

Data File : VU032022.D  
Acq On : 15 May 2019 11:26  
Operator : JC/SP  
Sample : K2738-12DL 5X  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
DB897DL

Quant Time: May 16 04:28:03 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM051419WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu May 16 04:24:16 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 1031015  | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 1042570  | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 401787   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 368554   | 40.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 81.48%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 321238   | 43.85    | ug/L | 0.02    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 87.70%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 521942   | 32.19    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 64.38%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 580751   | 91.67    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 91.67%  |
| 24) Chloroform-d               | 4.64    | 84    | 677772   | 44.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.52%  |
| 26) 1,2-Dichloroethane-d4      | 5.30    | 65    | 444517   | 46.60    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.20%  |
| 32) Benzene-d6                 | 5.34    | 84    | 1416577  | 46.93    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.86%  |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 475505   | 47.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 95.50%  |
| 41) Toluene-d8                 | 7.56    | 98    | 1210714  | 44.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 89.54%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 197219   | 44.89    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 89.78%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 367773   | 91.07    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 91.07%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 646925   | 43.89    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 87.78%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.85   | 152   | 424021   | 50.16    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 100.32% |

#### Target Compounds

|                                |       |     |        |        |        | Qvalue |
|--------------------------------|-------|-----|--------|--------|--------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27  | 101 | 4719   | 0.615  | ug/L # | 22     |
| 13) Acetone                    | 2.33  | 43  | 4713   | 0.724  | ug/L   | 80     |
| 17) trans-1,2-Dichloroethene   | 2.98  | 96  | 24042  | 3.035  | ug/L   | 98     |
| 20) cis-1,2-Dichloroethene     | 4.22  | 96  | 15618  | 1.783  | ug/L   | 94     |
| 34) Trichloroethene            | 6.18  | 95  | 338376 | 40.010 | ug/L   | 98     |
| 44) trans-1,3-Dichloropropene  | 7.85  | 75  | 7914   | 0.692  | ug/L # | 82     |
| 46) Tetrachloroethene          | 8.22  | 164 | 69787  | 11.687 | ug/L   | 99     |
| 59) 1,2,3-Trichloropropane     | 11.48 | 75  | 48287  | 4.036  | ug/L   | 94     |

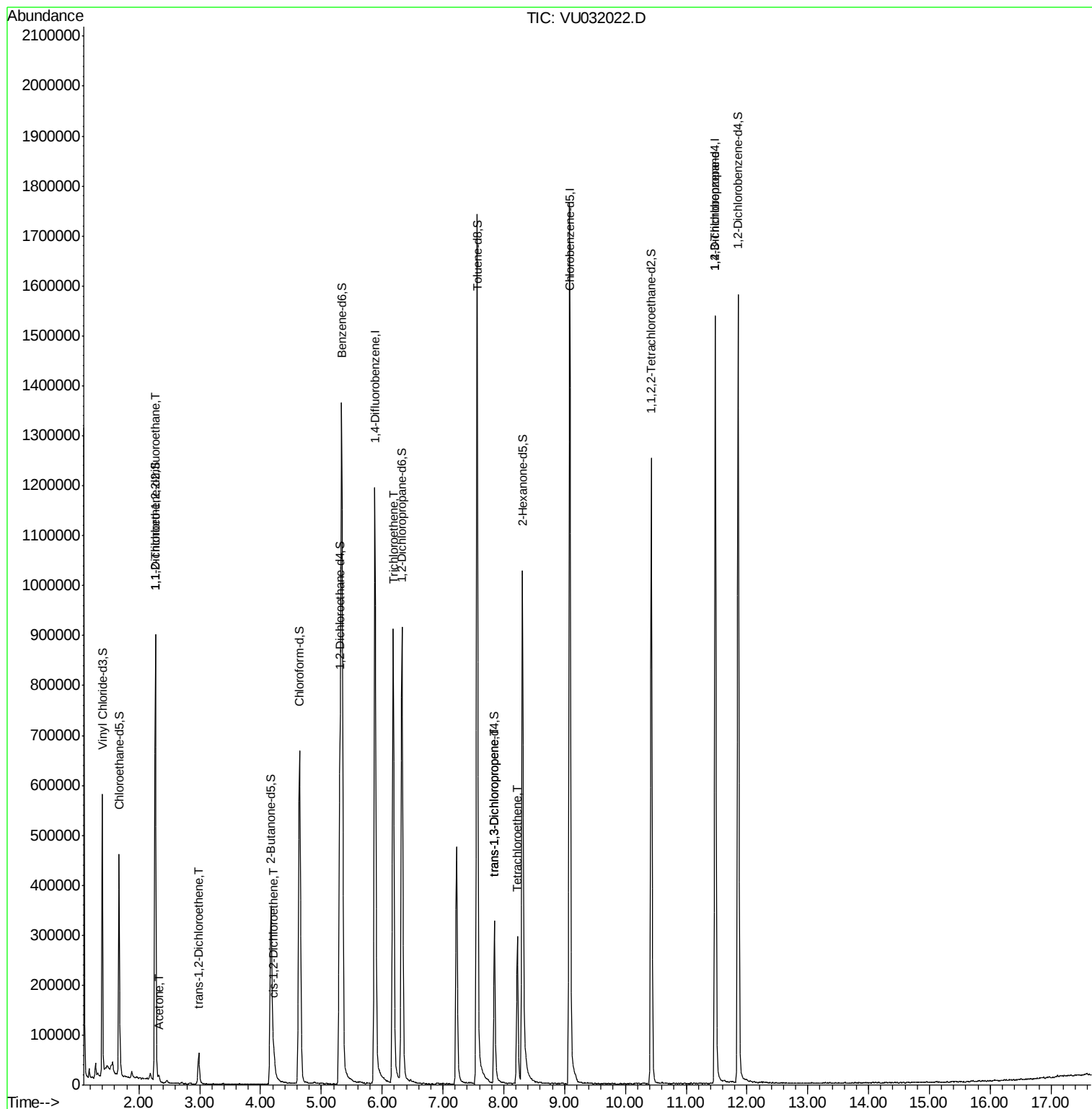
(#) = qualifier out of range (m) = manual integration (+) = signals summed

