

Data File : VU032515.D  
Acq On : 06 Jun 2019 22:18  
Operator : JC/SP  
Sample : K3224-02  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 34 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0C59

Quant Time: Jun 07 05:53:51 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM060619WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Jun 07 05:48:54 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 205011   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.08  | 117  | 194824   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 102229   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 40340    | 30.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 60.66%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 37995    | 35.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 71.10%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 66325    | 25.47    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 50.94%# |
| 21) 2-Butanone-d5              | 4.17    | 46    | 106458   | 95.64    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 95.64%  |
| 24) Chloroform-d               | 4.64    | 84    | 103524   | 41.73    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 83.46%  |
| 26) 1,2-Dichloroethane-d4      | 5.30    | 65    | 70599    | 45.18    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.36%  |
| 32) Benzene-d6                 | 5.33    | 84    | 211370   | 41.79    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 83.58%  |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 69200    | 43.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 87.26%  |
| 41) Toluene-d8                 | 7.56    | 98    | 198987   | 41.49    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 82.98%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 30707    | 40.46    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 80.92%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 70008    | 91.00    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 91.00%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 104182   | 45.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 90.68%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.85   | 152   | 93475    | 47.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 95.48%  |

#### Target Compounds

|                               |       |     |        |        | Qvalue |     |
|-------------------------------|-------|-----|--------|--------|--------|-----|
| 12) 1,1-Dichloroethene        | 2.27  | 96  | 736    | 0.605  | ug/L # | 1   |
| 13) Acetone                   | 2.32  | 43  | 15904  | 13.848 | ug/L   | 98  |
| 27) 1,2-Dichloroethane        | 5.34  | 62  | 1105   | 0.564  | ug/L # | 75  |
| 35) Methylcyclohexane         | 6.32  | 83  | 15659  | 6.495  | ug/L # | 19  |
| 37) 1,2-Dichloropropane       | 6.32  | 63  | 7748   | 5.340  | ug/L # | 88  |
| 39) cis-1,3-Dichloropropene   | 7.22  | 75  | 2135   | 0.933  | ug/L # | 73  |
| 44) trans-1,3-Dichloropropene | 7.85  | 75  | 1326   | 0.653  | ug/L # | 77  |
| 48) 2-Hexanone                | 8.36  | 43  | 3212   | 1.675  | ug/L # | 57  |
| 51) Chlorobenzene             | 9.12  | 112 | 22126  | 5.729  | ug/L   | 98  |
| 59) 1,2,3-Trichloropropane    | 11.41 | 75  | 1292   | 0.685  | ug/L # | 43  |
| 62) 1,3-Dichlorobenzene       | 11.42 | 146 | 4628   | 1.496  | ug/L   | 96  |
| 63) 1,4-Dichlorobenzene       | 11.50 | 146 | 25935  | 8.202  | ug/L   | 96  |
| 65) 1,2-Dichlorobenzene       | 11.87 | 146 | 209668 | 67.053 | ug/L   | 98  |
| 67) 1,3,5-Trichlorobenzene    | 13.50 | 180 | 48756  | 20.262 | ug/L   | 98  |
| 68) 1,2,4-trichlorobenzene    | 13.50 | 180 | 48756  | 23.917 | ug/L   | 99  |
| 70) 1,2,3-Trichlorobenzene    | 13.98 | 180 | 40153  | 18.926 | ug/L   | 100 |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU060619\  
Quantitation Report (Not Reviewed)

Data File : VU032515.D  
Acq On : 06 Jun 2019 22:18  
Operator : JC/SP  
Sample : K3224-02  
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ALS Vial : 34 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0C59

Quant Time: Jun 07 05:53:51 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM060619WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Jun 07 05:48:54 2019  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

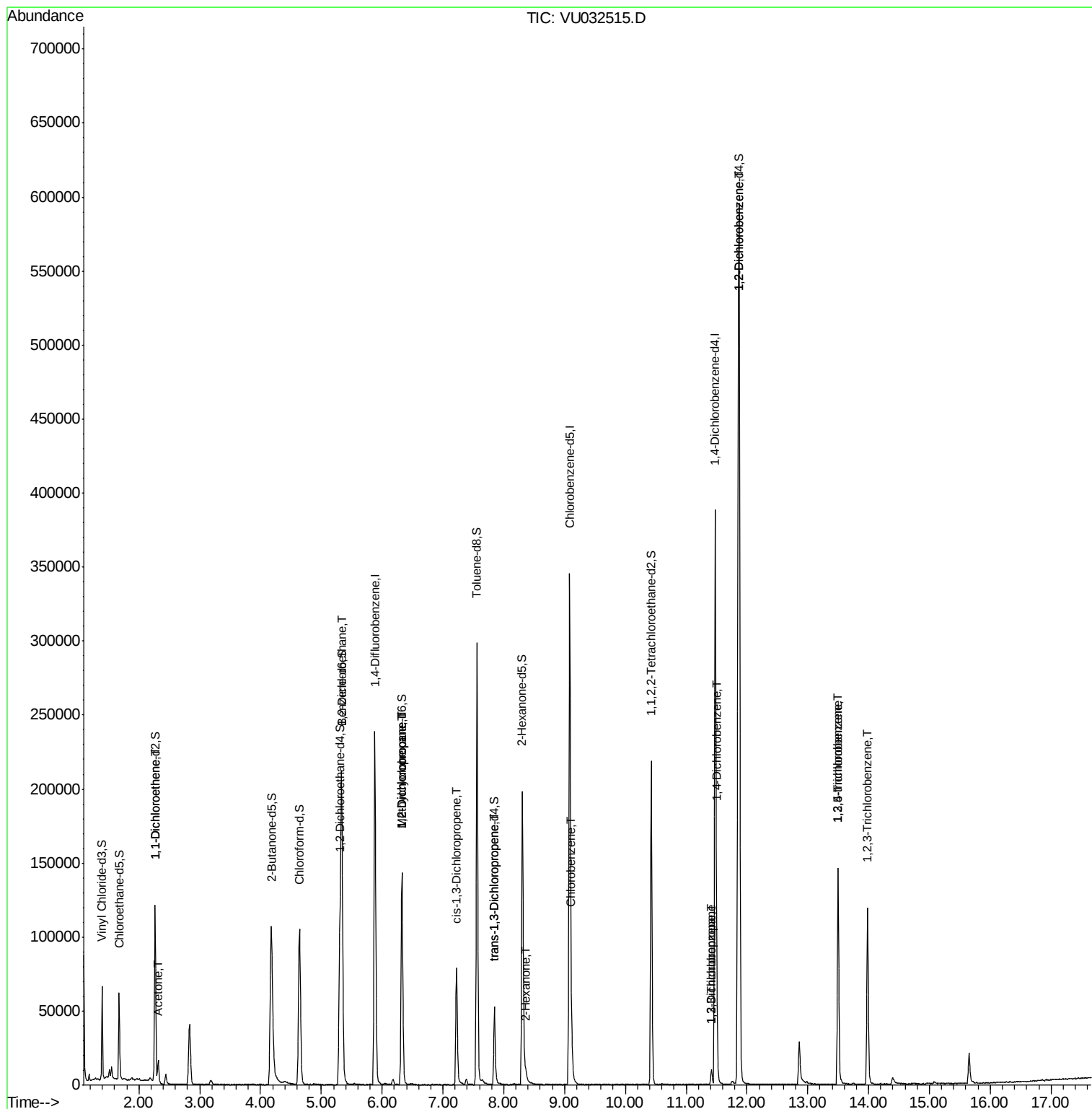
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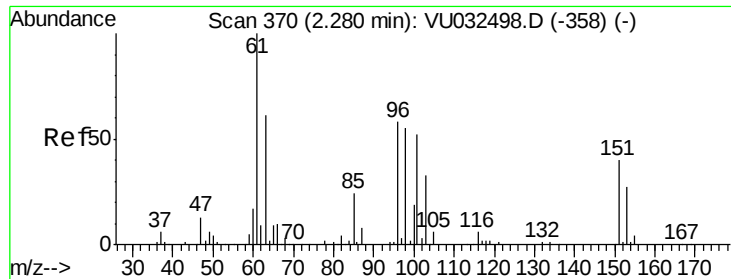
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VU032515.D  
Acq On : 06 Jun 2019 22:18  
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Sample : K3224-02  
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Instrument :  
MSVOA\_U  
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C0C59

