

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV060920\  
 Data File : VV016751.D  
 Acq On : 10 Jun 2020 05:30  
 Operator : SY/MD  
 Sample : L2914-12 100X  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 58 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 F9E15

Quant Time: Jun 10 06:13:23 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM060820WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Jun 10 06:10:57 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 360071   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 338603   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 169187   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.31    | 65    | 88219    | 34.72    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 69.44% |
| 7) Chloroethane-d5             | 1.56    | 69    | 69147    | 45.36    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 90.72% |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 129285   | 30.30    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 60.60% |
| 21) 2-Butanone-d5              | 3.89    | 46    | 186162   | 99.00    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 99.00% |
| 24) Chloroform-d               | 4.37    | 84    | 226603   | 43.86    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 87.72% |
| 26) 1,2-Dichloroethane-d4      | 5.05    | 65    | 165100   | 46.98    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.96% |
| 32) Benzene-d6                 | 5.07    | 84    | 434546   | 44.52    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.04% |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 136327   | 44.81    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 89.62% |
| 41) Toluene-d8                 | 7.34    | 98    | 382960   | 42.76    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 85.52% |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 61318    | 38.70    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 77.40% |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 125000   | 94.24    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 94.24% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 193428   | 48.02    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 96.04% |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 172789   | 47.86    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 95.72% |

## Target Compounds

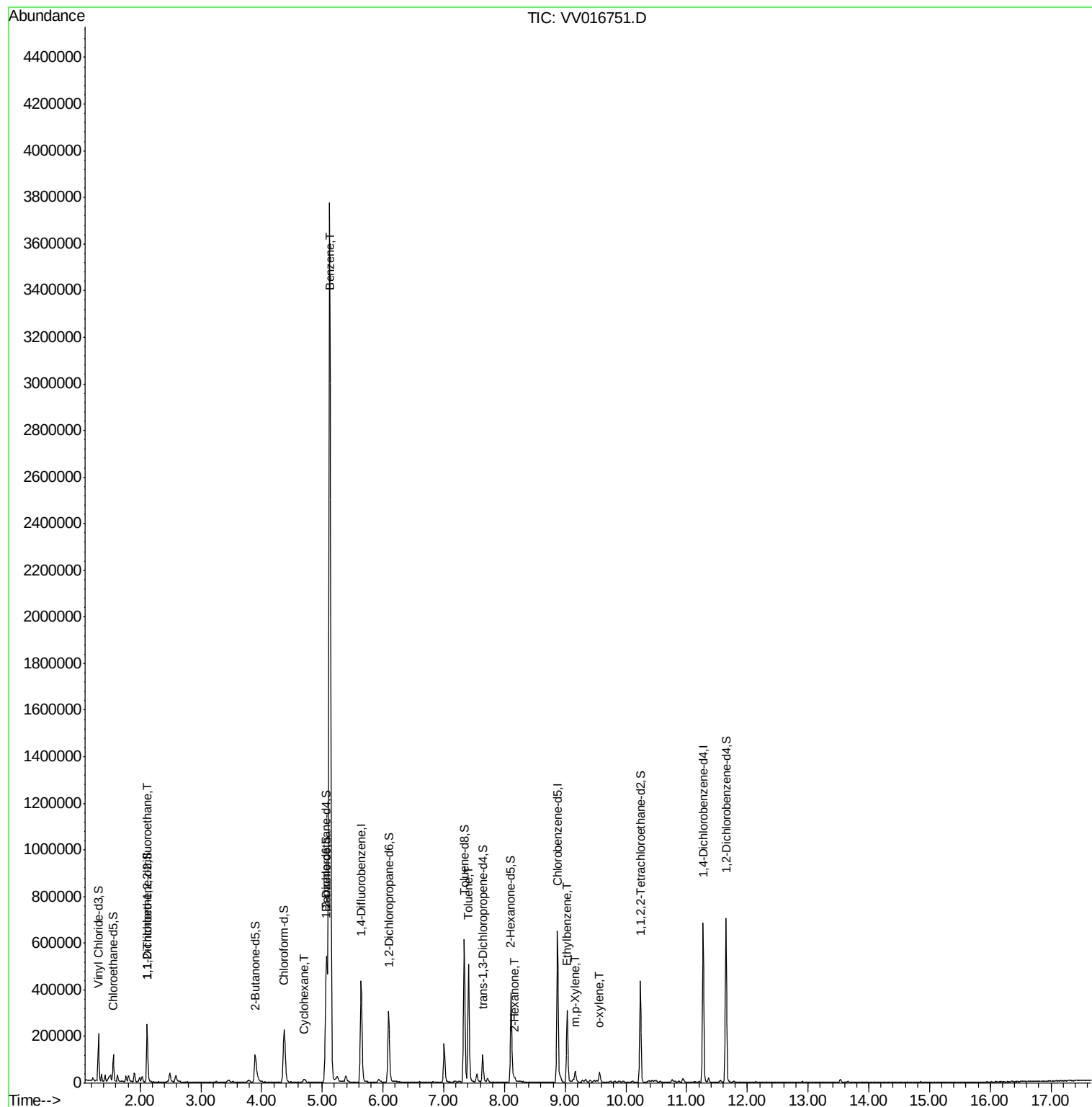
| Target Compounds               | R.T. | QIon | Response | Conc    | Units  | Ovalue |
|--------------------------------|------|------|----------|---------|--------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.12 | 101  | 1295     | 0.676   | ug/L # | 17     |
| 29) Cyclohexane                | 4.70 | 56   | 7366     | 1.751   | ug/L   | 96     |
| 33) Benzene                    | 5.12 | 78   | 3599411  | 359.284 | ug/L   | 100    |
| 42) Toluene                    | 7.41 | 91   | 347344   | 32.889  | ug/L   | 98     |
| 48) 2-Hexanone                 | 8.17 | 43   | 11178    | 3.905   | ug/L # | 89     |
| 52) Ethylbenzene               | 9.03 | 91   | 208724   | 17.843  | ug/L   | 99     |
| 53) m,p-Xylene                 | 9.16 | 106  | 10903    | 2.503   | ug/L   | 98     |
| 54) o-xylene                   | 9.57 | 106  | 10878    | 2.532   | ug/L   | 99     |

