

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV092520\  
 Data File : VV018446.D  
 Acq On : 25 Sep 2020 11:33  
 Operator : SY/MD  
 Sample : L4109-11ME  
 Misc : 5.91g/5.0mL/100uL/5.0mL/MSVOA\_V/MEOH  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BG3X1ME

Manual Integrations  
 APPROVED

MMDadoda  
 9/28/2020 5:00:21 PM

Quant Time: Sep 29 01:31:53 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM090920WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Sep 25 23:36:18 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 404017   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 400255   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.28 | 152  | 210264   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.31    | 65    | 95859    | 29.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 58.22%# |
| 7) Chloroethane-d5             | 1.58    | 69    | 84192    | 31.25    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 62.50%# |
| 11) 1,1-Dichloroethene-d2      | 2.10    | 63    | 136889   | 22.66    | ug/L | -0.02   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 45.32%# |
| 21) 2-Butanone-d5              | 3.93    | 46    | 118530   | 58.81    | ug/L | 0.02    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 58.81%  |
| 24) Chloroform-d               | 4.37    | 84    | 217114   | 38.01    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 76.02%  |
| 26) 1,2-Dichloroethane-d4      | 5.05    | 65    | 144732   | 39.52    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 79.04%  |
| 32) Benzene-d6                 | 5.07    | 84    | 451009   | 39.36    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 78.72%  |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 149678   | 41.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 82.22%  |
| 41) Toluene-d8                 | 7.33    | 98    | 435940   | 41.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 83.50%  |
| 43) trans-1,3-Dichloropropene- | 7.65    | 79    | 75791    | 40.97    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 81.94%  |
| 47) 2-Hexanone-d5              | 8.14    | 63    | 127804   | 92.67    | ug/L | 0.04    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 92.67%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.25   | 84    | 213753   | 46.78    | ug/L | 0.01    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 93.56%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 196022   | 45.39    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 90.78%  |

## Target Compounds

| Target Compounds           | R.T.  | QIon | Response | Conc    | Units  | Ovalue |
|----------------------------|-------|------|----------|---------|--------|--------|
| 20) cis-1,2-Dichloroethene | 3.93  | 96   | 7326     | 2.507   | ug/L   | 95     |
| 29) Cyclohexane            | 4.69  | 56   | 47472    | 10.271  | ug/L   | 98     |
| 30) 1,1,1-Trichloroethane  | 4.62  | 97   | 68440    | 14.734  | ug/L   | 99     |
| 35) Methylcyclohexane      | 6.15  | 83   | 9153m    | 1.950   | ug/L   |        |
| 42) Toluene                | 7.41  | 91   | 1381778  | 114.097 | ug/L   | 100    |
| 52) Ethylbenzene           | 9.03  | 91   | 609882   | 46.127  | ug/L   | 99     |
| 53) m,p-Xylene             | 9.16  | 106  | 1043196  | 211.383 | ug/L   | 95     |
| 54) o-xylene               | 9.57  | 106  | 425457   | 89.487  | ug/L   | 100    |
| 56) Isopropylbenzene       | 9.95  | 105  | 604155   | 47.150  | ug/L   | 99     |
| 62) 1,3-Dichlorobenzene    | 11.21 | 146  | 4725     | 0.756   | ug/L # | 1      |
| 63) 1,4-Dichlorobenzene    | 11.30 | 146  | 8963     | 1.395   | ug/L # | 1      |
| 65) 1,2-Dichlorobenzene    | 11.67 | 146  | 39689    | 6.280   | ug/L # | 78     |
| 68) 1,2,4-trichlorobenzene | 13.29 | 180  | 32056    | 7.303   | ug/L # | 64     |
| 70) 1,2,3-Trichlorobenzene | 13.77 | 180  | 9326     | 2.157   | ug/L # | 86     |

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

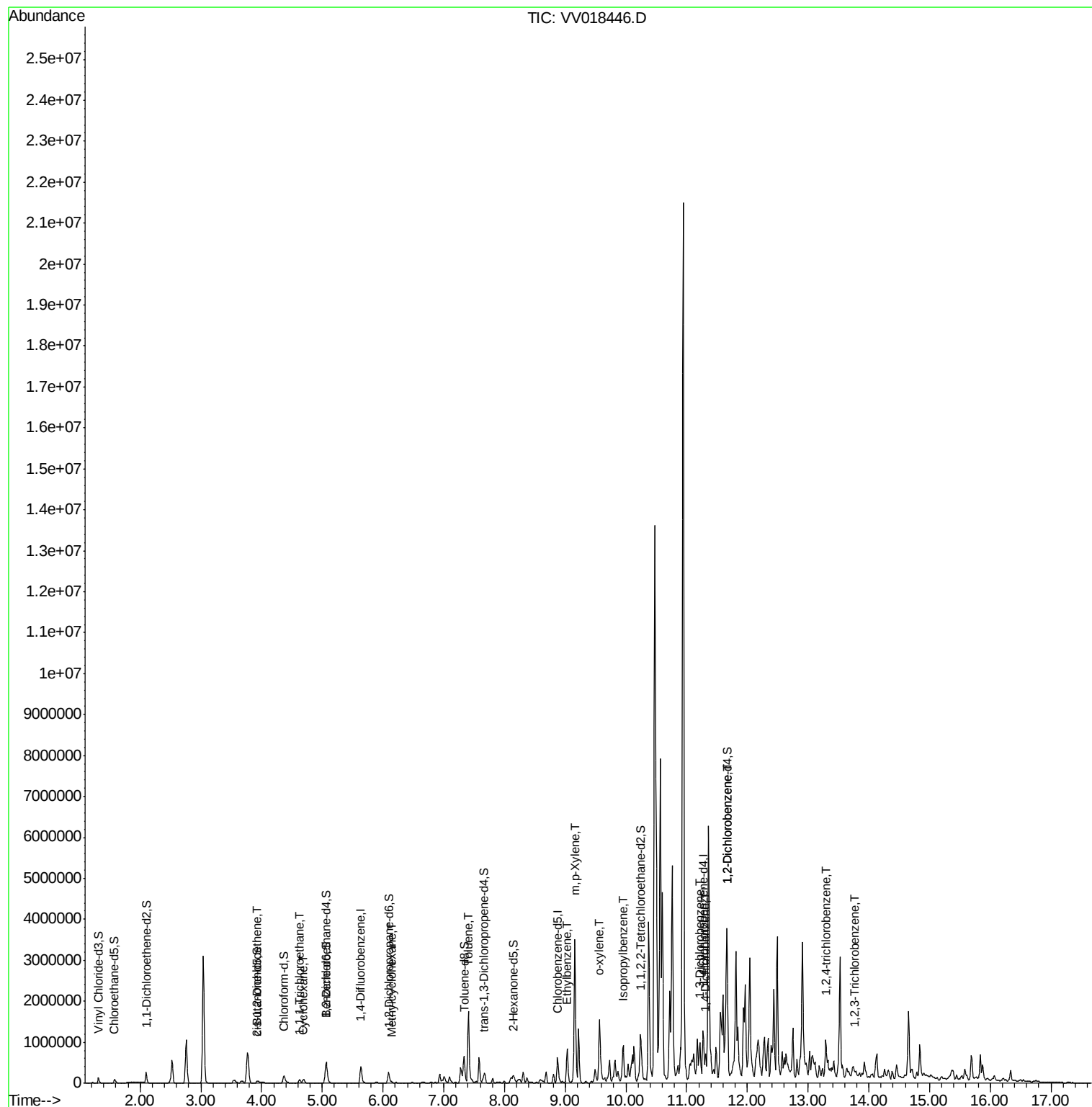
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV092520\  
Data File : VV018446.D  
Acq On : 25 Sep 2020 11:33  
Operator : SY/MD  
Sample : L4109-11ME  
Misc : 5.91g/5.0mL/100uL/5.0mL/MSVOA\_V/MEOH  
ALS Vial : 7 Sample Multiplier: 1

