

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120619\  
 Data File : VX013825.D  
 Acq On : 07 Dec 2019 01:58  
 Operator : JC/SP  
 Sample : K6185-11  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE125D1-20191205

Quant Time: Dec 07 05:40:00 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  | 619379   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 958699   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 844752   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 361168   | 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   | 344978   | 47.98 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.96% |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 285011   | 48.09 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.18% |          |
| 50) Toluene-d8              | 8.71  | 98   | 1124907  | 48.72 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.44% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 368730   | 44.28 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 88.56% |          |

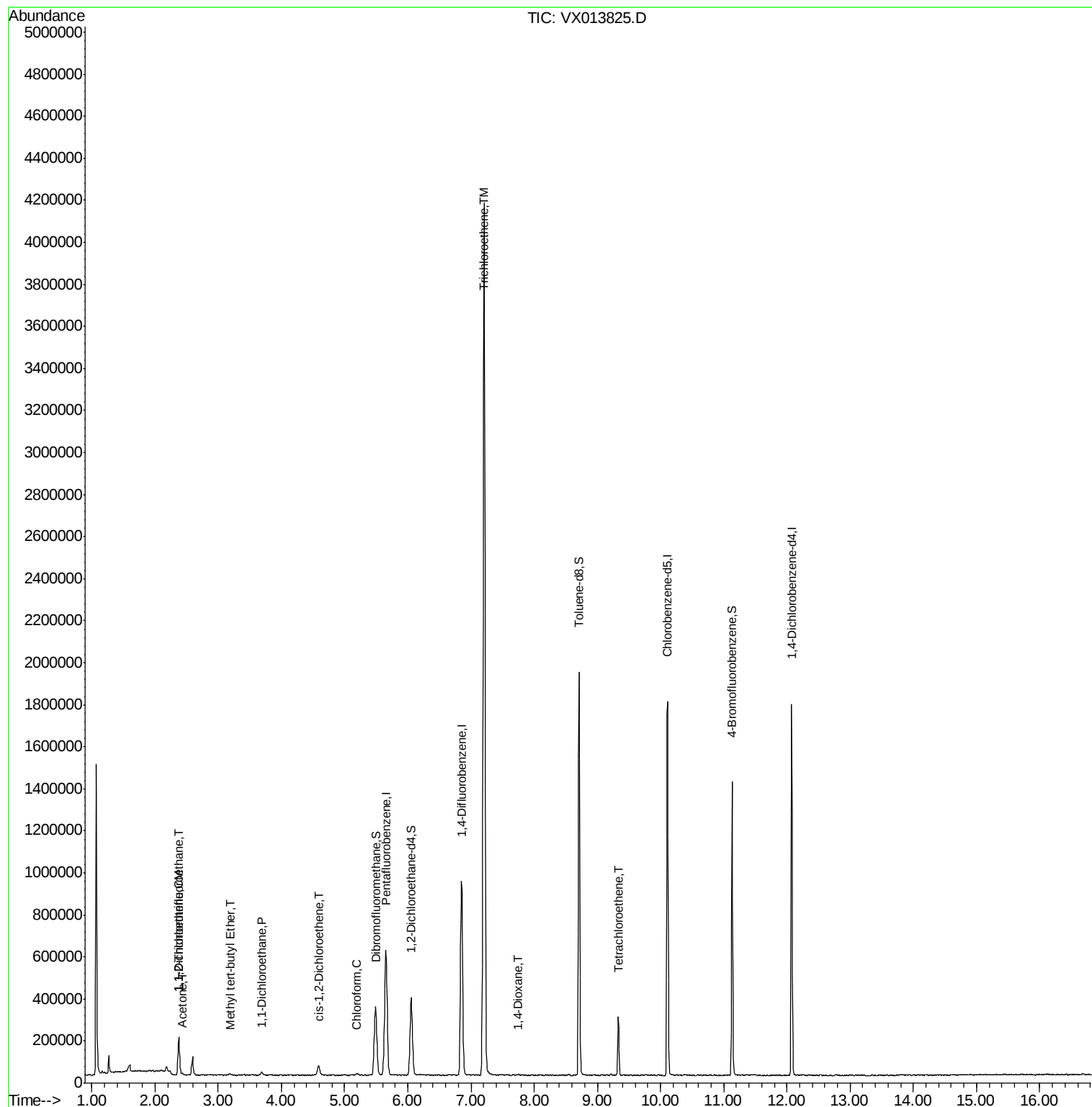
| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101  | 63097    | 10.685  | ug/l   | 98     |
| 12) 1,1-Dichloroethene        | 2.37 | 96   | 12289    | 2.085   | ug/l   | 96     |
| 16) Acetone                   | 2.44 | 43   | 9155     | 2.579   | ug/l   | 92     |
| 19) Methyl tert-butyl Ether   | 3.19 | 73   | 7536     | 0.386   | ug/l # | 67     |
| 24) 1,1-Dichloroethane        | 3.69 | 63   | 17068    | 1.516   | ug/l # | 86     |
| 27) cis-1,2-Dichloroethene    | 4.59 | 96   | 30497    | 4.136   | ug/l   | 84     |
| 30) Chloroform                | 5.20 | 83   | 8268     | 0.724   | ug/l   | 94     |
| 44) Trichloroethene           | 7.21 | 130  | 1658364  | 227.977 | ug/l   | 98     |
| 49) 1,4-Dioxane               | 7.74 | 88   | 3606     | 20.629  | ug/l # | 95     |
| 64) Tetrachloroethene         | 9.33 | 164  | 56101    | 8.905   | ug/l   | 98     |

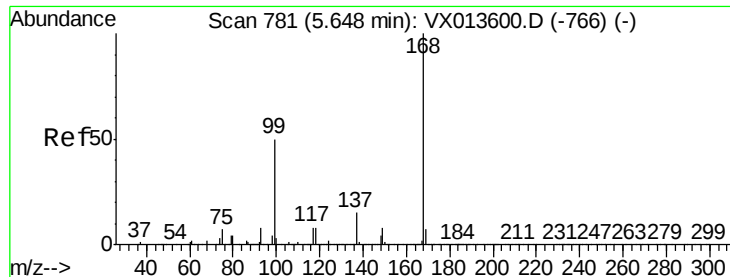
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 782

Delta R.T. 0.01 min

Lab File: VX013825.D

Acq: 07 Dec 2019 01:58

Instrument :

MSVOA\_X

ClientSampleId :

