

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW081320\  
 Data File : VW016178.D  
 Acq On : 13 Aug 2020 13:51  
 Operator : SY/VA  
 Sample : L3599-19  
 Misc : 5.99G/10ML/MSVOA W/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 GAYA1

Manual Integrations  
 APPROVED

MMDadoda  
 8/14/2020 5:11:37 PM

Quant Time: Aug 14 15:02:59 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM081020S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Aug 14 06:19:29 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.93  | 114  | 335980m  | 25.00 | ug/L  | 0.09     |
| 28) Chlorobenzene-d5       | 11.64 | 117  | 243790   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 56875    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 93685    | 22.49    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 89.96%   |
| 7) Chloroethane-d5             | 2.89   | 69    | 63818    | 20.18    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 80.72%   |
| 10) 1,1-Dichloroethene-d2      | 4.04   | 63    | 770860   | 87.13    | ug/L | 0.03     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 348.52%# |
| 20) 2-Butanone-d5              | 7.12   | 46    | 48846    | 44.56    | ug/L | 0.04     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 89.12%   |
| 24) Chloroform-d               | 7.67   | 84    | 165978   | 18.41    | ug/L | 0.02     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 73.64%   |
| 26) 1,2-Dichloroethane-d4      | 8.33   | 65    | 94088    | 19.65    | ug/L | 0.02     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 78.60%   |
| 29) Benzene-d6                 | 8.32   | 84    | 347641   | 26.21    | ug/L | 0.05     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 104.84%  |
| 33) 1,2-Dichloropropane-d6     | 9.38   | 67    | 108710   | 27.87    | ug/L | 0.11     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 111.48%  |
| 37) Toluene-d8                 | 10.34  | 98    | 281625   | 23.15    | ug/L | 0.02     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 92.60%   |
| 38) trans-1,3-Dichloropropene- | 10.59  | 79    | 41142    | 23.47    | ug/L | 0.01     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 93.88%   |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 38895    | 57.81    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 115.62%  |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 56216    | 17.71    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 70.84%   |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 35997    | 17.86    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 71.44%#  |

## Target Compounds

|                              |       |     |            |           | Ovalue  |
|------------------------------|-------|-----|------------|-----------|---------|
| 5) Vinyl chloride            | 2.36  | 62  | 164731     | 36.824    | ug/L 99 |
| 12) 1,1-Dichloroethene       | 4.05  | 96  | 1276983m   | 296.132   | ug/L    |
| 13) Acetone                  | 4.15  | 43  | 15527m     | 18.726    | ug/L    |
| 18) trans-1,2-Dichloroethene | 5.45  | 96  | 454306     | 100.156   | ug/L 89 |
| 19) 1,1-Dichloroethane       | 6.24  | 63  | 578036     | 72.024    | ug/L 98 |
| 22) cis-1,2-Dichloroethene   | 7.18  | 96  | 25611221   | 5352.222  | ug/L 94 |
| 25) Chloroform               | 7.70  | 83  | 15774      | 1.847     | ug/L 90 |
| 31) 1,1,1-Trichloroethane    | 7.89  | 97  | 525461     | 93.800    | ug/L 99 |
| 34) Benzene                  | 8.35  | 78  | 16741m     | 1.191     | ug/L    |
| 35) Trichloroethene          | 9.15  | 95  | 105262087m | 27845.575 | ug/L    |
| 44) Toluene                  | 10.40 | 91  | 6656393    | 448.530   | ug/L 97 |
| 46) 1,1,2-Trichloroethane    | 10.80 | 97  | 69009      | 25.393    | ug/L 95 |
| 47) Tetrachloroethene        | 10.87 | 164 | 686708     | 242.317   | ug/L 99 |
| 53) Ethylbenzene             | 11.74 | 91  | 3074363    | 182.588   | ug/L 99 |
| 54) m,p-Xylene               | 11.84 | 106 | 2904069    | 458.502   | ug/L 97 |
| 55) o-xylene                 | 12.17 | 106 | 673723     | 112.927   | ug/L 96 |
| 57) Isopropylbenzene         | 12.47 | 105 | 32626      | 2.028     | ug/L 99 |

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Sample : L3599-19  
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ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAYA1

Manual Integrations  
APPROVED

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8/14/2020 5:11:37 PM

Quant Time: Aug 14 15:02:59 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM081020S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Aug 14 06:19:29 2020  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

|       |  |  |  |  |  |  |
|-------|--|--|--|--|--|--|
| ----- |  |  |  |  |  |  |
| ----- |  |  |  |  |  |  |

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

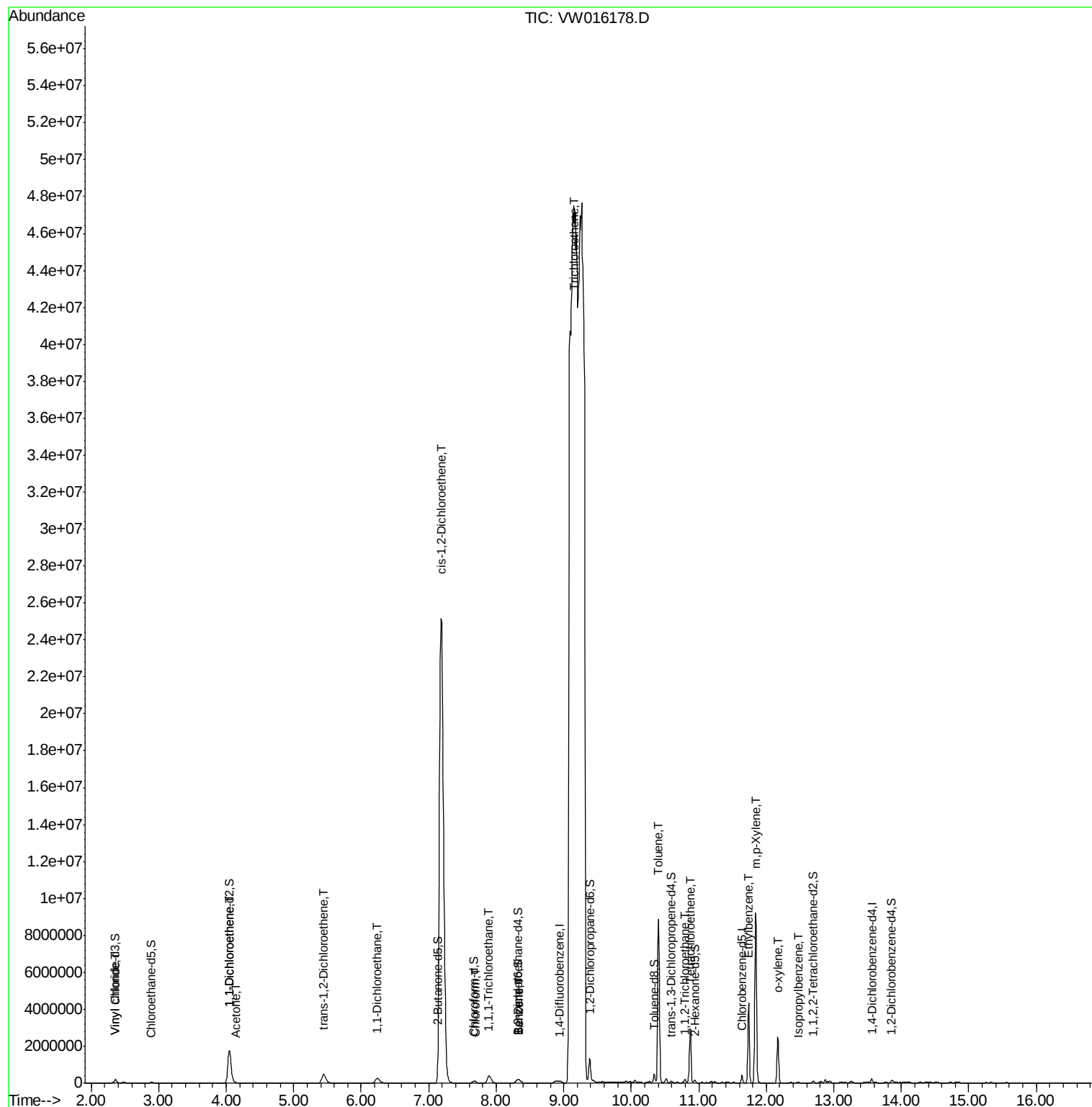
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW081320\  
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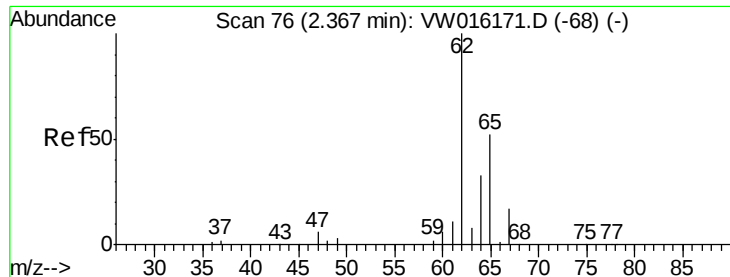
Instrument :  
MSVOA\_W  
ClientSampleId :  
GAYA1

