

Data File : VV011113.D  
Acq On : 29 May 2019 18:08  
Operator : SY/MD  
Sample : K3017-18MS  
Misc : 4.25G/10ML/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
A51F0MS

Quant Time: May 30 03:56:54 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM052819S.M  
Quant Title : VOC Analysis  
QLast Update : Thu May 30 03:51:47 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 344093   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 293598   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 96760    | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 111929   | 23.73    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 94.92%   |
| 7) Chloroethane-d5             | 1.56   | 69    | 86447    | 25.67    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 102.68%  |
| 10) 1,1-Dichloroethene-d2      | 2.12   | 63    | 228607   | 26.05    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 104.20%  |
| 20) 2-Butanone-d5              | 3.94   | 46    | 109205   | 67.16    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 134.32%  |
| 24) Chloroform-d               | 4.40   | 84    | 212220   | 25.43    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 101.72%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 140891   | 26.41    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 105.64%  |
| 29) Benzene-d6                 | 5.09   | 84    | 433953   | 25.24    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 100.96%  |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 145498   | 26.60    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 106.40%  |
| 37) Toluene-d8                 | 7.36   | 98    | 390416   | 24.64    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 98.56%   |
| 38) trans-1,3-Dichloropropene- | 7.66   | 79    | 64406    | 25.28    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 101.12%  |
| 39) 2-Hexanone-d5              | 8.13   | 63    | 91279    | 76.61    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 153.22%# |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 126664   | 26.93    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 107.72%  |
| 61) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 84844    | 22.17    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 88.68%   |

#### Target Compounds

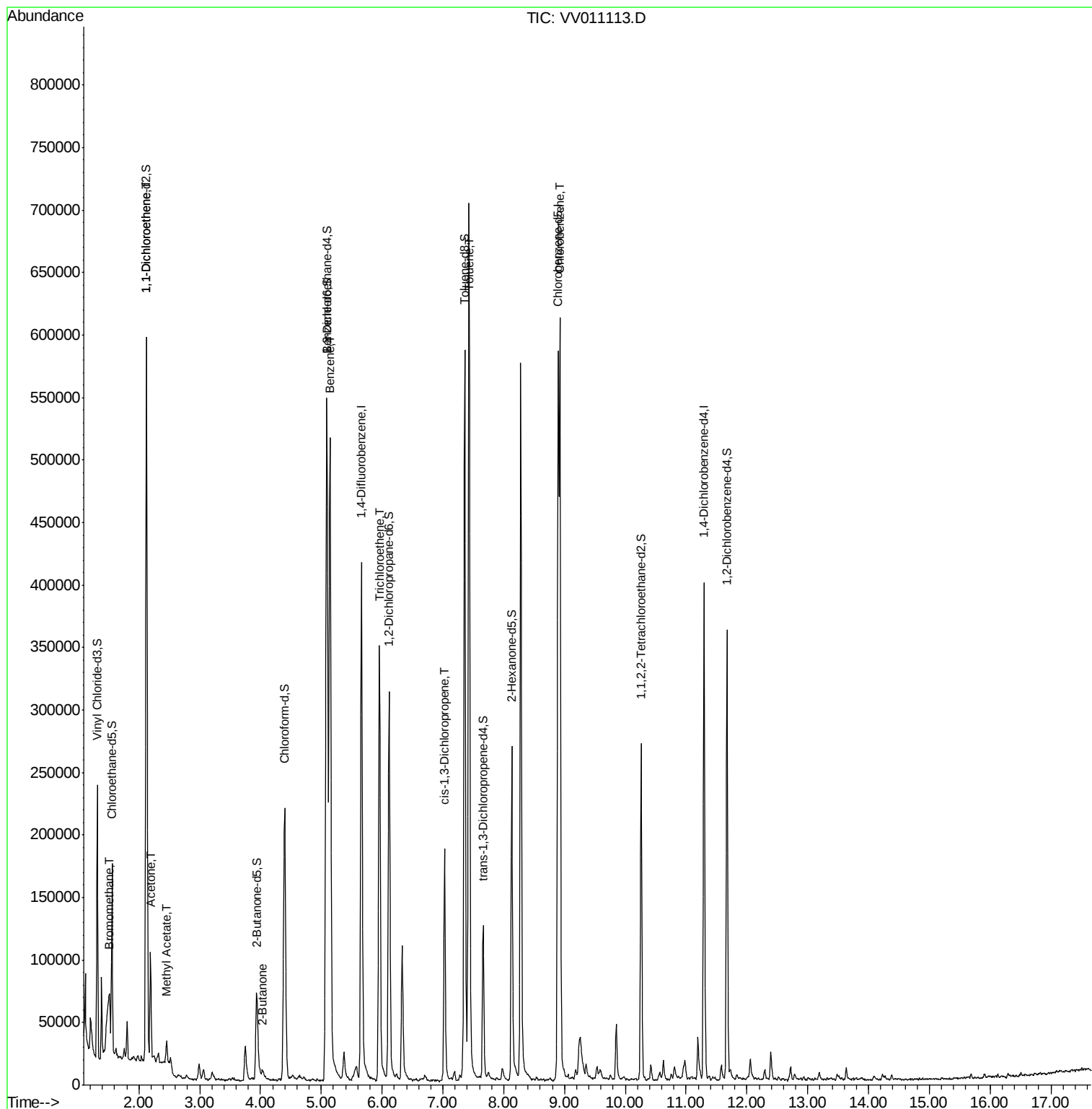
|                             |      |     |        |              | Qvalue |
|-----------------------------|------|-----|--------|--------------|--------|
| 6) Bromomethane             | 1.51 | 94  | 1766   | 0.802 ug/L   | 78     |
| 12) 1,1-Dichloroethene      | 2.13 | 96  | 98814  | 28.604 ug/L  | 93     |
| 13) Acetone                 | 2.19 | 43  | 82688  | 44.891 ug/L  | 98     |
| 15) Methyl Acetate          | 2.46 | 43  | 17439  | 6.559 ug/L # | 100    |
| 21) 2-Butanone              | 4.04 | 43  | 10199  | 4.496 ug/L   | 84     |
| 34) Benzene                 | 5.14 | 78  | 486846 | 27.422 ug/L  | 100    |
| 35) Trichloroethene         | 5.96 | 95  | 117411 | 25.321 ug/L  | 99     |
| 42) cis-1,3-Dichloropropene | 7.03 | 75  | 5106   | 0.675 ug/L # | 74     |
| 44) Toluene                 | 7.43 | 91  | 505688 | 26.197 ug/L  | 98     |
| 52) Chlorobenzene           | 8.92 | 112 | 290074 | 24.248 ug/L  | 99     |

