

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112719\  
 Data File : VX013680.D  
 Acq On : 28 Nov 2019 03:08  
 Operator : JC/SP  
 Sample : K5962-06  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Nov 28 04:23:51 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  | 703487   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 1098352  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 978926   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 440700   | 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   | 396202   | 48.52 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.04% |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 327149   | 48.18 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.36% |          |
| 50) Toluene-d8              | 8.71  | 98   | 1290919  | 48.80 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.60% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 437530   | 45.86 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.72% |          |

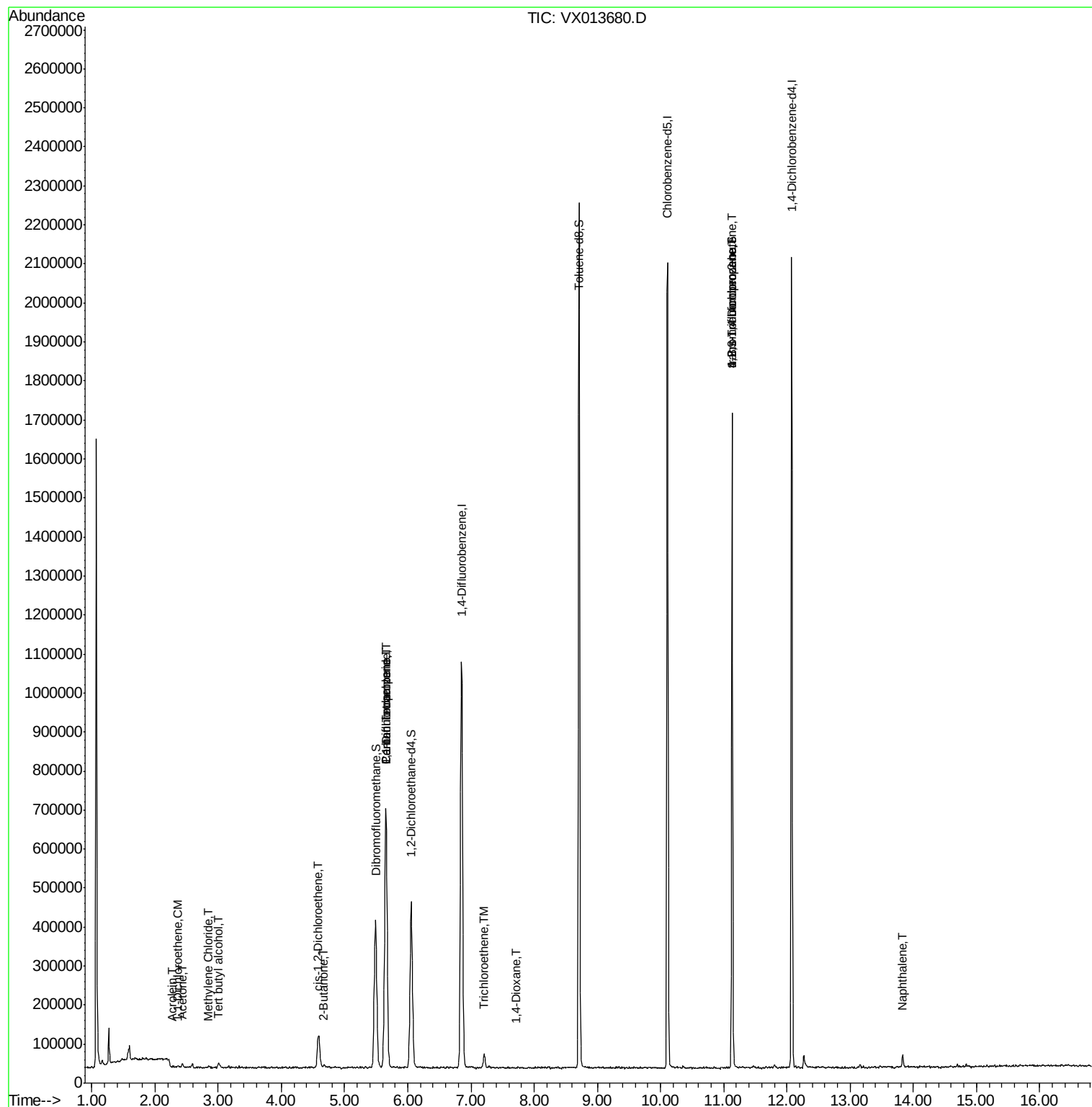
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 11) Tert butyl alcohol         | 3.00  | 59   | 8441     | 4.188  | ug/l # | 89     |
| 12) 1,1-Dichloroethene         | 2.37  | 96   | 1469     | 0.219  | ug/l # | 38     |
| 13) Acrolein                   | 2.28  | 56   | 385      | 6.283  | ug/l # | 15     |
| 16) Acetone                    | 2.43  | 43   | 11605    | 2.879  | ug/l   | 90     |
| 20) Methylene Chloride         | 2.84  | 84   | 2398     | 0.310  | ug/l # | 79     |
| 25) 2-Butanone                 | 4.67  | 43   | 1665     | 0.278  | ug/l # | 81     |
| 27) cis-1,2-Dichloroethene     | 4.58  | 96   | 59432    | 7.096  | ug/l   | 89     |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 46983    | 4.712  | ug/l # | 53     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 60865    | 6.620  | ug/l # | 14     |
| 44) Trichloroethene            | 7.21  | 130  | 15150    | 1.818  | ug/l   | 97     |
| 49) 1,4-Dioxane                | 7.72  | 88   | 390      | 1.947  | ug/l # | 3      |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 213827   | 21.572 | ug/l # | 39     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 213827   | 59.018 | ug/l # | 11     |
| 95) Naphthalene                | 13.83 | 128  | 23602    | 0.791  | ug/l   | 99     |

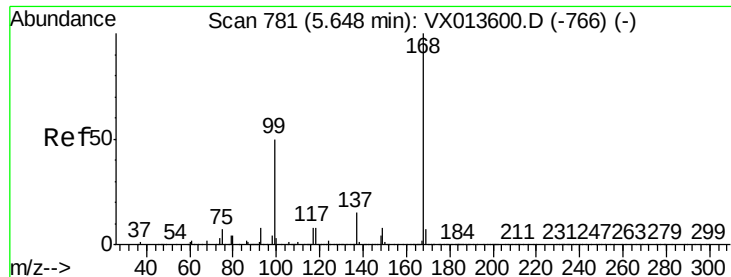
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX013680.D

Acq: 28 Nov 2019 03:08

Instrument :

MSVOA\_X

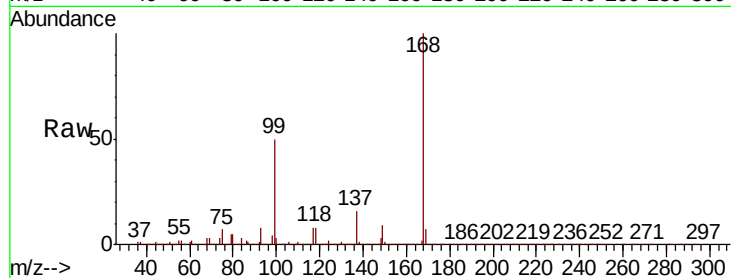
ClientSampled :

Tot Ion:168 Resp: 703487

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

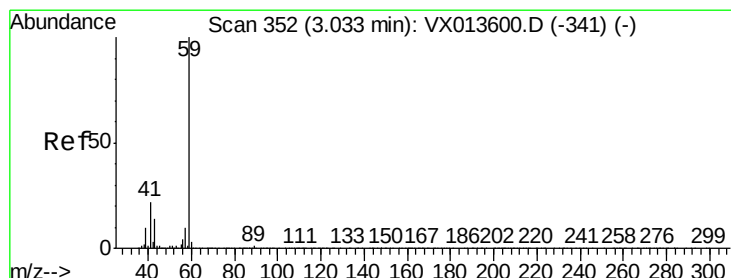
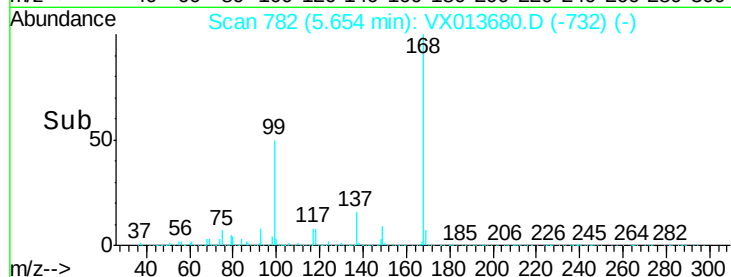
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 4.188 ug/l

