

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081018\  
 Data File : VU026039.D  
 Acq On : 10 Aug 2018 13:29  
 Operator : MD/SY  
 Sample : J4401-02 5X  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 A4ZE0

Quant Time: Aug 11 01:34:58 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM080918WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Aug 11 00:58:27 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 298453   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 284679   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 135471   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 71998    | 33.00    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 66.00%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 65629    | 37.94    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 75.88%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 110917   | 26.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 53.52%# |
| 21) 2-Butanone-d5              | 4.18    | 46    | 162094   | 89.15    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 89.15%  |
| 24) Chloroform-d               | 4.65    | 84    | 191663   | 41.43    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 82.86%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 135236   | 43.28    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 86.56%  |
| 32) Benzene-d6                 | 5.35    | 84    | 360965   | 40.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 81.66%  |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 120681   | 42.19    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 84.38%  |
| 41) Toluene-d8                 | 7.57    | 98    | 325566   | 38.49    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 76.98%# |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 58215    | 40.40    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 80.80%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 113222   | 87.15    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 87.15%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44   | 84    | 178225   | 42.61    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 85.22%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 145833   | 43.67    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 87.34%  |

## Target Compounds

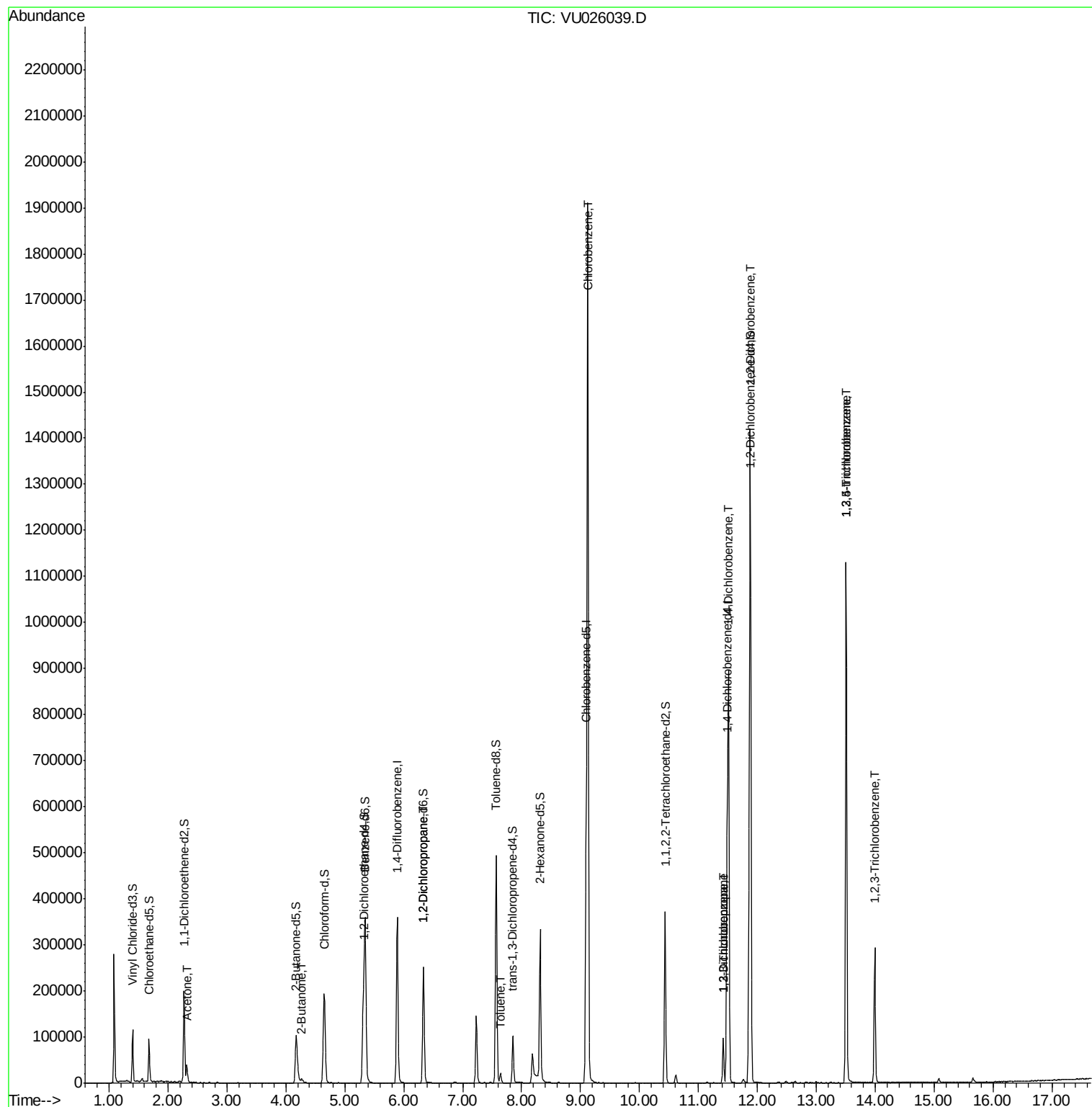
| Target Compounds           | R.T.  | QIon | Response | Conc    | Units  | Ovalue |
|----------------------------|-------|------|----------|---------|--------|--------|
| 13) Acetone                | 2.32  | 43   | 37469    | 33.173  | ug/L   | 98     |
| 22) 2-Butanone             | 4.27  | 43   | 11940    | 7.306   | ug/L   | 97     |
| 37) 1,2-Dichloropropane    | 6.33  | 63   | 13860    | 6.247   | ug/L # | 88     |
| 42) Toluene                | 7.64  | 91   | 14675    | 1.705   | ug/L   | 97     |
| 51) Chlorobenzene          | 9.12  | 112  | 1010605  | 174.154 | ug/L   | 99     |
| 59) 1,2,3-Trichloropropane | 11.42 | 75   | 11637    | 4.067   | ug/L # | 44     |
| 62) 1,3-Dichlorobenzene    | 11.42 | 146  | 41336    | 9.801   | ug/L   | 98     |
| 63) 1,4-Dichlorobenzene    | 11.51 | 146  | 341614   | 77.268  | ug/L   | 98     |
| 65) 1,2-Dichlorobenzene    | 11.88 | 146  | 532124   | 118.535 | ug/L   | 100    |
| 67) 1,3,5-Trichlorobenzene | 13.51 | 180  | 346450   | 109.912 | ug/L   | 99     |
| 68) 1,2,4-trichlorobenzene | 13.51 | 180  | 346450   | 129.974 | ug/L   | 100    |
| 70) 1,2,3-Trichlorobenzene | 13.99 | 180  | 91851    | 32.061  | ug/L   | 98     |

