

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112919\  
 Data File : VX013705.D  
 Acq On : 29 Nov 2019 16:46  
 Operator : JC/SP  
 Sample : K5965-06  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 S39-0193

Quant Time: Dec 02 06:54:21 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  | 679061   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 1039481  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 924406   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 415705   | 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   | 375534   | 47.64 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.28% |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 309999   | 48.24 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.48% |          |
| 50) Toluene-d8              | 8.71  | 98   | 1233363  | 49.26 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.52% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 412729   | 45.71 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.42% |          |

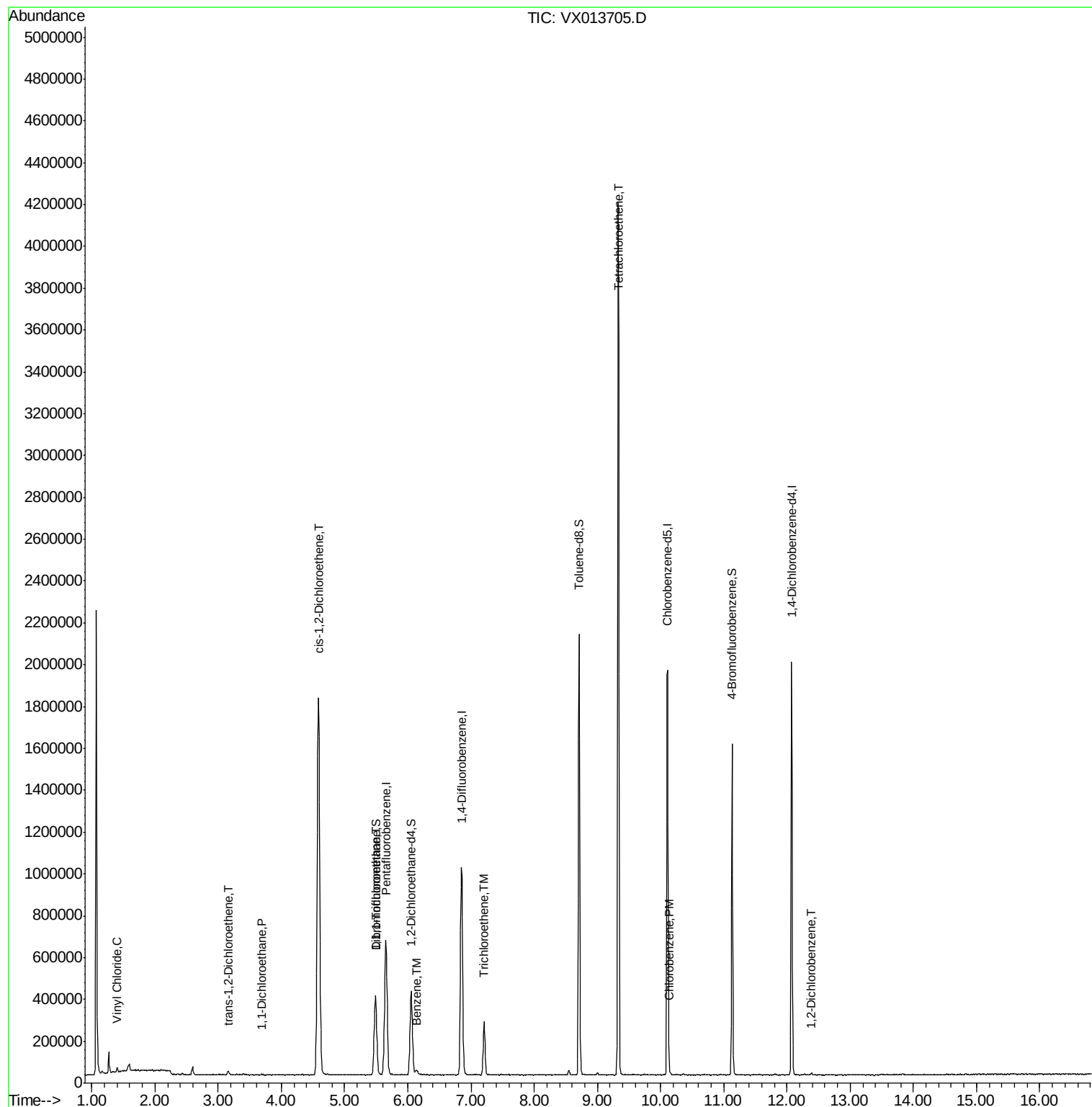
| Target Compounds             | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|------------------------------|-------|------|----------|---------|--------|--------|
| 4) Vinyl Chloride            | 1.40  | 62   | 13455    | 1.410   | ug/l # | 87     |
| 21) trans-1,2-Dichloroethene | 3.16  | 96   | 9047     | 1.285   | ug/l   | 97     |
| 24) 1,1-Dichloroethane       | 3.69  | 63   | 4878     | 0.395   | ug/l # | 88     |
| 27) cis-1,2-Dichloroethene   | 4.59  | 96   | 1154309  | 142.775 | ug/l   | 89     |
| 32) 1,1,1-Trichloroethane    | 5.49  | 97   | 17959    | 1.717   | ug/l   | 97     |
| 40) Benzene                  | 6.13  | 78   | 27244    | 0.948   | ug/l   | 97     |
| 44) Trichloroethene          | 7.21  | 130  | 104494   | 13.249  | ug/l   | 97     |
| 64) Tetrachloroethene        | 9.33  | 164  | 836182   | 121.297 | ug/l   | 98     |
| 65) Chlorobenzene            | 10.14 | 112  | 8650     | 0.451   | ug/l   | 90     |
| 91) 1,2-Dichlorobenzene      | 12.39 | 146  | 2998     | 0.221   | ug/l   | 77     |

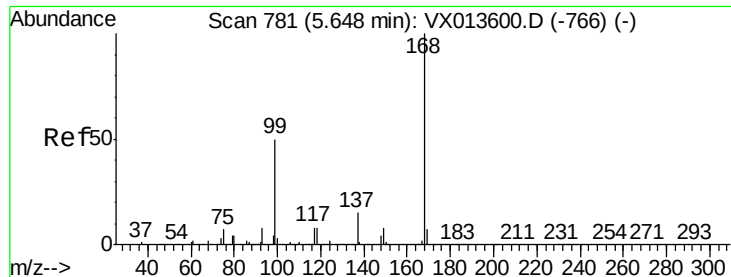
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 782

Delta R.T. 0.01 min

Lab File: VX013705.D

Acq: 29 Nov 2019 16:46

Instrument :

MSVOA\_X

ClientSampled :

