

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV092318\  
 Data File : VV007749.D  
 Acq On : 22 Sep 2018 21:37  
 Operator : SY/MD  
 Sample : J5012-16  
 Misc : 5.0 mL/MSVOA\_V/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C08Q5

Quant Time: Sep 24 02:36:24 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM092318WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Sep 24 02:35:10 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 183263   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 175417   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 92550    | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 39719    | 39.88    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 79.76% |
| 7) Chloroethane-d5             | 1.59    | 69    | 39730    | 43.89    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 87.78% |
| 11) 1,1-Dichloroethene-d2      | 2.14    | 63    | 77206    | 32.88    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 65.76% |
| 21) 2-Butanone-d5              | 3.95    | 46    | 54678    | 83.12    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 83.12% |
| 24) Chloroform-d               | 4.41    | 84    | 90989    | 42.67    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 85.34% |
| 26) 1,2-Dichloroethane-d4      | 5.09    | 65    | 61028    | 44.87    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.74% |
| 32) Benzene-d6                 | 5.11    | 84    | 182732   | 45.32    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.64% |
| 36) 1,2-Dichloropropane-d6     | 6.13    | 67    | 55161    | 46.33    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 92.66% |
| 41) Toluene-d8                 | 7.36    | 98    | 187226   | 44.44    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 88.88% |
| 43) trans-1,3-Dichloropropene- | 7.67    | 79    | 22646    | 37.72    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 75.44% |
| 47) 2-Hexanone-d5              | 8.14    | 63    | 43317    | 82.61    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 82.61% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27   | 84    | 79040    | 42.53    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 85.06% |
| 64) 1,2-Dichlorobenzene-d4     | 11.68   | 152   | 85412    | 44.86    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 89.72% |

## Target Compounds

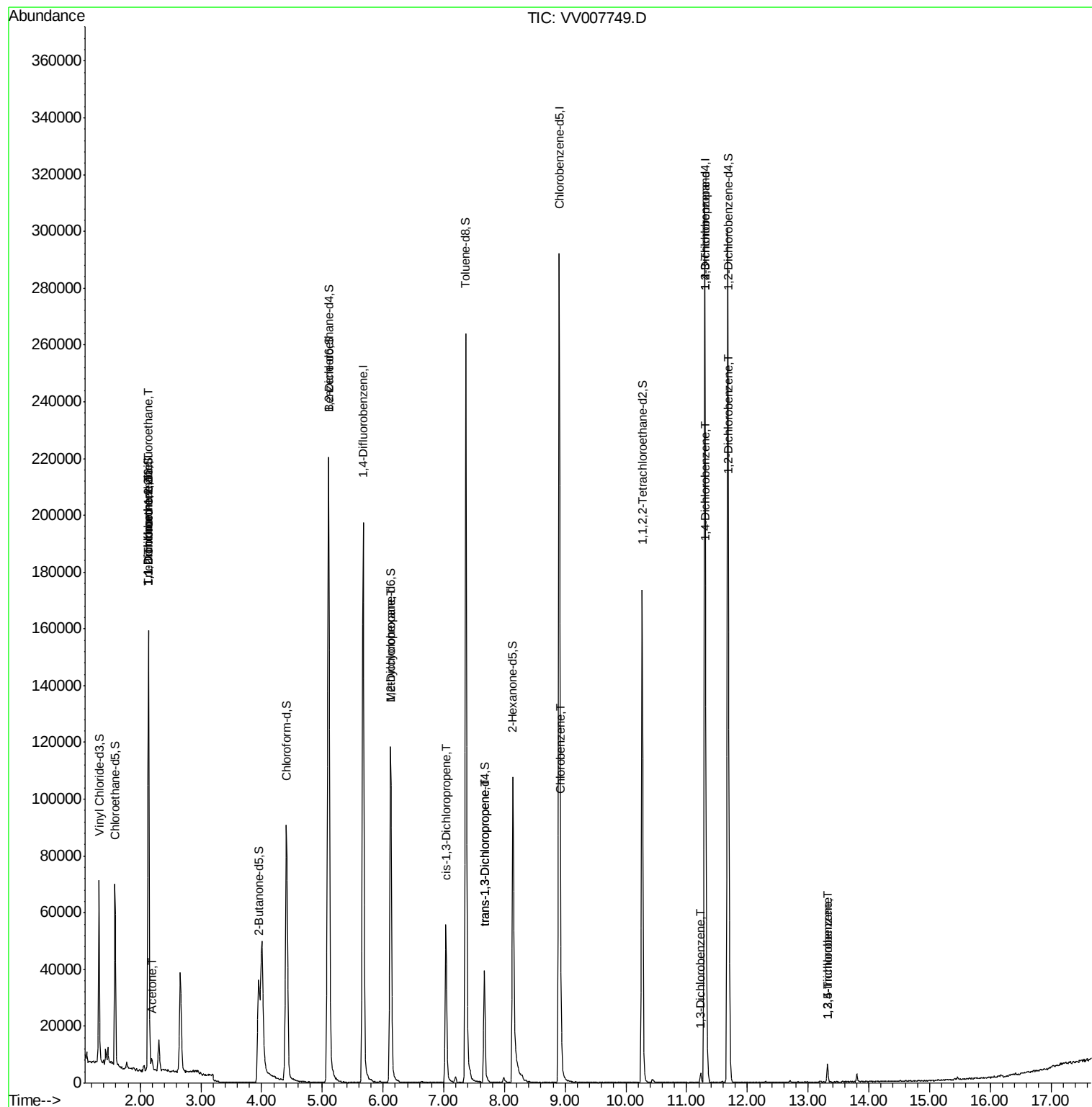
|                                |       |     |       |              | Qvalue |
|--------------------------------|-------|-----|-------|--------------|--------|
| 9) Trichlorofluoromethane      | 2.14  | 101 | 960   | 0.393 ug/L # | 35     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14  | 101 | 960   | 0.693 ug/L # | 14     |
| 12) 1,1-Dichloroethene         | 2.14  | 96  | 694   | 0.571 ug/L # | 1      |
| 13) Acetone                    | 2.19  | 43  | 1719  | 2.476 ug/L   | 97     |
| 35) Methylcyclohexane          | 6.13  | 83  | 13652 | 7.173 ug/L # | 22     |
| 39) cis-1,3-Dichloropropene    | 7.04  | 75  | 1747  | 1.027 ug/L # | 78     |
| 44) trans-1,3-Dichloropropene  | 7.67  | 75  | 1196  | 0.741 ug/L # | 72     |
| 51) Chlorobenzene              | 8.93  | 112 | 10203 | 2.844 ug/L   | 98     |
| 59) 1,2,3-Trichloropropane     | 11.30 | 75  | 11164 | 7.463 ug/L   | 96     |
| 62) 1,3-Dichlorobenzene        | 11.23 | 146 | 1858  | 0.633 ug/L   | 90     |
| 63) 1,4-Dichlorobenzene        | 11.32 | 146 | 8628  | 2.835 ug/L   | 94     |
| 65) 1,2-Dichlorobenzene        | 11.70 | 146 | 19122 | 6.445 ug/L   | 98     |
| 67) 1,3,5-Trichlorobenzene     | 13.32 | 180 | 2576  | 1.045 ug/L   | 98     |
| 68) 1,2,4-trichlorobenzene     | 13.32 | 180 | 2576  | 1.165 ug/L   | 99     |

