

Data File : VU030493.D  
Acq On : 27 Mar 2019 19:07  
Operator : JC/SP  
Sample : K2022-12RE  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C09C7RE

Quant Time: Mar 28 02:49:07 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Mar 28 02:45:06 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 424048   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 407862   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 183039   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 150692   | 44.16    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 88.32% |
| 7) Chloroethane-d5             | 1.68    | 69    | 122482   | 45.28    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 90.56% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 211799   | 32.72    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 65.44% |
| 21) 2-Butanone-d5              | 4.17    | 46    | 257229   | 80.18    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 80.18% |
| 24) Chloroform-d               | 4.64    | 84    | 251585   | 42.79    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 85.58% |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 171167   | 44.49    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 88.98% |
| 32) Benzene-d6                 | 5.34    | 84    | 521161   | 44.56    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.12% |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 180779   | 45.17    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 90.34% |
| 41) Toluene-d8                 | 7.56    | 98    | 456529   | 43.46    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 86.92% |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 76098    | 40.44    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 80.88% |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 165966   | 76.53    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 76.53% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 236001   | 41.21    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 82.42% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 157915   | 43.06    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 86.12% |

#### Target Compounds

|                                |       |     |        |        |        | Qvalue |
|--------------------------------|-------|-----|--------|--------|--------|--------|
| 8) Chloroethane                | 1.53  | 64  | 1854   | 0.662  | ug/L # | 55     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27  | 101 | 2097   | 0.678  | ug/L # | 21     |
| 13) Acetone                    | 2.32  | 43  | 13213  | 4.073  | ug/L   | 95     |
| 33) Benzene                    | 5.39  | 78  | 9694   | 0.698  | ug/L   | 100    |
| 44) trans-1,3-Dichloropropene  | 7.85  | 75  | 3186   | 0.639  | ug/L   | 96     |
| 48) 2-Hexanone                 | 8.37  | 43  | 6204   | 1.144  | ug/L # | 44     |
| 51) Chlorobenzene              | 9.12  | 112 | 796957 | 91.259 | ug/L   | 98     |
| 62) 1,3-Dichlorobenzene        | 11.41 | 146 | 360365 | 60.203 | ug/L   | 100    |
| 63) 1,4-Dichlorobenzene        | 11.50 | 146 | 422062 | 68.491 | ug/L   | 99     |
| 65) 1,2-Dichlorobenzene        | 11.87 | 146 | 68475  | 11.313 | ug/L   | 98     |
| 67) 1,3,5-Trichlorobenzene     | 13.50 | 180 | 231673 | 51.699 | ug/L   | 98     |
| 68) 1,2,4-trichlorobenzene     | 13.50 | 180 | 231673 | 59.501 | ug/L   | 98     |
| 70) 1,2,3-Trichlorobenzene     | 13.98 | 180 | 40920  | 9.953  | ug/L   | 94     |

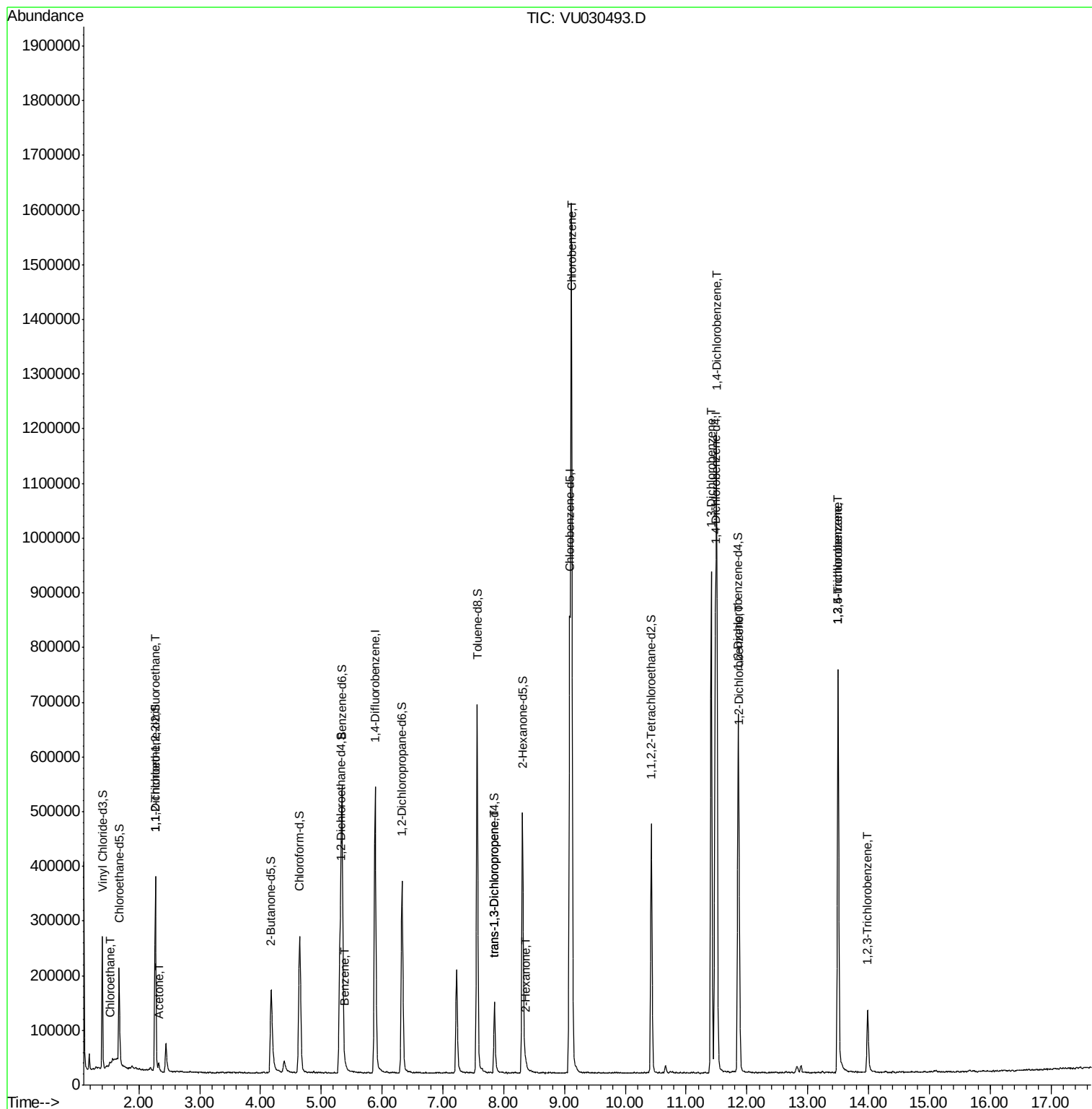
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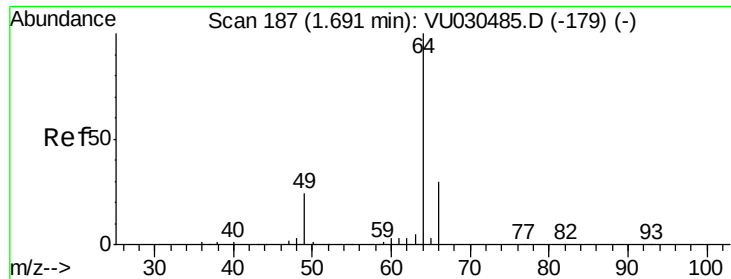
Data File : VU030493.D

```
Acq On       : 27 Mar 2019   19:07
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Sample      : K2022-12RE
Misc        : 5.0mL/MSVOA_U/WATER
ALS Vial    : 23   Sample Multiplier: 1
```

