

Data File : VV008455.D  
Acq On : 29 Oct 2018 15:52  
Operator : SY/MD  
Sample : J5669-18  
Misc : 5.0 mL/MSVOA\_V/WATER  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
ETBR0

Quant Time: Oct 30 07:44:56 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102318WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Oct 30 07:40:49 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 191810   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 175912   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 72894    | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 47582    | 44.80    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 89.60% |
| 7) Chloroethane-d5             | 1.56    | 69    | 36171    | 47.17    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 94.34% |
| 11) 1,1-Dichloroethene-d2      | 2.13    | 63    | 65412    | 34.10    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 68.20% |
| 21) 2-Butanone-d5              | 3.94    | 46    | 110462   | 95.71    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 95.71% |
| 24) Chloroform-d               | 4.41    | 84    | 121403   | 46.35    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.70% |
| 26) 1,2-Dichloroethane-d4      | 5.09    | 65    | 84458    | 48.23    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.46% |
| 32) Benzene-d6                 | 5.10    | 84    | 246999   | 49.27    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.54% |
| 36) 1,2-Dichloropropane-d6     | 6.12    | 67    | 84848    | 48.76    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 97.52% |
| 41) Toluene-d8                 | 7.36    | 98    | 221405   | 48.64    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 97.28% |
| 43) trans-1,3-Dichloropropene- | 7.67    | 79    | 40905    | 48.39    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 96.78% |
| 47) 2-Hexanone-d5              | 8.14    | 63    | 83919    | 92.36    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 92.36% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26   | 84    | 113763   | 48.27    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 96.54% |
| 64) 1,2-Dichlorobenzene-d4     | 11.68   | 152   | 74357    | 49.87    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 99.74% |

