

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW080320\  
 Data File : VW016029.D  
 Acq On : 03 Aug 2020 12:43  
 Operator : SY/VA  
 Sample : L3533-01  
 Misc : 3.22G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 CB7H4

Manual Integrations  
 APPROVED

MMDadoda  
 8/5/2020 2:40:03 PM

Quant Time: Aug 04 04:56:24 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM072020S.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Aug 04 03:35:29 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 403052   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 318547   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 91717    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 111629   | 19.63    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 78.52%  |
| 7) Chloroethane-d5             | 2.90   | 69    | 97130    | 21.03    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 84.12%  |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 177166   | 15.41    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 61.64%  |
| 20) 2-Butanone-d5              | 7.09   | 46    | 54506    | 36.48    | ug/L | 0.01    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 72.96%  |
| 24) Chloroform-d               | 7.65   | 84    | 237752   | 21.00    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 84.00%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 118770   | 19.11    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 76.44%  |
| 29) Benzene-d6                 | 8.28   | 84    | 482373   | 24.88    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 99.52%  |
| 33) 1,2-Dichloropropane-d6     | 9.28   | 67    | 149187   | 25.66    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 102.64% |
| 37) Toluene-d8                 | 10.33  | 98    | 399538   | 22.75    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 91.00%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 52405    | 21.15    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 84.60%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 42297    | 43.70    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 87.40%  |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 87688    | 19.63    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 78.52%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 77054    | 21.55    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 86.20%  |

## Target Compounds

|                         |       |     |       |              | Qvalue |
|-------------------------|-------|-----|-------|--------------|--------|
| 13) Acetone             | 4.14  | 43  | 8029  | 6.400 ug/L   | 91     |
| 14) Carbon disulfide    | 4.38  | 76  | 7508  | 0.459 ug/L   | 98     |
| 16) Methylene chloride  | 4.92  | 84  | 36858 | 5.581 ug/L   | 93     |
| 21) 2-Butanone          | 7.18  | 43  | 4298m | 2.770 ug/L   |        |
| 35) Trichloroethene     | 9.10  | 95  | 2725  | 0.532 ug/L   | 96     |
| 36) Methylcyclohexane   | 9.34  | 83  | 17022 | 1.938 ug/L # | 77     |
| 52) Chlorobenzene       | 11.66 | 112 | 6335  | 0.487 ug/L   | 98     |
| 54) m,p-Xylene          | 11.84 | 106 | 3204  | 0.375 ug/L # | 43     |
| 57) Isopropylbenzene    | 12.47 | 105 | 13688 | 0.626 ug/L # | 69     |
| 63) 1,3-Dichlorobenzene | 13.51 | 146 | 1800  | 0.307 ug/L # | 32     |
| 64) 1,4-Dichlorobenzene | 13.58 | 146 | 2764  | 0.464 ug/L # | 1      |
| 65) 1,2-Dichlorobenzene | 13.87 | 146 | 4841  | 0.908 ug/L # | 61     |

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

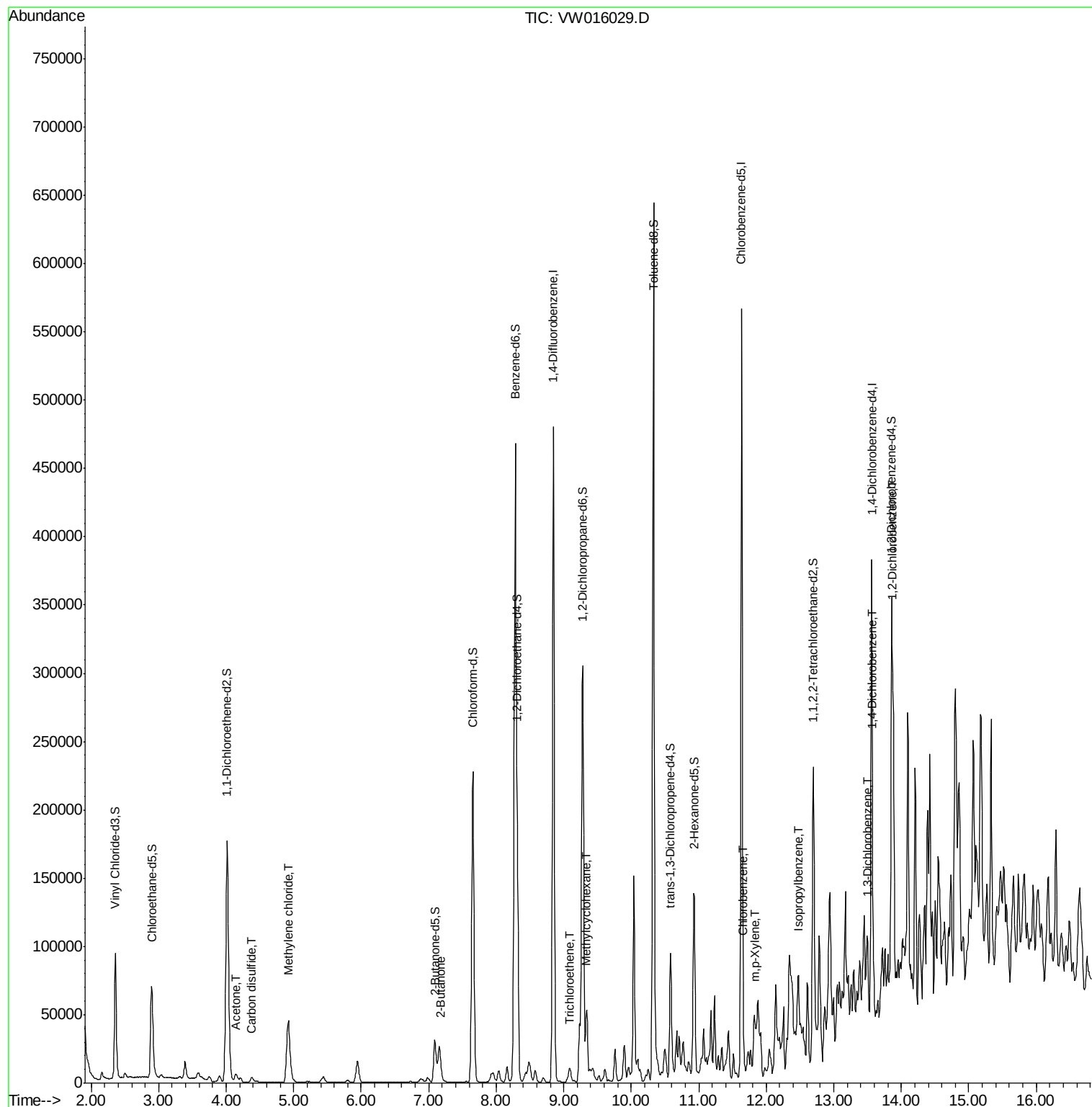
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW080320\  
Data File : VW016029.D  
Acq On : 03 Aug 2020 12:43  
Operator : SY/VA  
Sample : L3533-01  
Misc : 3.22G/10ML/MSVOA\_W/SOIL  
ALS Vial : 5 Sample Multiplier: 1