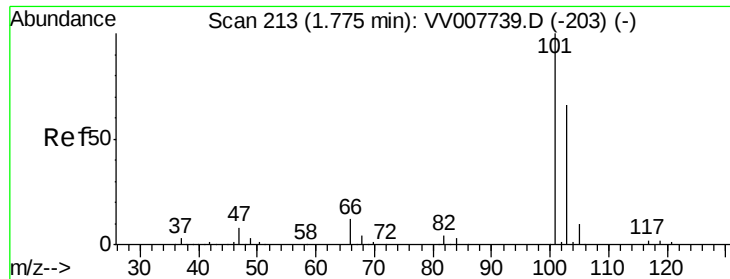
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_V\DATA\VV092318\  
Data File : VV007749.D  
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Sample : J5012-16  
Misc : 5.0 mL/MSVOA\_V/WATER  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
C08Q5

Quant Time: Sep 24 02:36:24 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM092318WMA.M  
Quant Title : VOC Analysis  
QLast Update : Mon Sep 24 02:35:10 2018  
Response via : Initial Calibration



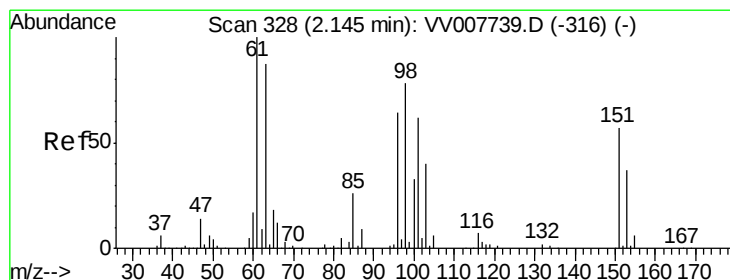
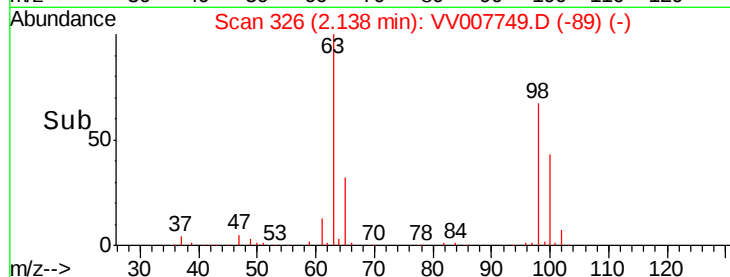
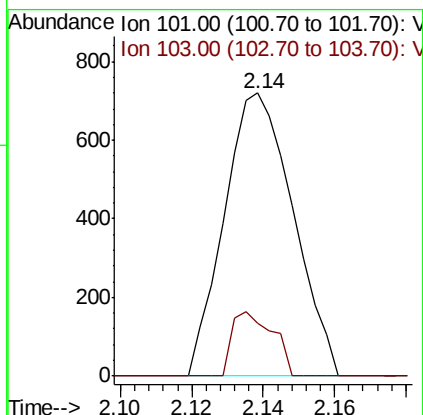
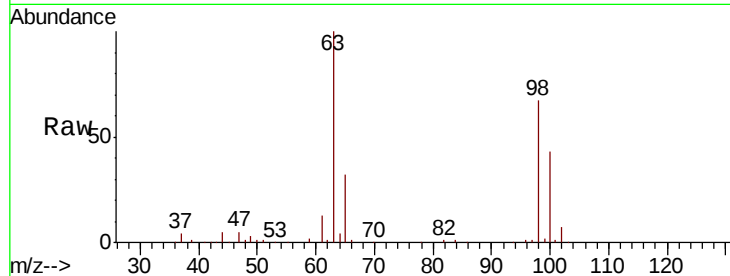


#9

Trichlorofluoromethane  
 Concen: 0.393 ug/L  
 RT: 2.14 min Scan# 326  
 Delta R.T. 0.36 min  
 Lab File: VV007749.D  
 Acq: 22 Sep 2018 21:37

