

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW050321\  
 Data File : VW018903.D  
 Acq On : 03 May 2021 16:57  
 Operator : SY/VA  
 Sample : M2209-16  
 Misc : 5.96G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BG7F1

Manual Integrations  
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Quant Time: May 04 01:17:50 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM042921SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Tue May 04 01:15:32 2021  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|--------|----------|
| -----                         |                |      |            |          |        |          |
| Internal Standards            |                |      |            |          |        |          |
| 1) 1,4-Difluorobenzene        | 8.854          | 114  | 520521     | 25.00    | ug/L   | 0.01     |
| 28) Chlorobenzene-d5          | 11.658         | 117  | 305237     | 25.00    | ug/L   | 0.02     |
| 58) 1,4-Dichlorobenzene-d4    | 13.560         | 152  | 124466     | 25.00    | ug/L   | 0.00     |
|                               |                |      |            |          |        |          |
| System Monitoring Compounds   |                |      |            |          |        |          |
| 4) Vinyl Chloride-d3          | 2.355          | 65   | 161248     | 24.15    | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 30 - 150 |      | Recovery = | 96.60%   |        |          |
| 7) Chloroethane-d5            | 2.891          | 69   | 127057     | 24.56    | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 30 - 150 |      | Recovery = | 98.24%   |        |          |
| 11) 1,1-Dichloroethene-d2     | 4.031          | 63   | 232582     | 17.54    | ug/L   | 0.01     |
| Spiked Amount 25.000          | Range 45 - 110 |      | Recovery = | 70.16%   |        |          |
| 21) 2-Butanone-d5             | 7.086          | 46   | 58586      | 33.69    | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 20 - 135 |      | Recovery = | 67.38%   |        |          |
| 24) Chloroform-d              | 7.665          | 84   | 317671     | 23.25    | ug/L   | 0.02     |
| Spiked Amount 25.000          | Range 40 - 150 |      | Recovery = | 93.00%   |        |          |
| 26) 1,2-Dichloroethane-d4     | 8.311          | 65   | 190187     | 24.92    | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 70 - 130 |      | Recovery = | 99.68%   |        |          |
| 32) Benzene-d6                | 8.287          | 84   | 635287     | 36.84    | ug/L   | 0.01     |
| Spiked Amount 25.000          | Range 20 - 135 |      | Recovery = | 147.36%# |        |          |
| 36) 1,2-Dichloropropane-d6    | 9.281          | 67   | 182359     | 35.64    | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 70 - 120 |      | Recovery = | 142.56%# |        |          |
| 41) Toluene-d8                | 10.335         | 98   | 553488     | 34.41    | ug/L   | 0.01     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 137.64%# |        |          |
| 43) trans-1,3-Dichloroprop... | 10.585         | 79   | 77544      | 33.35    | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 30 - 135 |      | Recovery = | 133.40%  |        |          |
| 47) 2-Hexanone-d5             | 10.920         | 63   | 302        | 0.33     | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 20 - 135 |      | Recovery = | 0.66%#   |        |          |
| 56) 1,1,2,2-Tetrachloroeth... | 12.695         | 84   | 112851     | 26.03    | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 45 - 120 |      | Recovery = | 104.12%  |        |          |
| 66) 1,2-Dichlorobenzene-d4    | 13.859         | 152  | 107961     | 25.31    | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 75 - 120 |      | Recovery = | 101.24%  |        |          |
|                               |                |      |            |          |        |          |
| Target Compounds              |                |      |            |          | Qvalue |          |
| 13) Acetone                   | 4.135          | 43   | 11976m     | 8.99     | ug/L   |          |
| 14) Carbon disulfide          | 4.403          | 76   | 34474      | 1.73     | ug/L # | 94       |
| 16) Methylene chloride        | 4.940          | 84   | 24824      | 2.88     | ug/L   | 88       |
| 33) Benzene                   | 8.336          | 78   | 76442      | 4.18     | ug/L   | 100      |
| 34) Trichloroethene           | 9.098          | 95   | 1026248    | 210.48   | ug/L   | 92       |
| 42) Toluene                   | 10.402         | 91   | 48643      | 2.42     | ug/L   | 97       |
| 46) Tetrachloroethene         | 10.853         | 164  | 28770235m  | 7847.00  | ug/L   |          |
| 51) Chlorobenzene             | 11.683         | 112  | 4392       | 0.36     | ug/L # | 87       |
| 52) Ethylbenzene              | 11.750         | 91   | 36829      | 1.65     | ug/L   | 94       |
| 53) m,p-Xylene                | 11.853         | 106  | 45422      | 5.48     | ug/L   | 95       |
| 54) o-Xylene                  | 12.176         | 106  | 27164      | 3.44     | ug/L   | 95       |
| 60) Isopropylbenzene          | 12.469         | 105  | 21914m     | 1.23     | ug/L   |          |
| 62) 1,3,5-Trimethylbenzene    | 12.951         | 105  | 163267     | 11.01    | ug/L   | 95       |
| 63) 1,2,4-Trimethylbenzene    | 13.255         | 105  | 510756     | 34.43    | ug/L   | 100      |
| 64) 1,3-Dichlorobenzene       | 13.499         | 146  | 2510       | 0.33     | ug/L # | 48       |
| 65) 1,4-Dichlorobenzene       | 13.585         | 146  | 84789      | 11.21    | ug/L   | 97       |
| 67) 1,2-Dichlorobenzene       | 13.871         | 146  | 96118      | 14.17    | ug/L   | 93       |
| -----                         |                |      |            |          |        |          |

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Data File : VW018903.D  
Acq On : 03 May 2021 16:57  
Operator : SY/VA  
Sample : M2209-16  
Misc : 5.96G/10ML/MSVOA\_W/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG7F1

Manual Integrations  
APPROVED

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Quant Time: May 04 01:17:50 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM042921SMA.M  
Quant Title : SFAM01.0  
QLast Update : Tue May 04 01:15:32 2021  
Response via : Initial Calibration

| Compound                                                             | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                |      |      |          |      |       |          |
| (#)=qualifier out of range (m)=manual integration (+)=signals summed |      |      |          |      |       |          |

