

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV091318\  
 Data File : VV007525.D  
 Acq On : 13 Sep 2018 22:25  
 Operator : SY/MD  
 Sample : J4864-04  
 Misc : 25.0 mL/MSVOA\_V/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0D10

Quant Time: Sep 14 06:55:13 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR091318WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Sep 14 05:10:24 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 134774   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.91  | 117  | 123063   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 67238    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.31   | 65    | 31202    | 4.43     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 88.60%   |
| 7) Chloroethane-d5             | 1.58   | 69    | 27124    | 4.59     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 91.80%   |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 53558    | 3.66     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 73.20%   |
| 20) 2-Butanone-d5              | 4.04   | 46    | 72759    | 74.10    | ug/L | 0.07     |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 148.20%# |
| 24) Chloroform-d               | 4.41   | 84    | 73044    | 5.06     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 101.20%  |
| 26) 1,2-Dichloroethane-d4      | 5.09   | 65    | 32431    | 4.58     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 91.60%   |
| 32) Benzene-d6                 | 5.09   | 84    | 120601   | 4.32     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 86.40%   |
| 36) 1,2-Dichloropropane-d6     | 6.13   | 67    | 37441    | 4.50     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 90.00%   |
| 41) Toluene-d8                 | 7.38   | 98    | 124094   | 4.27     | ug/L | 0.02     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 85.40%   |
| 43) trans-1,3-Dichloropropene- | 7.69   | 79    | 15731    | 4.09     | ug/L | 0.02     |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 81.80%   |
| 46) 2-Hexanone-d5              | 8.16   | 63    | 63059    | 102.58   | ug/L | 0.02     |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 205.16%# |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27  | 84    | 28422    | 4.89     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 97.80%   |
| 64) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 51962    | 4.22     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 84.40%   |

## Target Compounds

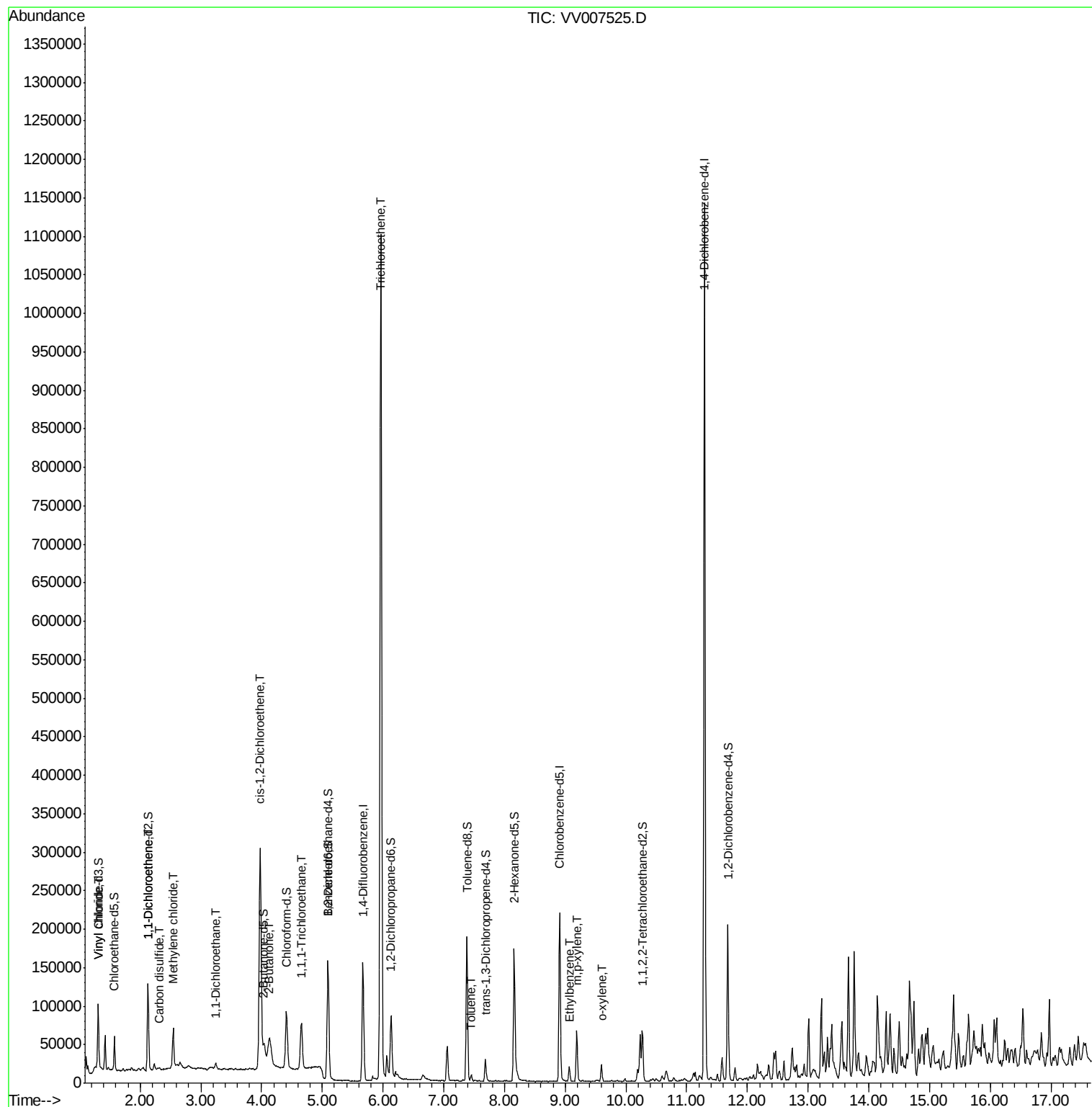
|                            |      |     |        |        | Qvalue    |
|----------------------------|------|-----|--------|--------|-----------|
| 5) Vinyl chloride          | 1.32 | 62  | 18014  | 2.544  | ug/L 96   |
| 12) 1,1-Dichloroethene     | 2.14 | 96  | 7428   | 1.086  | ug/L # 1  |
| 14) Carbon disulfide       | 2.32 | 76  | 2125   | 0.106  | ug/L # 61 |
| 16) Methylene chloride     | 2.54 | 84  | 22107  | 2.990  | ug/L 96   |
| 19) 1,1-Dichloroethane     | 3.25 | 63  | 7078   | 0.652  | ug/L # 93 |
| 21) 2-Butanone             | 4.13 | 43  | 27744  | 25.788 | ug/L 75   |
| 22) cis-1,2-Dichloroethene | 3.98 | 96  | 168414 | 22.960 | ug/L # 92 |
| 29) 1,1,1-Trichloroethane  | 4.66 | 97  | 48361  | 4.041  | ug/L 97   |
| 34) Trichloroethene        | 5.96 | 95  | 361056 | 46.326 | ug/L 98   |
| 42) Toluene                | 7.45 | 91  | 5907   | 0.201  | ug/L 95   |
| 52) Ethylbenzene           | 9.07 | 91  | 13342  | 0.403  | ug/L 97   |
| 53) m,p-xylene             | 9.19 | 106 | 18142  | 1.416  | ug/L 96   |
| 54) o-xylene               | 9.60 | 106 | 5811   | 0.463  | ug/L 92   |

