

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U100419\  
 Data File : VU034933.D  
 Acq On : 04 Oct 2019 14:23  
 Operator : JC/SP  
 Sample : K5196-01  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0K00

Quant Time: Oct 05 01:42:40 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR093019WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Oct 05 00:29:19 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.87  | 114  | 203195   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 194540   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.46 | 152  | 90223    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 73517    | 5.11     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 102.20% |
| 7) Chloroethane-d5             | 1.68   | 69    | 62734    | 5.35     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 107.00% |
| 11) 1,1-Dichloroethene-d2      | 2.26   | 63    | 101712   | 4.12     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 82.40%  |
| 20) 2-Butanone-d5              | 4.17   | 46    | 182702   | 44.61    | ug/L | -0.02   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 89.22%  |
| 24) Chloroform-d               | 4.62   | 84    | 125292   | 5.15     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 103.00% |
| 26) 1,2-Dichloroethane-d4      | 5.29   | 65    | 70215    | 4.64     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 92.80%  |
| 32) Benzene-d6                 | 5.32   | 84    | 258573   | 5.39     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 107.80% |
| 36) 1,2-Dichloropropane-d6     | 6.31   | 67    | 85815    | 5.36     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 107.20% |
| 41) Toluene-d8                 | 7.54   | 98    | 238199   | 5.17     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 103.40% |
| 43) trans-1,3-Dichloropropene- | 7.83   | 79    | 30134    | 5.11     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 102.20% |
| 46) 2-Hexanone-d5              | 8.30   | 63    | 146390   | 50.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 100.66% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41  | 84    | 66639    | 5.22     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 104.40% |
| 64) 1,2-Dichlorobenzene-d4     | 11.84  | 152   | 84515    | 5.65     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 113.00% |

## Target Compounds

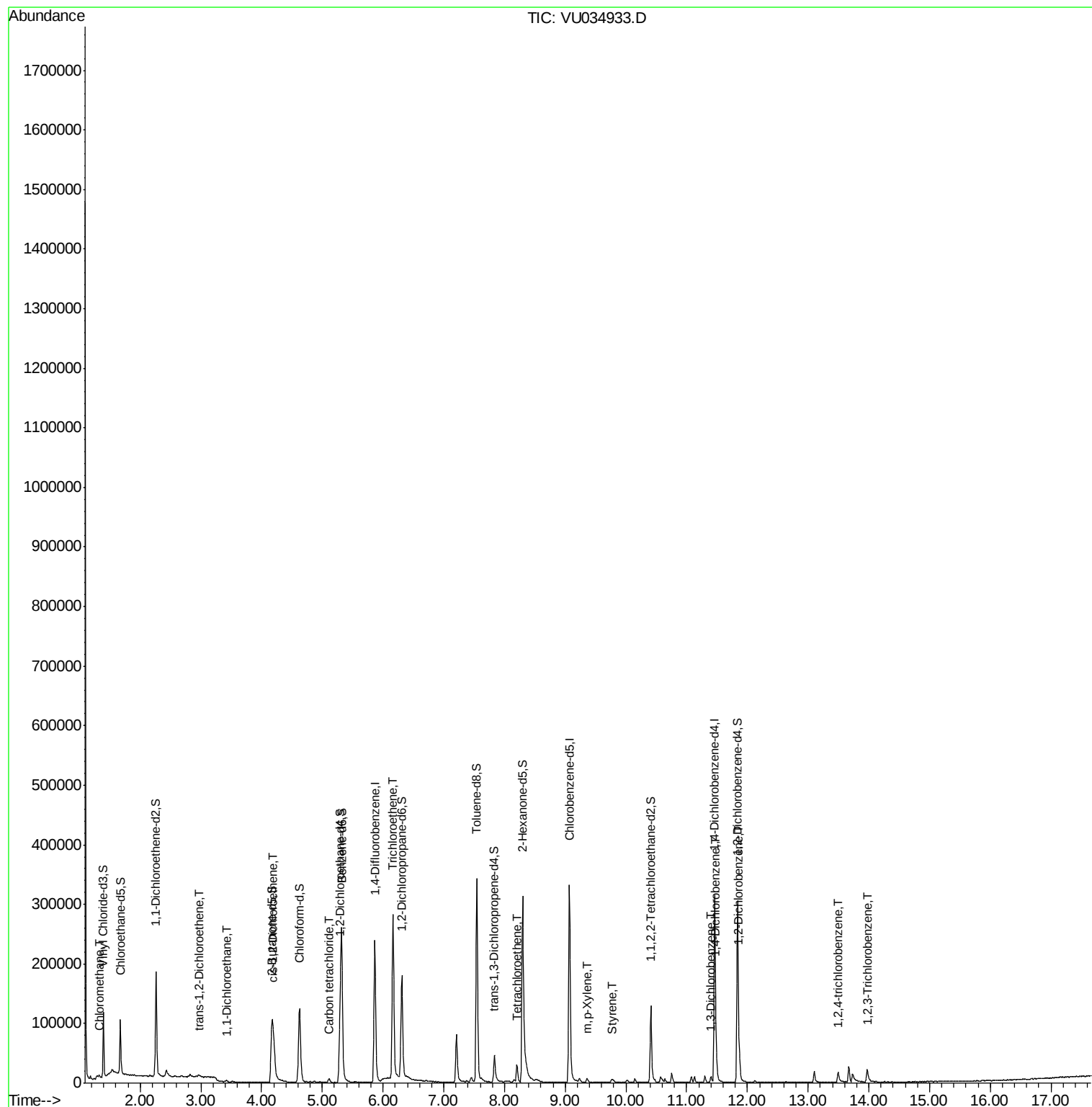
| Target Compounds             | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|------------------------------|-------|------|----------|-------|--------|--------|
| 3) Chloromethane             | 1.33  | 50   | 2903     | 0.296 | ug/L   | 92     |
| 18) trans-1,2-Dichloroethene | 2.96  | 96   | 1237     | 0.176 | ug/L # | 64     |
| 19) 1,1-Dichloroethane       | 3.42  | 63   | 3010     | 0.139 | ug/L # | 90     |
| 22) cis-1,2-Dichloroethene   | 4.20  | 96   | 26900    | 2.504 | ug/L   | 87     |
| 31) Carbon tetrachloride     | 5.11  | 117  | 3700     | 0.267 | ug/L   | 97     |
| 34) Trichloroethene          | 6.16  | 95   | 99157    | 9.592 | ug/L   | 94     |
| 47) Tetrachloroethene        | 8.21  | 164  | 6528     | 0.954 | ug/L   | 95     |
| 53) m,p-Xylene               | 9.37  | 106  | 2651     | 0.150 | ug/L   | 97     |
| 55) Styrene                  | 9.78  | 104  | 3079     | 0.097 | ug/L   | 96     |
| 62) 1,3-Dichlorobenzene      | 11.40 | 146  | 5326     | 0.229 | ug/L   | 92     |
| 63) 1,4-Dichlorobenzene      | 11.49 | 146  | 6206     | 0.259 | ug/L   | 88     |
| 65) 1,2-Dichlorobenzene      | 11.86 | 146  | 5611     | 0.235 | ug/L   | 93     |
| 68) 1,2,4-trichlorobenzene   | 13.49 | 180  | 8117     | 0.665 | ug/L   | 96     |
| 70) 1,2,3-Trichlorobenzene   | 13.97 | 180  | 10270    | 0.838 | ug/L   | 89     |

