

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120619\
 Data File : VX013818.D
 Acq On : 06 Dec 2019 23:14
 Operator : JC/SP
 Sample : K6184-21
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE104D2-20191204

Quant Time: Dec 07 02:45:09 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	633889	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	966719	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	860216	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	372841	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	349981	47.56	ug/l	0.00
Spiked Amount			Recovery	=	95.12%	
35) Dibromofluoromethane	5.49	113	287965	48.18	ug/l	0.00
Spiked Amount			Recovery	=	96.36%	
50) Toluene-d8	8.71	98	1137136	48.84	ug/l	0.00
Spiked Amount			Recovery	=	97.68%	
62) 4-Bromofluorobenzene	11.14	95	378773	45.11	ug/l	0.00
Spiked Amount			Recovery	=	90.22%	

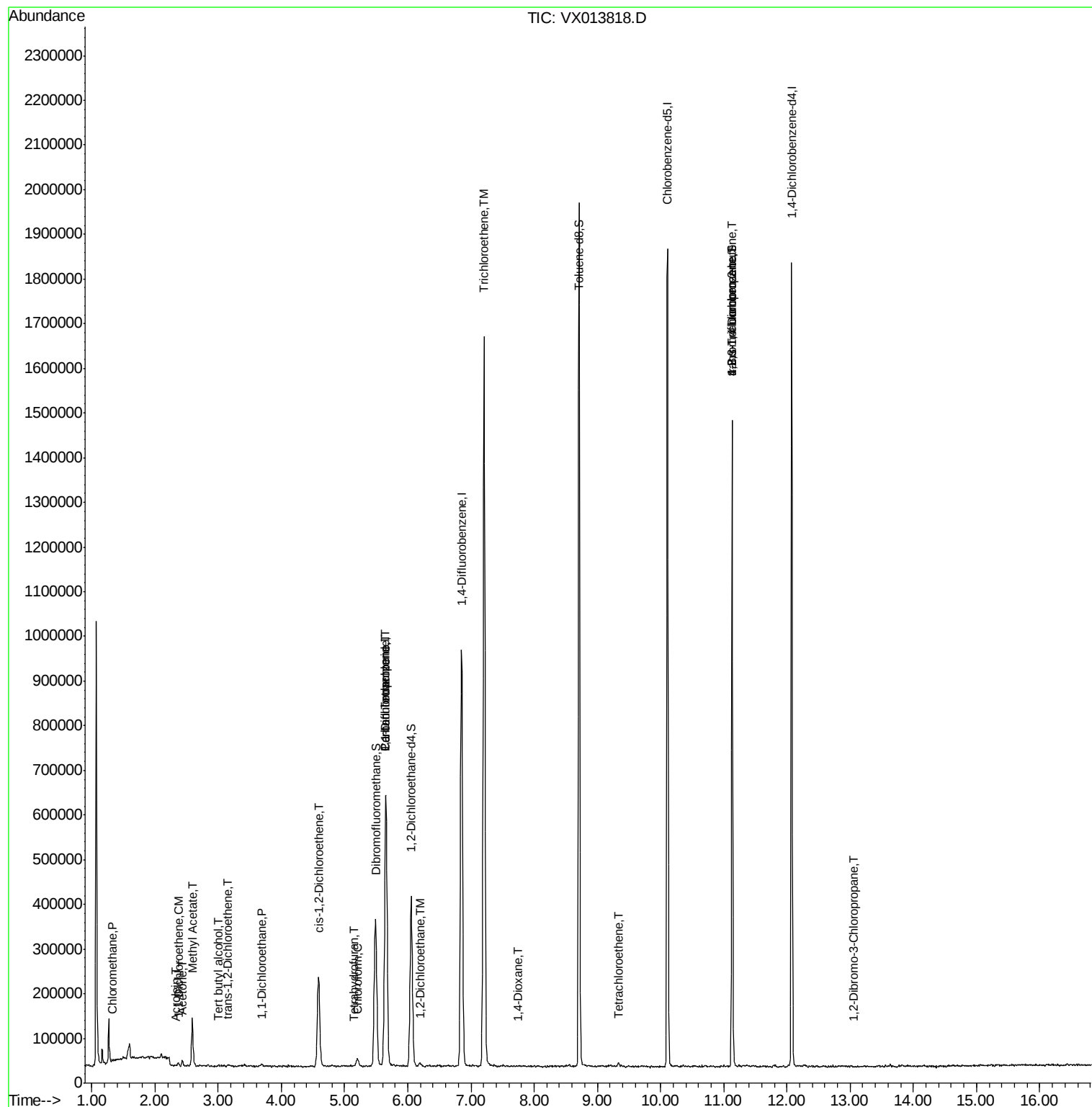
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1624	0.205	ug/l	89
11) Tert butyl alcohol	3.01	59	2796	1.539	ug/l #	81
12) 1,1-Dichloroethene	2.37	96	4144	0.687	ug/l	85
13) Acrolein	2.32	56	278	6.227	ug/l #	1
16) Acetone	2.43	43	14078	3.875	ug/l	92
18) Methyl Acetate	2.59	43	29775	2.943	ug/l #	53
21) trans-1,2-Dichloroethene	3.16	96	1391	0.212	ug/l #	53
24) 1,1-Dichloroethane	3.69	63	6004	0.521	ug/l #	93
27) cis-1,2-Dichloroethene	4.59	96	126190	16.720	ug/l	91
29) Tetrahydrofuran	5.14	42	1241	0.373	ug/l #	69
30) Chloroform	5.20	83	22785	1.950	ug/l	99
36) 1,1-Dichloropropene	5.65	75	42447	4.837	ug/l #	51
38) Carbon Tetrachloride	5.65	117	56445	6.976	ug/l #	17
42) 1,2-Dichloroethane	6.19	62	7074	0.776	ug/l	97
44) Trichloroethene	7.21	130	650917	88.740	ug/l	94
49) 1,4-Dioxane	7.74	88	660	3.744	ug/l #	74
64) Tetrachloroethene	9.33	164	1466	0.229	ug/l #	56
76) 1,2,3-Trichloropropane	11.13	75	183688	21.905	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	183688	59.927	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	13.06	75	527	0.267	ug/l	77

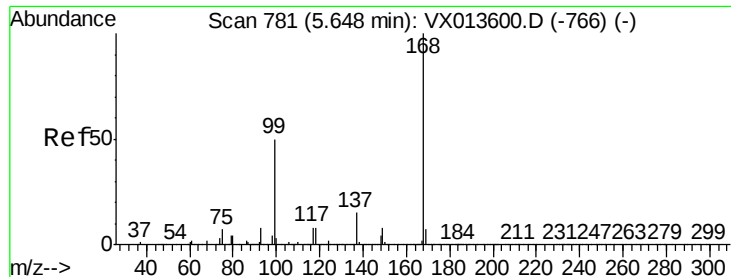
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 26 15:53:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX013818.D

Acq: 06 Dec 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

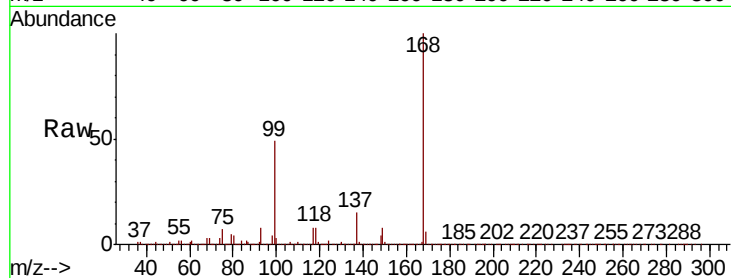
RE104D2-20191204

Tot Ion:168 Resp: 633889

Ion Ratio Lower Upper

168 100

99 49.1 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

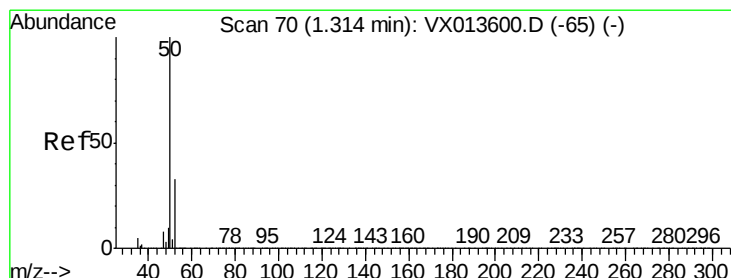
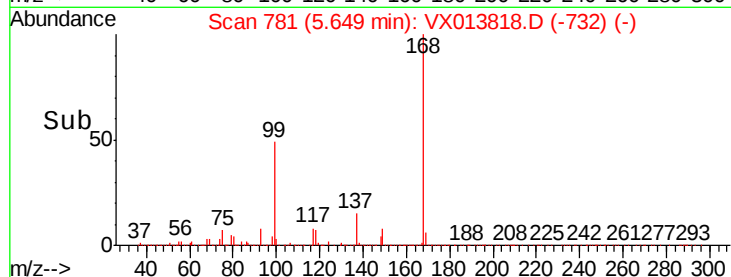
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.205 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.01 min