Quant Time: Jun 07 05:53:51 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM060619WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Jun 07 05:48:54 2019  
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 0.605 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.01 min

Lab File: VU032515.D

Acq: 06 Jun 2019 22:18

Instrument :

MSVOA\_U

ClientSampleId :

C0C59

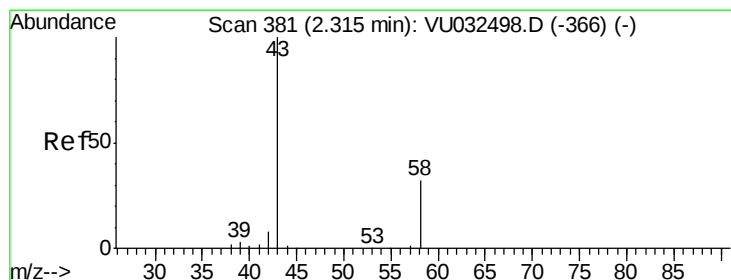
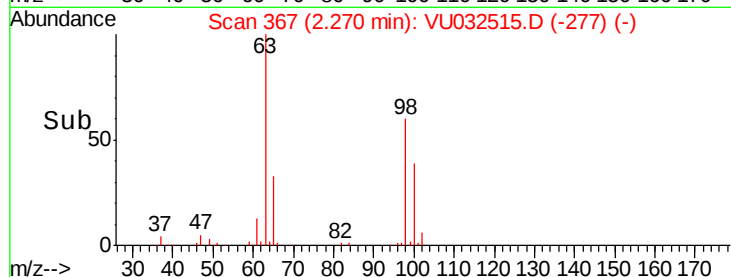
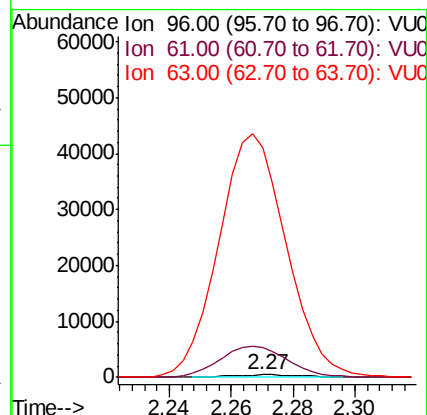
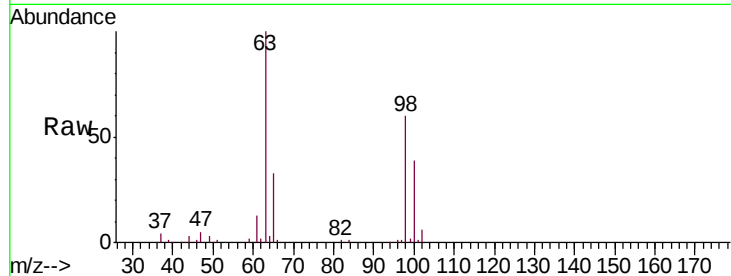
Tgt Ion: 96 Resp: 736

Ion Ratio Lower Upper

96 100

61 1199.8 129.5 240.5#

63 9313.4 103.4 192.0#



#13

Acetone

Concen: 13.848 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU032515.D

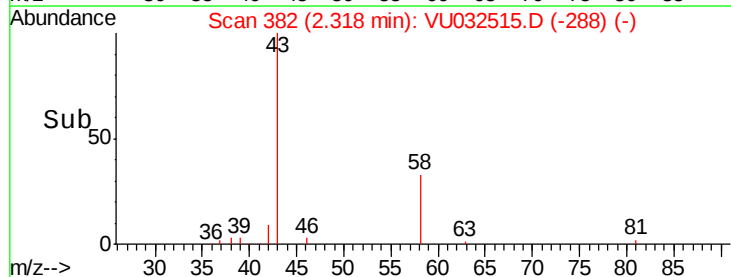
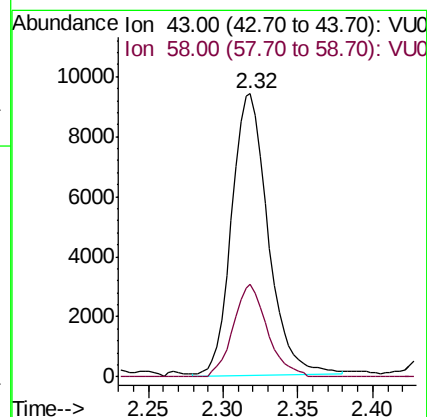
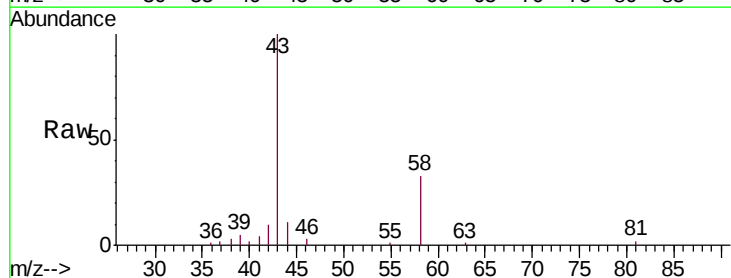
Acq: 06 Jun 2019 22:18

