

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062019\  
 Data File : VU032903.D  
 Acq On : 20 Jun 2019 15:26  
 Operator : JC/SP  
 Sample : K3413-19DL 200X  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 GALG7DL

Quant Time: Jun 21 07:27:51 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR060419WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Jun 21 05:28:00 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 83522    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.08  | 117  | 82686    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 45804    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 22464    | 4.14     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 82.80%   |
| 7) Chloroethane-d5             | 1.68   | 69    | 20602    | 4.44     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 88.80%   |
| 11) 1,1-Dichloroethene-d2      | 2.27   | 63    | 37112    | 3.37     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 67.40%   |
| 20) 2-Butanone-d5              | 4.19   | 46    | 98267    | 64.84    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 129.68%  |
| 24) Chloroform-d               | 4.64   | 84    | 55314    | 5.63     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 112.60%  |
| 26) 1,2-Dichloroethane-d4      | 5.30   | 65    | 33367    | 6.57     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 131.40%# |
| 32) Benzene-d6                 | 5.33   | 84    | 100591   | 4.89     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.80%   |
| 36) 1,2-Dichloropropane-d6     | 6.32   | 67    | 33810    | 5.34     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 106.80%  |
| 41) Toluene-d8                 | 7.56   | 98    | 90905    | 4.78     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 95.60%   |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 14118    | 5.21     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 104.20%  |
| 46) 2-Hexanone-d5              | 8.31   | 63    | 75250    | 55.47    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 110.94%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 31257    | 5.85     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 117.00%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.85  | 152   | 42246    | 5.13     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 102.60%  |

## Target Compounds

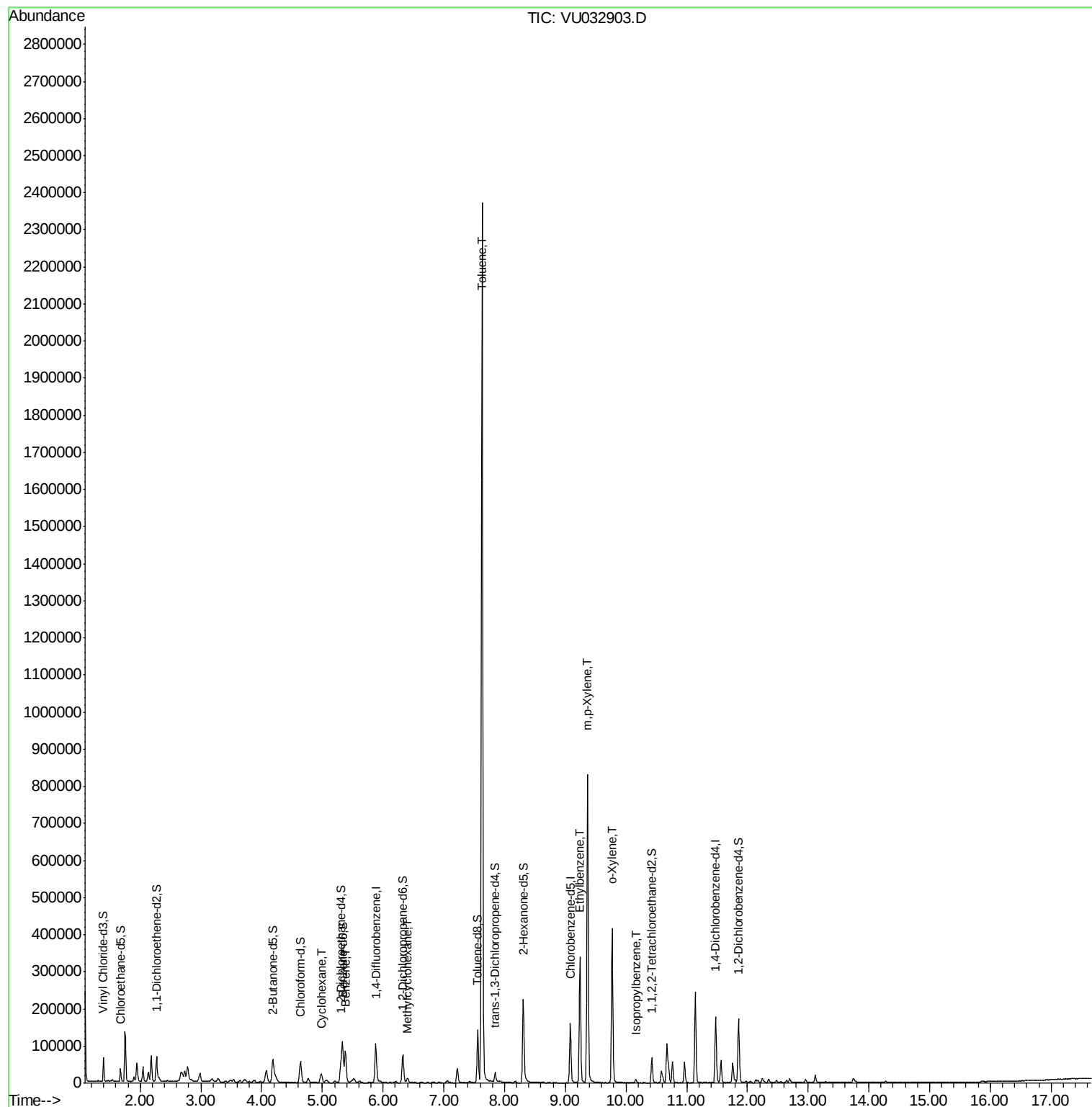
| Target Compounds      | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|-----------------------|-------|------|----------|--------|--------|--------|
| 30) Cyclohexane       | 4.98  | 56   | 11407    | 1.071  | ug/L   | 92     |
| 33) Benzene           | 5.38  | 78   | 79589    | 3.265  | ug/L   | 100    |
| 35) Methylcyclohexane | 6.40  | 83   | 4412     | 0.391  | ug/L # | 82     |
| 42) Toluene           | 7.63  | 91   | 1615804  | 59.470 | ug/L   | 98     |
| 52) Ethylbenzene      | 9.24  | 91   | 229729   | 7.672  | ug/L   | 98     |
| 53) m,p-Xylene        | 9.37  | 106  | 220379   | 19.413 | ug/L   | 96     |
| 54) o-Xylene          | 9.77  | 106  | 106173   | 9.371  | ug/L   | 96     |
| 56) Isopropylbenzene  | 10.16 | 105  | 5726     | 0.192  | ug/L   | 96     |