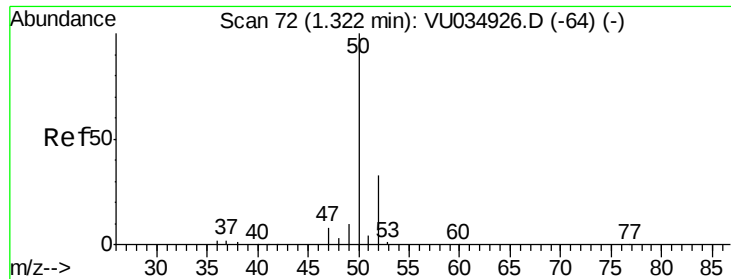
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU100419\  
Data File : VU034933.D  
Acq On : 04 Oct 2019 14:23  
Operator : JC/SP  
Sample : K5196-01  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0K00

Quant Time: Oct 05 01:42:40 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR093019WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Oct 05 00:29:19 2019  
Response via : Initial Calibration





#3

Chloromethane

Concen: 0.296 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034933.D

Acq: 04 Oct 2019 14:23

Instrument :

MSVOA\_U

ClientSampleId :

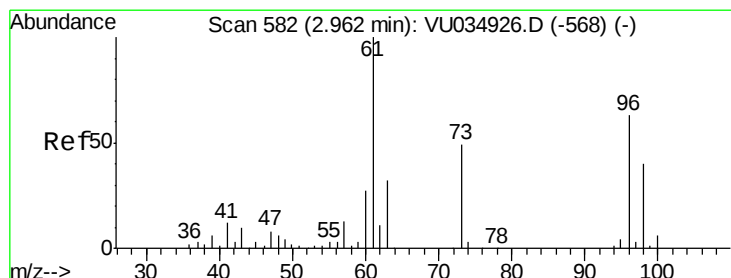
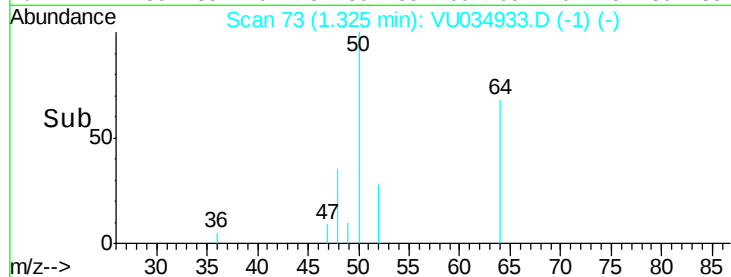
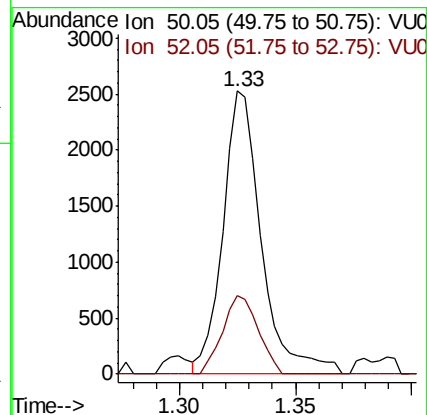
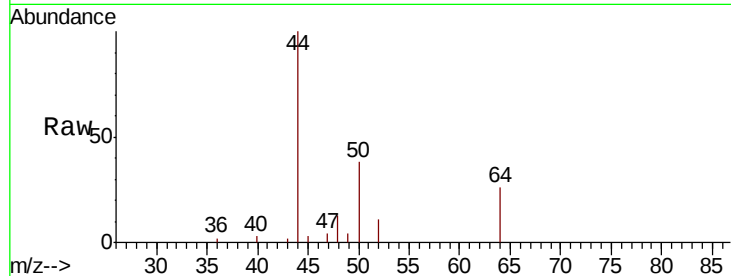
C0K00