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C08Q5

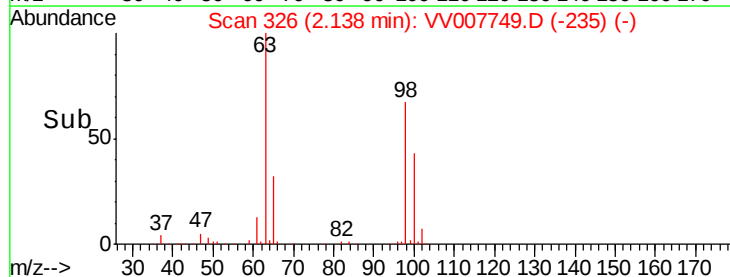
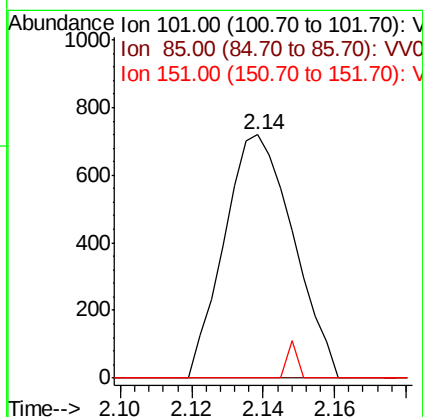
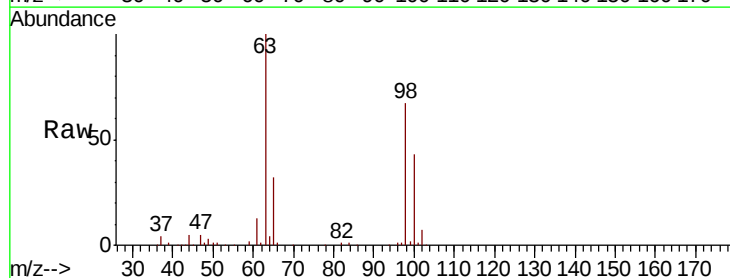
Tgt Ion:101 Resp: 960  
 Ion Ratio Lower Upper  
 101 100  
 103 13.4 51.4 77.2#

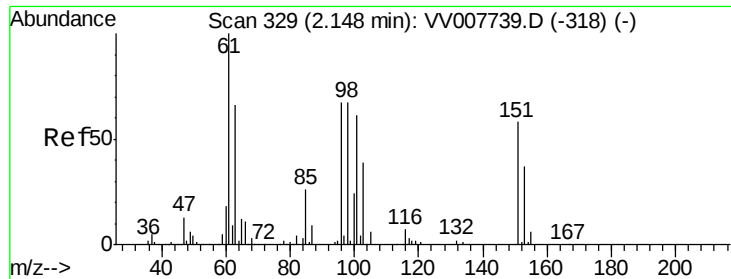


#10

1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 0.693 ug/L  
 RT: 2.14 min Scan# 326  
 Delta R.T. -0.01 min  
 Lab File: VV007749.D  
 Acq: 22 Sep 2018 21:37

Tgt Ion:101 Resp: 960  
 Ion Ratio Lower Upper  
 101 100  
 85 0.0 32.7 49.1#  
 151 0.0 72.2 108.2#





#12

1,1-Dichloroethene

Concen: 0.571 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.01 min

Lab File: VV007749.D

Acq: 22 Sep 2018 21:37

Instrument :

MSVOA\_V

ClientSampled :

C08Q5

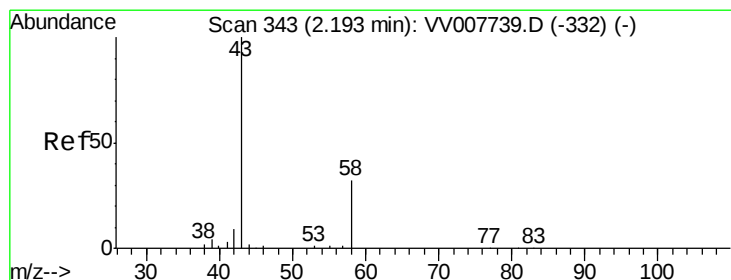
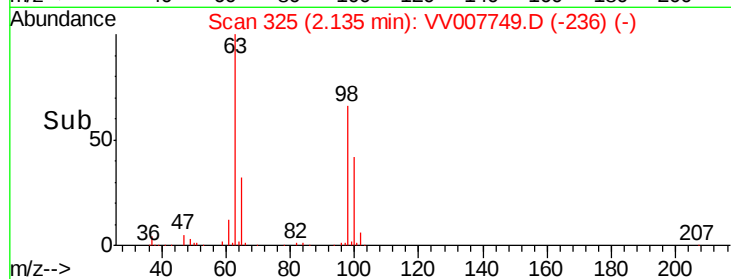
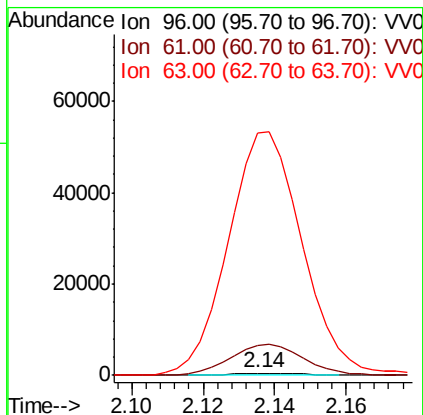
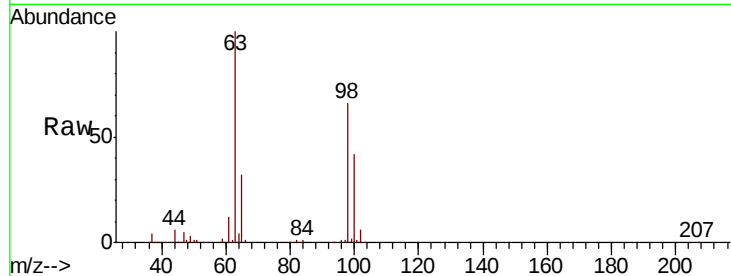
Tgt Ion: 96 Resp: 694

