

Data File : VU031501.D  
Acq On : 25 Apr 2019 14:19  
Operator : JC/SP  
Sample : K2536-08DL 100X  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0X93DL

Quant Time: Apr 26 01:36:59 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR042419WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Apr 26 01:33:16 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 263946   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 274219   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 101534   | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39   | 65    | 101909   | 4.82     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 96.40%  |
| 7) Chloroethane-d5             | 1.68   | 69    | 84975    | 5.27     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 105.40% |
| 11) 1,1-Dichloroethene-d2      | 2.27   | 63    | 150169   | 3.78     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 75.60%  |
| 20) 2-Butanone-d5              | 4.21   | 46    | 321757   | 56.79    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 113.58% |
| 24) Chloroform-d               | 4.64   | 84    | 185081   | 5.52     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 110.40% |
| 26) 1,2-Dichloroethane-d4      | 5.31   | 65    | 108586   | 6.09     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 121.80% |
| 32) Benzene-d6                 | 5.33   | 84    | 347415   | 4.67     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.40%  |
| 36) 1,2-Dichloropropane-d6     | 6.32   | 67    | 126536   | 5.23     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 104.60% |
| 41) Toluene-d8                 | 7.56   | 98    | 265575   | 4.02     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 80.40%  |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 38952    | 4.11     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 82.20%  |
| 46) 2-Hexanone-d5              | 8.32   | 63    | 181984   | 38.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 77.80%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 94530    | 4.90     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 98.00%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86  | 152   | 94463    | 5.20     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 104.00% |

#### Target Compounds

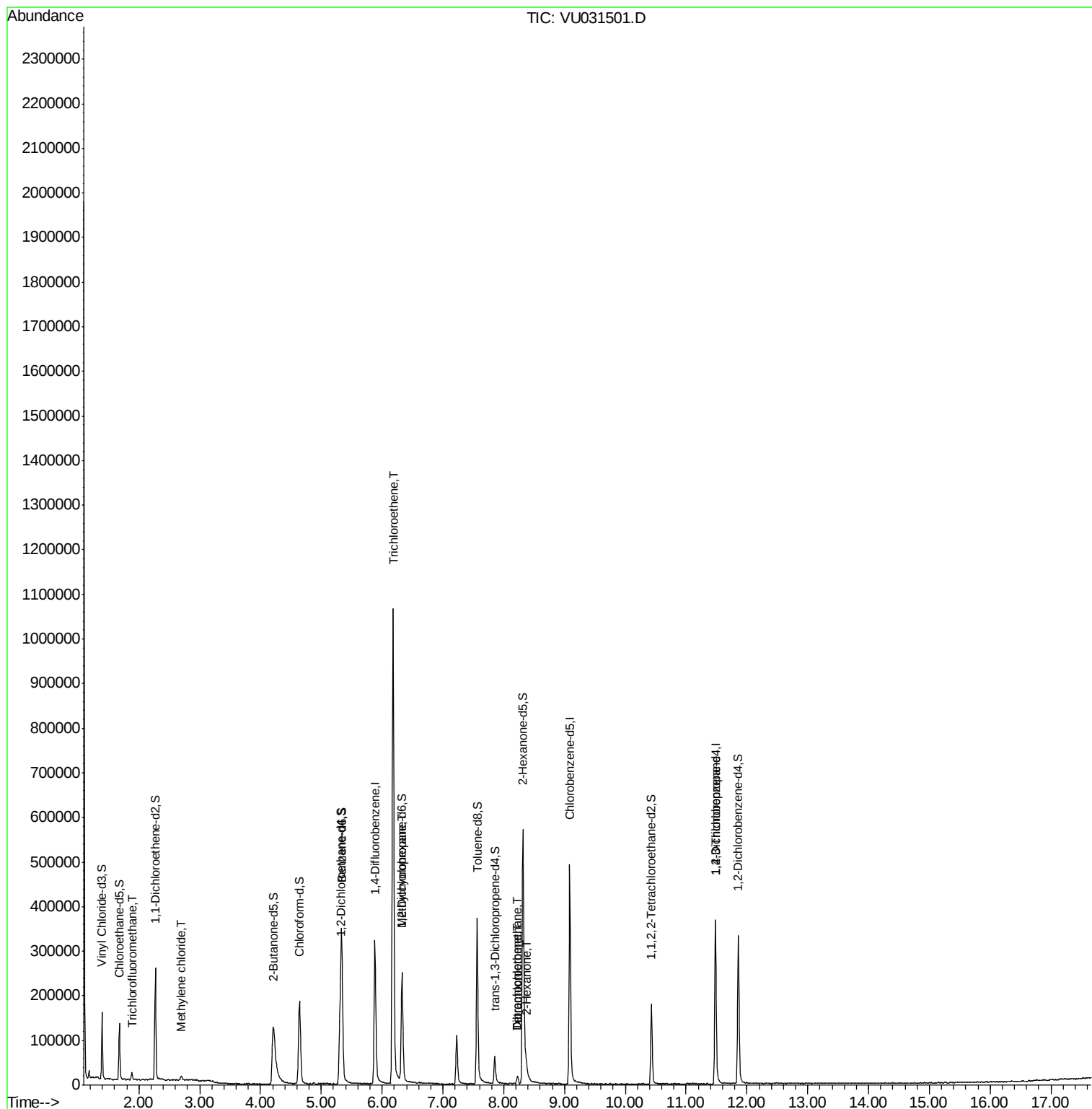
|                            |       |     |        |        |        | Qvalue |
|----------------------------|-------|-----|--------|--------|--------|--------|
| 9) Trichlorofluoromethane  | 1.88  | 101 | 7835   | 0.247  | ug/L   | 93     |
| 16) Methylene chloride     | 2.70  | 84  | 4259   | 0.205  | ug/L   | 88     |
| 34) Trichloroethene        | 6.18  | 95  | 396211 | 17.742 | ug/L   | 98     |
| 35) Methylcyclohexane      | 6.33  | 83  | 27403  | 0.829  | ug/L # | 15     |
| 47) Tetrachloroethene      | 8.23  | 164 | 4287   | 0.275  | ug/L   | 97     |
| 48) 2-Hexanone             | 8.38  | 43  | 22739  | 2.086  | ug/L # | 72     |
| 49) Dibromochloromethane   | 8.23  | 129 | 4194   | 0.242  | ug/L # | 9      |
| 59) 1,2,3-Trichloropropane | 11.48 | 75  | 12362  | 0.864  | ug/L # | 79     |