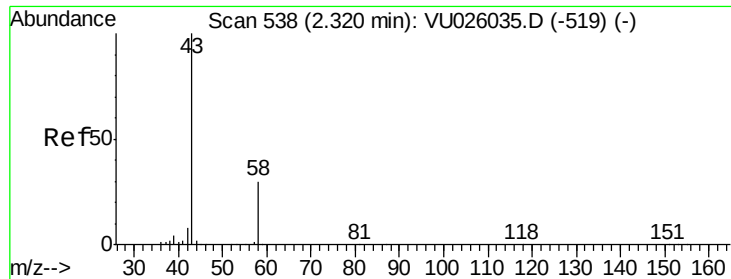
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU081018\  
Data File : VU026039.D  
Acq On : 10 Aug 2018 13:29  
Operator : MD/SY  
Sample : J4401-02 5X  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
A4ZE0

Quant Time: Aug 11 01:34:58 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM080918WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Aug 11 00:58:27 2018  
Response via : Initial Calibration





#13

Acetone

Concen: 33.173 ug/L

RT: 2.32 min Scan# 538

Delta R.T. 0.00 min

Lab File: VU026039.D

Acq: 10 Aug 2018 13:29

Instrument :

MSVOA\_U

ClientSampled :

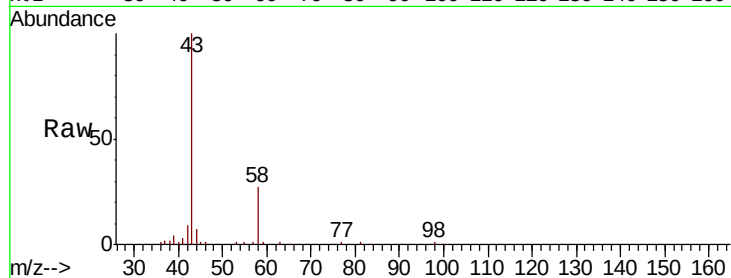
A4ZE0

Tot Ion: 43 Resp: 37469

Ion Ratio Lower Upper

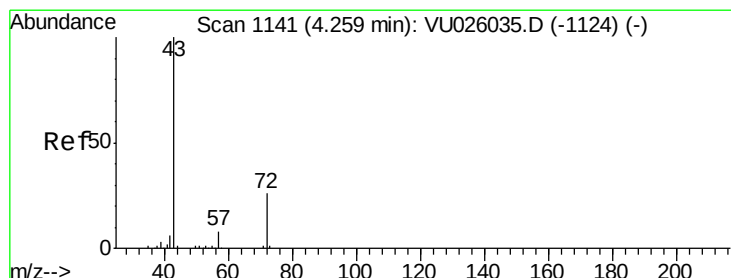
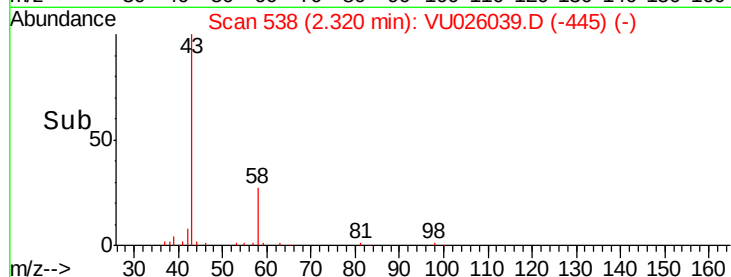
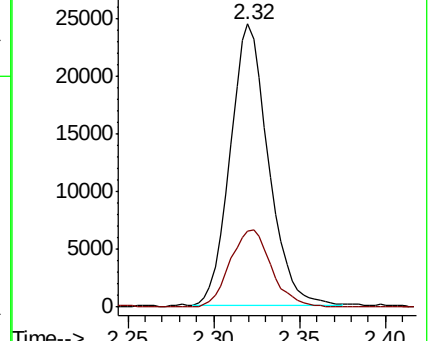
43 100