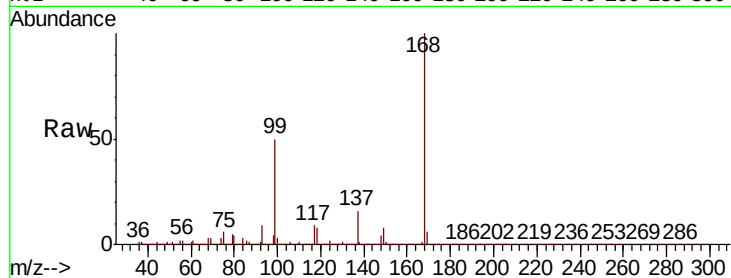
S39-0193

Tot Ion:168 Resp: 679061

Ion Ratio Lower Upper

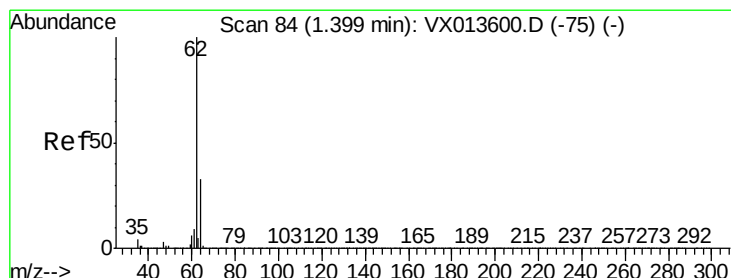
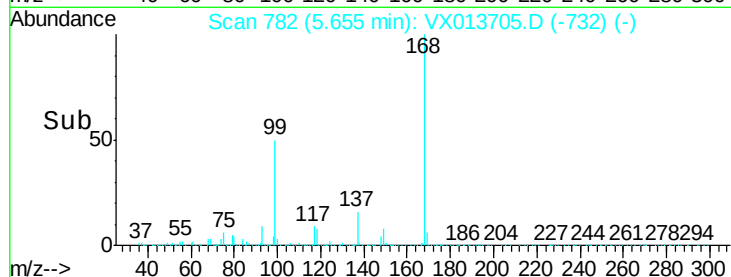
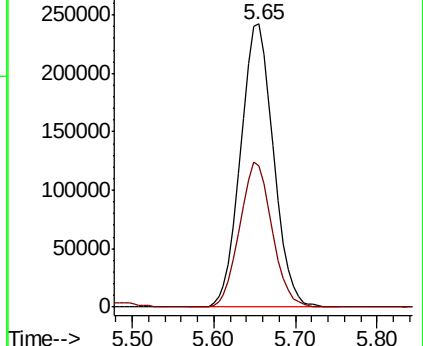
168 100

99 50.0 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 1.410 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX013705.D

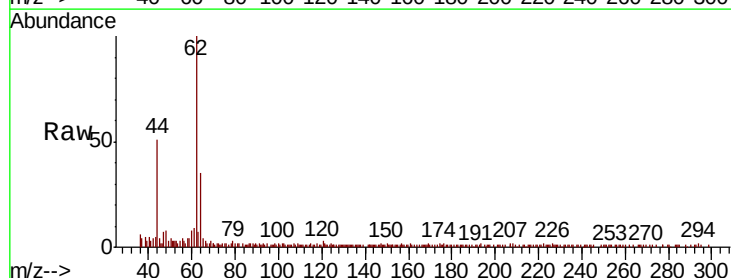
Acq: 29 Nov 2019 16:46

Tgt Ion: 62 Resp: 13455

Ion Ratio Lower Upper

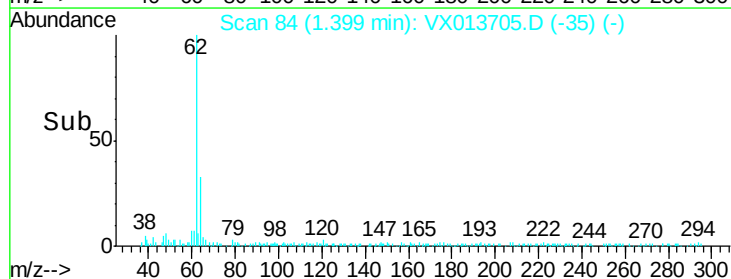
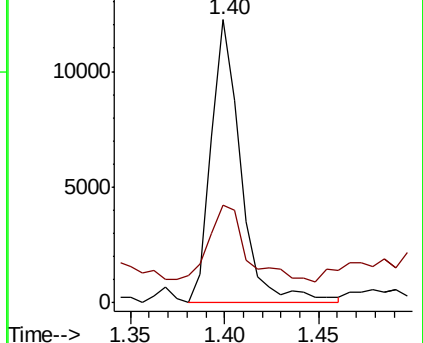
62 100

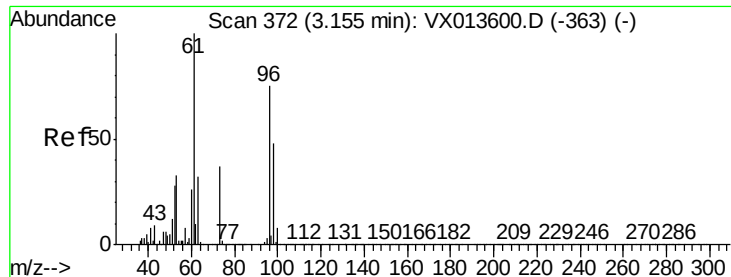
64 25.1 26.0 39.0#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#21

trans-1,2-Dichloroethene

Concen: 1.285 ug/l

RT: 3.16 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX013705.D

Acq: 29 Nov 2019 16:46

Instrument :

MSVOA\_X

ClientSampleId :