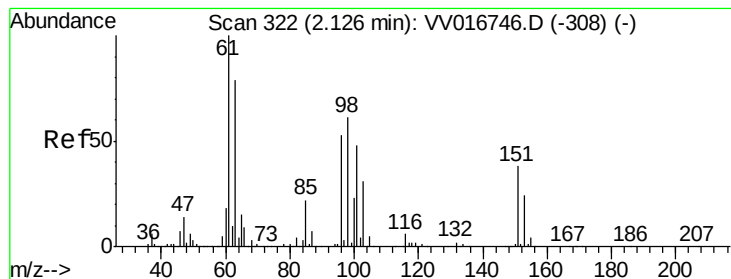
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_V  
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Quant Time: Jun 10 06:13:23 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM060820WMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed Jun 10 06:10:57 2020  
Response via : Initial Calibration





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.676 ug/L

RT: 2.12 min Scan# 319

Delta R.T. -0.01 min

Lab File: VV016751.D

Acq: 10 Jun 2020 05:30

Instrument :

MSVOA\_V

ClientSampleId :

F9E15

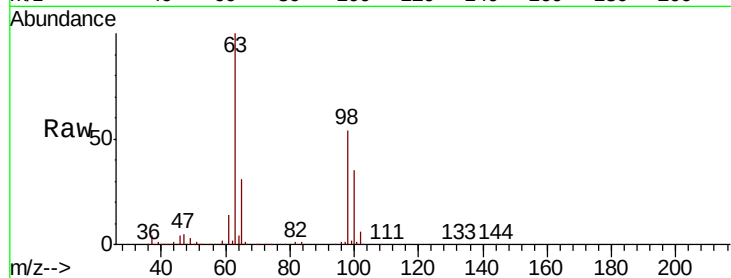
Tot Ion:101 Resp: 1295

Ion Ratio Lower Upper

101 100

85 0.0 35.5 53.3#

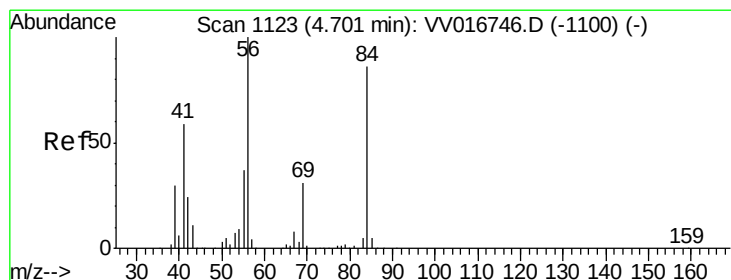
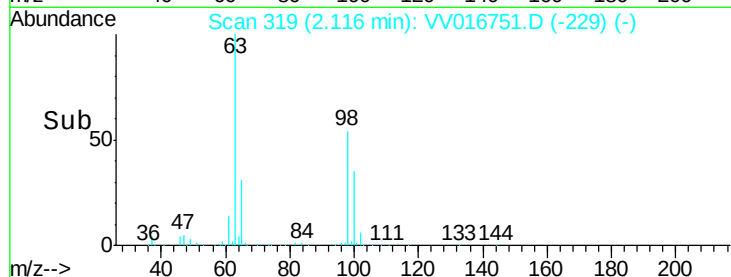
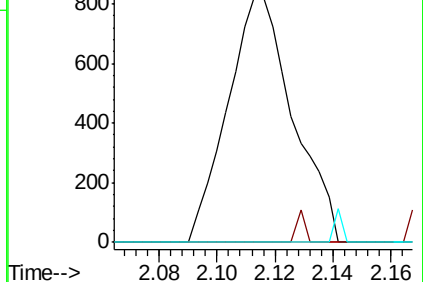
151 0.0 63.9 95.9#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#29

Cyclohexane

Concen: 1.751 ug/L

RT: 4.70 min Scan# 1122

Delta R.T. -0.00 min

Lab File: VV016751.D

Acq: 10 Jun 2020 05:30

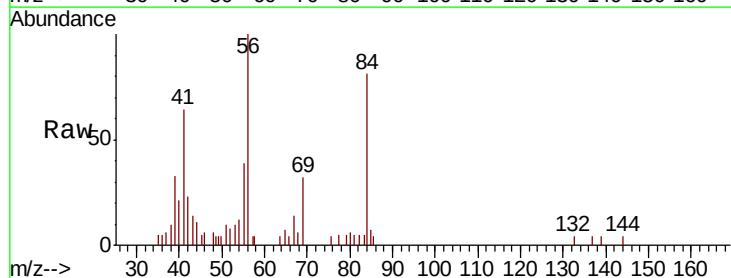
Tgt Ion: 56 Resp: 7366

Ion Ratio Lower Upper

56 100

69 32.4 25.0 37.4

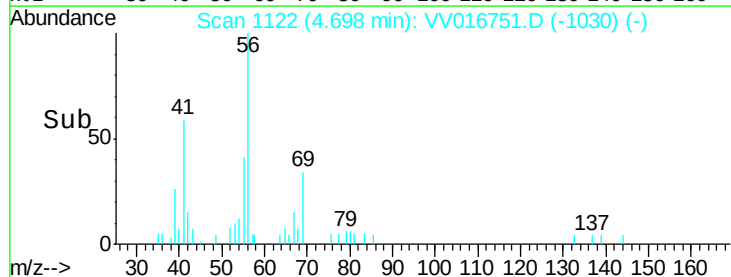
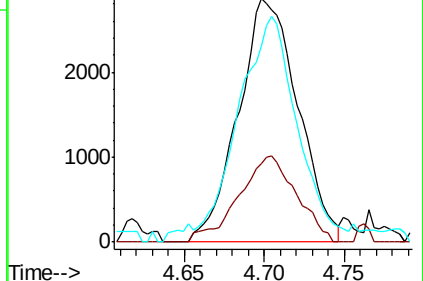
84 91.2 69.5 104.3