**Instrument :**  
MSVOA\_U  
**ClientSampleId :**  
C09C7RE

Quant Time: Mar 28 02:49:07 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Mar 28 02:45:06 2019  
Response via : Initial Calibration

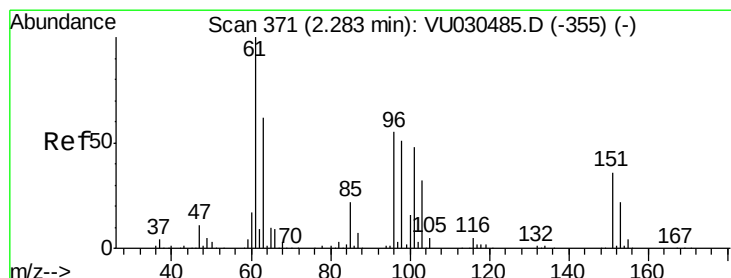
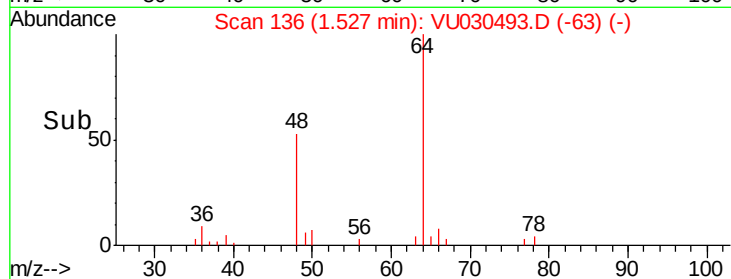
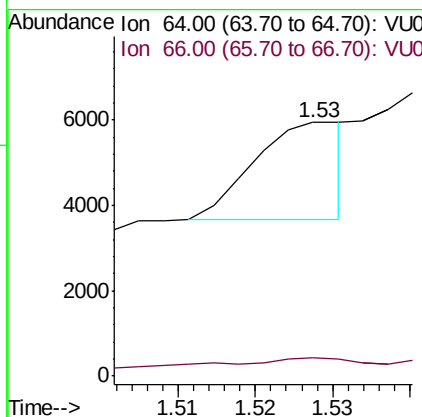
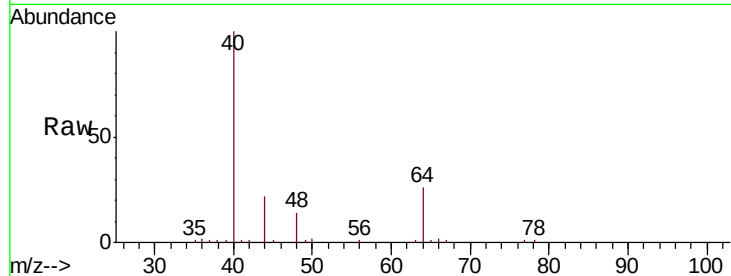




#8  
Chloroethane  
Concen: 0.662 ug/L  
RT: 1.53 min Scan# 136  
Delta R.T. -0.16 min  
Lab File: VU030493.D  
Acq: 27 Mar 2019 19:07

