

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092019\  
 Data File : VU034689.D  
 Acq On : 20 Sep 2019 15:21  
 Operator : JC/SP  
 Sample : K4984-02  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BEDP3

Quant Time: Sep 23 09:01:11 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Sep 21 02:29:10 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 451348   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 394094   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.46 | 152  | 159531   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 206796   | 44.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 89.52%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 172026   | 48.17    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 96.34%  |
| 11) 1,1-Dichloroethene-d2      | 2.26    | 63    | 274211   | 35.04    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 70.08%  |
| 21) 2-Butanone-d5              | 4.15    | 46    | 397152   | 112.15   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 112.15% |
| 24) Chloroform-d               | 4.62    | 84    | 330664   | 49.23    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.46%  |
| 26) 1,2-Dichloroethane-d4      | 5.28    | 65    | 247878   | 50.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.40% |
| 32) Benzene-d6                 | 5.32    | 84    | 639087   | 52.32    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 104.64% |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 235639   | 55.19    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 110.38% |
| 41) Toluene-d8                 | 7.54    | 98    | 573603   | 49.36    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 98.72%  |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 107664   | 52.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 105.30% |
| 47) 2-Hexanone-d5              | 8.29    | 63    | 249479   | 116.34   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 116.34% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84    | 303360   | 51.21    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 102.42% |
| 64) 1,2-Dichlorobenzene-d4     | 11.84   | 152   | 171721   | 51.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 102.66% |

## Target Compounds

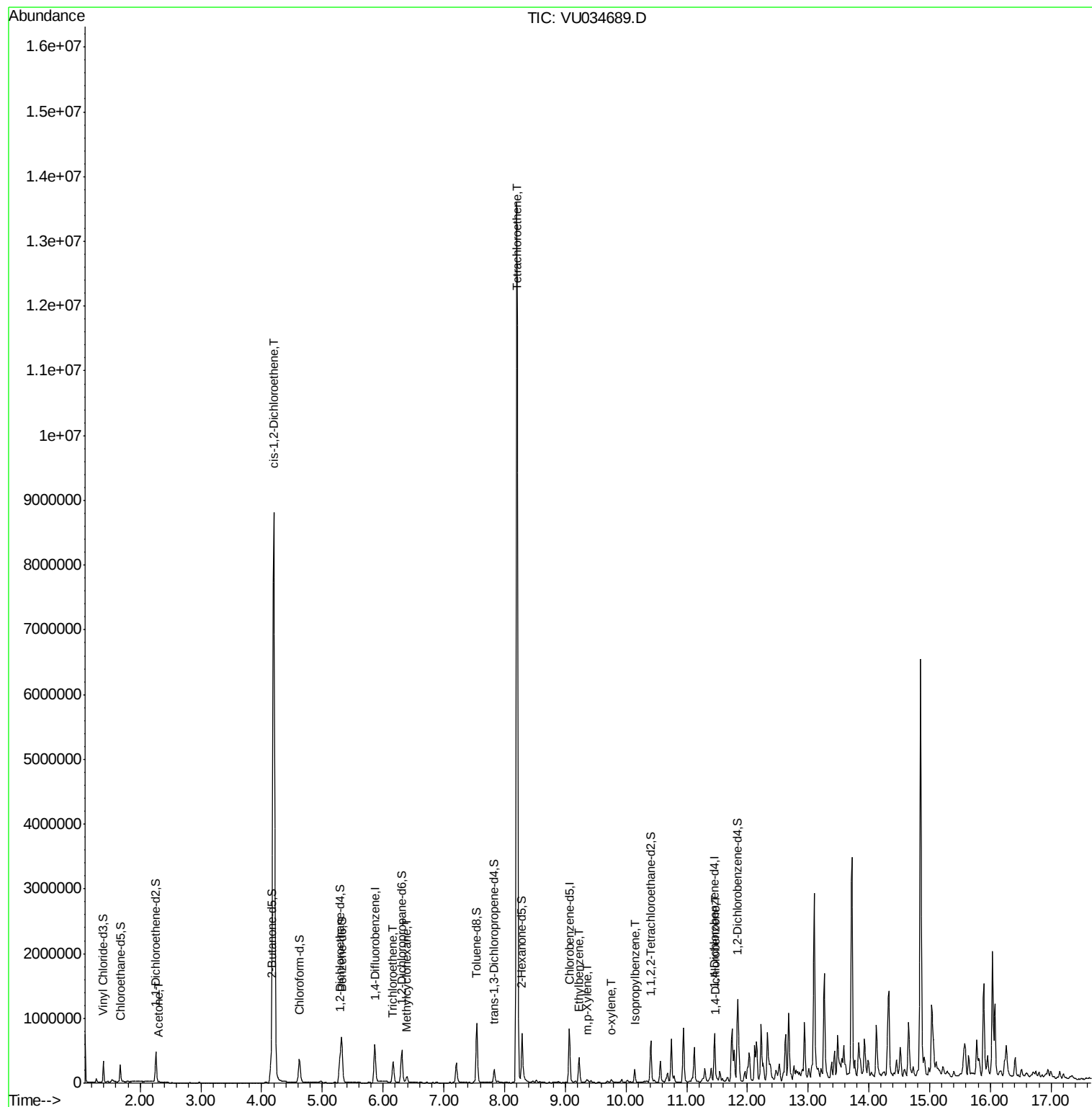
| Target Compounds           | R.T.  | QIon | Response | Conc     | Units | Ovalue |
|----------------------------|-------|------|----------|----------|-------|--------|
| 13) Acetone                | 2.31  | 43   | 12372    | 3.003    | ug/L  | 98     |
| 20) cis-1,2-Dichloroethene | 4.20  | 96   | 4322756  | 1145.082 | ug/L  | 99     |
| 34) Trichloroethene        | 6.16  | 95   | 103642   | 30.703   | ug/L  | 98     |
| 35) Methylcyclohexane      | 6.39  | 83   | 33736    | 5.889    | ug/L  | 98     |
| 46) Tetrachloroethene      | 8.21  | 164  | 2540229  | 1069.833 | ug/L  | 97     |
| 52) Ethylbenzene           | 9.23  | 91   | 265751   | 15.976   | ug/L  | 95     |
| 53) m,p-Xylene             | 9.36  | 106  | 8849     | 1.502    | ug/L  | 88     |
| 54) o-xylene               | 9.76  | 106  | 11325    | 1.943    | ug/L  | 95     |
| 56) Isopropylbenzene       | 10.14 | 105  | 120260   | 7.654    | ug/L  | 99     |
| 63) 1,4-Dichlorobenzene    | 11.48 | 146  | 9184     | 1.632    | ug/L  | 99     |

