

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU043019\  
 Data File : VU031663.D  
 Acq On : 01 May 2019 03:21  
 Operator : JC/SP  
 Sample : K2604-06 5X  
 Misc : 5.01g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 GAJ80

Quant Time: May 20 04:24:00 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed May 01 04:42:38 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 972533   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 941563   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 435603   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 316930   | 38.94    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 77.88%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 239366   | 38.06    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 76.12%  |
| 11) 1,1-Dichloroethene-d2      | 2.26    | 63    | 470655   | 29.04    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 58.08%# |
| 21) 2-Butanone-d5              | 4.20    | 46    | 643291   | 87.23    | ug/L | 0.01    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 87.23%  |
| 24) Chloroform-d               | 4.64    | 84    | 557547   | 37.40    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 74.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 383696   | 39.40    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 78.80%  |
| 32) Benzene-d6                 | 5.33    | 84    | 1143561  | 39.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 79.10%  |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 406090   | 39.92    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 79.84%  |
| 41) Toluene-d8                 | 7.56    | 98    | 969548   | 38.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 77.00%# |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 161298   | 36.94    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 73.88%  |
| 47) 2-Hexanone-d5              | 8.32    | 63    | 417269   | 94.77    | ug/L | 0.01    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 94.77%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 531345   | 38.92    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 77.84%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 357741   | 39.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 78.10%# |

## Target Compounds

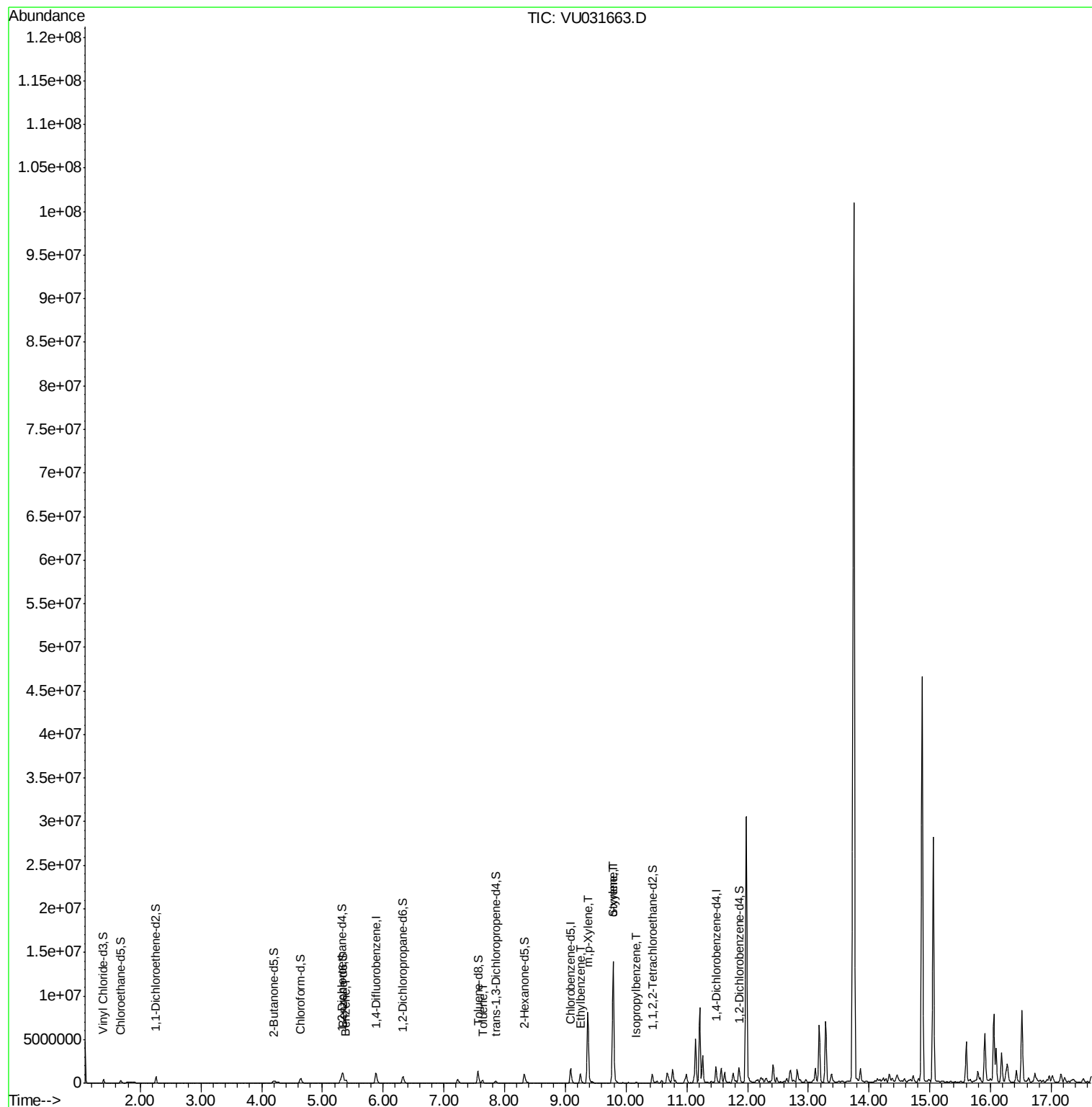
|                      |       |     |         |         | Ovalue   |
|----------------------|-------|-----|---------|---------|----------|
| 33) Benzene          | 5.39  | 78  | 302426  | 8.736   | ug/L 100 |
| 42) Toluene          | 7.64  | 91  | 197160  | 5.718   | ug/L 99  |
| 52) Ethylbenzene     | 9.25  | 91  | 800422  | 22.377  | ug/L 99  |
| 53) m,p-Xylene       | 9.37  | 106 | 2206031 | 177.009 | ug/L 99  |
| 54) o-xylene         | 9.78  | 106 | 943279  | 76.344  | ug/L 99  |
| 55) Styrene          | 9.79  | 104 | 5664955 | 268.363 | ug/L 97  |
| 56) Isopropylbenzene | 10.17 | 105 | 30457   | 0.937   | ug/L 99  |