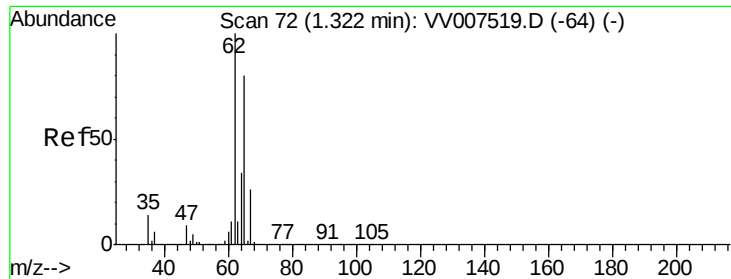
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_V\DATA\VV091318\  
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Quant Time: Sep 14 06:55:13 2018  
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Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Sep 14 05:10:24 2018  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 2.544 ug/L

RT: 1.32 min Scan# 70

Delta R.T. -0.01 min

Lab File: VV007525.D

Acq: 13 Sep 2018 22:25

Instrument :

MSVOA\_V

ClientSampleId :

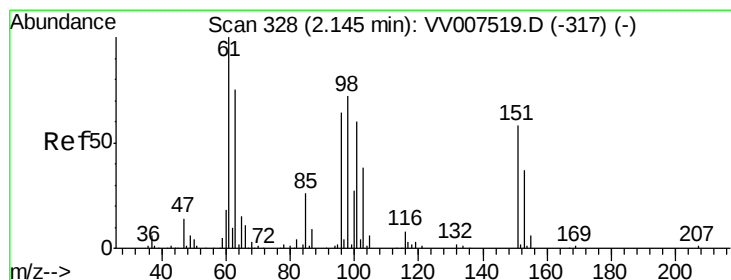
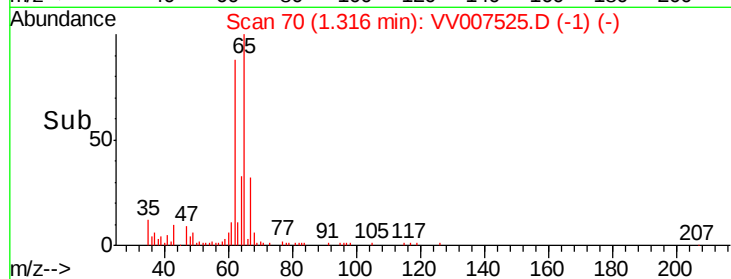
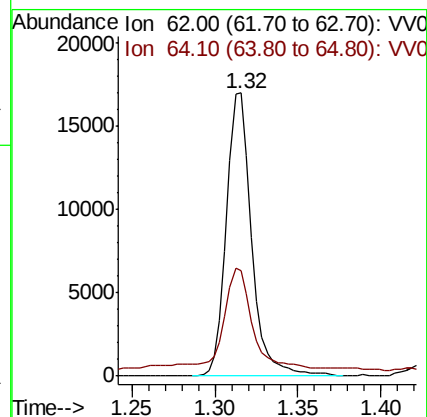
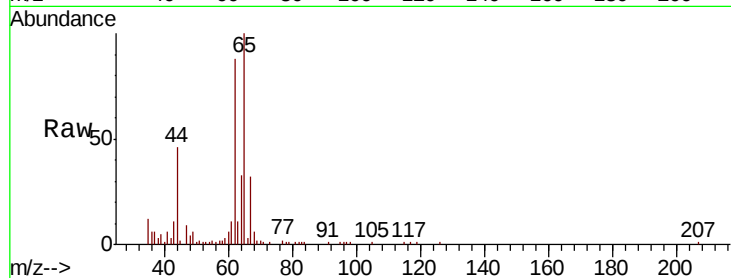
C0D10