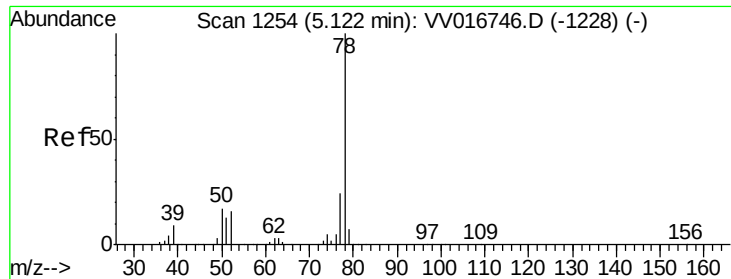


Abundance Ion 56.00 (55.70 to 56.70): VV0

Ion 69.00 (68.70 to 69.70): VV0

Ion 84.00 (83.70 to 84.70): VV0





#33

Benzene

Concen: 359.284 ug/L

RT: 5.12 min Scan# 1254

Delta R.T. 0.00 min

Lab File: VV016751.D

Acq: 10 Jun 2020 05:30

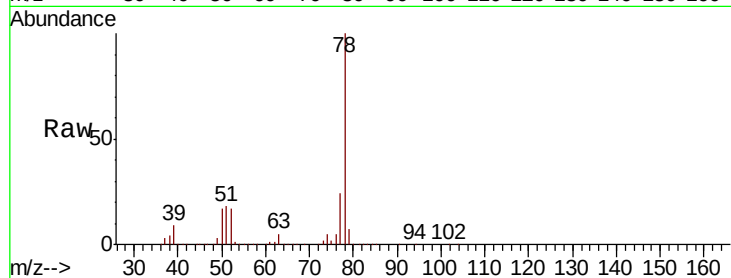
Instrument :

MSVOA\_V

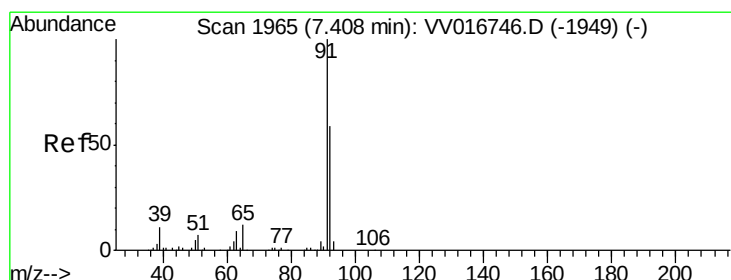
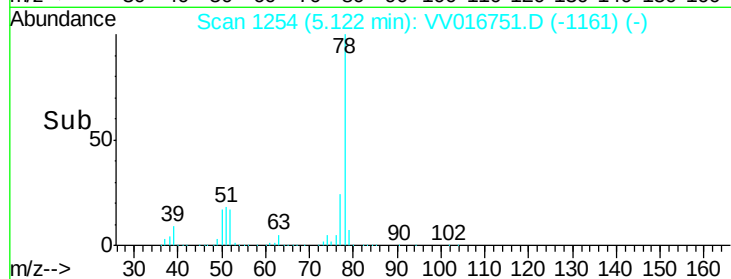
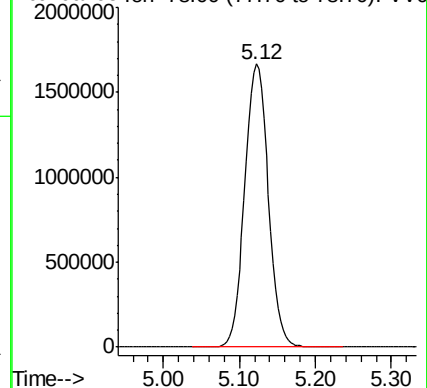
ClientSampled :

