

Data File : VU032804.D  
Acq On : 17 Jun 2019 23:33  
Operator : JC/SP  
Sample : K3363-01  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 35 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0JT5

Quant Time: Jun 18 02:46:31 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM061719WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Jun 18 02:39:23 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 229278   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.08  | 117  | 220536   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 110725   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 72534    | 46.29    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 92.58%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 60319    | 48.27    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 96.54%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 113066   | 35.82    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 71.64%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 135216   | 103.68   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 103.68% |
| 24) Chloroform-d               | 4.64    | 84    | 143561   | 47.13    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.26%  |
| 26) 1,2-Dichloroethane-d4      | 5.30    | 65    | 98920    | 48.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.50%  |
| 32) Benzene-d6                 | 5.33    | 84    | 287305   | 49.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.96%  |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 92432    | 50.47    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 100.94% |
| 41) Toluene-d8                 | 7.56    | 98    | 268169   | 49.81    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 99.62%  |
| 43) trans-1,3-Dichloropropene- | 7.84    | 79    | 44406    | 46.61    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 93.22%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 95818    | 112.05   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 112.05% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.42   | 84    | 134668   | 47.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 95.14%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.85   | 152   | 106971   | 49.92    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 99.84%  |

#### Target Compounds

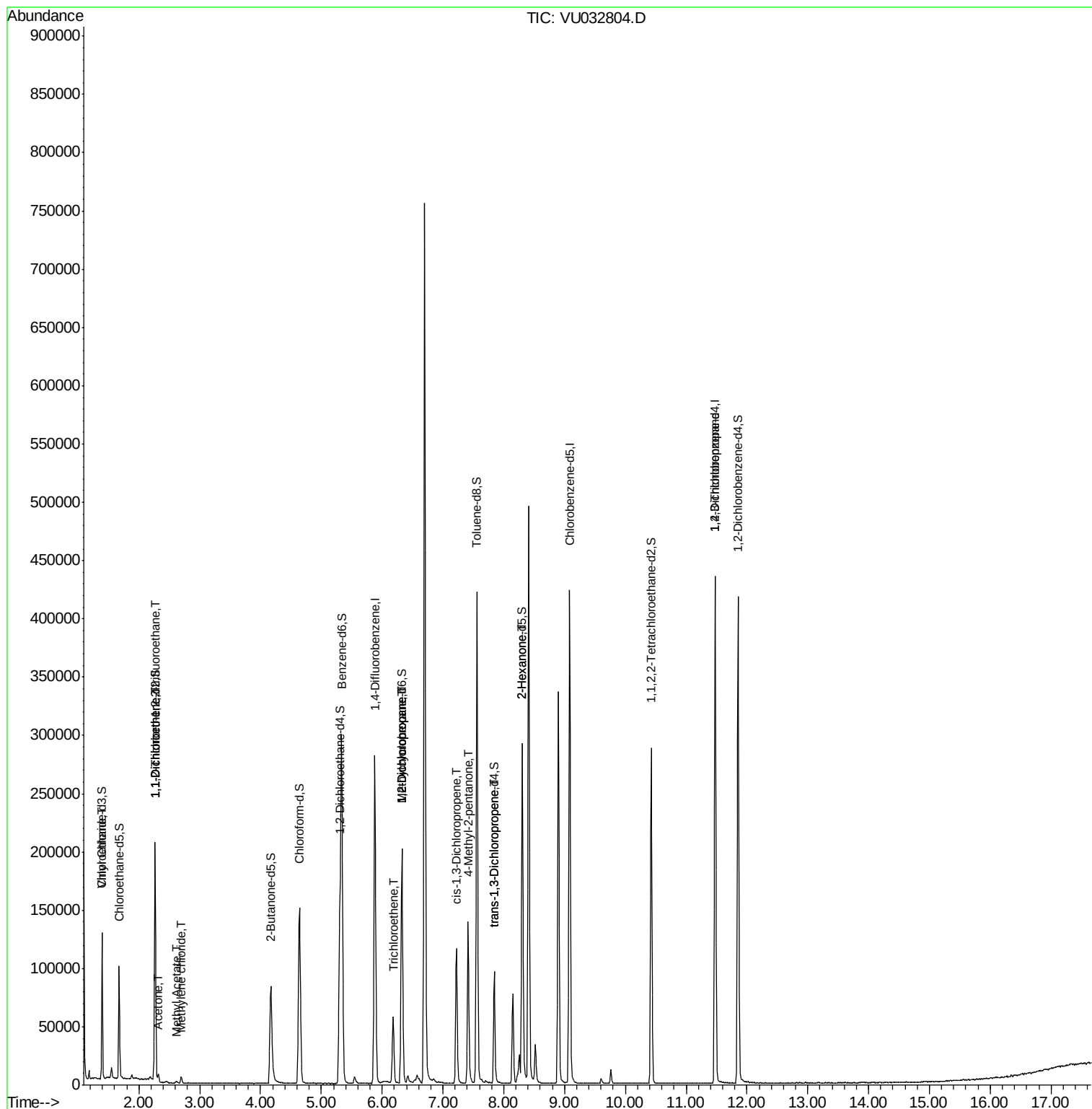
|                                |       |     |       |        |        | Qvalue |
|--------------------------------|-------|-----|-------|--------|--------|--------|
| 8) Chloroethane                | 1.40  | 64  | 1250  | 1.043  | ug/L # | 1      |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27  | 101 | 962   | 0.628  | ug/L # | 17     |
| 12) 1,1-Dichloroethene         | 2.27  | 96  | 939   | 0.650  | ug/L # | 1      |
| 13) Acetone                    | 2.32  | 43  | 5508  | 3.058  | ug/L   | 100    |
| 15) Methyl Acetate             | 2.62  | 43  | 1990  | 0.975  | ug/L # | 77     |
| 16) Methylene chloride         | 2.70  | 84  | 2188  | 1.291  | ug/L   | 95     |
| 34) Trichloroethene            | 6.18  | 95  | 18359 | 10.816 | ug/L   | 93     |
| 35) Methylcyclohexane          | 6.32  | 83  | 21335 | 8.131  | ug/L # | 19     |
| 37) 1,2-Dichloropropane        | 6.32  | 63  | 10707 | 6.144  | ug/L # | 88     |
| 39) cis-1,3-Dichloropropene    | 7.22  | 75  | 3136  | 1.155  | ug/L # | 72     |
| 40) 4-Methyl-2-pentanone       | 7.41  | 43  | 52065 | 18.713 | ug/L # | 53     |
| 44) trans-1,3-Dichloropropene  | 7.85  | 75  | 2388  | 0.936  | ug/L # | 81     |
| 48) 2-Hexanone                 | 8.31  | 43  | 17101 | 6.966  | ug/L # | 64     |
| 59) 1,2,3-Trichloropropane     | 11.48 | 75  | 14201 | 6.106  | ug/L # | 87     |

