

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091919\  
 Data File : VU034661.D  
 Acq On : 19 Sep 2019 21:03  
 Operator : JC/SP  
 Sample : K4895-07  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFDG2

Manual Integrations  
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 9/20/2019 12:43:42 PM

Quant Time: Sep 20 05:01:39 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Sep 20 04:02:05 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 470199   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 452392   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.46 | 152  | 201242   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 220739   | 45.86    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 91.72%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 182483   | 49.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 98.10%  |
| 11) 1,1-Dichloroethene-d2      | 2.26    | 63    | 310857   | 38.13    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 76.26%  |
| 21) 2-Butanone-d5              | 4.15    | 46    | 426984   | 115.74   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 115.74% |
| 24) Chloroform-d               | 4.62    | 84    | 342221   | 48.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.29    | 65    | 251568   | 48.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.80%  |
| 32) Benzene-d6                 | 5.32    | 84    | 686886   | 48.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.98%  |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 239818   | 48.93    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 97.86%  |
| 41) Toluene-d8                 | 7.54    | 98    | 643399   | 48.23    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.46%  |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 112955   | 48.12    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 96.24%  |
| 47) 2-Hexanone-d5              | 8.29    | 63    | 275993   | 112.12   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 112.12% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84    | 328245   | 48.27    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 96.54%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.84   | 152   | 212783   | 50.42    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 100.84% |

## Target Compounds

| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 5) Vinyl chloride          | 1.40  | 62   | 6895     | 1.300  | ug/L # | 47     |
| 13) Acetone                | 2.31  | 43   | 90402    | 21.065 | ug/L   | 99     |
| 15) Methyl Acetate         | 2.61  | 43   | 7927     | 1.383  | ug/L   | 99     |
| 16) Methylene chloride     | 2.68  | 84   | 6499     | 1.668  | ug/L   | 89     |
| 20) cis-1,2-Dichloroethene | 4.20  | 96   | 5265     | 1.339  | ug/L   | 78     |
| 22) 2-Butanone             | 4.26  | 43   | 25967m   | 5.086  | ug/L   |        |
| 51) Chlorobenzene          | 9.10  | 112  | 39693    | 3.851  | ug/L   | 97     |
| 56) Isopropylbenzene       | 10.15 | 105  | 15779    | 0.875  | ug/L   | 98     |
| 62) 1,3-Dichlorobenzene    | 11.40 | 146  | 7434     | 1.067  | ug/L   | 95     |
| 63) 1,4-Dichlorobenzene    | 11.49 | 146  | 11703    | 1.648  | ug/L   | 80     |
| 65) 1,2-Dichlorobenzene    | 11.85 | 146  | 9195     | 1.306  | ug/L # | 84     |

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

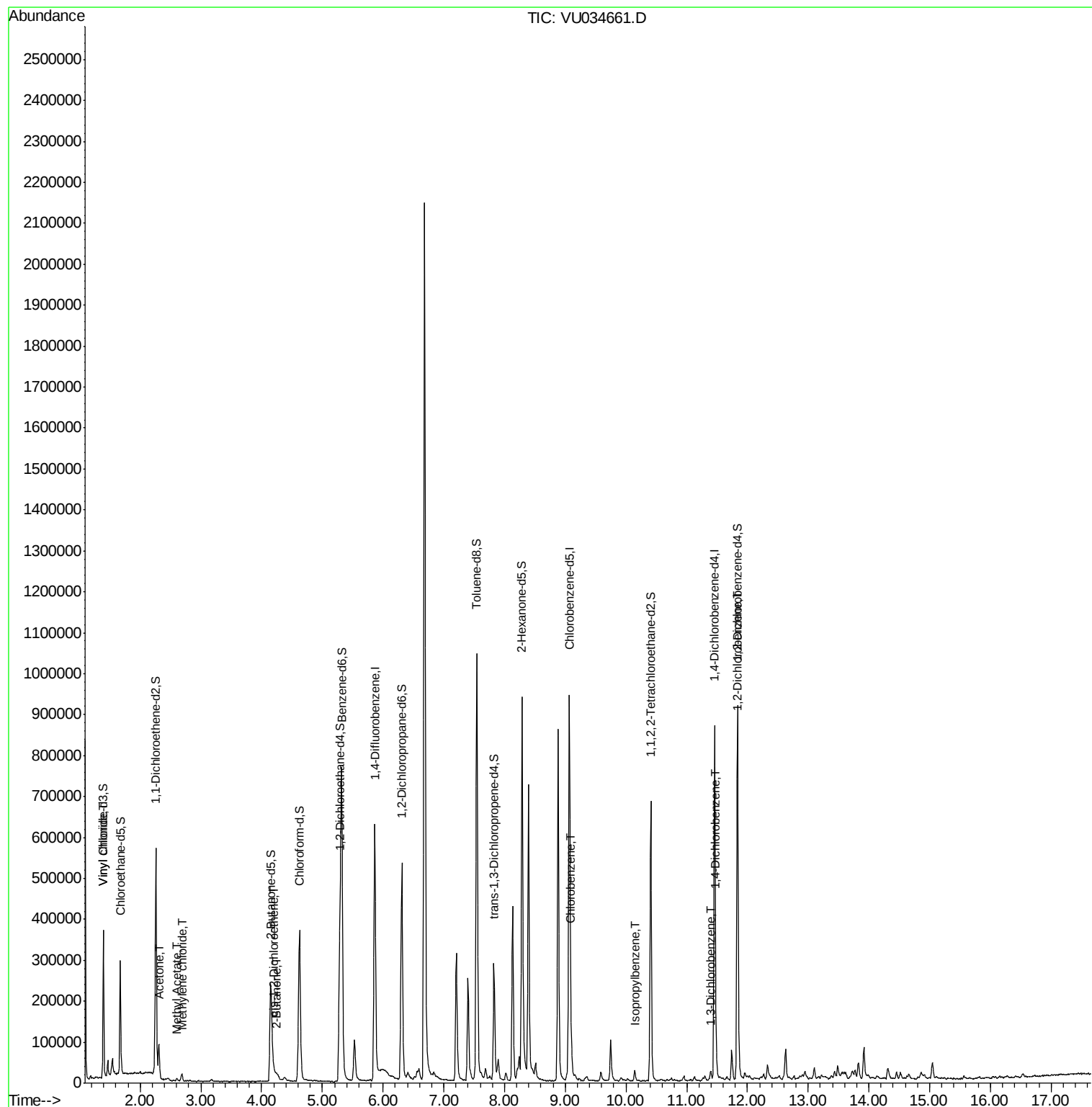
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091919\  
Data File : VU034661.D  
Acq On : 19 Sep 2019 21:03  
Operator : JC/SP  
Sample : K4895-07  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 16 Sample Multiplier: 1