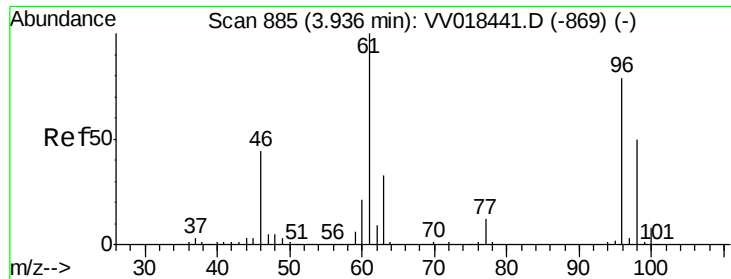
Instrument :  
MSVOA\_V  
ClientSampleId :  
BG3X1ME

Manual Integrations  
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9/28/2020 5:00:21 PM

Quant Time: Sep 29 01:31:53 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM090920WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Sep 25 23:36:18 2020  
Response via : Initial Calibration





#20

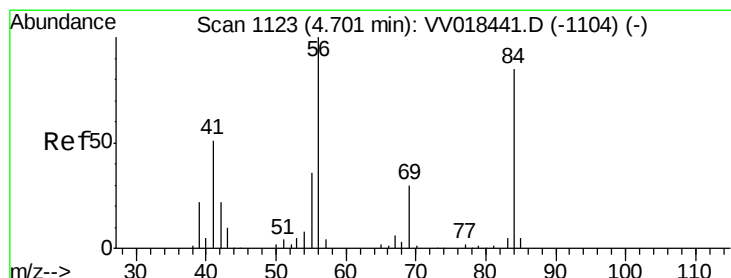
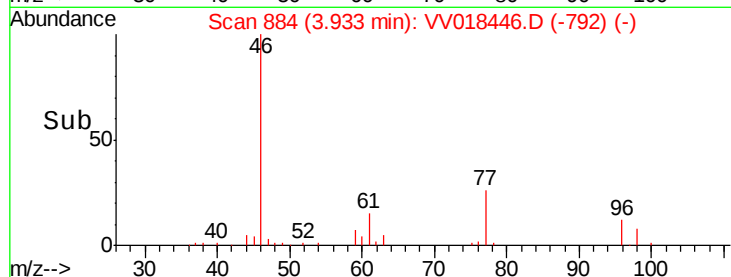
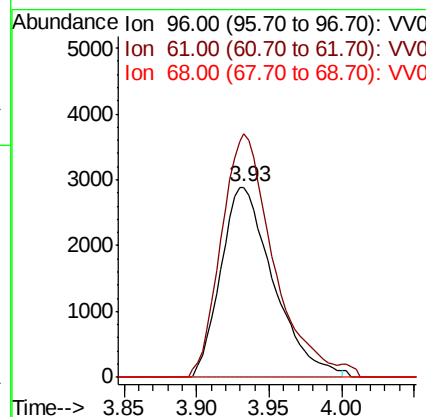
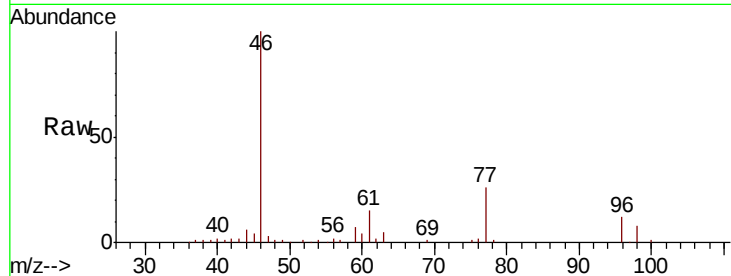
cis-1,2-Dichloroethene  
 Concen: 2.507 ug/L  
 RT: 3.93 min Scan# 884  
 Delta R.T. -0.00 min  
 Lab File: VV018446.D  
 Acq: 25 Sep 2020 11:33

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BG3X1ME

| Tot Ion | Ion   | Ratio | Lower | Upper |
|---------|-------|-------|-------|-------|
| 96      | 100   |       |       |       |
| 61      | 127.9 | 93.6  | 173.8 |       |
| 68      | 0.0   | 0.0   | 0.0   |       |