Lab File: VX013818.D

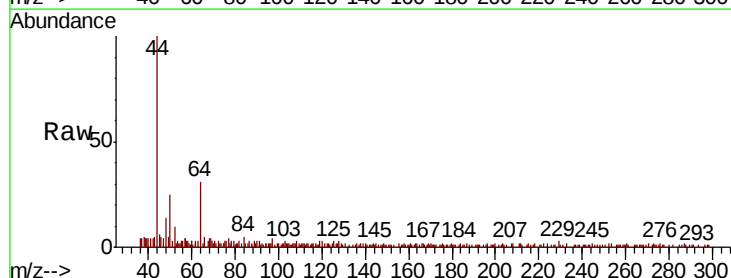
Acq: 06 Dec 2019 23:14

Tgt Ion: 50 Resp: 1624

Ion Ratio Lower Upper

50 100

52 26.5 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

2000

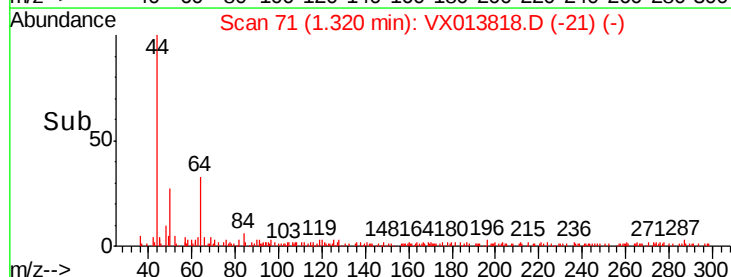
1500

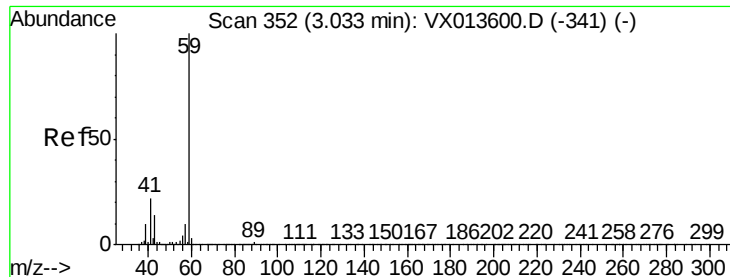
1000

500

0

Time-->



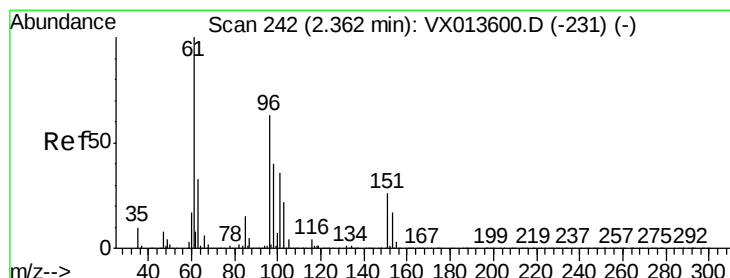
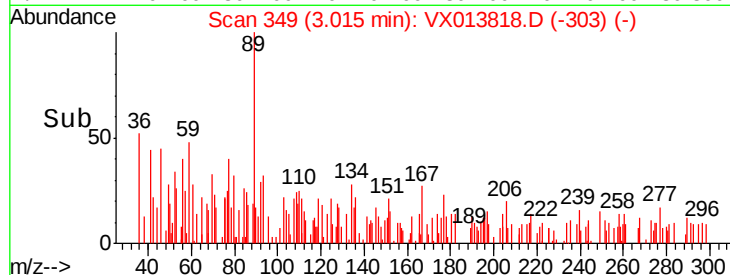
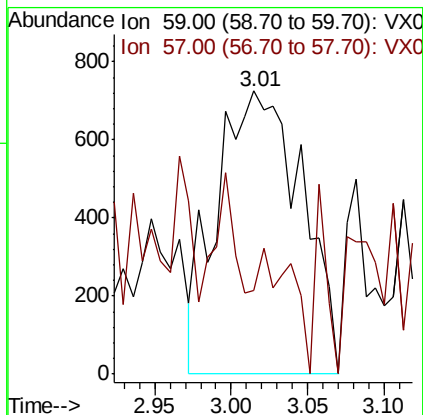
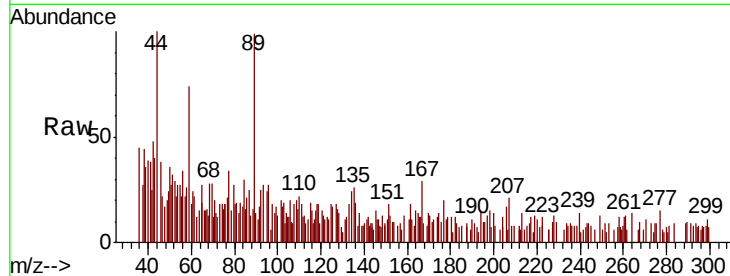


#11

Tert butyl alcohol
Concen: 1.539 ug/l
RT: 3.01 min Scan# 349
Delta R.T. -0.02 min
Lab File: VX013818.D
Acq: 06 Dec 2019 23:14

Instrument :
MSVOA_X
ClientSampleId :
RE104D2-20191204

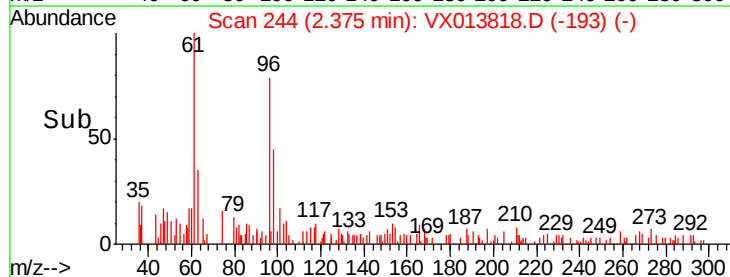
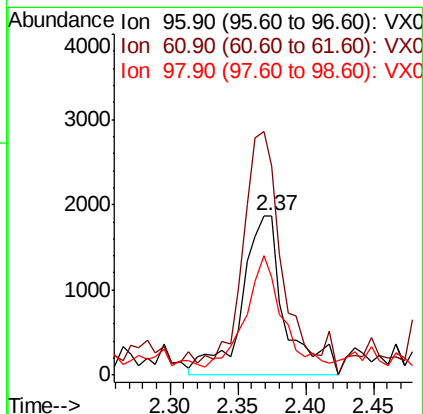
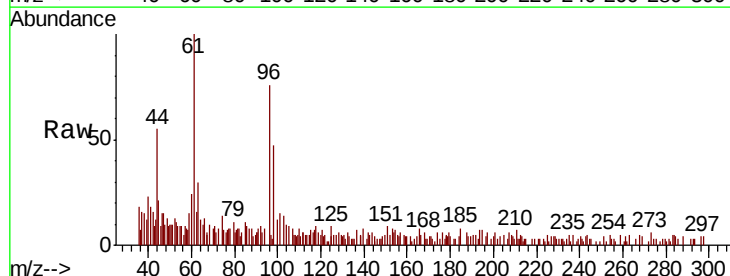
Tot Ion: 59 Resp: 2796
Ion Ratio Lower Upper
59 100
57 16.8 7.8 11.6#

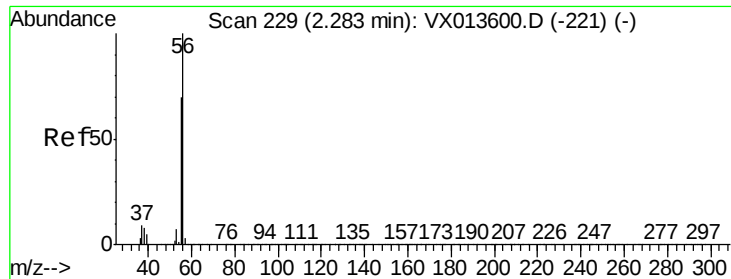


#12

1,1-Dichloroethene
Concen: 0.687 ug/l
RT: 2.37 min Scan# 244
Delta R.T. 0.01 min
Lab File: VX013818.D
Acq: 06 Dec 2019 23:14

Tgt Ion: 96 Resp: 4144
Ion Ratio Lower Upper
96 100
61 136.9 126.6 190.0
98 54.0 50.6 76.0

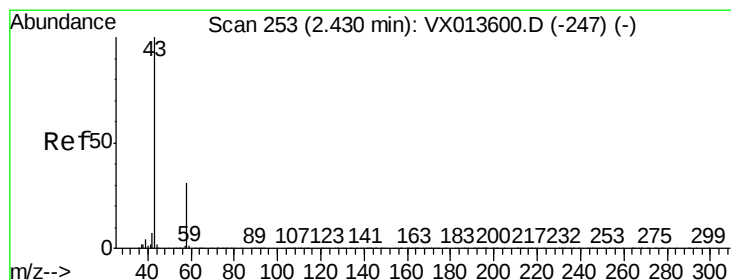
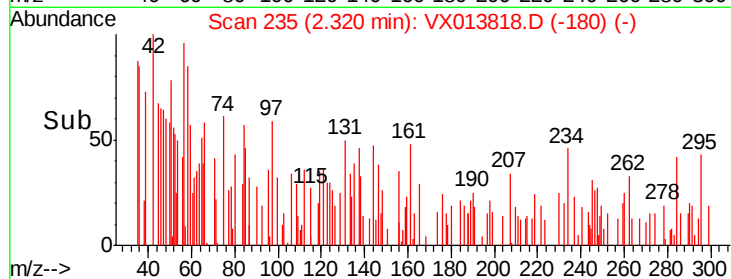
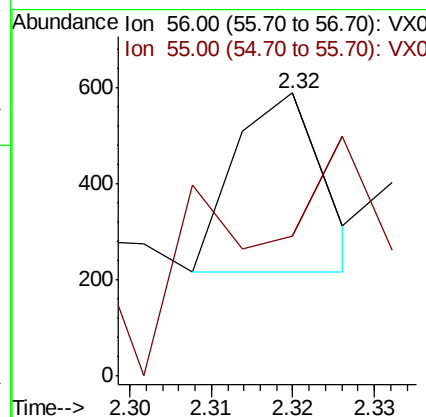
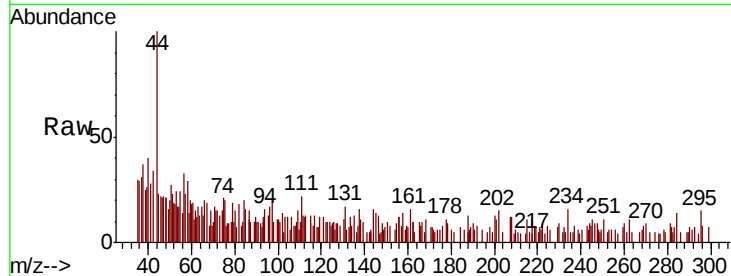




#13
Acrolein
Concen: 6.227 ug/l
RT: 2.32 min Scan# 235
Delta R.T. 0.04 min
Lab File: VX013818.D
Acq: 06 Dec 2019 23:14

