

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121219\
 Data File : VX013984.D
 Acq On : 12 Dec 2019 18:42
 Operator : JC/SP
 Sample : K6252-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D5-20191209

Quant Time: Dec 13 00:54:33 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	551145	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	851347	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	753888	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	316837	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	309820	48.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.86%	
35) Dibromofluoromethane	5.48	113	252742	48.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.04%	
50) Toluene-d8	8.71	98	1007142	49.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.24%	
62) 4-Bromofluorobenzene	11.14	95	329005	44.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.98%	

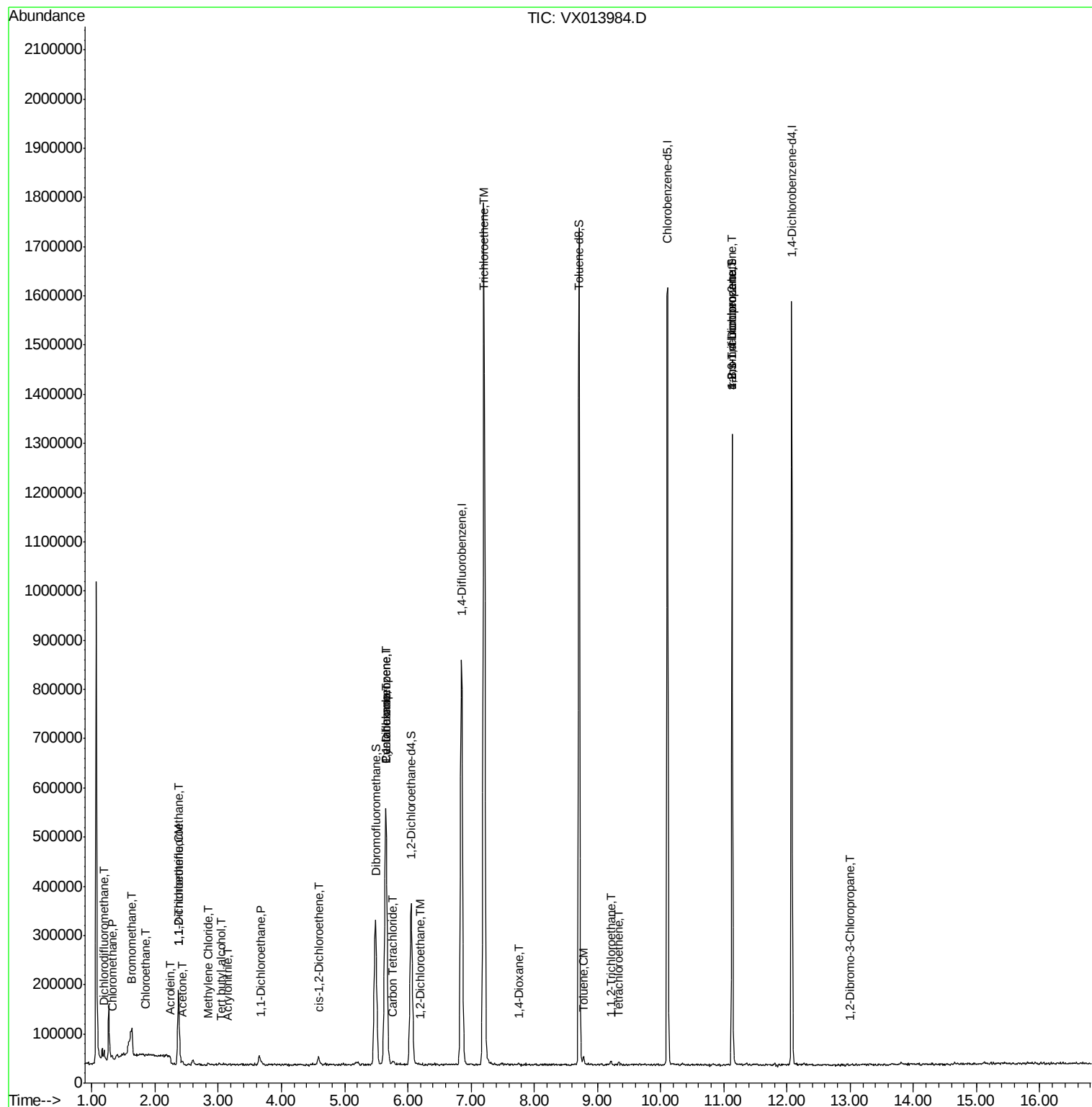
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	6864	1.119	ug/l	91
3) Chloromethane	1.32	50	2487	0.361	ug/l #	87
5) Bromomethane	1.64	94	1145	0.220	ug/l #	49
6) Chloroethane	1.85	64	2900	0.658	ug/l #	41
9) 1,1,2-Trichlorotrifluoroet	2.37	101	55204	10.506	ug/l	98
11) Tert butyl alcohol	3.05	59	885	0.560	ug/l #	38
12) 1,1-Dichloroethene	2.36	96	11916	2.272	ug/l	96
13) Acrolein	2.25	56	169	6.160	ug/l #	15
15) Acrylonitrile	3.15	53	1249	0.383	ug/l #	24
16) Acetone	2.44	43	5903	1.869	ug/l #	85
20) Methylene Chloride	2.85	84	1544	0.254	ug/l #	68
24) 1,1-Dichloroethane	3.69	63	6420	0.641	ug/l #	89
27) cis-1,2-Dichloroethene	4.59	96	9494	1.447	ug/l	88
31) Cyclohexane	5.65	56	9733	1.030	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	37704	4.879	ug/l #	51
38) Carbon Tetrachloride	5.76	117	6433	0.903	ug/l #	76
42) 1,2-Dichloroethane	6.18	62	3007	0.375	ug/l	87
44) Trichloroethene	7.20	130	701622	108.615	ug/l	100
49) 1,4-Dioxane	7.75	88	2538	16.350	ug/l #	62
52) Toluene	8.78	92	7670	0.525	ug/l	99
55) 1,1,2-Trichloroethane	9.21	97	3137	0.532	ug/l	93
64) Tetrachloroethene	9.34	164	1295	0.230	ug/l #	54
76) 1,2,3-Trichloropropane	11.13	75	159701	22.410	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	159701	61.311	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.98	75	379	0.226	ug/l #	1

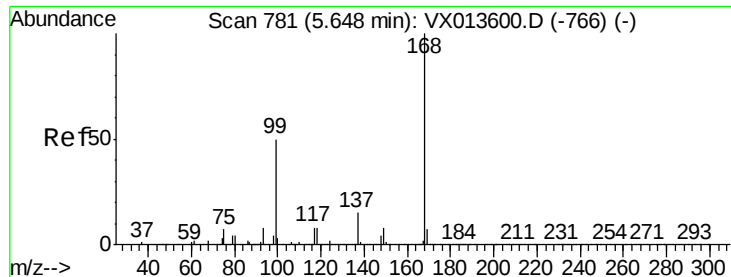
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX121219\
Data File : VX013984.D
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Quant Time: Dec 13 00:54:33 2019
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# 782

Delta R.T. 0.01 min

Lab File: VX013984.D

Acq: 12 Dec 2019 18:42

Instrument :

MSVOA_X

ClientSampleId :

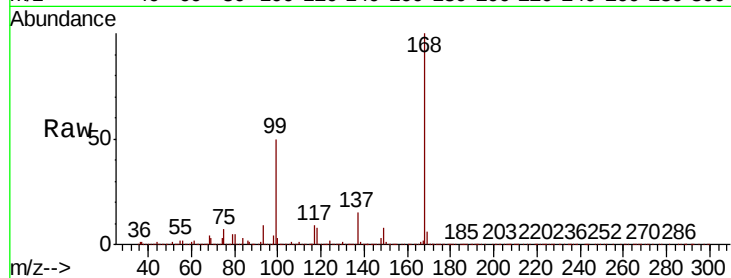
RE132D5-20191209

Tot Ion:168 Resp: 551145

Ion Ratio Lower Upper

168 100

99 49.5 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

200000

150000

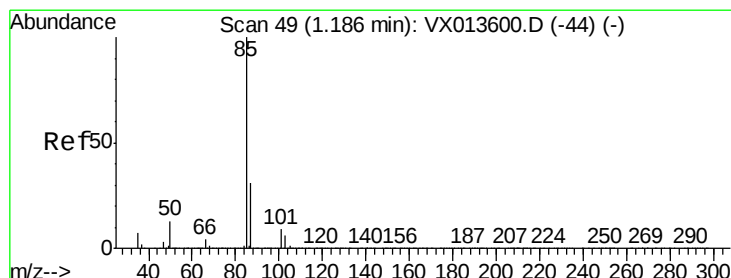
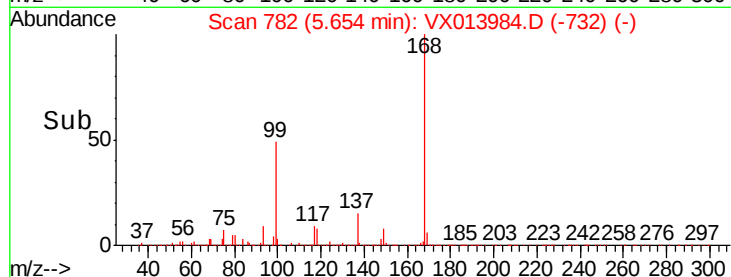
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 1.119 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.01 min

Lab File: VX013984.D

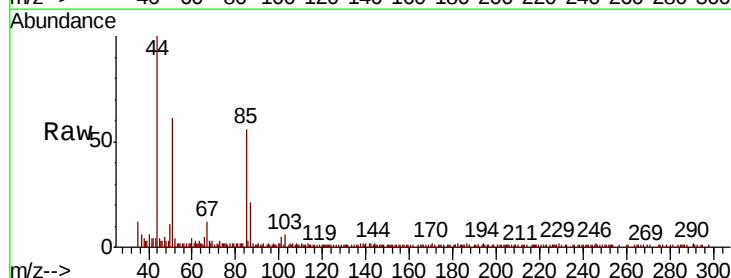
Acq: 12 Dec 2019 18:42

Tgt Ion: 85 Resp: 6864

Ion Ratio Lower Upper

85 100

87 36.4 15.7 47.1



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

6000

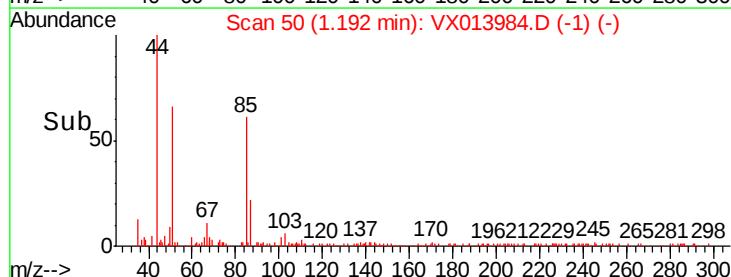
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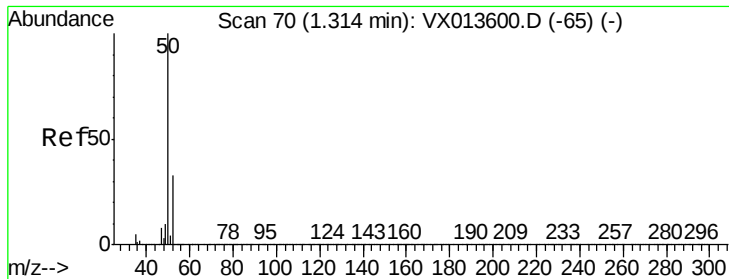
2000

0

Time-->

1.15 1.20 1.25





#3

Chloromethane

Concen: 0.361 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.01 min

Lab File: VX013984.D

Acq: 12 Dec 2019 18:42

Instrument :

MSVOA_X

ClientSampleId :