Manual Integrations  
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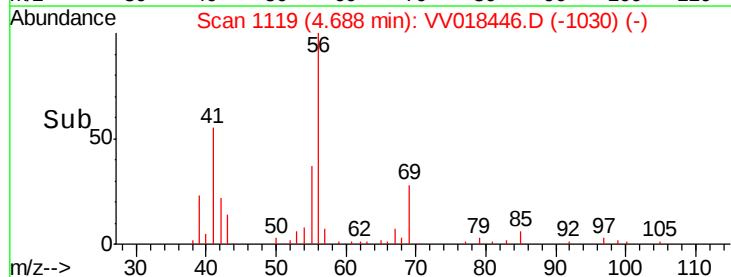
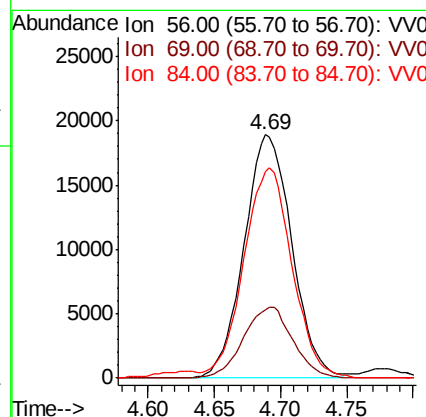
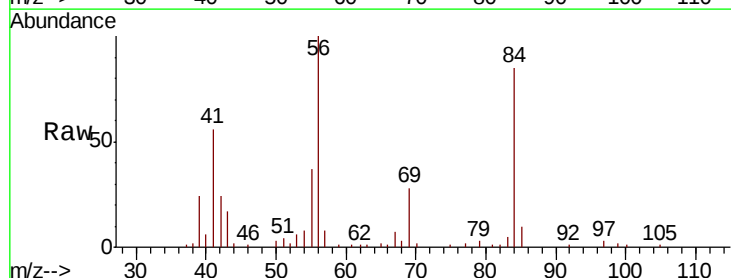
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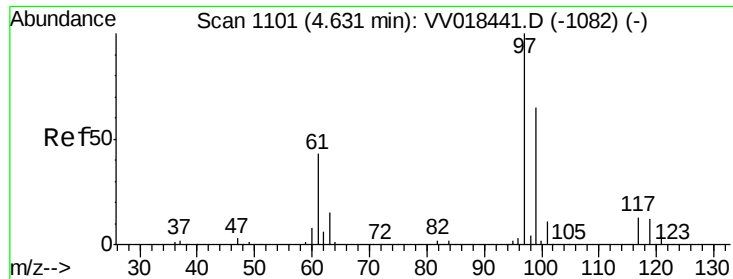


#29

Cyclohexane  
 Concen: 10.271 ug/L  
 RT: 4.69 min Scan# 1119  
 Delta R.T. -0.01 min  
 Lab File: VV018446.D  
 Acq: 25 Sep 2020 11:33

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 56      | 100  |       |       |       |
| 69      | 30.0 | 24.2  | 36.2  |       |
| 84      | 87.5 | 68.3  | 102.5 |       |





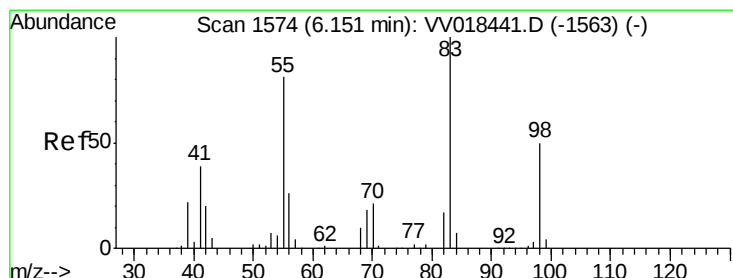
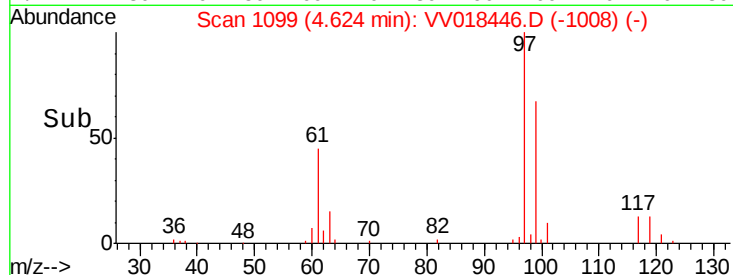
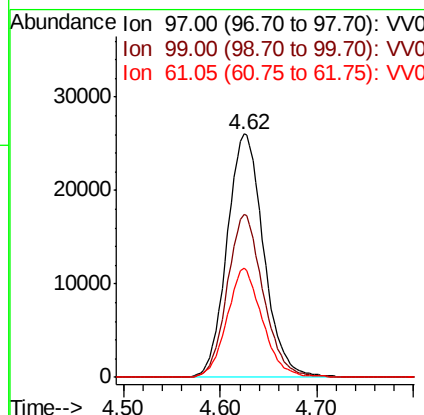
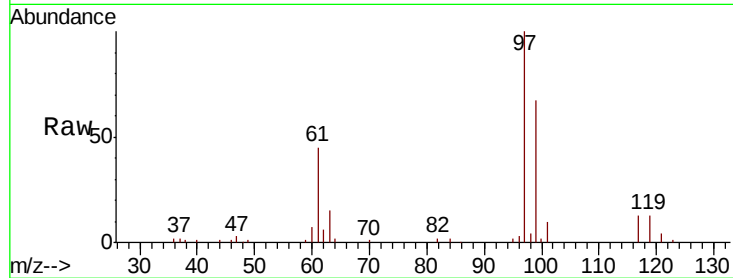
#30  
 1,1,1-Trichloroethane  
 Concen: 14.734 ug/L  
 RT: 4.62 min Scan# 1099  
 Delta R.T. -0.01 min  
 Lab File: VV018446.D  
 Acq: 25 Sep 2020 11:33