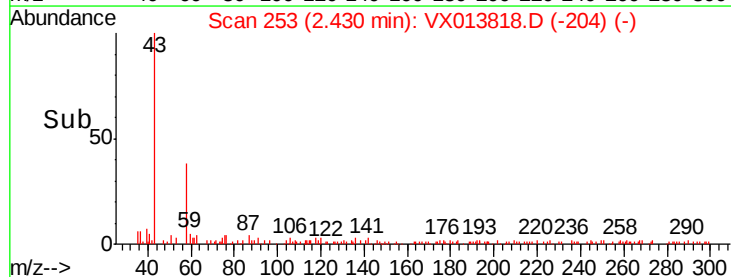
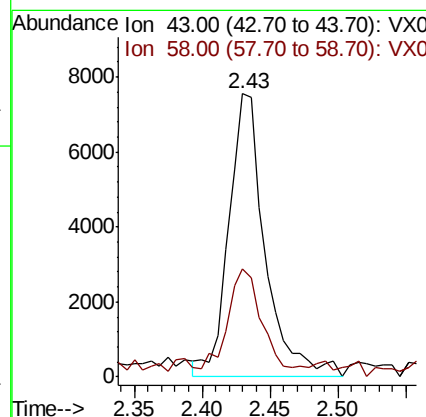
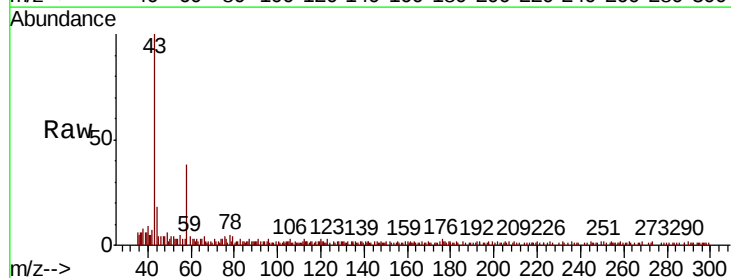
Instrument :
MSVOA_X
ClientSampleId :
RE104D2-20191204

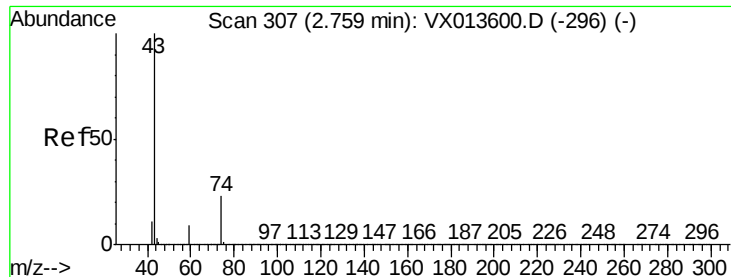
Tot Ion: 56 Resp: 278
Ion Ratio Lower Upper
56 100
55 255.0 56.2 84.4#



#16
Acetone
Concen: 3.875 ug/l
RT: 2.43 min Scan# 253
Delta R.T. 0.00 min
Lab File: VX013818.D
Acq: 06 Dec 2019 23:14

Tgt Ion: 43 Resp: 14078
Ion Ratio Lower Upper
43 100
58 35.0 24.6 36.8

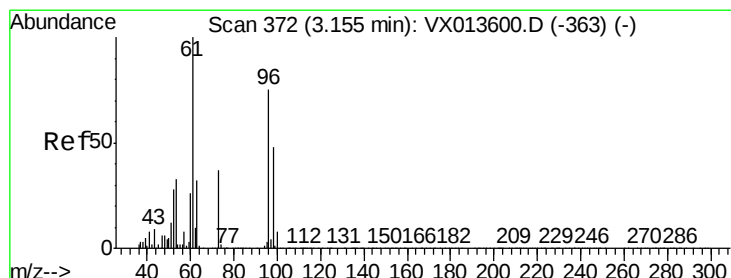
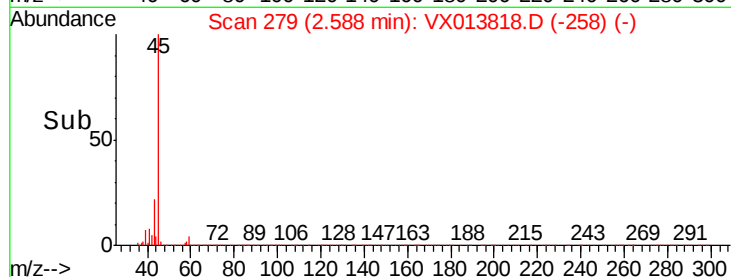
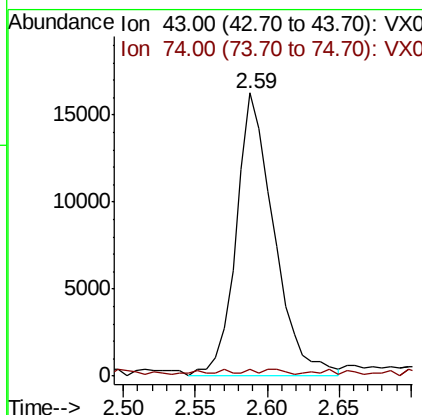
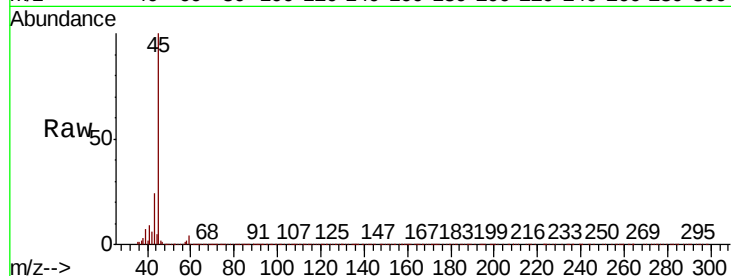




#18
Methyl Acetate
Concen: 2.943 ug/l
RT: 2.59 min Scan# 279
Delta R.T. -0.17 min
Lab File: VX013818.D
Acq: 06 Dec 2019 23:14

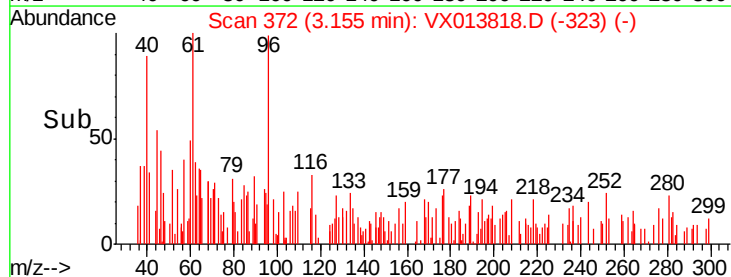
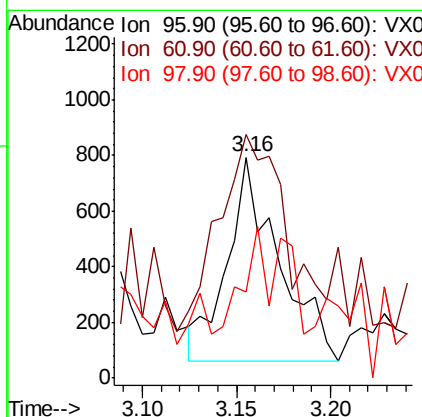
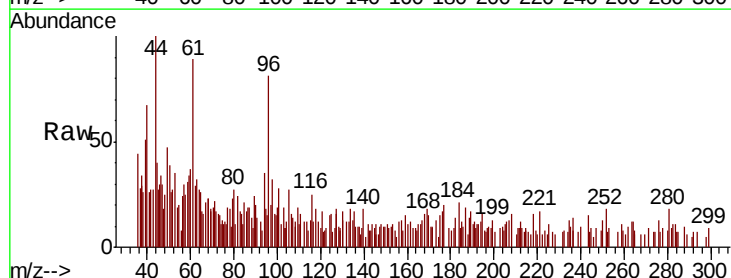
Instrument :
MSVOA_X
ClientSampleId :
RE104D2-20191204

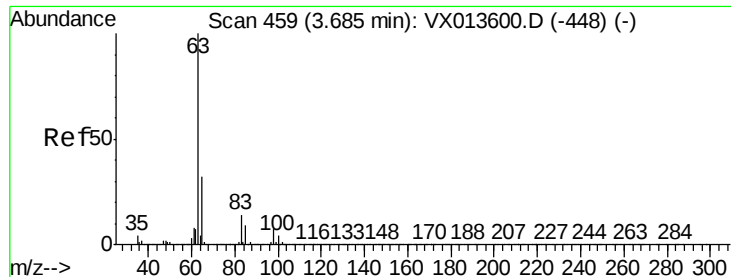
Tot Ion: 43 Resp: 29775
Ion Ratio Lower Upper
43 100
74 1.2 19.5 29.3#



#21
trans-1,2-Dichloroethene
Concen: 0.212 ug/l
RT: 3.16 min Scan# 372
Delta R.T. 0.00 min
Lab File: VX013818.D
Acq: 06 Dec 2019 23:14

Tgt Ion: 96 Resp: 1391
Ion Ratio Lower Upper
96 100
61 86.8 107.2 160.8#
98 15.6 51.4 77.0#





#24

1,1-Dichloroethane

Concen: 0.521 ug/l

RT: 3.69 min Scan# 459

Delta R.T. 0.00 min

Lab File: VX013818.D

Acq: 06 Dec 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

RE104D2-20191204

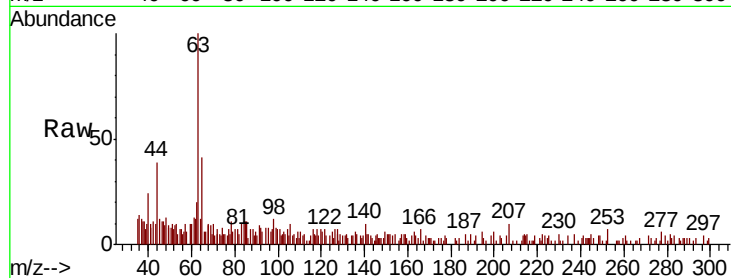
Tot Ion: 63 Resp: 6004

Ion Ratio Lower Upper

63 100

98 6.8 3.5 10.4

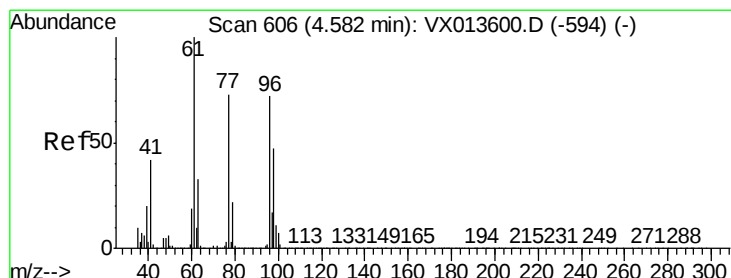
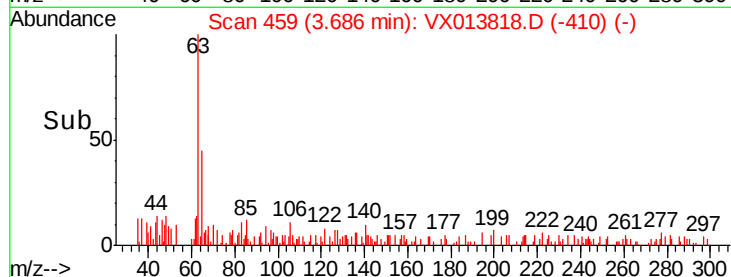
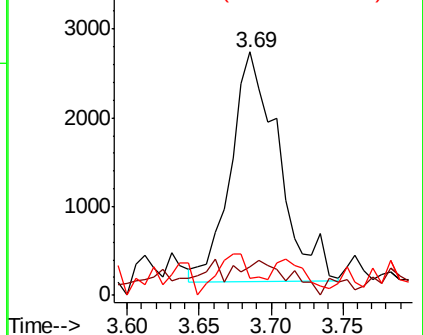
100 9.8 2.1 6.3#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 16.720 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.01 min

