

Data File : VU032537.D  
Acq On : 07 Jun 2019 12:41  
Operator : JC/SP  
Sample : K3215-05DL 50X  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
DB8H9DL

Quant Time: Jun 07 22:23:16 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM060619WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Jun 07 22:19:39 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 207161   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.08  | 117  | 192378   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 101177   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 75203    | 55.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 111.90% |
| 7) Chloroethane-d5             | 1.68    | 69    | 57512    | 53.25    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 106.50% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 107918   | 41.01    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 82.02%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 116196   | 103.31   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 103.31% |
| 24) Chloroform-d               | 4.64    | 84    | 125359   | 50.01    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.02% |
| 26) 1,2-Dichloroethane-d4      | 5.30    | 65    | 84492    | 53.51    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 107.02% |
| 32) Benzene-d6                 | 5.33    | 84    | 268259   | 53.71    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 107.42% |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 84463    | 53.93    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 107.86% |
| 41) Toluene-d8                 | 7.56    | 98    | 251022   | 53.01    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 106.02% |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 38667    | 51.59    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 103.18% |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 84412    | 111.12   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 111.12% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 120649   | 53.17    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 106.34% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 103865   | 53.60    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 107.20% |

#### Target Compounds

|                                |      |     |        |              | Qvalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.26 | 101 | 954    | 0.754 ug/L # | 18     |
| 12) 1,1-Dichloroethene         | 2.27 | 96  | 986    | 0.802 ug/L # | 1      |
| 13) Acetone                    | 2.32 | 43  | 163421 | 140.813 ug/L | 100    |
| 16) Methylene chloride         | 2.69 | 84  | 1667   | 1.188 ug/L   | 96     |
| 19) 1,1-Dichloroethane         | 3.45 | 63  | 1747   | 0.719 ug/L   | 98     |
| 30) 1,1,1-Trichloroethane      | 4.91 | 97  | 1728   | 0.793 ug/L   | 92     |
| 33) Benzene                    | 5.39 | 78  | 7220   | 1.336 ug/L   | 100    |
| 34) Trichloroethene            | 6.19 | 95  | 2753   | 1.872 ug/L   | 97     |
| 39) cis-1,3-Dichloropropene    | 7.22 | 75  | 2589   | 1.145 ug/L # | 62     |
| 40) 4-Methyl-2-pentanone       | 7.46 | 43  | 48829  | 21.183 ug/L  | 99     |
| 42) Toluene                    | 7.63 | 91  | 35746  | 6.039 ug/L   | 100    |
| 44) trans-1,3-Dichloropropene  | 7.85 | 75  | 1890   | 0.942 ug/L # | 72     |
| 46) Tetrachloroethene          | 8.23 | 164 | 534    | 0.440 ug/L   | 80     |
| 48) 2-Hexanone                 | 8.36 | 43  | 10816  | 5.713 ug/L # | 92     |
| 52) Ethylbenzene               | 9.25 | 91  | 6869   | 1.041 ug/L   | 98     |
| 53) m,p-Xylene                 | 9.37 | 106 | 9315   | 3.713 ug/L   | 94     |
| 54) o-xylene                   | 9.77 | 106 | 8281   | 3.324 ug/L   | 100    |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU060719\  
Quantitation Report (Not Reviewed)

Data File : VU032537.D  
Acq On : 07 Jun 2019 12:41  
Operator : JC/SP  
Sample : K3215-05DL 50X  
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ALS Vial : 9 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
DB8H9DL

Quant Time: Jun 07 22:23:16 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM060619WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Jun 07 22:19:39 2019  
Response via : Initial Calibration

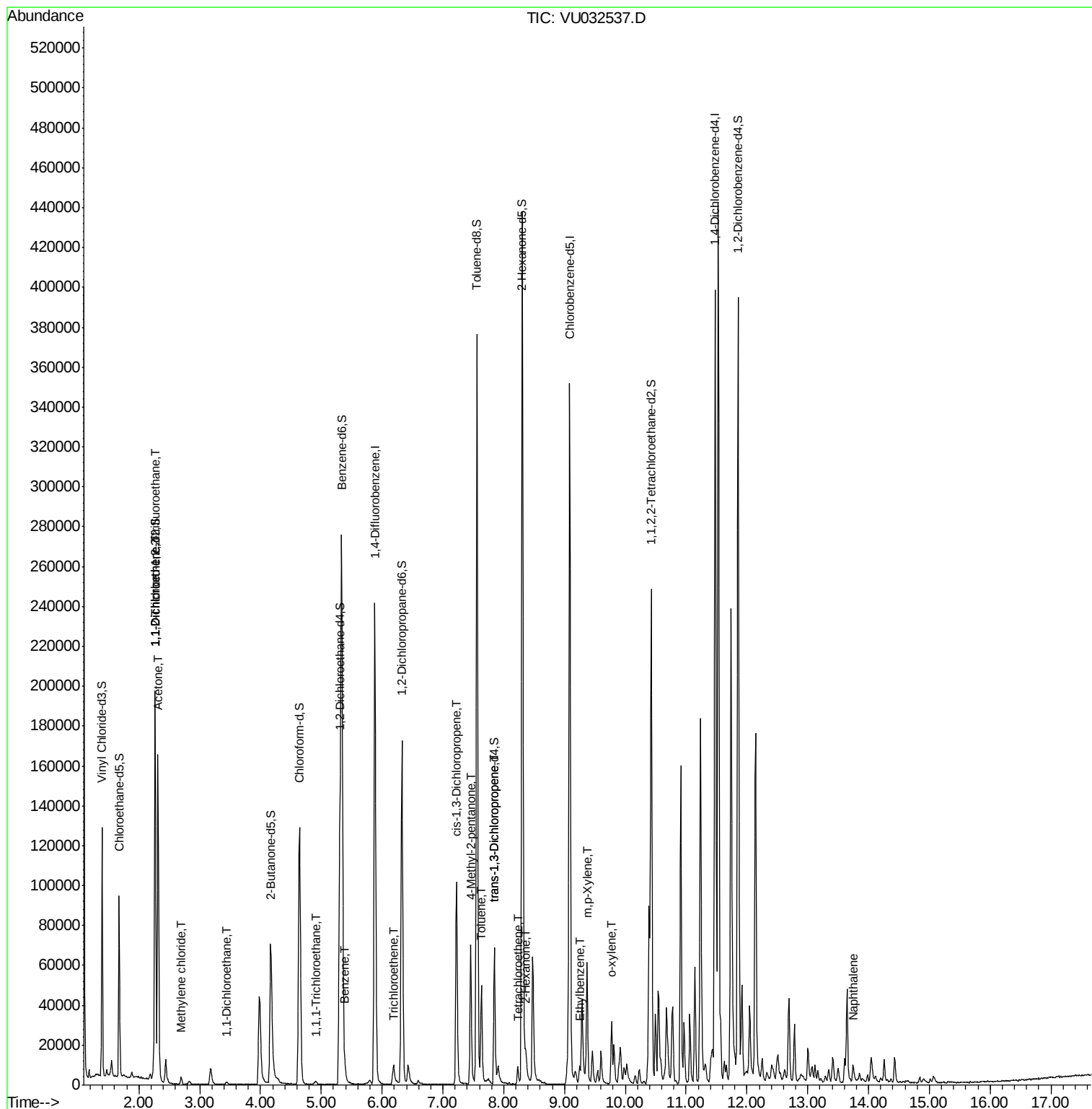
| Internal Standards | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------|-------|------|----------|-------|-------|----------|
| 69) Naphthalene    | 13.75 | 128  | 8973     | 1.410 | ug/L  | 96       |