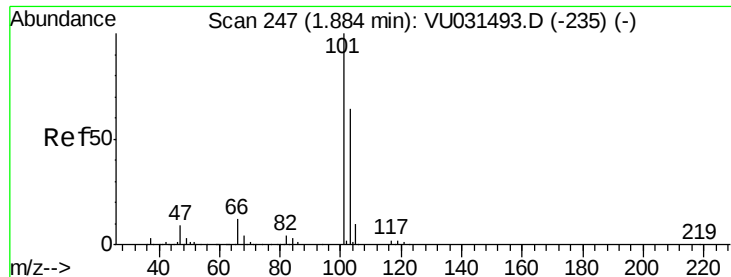
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#9

Trichlorofluoromethane

Concen: 0.247 ug/L

RT: 1.88 min Scan# 247

Delta R.T. 0.00 min

Lab File: VU031501.D

Acq: 25 Apr 2019 14:19

Instrument :

MSVOA\_U

ClientSampleId :

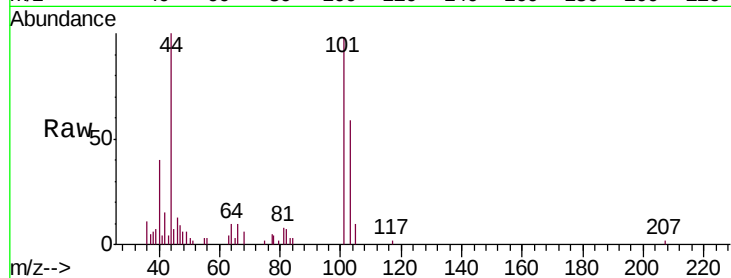
C0X93DL

Tgt Ion:101 Resp: 7835

Ion Ratio Lower Upper

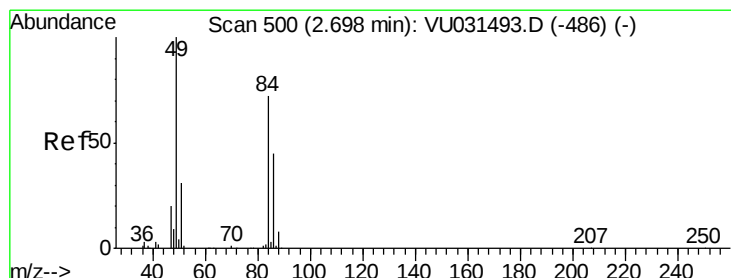
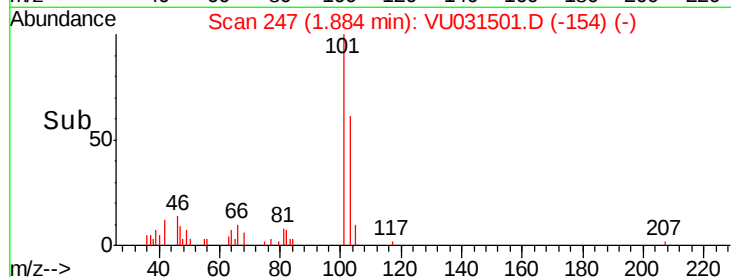
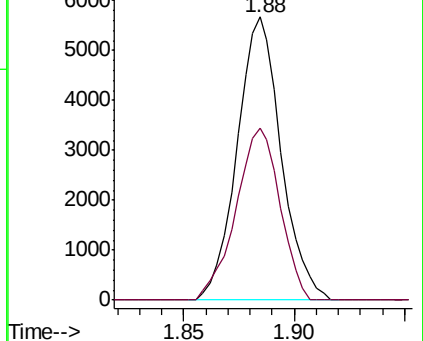
101 100

103 60.7 52.7 79.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#16

Methylene chloride

Concen: 0.205 ug/L

RT: 2.70 min Scan# 501

Delta R.T. 0.00 min

Lab File: VU031501.D

Acq: 25 Apr 2019 14:19

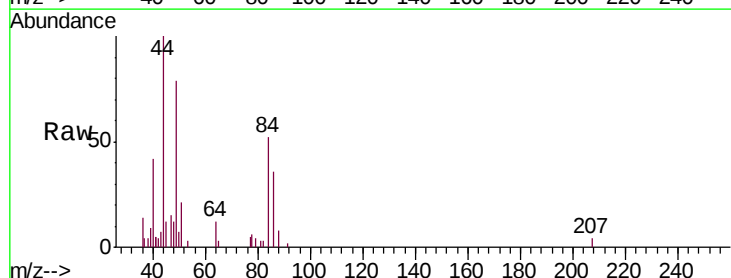
Tgt Ion: 84 Resp: 4259

Ion Ratio Lower Upper

84 100

86 68.3 44.9 83.5

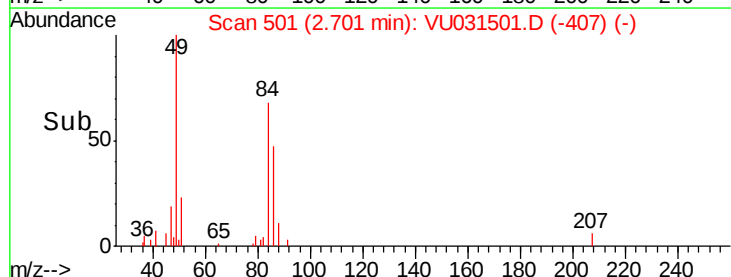
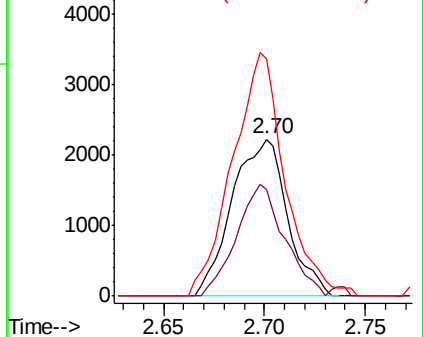
49 151.5 92.9 172.5

