

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY121319\  
 Data File : VY000939.D  
 Acq On : 13 Dec 2019 11:32  
 Operator : SY/MD  
 Sample : K4649-01  
 Misc : 5.00G/10ML/MSVOA Y/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 A5167

Manual Integrations  
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 12/17/2019 2:47:34 PM

Quant Time: Dec 14 06:09:21 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\SFAMYL110519SMA.M

Quant Title : VOC Analysis

QLast Update : Tue Nov 12 09:49:35 2019

Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.69  | 114  | 477724   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.49 | 117  | 436547   | 25.00 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 204702   | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 2.24   | 65    | 136762   | 18.79    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 75.16%   |
| 7) Chloroethane-d5             | 2.75   | 69    | 137109   | 21.62    | ug/L | -0.01    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 86.48%   |
| 11) 1,1-Dichloroethene-d2      | 3.86   | 63    | 578931   | 45.84    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 183.36%# |
| 21) 2-Butanone-d5              | 6.89   | 46    | 181301   | 56.74    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 113.48%  |
| 24) Chloroform-d               | 7.48   | 84    | 287065   | 23.06    | ug/L | -0.01    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 92.24%   |
| 26) 1,2-Dichloroethane-d4      | 8.14   | 65    | 169139m  | 22.50    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 90.00%   |
| 32) Benzene-d6                 | 8.11   | 84    | 637053   | 25.24    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 100.96%  |
| 36) 1,2-Dichloropropane-d6     | 9.12   | 67    | 210752   | 27.39    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 109.56%  |
| 41) Toluene-d8                 | 10.17  | 98    | 575521   | 24.53    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 98.12%   |
| 43) trans-1,3-Dichloropropene- | 10.44  | 79    | 90098    | 23.20    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 92.80%   |
| 47) 2-Hexanone-d5              | 10.78  | 63    | 144352   | 59.95    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 119.90%  |
| 56) 1,1,2,2-Tetrachloroethane- | 12.55  | 84    | 205582   | 24.68    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 98.72%   |
| 66) 1,2-Dichlorobenzene-d4     | 13.72  | 152   | 198745   | 24.86    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 99.44%   |

#### Target Compounds

|                        |       |     |         |              | Ovalue |
|------------------------|-------|-----|---------|--------------|--------|
| 12) 1,1-Dichloroethene | 3.87  | 96  | 711464  | 112.119 ug/L | # 76   |
| 13) Acetone            | 3.94  | 43  | 8258    | 2.709 ug/L   | 97     |
| 16) Methylene chloride | 4.71  | 84  | 7524m   | 0.966 ug/L   |        |
| 33) Benzene            | 8.16  | 78  | 3372991 | 117.644 ug/L | 100    |
| 34) Trichloroethene    | 8.94  | 95  | 826939  | 109.292 ug/L | 93     |
| 42) Toluene            | 10.24 | 91  | 3554668 | 116.096 ug/L | 99     |
| 51) Chlorobenzene      | 11.51 | 112 | 2262614 | 115.691 ug/L | 97     |