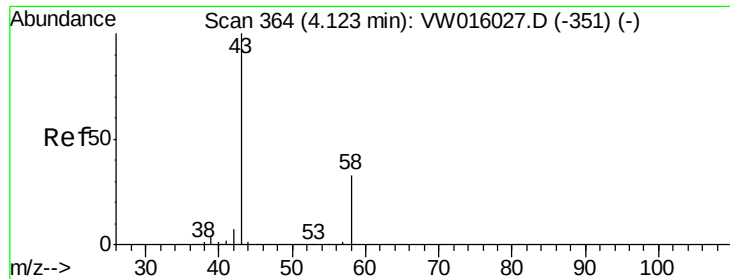
Instrument :  
MSVOA\_W  
ClientSampleId :  
CB7H4

Manual Integrations  
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8/5/2020 2:40:03 PM

Quant Time: Aug 04 04:56:24 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM072020S.M  
Quant Title : VOC Analysis  
QLast Update : Tue Aug 04 03:35:29 2020  
Response via : Initial Calibration





#13

Acetone

Concen: 6.400 ug/L

RT: 4.14 min Scan# 367

Delta R.T. 0.02 min

Lab File: VW016029.D

Acq: 03 Aug 2020 12:43

Instrument :

MSVOA\_W

ClientSampled :

CB7H4

Tgt Ion: 43 Resp: 8029

Ion Ratio Lower Upper

43 100

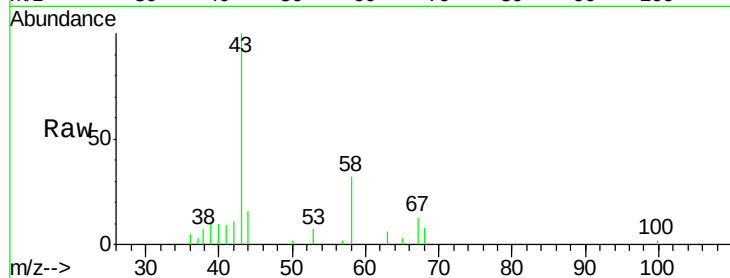
58 33.8 0.0 58.2

Manual Integrations

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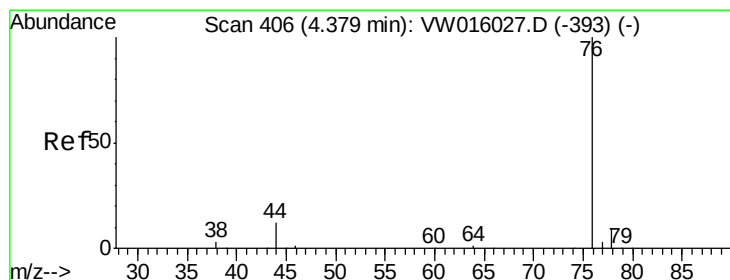
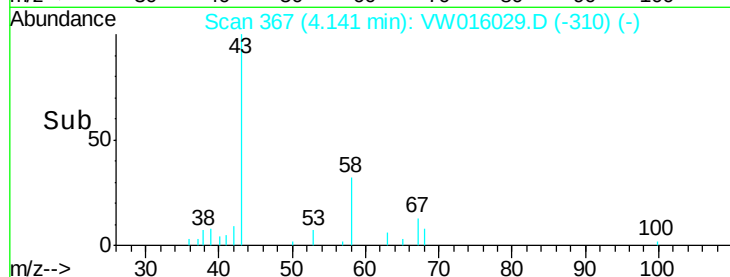
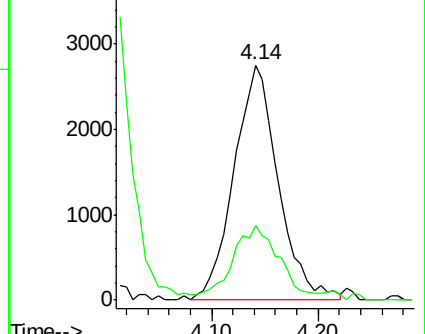
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Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 0.459 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.00 min