RT: 3.00 min Scan# 347

Delta R.T. -0.03 min

Lab File: VX013680.D

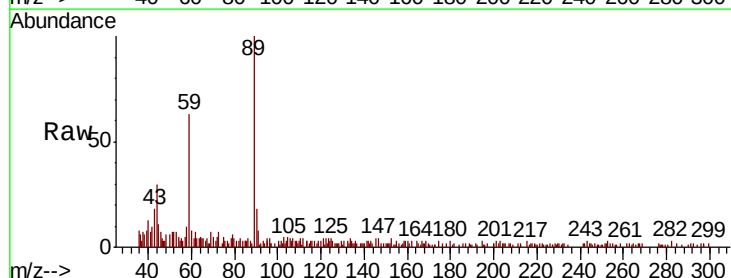
Acq: 28 Nov 2019 03:08

Tgt Ion: 59 Resp: 8441

Ion Ratio Lower Upper

59 100

57 5.8 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.00

4000

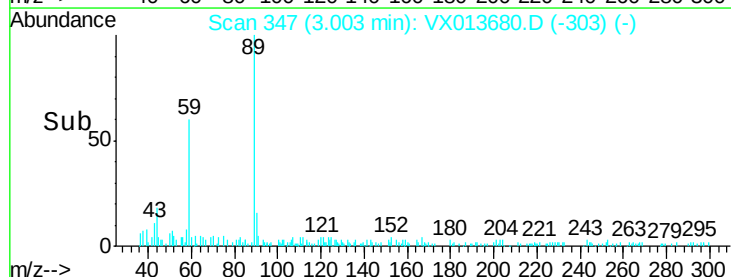
3000

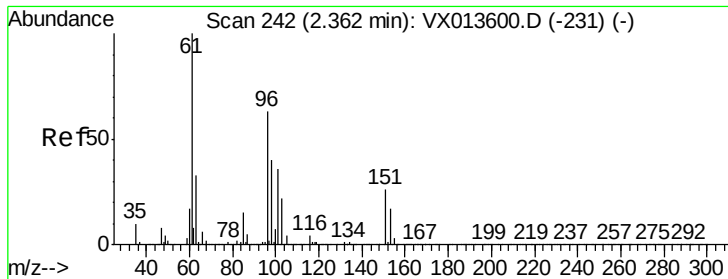
2000

1000

0

Time-->





#12

1,1-Dichloroethene

Concen: 0.219 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.01 min

Lab File: VX013680.D

Acq: 28 Nov 2019 03:08

Instrument :

MSVOA\_X

ClientSampled :

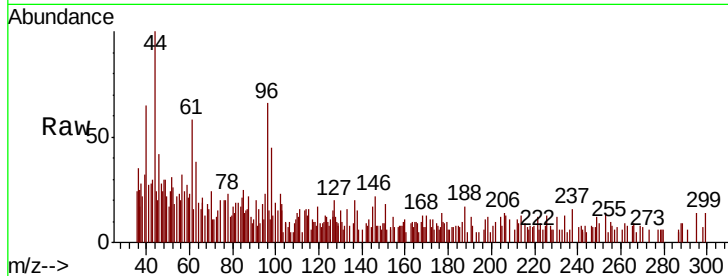
Tot Ion: 96 Resp: 1469

Ion Ratio Lower Upper

96 100

61 57.9 126.6 190.0#

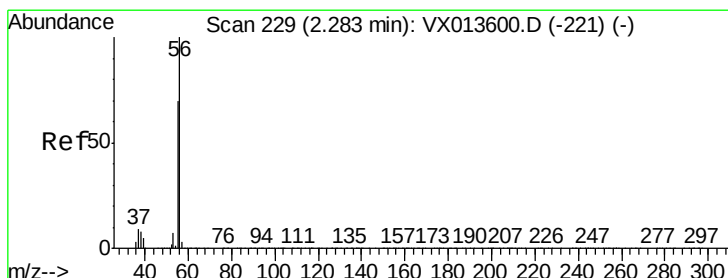
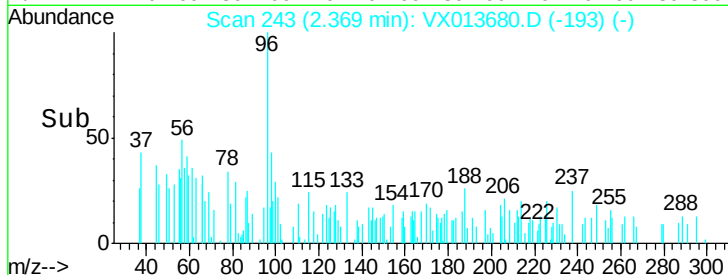
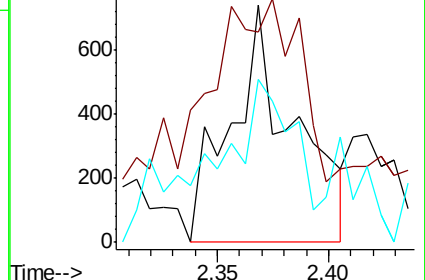
98 44.3 50.6 76.0#



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: 6.283 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.00 min

Lab File: VX013680.D

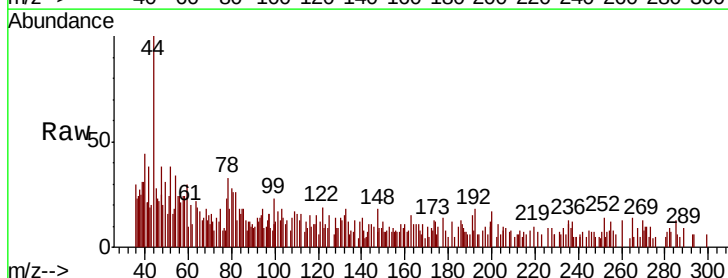
Acq: 28 Nov 2019 03:08

Tgt Ion: 56 Resp: 385

Ion Ratio Lower Upper

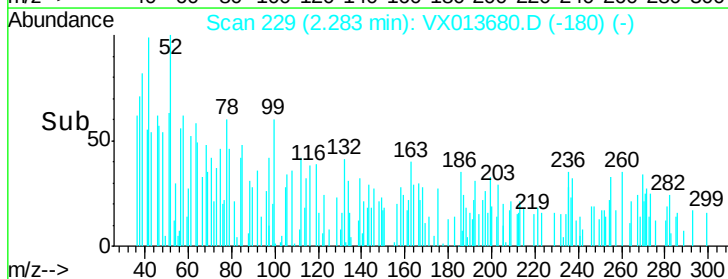
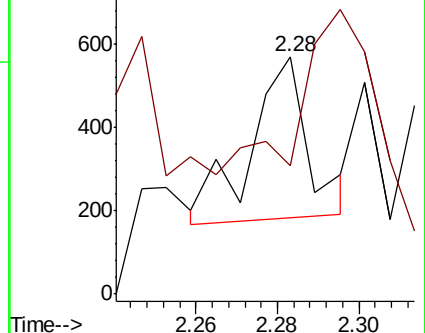
56 100

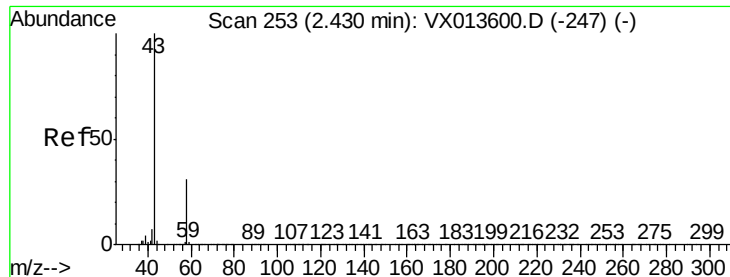
55 0.0 56.2 84.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