Tgt Ion: 62 Resp: 18014

Ion Ratio Lower Upper

62 100

64 37.1 24.4 45.2



#12

1,1-Dichloroethene

Concen: 1.086 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.01 min

Lab File: VV007525.D

Acq: 13 Sep 2018 22:25

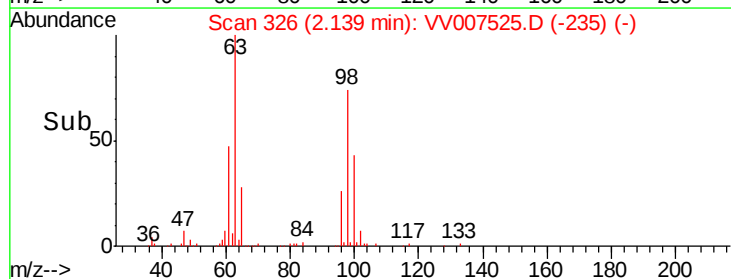
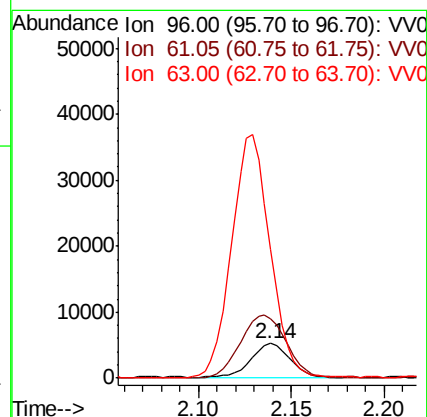
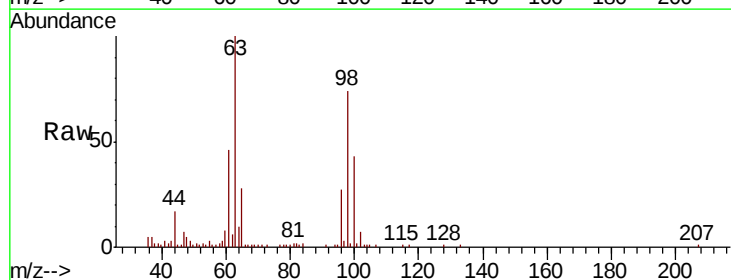
Tgt Ion: 96 Resp: 7428

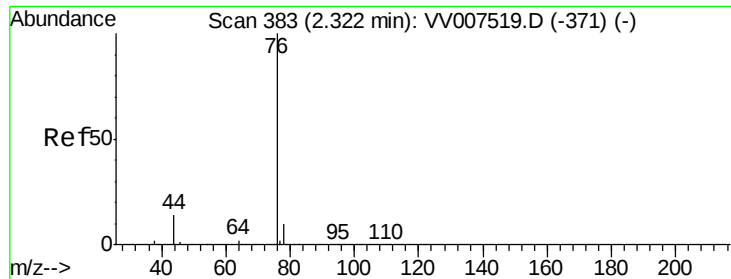
Ion Ratio Lower Upper

96 100

61 171.8 114.8 213.2

63 371.4 81.8 151.8#





#14

Carbon disulfide

Concen: 0.106 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VV007525.D

Acq: 13 Sep 2018 22:25

Instrument :

MSVOA\_V

ClientSampleId :

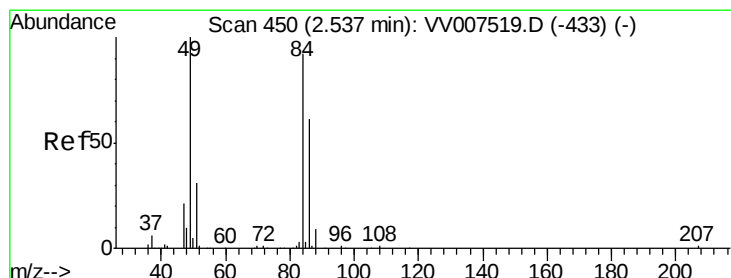
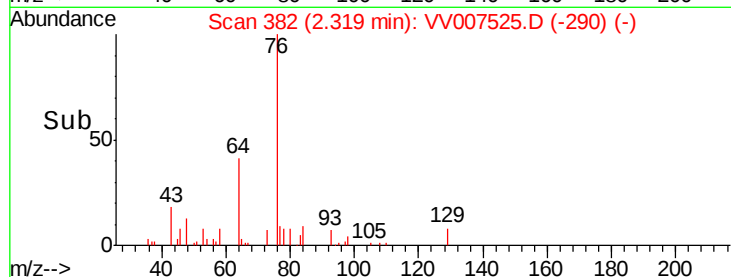
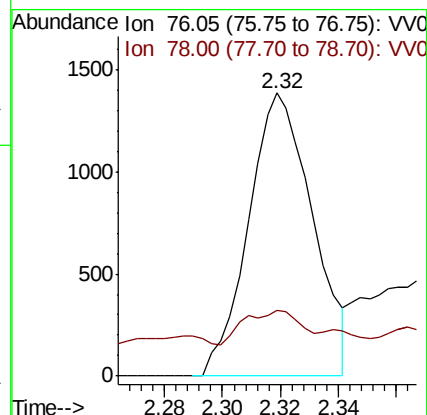
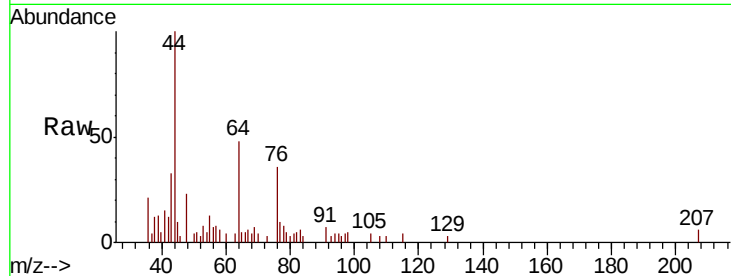
C0D10