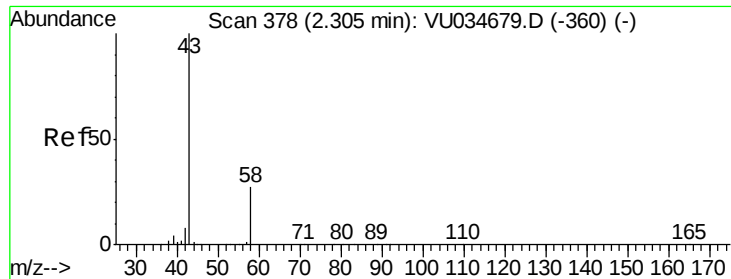
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Sep 21 02:29:10 2019  
Response via : Initial Calibration





#13

Acetone

Concen: 3.003 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

Lab File: VU034689.D

Acq: 20 Sep 2019 15:21

Instrument :

MSVOA\_U

ClientSampleId :

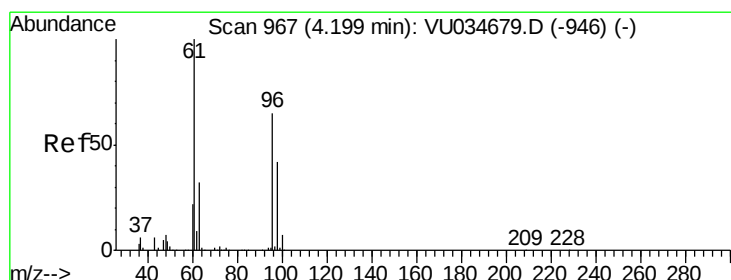
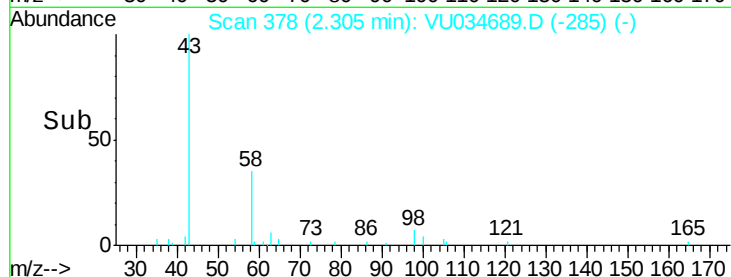
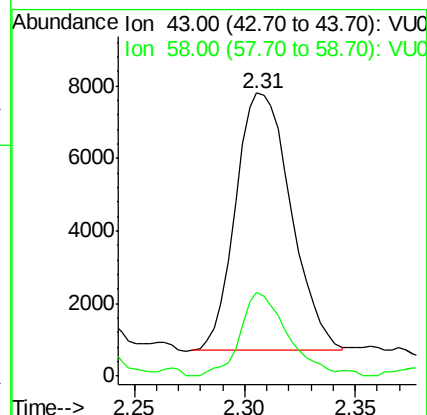
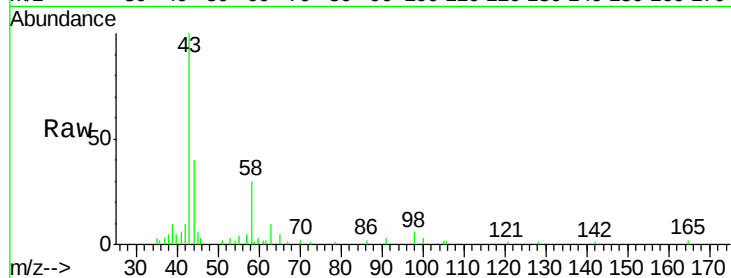
BEDP3

Tot Ion: 43 Resp: 12372

Ion Ratio Lower Upper

43 100