Manual Integrations  
APPROVED

MMDadoda  
8/14/2020 5:11:37 PM

Quant Time: Aug 14 15:02:59 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM081020S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Aug 14 06:19:29 2020  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 36.824 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW016178.D

Acq: 13 Aug 2020 13:51

Instrument :

MSVOA\_W

ClientSampled :

GAYA1

Tot Ion: 62 Resp: 164731

Ion Ratio Lower Upper

62 100

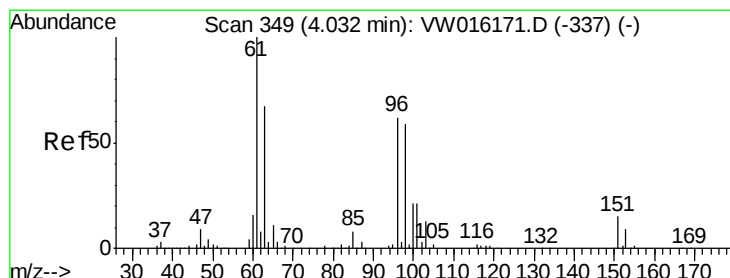
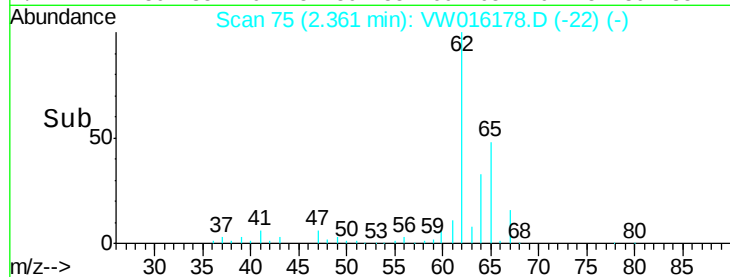
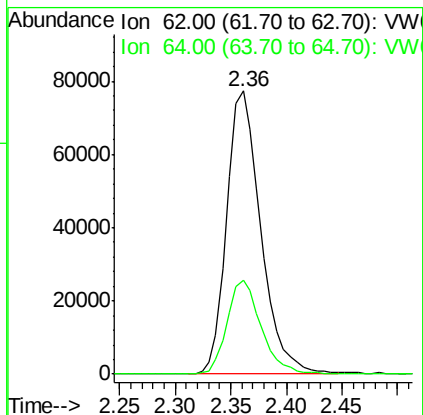
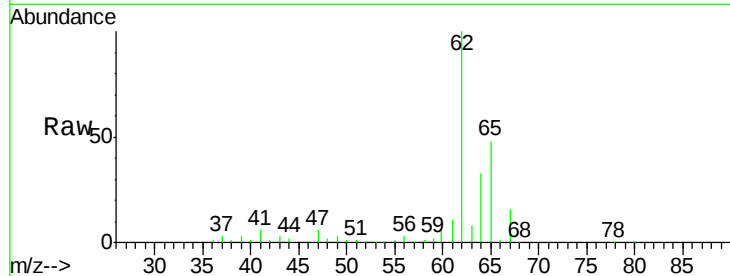
64 33.3 23.0 42.8

Manual Integrations

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#12

1,1-Dichloroethene

Concen: 296.132 ug/L m

RT: 4.05 min Scan# 352

Delta R.T. 0.02 min

Lab File: VW016178.D

Acq: 13 Aug 2020 13:51

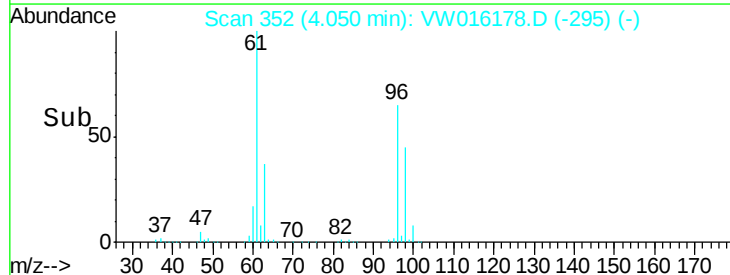
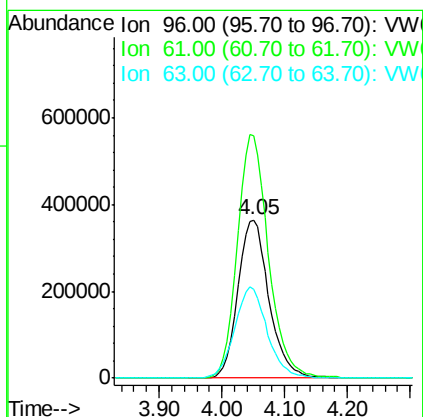
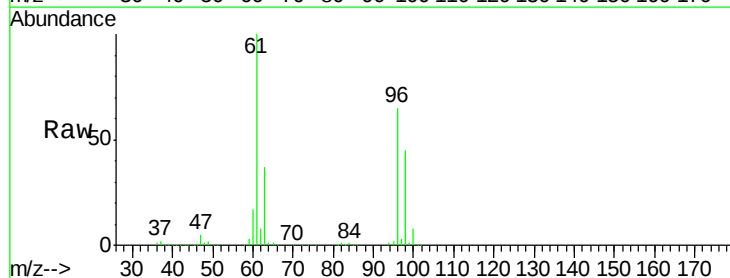
Tgt Ion: 96 Resp: 1276983