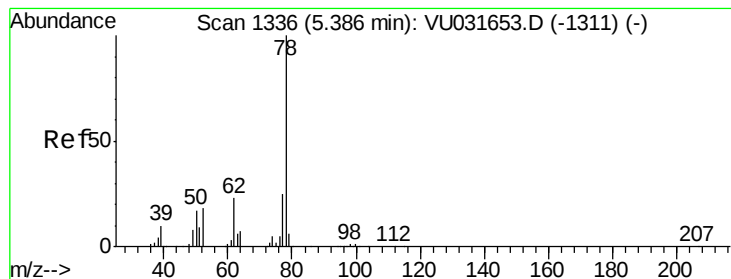
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#33

Benzene

Concen: 8.736 ug/L

RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU031663.D

Acq: 01 May 2019 03:21

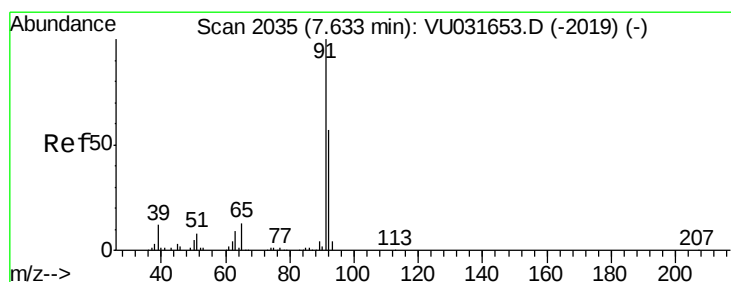
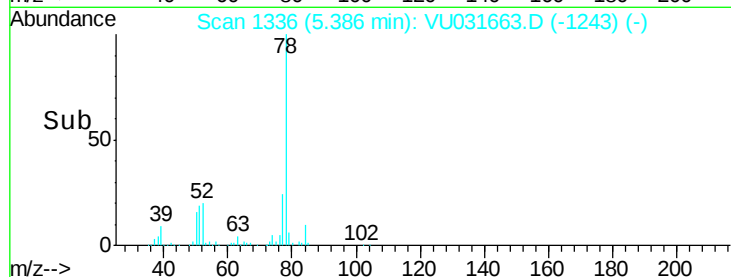
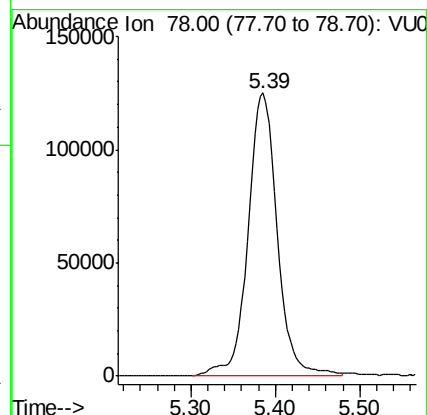
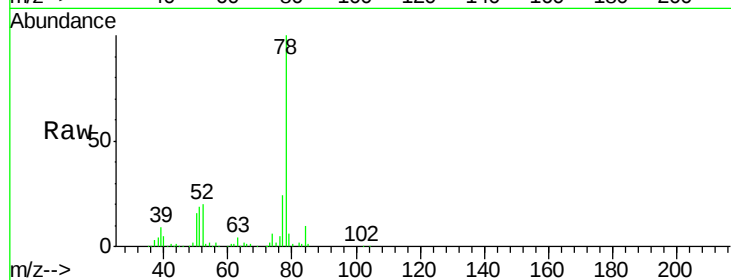
Instrument :