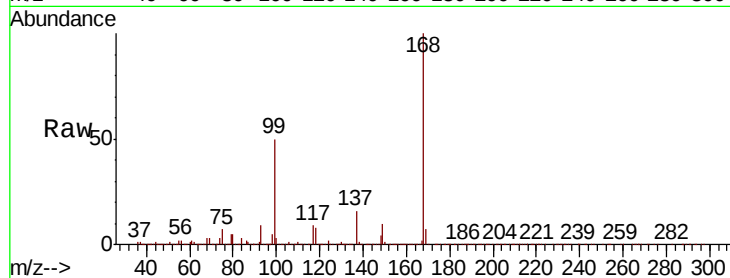
RE125D1-20191205

Tot Ion:168 Resp: 619379

Ion Ratio Lower Upper

168 100

99 49.8 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

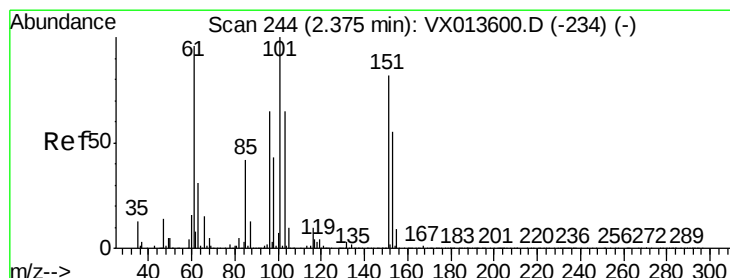
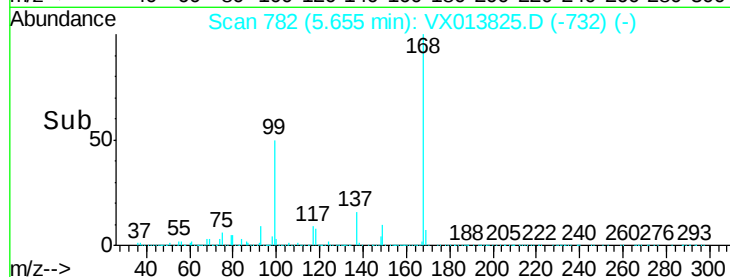
150000

100000

50000

0

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 10.685 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.00 min

Lab File: VX013825.D

Acq: 07 Dec 2019 01:58

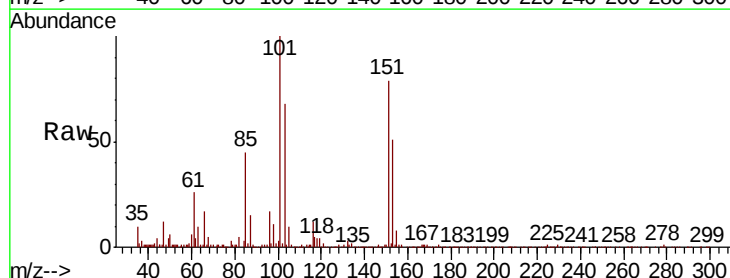
Tgt Ion:101 Resp: 63097

Ion Ratio Lower Upper

101 100

85 42.4 33.9 50.9

151 82.7 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

2.37

40000

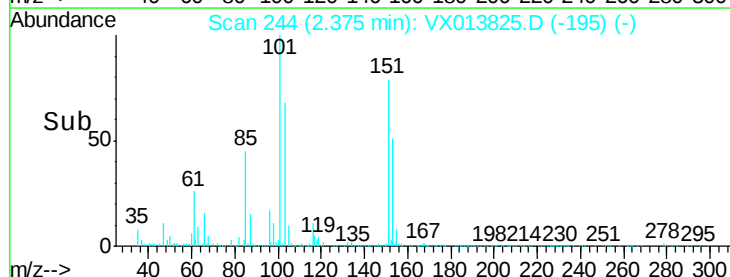
30000

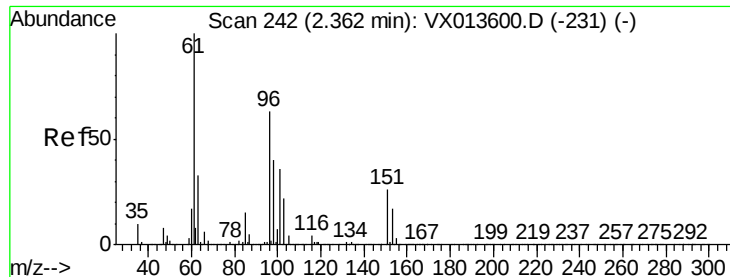
20000

10000

0

Time-->





#12

1,1-Dichloroethene

Concen: 2.085 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.01 min

Lab File: VX013825.D

Acq: 07 Dec 2019 01:58

Instrument :

MSVOA\_X

ClientSampleId :

RE125D1-20191205

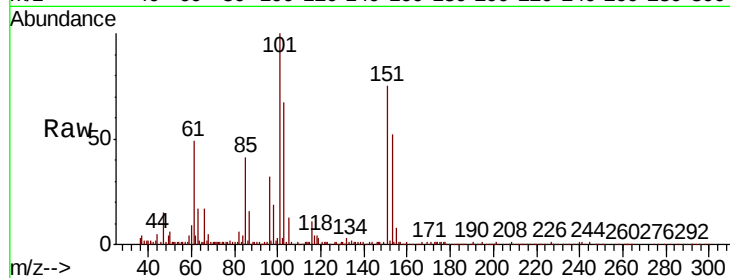
Tot Ion: 96 Resp: 12289

Ion Ratio Lower Upper

96 100

61 154.1 126.6 190.0

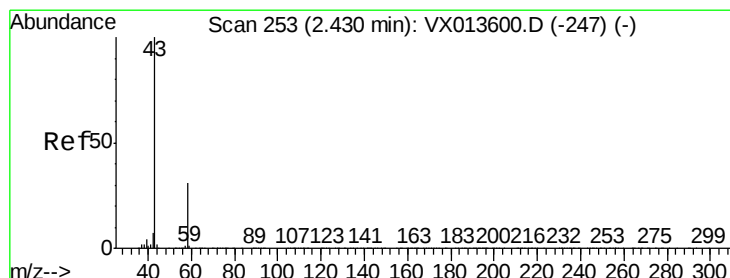
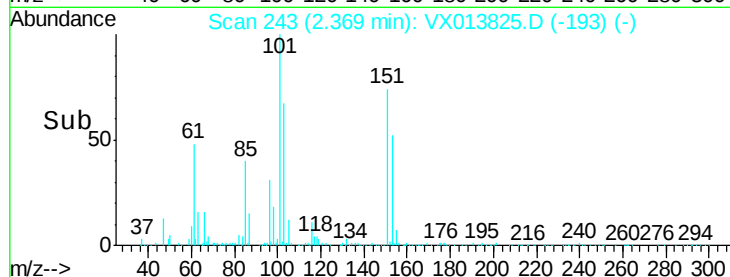
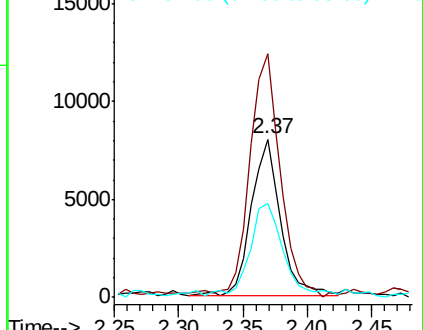
98 58.3 50.6 76.0



