

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU082219\  
 Data File : VU033904.D  
 Acq On : 22 Aug 2019 16:47  
 Operator : JC/SP  
 Sample : VIBLK41  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VIBLK41

Manual Integrations  
 APPROVED

MMDadoda  
 8/23/2019 10:44:43 AM

Quant Time: Aug 23 02:47:48 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM082219WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Aug 23 02:20:51 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 603956   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 597935   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 262474   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 228904   | 43.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 86.44%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 193152   | 45.97    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 91.94%  |
| 11) 1,1-Dichloroethene-d2      | 2.25    | 63    | 330669   | 34.61    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 69.22%  |
| 21) 2-Butanone-d5              | 4.15    | 46    | 340140   | 95.44    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 95.44%  |
| 24) Chloroform-d               | 4.62    | 84    | 392966   | 45.58    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.16%  |
| 26) 1,2-Dichloroethane-d4      | 5.28    | 65    | 264488   | 47.46    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.92%  |
| 32) Benzene-d6                 | 5.32    | 84    | 828421   | 48.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.54%  |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 273531   | 49.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 99.26%  |
| 41) Toluene-d8                 | 7.55    | 98    | 731887   | 47.68    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 95.36%  |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 122119   | 48.01    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 96.02%  |
| 47) 2-Hexanone-d5              | 8.29    | 63    | 210709   | 91.93    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 91.93%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84    | 359163   | 45.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 91.52%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.84   | 152   | 275079   | 51.36    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 102.72% |

## Target Compounds

|                                |       |     |        |            | Ovalue |
|--------------------------------|-------|-----|--------|------------|--------|
| 14) Carbon disulfide           | 2.46  | 76  | 23564  | 1.799 ug/L | 96     |
| 62) 1,3-Dichlorobenzene        | 11.40 | 146 | 10406  | 1.262 ug/L | 98     |
| 63) 1,4-Dichlorobenzene        | 11.49 | 146 | 11795  | 1.381 ug/L | 94     |
| 65) 1,2-Dichlorobenzene        | 11.86 | 146 | 10619  | 1.291 ug/L | 95     |
| 66) 1,2-Dibromo-3-chloropropan | 12.65 | 75  | 1987   | 1.317 ug/L | 93     |
| 68) 1,2,4-trichlorobenzene     | 13.49 | 180 | 10798  | 2.078 ug/L | 98     |
| 70) 1,2,3-Trichlorobenzene     | 13.98 | 180 | 15489m | 2.821 ug/L |        |