Ion Ratio Lower Upper

96 100

61 1321.4 107.3 199.3#

63 10674.2 78.8 146.4#



#13

Acetone

Concen: 2.476 ug/L

RT: 2.19 min Scan# 343

Delta R.T. -0.00 min

Lab File: VV007749.D

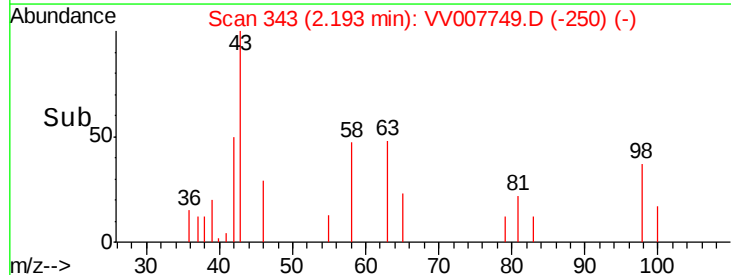
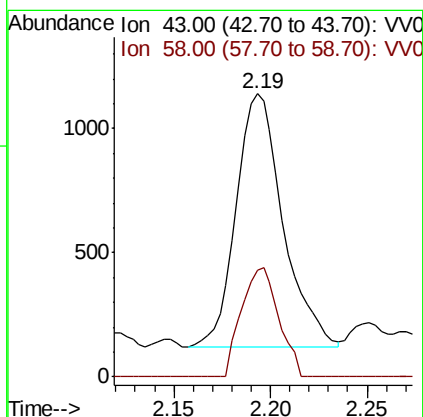
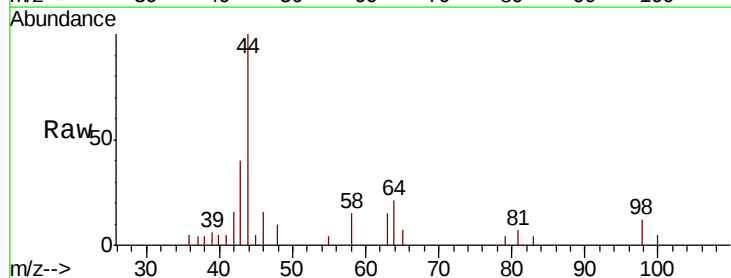
Acq: 22 Sep 2018 21:37

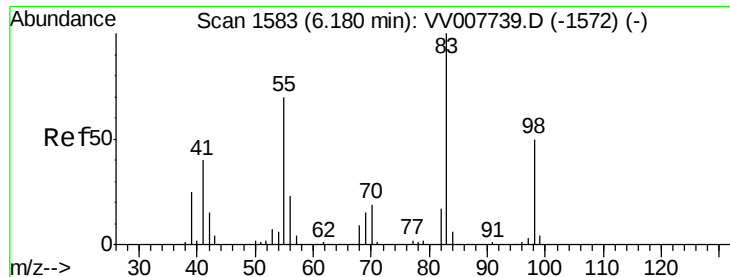
Tgt Ion: 43 Resp: 1719

Ion Ratio Lower Upper

43 100

58 34.1 0.0 65.2

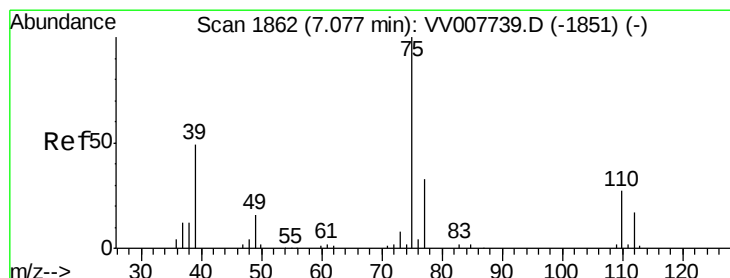
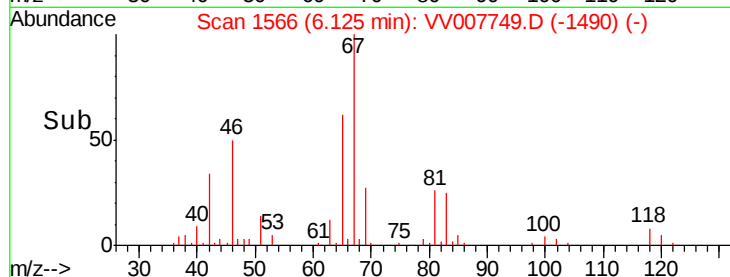
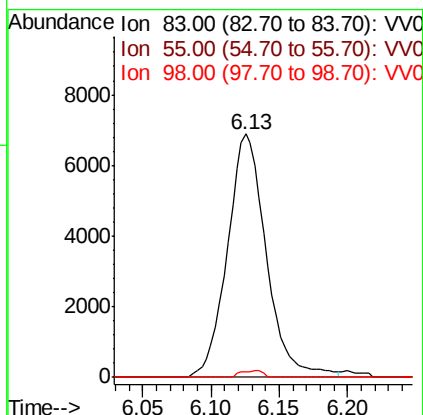
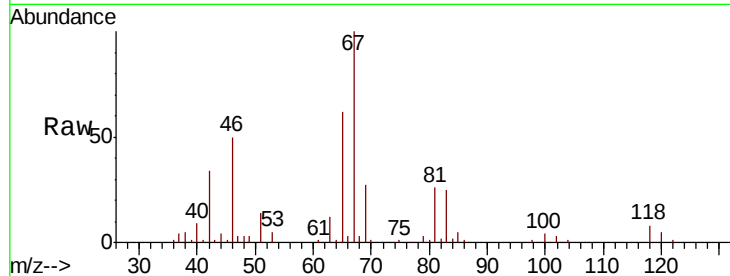




#35  
Methylcyclohexane  
Concen: 7.173 ug/L  
RT: 6.13 min Scan# 1566  
Delta R.T. -0.05 min  
Lab File: VV007749.D  
Acq: 22 Sep 2018 21:37