Tot Ion: 50 Resp: 2903

Ion Ratio Lower Upper

50 100

52 27.8 22.7 42.1



#18

trans-1,2-Dichloroethene

Concen: 0.176 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU034933.D

Acq: 04 Oct 2019 14:23

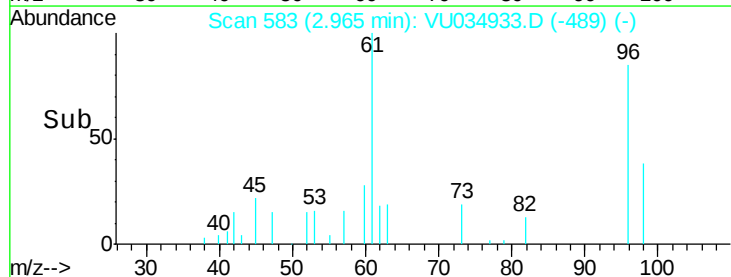
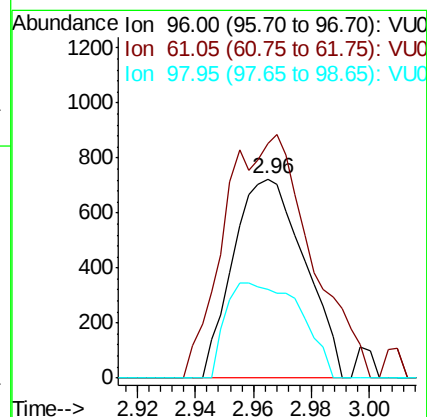
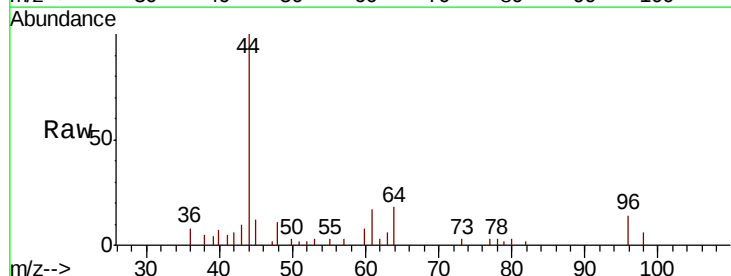
Tgt Ion: 96 Resp: 1237

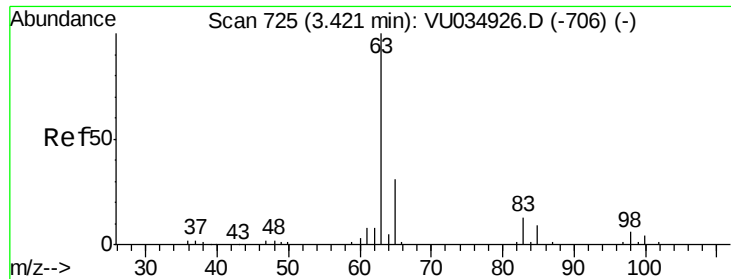
Ion Ratio Lower Upper

96 100

61 117.5 121.0 224.8#

98 44.5 44.7 83.1#

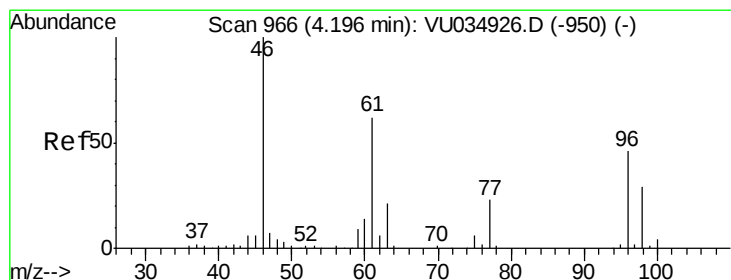
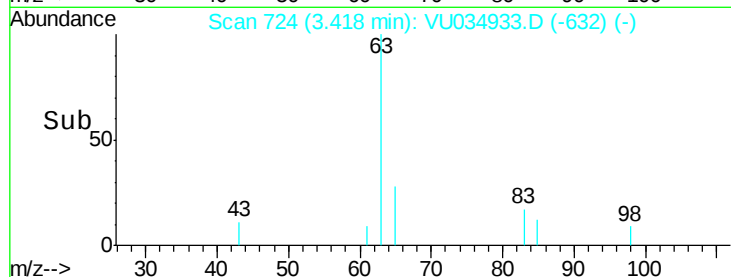
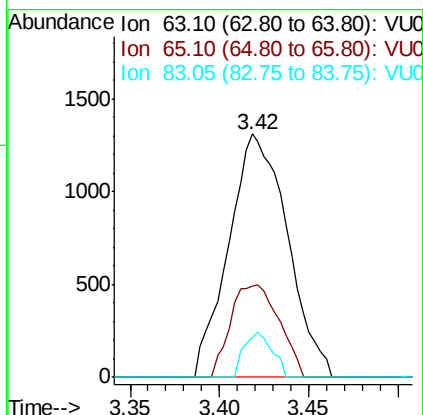
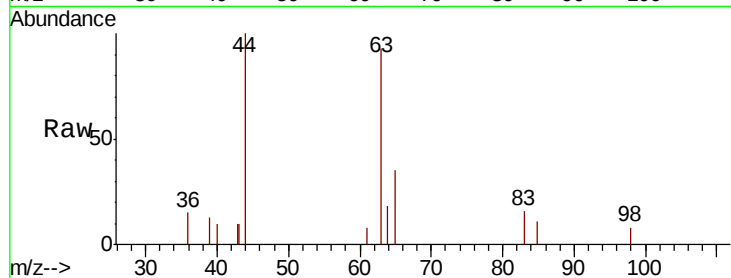




#19  
 1,1-Dichloroethane  
 Concen: 0.139 ug/L  
 RT: 3.42 min Scan# 724  
 Delta R.T. -0.00 min  
 Lab File: VU034933.D  
 Acq: 04 Oct 2019 14:23

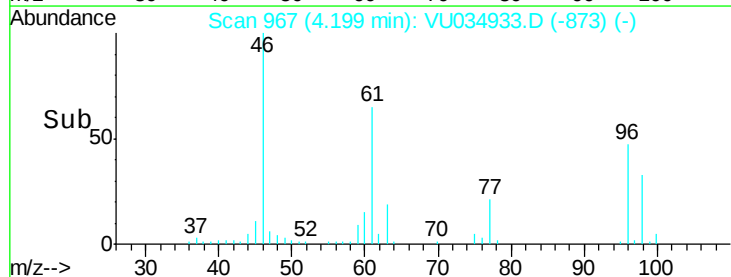
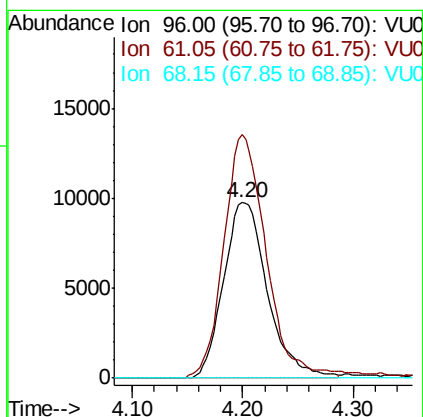
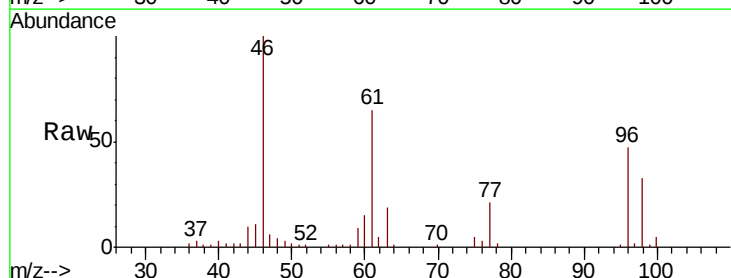
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0K00