58 29.8 0.0 61.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#22

2-Butanone

Concen: 7.306 ug/L

RT: 4.27 min Scan# 1143

Delta R.T. 0.01 min

Lab File: VU026039.D

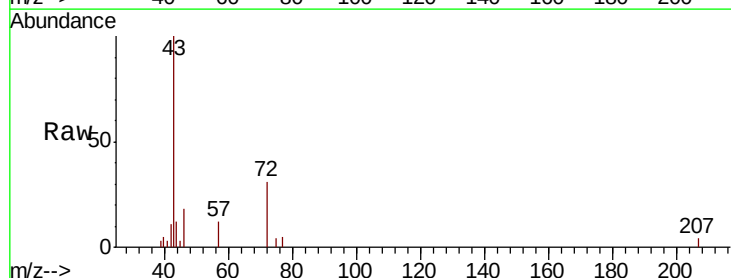
Acq: 10 Aug 2018 13:29

Tgt Ion: 43 Resp: 11940

Ion Ratio Lower Upper

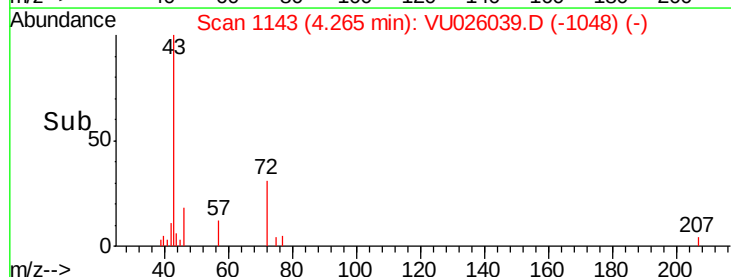
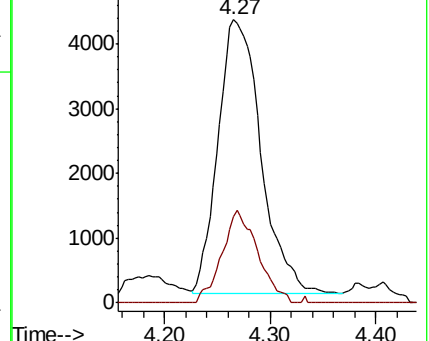
43 100

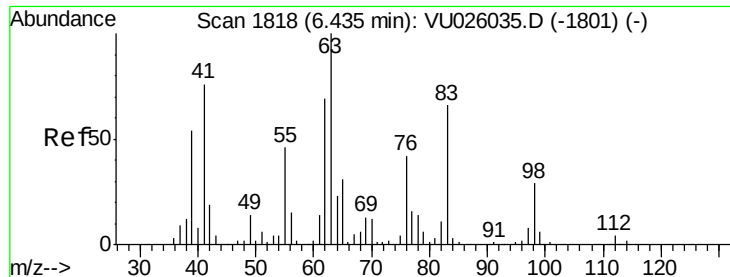
72 28.3 13.5 40.5



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

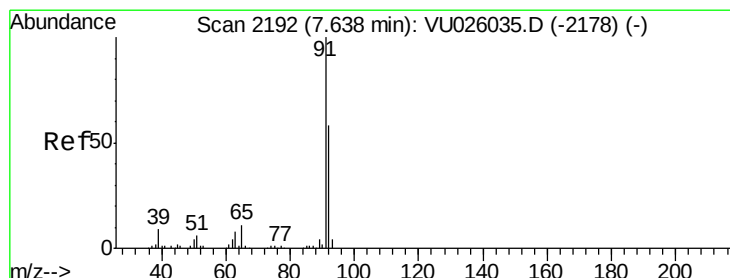
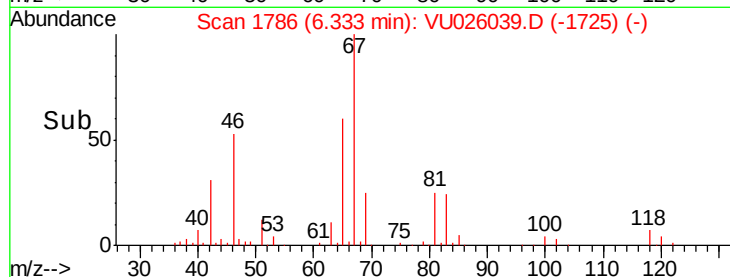
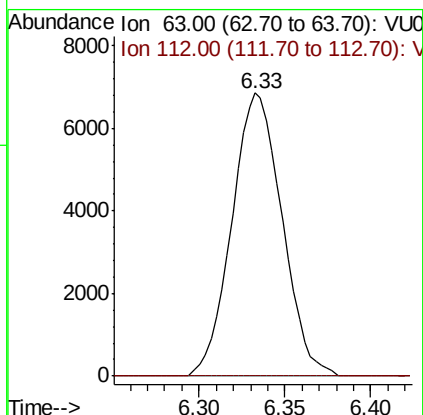
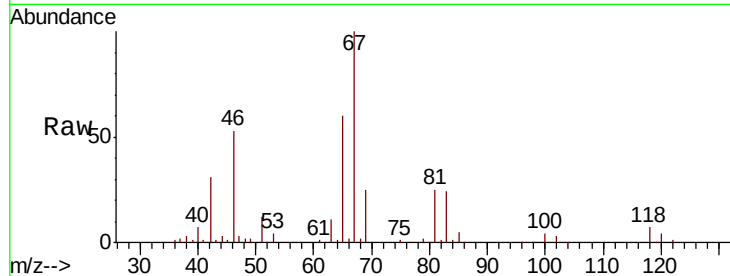