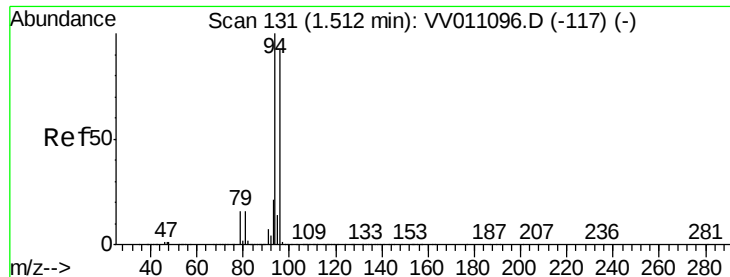
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#6

Bromomethane

Concen: 0.802 ug/L

RT: 1.51 min Scan# 131

Delta R.T. 0.00 min

Lab File: VV011113.D

Acq: 29 May 2019 18:08

Instrument :

MSVOA\_V

ClientSampled :

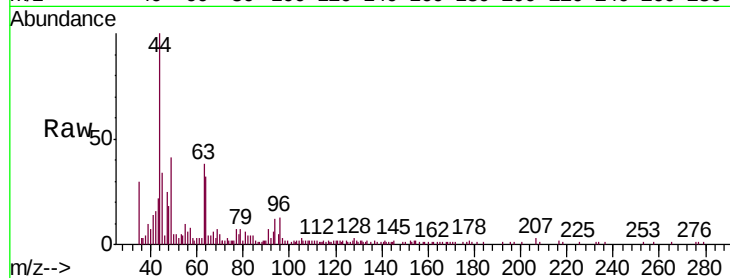
A51F0MS

Tgt Ion: 94 Resp: 1766

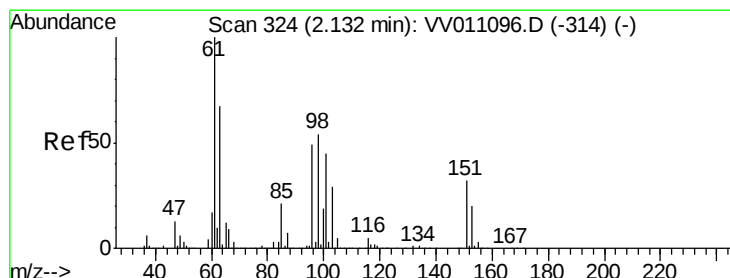
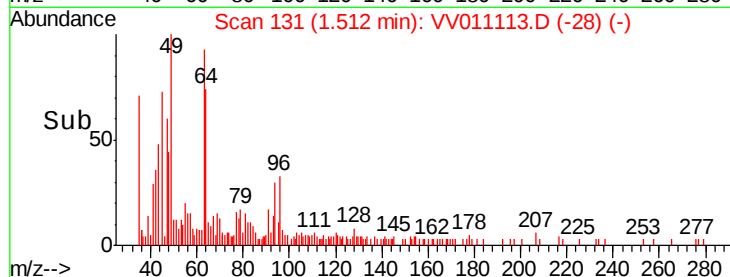
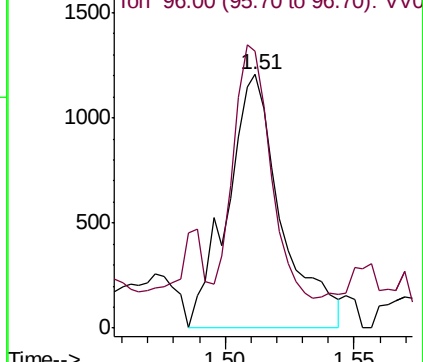
Ion Ratio Lower Upper

94 100

96 73.2 9.5 179.7