#### Target Compounds

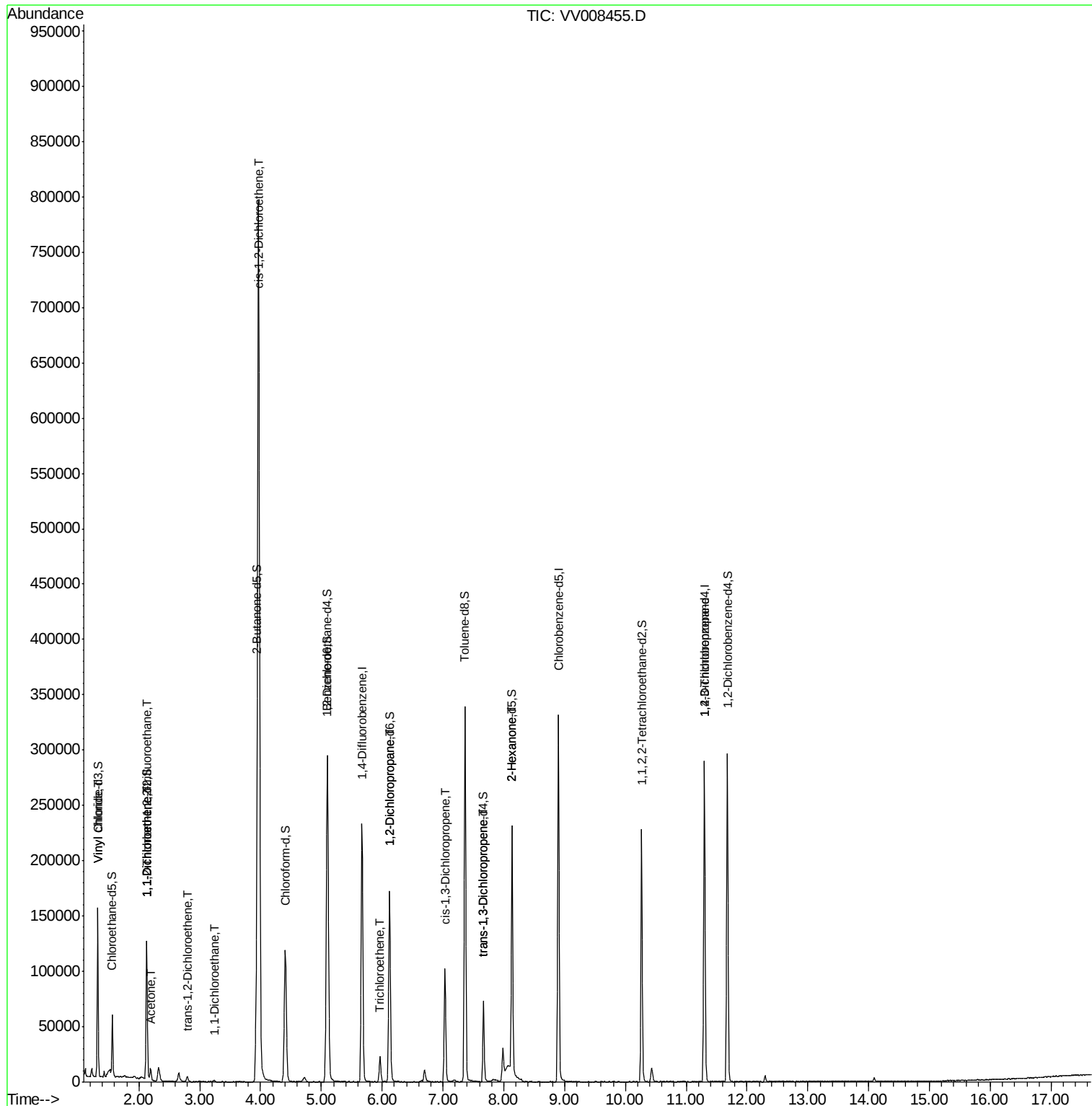
|                                |       |     |        |         |        | Qvalue |
|--------------------------------|-------|-----|--------|---------|--------|--------|
| 5) Vinyl chloride              | 1.33  | 62  | 50494  | 37.142  | ug/L   | 97     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13  | 101 | 530    | 0.580   | ug/L # | 20     |
| 12) 1,1-Dichloroethene         | 2.14  | 96  | 1398   | 1.624   | ug/L # | 1      |
| 13) Acetone                    | 2.19  | 43  | 8066   | 9.005   | ug/L   | 99     |
| 17) trans-1,2-Dichloroethene   | 2.80  | 96  | 1922   | 1.465   | ug/L   | 85     |
| 19) 1,1-Dichloroethane         | 3.23  | 63  | 1680   | 0.621   | ug/L # | 85     |
| 20) cis-1,2-Dichloroethene     | 3.97  | 96  | 428750 | 286.871 | ug/L   | 95     |
| 34) Trichloroethene            | 5.96  | 95  | 8361   | 5.679   | ug/L   | 98     |
| 37) 1,2-Dichloropropane        | 6.12  | 63  | 9188   | 5.786   | ug/L # | 89     |
| 39) cis-1,3-Dichloropropene    | 7.03  | 75  | 2568   | 1.029   | ug/L # | 75     |
| 44) trans-1,3-Dichloropropene  | 7.67  | 75  | 1624   | 0.695   | ug/L # | 76     |
| 48) 2-Hexanone                 | 8.14  | 43  | 9385   | 5.172   | ug/L # | 67     |
| 59) 1,2,3-Trichloropropane     | 11.30 | 75  | 9643   | 4.845   | ug/L   | 92     |

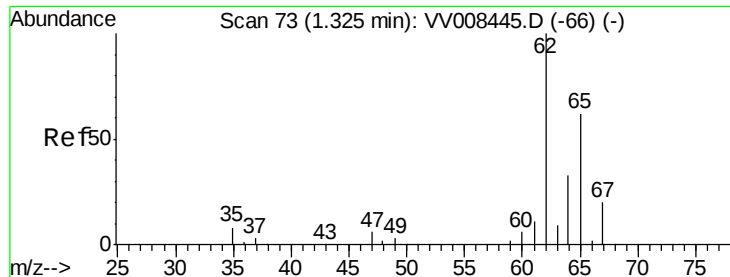
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Tue Oct 30 07:40:49 2018  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 37.142 ug/L

RT: 1.33 min Scan# 73

Delta R.T. -0.00 min

Lab File: VV008455.D

Acq: 29 Oct 2018 15:52

Instrument :

MSVOA\_V

ClientSampleId :

