

Data File : VU026829.D  
Acq On : 17 Sep 2018 18:36  
Operator : MD/SY  
Sample : J4864-03 100X  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0D09

Quant Time: Sep 18 01:47:30 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091718WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Sep 18 01:34:58 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 249190   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 235361   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 95715    | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 86883    | 47.13    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 94.26%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 75015    | 47.54    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 95.08%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 125969   | 36.12    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 72.24%  |
| 21) 2-Butanone-d5              | 4.18    | 46    | 130612   | 106.77   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 106.77% |
| 24) Chloroform-d               | 4.65    | 84    | 162964   | 47.66    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.32%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 105260   | 48.89    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.78%  |
| 32) Benzene-d6                 | 5.34    | 84    | 335968   | 50.94    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.88% |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 109236   | 51.40    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 102.80% |
| 41) Toluene-d8                 | 7.57    | 98    | 284320   | 47.71    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 95.42%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 45082    | 47.51    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 95.02%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 91112    | 109.08   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 109.08% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 144823   | 48.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 97.74%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 107041   | 53.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 107.52% |

#### Target Compounds

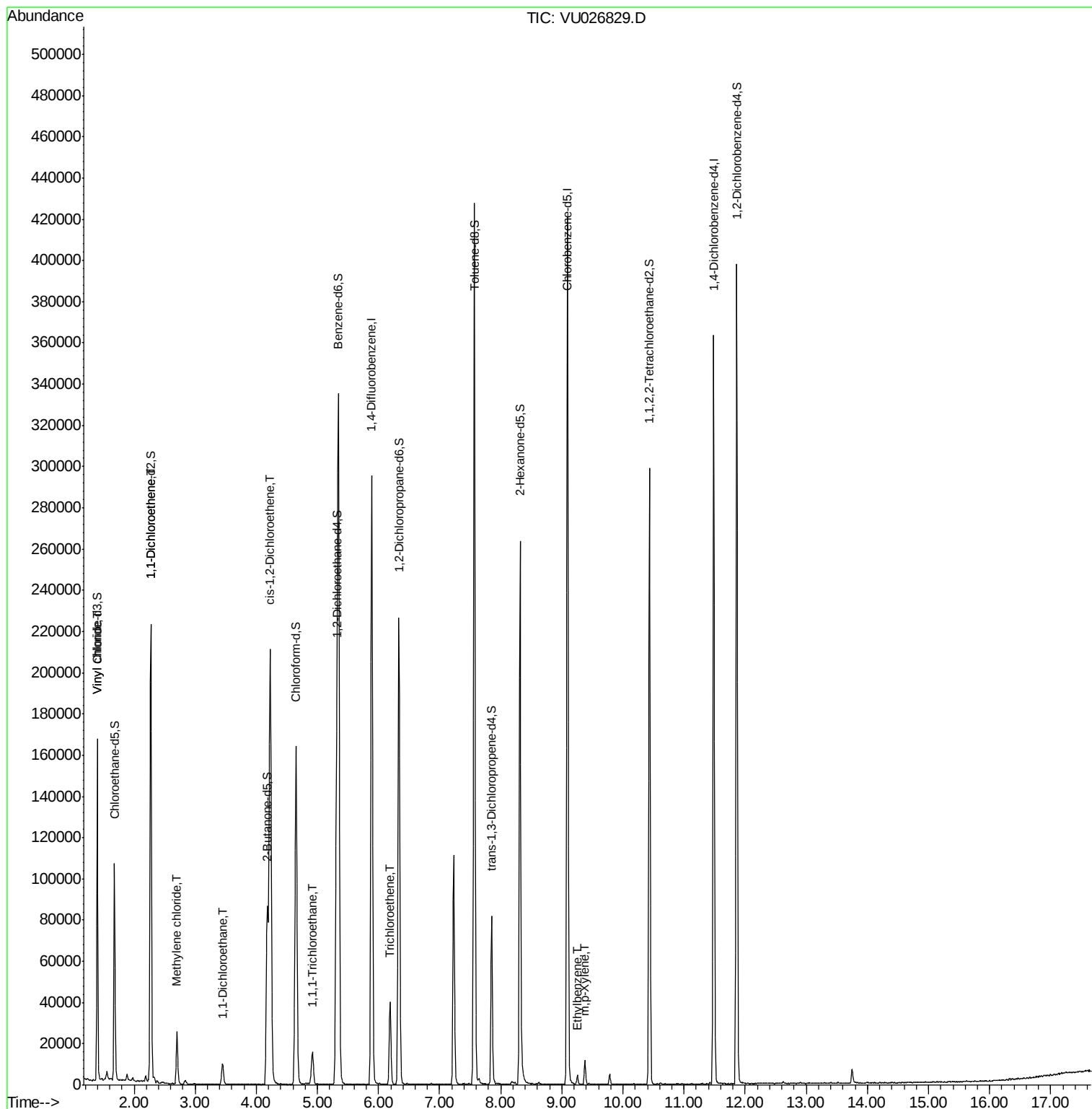
|                            |      |     |        |              | Qvalue |
|----------------------------|------|-----|--------|--------------|--------|
| 5) Vinyl chloride          | 1.40 | 62  | 21699  | 9.282 ug/L   | 96     |
| 12) 1,1-Dichloroethene     | 2.28 | 96  | 2585   | 1.600 ug/L # | 1      |
| 16) Methylene chloride     | 2.70 | 84  | 11415  | 5.557 ug/L   | 95     |
| 19) 1,1-Dichloroethane     | 3.45 | 63  | 11619  | 3.385 ug/L   | 98     |
| 20) cis-1,2-Dichloroethene | 4.23 | 96  | 116021 | 59.272 ug/L  | 97     |
| 30) 1,1,1-Trichloroethane  | 4.92 | 97  | 12122  | 4.329 ug/L   | 98     |
| 34) Trichloroethene        | 6.19 | 95  | 14011  | 8.002 ug/L   | 99     |
| 52) Ethylbenzene           | 9.25 | 91  | 3638   | 0.470 ug/L   | 97     |
| 53) m,p-Xylene             | 9.38 | 106 | 3760   | 1.264 ug/L   | 87     |

