

Data File : VV013220.D  
Acq On : 18 Oct 2019 23:36  
Operator : SY/MD  
Sample : K5404-02  
Misc : 25.00ML/MSVOA\_V/WATER  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AA8

Quant Time: Oct 19 06:38:37 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR101819WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Oct 19 06:35:52 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 401393   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 440561   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 221076   | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 189605   | 4.60     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 92.00%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 158741   | 4.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 97.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 223990   | 3.51     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 70.20%  |
| 20) 2-Butanone-d5              | 3.97   | 46    | 495664   | 58.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 117.48% |
| 24) Chloroform-d               | 4.40   | 84    | 392772   | 4.97     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 99.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 200870   | 5.36     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 107.20% |
| 32) Benzene-d6                 | 5.09   | 84    | 782285   | 4.65     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 248647   | 4.96     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 99.20%  |
| 41) Toluene-d8                 | 7.36   | 98    | 623478   | 4.17     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 83.40%  |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 76700    | 4.29     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 85.80%  |
| 46) 2-Hexanone-d5              | 8.13   | 63    | 369510   | 51.41    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 102.82% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 189861   | 5.30     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 106.00% |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 255030   | 5.44     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 108.80% |

#### Target Compounds

|                                |       |     |       |              | Qvalue |
|--------------------------------|-------|-----|-------|--------------|--------|
| 3) Chloromethane               | 1.25  | 50  | 3894  | 0.081 ug/L   | 88     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13  | 101 | 2990  | 0.088 ug/L # | 28     |
| 13) Acetone                    | 2.24  | 43  | 6817  | 1.765 ug/L   | 86     |
| 14) Carbon disulfide           | 2.31  | 76  | 3720  | 0.041 ug/L # | 76     |
| 17) Methyl tert-butyl Ether    | 2.81  | 73  | 19735 | 0.229 ug/L # | 87     |
| 27) 1,2-Dichloroethane         | 5.18  | 62  | 31355 | 0.711 ug/L   | 97     |
| 33) Benzene                    | 5.15  | 78  | 10852 | 0.061 ug/L   | 100    |
| 35) Methylcyclohexane          | 6.12  | 83  | 57277 | 0.811 ug/L # | 17     |
| 37) 1,2-Dichloropropane        | 6.12  | 63  | 27326 | 0.624 ug/L # | 87     |
| 42) Toluene                    | 7.43  | 91  | 15863 | 0.087 ug/L   | 96     |
| 44) trans-1,3-Dichloropropene  | 7.66  | 75  | 4116  | 0.091 ug/L # | 77     |
| 48) 2-Hexanone                 | 8.13  | 43  | 57350 | 3.355 ug/L # | 84     |
| 51) Chlorobenzene              | 8.92  | 112 | 12507 | 0.107 ug/L   | 95     |
| 63) 1,4-Dichlorobenzene        | 11.31 | 146 | 6320  | 0.080 ug/L   | 92     |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180 | 3158  | 0.054 ug/L   | 97     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV101819\  
Quantitation Report (Not Reviewed)

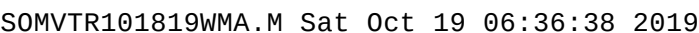
Data File : VV013220.D  
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Operator : SY/MD  
Sample : K5404-02  
Misc : 25.00ML/MSVOA\_V/WATER  
ALS Vial : 28 Sample Multiplier: 1

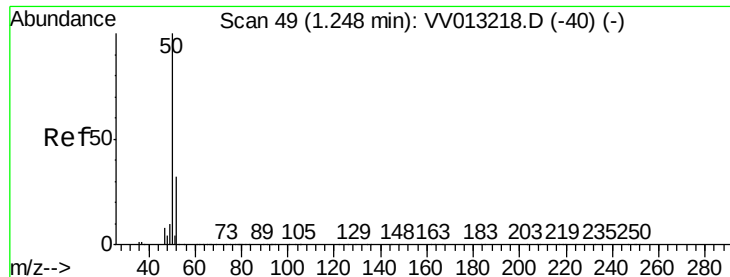
Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AA8

Quant Time: Oct 19 06:38:37 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR101819WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Oct 19 06:35:52 2019  
Response via : Initial Calibration

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

Quant Time: Oct 19 06:38:37 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR101819WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Oct 19 06:35:52 2019  
Response via : Initial Calibration





#3

Chloromethane

Concen: 0.081 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV013220.D

Acq: 18 Oct 2019 23:36

Instrument :

MSVOA\_V

ClientSampleId :