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BG3X1ME

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 65.6  | 51.6  | 77.4  |
| 61      | 43.2  | 34.9  | 52.3  |

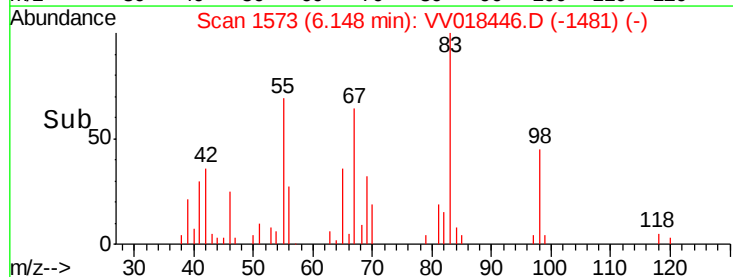
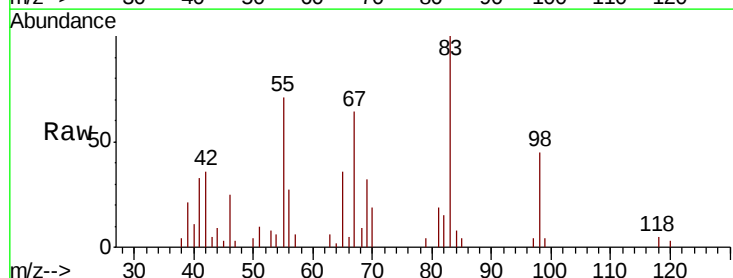
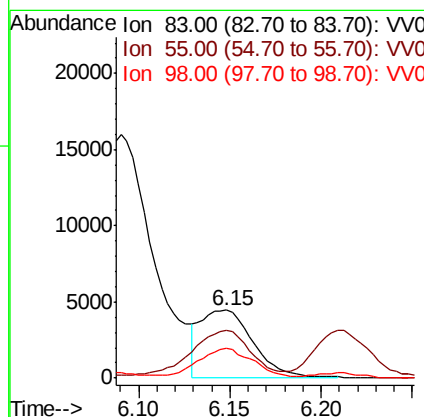
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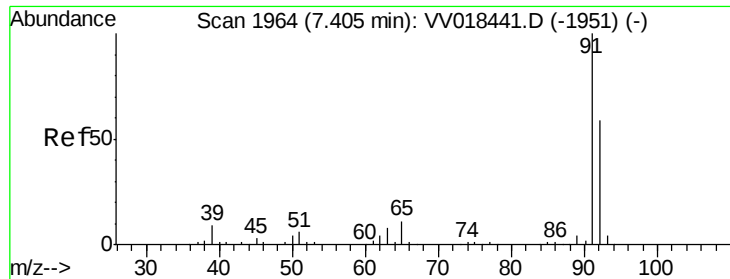
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#35  
 Methylcyclohexane  
 Concen: 1.950 ug/L m  
 RT: 6.15 min Scan# 1573  
 Delta R.T. -0.00 min  
 Lab File: VV018446.D  
 Acq: 25 Sep 2020 11:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 3.1   | 63.4  | 95.2# |
| 98      | 4.9   | 38.8  | 58.2# |





#42

Toluene

Concen: 114.097 ug/L

RT: 7.41 min Scan# 1964

Delta R.T. -0.00 min

Lab File: VV018446.D

Acq: 25 Sep 2020 11:33

Instrument :

MSVOA\_V

ClientSampleId :

BG3X1ME

Tot Ion: 91 Resp: 1381778

Ion Ratio Lower Upper

91 100

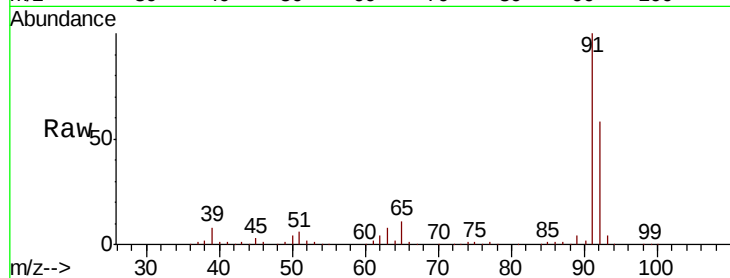
92 58.2 40.7 75.5

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0

7.41

800000

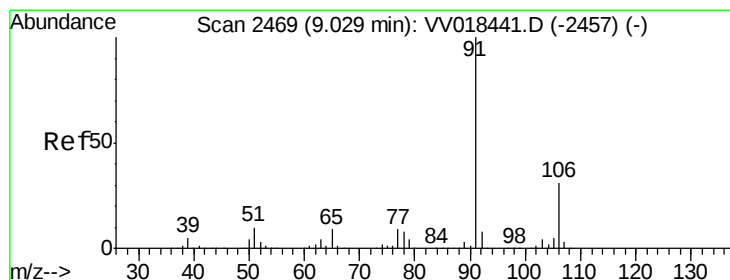
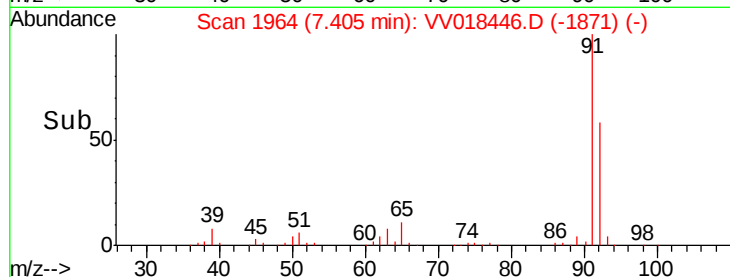
600000

