

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU030919\  
 Data File : VU029863.D  
 Acq On : 07 Mar 2019 19:25  
 Operator : JC/SP  
 Sample : K1734-08  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BF1B0

Manual Integrations  
 APPROVED

MMDadoda  
 3/8/2019 9:23:10 AM

Quant Time: Mar 08 06:09:19 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM021519WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Mar 08 04:31:20 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 481619   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 479147   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 237240   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 133499   | 37.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 75.66%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 117389   | 37.42    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 74.84%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 205099   | 29.73    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 59.46%# |
| 21) 2-Butanone-d5              | 4.17    | 46    | 218660   | 101.81   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 101.81% |
| 24) Chloroform-d               | 4.64    | 84    | 261225   | 45.64    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.28%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 165322   | 45.62    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.24%  |
| 32) Benzene-d6                 | 5.34    | 84    | 571009   | 47.36    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.72%  |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 175083   | 48.27    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 96.54%  |
| 41) Toluene-d8                 | 7.56    | 98    | 527320   | 42.86    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 85.72%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 79308    | 41.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 82.44%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 188309   | 93.22    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 93.22%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 276218   | 45.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 90.14%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 232711   | 45.52    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 91.04%  |

## Target Compounds

|                                |      |     |           |               | Ovalue |
|--------------------------------|------|-----|-----------|---------------|--------|
| 3) Chloromethane               | 1.32 | 50  | 3078      | 1.062 ug/L    | 95     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28 | 101 | 10886     | 3.245 ug/L    | 84     |
| 12) 1,1-Dichloroethene         | 2.28 | 96  | 28835     | 9.041 ug/L #  | 1      |
| 13) Acetone                    | 2.32 | 43  | 7671      | 3.343 ug/L    | 92     |
| 16) Methylene chloride         | 2.70 | 84  | 3716      | 1.204 ug/L    | 83     |
| 20) cis-1,2-Dichloroethene     | 4.22 | 96  | 311948    | 91.200 ug/L   | 98     |
| 34) Trichloroethene            | 6.18 | 95  | 204533    | 61.805 ug/L   | 98     |
| 46) Tetrachloroethene          | 8.23 | 164 | 22349344m | 6899.861 ug/L |        |