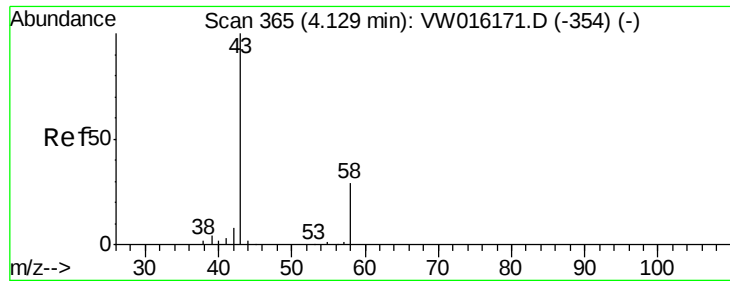
Ion Ratio Lower Upper

96 100

61 153.9 120.2 223.2

63 56.6 86.4 160.4#





#13

Acetone

Concen: 18.726 ug/L m

RT: 4.15 min Scan# 368

Delta R.T. 0.02 min

Lab File: VW016178.D

Acq: 13 Aug 2020 13:51

Instrument :

MSVOA\_W

ClientSampled :

GAYA1

Tot Ion: 43 Resp: 15527

Ion Ratio Lower Upper

43 100

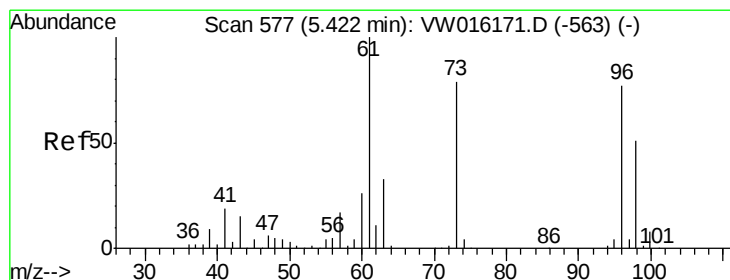
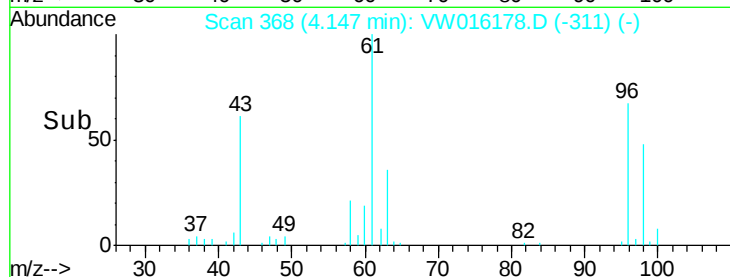
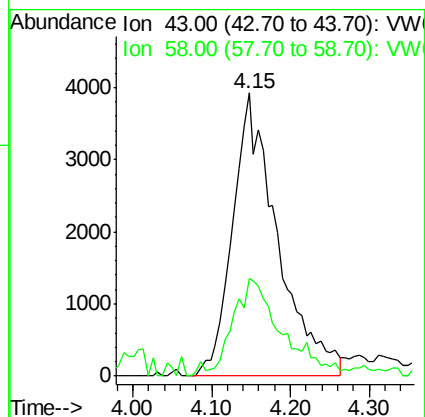
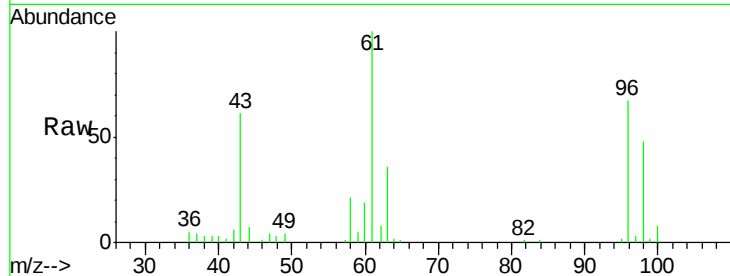
58 18.6 0.0 59.4

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#18

trans-1,2-Dichloroethene

Concen: 100.156 ug/L

RT: 5.45 min Scan# 581

Delta R.T. 0.02 min

Lab File: VW016178.D

Acq: 13 Aug 2020 13:51

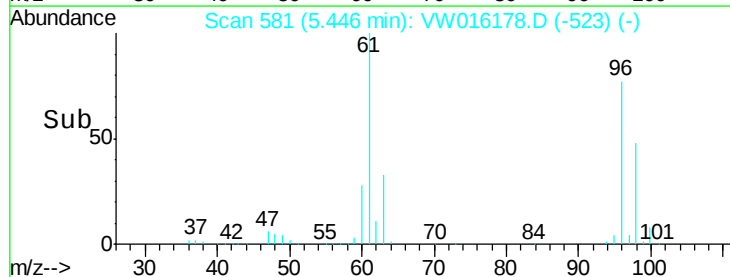
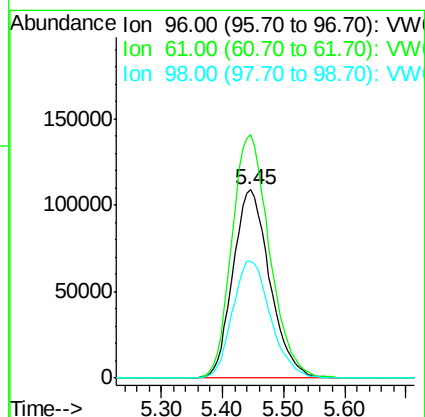
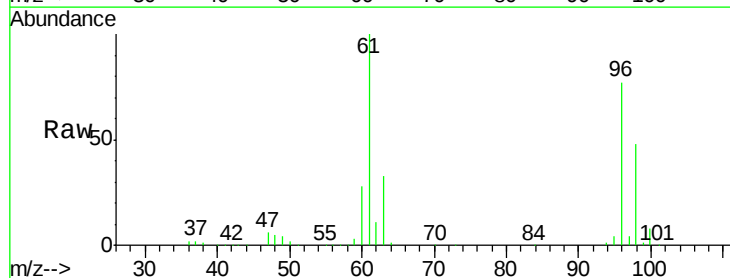
Tgt Ion: 96 Resp: 454306

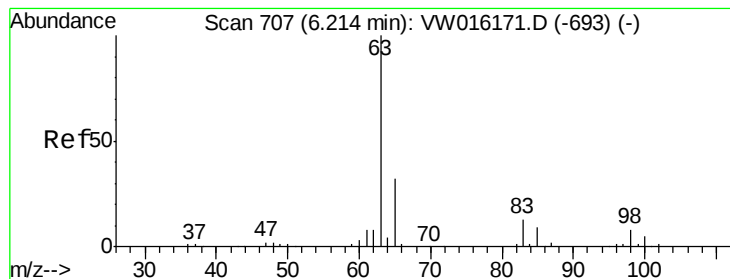
Ion Ratio Lower Upper

96 100

61 129.3 101.6 188.8

98 62.1 47.7 88.7





#19

1,1-Dichloroethane

Concen: 72.024 ug/L

RT: 6.24 min Scan# 711

Delta R.T. 0.02 min

Lab File: VW016178.D

Acq: 13 Aug 2020 13:51

Instrument :