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

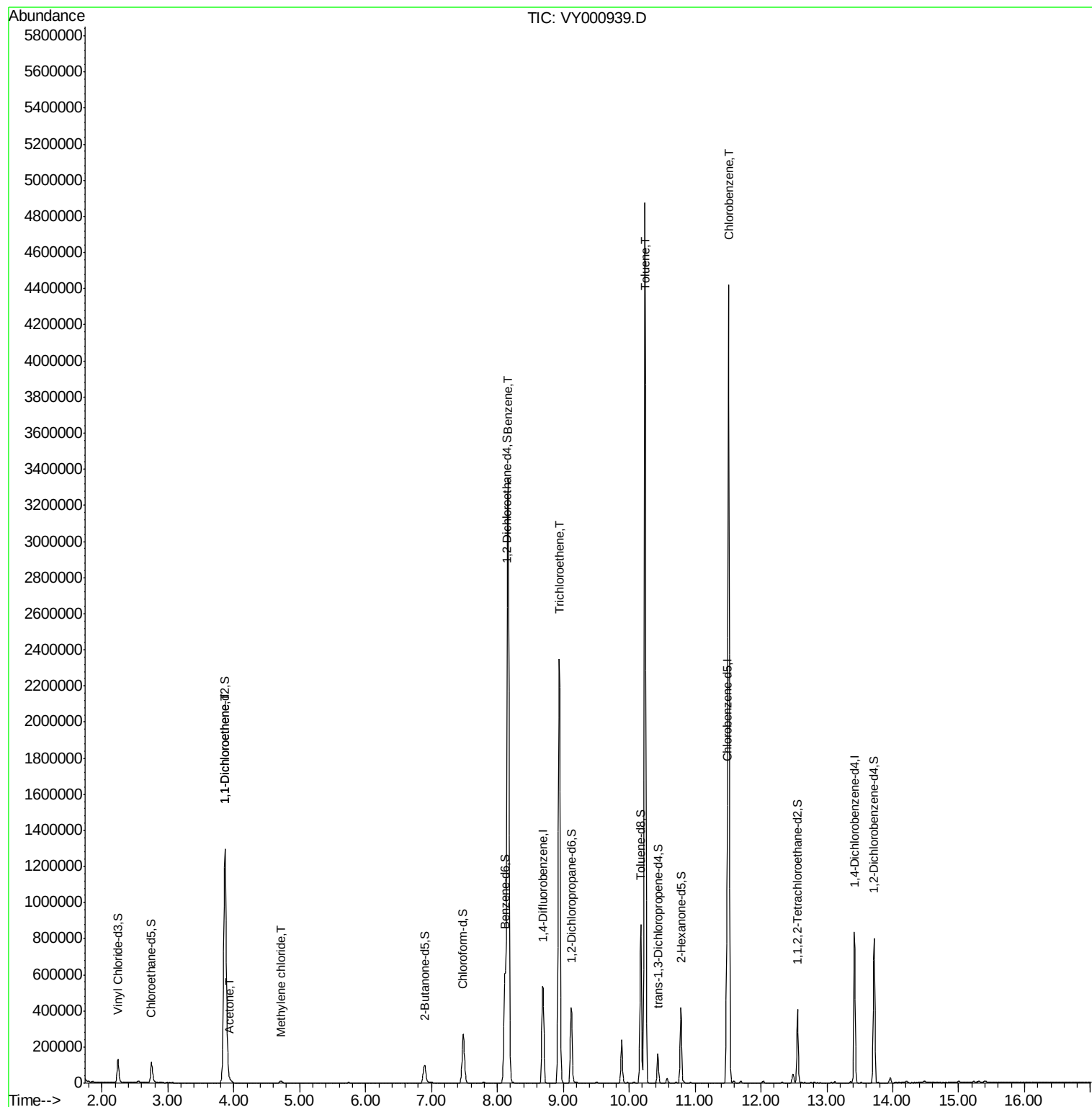
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY121319\  
Data File : VY000939.D  
Acq On : 13 Dec 2019 11:32  
Operator : SY/MD  
Sample : K4649-01  
Misc : 5.00G/10ML/MSVOA Y/SOIL  
ALS Vial : 4 Sample Multiplier: 1

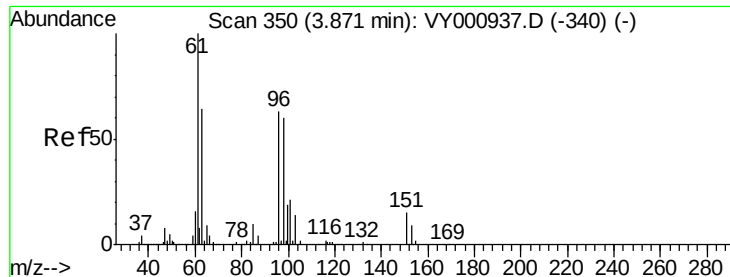
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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Quant Time: Dec 14 06:09:21 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\SFAMYL110519SMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Nov 12 09:49:35 2019  
Response via : Initial Calibration