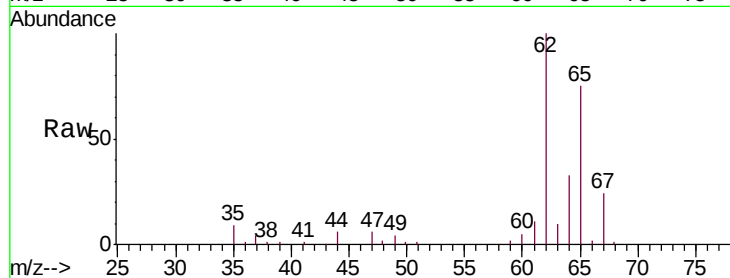
ETBR0

Tgt Ion: 62 Resp: 50494

Ion Ratio Lower Upper

62 100

64 33.3 24.4 45.4

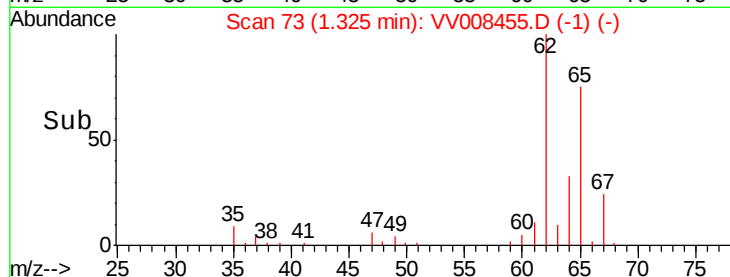


Abundance Ion 62.00 (61.70 to 62.70): VV008445.D (-66) (-)

Ion 64.00 (63.70 to 64.70): VV008445.D (-66) (-)

1.33

Time-->



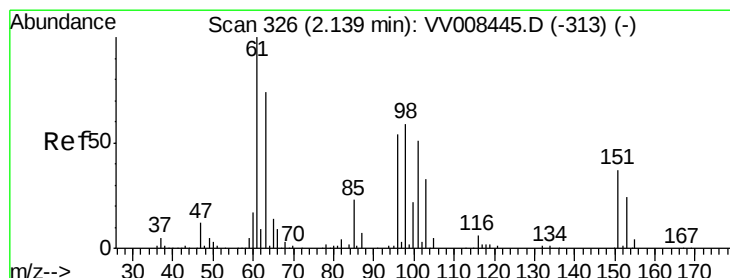
Abundance

Ion 62.00 (61.70 to 62.70): VV008445.D (-1) (-)

Ion 64.00 (63.70 to 64.70): VV008445.D (-1) (-)

1.33

Time-->



#10

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

Concen: 0.580 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.01 min

Lab File: VV008455.D

Acq: 29 Oct 2018 15:52

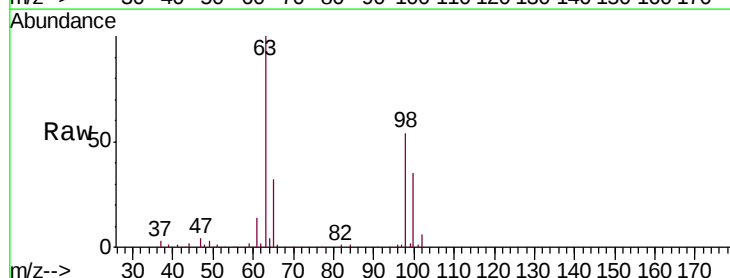
Tgt Ion: 101 Resp: 530

Ion Ratio Lower Upper

101 100

85 0.0 35.6 53.4#

151 0.0 58.1 87.1#



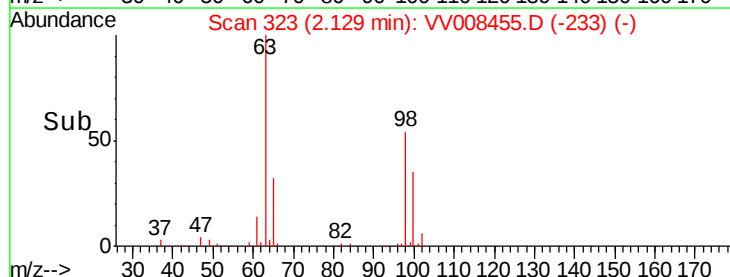
Abundance Ion 101.00 (100.70 to 101.70): VV008445.D (-313) (-)

Ion 85.00 (84.70 to 85.70): VV008445.D (-313) (-)

Ion 151.00 (150.70 to 151.70): VV008445.D (-313) (-)