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

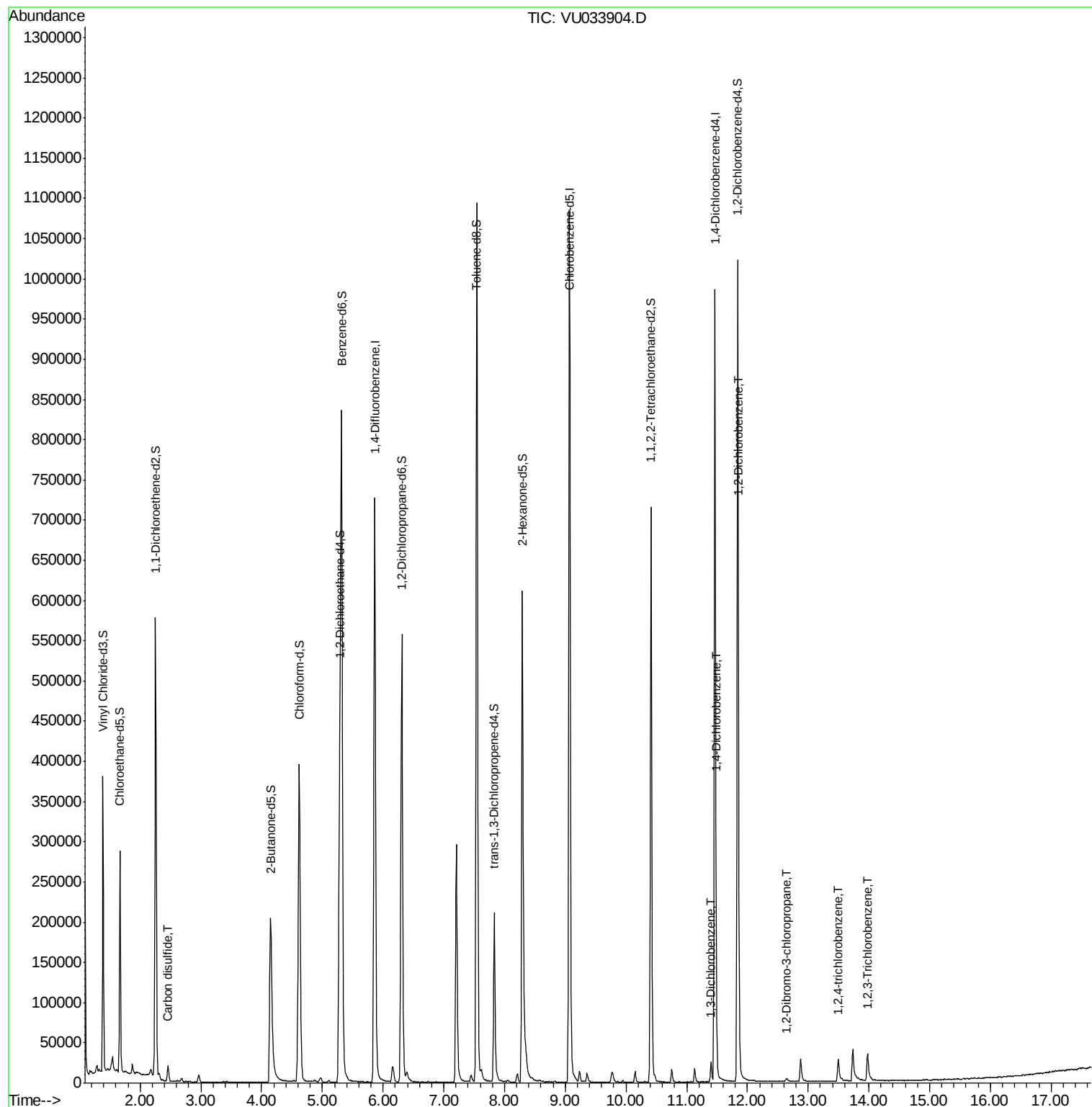
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU082219\  
Data File : VU033904.D  
Acq On : 22 Aug 2019 16:47  
Operator : JC/SP  
Sample : VIBLK41  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 7 Sample Multiplier: 1

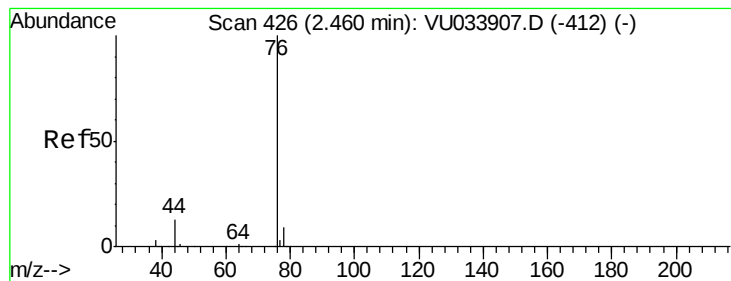
Instrument :  
MSVOA\_U  
ClientSampleId :  
VIBLK41

Manual Integrations  
APPROVED

MMDadoda  
8/23/2019 10:44:43 AM

Quant Time: Aug 23 02:47:48 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM082219WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Aug 23 02:20:51 2019  
Response via : Initial Calibration





#14

Carbon disulfide

Concen: 1.799 ug/L

RT: 2.46 min Scan# 426

Delta R.T. 0.00 min

Lab File: VU033904.D

Acq: 22 Aug 2019 16:47

Instrument :

MSVOA\_U

ClientSampleId :