Lab File: VW016029.D

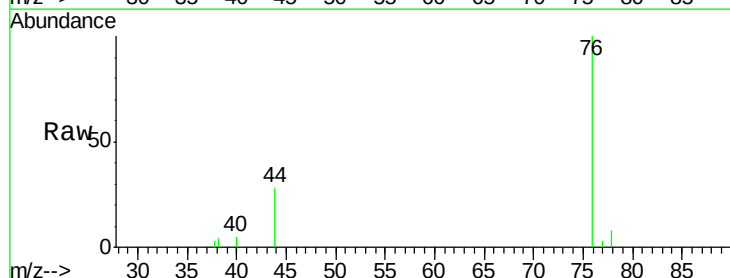
Acq: 03 Aug 2020 12:43

Tgt Ion: 76 Resp: 7508

Ion Ratio Lower Upper

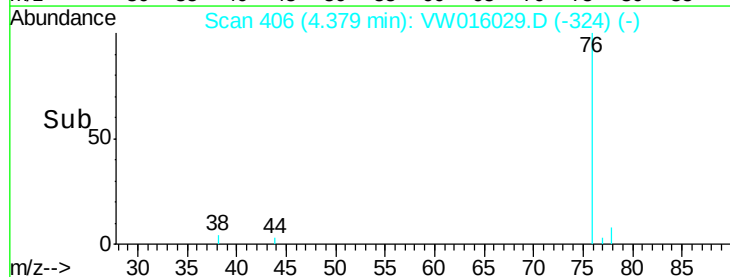
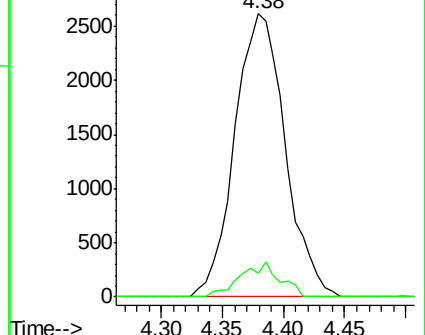
76 100

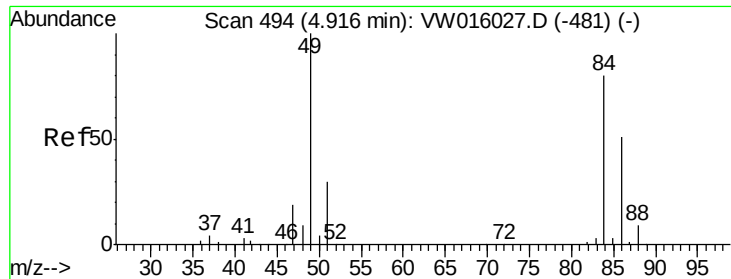
78 8.1 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW





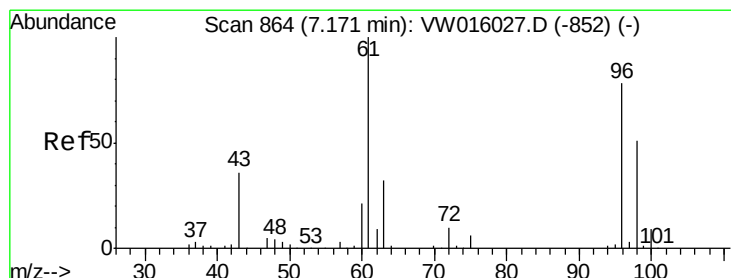
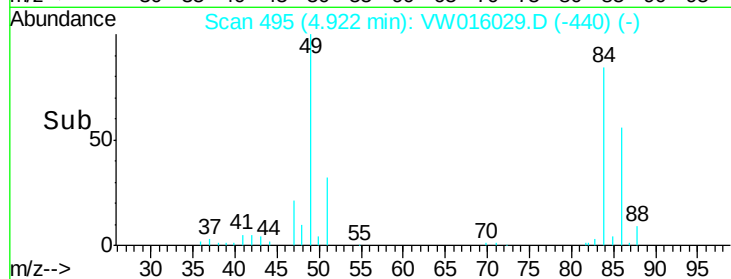
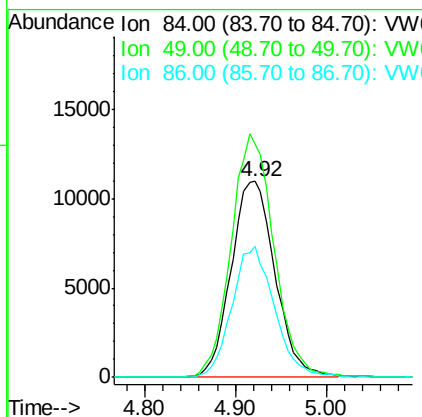
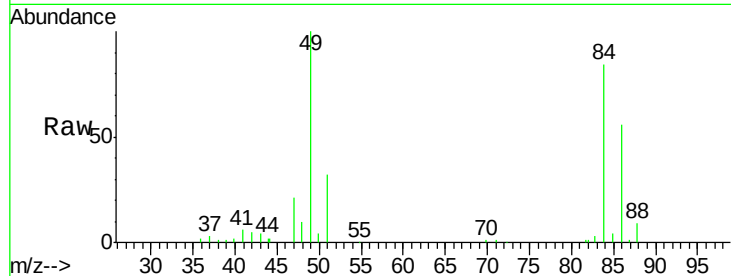
#16  
Methylene chloride  
Concen: 5.581 ug/L  
RT: 4.92 min Scan# 495  
Delta R.T. 0.01 min  
Lab File: VW016029.D  
Acq: 03 Aug 2020 12:43