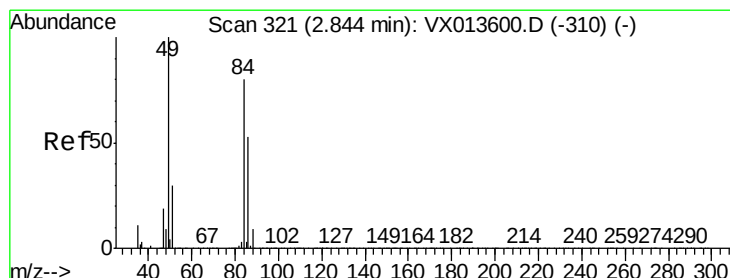
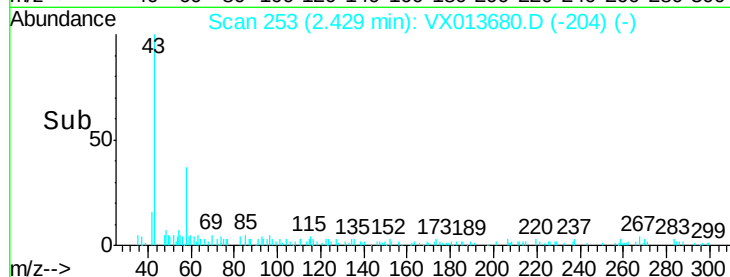
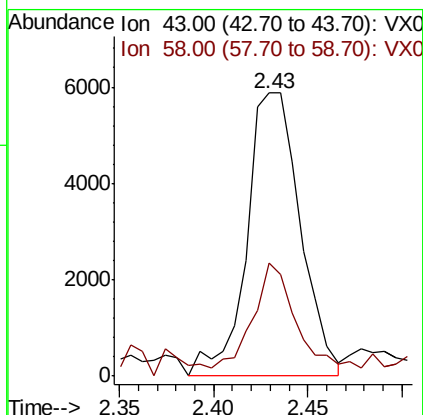
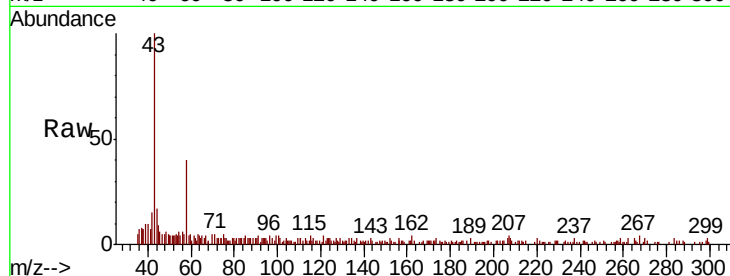




#16  
Acetone  
Concen: 2.879 ug/l  
RT: 2.43 min Scan# 253  
Delta R.T. -0.00 min  
Lab File: VX013680.D  
Acq: 28 Nov 2019 03:08

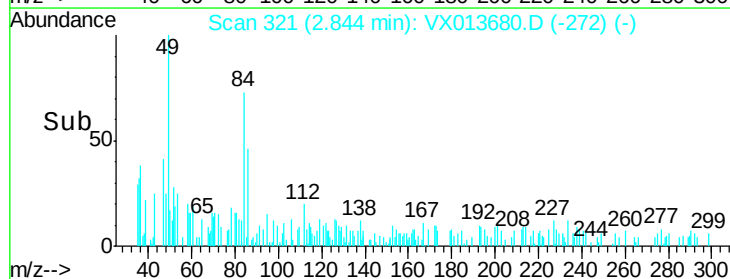
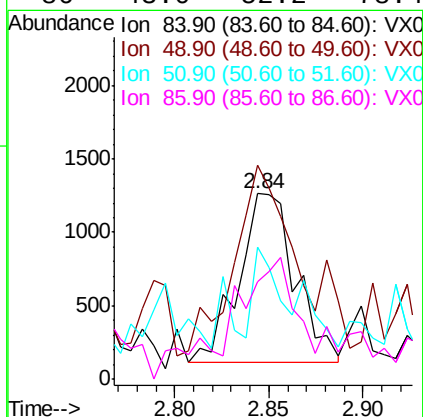
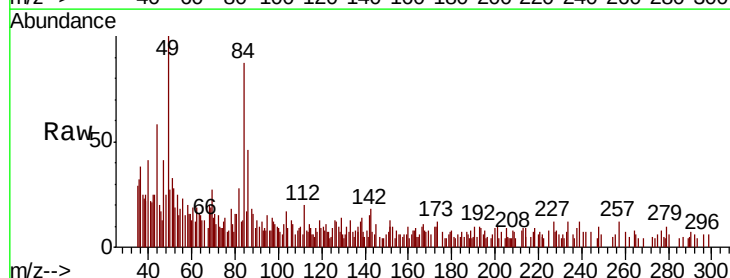
Instrument :  
MSVOA\_X  
ClientSampleId :

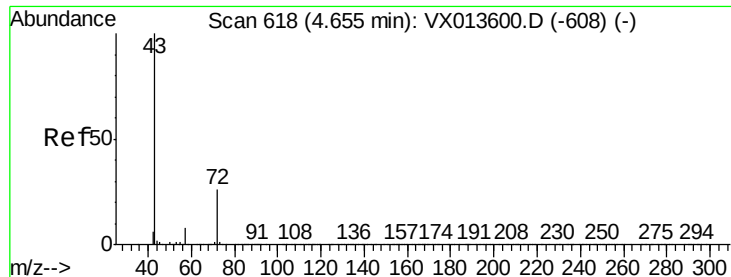
Tot Ion: 43 Resp: 11605  
Ion Ratio Lower Upper  
43 100  
58 36.1 24.6 36.8



#20  
Methylene Chloride  
Concen: 0.310 ug/l  
RT: 2.84 min Scan# 321  
Delta R.T. -0.00 min  
Lab File: VX013680.D  
Acq: 28 Nov 2019 03:08

Tgt Ion: 84 Resp: 2398  
Ion Ratio Lower Upper  
84 100  
49 110.0 99.7 149.5  
51 58.6 29.9 44.9#  
86 43.0 52.2 78.4#





#25

2-Butanone

Concen: 0.278 ug/l

RT: 4.67 min Scan# 620

Delta R.T. 0.01 min

Lab File: VX013680.D

Acq: 28 Nov 2019 03:08

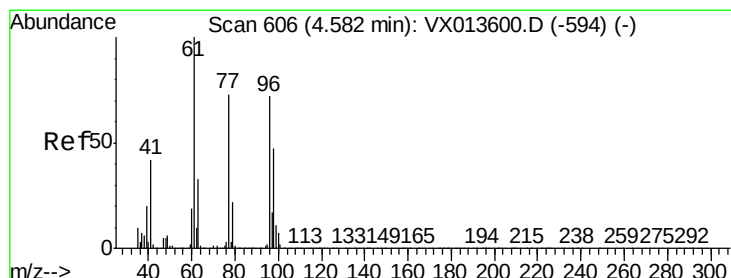
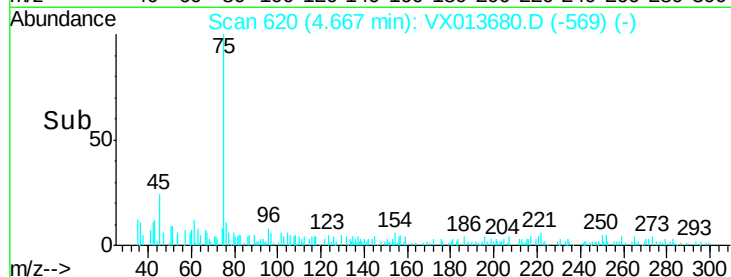
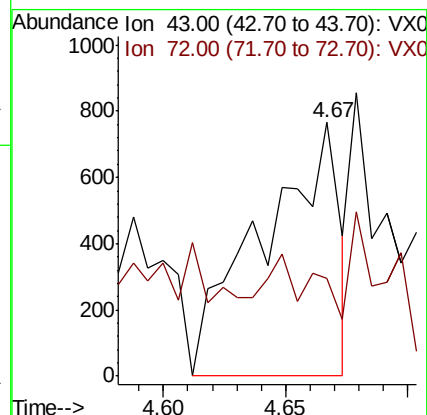
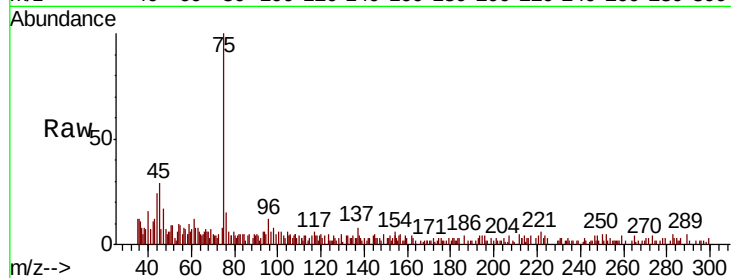
Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion: 43 Resp: 1665

