion 175.80 (175.50 to 176.50): VX013600.D (-1674) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013803.D

Acq: 06 Dec 2019 16:39

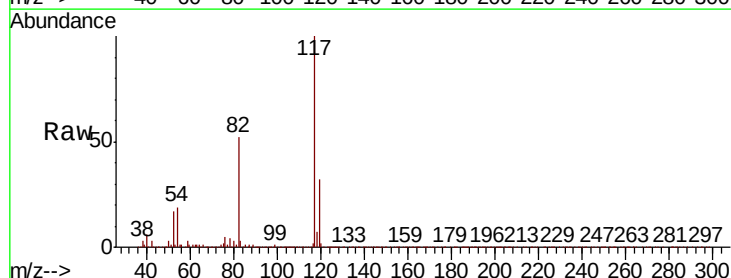
Tgt Ion: 117 Resp: 849147

Ion Ratio Lower Upper

117 100

82 52.5 41.8 62.8

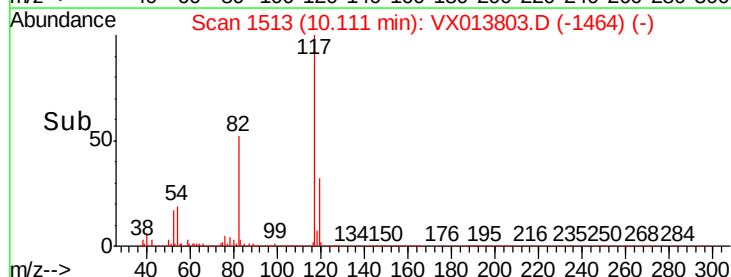
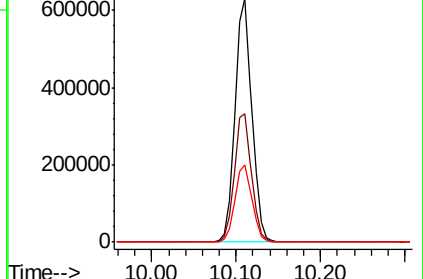
119 31.9 25.8 38.8

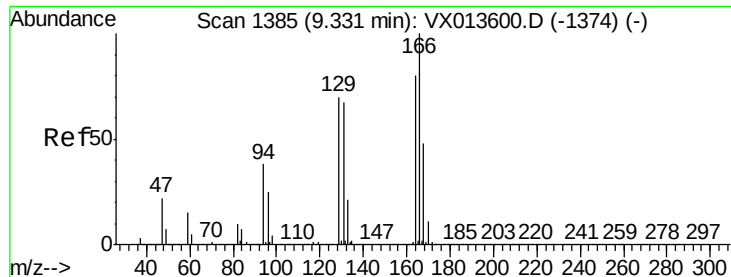


Abundance Ion 116.90 (116.60 to 117.60): VX013600.D (-1500) (-)

Ion 82.00 (81.70 to 82.70): VX013600.D (-1500) (-)

Ion 118.90 (118.60 to 119.60): VX013600.D (-1500) (-)