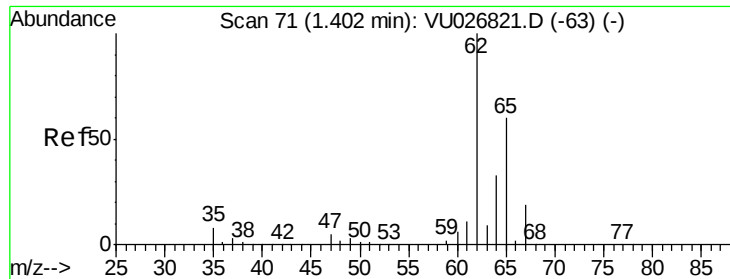
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 9.282 ug/L

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU026829.D

Acq: 17 Sep 2018 18:36

Instrument :

MSVOA\_U

ClientSampleId :

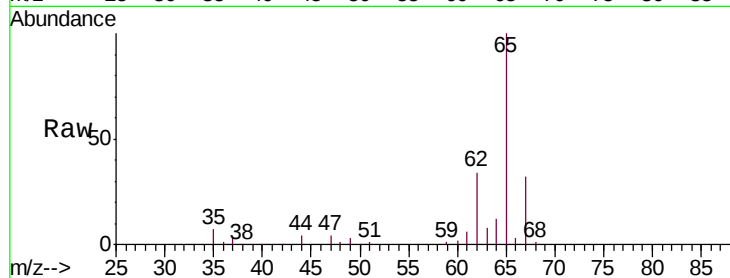
C0D09

Tgt Ion: 62 Resp: 21699

Ion Ratio Lower Upper

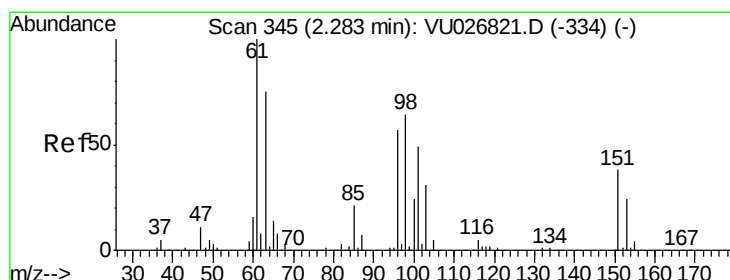
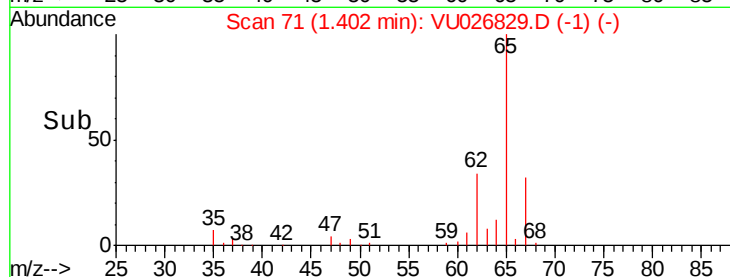
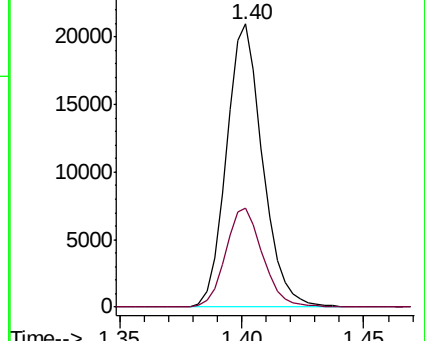
62 100

64 34.9 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#12

1,1-Dichloroethene

Concen: 1.600 ug/L

RT: 2.28 min Scan# 344

Delta R.T. -0.00 min

Lab File: VU026829.D

Acq: 17 Sep 2018 18:36

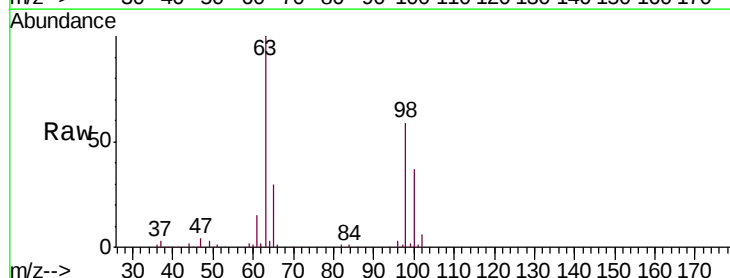
Tgt Ion: 96 Resp: 2585

Ion Ratio Lower Upper

96 100

61 585.0 124.0 230.4#

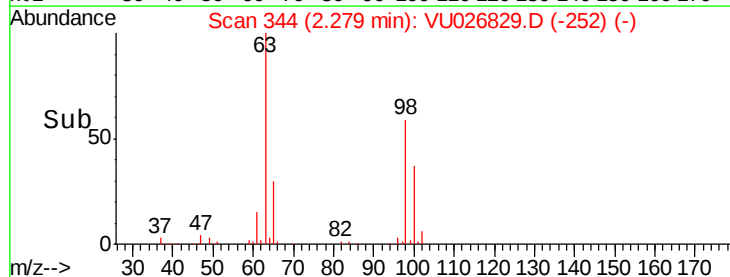
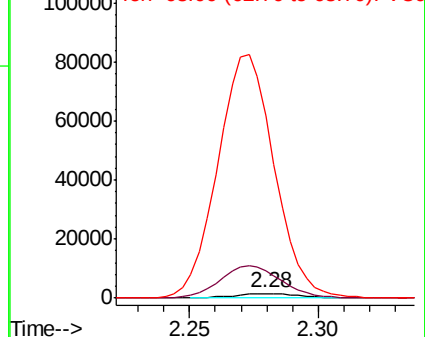
63 3974.3 97.7 181.5#