Ion Ratio Lower Upper

43 100

72 15.9 20.6 31.0#



#27

cis-1,2-Dichloroethene

Concen: 7.096 ug/l

RT: 4.58 min Scan# 606

Delta R.T. -0.00 min

Lab File: VX013680.D

Acq: 28 Nov 2019 03:08

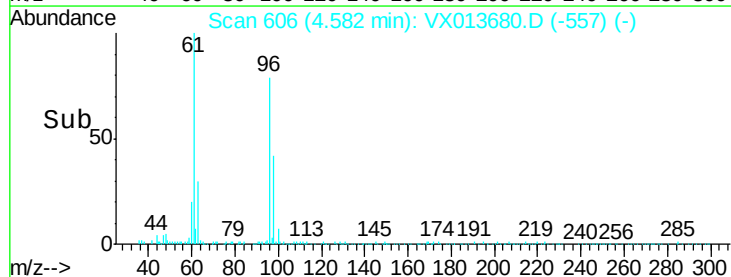
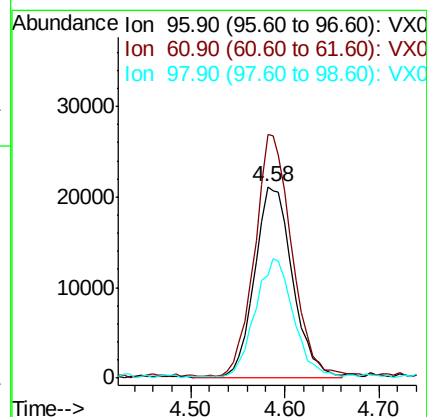
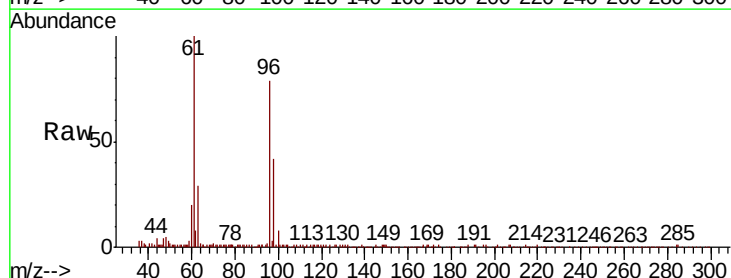
Tgt Ion: 96 Resp: 59432

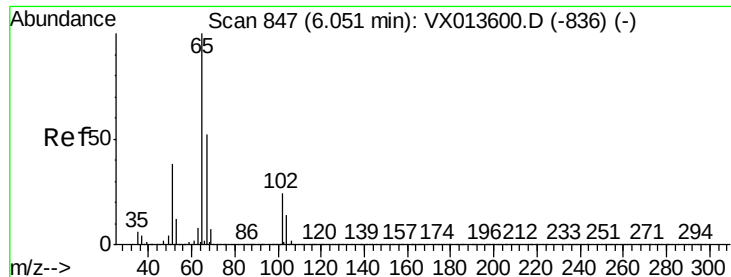
Ion Ratio Lower Upper

96 100

61 124.5 0.0 286.4

98 61.9 0.0 127.4





#33

1,2-Dichloroethane-d4

Concen: 48.519 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013680.D

Acq: 28 Nov 2019 03:08

Instrument :

MSVOA\_X

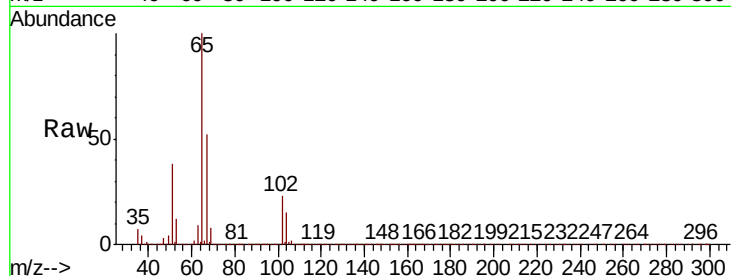
ClientSampleId :

Tot Ion: 65 Resp: 396202

Ion Ratio Lower Upper

65 100

67 52.8 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

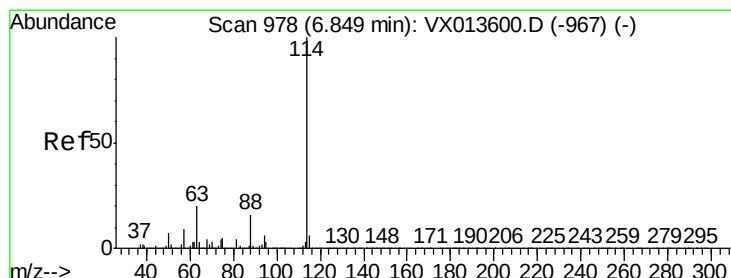
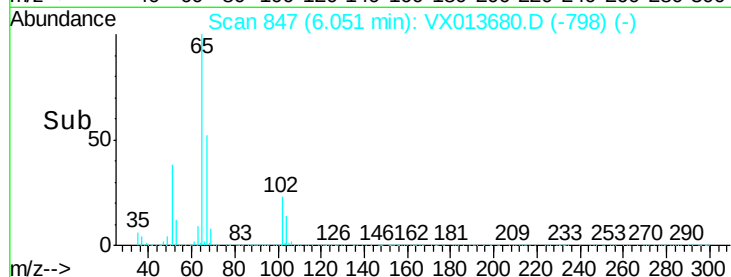
100000

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: VX013680.D

Acq: 28 Nov 2019 03:08

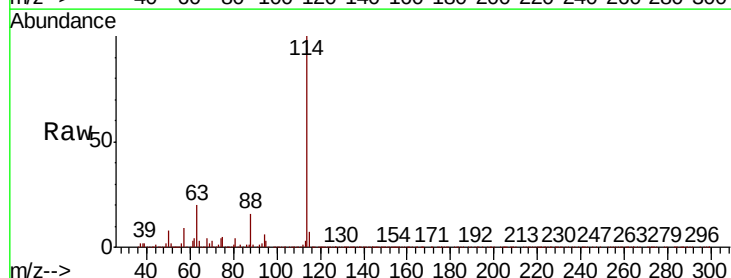
Tgt Ion: 114 Resp: 1098352

Ion Ratio Lower Upper

114 100

63 20.4 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

600000

500000

400000

300000

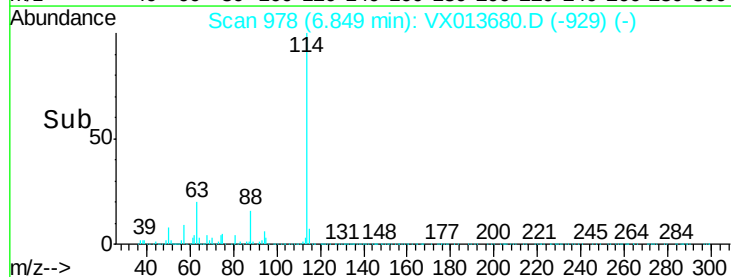
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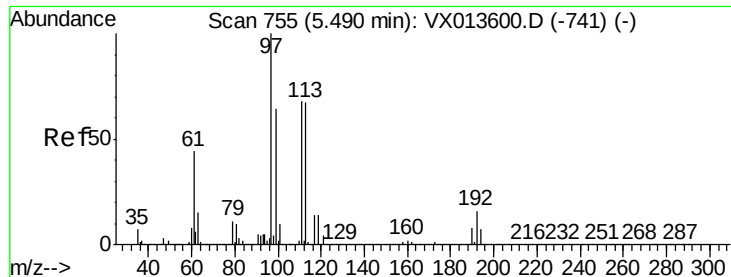
100000