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

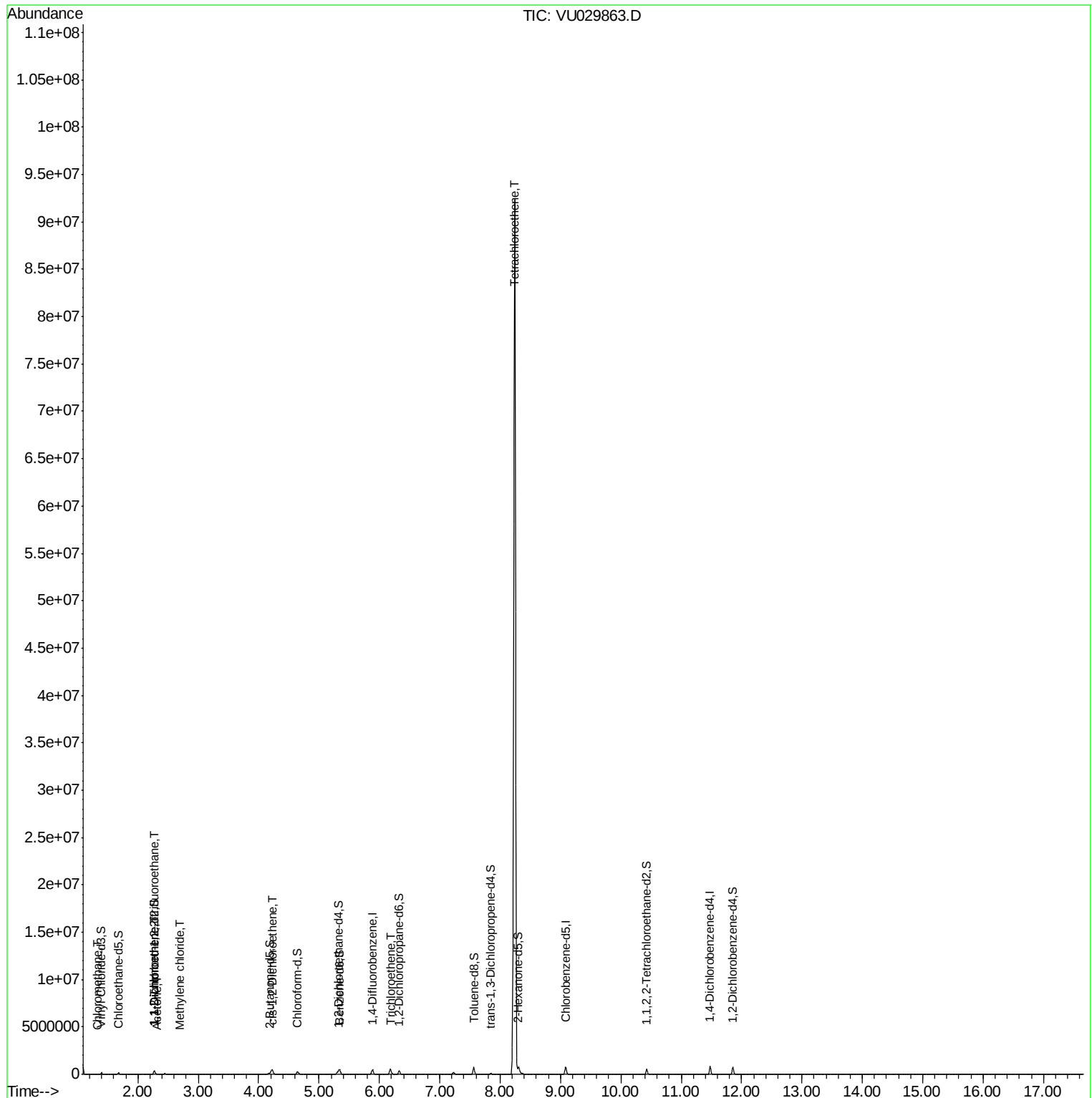
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU030919\  
Data File : VU029863.D  
Acq On : 07 Mar 2019 19:25  
Operator : JC/SP  
Sample : K1734-08  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 12 Sample Multiplier: 1

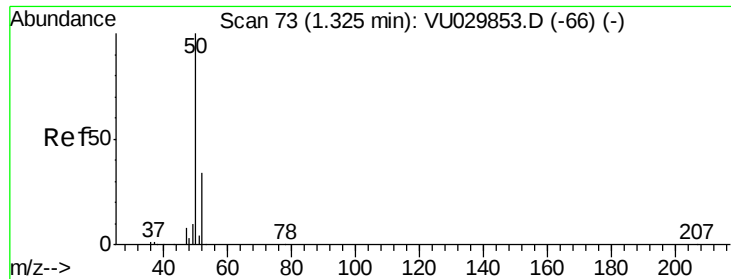
**Instrument :**  
MSVOA\_U  
**ClientSampleId :**  
BF1B0

## Manual Integrations

MMDadoda  
3/8/2019 9:23:10 AM

Quant Time: Mar 08 06:09:19 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM021519WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Mar 08 04:31:20 2019  
Response via : Initial Calibration





#3

Chloromethane

Concen: 1.062 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU029863.D

Acq: 07 Mar 2019 19:25

Instrument :

MSVOA\_U

ClientSampleId :