MSVOA\_W

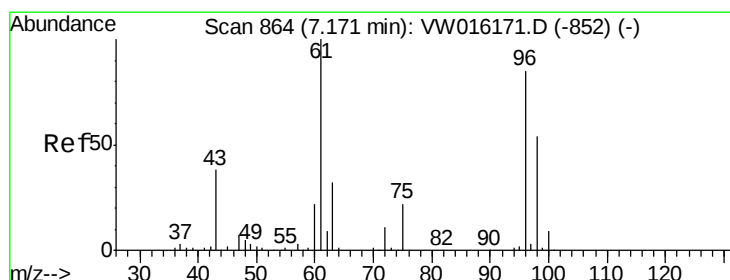
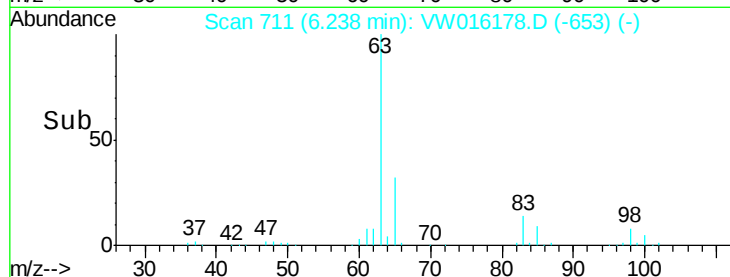
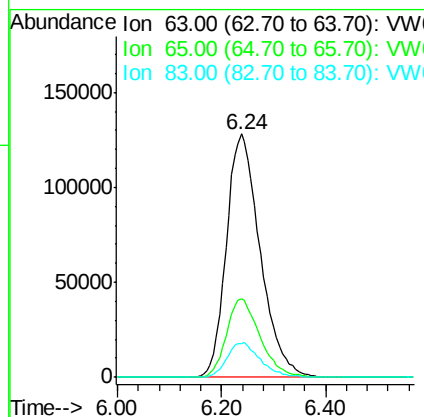
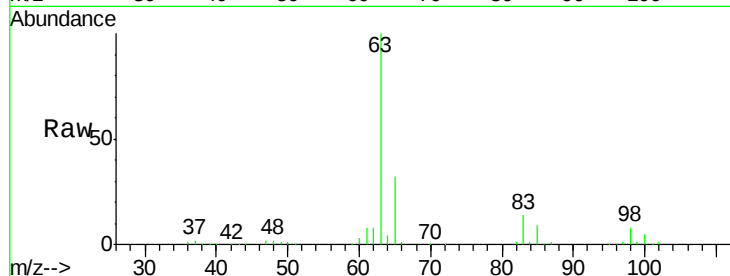
ClientSampleId :

GAYA1

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 63    | Resp: | 578036 |
| Ion Ratio | Lower | Upper |        |
| 63        | 100   |       |        |
| 65        | 32.3  | 21.6  | 40.0   |
| 83        | 13.8  | 9.8   | 18.2   |

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#22

cis-1,2-Dichloroethene

Concen: 5352.222 ug/L

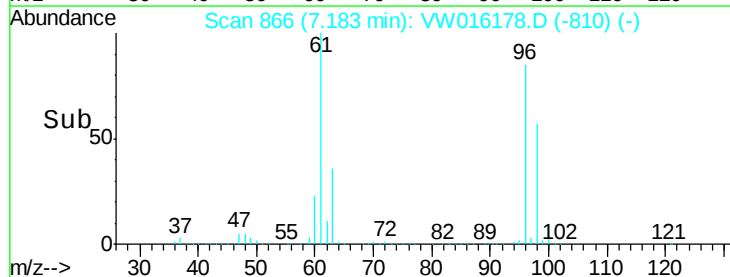
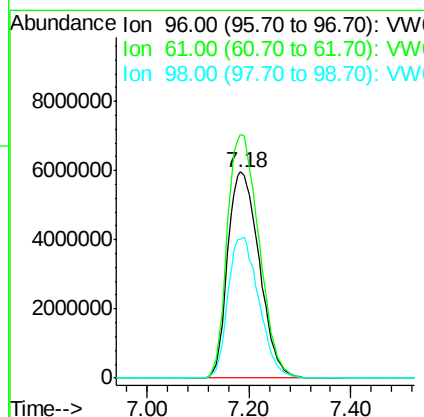
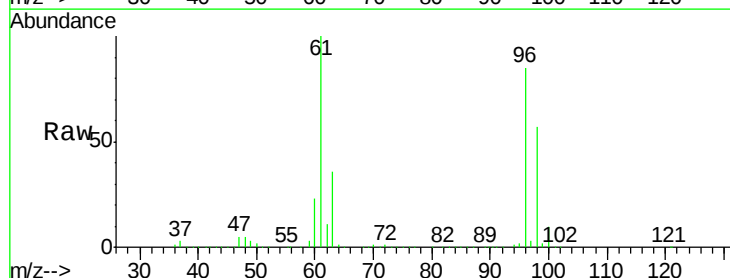
RT: 7.18 min Scan# 866

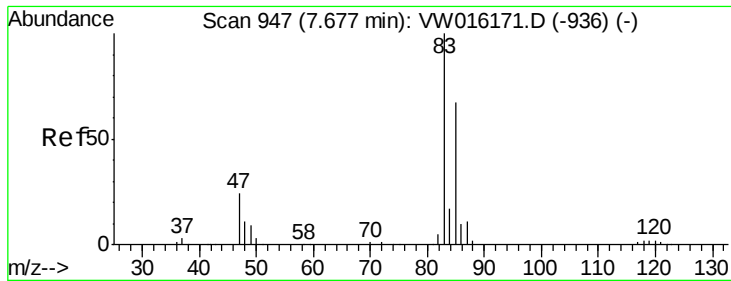
Delta R.T. 0.01 min

Lab File: VW016178.D

Acq: 13 Aug 2020 13:51

|           |       |       |          |
|-----------|-------|-------|----------|
| Tgt Ion:  | 96    | Resp: | 25611221 |
| Ion Ratio | Lower | Upper |          |
| 96        | 100   |       |          |
| 61        | 118.1 | 87.0  | 161.6    |
| 98        | 67.4  | 44.0  | 81.6     |





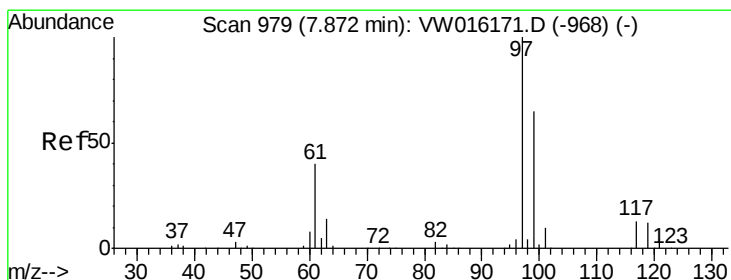
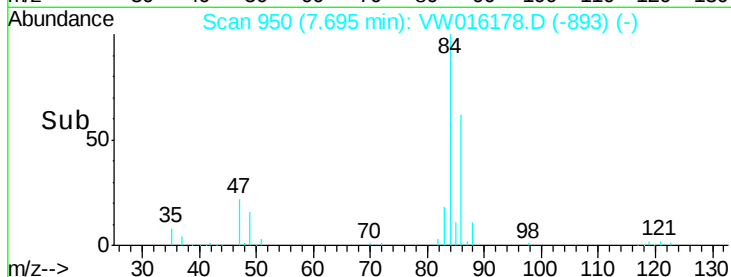
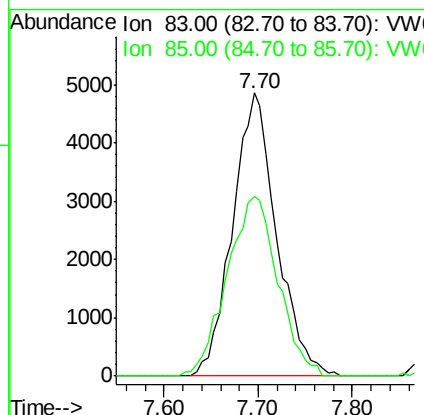
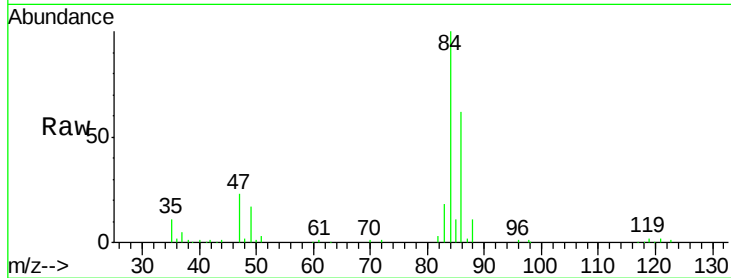
#25  
Chloroform  
Concen: 1.847 ug/L  
RT: 7.70 min Scan# 950  
Delta R.T. 0.02 min  
Lab File: VW016178.D  
Acq: 13 Aug 2020 13:51