0

Time-->

6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 48.180 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013680.D

Acq: 28 Nov 2019 03:08

Instrument :  
MSVOA\_X  
ClientSampleId :

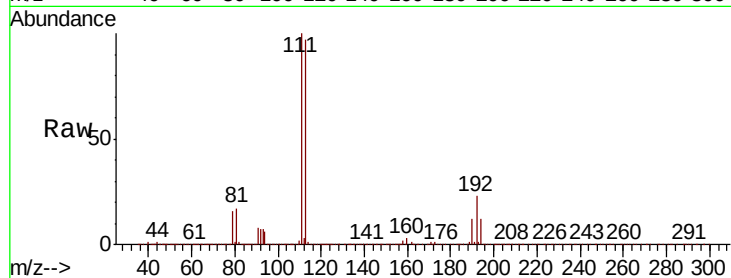
Tot Ion:113 Resp: 327149

Ion Ratio Lower Upper

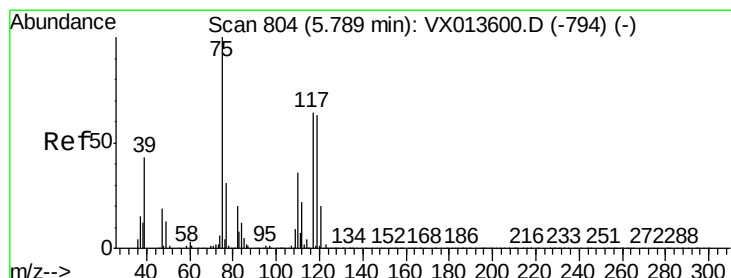
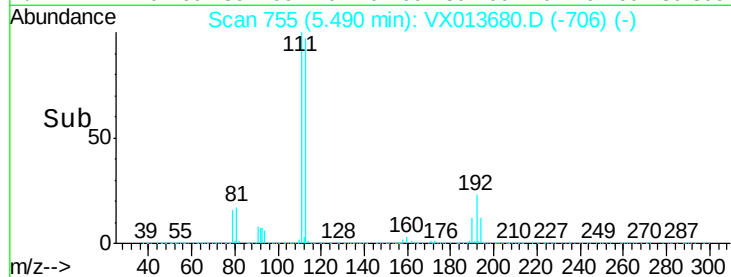
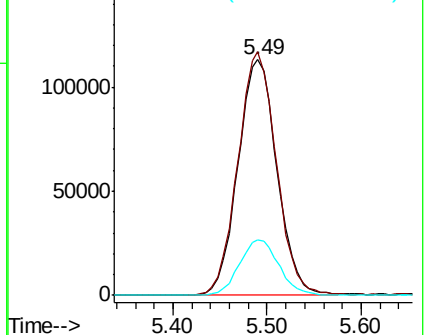
113 100

111 102.2 83.6 125.4

192 24.0 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: 4.712 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX013680.D

Acq: 28 Nov 2019 03:08

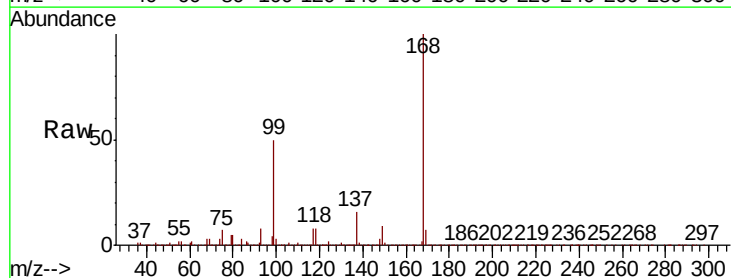
Tgt Ion: 75 Resp: 46983

Ion Ratio Lower Upper

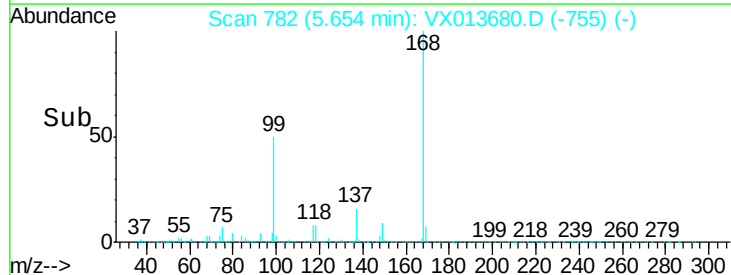
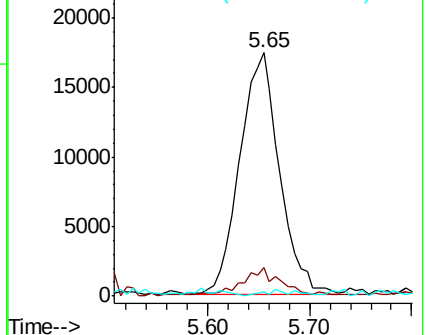
75 100

110 11.4 18.1 54.1#

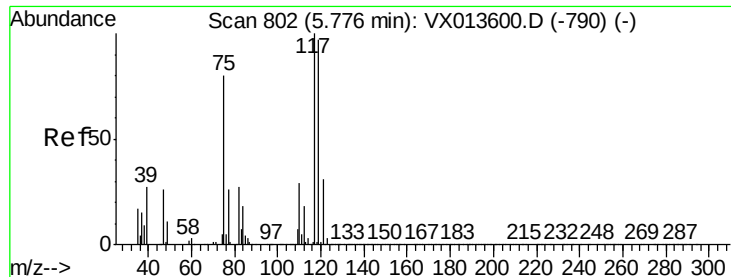
77 1.4 24.5 36.7#



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: 6.620 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013680.D

Acq: 28 Nov 2019 03:08

Instrument :

MSVOA\_X

ClientSampleId :

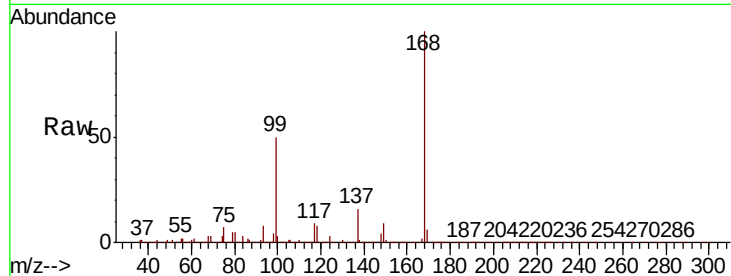
Tot Ion:117 Resp: 60865

Ion Ratio Lower Upper

117 100

119 3.4 77.5 116.3#

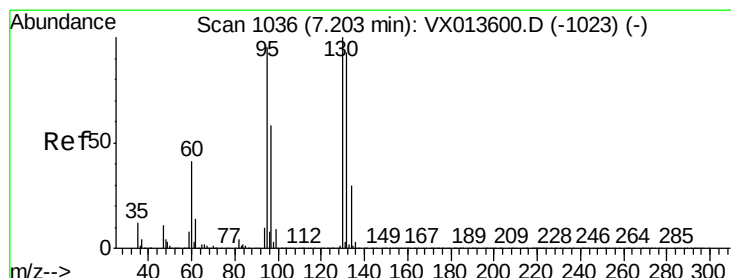
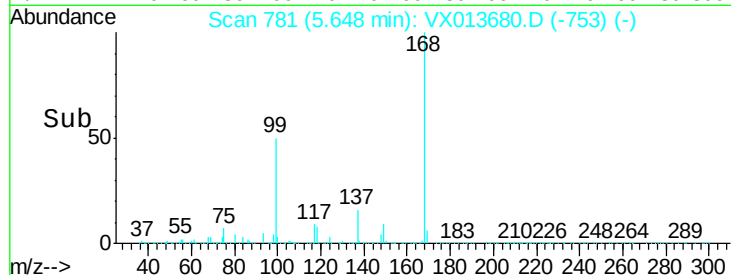
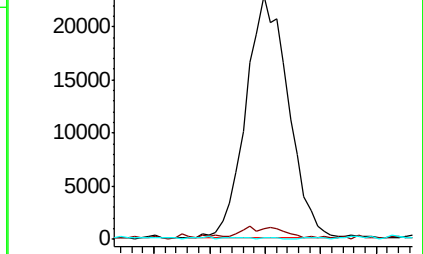
121 0.1 25.0 37.6#