MSVOA\_U

ClientSampleId :

GAJ80

Tgt Ion: 78 Resp: 302426



#42

Toluene

Concen: 5.718 ug/L

RT: 7.64 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VU031663.D

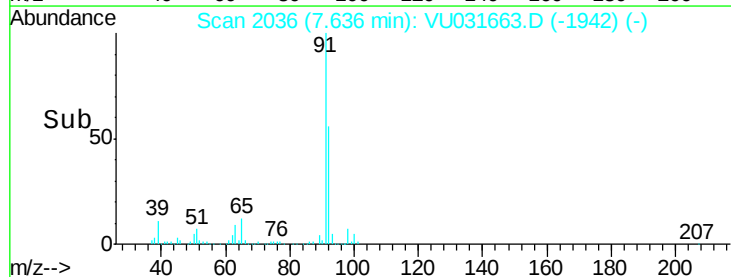
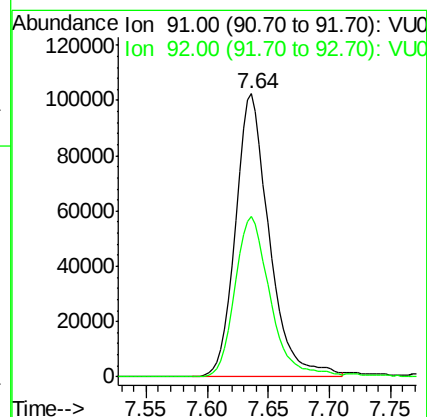
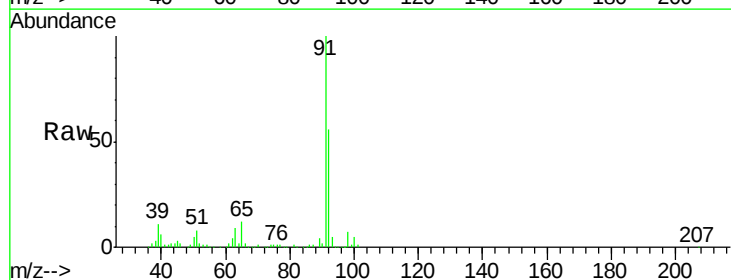
Acq: 01 May 2019 03:21

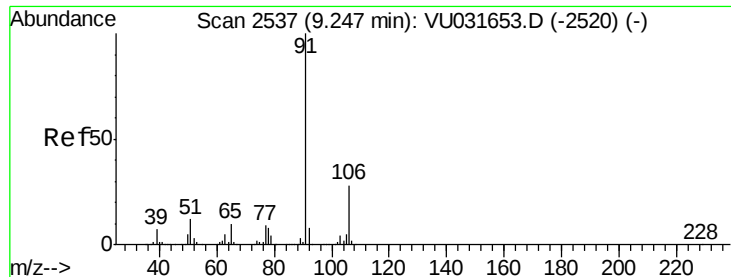
Tgt Ion: 91 Resp: 197160

Ion Ratio Lower Upper

91 100

92 56.5 39.0 72.4





#52

Ethylbenzene

Concen: 22.377 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU031663.D

Acq: 01 May 2019 03:21

Instrument :