2.13

Time-->



Abundance

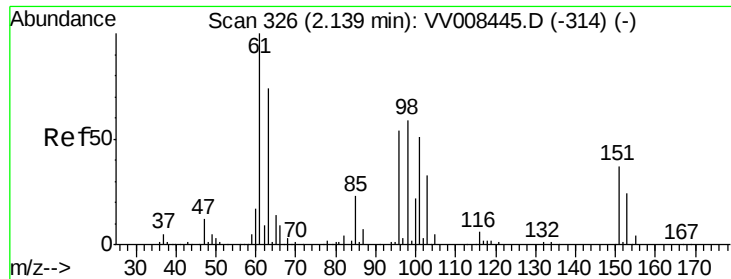
Ion 101.00 (100.70 to 101.70): VV008445.D (-233) (-)

Ion 85.00 (84.70 to 85.70): VV008445.D (-233) (-)

Ion 151.00 (150.70 to 151.70): VV008445.D (-233) (-)

2.13

Time-->



#12

1,1-Dichloroethene

Concen: 1.624 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV008455.D

Acq: 29 Oct 2018 15:52

Instrument :

MSVOA\_V

ClientSampled :

ETBR0

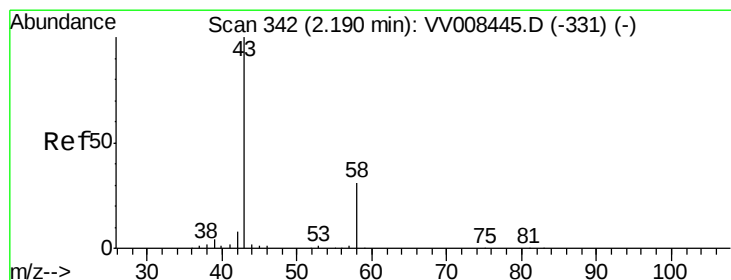
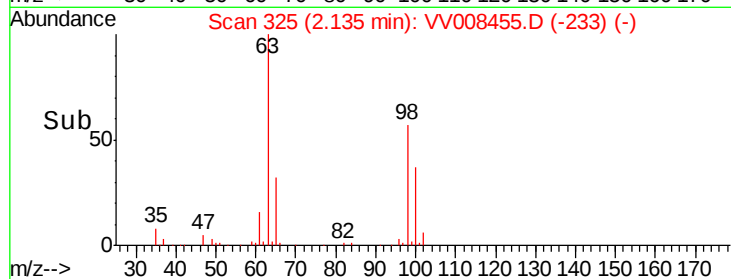
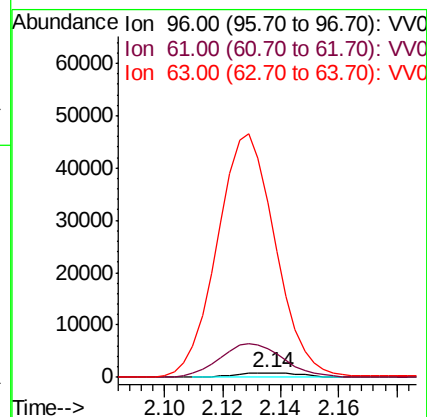
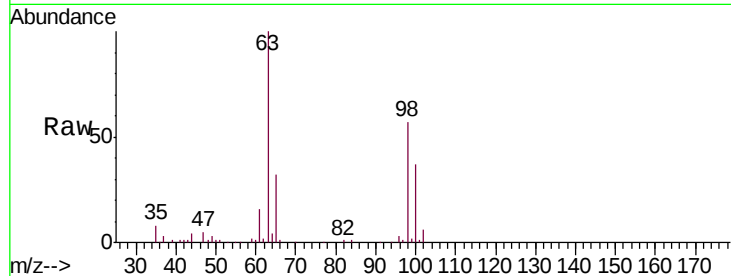
Tgt Ion: 96 Resp: 1398