Instrument :  
MSVOA\_W  
ClientSampled :  
GAYA1

| Tot Ion   | 83   | Resp  | 15774 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 85        | 73.3 | 46.0  | 85.4  |

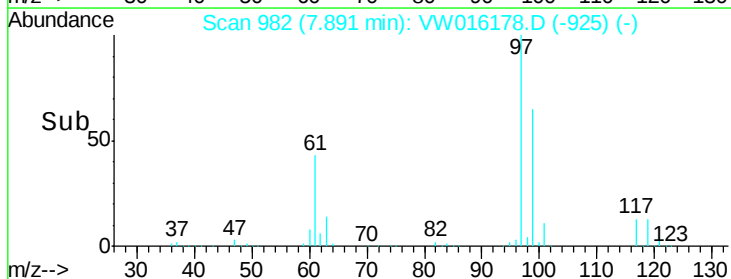
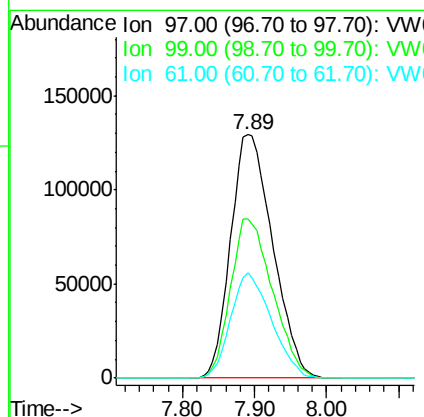
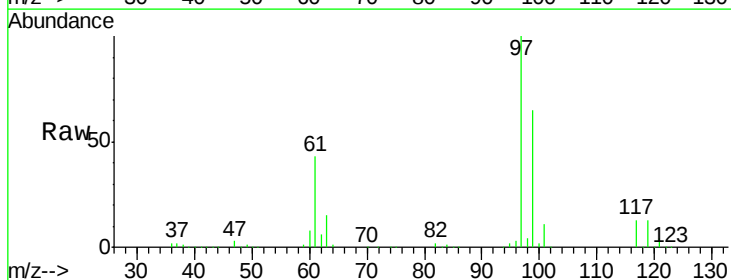
Manual Integrations  
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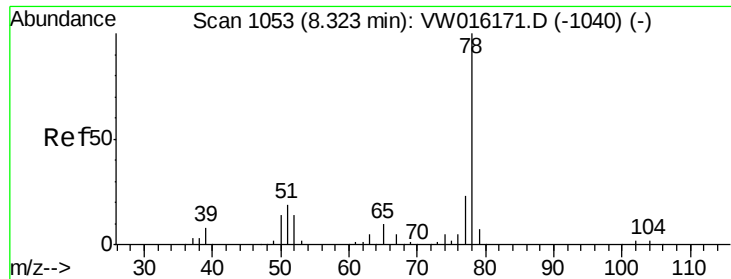
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#31  
1,1,1-Trichloroethane  
Concen: 93.800 ug/L  
RT: 7.89 min Scan# 982  
Delta R.T. 0.02 min  
Lab File: VW016178.D  
Acq: 13 Aug 2020 13:51

| Tgt Ion   | 97   | Resp  | 525461 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 99        | 65.2 | 51.6  | 77.4   |
| 61        | 41.7 | 34.5  | 51.7   |





#34

Benzene

Concen: 1.191 ug/L m

RT: 8.35 min Scan# 1057

Delta R.T. 0.02 min

Lab File: VW016178.D

Acq: 13 Aug 2020 13:51

Instrument :

MSVOA\_W

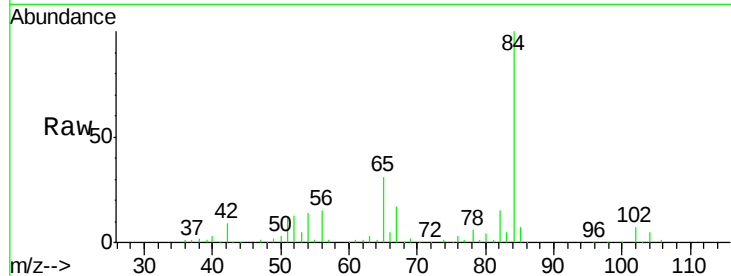
ClientSampleId :

GAYA1

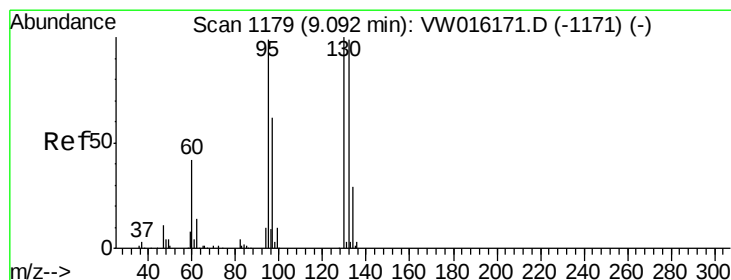
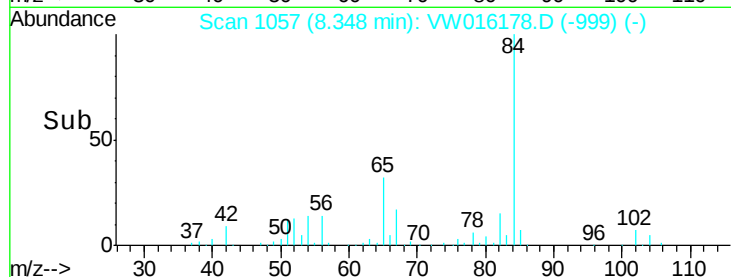
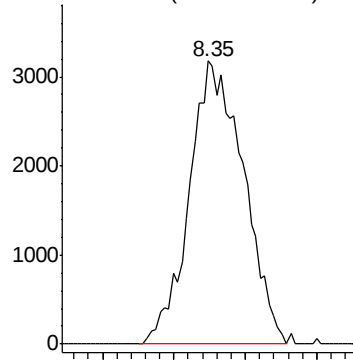
Tgt Ion: 78 Resp: 16741

Manual Integrations  
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Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 27845.575 ug/L m