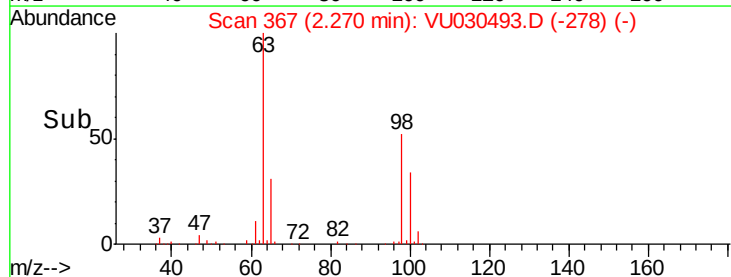
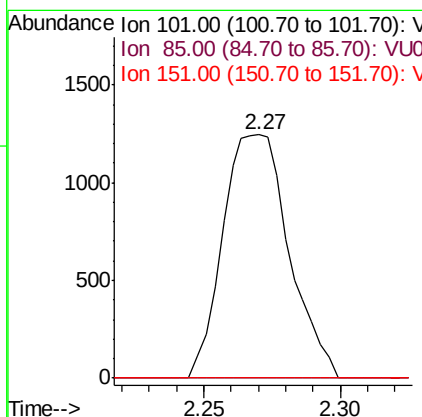
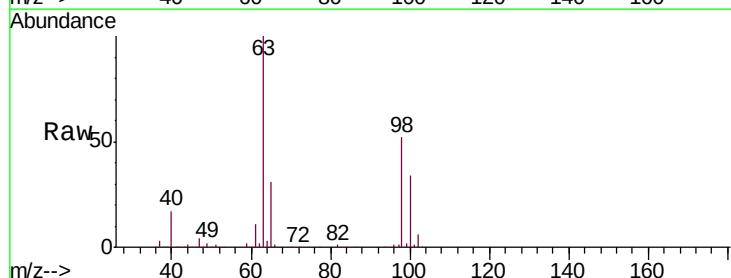
Instrument :  
MSVOA\_U  
ClientSampleId :  
C09C7RE

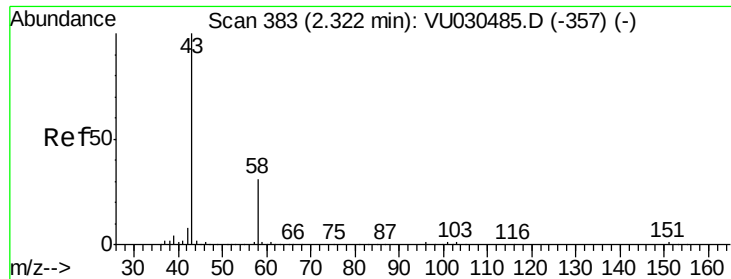
Tgt Ion: 64 Resp: 1854  
Ion Ratio Lower Upper  
64 100  
66 7.1 22.5 41.7#



#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 0.678 ug/L  
RT: 2.27 min Scan# 367  
Delta R.T. -0.01 min  
Lab File: VU030493.D  
Acq: 27 Mar 2019 19:07

Tgt Ion: 101 Resp: 2097  
Ion Ratio Lower Upper  
101 100  
85 0.0 34.8 52.2#  
151 0.0 56.6 85.0#





#13

Acetone

Concen: 4.073 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VU030493.D

Acq: 27 Mar 2019 19:07

Instrument :

MSVOA\_U

ClientSampleId :

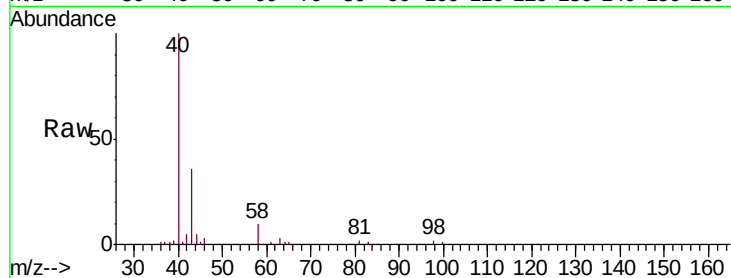
C09C7RE

Tgt Ion: 43 Resp: 13213

Ion Ratio Lower Upper

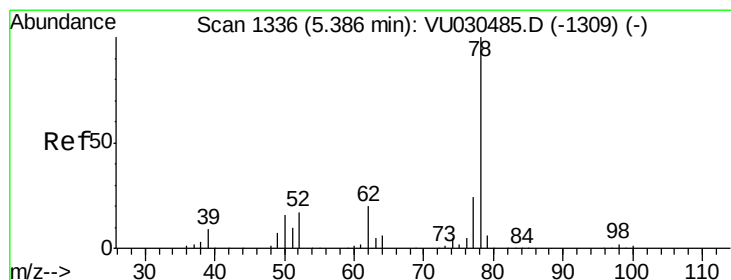
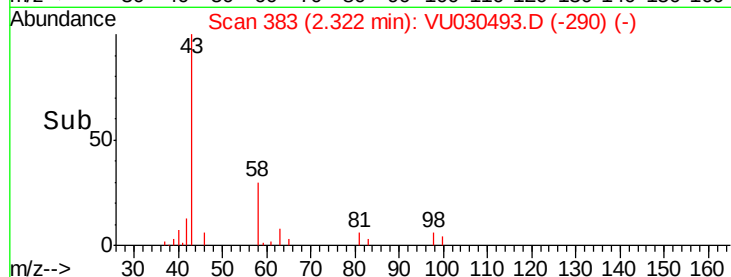
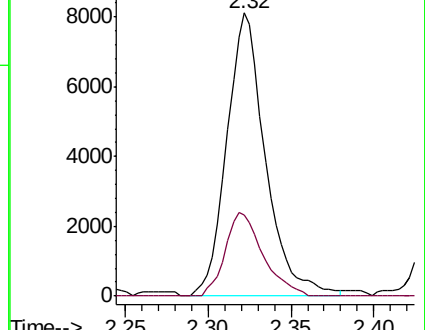
43 100