Tgt Ion: 76 Resp: 2125

Ion Ratio Lower Upper

76 100

78 23.2 7.4 11.0#



#16

Methylene chloride

Concen: 2.990 ug/L

RT: 2.54 min Scan# 452

Delta R.T. 0.01 min

Lab File: VV007525.D

Acq: 13 Sep 2018 22:25

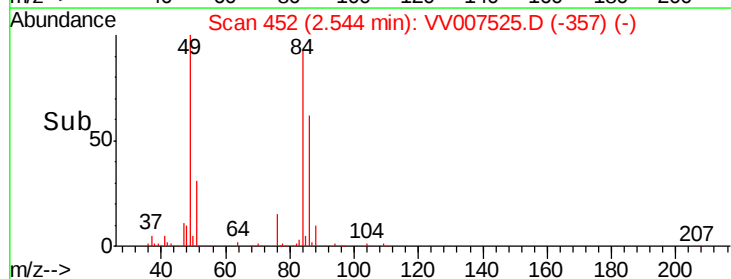
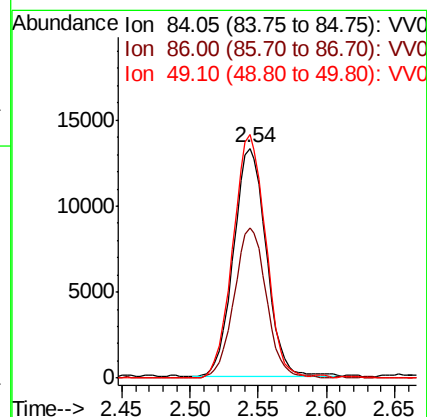
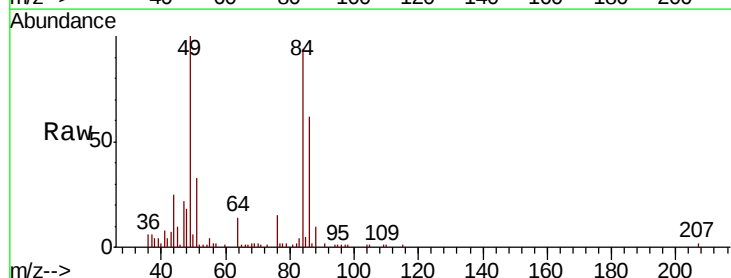
Tgt Ion: 84 Resp: 22107

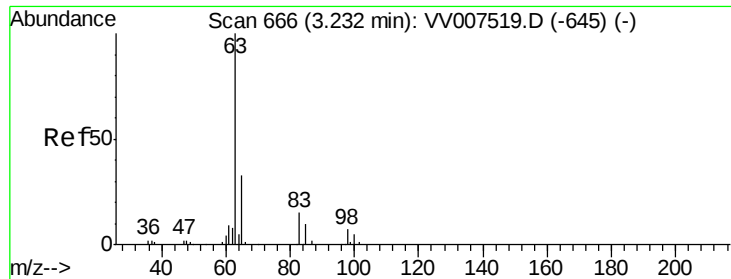
Ion Ratio Lower Upper

84 100

86 65.3 43.7 81.1

49 106.0 76.8 142.6

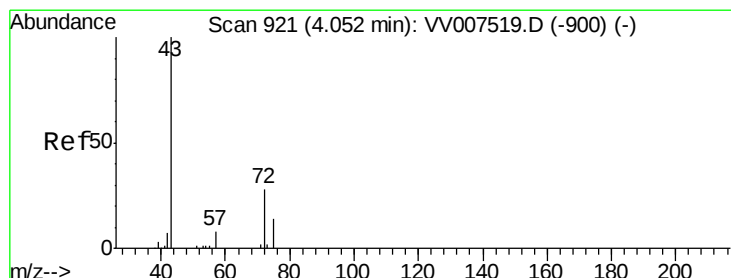
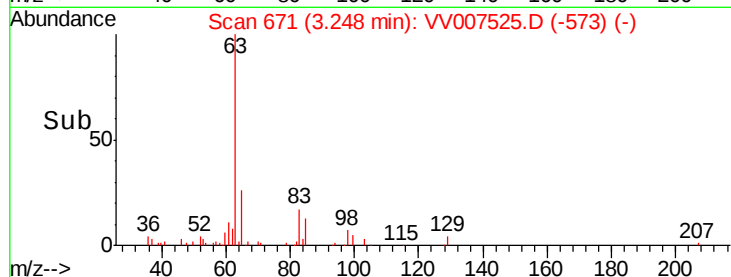
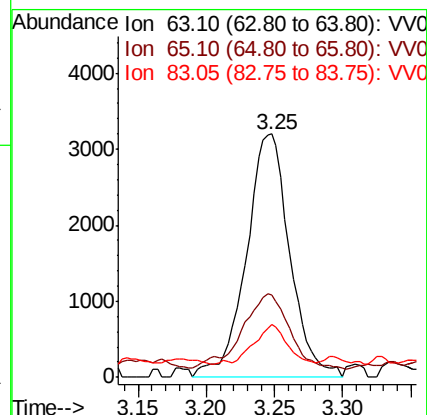
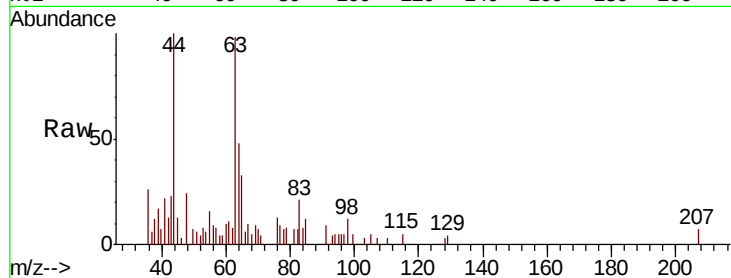