RT: 9.15 min Scan# 1189

Delta R.T. 0.06 min

Lab File: VW016178.D

Acq: 13 Aug 2020 13:51

Tgt Ion: 95 Resp:105262087

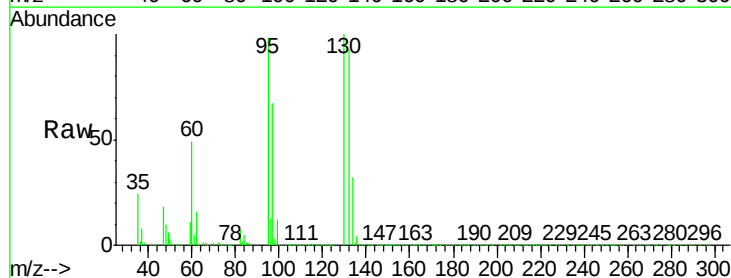
Ion Ratio Lower Upper

95 100

97 9.0 44.9 83.3#

132 12.4 65.8 122.2#

130 13.0 69.5 129.1#

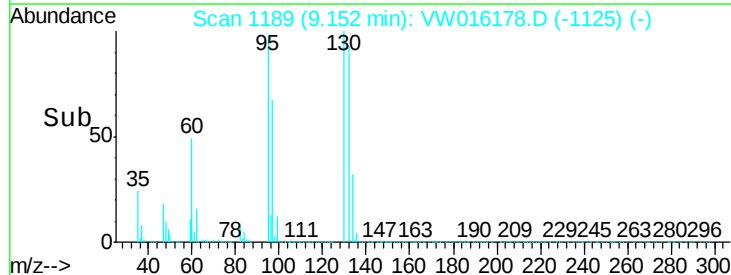
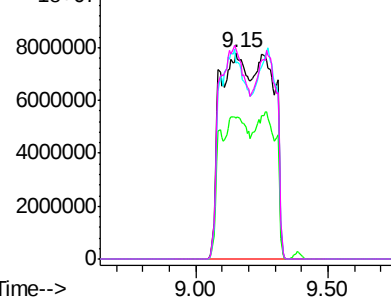


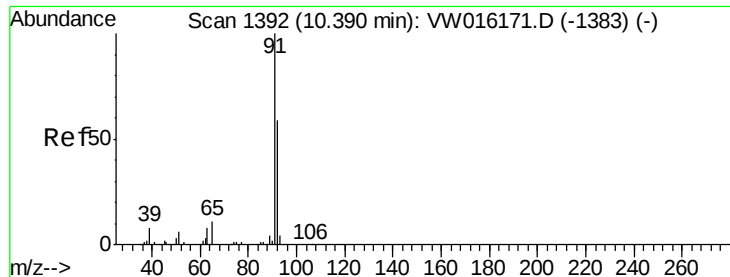
Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V





#44

Toluene

Concen: 448.530 ug/L

RT: 10.40 min Scan# 1394

Delta R.T. 0.01 min

Lab File: VW016178.D

Acq: 13 Aug 2020 13:51

Instrument :

MSVOA\_W

ClientSampleId :

GAYA1

Tot Ion: 91 Resp: 6656393

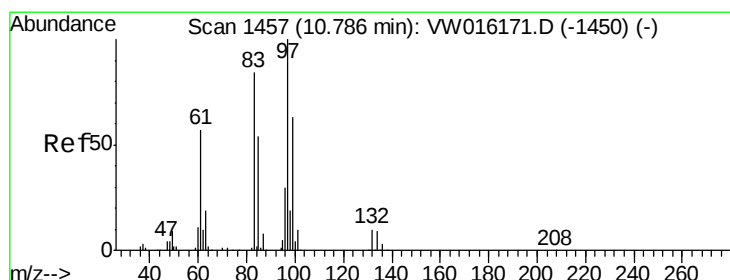
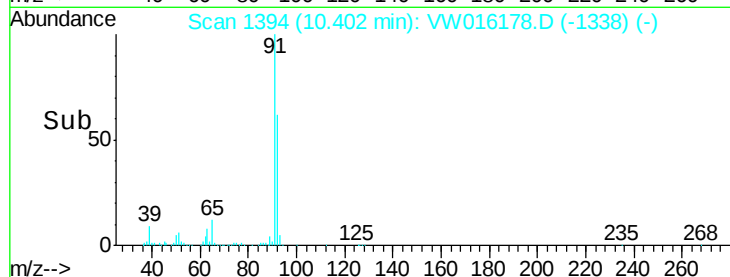
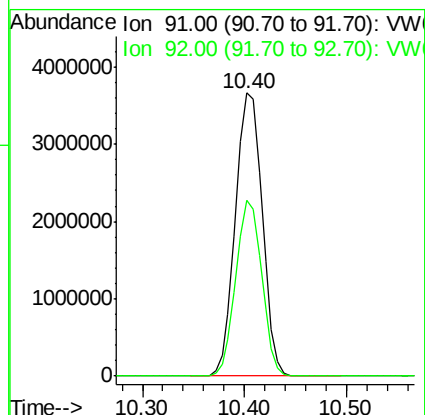
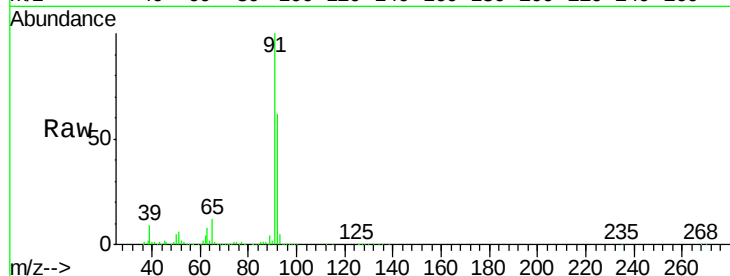
Ion Ratio Lower Upper

91 100

92 61.9 41.8 77.6

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#46

1,1,2-Trichloroethane

Concen: 25.393 ug/L

RT: 10.80 min Scan# 1459

Delta R.T. 0.01 min

Lab File: VW016178.D

Acq: 13 Aug 2020 13:51

Tgt Ion: 97 Resp: 69009

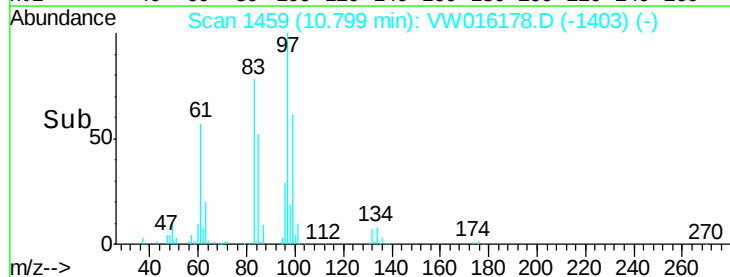
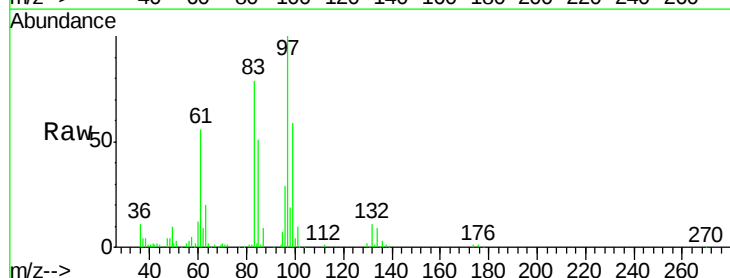
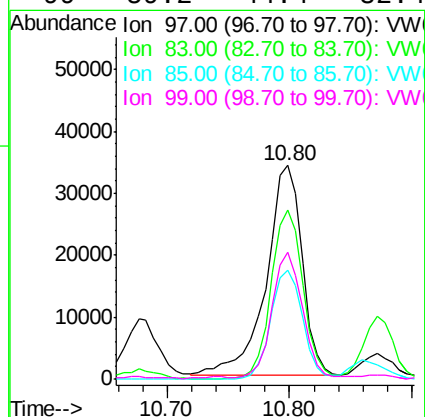
Ion Ratio Lower Upper