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



#16

Acetone

Concen: 2.579 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.01 min

Lab File: VX013825.D

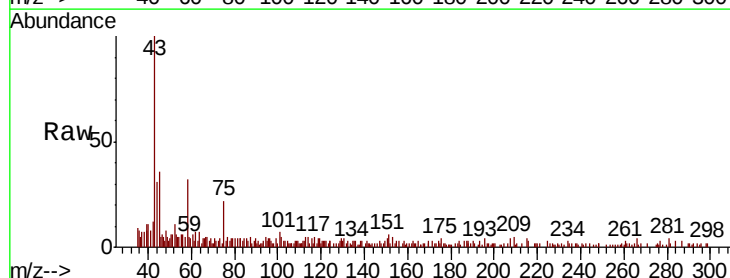
Acq: 07 Dec 2019 01:58

Tgt Ion: 43 Resp: 9155

Ion Ratio Lower Upper

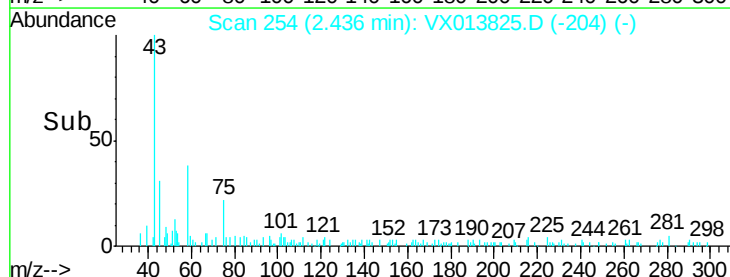
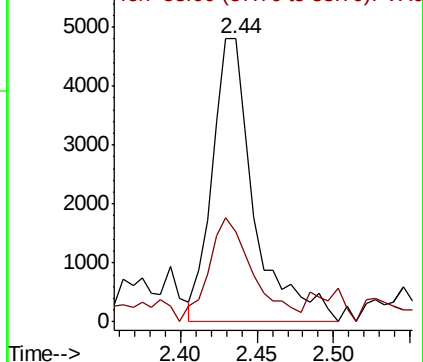
43 100

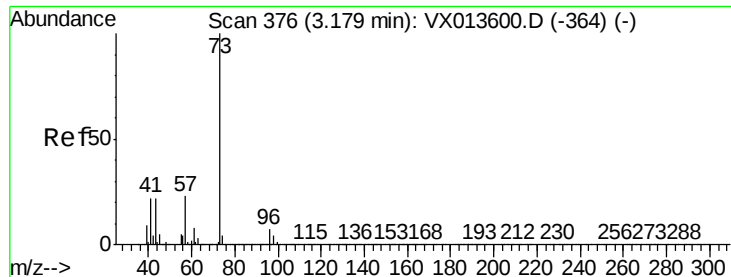
58 26.5 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



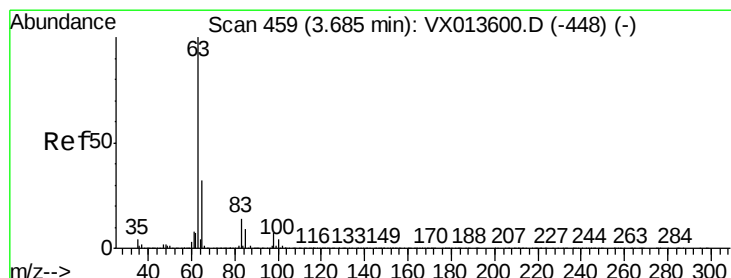
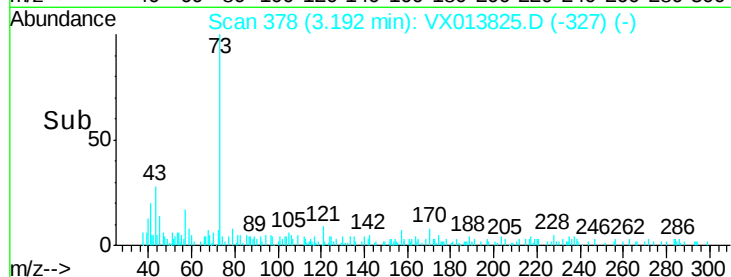
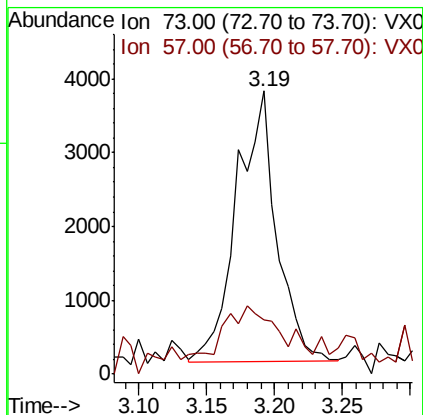
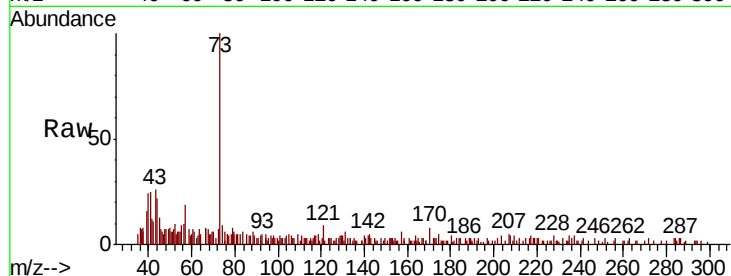


#19

Methyl tert-butyl Ether  
 Concen: 0.386 ug/l  
 RT: 3.19 min Scan# 378  
 Delta R.T. 0.01 min  
 Lab File: VX013825.D  
 Acq: 07 Dec 2019 01:58