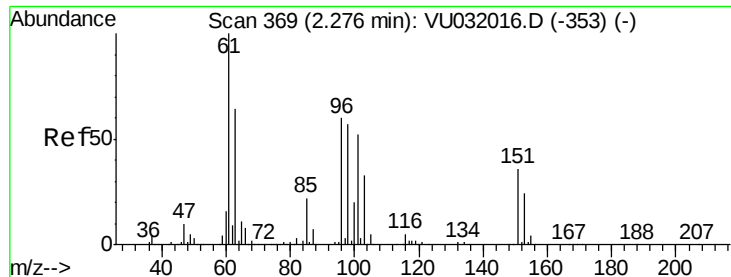
Data File : VU032022.D

```
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Quant Title : VOC Analysis  
QLast Update : Thu May 16 04:24:16 2019  
Response via : Initial Calibration





#10

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

Concen: 0.615 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.01 min

Lab File: VU032022.D

Acq: 15 May 2019 11:26

Instrument :

MSVOA\_U

ClientSampleId :

DB897DL

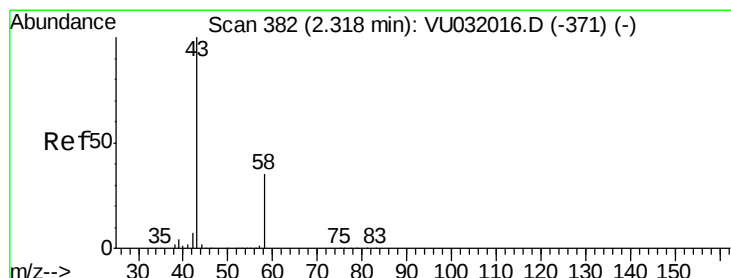
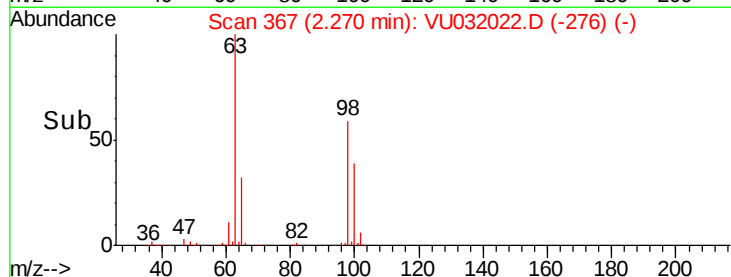
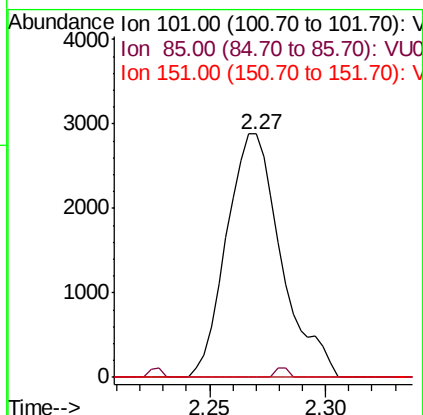
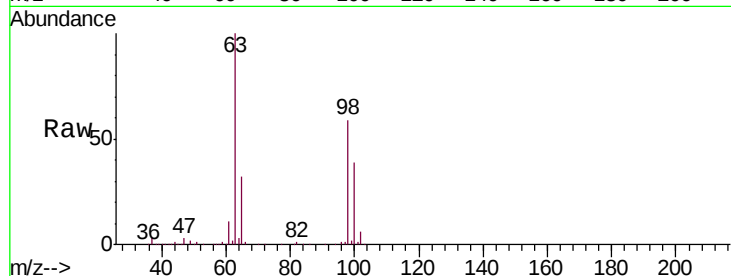
Tgt Ion:101 Resp: 4719

Ion Ratio Lower Upper

101 100

85 0.9 34.1 51.1#

151 0.0 55.8 83.8#



#13

Acetone

Concen: 0.724 ug/L

RT: 2.33 min Scan# 385

Delta R.T. 0.01 min

Lab File: VU032022.D

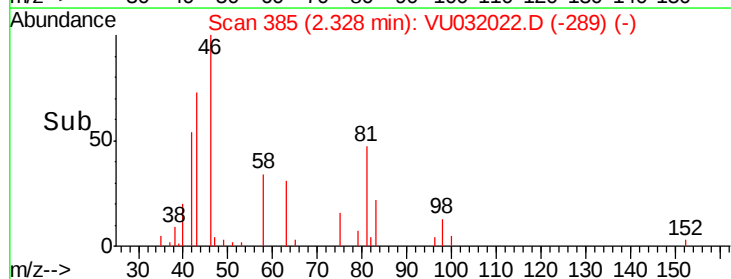
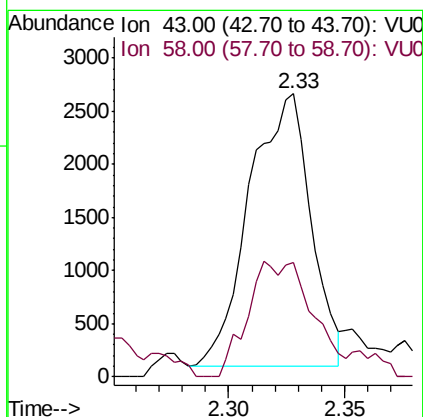
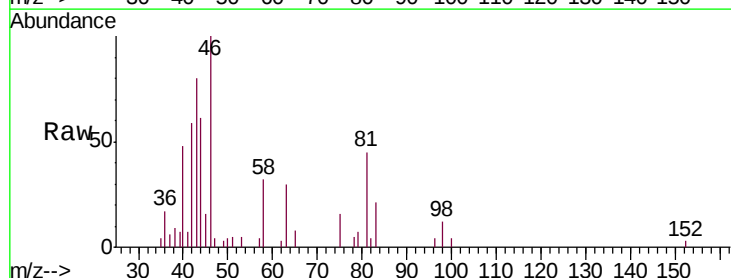
Acq: 15 May 2019 11:26

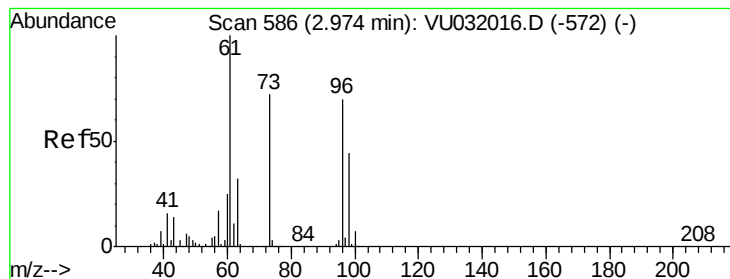
Tgt Ion: 43 Resp: 4713

Ion Ratio Lower Upper