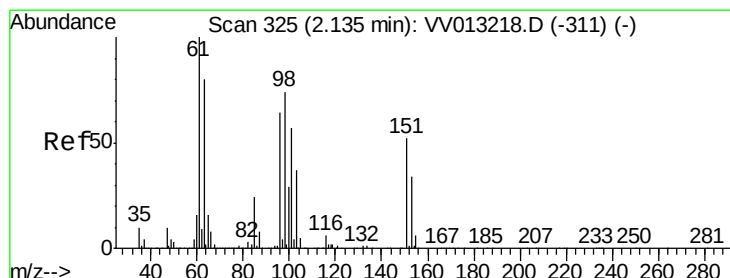
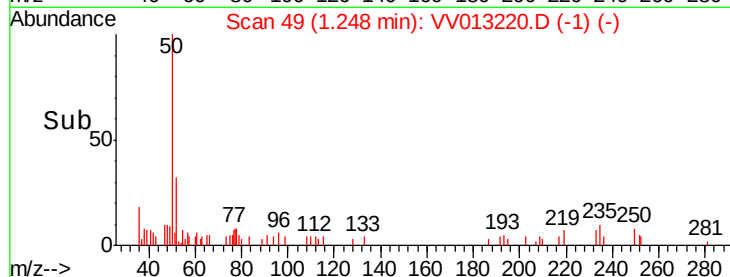
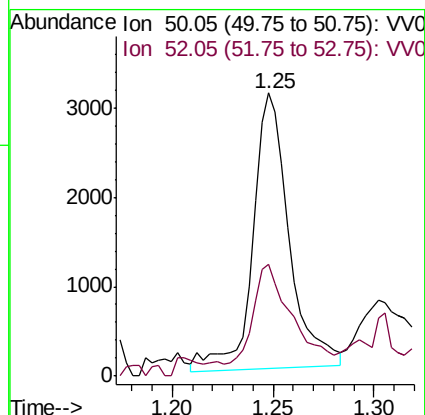
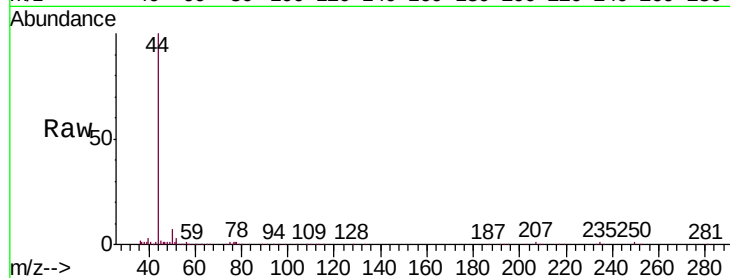
C0AA8

Tgt Ion: 50 Resp: 3894

Ion Ratio Lower Upper

50 100

52 39.4 23.0 42.8



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.088 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV013220.D

Acq: 18 Oct 2019 23:36

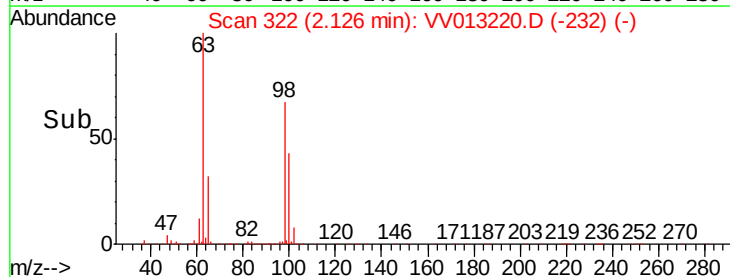
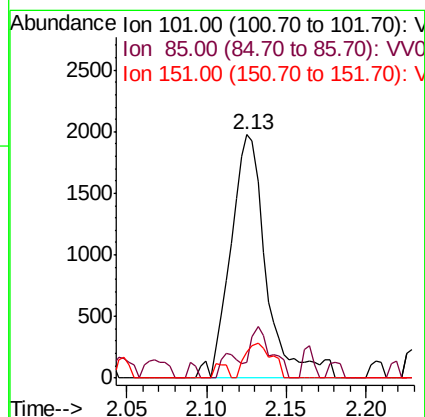
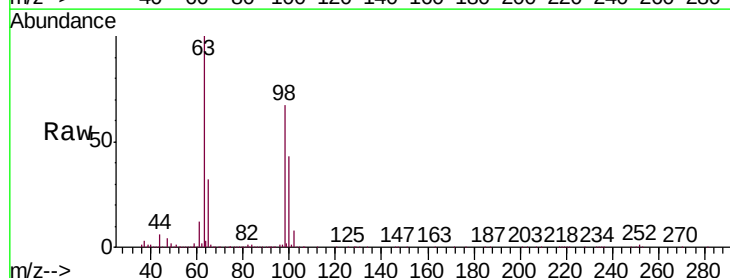
Tgt Ion: 101 Resp: 2990

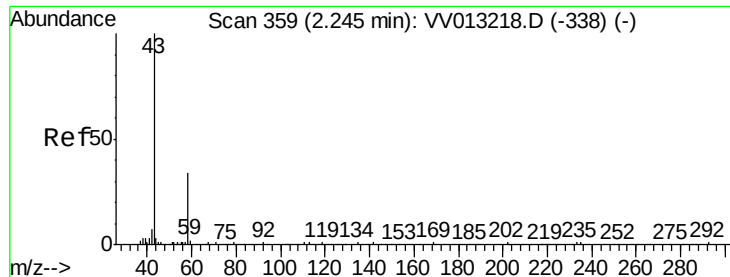
Ion Ratio Lower Upper

101 100

85 12.5 32.4 48.6#

151 10.5 71.9 107.9#





#13

Acetone

Concen: 1.765 ug/L

RT: 2.24 min Scan# 358

Delta R.T. -0.00 min

Lab File: VV013220.D

Acq: 18 Oct 2019 23:36

Instrument :

MSVOA\_V

ClientSampleId :