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE125D1-20191205

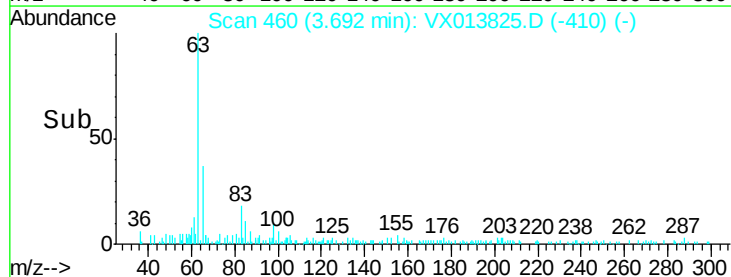
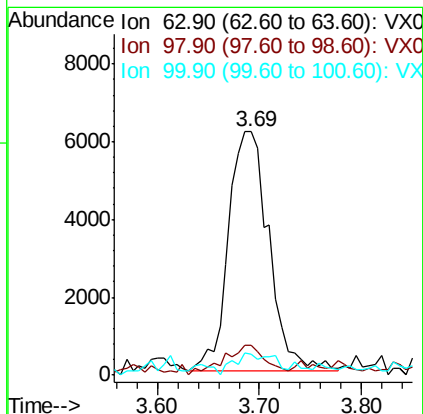
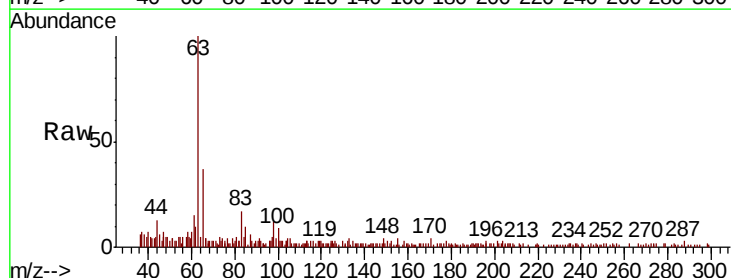
Tot Ion: 73 Resp: 7536  
 Ion Ratio Lower Upper  
 73 100  
 57 6.7 18.3 27.5#

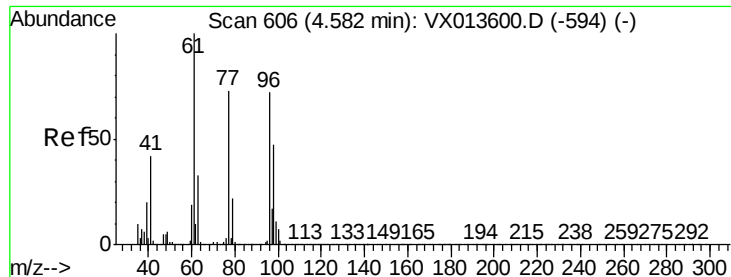


#24

1,1-Dichloroethane  
 Concen: 1.516 ug/l  
 RT: 3.69 min Scan# 460  
 Delta R.T. 0.01 min  
 Lab File: VX013825.D  
 Acq: 07 Dec 2019 01:58

Tgt Ion: 63 Resp: 17068  
 Ion Ratio Lower Upper  
 63 100  
 98 12.8 3.5 10.4#  
 100 7.1 2.1 6.3#



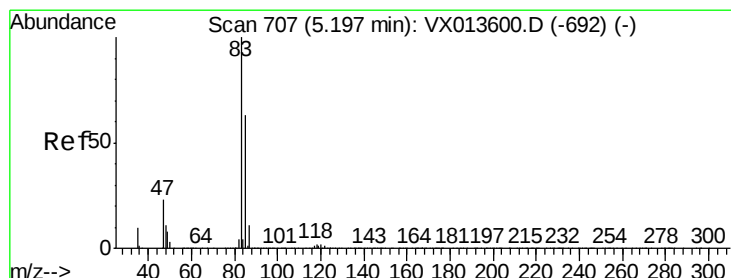
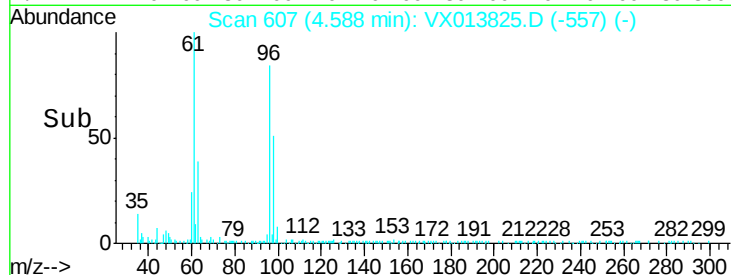
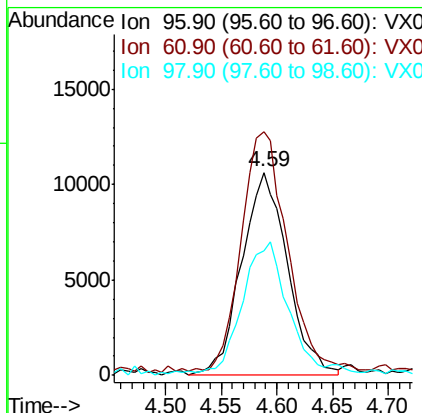
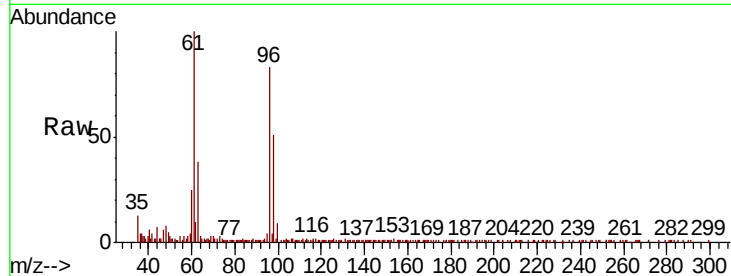


#27

cis-1,2-Dichloroethene  
 Concen: 4.136 ug/l  
 RT: 4.59 min Scan# 607  
 Delta R.T. 0.01 min  
 Lab File: VX013825.D  
 Acq: 07 Dec 2019 01:58