#19  
 1,1-Dichloroethane  
 Concen: 0.652 ug/L  
 RT: 3.25 min Scan# 671  
 Delta R.T. 0.02 min  
 Lab File: VV007525.D  
 Acq: 13 Sep 2018 22:25

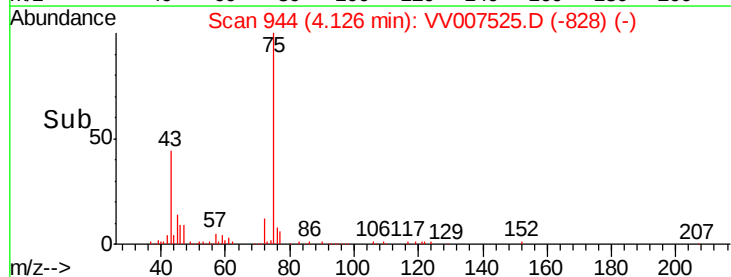
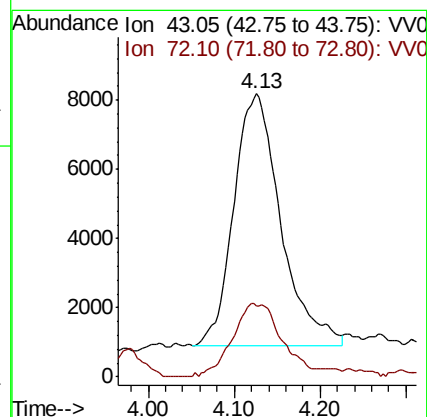
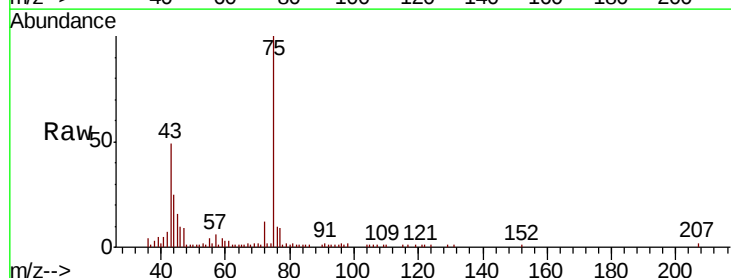
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0D10

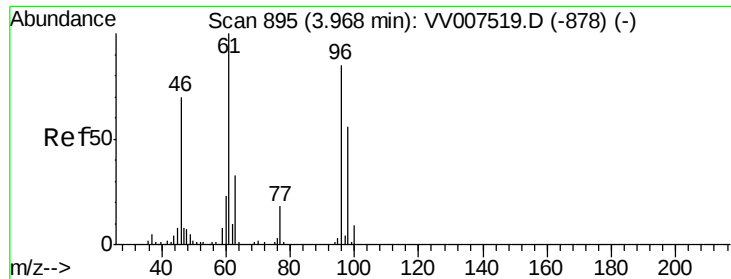
Tgt Ion: 63 Resp: 7078  
 Ion Ratio Lower Upper  
 63 100  
 65 33.6 22.5 41.9  
 83 21.8 10.4 19.2#



#21  
 2-Butanone  
 Concen: 25.788 ug/L  
 RT: 4.13 min Scan# 944  
 Delta R.T. 0.07 min  
 Lab File: VV007525.D  
 Acq: 13 Sep 2018 22:25

Tgt Ion: 43 Resp: 27744  
 Ion Ratio Lower Upper  
 43 100  
 72 15.2 14.2 42.6



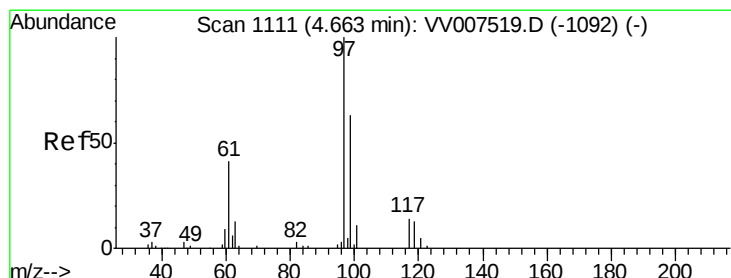
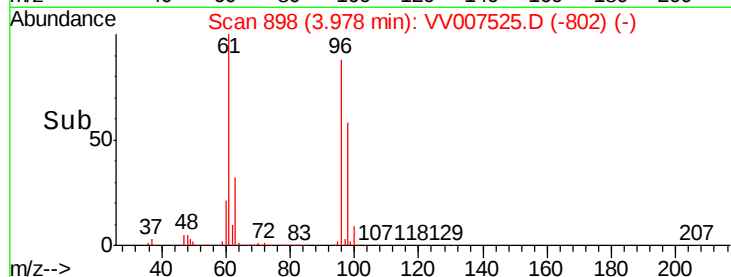
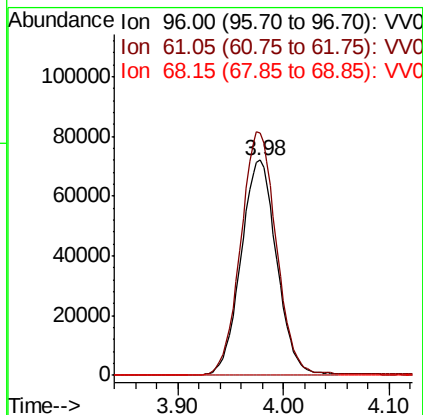
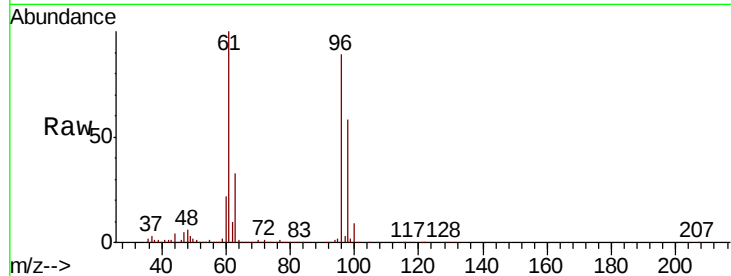