Lab File: VX013818.D

Acq: 06 Dec 2019 23:14

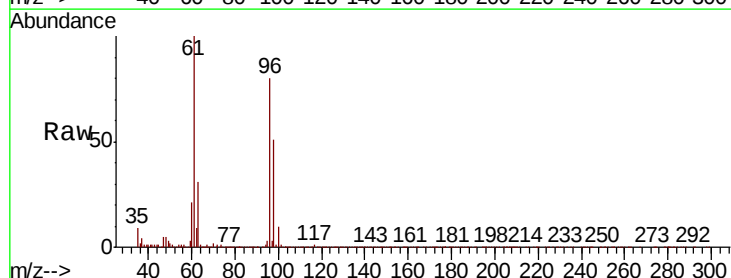
Tgt Ion: 96 Resp: 126190

Ion Ratio Lower Upper

96 100

61 128.3 0.0 286.4

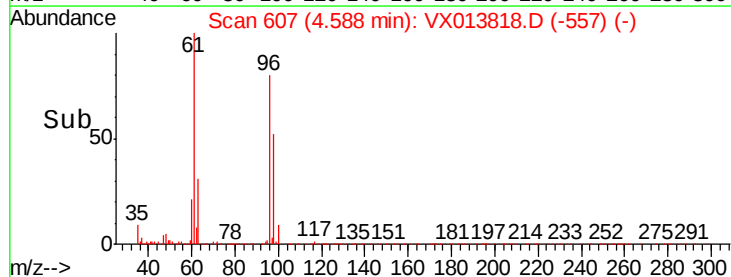
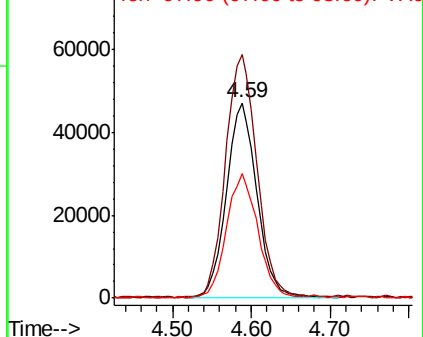
98 64.4 0.0 127.4

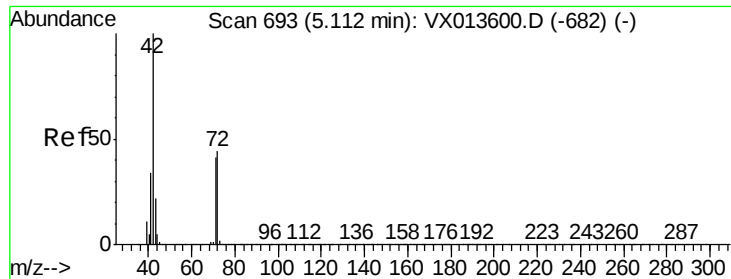


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#29

Tetrahydrofuran

Concen: 0.373 ug/l

RT: 5.14 min Scan# 697

Delta R.T. 0.02 min

Lab File: VX013818.D

Acq: 06 Dec 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

RE104D2-20191204

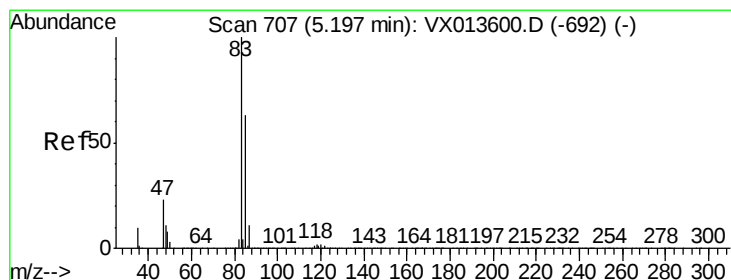
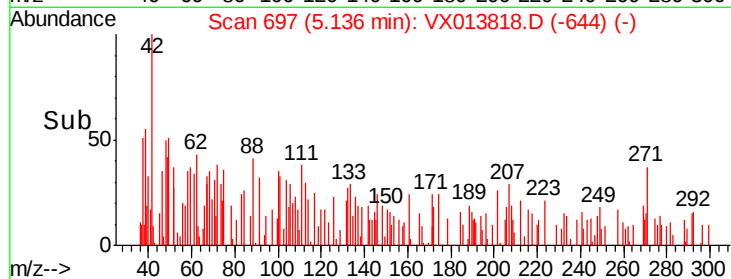
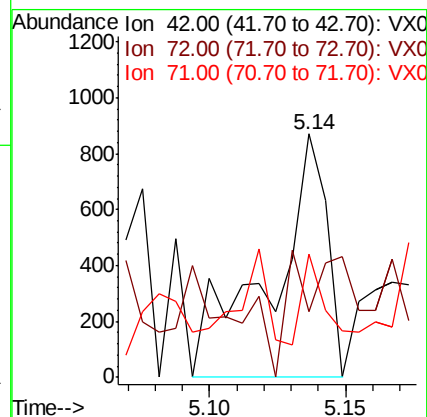
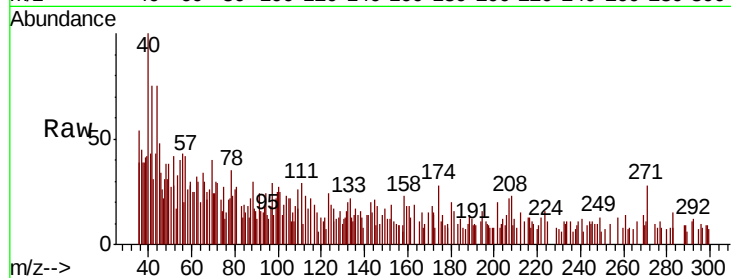
Tot Ion: 42 Resp: 1241

Ion Ratio Lower Upper

42 100

72 59.3 36.3 54.5#

71 15.9 33.2 49.8#



#30

Chloroform

Concen: 1.950 ug/l

RT: 5.20 min Scan# 708

Delta R.T. 0.01 min

Lab File: VX013818.D

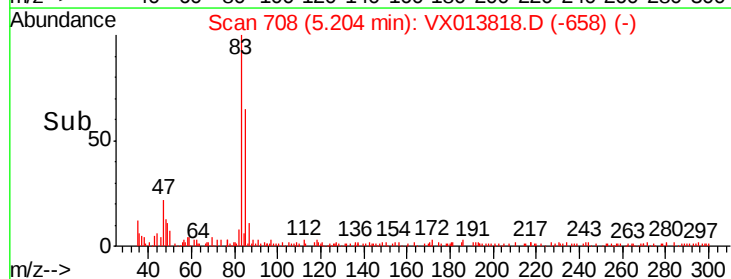
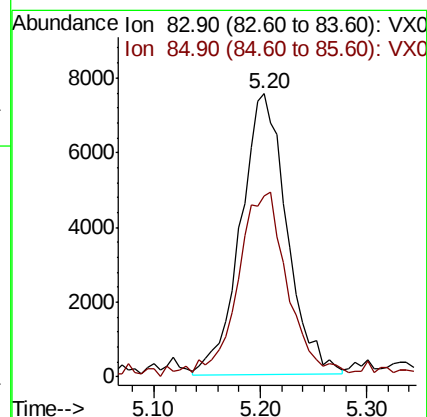
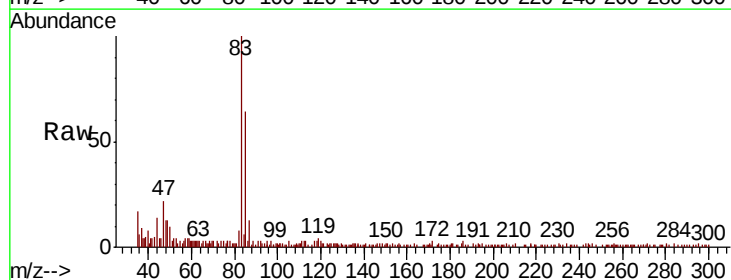
Acq: 06 Dec 2019 23:14