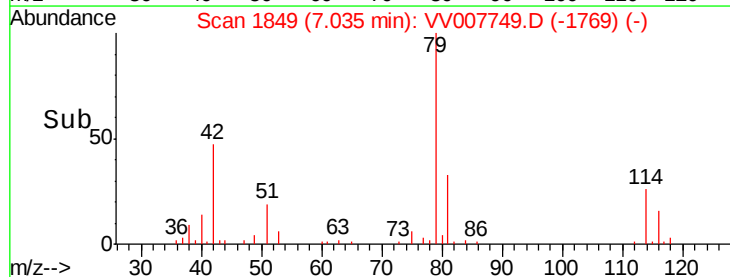
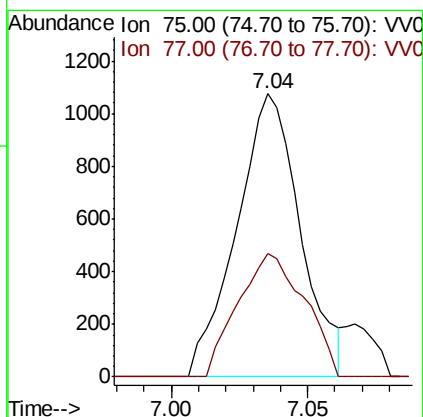
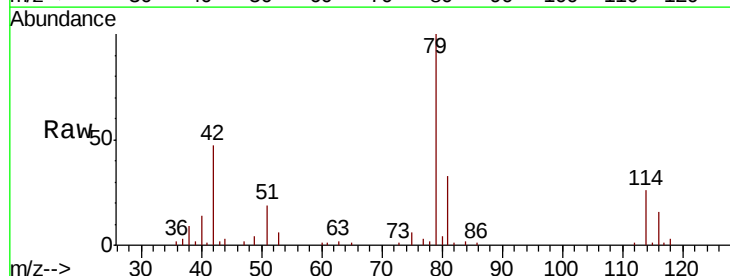
Instrument :  
MSVOA\_V  
ClientSampleId :  
C08Q5

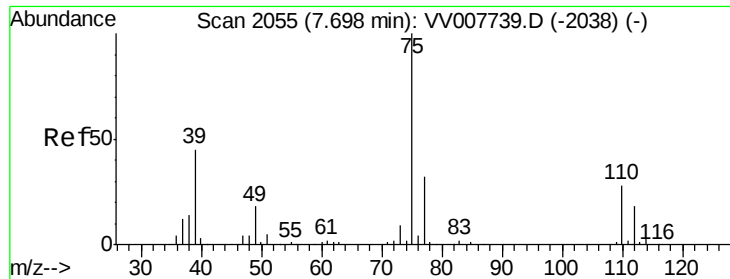
Tgt Ion: 83 Resp: 13652  
Ion Ratio Lower Upper  
83 100  
55 0.0 54.6 82.0#  
98 1.6 39.0 58.6#



#39  
cis-1,3-Dichloropropene  
Concen: 1.027 ug/L  
RT: 7.04 min Scan# 1849  
Delta R.T. -0.04 min  
Lab File: VV007749.D  
Acq: 22 Sep 2018 21:37

Tgt Ion: 75 Resp: 1747  
Ion Ratio Lower Upper  
75 100  
77 43.4 22.0 40.8#





#44

trans-1,3-Dichloropropene

Concen: 0.741 ug/L

RT: 7.67 min Scan# 2045

Delta R.T. -0.03 min

Lab File: VV007749.D

Acq: 22 Sep 2018 21:37

Instrument :

MSVOA\_V

ClientSampleId :

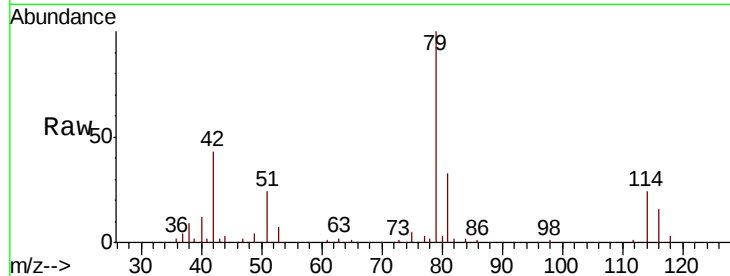
C08Q5

Tgt Ion: 75 Resp: 1196

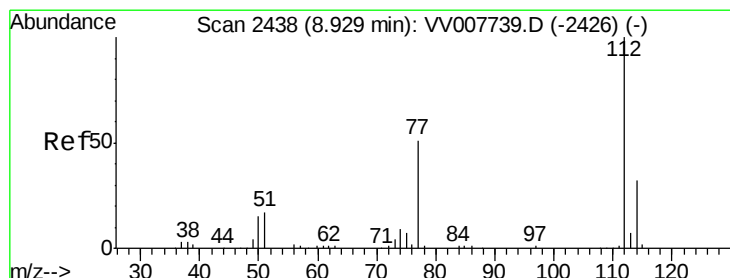
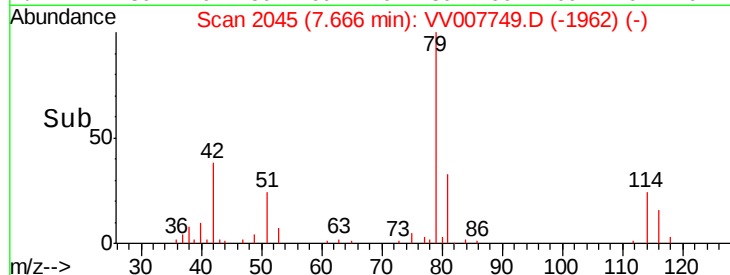
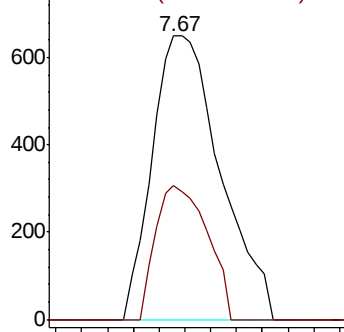
Ion Ratio Lower Upper

75 100

77 47.1 22.0 40.8#



Abundance Ion 75.00 (74.70 to 75.70): VV007739.D (-2038) (-)