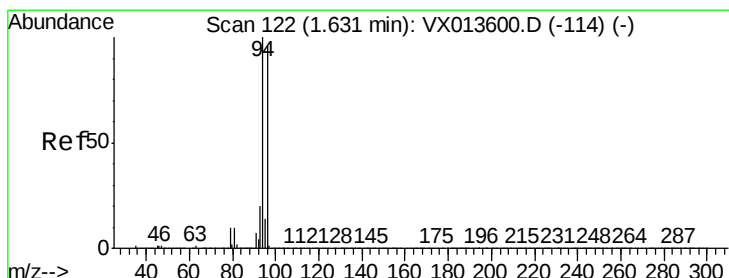
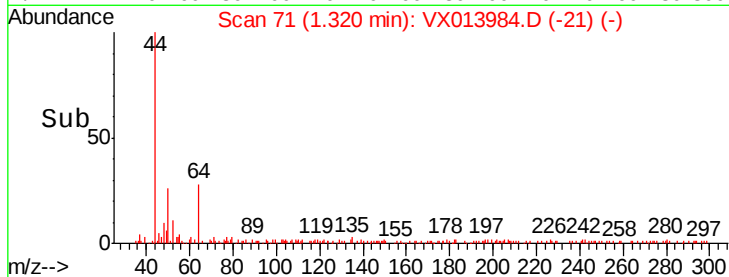
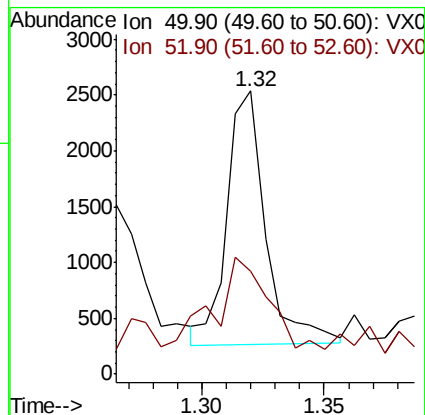
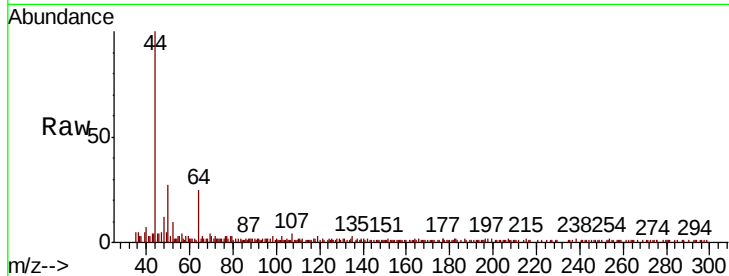
RE132D5-20191209

Tot Ion: 50 Resp: 2487

Ion Ratio Lower Upper

50 100

52 25.2 26.0 39.0#



#5

Bromomethane

Concen: 0.220 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX013984.D

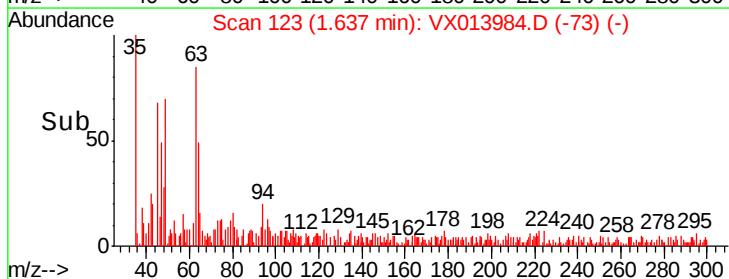
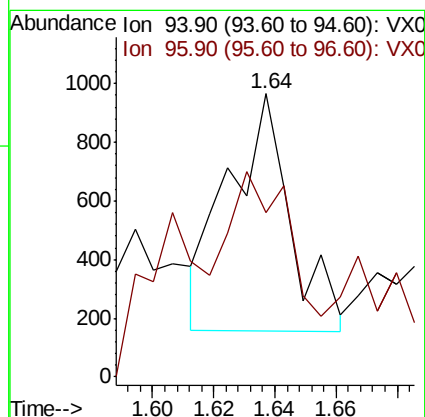
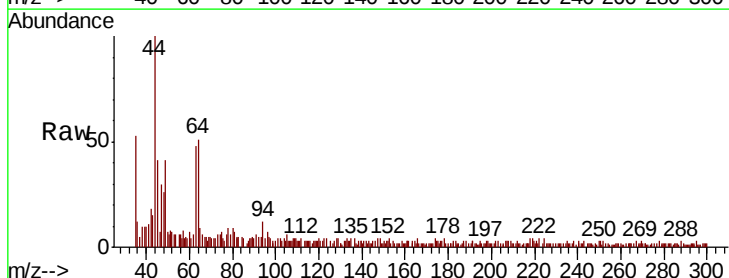
Acq: 12 Dec 2019 18:42

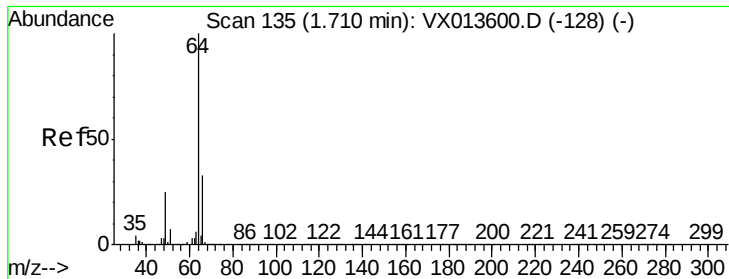
Tgt Ion: 94 Resp: 1145

Ion Ratio Lower Upper

94 100

96 46.0 77.0 115.4#





#6

Chloroethane

Concen: 0.658 ug/l

RT: 1.85 min Scan# 158

Delta R.T. 0.14 min

Lab File: VX013984.D

Acq: 12 Dec 2019 18:42

Instrument :

MSVOA_X

ClientSampleId :

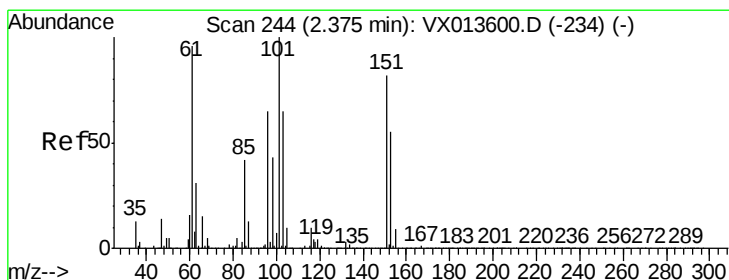
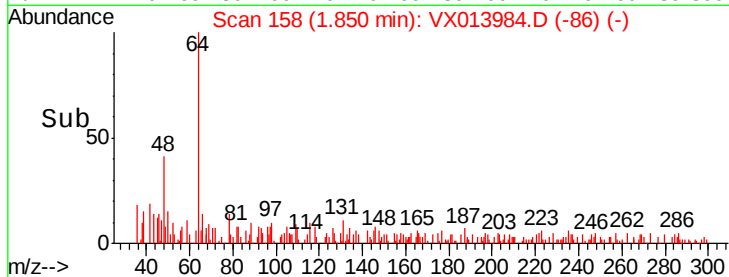
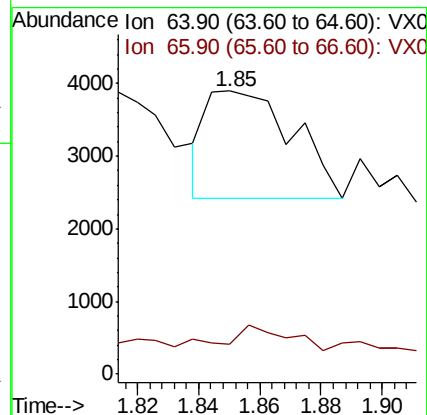
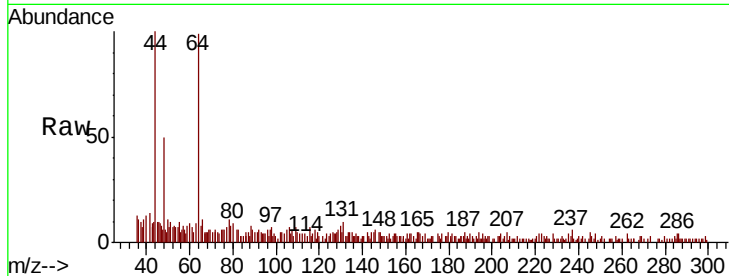
RE132D5-20191209

Tot Ion: 64 Resp: 2900

Ion Ratio Lower Upper

64 100

66 0.0 26.7 40.1#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 10.506 ug/l

RT: 2.37 min Scan# 244

Delta R.T. -0.00 min

Lab File: VX013984.D

Acq: 12 Dec 2019 18:42

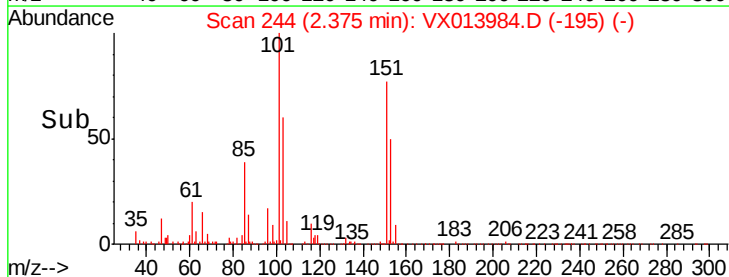
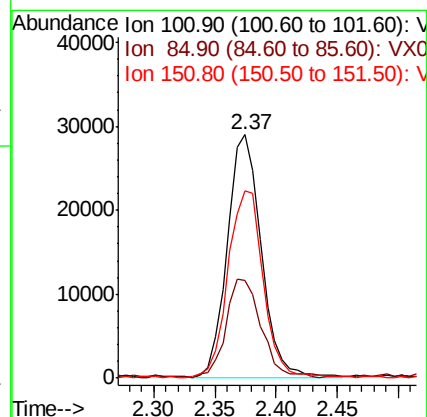
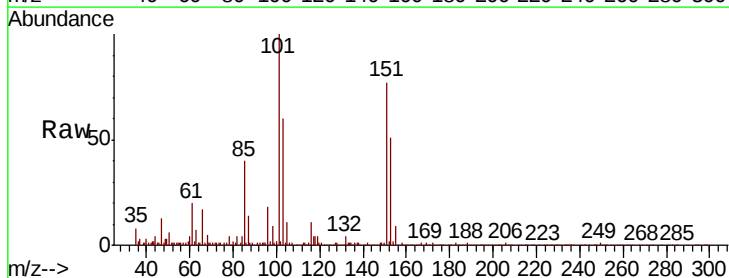
Tgt Ion: 101 Resp: 55204

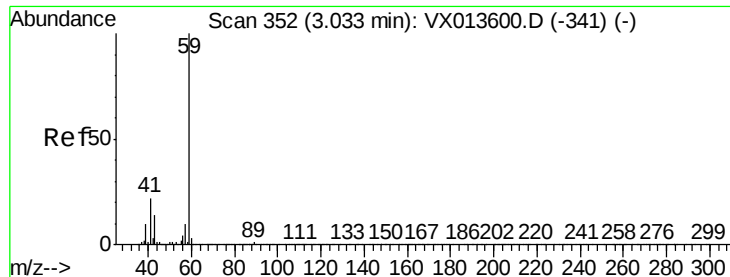
Ion Ratio Lower Upper

101 100

85 41.4 33.9 50.9

151 81.6 64.2 96.2



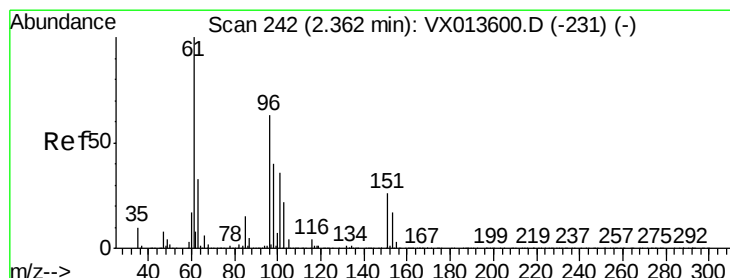
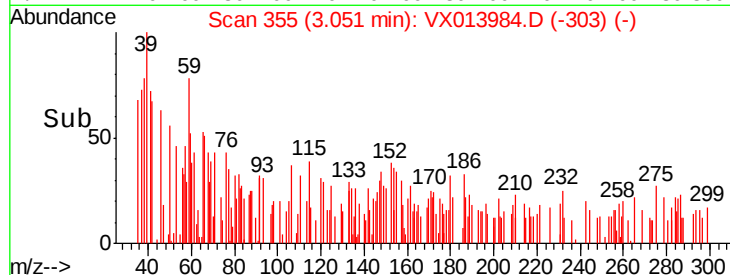
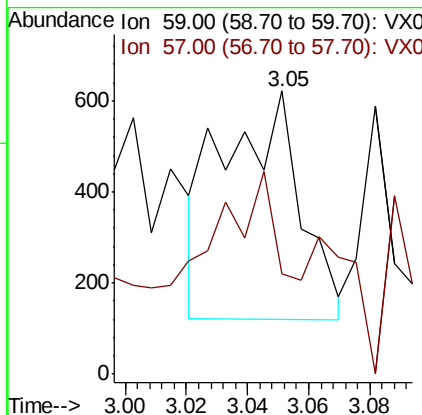
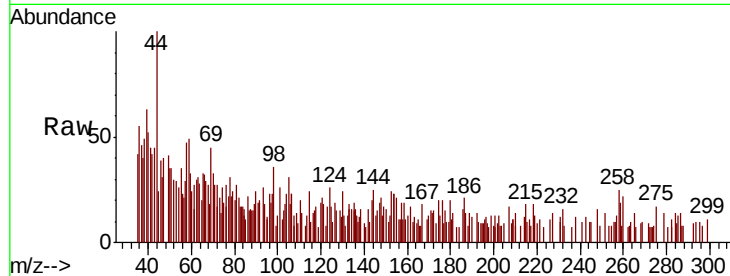