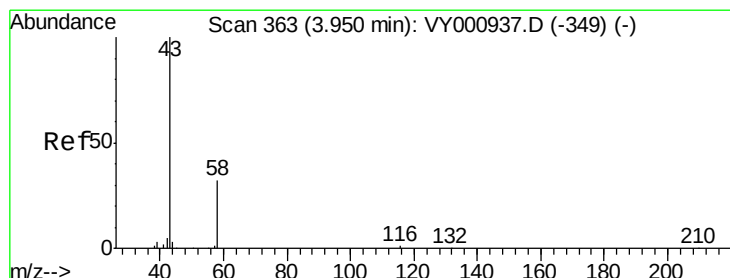
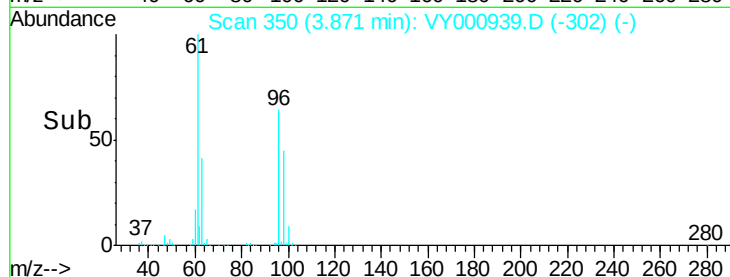
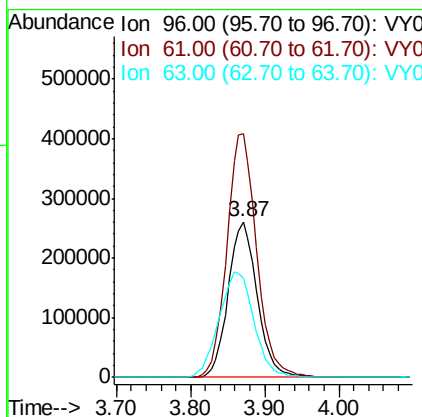
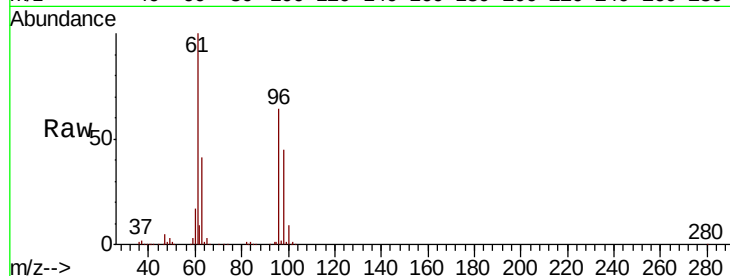
#12  
 1,1-Dichloroethene  
 Concen: 112.119 ug/L  
 RT: 3.87 min Scan# 350  
 Delta R.T. -0.01 min  
 Lab File: VY000939.D  
 Acq: 13 Dec 2019 11:32

Instrument :  
 MSVOA\_Y  
 ClientSampled :  
 A5167

| Tot Ion | Ion   | Ratio | Lower | Upper |
|---------|-------|-------|-------|-------|
| 96      | 100   |       |       |       |
| 61      | 156.2 | 118.6 | 220.2 |       |
| 63      | 63.3  | 77.8  | 144.6 |       |