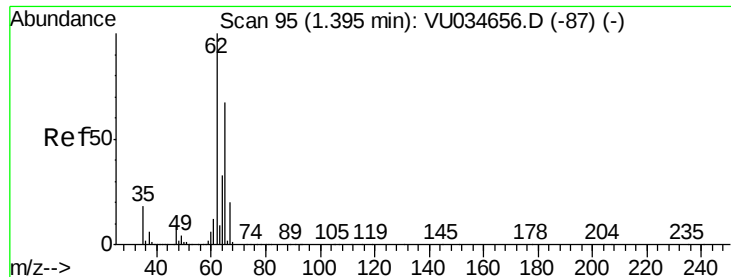
Instrument :  
MSVOA\_U  
ClientSampleId :  
BFDG2

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Quant Time: Sep 20 05:01:39 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Sep 20 04:02:05 2019  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 1.300 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU034661.D

Acq: 19 Sep 2019 21:03

Instrument :

MSVOA\_U

ClientSampleId :

BFDG2

Tot Ion: 62 Resp: 6895

Ion Ratio Lower Upper

62 100

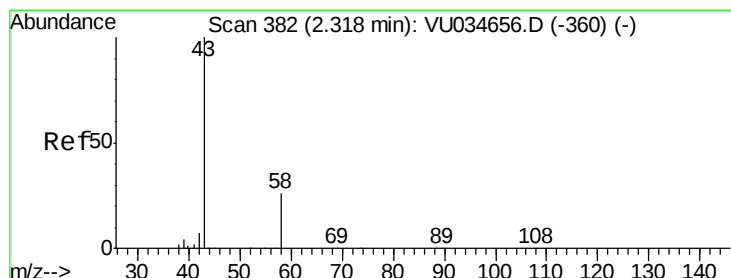
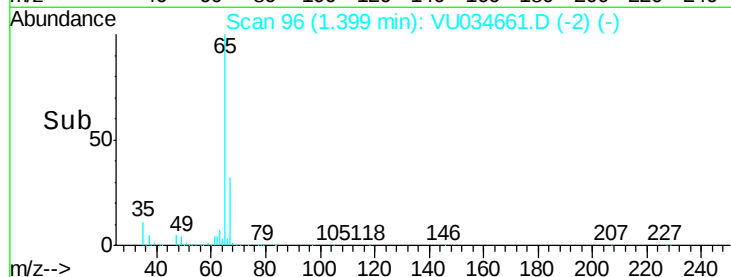
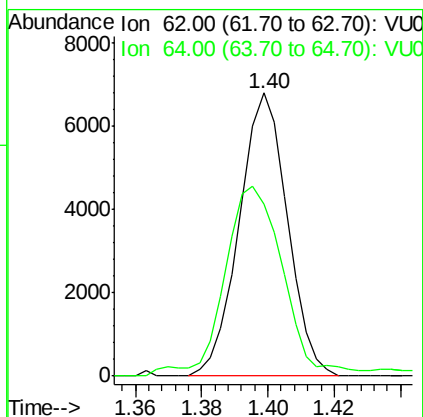
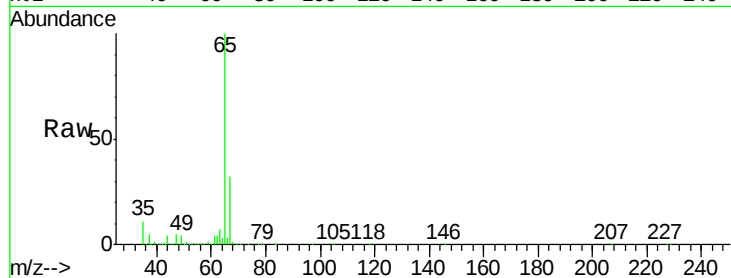
64 60.9 22.2 41.2#