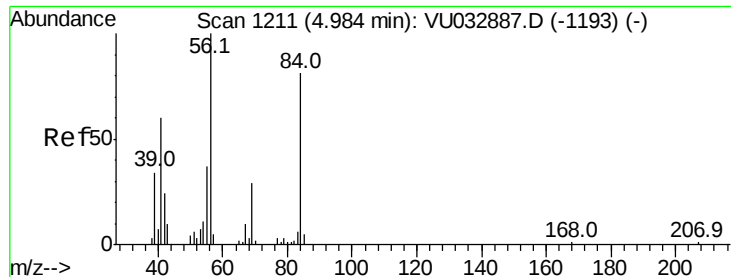
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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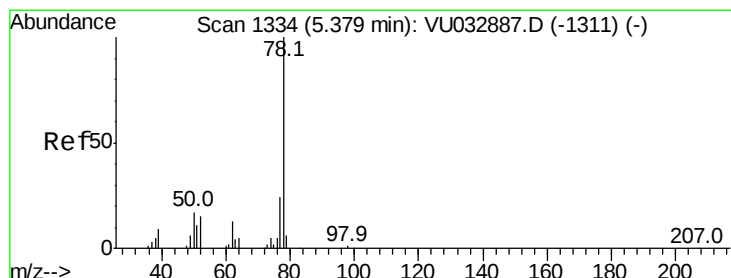
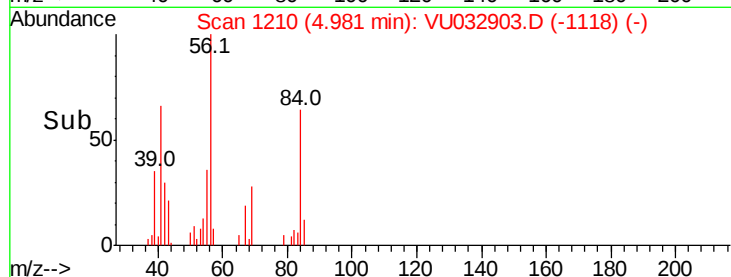
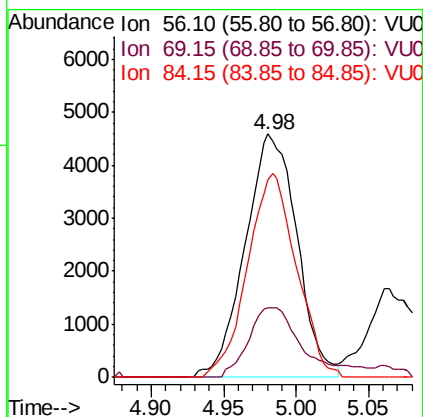
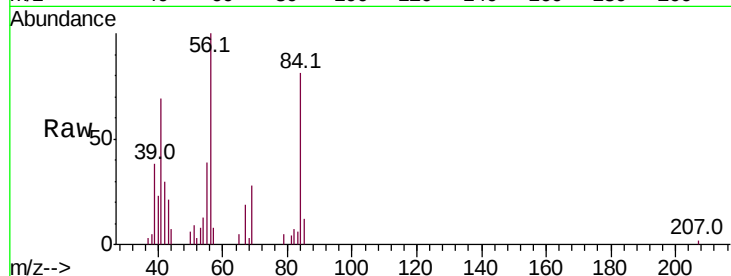