#37  
 1,2-Dichloropropane  
 Concen: 6.247 ug/L  
 RT: 6.33 min Scan# 1786  
 Delta R.T. -0.10 min  
 Lab File: VU026039.D  
 Acq: 10 Aug 2018 13:29

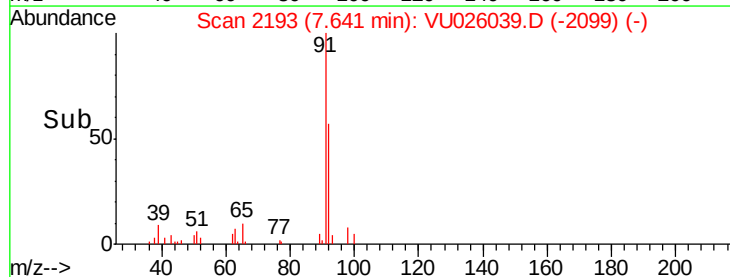
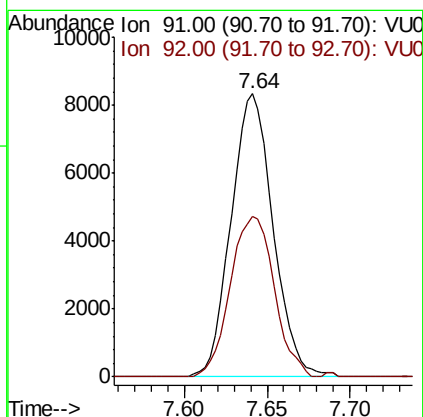
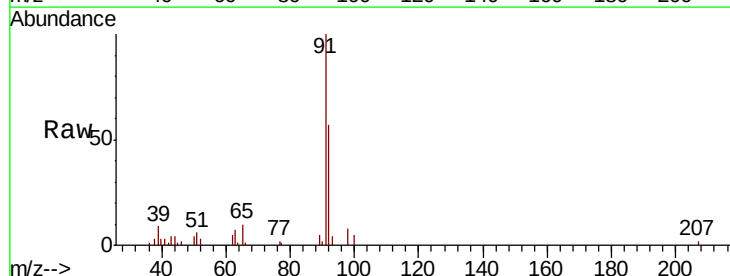
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 A4ZE0

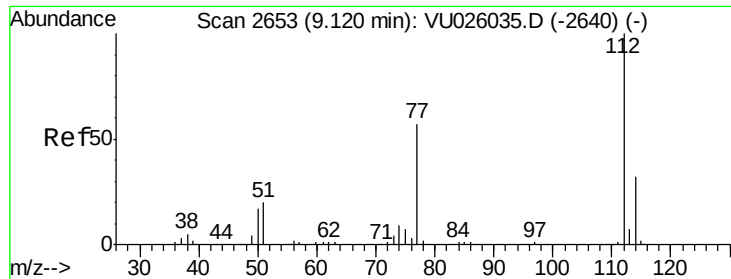
Tot Ion: 63 Resp: 13860  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.2 4.8#



#42  
 Toluene  
 Concen: 1.705 ug/L  
 RT: 7.64 min Scan# 2193  
 Delta R.T. 0.00 min  
 Lab File: VU026039.D  
 Acq: 10 Aug 2018 13:29