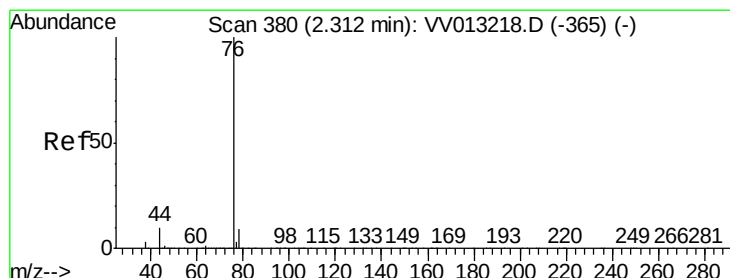
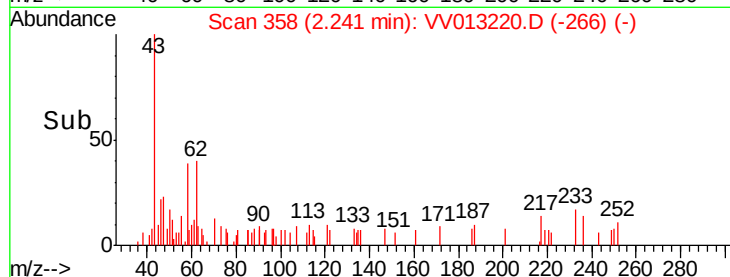
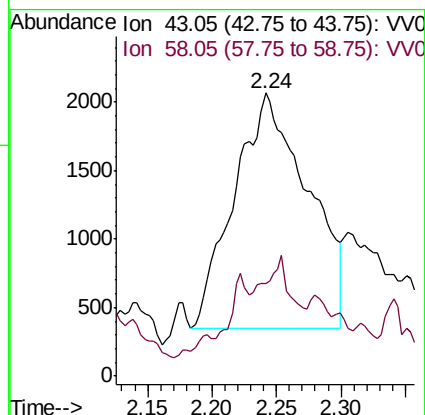
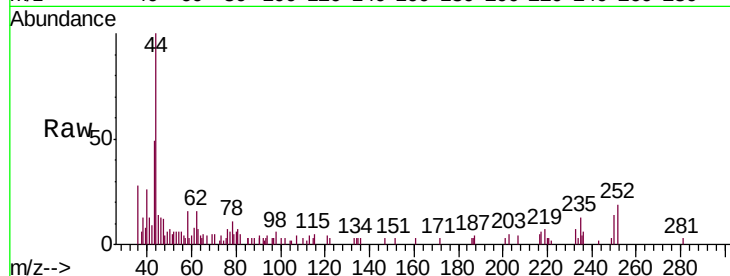
C0AA8

Tgt Ion: 43 Resp: 6817

Ion Ratio Lower Upper

43 100

58 19.0 0.0 52.4



#14

Carbon disulfide

Concen: 0.041 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VV013220.D

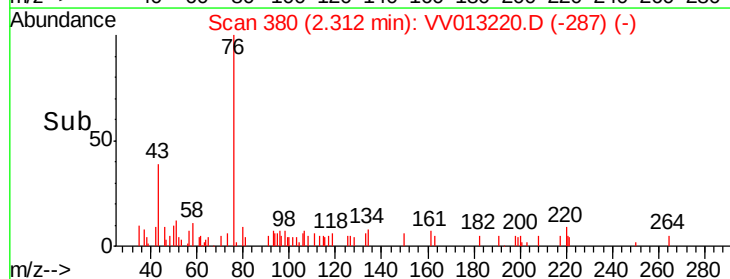
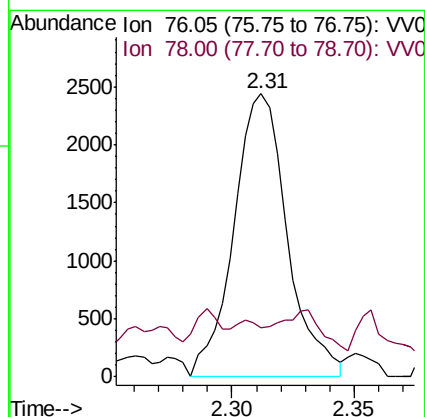
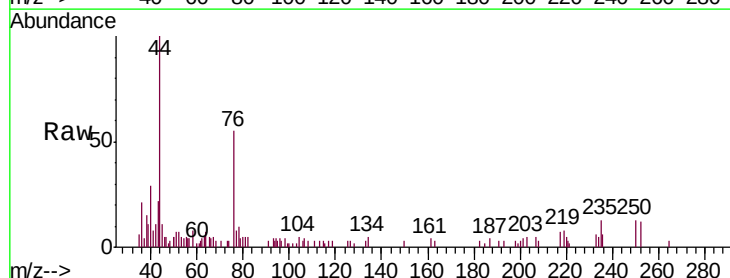
Acq: 18 Oct 2019 23:36