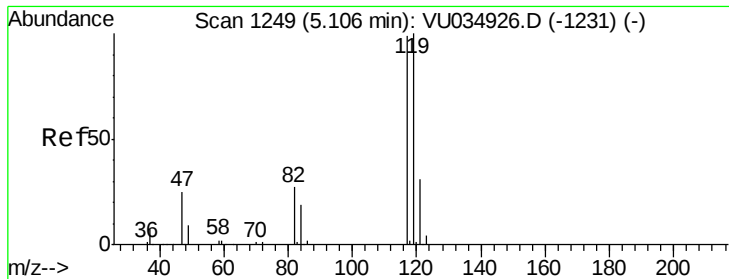
Tot Ion: 63 Resp: 3010  
 Ion Ratio Lower Upper  
 63 100  
 65 37.3 22.7 42.1  
 83 16.7 8.4 15.6#



#22  
 cis-1,2-Dichloroethene  
 Concen: 2.504 ug/L  
 RT: 4.20 min Scan# 967  
 Delta R.T. 0.00 min  
 Lab File: VU034933.D  
 Acq: 04 Oct 2019 14:23

Tgt Ion: 96 Resp: 26900  
 Ion Ratio Lower Upper  
 96 100  
 61 138.7 108.6 201.8  
 68 0.0 0.0 0.0

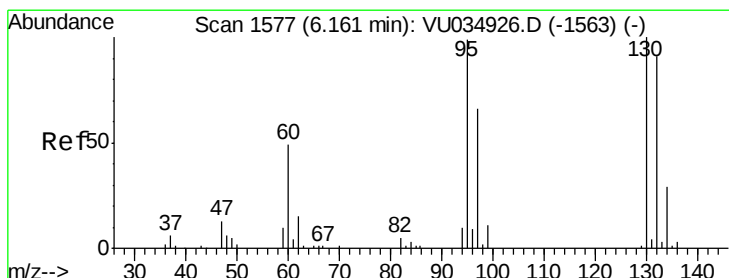
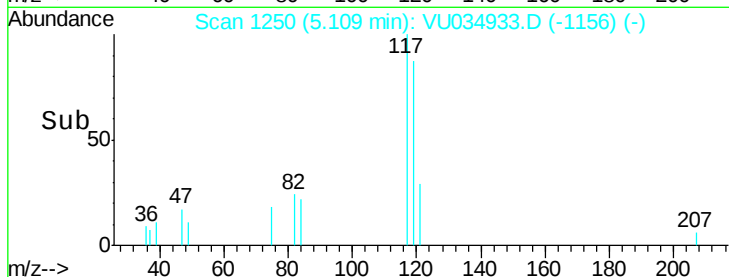
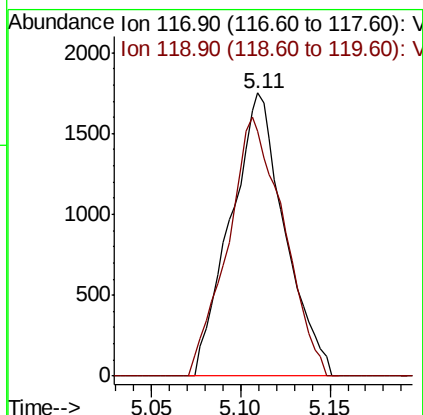
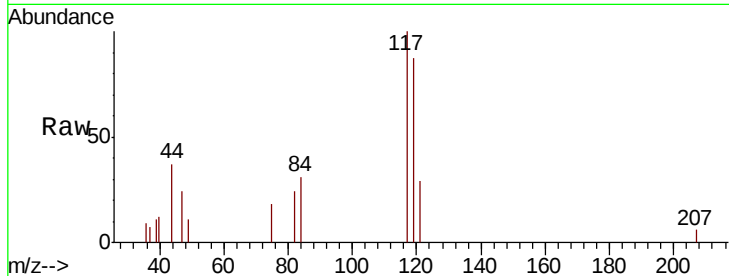




#31  
Carbon tetrachloride  
Concen: 0.267 ug/L  
RT: 5.11 min Scan# 1250  
Delta R.T. 0.00 min  
Lab File: VU034933.D  
Acq: 04 Oct 2019 14:23

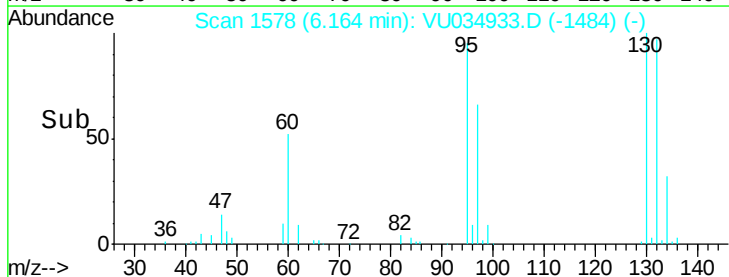
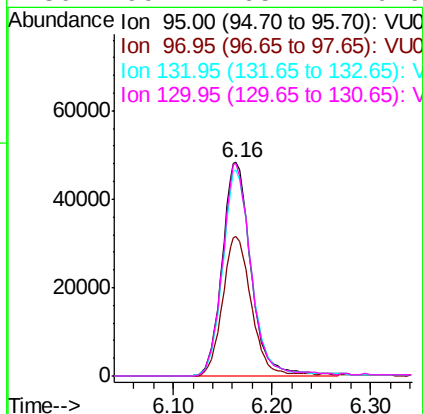
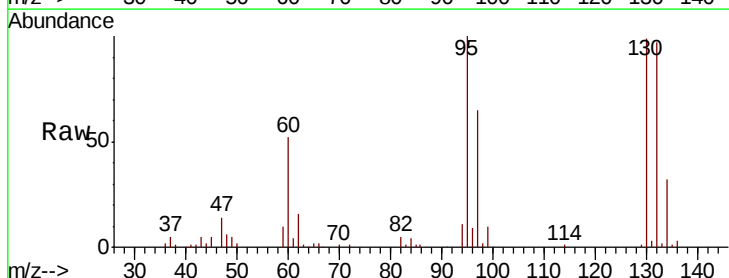
Instrument :  
MSVOA\_U  
ClientSampleId :  
C0K00