#11

Tert butyl alcohol
Concen: 0.560 ug/l
RT: 3.05 min Scan# 355
Delta R.T. 0.02 min
Lab File: VX013984.D
Acq: 12 Dec 2019 18:42

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20191209

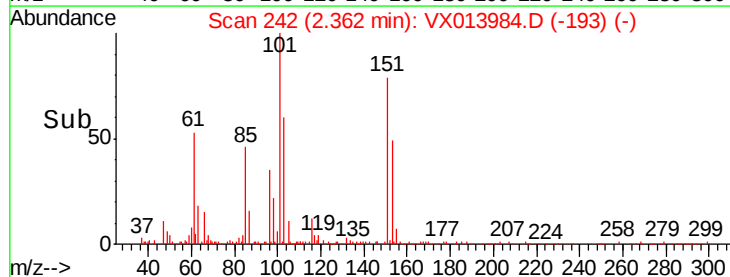
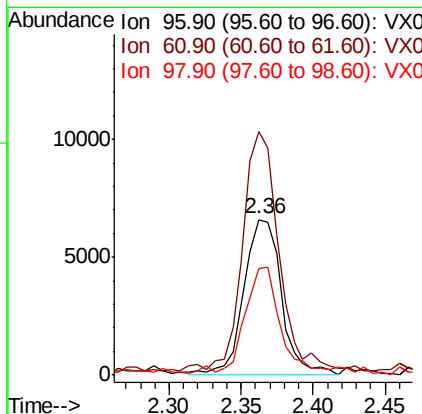
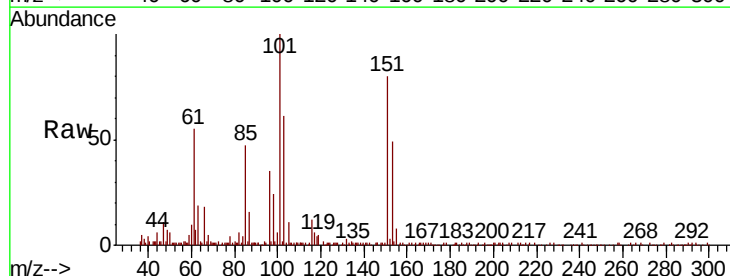
Tot Ion: 59 Resp: 885
Ion Ratio Lower Upper
59 100
57 32.7 7.8 11.6#

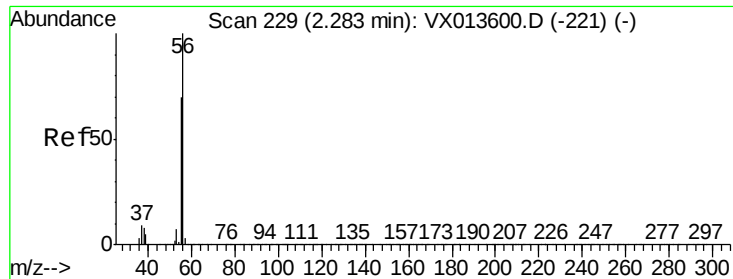


#12

1,1-Dichloroethene
Concen: 2.272 ug/l
RT: 2.36 min Scan# 242
Delta R.T. -0.00 min
Lab File: VX013984.D
Acq: 12 Dec 2019 18:42

Tgt Ion: 96 Resp: 11916
Ion Ratio Lower Upper
96 100
61 152.1 126.6 190.0
98 64.5 50.6 76.0





#13

Acrolein

Concen: 6.160 ug/l

RT: 2.25 min Scan# 224

Delta R.T. -0.03 min

Lab File: VX013984.D

Acq: 12 Dec 2019 18:42

Instrument :

MSVOA_X

ClientSampleId :

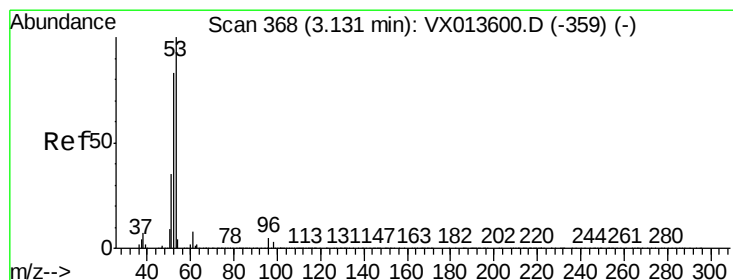
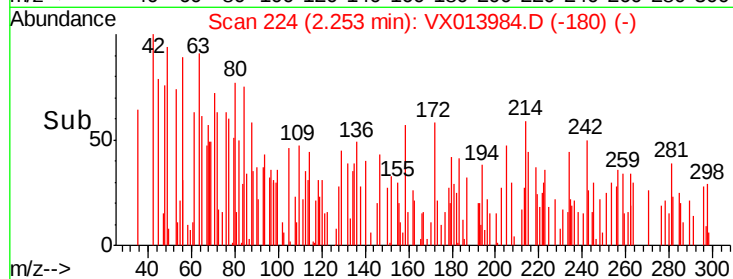
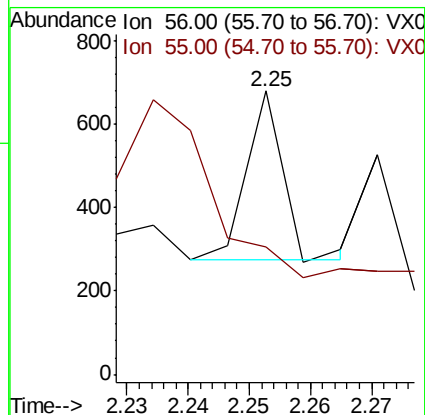
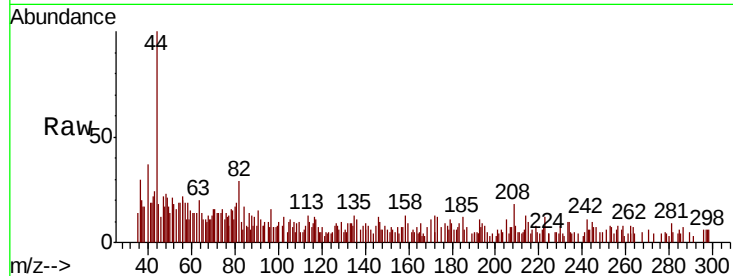
RE132D5-20191209

Tot Ion: 56 Resp: 169

Ion Ratio Lower Upper

56 100

55 0.0 56.2 84.4#



#15

Acrylonitrile

Concen: 0.383 ug/l

RT: 3.15 min Scan# 371

Delta R.T. 0.02 min

Lab File: VX013984.D

Acq: 12 Dec 2019 18:42

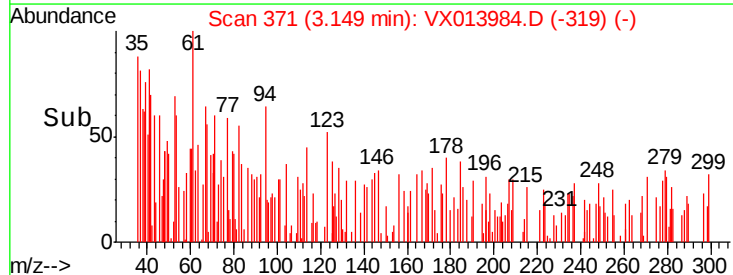
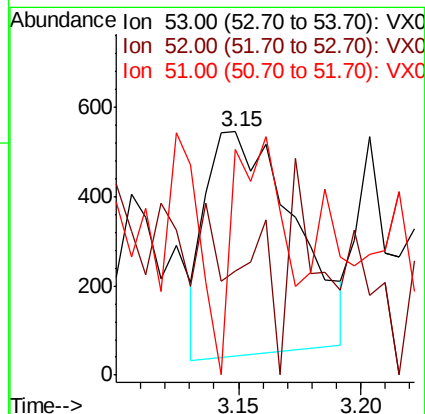
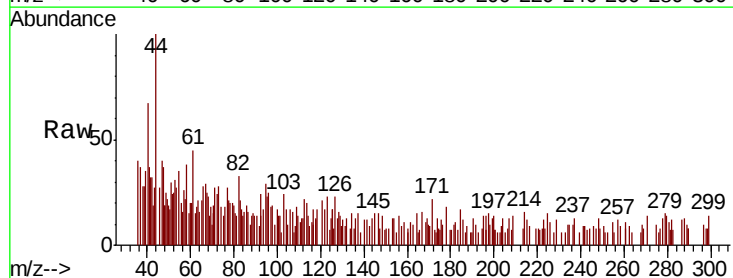
Tgt Ion: 53 Resp: 1249

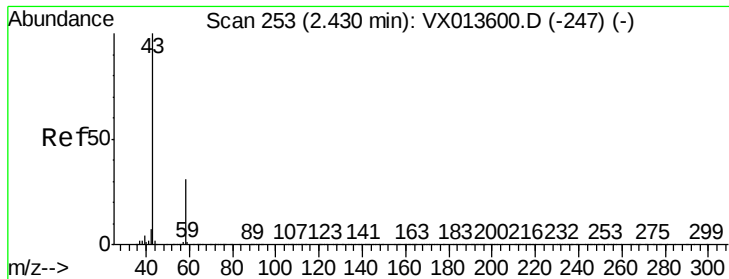
Ion Ratio Lower Upper

53 100

52 0.0 66.2 99.2#

51 59.8 29.0 43.6#

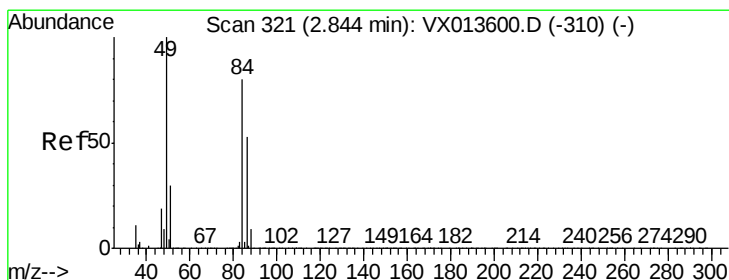
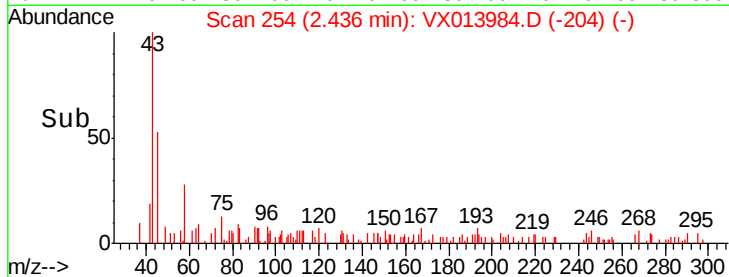
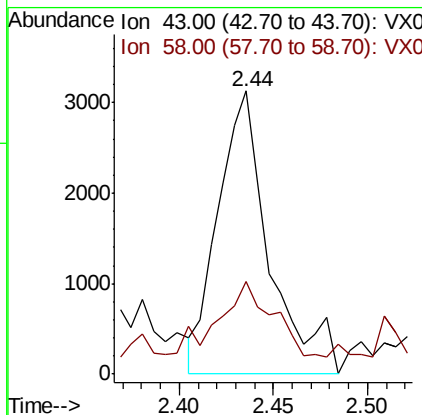
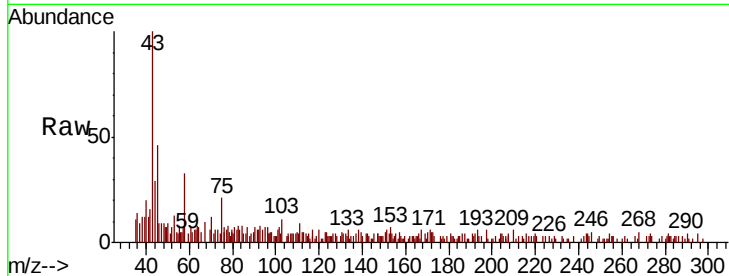