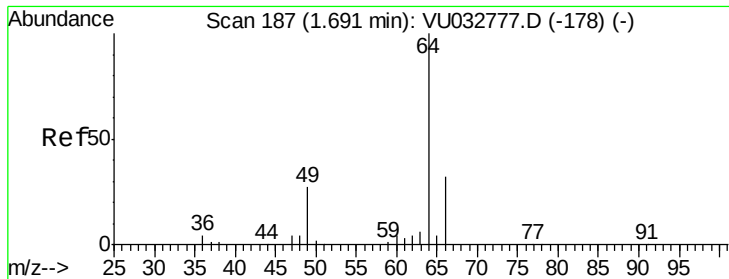
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Tue Jun 18 02:39:23 2019  
Response via : Initial Calibration





#8

Chloroethane

Concen: 1.043 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.30 min

Lab File: VU032804.D

Acq: 17 Jun 2019 23:33

Instrument :

MSVOA\_U

ClientSampleId :

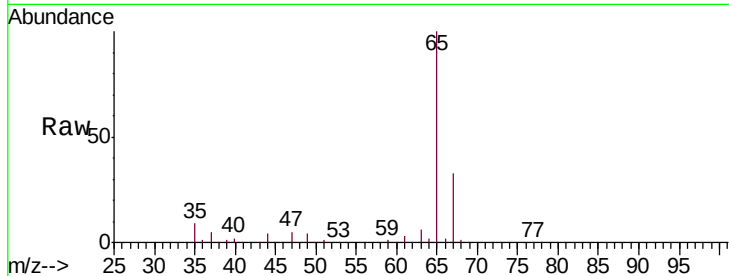
C0JT5

Tgt Ion: 64 Resp: 1250

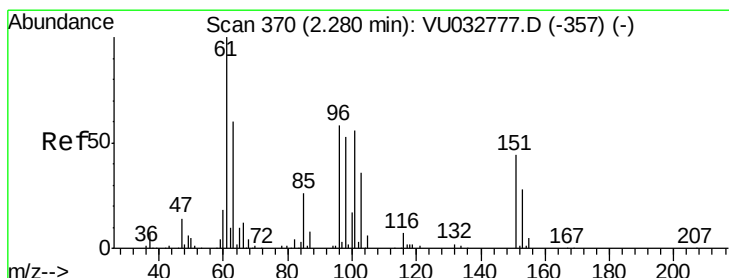
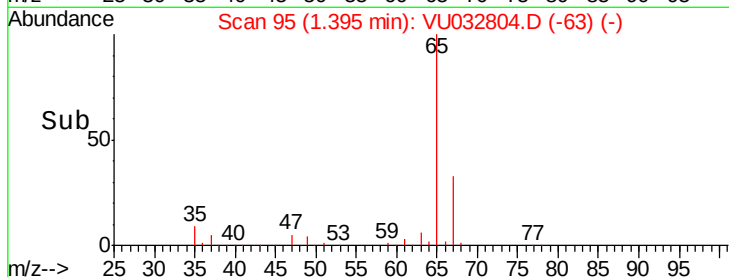
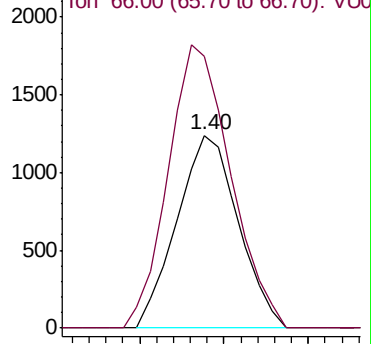
Ion Ratio Lower Upper

64 100

66 141.3 22.5 41.7#



Abundance Ion 64.00 (63.70 to 64.70): VU032777.D (-178) (-)



#10

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

Concen: 0.628 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.01 min

Lab File: VU032804.D

Acq: 17 Jun 2019 23:33

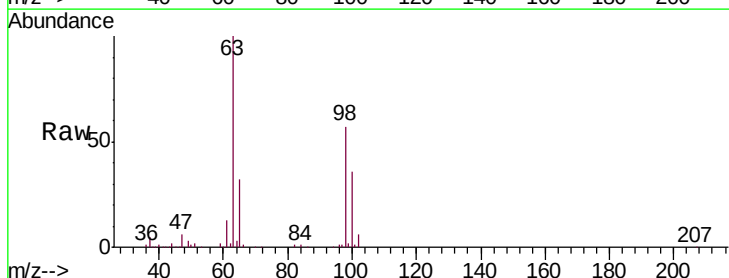
Tgt Ion: 101 Resp: 962

Ion Ratio Lower Upper

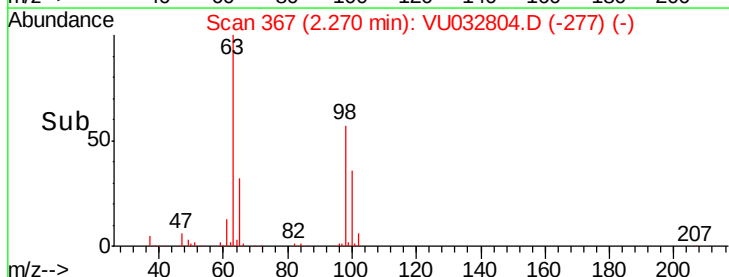
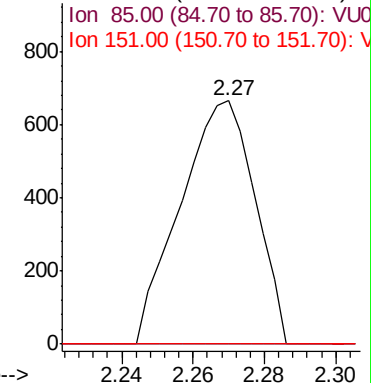
101 100