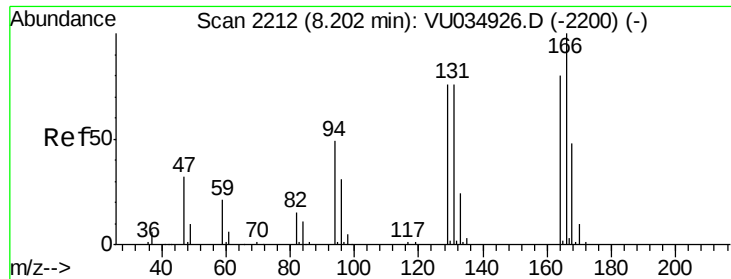
Tot Ion:117 Resp: 3700  
Ion Ratio Lower Upper  
117 100  
119 94.6 77.8 116.8



#34  
Trichloroethene  
Concen: 9.592 ug/L  
RT: 6.16 min Scan# 1578  
Delta R.T. 0.00 min  
Lab File: VU034933.D  
Acq: 04 Oct 2019 14:23

Tgt Ion: 95 Resp: 99157  
Ion Ratio Lower Upper  
95 100  
97 65.2 45.1 83.7  
132 96.6 61.2 113.8  
130 99.4 65.1 120.9

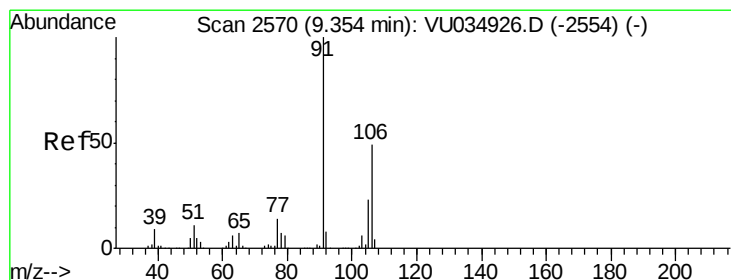
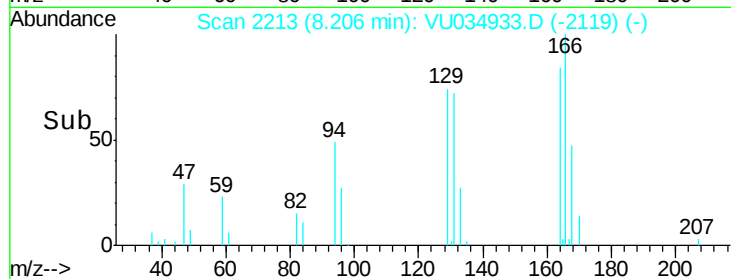
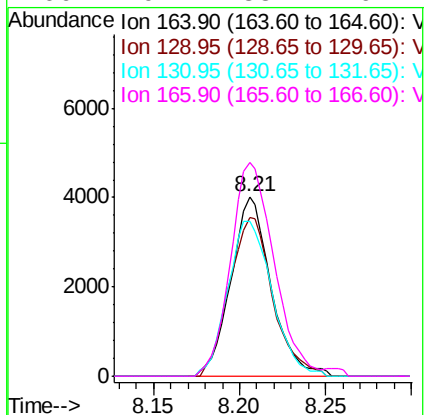
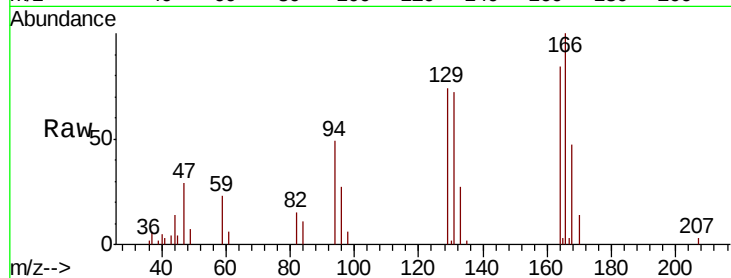




#47  
 Tetrachloroethene  
 Concen: 0.954 ug/L  
 RT: 8.21 min Scan# 2213  
 Delta R.T. 0.00 min  
 Lab File: VU034933.D  
 Acq: 04 Oct 2019 14:23

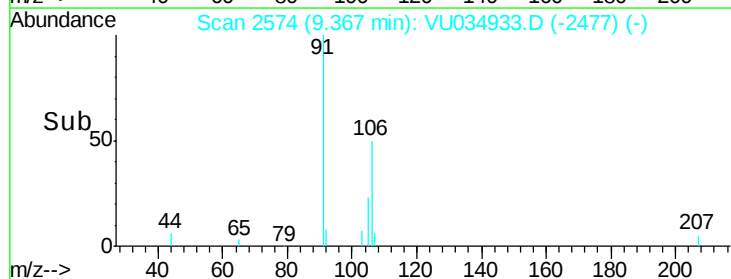
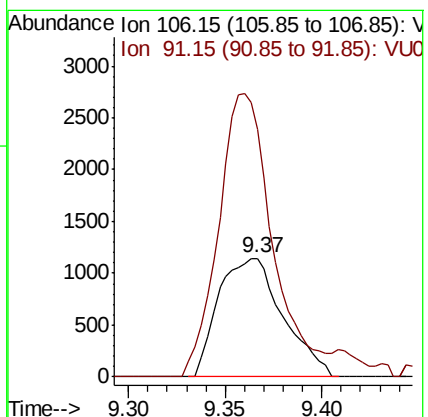
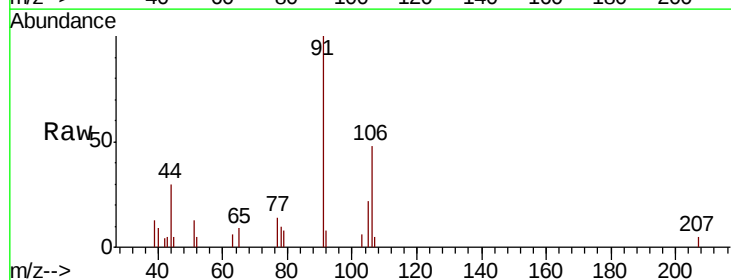
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0K00