58 27.8 0.0 53.4



#20

cis-1,2-Dichloroethene

Concen: 1145.082 ug/L

RT: 4.20 min Scan# 967

Delta R.T. -0.00 min

Lab File: VU034689.D

Acq: 20 Sep 2019 15:21

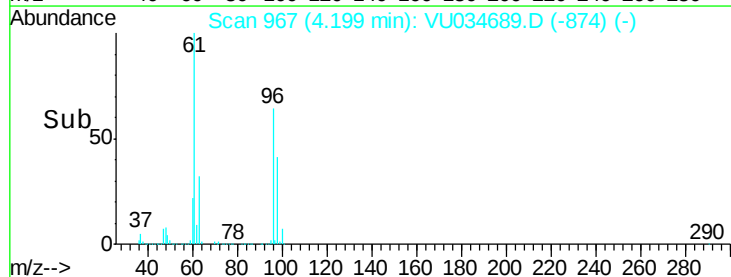
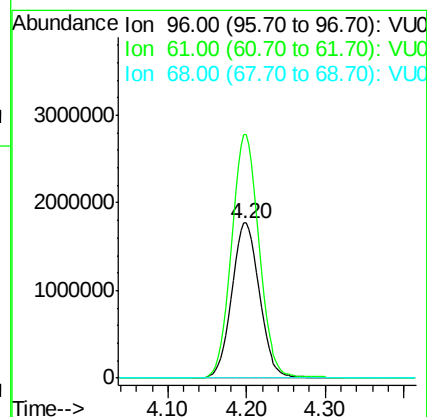
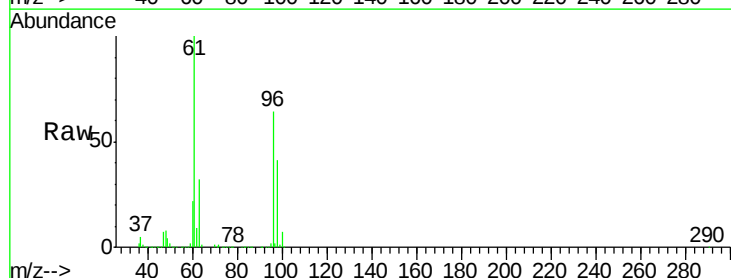
Tgt Ion: 96 Resp: 4322756

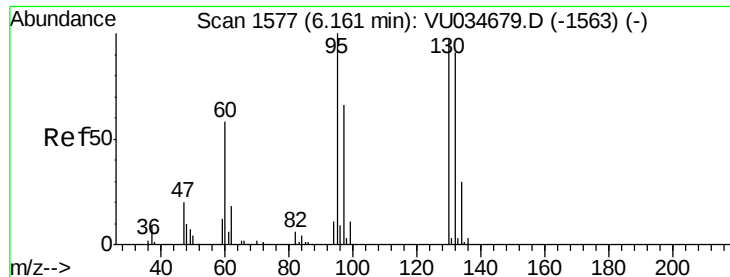
Ion Ratio Lower Upper

96 100

61 157.0 108.8 202.2

68 0.0 0.0 0.0





#34

Trichloroethene

Concen: 30.703 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU034689.D

Acq: 20 Sep 2019 15:21

Instrument :