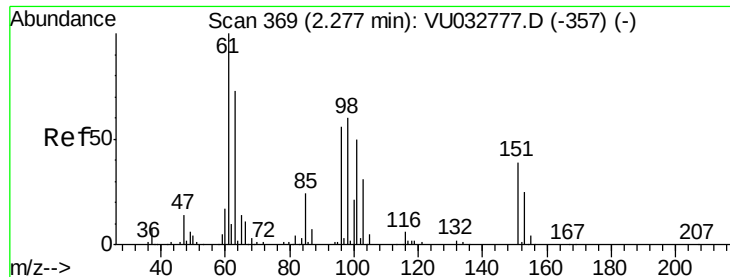
85 0.0 36.8 55.2#

151 0.0 63.6 95.4#



Abundance Ion 101.00 (100.70 to 101.70): VU032777.D (-357) (-)





#12

1,1-Dichloroethene

Concen: 0.650 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.01 min

Lab File: VU032804.D

Acq: 17 Jun 2019 23:33

Instrument :

MSVOA\_U

ClientSampleId :

C0JT5

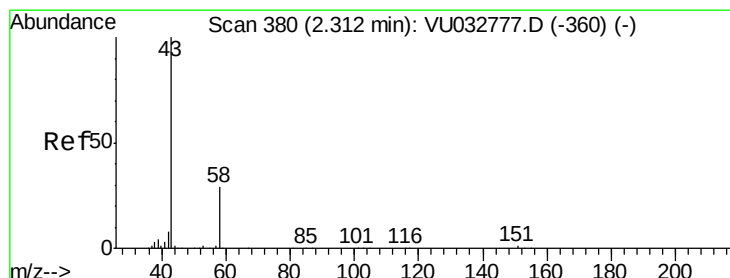
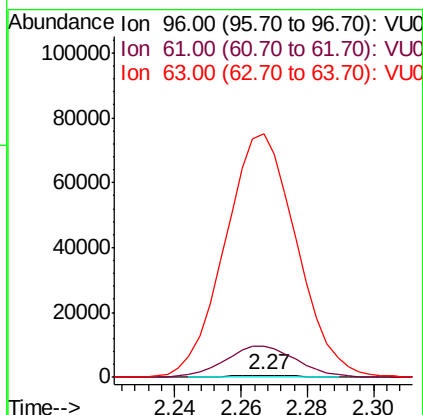
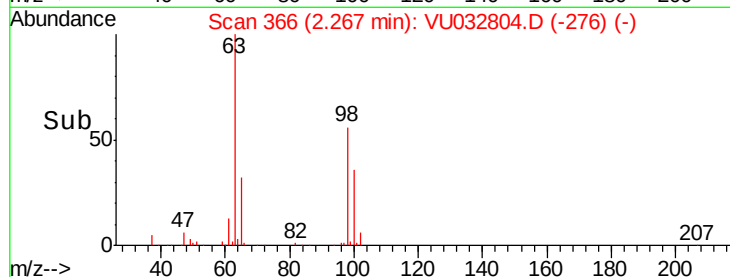
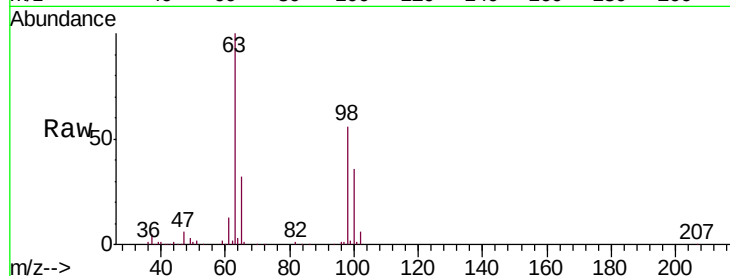
Tgt Ion: 96 Resp: 939

Ion Ratio Lower Upper

96 100

61 1466.7 131.0 243.4#

63 11509.2 101.0 187.6#



#13

Acetone

Concen: 3.058 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.01 min

Lab File: VU032804.D

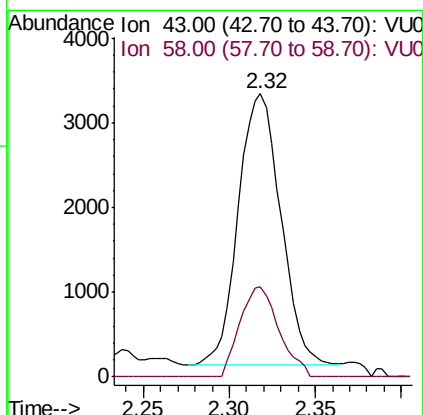
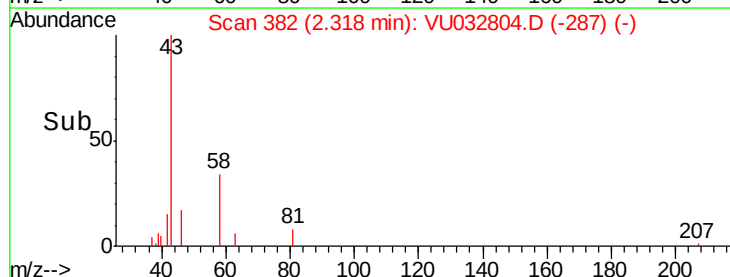
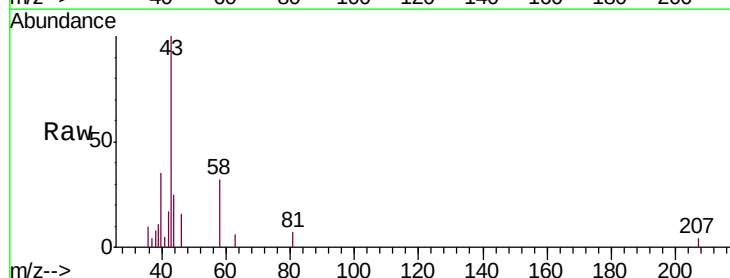
Acq: 17 Jun 2019 23:33