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



#44

Trichloroethene

Concen: 1.818 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013680.D

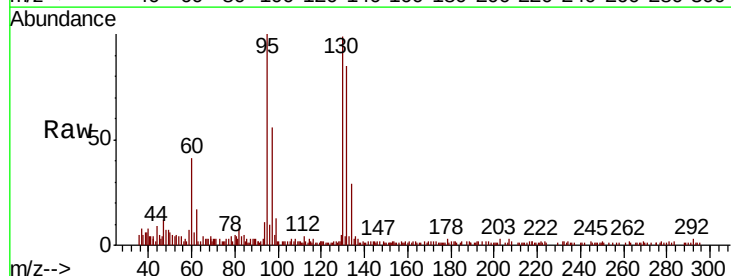
Acq: 28 Nov 2019 03:08

Tgt Ion:130 Resp: 15150

Ion Ratio Lower Upper

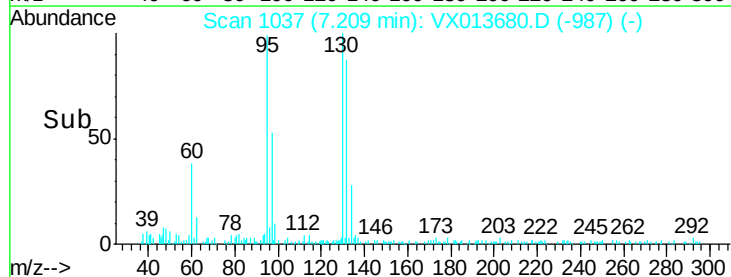
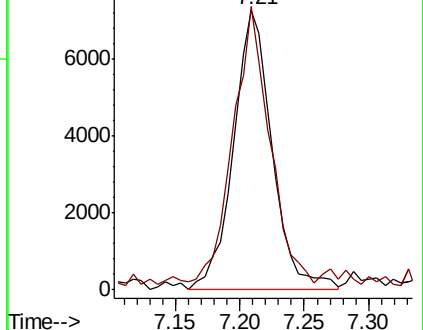
130 100

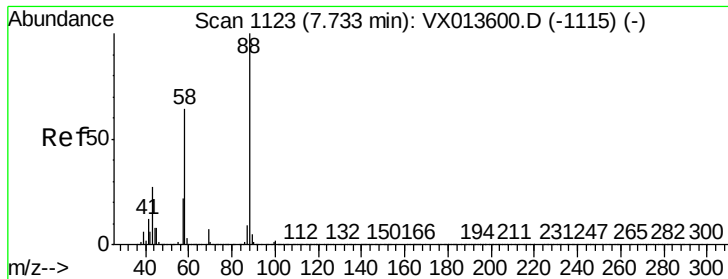
95 98.5 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V





#49

1,4-Dioxane

Concen: 1.947 ug/l

RT: 7.72 min Scan# 1120

Delta R.T. -0.02 min

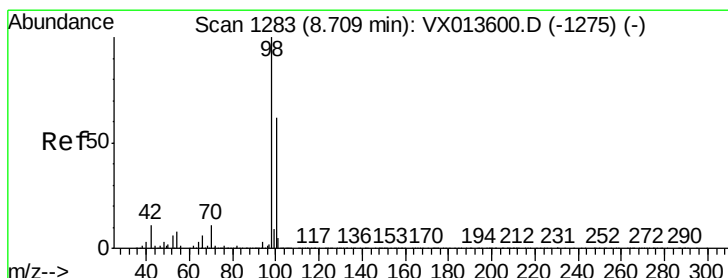
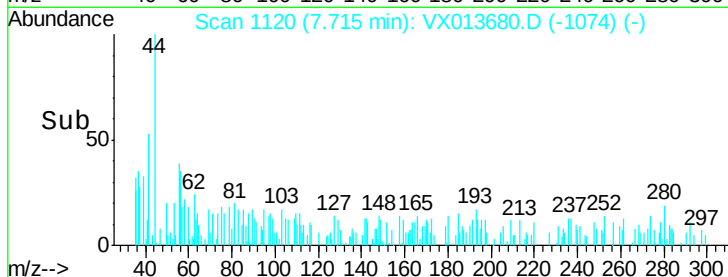
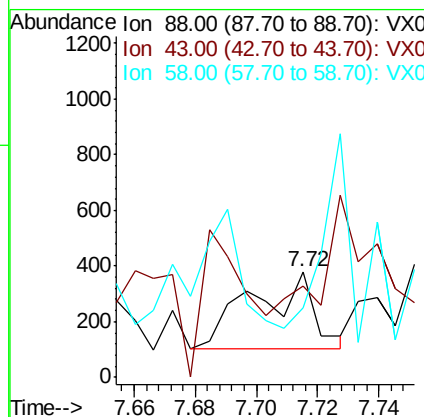
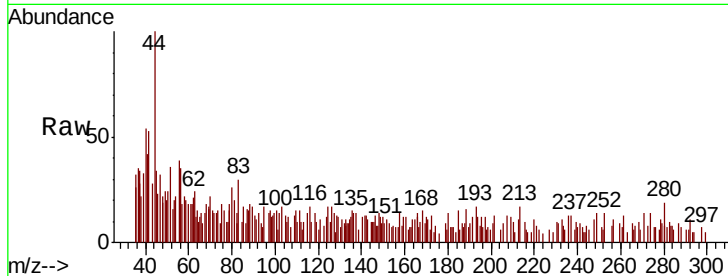
Lab File: VX013680.D

Acq: 28 Nov 2019 03:08

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion: 88 Resp: 390

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 88  | 100   |       |       |
| 43  | 79.7  | 25.8  | 38.6# |
| 58  | 151.5 | 54.6  | 82.0# |



#50

Toluene-d8

Concen: 48.796 ug/l

RT: 8.71 min Scan# 1283

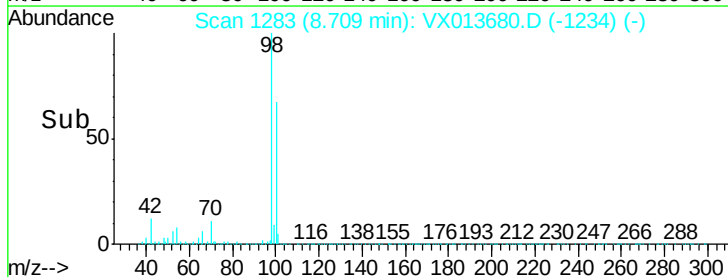
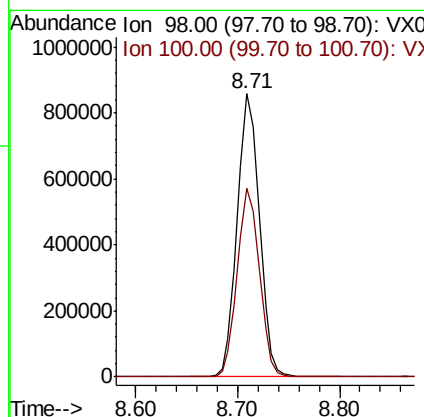
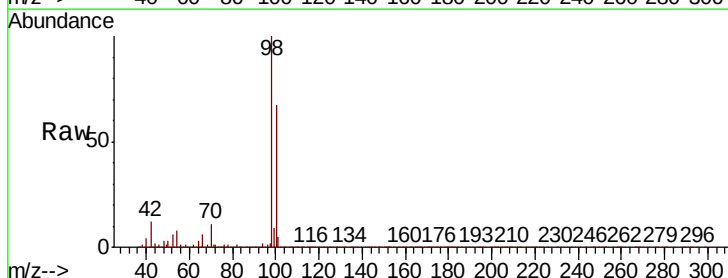
Delta R.T. -0.00 min

