

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU032719\  
 Data File : VU030474.D  
 Acq On : 27 Mar 2019 11:34  
 Operator : JC/SP  
 Sample : K2063-13  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB6S0

Quant Time: Mar 28 01:53:59 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Mar 28 01:25:46 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 373712   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 356860   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 154331   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 158729   | 52.78    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 105.56% |
| 7) Chloroethane-d5             | 1.68    | 69    | 131933   | 55.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 110.68% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 231535   | 40.58    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 81.16%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 301178   | 106.53   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 106.53% |
| 24) Chloroform-d               | 4.64    | 84    | 284232   | 54.85    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 109.70% |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 194321   | 57.31    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 114.62% |
| 32) Benzene-d6                 | 5.34    | 84    | 572093   | 55.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 111.80% |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 204091   | 58.29    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 116.58% |
| 41) Toluene-d8                 | 7.56    | 98    | 493385   | 53.68    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 107.36% |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 90714    | 55.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 110.20% |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 189216   | 99.72    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 99.72%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 271056   | 54.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 108.20% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 173969   | 56.26    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 112.52% |

## Target Compounds

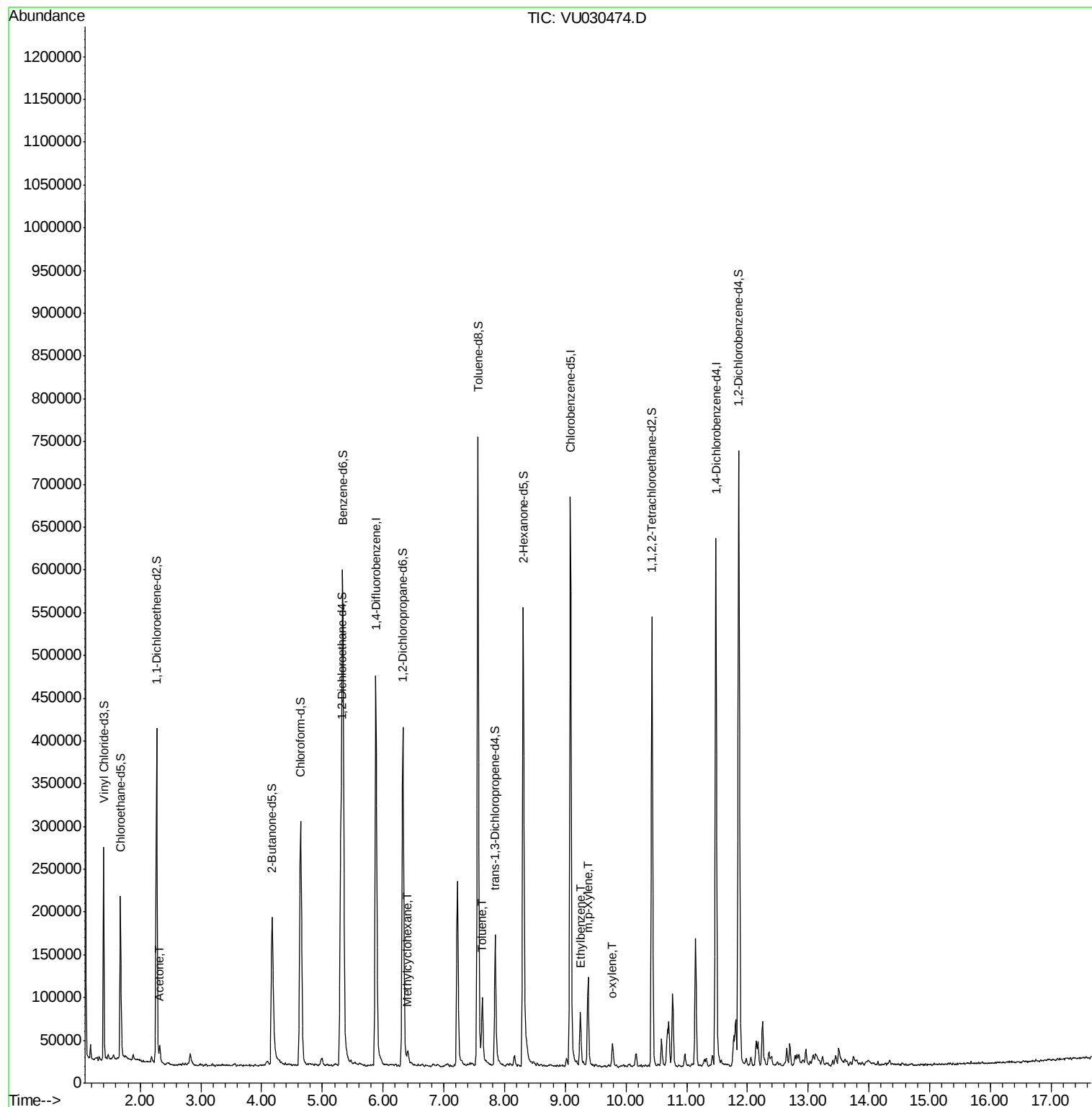
|                       |      |     |       |              | Ovalue |
|-----------------------|------|-----|-------|--------------|--------|
| 13) Acetone           | 2.32 | 43  | 19024 | 6.654 ug/L   | 99     |
| 35) Methylcyclohexane | 6.41 | 83  | 6045  | 1.230 ug/L # | 75     |
| 42) Toluene           | 7.64 | 91  | 56401 | 4.474 ug/L   | 100    |
| 52) Ethylbenzene      | 9.25 | 91  | 44823 | 3.282 ug/L   | 98     |
| 53) m,p-Xylene        | 9.38 | 106 | 30190 | 6.122 ug/L   | 98     |
| 54) o-xylene          | 9.78 | 106 | 7219  | 1.500 ug/L   | 99     |