VIBLK41

Tot Ion: 76 Resp: 23564

Ion Ratio Lower Upper

76 100

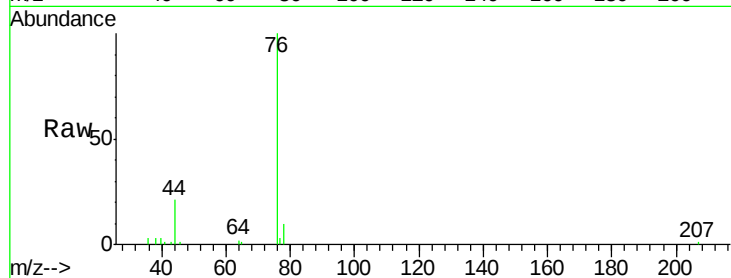
78 10.5 7.4 11.0

Manual Integrations

APPROVED

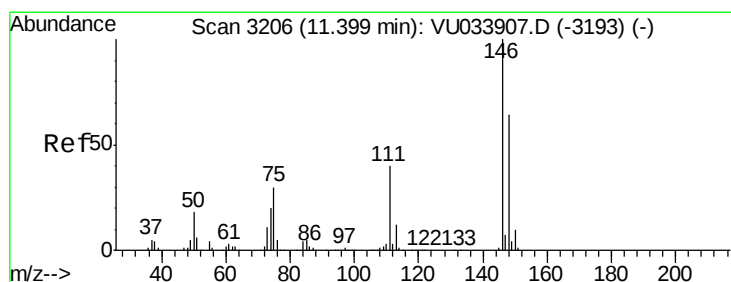
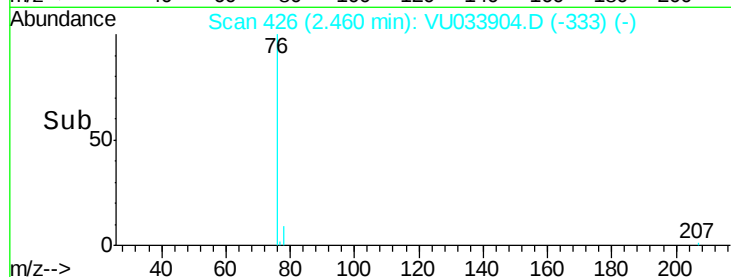
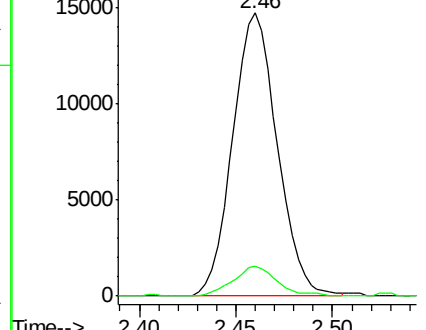
MMDadoda

8/23/2019 10:44:43 AM



Abundance Ion 76.00 (75.70 to 76.70): VU033907.D (-412) (-)

Ion 78.00 (77.70 to 78.70): VU033907.D (-412) (-)



#62

1,3-Dichlorobenzene

Concen: 1.262 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU033904.D

Acq: 22 Aug 2019 16:47

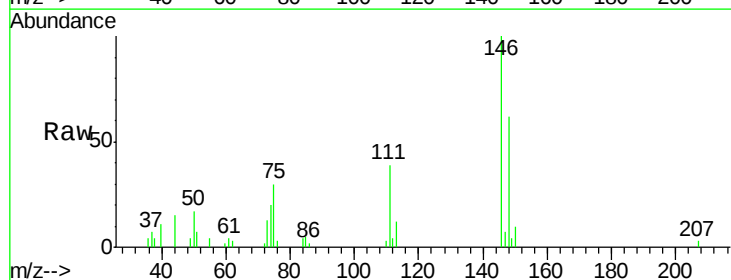
Tgt Ion: 146 Resp: 10406

Ion Ratio Lower Upper

146 100

111 38.9 27.8 51.6

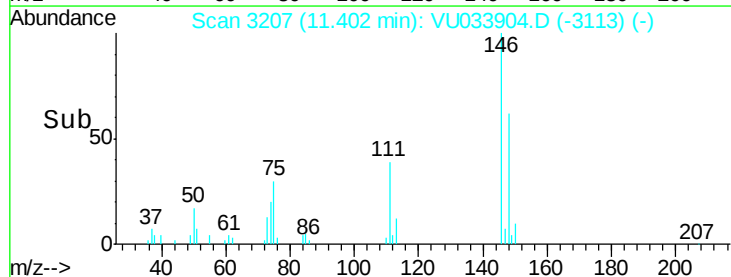
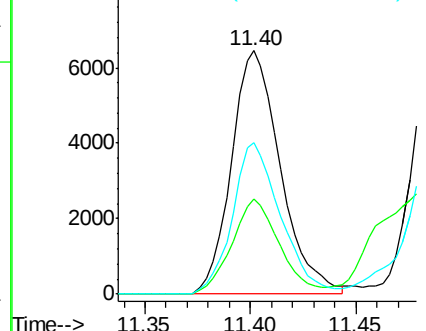
148 62.3 45.1 83.9