Abundance Ion 94.00 (93.70 to 94.70): VV011113.D (-28) (-)



#12

1,1-Dichloroethene

Concen: 28.604 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV011113.D

Acq: 29 May 2019 18:08

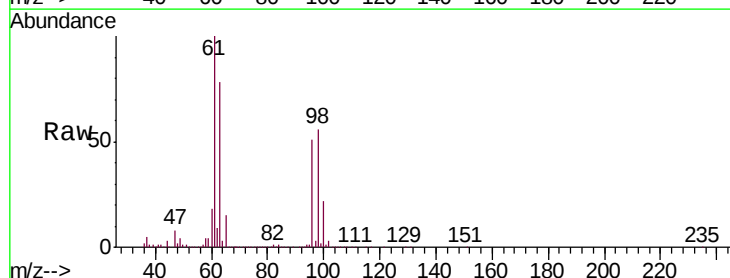
Tgt Ion: 96 Resp: 98814

Ion Ratio Lower Upper

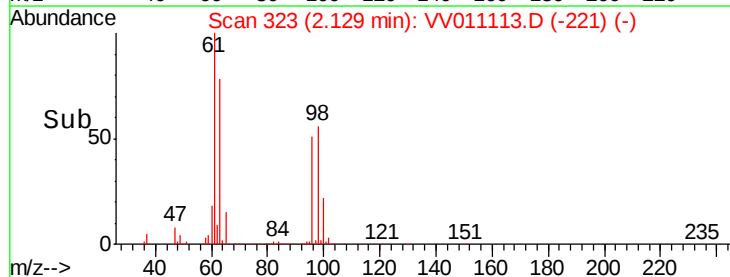
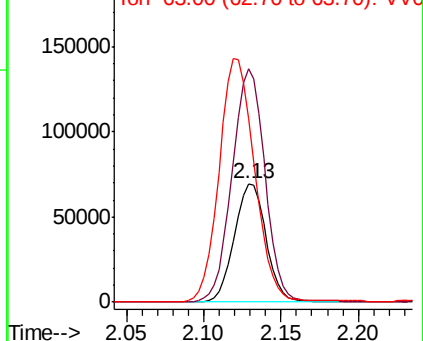
96 100

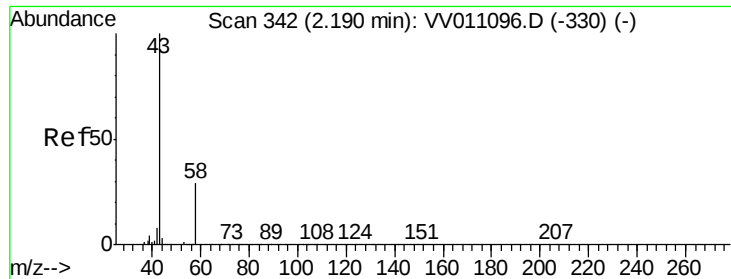
61 197.1 134.1 249.1

63 154.5 98.1 182.3



Abundance Ion 96.00 (95.70 to 96.70): VV011113.D (-221) (-)