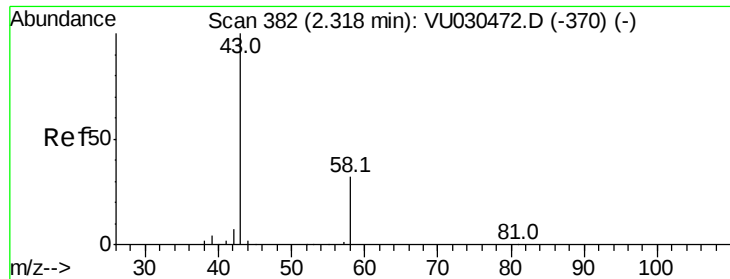
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 28 01:53:59 2019  
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Quant Title : VOC Analysis  
QLast Update : Thu Mar 28 01:25:46 2019  
Response via : Initial Calibration





#13

Acetone

Concen: 6.654 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VU030474.D

Acq: 27 Mar 2019 11:34

Instrument :

MSVOA\_U

ClientSampleId :

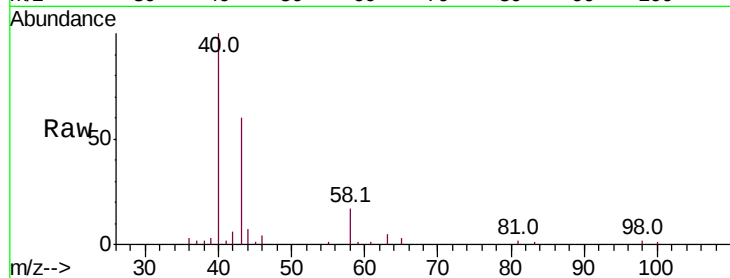
DB6S0

Tot Ion: 43 Resp: 19024

Ion Ratio Lower Upper

43 100

58 30.8 0.0 62.8



Abundance Ion 43.00 (42.70 to 43.70): VU030474.D (-370) (-)

Ion 58.00 (57.70 to 58.70): VU030474.D (-370) (-)

2.32

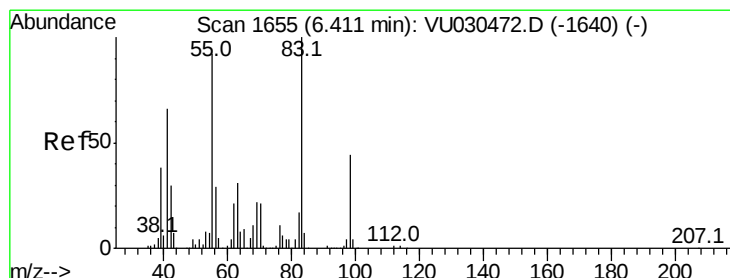
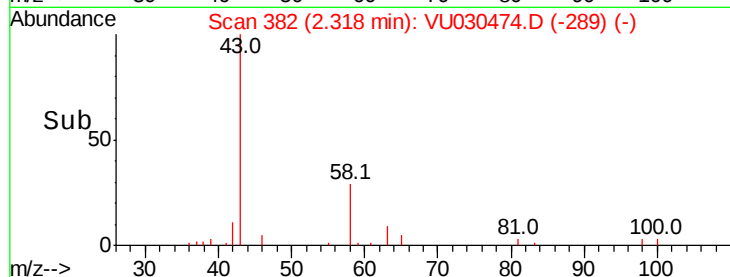
10000