#51

Chlorobenzene

Concen: 2.844 ug/L

RT: 8.93 min Scan# 2438

Delta R.T. -0.00 min

Lab File: VV007749.D

Acq: 22 Sep 2018 21:37

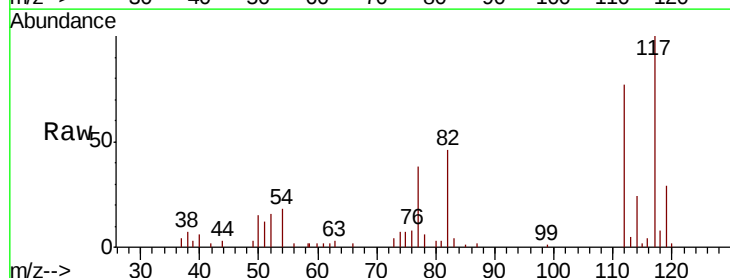
Tgt Ion: 112 Resp: 10203

Ion Ratio Lower Upper

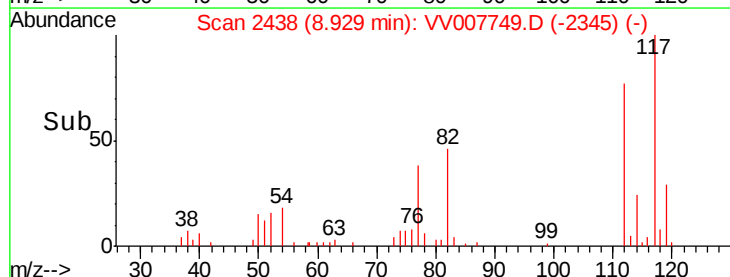
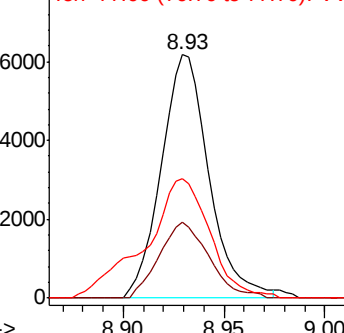
112 100

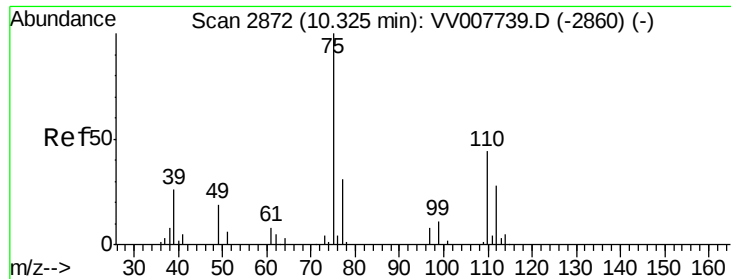
114 31.3 22.3 41.3

77 49.0 40.6 60.8



Abundance Ion 112.00 (111.70 to 112.70): VV007739.D (-2426) (-)





#59

1,2,3-Trichloropropane

Concen: 7.463 ug/L

RT: 11.30 min Scan# 3175

Delta R.T. 0.97 min

Lab File: VV007749.D

Acq: 22 Sep 2018 21:37

Instrument :

MSVOA\_V

ClientSampled :

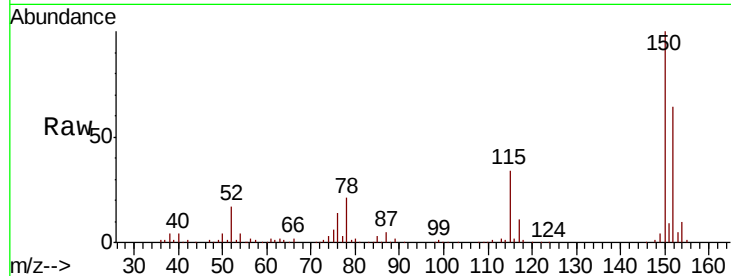
C08Q5

Tgt Ion: 75 Resp: 11164

Ion Ratio Lower Upper

75 100

77 34.4 25.6 38.4



Abundance Ion 75.00 (74.70 to 75.70): VV007739.D (-2860) (-)

Ion 77.00 (76.70 to 77.70): VV007739.D (-2860) (-)

11.30

6000

5000

4000

3000

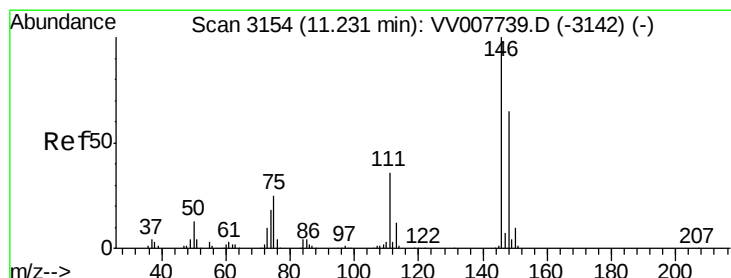
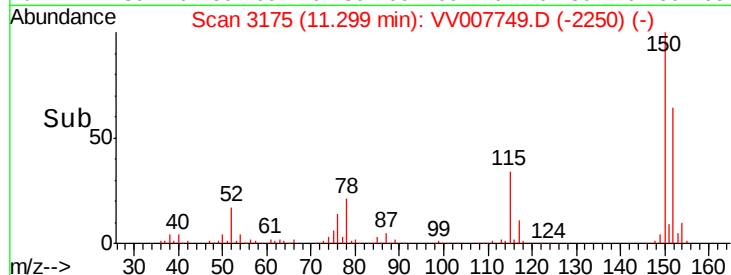
2000

1000

0

11.25 11.30 11.35

Time-->



#62

1,3-Dichlorobenzene

Concen: 0.633 ug/L

RT: 11.23 min Scan# 3153

Delta R.T. -0.00 min

Lab File: VV007749.D

Acq: 22 Sep 2018 21:37

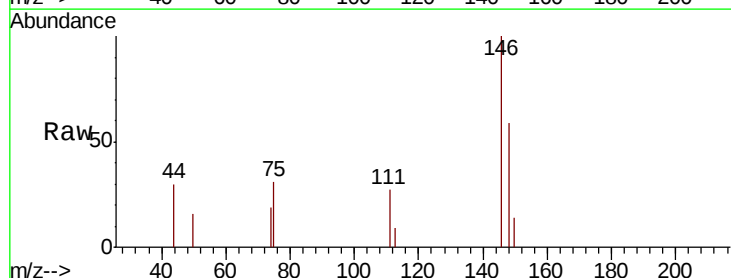
Tgt Ion: 146 Resp: 1858

Ion Ratio Lower Upper

146 100

111 26.7 25.1 46.7

148 59.5 45.1 83.9



Abundance Ion 146.00 (145.70 to 146.70): VV007739.D (-3142) (-)