Manual Integrations

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#13

Acetone

Concen: 21.065 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.01 min

Lab File: VU034661.D

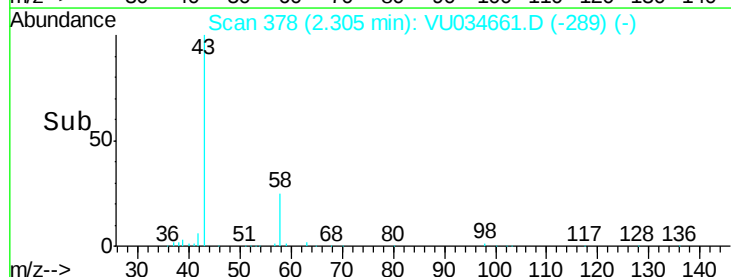
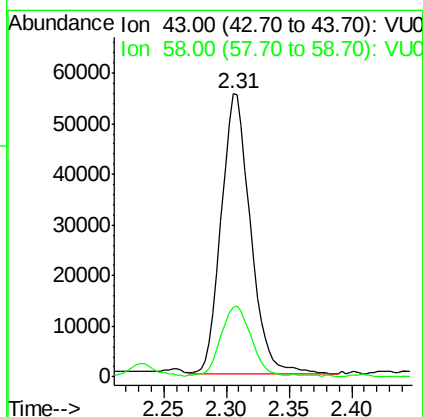
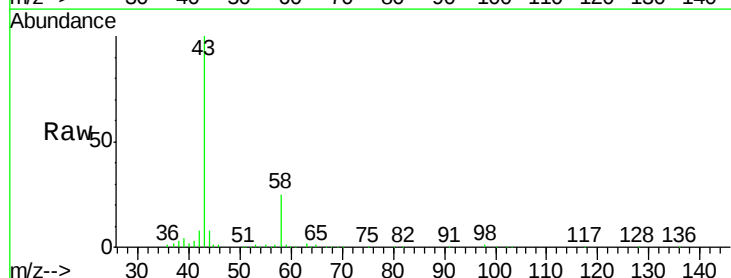
Acq: 19 Sep 2019 21:03

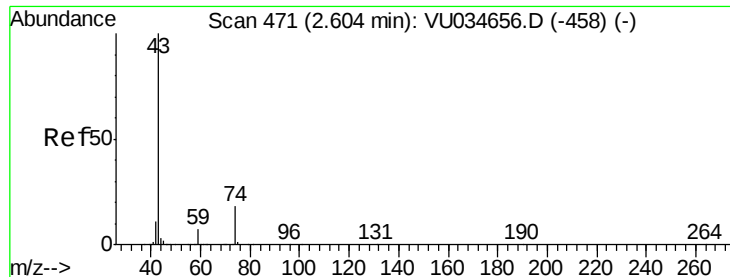
Tgt Ion: 43 Resp: 90402

Ion Ratio Lower Upper

43 100

58 26.4 0.0 53.4





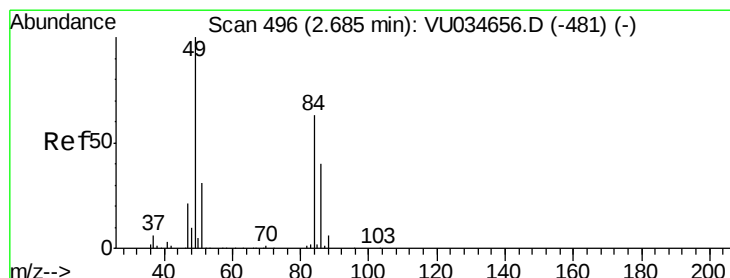
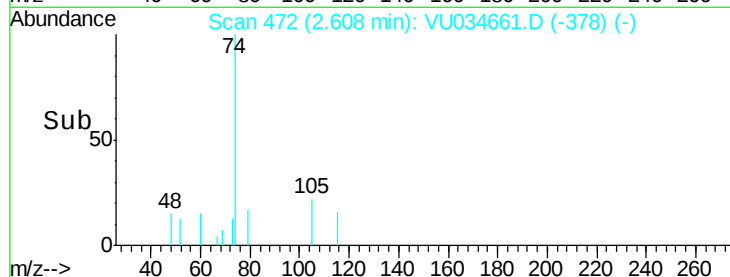
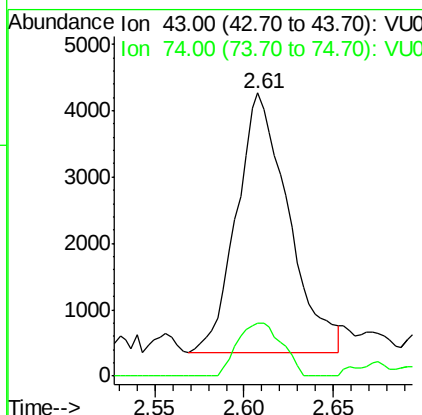
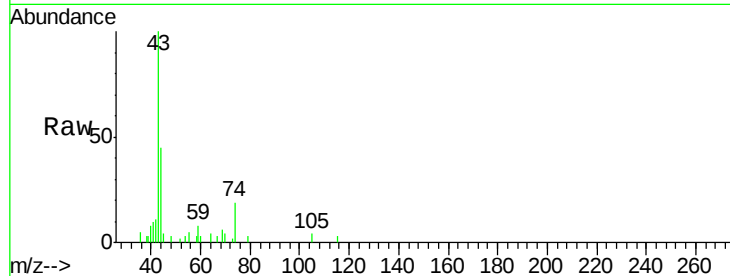
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Methyl Acetate  
Concen: 1.383 ug/L  
RT: 2.61 min Scan# 472  
Delta R.T. 0.00 min  
Lab File: VU034661.D  
Acq: 19 Sep 2019 21:03