BF1B0

Tot Ion: 50 Resp: 3078

Ion Ratio Lower Upper

50 100

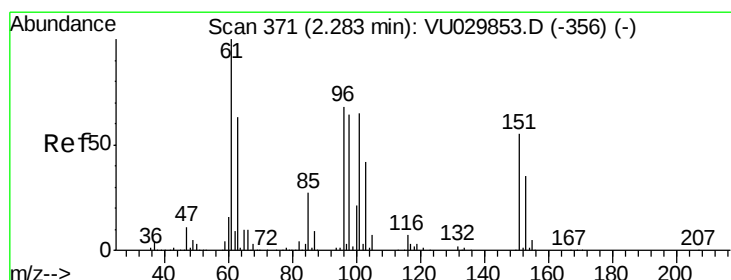
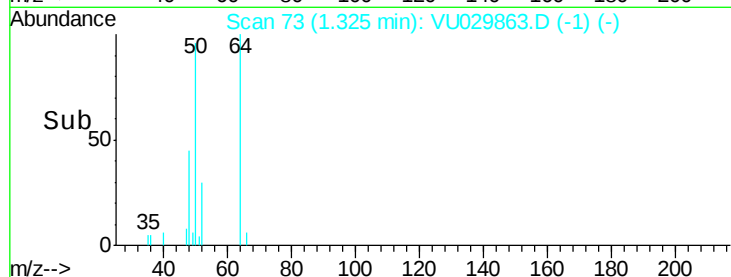
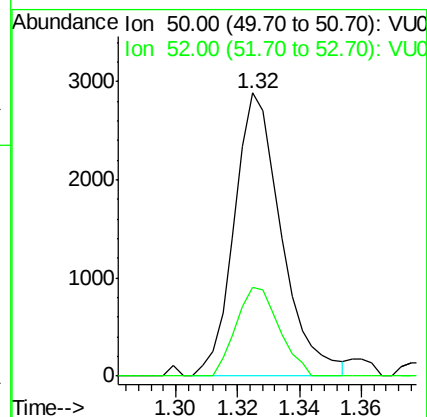
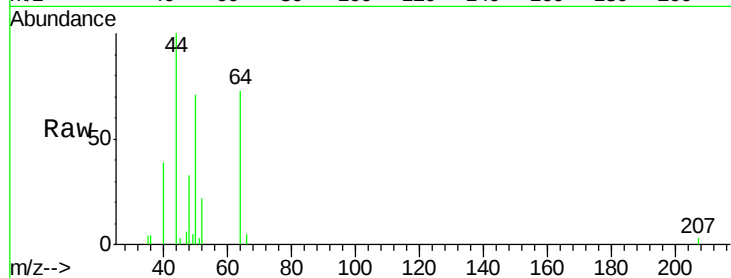
52 31.5 23.9 44.3

Manual Integrations

APPROVED

MMDadoda

3/8/2019 9:23:10 AM



#10

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

Concen: 3.245 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU029863.D

Acq: 07 Mar 2019 19:25

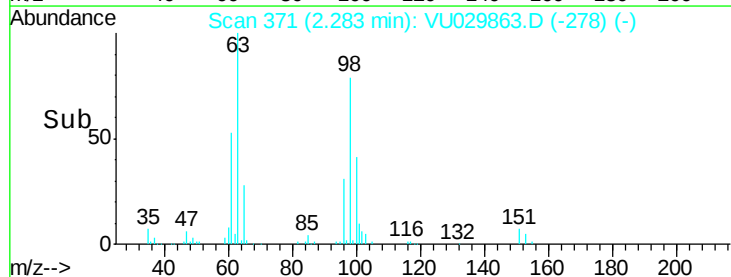
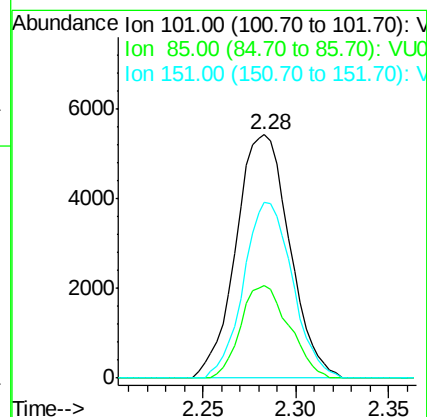
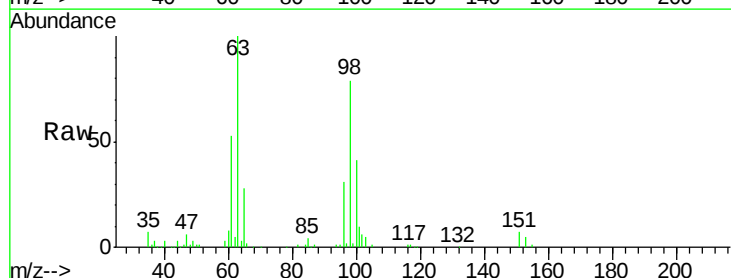
Tgt Ion: 101 Resp: 10886