F9E15

Tgt Ion: 78 Resp: 3599411



Abundance Ion 78.00 (77.70 to 78.70): VV0



#42

Toluene

Concen: 32.889 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VV016751.D

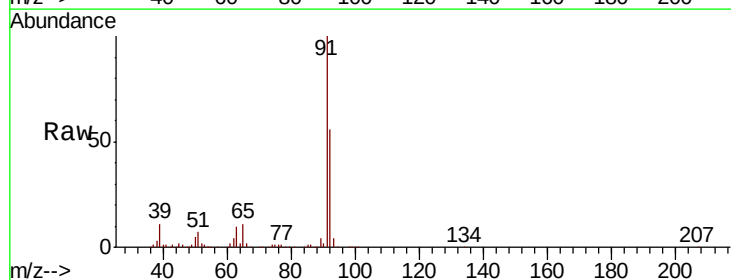
Acq: 10 Jun 2020 05:30

Tgt Ion: 91 Resp: 347344

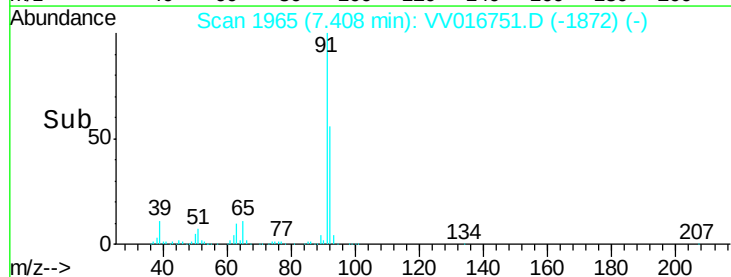
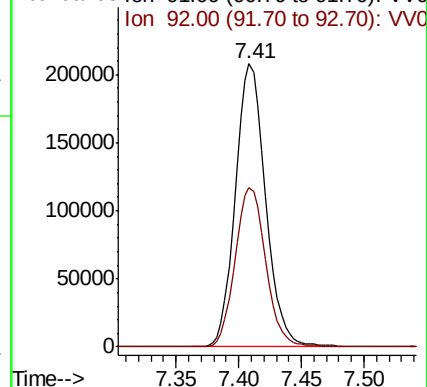
Ion Ratio Lower Upper

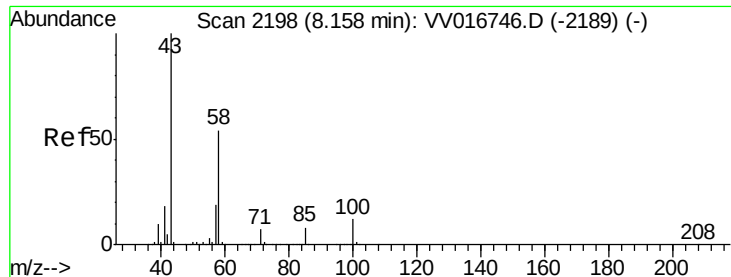
91 100

92 56.4 40.4 75.0



Abundance Ion 91.00 (90.70 to 91.70): VV0

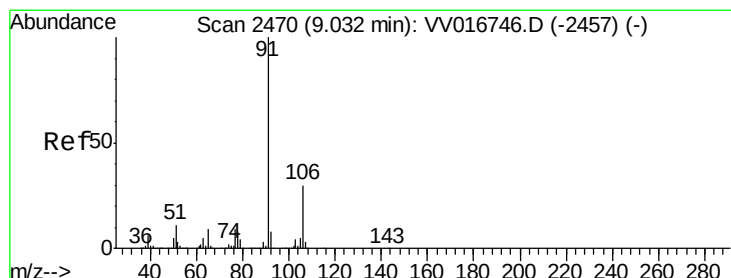
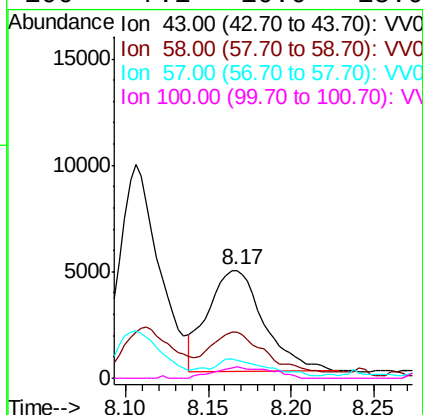
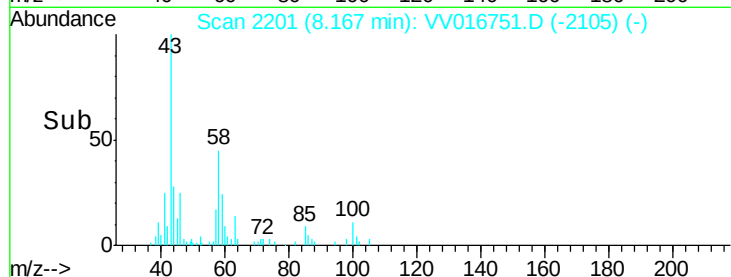
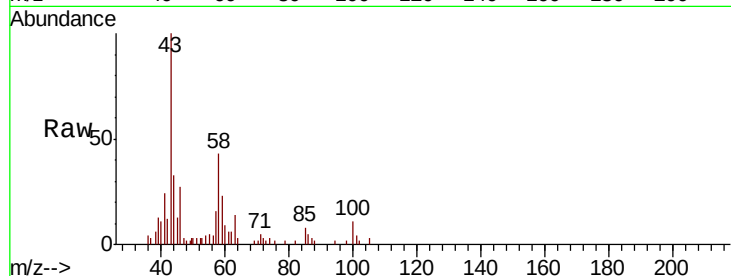