#16
Acetone
Concen: 1.869 ug/l
RT: 2.44 min Scan# 254
Delta R.T. 0.01 min
Lab File: VX013984.D
Acq: 12 Dec 2019 18:42

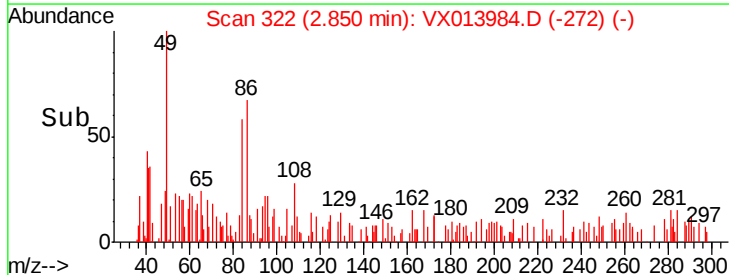
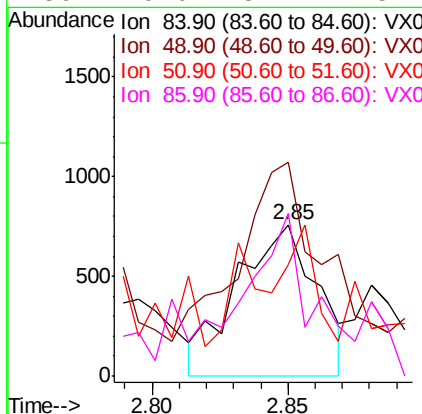
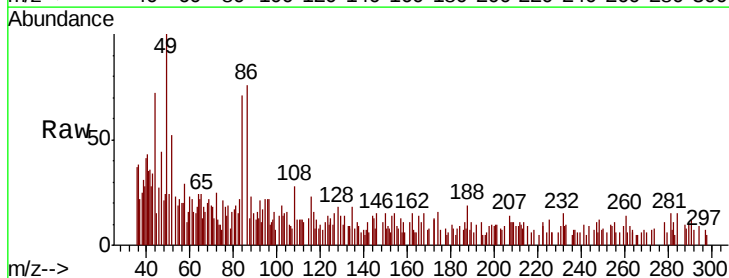
Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20191209

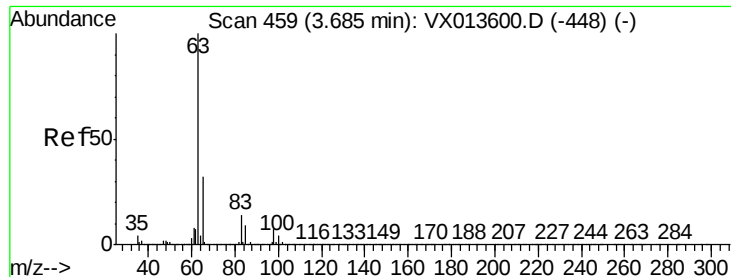
Tot Ion: 43 Resp: 5903
Ion Ratio Lower Upper
43 100
58 22.3 24.6 36.8#



#20
Methylene Chloride
Concen: 0.254 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX013984.D
Acq: 12 Dec 2019 18:42

Tgt Ion: 84 Resp: 1544
Ion Ratio Lower Upper
84 100
49 106.7 99.7 149.5
51 39.1 29.9 44.9
86 129.0 52.2 78.4#





#24

1,1-Dichloroethane

Concen: 0.641 ug/l

RT: 3.69 min Scan# 459

Delta R.T. -0.00 min

Lab File: VX013984.D

Acq: 12 Dec 2019 18:42

Instrument :

MSVOA_X

ClientSampleId :

RE132D5-20191209

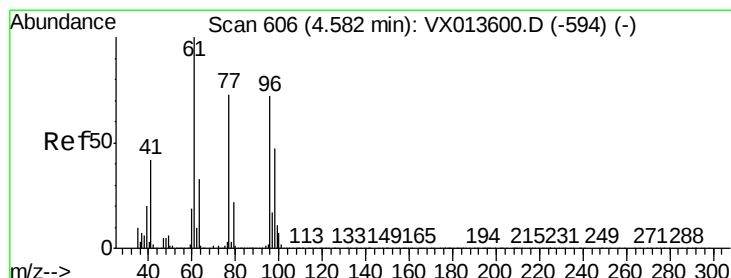
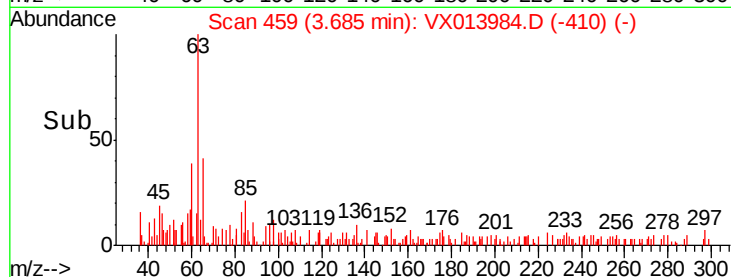
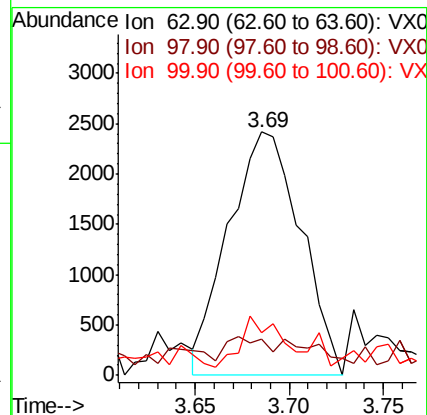
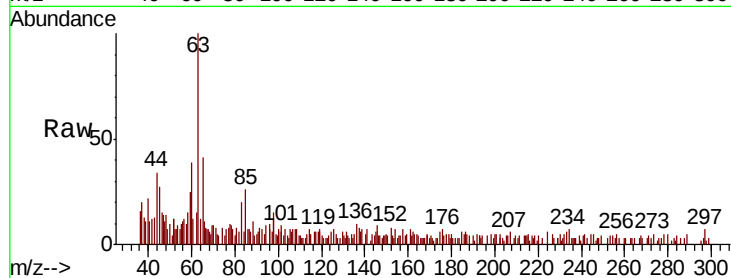
Tot Ion: 63 Resp: 6420

Ion Ratio Lower Upper

63 100

98 5.1 3.5 10.4

100 11.0 2.1 6.3#



#27

cis-1,2-Dichloroethene

Concen: 1.447 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.01 min

Lab File: VX013984.D

Acq: 12 Dec 2019 18:42

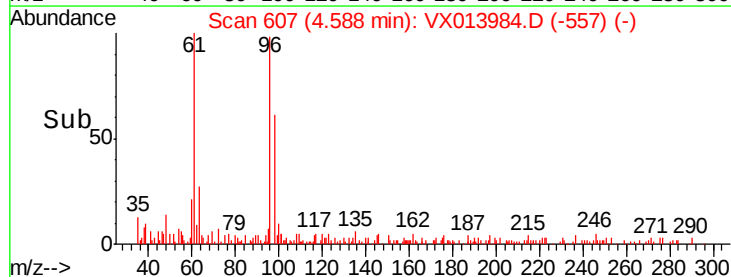
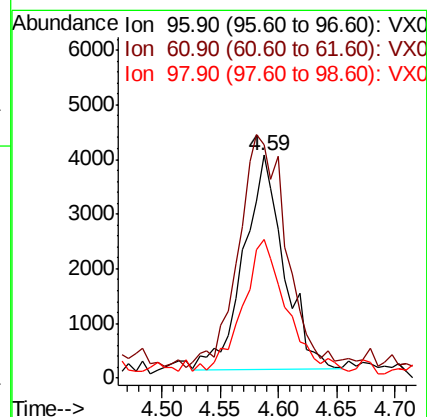
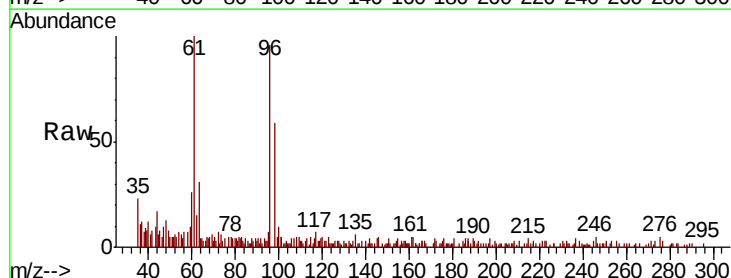
Tgt Ion: 96 Resp: 9494

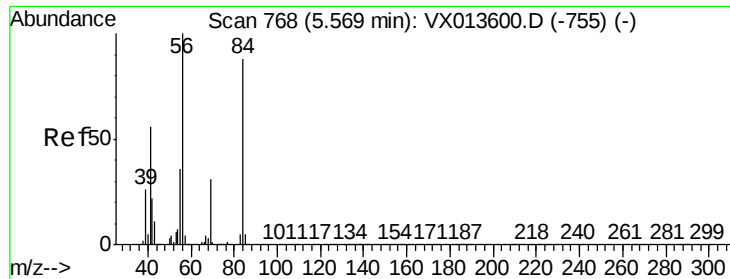
Ion Ratio Lower Upper

96 100

61 127.3 0.0 286.4

98 71.6 0.0 127.4

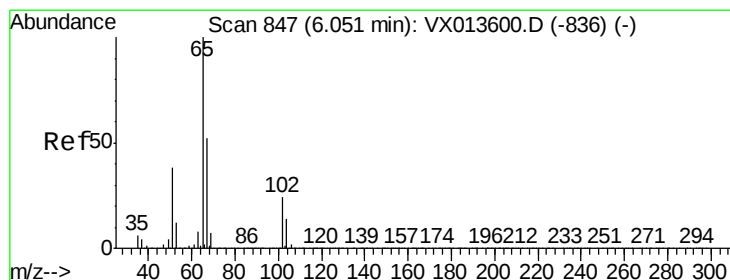
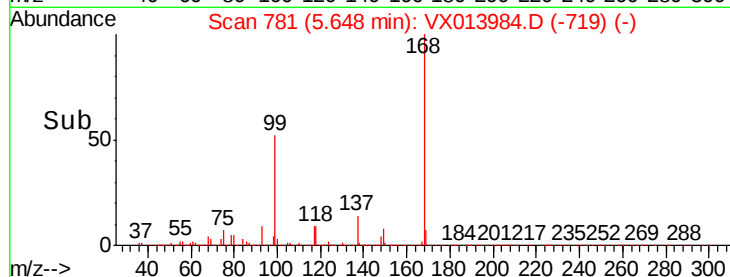
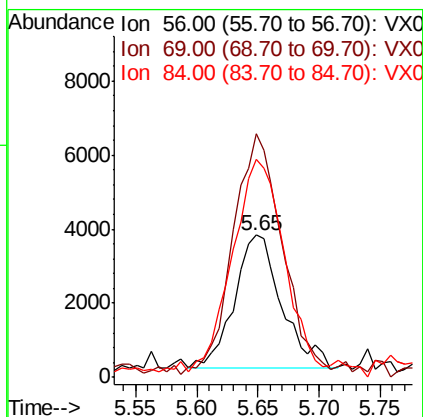
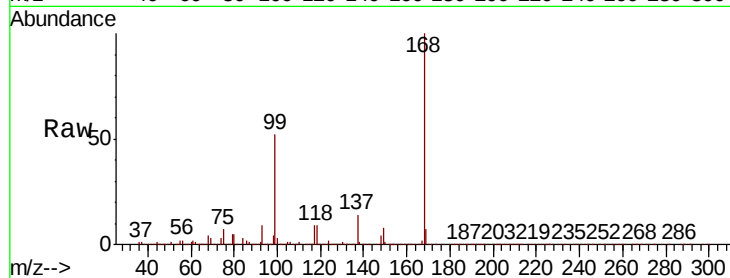