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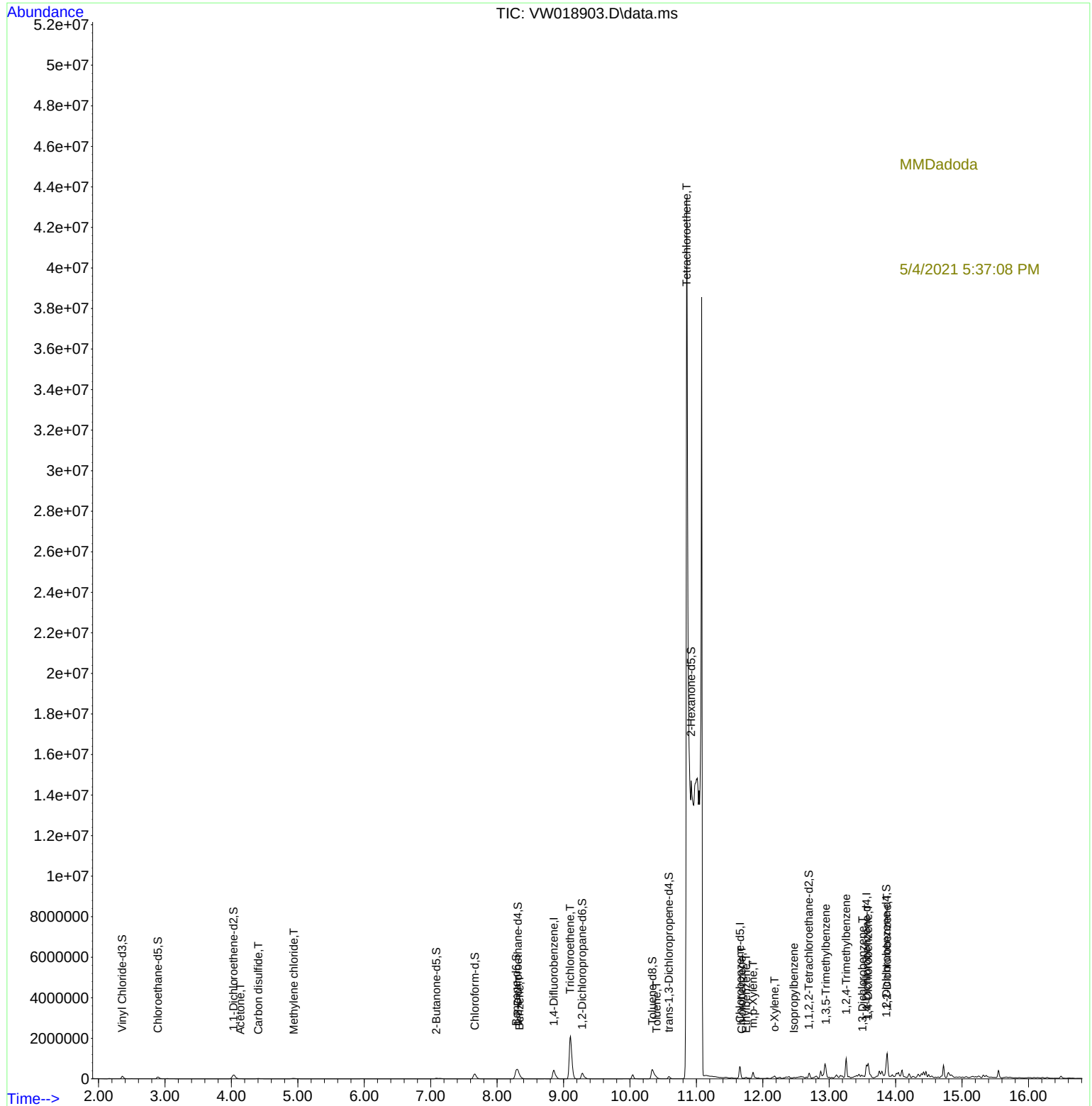
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Data File : VW018903.D  
Acq On : 03 May 2021 16:57  
Operator : SY/VA  
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MSVOA\_W  
ClientSampleId :  
BG7F1

Manual Integrations  
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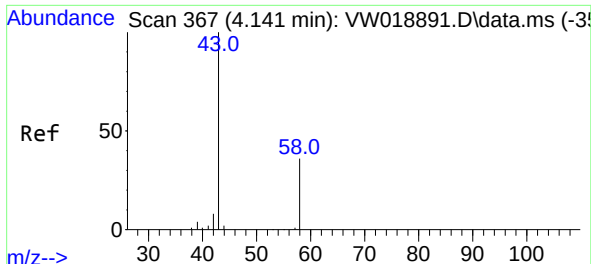
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Quant Time: May 04 01:17:50 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM042921SMA.M  
Quant Title : SFAM01.0  
QLast Update : Tue May 04 01:15:32 2021  
Response via : Initial Calibration

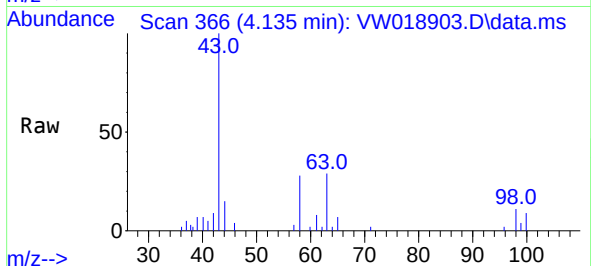


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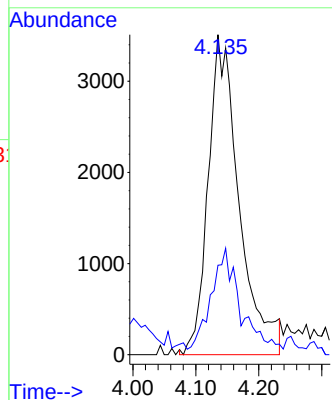
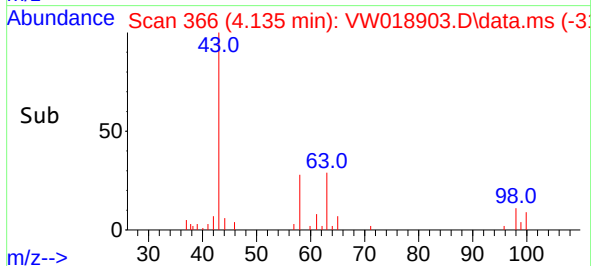
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#13  
Acetone  
Concen: 8.99 ug/L m  
RT: 4.135 min Scan# 366  
Delta R.T. -0.006 min  
Lab File: VW018903.D  
Acq: 03 May 2021 16:57



Tgt Ion: 43 Resp: 11976  
Ion Ratio Lower Upper  
43 100  
58 23.8 0.0 53.8



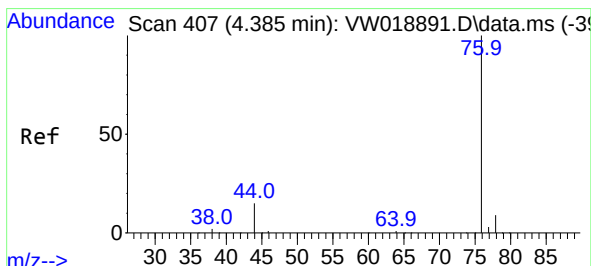
Instrument :  
MSVOA\_W  
ClientSampled :  
BG7F1