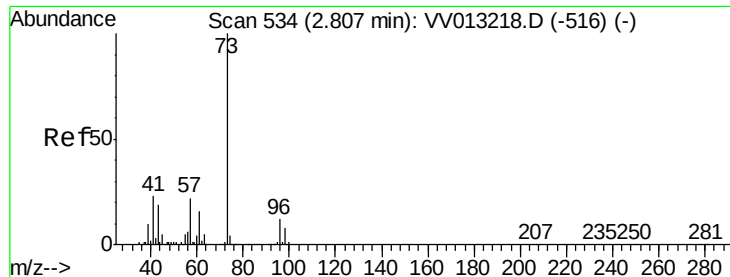
Tgt Ion: 76 Resp: 3720

Ion Ratio Lower Upper

76 100

78 17.5 7.1 10.7#

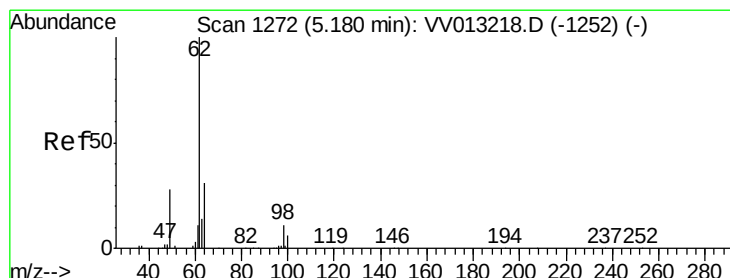
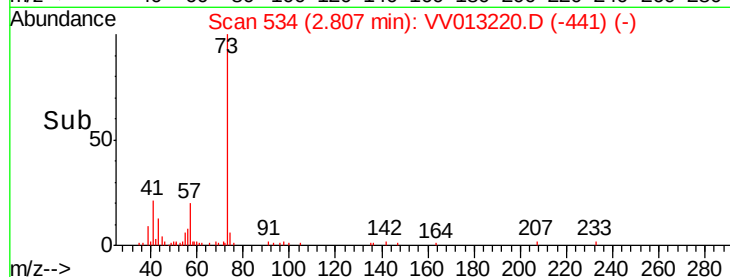
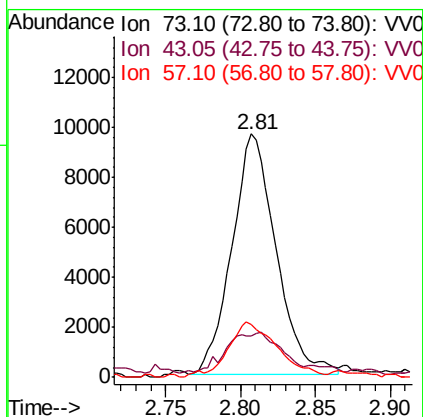
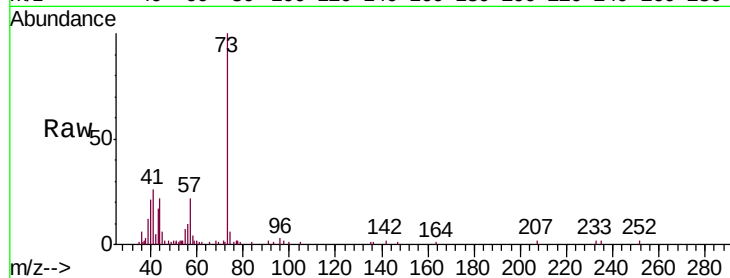




#17  
Methyl tert-butyl Ether  
Concen: 0.229 ug/L  
RT: 2.81 min Scan# 534  
Delta R.T. -0.00 min  
Lab File: VV013220.D  
Acq: 18 Oct 2019 23:36

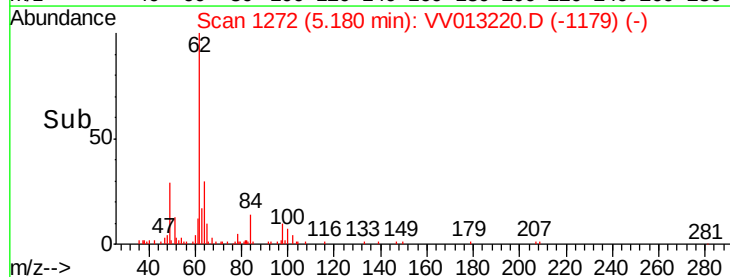
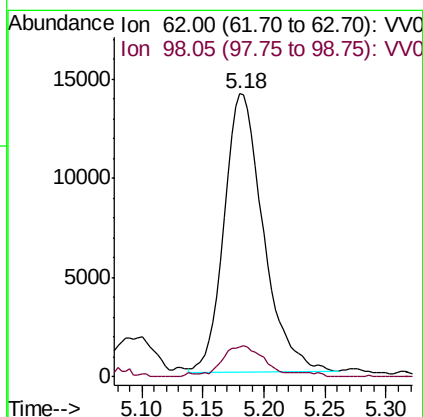
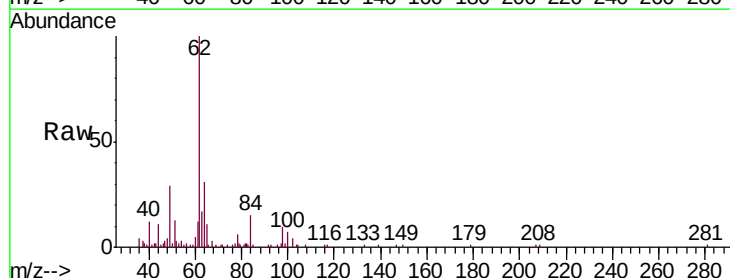
Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AA8

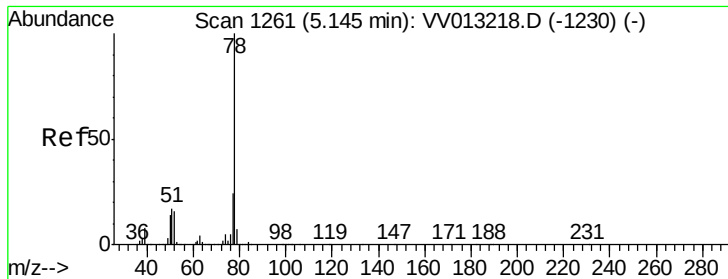
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 43      | 9.1   | 14.6  | 22.0# |
| 57      | 25.8  | 17.8  | 26.8  |



#27  
1,2-Dichloroethane  
Concen: 0.711 ug/L  
RT: 5.18 min Scan# 1272  
Delta R.T. -0.00 min  
Lab File: VV013220.D  
Acq: 18 Oct 2019 23:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 98      | 10.5  | 7.4   | 11.2  |





#33

Benzene

Concen: 0.061 ug/L

RT: 5.15 min Scan# 1262

Delta R.T. 0.00 min

Lab File: VV013220.D

Acq: 18 Oct 2019 23:36

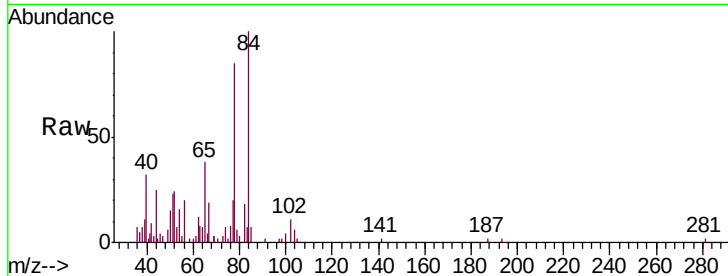
Instrument :