Instrument :  
MSVOA\_W  
ClientSampleId :  
CB7H4

Tgt Ion: 84 Resp: 36858  
Ion Ratio Lower Upper  
84 100  
49 119.2 91.1 169.1  
86 66.9 46.0 85.4

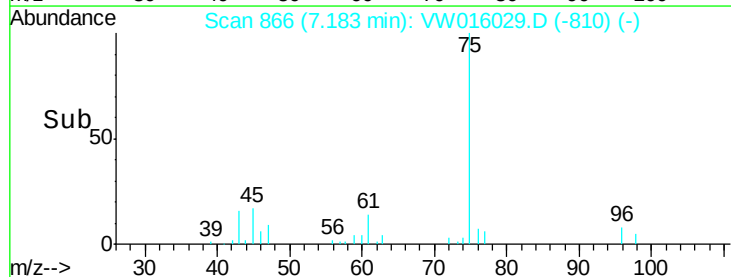
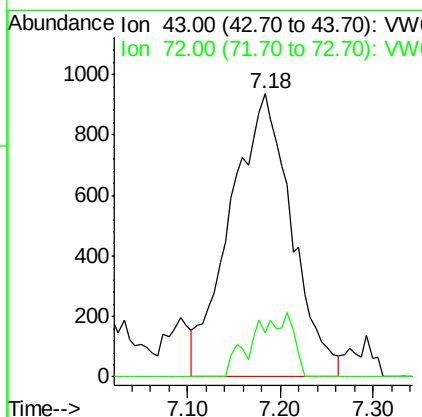
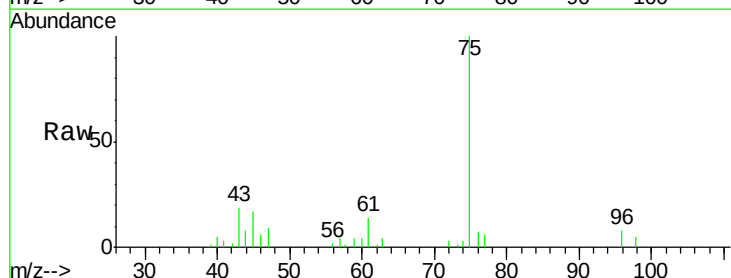
Manual Integrations  
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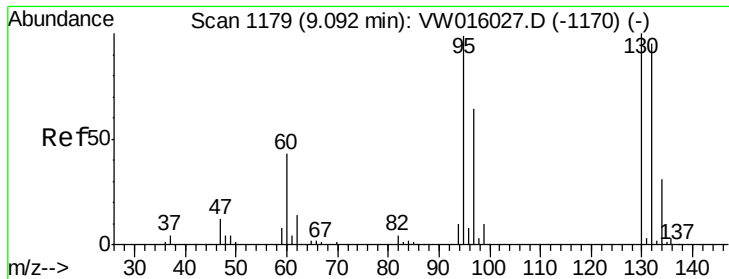
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#21  
2-Butanone  
Concen: 2.770 ug/L m  
RT: 7.18 min Scan# 866  
Delta R.T. 0.01 min  
Lab File: VW016029.D  
Acq: 03 Aug 2020 12:43