Tgt Ion: 91 Resp: 14675  
 Ion Ratio Lower Upper  
 91 100  
 92 56.6 41.0 76.2

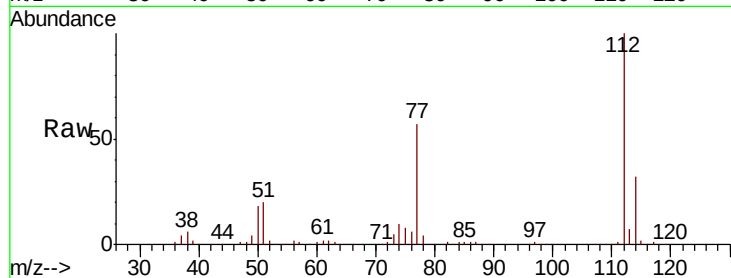




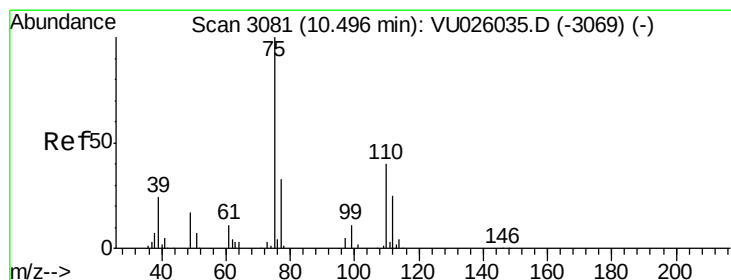
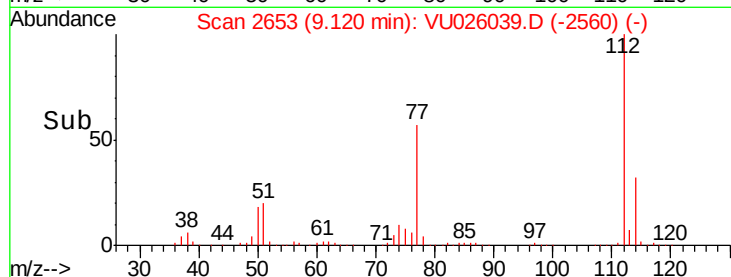
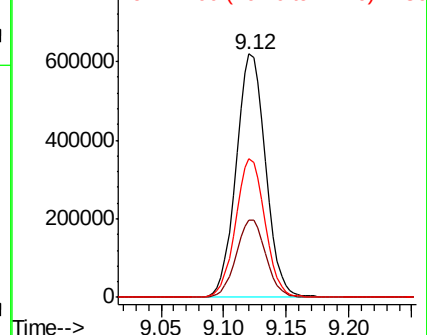
#51  
Chlorobenzene  
Concen: 174.154 ug/L  
RT: 9.12 min Scan# 2653  
Delta R.T. 0.00 min  
Lab File: VU026039.D  
Acq: 10 Aug 2018 13:29

Instrument :  
MSVOA\_U  
ClientSampleId :  
A4ZE0

Tot Ion:112 Resp: 1010605  
Ion Ratio Lower Upper  
112 100  
114 31.8 22.7 42.3  
77 56.8 45.2 67.8

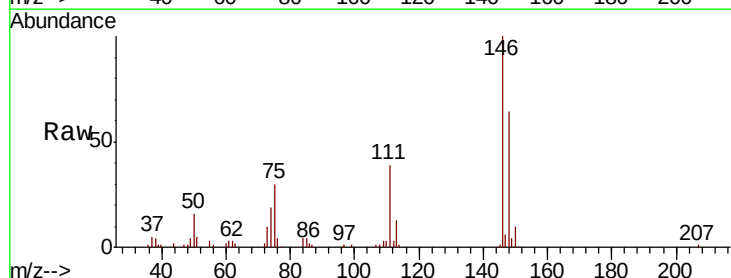


Abundance Ion 112.00 (111.70 to 112.70): V  
Ion 114.00 (113.70 to 114.70): V  
Ion 77.00 (76.70 to 77.70): VU

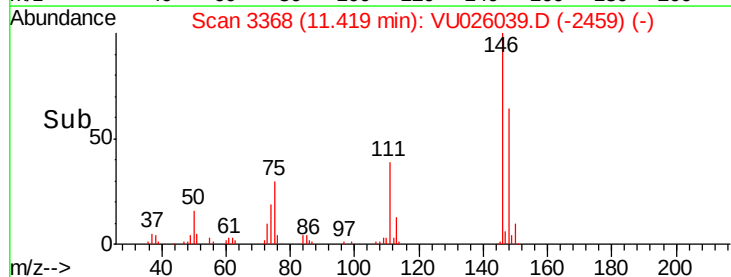
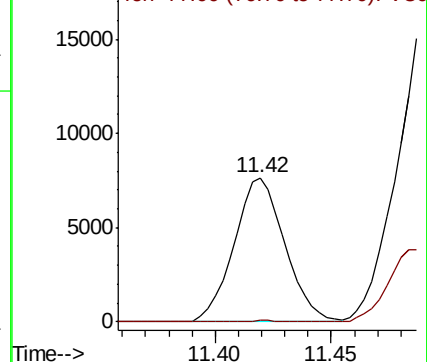


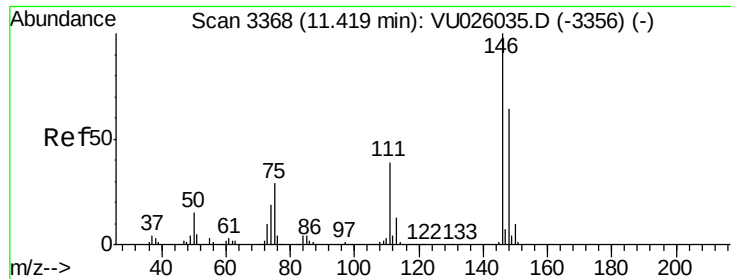
#59  
1,2,3-Trichloropropane  
Concen: 4.067 ug/L  
RT: 11.42 min Scan# 3368  
Delta R.T. 0.92 min  
Lab File: VU026039.D  
Acq: 10 Aug 2018 13:29

Tgt Ion: 75 Resp: 11637  
Ion Ratio Lower Upper  
75 100  
77 0.4 25.3 37.9#



Abundance Ion 75.00 (74.70 to 75.70): VU  
Ion 77.00 (76.70 to 77.70): VU





#62

1,3-Dichlorobenzene

Concen: 9.801 ug/L

RT: 11.42 min Scan# 3368

Delta R.T. 0.00 min

Lab File: VU026039.D

Acq: 10 Aug 2018 13:29

Instrument :

MSVOA\_U

ClientSampleId :