Instrument :  
MSVOA\_U  
ClientSampled :  
BFDG2

| Tot Ion   | 43   | Resp  | 7927  |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 74        | 17.7 | 14.4  | 21.6  |

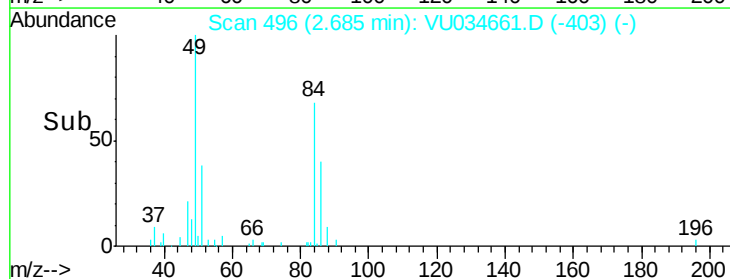
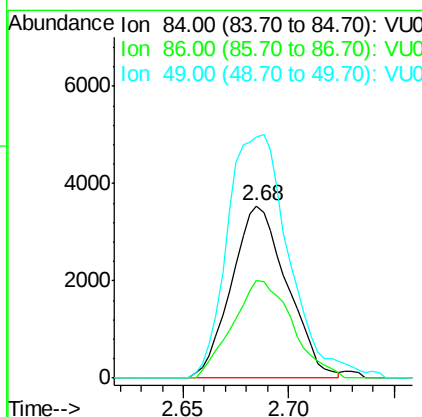
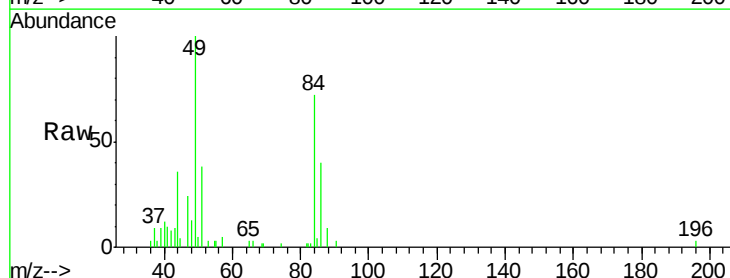
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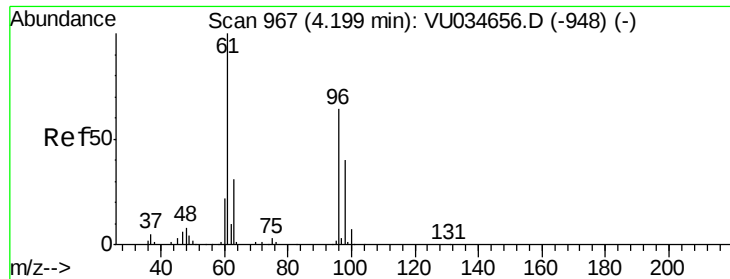
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#16  
Methylene chloride  
Concen: 1.668 ug/L  
RT: 2.68 min Scan# 496  
Delta R.T. -0.00 min  
Lab File: VU034661.D  
Acq: 19 Sep 2019 21:03

| Tgt Ion   | 84    | Resp  | 6499  |
|-----------|-------|-------|-------|
| Ion Ratio | 100   | Lower | Upper |
| 86        | 56.4  | 43.0  | 80.0  |
| 49        | 139.6 | 109.7 | 203.7 |