Tgt Ion: 43 Resp: 4298  
Ion Ratio Lower Upper  
43 100  
72 3.9 13.9 41.7#





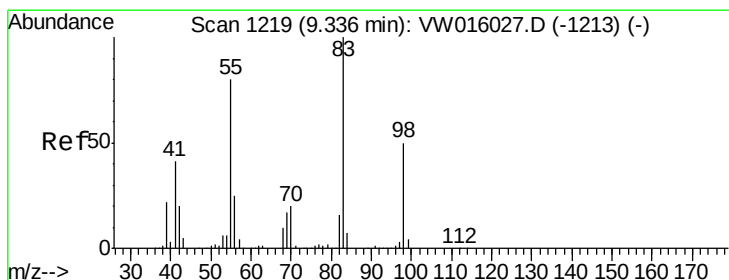
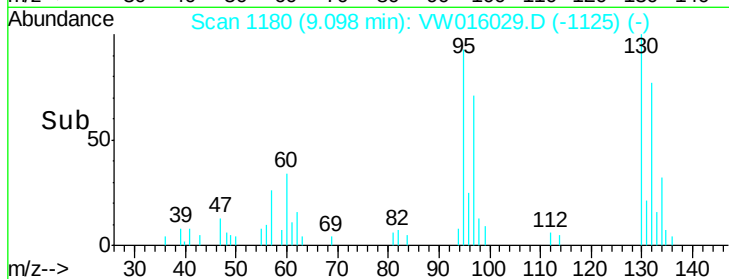
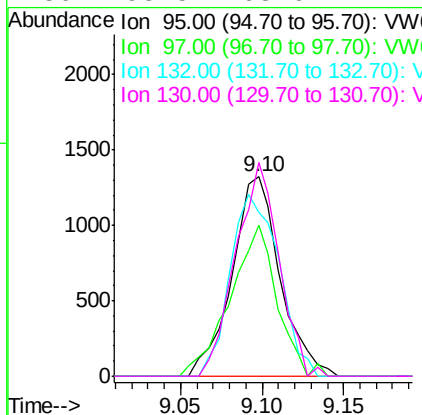
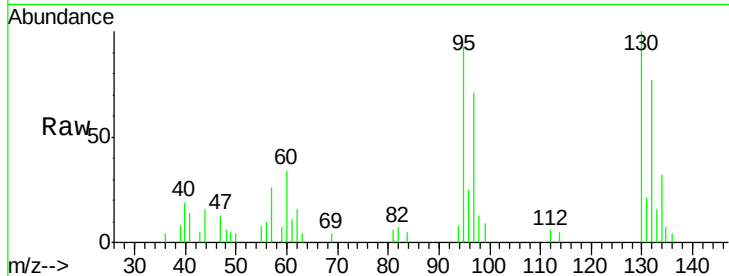
#35  
 Trichloroethene  
 Concen: 0.532 ug/L  
 RT: 9.10 min Scan# 1180  
 Delta R.T. 0.01 min  
 Lab File: VW016029.D  
 Acq: 03 Aug 2020 12:43

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 CB7H4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 97      | 72.9  | 44.4  | 82.4  |
| 132     | 92.2  | 65.1  | 120.9 |
| 130     | 95.5  | 68.6  | 127.4 |

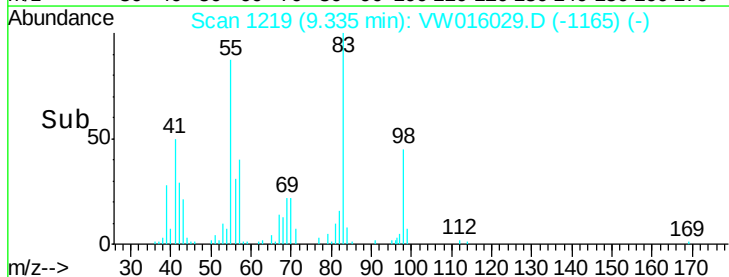
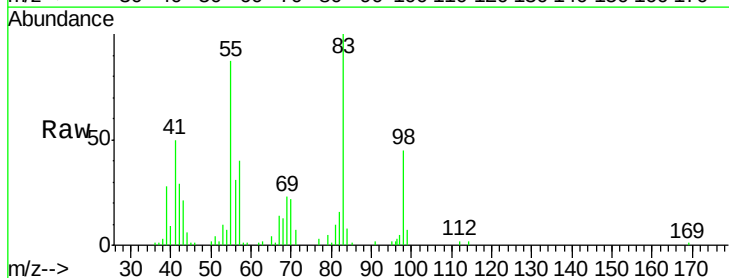
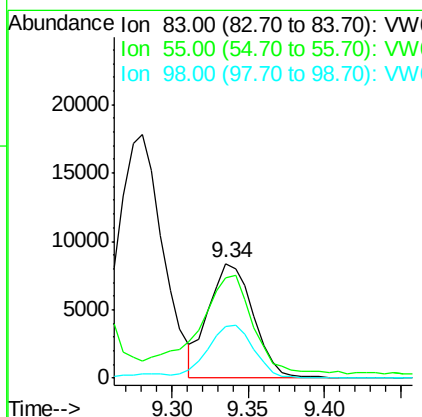
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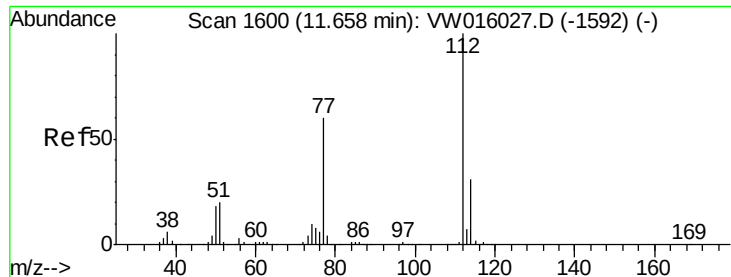
MMDadoda  
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#36  
 Methylcyclohexane  
 Concen: 1.938 ug/L  
 RT: 9.34 min Scan# 1219  
 Delta R.T. -0.00 min  
 Lab File: VW016029.D  
 Acq: 03 Aug 2020 12:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 110.9 | 63.5  | 95.3# |
| 98      | 47.6  | 39.0  | 58.4  |