58 28.6 0.0 62.8



Abundance Ion 43.00 (42.70 to 43.70): VU030485.D (-357) (-)

Ion 58.00 (57.70 to 58.70): VU030485.D (-357) (-)



#33

Benzene

Concen: 0.698 ug/L

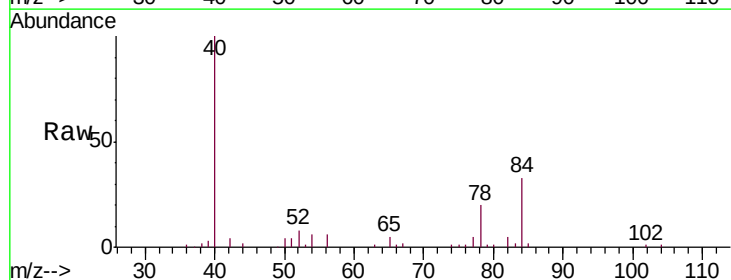
RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU030493.D

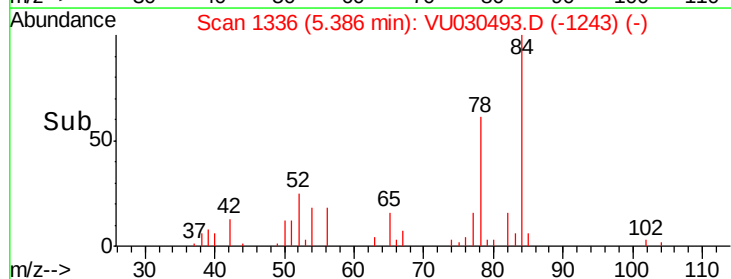
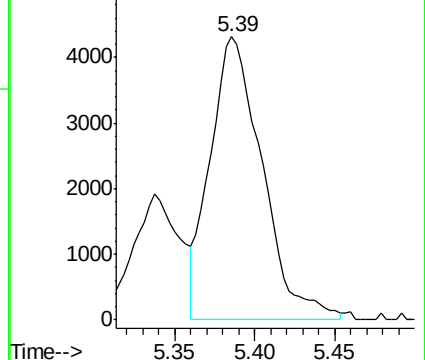
Acq: 27 Mar 2019 19:07

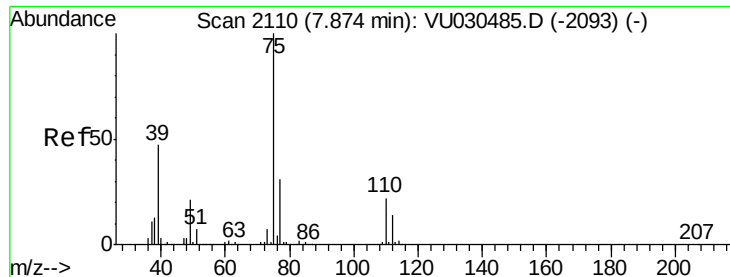
Tgt Ion: 78 Resp: 9694



Abundance Ion 78.00 (77.70 to 78.70): VU030485.D (-1309) (-)

Ion 5.39 (5.35 to 5.43): VU030485.D (-1309) (-)





#44

trans-1,3-Dichloropropene

Concen: 0.639 ug/L

RT: 7.85 min Scan# 2101

Delta R.T. -0.03 min

Lab File: VU030493.D

Acq: 27 Mar 2019 19:07

Instrument :

MSVOA\_U

ClientSampleId :

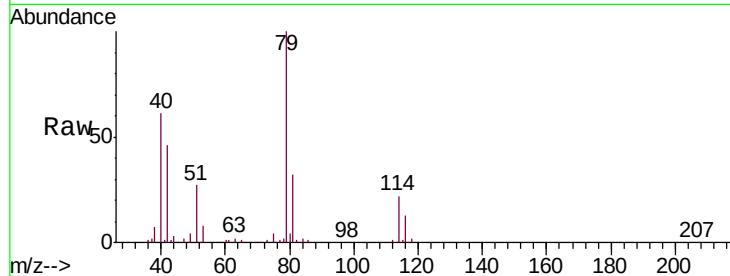
C09C7RE

Tgt Ion: 75 Resp: 3186

Ion Ratio Lower Upper

75 100

77 33.5 22.0 40.8



Abundance Ion 75.00 (74.70 to 75.70): VU030485.D (-2093) (-)

Ion 77.00 (76.70 to 77.70): VU030485.D (-2093) (-)

7.85

2000

1500

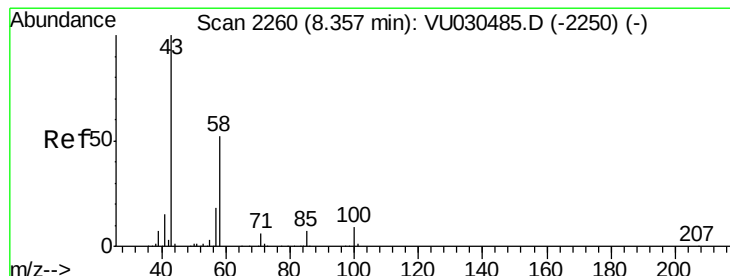
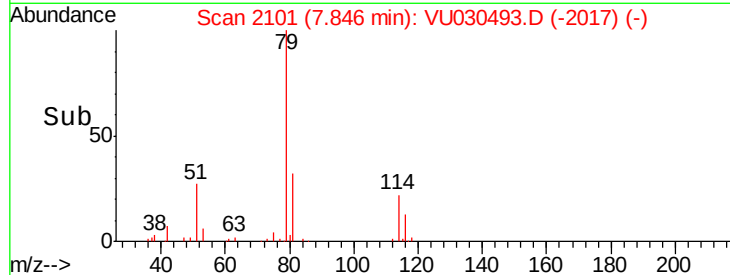
1000