400000

200000

0

Time--> 7.30 7.40 7.50



#52

Ethylbenzene

Concen: 46.127 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. 0.00 min

Lab File: VV018446.D

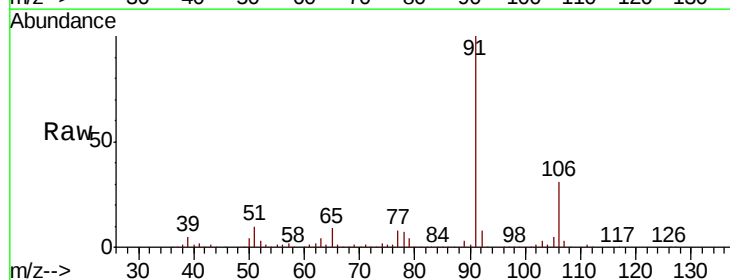
Acq: 25 Sep 2020 11:33

Tgt Ion: 91 Resp: 609882

Ion Ratio Lower Upper

91 100

106 30.8 21.3 39.5



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 106.00 (105.70 to 106.70): V

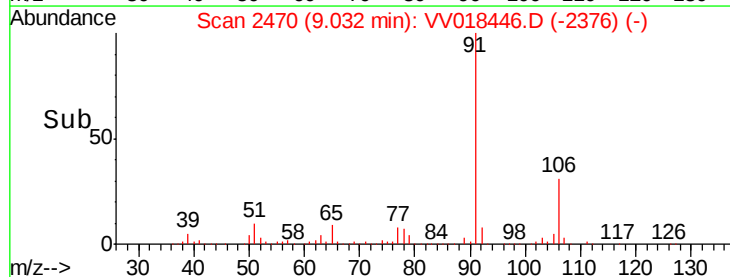
9.03

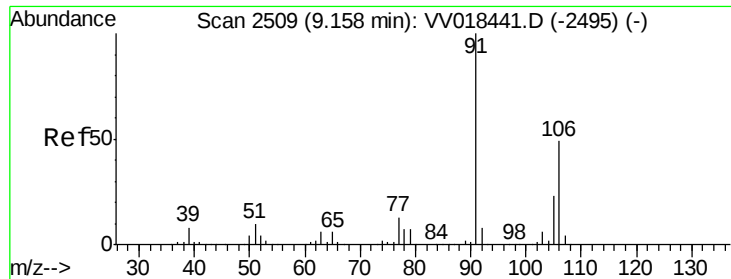
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500000

0

Time--> 8.95 9.00 9.05 9.10 9.15





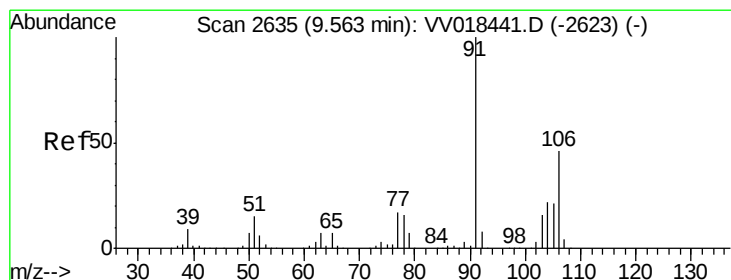
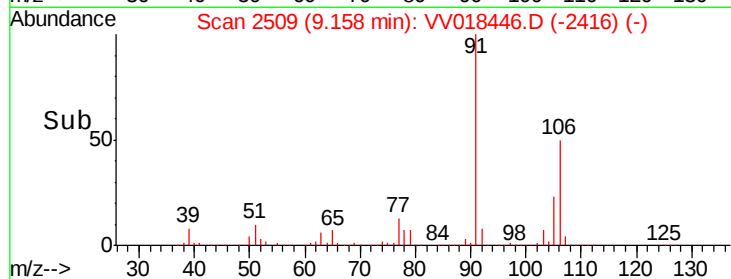
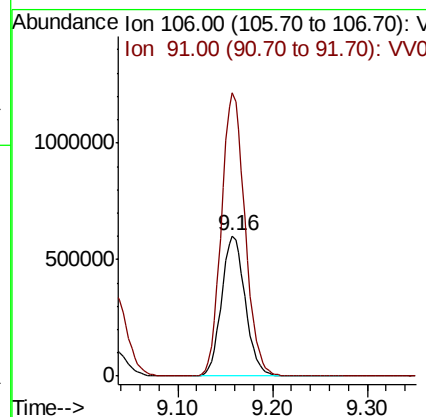
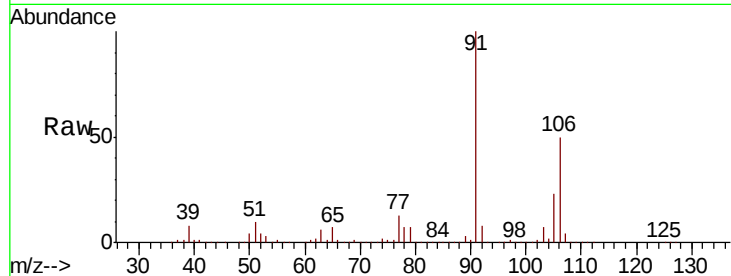
#53  
m,p-Xylene  
Concen: 211.383 ug/L  
RT: 9.16 min Scan# 2509  
Delta R.T. -0.00 min  
Lab File: VV018446.D  
Acq: 25 Sep 2020 11:33

Instrument :  
MSVOA\_V  
ClientSampleId :  
BG3X1ME

Tot Ion:106 Resp: 1043196  
Ion Ratio Lower Upper  
106 100  
91 202.0 146.7 272.5