A4ZE0

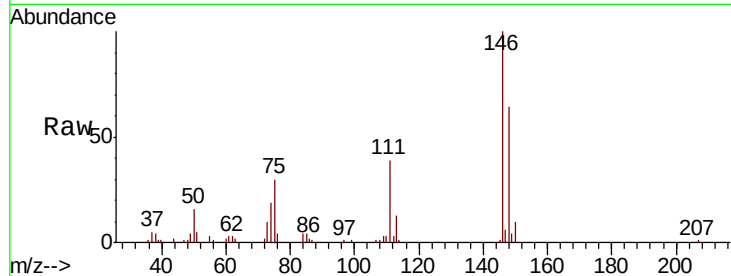
Tot Ion:146 Resp: 41336

Ion Ratio Lower Upper

146 100

111 39.3 27.9 51.9

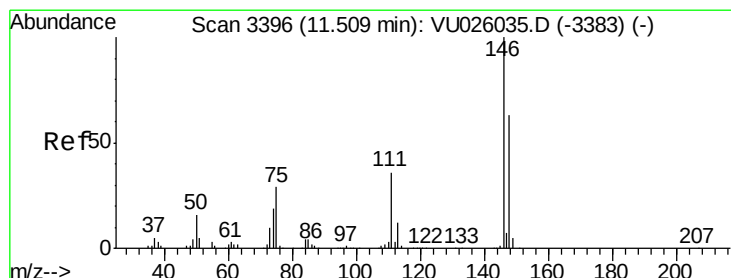
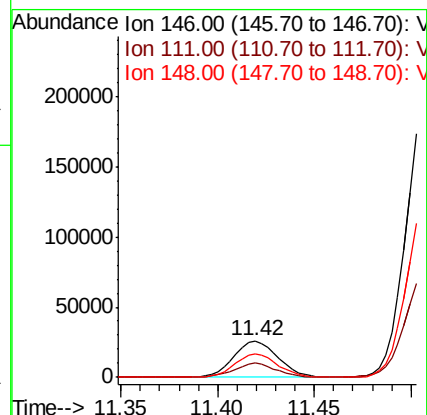
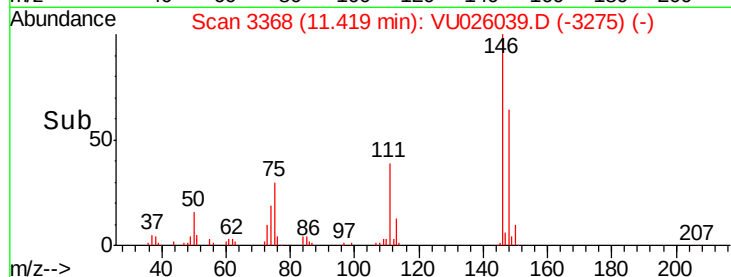
148 63.9 46.0 85.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 77.268 ug/L

RT: 11.51 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VU026039.D

Acq: 10 Aug 2018 13:29

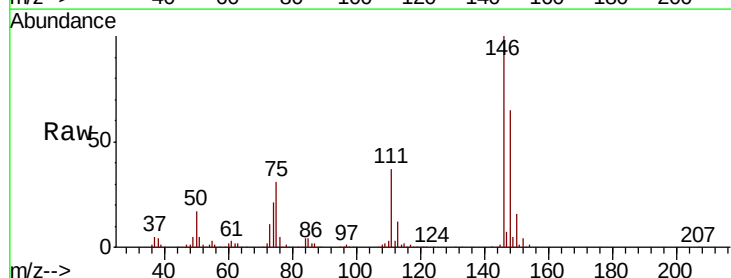
Tgt Ion:146 Resp: 341614

Ion Ratio Lower Upper

146 100

111 37.4 26.4 49.0

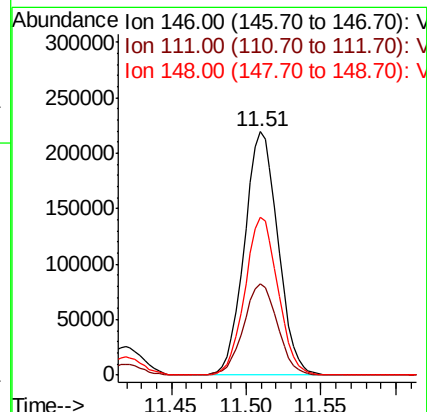
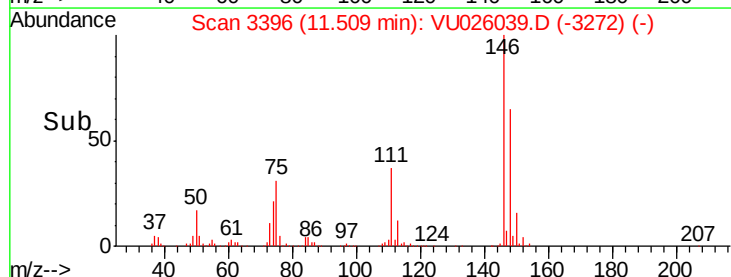
148 65.1 43.8 81.4