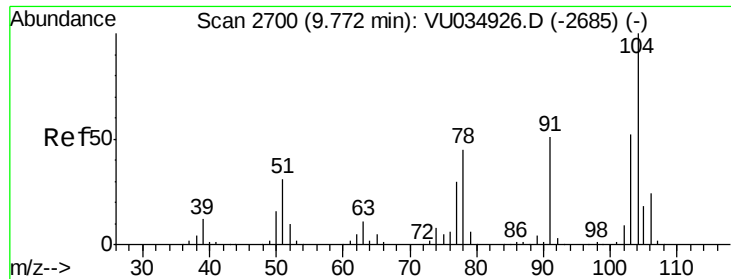
|             |       |       |       |
|-------------|-------|-------|-------|
| Tot Ion:164 | Resp: | 6528  |       |
| Ion         | Ratio | Lower | Upper |
| 164         | 100   |       |       |
| 129         | 88.3  | 66.3  | 123.1 |
| 131         | 86.2  | 62.2  | 115.4 |
| 166         | 119.1 | 88.4  | 164.2 |



#53  
 m,p-Xylene  
 Concen: 0.150 ug/L  
 RT: 9.37 min Scan# 2574  
 Delta R.T. 0.01 min  
 Lab File: VU034933.D  
 Acq: 04 Oct 2019 14:23

|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion:106 | Resp: | 2651  |
| Ion | Ratio   | Lower | Upper |
| 106 | 100     |       |       |
| 91  | 209.4   | 149.4 | 277.5 |





#55

Stvrene

Concen: 0.097 ug/L

RT: 9.78 min Scan# 2704

Delta R.T. 0.01 min

Lab File: VU034933.D

Acq: 04 Oct 2019 14:23

Instrument :

MSVOA\_U

ClientSampleId :

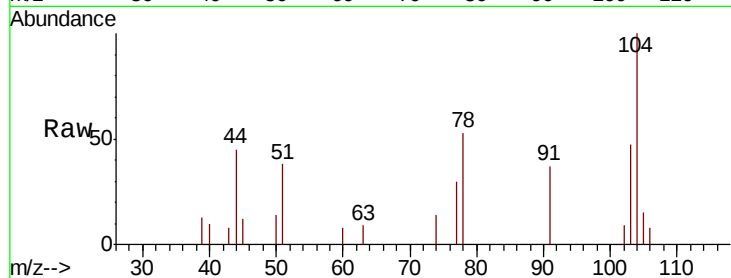
C0K00

Tot Ion:104 Resp: 3079

Ion Ratio Lower Upper

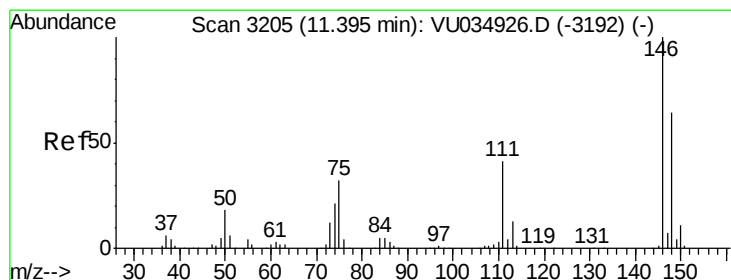
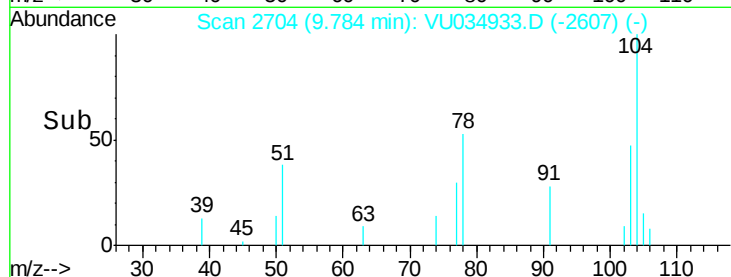
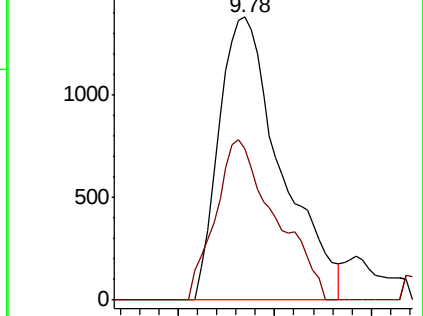
104 100