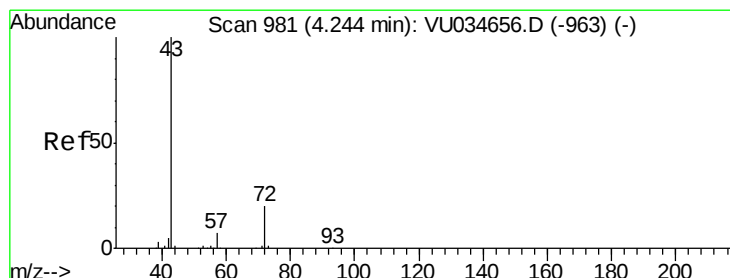
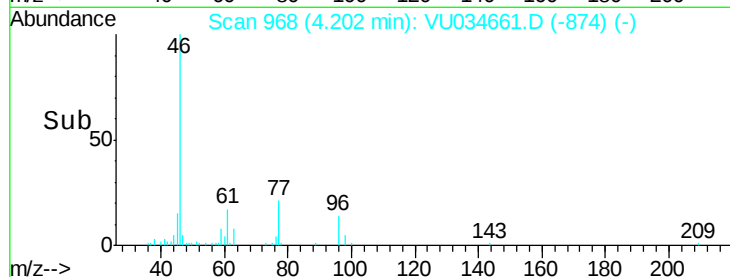
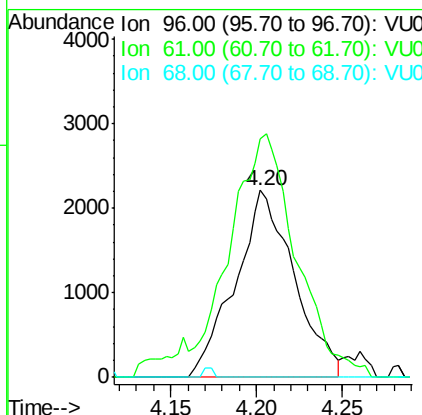
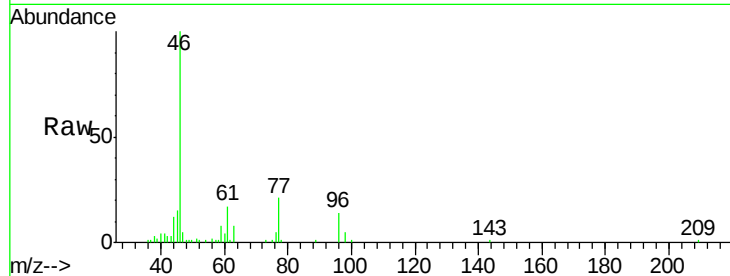
#20  
 cis-1,2-Dichloroethene  
 Concen: 1.339 ug/L  
 RT: 4.20 min Scan# 968  
 Delta R.T. 0.00 min  
 Lab File: VU034661.D  
 Acq: 19 Sep 2019 21:03

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFDG2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 127.3 | 108.8 | 202.2 |
| 68      | 0.0   | 0.0   | 0.0   |

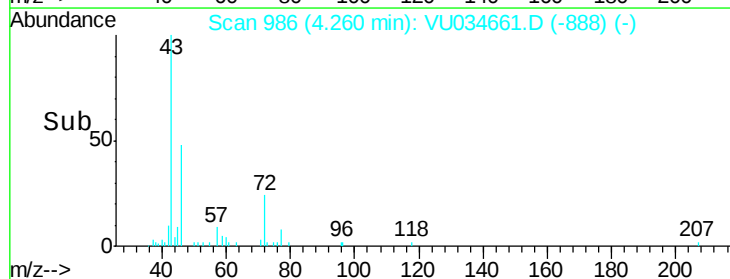
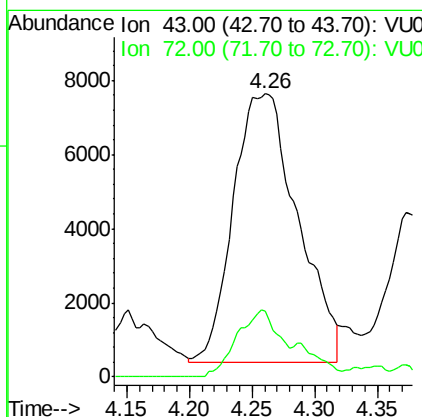
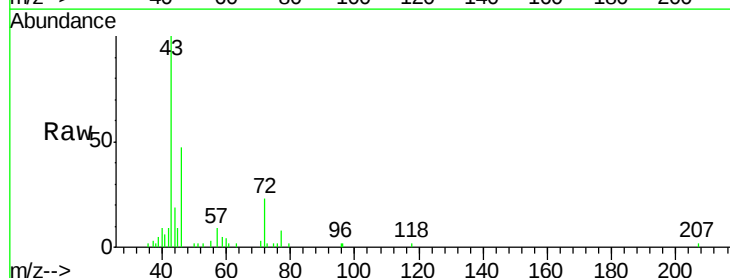
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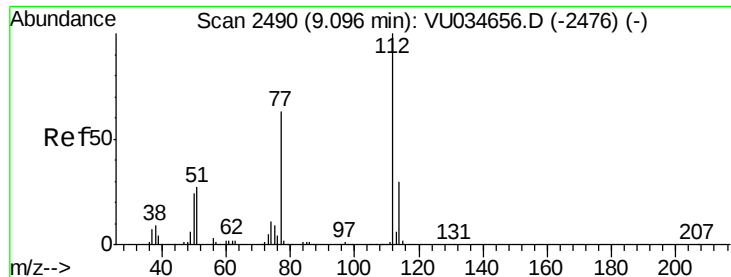
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#22  
 2-Butanone  
 Concen: 5.086 ug/L m  
 RT: 4.26 min Scan# 986  
 Delta R.T. 0.02 min  
 Lab File: VU034661.D  
 Acq: 19 Sep 2019 21:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 0.2   | 10.2  | 30.6# |