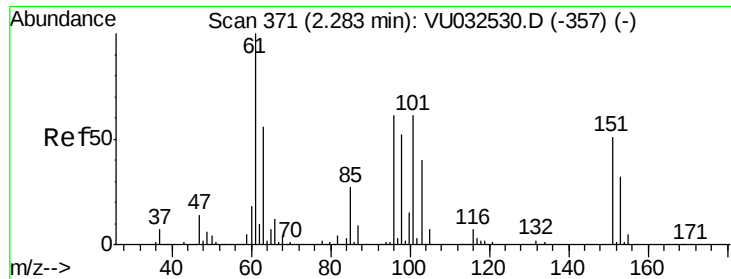
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 07 22:23:16 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM060619WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Jun 07 22:19:39 2019  
Response via : Initial Calibration





#10

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

Concen: 0.754 ug/L

RT: 2.26 min Scan# 365

Delta R.T. -0.02 min

Lab File: VU032537.D

Acq: 07 Jun 2019 12:41

Instrument :

MSVOA\_U

ClientSampleId :

DB8H9DL

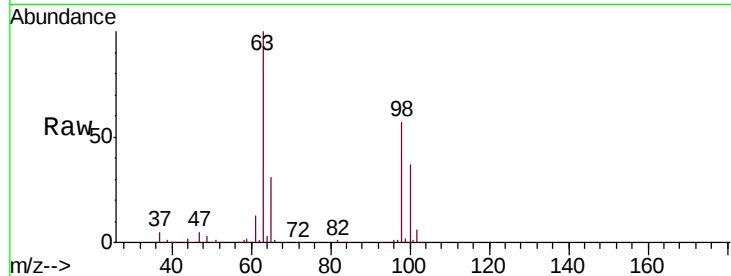
Tgt Ion: 101 Resp: 954

Ion Ratio Lower Upper

101 100

85 0.0 36.1 54.1#

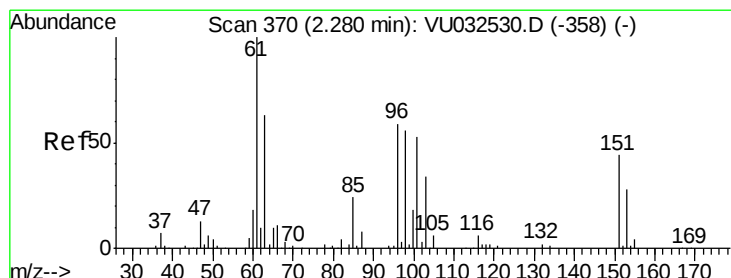
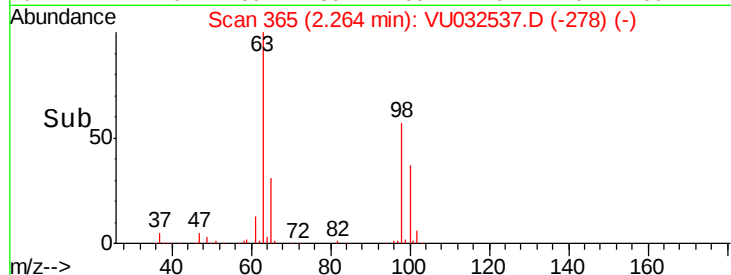
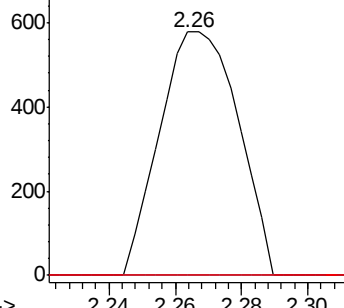
151 0.0 63.0 94.4#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.802 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.01 min

Lab File: VU032537.D

Acq: 07 Jun 2019 12:41

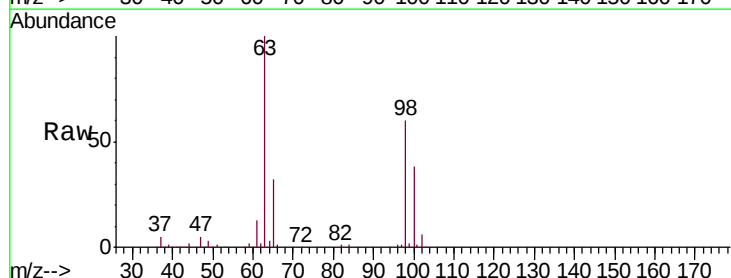
Tgt Ion: 96 Resp: 986

Ion Ratio Lower Upper

96 100

61 1303.2 129.5 240.5#

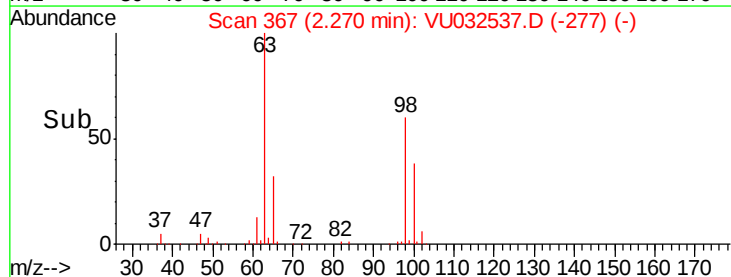
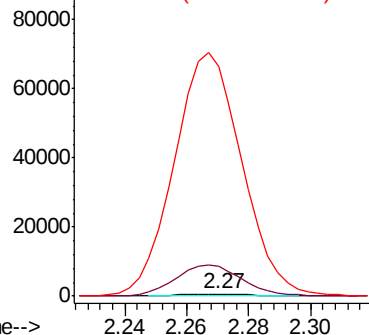
63 10223.7 103.4 192.0#

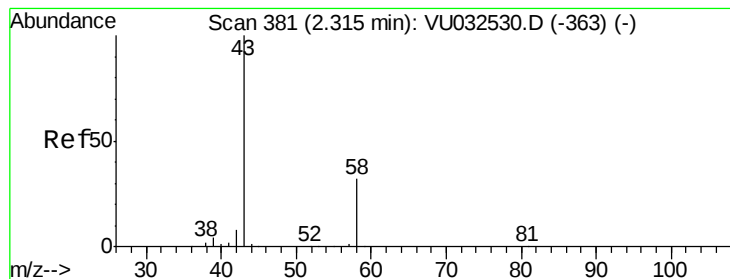


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 140.813 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VU032537.D

Acq: 07 Jun 2019 12:41

Instrument :

MSVOA\_U

ClientSampleId :