#22

cis-1,2-Dichloroethene  
 Concen: 22.960 ug/L  
 RT: 3.98 min Scan# 898  
 Delta R.T. 0.01 min  
 Lab File: VV007525.D  
 Acq: 13 Sep 2018 22:25

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0D10

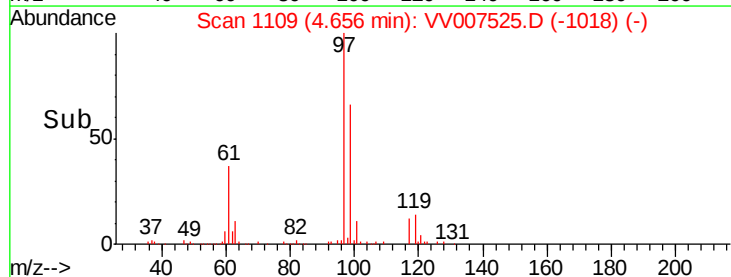
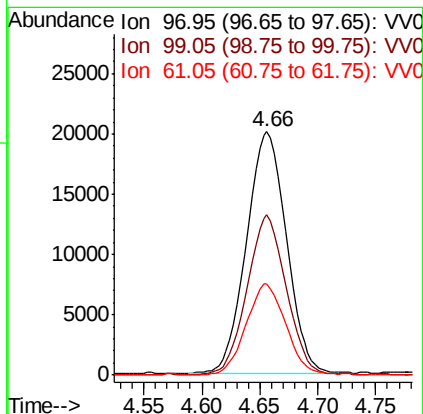
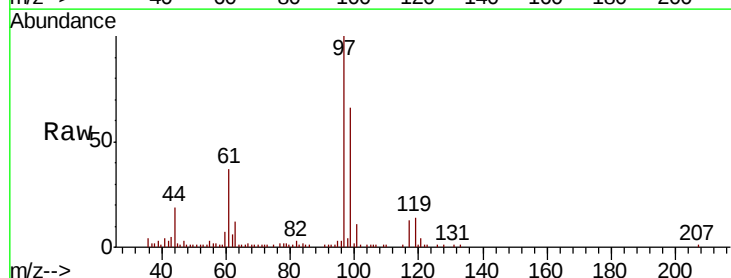
Tgt Ion: 96 Resp: 168414  
 Ion Ratio Lower Upper  
 96 100  
 61 112.9 85.3 158.5  
 68 0.3 0.0 0.0#

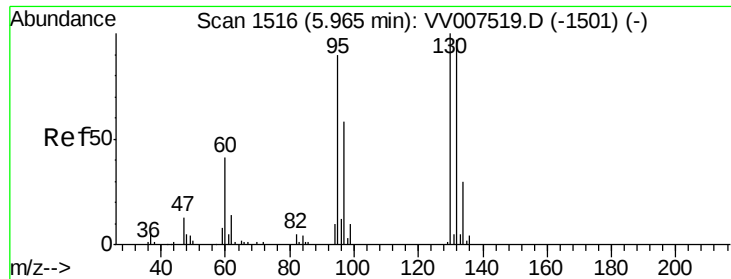


#29

1,1,1-Trichloroethane  
 Concen: 4.041 ug/L  
 RT: 4.66 min Scan# 1109  
 Delta R.T. -0.01 min  
 Lab File: VV007525.D  
 Acq: 13 Sep 2018 22:25

Tgt Ion: 97 Resp: 48361  
 Ion Ratio Lower Upper  
 97 100  
 99 64.8 50.7 76.1  
 61 37.2 32.5 48.7