#64

Tetrachloroethene

Concen: 2.563 ug/l

RT: 9.34 min Scan# 1386

Delta R.T. 0.01 min

Lab File: VX013803.D

Acq: 06 Dec 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

RE104D1-20191204

Tot Ion:164 Resp: 16228

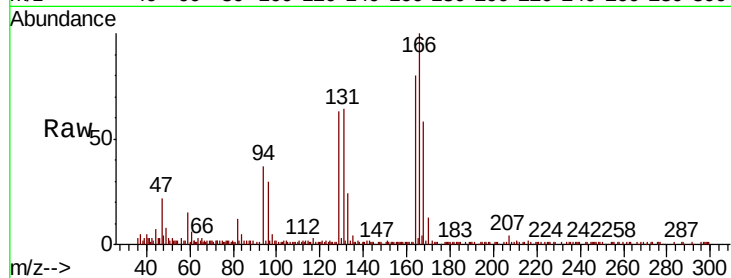
Ion Ratio Lower Upper

164 100

166 123.4 99.7 149.5

129 77.8 70.1 105.1

131 78.2 66.9 100.3

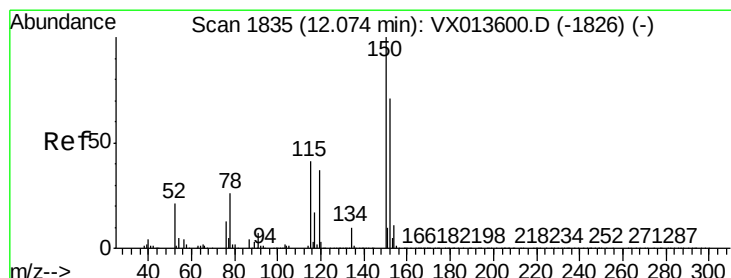
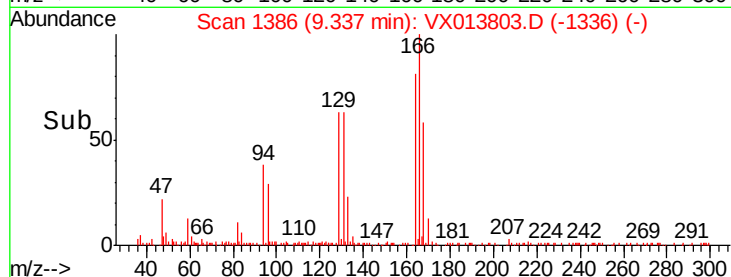
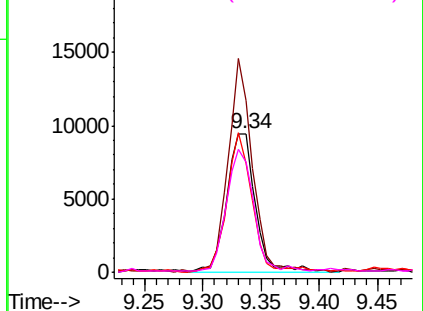


Abundance Ion 163.80 (163.50 to 164.50): V

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: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX013803.D

Acq: 06 Dec 2019 16:39

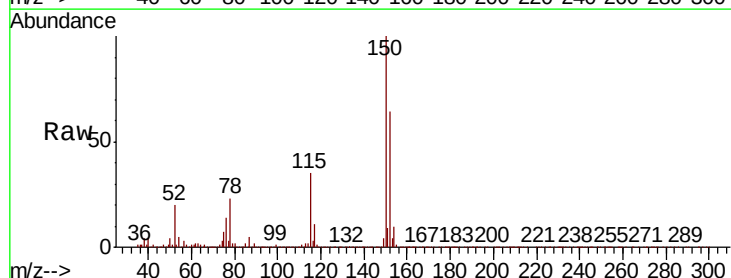
Tgt Ion:152 Resp: 371637

Ion Ratio Lower Upper

152 100

115 54.9 38.4 115.1

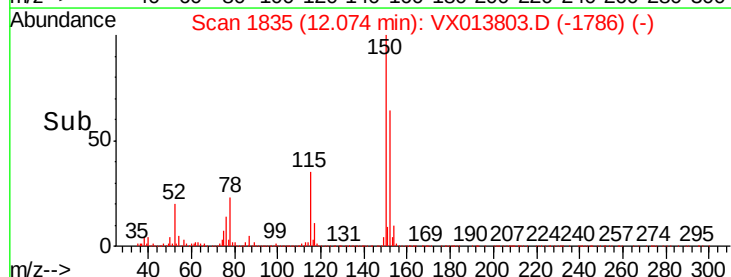
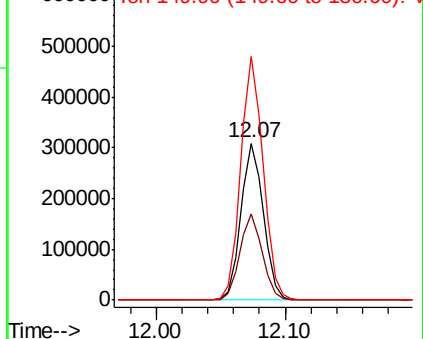
150 155.6 0.0 346.8