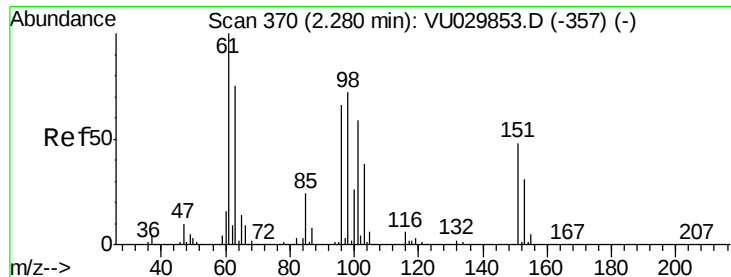
Ion Ratio Lower Upper

101 100

85 34.2 33.0 49.6

151 65.7 65.7 98.5





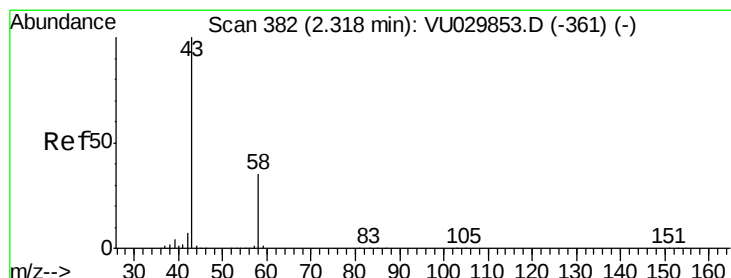
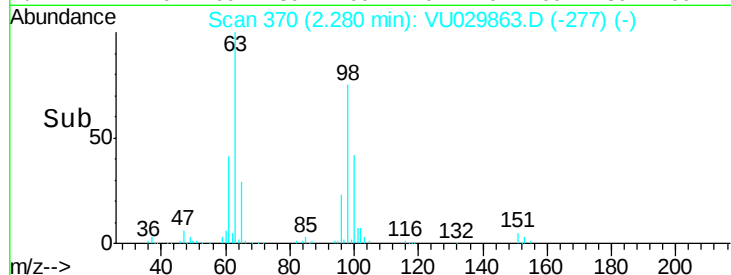
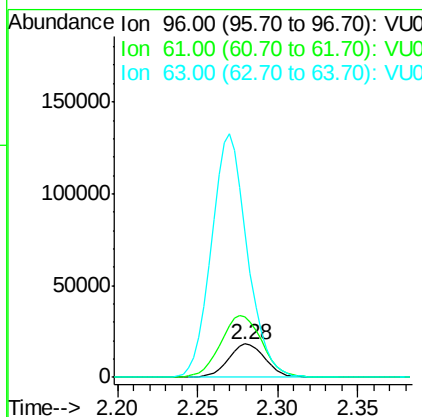
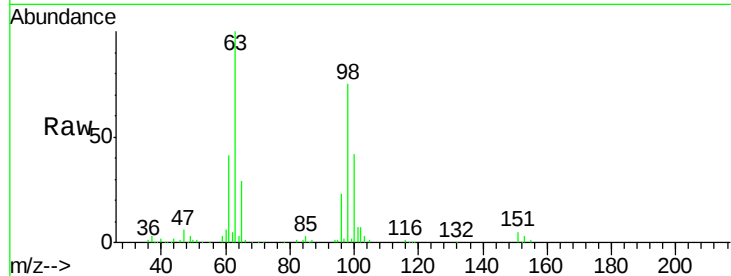
#12  
 1,1-Dichloroethene  
 Concen: 9.041 ug/L  
 RT: 2.28 min Scan# 370  
 Delta R.T. 0.00 min  
 Lab File: VU029863.D  
 Acq: 07 Mar 2019 19:25

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BF1B0

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 96      | 100   |       |        |
| 61      | 182.1 | 114.0 | 211.8  |
| 63      | 440.2 | 98.7  | 183.3# |