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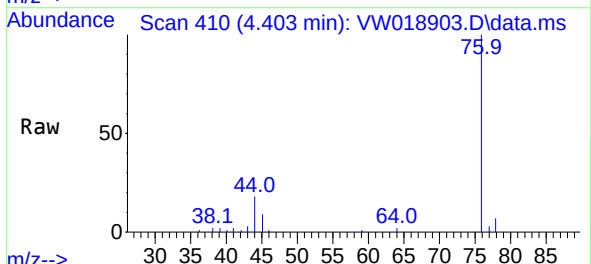
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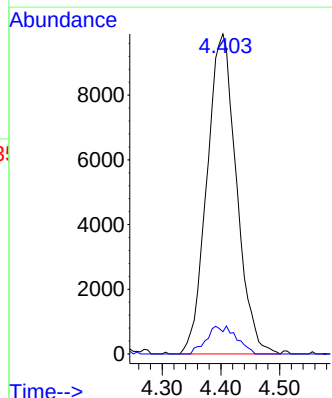
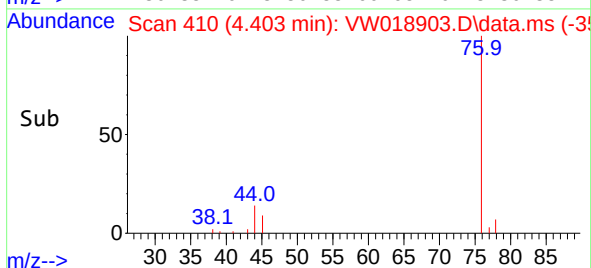
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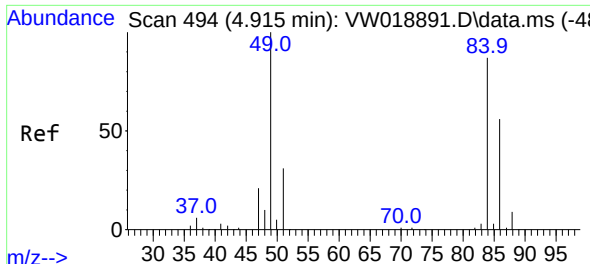


#14  
Carbon disulfide  
Concen: 1.73 ug/L  
RT: 4.403 min Scan# 410  
Delta R.T. 0.019 min  
Lab File: VW018903.D  
Acq: 03 May 2021 16:57

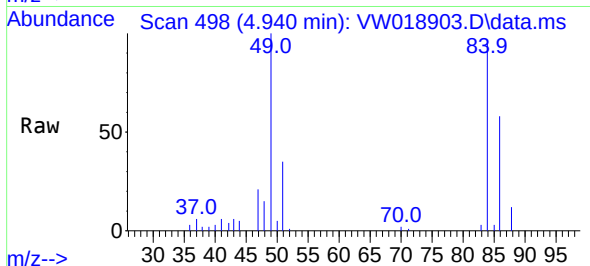


Tgt Ion: 76 Resp: 34474  
Ion Ratio Lower Upper  
76 100  
78 6.9 7.4 11.0#



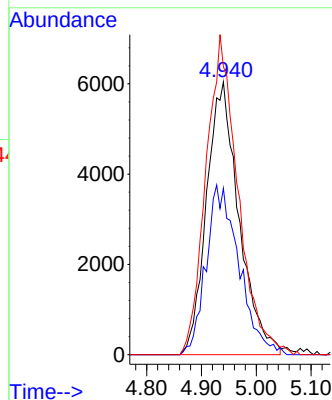
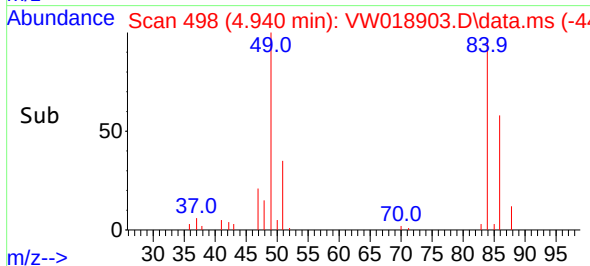


#16  
Methylene chloride  
Concen: 2.88 ug/L  
RT: 4.940 min Scan# 498  
Delta R.T. 0.025 min  
Lab File: VW018903.D  
Acq: 03 May 2021 16:57



Tgt Ion: 84 Resp: 24824

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 86  | 61.0  | 45.3  | 84.1  |
| 49  | 105.6 | 86.6  | 160.8 |



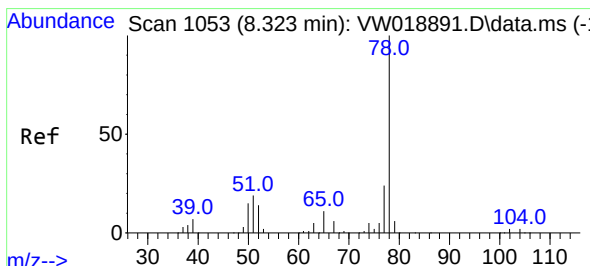
Instrument :  
MSVOA\_W  
ClientSampleId :  
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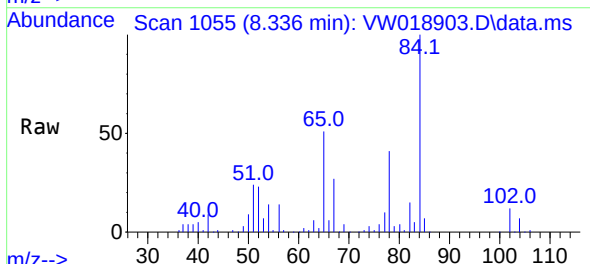
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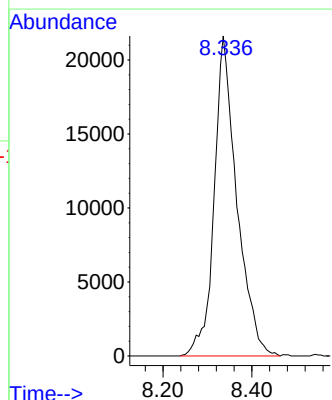
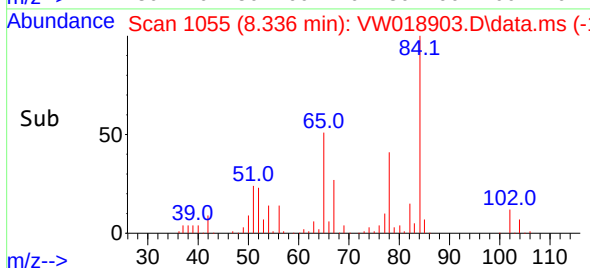
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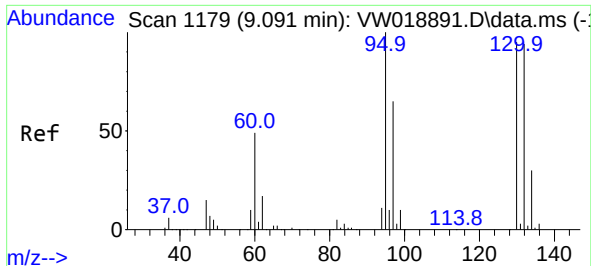