43 100

58 22.4 0.0 68.2





#17

trans-1,2-Dichloroethene

Concen: 3.035 ug/L

RT: 2.98 min Scan# 589

Delta R.T. 0.01 min

Lab File: VU032022.D

Acq: 15 May 2019 11:26

Instrument :

MSVOA\_U

ClientSampleID :

DB897DL

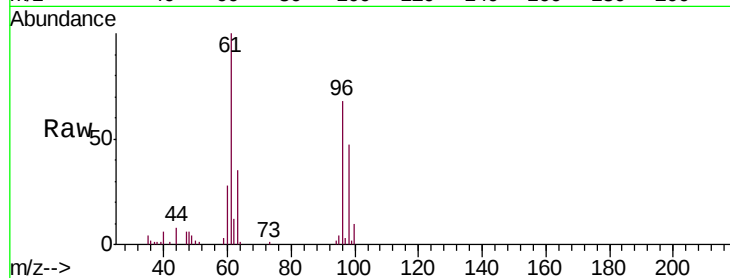
Tgt Ion: 96 Resp: 24042

Ion Ratio Lower Upper

96 100

61 146.0 103.2 191.6

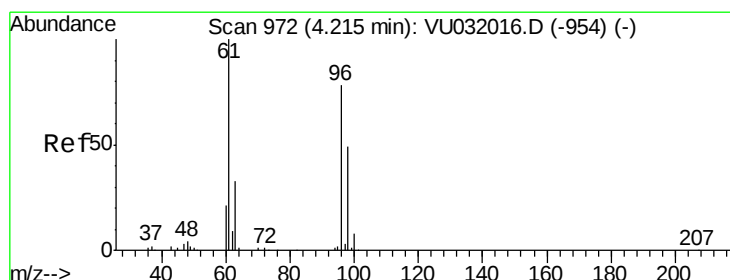
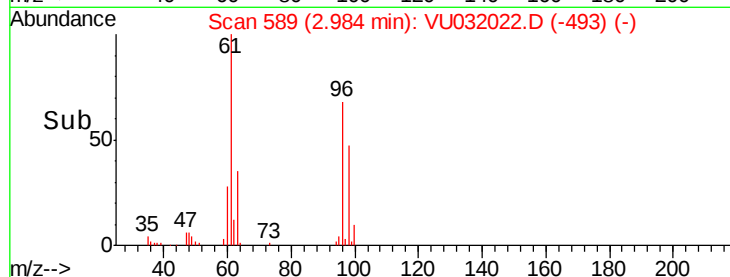
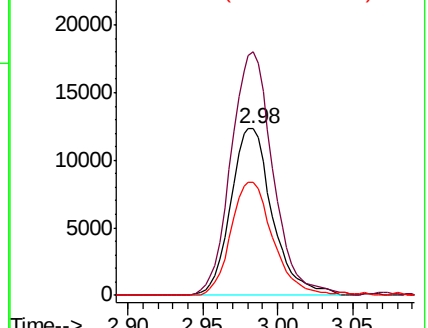
98 68.0 45.7 84.9



Abundance Ion 96.00 (95.70 to 96.70): VU032022.D (-493) (-)

Ion 61.00 (60.70 to 61.70): VU032022.D (-493) (-)

Ion 98.00 (97.70 to 98.70): VU032022.D (-493) (-)



#20

cis-1,2-Dichloroethene

Concen: 1.783 ug/L

RT: 4.22 min Scan# 974

Delta R.T. 0.01 min

Lab File: VU032022.D

Acq: 15 May 2019 11:26

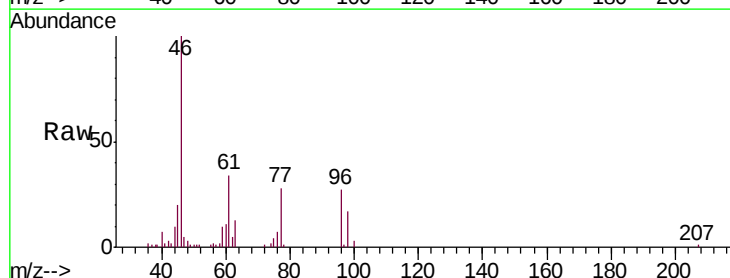
Tgt Ion: 96 Resp: 15618

Ion Ratio Lower Upper

96 100

61 125.8 93.0 172.8

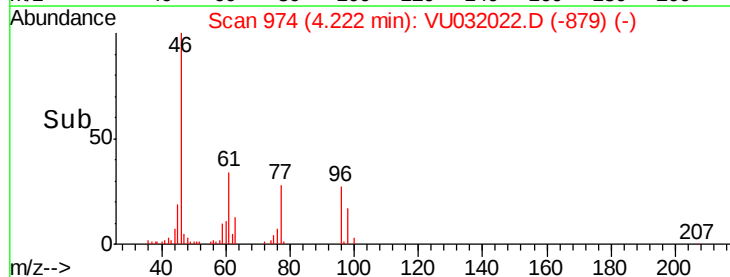
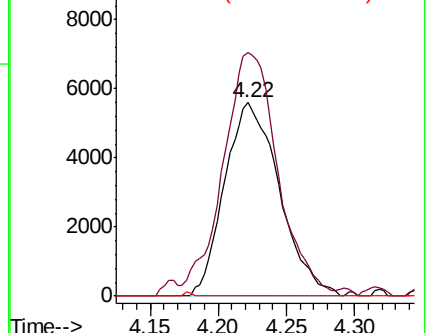
68 0.0 0.0 0.0

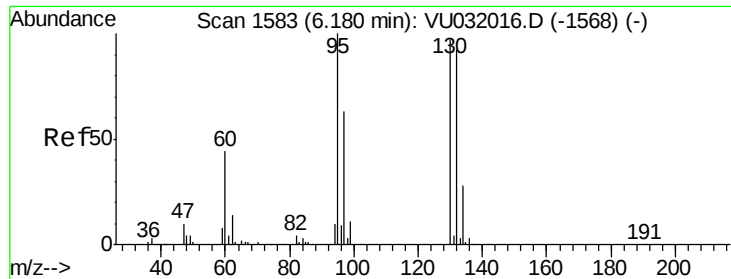


Abundance Ion 96.00 (95.70 to 96.70): VU032022.D (-879) (-)