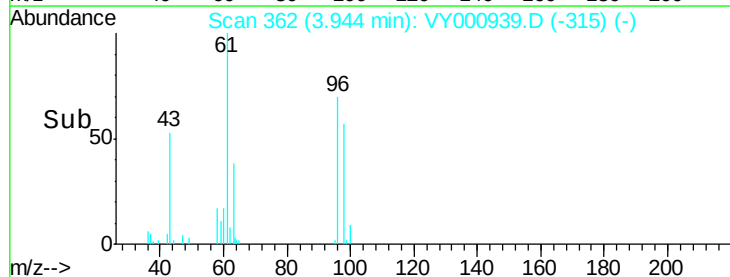
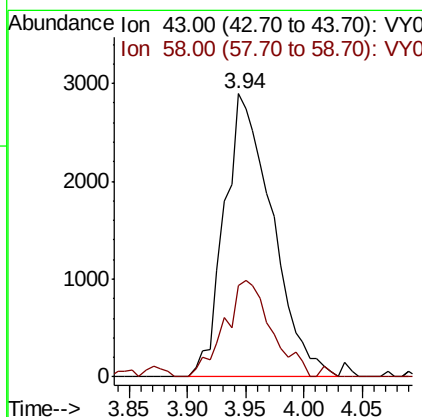
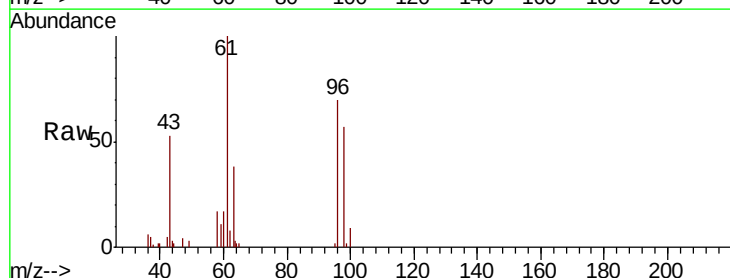
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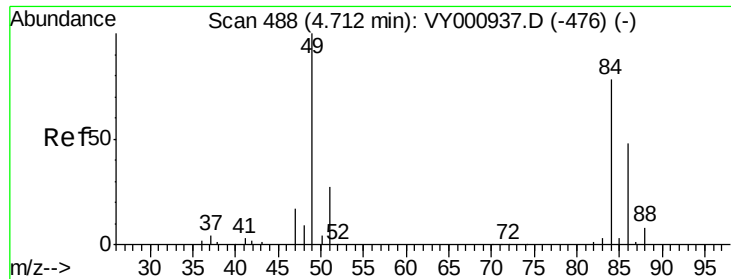
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#13  
 Acetone  
 Concen: 2.709 ug/L  
 RT: 3.94 min Scan# 362  
 Delta R.T. -0.01 min  
 Lab File: VY000939.D  
 Acq: 13 Dec 2019 11:32

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 43      | 100  |       |       |       |
| 58      | 33.2 | 0.0   | 69.6  |       |