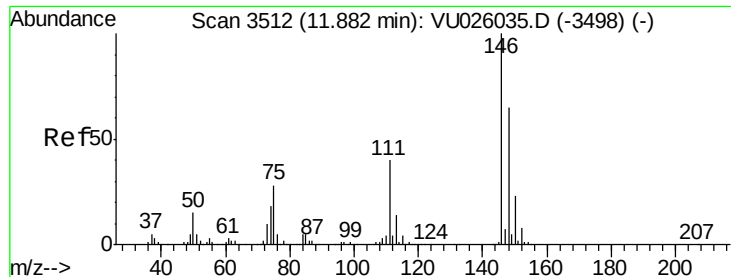


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

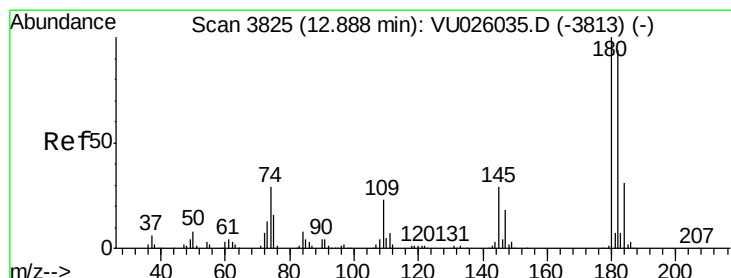
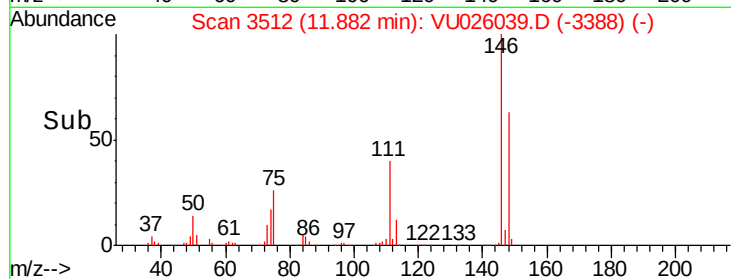
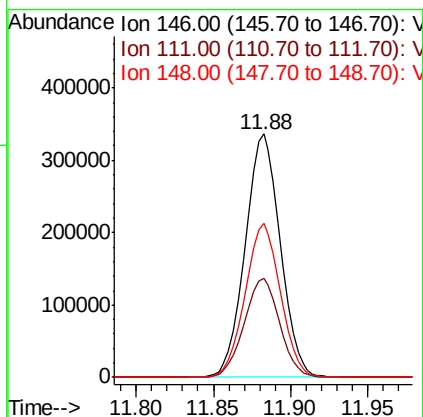
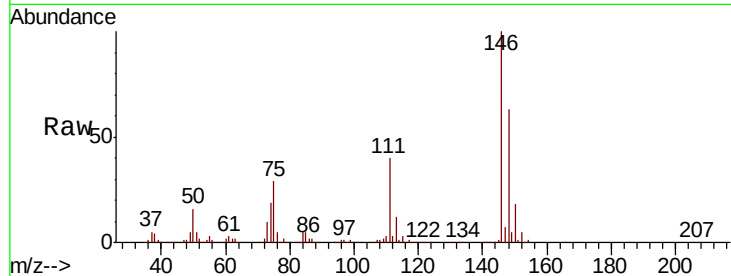




#65  
 1,2-Dichlorobenzene  
 Concen: 118.535 ug/L  
 RT: 11.88 min Scan# 3512  
 Delta R.T. 0.00 min  
 Lab File: VU026039.D  
 Acq: 10 Aug 2018 13:29

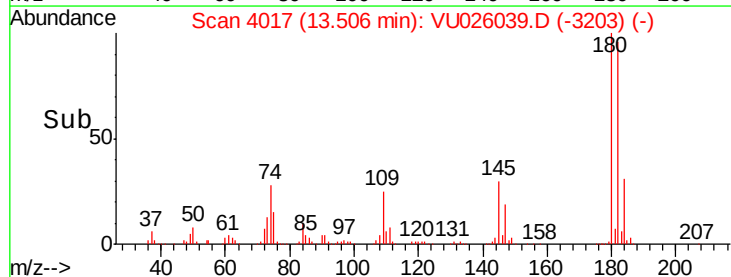
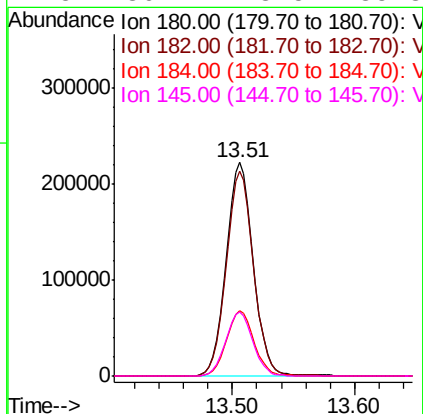
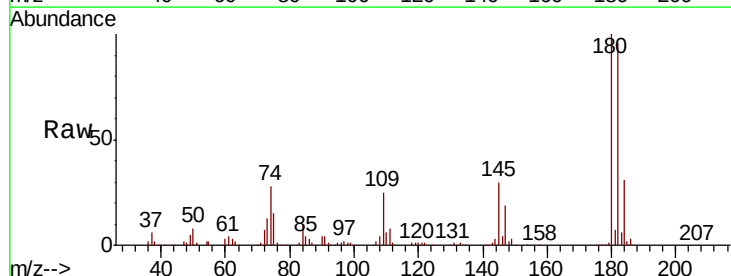
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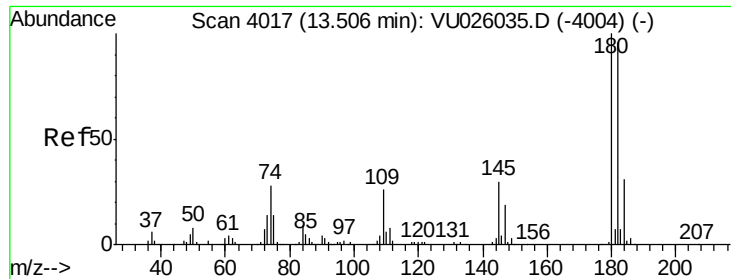
Tot Ion:146 Resp: 532124  
 Ion Ratio Lower Upper  
 146 100  
 111 40.4 32.4 48.6  
 148 63.0 50.1 75.1