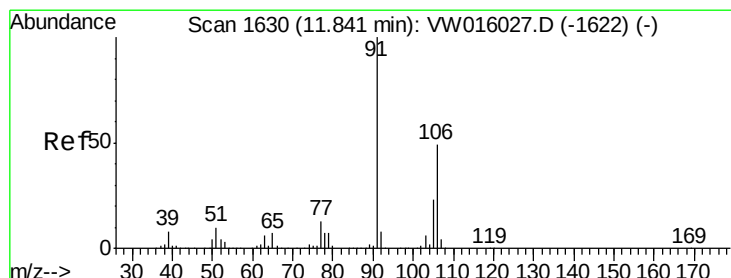
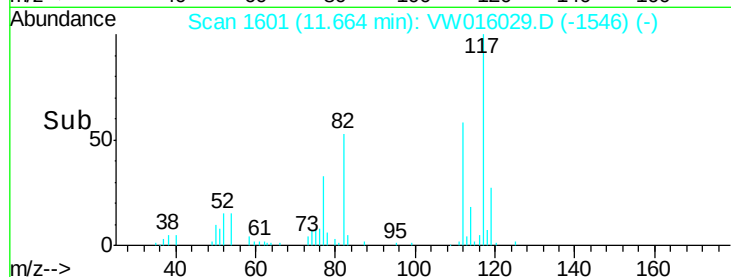
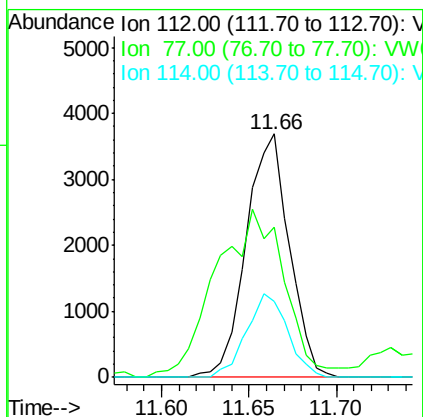
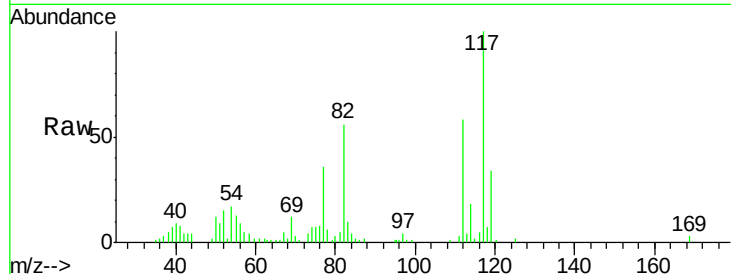
#52  
Chlorobenzene  
Concen: 0.487 ug/L  
RT: 11.66 min Scan# 1601  
Delta R.T. 0.01 min  
Lab File: VW016029.D  
Acq: 03 Aug 2020 12:43

Instrument :  
MSVOA\_W  
ClientSampled :  
CB7H4

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 112     | 100   | 6335 |       |       |
| 77      | 61.5  | 47.8 | 71.6  |       |
| 114     | 31.4  | 22.1 | 41.1  |       |

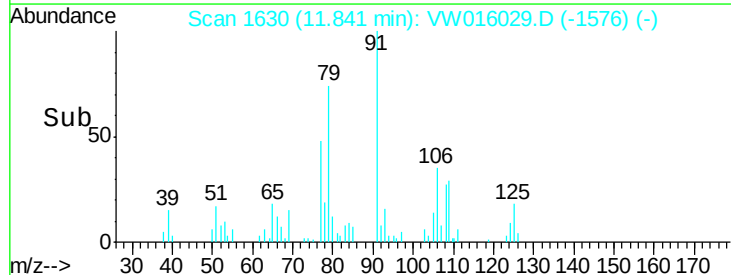
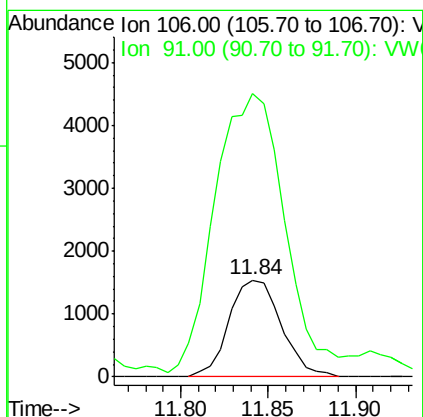
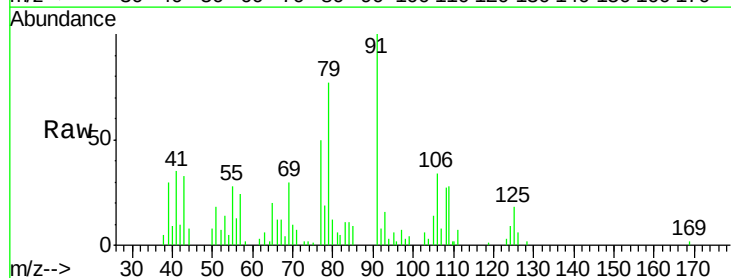
Manual Integrations  
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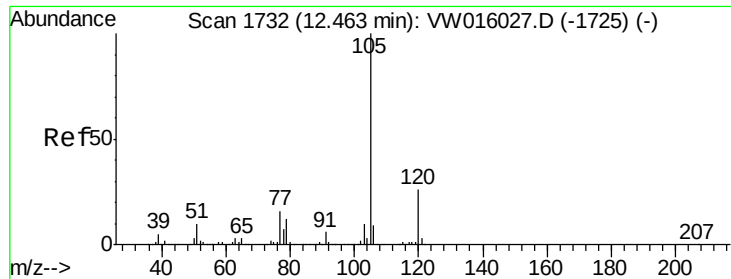
MMDadoda  
8/5/2020 2:40:03 PM