S39-0193

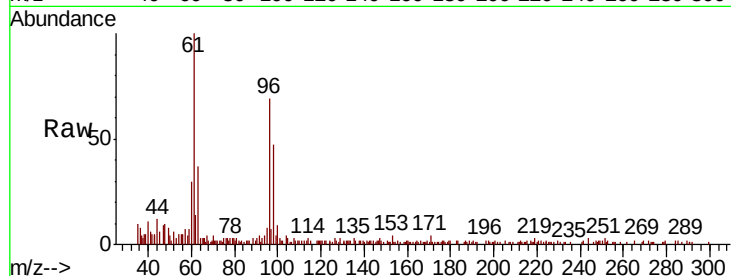
Tot Ion: 96 Resp: 9047

Ion Ratio Lower Upper

96 100

61 138.1 107.2 160.8

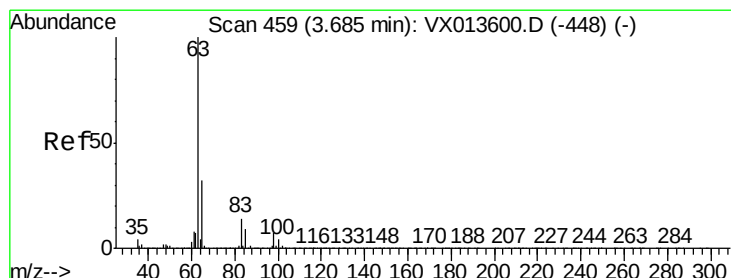
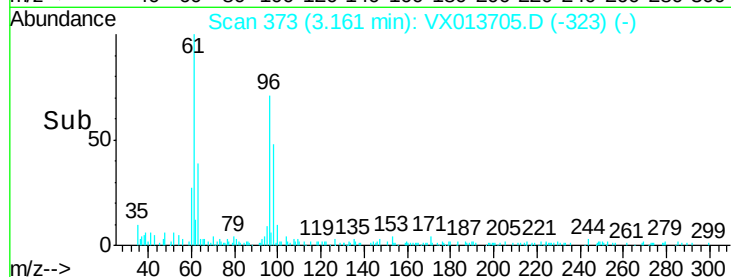
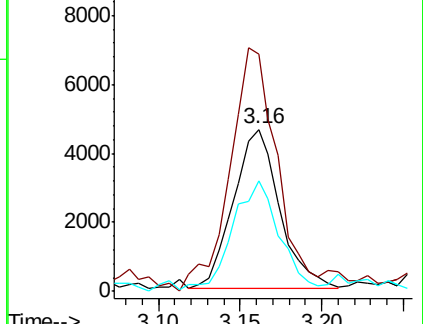
98 65.2 51.4 77.0



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



#24

1,1-Dichloroethane

Concen: 0.395 ug/l

RT: 3.69 min Scan# 459

Delta R.T. 0.00 min

Lab File: VX013705.D

Acq: 29 Nov 2019 16:46

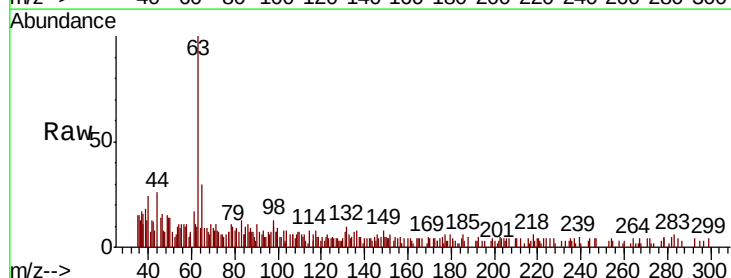
Tgt Ion: 63 Resp: 4878

Ion Ratio Lower Upper

63 100

98 10.8 3.5 10.4#

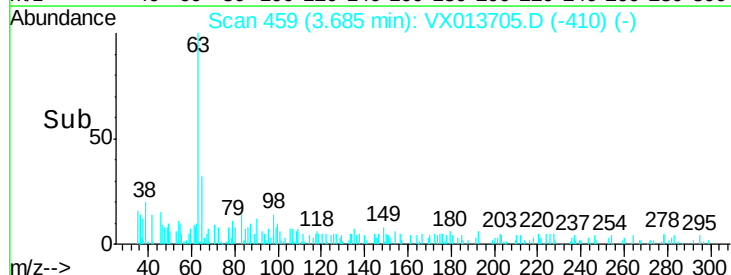
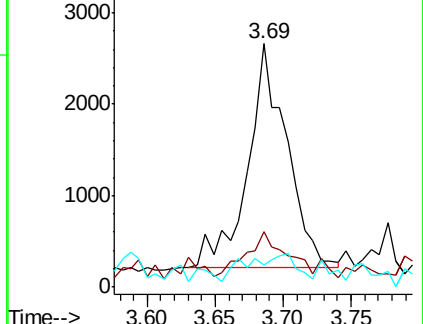
100 8.8 2.1 6.3#

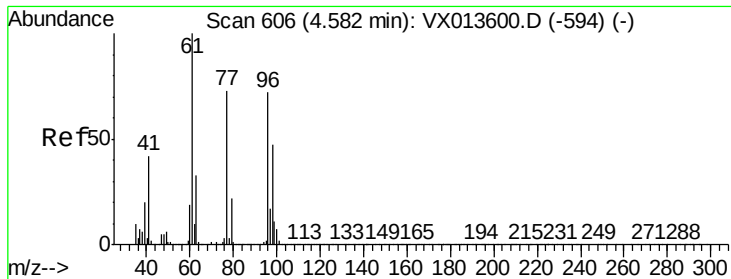


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



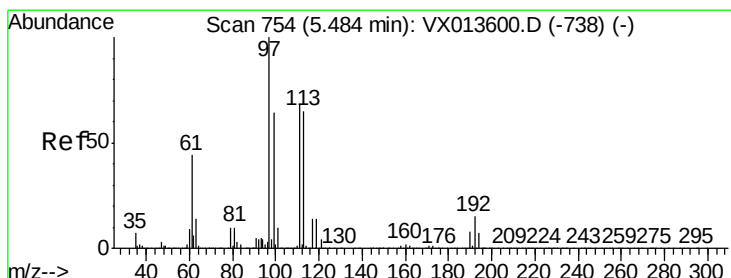
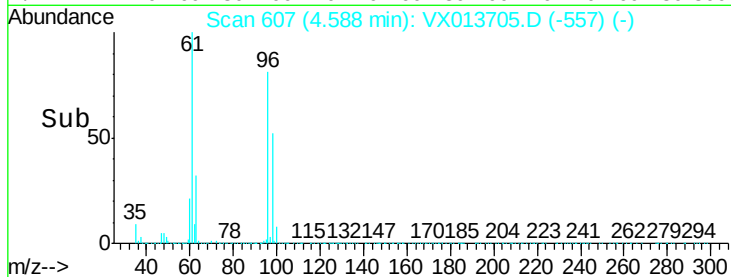
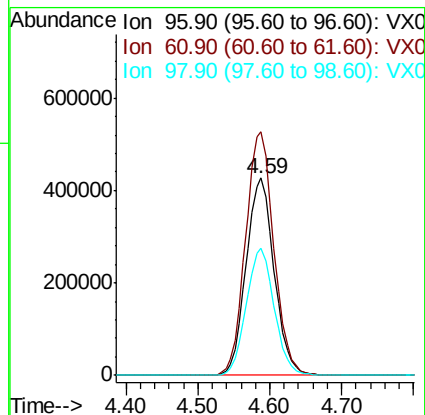
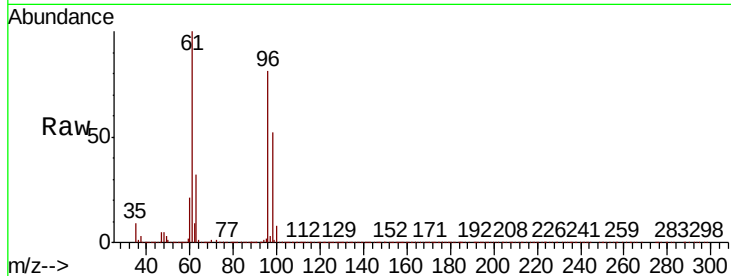


#27

cis-1,2-Dichloroethene  
 Concen: 142.775 ug/l  
 RT: 4.59 min Scan# 607  
 Delta R.T. 0.01 min  
 Lab File: VX013705.D  
 Acq: 29 Nov 2019 16:46