#51

Chlorobenzene

Concen: 3.851 ug/L

RT: 9.10 min Scan# 2490

Delta R.T. -0.00 min

Lab File: VU034661.D

Acq: 19 Sep 2019 21:03

Instrument :

MSVOA\_U

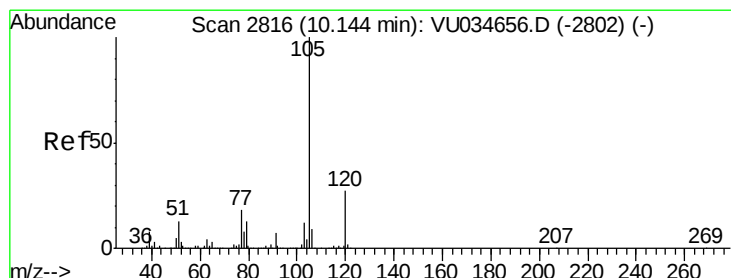
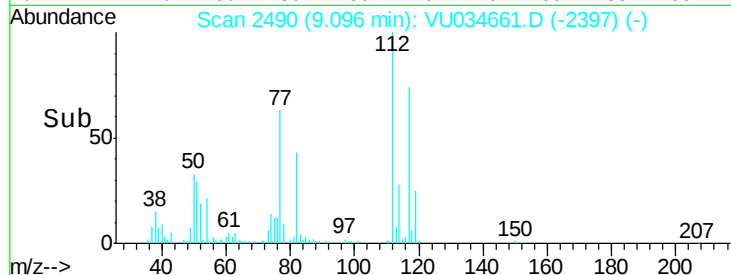
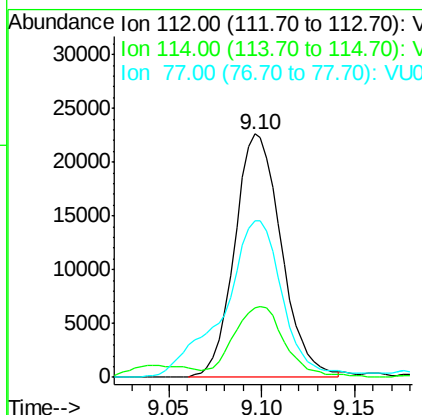
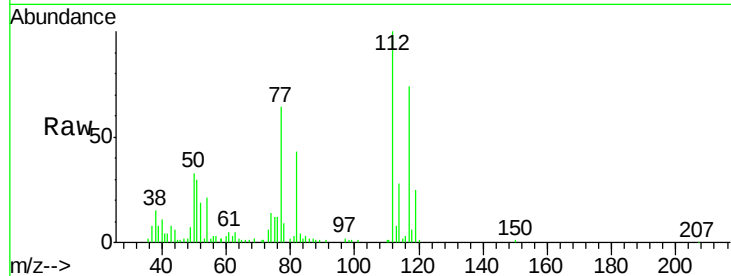
ClientSampleId :

BFDG2

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 112   | Resp: | 39693 |
| Ion Ratio | Lower | Upper |       |
| 112       | 100   |       |       |
| 114       | 28.4  | 22.8  | 42.4  |
| 77        | 64.3  | 51.5  | 77.3  |