MSVOA\_U

ClientSampleId :

BEDP3

Tot Ion: 95 Resp: 103642

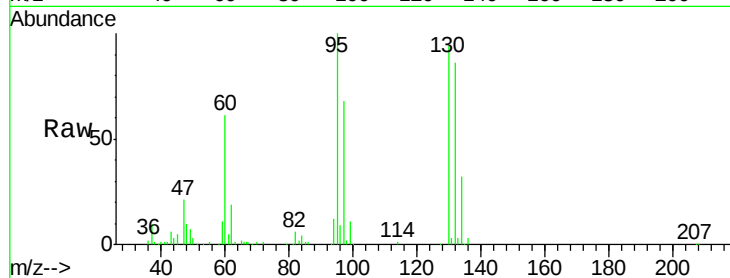
Ion Ratio Lower Upper

95 100

97 68.0 43.7 81.1

132 86.3 61.0 113.2

130 93.6 65.7 121.9

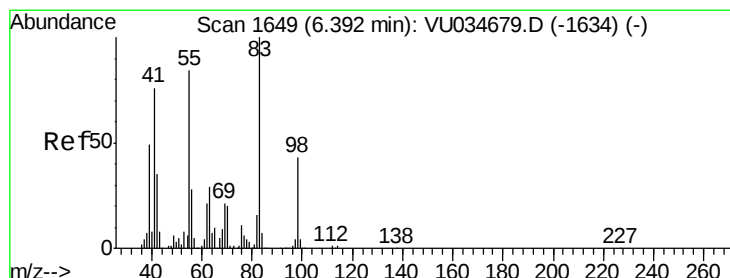
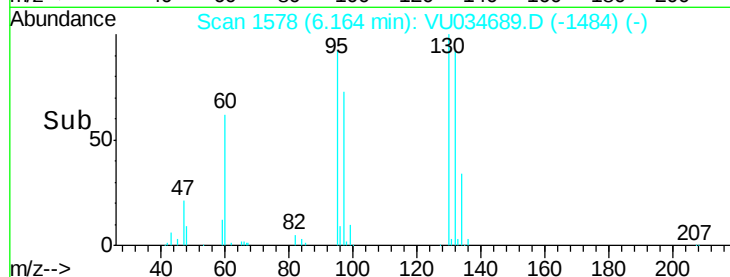
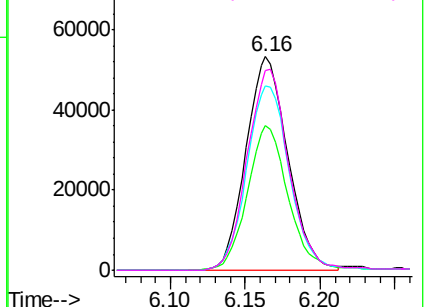


Abundance Ion 95.00 (94.70 to 95.70): VU034679.D (-1563) (-)

Ion 97.00 (96.70 to 97.70): VU034679.D (-1563) (-)

Ion 132.00 (131.70 to 132.70): VU034679.D (-1563) (-)

Ion 130.00 (129.70 to 130.70): VU034679.D (-1563) (-)