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 S39-0193

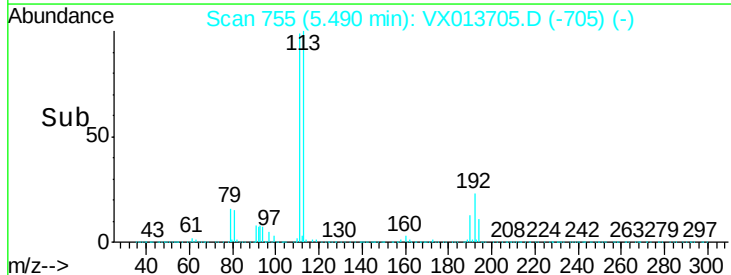
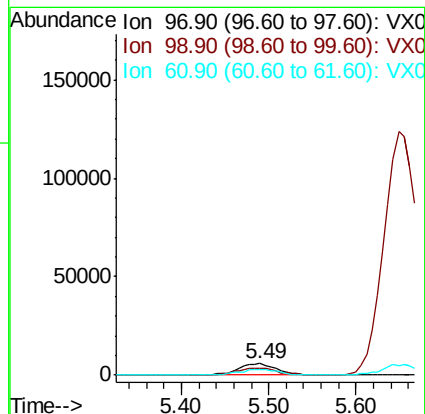
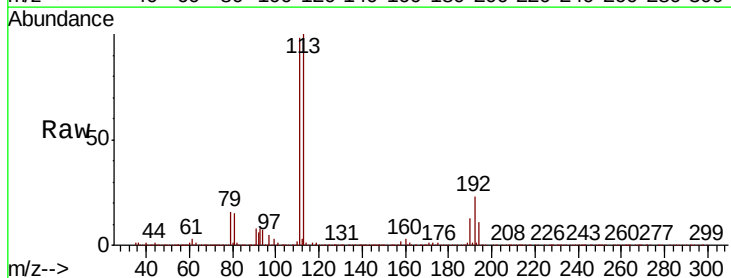
Tot Ion: 96 Resp: 1154309  
 Ion Ratio Lower Upper  
 96 100  
 61 124.4 0.0 286.4  
 98 64.1 0.0 127.4

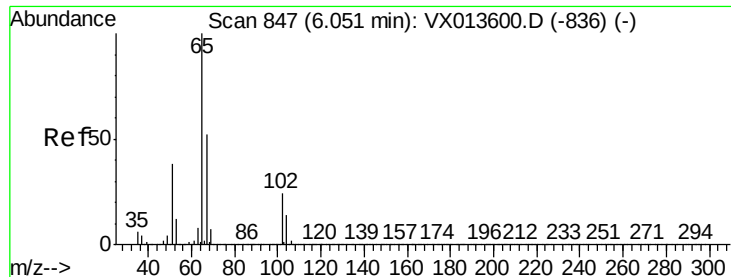


#32

1,1,1-Trichloroethane  
 Concen: 1.717 ug/l  
 RT: 5.49 min Scan# 755  
 Delta R.T. 0.01 min  
 Lab File: VX013705.D  
 Acq: 29 Nov 2019 16:46

Tgt Ion: 97 Resp: 17959  
 Ion Ratio Lower Upper  
 97 100  
 99 62.3 51.6 77.4  
 61 47.1 36.1 54.1





#33

1,2-Dichloroethane-d4

Concen: 47.642 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013705.D

Acq: 29 Nov 2019 16:46

Instrument :

MSVOA\_X

ClientSampleId :

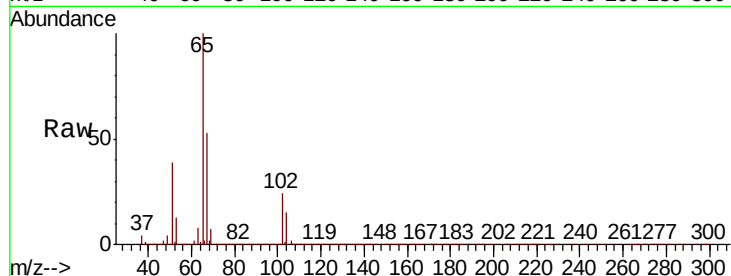
S39-0193

Tot Ion: 65 Resp: 375534

Ion Ratio Lower Upper

65 100

67 52.9 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

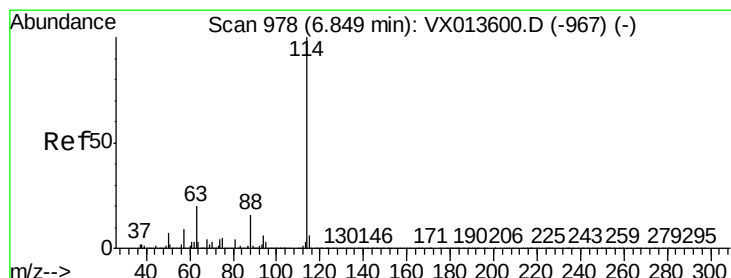
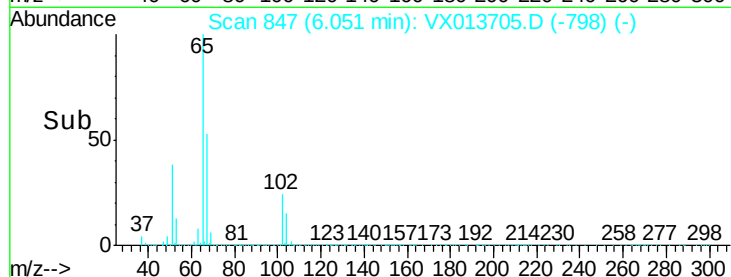
100000