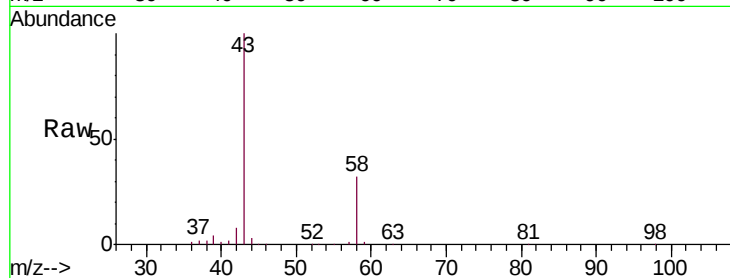
DB8H9DL

Tgt Ion: 43 Resp: 163421

Ion Ratio Lower Upper

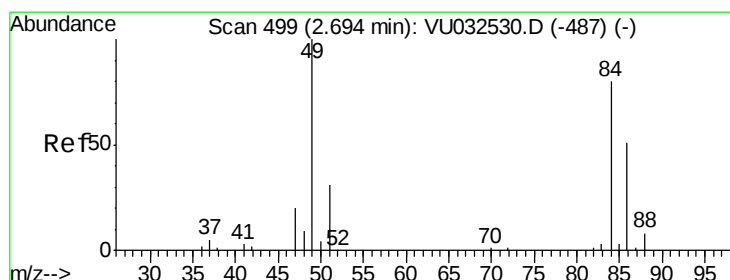
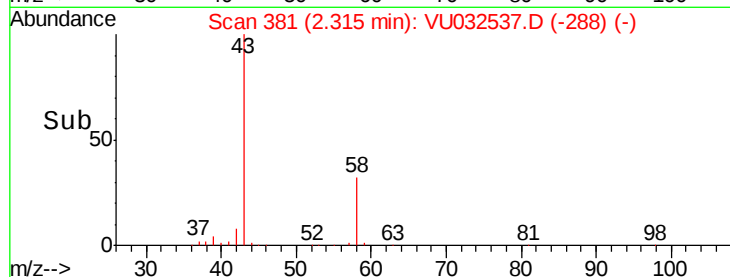
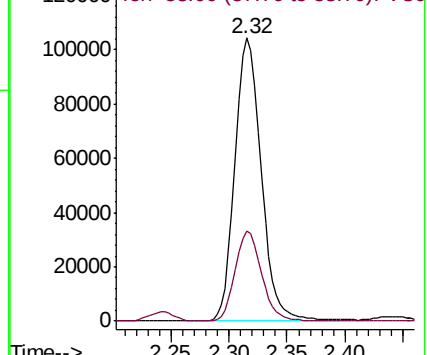
43 100

58 32.0 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VU032537.D (-288) (-)

Ion 58.00 (57.70 to 58.70): VU032537.D (-288) (-)



#16

Methylene chloride

Concen: 1.188 ug/L

RT: 2.69 min Scan# 499

Delta R.T. 0.00 min

Lab File: VU032537.D

Acq: 07 Jun 2019 12:41

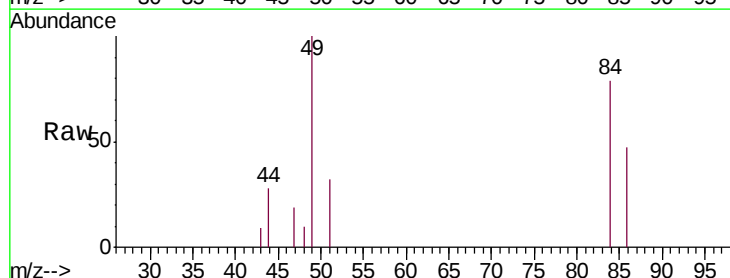
Tgt Ion: 84 Resp: 1667

Ion Ratio Lower Upper

84 100

86 59.5 44.7 82.9

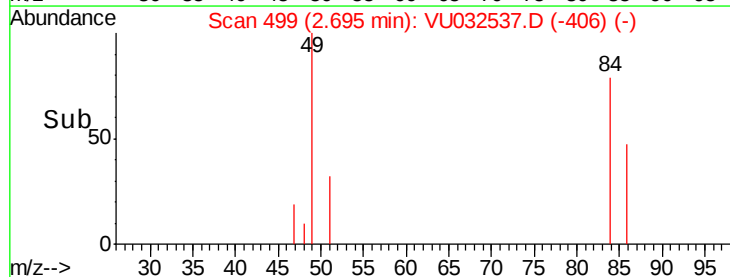
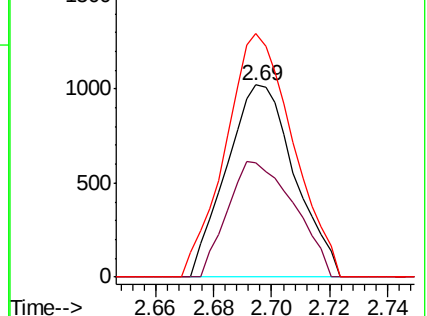
49 126.9 86.1 159.9

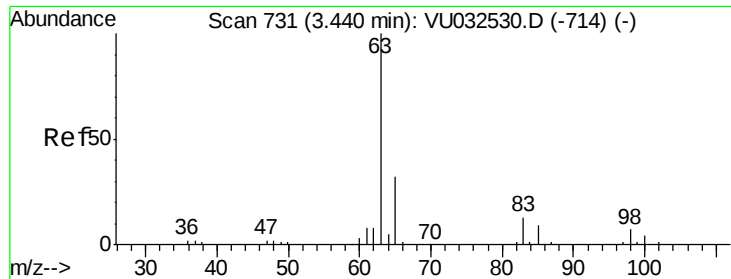


Abundance Ion 84.00 (83.70 to 84.70): VU032537.D (-406) (-)

Ion 86.00 (85.70 to 86.70): VU032537.D (-406) (-)

Ion 49.00 (48.70 to 49.70): VU032537.D (-406) (-)

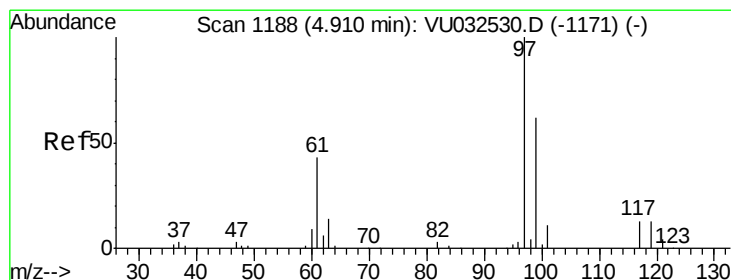
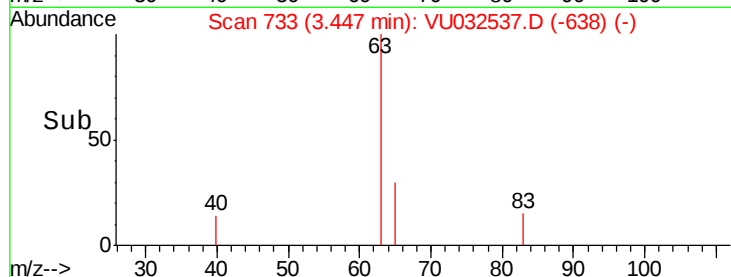
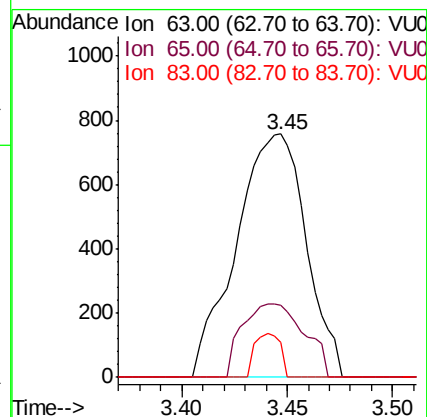
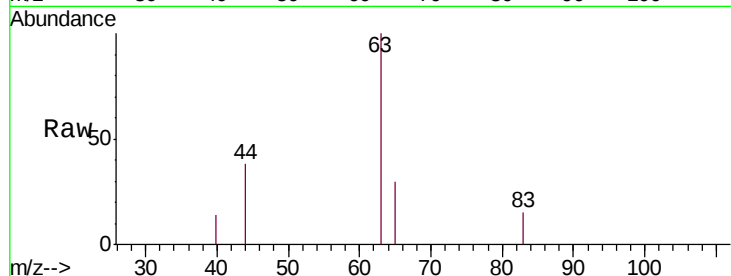