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#56

Isopropylbenzene

Concen: 0.875 ug/L

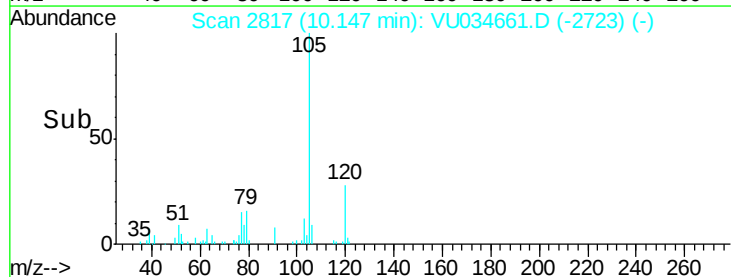
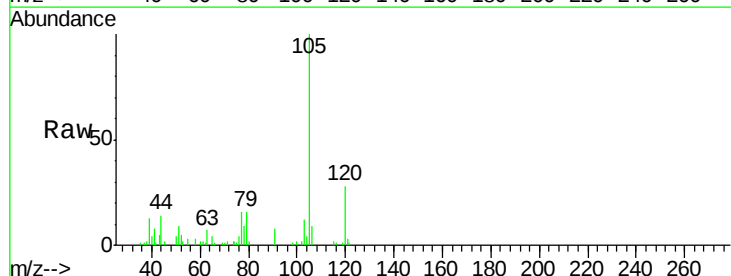
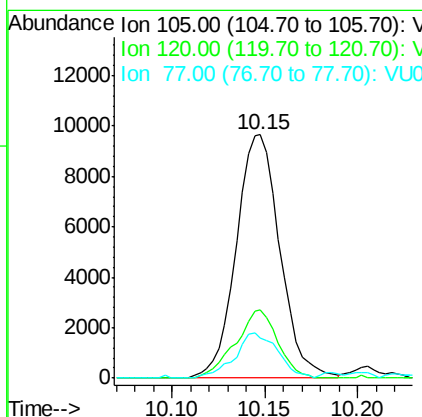
RT: 10.15 min Scan# 2817

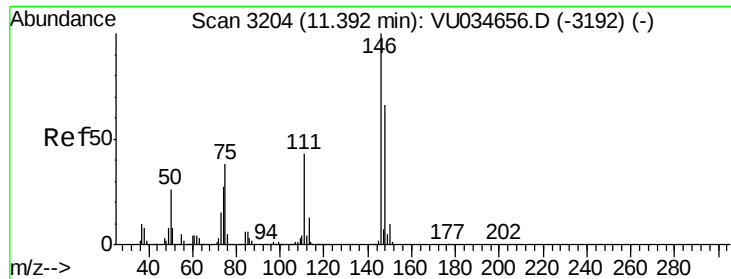
Delta R.T. 0.00 min

Lab File: VU034661.D

Acq: 19 Sep 2019 21:03

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 15779 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 26.9  | 20.4  | 30.6  |
| 77        | 18.3  | 14.2  | 21.4  |





#62

1,3-Dichlorobenzene

Concen: 1.067 ug/L

RT: 11.40 min Scan# 3206

Delta R.T. 0.01 min

Lab File: VU034661.D

Acq: 19 Sep 2019 21:03

Instrument :

MSVOA\_U

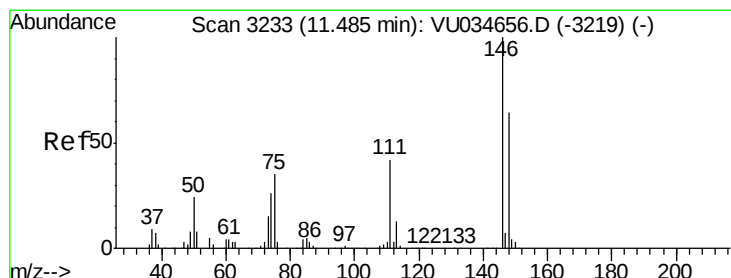
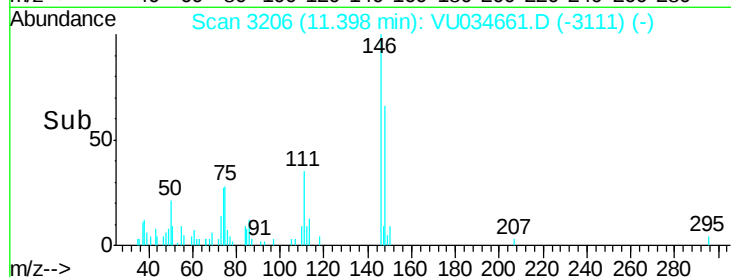
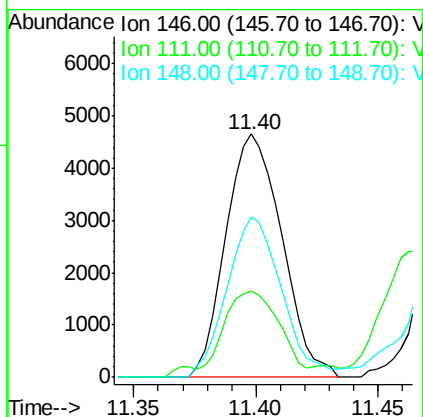
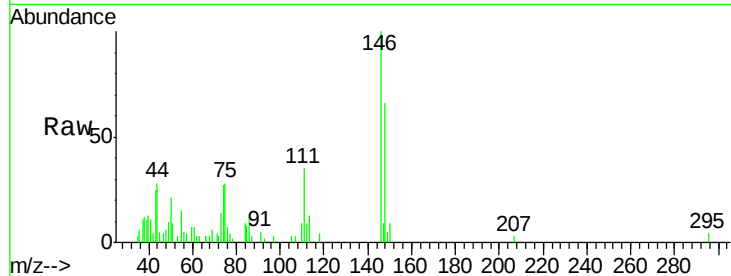
ClientSampled :

