

Data File : VU031536.D  
Acq On : 26 Apr 2019 16:29  
Operator : JC/SP  
Sample : K2586-19 50X  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0X65

Quant Time: Apr 27 00:24:39 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Apr 27 00:11:31 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 860237   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 810809   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 351730   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 377939   | 52.49    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 104.98% |
| 7) Chloroethane-d5             | 1.68    | 69    | 297244   | 53.43    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 106.86% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 541646   | 37.78    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 75.56%  |
| 21) 2-Butanone-d5              | 4.19    | 46    | 679341   | 104.14   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 104.14% |
| 24) Chloroform-d               | 4.64    | 84    | 610625   | 46.31    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.62%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 402096   | 46.68    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.36%  |
| 32) Benzene-d6                 | 5.34    | 84    | 1296201  | 52.06    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 104.12% |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 441827   | 50.44    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 100.88% |
| 41) Toluene-d8                 | 7.56    | 98    | 1137320  | 52.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 104.90% |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 193165   | 51.37    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 102.74% |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 452256   | 119.28   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 119.28% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 567461   | 48.27    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 96.54%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.85   | 152   | 388564   | 52.53    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 105.06% |

#### Target Compounds

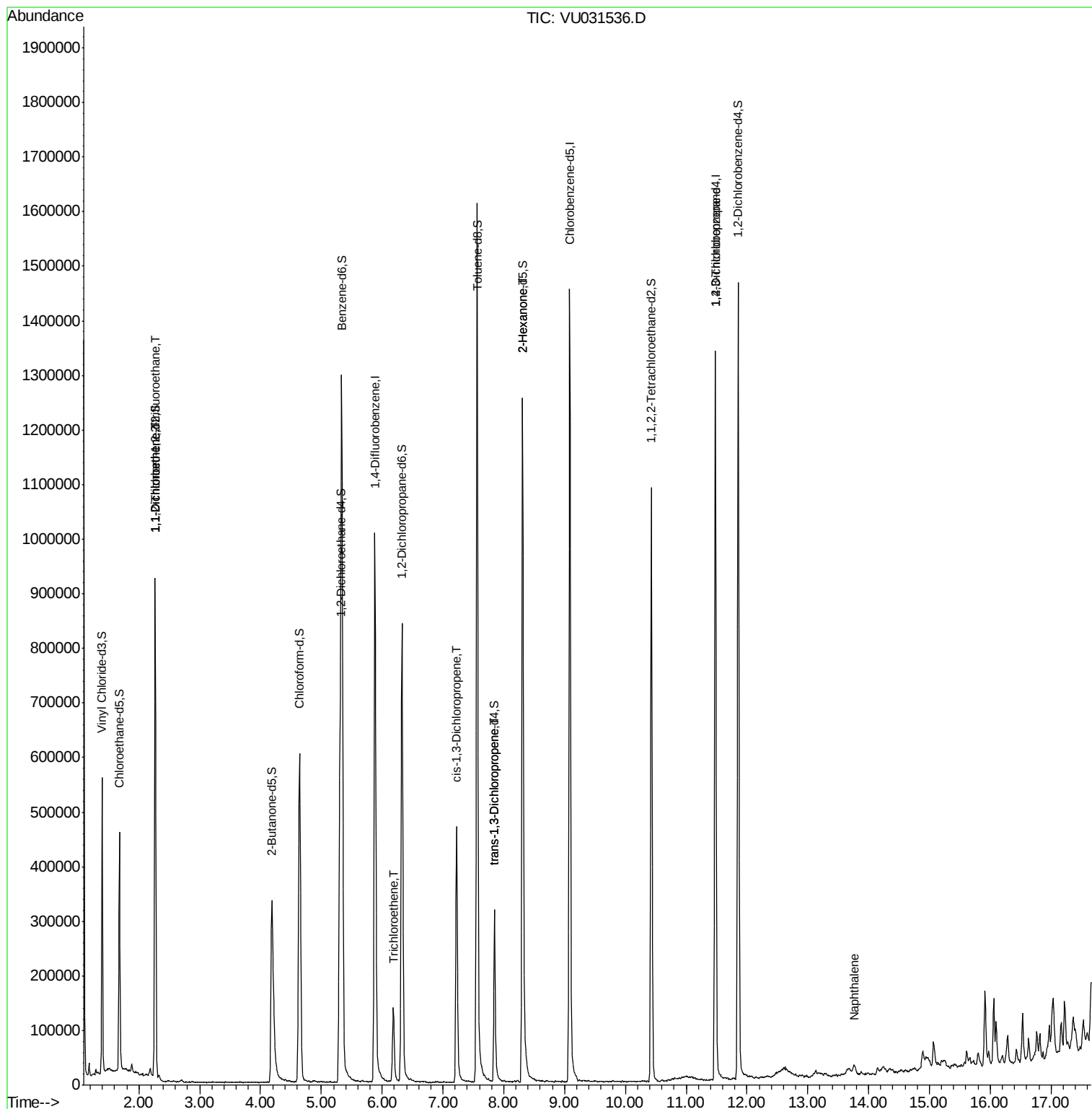
|                                |       |     |       |       |        | Qvalue |
|--------------------------------|-------|-----|-------|-------|--------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27  | 101 | 4899  | 0.710 | ug/L # | 22     |
| 12) 1,1-Dichloroethene         | 2.27  | 96  | 3724  | 0.555 | ug/L # | 1      |
| 34) Trichloroethene            | 6.19  | 95  | 47005 | 6.505 | ug/L   | 98     |
| 39) cis-1,3-Dichloropropene    | 7.22  | 75  | 9917  | 0.887 | ug/L # | 41     |
| 44) trans-1,3-Dichloropropene  | 7.85  | 75  | 7155  | 0.705 | ug/L   | 87     |
| 48) 2-Hexanone                 | 8.31  | 43  | 50434 | 4.789 | ug/L # | 77     |
| 59) 1,2,3-Trichloropropane     | 11.48 | 75  | 44782 | 4.463 | ug/L   | 90     |
| 69) Naphthalene                | 13.76 | 128 | 17865 | 0.759 | ug/L # | 79     |