#13

Acetone

Concen: 44.891 ug/L

RT: 2.19 min Scan# 342

Delta R.T. 0.00 min

Lab File: VV011113.D

Acq: 29 May 2019 18:08

Instrument :

MSVOA\_V

ClientSampleId :

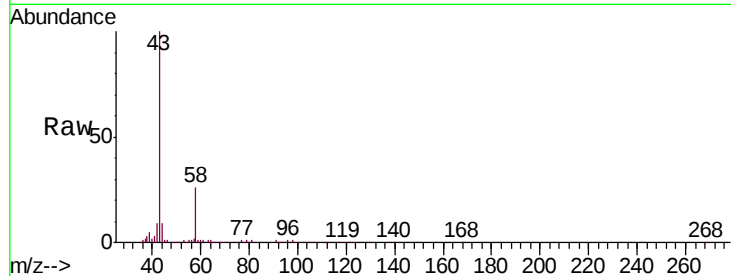
A51F0MS

Tgt Ion: 43 Resp: 82688

Ion Ratio Lower Upper

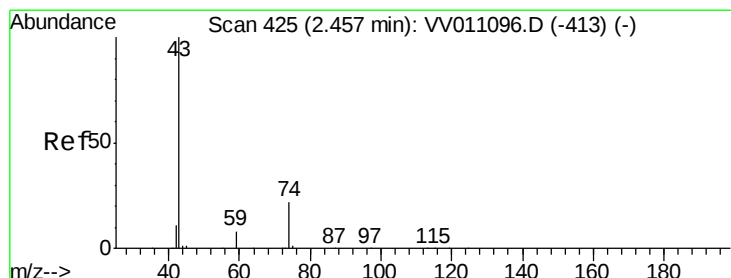
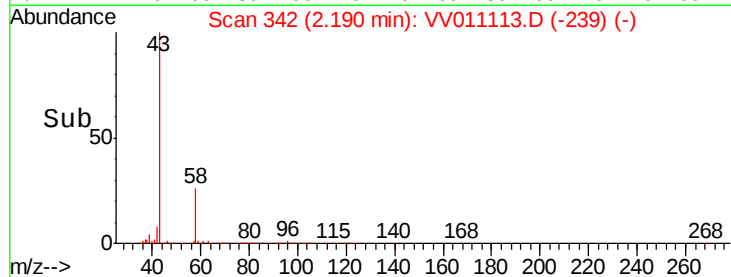
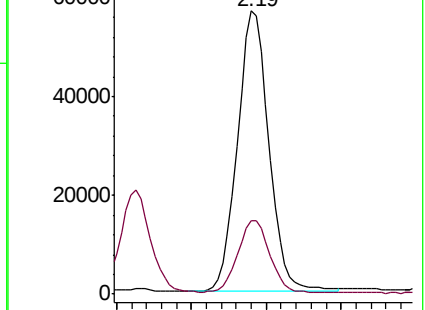
43 100

58 26.4 0.0 54.8



Abundance Ion 43.00 (42.70 to 43.70): VV011096.D (-330) (-)

Ion 58.00 (57.70 to 58.70): VV011096.D (-330) (-)