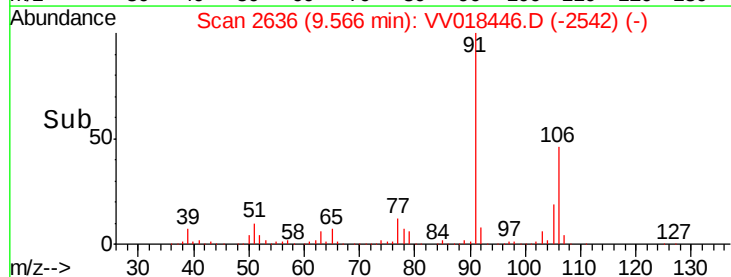
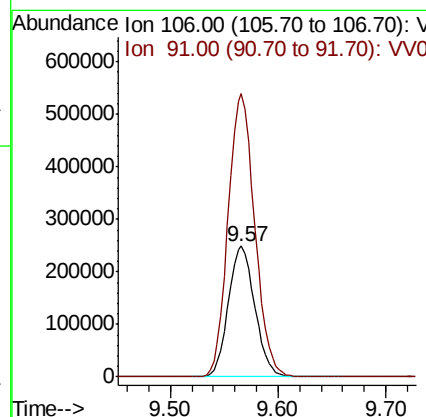
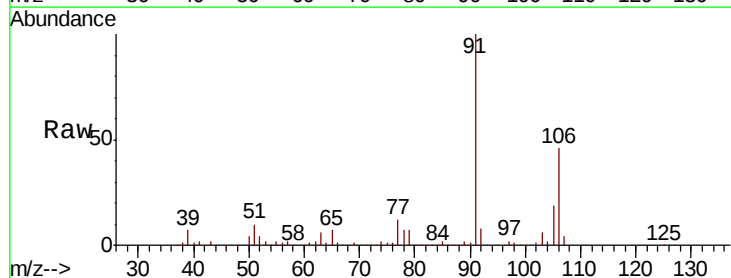
Manual Integrations  
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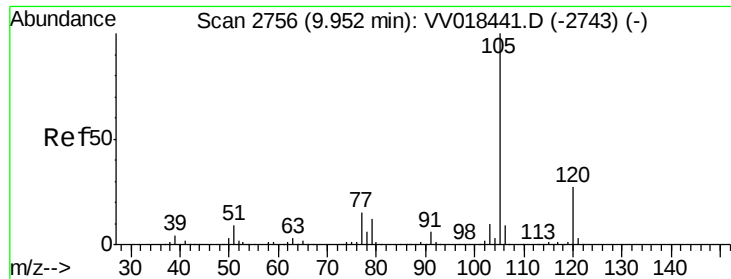
MMDadoda  
9/28/2020 5:00:21 PM



#54  
o-xylene  
Concen: 89.487 ug/L  
RT: 9.57 min Scan# 2636  
Delta R.T. 0.00 min  
Lab File: VV018446.D  
Acq: 25 Sep 2020 11:33

Tgt Ion:106 Resp: 425457  
Ion Ratio Lower Upper  
106 100  
91 217.0 152.2 282.6





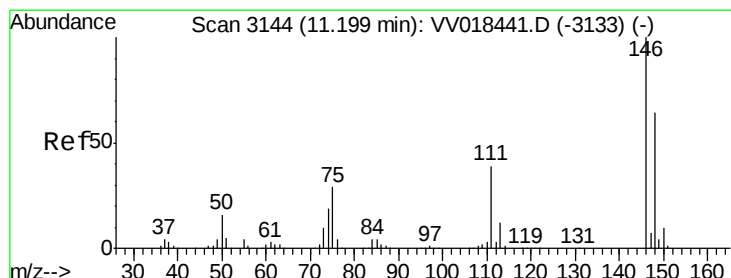
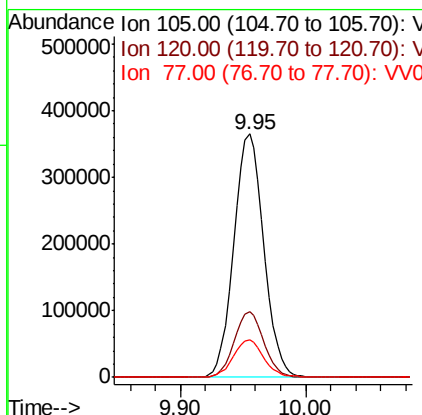
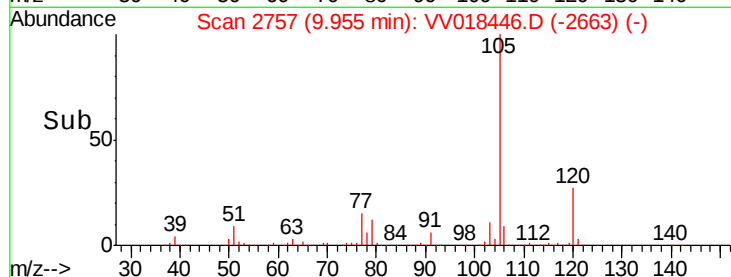
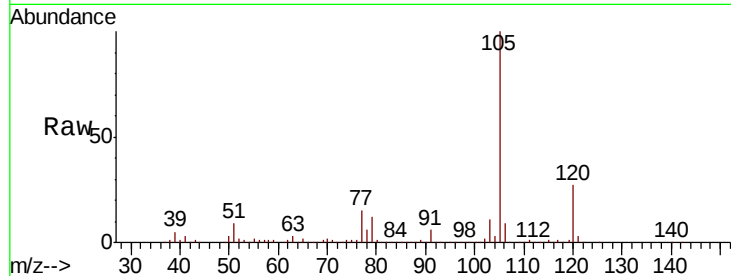
#56  
Isopropylbenzene  
Concen: 47.150 ug/L  
RT: 9.95 min Scan# 2757  
Delta R.T. 0.00 min  
Lab File: VV018446.D  
Acq: 25 Sep 2020 11:33

Instrument :  
MSVOA\_V  
ClientSampled :  
BG3X1ME

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 26.6  | 20.9  | 31.3  |
| 77      | 15.7  | 12.5  | 18.7  |