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE125D1-20191205

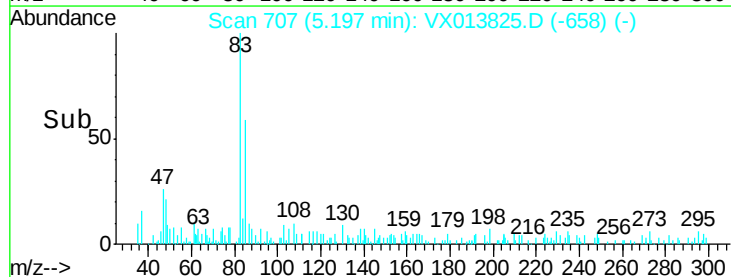
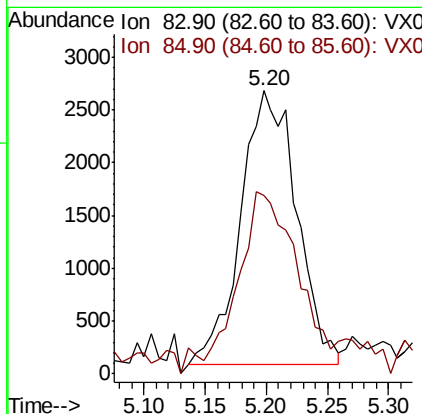
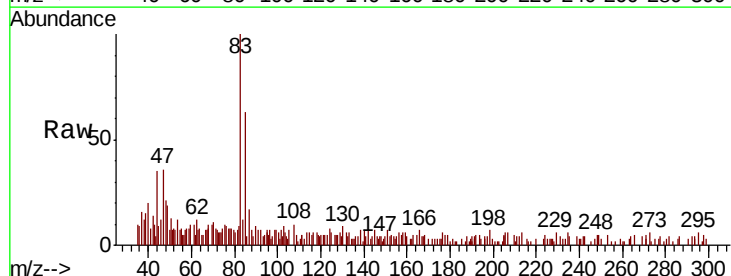
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 116.5 | 0.0   | 286.4 |
| 98      | 61.7  | 0.0   | 127.4 |

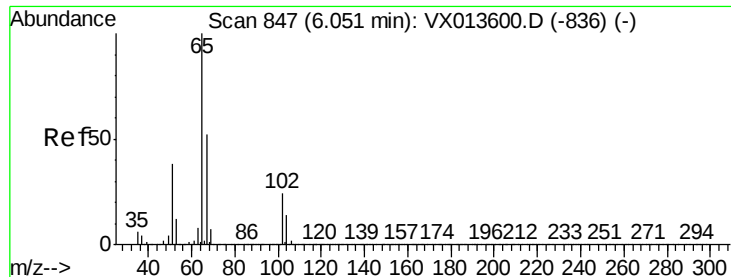


#30

Chloroform  
 Concen: 0.724 ug/l  
 RT: 5.20 min Scan# 707  
 Delta R.T. 0.00 min  
 Lab File: VX013825.D  
 Acq: 07 Dec 2019 01:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 58.1  | 50.2  | 75.4  |





#33

1,2-Dichloroethane-d4

Concen: 47.983 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX013825.D

Acq: 07 Dec 2019 01:58

Instrument :

MSVOA\_X

ClientSampleId :

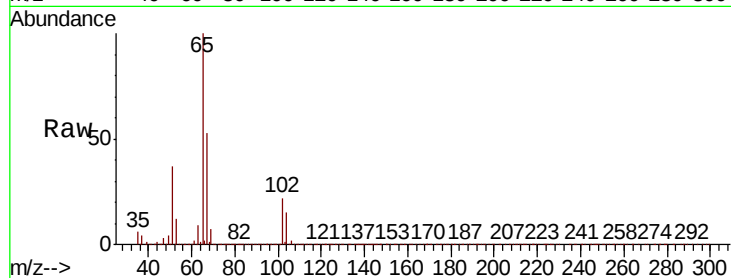
RE125D1-20191205

Tot Ion: 65 Resp: 344978

Ion Ratio Lower Upper

65 100

67 52.6 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

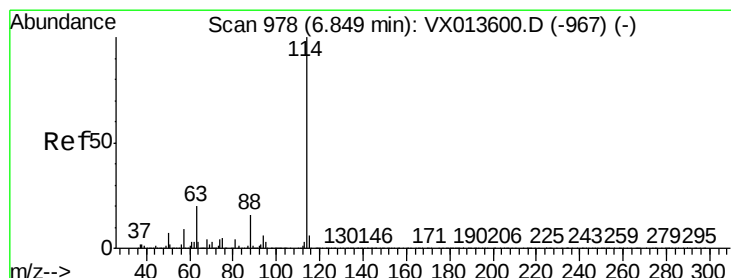
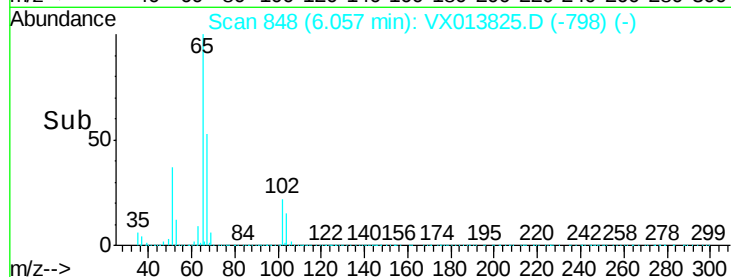
150000

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: VX013825.D

Acq: 07 Dec 2019 01:58

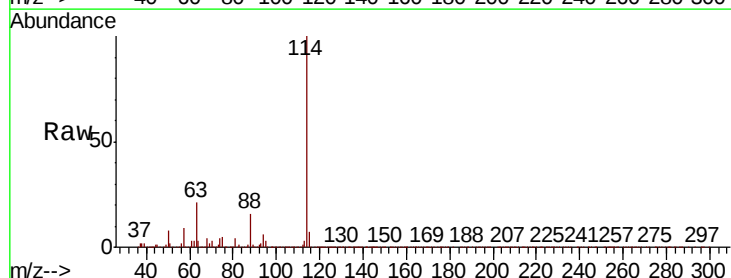
Tgt Ion: 114 Resp: 958699

Ion Ratio Lower Upper

114 100

63 20.8 0.0 39.6

88 15.6 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

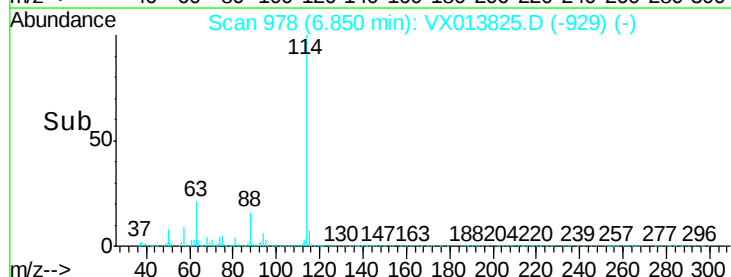
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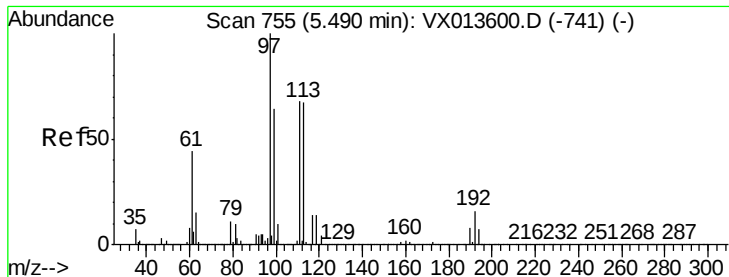
200000