#54  
m,p-Xylene  
Concen: 0.375 ug/L  
RT: 11.84 min Scan# 1630  
Delta R.T. -0.00 min  
Lab File: VW016029.D  
Acq: 03 Aug 2020 12:43

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 106     | 100   | 3204  |       |       |
| 91      | 293.1 | 144.1 | 267.5 |       |





#57

Isopropylbenzene

Concen: 0.626 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW016029.D

Acq: 03 Aug 2020 12:43

Instrument :

MSVOA\_W

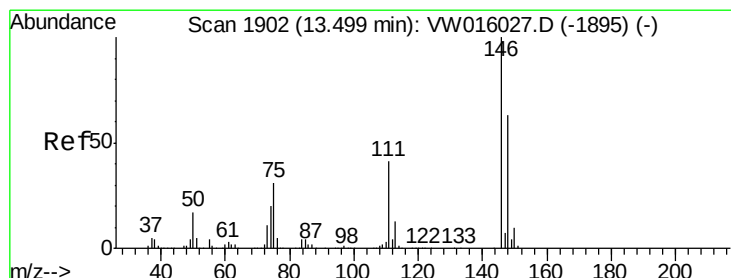
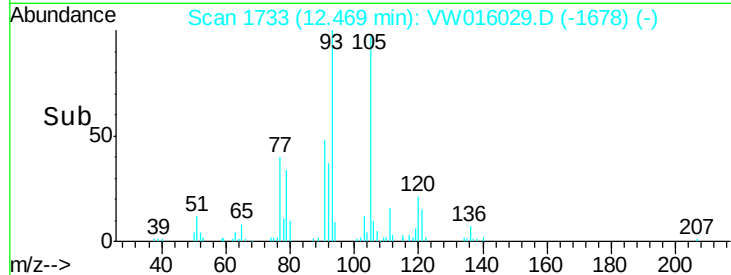
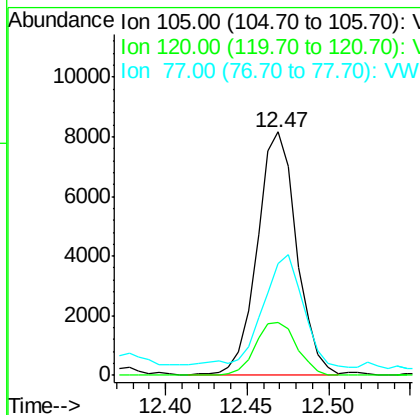
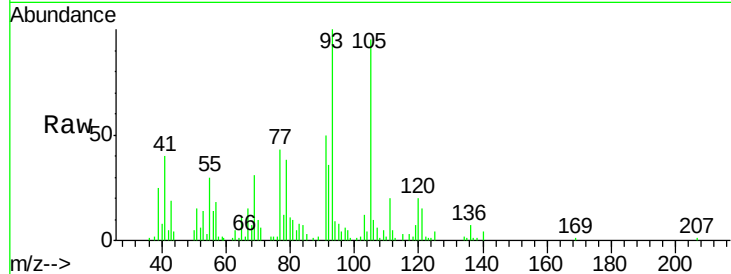
ClientSampled :

CB7H4

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 13688 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 22.6  | 20.4  | 30.6  |
| 77        | 45.9  | 12.9  | 19.3# |