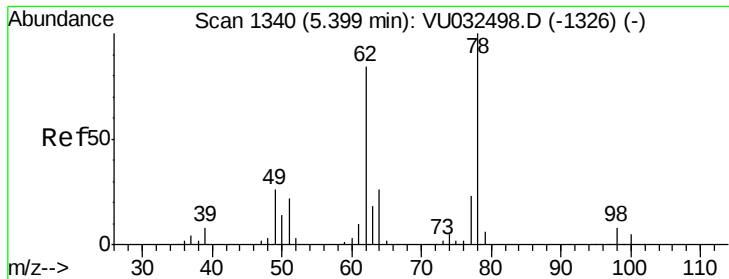
Tgt Ion: 43 Resp: 15904

Ion Ratio Lower Upper

43 100

58 30.7 0.0 64.0





#27

1,2-Dichloroethane

Concen: 0.564 ug/L

RT: 5.34 min Scan# 1321

Delta R.T. -0.06 min

Lab File: VU032515.D

Acq: 06 Jun 2019 22:18

Instrument :

MSVOA\_U

ClientSampleId :

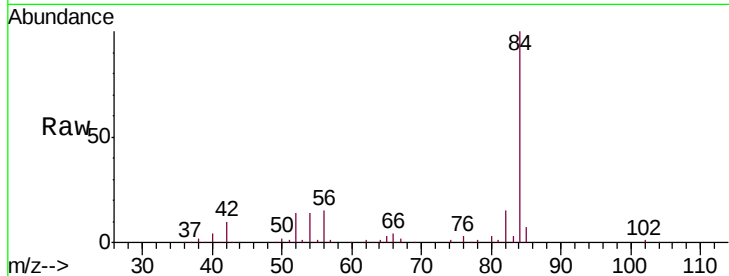
C0C59

Tgt Ion: 62 Resp: 1105

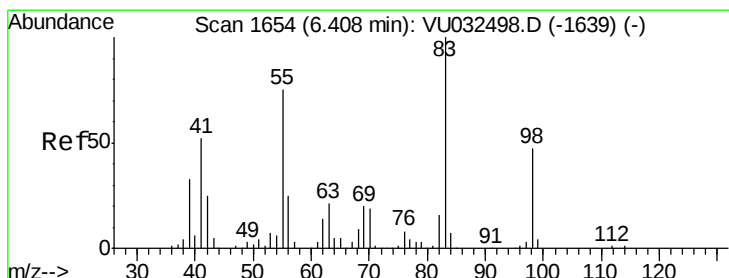
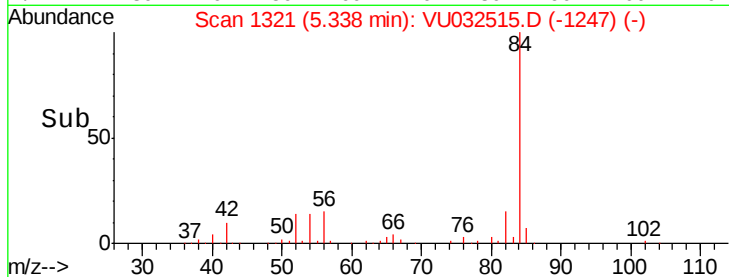
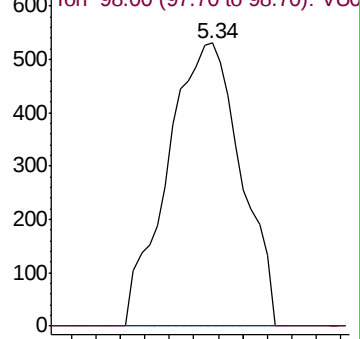
Ion Ratio Lower Upper

62 100

98 0.0 7.2 10.8#



Abundance Ion 62.00 (61.70 to 62.70): VU032498.D (-1326) (-)



#35

Methylcyclohexane

Concen: 6.495 ug/L

RT: 6.32 min Scan# 1628

Delta R.T. -0.08 min

Lab File: VU032515.D

Acq: 06 Jun 2019 22:18

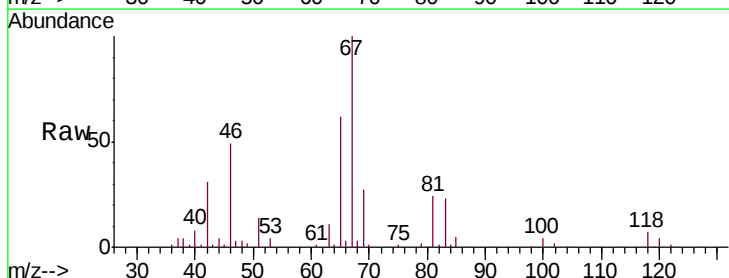
Tgt Ion: 83 Resp: 15659

Ion Ratio Lower Upper

83 100

55 0.0 60.2 90.4#

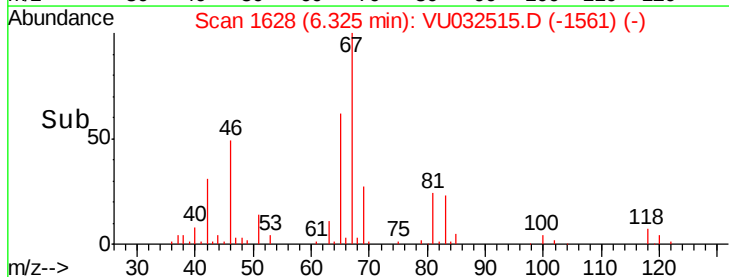
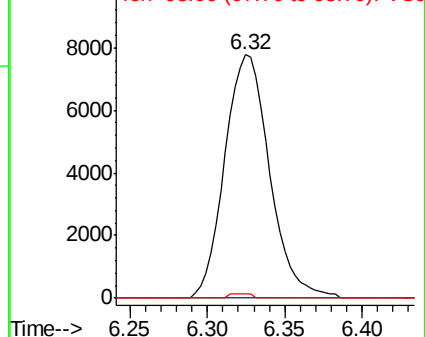
98 0.8 37.4 56.2#

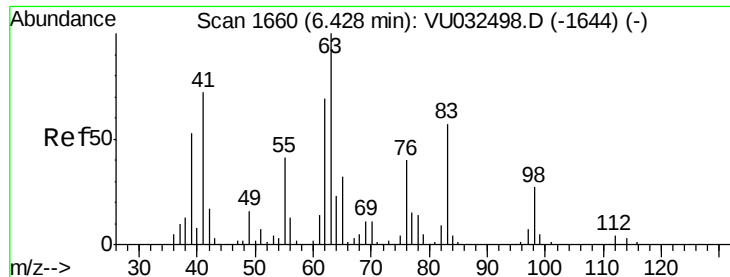


Abundance Ion 83.00 (82.70 to 83.70): VU032498.D (-1639) (-)