#30  
Cyclohexane  
Concen: 1.071 ug/L  
RT: 4.98 min Scan# 1210  
Delta R.T. -0.00 min  
Lab File: VU032903.D  
Acq: 20 Jun 2019 15:26

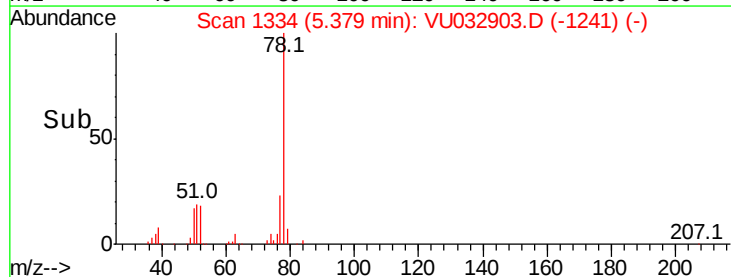
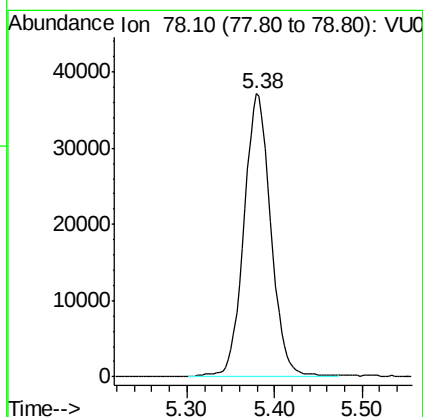
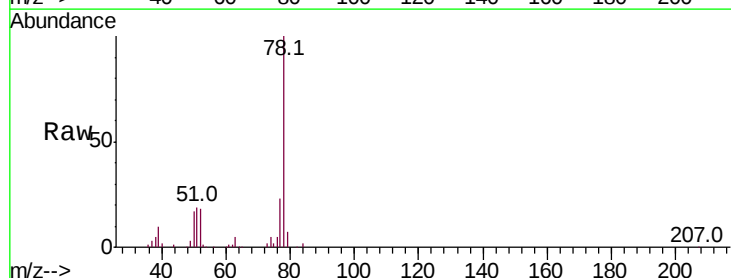
Instrument :  
MSVOA\_U  
ClientSampleId :  
GALG7DL

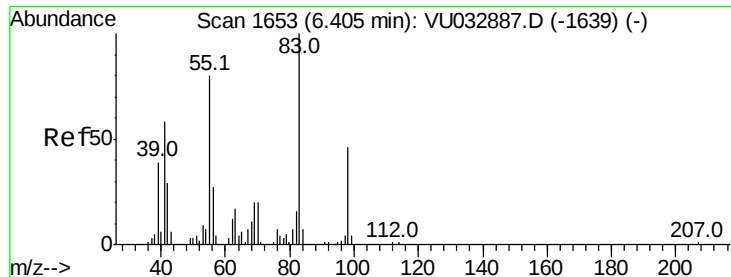
Tot Ion: 56 Resp: 11407  
Ion Ratio Lower Upper  
56 100  
69 28.3 24.9 37.3  
84 78.9 70.2 105.2