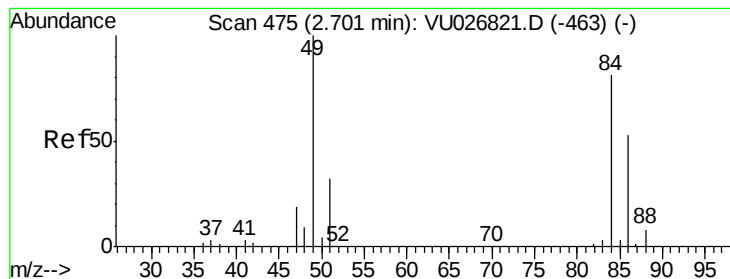


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#16

Methylene chloride

Concen: 5.557 ug/L

RT: 2.70 min Scan# 475

Delta R.T. -0.00 min

Lab File: VU026829.D

Acq: 17 Sep 2018 18:36

Instrument :

MSVOA\_U

ClientSampled :

C0D09

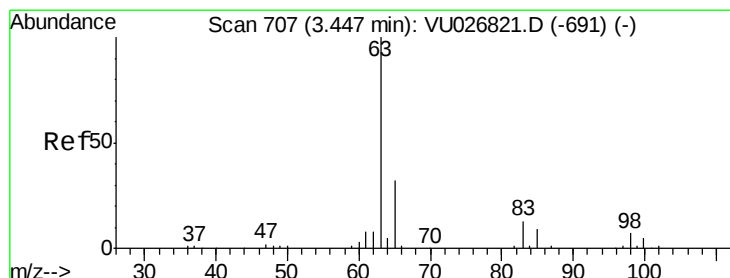
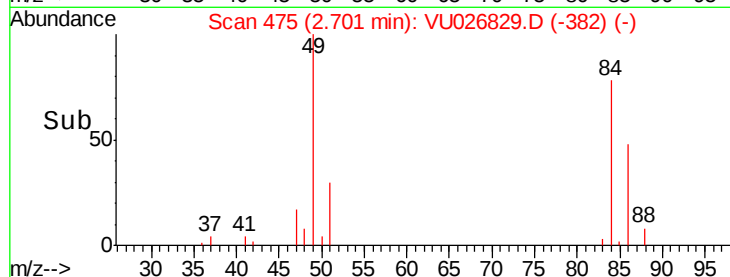
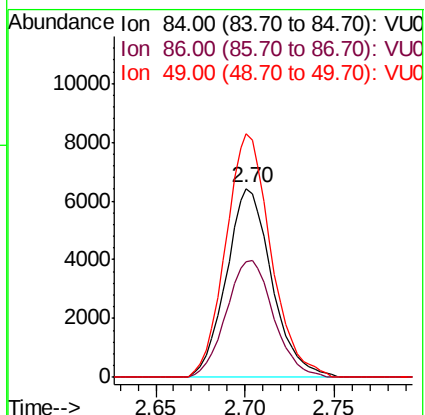
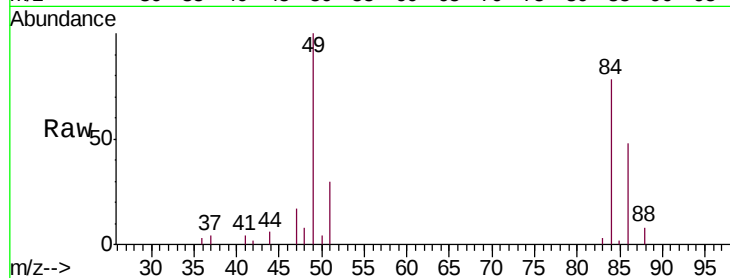
Tgt Ion: 84 Resp: 11415