Ion 55.00 (54.70 to 55.70): VU032498.D (-1639) (-)

Ion 98.00 (97.70 to 98.70): VU032498.D (-1639) (-)

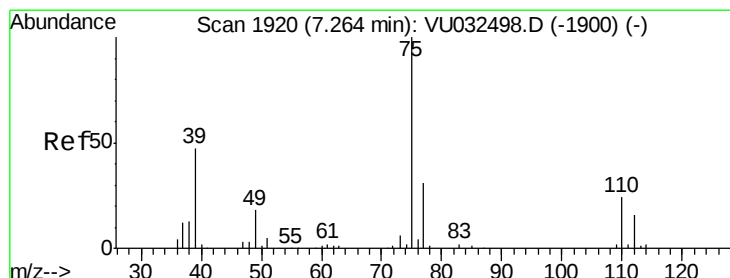
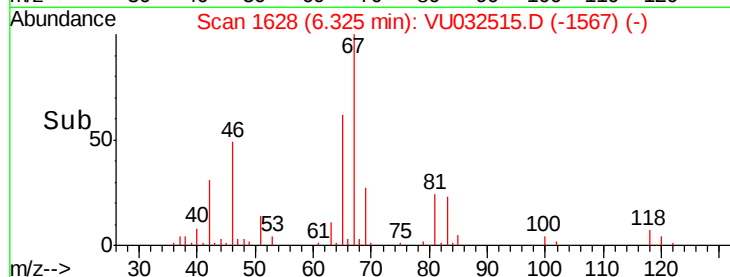
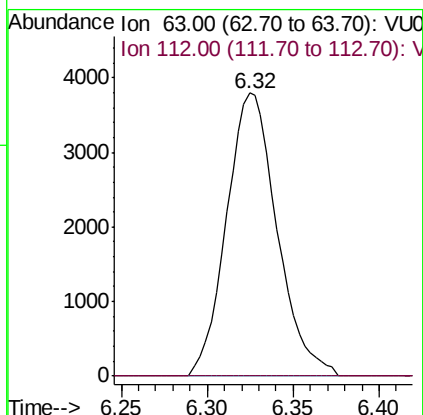
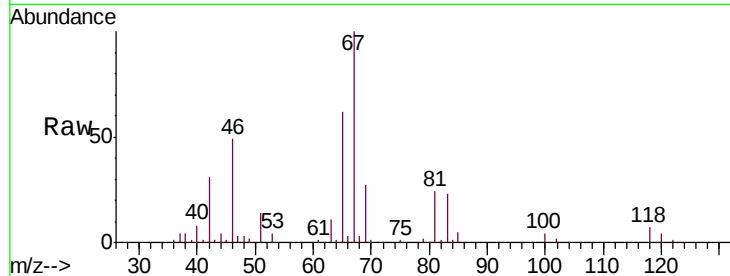




#37  
 1,2-Dichloropropane  
 Concen: 5.340 ug/L  
 RT: 6.32 min Scan# 1628  
 Delta R.T. -0.10 min  
 Lab File: VU032515.D  
 Acq: 06 Jun 2019 22:18

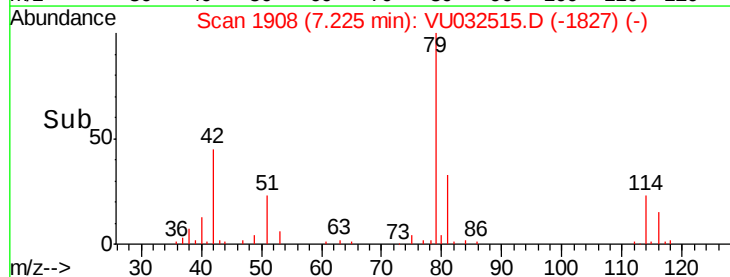
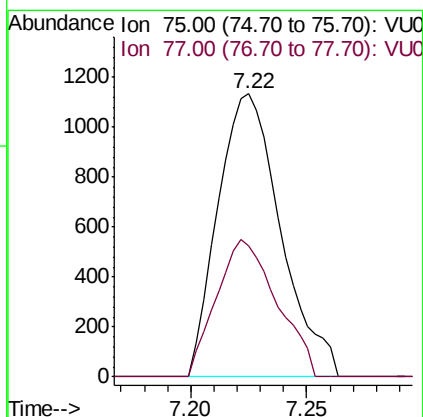
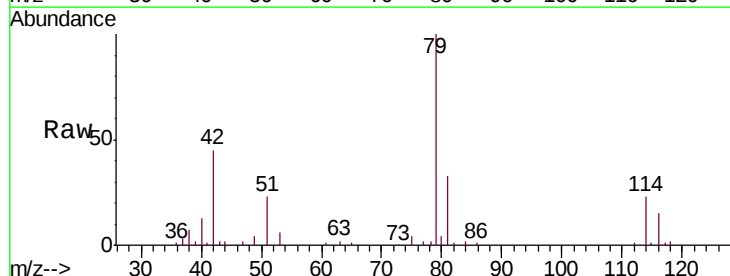
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0C59

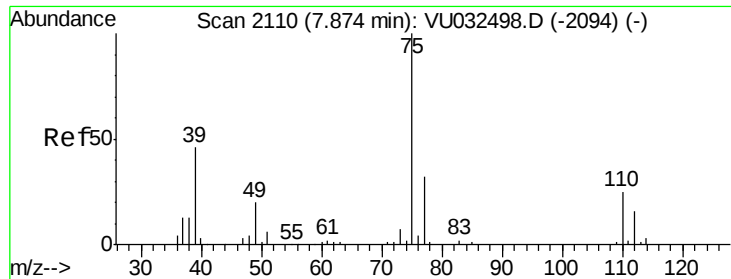
Tgt Ion: 63 Resp: 7748  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.1 4.7#



#39  
 cis-1,3-Dichloropropene  
 Concen: 0.933 ug/L  
 RT: 7.22 min Scan# 1908  
 Delta R.T. -0.04 min  
 Lab File: VU032515.D  
 Acq: 06 Jun 2019 22:18

Tgt Ion: 75 Resp: 2135  
 Ion Ratio Lower Upper  
 75 100  
 77 46.3 22.0 41.0#





#44

trans-1,3-Dichloropropene

Concen: 0.653 ug/L

RT: 7.85 min Scan# 2102

Delta R.T. -0.03 min

Lab File: VU032515.D

Acq: 06 Jun 2019 22:18

Instrument :

MSVOA\_U

ClientSampleId :