#48  
2-Hexanone  
Concen: 3.905 ug/L  
RT: 8.17 min Scan# 2201  
Delta R.T. 0.01 min  
Lab File: VV016751.D  
Acq: 10 Jun 2020 05:30

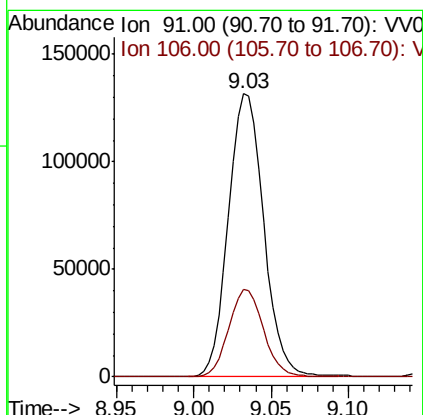
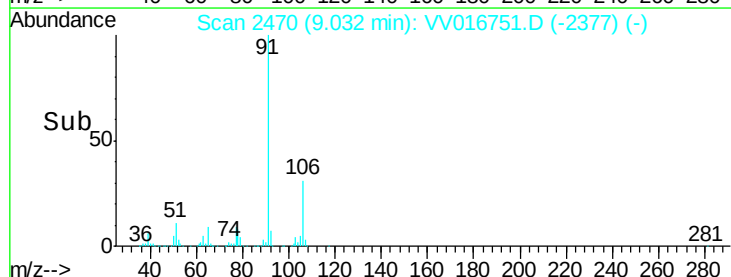
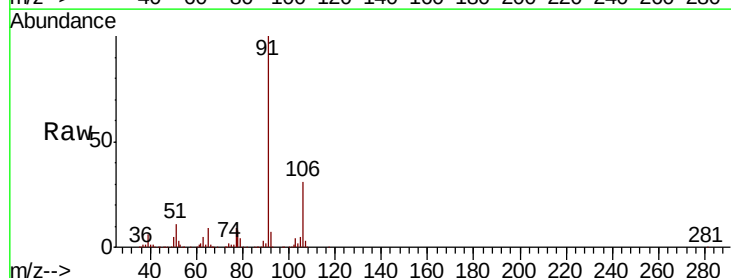
Instrument :  
MSVOA\_V  
ClientSampleId :  
F9E15

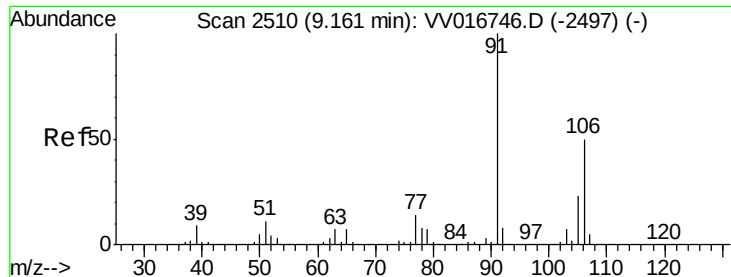
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 48.5  | 43.1  | 64.7  |
| 57      | 9.6   | 15.3  | 22.9# |
| 100     | 7.1   | 10.0  | 15.0# |