#67  
 1,3,5-Trichlorobenzene  
 Concen: 109.912 ug/L  
 RT: 13.51 min Scan# 4017  
 Delta R.T. 0.62 min  
 Lab File: VU026039.D  
 Acq: 10 Aug 2018 13:29

Tgt Ion:180 Resp: 346450  
 Ion Ratio Lower Upper  
 180 100  
 182 96.1 76.5 114.7  
 184 31.1 24.3 36.5  
 145 30.1 23.5 35.3

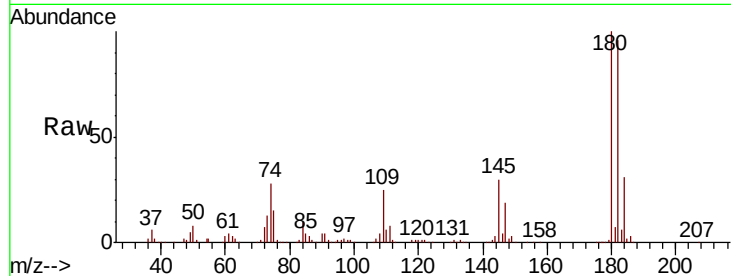




#68  
 1,2,4-trichlorobenzene  
 Concen: 129.974 ug/L  
 RT: 13.51 min Scan# 4017  
 Delta R.T. 0.00 min  
 Lab File: VU026039.D  
 Acq: 10 Aug 2018 13:29

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 A4ZE0

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.1  | 76.5  | 114.7 |
| 145     | 30.1  | 24.2  | 36.4  |

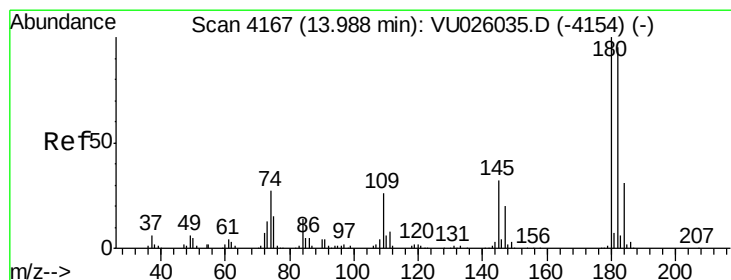
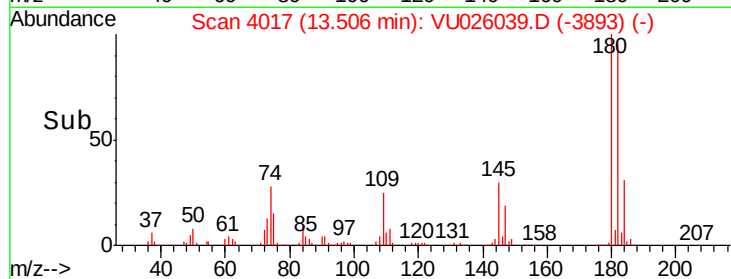
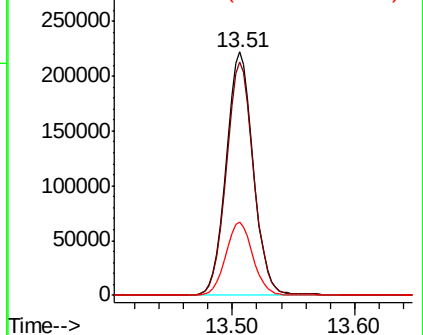


Abundance

Ion 180.00 (179.70 to 180.70): V

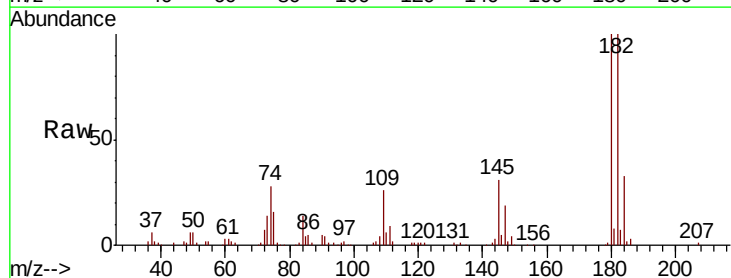
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#70  
 1,2,3-Trichlorobenzene  
 Concen: 32.061 ug/L  
 RT: 13.99 min Scan# 4168  
 Delta R.T. 0.00 min  
 Lab File: VU026039.D  
 Acq: 10 Aug 2018 13:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 98.2  | 76.5  | 114.7 |
| 145     | 31.2  | 24.7  | 37.1  |



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