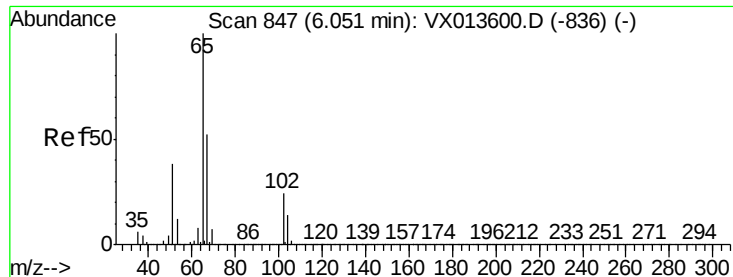
Tgt Ion: 83 Resp: 22785

Ion Ratio Lower Upper

83 100

85 63.9 50.2 75.4





#33

1,2-Dichloroethane-d4

Concen: 47.565 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013818.D

Acq: 06 Dec 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

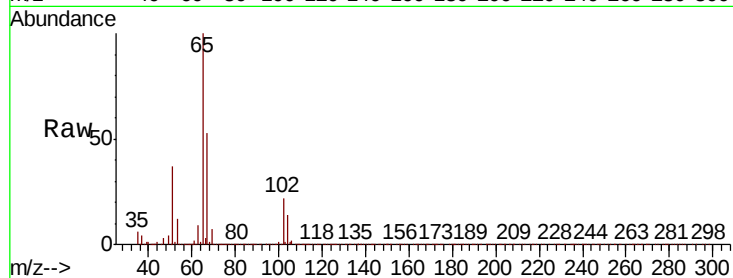
RE104D2-20191204

Tot Ion: 65 Resp: 349981

Ion Ratio Lower Upper

65 100

67 53.0 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

150000

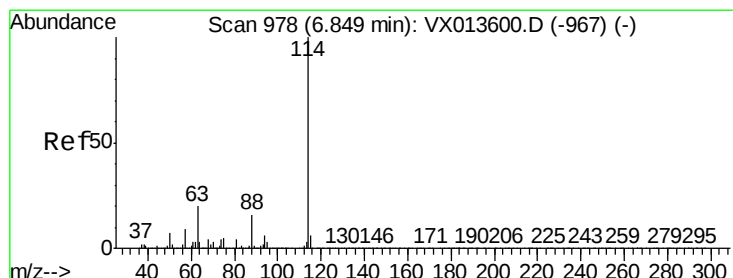
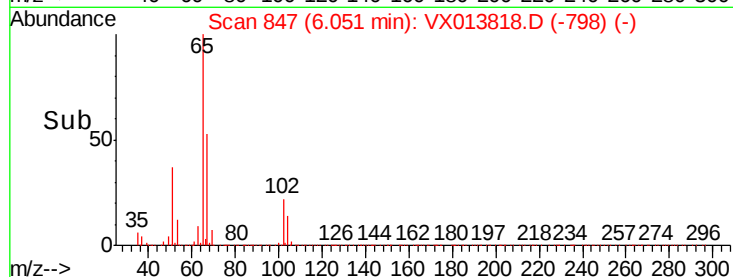
100000

50000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013818.D

Acq: 06 Dec 2019 23:14

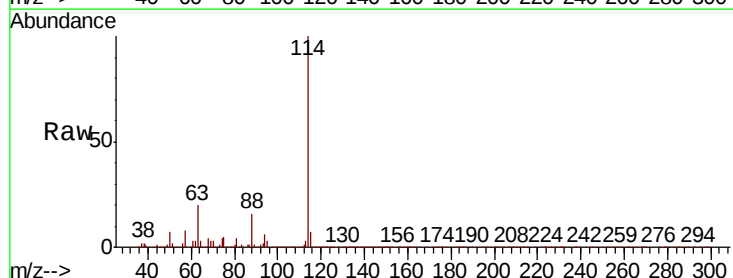
Tgt Ion: 114 Resp: 966719

Ion Ratio Lower Upper

114 100

63 19.9 0.0 39.6

88 15.8 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

6.85

500000

400000

300000

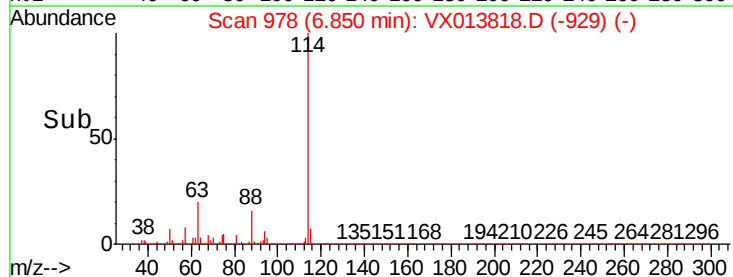
200000

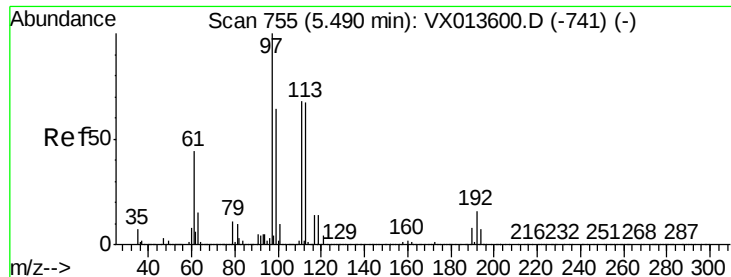
100000

0

Time-->

6.80 6.90





#35

Dibromofluoromethane

Concen: 48.184 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013818.D

Acq: 06 Dec 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

RE104D2-20191204

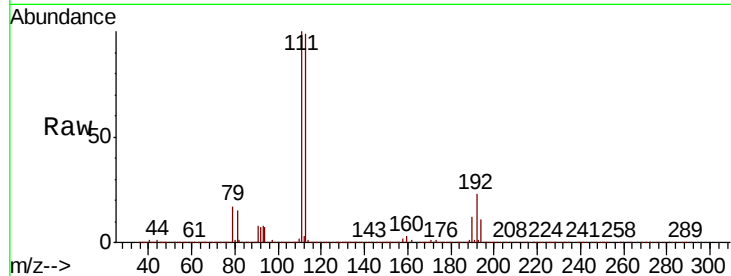
Tot Ion:113 Resp: 287965

Ion Ratio Lower Upper

113 100

111 101.6 83.6 125.4

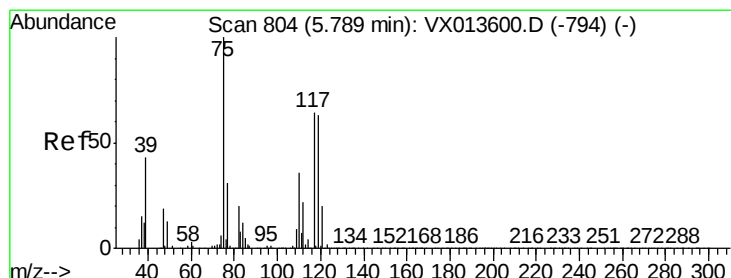
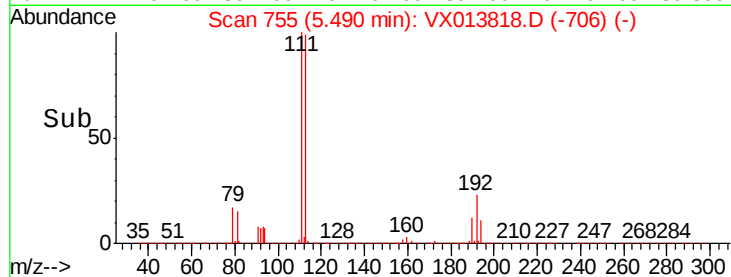
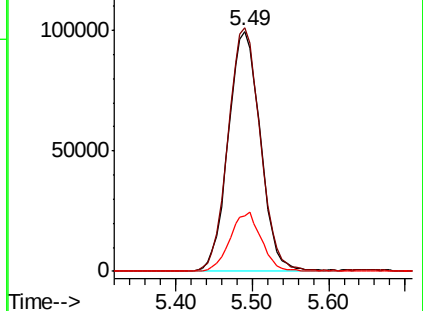
192 24.3 19.2 28.8



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: 4.837 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX013818.D

Acq: 06 Dec 2019 23:14

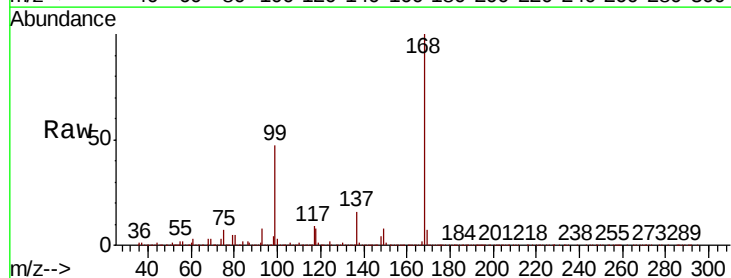
Tgt Ion: 75 Resp: 42447

Ion Ratio Lower Upper

75 100

110 9.3 18.1 54.1#

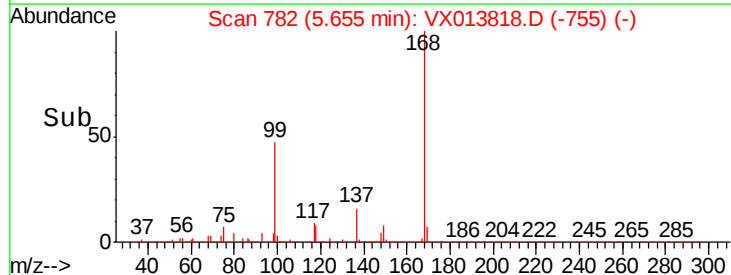
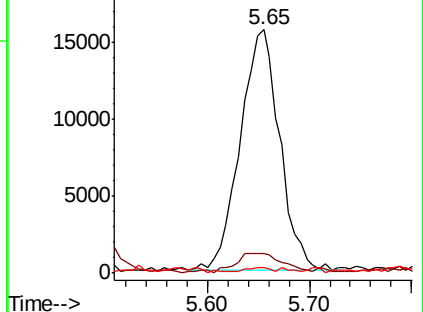
77 1.1 24.5 36.7#

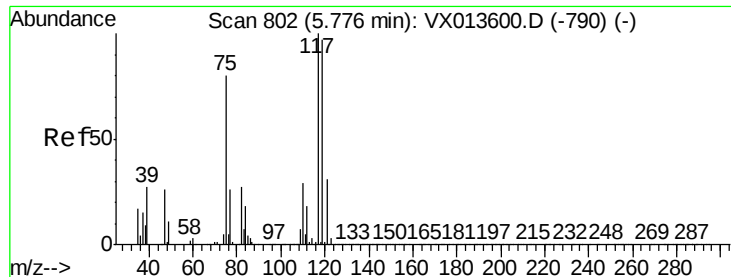


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.976 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX013818.D