#19  
 1,1-Dichloroethane  
 Concen: 0.719 ug/L  
 RT: 3.45 min Scan# 733  
 Delta R.T. 0.01 min  
 Lab File: VU032537.D  
 Acq: 07 Jun 2019 12:41

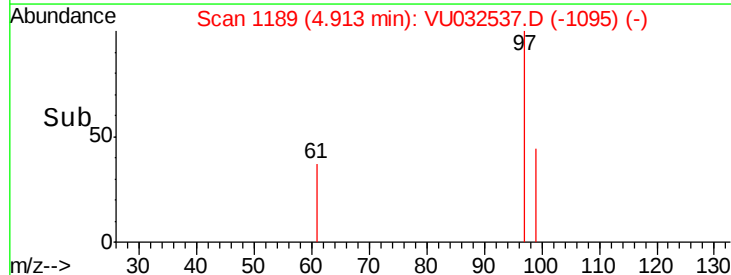
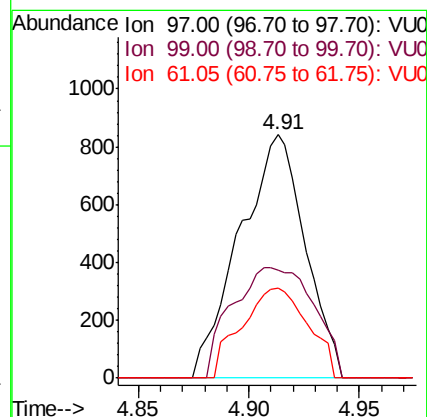
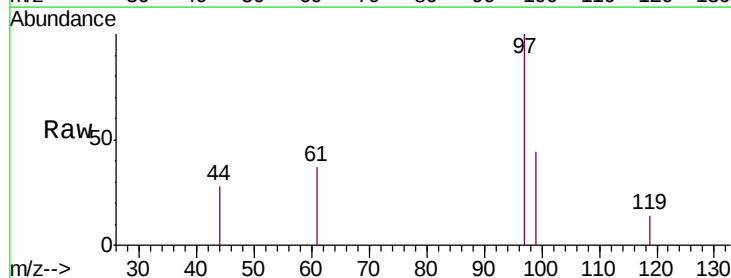
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB8H9DL

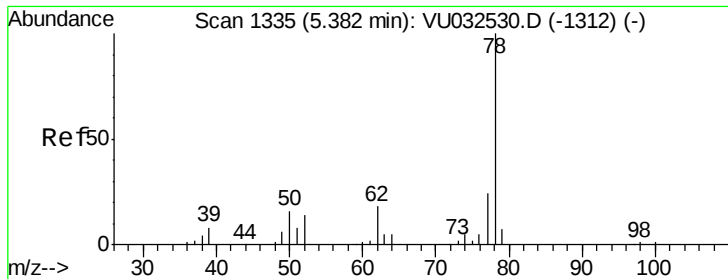
Tgt Ion: 63 Resp: 1747  
 Ion Ratio Lower Upper  
 63 100  
 65 29.7 21.8 40.6  
 83 14.5 9.8 18.2



#30  
 1,1,1-Trichloroethane  
 Concen: 0.793 ug/L  
 RT: 4.91 min Scan# 1189  
 Delta R.T. 0.00 min  
 Lab File: VU032537.D  
 Acq: 07 Jun 2019 12:41

Tgt Ion: 97 Resp: 1728  
 Ion Ratio Lower Upper  
 97 100  
 99 56.8 50.5 75.7  
 61 37.6 33.8 50.6





#33

Benzene

Concen: 1.336 ug/L

RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU032537.D

Acq: 07 Jun 2019 12:41

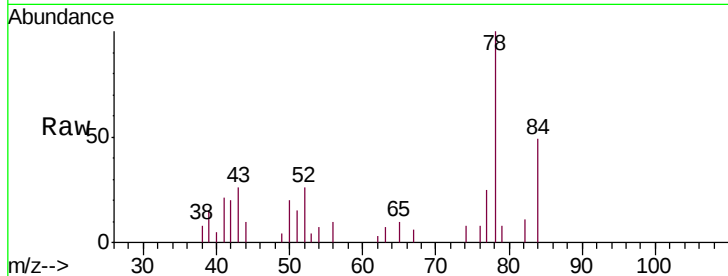
Instrument :

MSVOA\_U

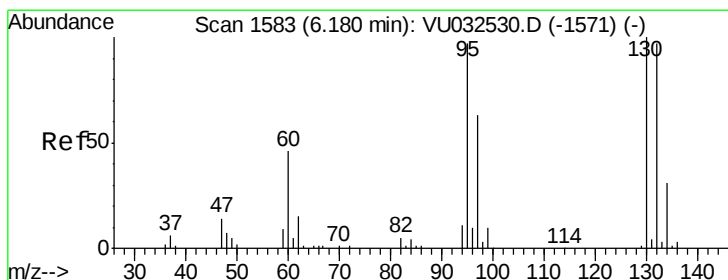
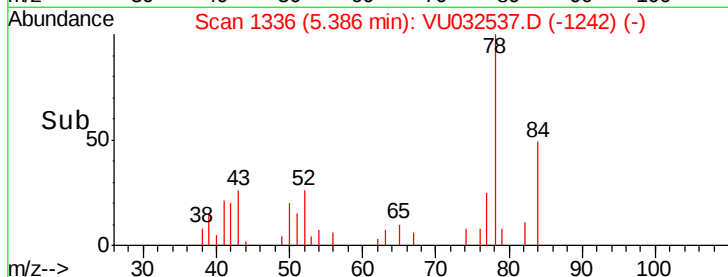
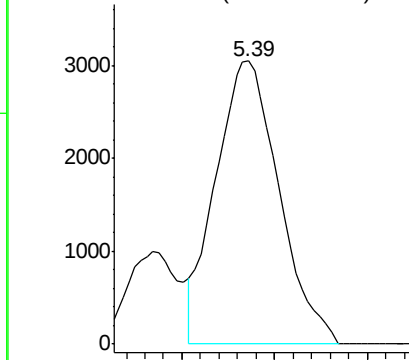
ClientSampleID :