#33  
Benzene  
Concen: 4.18 ug/L  
RT: 8.336 min Scan# 1055  
Delta R.T. 0.012 min  
Lab File: VW018903.D  
Acq: 03 May 2021 16:57



Tgt Ion: 78 Resp: 76442





#34  
Trichloroethene  
Concen: 210.48 ug/L  
RT: 9.098 min Scan# 1180  
Delta R.T. 0.006 min  
Lab File: VW018903.D  
Acq: 03 May 2021 16:57

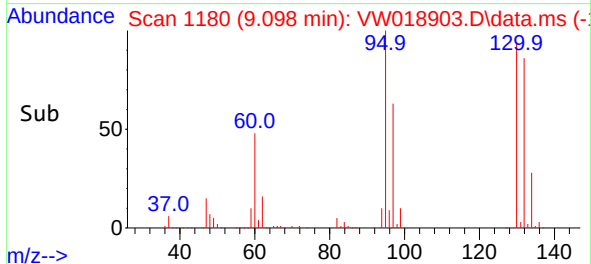
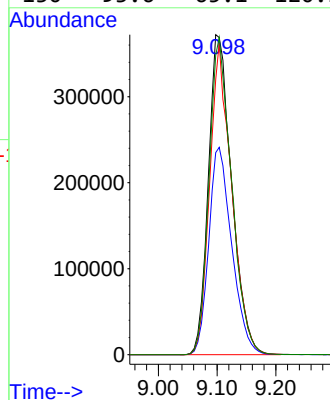
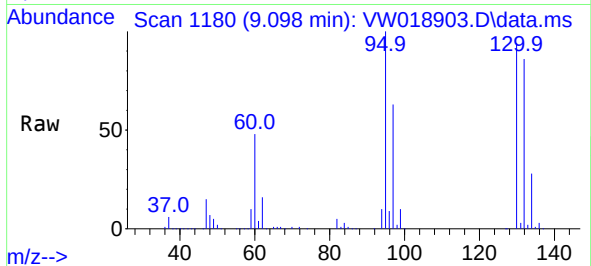
Tgt Ion: 95 Resp: 1026248

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 63.1  | 47.3  | 87.8  |
| 132 | 86.0  | 71.0  | 131.8 |
| 130 | 93.6  | 65.1  | 120.9 |

Instrument :  
MSVOA\_W  
ClientSampled :  
BG7F1

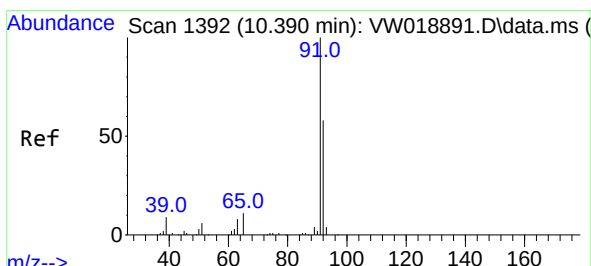
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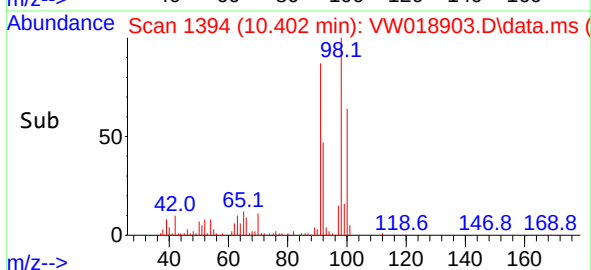
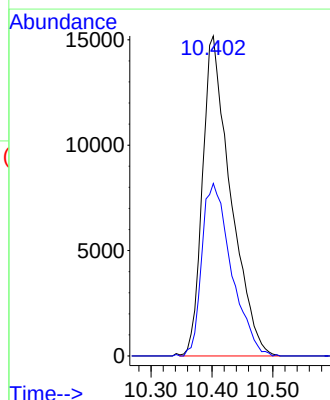
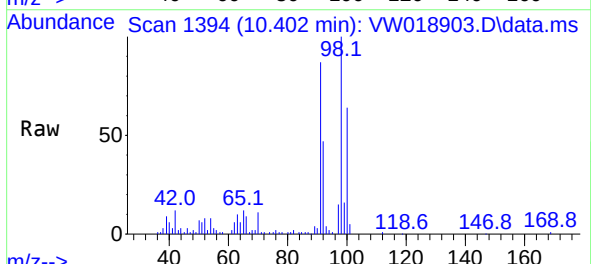
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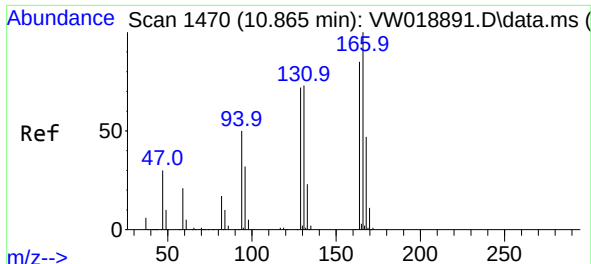


#42  
Toluene  
Concen: 2.42 ug/L  
RT: 10.402 min Scan# 1394  
Delta R.T. 0.012 min  
Lab File: VW018903.D  
Acq: 03 May 2021 16:57

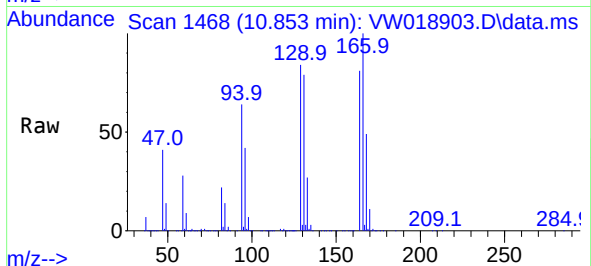
Tgt Ion: 91 Resp: 48643

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 92  | 53.9  | 39.5  | 73.3  |