Ion Ratio Lower Upper

84 100

86 61.4 45.3 84.1

49 128.8 86.2 160.2



#19

1,1-Dichloroethane

Concen: 3.385 ug/L

RT: 3.45 min Scan# 707

Delta R.T. -0.00 min

Lab File: VU026829.D

Acq: 17 Sep 2018 18:36

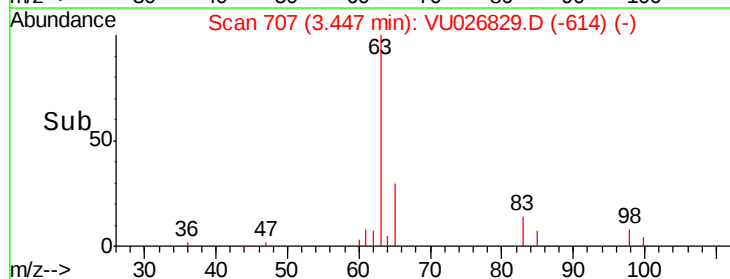
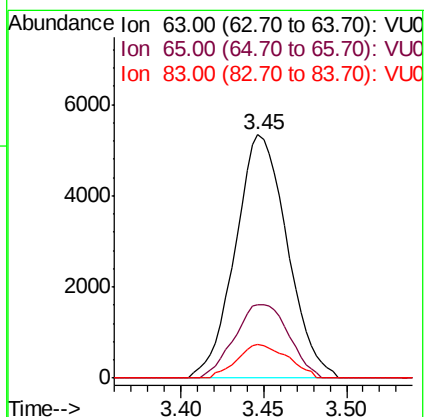
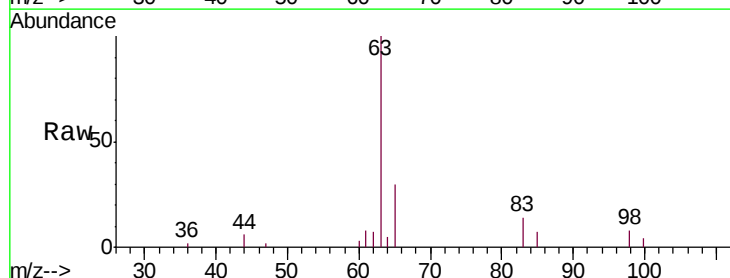
Tgt Ion: 63 Resp: 11619