#35

Methylcyclohexane

Concen: 5.889 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU034689.D

Acq: 20 Sep 2019 15:21

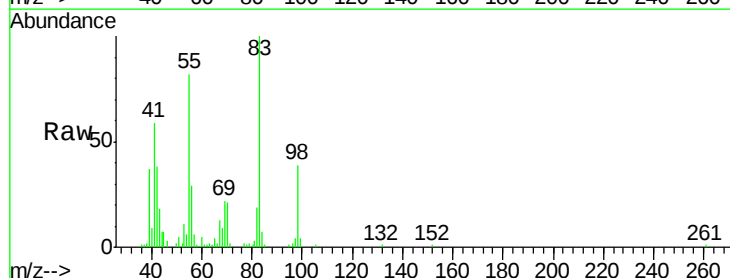
Tgt Ion: 83 Resp: 33736

Ion Ratio Lower Upper

83 100

55 89.2 71.6 107.4

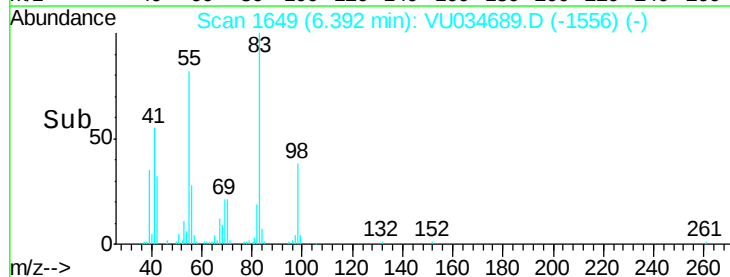
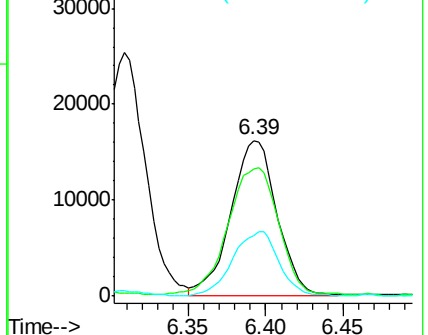
98 41.3 35.7 53.5

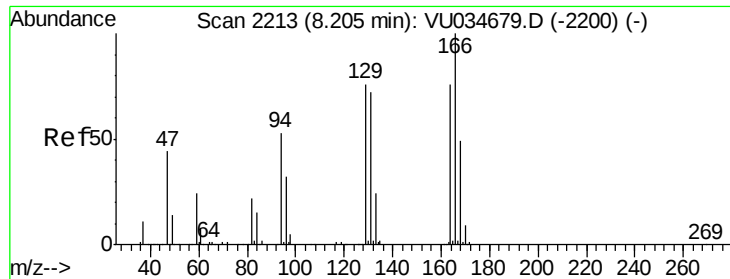


Abundance Ion 83.00 (82.70 to 83.70): VU034679.D (-1634) (-)

Ion 55.00 (54.70 to 55.70): VU034679.D (-1634) (-)

Ion 98.00 (97.70 to 98.70): VU034679.D (-1634) (-)





#46

Tetrachloroethene

Concen: 1069.833 ug/L

RT: 8.21 min Scan# 2213

Delta R.T. -0.00 min

Lab File: VU034689.D

Acq: 20 Sep 2019 15:21

Instrument :

MSVOA\_U

ClientSampleId :

BEDP3

Tot Ion:164 Resp: 2540229

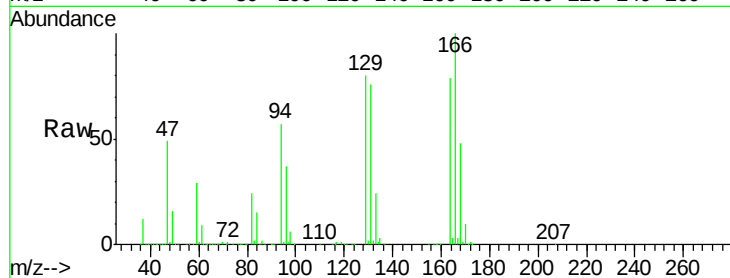
Ion Ratio Lower Upper

164 100

129 101.5 71.9 133.5

131 96.6 66.3 123.1

166 127.0 93.4 173.6

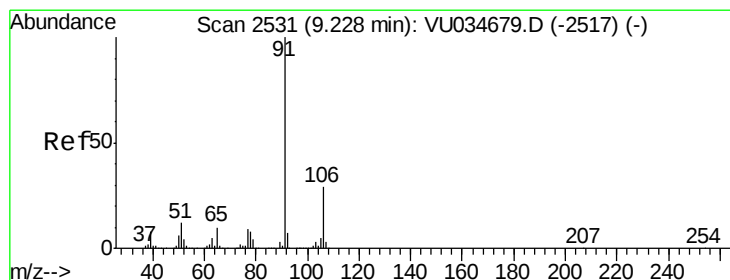
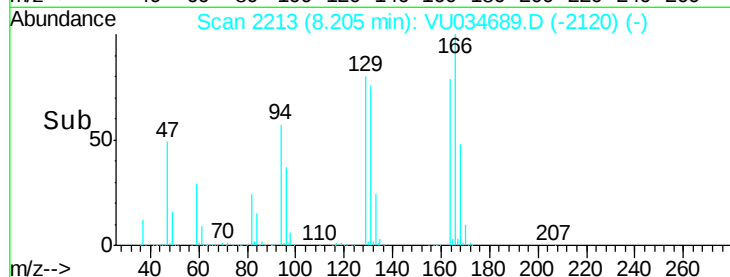
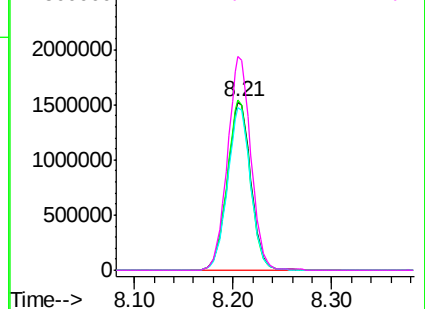