Ion 61.00 (60.70 to 61.70): VU032022.D (-879) (-)

Ion 68.00 (67.70 to 68.70): VU032022.D (-879) (-)

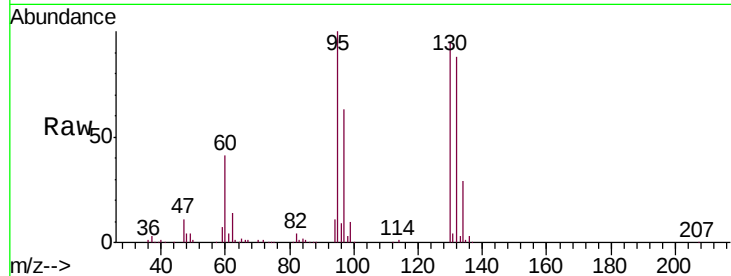




#34  
 Trichloroethene  
 Concen: 40.010 ug/L  
 RT: 6.18 min Scan# 1584  
 Delta R.T. 0.00 min  
 Lab File: VU032022.D  
 Acq: 15 May 2019 11:26

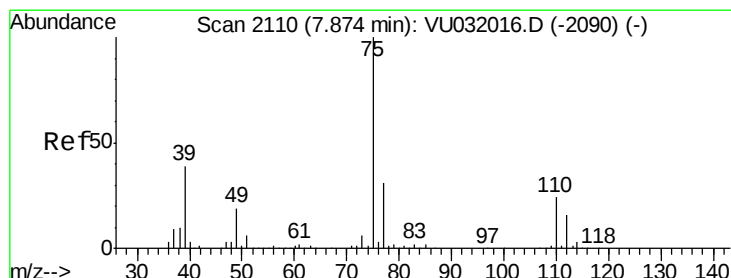
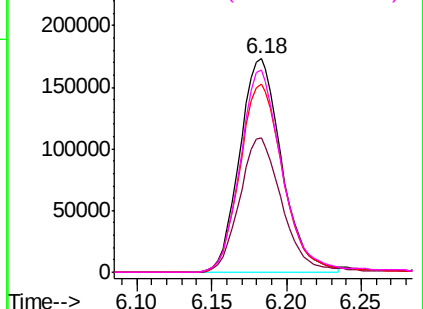
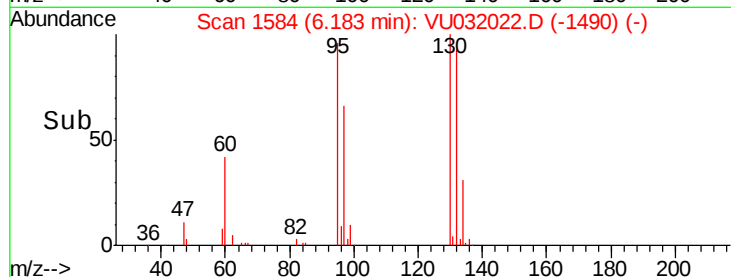
Instrument :  
 MSVOA\_U  
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|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 338376 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 97       | 62.9  | 44.9  | 83.3   |
| 132      | 88.0  | 63.5  | 117.9  |
| 130      | 94.8  | 66.2  | 123.0  |



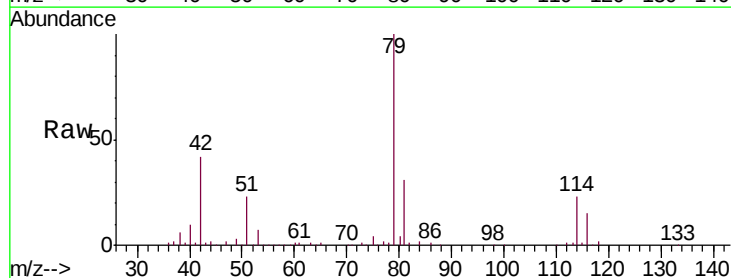
Abundance

Ion 95.00 (94.70 to 95.70): VU032022.D (-1490) (-)



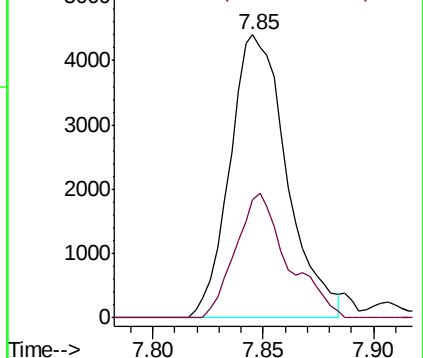
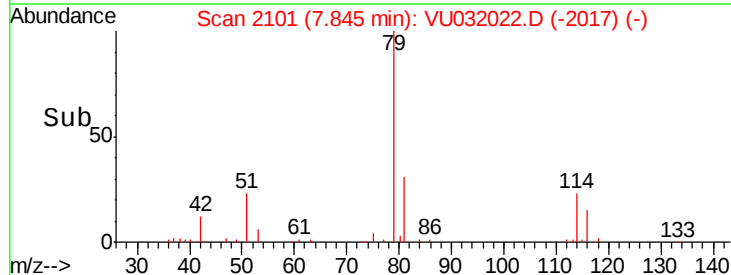
#44  
 trans-1,3-Dichloropropene  
 Concen: 0.692 ug/L  
 RT: 7.85 min Scan# 2101  
 Delta R.T. -0.03 min  
 Lab File: VU032022.D  