Ion 111.00 (110.70 to 111.70): VV007739.D (-3142) (-)

Ion 148.00 (147.70 to 148.70): VV007739.D (-3142) (-)

11.23

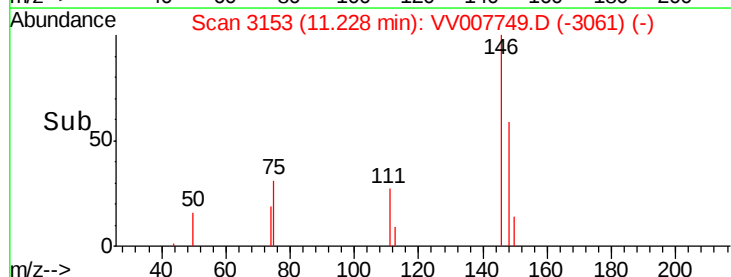
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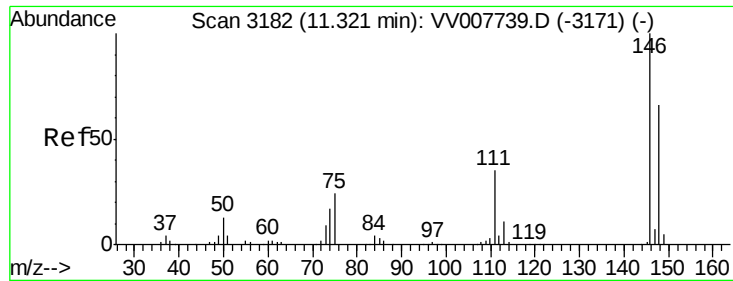
500

0

11.20 11.25

Time-->

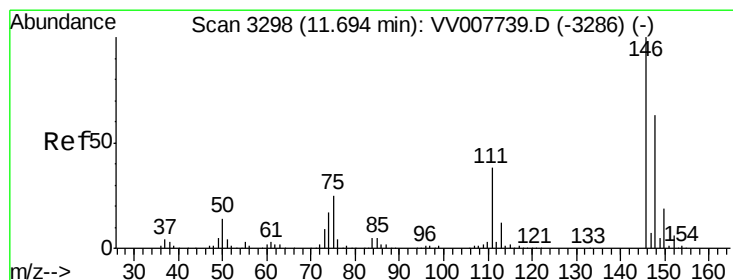
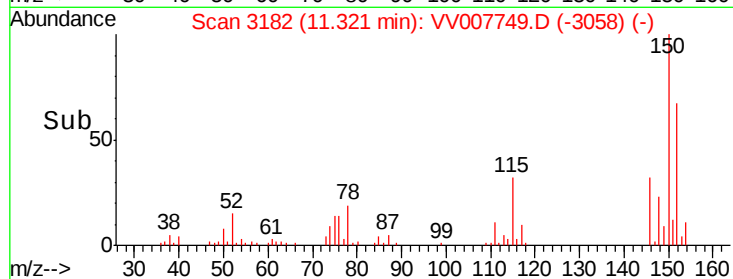
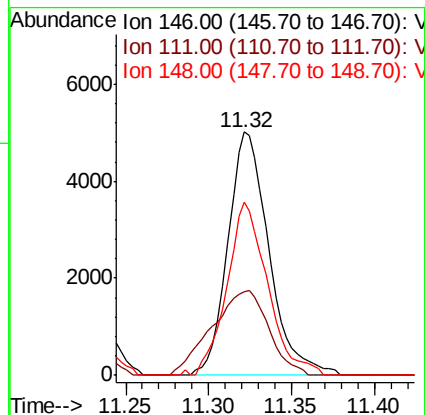
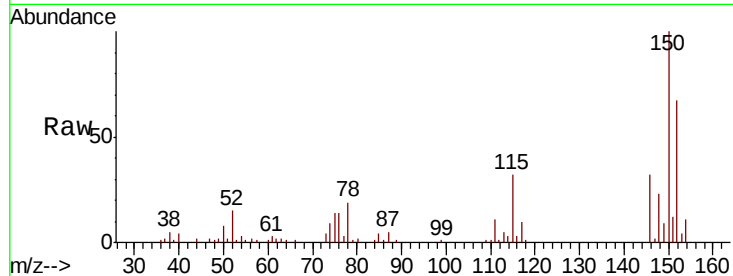




#63  
 1,4-Dichlorobenzene  
 Concen: 2.835 ug/L  
 RT: 11.32 min Scan# 3182  
 Delta R.T. -0.00 min  
 Lab File: VV007749.D  
 Acq: 22 Sep 2018 21:37

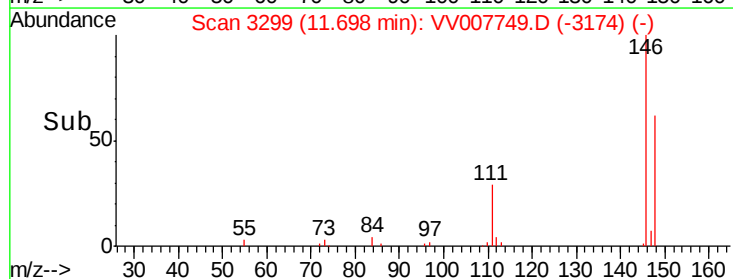
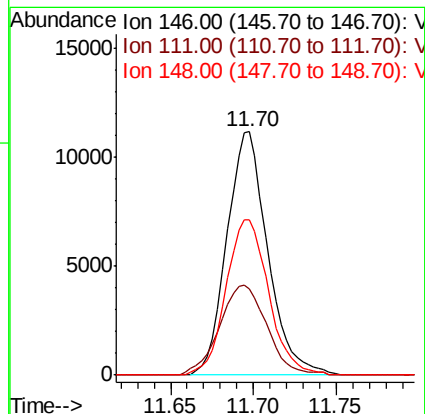
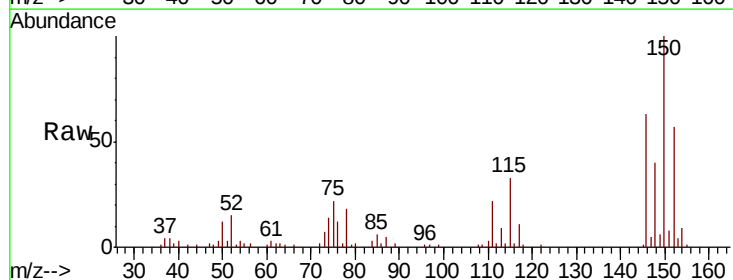
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C08Q5