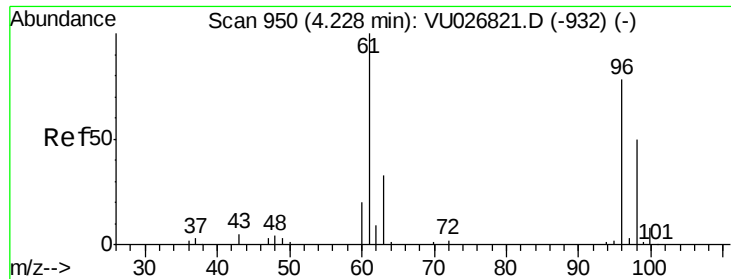
Ion Ratio Lower Upper

63 100

65 30.1 22.1 41.1

83 14.0 9.3 17.3

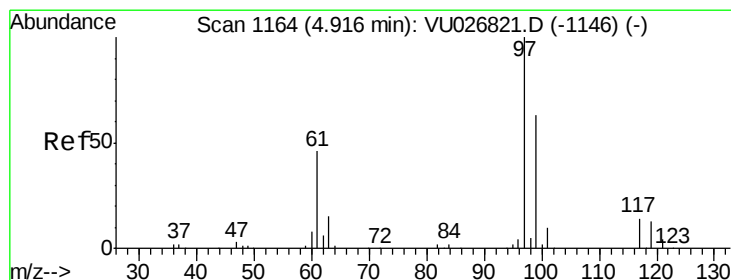
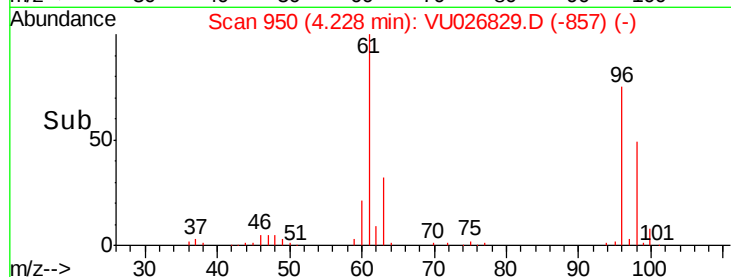
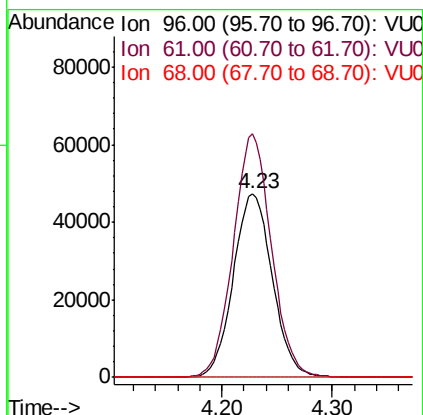
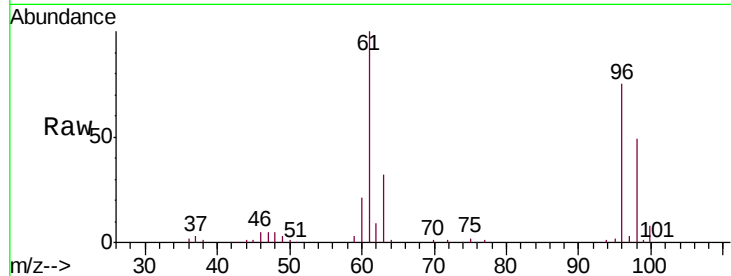




#20  
 cis-1,2-Dichloroethene  
 Concen: 59.272 ug/L  
 RT: 4.23 min Scan# 950  
 Delta R.T. -0.00 min  