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#52

Ethylbenzene

Concen: 15.976 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. -0.00 min

Lab File: VU034689.D

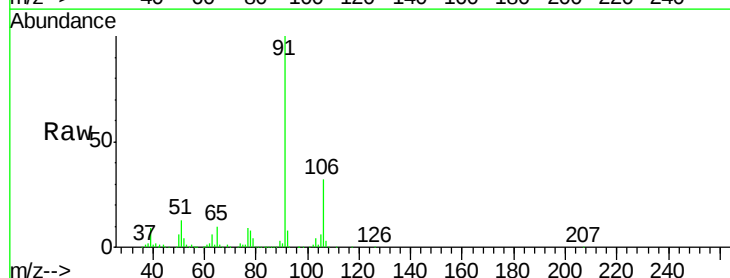
Acq: 20 Sep 2019 15:21

Tgt Ion: 91 Resp: 265751

Ion Ratio Lower Upper

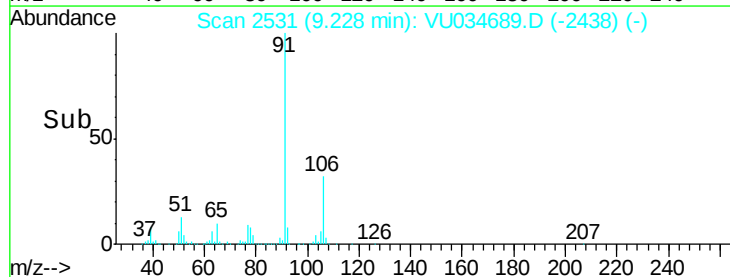
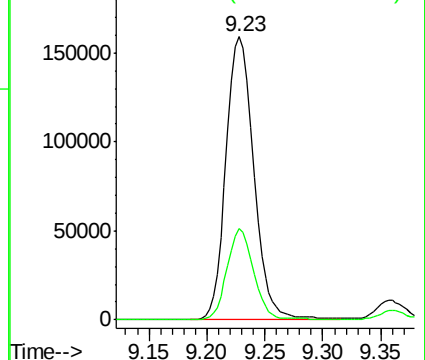
91 100

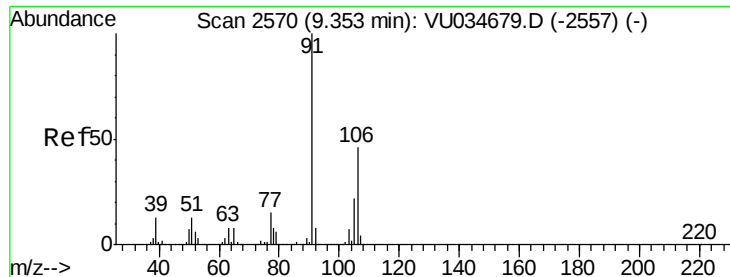
106 32.1 20.6 38.4



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 1.502 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.01 min

Lab File: VU034689.D

Acq: 20 Sep 2019 15:21

Instrument :

MSVOA\_U

ClientSampleId :