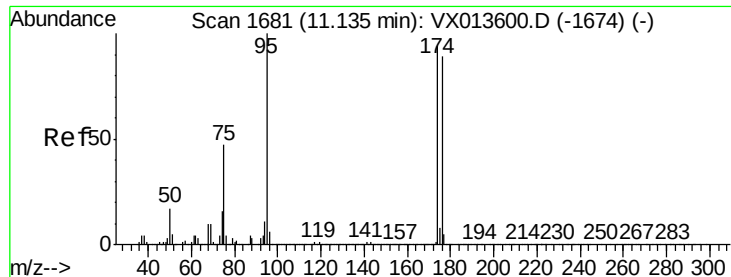
Lab File: VX013680.D

Acq: 28 Nov 2019 03:08

Tgt Ion: 98 Resp: 1290919

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 98  | 100   |       |       |
| 100 | 66.4  | 53.1  | 79.7  |





#62

4-Bromofluorobenzene

Concen: 45.864 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013680.D

Acq: 28 Nov 2019 03:08

Instrument :

MSVOA\_X

ClientSampleId :

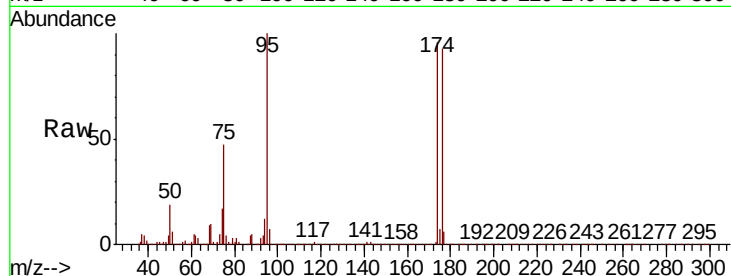
Tot Ion: 95 Resp: 437530

Ion Ratio Lower Upper

95 100

174 90.3 0.0 180.0

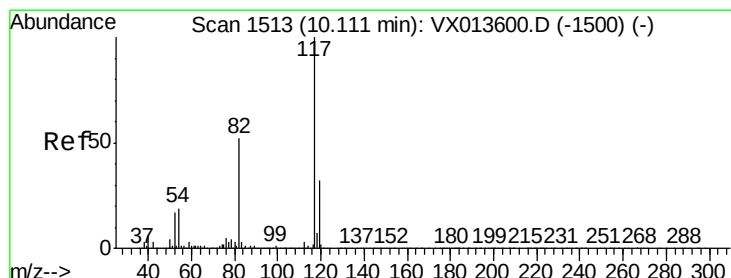
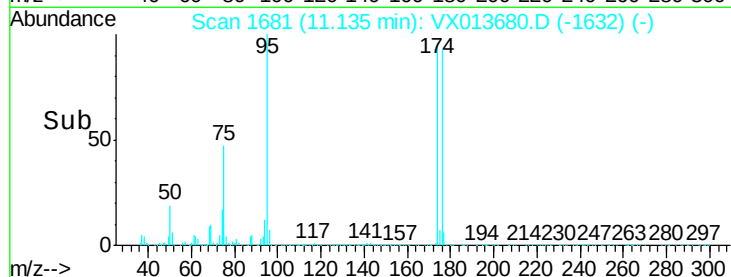
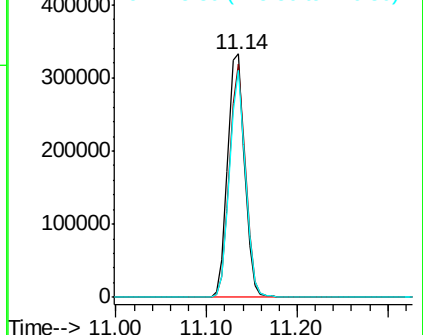
176 87.2 0.0 173.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013680.D

Acq: 28 Nov 2019 03:08

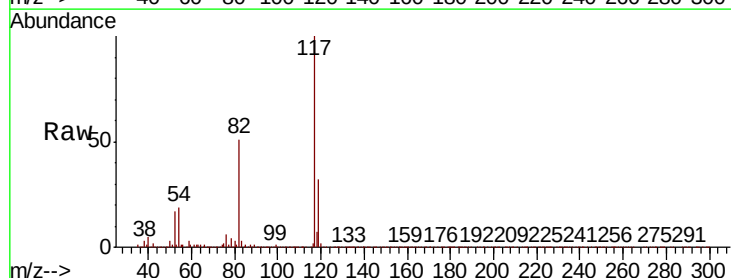
Tgt Ion: 117 Resp: 978926

Ion Ratio Lower Upper

117 100

82 51.3 41.8 62.8

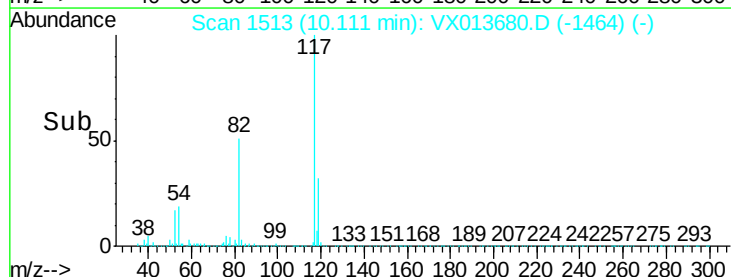
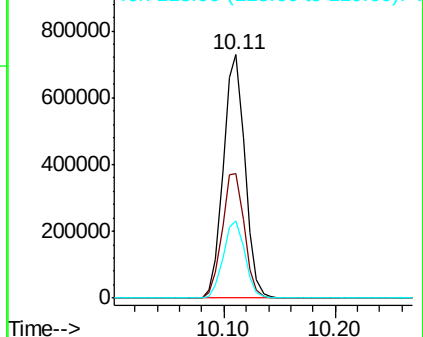
119 31.8 25.8 38.8