#33  
Benzene  
Concen: 3.265 ug/L  
RT: 5.38 min Scan# 1334  
Delta R.T. 0.00 min  
Lab File: VU032903.D  
Acq: 20 Jun 2019 15:26

Tgt Ion: 78 Resp: 79589





#35

Methvlcvclohexane

Concen: 0.391 ug/L

RT: 6.40 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VU032903.D

Acq: 20 Jun 2019 15:26

Instrument :

MSVOA\_U

ClientSampleId :

GALG7DL

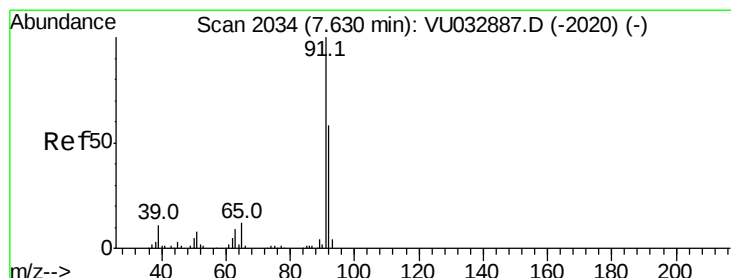
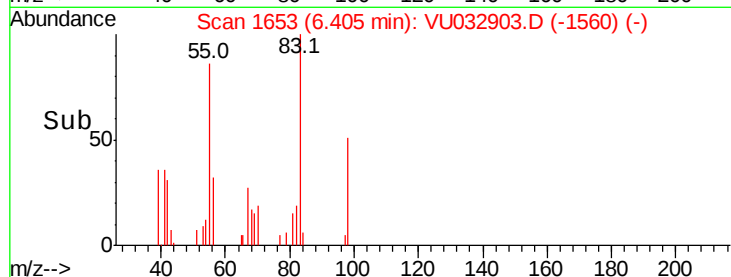
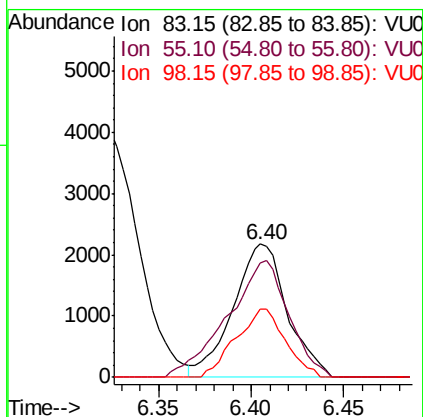
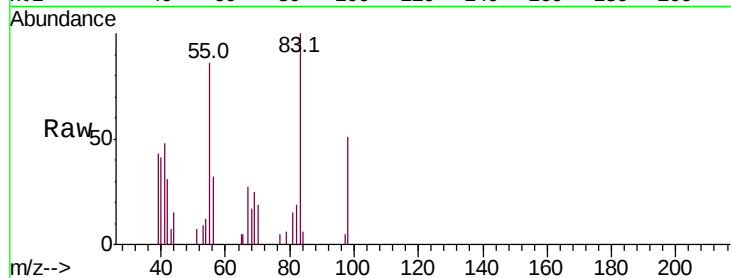
Tot Ion: 83 Resp: 4412