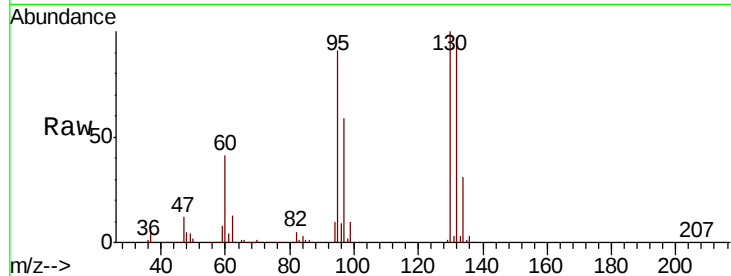




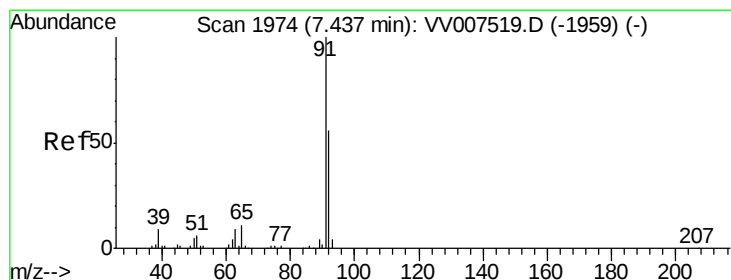
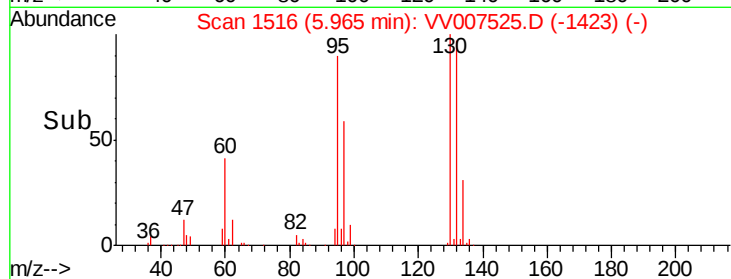
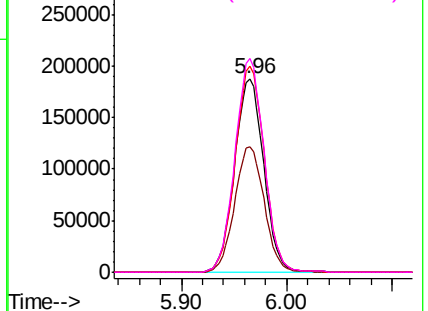
#34  
 Trichloroethene  
 Concen: 46.326 ug/L  
 RT: 5.96 min Scan# 1516  
 Delta R.T. 0.00 min  
 Lab File: VV007525.D  
 Acq: 13 Sep 2018 22:25

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0D10

Tgt Ion: 95 Resp: 361056  
 Ion Ratio Lower Upper  
 95 100  
 97 64.8 45.5 84.5  
 132 106.4 74.9 139.1  
 130 110.2 80.0 148.6

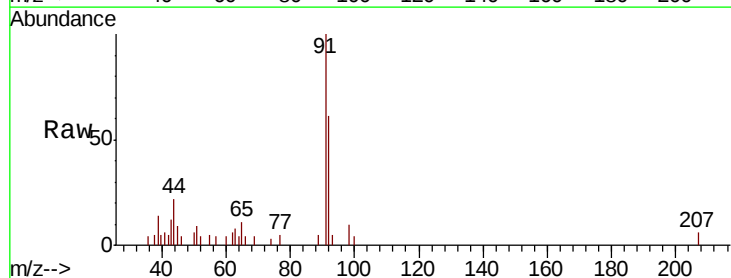


Abundance Ion 95.00 (94.70 to 95.70): VV0  
 Ion 96.95 (96.65 to 97.65): VV0  
 Ion 131.95 (131.65 to 132.65): VV0  
 Ion 129.95 (129.65 to 130.65): VV0

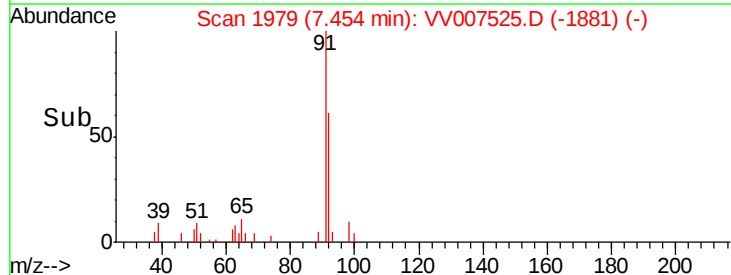
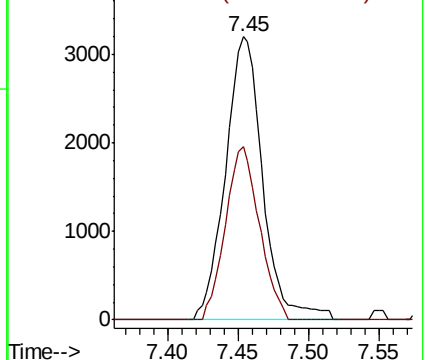


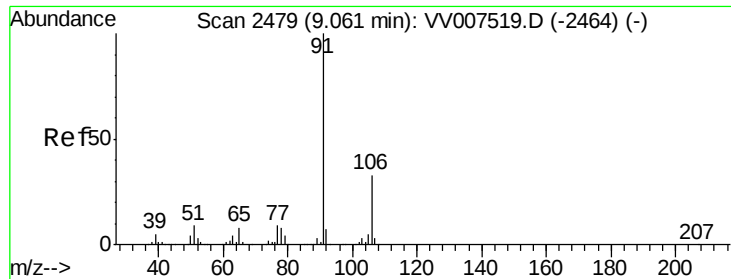
#42  
 Toluene  
 Concen: 0.201 ug/L  
 RT: 7.45 min Scan# 1979  
 Delta R.T. 0.02 min  
 Lab File: VV007525.D  
 Acq: 13 Sep 2018 22:25

Tgt Ion: 91 Resp: 5907  
 Ion Ratio Lower Upper  
 91 100  
 92 61.1 40.3 74.8



Abundance Ion 91.15 (90.85 to 91.85): VV0  
 Ion 92.15 (91.85 to 92.85): VV0





#52

Ethylbenzene

Concen: 0.403 ug/L

RT: 9.07 min Scan# 2481

Delta R.T. 0.01 min

Lab File: VV007525.D

Acq: 13 Sep 2018 22:25

Instrument :

MSVOA\_V

ClientSampleId :