MSVOA\_V

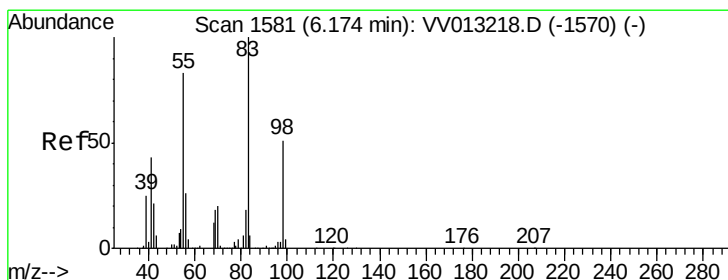
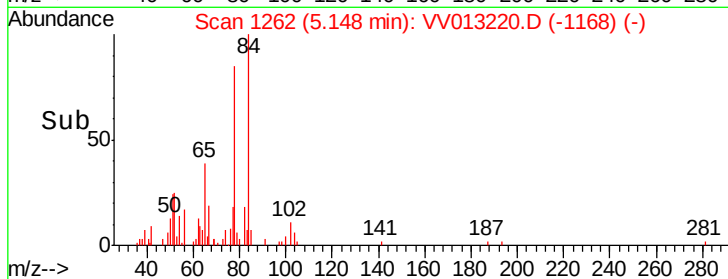
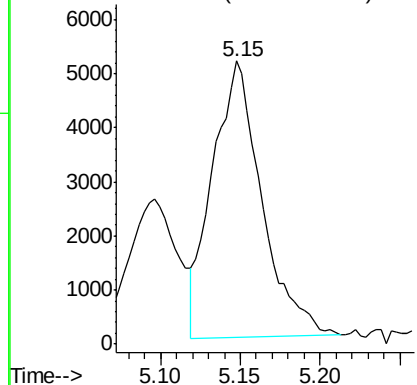
ClientSampled :

C0AA8

Tgt Ion: 78 Resp: 10852



Abundance Ion 78.10 (77.80 to 78.80): VV0



#35

Methylcyclohexane

Concen: 0.811 ug/L

RT: 6.12 min Scan# 1563

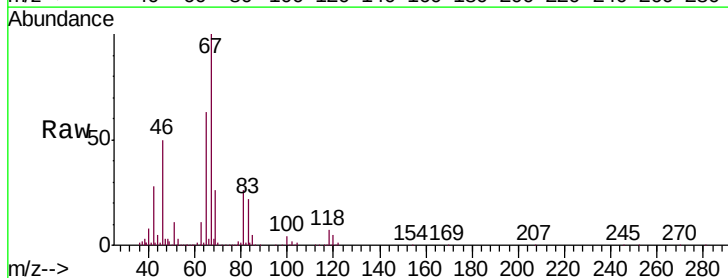
Delta R.T. -0.06 min

Lab File: VV013220.D

Acq: 18 Oct 2019 23:36

Tgt Ion: 83 Resp: 57277

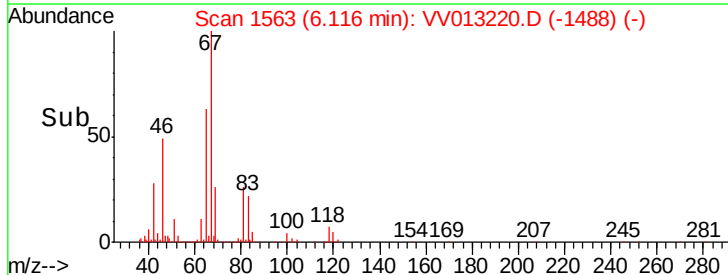
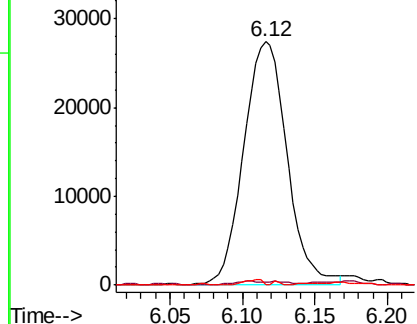
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 0.0   | 64.0  | 96.0# |
| 98  | 0.3   | 38.6  | 57.8# |