Ion Ratio Lower Upper

83 100

55 98.9 60.0 90.0#

98 46.7 37.8 56.8



#42

Toluene

Concen: 59.470 ug/L

RT: 7.63 min Scan# 2034

Delta R.T. 0.00 min

Lab File: VU032903.D

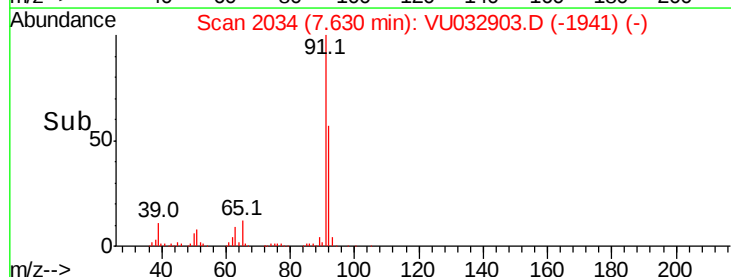
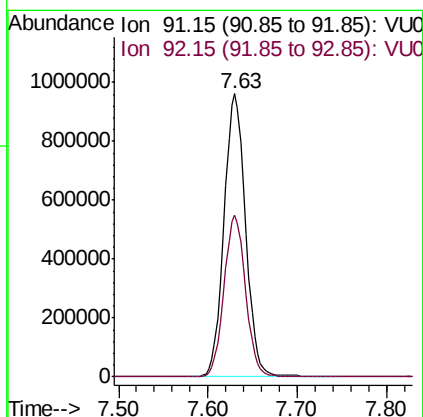
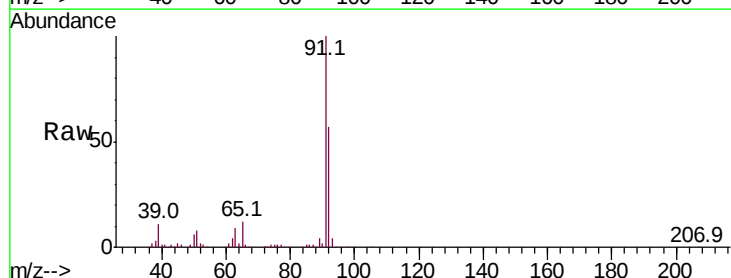
Acq: 20 Jun 2019 15:26

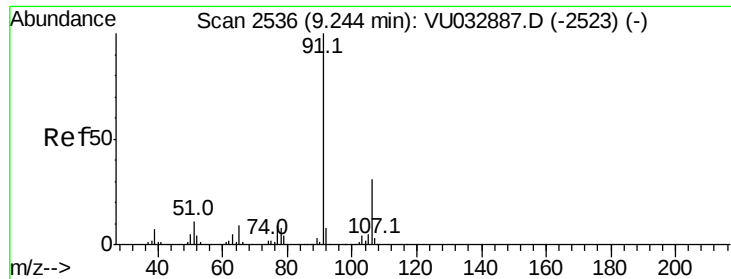
Tgt Ion: 91 Resp: 1615804

Ion Ratio Lower Upper

91 100

92 57.2 40.9 75.9





#52

Ethylbenzene

Concen: 7.672 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. 0.00 min

Lab File: VU032903.D

Acq: 20 Jun 2019 15:26

Instrument :

MSVOA\_U

ClientSampleId :

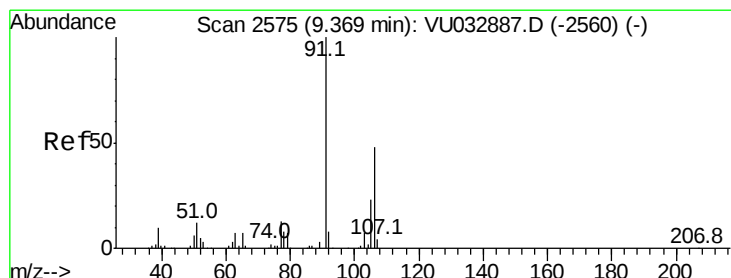
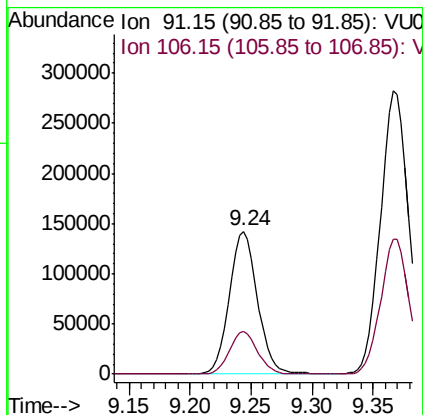
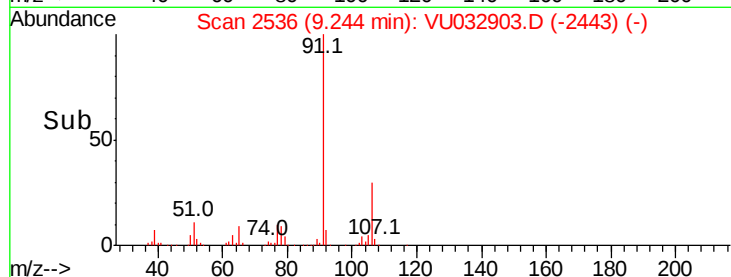
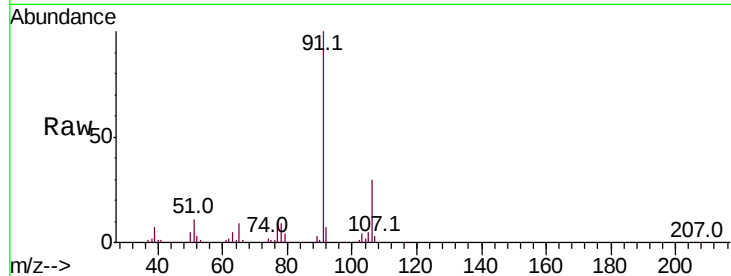
GALG7DL