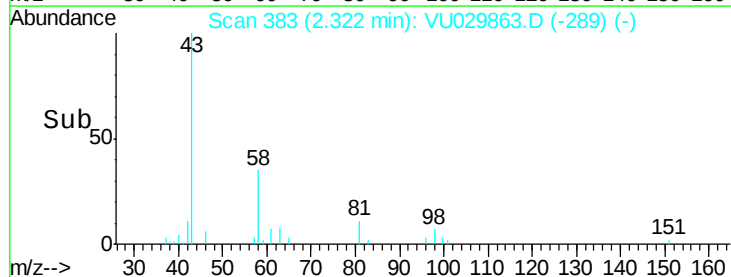
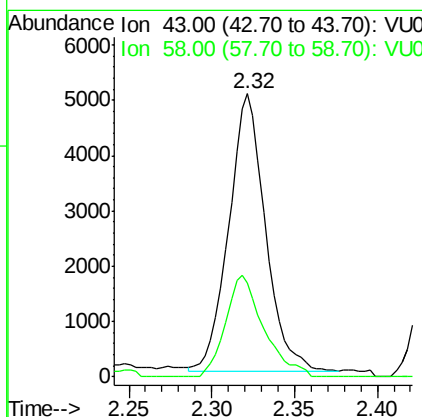
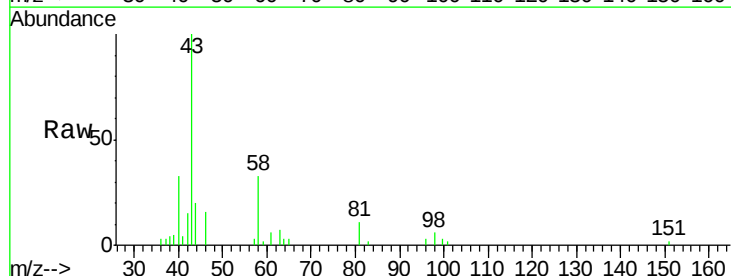
Manual Integrations  
 APPROVED

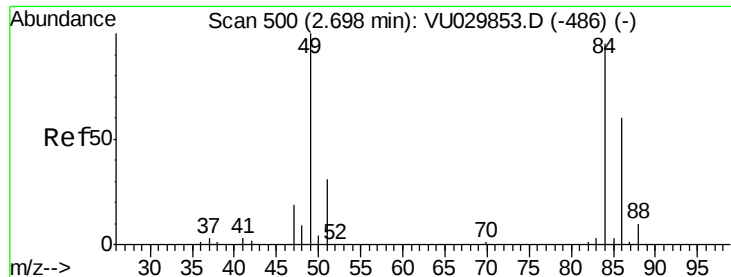
MMDadoda  
 3/8/2019 9:23:10 AM



#13  
 Acetone  
 Concen: 3.343 ug/L  
 RT: 2.32 min Scan# 383  
 Delta R.T. 0.00 min  
 Lab File: VU029863.D  
 Acq: 07 Mar 2019 19:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 38.2  | 0.0   | 66.8  |