Ion Ratio Lower Upper

96 100

61 602.0 130.3 242.1#

63 3692.7 84.4 156.8#



#13

Acetone

Concen: 9.005 ug/L

RT: 2.19 min Scan# 343

Delta R.T. 0.00 min

Lab File: VV008455.D

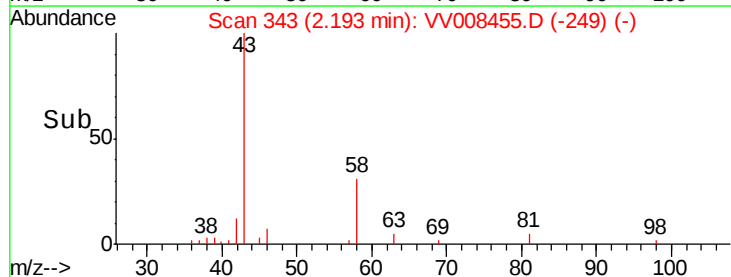
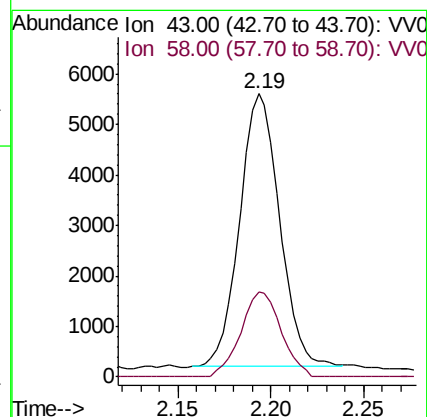
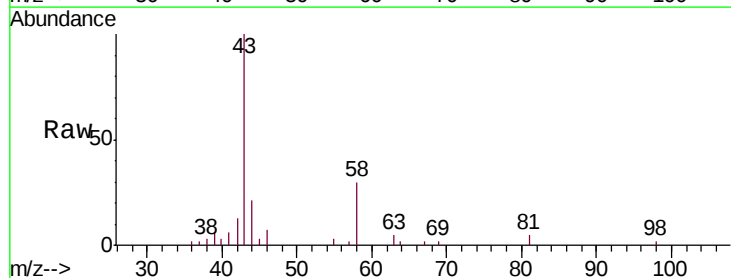
Acq: 29 Oct 2018 15:52

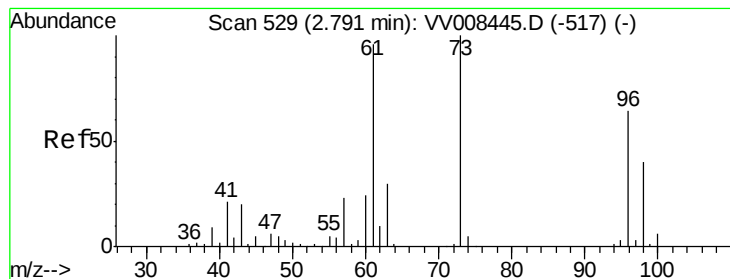
Tgt Ion: 43 Resp: 8066

Ion Ratio Lower Upper

43 100

58 31.5 0.0 61.4





#17

trans-1,2-Dichloroethene

Concen: 1.465 ug/L

RT: 2.80 min Scan# 531

Delta R.T. 0.01 min

Lab File: VV008455.D

Acq: 29 Oct 2018 15:52

Instrument :

MSVOA\_V

ClientSampled :

ETBR0

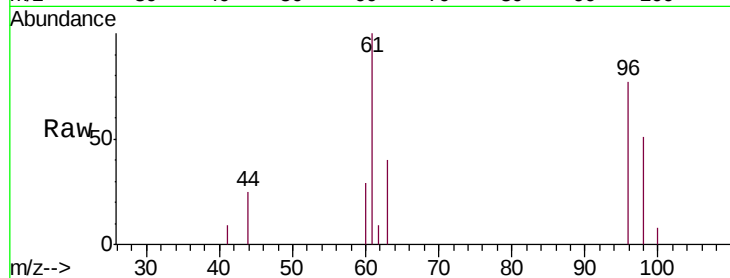
Tgt Ion: 96 Resp: 1922

Ion Ratio Lower Upper

96 100

61 129.6 108.6 201.6

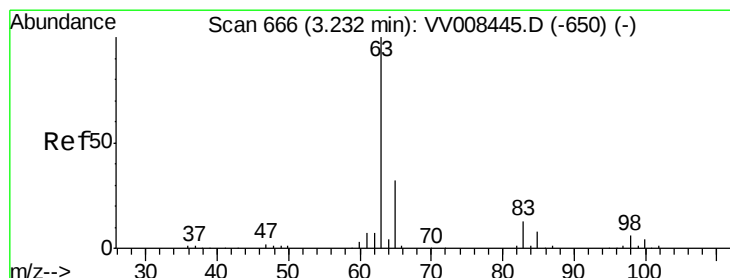
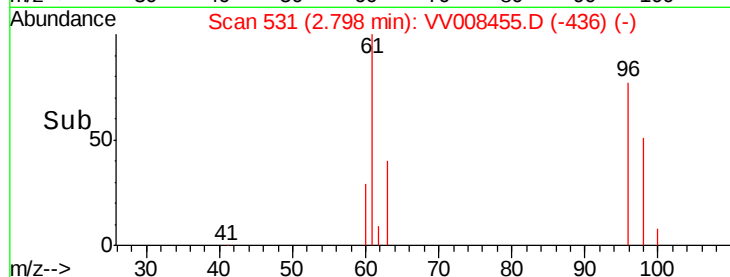
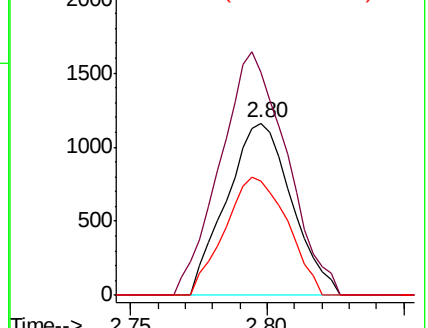
98 66.2 44.3 82.3