#15

Methyl Acetate

Concen: 6.559 ug/L

RT: 2.46 min Scan# 425

Delta R.T. 0.00 min

Lab File: VV011113.D

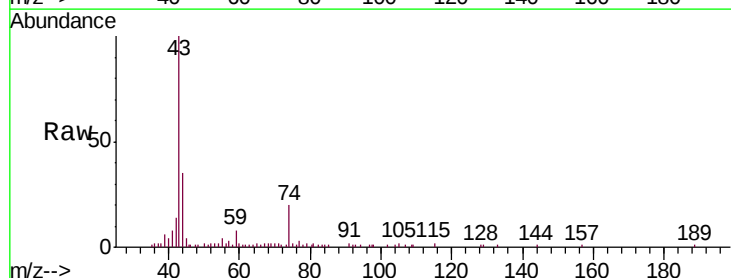
Acq: 29 May 2019 18:08

Tgt Ion: 43 Resp: 17439

Ion Ratio Lower Upper

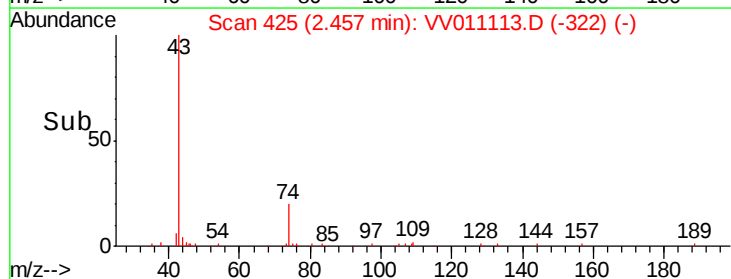
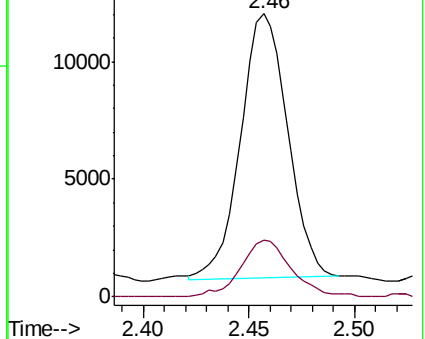
43 100

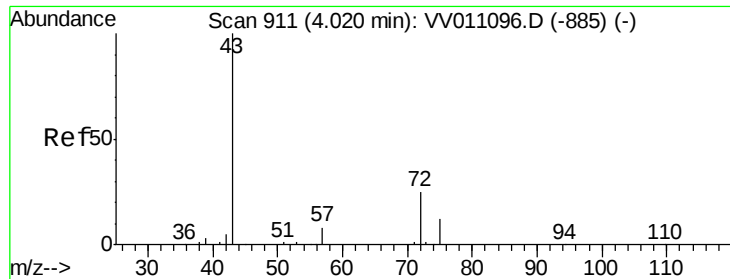
74 20.4 0.0 0.0#



Abundance Ion 43.00 (42.70 to 43.70): VV011096.D (-413) (-)

Ion 74.00 (73.70 to 74.70): VV011096.D (-413) (-)

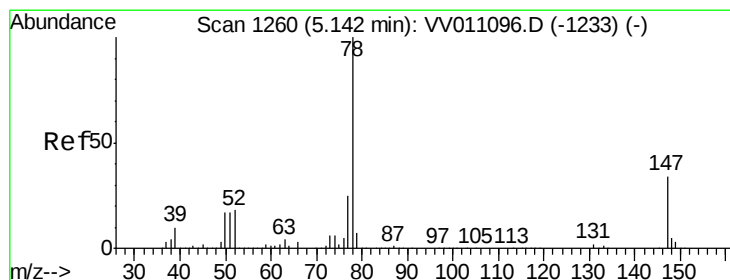
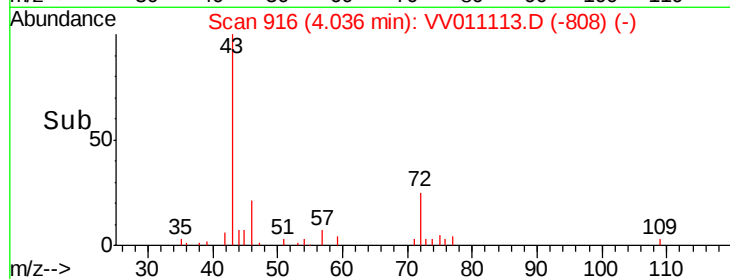
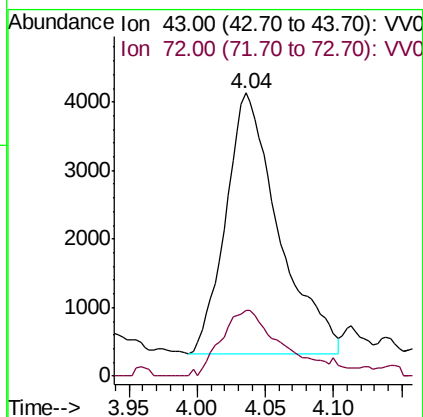
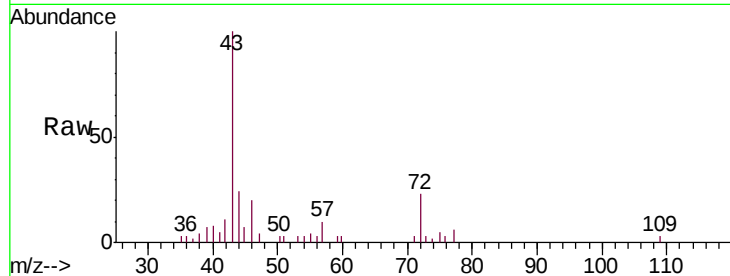