MSVOA\_U

ClientSampleId :

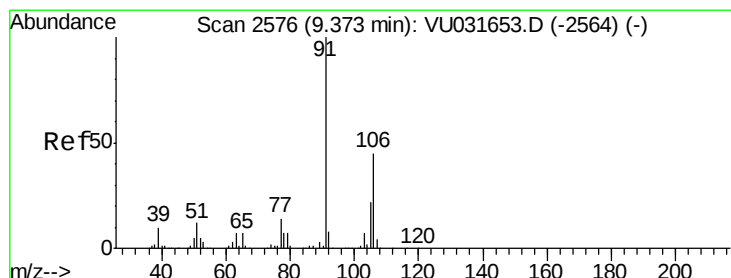
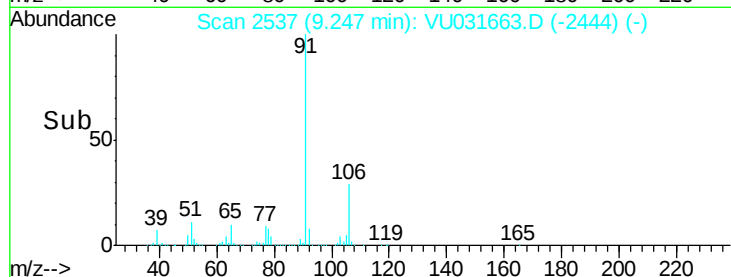
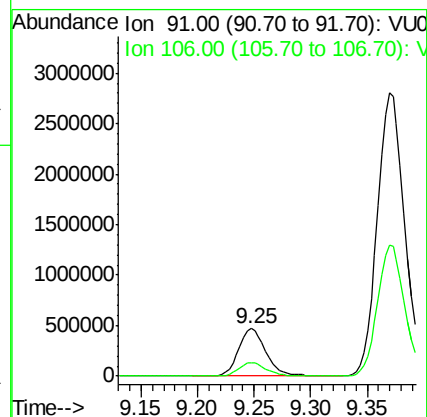
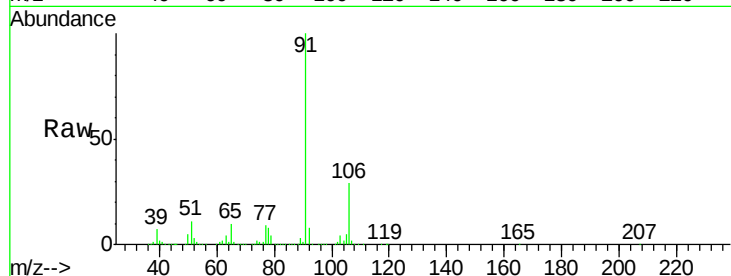
GAJ80

Tot Ion: 91 Resp: 800422

Ion Ratio Lower Upper

91 100

106 28.8 20.4 37.8



#53

m,p-Xylene

Concen: 177.009 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU031663.D

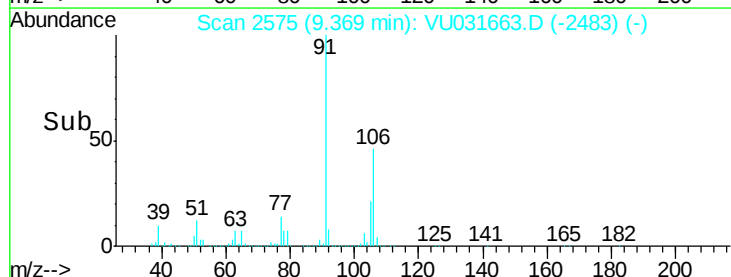
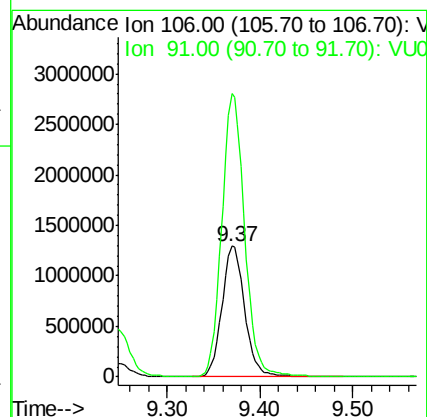
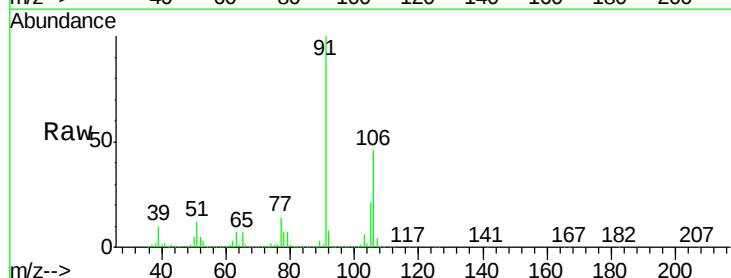
Acq: 01 May 2019 03:21