DB8H9DL

Tgt Ion: 78 Resp: 7220



Abundance Ion 78.00 (77.70 to 78.70): VU0



#34

Trichloroethene

Concen: 1.872 ug/L

RT: 6.19 min Scan# 1586

Delta R.T. 0.01 min

Lab File: VU032537.D

Acq: 07 Jun 2019 12:41

Tgt Ion: 95 Resp: 2753

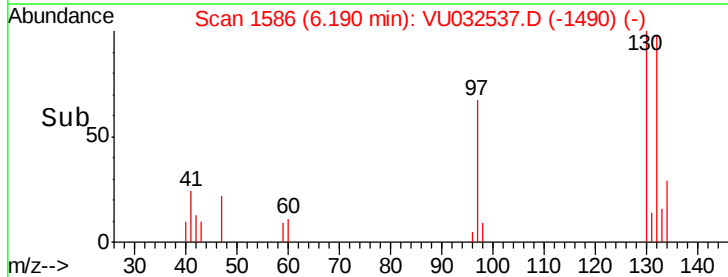
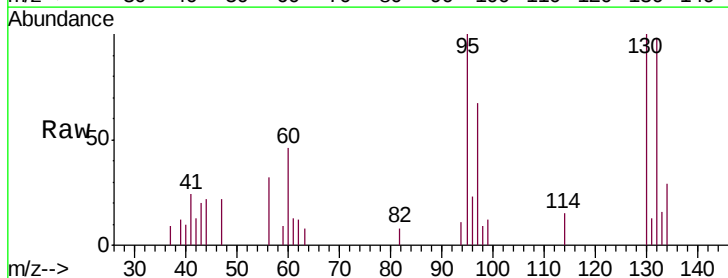
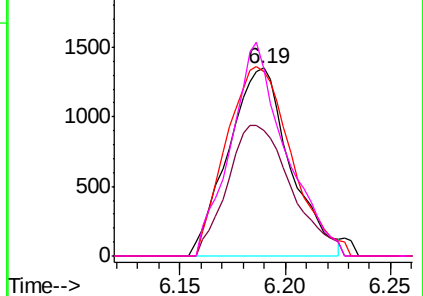
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 66.7  | 45.8  | 85.2  |
| 132 | 98.2  | 71.0  | 131.8 |
| 130 | 99.8  | 73.4  | 136.2 |

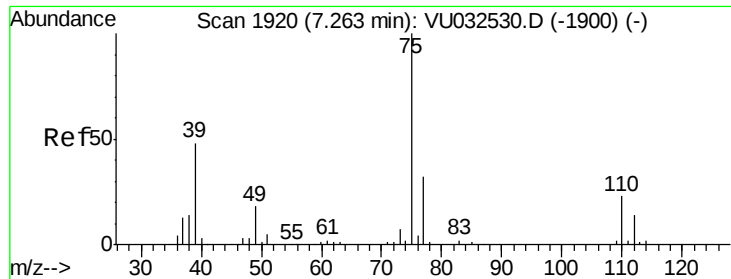
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

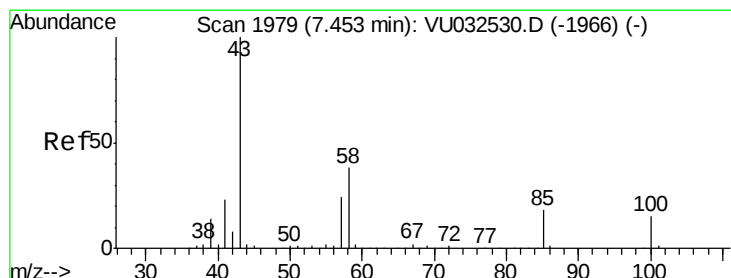
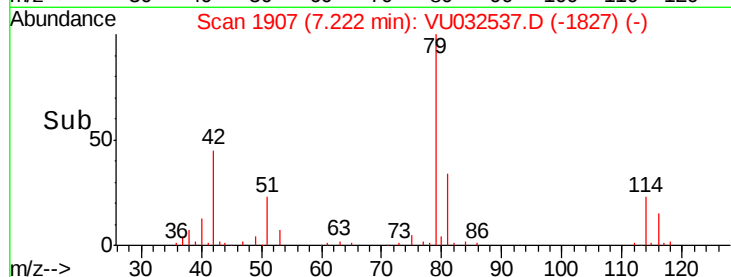
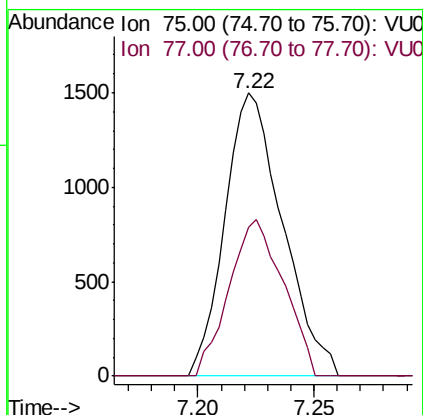
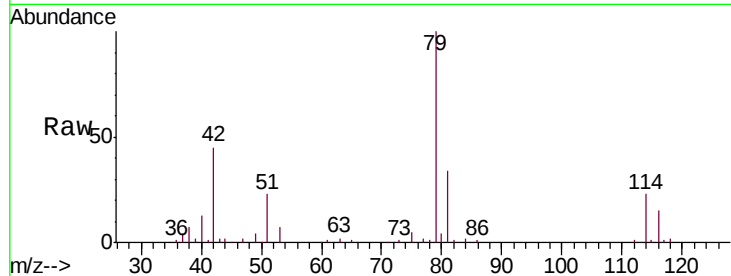




#39  
 cis-1,3-Dichloropropene  
 Concen: 1.145 ug/L  
 RT: 7.22 min Scan# 1907  
 Delta R.T. -0.04 min  
 Lab File: VU032537.D  
 Acq: 07 Jun 2019 12:41

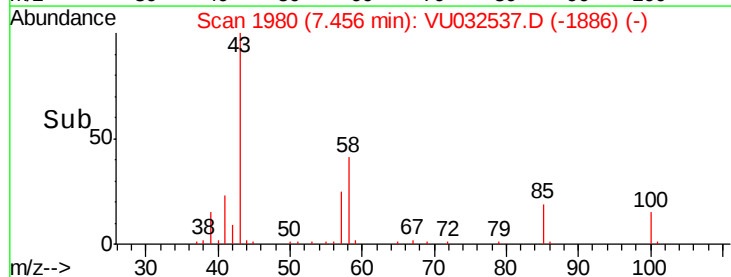
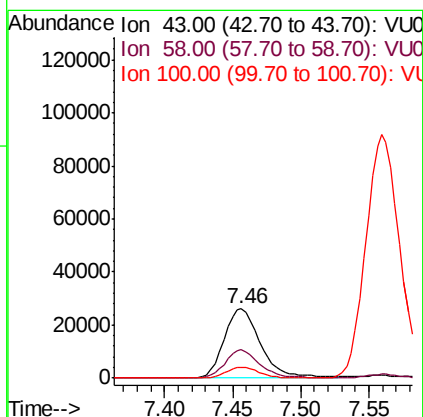
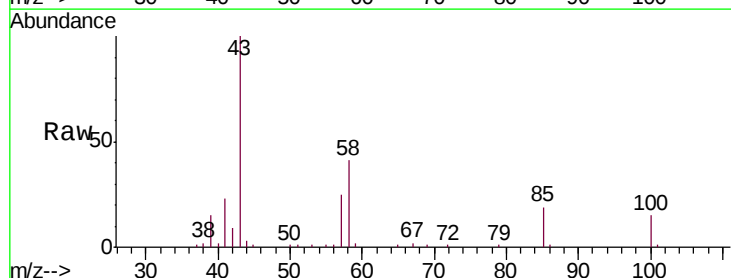
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB8H9DL

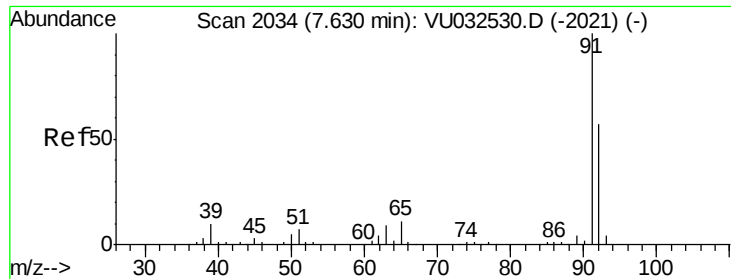
Tgt Ion: 75 Resp: 2589  
 Ion Ratio Lower Upper  
 75 100  
 77 52.7 22.0 41.0#