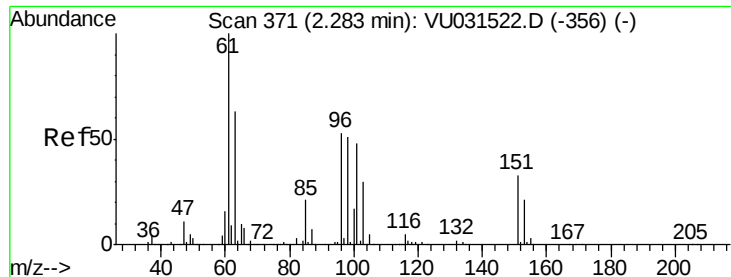
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Apr 27 00:11:31 2019  
Response via : Initial Calibration





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.710 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.01 min

Lab File: VU031536.D

Acq: 26 Apr 2019 16:29

Instrument :

MSVOA\_U

ClientSampleId :

C0X65

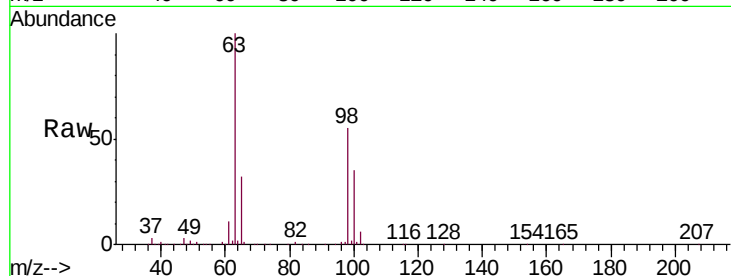
Tgt Ion:101 Resp: 4899

Ion Ratio Lower Upper

101 100

85 0.0 36.1 54.1#

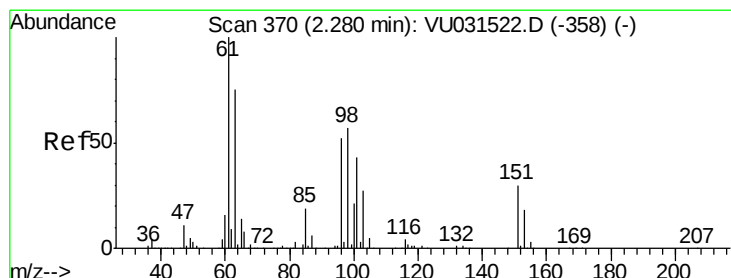
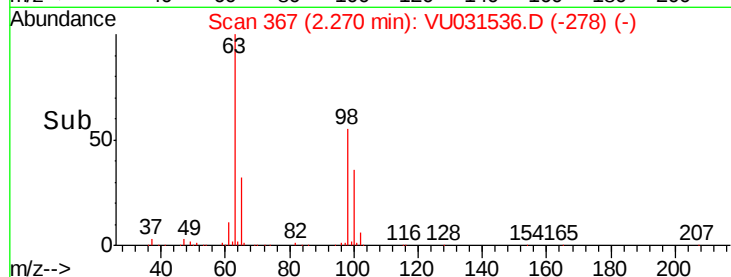
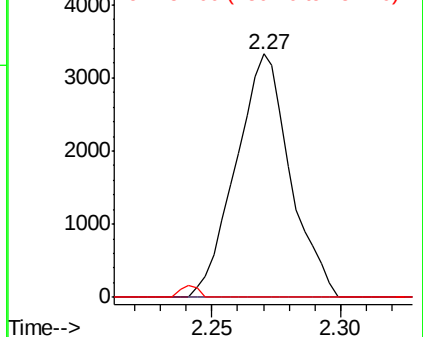
151 1.6 56.1 84.1#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.555 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.01 min

Lab File: VU031536.D

Acq: 26 Apr 2019 16:29

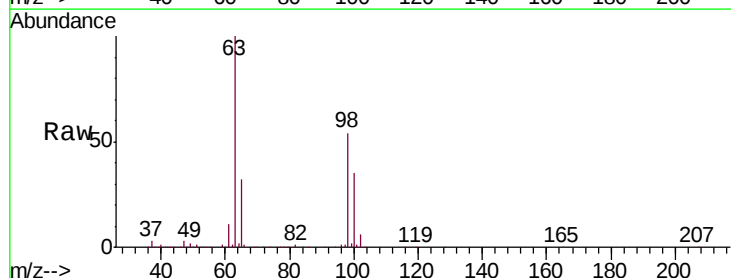
Tgt Ion: 96 Resp: 3724

Ion Ratio Lower Upper

96 100

61 1648.5 135.0 250.6#

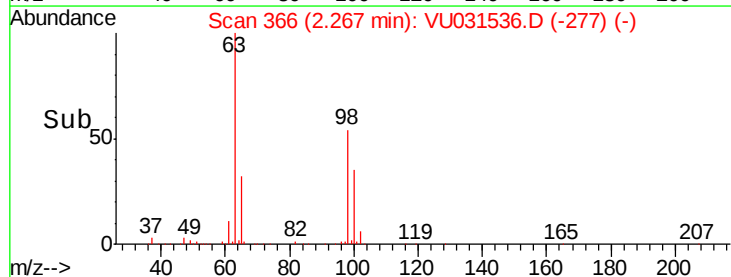
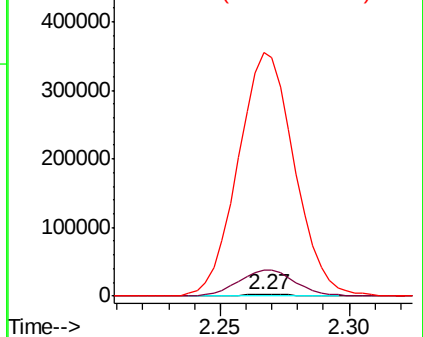
63 15258.8 103.5 192.3#