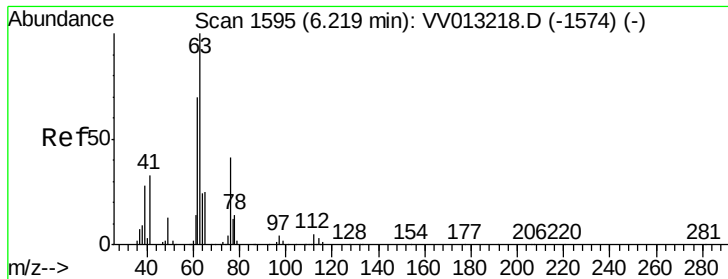


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

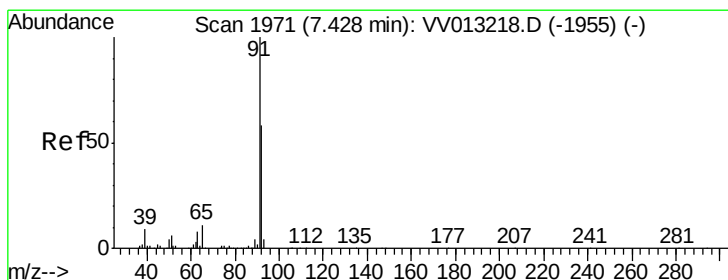
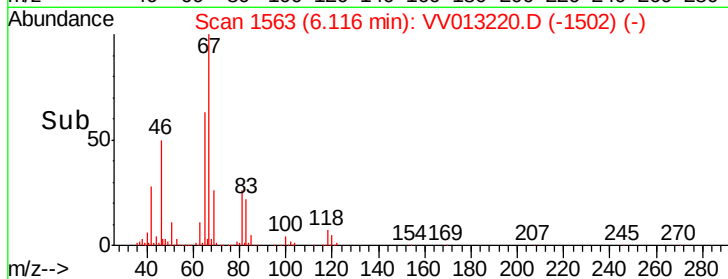
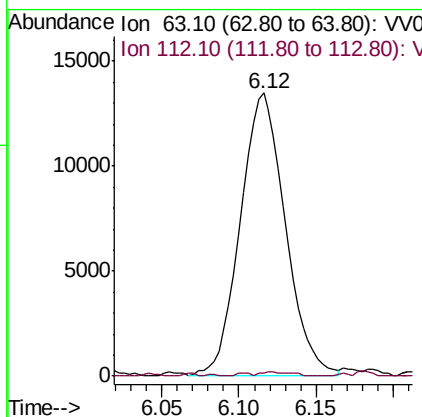
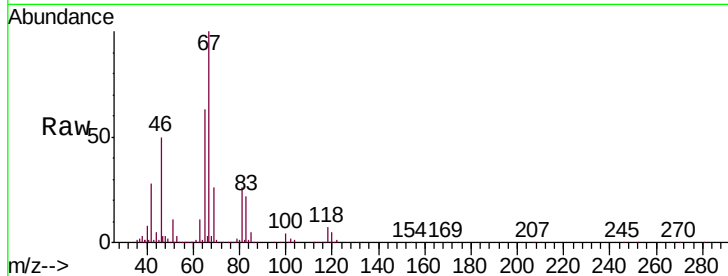




#37  
 1,2-Dichloropropane  
 Concen: 0.624 ug/L  
 RT: 6.12 min Scan# 1563  
 Delta R.T. -0.10 min  
 Lab File: VV013220.D  
 Acq: 18 Oct 2019 23:36

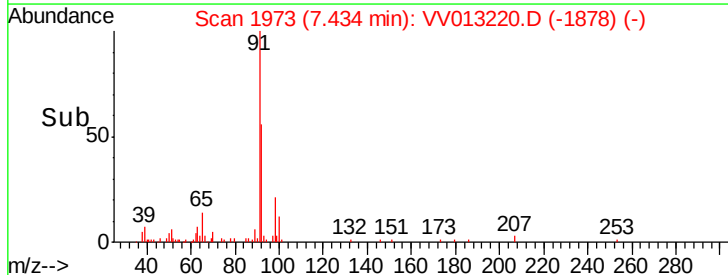
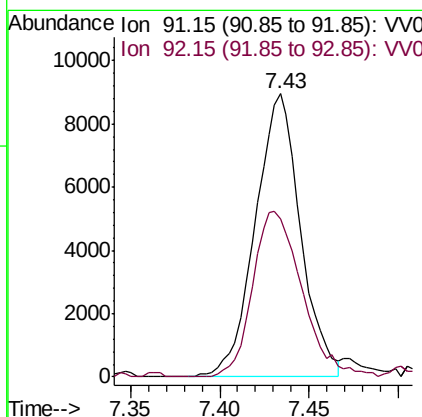
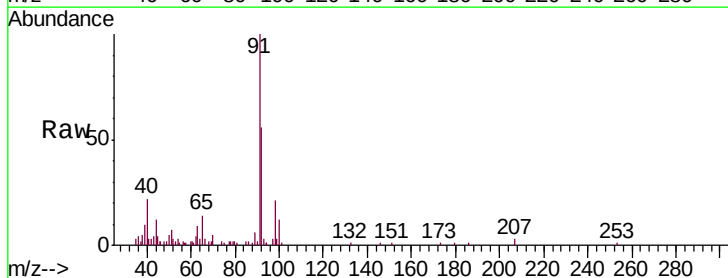
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0AA8

Tgt Ion: 63 Resp: 27326  
 Ion Ratio Lower Upper  
 63 100  
 112 0.7 3.8 5.8#

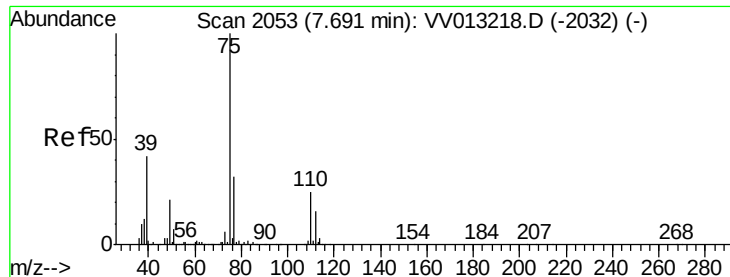


#42  
 Toluene  
 Concen: 0.087 ug/L  
 RT: 7.43 min Scan# 1973  
 Delta R.T. 0.01 min  
 Lab File: VV013220.D  
 Acq: 18 Oct 2019 23:36

Tgt Ion: 91 Resp: 15863  
 Ion Ratio Lower Upper  
 91 100  
 92 55.7 41.2 76.4







#44

trans-1,3-Dichloropropene

Concen: 0.091 ug/L

RT: 7.66 min Scan# 2044

Delta R.T. -0.03 min

Lab File: VV013220.D

Acq: 18 Oct 2019 23:36

Instrument :

MSVOA\_V

ClientSampleId :