 Lab File: VU026829.D  
 Acq: 17 Sep 2018 18:36

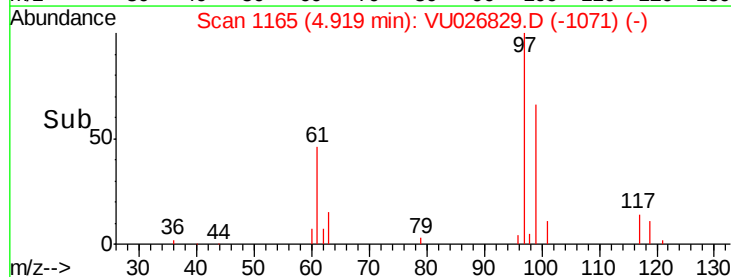
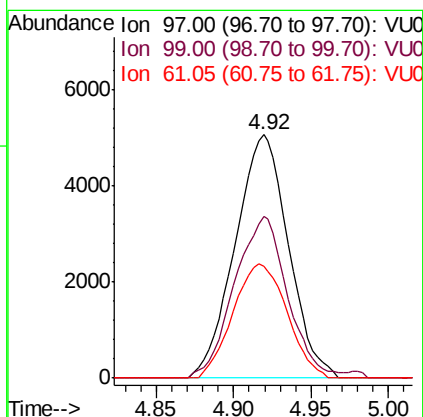
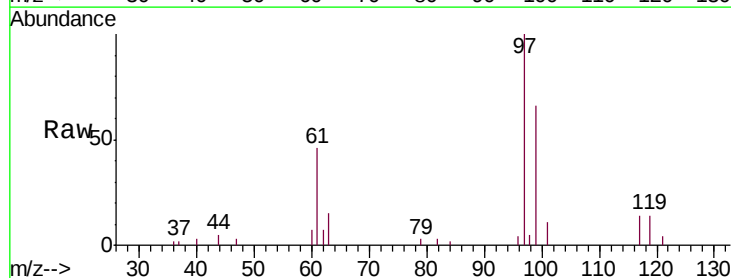
Instrument :  
 MSVOA\_U  
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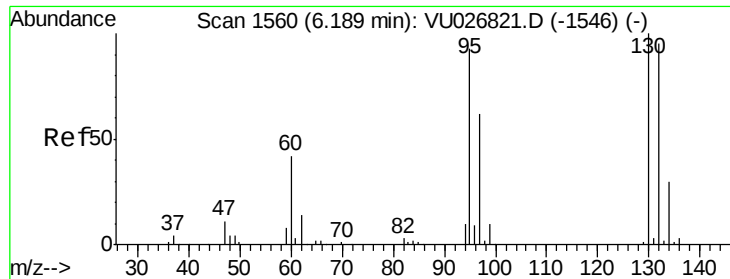
Tgt Ion: 96 Resp: 116021  
 Ion Ratio Lower Upper  
 96 100  
 61 132.6 90.2 167.4  
 68 0.0 0.0 0.0