#31
Cyclohexane
Concen: 1.030 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.08 min
Lab File: VX013984.D
Acq: 12 Dec 2019 18:42

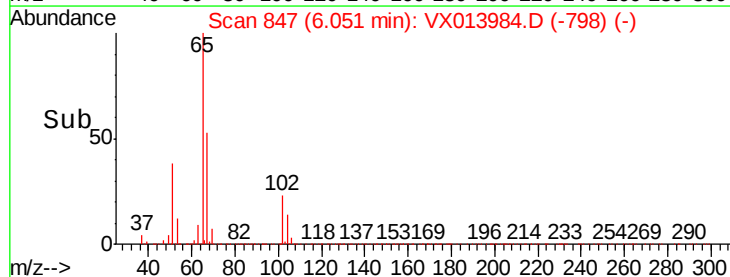
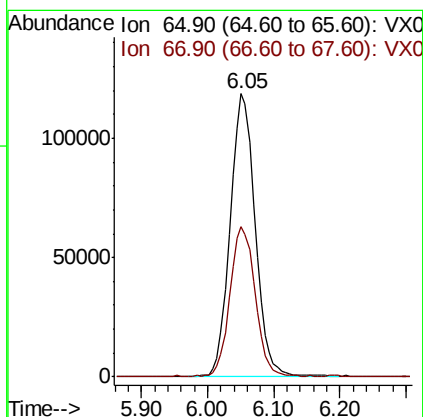
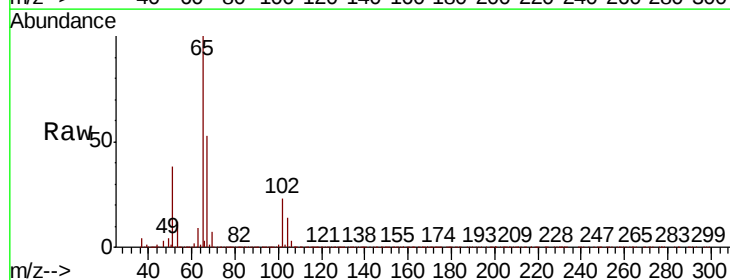
Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20191209

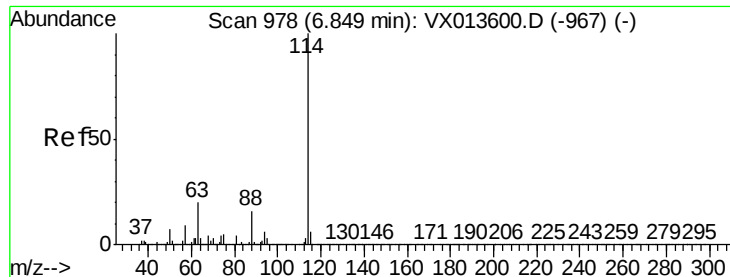
Tot Ion: 56 Resp: 9733
Ion Ratio Lower Upper
56 100
69 174.7 24.6 36.8#
84 155.5 70.0 105.0#



#33
1,2-Dichloroethane-d4
Concen: 48.428 ug/l
RT: 6.05 min Scan# 847
Delta R.T. -0.00 min
Lab File: VX013984.D
Acq: 12 Dec 2019 18:42

Tgt Ion: 65 Resp: 309820
Ion Ratio Lower Upper
65 100
67 53.4 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: VX013984.D

Acq: 12 Dec 2019 18:42

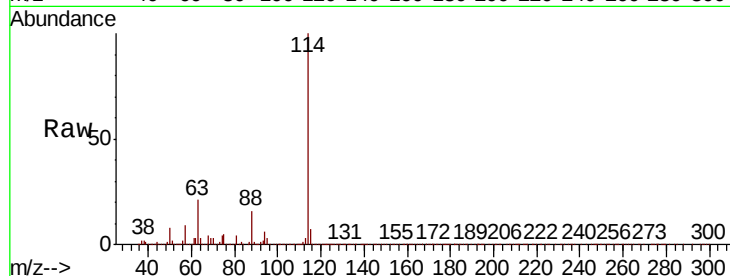
Instrument :

MSVOA_X

ClientSampleId :

RE132D5-20191209

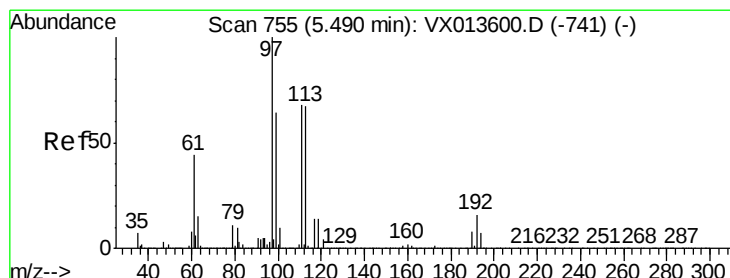
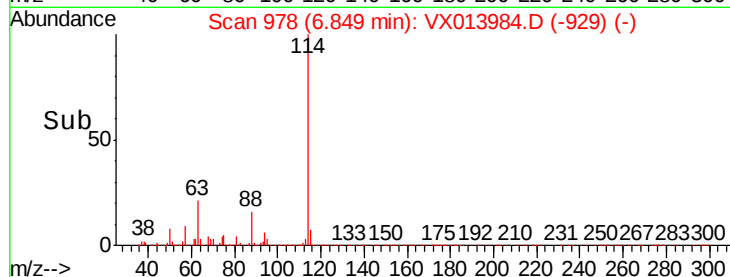
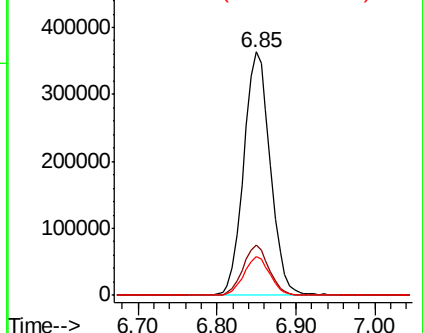
Tot Ion:	114	Resp:	851347
Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	39.6
88	15.9	0.0	31.4



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: 48.021 ug/l

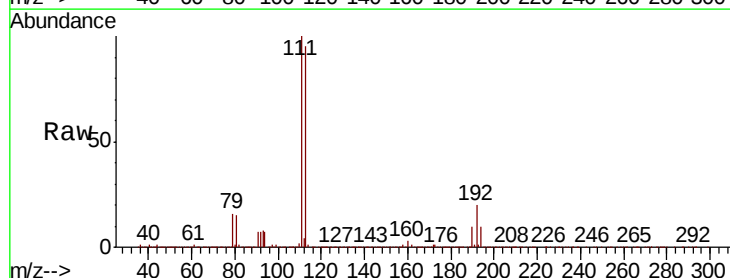
RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX013984.D

Acq: 12 Dec 2019 18:42

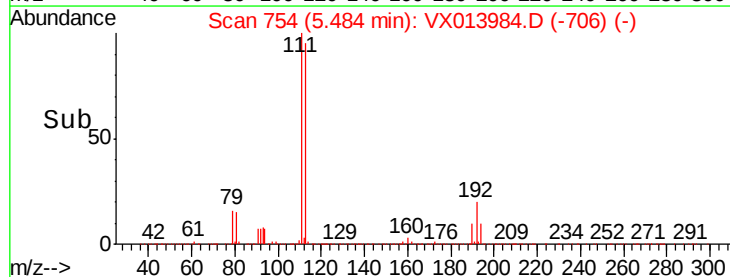
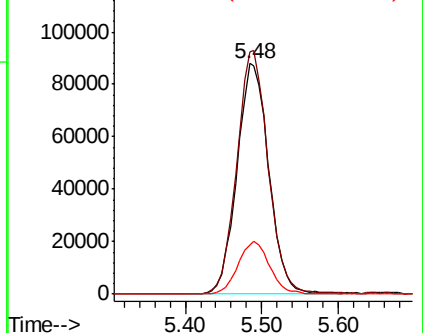
Tgt Ion:	113	Resp:	252742
Ion	Ratio	Lower	Upper
113	100		
111	104.0	83.6	125.4
192	23.0	19.2	28.8

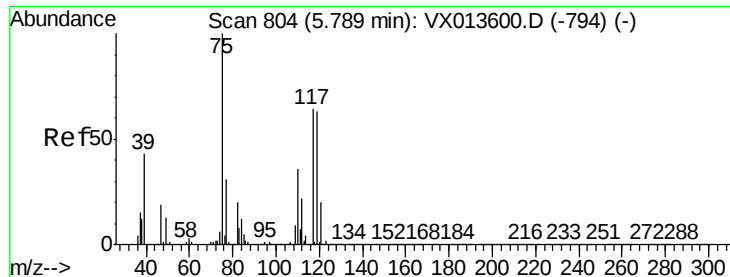


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.879 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013984.D

Acq: 12 Dec 2019 18:42

Instrument :

MSVOA_X

ClientSampleId :

RE132D5-20191209

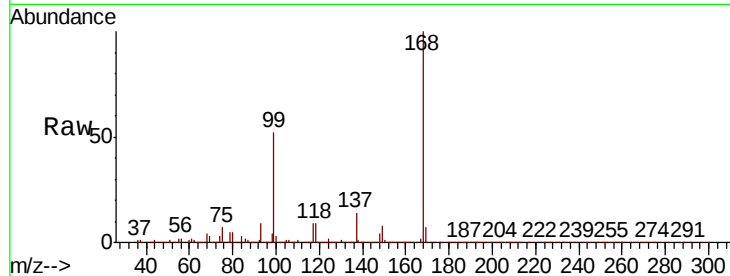
Tot Ion: 75 Resp: 37704

Ion Ratio Lower Upper

75 100

110 9.5 18.1 54.1#

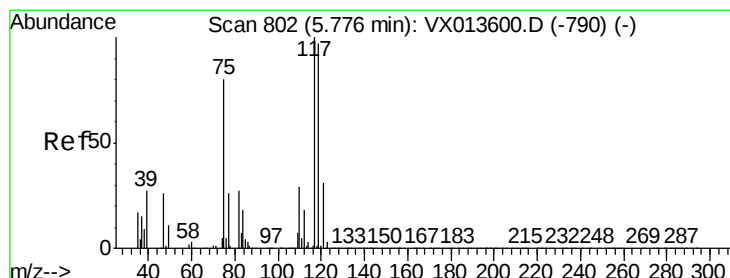
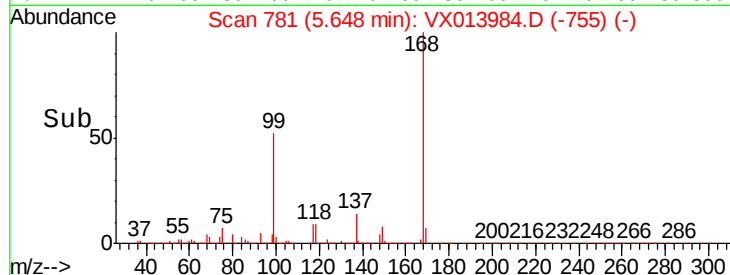
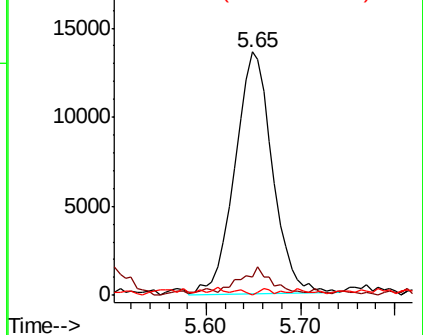
77 1.3 24.5 36.7#