Acq: 06 Dec 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

RE104D2-20191204

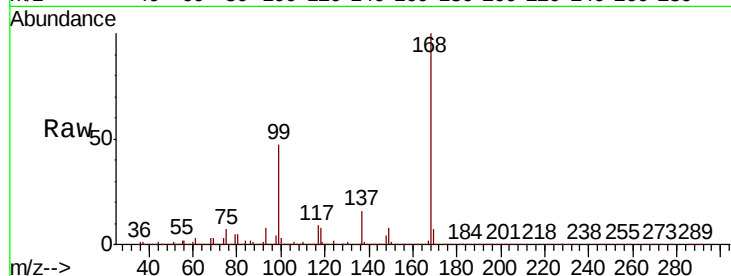
Tot Ion:117 Resp: 56445

Ion Ratio Lower Upper

117 100

119 5.9 77.5 116.3#

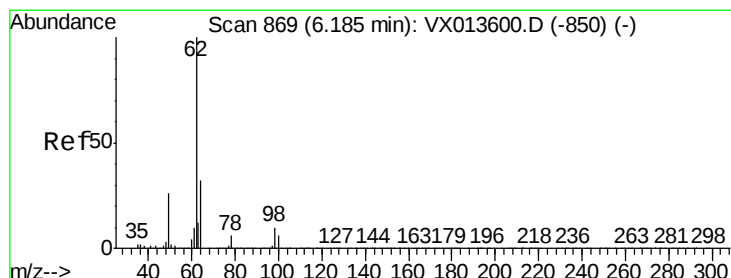
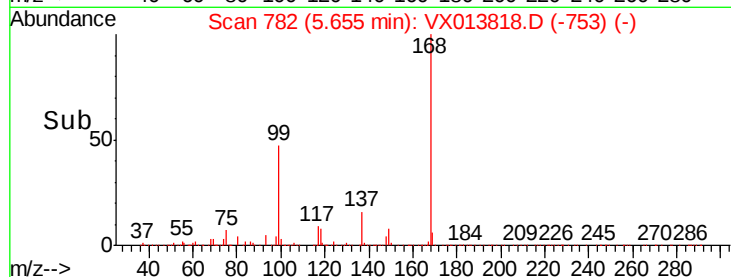
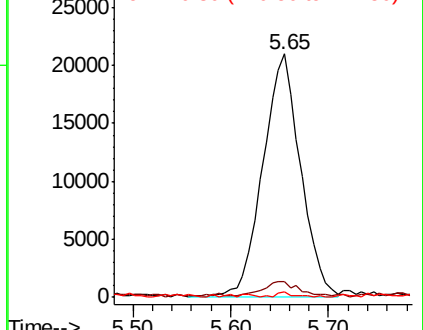
121 1.7 25.0 37.6#



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



#42

1,2-Dichloroethane

Concen: 0.776 ug/l

RT: 6.19 min Scan# 869

Delta R.T. 0.00 min

Lab File: VX013818.D

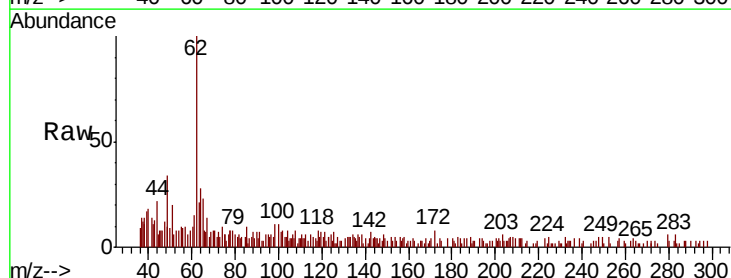
Acq: 06 Dec 2019 23:14

Tgt Ion: 62 Resp: 7074

Ion Ratio Lower Upper

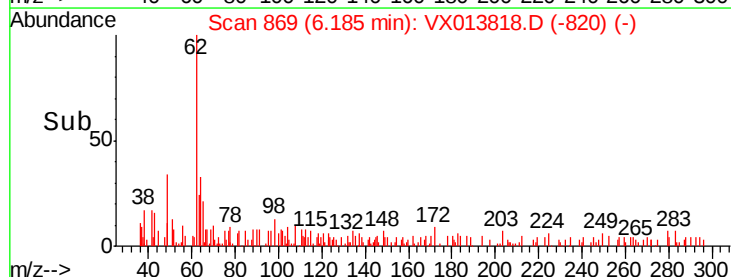
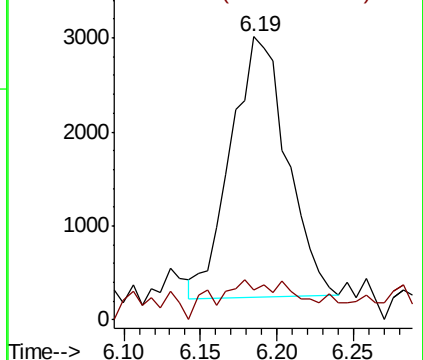
62 100

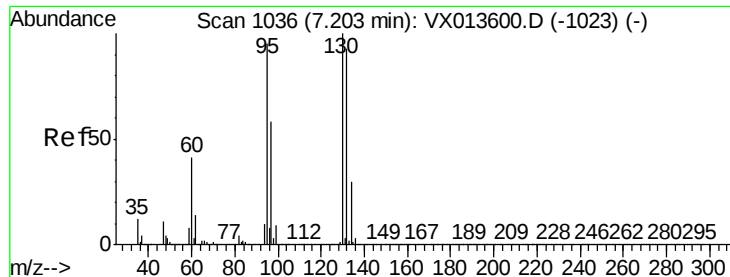
98 11.6 0.0 20.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#44

Trichloroethene

Concen: 88.740 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013818.D

Acq: 06 Dec 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

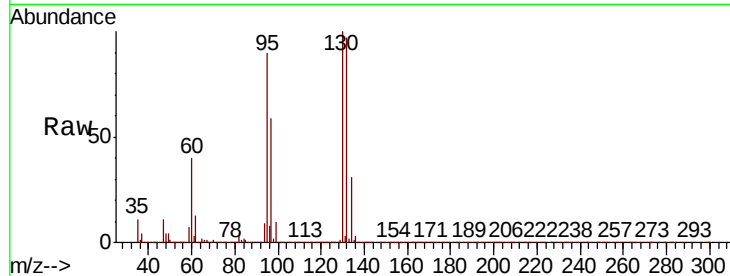
RE104D2-20191204

Tot Ion:130 Resp: 650917

Ion Ratio Lower Upper

130 100

95 89.9 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

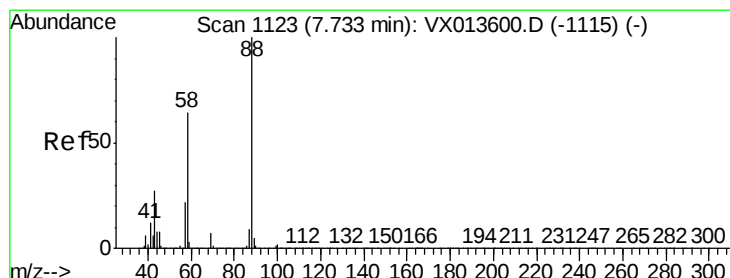
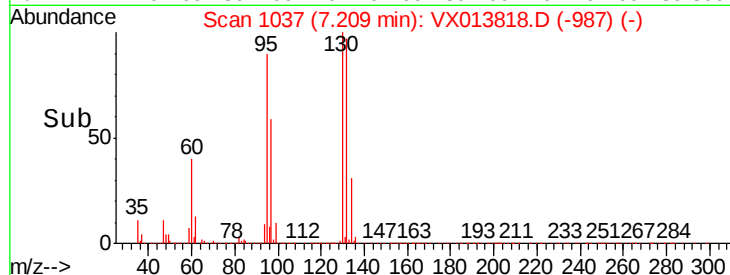
300000