 Acq: 15 May 2019 11:26

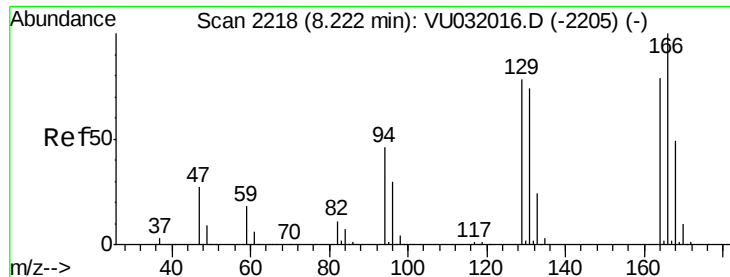
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 7914  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 42.0  | 22.5  | 41.7# |



Abundance

Ion 75.00 (74.70 to 75.70): VU032022.D (-2017) (-)





#46

Tetrachloroethene

Concen: 11.687 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU032022.D

Acq: 15 May 2019 11:26

Instrument :

MSVOA\_U

ClientSampleId :

DB897DL

Tgt Ion:164 Resp: 69787

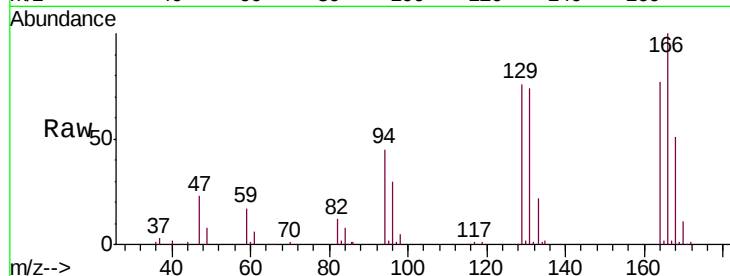
Ion Ratio Lower Upper

164 100

129 98.8 70.9 131.7

131 95.9 67.4 125.2

166 129.4 90.2 167.4

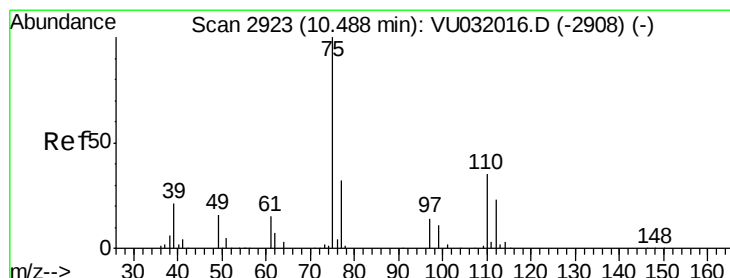
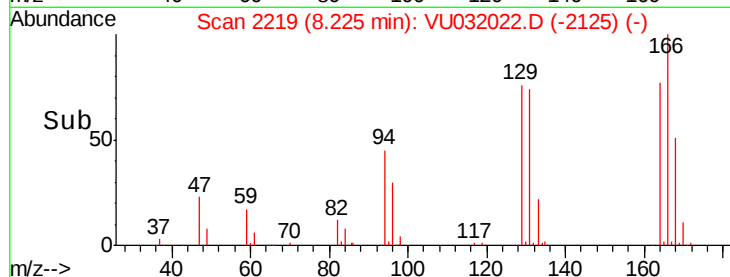
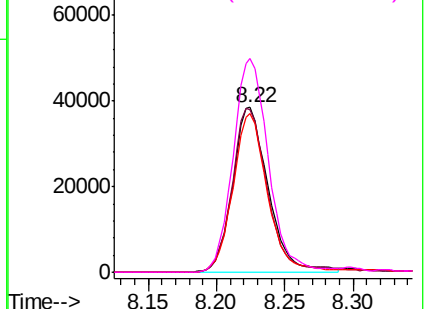


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#59

1,2,3-Trichloropropane

Concen: 4.036 ug/L

RT: 11.48 min Scan# 3231

Delta R.T. 0.99 min

Lab File: VU032022.D

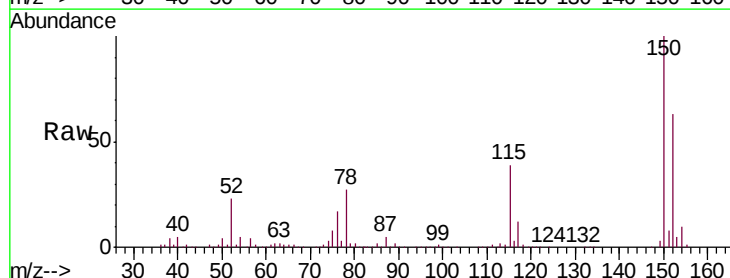
Acq: 15 May 2019 11:26

Tgt Ion: 75 Resp: 48287

Ion Ratio Lower Upper

75 100

77 35.7 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