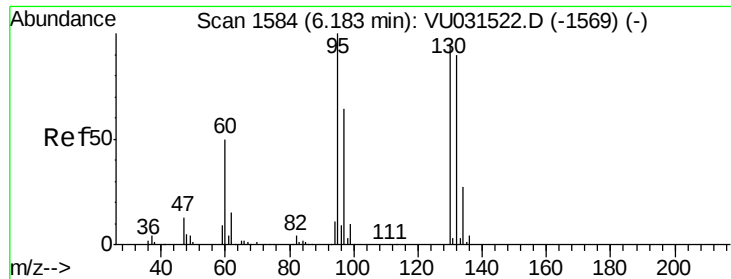


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0

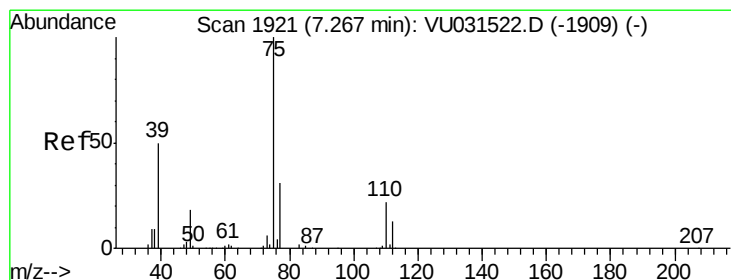
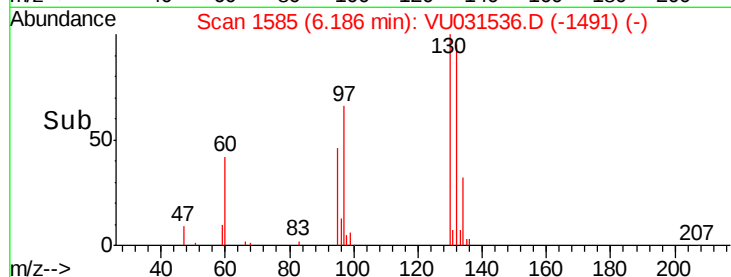
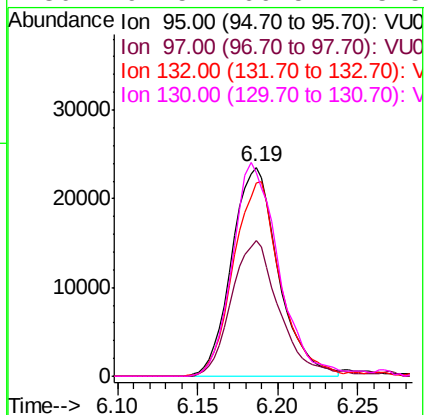
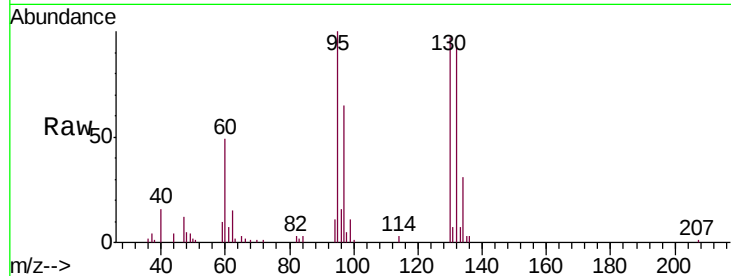




#34  
 Trichloroethene  
 Concen: 6.505 ug/L  
 RT: 6.19 min Scan# 1585  
 Delta R.T. 0.00 min  
 Lab File: VU031536.D  
 Acq: 26 Apr 2019 16:29

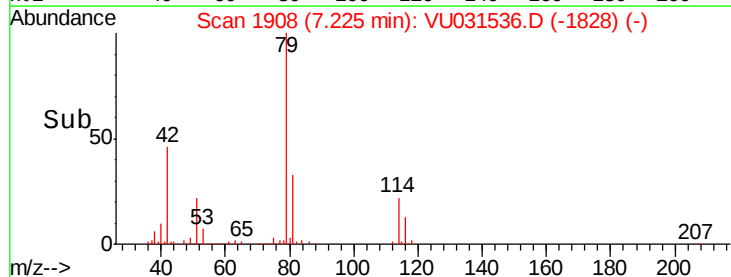
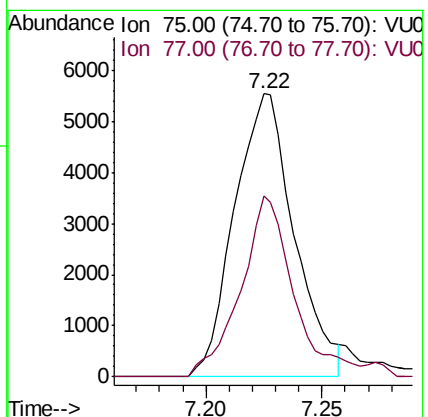
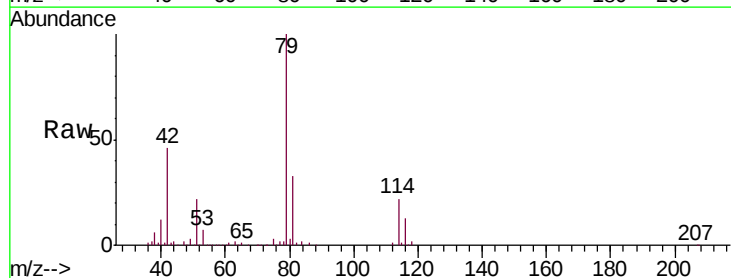
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0X65