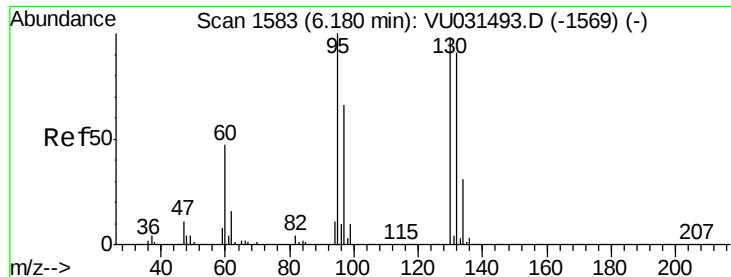


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

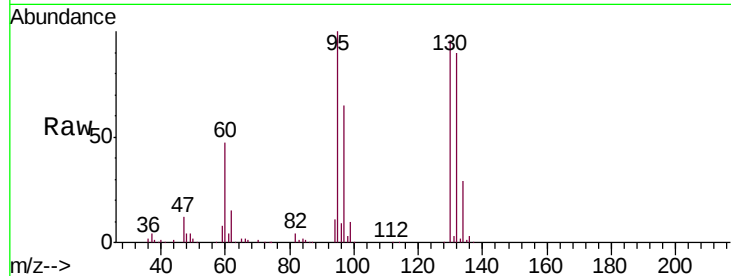




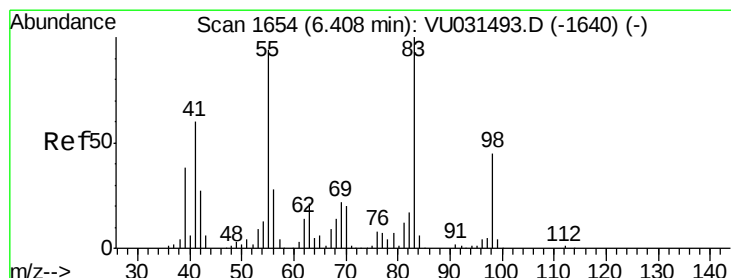
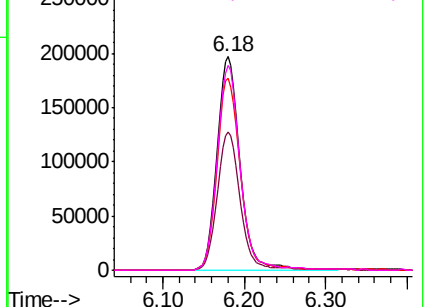
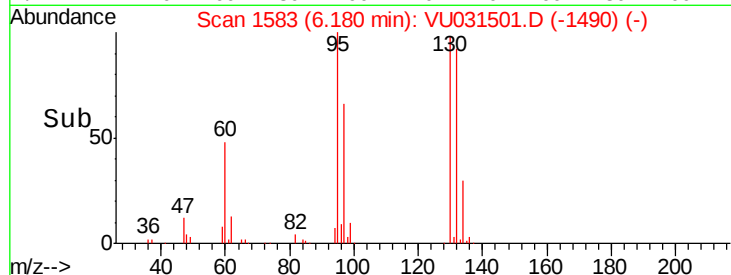
#34  
 Trichloroethene  
 Concen: 17.742 ug/L  
 RT: 6.18 min Scan# 1583  
 Delta R.T. 0.00 min  
 Lab File: VU031501.D  
 Acq: 25 Apr 2019 14:19

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0X93DL

Tgt Ion: 95 Resp: 396211  
 Ion Ratio Lower Upper  
 95 100  
 97 64.9 44.3 82.3  
 132 89.7 59.9 111.3  
 130 95.9 67.1 124.5

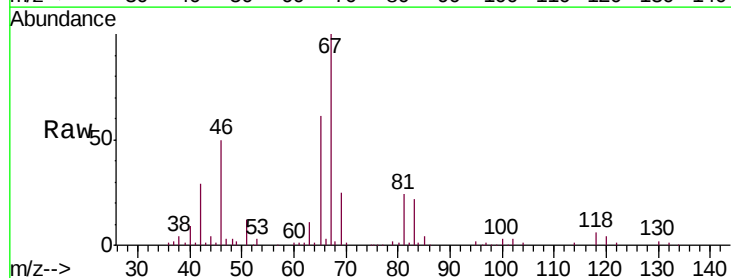


Abundance Ion 95.00 (94.70 to 95.70): VU0  
 Ion 96.95 (96.65 to 97.65): VU0  
 Ion 131.95 (131.65 to 132.65): V  
 Ion 129.95 (129.65 to 130.65): V