Tot Ion: 91 Resp: 229729

Ion Ratio Lower Upper

91 100

106 30.1 21.8 40.6



#53

m,p-Xylene

Concen: 19.413 ug/L

RT: 9.37 min Scan# 2574

Delta R.T. -0.00 min

Lab File: VU032903.D

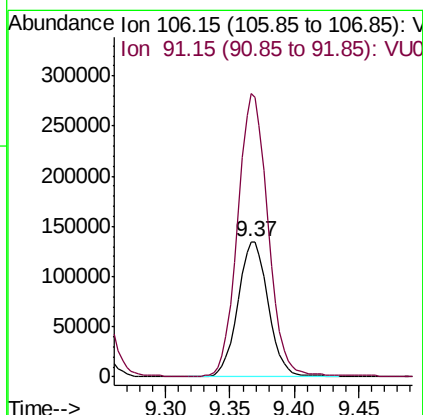
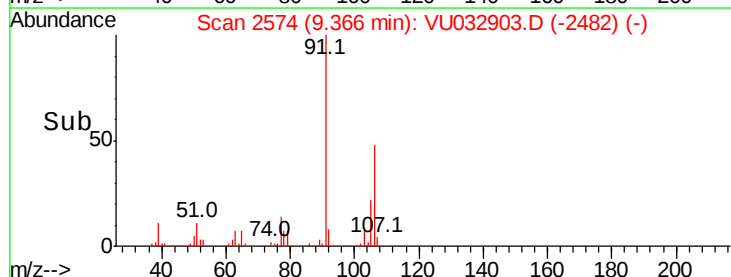
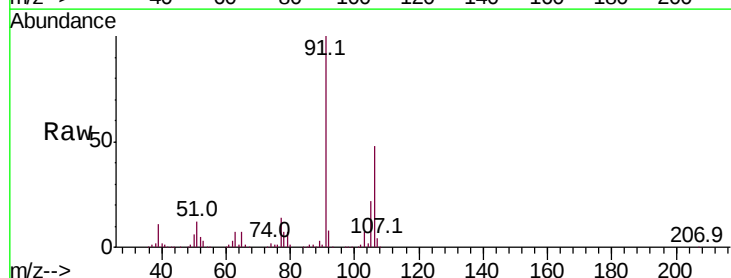
Acq: 20 Jun 2019 15:26