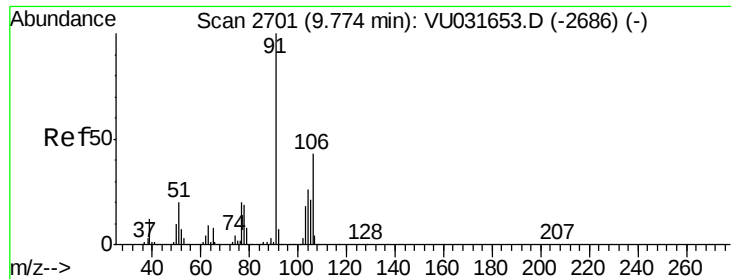
Tgt Ion: 106 Resp: 2206031

Ion Ratio Lower Upper

106 100

91 216.1 152.2 282.6





#54

o-xylene

Concen: 76.344 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU031663.D

Acq: 01 May 2019 03:21

Instrument :

MSVOA\_U

ClientSampleId :

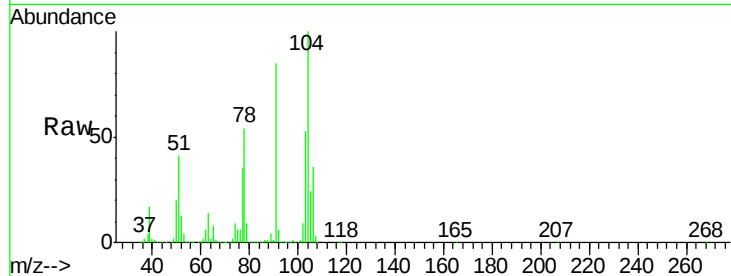
GAJ80

Tot Ion:106 Resp: 943279

Ion Ratio Lower Upper

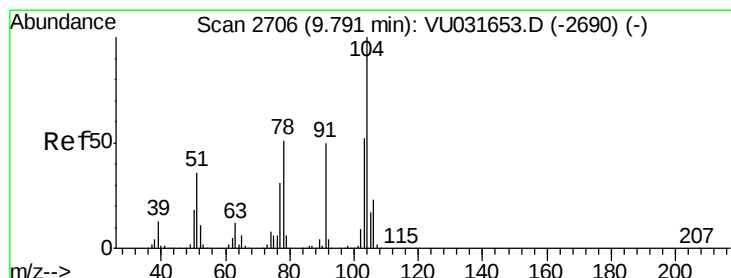
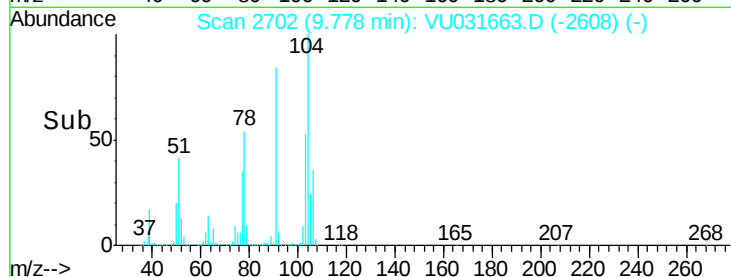
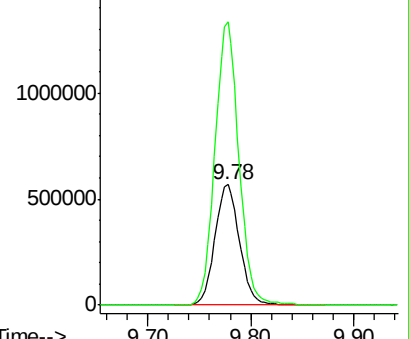
106 100