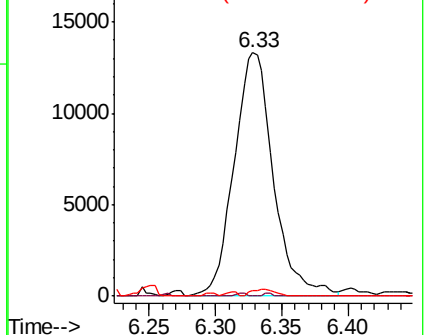
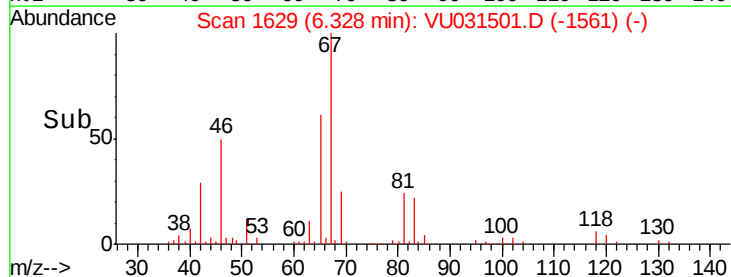


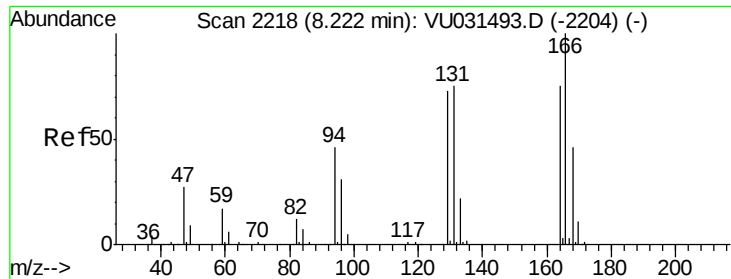
#35  
 Methylcyclohexane  
 Concen: 0.829 ug/L  
 RT: 6.33 min Scan# 1629  
 Delta R.T. -0.08 min  
 Lab File: VU031501.D  
 Acq: 25 Apr 2019 14:19

Tgt Ion: 83 Resp: 27403  
 Ion Ratio Lower Upper  
 83 100  
 55 0.2 71.1 106.7#  
 98 1.7 36.6 54.8#



Abundance Ion 83.15 (82.85 to 83.85): VU0  
 Ion 55.10 (54.80 to 55.80): VU0  
 Ion 98.15 (97.85 to 98.85): VU0

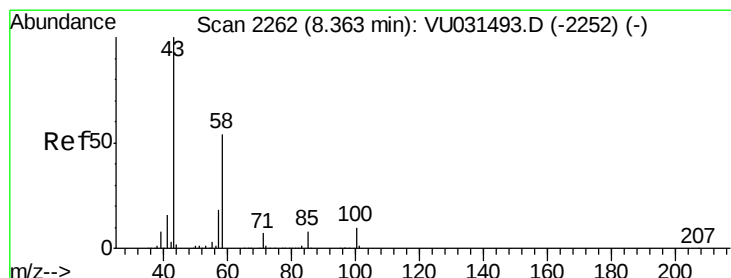
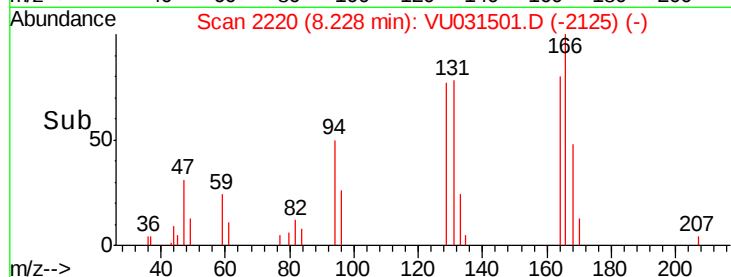
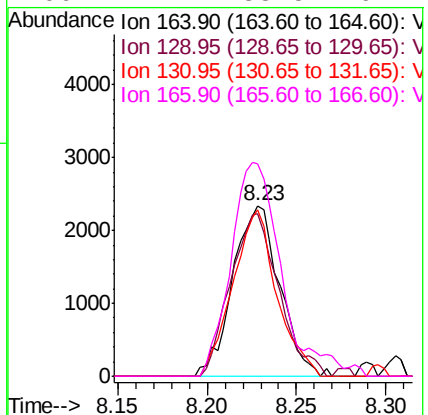
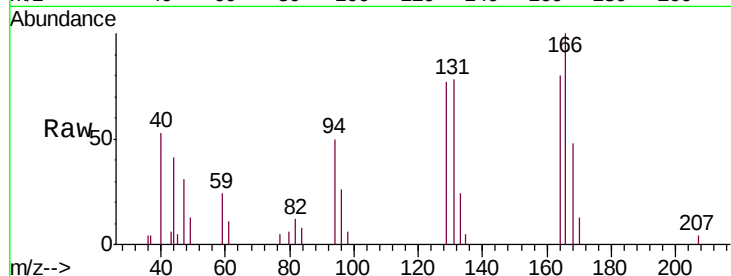