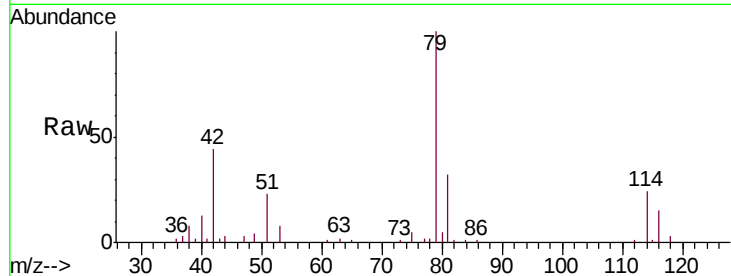
C0C59

Tgt Ion: 75 Resp: 1326

Ion Ratio Lower Upper

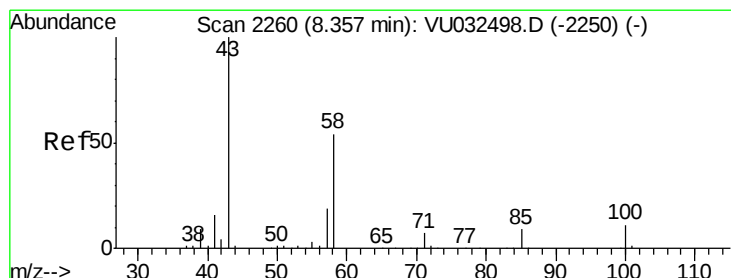
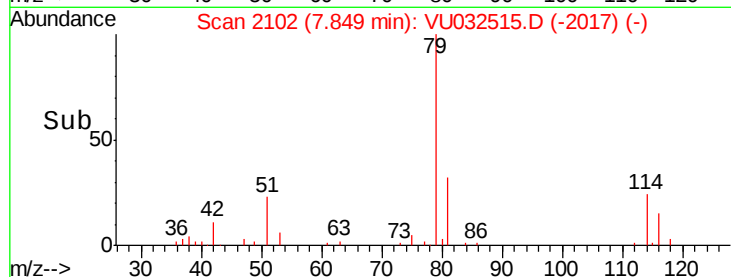
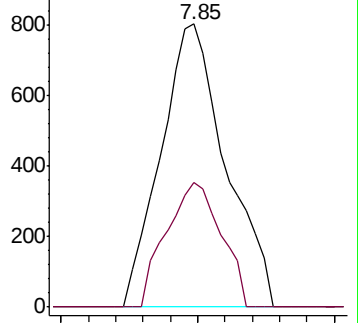
75 100

77 44.2 22.1 41.1#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#48

2-Hexanone

Concen: 1.675 ug/L

RT: 8.36 min Scan# 2262

Delta R.T. 0.01 min

Lab File: VU032515.D

Acq: 06 Jun 2019 22:18

Tgt Ion: 43 Resp: 3212

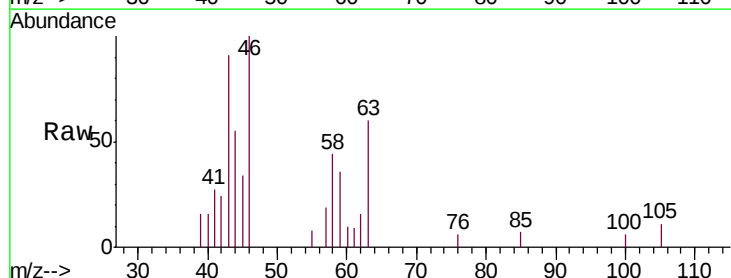
Ion Ratio Lower Upper

43 100

58 9.3 42.0 63.0#

57 17.6 14.6 22.0

100 2.8 9.2 13.8#

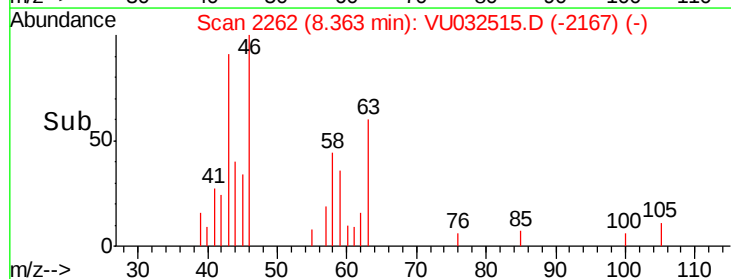
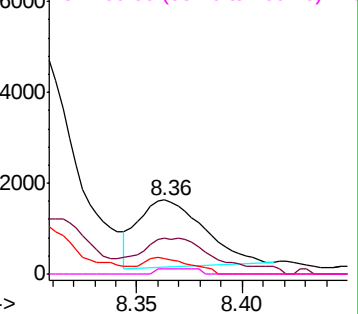


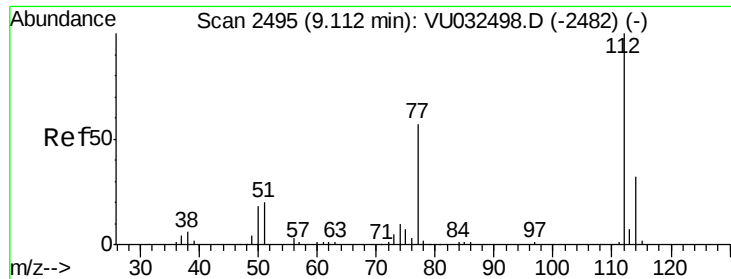
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

Ion 100.00 (99.70 to 100.70): VU0





#51

Chlorobenzene

Concen: 5.729 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

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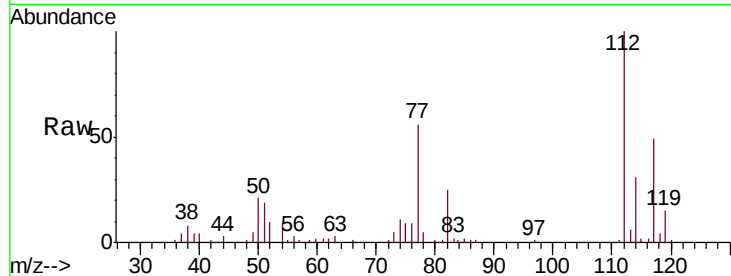
Tgt Ion: 112 Resp: 22126