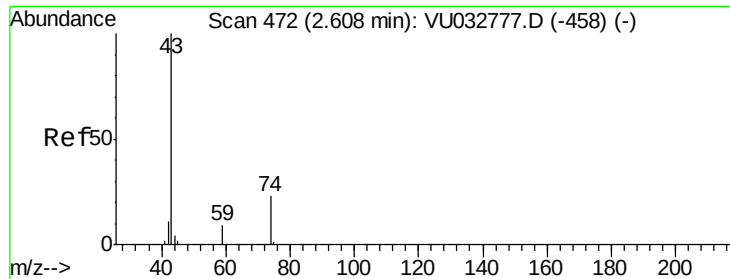
Tgt Ion: 43 Resp: 5508

Ion Ratio Lower Upper

43 100

58 30.3 0.0 60.6

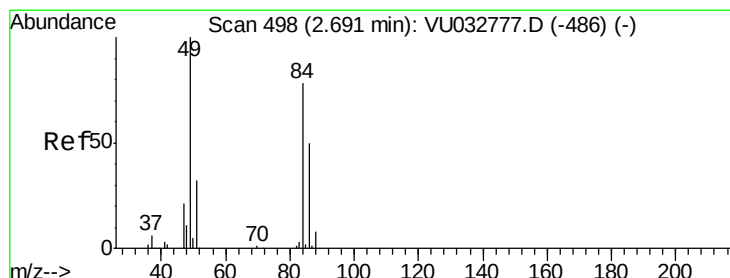
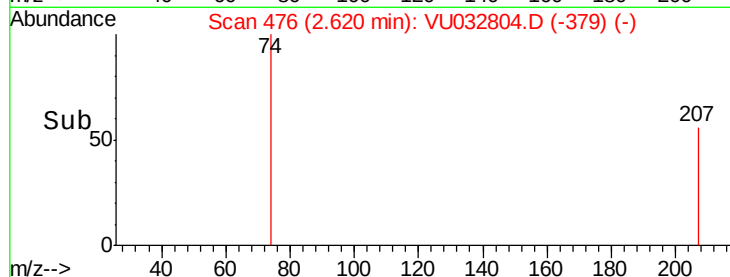
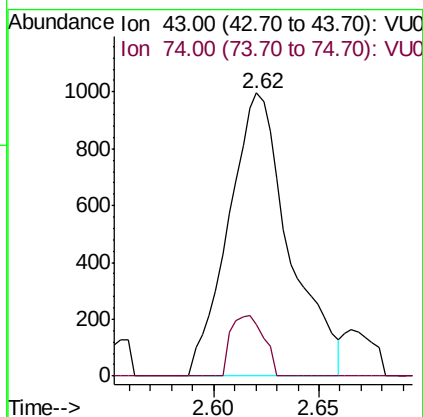
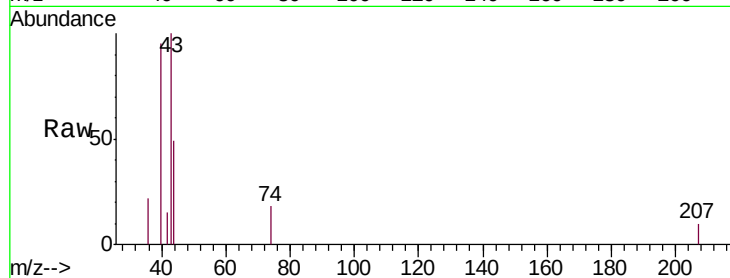




#15  
Methyl Acetate  
Concen: 0.975 ug/L  
RT: 2.62 min Scan# 476  
Delta R.T. 0.01 min  
Lab File: VU032804.D  
Acq: 17 Jun 2019 23:33

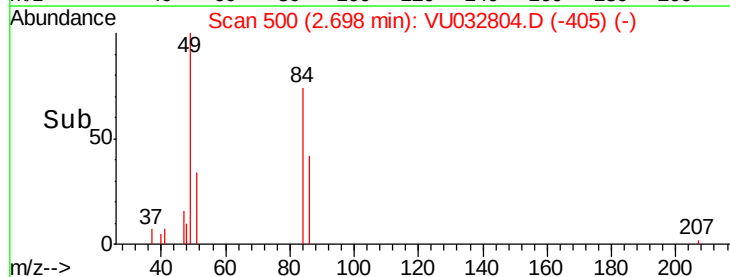
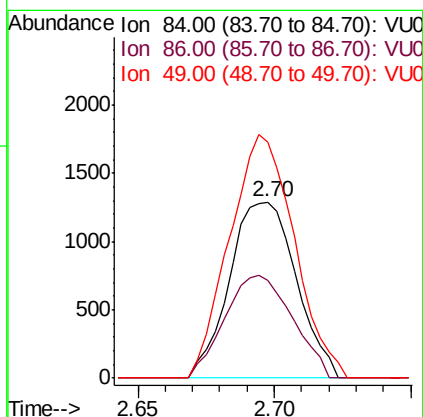
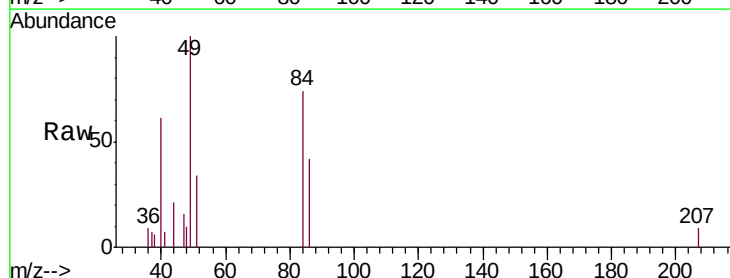
Instrument :  
MSVOA\_U  
ClientSampled :  
C0JT5