#47  
Tetrachloroethene  
Concen: 0.275 ug/L  
RT: 8.23 min Scan# 2220  
Delta R.T. 0.01 min  
Lab File: VU031501.D  
Acq: 25 Apr 2019 14:19

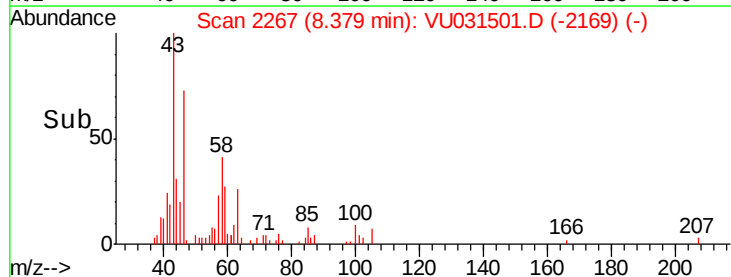
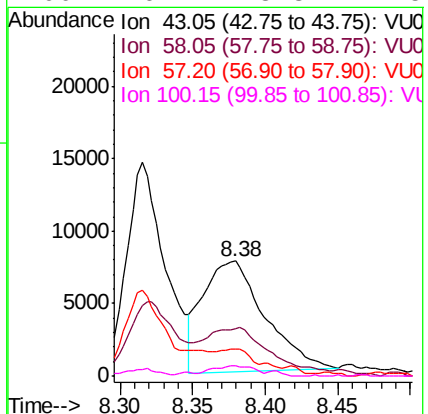
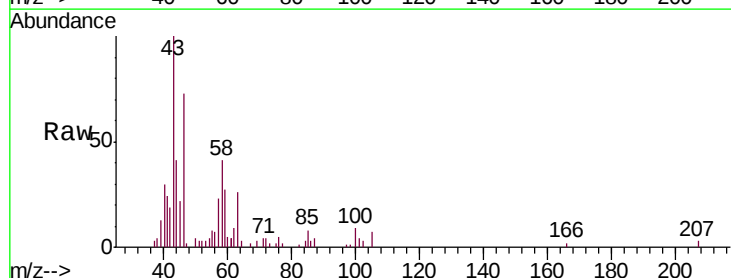
Instrument :  
MSVOA\_U  
ClientSampleId :  
C0X93DL

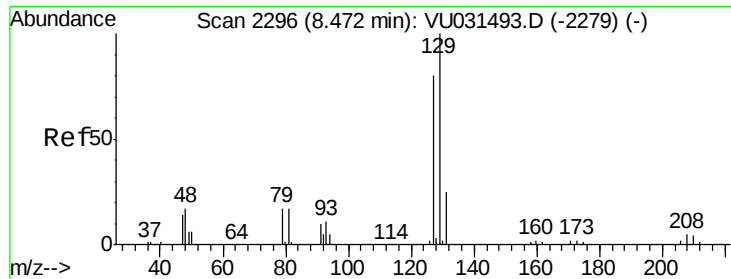
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 4287  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 95.6  | 67.5  | 125.3 |
| 131      | 97.7  | 64.0  | 119.0 |
| 166      | 124.7 | 88.5  | 164.4 |