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: 0.903 ug/l

RT: 5.76 min Scan# 800

Delta R.T. -0.01 min

Lab File: VX013984.D

Acq: 12 Dec 2019 18:42

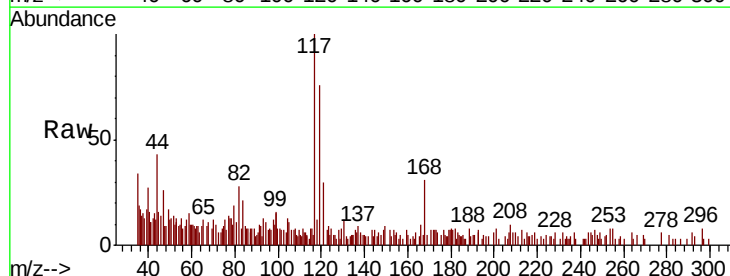
Tgt Ion: 117 Resp: 6433

Ion Ratio Lower Upper

117 100

119 68.6 77.5 116.3#

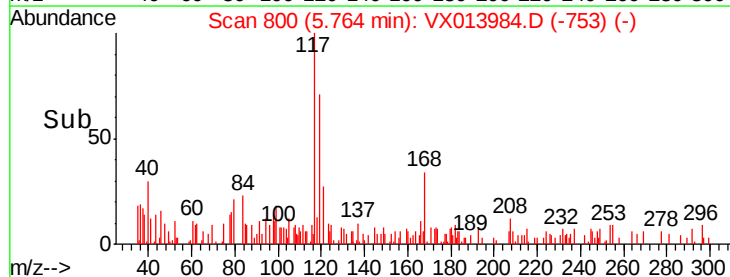
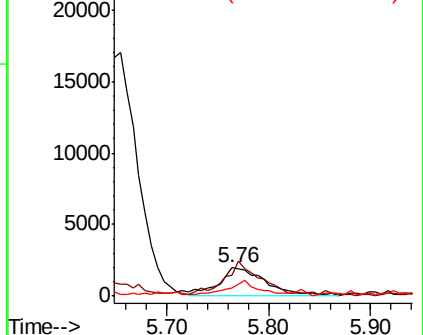
121 25.4 25.0 37.6

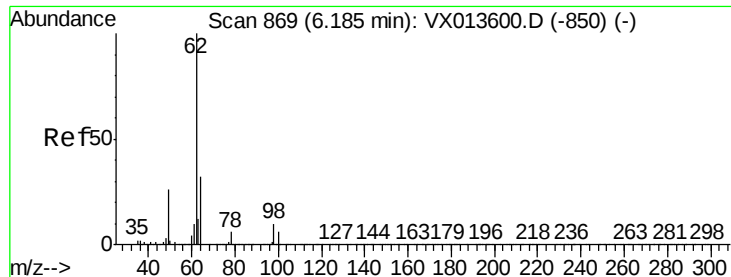


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#42

1,2-Dichloroethane

Concen: 0.375 ug/l

RT: 6.18 min Scan# 869

Delta R.T. -0.00 min

Lab File: VX013984.D

Acq: 12 Dec 2019 18:42

Instrument :

MSVOA_X

ClientSampleId :

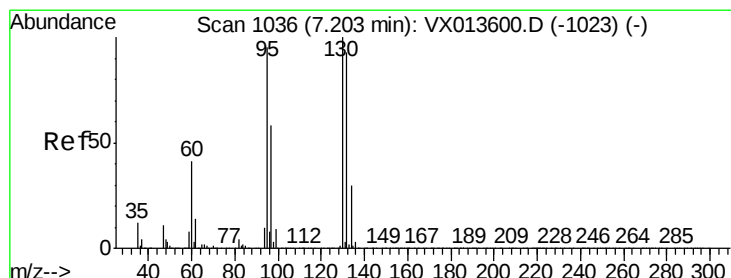
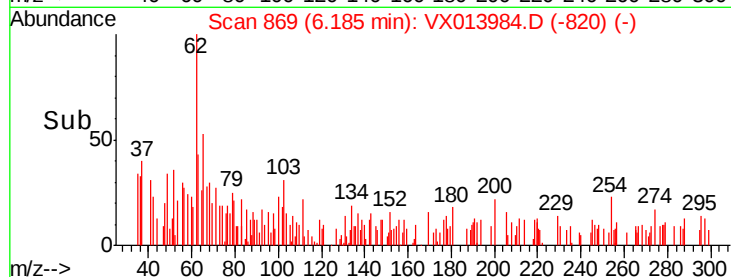
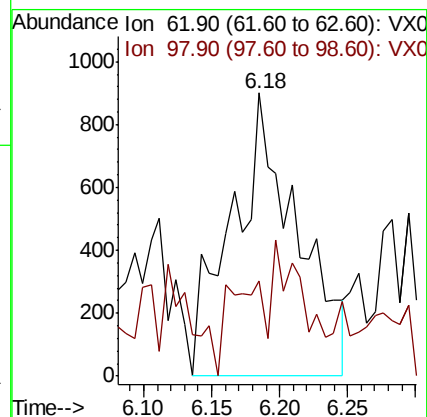
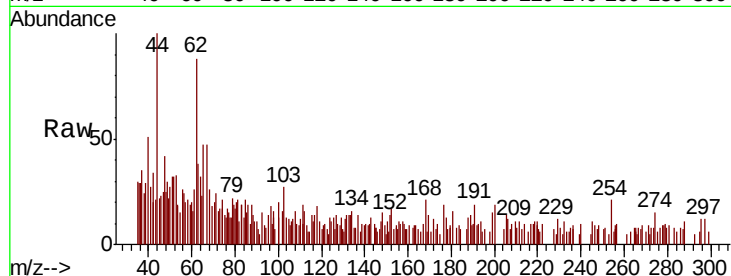
RE132D5-20191209

Tot Ion: 62 Resp: 3007

Ion Ratio Lower Upper

62 100

98 15.3 0.0 20.8



#44

Trichloroethene

Concen: 108.615 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. -0.00 min

Lab File: VX013984.D

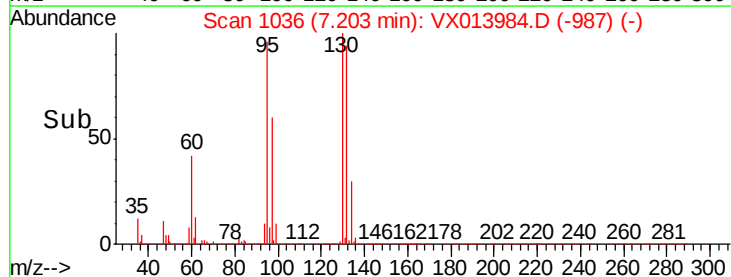
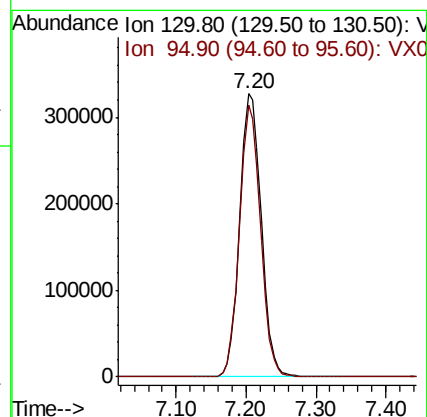
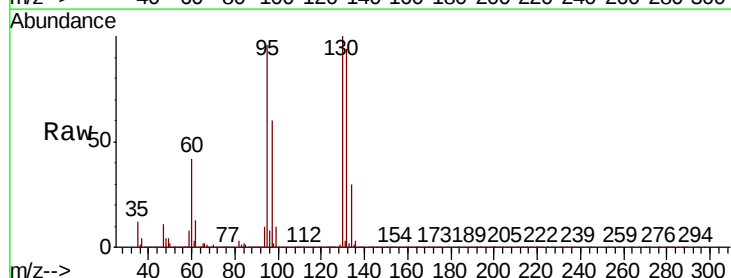
Acq: 12 Dec 2019 18:42

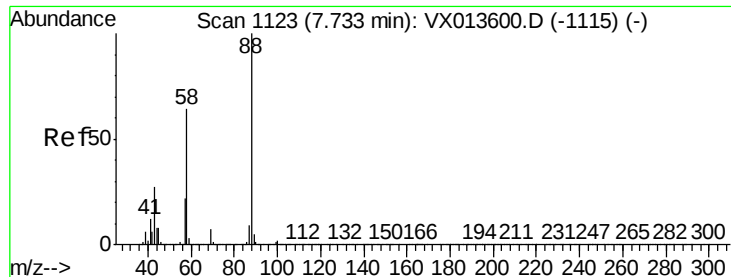
Tgt Ion:130 Resp: 701622

Ion Ratio Lower Upper

130 100

95 95.7 0.0 190.8





#49

1,4-Dioxane

Concen: 16.350 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VX013984.D

Acq: 12 Dec 2019 18:42

Instrument :

MSVOA_X

ClientSampleId :

RE132D5-20191209

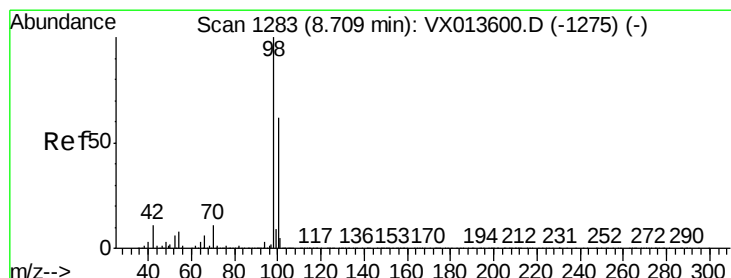
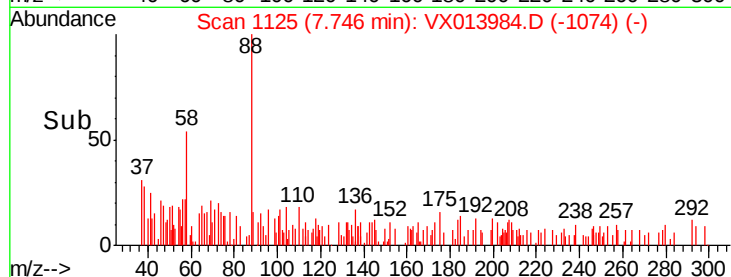
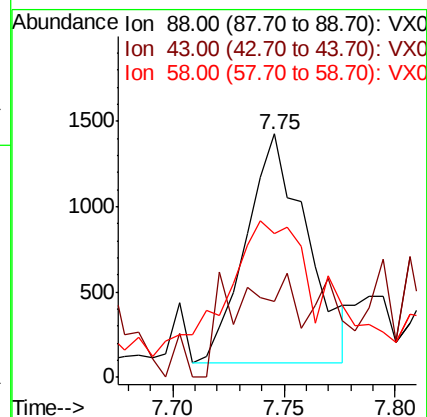
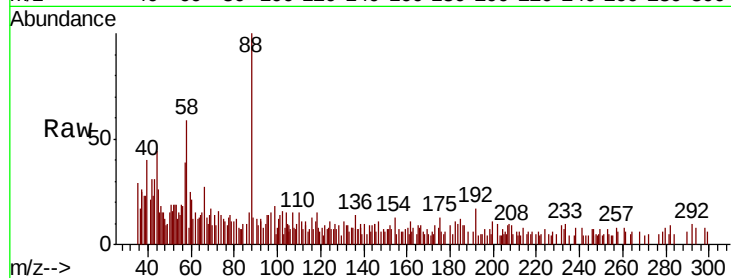
Tot Ion: 88 Resp: 2538