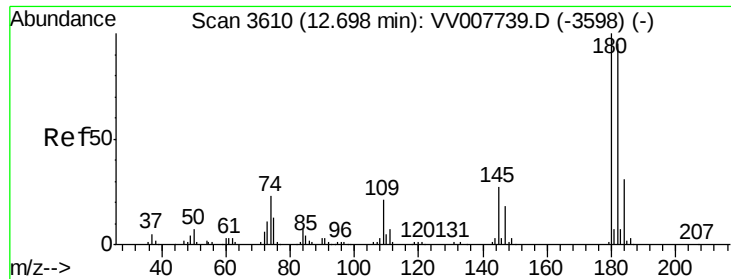
Tgt Ion:146 Resp: 8628  
 Ion Ratio Lower Upper  
 146 100  
 111 34.2 24.4 45.4  
 148 71.2 45.1 83.7



#65  
 1,2-Dichlorobenzene  
 Concen: 6.445 ug/L  
 RT: 11.70 min Scan# 3299  
 Delta R.T. 0.00 min  
 Lab File: VV007749.D  
 Acq: 22 Sep 2018 21:37

Tgt Ion:146 Resp: 19122  
 Ion Ratio Lower Upper  
 146 100  
 111 35.3 29.8 44.8  
 148 64.0 50.8 76.2

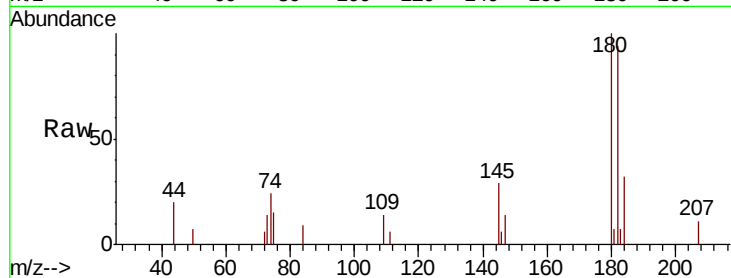




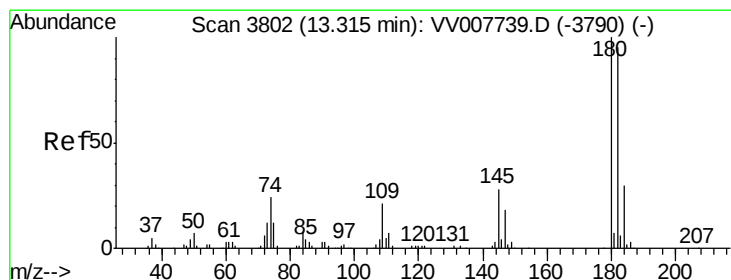
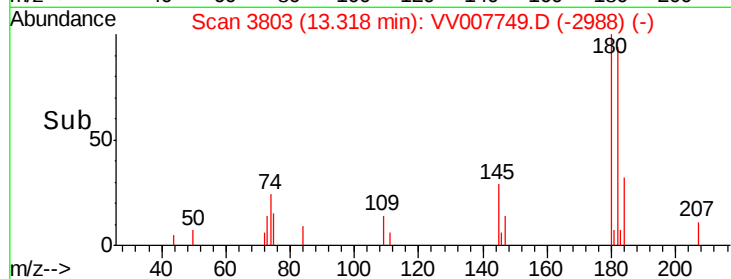
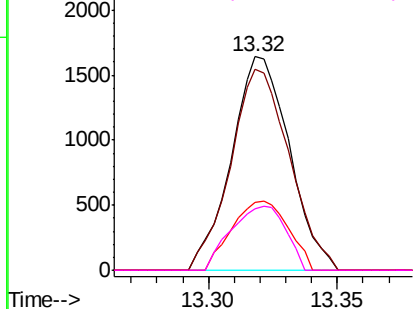
#67  
 1,3,5-Trichlorobenzene  
 Concen: 1.045 ug/L  
 RT: 13.32 min Scan# 3803  
 Delta R.T. 0.62 min  
 Lab File: VV007749.D  
 Acq: 22 Sep 2018 21:37

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C08Q5

Tgt Ion:180 Resp: 2576  
 Ion Ratio Lower Upper  
 180 100  
 182 95.3 77.6 116.4  
 184 31.4 24.7 37.1  
 145 28.2 21.8 32.8

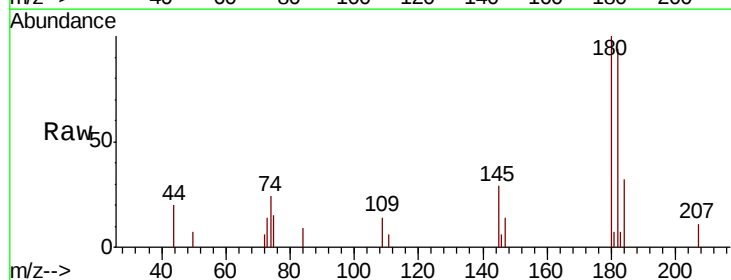


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V



#68  
 1,2,4-trichlorobenzene  
 Concen: 1.165 ug/L  
 RT: 13.32 min Scan# 3803  
 Delta R.T. 0.00 min  
 Lab File: VV007749.D  
 Acq: 22 Sep 2018 21:37

Tgt Ion:180 Resp: 2576  
 Ion Ratio Lower Upper  
 180 100  
 182 95.3 77.0 115.6  
 145 28.2 22.2 33.2



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