Ion Ratio Lower Upper

112 100

114 31.1 22.6 42.0

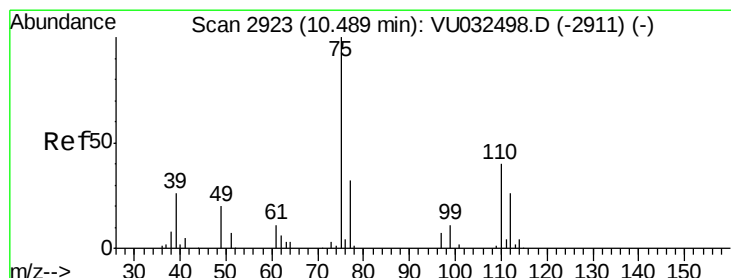
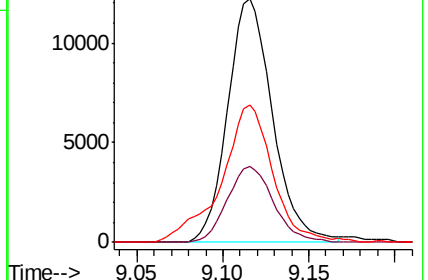
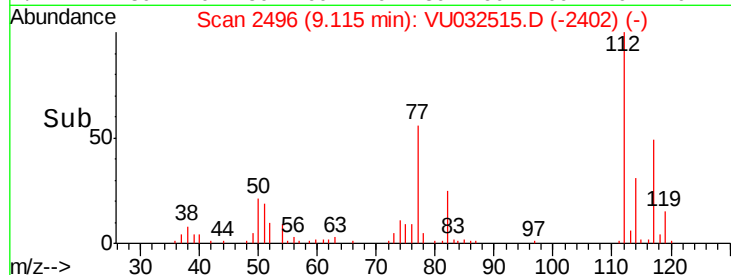
77 56.4 46.1 69.1



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU



#59

1,2,3-Trichloropropane

Concen: 0.685 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.93 min

Lab File: VU032515.D

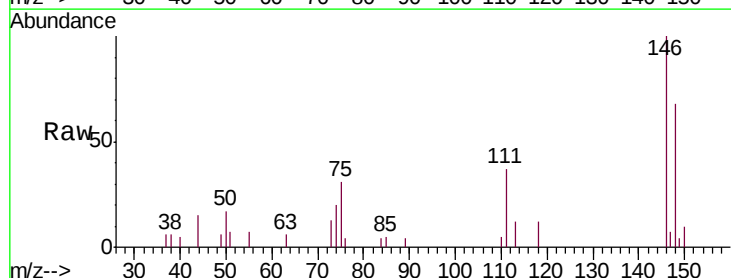
Acq: 06 Jun 2019 22:18

Tgt Ion: 75 Resp: 1292

Ion Ratio Lower Upper

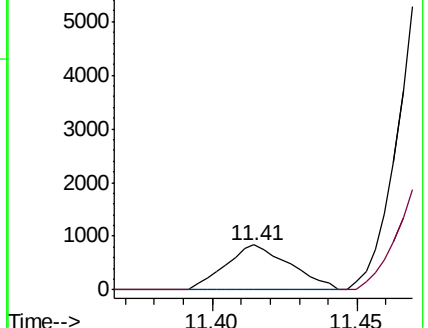
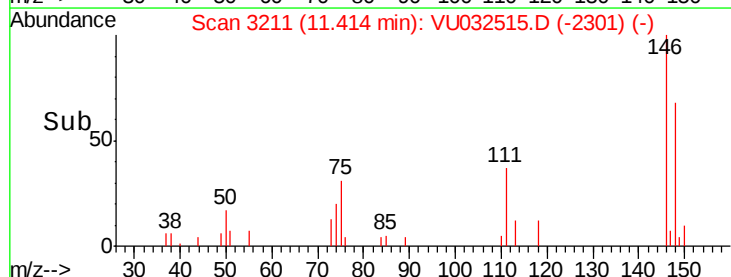
75 100

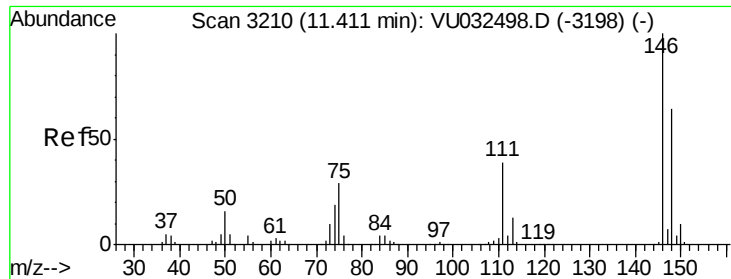
77 0.0 25.6 38.4#



Abundance Ion 75.00 (74.70 to 75.70): VU

Ion 77.00 (76.70 to 77.70): VU

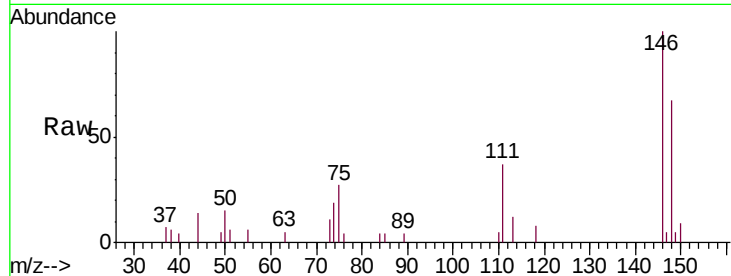




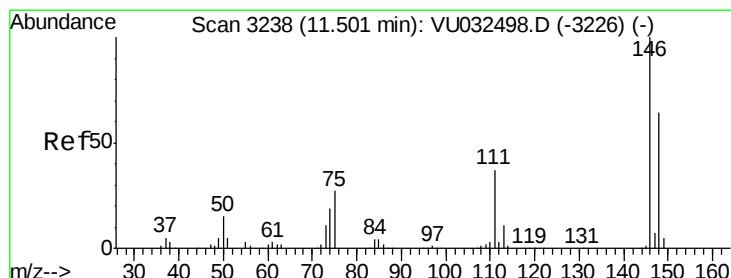
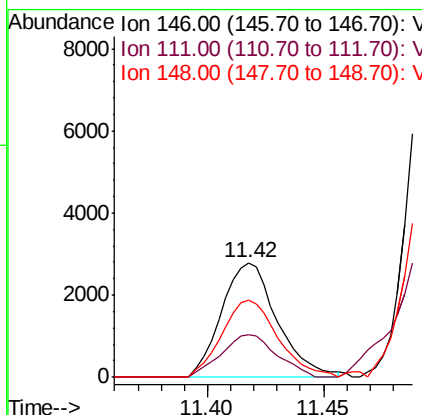
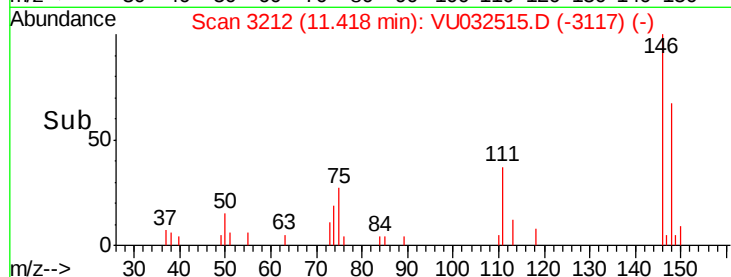
#62  
 1,3-Dichlorobenzene  
 Concen: 1.496 ug/L  
 RT: 11.42 min Scan# 3212  
 Delta R.T. 0.01 min  
 Lab File: VU032515.D  
 Acq: 06 Jun 2019 22:18