500

0

7.80 7.85 7.90

Time-->



#48

2-Hexanone

Concen: 1.144 ug/L

RT: 8.37 min Scan# 2263

Delta R.T. 0.01 min

Lab File: VU030493.D

Acq: 27 Mar 2019 19:07

Tgt Ion: 43 Resp: 6204

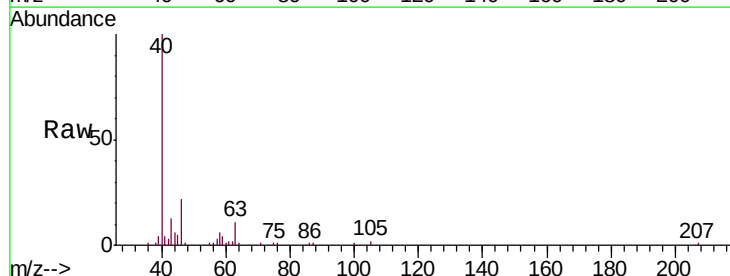
Ion Ratio Lower Upper

43 100

58 0.0 42.5 63.7#

57 6.2 15.0 22.6#

100 6.0 7.4 11.2#



Abundance Ion 43.00 (42.70 to 43.70): VU030485.D (-2250) (-)

Ion 58.00 (57.70 to 58.70): VU030485.D (-2250) (-)

Ion 57.00 (56.70 to 57.70): VU030485.D (-2250) (-)

Ion 100.00 (99.70 to 100.70): VU030485.D (-2250) (-)

15000

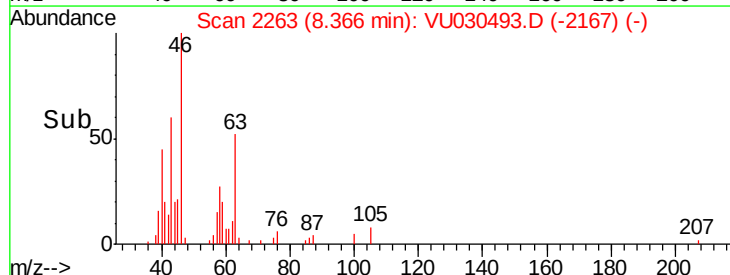
10000

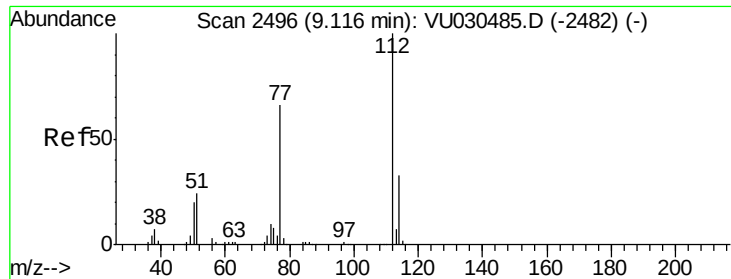
5000

0

8.35 8.37 8.40 8.45

Time-->

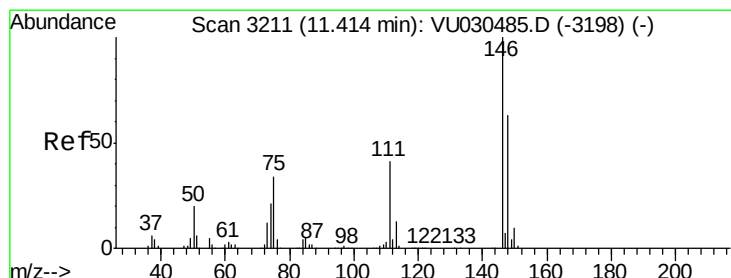
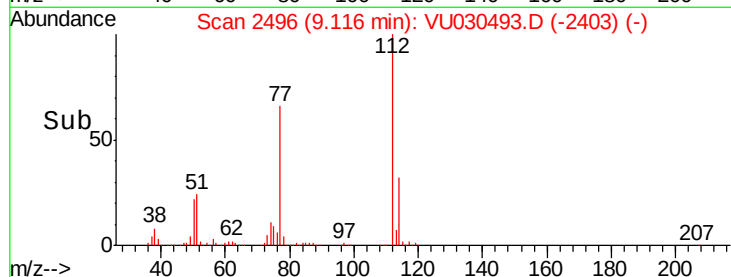
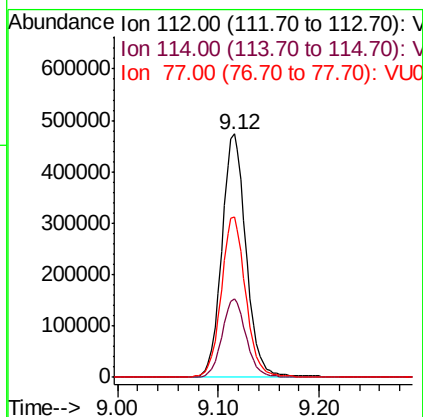
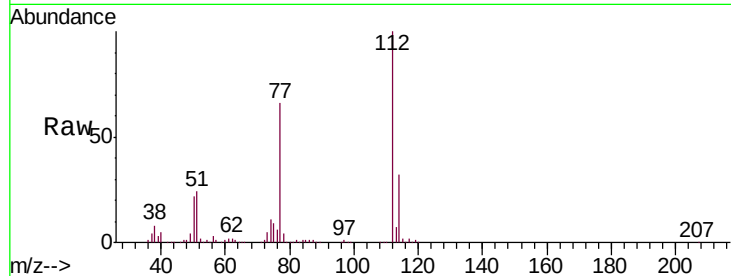