#21  
 2-Butanone  
 Concen: 4.496 ug/L  
 RT: 4.04 min Scan# 916  
 Delta R.T. 0.02 min  
 Lab File: VV011113.D  
 Acq: 29 May 2019 18:08

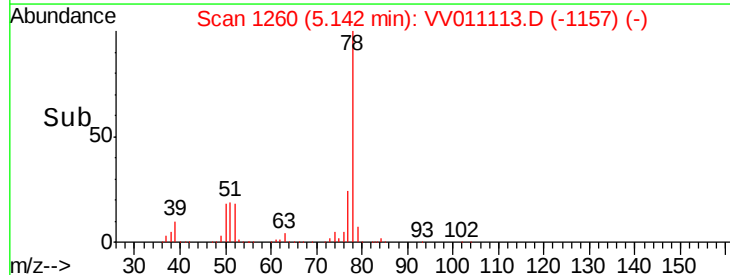
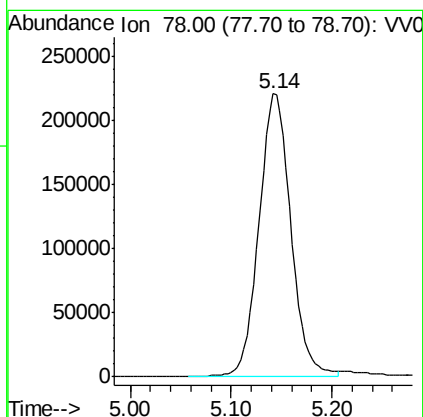
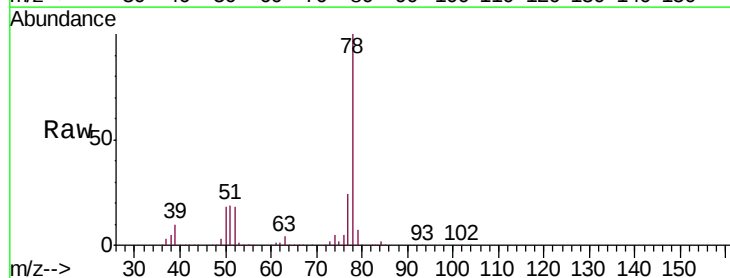
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 A51F0MS

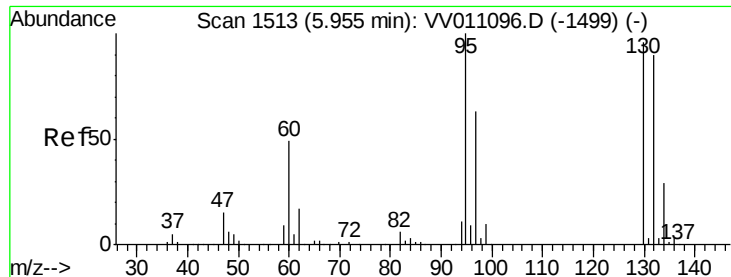
Tgt Ion: 43 Resp: 10199  
 Ion Ratio Lower Upper  
 43 100  
 72 28.7 10.7 31.9



#34  
 Benzene  
 Concen: 27.422 ug/L  
 RT: 5.14 min Scan# 1260  
 Delta R.T. 0.00 min  
 Lab File: VV011113.D  
 Acq: 29 May 2019 18:08

Tgt Ion: 78 Resp: 486846





#35

Trichloroethene

Concen: 25.321 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV011113.D

Acq: 29 May 2019 18:08

Instrument :

MSVOA\_V

ClientSampleId :