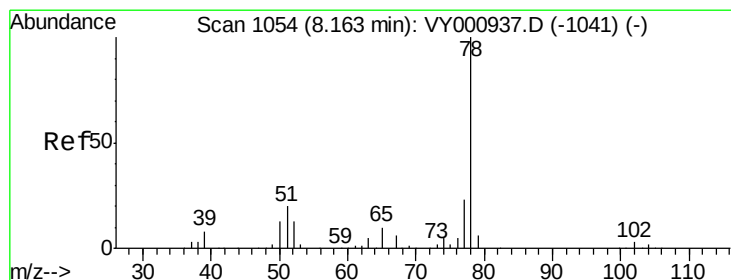
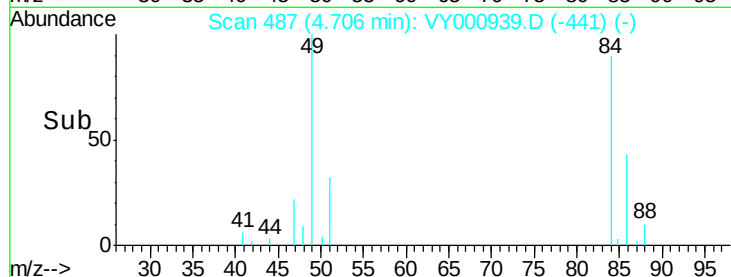
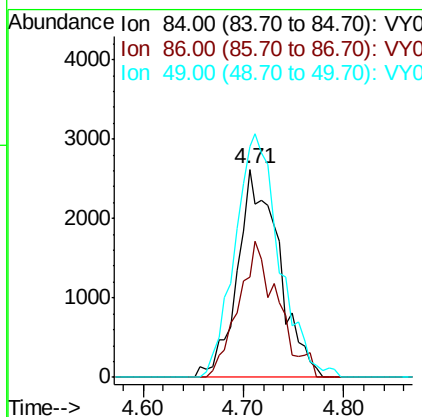
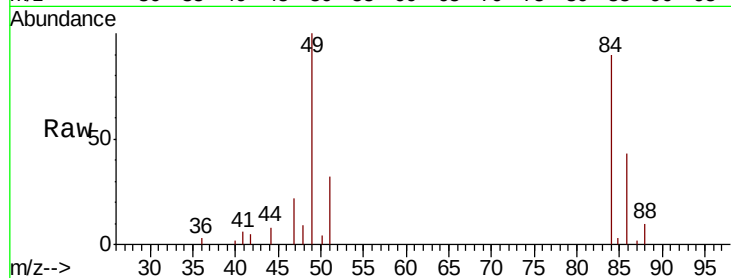
#16  
Methylene chloride  
Concen: 0.966 ug/L m  
RT: 4.71 min Scan# 487  
Delta R.T. -0.02 min  
Lab File: VY000939.D  
Acq: 13 Dec 2019 11:32

Instrument :  
MSVOA\_Y  
ClientSampled :  
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Tot Ion: 84 Resp: 7524  
Ion Ratio Lower Upper  
84 100  
86 48.1 43.4 80.6  
49 110.7 92.3 171.3

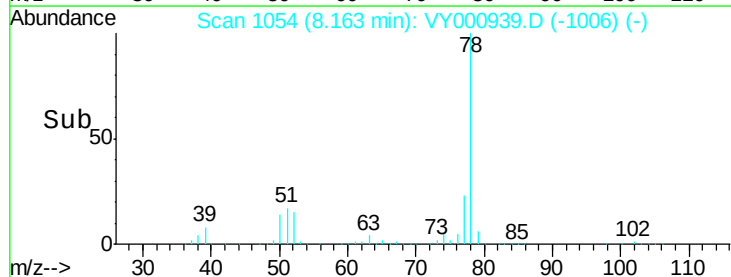
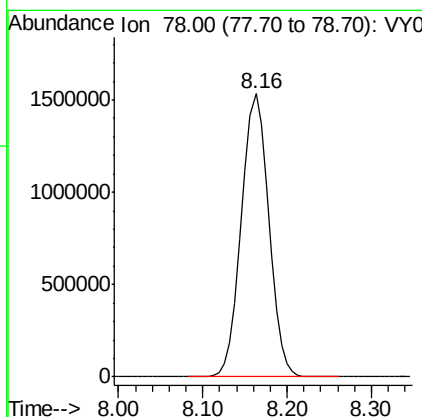
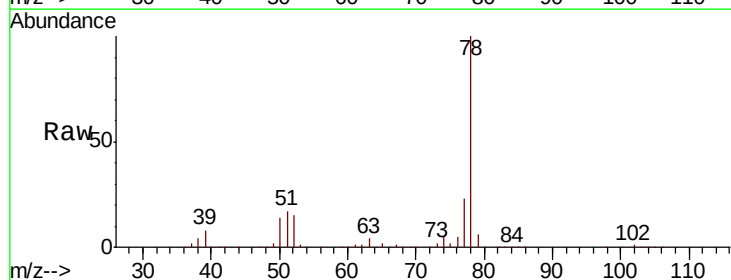
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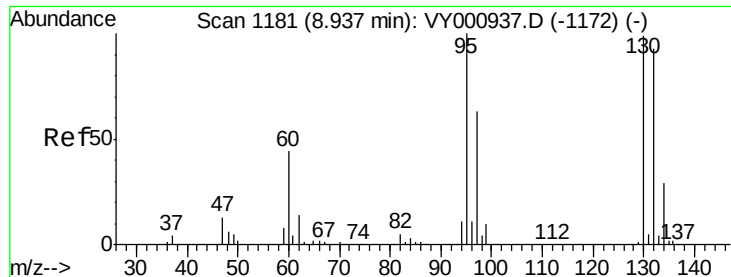
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#33  
Benzene  
Concen: 117.644 ug/L  
RT: 8.16 min Scan# 1054  
Delta R.T. -0.01 min  
Lab File: VY000939.D  
Acq: 13 Dec 2019 11:32