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: VX013705.D

Acq: 29 Nov 2019 16:46

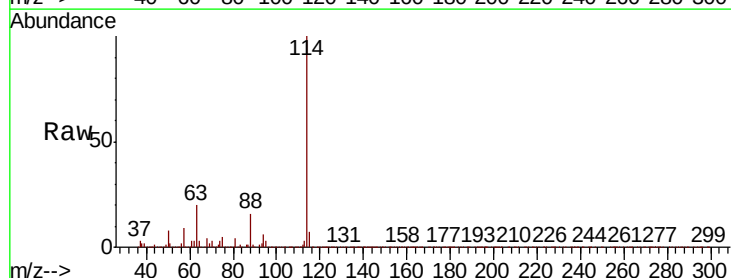
Tgt Ion: 114 Resp: 1039481

Ion Ratio Lower Upper

114 100

63 19.8 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

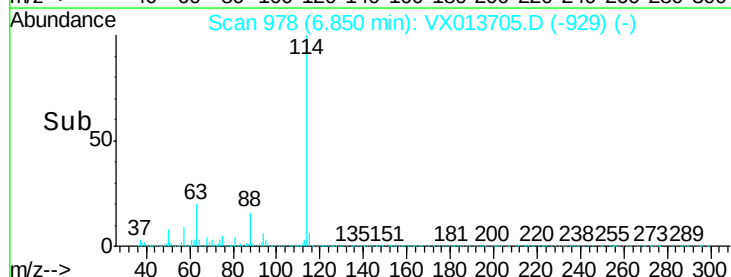
200000

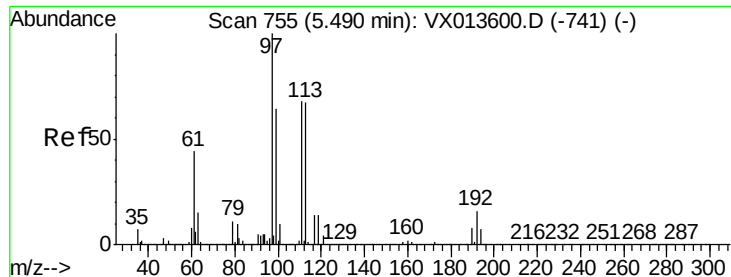
100000

0

Time-->

6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 48.240 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013705.D

Acq: 29 Nov 2019 16:46

Instrument :

MSVOA\_X

ClientSampleId :

S39-0193

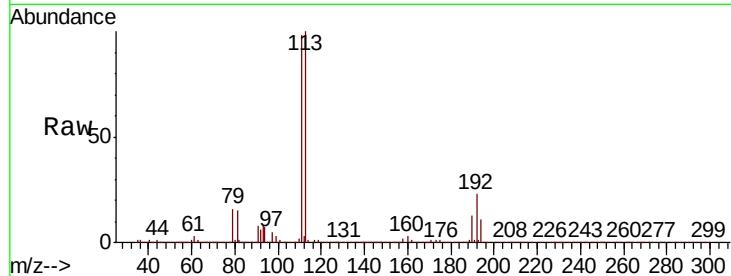
Tot Ion:113 Resp: 309999

Ion Ratio Lower Upper

113 100

111 103.2 83.6 125.4

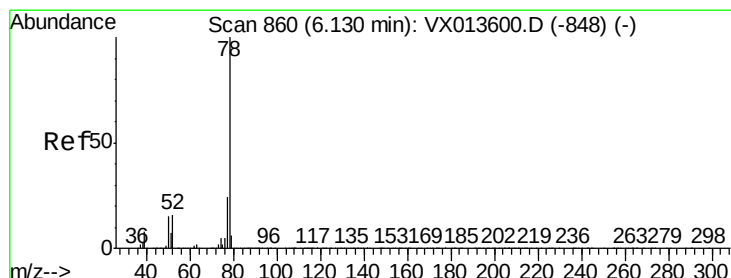
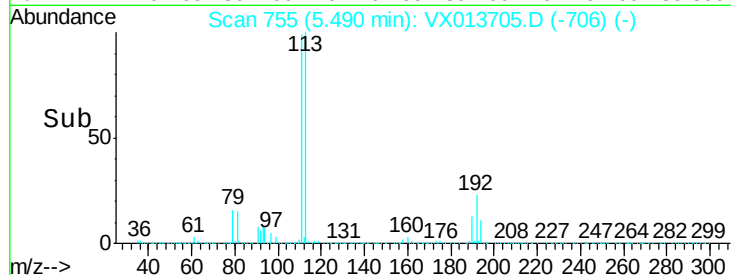
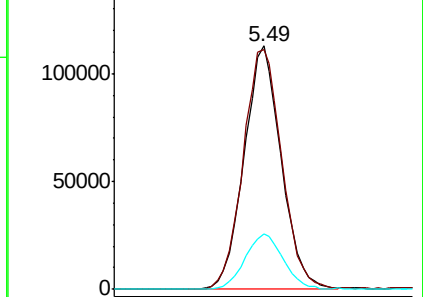
192 23.6 19.2 28.8



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



#40

Benzene

Concen: 0.948 ug/l

RT: 6.13 min Scan# 860

Delta R.T. 0.00 min

Lab File: VX013705.D

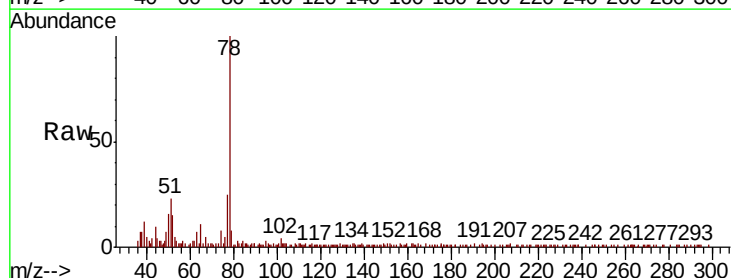
Acq: 29 Nov 2019 16:46

Tgt Ion: 78 Resp: 27244

Ion Ratio Lower Upper

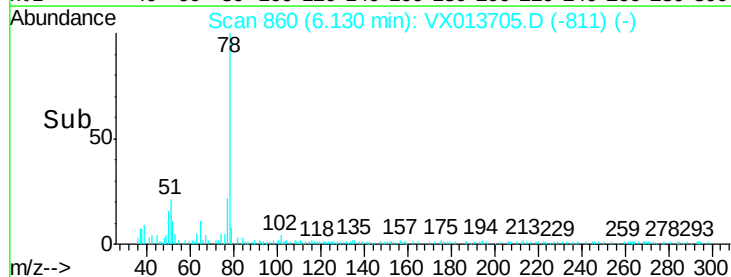
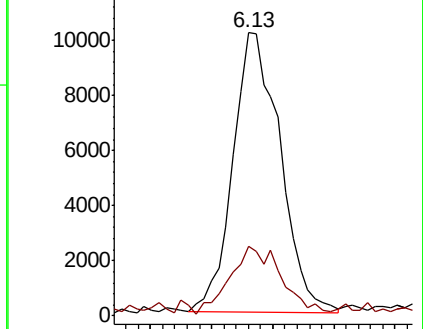
78 100

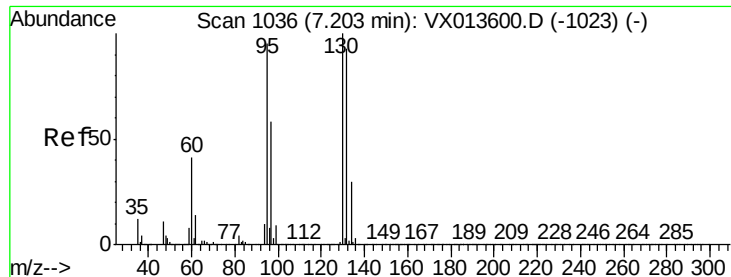
77 22.3 19.0 28.4



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#44

Trichloroethene

Concen: 13.249 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013705.D

Acq: 29 Nov 2019 16:46

Instrument :

MSVOA\_X

ClientSampled :