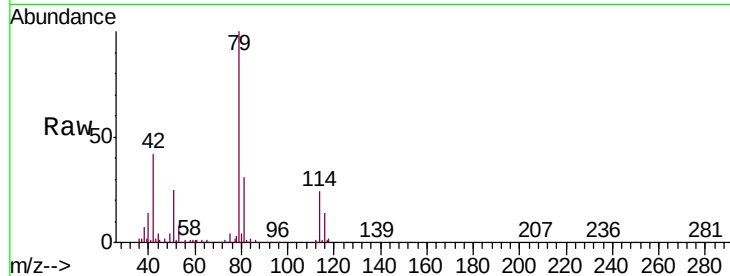
C0AA8

Tgt Ion: 75 Resp: 4116

Ion Ratio Lower Upper

75 100

77 44.0 21.8 40.4#



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.66

2000

1500

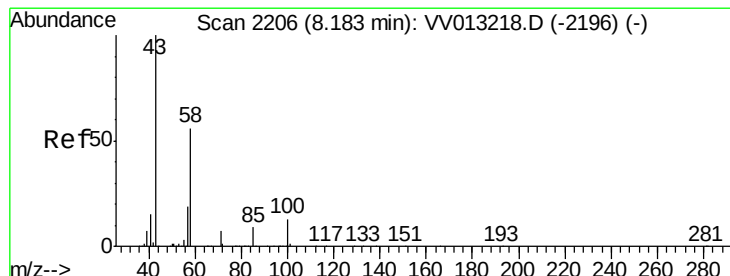
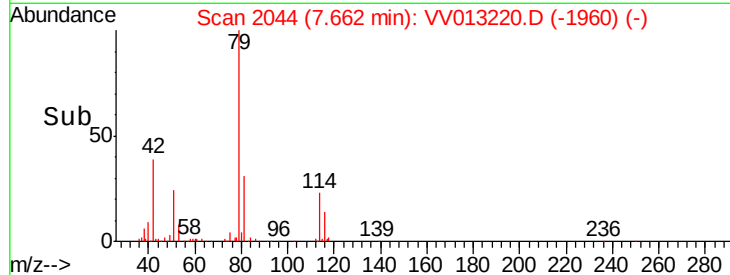
1000

500

0

7.60 7.65 7.70 7.75

Time-->



#48

2-Hexanone

Concen: 3.355 ug/L

RT: 8.13 min Scan# 2191

Delta R.T. -0.05 min

Lab File: VV013220.D

Acq: 18 Oct 2019 23:36

Tgt Ion: 43 Resp: 57350

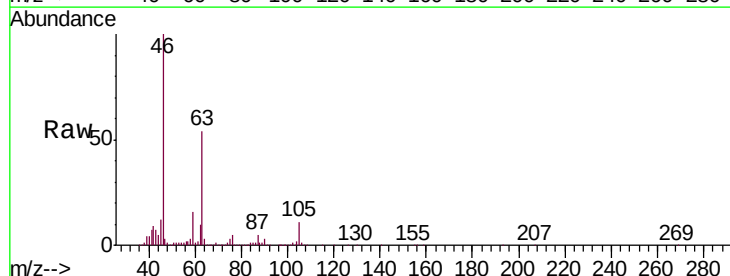
Ion Ratio Lower Upper

43 100

58 48.1 44.2 66.2

57 33.3 14.5 21.7#

100 4.0 9.5 14.3#



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 57.20 (56.90 to 57.90): VV0

Ion 100.15 (99.85 to 100.85): VV0

30000

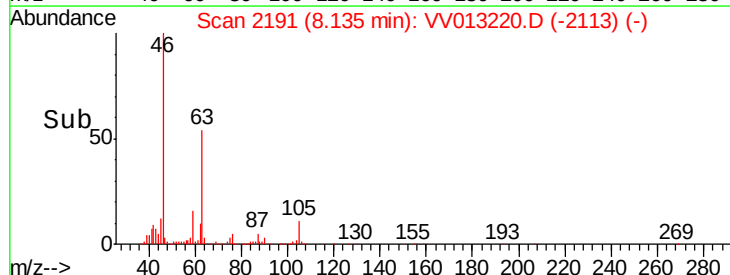
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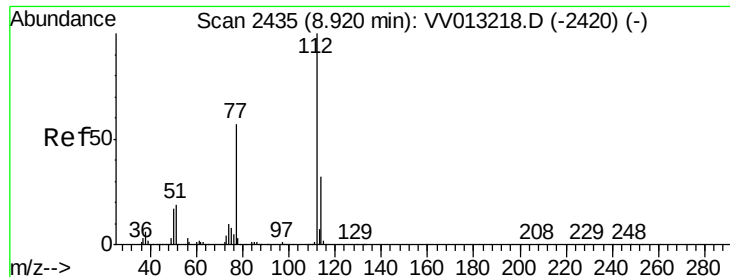
10000

0

8.10 8.20

Time-->





#51

Chlorobenzene

Concen: 0.107 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VV013220.D

Acq: 18 Oct 2019 23:36

Instrument :

MSVOA\_V

ClientSampleId :