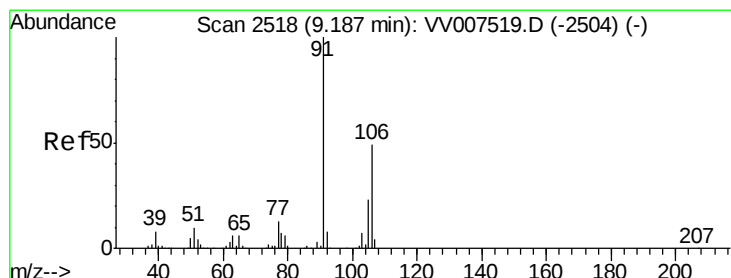
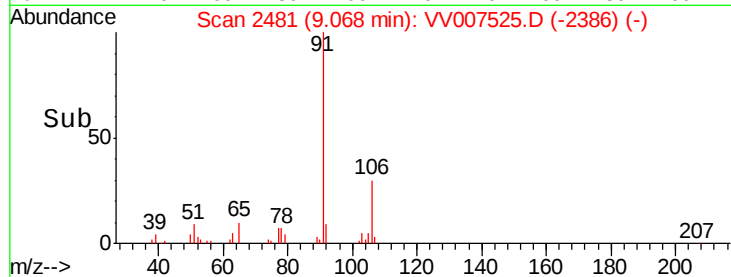
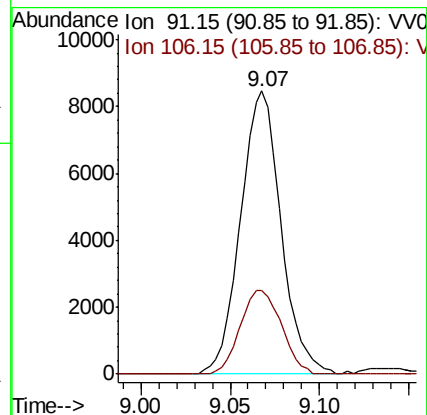
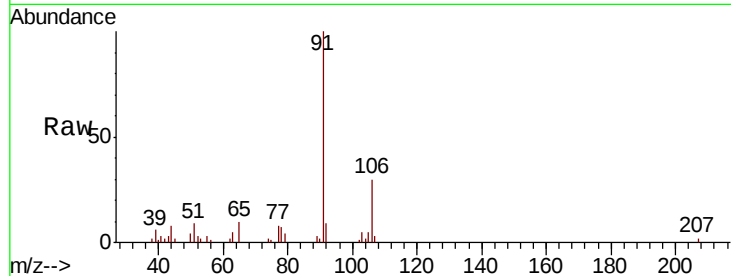
C0D10

Tgt Ion: 91 Resp: 13342

Ion Ratio Lower Upper

91 100

106 29.7 22.0 41.0



#53

m,p-xylene

Concen: 1.416 ug/L

RT: 9.19 min Scan# 2519

Delta R.T. 0.00 min

Lab File: VV007525.D

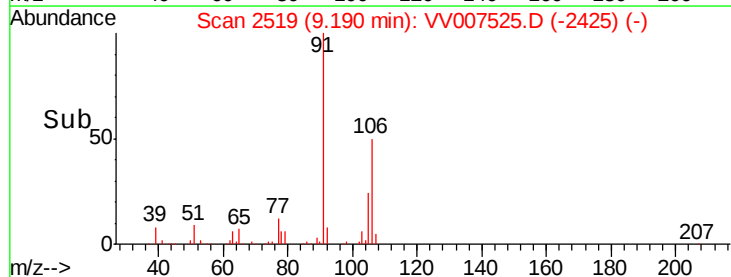
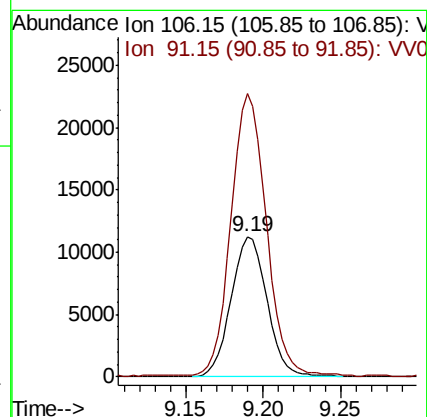
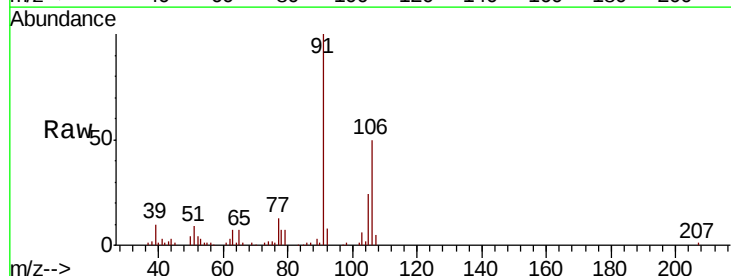
Acq: 13 Sep 2018 22:25

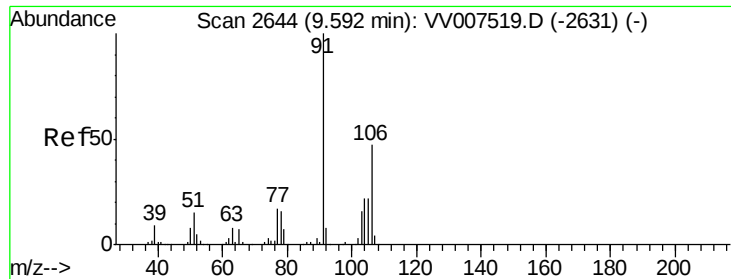
Tgt Ion: 106 Resp: 18142

Ion Ratio Lower Upper

106 100

91 201.6 137.2 254.8





#54  
 o-xylene  
 Concen: 0.463 ug/L  
 RT: 9.60 min Scan# 2646  
 Delta R.T. 0.01 min  
 Lab File: VV007525.D  
 Acq: 13 Sep 2018 22:25

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0D10

Tgt Ion:106 Resp: 5811  
 Ion Ratio Lower Upper  
 106 100  
 91 222.9 147.6 274.0