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8/5/2020 2:40:03 PM



#63

1,3-Dichlorobenzene

Concen: 0.307 ug/L

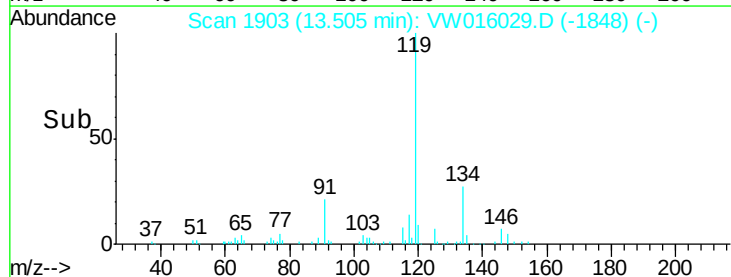
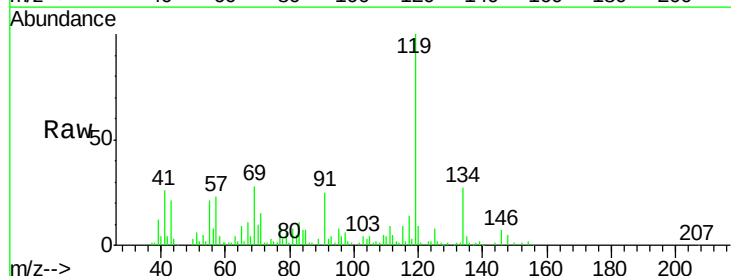
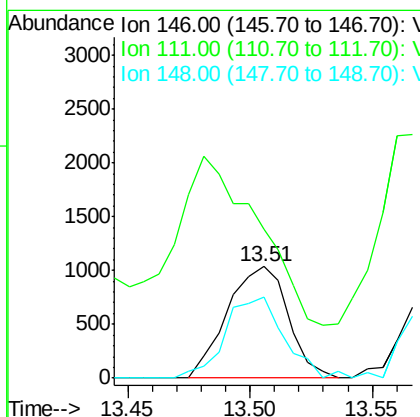
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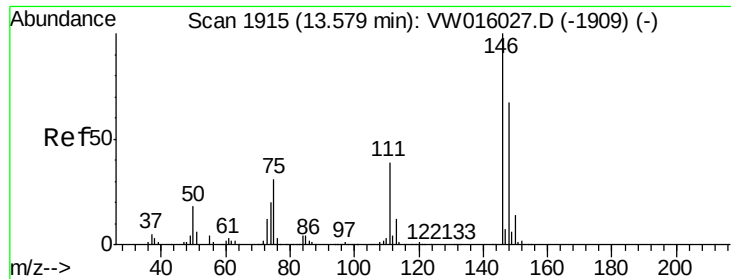
Delta R.T. 0.01 min

Lab File: VW016029.D

Acq: 03 Aug 2020 12:43

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 1800  |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 133.7 | 27.9  | 51.7# |
| 148       | 72.2  | 43.2  | 80.2  |





#64

1,4-Dichlorobenzene

Concen: 0.464 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW016029.D

Acq: 03 Aug 2020 12:43

Instrument :

MSVOA\_W

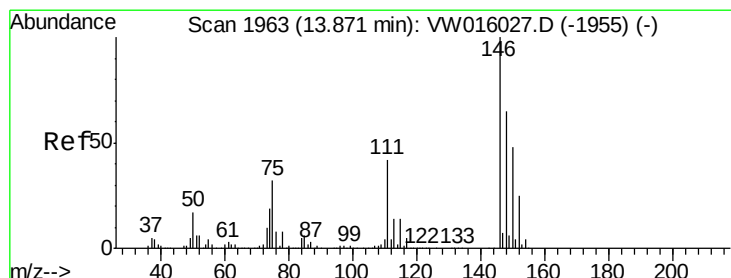
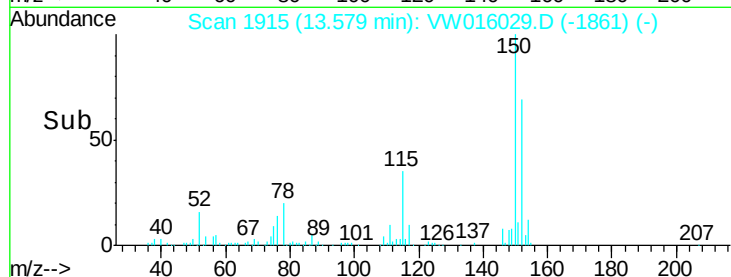
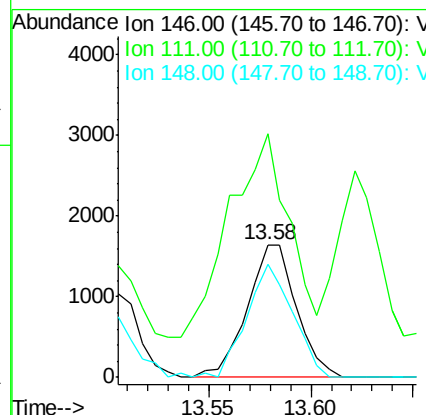
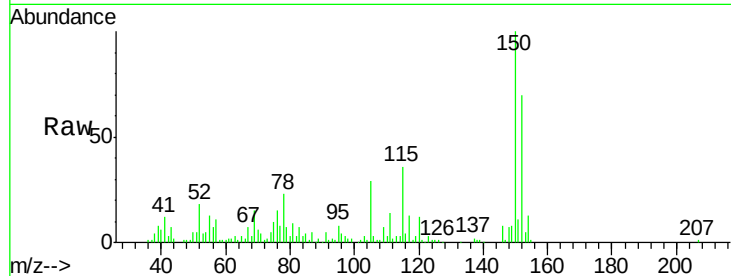
ClientSampleId :

CB7H4

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 2764  |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 184.1 | 29.3  | 54.3# |
| 148       | 85.2  | 44.5  | 82.7# |

Manual Integrations  
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8/5/2020 2:40:03 PM



#65

1,2-Dichlorobenzene

Concen: 0.908 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW016029.D

Acq: 03 Aug 2020 12:43

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 4841  |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 96.0  | 32.9  | 49.3# |
| 148       | 65.7  | 48.8  | 73.2  |