100000

0

Time--> 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 48.089 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013825.D

Acq: 07 Dec 2019 01:58

Instrument :

MSVOA\_X

ClientSampleId :

RE125D1-20191205

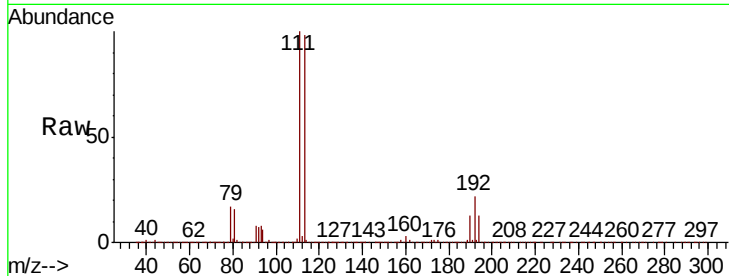
Tot Ion:113 Resp: 285011

Ion Ratio Lower Upper

113 100

111 101.8 83.6 125.4

192 23.5 19.2 28.8



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

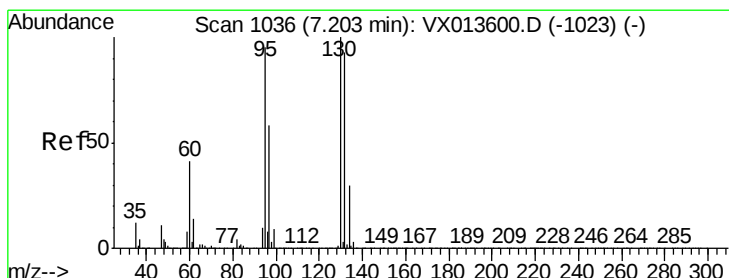
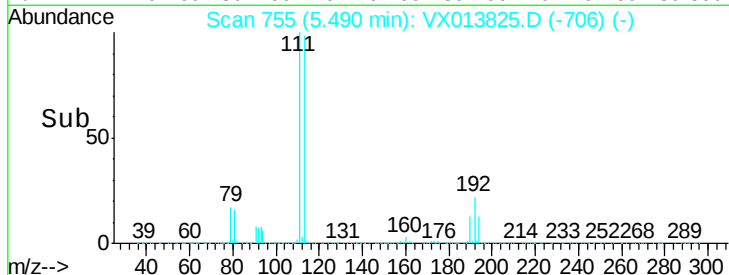
Ion 191.70 (191.40 to 192.40): V

100000

50000

5.49

Time-->



#44

Trichloroethene

Concen: 227.977 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013825.D

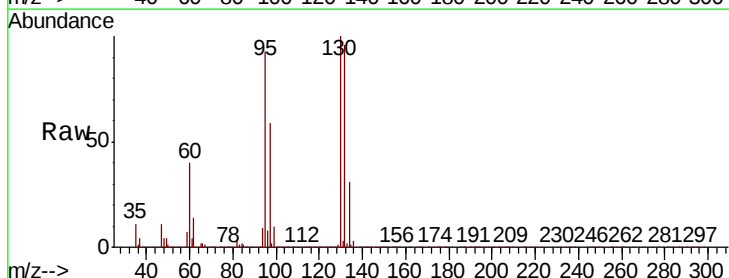
Acq: 07 Dec 2019 01:58

Tgt Ion:130 Resp: 1658364

Ion Ratio Lower Upper

130 100

95 93.2 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

800000

600000

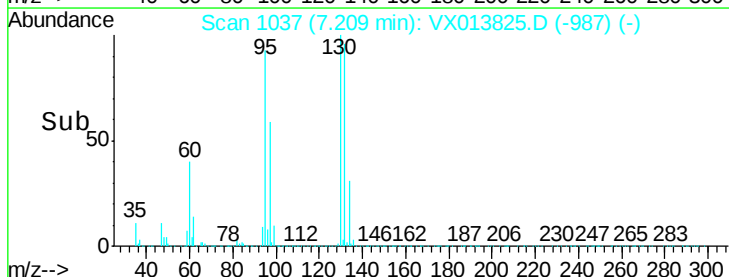
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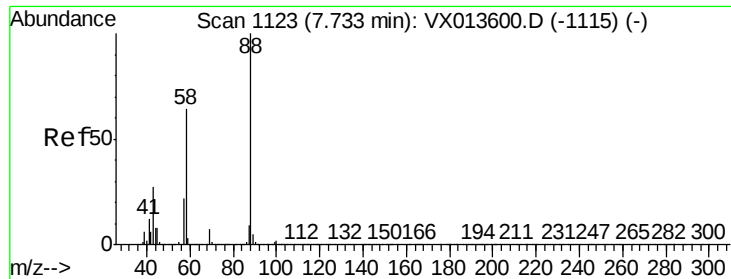
200000

0

7.21

Time-->





#49

1,4-Dioxane

Concen: 20.629 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VX013825.D

Acq: 07 Dec 2019 01:58

Instrument :

MSVOA\_X

ClientSampleId :

RE125D1-20191205

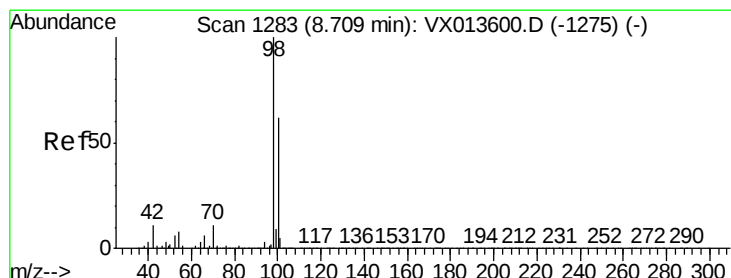
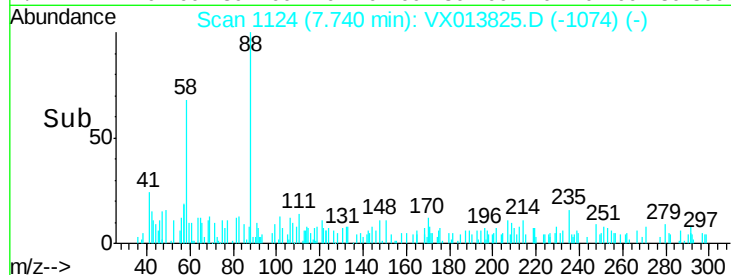
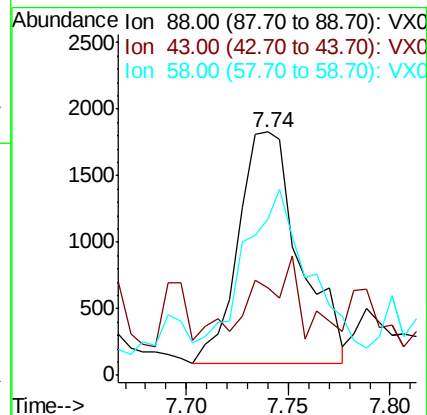
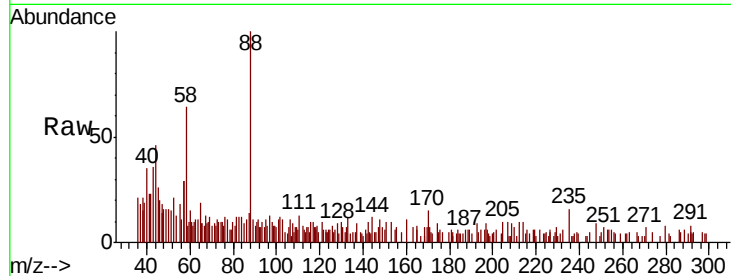
Tot Ion: 88 Resp: 3606