A51F0MS

Tgt Ion: 95 Resp: 117411

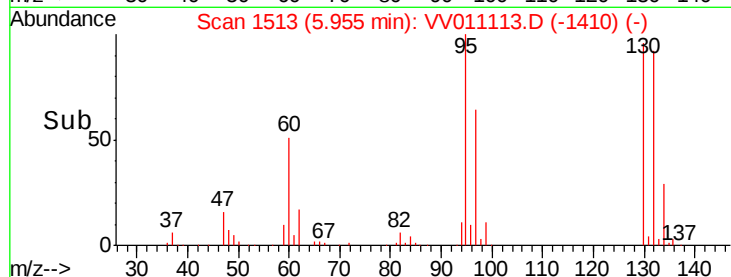
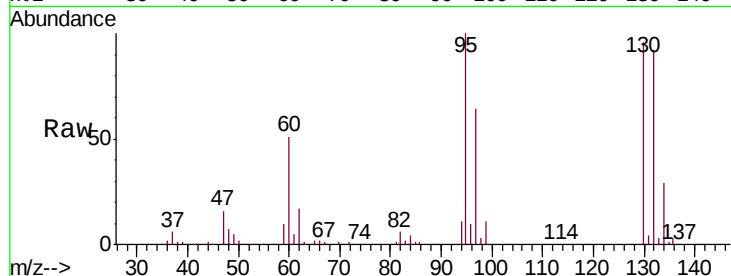
Ion Ratio Lower Upper

95 100

97 65.8 45.4 84.4

132 93.3 66.1 122.8

130 99.6 68.9 127.9

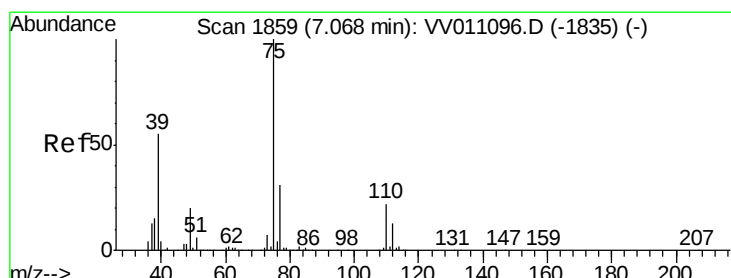
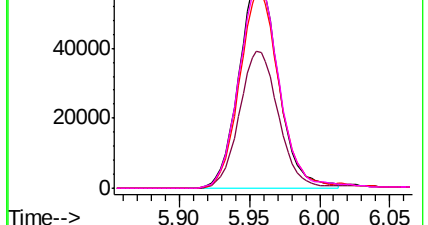


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#42

cis-1,3-Dichloropropene

Concen: 0.675 ug/L

RT: 7.03 min Scan# 1847

Delta R.T. -0.04 min

Lab File: VV011113.D

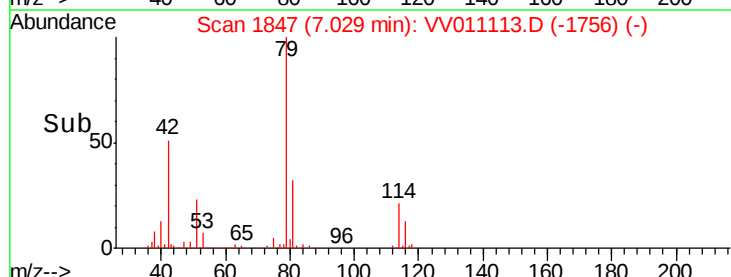
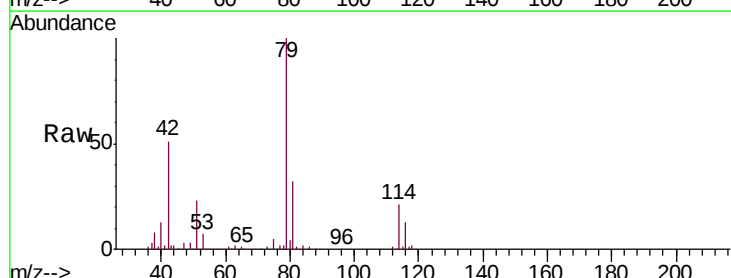
Acq: 29 May 2019 18:08

Tgt Ion: 75 Resp: 5106

Ion Ratio Lower Upper

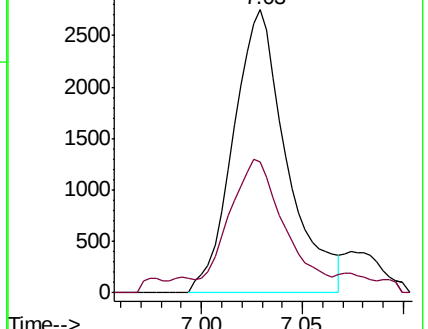
75 100

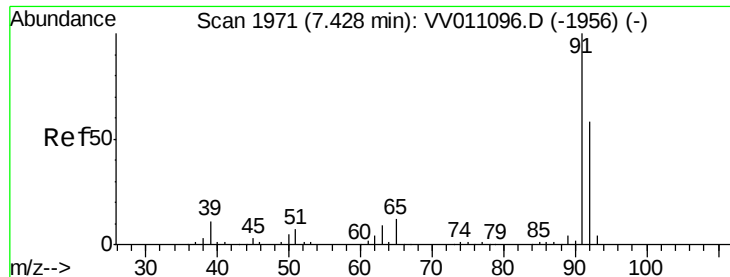
77 46.4 22.5 41.7#



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0





#44

Toluene

Concen: 26.197 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV011113.D

Acq: 29 May 2019 18:08

Instrument :