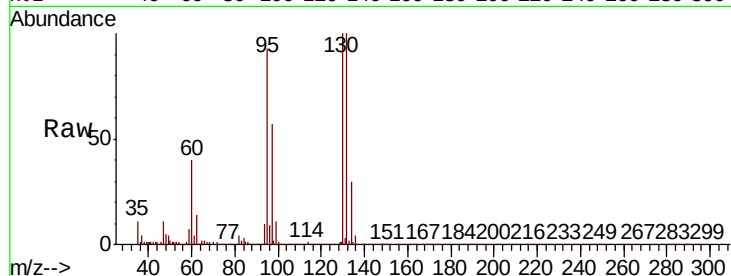
S39-0193

Tot Ion:130 Resp: 104494

Ion Ratio Lower Upper

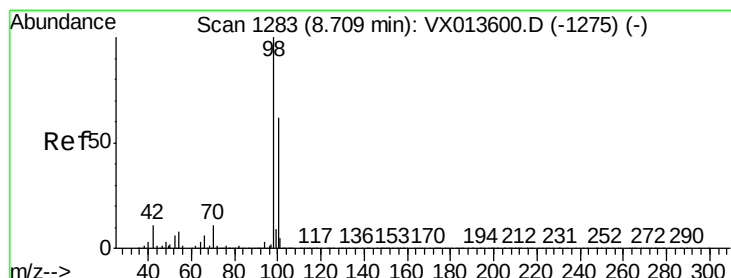
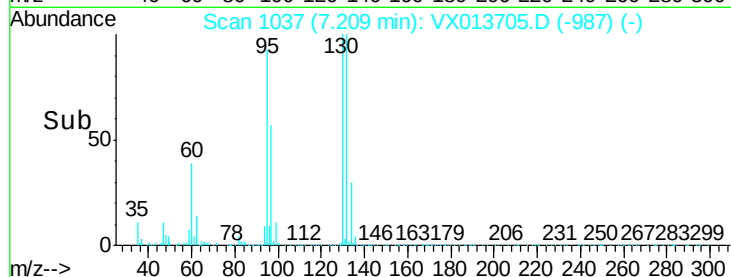
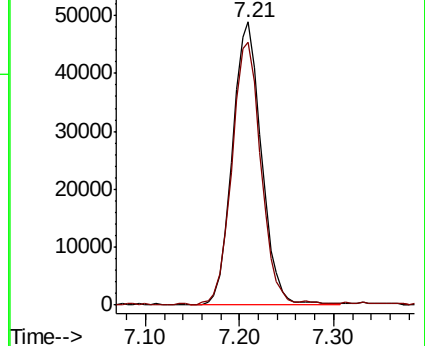
130 100

95 92.7 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 49.261 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013705.D

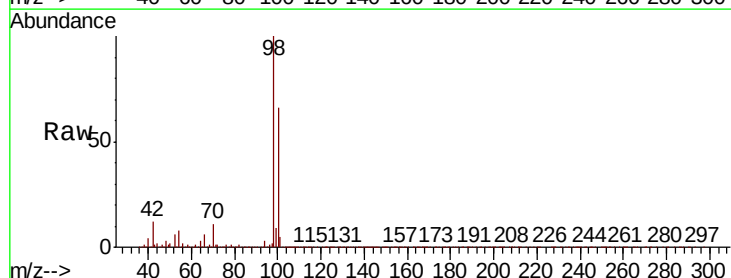
Acq: 29 Nov 2019 16:46

Tgt Ion: 98 Resp: 1233363

Ion Ratio Lower Upper

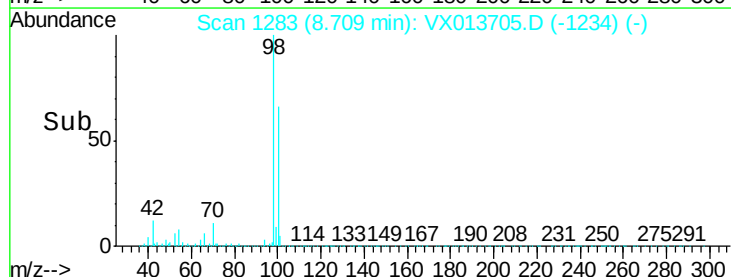
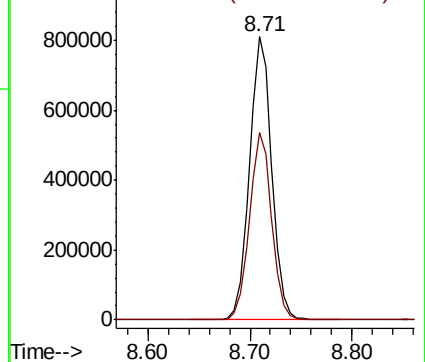
98 100

100 65.8 53.1 79.7

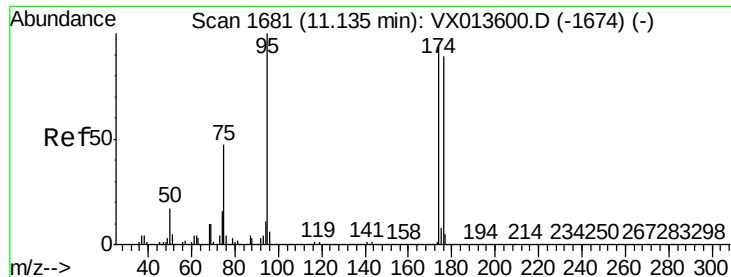


Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V







#62

4-Bromofluorobenzene

Concen: 45.714 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX013705.D

Acq: 29 Nov 2019 16:46

Instrument :

MSVOA\_X

ClientSampleId :