#40  
 4-Methyl-2-pentanone  
 Concen: 21.183 ug/L  
 RT: 7.46 min Scan# 1980  
 Delta R.T. 0.00 min  
 Lab File: VU032537.D  
 Acq: 07 Jun 2019 12:41

Tgt Ion: 43 Resp: 48829  
 Ion Ratio Lower Upper  
 43 100  
 58 38.8 30.8 46.2  
 100 14.4 12.1 18.1





#42

Toluene

Concen: 6.039 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU032537.D

Acq: 07 Jun 2019 12:41

Instrument :

MSVOA\_U

ClientSampleId :

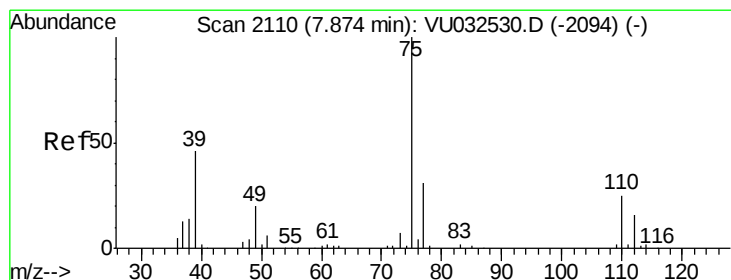
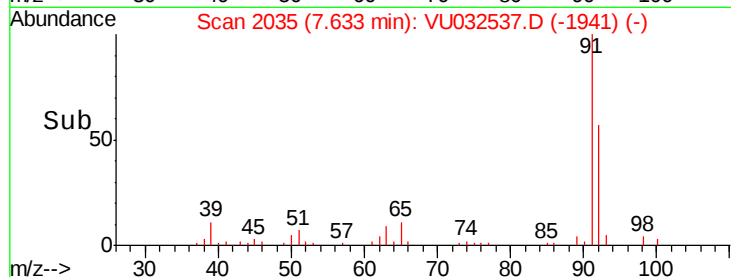
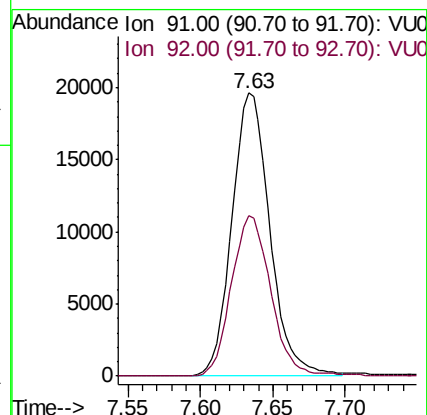
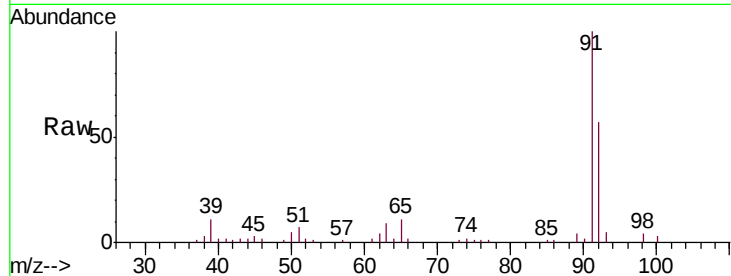
DB8H9DL

Tgt Ion: 91 Resp: 35746

Ion Ratio Lower Upper

91 100

92 56.6 39.7 73.7



#44

trans-1,3-Dichloropropene

Concen: 0.942 ug/L

RT: 7.85 min Scan# 2101

Delta R.T. -0.03 min

Lab File: VU032537.D

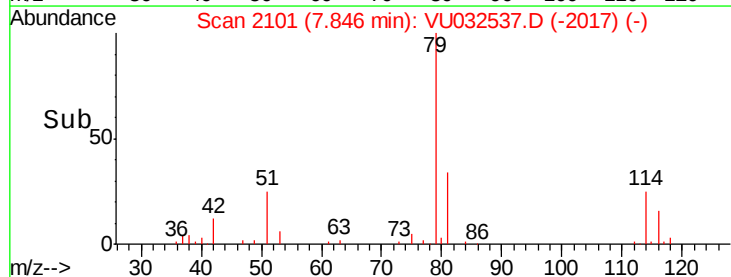
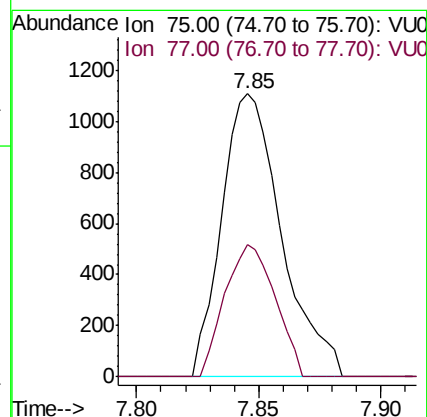
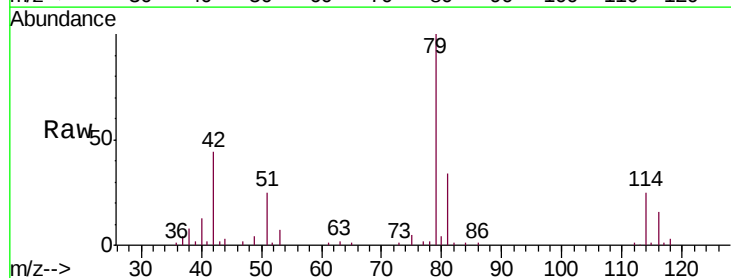
Acq: 07 Jun 2019 12:41