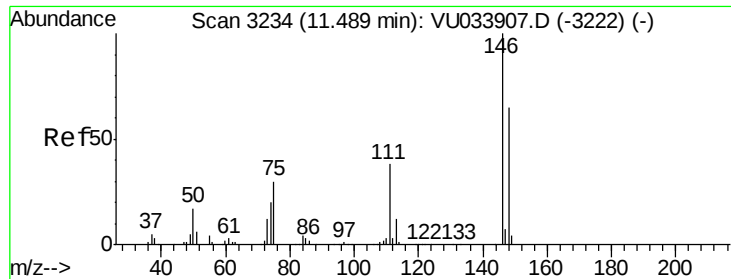


Abundance Ion 146.00 (145.70 to 146.70): VU033907.D (-3193) (-)

Ion 111.00 (110.70 to 111.70): VU033907.D (-3193) (-)

Ion 148.00 (147.70 to 148.70): VU033907.D (-3193) (-)





#63

1,4-Dichlorobenzene

Concen: 1.381 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU033904.D

Acq: 22 Aug 2019 16:47

Instrument :

MSVOA\_U

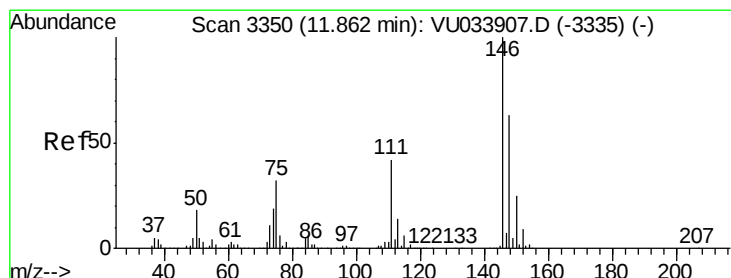
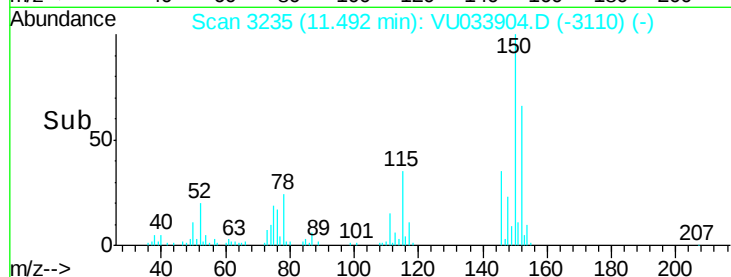
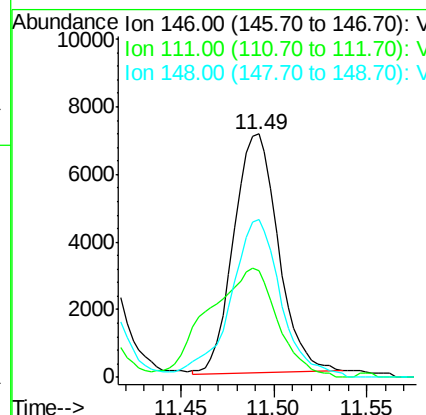
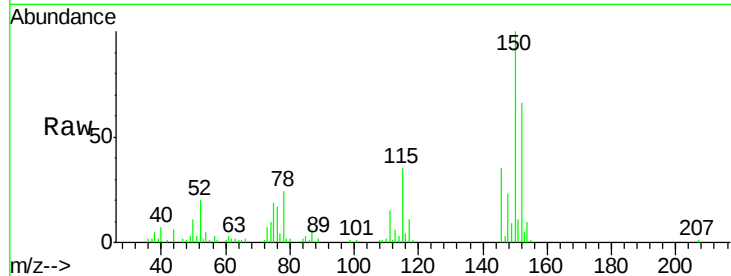
ClientSampled :

VIBLK41

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 146   | Resp: | 11795 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 44.0  | 26.7  | 49.5  |
| 148       | 64.7  | 43.5  | 80.9  |