S39-0193

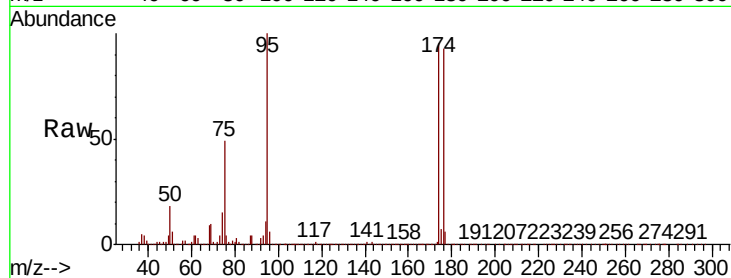
Tot Ion: 95 Resp: 412729

Ion Ratio Lower Upper

95 100

174 91.1 0.0 180.0

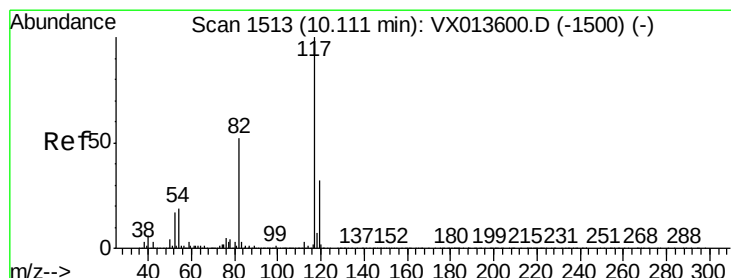
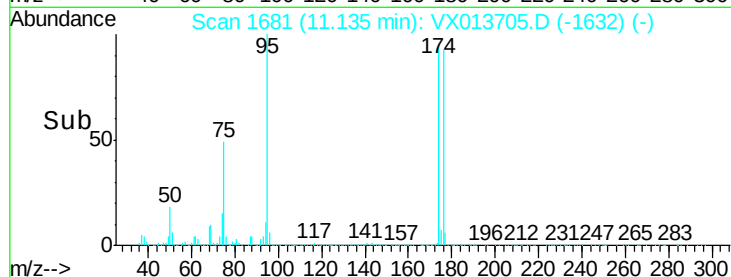
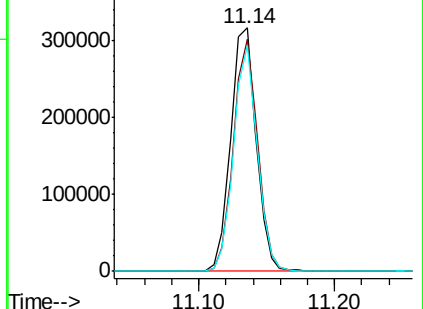
176 86.8 0.0 173.6



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

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

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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX013705.D

Acq: 29 Nov 2019 16:46

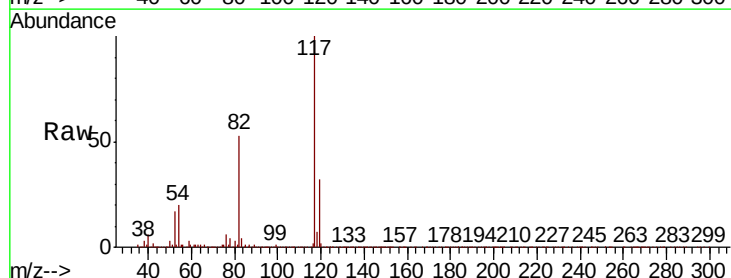
Tgt Ion: 117 Resp: 924406

Ion Ratio Lower Upper

117 100

82 52.6 41.8 62.8

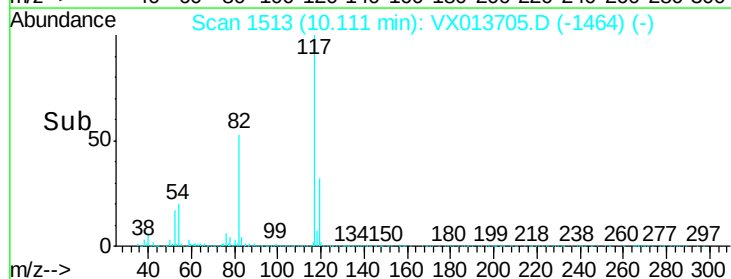
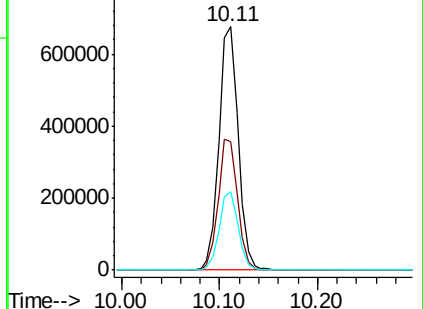
119 32.1 25.8 38.8

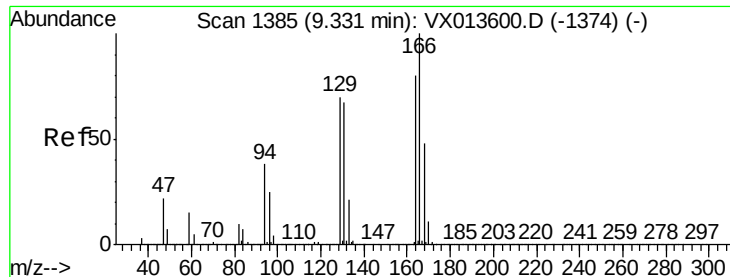


Abundance Ion 116.90 (116.60 to 117.60): VX013600.D (-1500) (-)

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

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





#64

Tetrachloroethene

Concen: 121.297 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX013705.D

Acq: 29 Nov 2019 16:46

Instrument :

MSVOA\_X

ClientSampleId :

S39-0193

Tot Ion:164 Resp: 836182

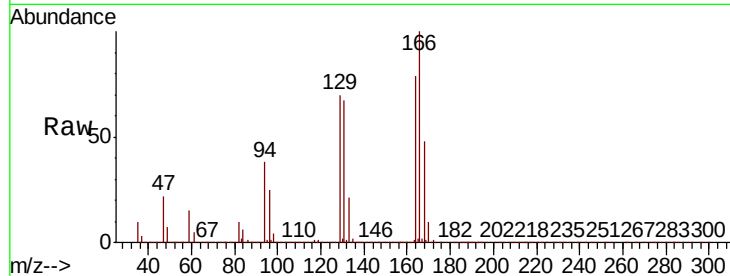
Ion Ratio Lower Upper

164 100

166 127.0 99.7 149.5

129 88.4 70.1 105.1

131 85.0 66.9 100.3

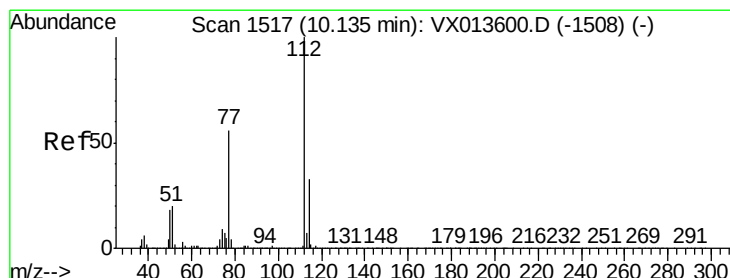
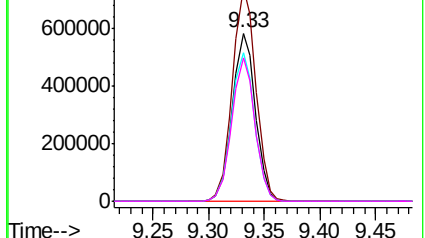
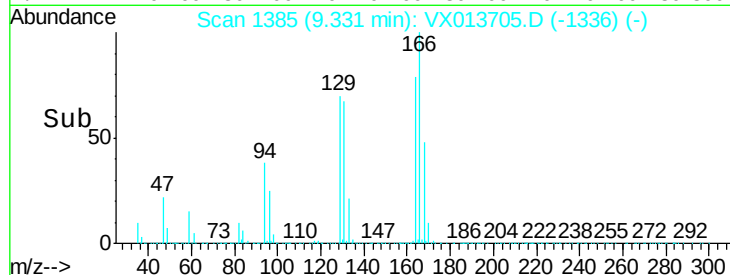