#30  
 1,1,1-Trichloroethane  
 Concen: 4.329 ug/L  
 RT: 4.92 min Scan# 1165  
 Delta R.T. 0.00 min  
 Lab File: VU026829.D  
 Acq: 17 Sep 2018 18:36

Tgt Ion: 97 Resp: 12122  
 Ion Ratio Lower Upper  
 97 100  
 99 66.0 51.8 77.8  
 61 47.5 36.6 54.8





#34

Trichloroethene

Concen: 8.002 ug/L

RT: 6.19 min Scan# 1560

Delta R.T. -0.00 min

Lab File: VU026829.D

Acq: 17 Sep 2018 18:36

Instrument :

MSVOA\_U

ClientSampleId :

C0D09

Tgt Ion: 95 Resp: 14011

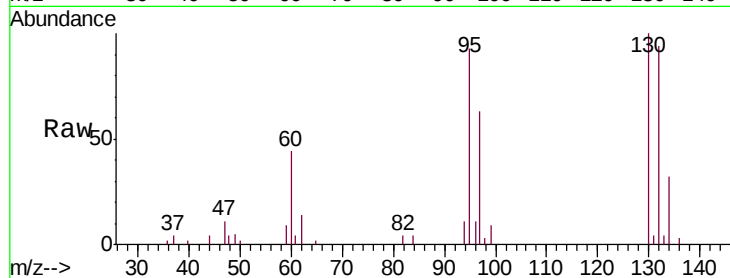
Ion Ratio Lower Upper

95 100

97 67.5 46.3 85.9

132 101.3 71.7 133.1

130 107.8 75.3 139.8

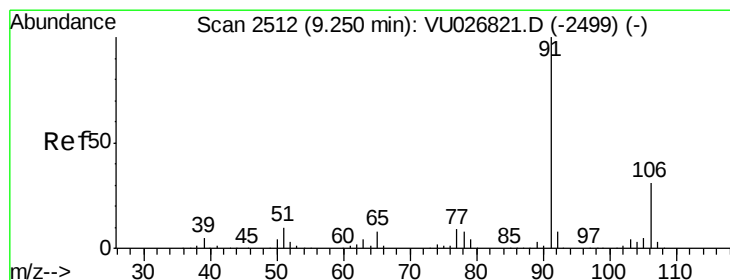
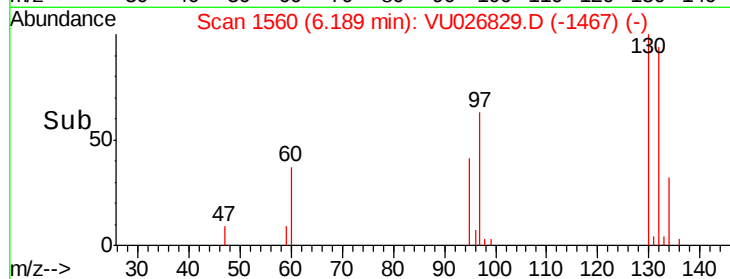
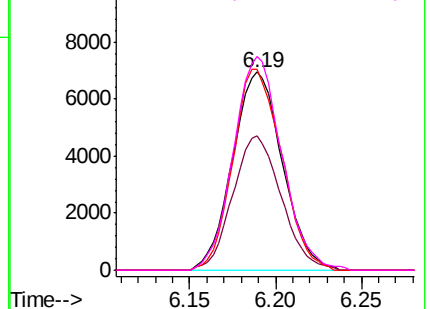