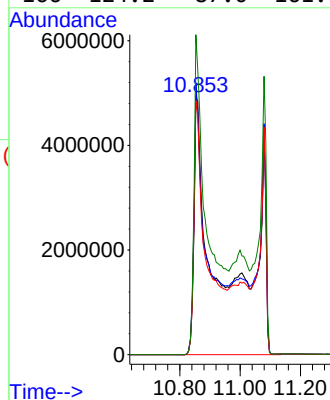
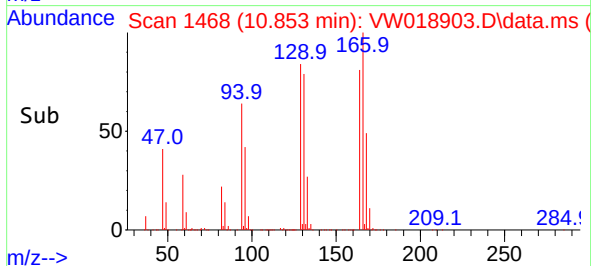




#46  
Tetrachloroethene  
Concen: 7847.00 ug/L m  
RT: 10.853 min Scan# 1468  
Delta R.T. -0.012 min  
Lab File: VW018903.D  
Acq: 03 May 2021 16:57



Tgt Ion:164 Resp:28770235  
Ion Ratio Lower Upper  
164 100  
129 104.8 66.7 123.9  
131 98.5 61.1 113.5  
166 124.2 87.0 161.6



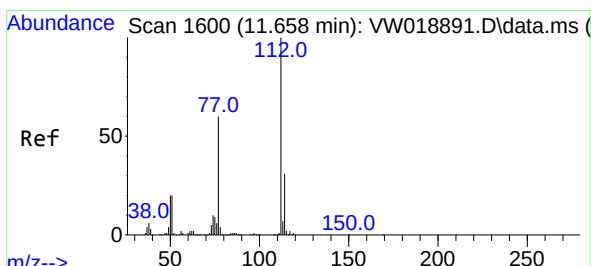
Instrument :  
MSVOA\_W  
ClientSampleId :  
BG7F1

Manual Integrations  
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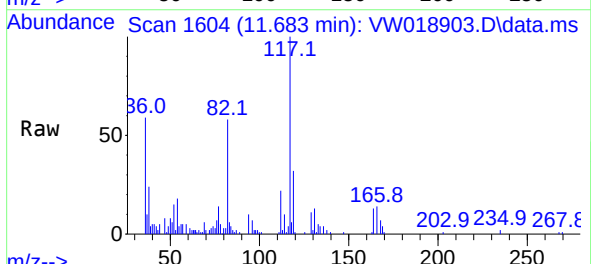
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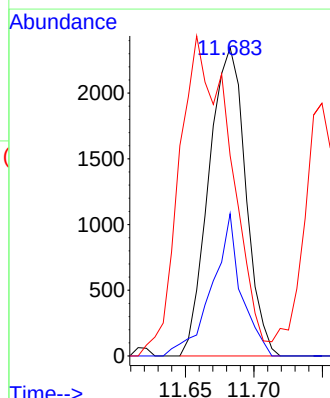
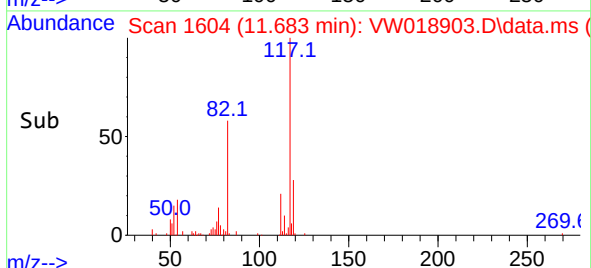
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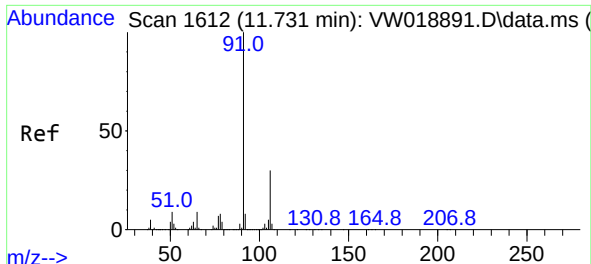


#51  
Chlorobenzene  
Concen: 0.36 ug/L  
RT: 11.683 min Scan# 1604  
Delta R.T. 0.025 min  
Lab File: VW018903.D  
Acq: 03 May 2021 16:57



Tgt Ion:112 Resp: 4392  
Ion Ratio Lower Upper  
112 100  
114 46.2 23.4 43.6#  
77 65.0 47.6 71.4





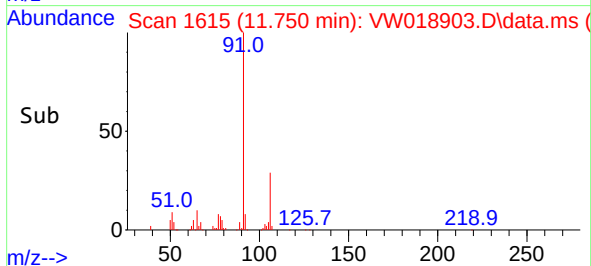
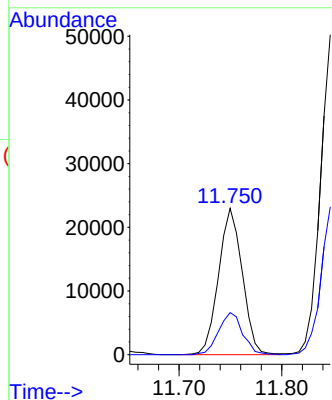
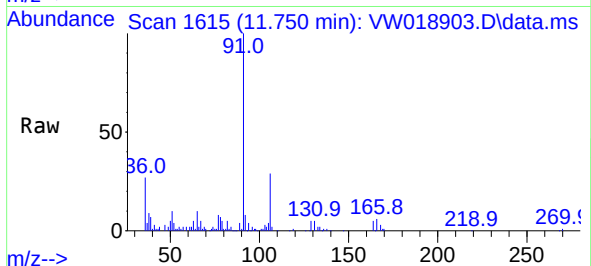
#52  
Ethylbenzene  
Concen: 1.65 ug/L  
RT: 11.750 min Scan# 1615  
Delta R.T. 0.019 min  
Lab File: VW018903.D  
Acq: 03 May 2021 16:57