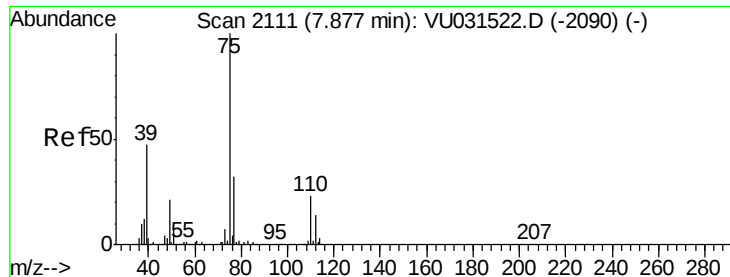
Tgt Ion: 95 Resp: 47005  
 Ion Ratio Lower Upper  
 95 100  
 97 64.7 44.8 83.2  
 132 92.6 63.1 117.1  
 130 97.5 66.5 123.5



#39  
 cis-1,3-Dichloropropene  
 Concen: 0.887 ug/L  
 RT: 7.22 min Scan# 1908  
 Delta R.T. -0.04 min  
 Lab File: VU031536.D  
 Acq: 26 Apr 2019 16:29

Tgt Ion: 75 Resp: 9917  
 Ion Ratio Lower Upper  
 75 100  
 77 64.1 22.1 41.1#





#44

trans-1,3-Dichloropropene

Concen: 0.705 ug/L

RT: 7.85 min Scan# 2101

Delta R.T. -0.03 min

Lab File: VU031536.D

Acq: 26 Apr 2019 16:29

Instrument :

MSVOA\_U

ClientSampleId :

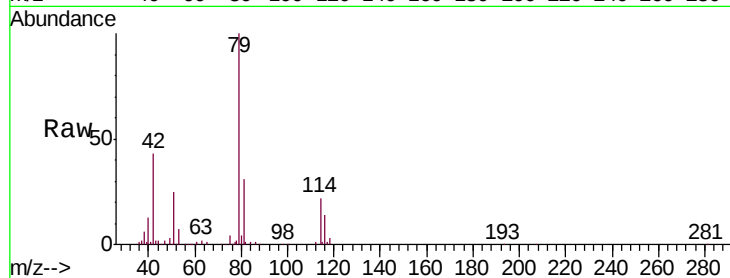
C0X65

Tgt Ion: 75 Resp: 7155

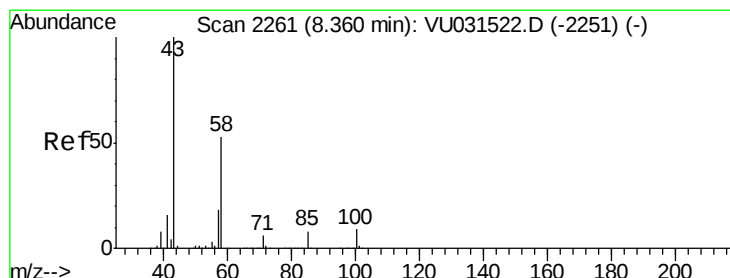
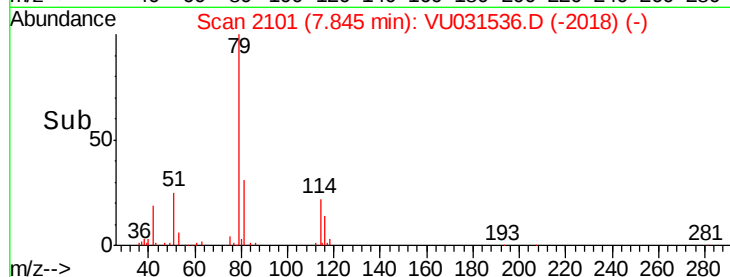
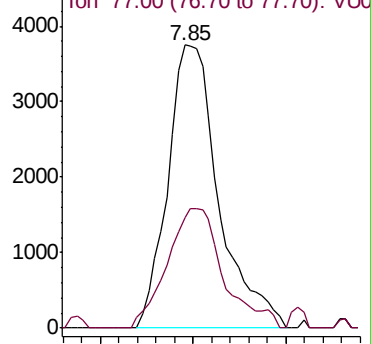
Ion Ratio Lower Upper