91 235.3 163.2 303.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 268.363 ug/L

RT: 9.79 min Scan# 2706

Delta R.T. 0.00 min

Lab File: VU031663.D

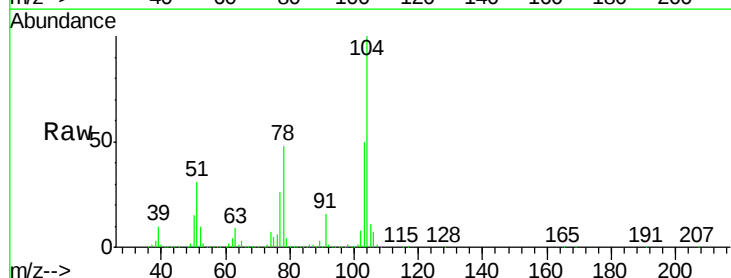
Acq: 01 May 2019 03:21

Tgt Ion:104 Resp: 5664955

Ion Ratio Lower Upper

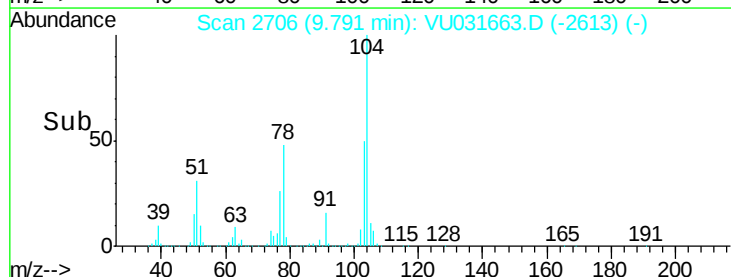
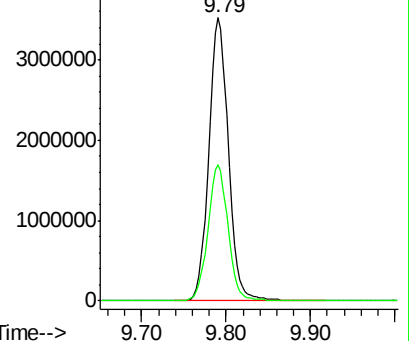
104 100

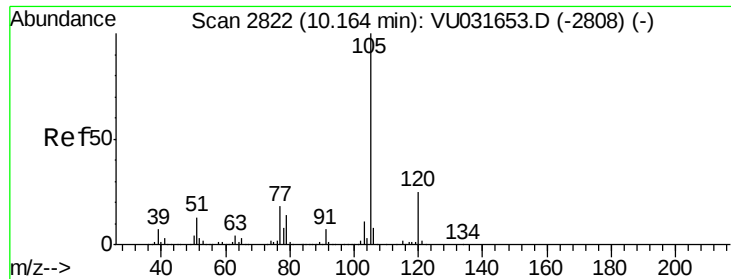
78 48.2 35.4 65.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 0.937 ug/L

RT: 10.17 min Scan# 2823

Delta R.T. 0.00 min

Lab File: VU031663.D

Acq: 01 May 2019 03:21

Instrument :

MSVOA\_U

ClientSampleId :

GAJ80

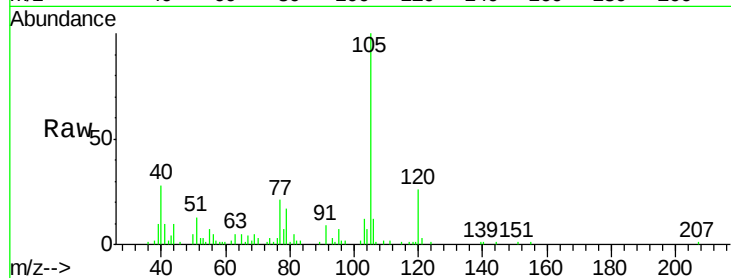
Tot Ion:105 Resp: 30457

Ion Ratio Lower Upper

105 100

120 25.2 20.1 30.1

77 17.8 13.8 20.6



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): VU