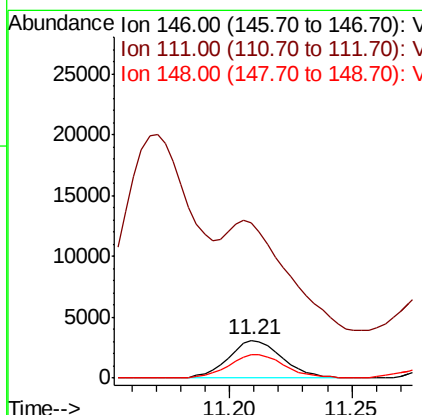
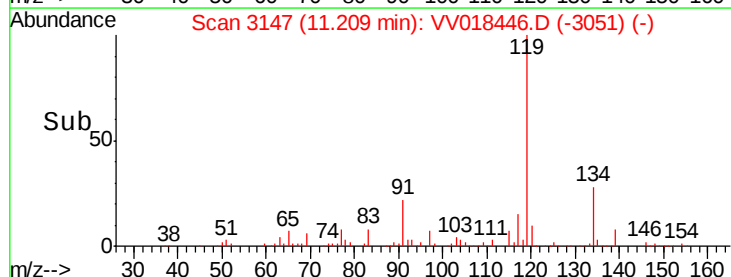
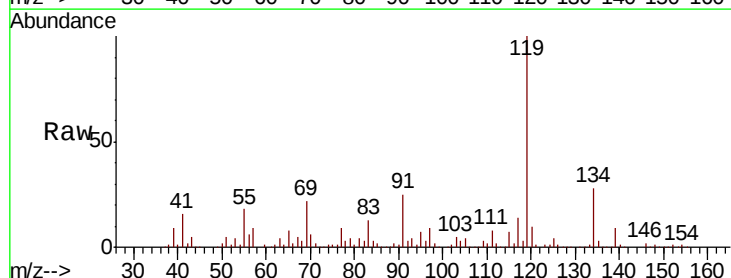
Manual Integrations  
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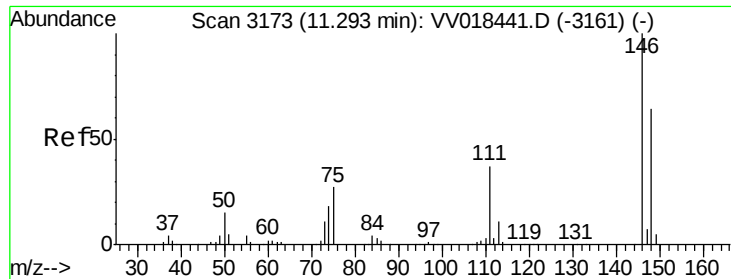
MMDadoda  
9/28/2020 5:00:21 PM



#62  
1,3-Dichlorobenzene  
Concen: 0.756 ug/L  
RT: 11.21 min Scan# 3147  
Delta R.T. 0.01 min  
Lab File: VV018446.D  
Acq: 25 Sep 2020 11:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 408.0 | 27.6  | 51.2# |
| 148     | 60.9  | 45.4  | 84.2  |





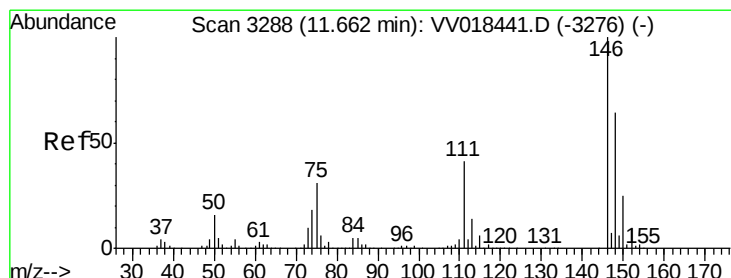
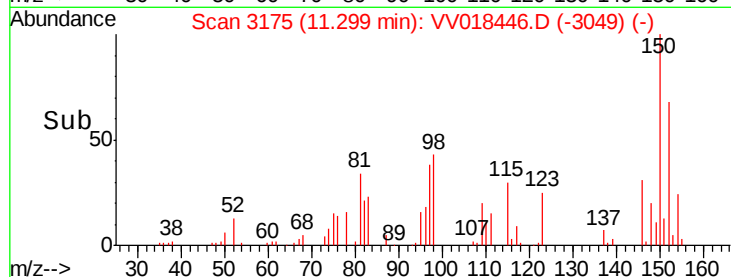
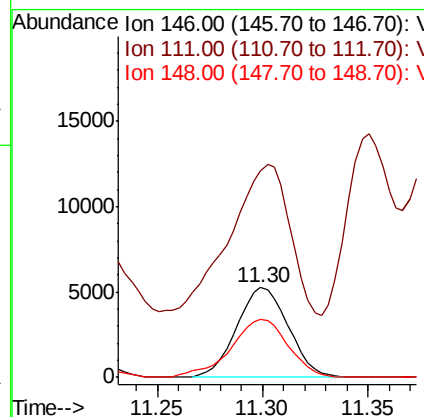
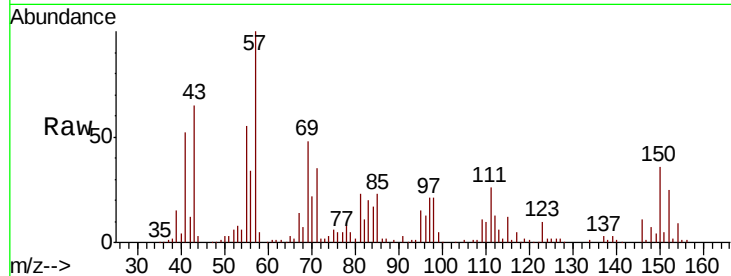
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1,4-Dichlorobenzene  
Concen: 1.395 ug/L  
RT: 11.30 min Scan# 3175  
Delta R.T. 0.01 min  
Lab File: VV018446.D  
Acq: 25 Sep 2020 11:33

Instrument :  
MSVOA\_V  
ClientSampleId :  
BG3X1ME

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 230.1 | 27.1  | 50.3# |
| 148     | 65.2  | 45.4  | 84.2  |