Tgt Ion: 91 Resp: 36829  
Ion Ratio Lower Upper  
91 100  
106 28.8 22.5 41.7

Instrument :  
MSVOA\_W  
ClientSampled :  
BG7F1

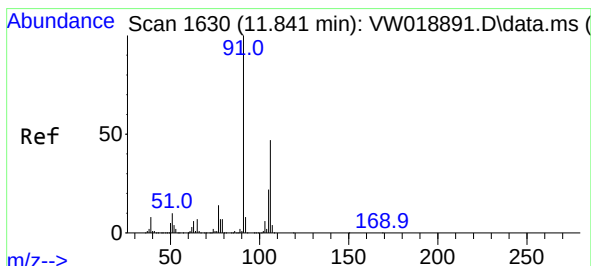
Manual Integrations  
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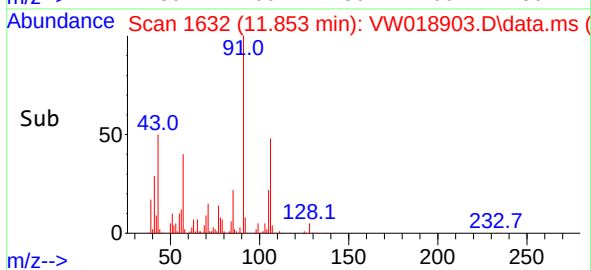
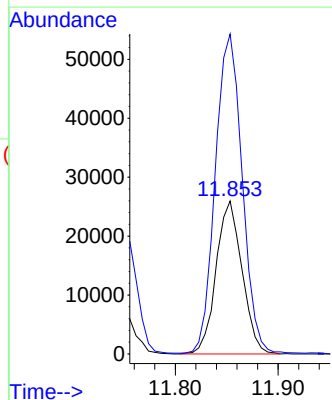
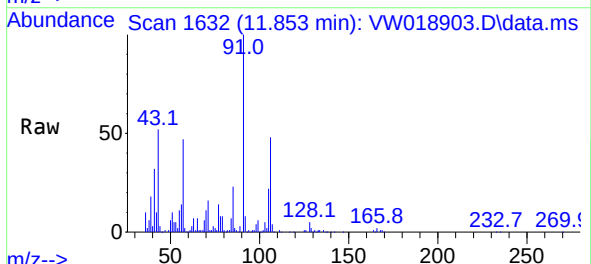
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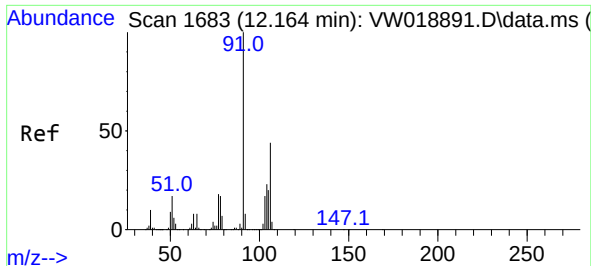


#53  
m,p-Xylene  
Concen: 5.48 ug/L  
RT: 11.853 min Scan# 1632  
Delta R.T. 0.012 min  
Lab File: VW018903.D  
Acq: 03 May 2021 16:57

Tgt Ion:106 Resp: 45422  
Ion Ratio Lower Upper  
106 100  
91 209.1 141.3 262.3







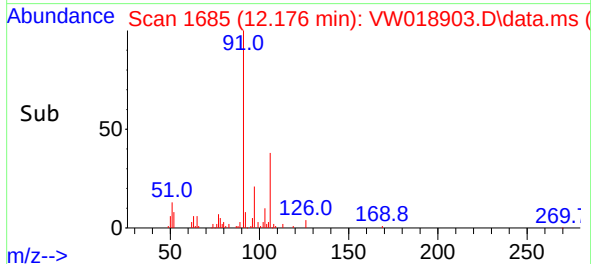
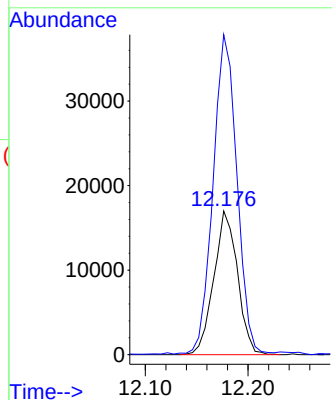
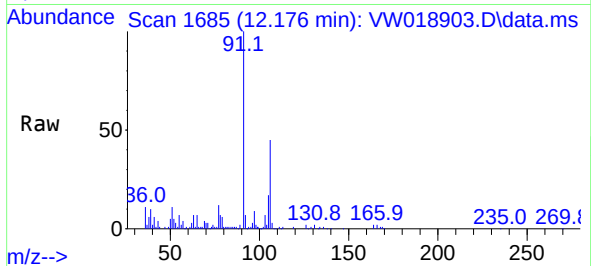
#54  
o-Xylene  
Concen: 3.44 ug/L  
RT: 12.176 min Scan# 1685  
Delta R.T. 0.012 min  
Lab File: VW018903.D  
Acq: 03 May 2021 16:57

Tgt Ion:106 Resp: 27164  
Ion Ratio Lower Upper  
106 100  
91 222.7 150.0 278.6

Instrument :  
MSVOA\_W  
ClientSampled :  
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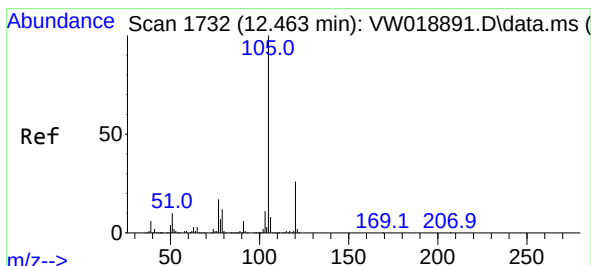
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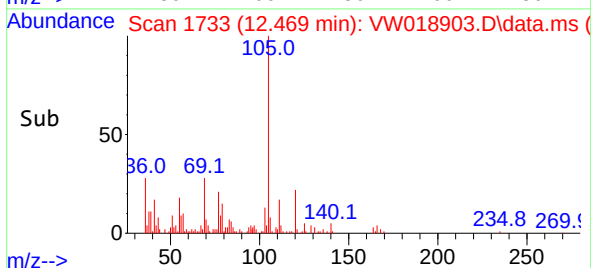
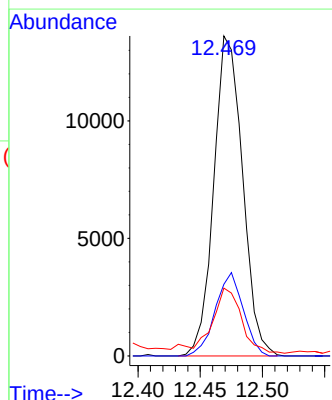
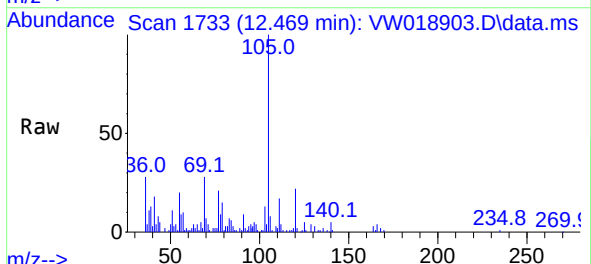
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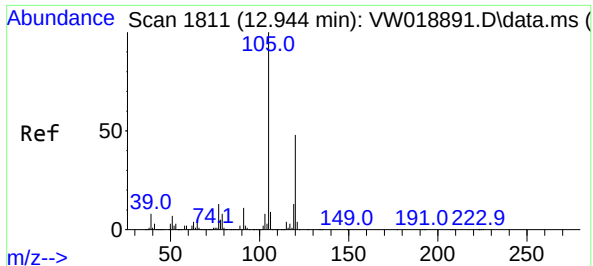
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#60  
Isopropylbenzene  
Concen: 1.23 ug/L m  
RT: 12.469 min Scan# 1733  
Delta R.T. 0.006 min  
Lab File: VW018903.D  
Acq: 03 May 2021 16:57