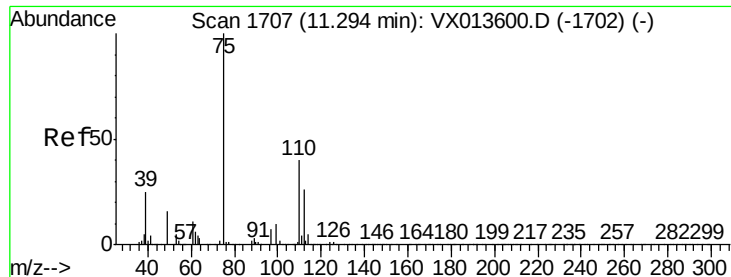


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.706 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013803.D

Acq: 06 Dec 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

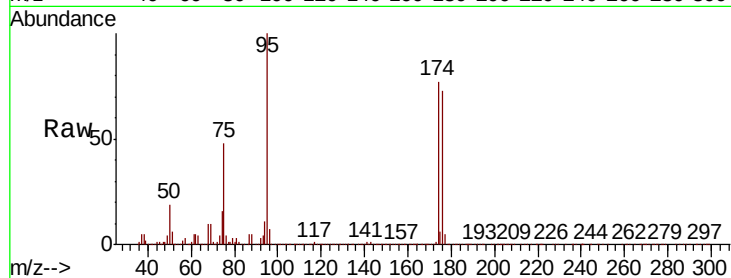
RE104D1-20191204

Tot Ion: 75 Resp: 181436

Ion Ratio Lower Upper

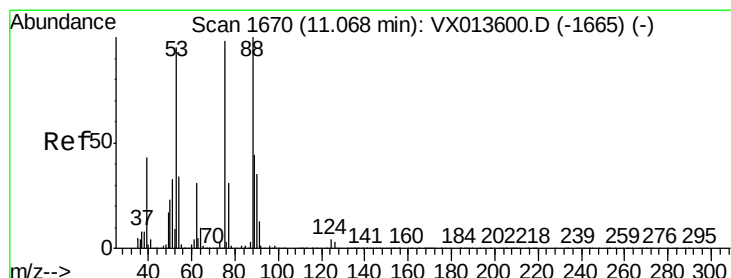
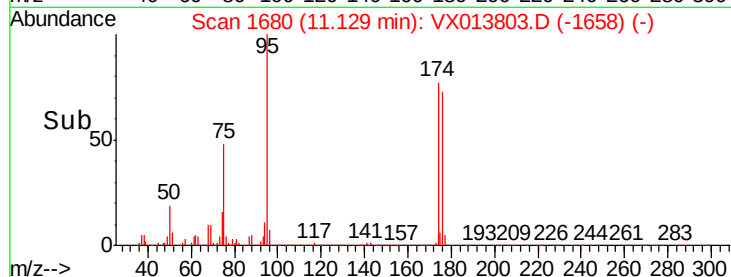
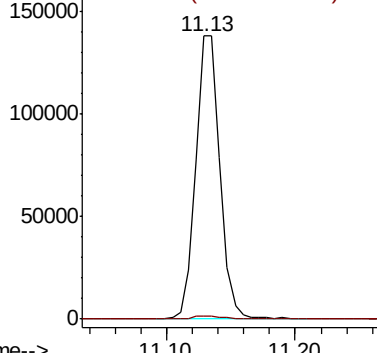
75 100

77 1.2 19.1 57.5#



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: 59.384 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013803.D

Acq: 06 Dec 2019 16:39

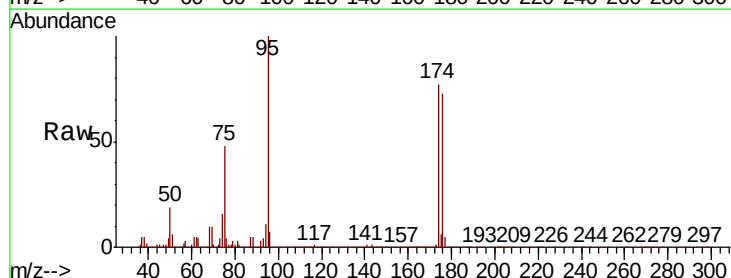
Tgt Ion: 75 Resp: 181436

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.2#

89 0.0 35.4 53.2#



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