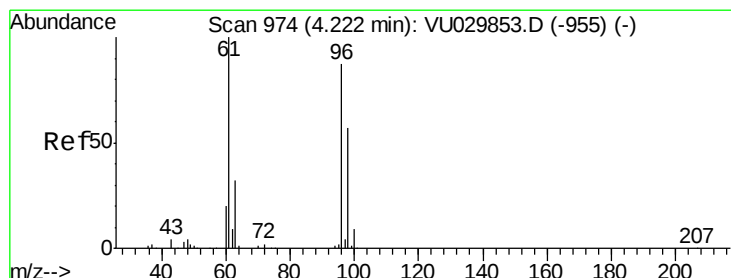
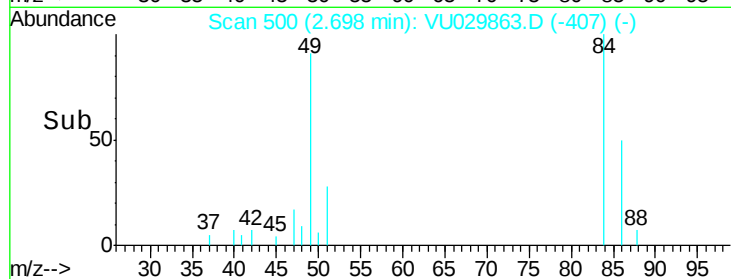
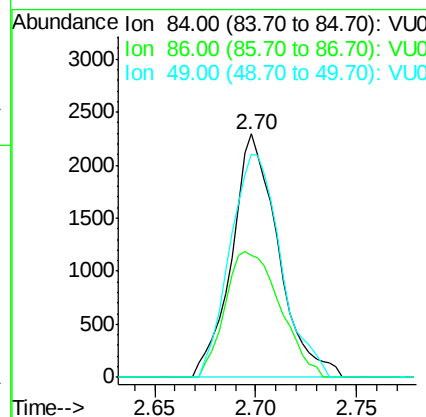
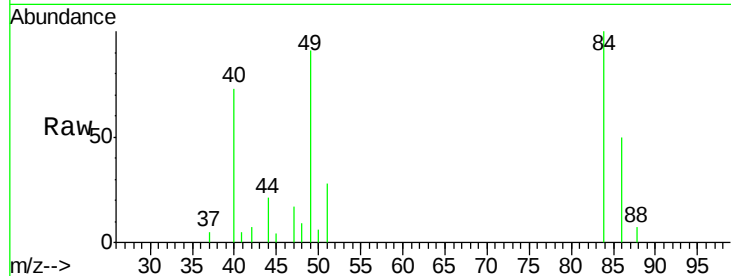
#16  
Methvlene chloride  
Concen: 1.204 ug/L  
RT: 2.70 min Scan# 500  
Delta R.T. 0.00 min  
Lab File: VU029863.D  
Acq: 07 Mar 2019 19:25

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF1B0

| Tot Ion | 84    | Resp: | 3716  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 84      | 100   |       |       |
| 86      | 50.3  | 45.8  | 85.0  |
| 49      | 91.5  | 75.1  | 139.5 |

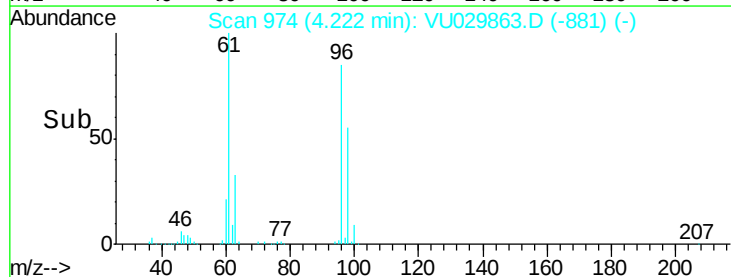
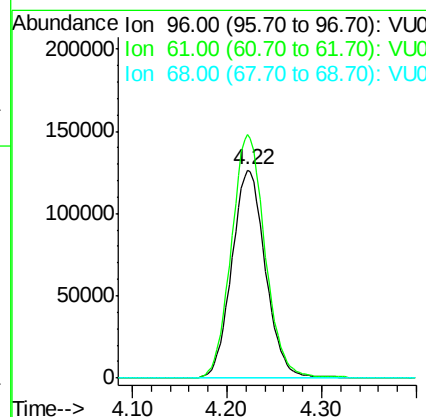
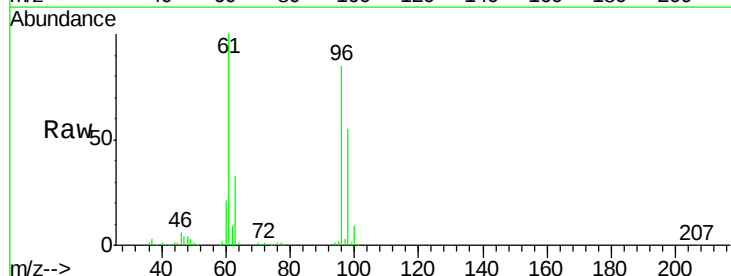
Manual Integrations  
APPROVED