Manual Integrations  
APPROVED

MMDadoda  
8/23/2019 10:44:43 AM



#65

1,2-Dichlorobenzene

Concen: 1.291 ug/L

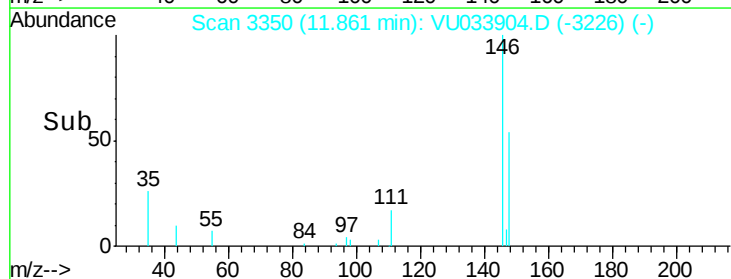
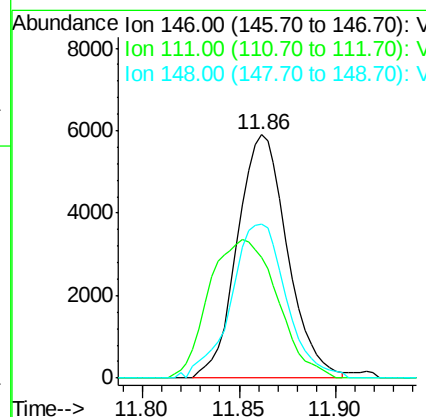
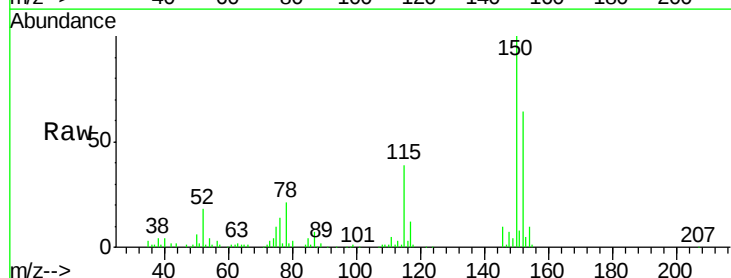
RT: 11.86 min Scan# 3350

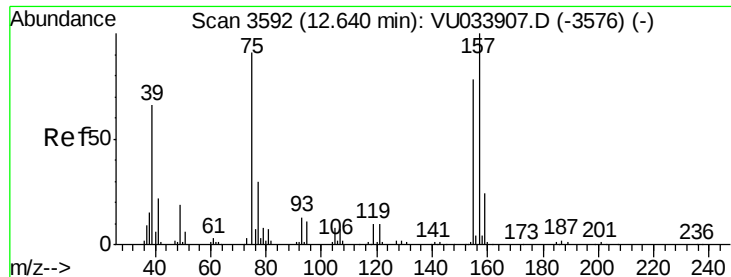
Delta R.T. 0.00 min

Lab File: VU033904.D

Acq: 22 Aug 2019 16:47

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 10619 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 49.5  | 33.1  | 49.7  |
| 148       | 63.1  | 50.8  | 76.2  |





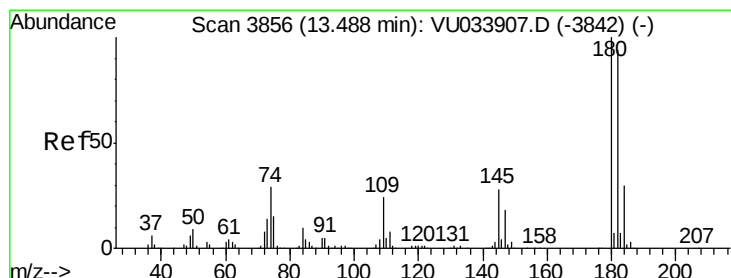
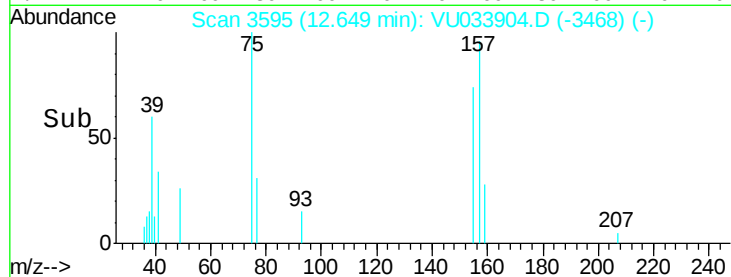
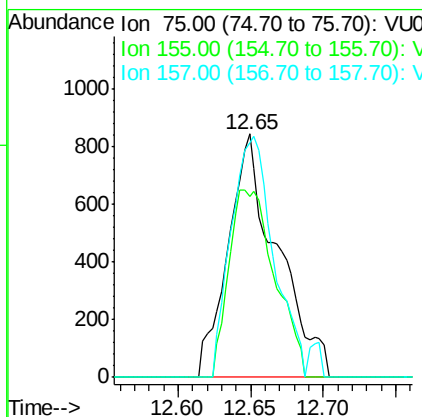
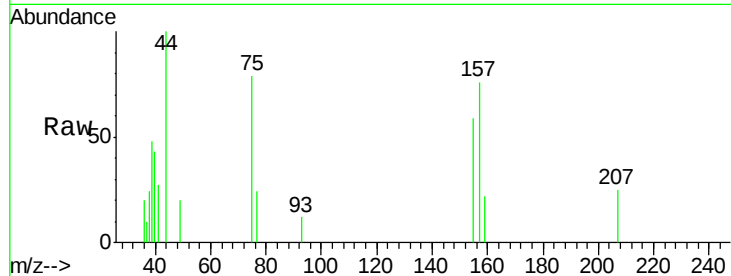
#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 1.317 ug/L  
 RT: 12.65 min Scan# 3595  
 Delta R.T. 0.01 min  
 Lab File: VU033904.D  
 Acq: 22 Aug 2019 16:47