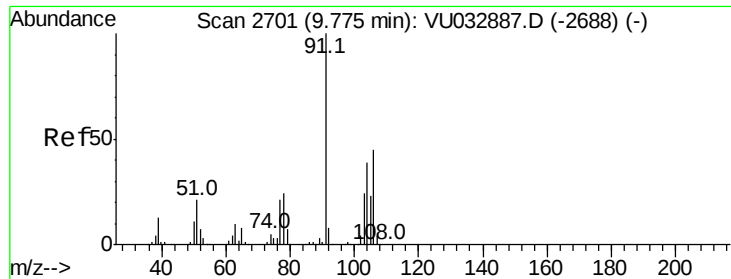
Tgt Ion: 106 Resp: 220379

Ion Ratio Lower Upper

106 100

91 209.0 142.4 264.4

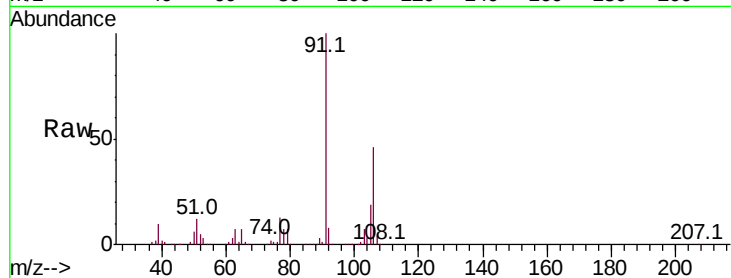




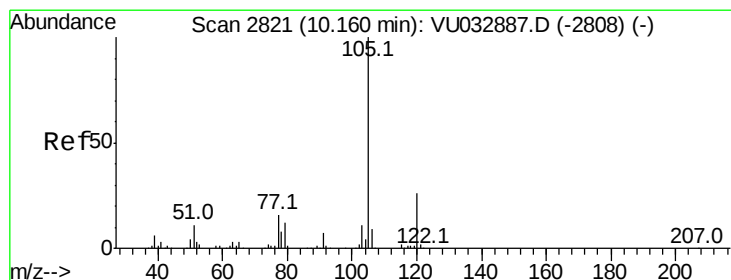
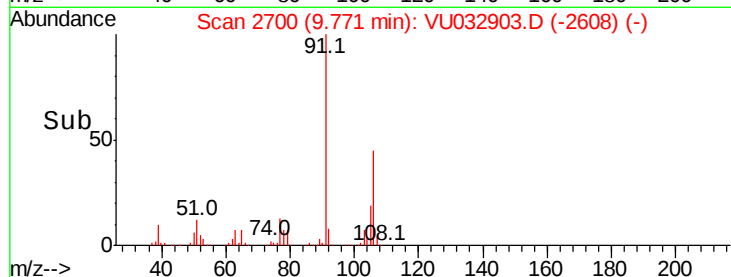
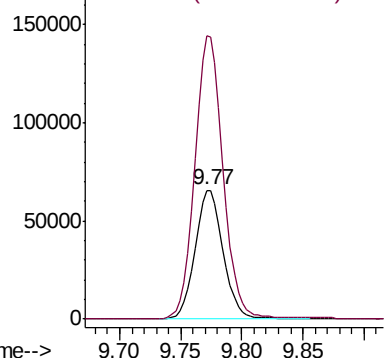
#54  
o-Xylene  
Concen: 9.371 ug/L  
RT: 9.77 min Scan# 2700  
Delta R.T. -0.00 min  
Lab File: VU032903.D  
Acq: 20 Jun 2019 15:26

Instrument :  
MSVOA\_U  
ClientSampleId :  
GALG7DL

Tot Ion:106 Resp: 106173  
Ion Ratio Lower Upper  
106 100  
91 219.5 148.8 276.4

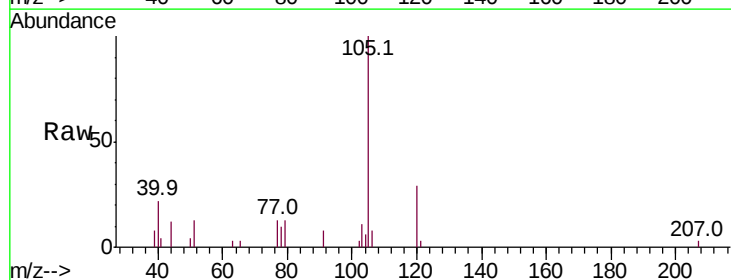


Abundance Ion 106.15 (105.85 to 106.85): V  
Ion 91.15 (90.85 to 91.85): VU0



#56  
Isopropylbenzene  
Concen: 0.192 ug/L  
RT: 10.16 min Scan# 2821  
Delta R.T. 0.00 min  
Lab File: VU032903.D  
Acq: 20 Jun 2019 15:26

Tgt Ion:105 Resp: 5726  
Ion Ratio Lower Upper  
105 100  
120 25.7 21.6 32.4  
77 17.9 12.3 18.5



Abundance Ion 105.05 (104.75 to 105.75): V  
Ion 120.10 (119.80 to 120.80): V  
Ion 77.10 (76.80 to 77.80): VU0