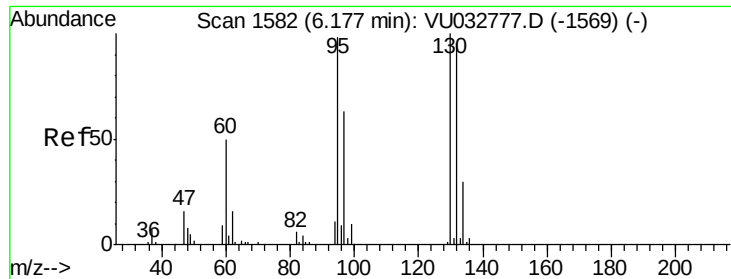
Tgt Ion: 43 Resp: 1990  
Ion Ratio Lower Upper  
43 100  
74 11.5 18.1 27.1#



#16  
Methylene chloride  
Concen: 1.291 ug/L  
RT: 2.70 min Scan# 500  
Delta R.T. 0.01 min  
Lab File: VU032804.D  
Acq: 17 Jun 2019 23:33

Tgt Ion: 84 Resp: 2188  
Ion Ratio Lower Upper  
84 100  
86 55.8 45.5 84.5  
49 134.2 92.1 171.1





#34

Trichloroethene

Concen: 10.816 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU032804.D

Acq: 17 Jun 2019 23:33

Instrument :

MSVOA\_U

ClientSampleId :

C0JT5

Tgt Ion: 95 Resp: 18359

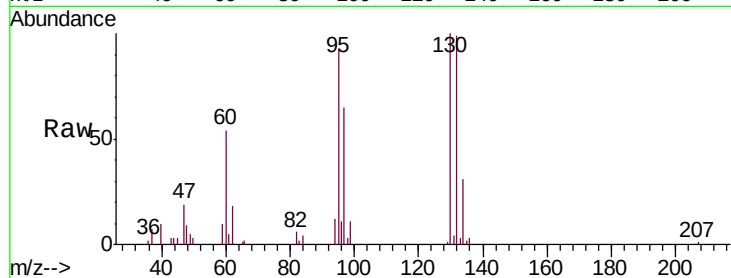
Ion Ratio Lower Upper

95 100

97 69.4 45.9 85.3

132 105.9 68.5 127.3

130 107.3 70.8 131.4

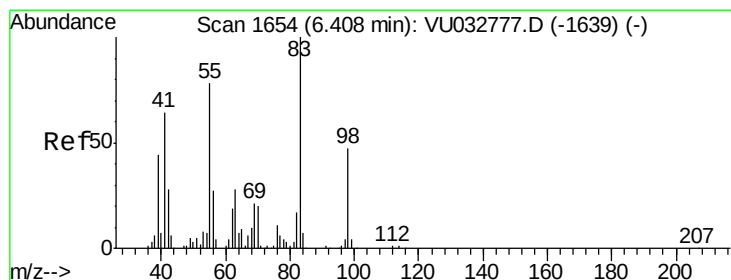
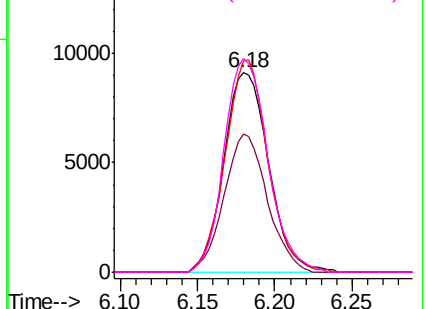
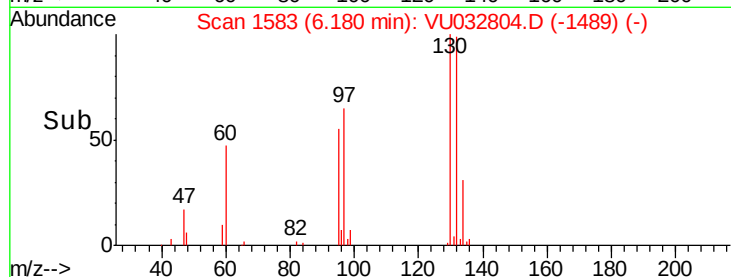


Abundance Ion 95.00 (94.70 to 95.70): VU032804.D (-1489) (-)

Ion 97.00 (96.70 to 97.70): VU032804.D (-1489) (-)

Ion 132.00 (131.70 to 132.70): VU032804.D (-1489) (-)

Ion 130.00 (129.70 to 130.70): VU032804.D (-1489) (-)