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0C59

Tgt Ion:146 Resp: 4628  
 Ion Ratio Lower Upper  
 146 100  
 111 37.2 27.3 50.7  
 148 67.0 44.4 82.5

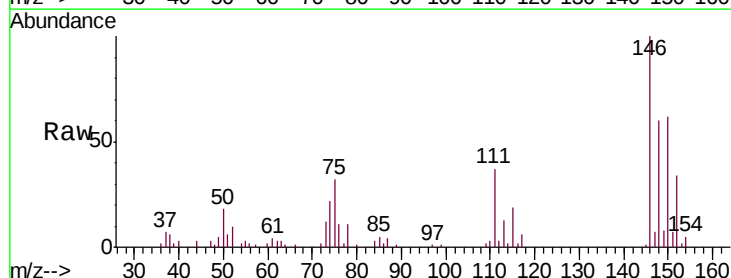


Abundance Ion 146.00 (145.70 to 146.70): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V

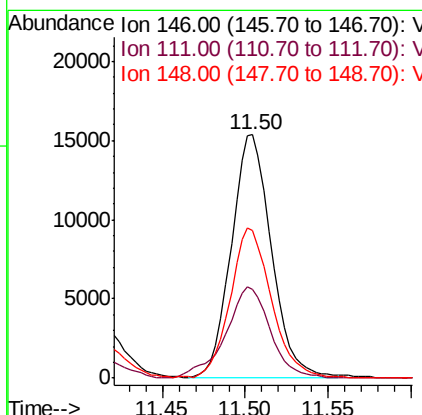
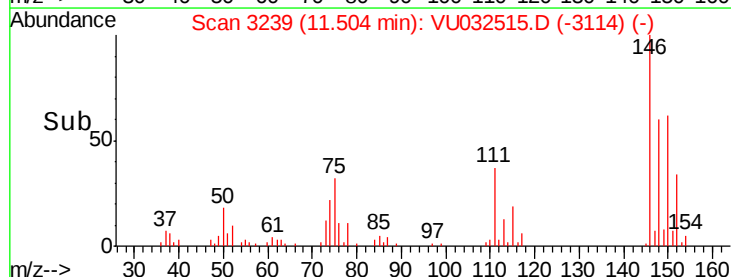


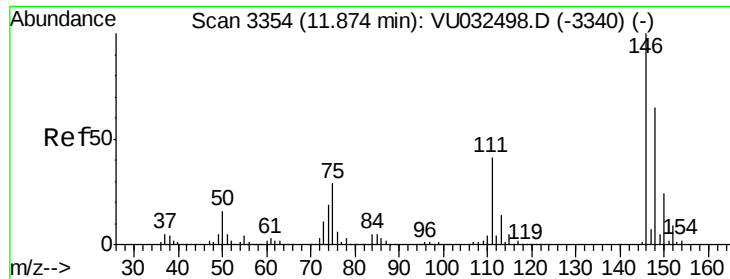
#63  
 1,4-Dichlorobenzene  
 Concen: 8.202 ug/L  
 RT: 11.50 min Scan# 3239  
 Delta R.T. 0.00 min  
 Lab File: VU032515.D  
 Acq: 06 Jun 2019 22:18

Tgt Ion:146 Resp: 25935  
 Ion Ratio Lower Upper  
 146 100  
 111 36.7 26.6 49.4  
 148 60.4 44.9 83.5



Abundance Ion 146.00 (145.70 to 146.70): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V

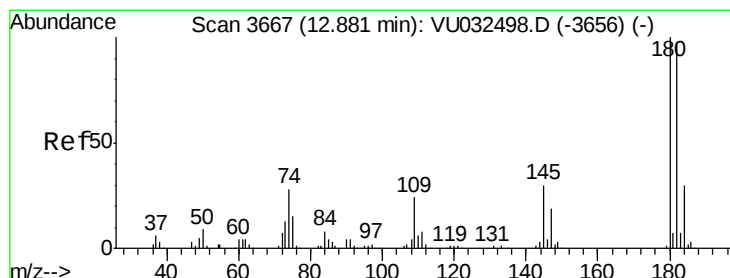
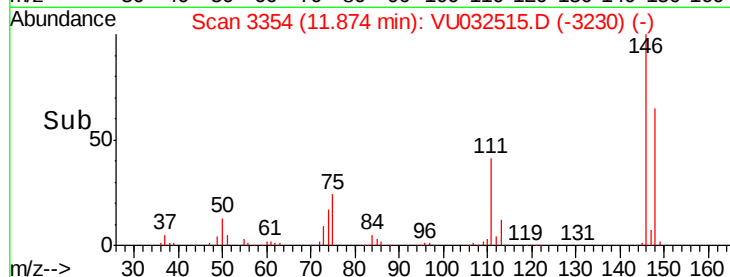
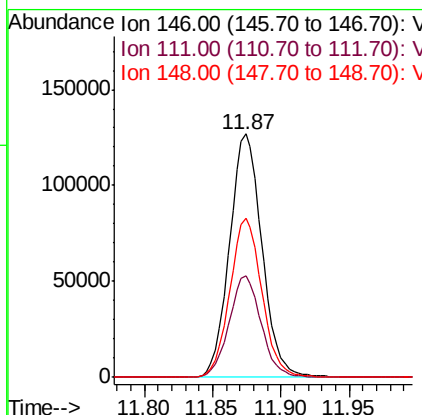
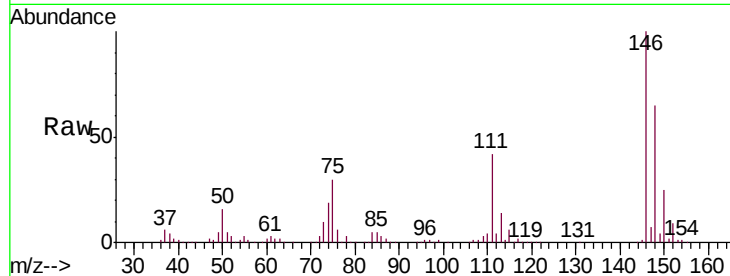




#65  
 1,2-Dichlorobenzene  
 Concen: 67.053 ug/L  
 RT: 11.87 min Scan# 3354  
 Delta R.T. -0.00 min  
 Lab File: VU032515.D  
 Acq: 06 Jun 2019 22:18