#51  
Chlorobenzene  
Concen: 91.259 ug/L  
RT: 9.12 min Scan# 2496  
Delta R.T. 0.00 min  
Lab File: VU030493.D  
Acq: 27 Mar 2019 19:07

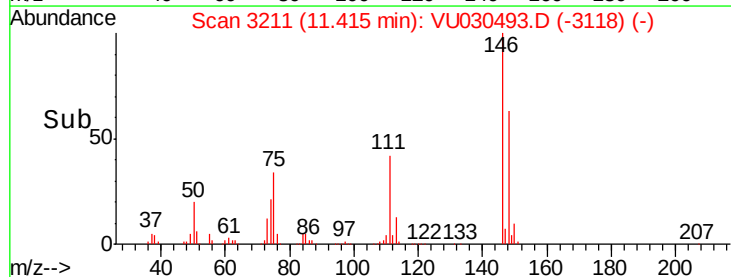
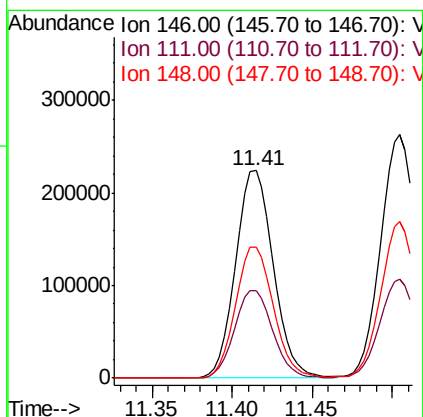
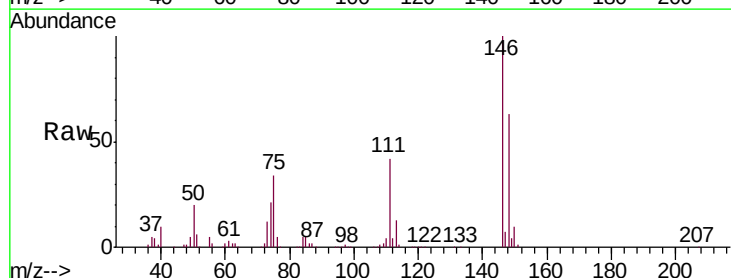
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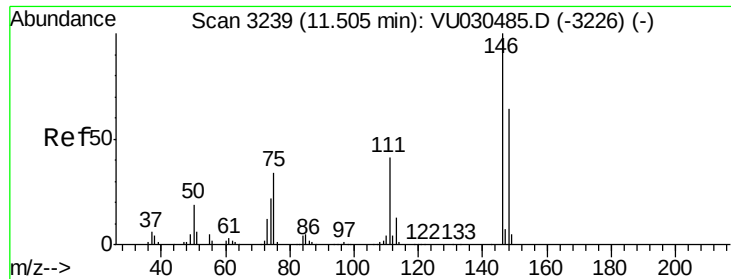
Tgt Ion:112 Resp: 796957  
Ion Ratio Lower Upper  
112 100  
114 32.4 21.5 39.9  
77 65.8 51.4 77.0



#62  
1,3-Dichlorobenzene  
Concen: 60.203 ug/L  
RT: 11.41 min Scan# 3211  
Delta R.T. 0.00 min  
Lab File: VU030493.D  
Acq: 27 Mar 2019 19:07

Tgt Ion:146 Resp: 360365  
Ion Ratio Lower Upper  
146 100  
111 42.1 29.2 54.2  
148 63.3 44.4 82.4

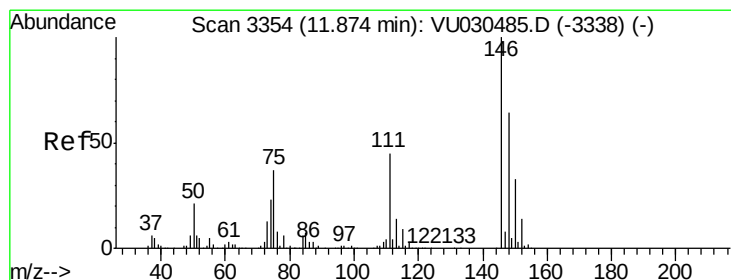
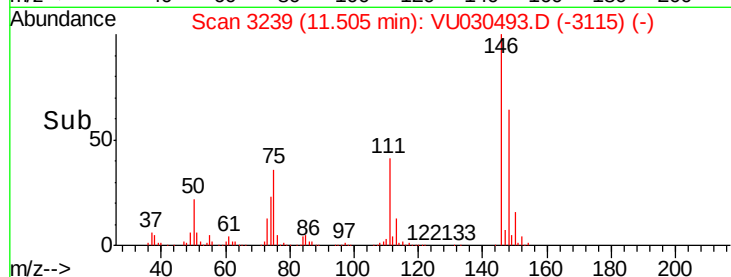
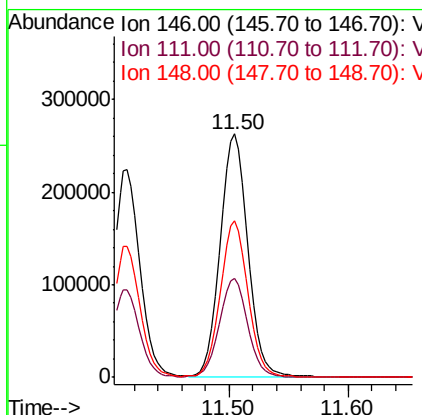
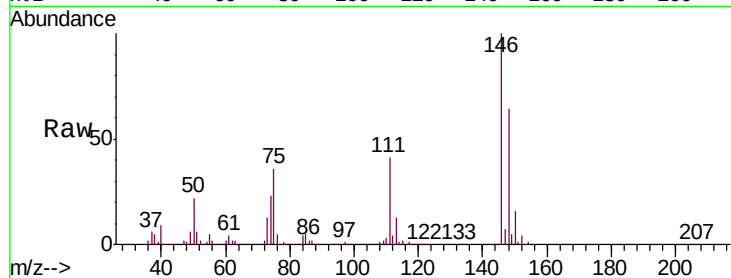