#35

Methylcyclohexane

Concen: 8.131 ug/L

RT: 6.32 min Scan# 1628

Delta R.T. -0.08 min

Lab File: VU032804.D

Acq: 17 Jun 2019 23:33

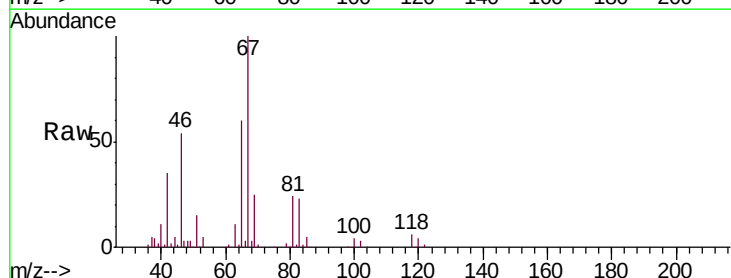
Tgt Ion: 83 Resp: 21335

Ion Ratio Lower Upper

83 100

55 0.4 62.6 94.0#

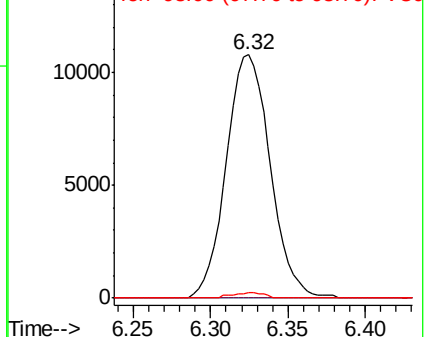
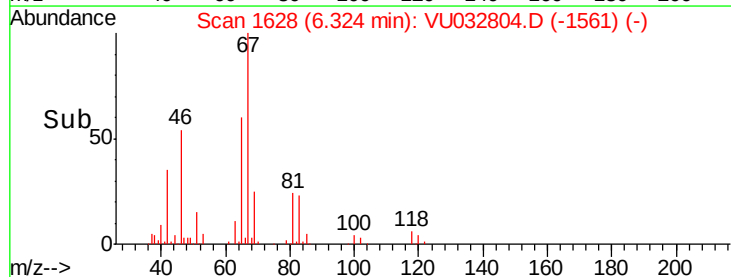
98 1.6 37.4 56.0#

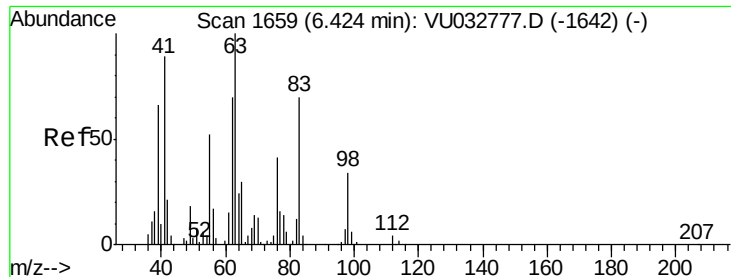


Abundance Ion 83.00 (82.70 to 83.70): VU032804.D (-1561) (-)

Ion 55.00 (54.70 to 55.70): VU032804.D (-1561) (-)

Ion 98.00 (97.70 to 98.70): VU032804.D (-1561) (-)

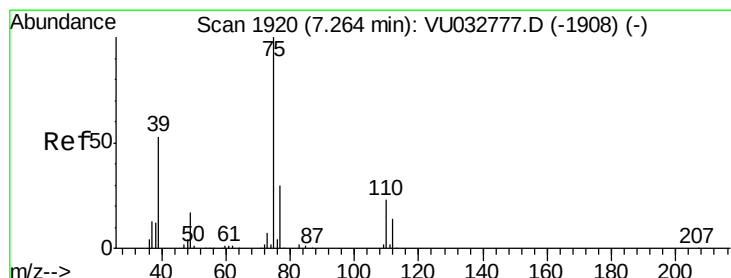
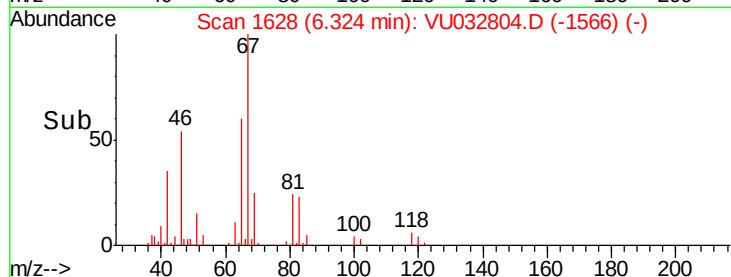
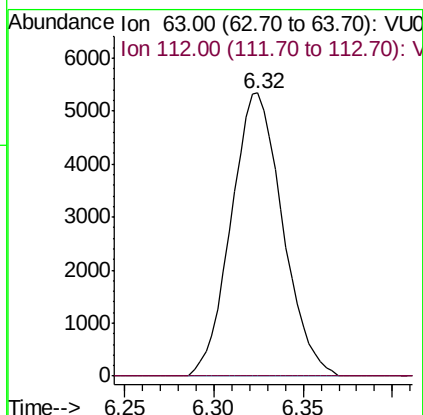
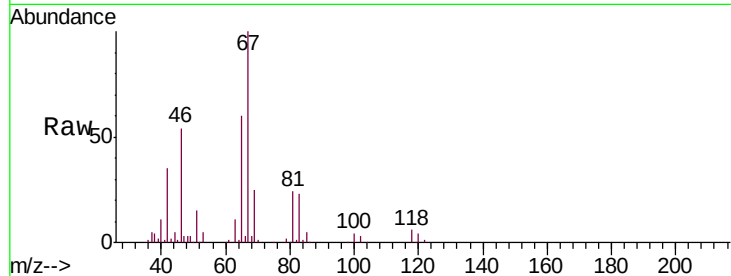




#37  
 1,2-Dichloropropane  
 Concen: 6.144 ug/L  
 RT: 6.32 min Scan# 1628  
 Delta R.T. -0.10 min  
 Lab File: VU032804.D  
 Acq: 17 Jun 2019 23:33

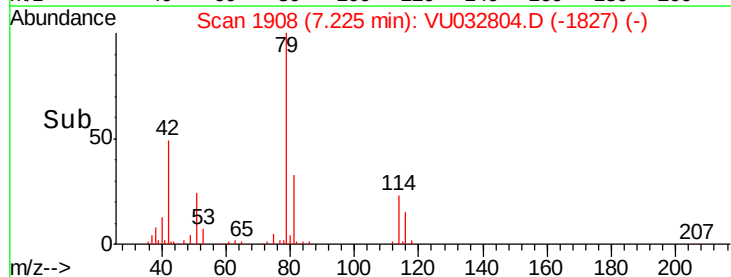
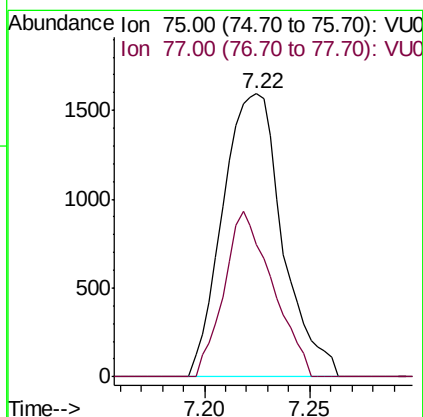
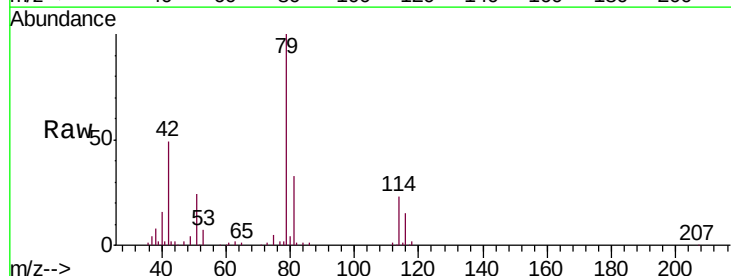
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0JT5