78 53.4 35.4 65.7



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0



#62

1,3-Dichlorobenzene

Concen: 0.229 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. 0.01 min

Lab File: VU034933.D

Acq: 04 Oct 2019 14:23

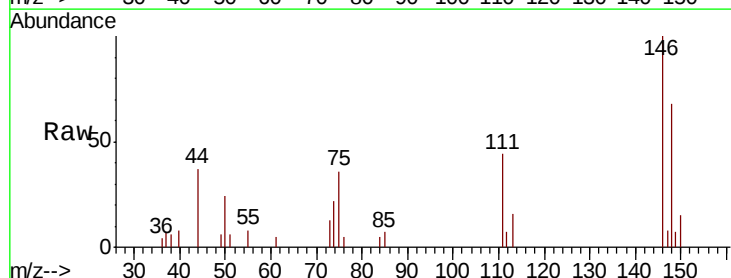
Tgt Ion:146 Resp: 5326

Ion Ratio Lower Upper

146 100

111 44.4 27.7 51.5

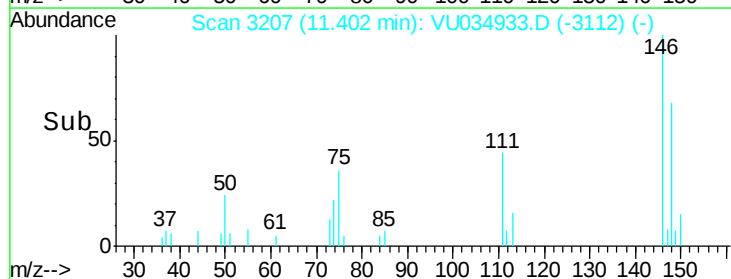
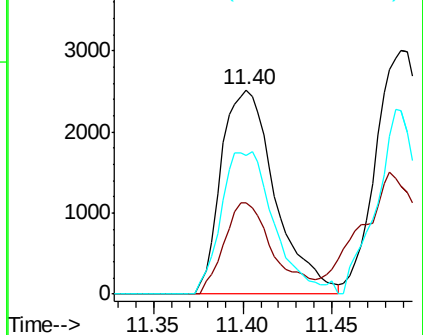
148 68.0 43.3 80.3

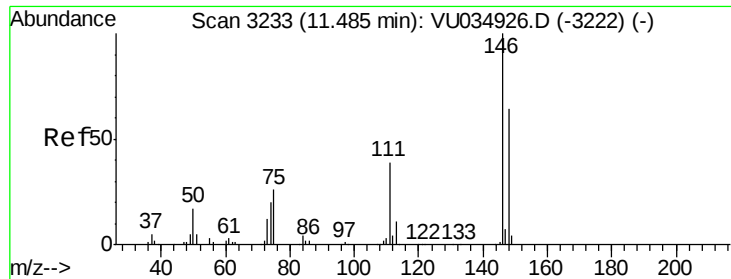


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

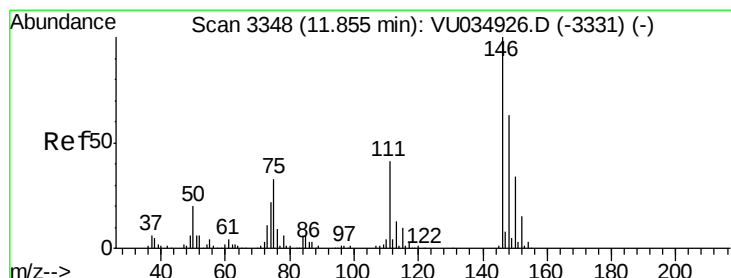
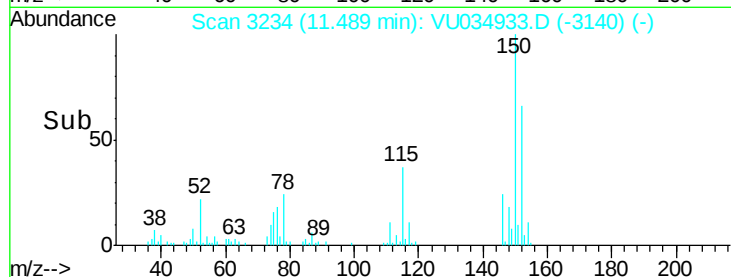
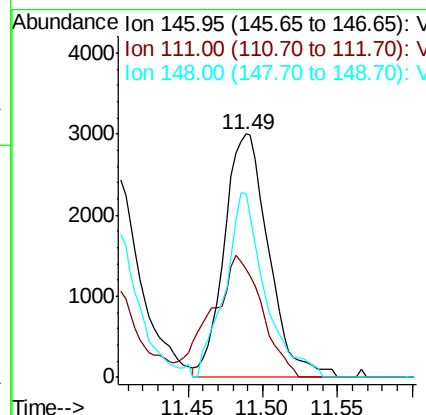
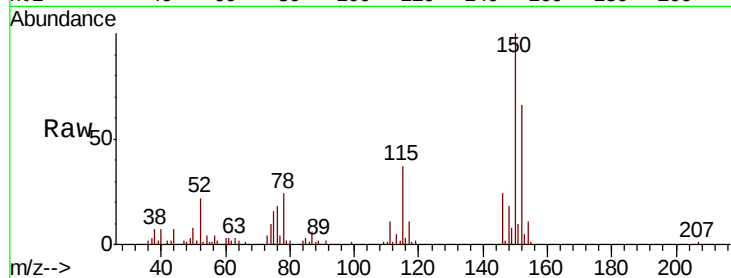




#63  
 1,4-Dichlorobenzene  
 Concen: 0.259 ug/L  
 RT: 11.49 min Scan# 3234  
 Delta R.T. 0.00 min  
 Lab File: VU034933.D  
 Acq: 04 Oct 2019 14:23

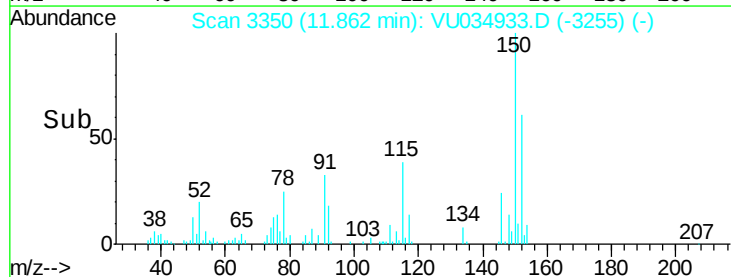
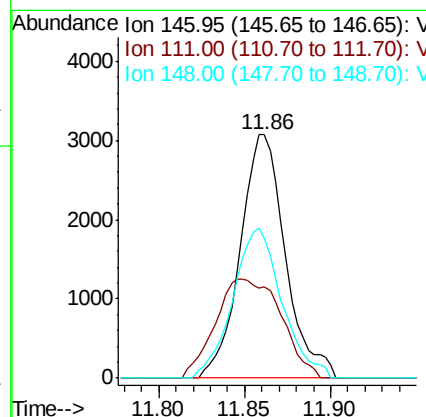
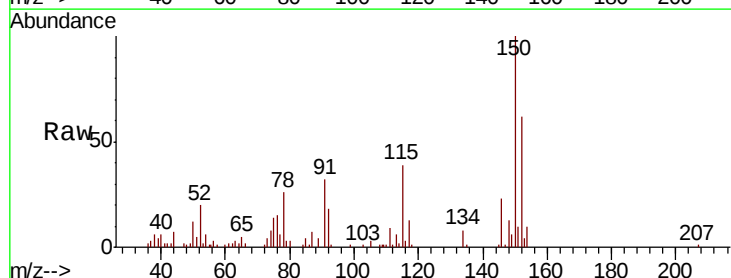
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0K00