Tgt Ion:105 Resp: 21914  
Ion Ratio Lower Upper  
105 100  
120 95.4 21.1 31.7#  
77 47.8 13.2 19.8#





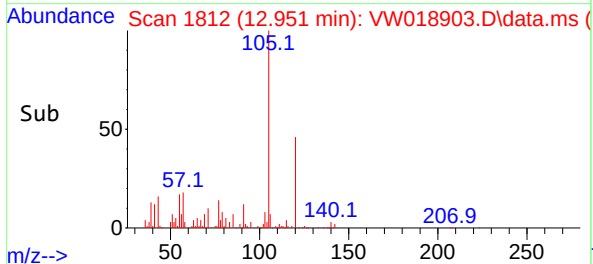
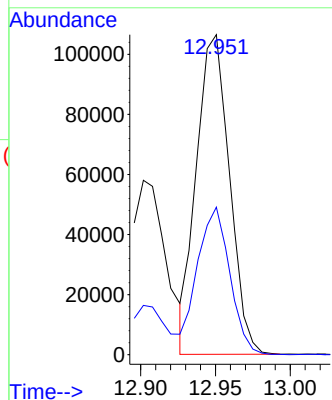
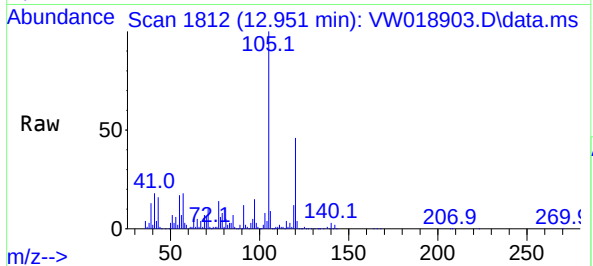
#62  
1,3,5-Trimethylbenzene  
Concen: 11.01 ug/L  
RT: 12.951 min Scan# 1812  
Delta R.T. 0.006 min  
Lab File: VW018903.D  
Acq: 03 May 2021 16:57

Tgt Ion:105 Resp: 163267  
Ion Ratio Lower Upper  
105 100  
120 45.2 39.0 58.6

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG7F1

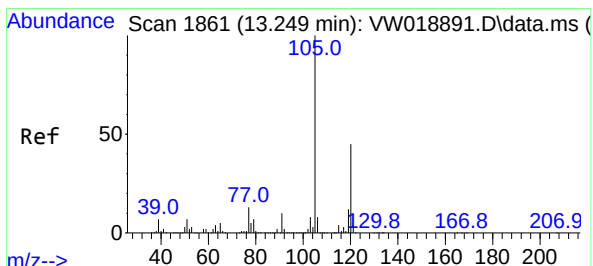
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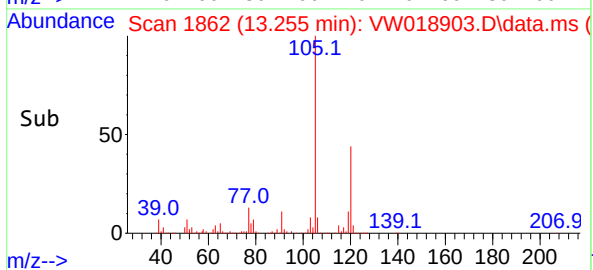
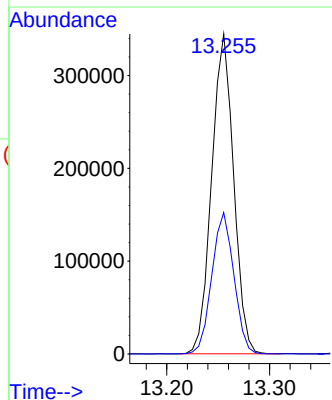
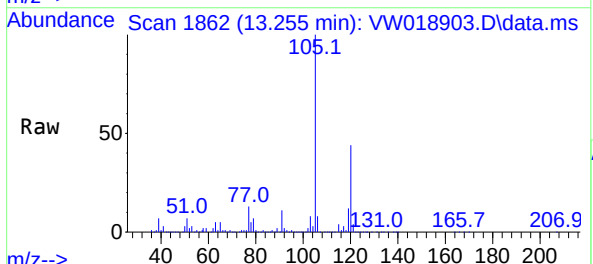
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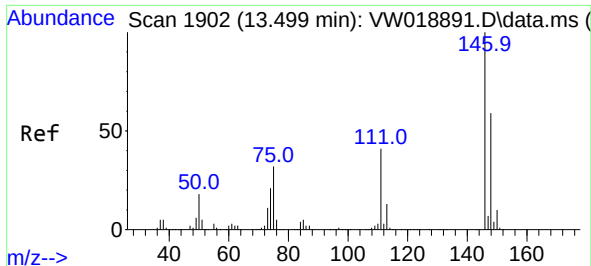
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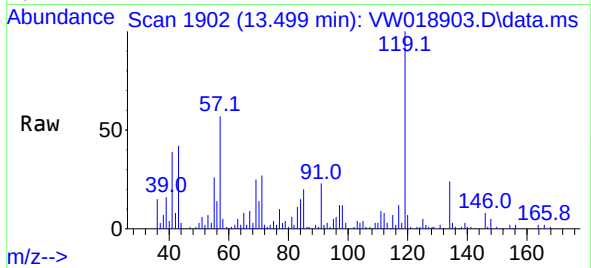
#63  
1,2,4-Trimethylbenzene  
Concen: 34.43 ug/L  
RT: 13.255 min Scan# 1862  
Delta R.T. 0.006 min  
Lab File: VW018903.D  
Acq: 03 May 2021 16:57