200000

100000

0

Time-->



#49

1,4-Dioxane

Concen: 3.744 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VX013818.D

Acq: 06 Dec 2019 23:14

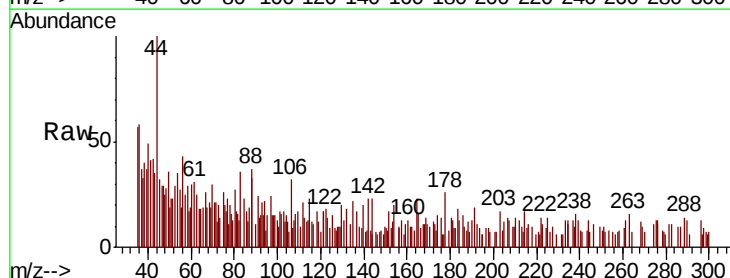
Tgt Ion: 88 Resp: 660

Ion Ratio Lower Upper

88 100

43 37.3 25.8 38.6

58 40.3 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

800

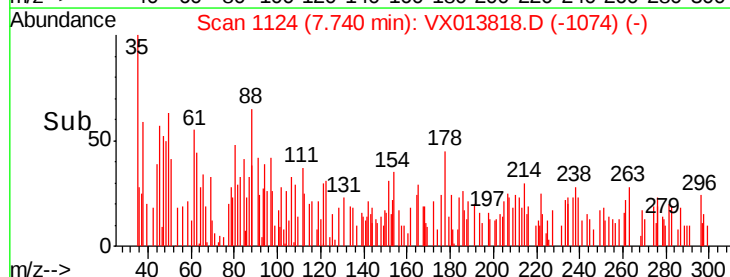
600

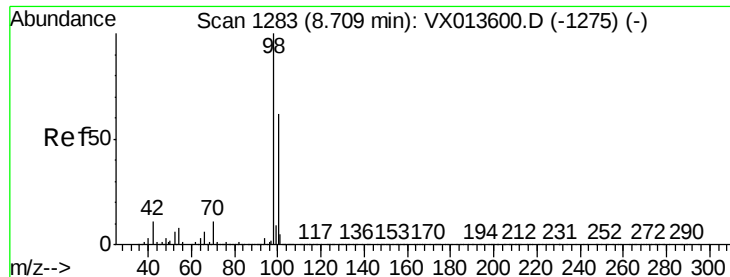
400

200

0

Time-->





#50

Toluene-d8

Concen: 48.836 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013818.D

Acq: 06 Dec 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

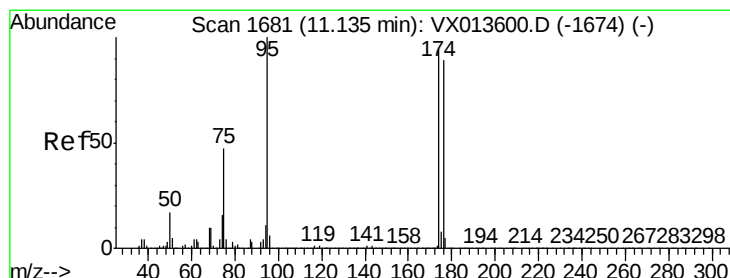
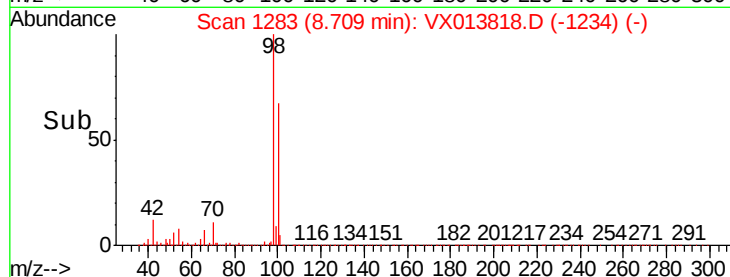
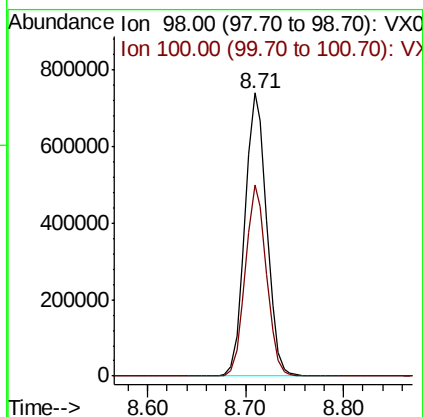
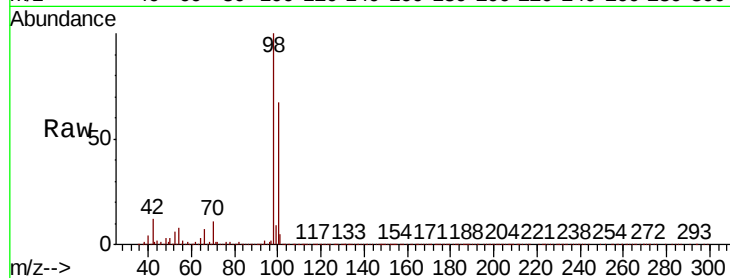
RE104D2-20191204

Tot Ion: 98 Resp: 1137136

Ion Ratio Lower Upper

98 100

100 65.9 53.1 79.7



#62

4-Bromofluorobenzene

Concen: 45.111 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX013818.D

Acq: 06 Dec 2019 23:14

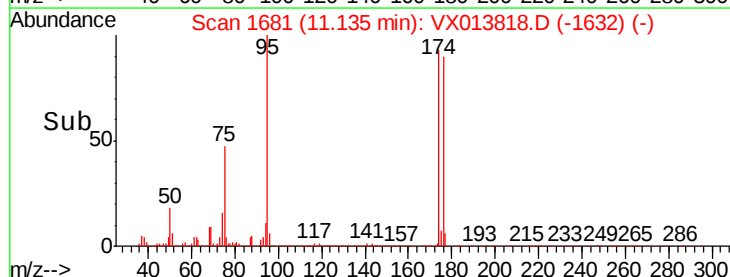
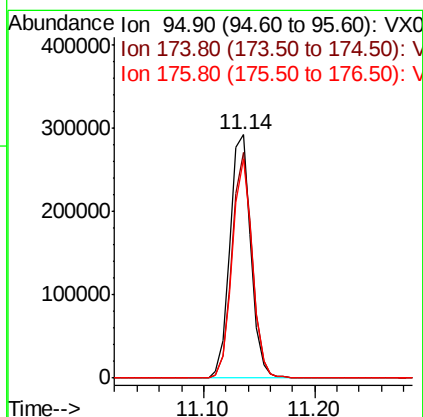
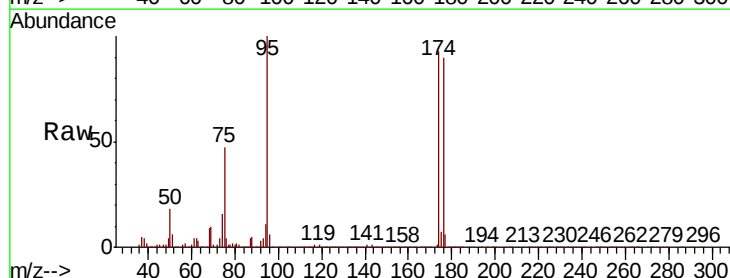
Tgt Ion: 95 Resp: 378773

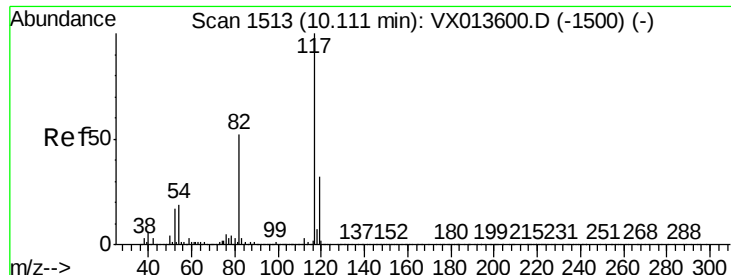
Ion Ratio Lower Upper

95 100

174 89.9 0.0 180.0

176 86.7 0.0 173.6

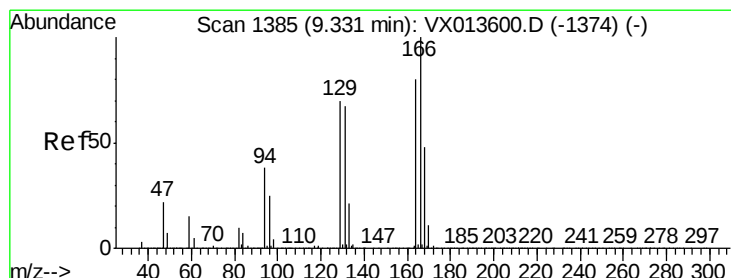
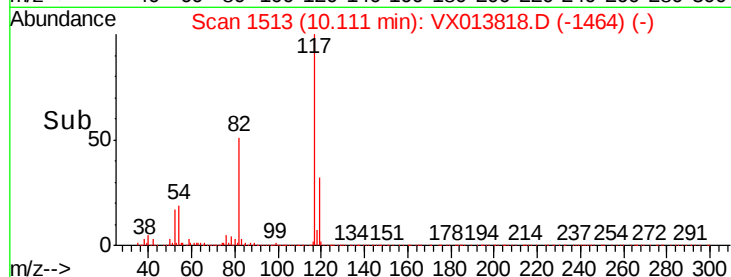
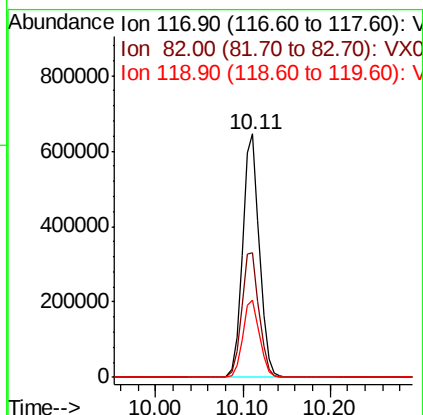
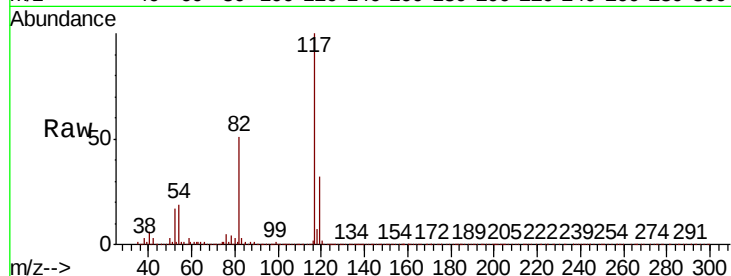




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013818.D
Acq: 06 Dec 2019 23:14

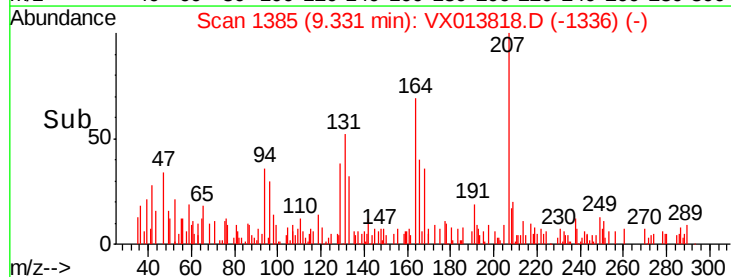
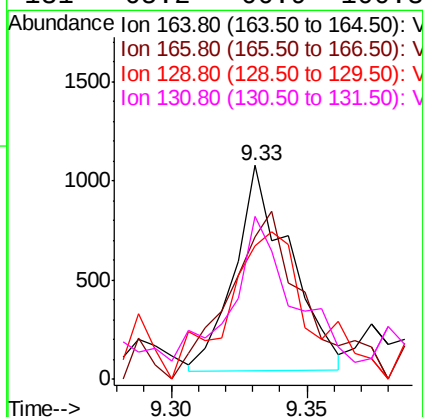
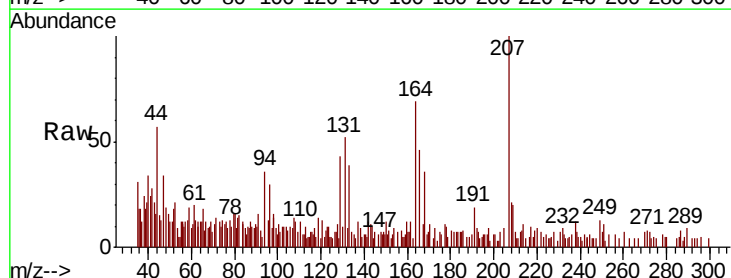
Instrument :
MSVOA_X
ClientSampleId :
RE104D2-20191204

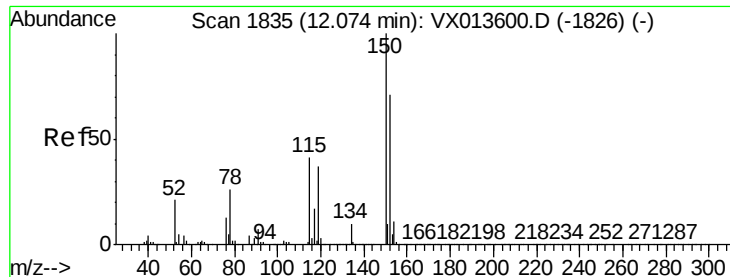
Tot Ion	Ratio	Lower	Upper
117	100		
82	51.0	41.8	62.8
119	31.9	25.8	38.8