Tgt Ion: 78 Resp: 3372991





#34

Trichloroethene

Concen: 109.292 ug/L

RT: 8.94 min Scan# 1181

Delta R.T. -0.01 min

Lab File: VY000939.D

Acq: 13 Dec 2019 11:32

Instrument :

MSVOA\_Y

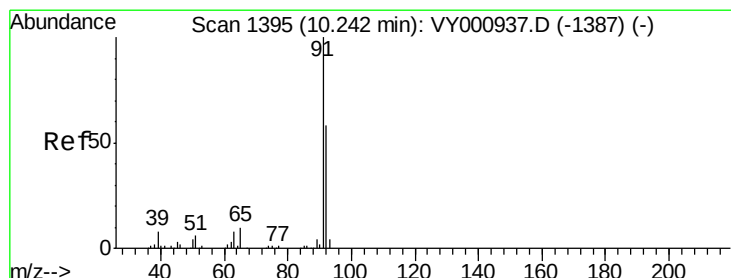
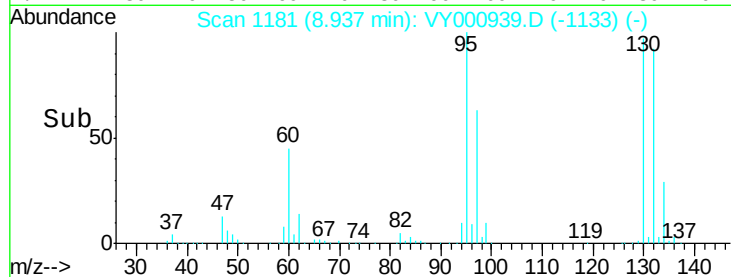
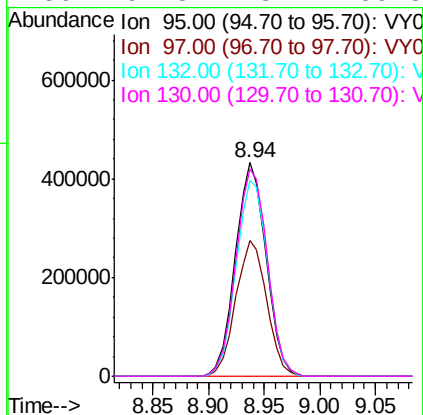
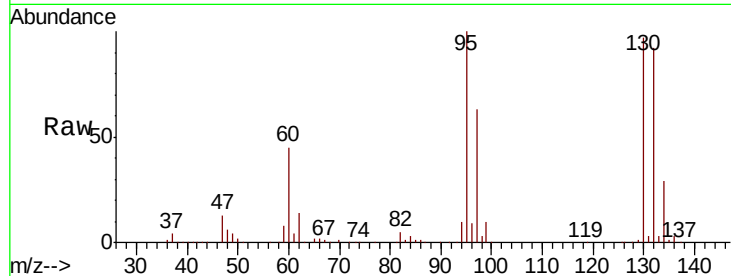
ClientSampleId :