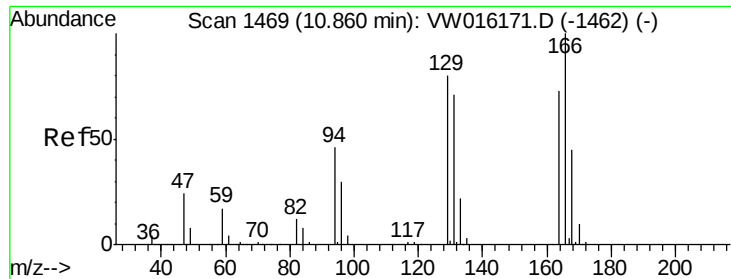
97 100

83 79.1 57.8 107.4

85 50.7 38.0 70.6

99 59.2 44.4 82.4





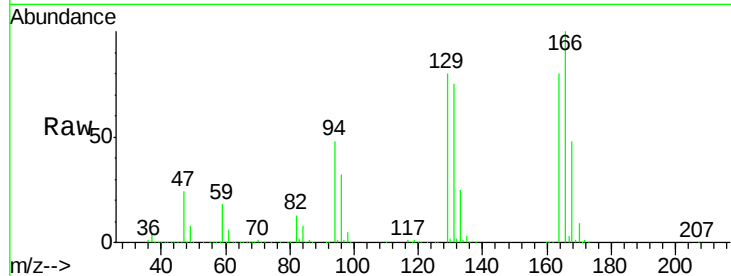
#47  
Tetrachloroethene  
Concen: 242.317 ug/L  
RT: 10.87 min Scan# 1471  
Delta R.T. 0.01 min  
Lab File: VW016178.D  
Acq: 13 Aug 2020 13:51

Instrument :  
MSVOA\_W  
ClientSampled :  
GAYA1

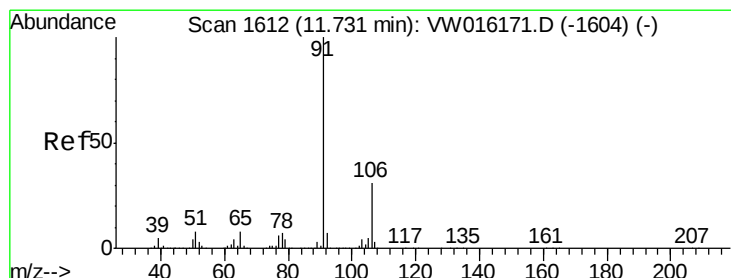
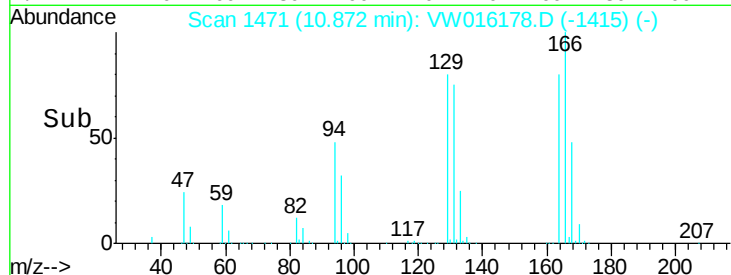
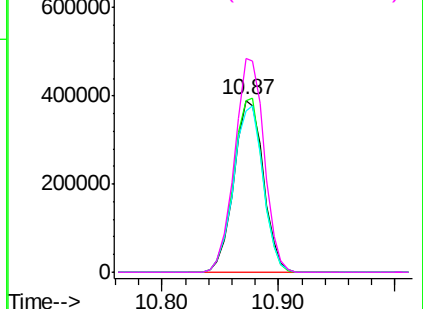
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 686708 |       |       |
| 129     | 99.6  | 71.5   | 132.9 |       |
| 131     | 93.9  | 65.4   | 121.4 |       |
| 166     | 124.5 | 86.9   | 161.5 |       |

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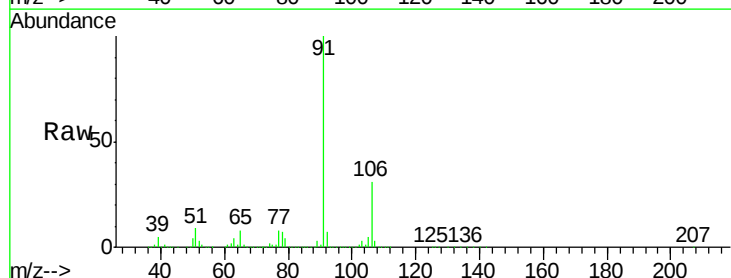


Abundance Ion 164.00 (163.70 to 164.70): V  
Ion 129.00 (128.70 to 129.70): V  
Ion 131.00 (130.70 to 131.70): V  
Ion 166.00 (165.70 to 166.70): V

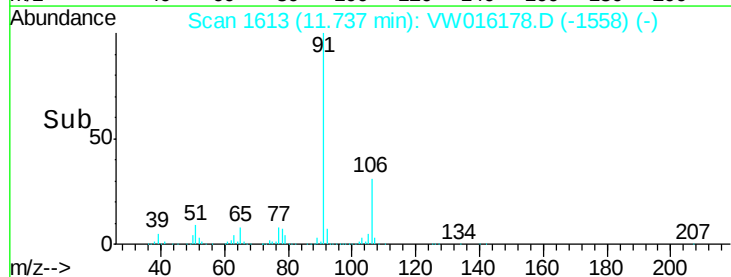
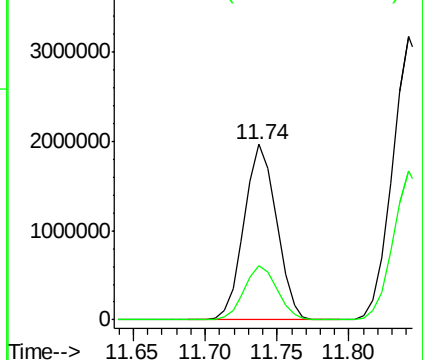


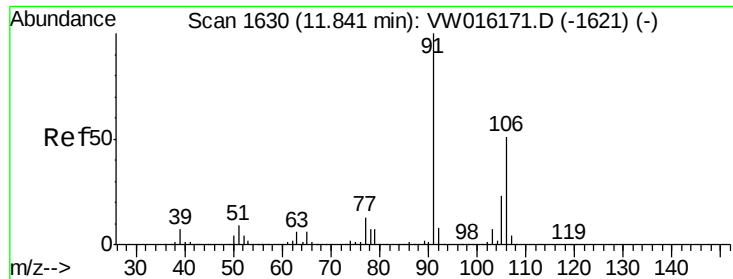
#53  
Ethylbenzene  
Concen: 182.588 ug/L  
RT: 11.74 min Scan# 1613  
Delta R.T. 0.01 min  
Lab File: VW016178.D  
Acq: 13 Aug 2020 13:51