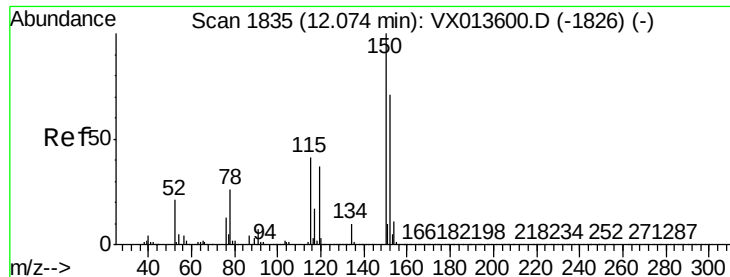


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

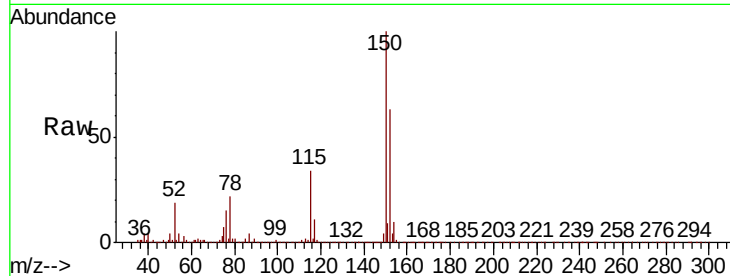




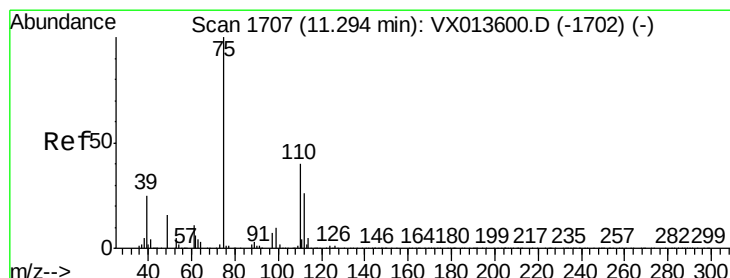
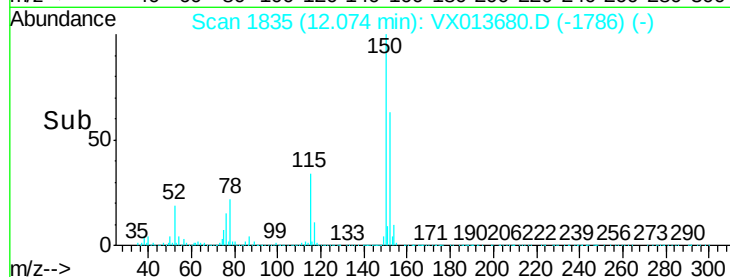
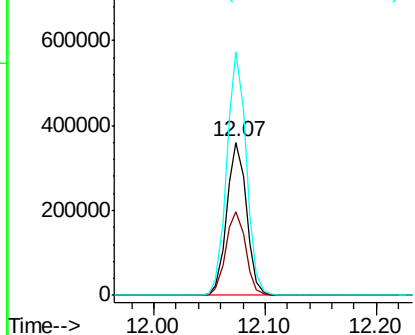
#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.07 min Scan# 1835  
 Delta R.T. -0.00 min  
 Lab File: VX013680.D  
 Acq: 28 Nov 2019 03:08

Instrument :  
 MSVOA\_X  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 55.3  | 38.4  | 115.1 |
| 150     | 157.6 | 0.0   | 346.8 |

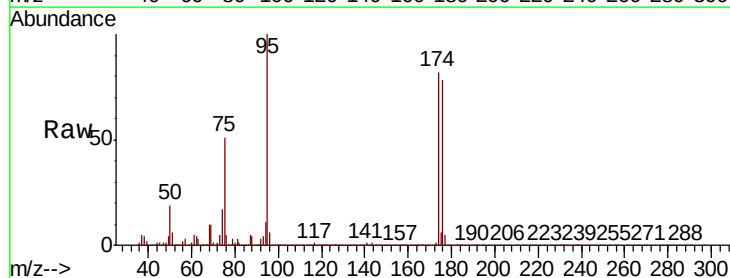


Abundance Ion 151.90 (151.60 to 152.60): V  
 Ion 114.90 (114.60 to 115.60): V  
 Ion 149.90 (149.60 to 150.60): V

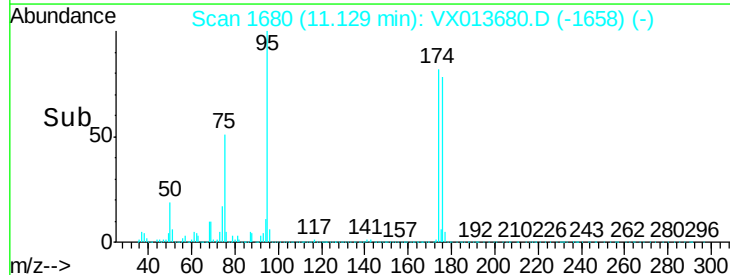
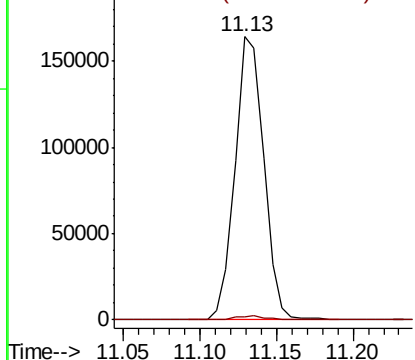


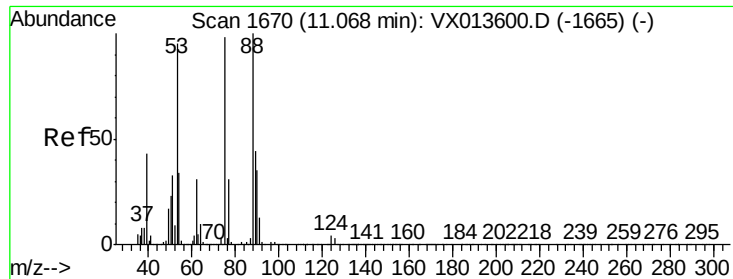
#76  
 1,2,3-Trichloropropane  
 Concen: 21.572 ug/l  
 RT: 11.13 min Scan# 1680  
 Delta R.T. -0.16 min  
 Lab File: VX013680.D  
 Acq: 28 Nov 2019 03:08

| Tgt 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

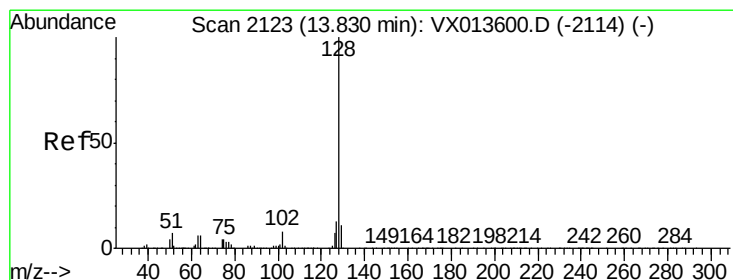
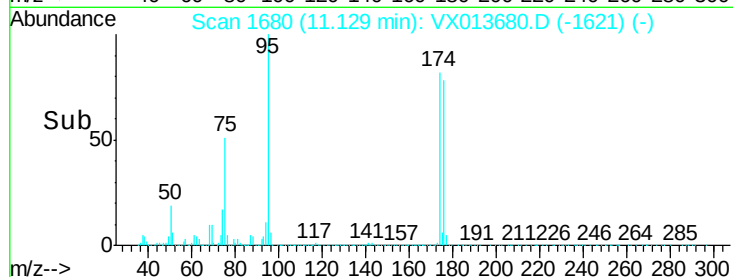
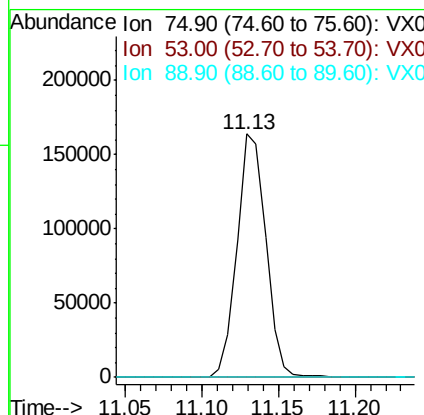
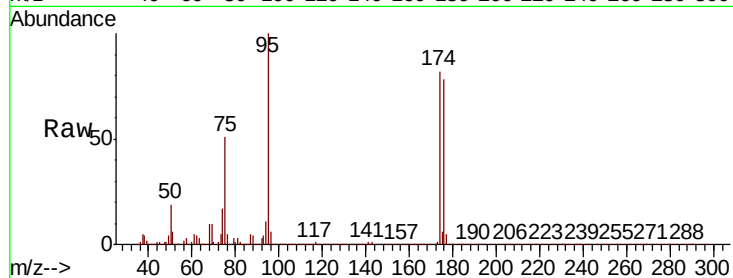




#81  
trans-1,4-Dichloro-2-butene  
Concen: 59.018 ug/l  
RT: 11.13 min Scan# 1680  
Delta R.T. 0.06 min  
Lab File: VX013680.D  
Acq: 28 Nov 2019 03:08

Instrument :  
MSVOA\_X  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 53      | 0.0   | 78.2  | 117.2# |
| 89      | 0.0   | 35.4  | 53.2#  |



#95  
Naphthalene  
Concen: 0.791 ug/l  
RT: 13.83 min Scan# 2123  
Delta R.T. -0.00 min  
Lab File: VX013680.D  
Acq: 28 Nov 2019 03:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.7  | 10.3  | 15.5  |
| 129     | 11.1  | 8.7   | 13.1  |