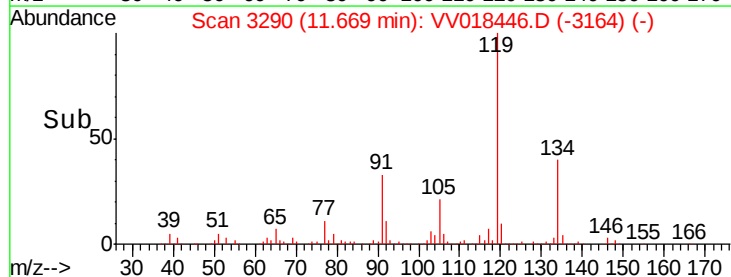
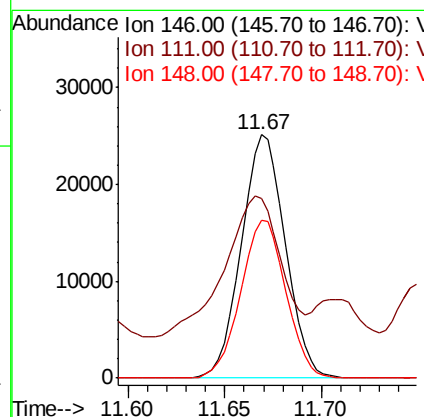
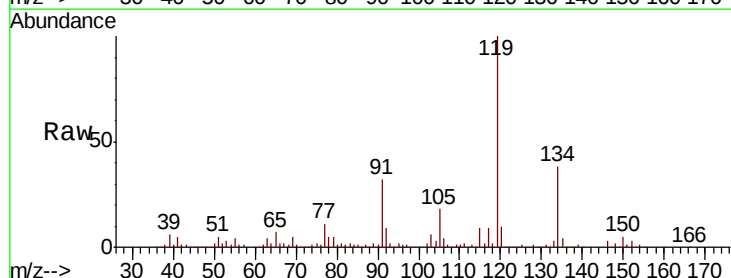
Manual Integrations  
APPROVED

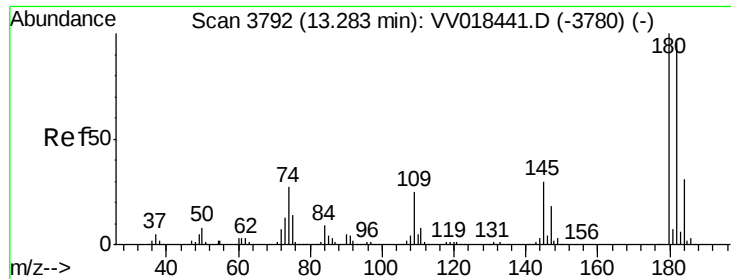
MMDadoda  
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#65  
1,2-Dichlorobenzene  
Concen: 6.280 ug/L  
RT: 11.67 min Scan# 3290  
Delta R.T. 0.01 min  
Lab File: VV018446.D  
Acq: 25 Sep 2020 11:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 73.7  | 32.8  | 49.2# |
| 148     | 65.0  | 50.7  | 76.1  |





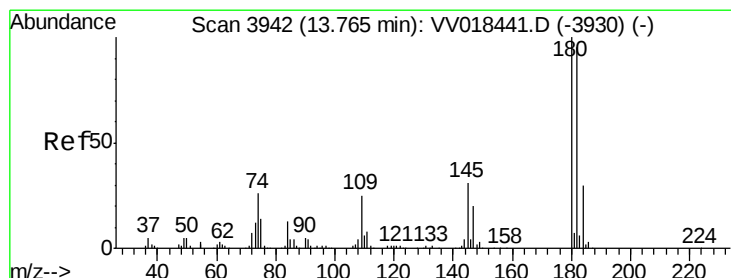
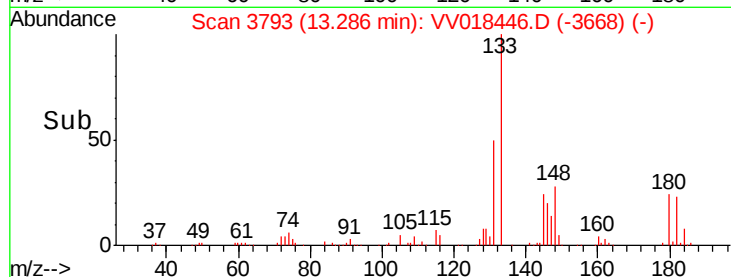
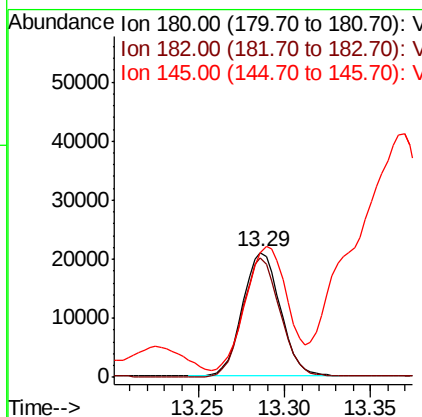
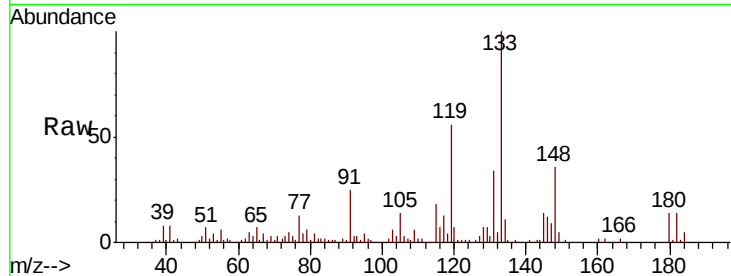
#68  
 1,2,4-trichlorobenzene  
 Concen: 7.303 ug/L  
 RT: 13.29 min Scan# 3793  
 Delta R.T. 0.00 min  
 Lab File: VV018446.D  
 Acq: 25 Sep 2020 11:33

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BG3X1ME

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.0  | 77.4  | 116.2 |
| 145     | 109.2 | 23.2  | 34.8# |

Manual Integrations  
 APPROVED

MMDadoda  
 9/28/2020 5:00:21 PM



#70  
 1,2,3-Trichlorobenzene  
 Concen: 2.157 ug/L  
 RT: 13.77 min Scan# 3944  
 Delta R.T. 0.01 min  
 Lab File: VV018446.D  
 Acq: 25 Sep 2020 11:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.1  | 76.5  | 114.7 |
| 145     | 0.0   | 24.9  | 37.3# |