Ion Ratio Lower Upper

88 100

43 25.5 25.8 38.6#

58 70.0 54.6 82.0



#50

Toluene-d8

Concen: 48.715 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013825.D

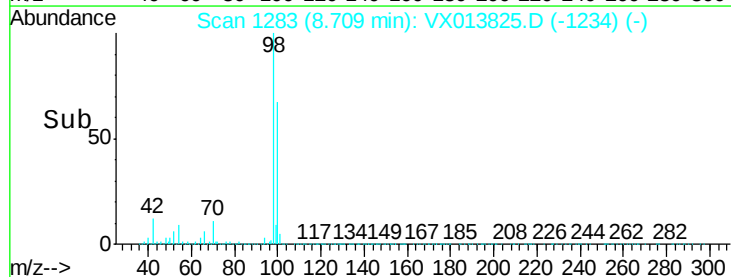
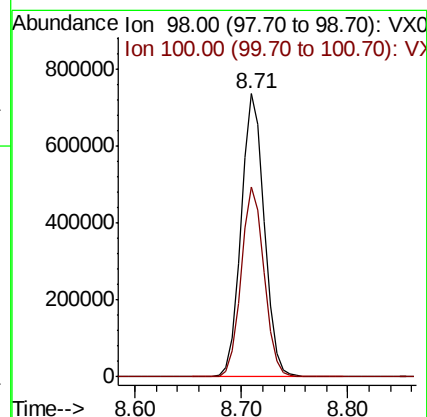
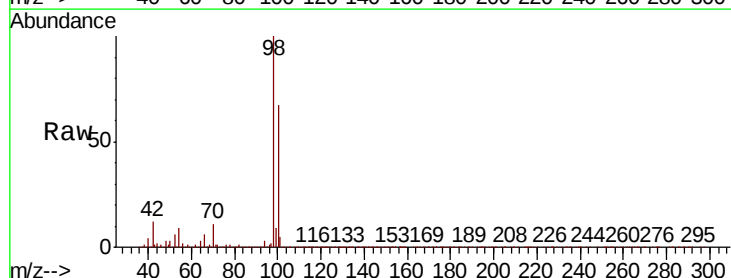
Acq: 07 Dec 2019 01:58

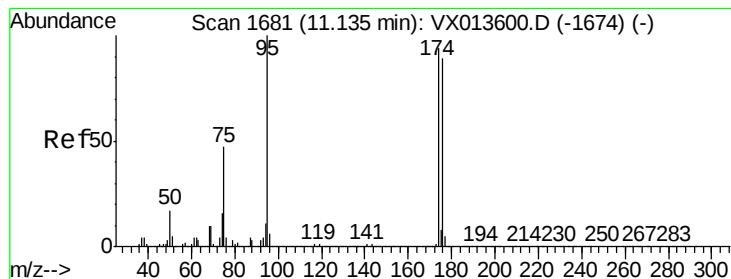
Tgt Ion: 98 Resp: 1124907

Ion Ratio Lower Upper

98 100

100 66.4 53.1 79.7





#62

4-Bromofluorobenzene

Concen: 44.282 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX013825.D

Acq: 07 Dec 2019 01:58

Instrument :

MSVOA\_X

ClientSampleId :

RE125D1-20191205

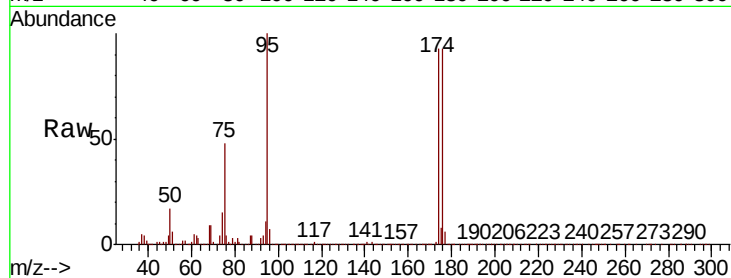
Tot Ion: 95 Resp: 368730

Ion Ratio Lower Upper

95 100

174 89.7 0.0 180.0

176 88.1 0.0 173.6

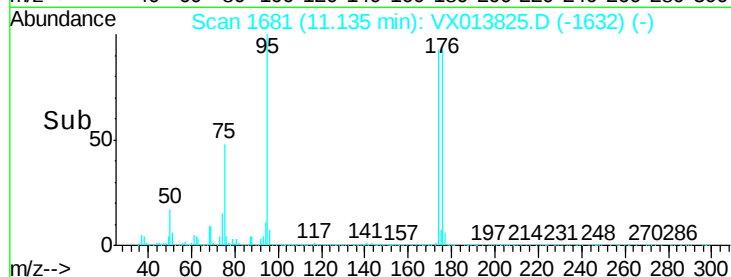


Abundance Ion 94.90 (94.60 to 95.60): VX013600.D (-1674) (-)

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

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

Time-->

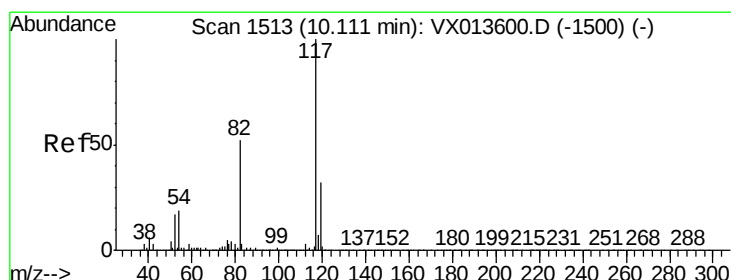


Abundance Ion 94.90 (94.60 to 95.60): VX013825.D (-1632) (-)