#48  
2-Hexanone  
Concen: 2.086 ug/L  
RT: 8.38 min Scan# 2267  
Delta R.T. 0.02 min  
Lab File: VU031501.D  
Acq: 25 Apr 2019 14:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 22739 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 37.3  | 44.6  | 67.0# |
| 57       | 0.0   | 15.3  | 22.9# |
| 100      | 6.1   | 8.3   | 12.5# |





#49

Dibromochloromethane

Concen: 0.242 ug/L

RT: 8.23 min Scan# 2220

Delta R.T. -0.24 min

Lab File: VU031501.D

Acq: 25 Apr 2019 14:19

Instrument :

MSVOA\_U

ClientSampled :

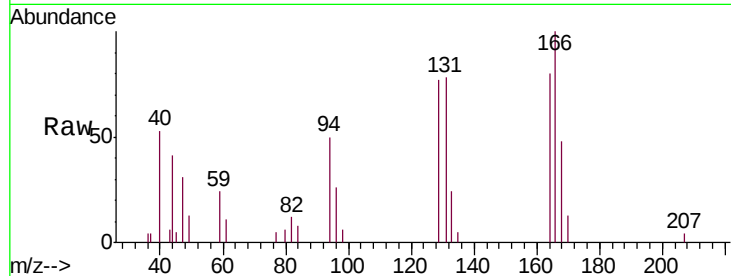
C0X93DL

Tgt Ion:129 Resp: 4194

Ion Ratio Lower Upper

129 100

127 0.0 56.6 105.0#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.23

2500

2000

1500

1000

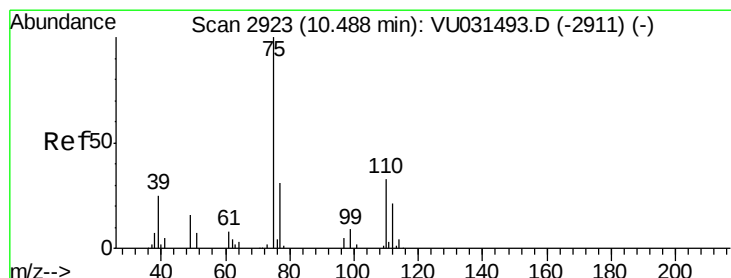
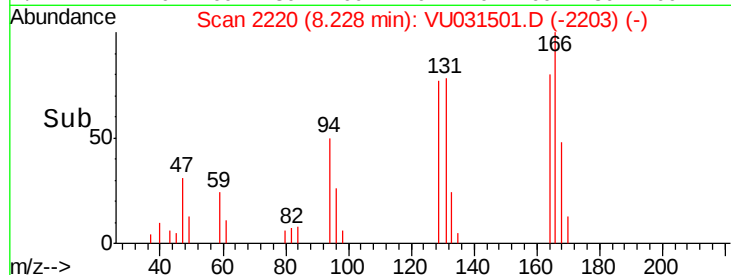
500

0

8.20

8.25

Time-->



#59

1,2,3-Trichloropropane

Concen: 0.864 ug/L

RT: 11.48 min Scan# 3232

Delta R.T. 0.99 min

Lab File: VU031501.D

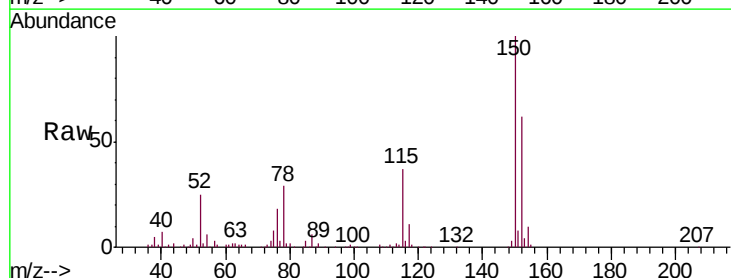
Acq: 25 Apr 2019 14:19

Tgt Ion: 75 Resp: 12362

Ion Ratio Lower Upper

75 100

77 43.9 25.7 38.5#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

11.48

8000

6000

4000

2000

0

11.45

11.50

Time-->