#63  
 1,4-Dichlorobenzene  
 Concen: 68.491 ug/L  
 RT: 11.50 min Scan# 3239  
 Delta R.T. 0.00 min  
 Lab File: VU030493.D  
 Acq: 27 Mar 2019 19:07

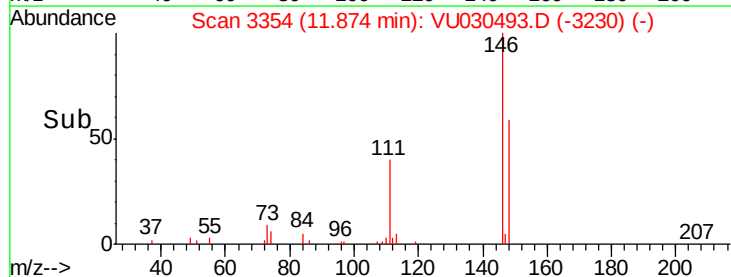
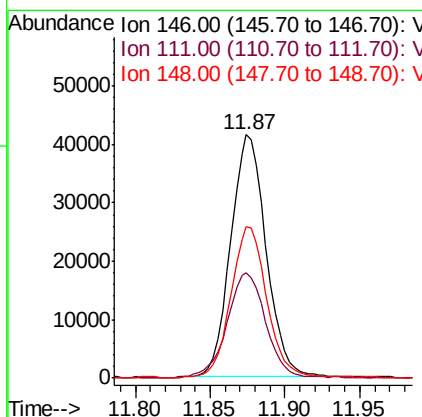
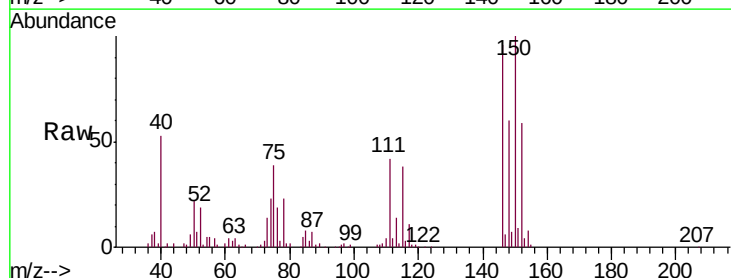
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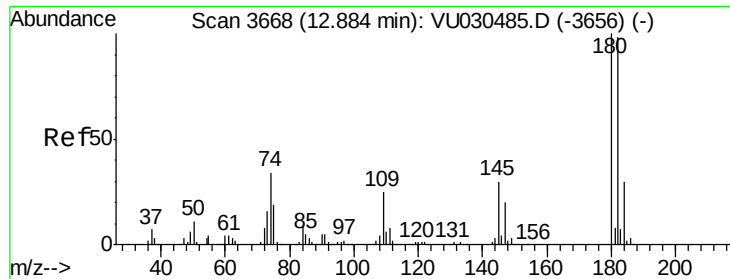
Tgt Ion:146 Resp: 422062  
 Ion Ratio Lower Upper  
 146 100  
 111 40.8 28.7 53.3  
 148 64.1 44.3 82.3



#65  
 1,2-Dichlorobenzene  
 Concen: 11.313 ug/L  
 RT: 11.87 min Scan# 3354  
 Delta R.T. 0.00 min  
 Lab File: VU030493.D  
 Acq: 27 Mar 2019 19:07

Tgt Ion:146 Resp: 68475  
 Ion Ratio Lower Upper  
 146 100  
 111 43.2 34.9 52.3  
 148 62.3 51.2 76.8

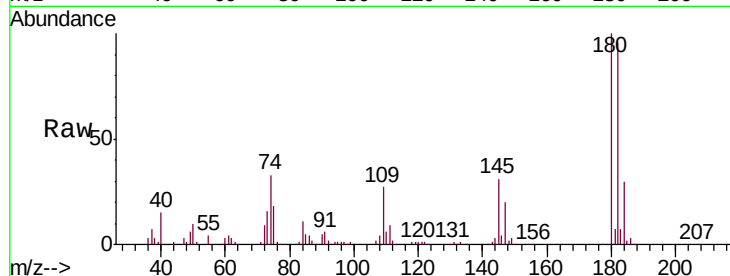




#67  
 1,3,5-Trichlorobenzene  
 Concen: 51.699 ug/L  
 RT: 13.50 min Scan# 3859  
 Delta R.T. 0.61 min  
 Lab File: VU030493.D  
 Acq: 27 Mar 2019 19:07