Ion Ratio Lower Upper

88 100

43 0.0 25.8 38.6#

58 91.5 54.6 82.0#



#50

Toluene-d8

Concen: 49.115 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013984.D

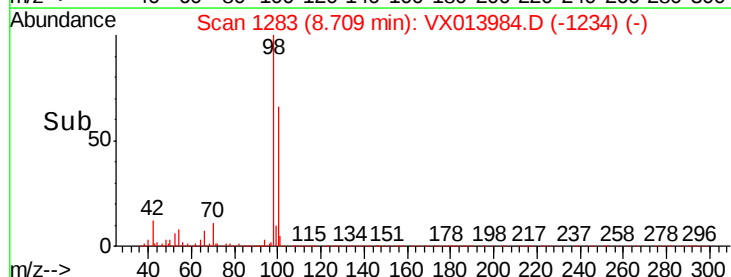
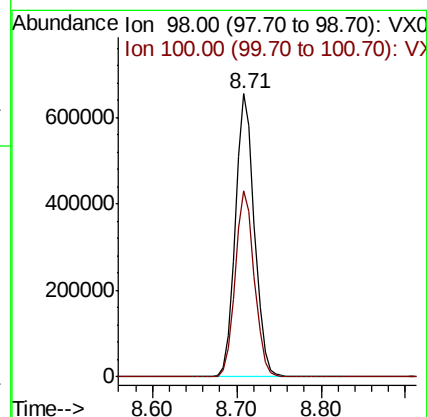
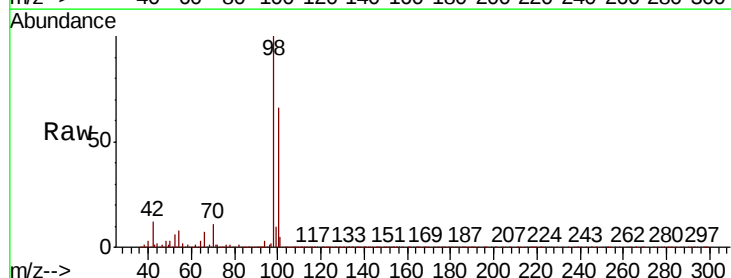
Acq: 12 Dec 2019 18:42

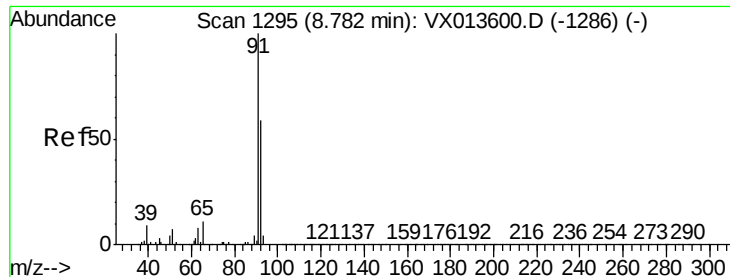
Tgt Ion: 98 Resp: 1007142

Ion Ratio Lower Upper

98 100

100 65.8 53.1 79.7





#52

Toluene

Concen: 0.525 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. -0.00 min

Lab File: VX013984.D

Acq: 12 Dec 2019 18:42

Instrument :

MSVOA_X

ClientSampleId :

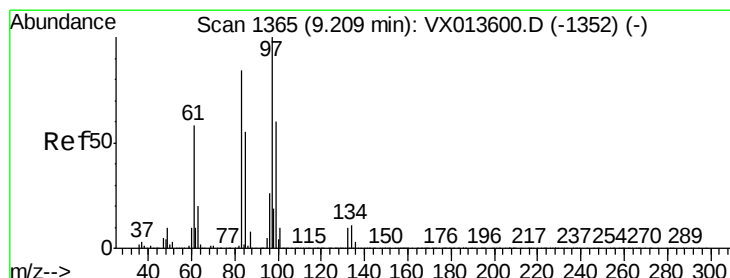
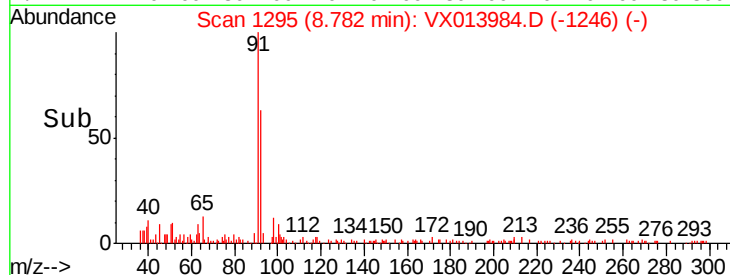
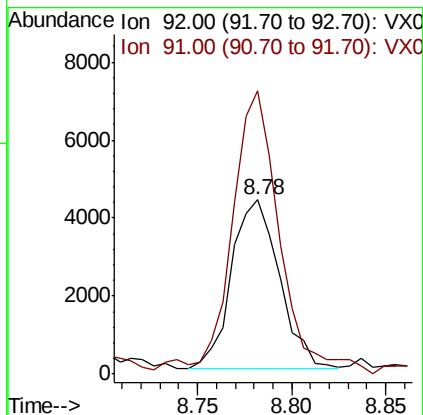
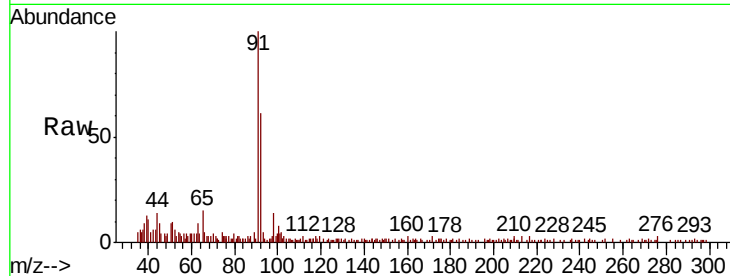
RE132D5-20191209

Tot Ion: 92 Resp: 7670

Ion Ratio Lower Upper

92 100

91 168.5 136.2 204.2



#55

1,1,2-Trichloroethane

Concen: 0.532 ug/l

RT: 9.21 min Scan# 1366

Delta R.T. 0.01 min

Lab File: VX013984.D

Acq: 12 Dec 2019 18:42

Tgt Ion: 97 Resp: 3137

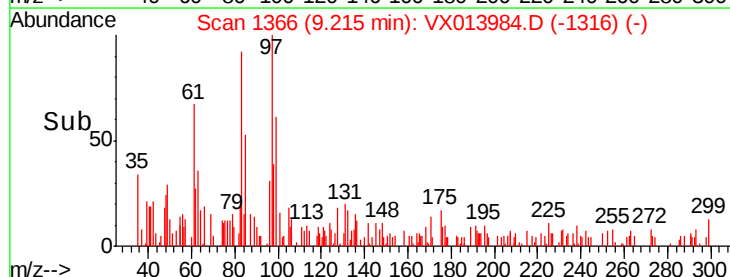
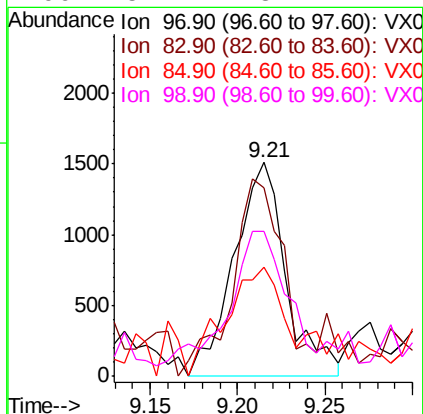
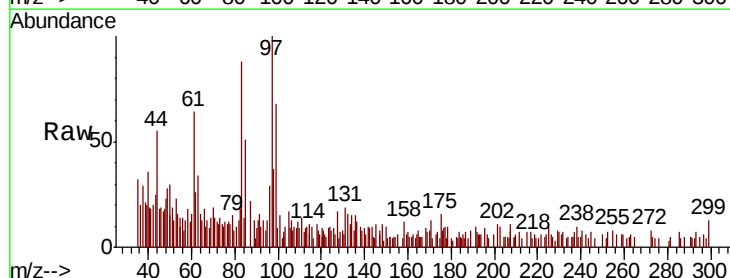
Ion Ratio Lower Upper

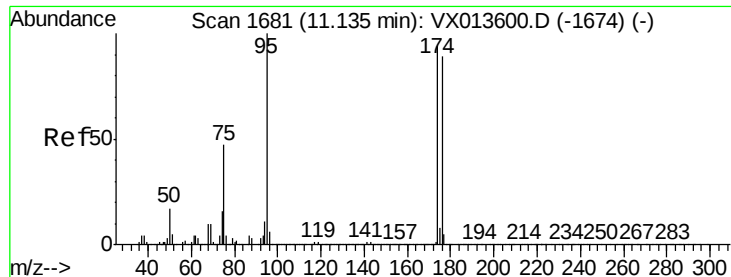
97 100

83 77.3 67.3 100.9

85 50.8 43.6 65.4

99 54.7 48.2 72.4

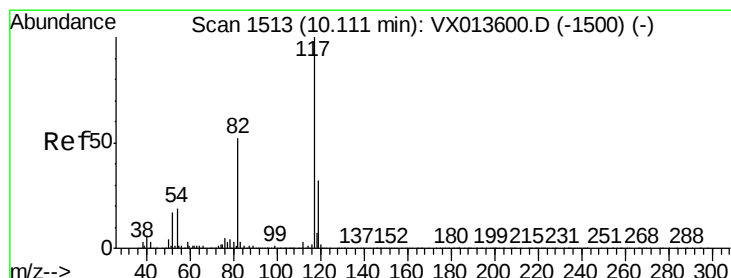
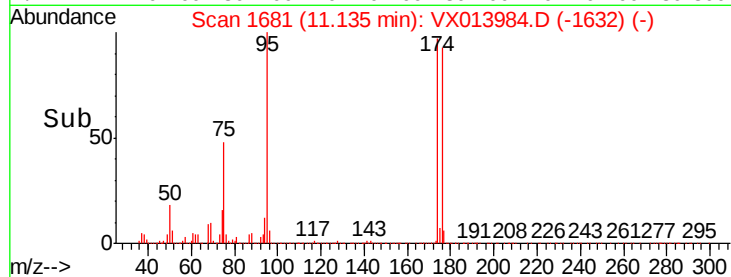
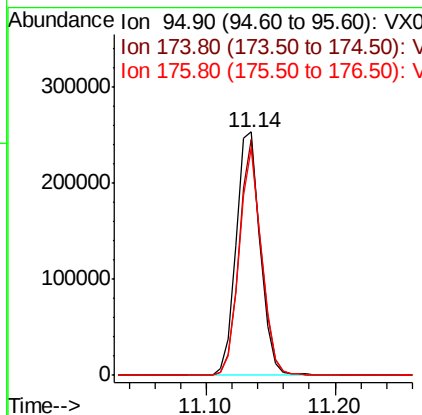
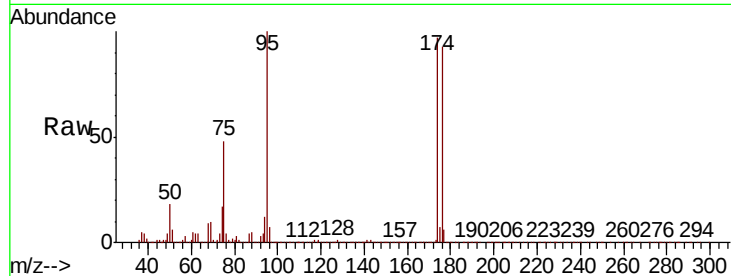




#62
4-Bromofluorobenzene
Concen: 44.494 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VX013984.D
Acq: 12 Dec 2019 18:42

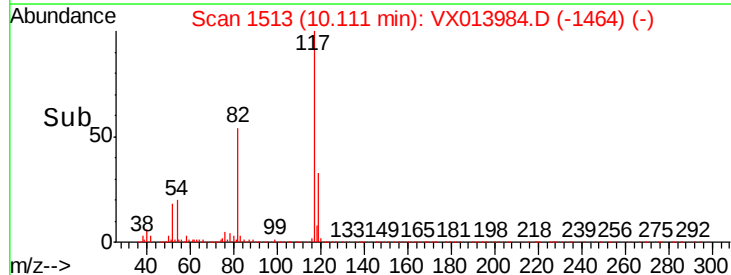
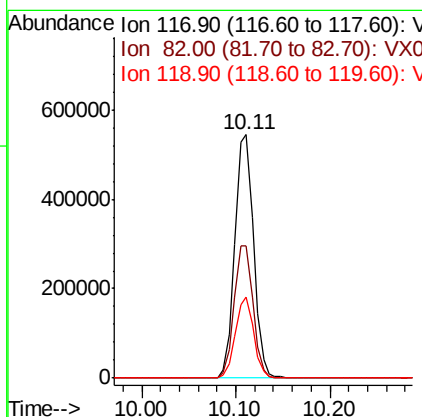
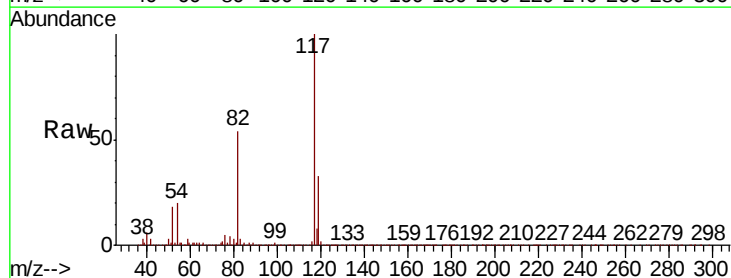
Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20191209