C0AA8

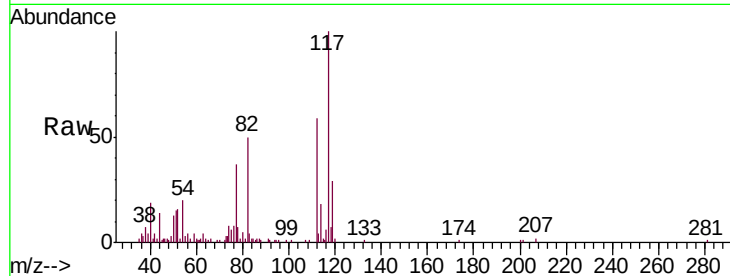
Tgt Ion:112 Resp: 12507

Ion Ratio Lower Upper

112 100

114 30.3 22.6 42.0

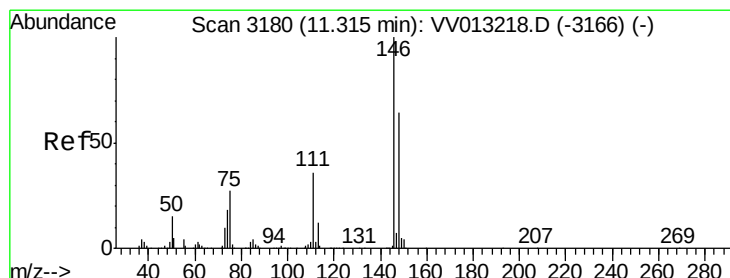
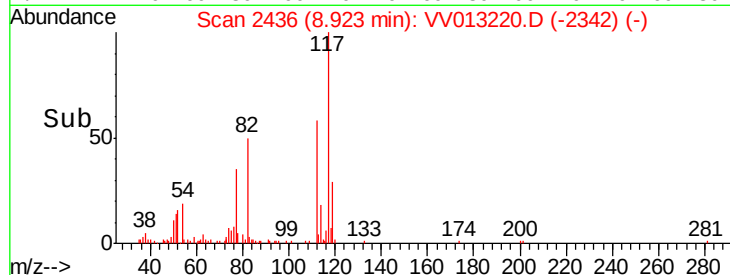
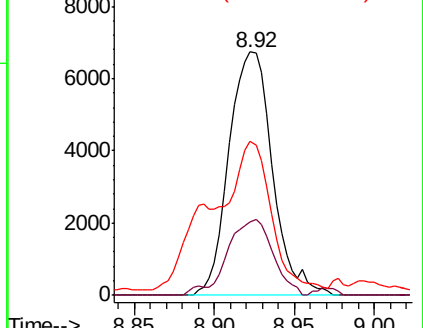
77 63.2 47.5 71.3



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): V



#63

1,4-Dichlorobenzene

Concen: 0.080 ug/L

RT: 11.31 min Scan# 3179

Delta R.T. -0.00 min

Lab File: VV013220.D

Acq: 18 Oct 2019 23:36

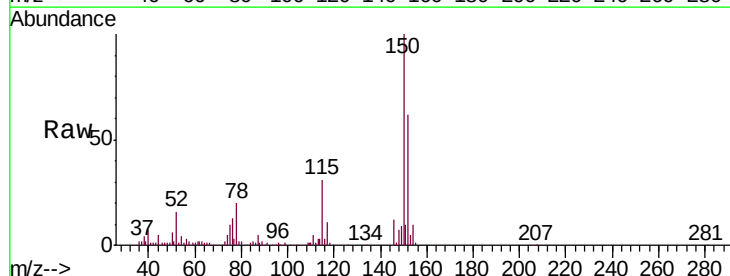
Tgt Ion:146 Resp: 6320

Ion Ratio Lower Upper

146 100

111 43.5 25.7 47.7

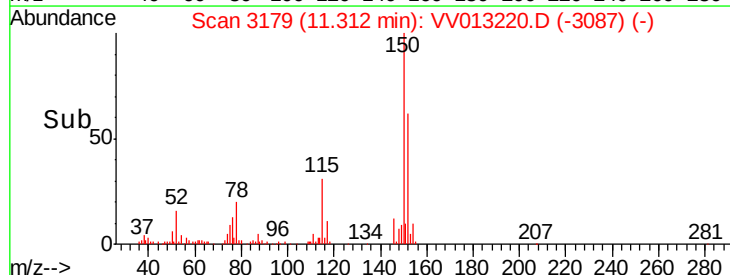
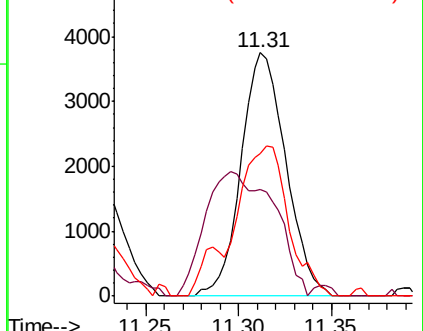
148 58.4 44.4 82.5

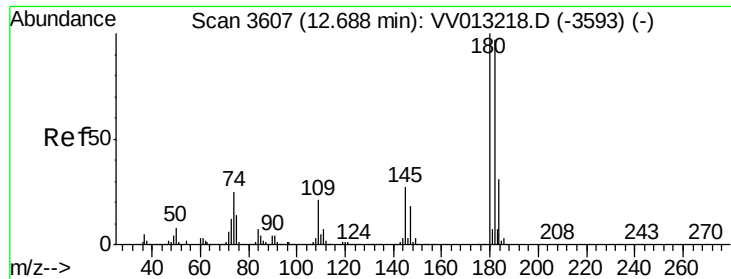


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

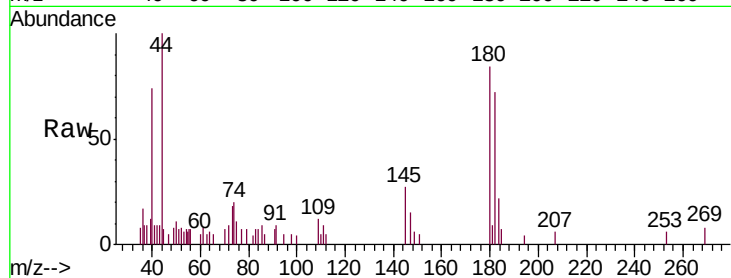




#67  
 1,3,5-Trichlorobenzene  
 Concen: 0.054 ug/L  
 RT: 12.69 min Scan# 3608  
 Delta R.T. 0.00 min  
 Lab File: VV013220.D  
 Acq: 18 Oct 2019 23:36

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0AA8

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 3158  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 91.6  | 75.8  | 113.6 |
| 184      | 29.9  | 24.2  | 36.4  |
| 145      | 23.7  | 22.1  | 33.1  |



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V