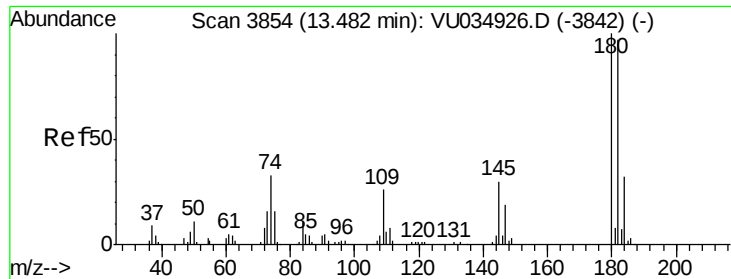
Tot Ion:146 Resp: 6206  
 Ion Ratio Lower Upper  
 146 100  
 111 44.4 27.4 50.8  
 148 75.2 44.6 82.8



#65  
 1,2-Dichlorobenzene  
 Concen: 0.235 ug/L  
 RT: 11.86 min Scan# 3350  
 Delta R.T. 0.01 min  
 Lab File: VU034933.D  
 Acq: 04 Oct 2019 14:23

Tgt Ion:146 Resp: 5611  
 Ion Ratio Lower Upper  
 146 100  
 111 37.7 33.4 50.2  
 148 57.4 50.0 75.0





#68

1,2,4-trichlorobenzene

Concen: 0.665 ug/L

RT: 13.49 min Scan# 3858

Delta R.T. 0.01 min

Lab File: VU034933.D

Acq: 04 Oct 2019 14:23

Instrument :

MSVOA\_U

ClientSampleId :

C0K00

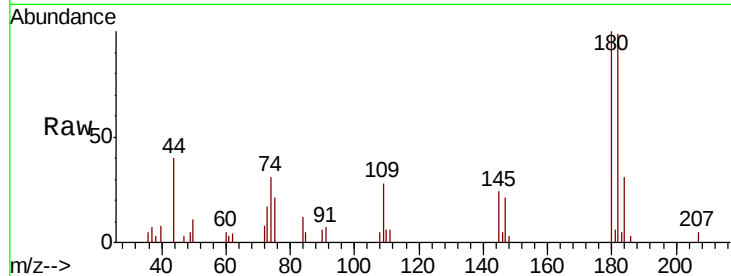
Tot Ion:180 Resp: 8117

Ion Ratio Lower Upper

180 100

182 94.6 74.3 111.5

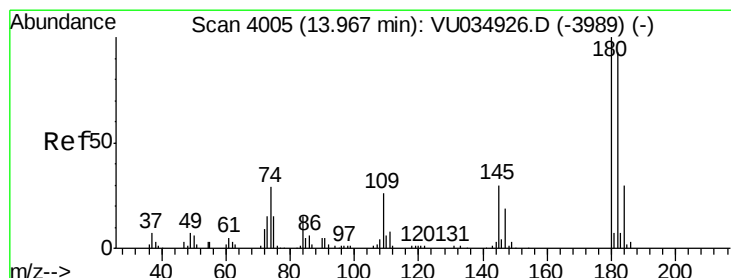
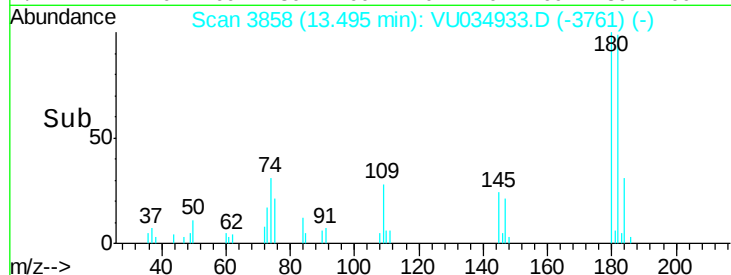
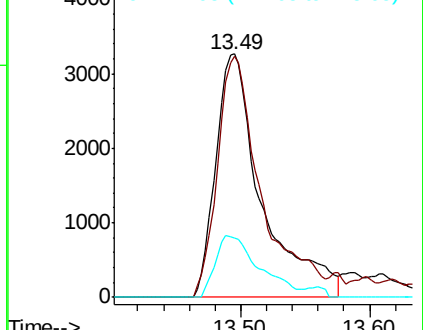
145 24.3 24.0 36.0



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V



#70

1,2,3-Trichlorobenzene

Concen: 0.838 ug/L

RT: 13.97 min Scan# 4007

Delta R.T. 0.01 min

Lab File: VU034933.D

Acq: 04 Oct 2019 14:23

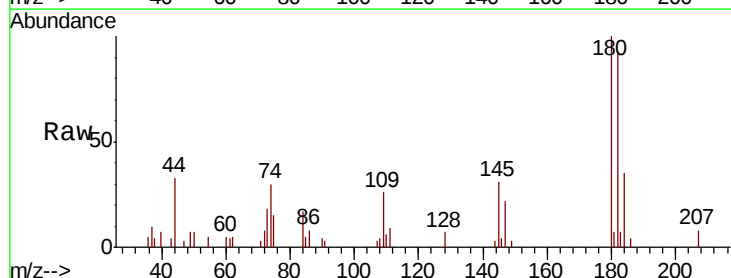
Tgt Ion:180 Resp: 10270

Ion Ratio Lower Upper

180 100

182 85.2 78.2 117.2

145 28.9 25.4 38.0



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