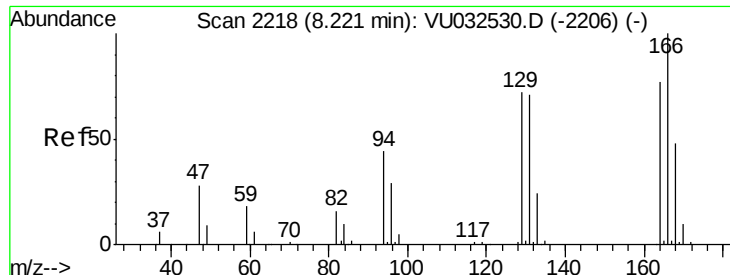
Tgt Ion: 75 Resp: 1890

Ion Ratio Lower Upper

75 100

77 46.9 22.1 41.1#

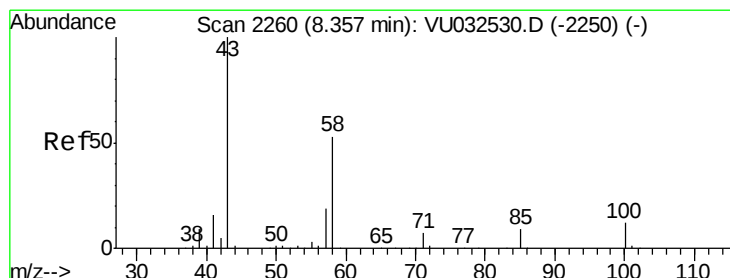
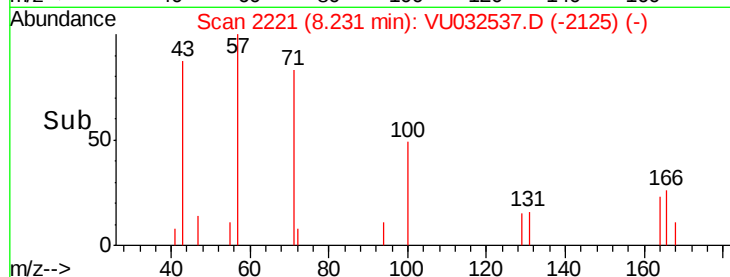
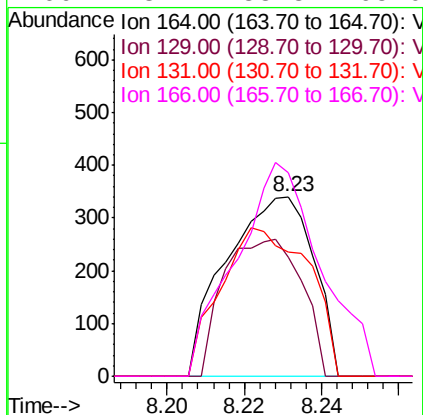
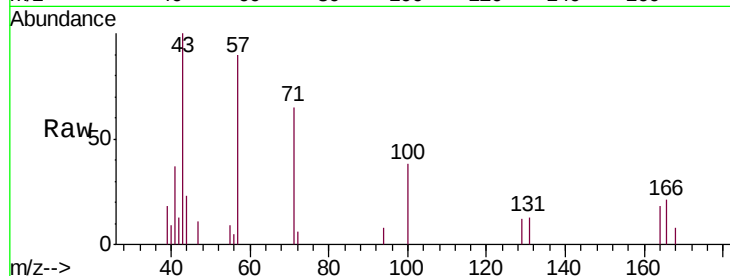




#46  
Tetrachloroethene  
Concen: 0.440 ug/L  
RT: 8.23 min Scan# 2221  
Delta R.T. 0.01 min  
Lab File: VU032537.D  
Acq: 07 Jun 2019 12:41

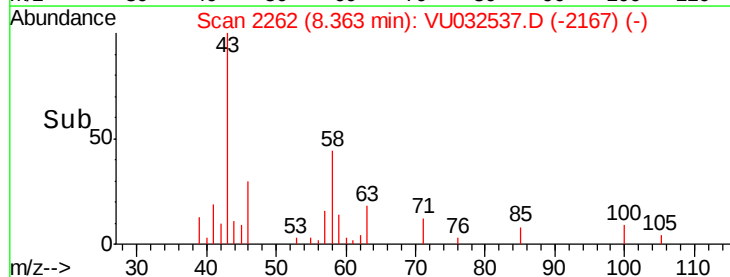
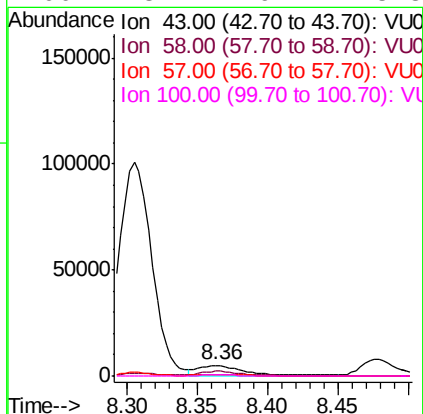
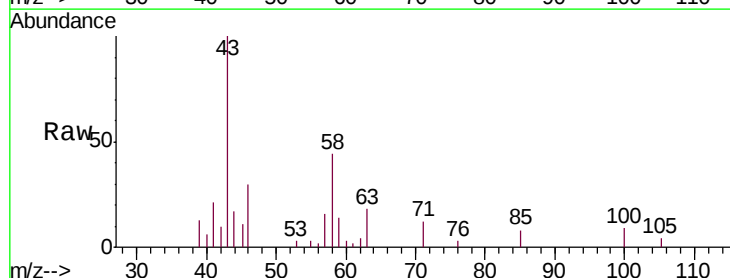
Instrument :  
MSVOA\_U  
ClientSampleId :  
DB8H9DL

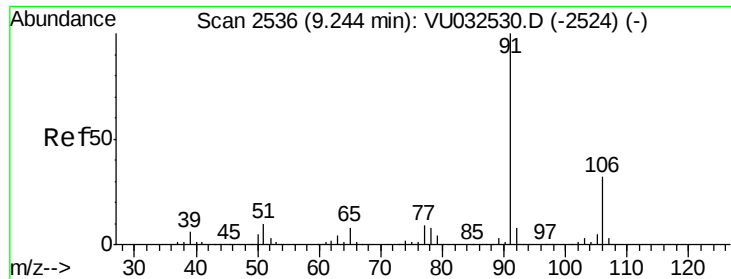
Tgt Ion: 164 Resp: 534  
Ion Ratio Lower Upper  
164 100  
129 66.6 65.3 121.3  
131 68.9 64.0 119.0  
166 113.2 88.8 165.0



#48  
2-Hexanone  
Concen: 5.713 ug/L  
RT: 8.36 min Scan# 2262  
Delta R.T. 0.01 min  
Lab File: VU032537.D  
Acq: 07 Jun 2019 12:41

Tgt Ion: 43 Resp: 10816  
Ion Ratio Lower Upper  
43 100  
58 44.9 42.0 63.0  
57 19.4 14.6 22.0  
100 8.7 9.2 13.8#





#52

Ethylbenzene

Concen: 1.041 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU032537.D

Acq: 07 Jun 2019 12:41

Instrument :

MSVOA\_U

ClientSampleId :

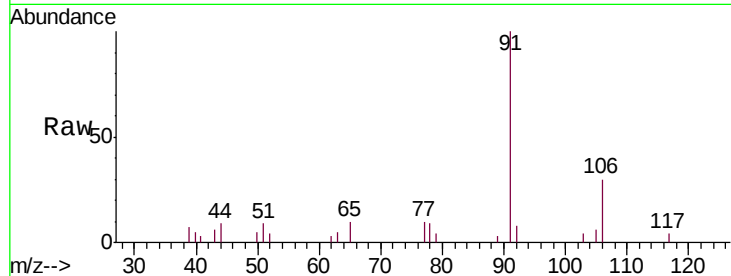
DB8H9DL

Tgt Ion: 91 Resp: 6869

Ion Ratio Lower Upper

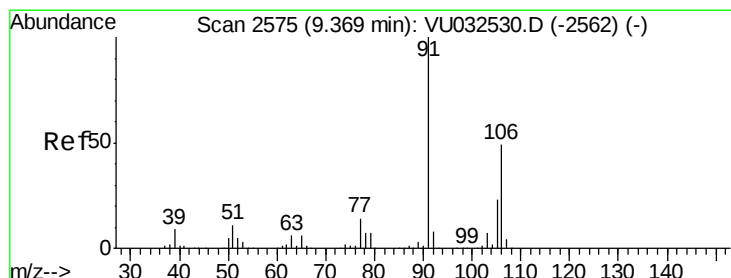
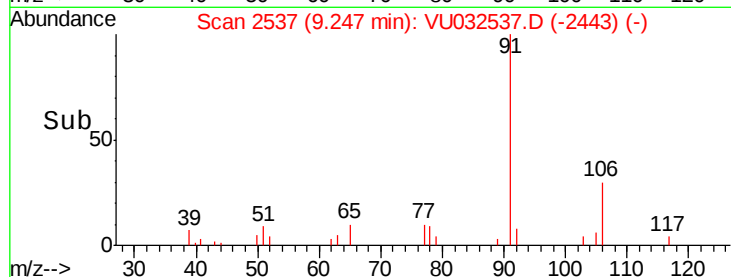
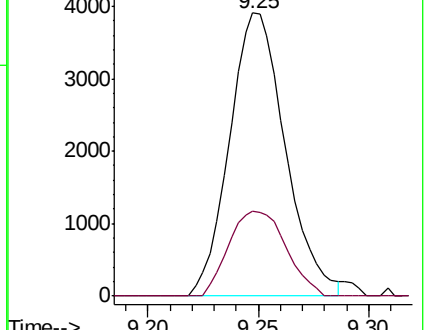
91 100