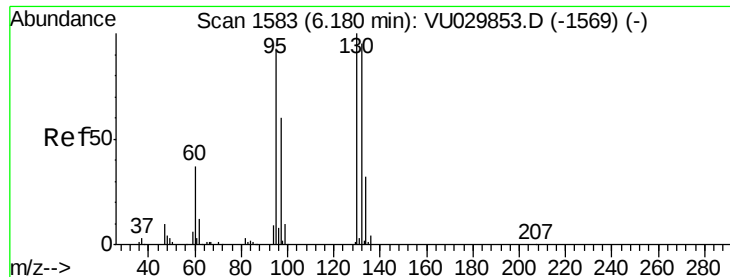
MMDadoda  
3/8/2019 9:23:10 AM



#20  
cis-1,2-Dichloroethene  
Concen: 91.200 ug/L  
RT: 4.22 min Scan# 974  
Delta R.T. 0.00 min  
Lab File: VU029863.D  
Acq: 07 Mar 2019 19:25

| Tgt Ion | 96    | Resp: | 311948 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 96      | 100   |       |        |
| 61      | 117.1 | 83.9  | 155.7  |
| 68      | 0.0   | 0.0   | 0.0    |





#34

Trichloroethene

Concen: 61.805 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU029863.D

Acq: 07 Mar 2019 19:25

Instrument :

MSVOA\_U

ClientSampleId :

BF1B0

Tot Ion: 95 Resp: 204533

Ion Ratio Lower Upper

95 100

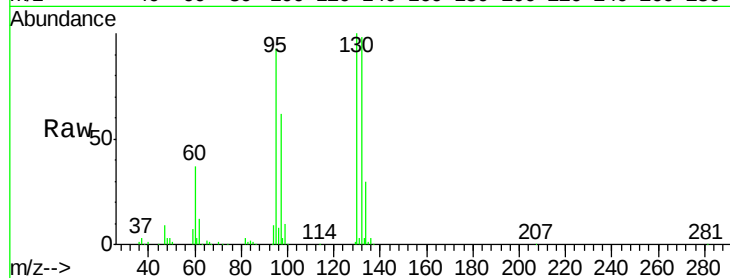
97 65.9 44.6 82.8

132 104.9 74.6 138.6

130 107.0 77.2 143.4

Manual Integrations  
APPROVED

MMDadoda  
3/8/2019 9:23:10 AM

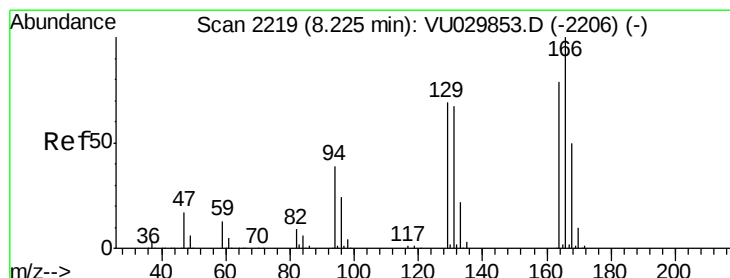
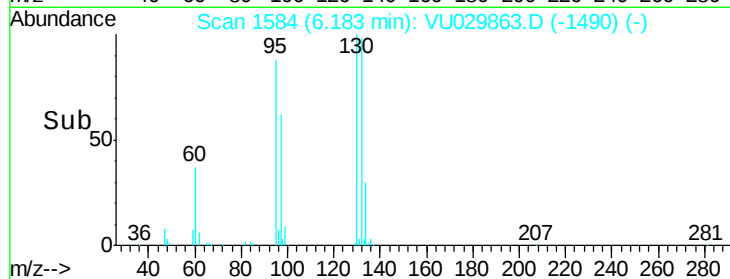
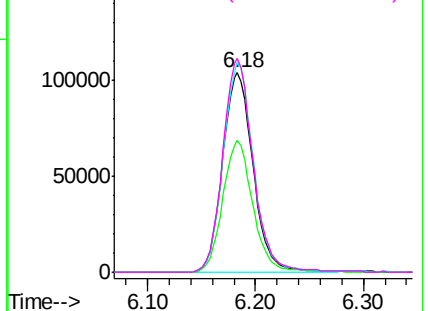


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#46

Tetrachloroethene

Concen: 6899.861 ug/L m

RT: 8.23 min Scan# 2221

Delta R.T. 0.01 min

Lab File: VU029863.D

Acq: 07 Mar 2019 19:25

Tgt Ion: 164 Resp: 22349344

Ion Ratio Lower Upper

164 100

129 100.0 62.1 115.3

131 100.0 60.1 111.5

166 100.0 89.7 166.5

Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