Ion 173.80 (173.50 to 174.50): VX013825.D (-1632) (-)

Ion 175.80 (175.50 to 176.50): VX013825.D (-1632) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX013825.D

Acq: 07 Dec 2019 01:58

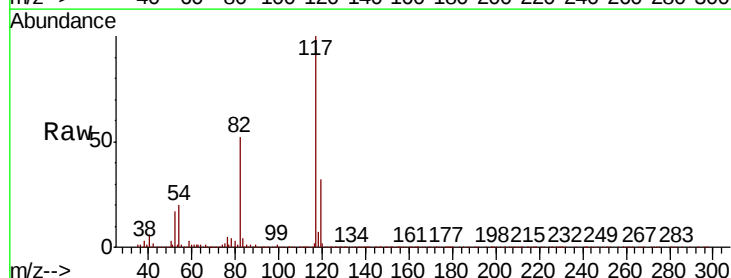
Tgt Ion: 117 Resp: 844752

Ion Ratio Lower Upper

117 100

82 52.3 41.8 62.8

119 32.0 25.8 38.8

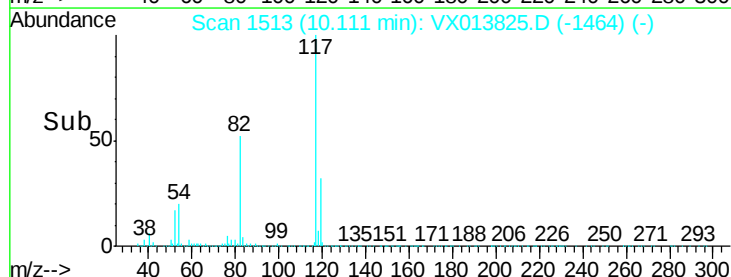


Abundance Ion 116.90 (116.60 to 117.60): VX013600.D (-1500) (-)

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

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

Time-->

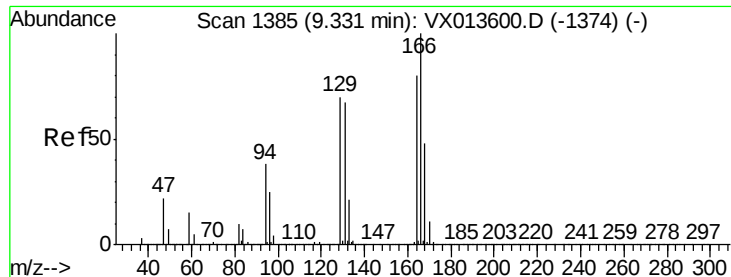


Abundance Ion 116.90 (116.60 to 117.60): VX013825.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX013825.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX013825.D (-1464) (-)

Time-->



#64

Tetrachloroethene

Concen: 8.905 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX013825.D

Acq: 07 Dec 2019 01:58

Instrument :

MSVOA\_X

ClientSampleId :

RE125D1-20191205

Tot Ion:164 Resp: 56101

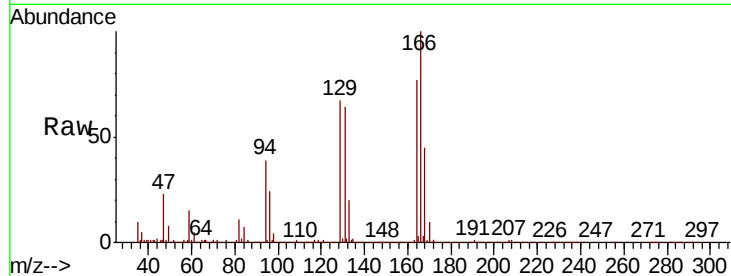
Ion Ratio Lower Upper

164 100

166 129.5 99.7 149.5

129 86.3 70.1 105.1

131 83.5 66.9 100.3



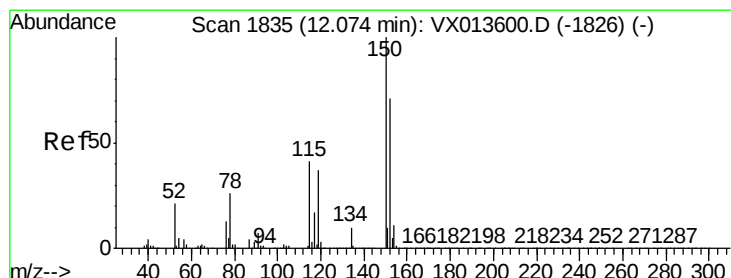
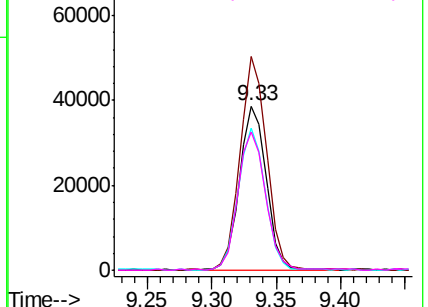
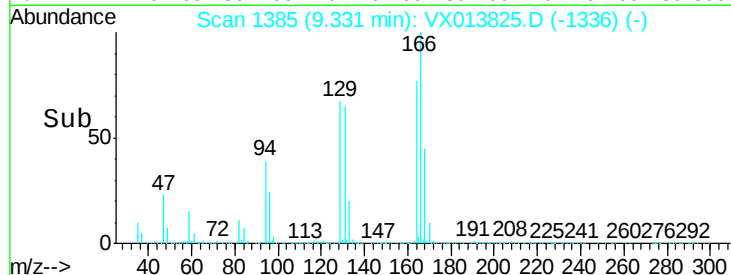
Abundance

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: VX013825.D

Acq: 07 Dec 2019 01:58

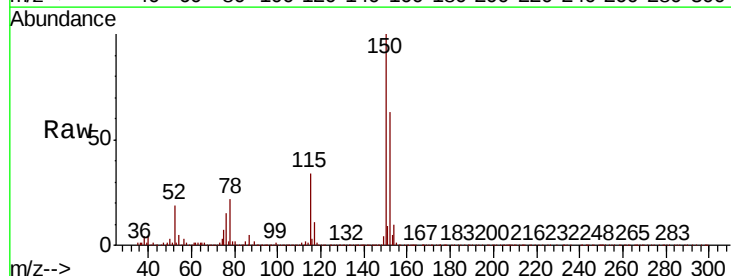
Tgt Ion:152 Resp: 361168

Ion Ratio Lower Upper

152 100

115 56.1 38.4 115.1

150 159.2 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