A5167

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 95      | 100  |       | 826939 |       |       |
| 97      | 63.4 | 41.4  | 76.8   |       |       |
| 132     | 91.7 | 69.7  | 129.4  |       |       |
| 130     | 97.3 | 73.1  | 135.8  |       |       |

Manual Integrations  
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#42

Toluene

Concen: 116.096 ug/L

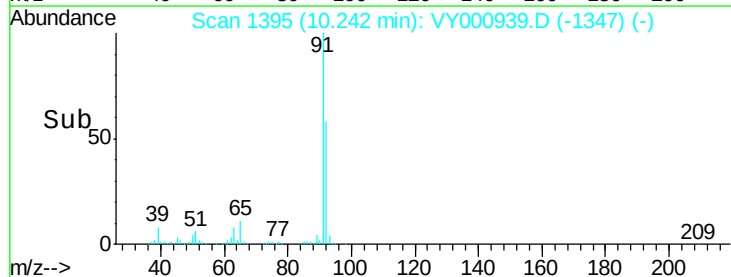
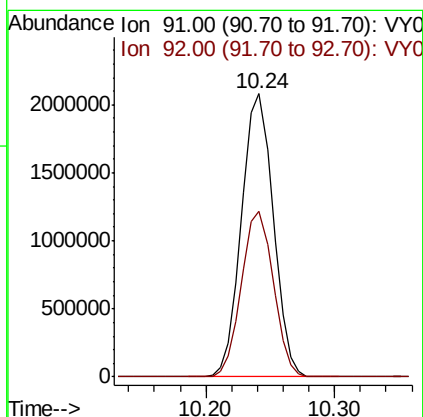
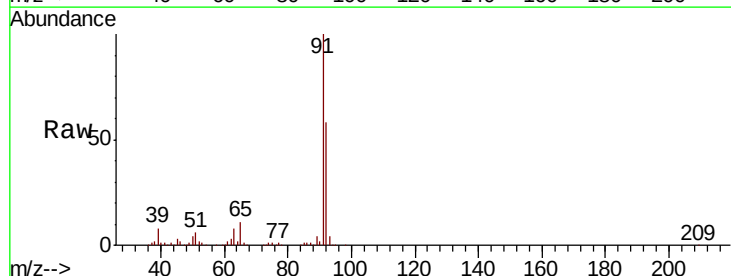
RT: 10.24 min Scan# 1395

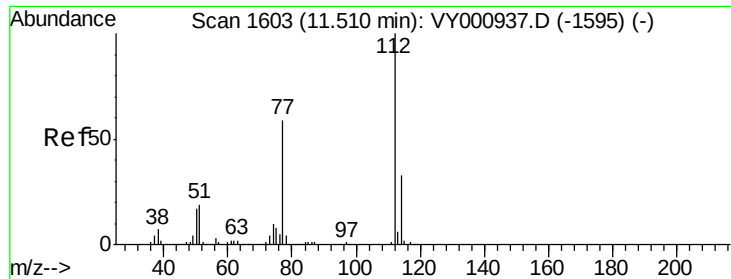
Delta R.T. -0.01 min

Lab File: VY000939.D

Acq: 13 Dec 2019 11:32

| Tgt Ion | Ion  | Ratio | Resp    | Lower | Upper |
|---------|------|-------|---------|-------|-------|
| 91      | 100  |       | 3554668 |       |       |
| 92      | 58.4 | 41.2  | 76.6    |       |       |





#51  
 Chlorobenzene  
 Concen: 115.691 ug/L  
 RT: 11.51 min Scan# 1603  
 Delta R.T. -0.01 min  
 Lab File: VY000939.D  
 Acq: 13 Dec 2019 11:32

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 A5167

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 112   | Resp: | 2262614 |
| Ion      | Ratio | Lower | Upper   |
| 112      | 100   |       |         |
| 114      | 31.4  | 22.1  | 41.1    |
| 77       | 59.6  | 45.3  | 67.9    |

Manual Integrations  
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