5000

0

Time-->

2.30 2.35



#35

Methylcyclohexane

Concen: 1.230 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VU030474.D

Acq: 27 Mar 2019 11:34

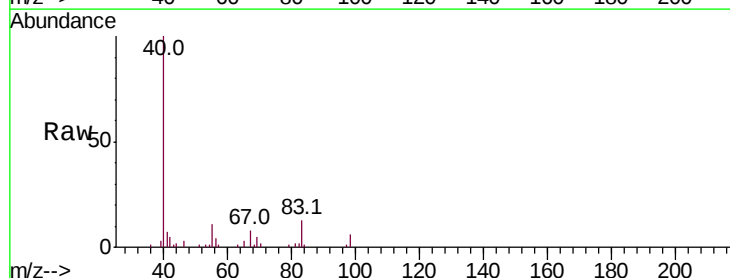
Tgt Ion: 83 Resp: 6045

Ion Ratio Lower Upper

83 100

55 56.8 71.4 107.0#

98 40.7 36.0 54.0



Abundance Ion 83.00 (82.70 to 83.70): VU030474.D (-1562) (-)

Ion 55.00 (54.70 to 55.70): VU030474.D (-1562) (-)

Ion 98.00 (97.70 to 98.70): VU030474.D (-1562) (-)

15000

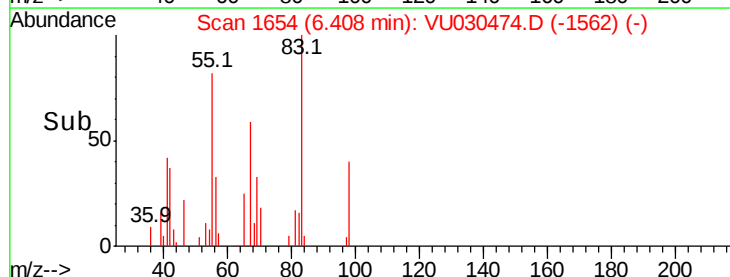
10000

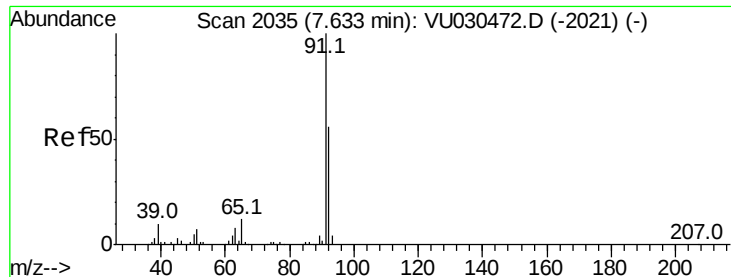
5000

0

Time-->

6.35 6.40 6.45





#42

Toluene

Concen: 4.474 ug/L

RT: 7.64 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VU030474.D

Acq: 27 Mar 2019 11:34

Instrument :

MSVOA\_U

ClientSampleId :