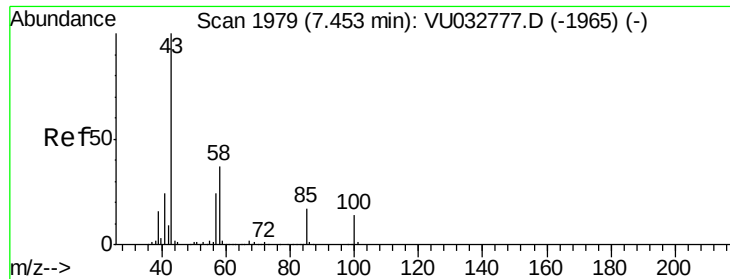
Tgt Ion: 63 Resp: 10707  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.0 4.6#



#39  
 cis-1,3-Dichloropropene  
 Concen: 1.155 ug/L  
 RT: 7.22 min Scan# 1908  
 Delta R.T. -0.04 min  
 Lab File: VU032804.D  
 Acq: 17 Jun 2019 23:33

Tgt Ion: 75 Resp: 3136  
 Ion Ratio Lower Upper  
 75 100  
 77 46.8 21.9 40.7#





#40

4-Methyl-2-pentanone

Concen: 18.713 ug/L

RT: 7.41 min Scan# 1967

Delta R.T. -0.04 min

Lab File: VU032804.D

Acq: 17 Jun 2019 23:33

Instrument :

MSVOA\_U

ClientSampleId :

C0JT5

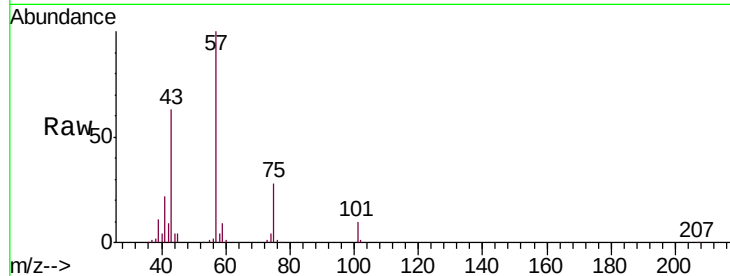
Tgt Ion: 43 Resp: 52065

Ion Ratio Lower Upper

43 100

58 6.2 29.4 44.2#

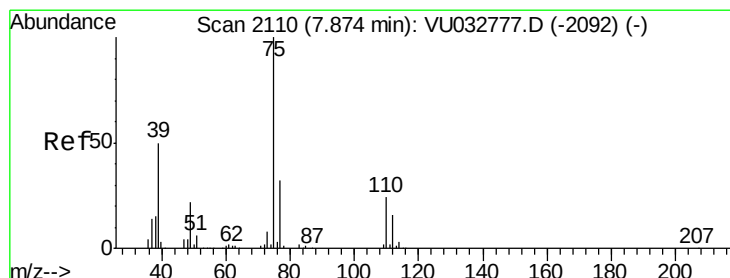
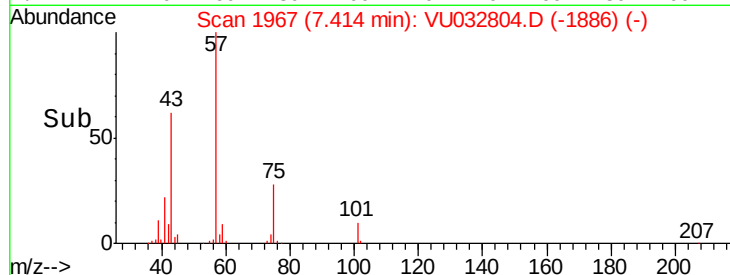
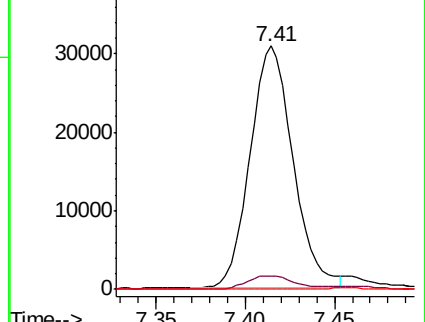
100 0.0 11.2 16.8#



Abundance Ion 43.00 (42.70 to 43.70): VU032804.D (-1965) (-)

Ion 58.00 (57.70 to 58.70): VU032804.D (-1965) (-)

Ion 100.00 (99.70 to 100.70): VU032804.D (-1965) (-)