MSVOA\_V

ClientSampleId :

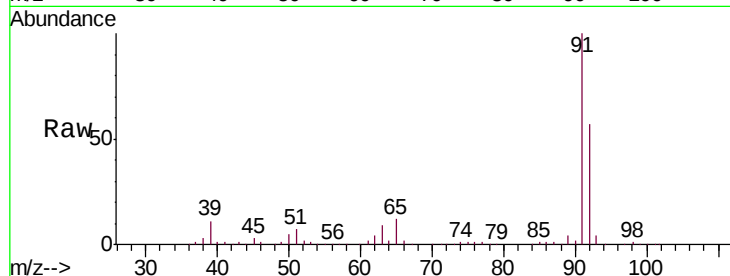
A51F0MS

Tgt Ion: 91 Resp: 505688

Ion Ratio Lower Upper

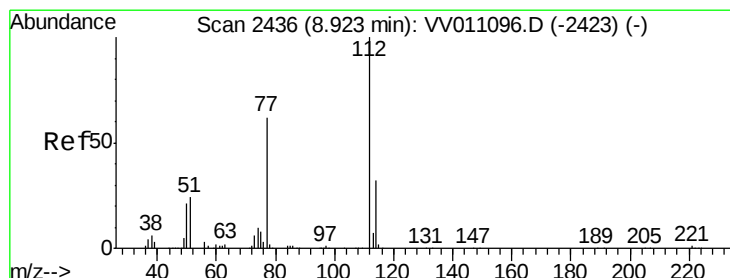
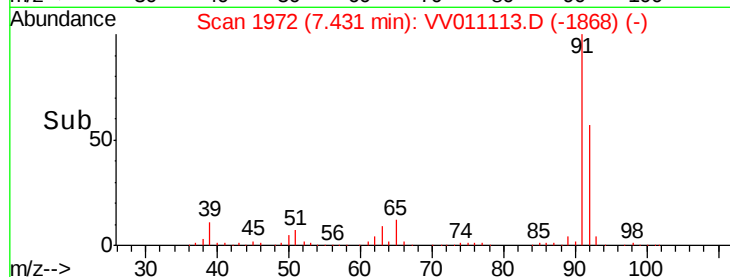
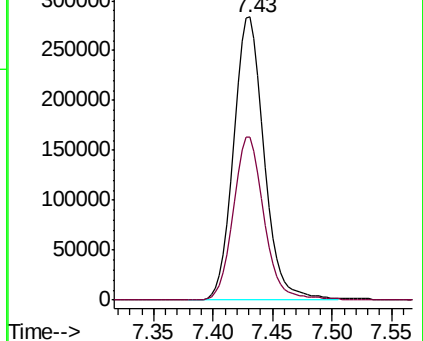
91 100

92 57.4 41.0 76.2



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0



#52

Chlorobenzene

Concen: 24.248 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VV011113.D

Acq: 29 May 2019 18:08

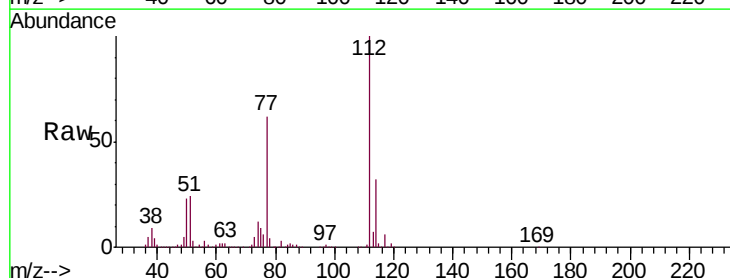
Tgt Ion: 112 Resp: 290074

Ion Ratio Lower Upper

112 100

77 62.2 50.8 76.2

114 31.8 22.7 42.1



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V