Tgt Ion:105 Resp: 510756  
Ion Ratio Lower Upper  
105 100  
120 44.4 35.6 53.4

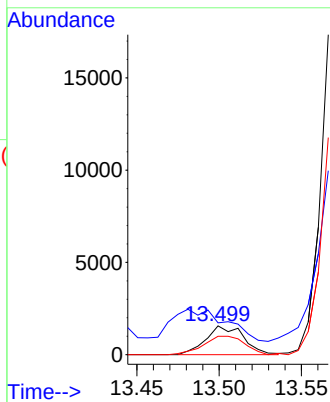
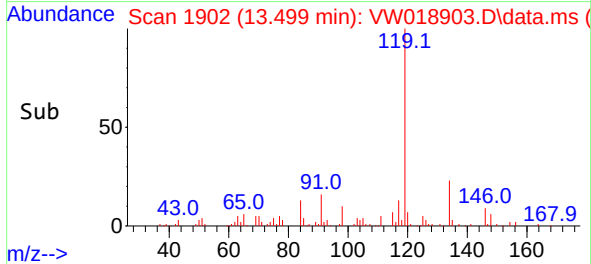




#64  
1,3-Dichlorobenzene  
Concen: 0.33 ug/L  
RT: 13.499 min Scan# 1902  
Delta R.T. 0.000 min  
Lab File: VW018903.D  
Acq: 03 May 2021 16:57



Tgt Ion:146 Resp: 2510  
Ion Ratio Lower Upper  
146 100  
111 110.8 26.7 49.7#  
148 64.1 41.1 76.3



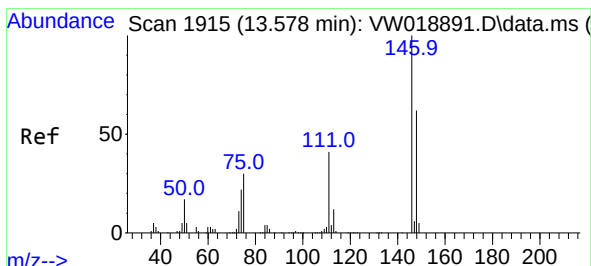
Instrument :  
MSVOA\_W  
ClientSampleId :  
BG7F1

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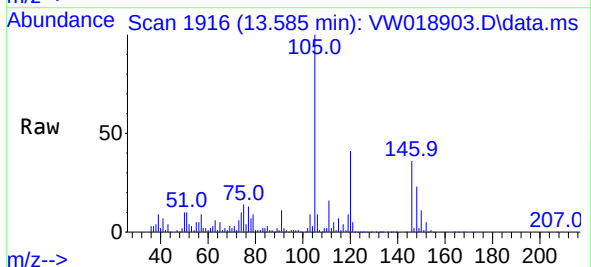
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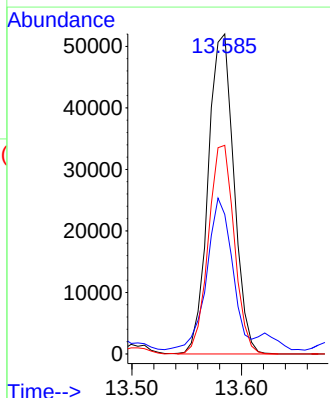
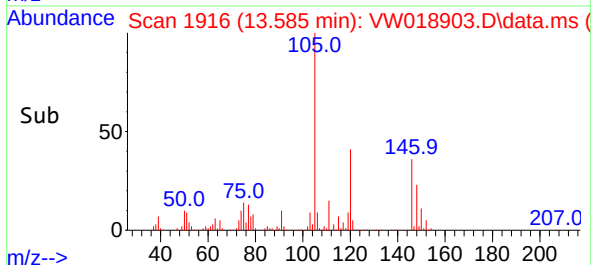
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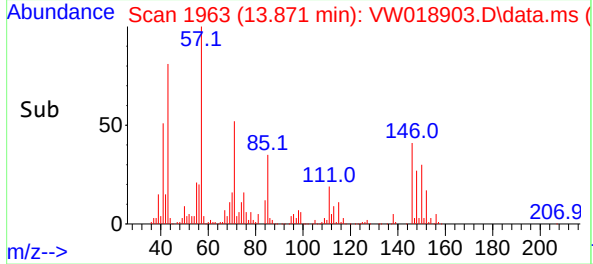
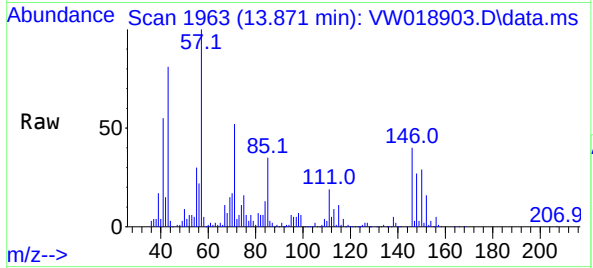
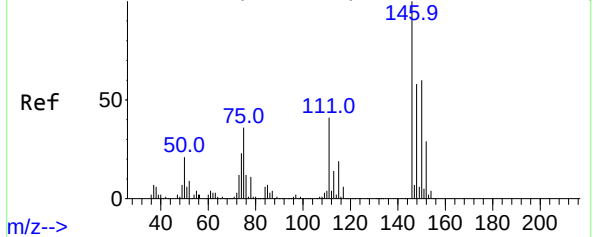
#65  
1,4-Dichlorobenzene  
Concen: 11.21 ug/L  
RT: 13.585 min Scan# 1916  
Delta R.T. 0.006 min  
Lab File: VW018903.D  
Acq: 03 May 2021 16:57



Tgt Ion:146 Resp: 84789  
Ion Ratio Lower Upper  
146 100  
111 43.6 28.8 53.4  
148 65.2 46.8 87.0

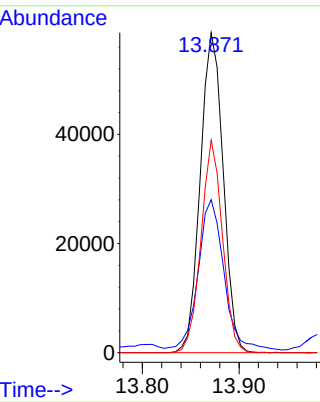


Abundance Scan 1962 (13.865 min): VW018891.D\data.ms (



#67  
1,2-Dichlorobenzene  
Concen: 14.17 ug/L  
RT: 13.871 min Scan# 1963  
Delta R.T. 0.006 min  
Lab File: VW018903.D  
Acq: 03 May 2021 16:57

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 96118 |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 47.8  | 33.2  | 49.8  |
| 148      | 66.3  | 50.4  | 75.6  |



Instrument :  
MSVOA\_W  
ClientSampleId :  
BG7F1

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