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C09C7RE

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 97.0  | 75.9  | 113.9 |
| 184     | 29.3  | 24.1  | 36.1  |
| 145     | 29.3  | 23.8  | 35.8  |



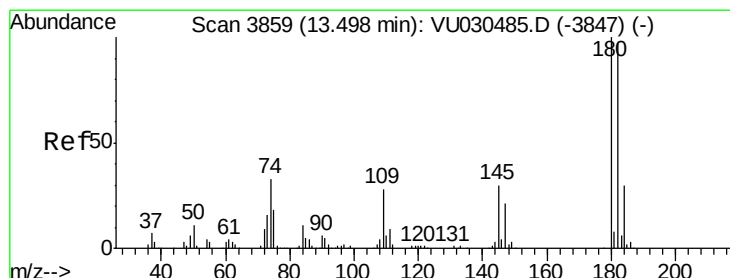
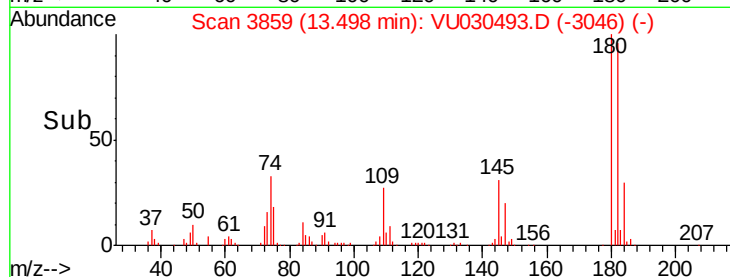
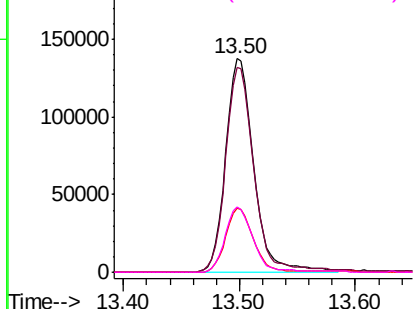
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

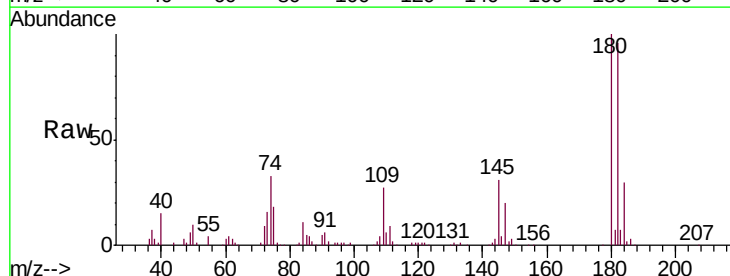
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68  
 1,2,4-trichlorobenzene  
 Concen: 59.501 ug/L  
 RT: 13.50 min Scan# 3859  
 Delta R.T. 0.00 min  
 Lab File: VU030493.D  
 Acq: 27 Mar 2019 19:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 97.0  | 76.1  | 114.1 |
| 145     | 29.3  | 24.5  | 36.7  |

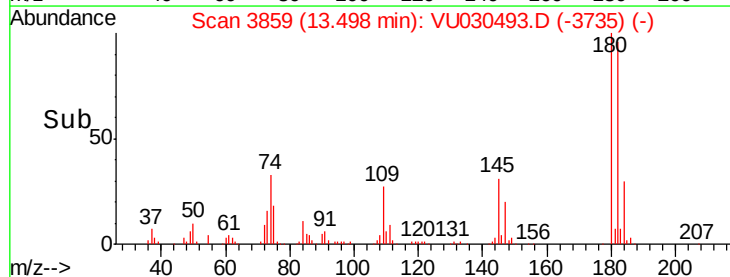
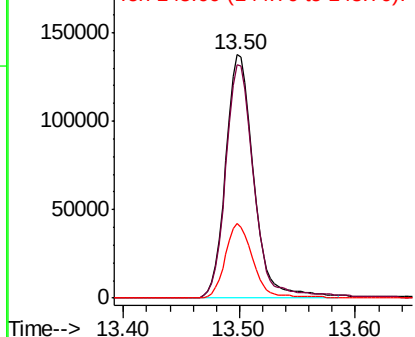


Abundance

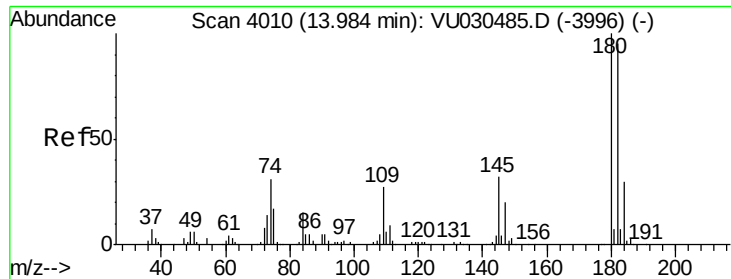
Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V







#70  
 1,2,3-Trichlorobenzene  
 Concen: 9.953 ug/L  
 RT: 13.98 min Scan# 4010  
 Delta R.T. 0.00 min  
 Lab File: VU030493.D  
 Acq: 27 Mar 2019 19:07

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C09C7RE

| Tgt Ion | Resp  | Ion Ratio | Lower | Upper |
|---------|-------|-----------|-------|-------|
| 180     | 40920 | 100       |       |       |
| 182     |       | 89.7      | 77.4  | 116.2 |
| 145     |       | 31.1      | 25.9  | 38.9  |