#64
Tetrachloroethene
Concen: 0.229 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX013818.D
Acq: 06 Dec 2019 23:14

Tgt Ion	Ratio	Lower	Upper
164	100		
166	58.4	99.7	149.5#
129	43.0	70.1	105.1#
131	65.2	66.9	100.3#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013818.D

Acq: 06 Dec 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

RE104D2-20191204

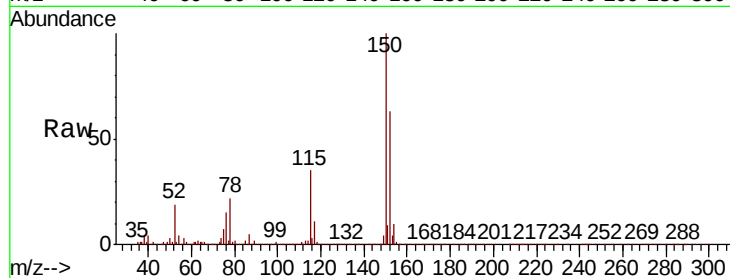
Tot Ion:152 Resp: 372841

Ion Ratio Lower Upper

152 100

115 54.4 38.4 115.1

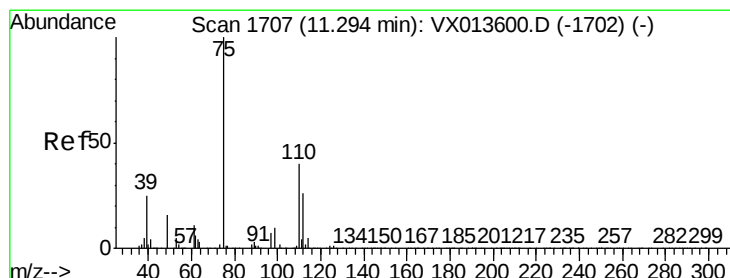
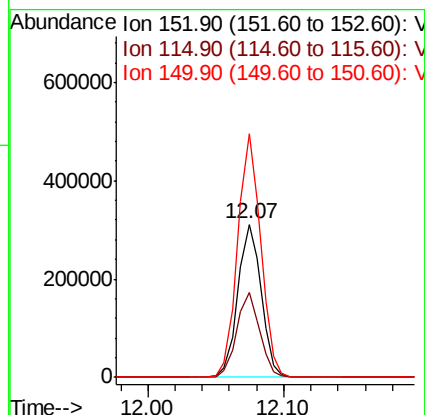
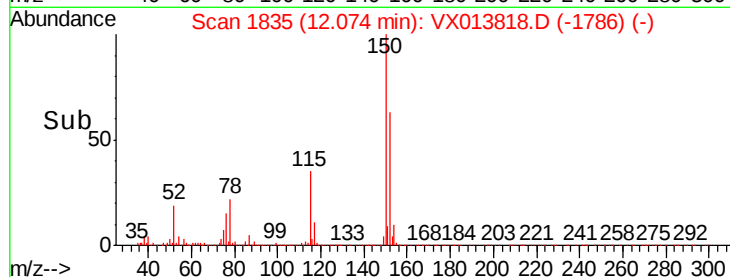
150 156.9 0.0 346.8



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: 21.905 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013818.D

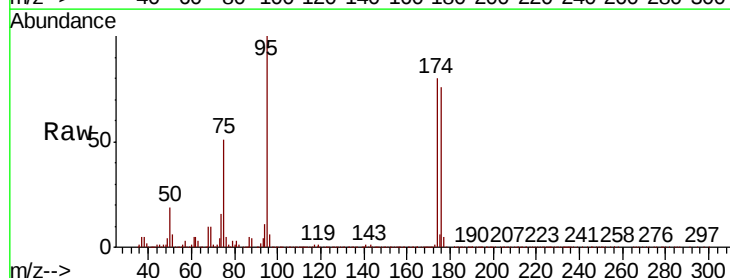
Acq: 06 Dec 2019 23:14

Tgt Ion: 75 Resp: 183688

Ion Ratio Lower Upper

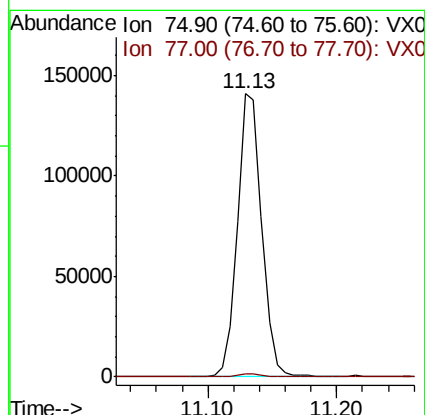
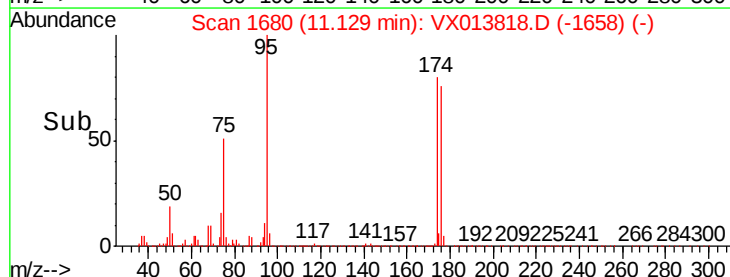
75 100

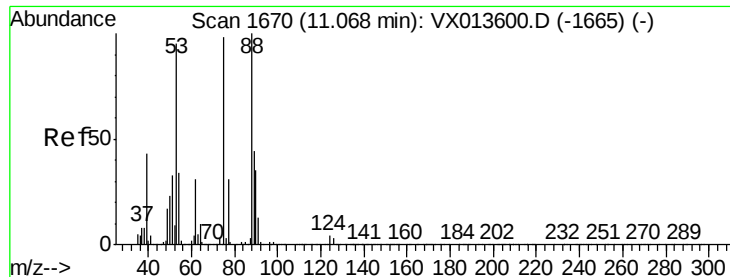
77 1.4 19.1 57.5#



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: 59.927 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013818.D

Acq: 06 Dec 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

RE104D2-20191204

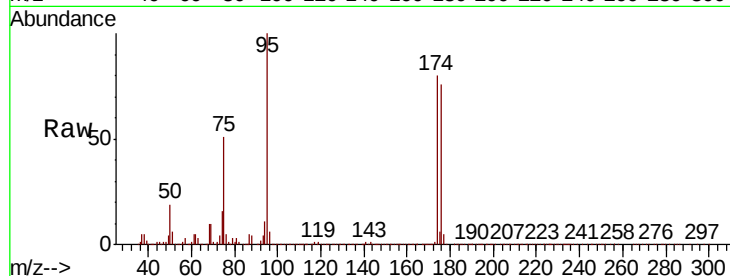
Tot Ion: 75 Resp: 183688

Ion Ratio Lower Upper

75 100

53 0.3 78.2 117.2#

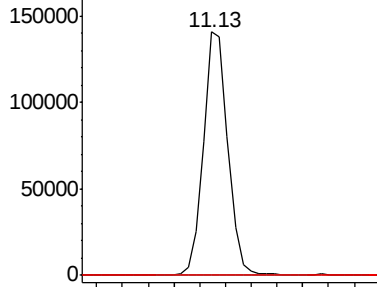
89 0.1 35.4 53.2#



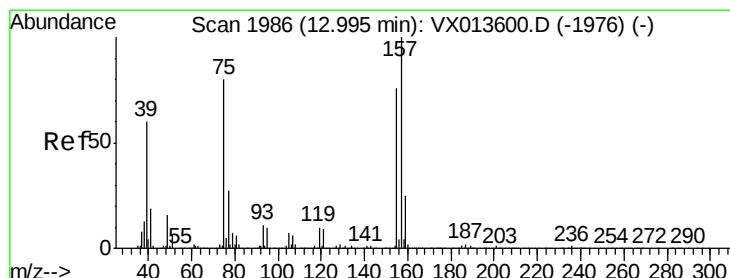
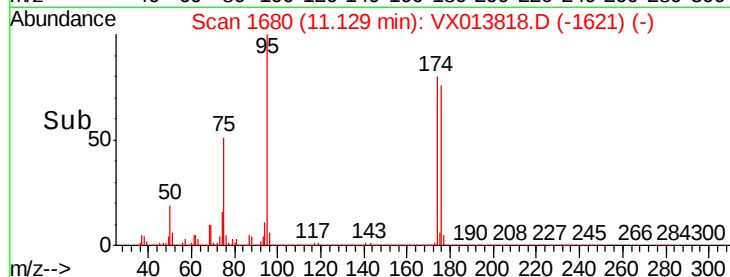
Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



Time-->



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.267 ug/l

RT: 13.06 min Scan# 1996

Delta R.T. 0.06 min

Lab File: VX013818.D

Acq: 06 Dec 2019 23:14

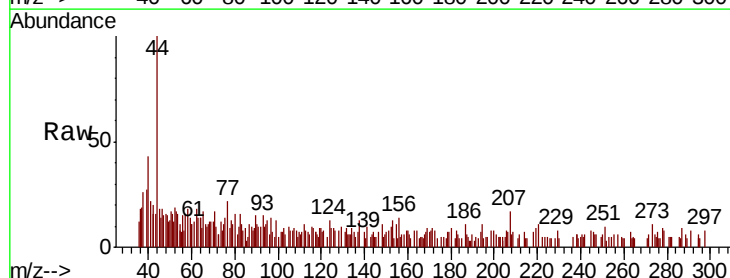
Tgt Ion: 75 Resp: 527

Ion Ratio Lower Upper

75 100

155 72.5 47.6 142.8

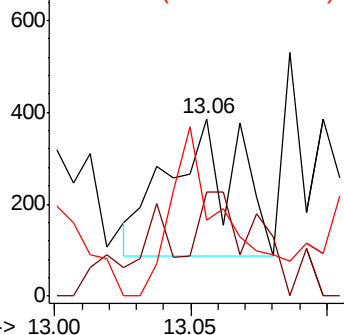
157 98.1 62.1 186.2



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



Time-->