#52  
Ethylbenzene  
Concen: 17.843 ug/L  
RT: 9.03 min Scan# 2470  
Delta R.T. 0.00 min  
Lab File: VV016751.D  
Acq: 10 Jun 2020 05:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 30.7  | 21.1  | 39.1  |

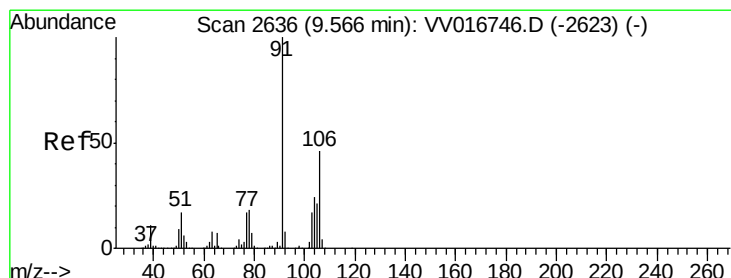
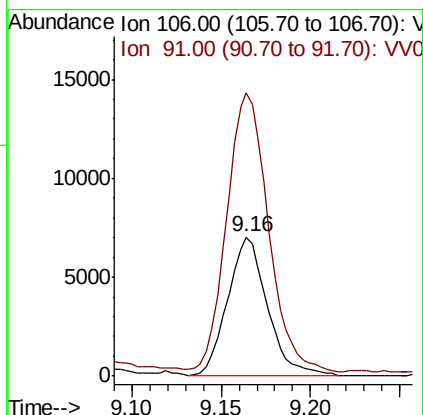
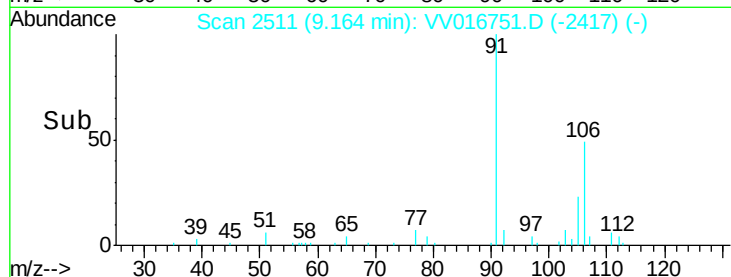
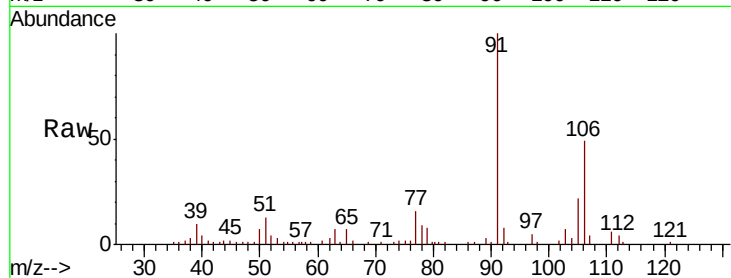




#53  
m,p-Xylene  
Concen: 2.503 ug/L  
RT: 9.16 min Scan# 2511  
Delta R.T. 0.00 min  
Lab File: VV016751.D  
Acq: 10 Jun 2020 05:30

Instrument :  
MSVOA\_V  
ClientSampleId :  
F9E15

Tot Ion:106 Resp: 10903  
Ion Ratio Lower Upper  
106 100  
91 203.4 144.6 268.6



#54  
o-xylene  
Concen: 2.532 ug/L  
RT: 9.57 min Scan# 2636  
Delta R.T. 0.00 min  
Lab File: VV016751.D  
Acq: 10 Jun 2020 05:30

Tgt Ion:106 Resp: 10878  
Ion Ratio Lower Upper  
106 100  
91 220.6 155.9 289.5