106 30.1 22.0 41.0



Abundance Ion 91.00 (90.70 to 91.70): VU032537.D (-2524) (-)

Ion 106.00 (105.70 to 106.70): VU032537.D (-2524) (-)



#53

m,p-Xylene

Concen: 3.713 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. 0.00 min

Lab File: VU032537.D

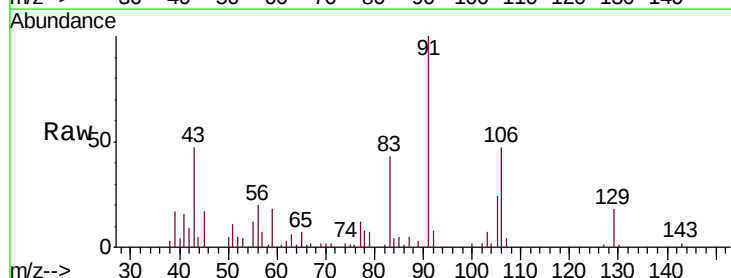
Acq: 07 Jun 2019 12:41

Tgt Ion: 106 Resp: 9315

Ion Ratio Lower Upper

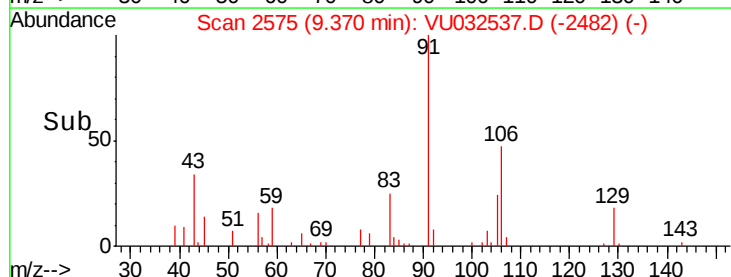
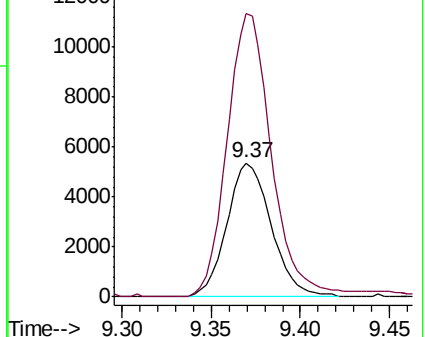
106 100

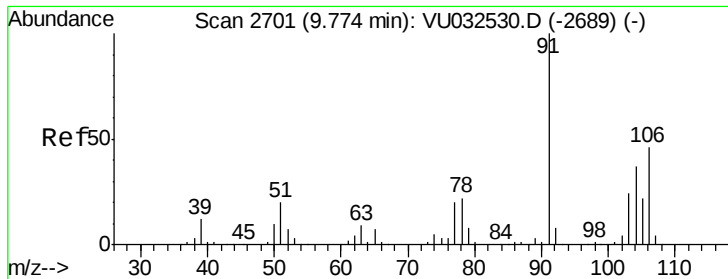
91 211.7 141.7 263.1



Abundance Ion 106.00 (105.70 to 106.70): VU032537.D (-2562) (-)

Ion 91.00 (90.70 to 91.70): VU032537.D (-2562) (-)





#54

o-xylene

Concen: 3.324 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU032537.D

Acq: 07 Jun 2019 12:41

Instrument :

MSVOA\_U

ClientSampleId :

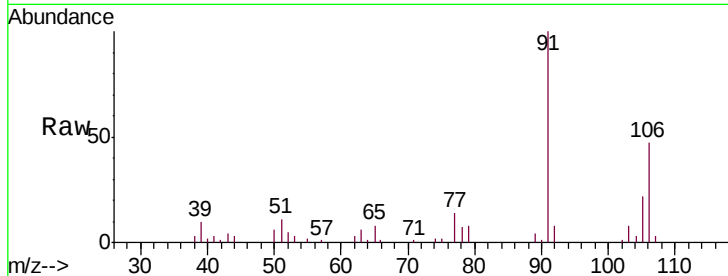
DB8H9DL

Tgt Ion:106 Resp: 8281

Ion Ratio Lower Upper

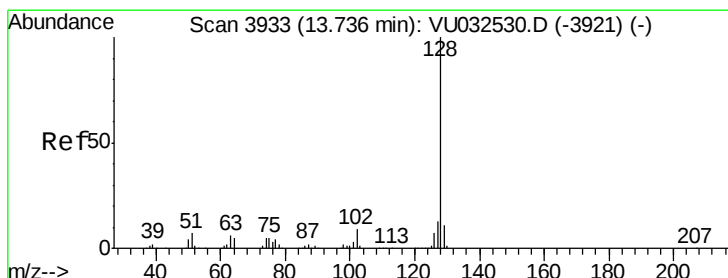
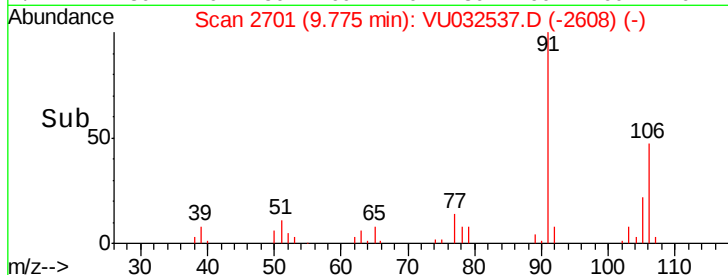
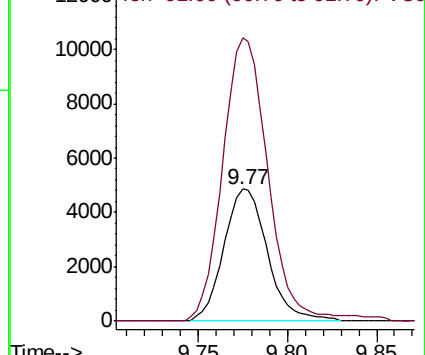
106 100

91 214.1 150.1 278.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#69

Naphthalene

Concen: 1.410 ug/L

RT: 13.75 min Scan# 3936

Delta R.T. 0.01 min

Lab File: VU032537.D

Acq: 07 Jun 2019 12:41

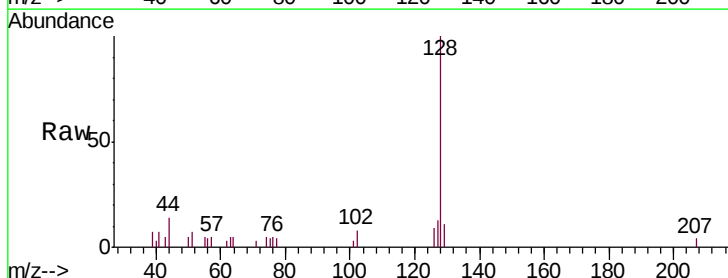
Tgt Ion:128 Resp: 8973

Ion Ratio Lower Upper

128 100

127 11.2 10.4 15.6

129 9.4 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