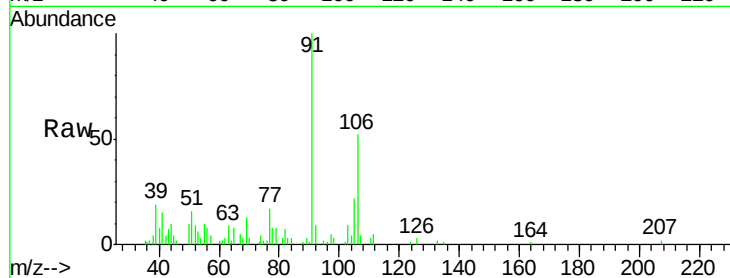
BEDP3

Tot Ion:106 Resp: 8849

Ion Ratio Lower Upper

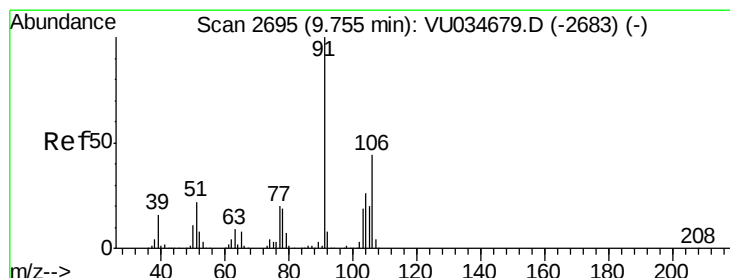
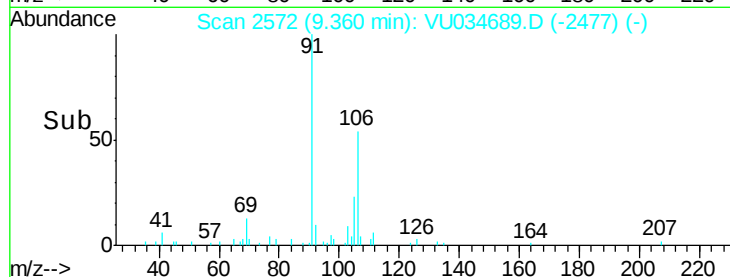
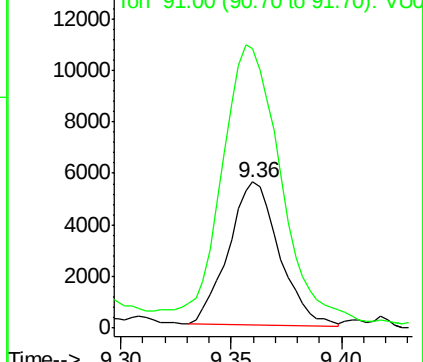
106 100

91 191.3 146.9 272.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 1.943 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. -0.00 min

Lab File: VU034689.D

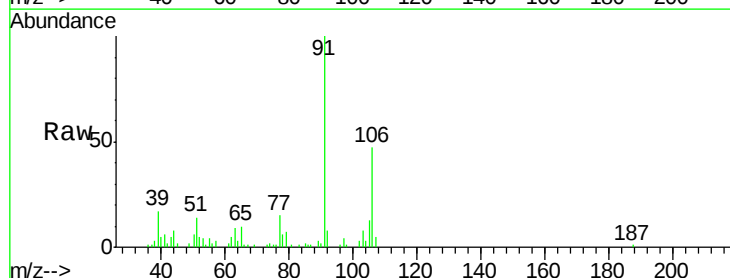
Acq: 20 Sep 2019 15:21

Tgt Ion:106 Resp: 11325

Ion Ratio Lower Upper

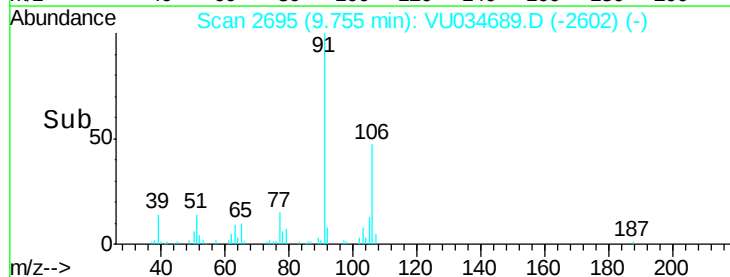
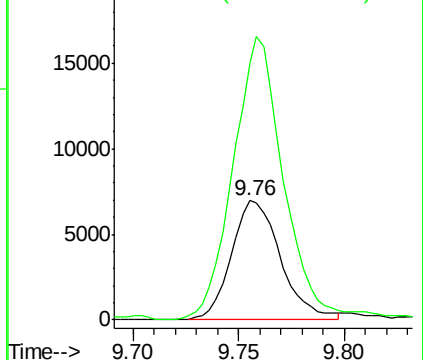
106 100