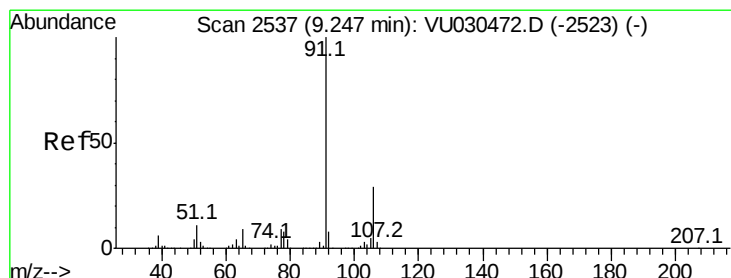
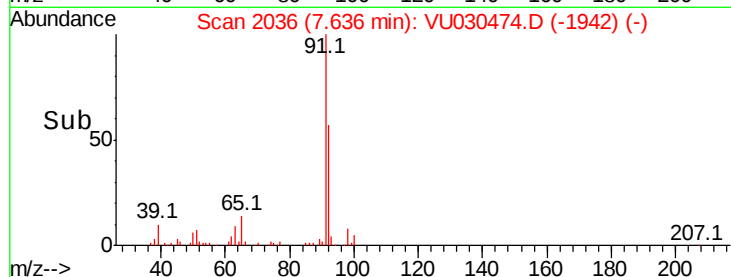
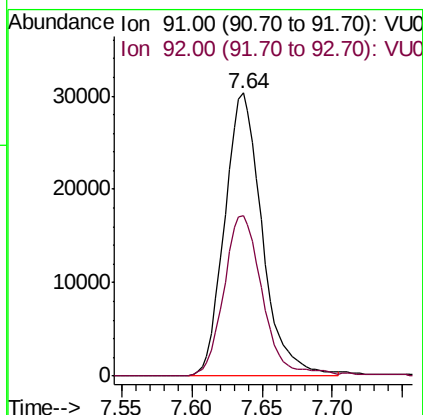
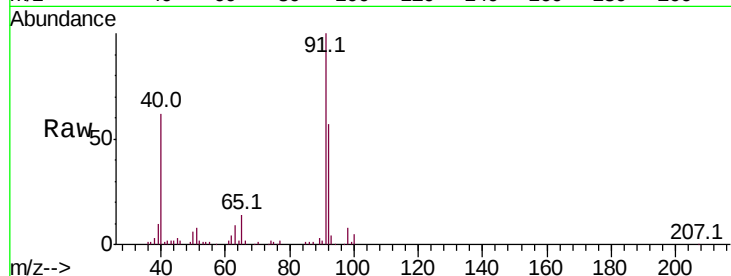
DB6S0

Tot Ion: 91 Resp: 56401

Ion Ratio Lower Upper

91 100

92 56.6 39.7 73.7



#52

Ethylbenzene

Concen: 3.282 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU030474.D

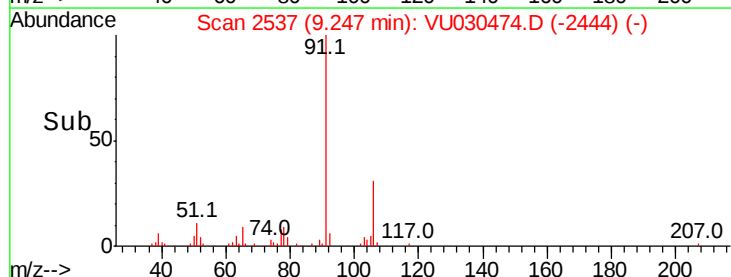
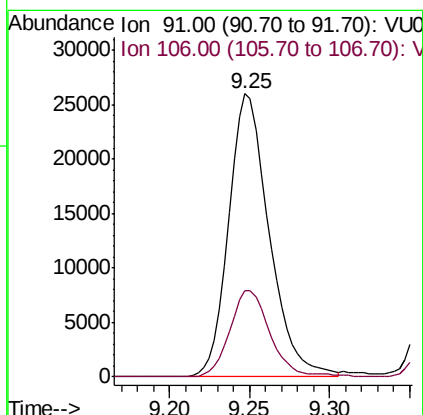
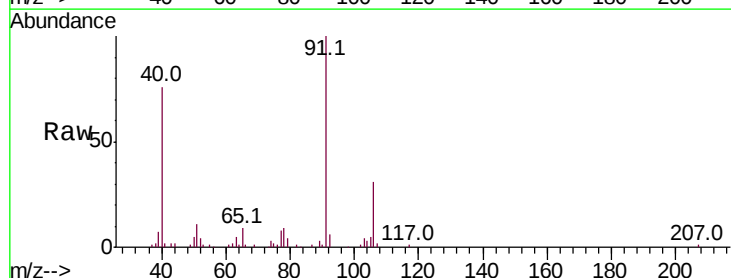
Acq: 27 Mar 2019 11:34