#44

trans-1,3-Dichloropropene

Concen: 0.936 ug/L

RT: 7.85 min Scan# 2101

Delta R.T. -0.03 min

Lab File: VU032804.D

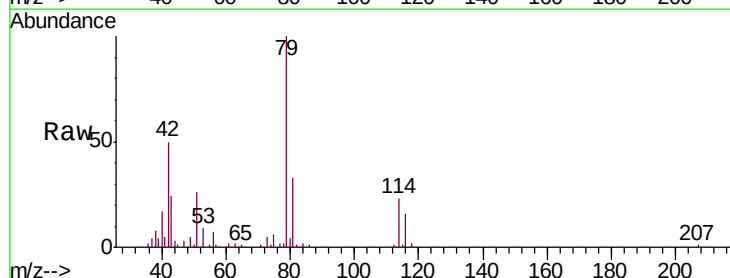
Acq: 17 Jun 2019 23:33

Tgt Ion: 75 Resp: 2388

Ion Ratio Lower Upper

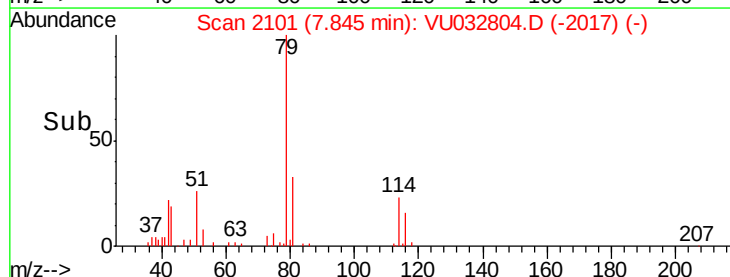
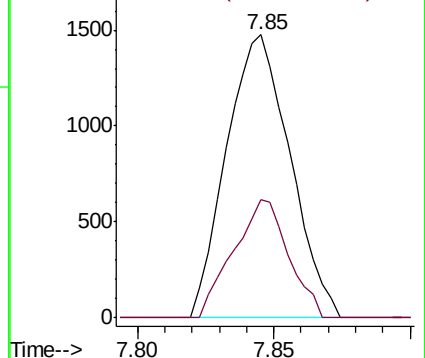
75 100

77 41.8 21.8 40.4#

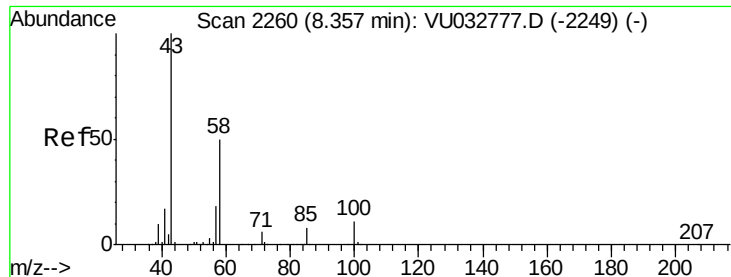


Abundance Ion 75.00 (74.70 to 75.70): VU032804.D (-2101) (-)

Ion 77.00 (76.70 to 77.70): VU032804.D (-2101) (-)



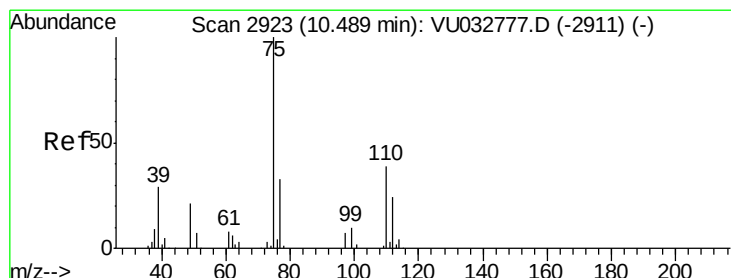
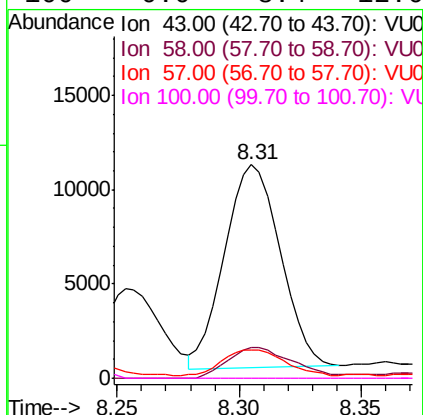
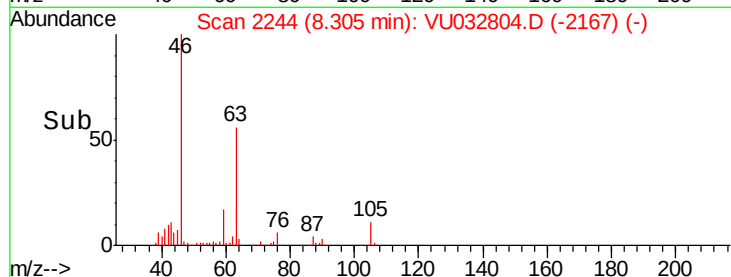
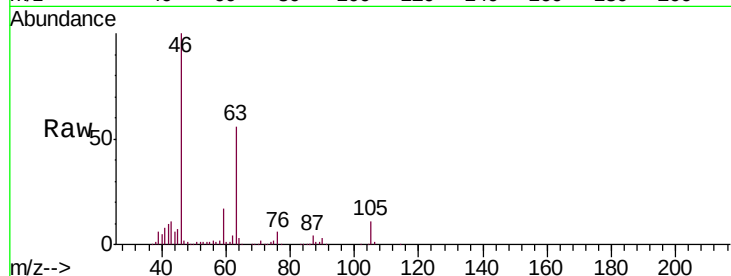




#48  
2-Hexanone  
Concen: 6.966 ug/L  
RT: 8.31 min Scan# 2244  
Delta R.T. -0.05 min  
Lab File: VU032804.D  
Acq: 17 Jun 2019 23:33

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0JT5

Tgt Ion: 43 Resp: 17101  
Ion Ratio Lower Upper  
43 100  
58 17.6 40.2 60.2#  
57 13.4 14.2 21.4#  
100 0.0 8.4 12.6#



#59  
1,2,3-Trichloropropane  
Concen: 6.106 ug/L  
RT: 11.48 min Scan# 3231  
Delta R.T. 0.99 min  
Lab File: VU032804.D  
Acq: 17 Jun 2019 23:33

Tgt Ion: 75 Resp: 14201  
Ion Ratio Lower Upper  
75 100  
77 39.2 25.5 38.3#