75 100

77 39.0 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VU031522.D (-2090) (-)



#48

2-Hexanone

Concen: 4.789 ug/L

RT: 8.31 min Scan# 2246

Delta R.T. -0.05 min

Lab File: VU031536.D

Acq: 26 Apr 2019 16:29

Tgt Ion: 43 Resp: 50434

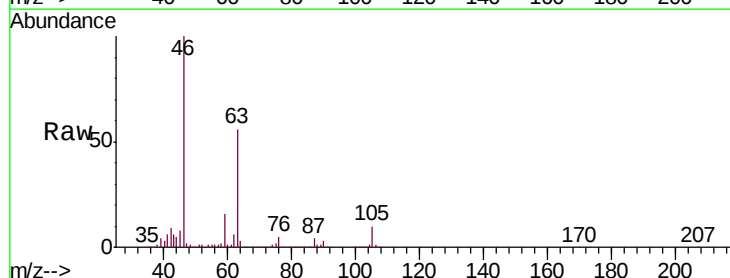
Ion Ratio Lower Upper

43 100

58 34.5 42.1 63.1#

57 25.3 14.6 22.0#

100 0.2 7.2 10.8#



Abundance Ion 43.00 (42.70 to 43.70): VU031522.D (-2251) (-)

Ion 58.00 (57.70 to 58.70): VU031522.D (-2251) (-)

Ion 57.00 (56.70 to 57.70): VU031522.D (-2251) (-)

Ion 100.00 (99.70 to 100.70): VU031522.D (-2251) (-)

Abundance Ion 43.00 (42.70 to 43.70): VU031536.D (-2168) (-)

Ion 58.00 (57.70 to 58.70): VU031536.D (-2168) (-)

Ion 57.00 (56.70 to 57.70): VU031536.D (-2168) (-)

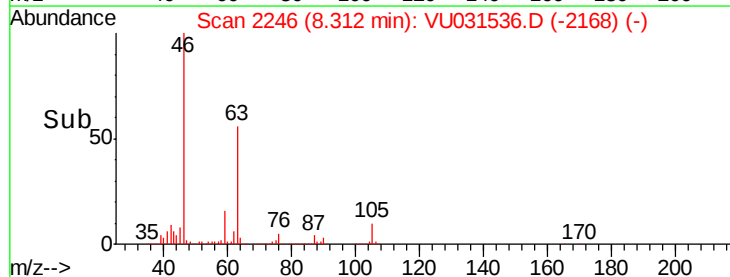
Ion 100.00 (99.70 to 100.70): VU031536.D (-2168) (-)

Abundance Ion 43.00 (42.70 to 43.70): VU031536.D (-2168) (-)

Ion 58.00 (57.70 to 58.70): VU031536.D (-2168) (-)

Ion 57.00 (56.70 to 57.70): VU031536.D (-2168) (-)

Ion 100.00 (99.70 to 100.70): VU031536.D (-2168) (-)



Abundance Ion 43.00 (42.70 to 43.70): VU031536.D (-2168) (-)

Ion 58.00 (57.70 to 58.70): VU031536.D (-2168) (-)

Ion 57.00 (56.70 to 57.70): VU031536.D (-2168) (-)

Ion 100.00 (99.70 to 100.70): VU031536.D (-2168) (-)

Abundance Ion 43.00 (42.70 to 43.70): VU031536.D (-2168) (-)

Ion 58.00 (57.70 to 58.70): VU031536.D (-2168) (-)

Ion 57.00 (56.70 to 57.70): VU031536.D (-2168) (-)