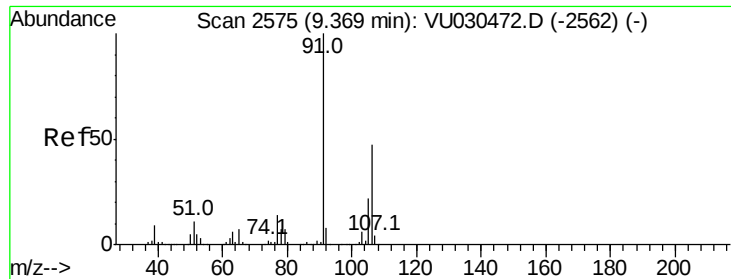
Tgt Ion: 91 Resp: 44823

Ion Ratio Lower Upper

91 100

106 30.7 20.6 38.2





#53

m,p-Xylene

Concen: 6.122 ug/L

RT: 9.38 min Scan# 2577

Delta R.T. 0.01 min

Lab File: VU030474.D

Acq: 27 Mar 2019 11:34

Instrument :

MSVOA\_U

ClientSampled :

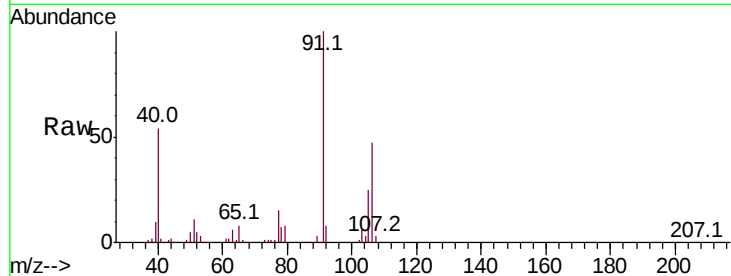
DB6S0

Tot Ion:106 Resp: 30190

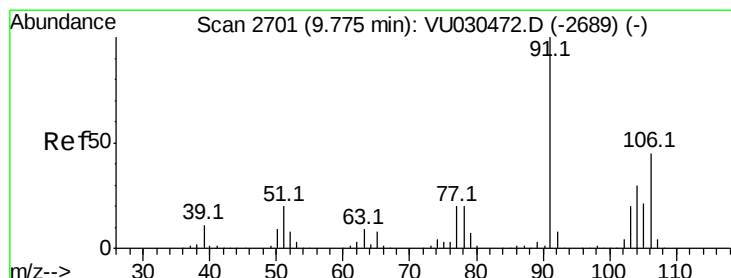
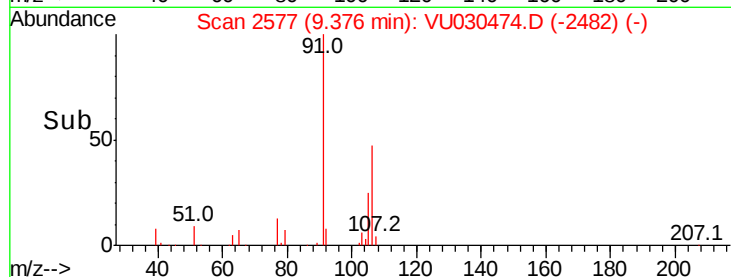
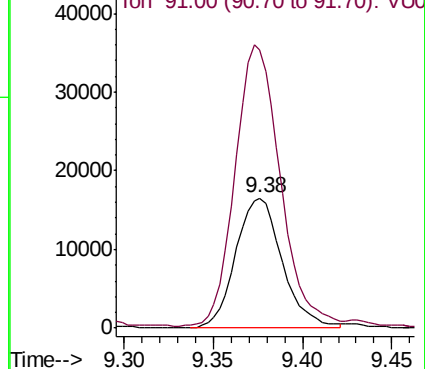
Ion Ratio Lower Upper

106 100

91 212.9 151.2 280.8



Abundance Ion 106.00 (105.70 to 106.70): V



#54

o-xylene

Concen: 1.500 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU030474.D

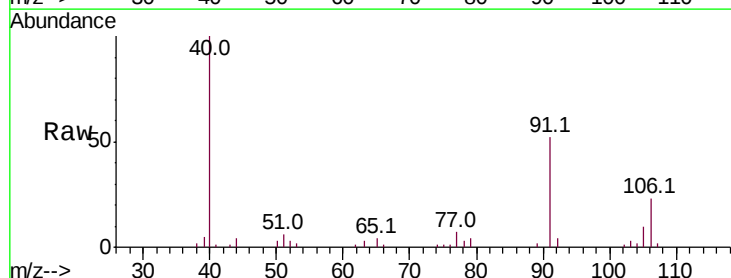
Acq: 27 Mar 2019 11:34

Tgt Ion:106 Resp: 7219

Ion Ratio Lower Upper

106 100

91 229.3 159.6 296.4



Abundance Ion 106.00 (105.70 to 106.70): V