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VIBLK41

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 74.5  | 64.3  | 96.5  |
| 157     | 96.3  | 83.4  | 125.2 |

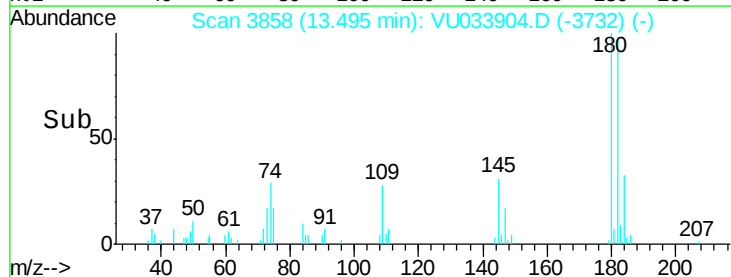
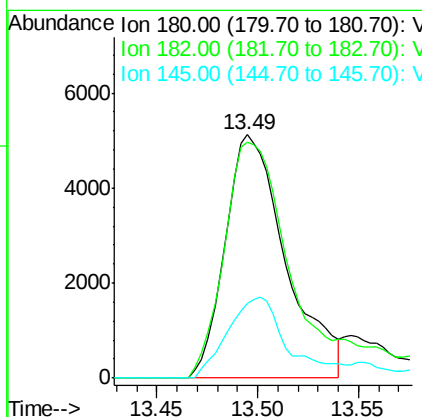
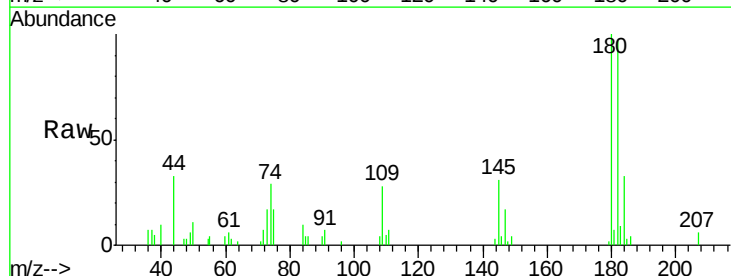
Manual Integrations  
 APPROVED

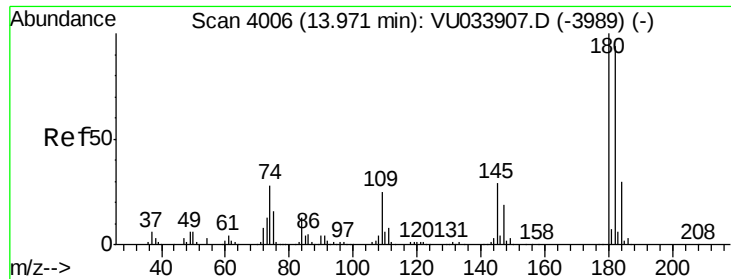
MMDadoda  
 8/23/2019 10:44:43 AM



#68  
 1,2,4-trichlorobenzene  
 Concen: 2.078 ug/L  
 RT: 13.49 min Scan# 3858  
 Delta R.T. 0.01 min  
 Lab File: VU033904.D  
 Acq: 22 Aug 2019 16:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 99.0  | 76.8  | 115.2 |
| 145     | 28.3  | 22.8  | 34.2  |





#70  
 1,2,3-Trichlorobenzene  
 Concen: 2.821 ug/L m  
 RT: 13.98 min Scan# 4009  
 Delta R.T. 0.01 min  
 Lab File: VU033904.D  
 Acq: 22 Aug 2019 16:47

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VIBLK41

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 90.4  | 76.7  | 115.1 |
| 145     | 25.2  | 23.9  | 35.9  |

Manual Integrations  
 APPROVED

MMDadoda  
 8/23/2019 10:44:43 AM