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



#19

1,1-Dichloroethane

Concen: 0.621 ug/L

RT: 3.23 min Scan# 667

Delta R.T. 0.00 min

Lab File: VV008455.D

Acq: 29 Oct 2018 15:52

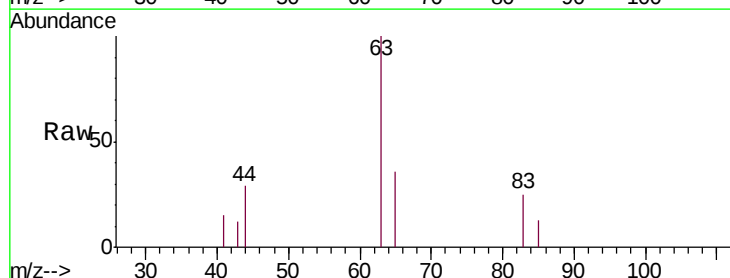
Tgt Ion: 63 Resp: 1680

Ion Ratio Lower Upper

63 100

65 36.4 22.0 40.8

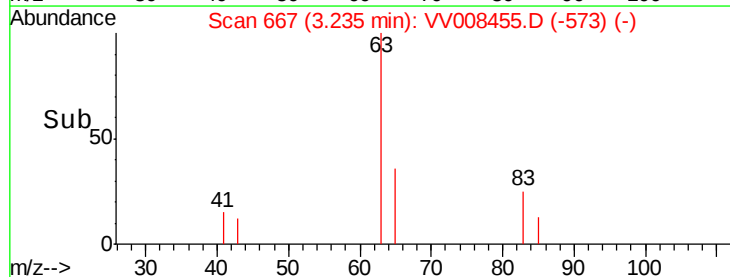
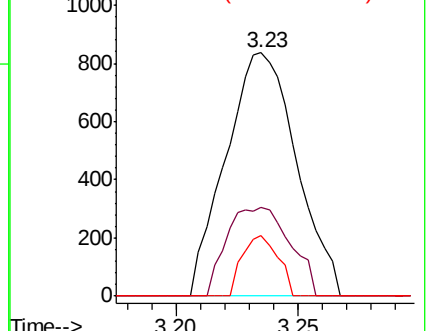
83 24.7 9.3 17.3#

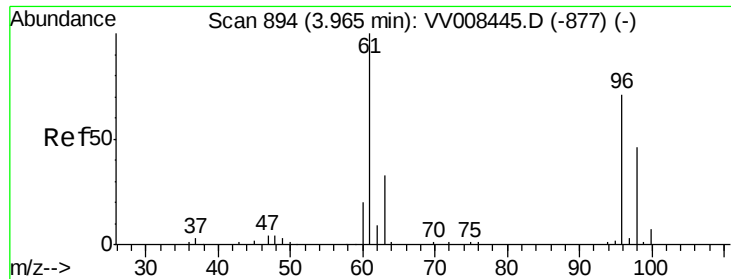


Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 65.00 (64.70 to 65.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