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 91      | 100   | 3074363 |       |       |
| 106     | 30.6  | 21.8    | 40.4  |       |



Abundance Ion 91.00 (90.70 to 91.70): VW  
Ion 106.00 (105.70 to 106.70): V





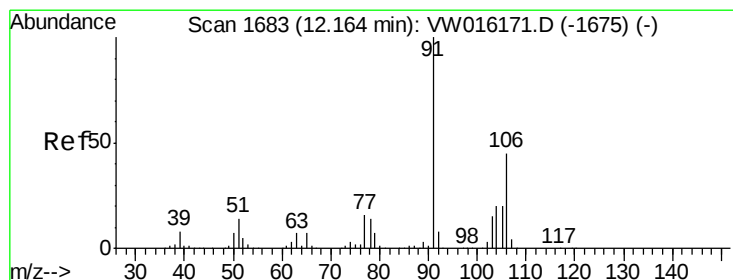
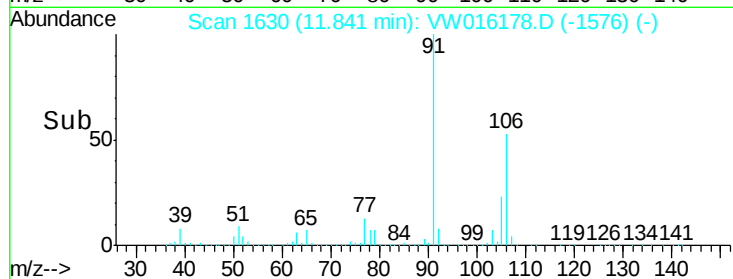
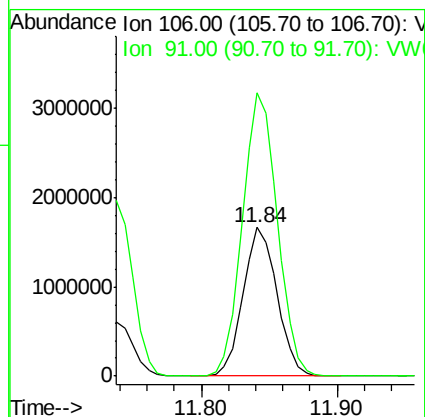
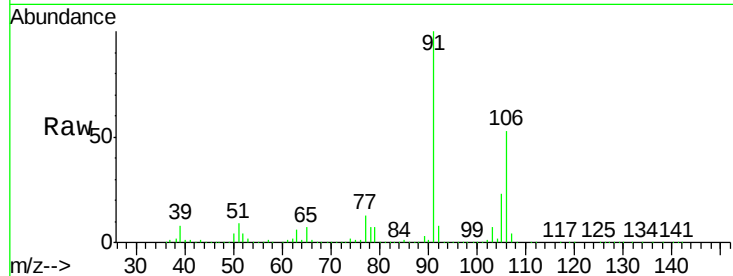
#54  
m,p-Xylene  
Concen: 458.502 ug/L  
RT: 11.84 min Scan# 1630  
Delta R.T. -0.00 min  
Lab File: VW016178.D  
Acq: 13 Aug 2020 13:51

Instrument :  
MSVOA\_W  
ClientSampled :  
GAYA1

Tot Ion:106 Resp: 2904069  
Ion Ratio Lower Upper  
106 100  
91 190.4 136.4 253.2

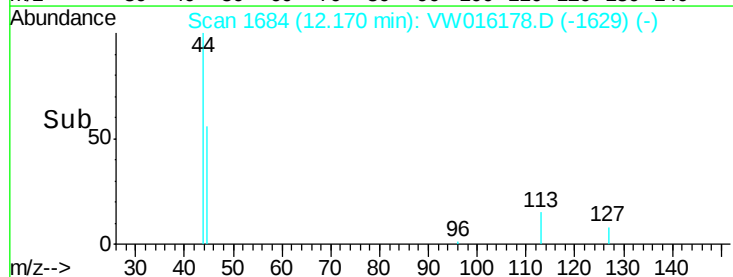
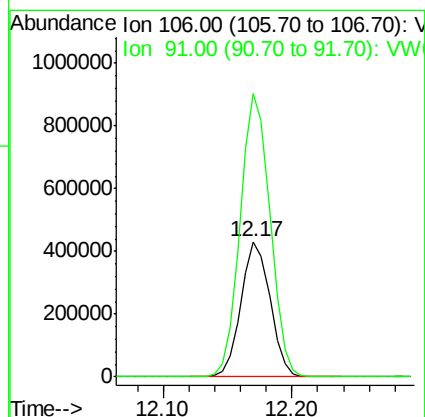
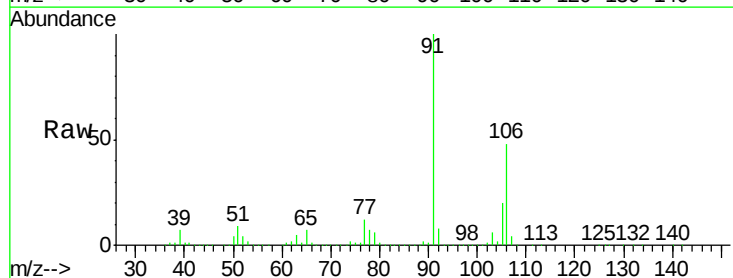
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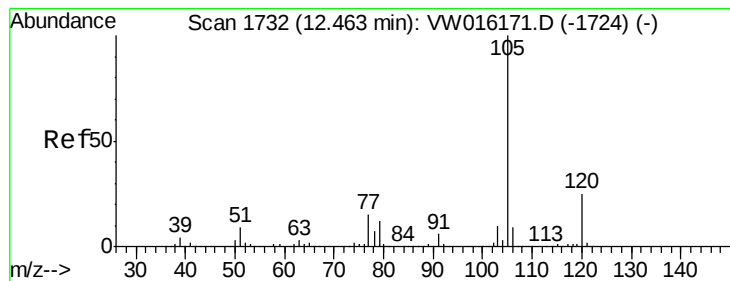
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#55  
o-xylene  
Concen: 112.927 ug/L  
RT: 12.17 min Scan# 1684  
Delta R.T. 0.01 min  
Lab File: VW016178.D  
Acq: 13 Aug 2020 13:51

Tgt Ion:106 Resp: 673723  
Ion Ratio Lower Upper  
106 100  
91 209.6 151.3 281.1





#57

Isopropylbenzene

Concen: 2.028 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW016178.D

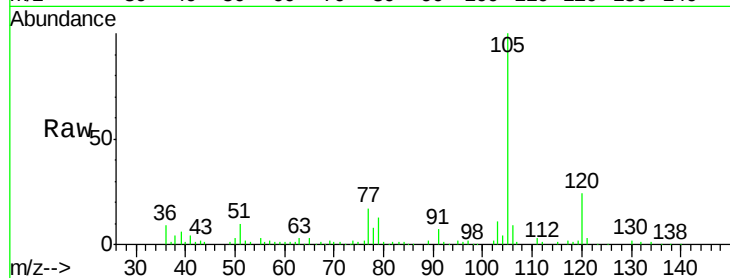
Acq: 13 Aug 2020 13:51

Instrument :

MSVOA\_W

ClientSampleId :

GAYA1



|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 105   | Resp: | 32626 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 26.3  | 21.0  | 31.4  |
| 77        | 17.1  | 12.6  | 18.8  |

Manual Integrations  
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