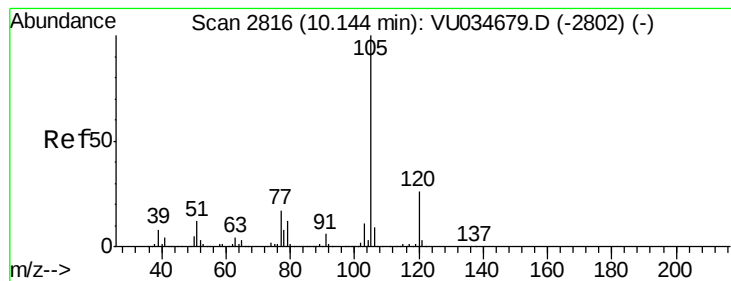
91 214.7 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#56

Isopropylbenzene

Concen: 7.654 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. -0.00 min

Lab File: VU034689.D

Acq: 20 Sep 2019 15:21

Instrument :

MSVOA\_U

ClientSampleId :

BEDP3

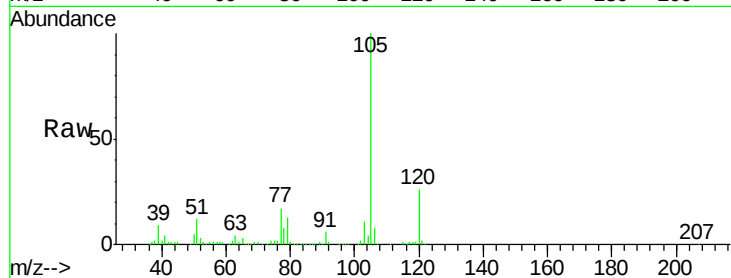
Tot Ion:105 Resp: 120260

Ion Ratio Lower Upper

105 100

120 25.9 20.4 30.6

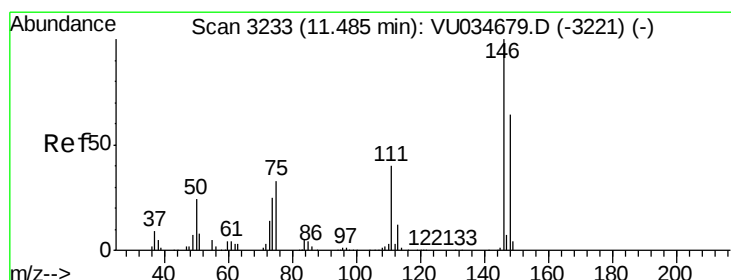
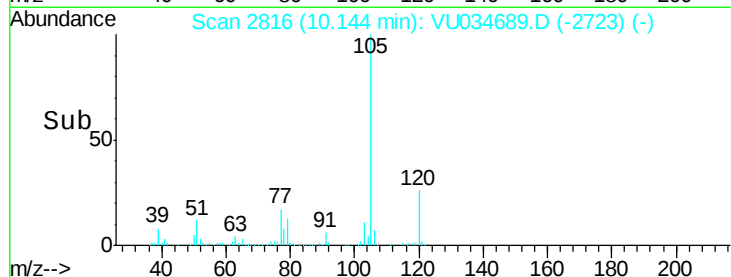
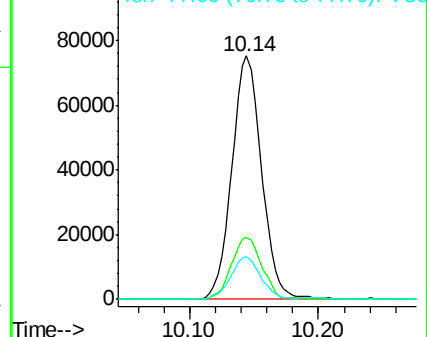
77 17.6 14.2 21.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#63

1,4-Dichlorobenzene

Concen: 1.632 ug/L

RT: 11.48 min Scan# 3232

Delta R.T. -0.00 min

Lab File: VU034689.D

Acq: 20 Sep 2019 15:21

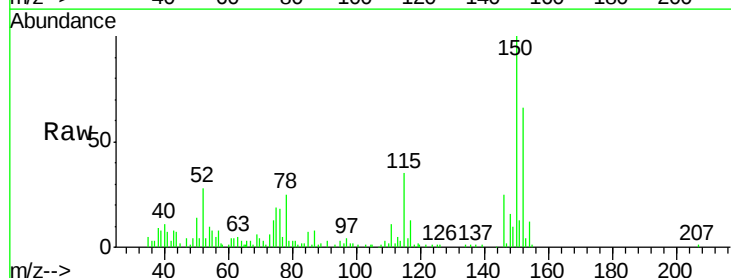
Tgt Ion:146 Resp: 9184

Ion Ratio Lower Upper

146 100

111 42.9 29.5 54.9

148 63.0 44.4 82.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