Abundance Ion 163.80 (163.50 to 164.50): V

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



#65

Chlorobenzene

Concen: 0.451 ug/l

RT: 10.14 min Scan# 1517

Delta R.T. 0.00 min

Lab File: VX013705.D

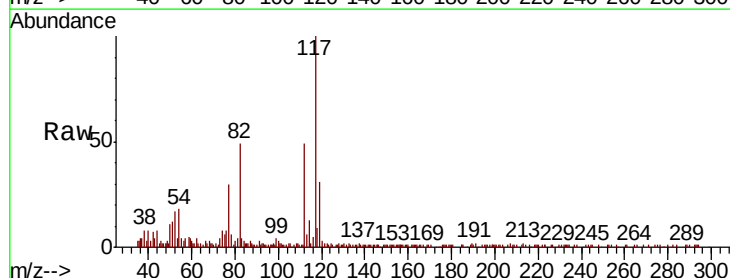
Acq: 29 Nov 2019 16:46

Tgt Ion:112 Resp: 8650

Ion Ratio Lower Upper

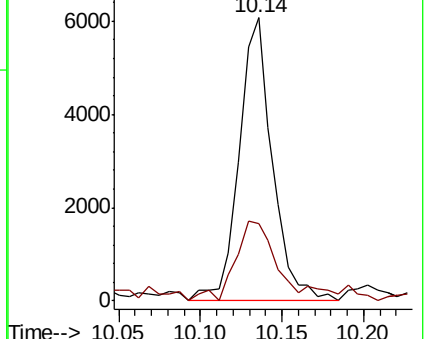
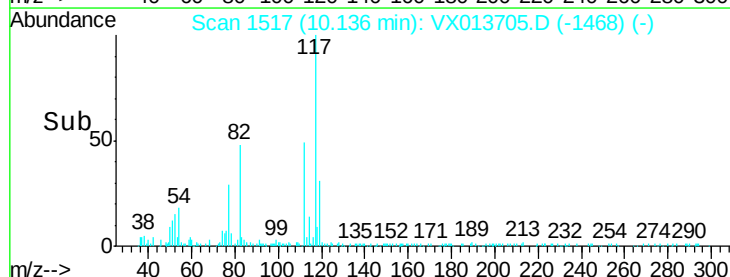
112 100

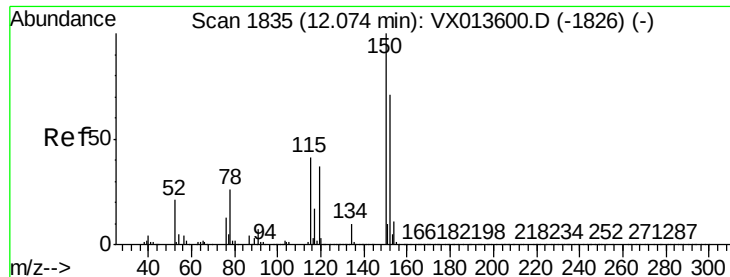
114 27.2 26.1 39.1



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): 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: VX013705.D

Acq: 29 Nov 2019 16:46

Instrument :

MSVOA\_X

ClientSampled :

S39-0193

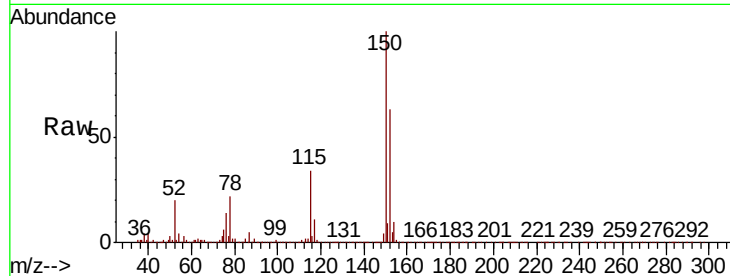
Tot Ion:152 Resp: 415705

Ion Ratio Lower Upper

152 100

115 54.6 38.4 115.1

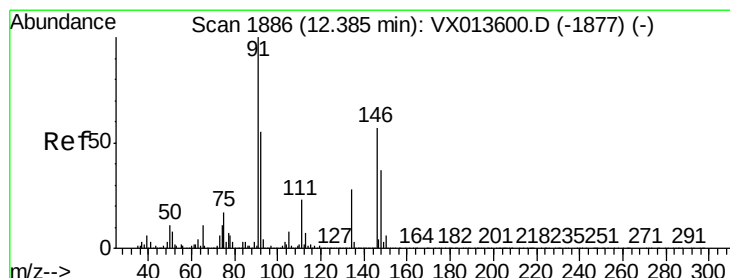
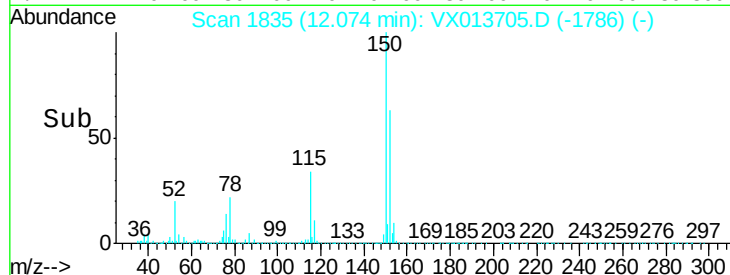
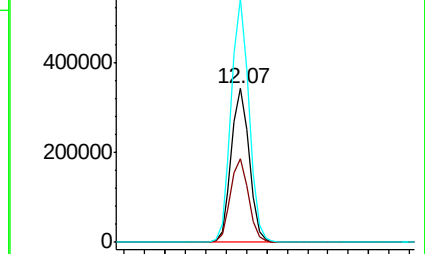
150 156.8 0.0 346.8



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



#91

1,2-Dichlorobenzene

Concen: 0.221 ug/l

RT: 12.39 min Scan# 1887

Delta R.T. 0.01 min

Lab File: VX013705.D

Acq: 29 Nov 2019 16:46

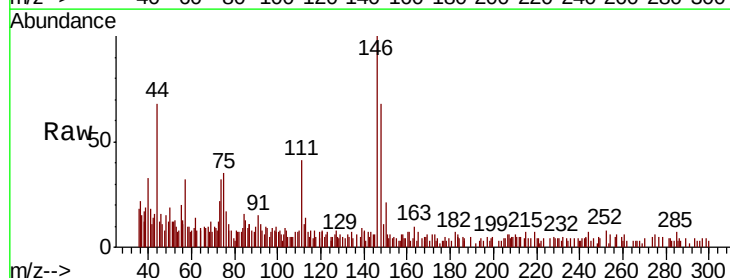
Tgt Ion:146 Resp: 2998

Ion Ratio Lower Upper

146 100

111 51.1 19.6 58.7

148 83.3 31.9 95.7



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