BFDG2

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 146   | Resp: | 7434 |
| Ion Ratio | Lower | Upper |      |
| 146       | 100   |       |      |
| 111       | 35.5  | 30.4  | 56.5 |
| 148       | 65.6  | 46.1  | 85.7 |

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#63

1,4-Dichlorobenzene

Concen: 1.648 ug/L

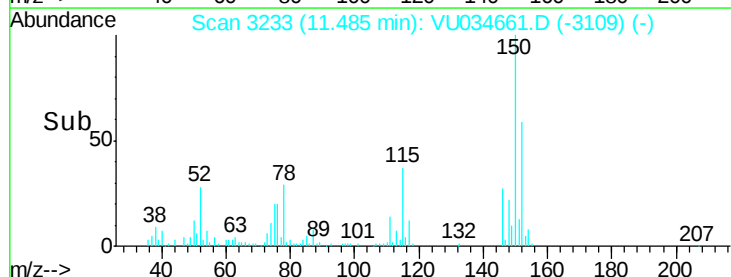
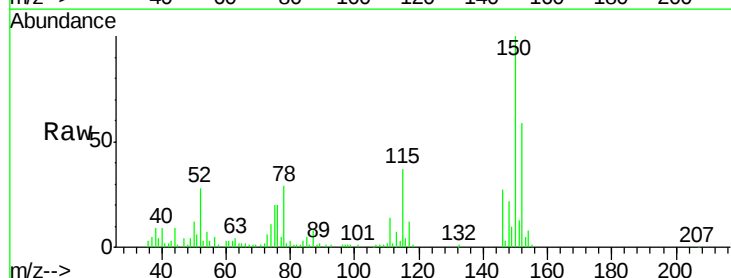
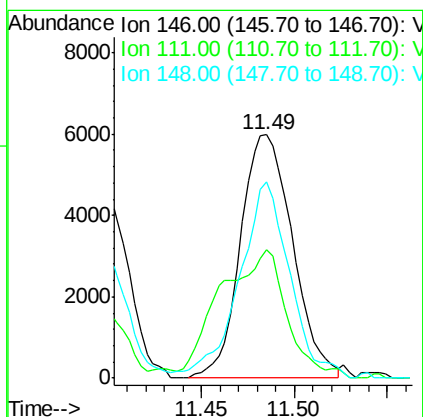
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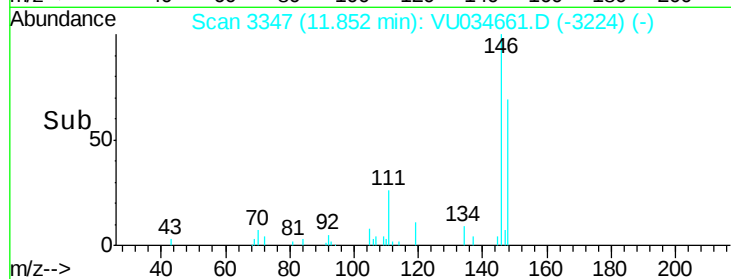
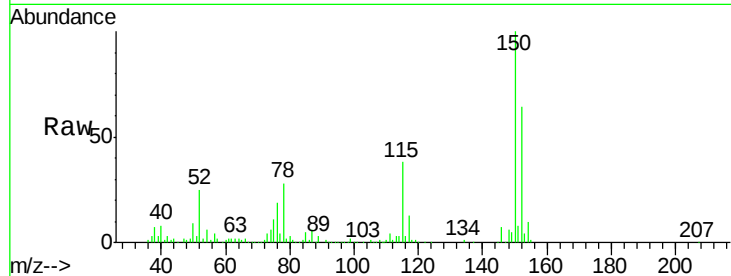
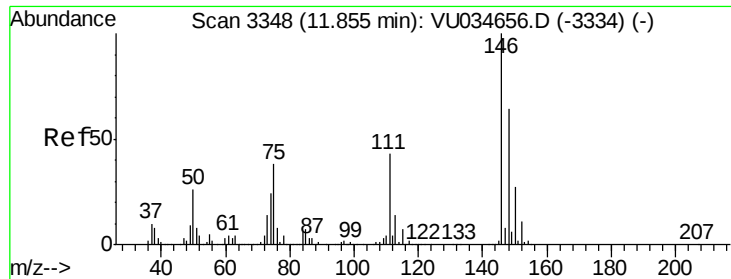
Delta R.T. -0.00 min

Lab File: VU034661.D

Acq: 19 Sep 2019 21:03

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 11703 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 52.8  | 29.5  | 54.9  |
| 148       | 80.7  | 44.4  | 82.4  |





#65  
 1,2-Dichlorobenzene  
 Concen: 1.306 ug/L  
 RT: 11.85 min Scan# 3347  
 Delta R.T. -0.00 min  
 Lab File: VU034661.D  
 Acq: 19 Sep 2019 21:03

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFDG2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 57.8  | 35.2  | 52.8# |
| 148     | 76.1  | 53.0  | 79.6  |

Manual Integrations  
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 9/20/2019 12:43:42 PM