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#52

Ethylbenzene

Concen: 0.470 ug/L

RT: 9.25 min Scan# 2513

Delta R.T. 0.00 min

Lab File: VU026829.D

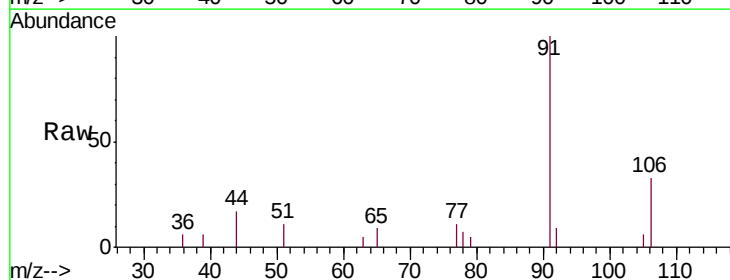
Acq: 17 Sep 2018 18:36

Tgt Ion: 91 Resp: 3638

Ion Ratio Lower Upper

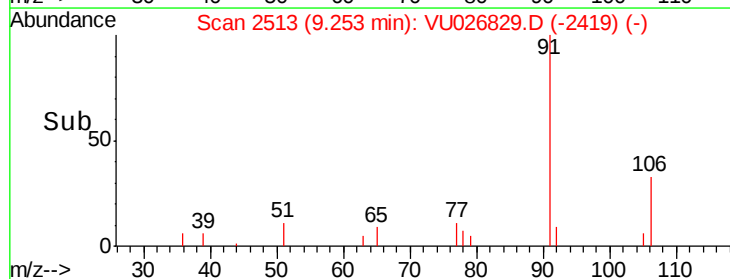
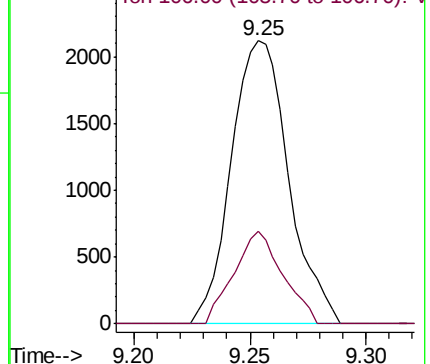
91 100

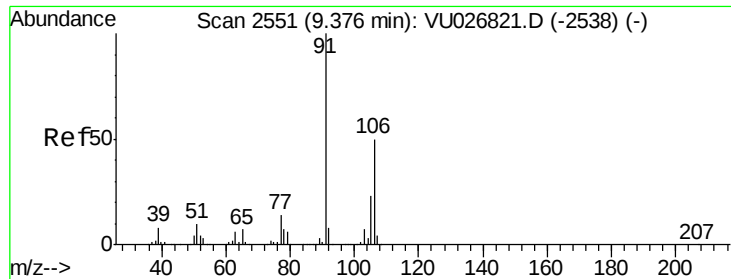
106 32.9 22.0 40.8



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V





#53  
 m,p-Xylene  
 Concen: 1.264 ug/L  
 RT: 9.38 min Scan# 2551  
 Delta R.T. -0.00 min  
 Lab File: VU026829.D  
 Acq: 17 Sep 2018 18:36

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
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Tgt Ion:106 Resp: 3760  
 Ion Ratio Lower Upper  
 106 100  
 91 179.0 139.2 258.6