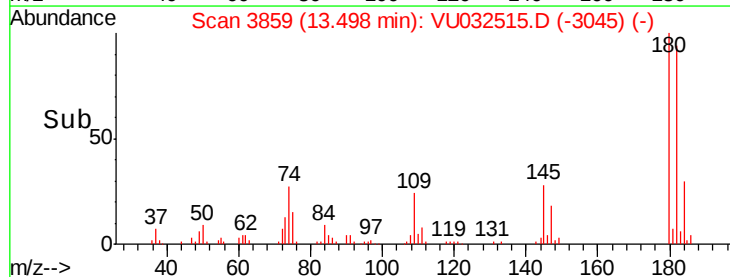
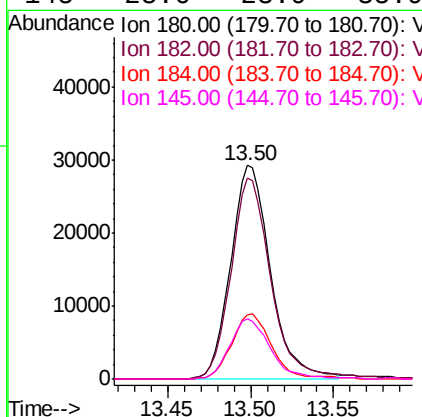
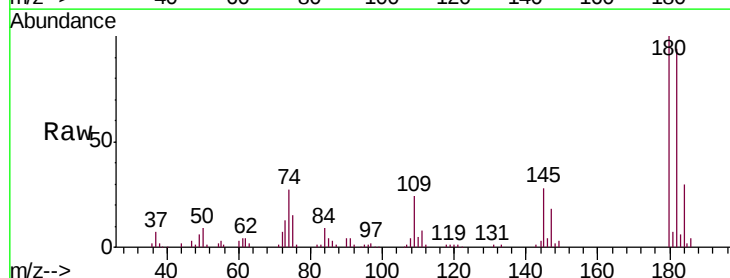
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0C59

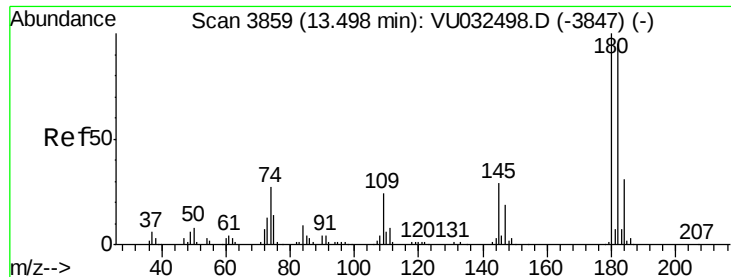
Tgt Ion:146 Resp: 209668  
 Ion Ratio Lower Upper  
 146 100  
 111 41.7 32.6 48.8  
 148 65.3 50.5 75.7



#67  
 1,3,5-Trichlorobenzene  
 Concen: 20.262 ug/L  
 RT: 13.50 min Scan# 3859  
 Delta R.T. 0.62 min  
 Lab File: VU032515.D  
 Acq: 06 Jun 2019 22:18

Tgt Ion:180 Resp: 48756  
 Ion Ratio Lower Upper  
 180 100  
 182 95.1 78.2 117.4  
 184 30.2 24.2 36.2  
 145 28.6 23.9 35.9





#68

1,2,4-trichlorobenzene

Concen: 23.917 ug/L

RT: 13.50 min Scan# 3859

Delta R.T. -0.00 min

Lab File: VU032515.D

Acq: 06 Jun 2019 22:18

Instrument :

MSVOA\_U

ClientSampleId :

C0C59

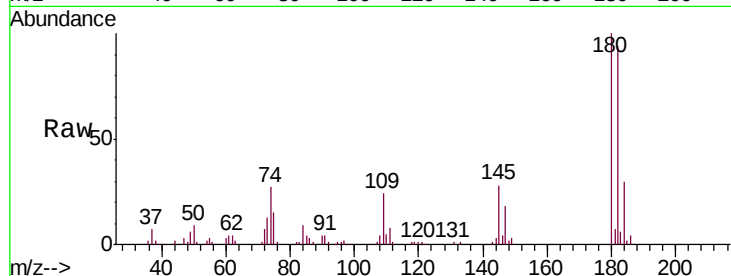
Tgt Ion:180 Resp: 48756

Ion Ratio Lower Upper

180 100

182 95.1 76.5 114.7

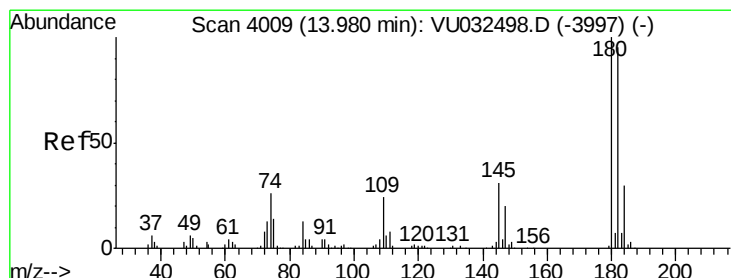
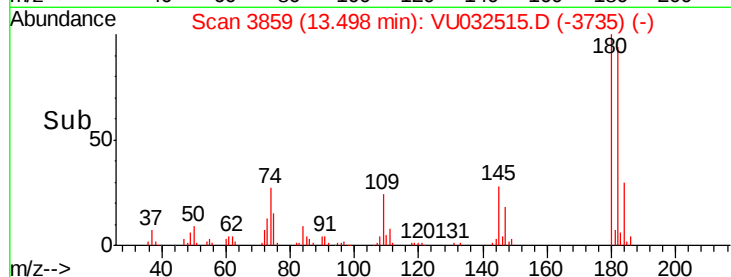
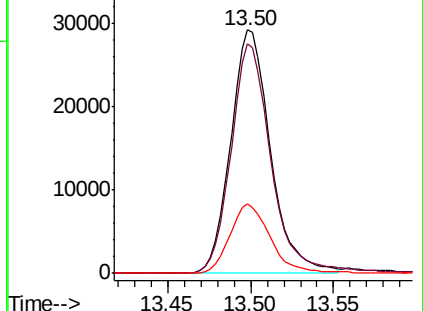
145 28.6 23.8 35.6



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: 18.926 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU032515.D

Acq: 06 Jun 2019 22:18

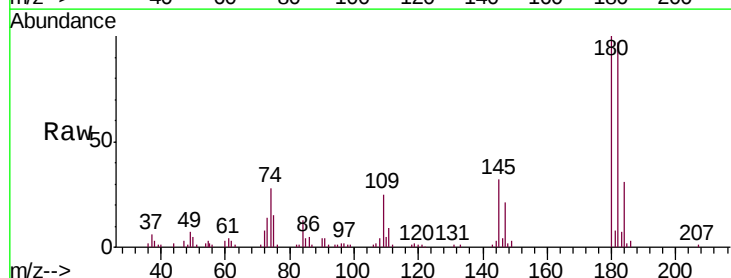
Tgt Ion:180 Resp: 40153

Ion Ratio Lower Upper

180 100

182 96.2 76.7 115.1

145 31.7 25.4 38.2



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