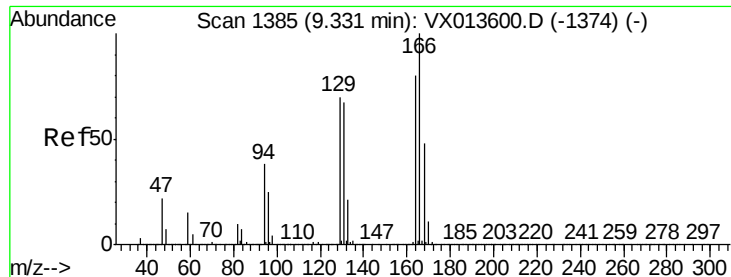
Tot Ion: 95 Resp: 329005
Ion Ratio Lower Upper
95 100
174 88.6 0.0 180.0
176 86.6 0.0 173.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013984.D
Acq: 12 Dec 2019 18:42

Tgt Ion: 117 Resp: 753888
Ion Ratio Lower Upper
117 100
82 54.1 41.8 62.8
119 33.3 25.8 38.8





#64

Tetrachloroethene

Concen: 0.230 ug/l

RT: 9.34 min Scan# 1386

Delta R.T. 0.01 min

Lab File: VX013984.D

Acq: 12 Dec 2019 18:42

Instrument :

MSVOA_X

ClientSampleId :

RE132D5-20191209

Tot Ion:164 Resp: 1295

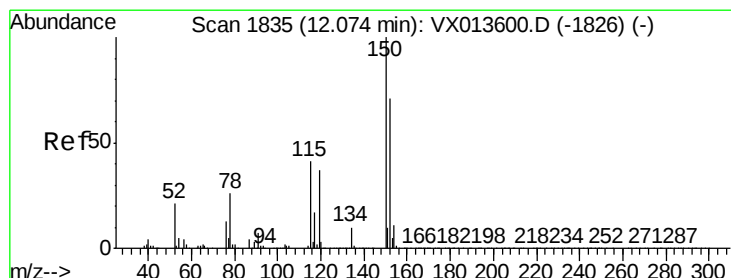
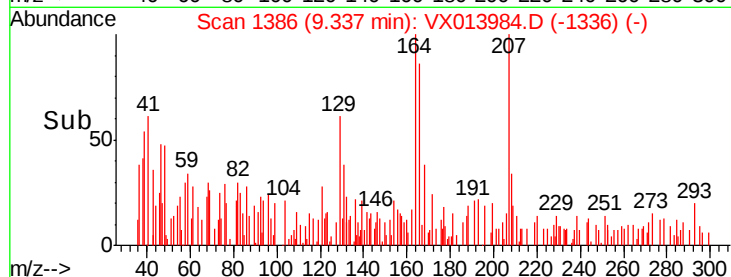
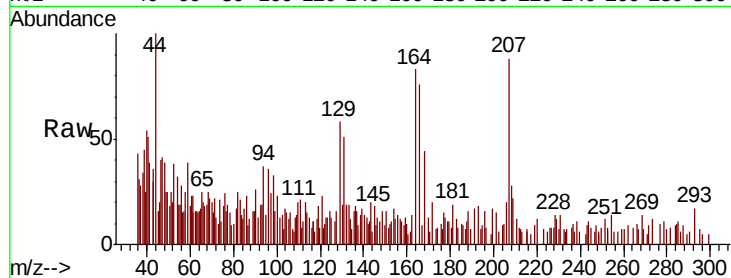
Ion Ratio Lower Upper

164 100

166 70.2 99.7 149.5#

129 46.8 70.1 105.1#

131 43.7 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: VX013984.D

Acq: 12 Dec 2019 18:42

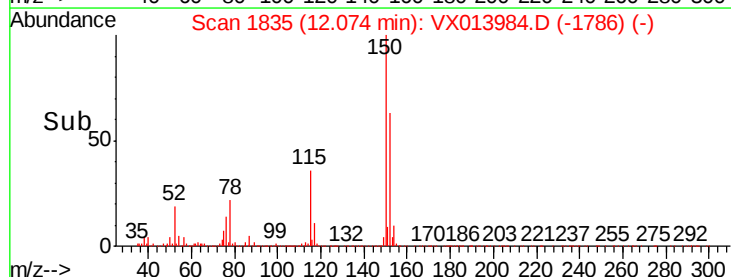
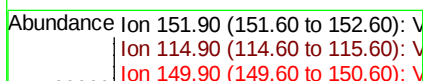
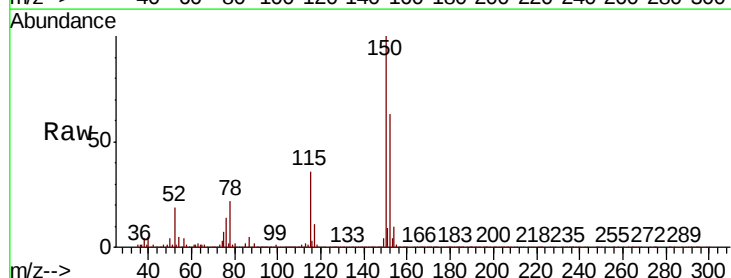
Tgt Ion:152 Resp: 316837

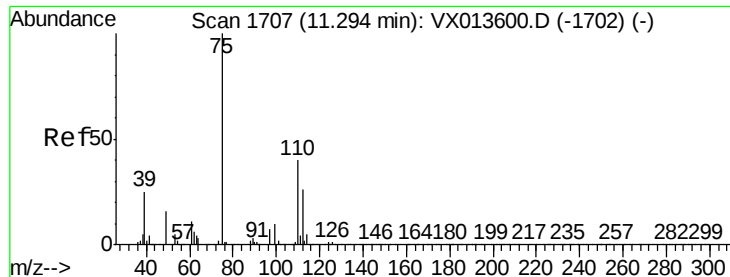
Ion Ratio Lower Upper

152 100

115 55.4 38.4 115.1

150 157.1 0.0 346.8





#76

1,2,3-Trichloropropane

Concen: 22.410 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013984.D

Acq: 12 Dec 2019 18:42

Instrument :

MSVOA_X

ClientSampleId :

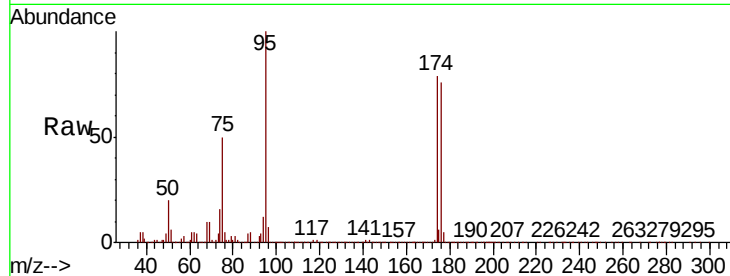
RE132D5-20191209

Tot Ion: 75 Resp: 159701

Ion Ratio Lower Upper

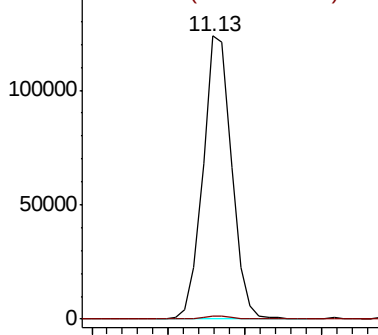
75 100

77 1.3 19.1 57.5#

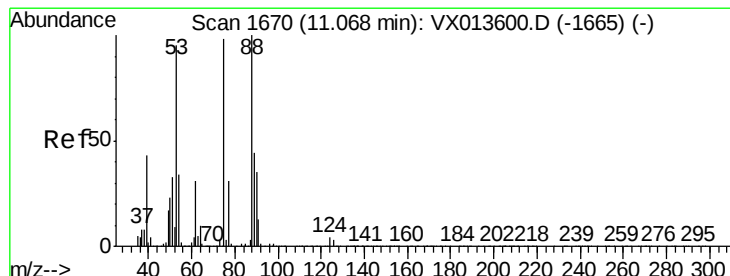
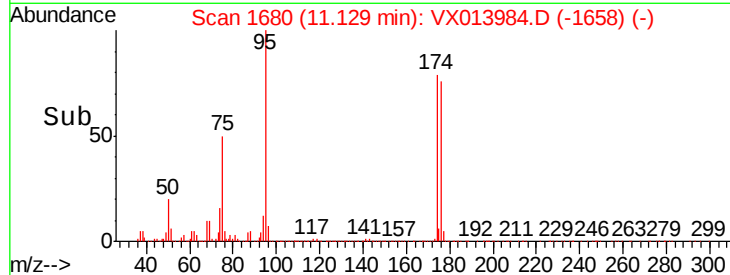


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



Time--> 11.05 11.10 11.15 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 61.311 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013984.D

Acq: 12 Dec 2019 18:42

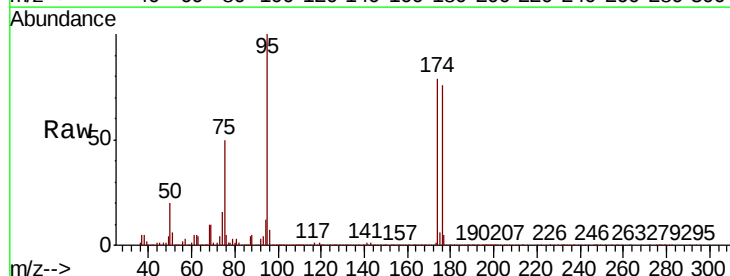
Tgt Ion: 75 Resp: 159701

Ion Ratio Lower Upper

75 100

53 0.5 78.2 117.2#

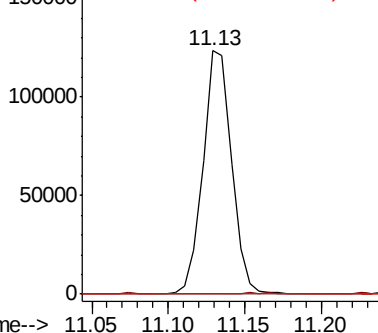
89 0.1 35.4 53.2#



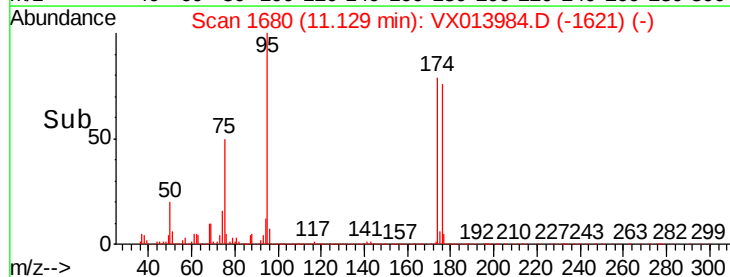
Abundance Ion 74.90 (74.60 to 75.60): VX0

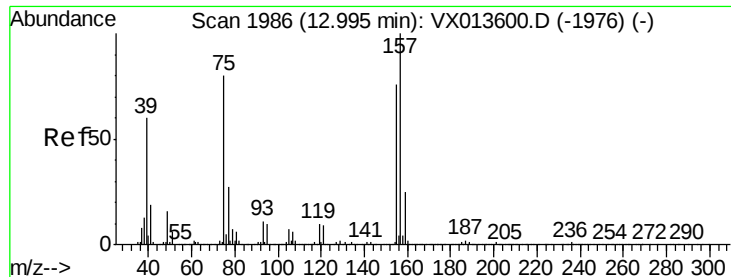
Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



Time--> 11.05 11.10 11.15 11.20





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.226 ug/l
 RT: 12.98 min Scan# 1984
 Delta R.T. -0.01 min
 Lab File: VX013984.D
 Acq: 12 Dec 2019 18:42

Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D5-20191209

Tot Ion: 75 Resp: 379
 Ion Ratio Lower Upper
 75 100
 155 0.0 47.6 142.8#
 157 0.0 62.1 186.2#