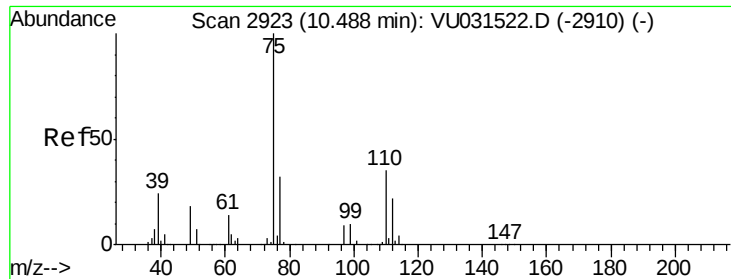
Ion 100.00 (99.70 to 100.70): VU031536.D (-2168) (-)

Abundance Ion 43.00 (42.70 to 43.70): VU031536.D (-2168) (-)

Ion 58.00 (57.70 to 58.70): VU031536.D (-2168) (-)

Ion 57.00 (56.70 to 57.70): VU031536.D (-2168) (-)

Ion 100.00 (99.70 to 100.70): VU031536.D (-2168) (-)



#59

1,2,3-Trichloropropane

Concen: 4.463 ug/L

RT: 11.48 min Scan# 3231

Delta R.T. 0.99 min

Lab File: VU031536.D

Acq: 26 Apr 2019 16:29

Instrument :

MSVOA\_U

ClientSampleId :

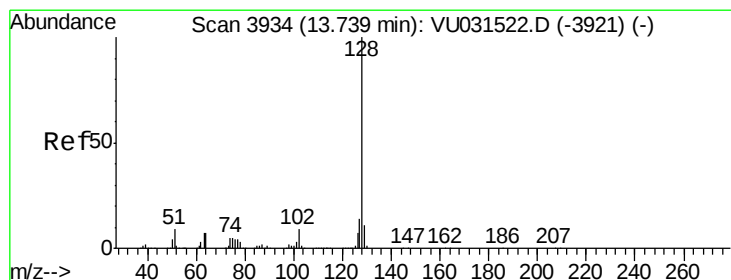
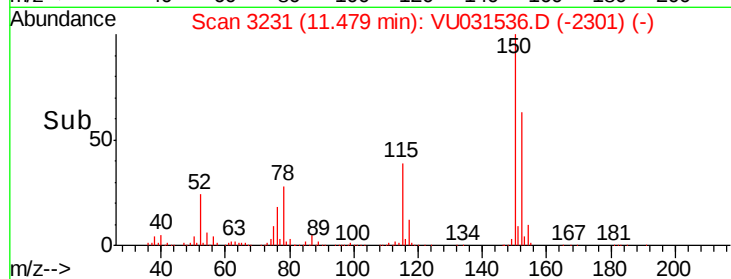
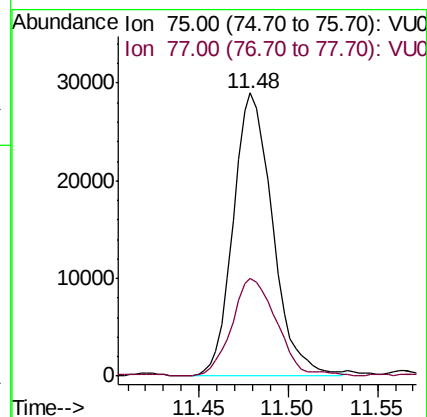
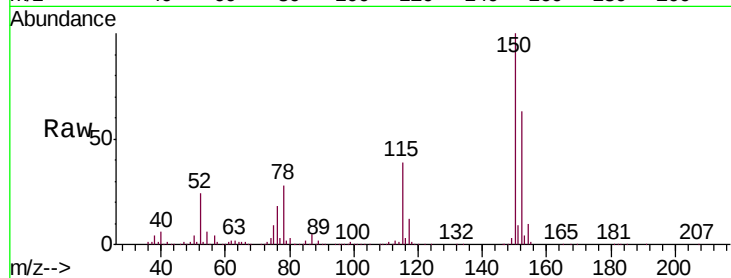
C0X65

Tgt Ion: 75 Resp: 44782

Ion Ratio Lower Upper

75 100

77 38.3 25.9 38.9



#69

Naphthalene

Concen: 0.759 ug/L

RT: 13.76 min Scan# 3940

Delta R.T. 0.02 min

Lab File: VU031536.D

Acq: 26 Apr 2019 16:29

Tgt Ion: 128 Resp: 17865

Ion Ratio Lower Upper

128 100

127 4.0 10.6 15.8#

129 3.5 8.7 13.1#