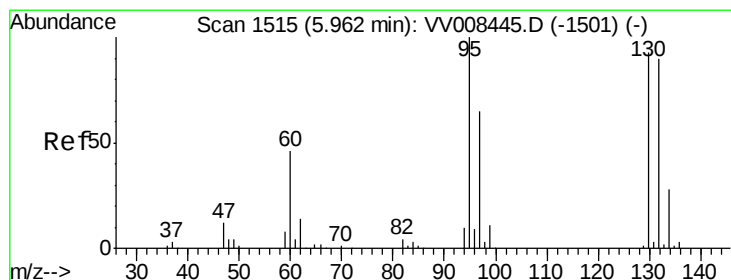
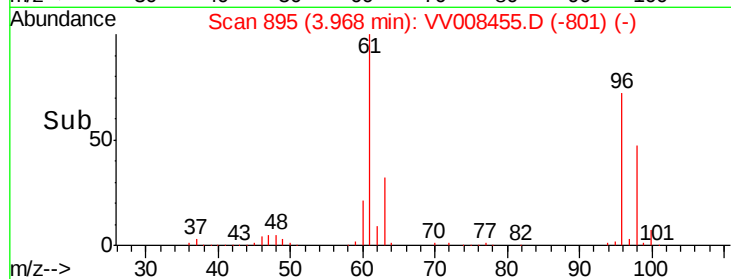
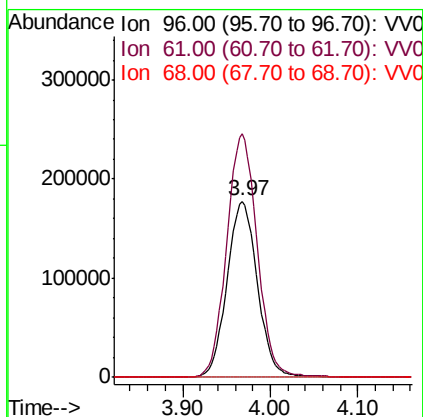
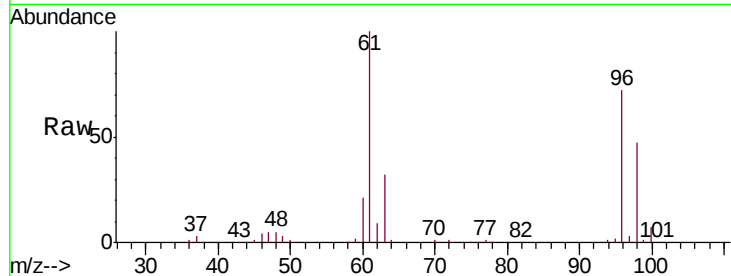




#20  
 cis-1,2-Dichloroethene  
 Concen: 286.871 ug/L  
 RT: 3.97 min Scan# 895  
 Delta R.T. 0.00 min  
 Lab File: VV008455.D  
 Acq: 29 Oct 2018 15:52

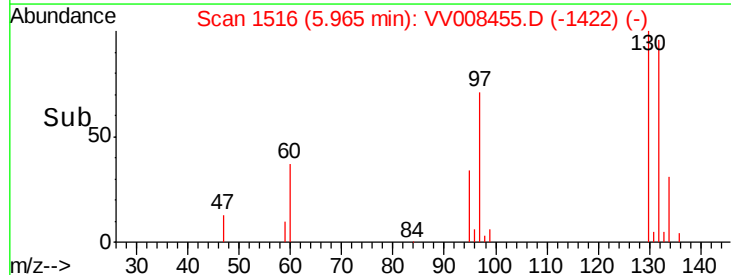
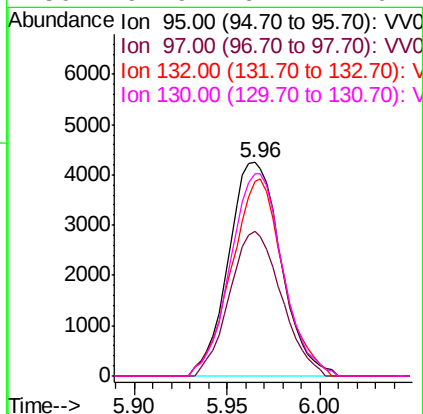
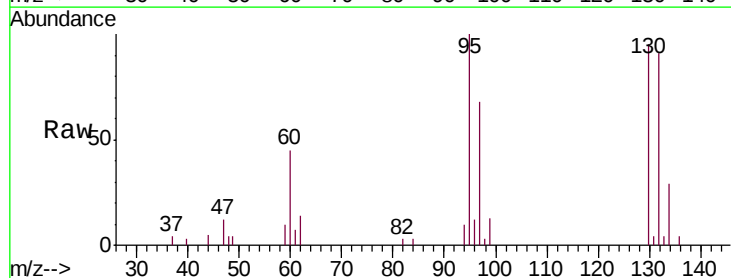
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 ETBR0

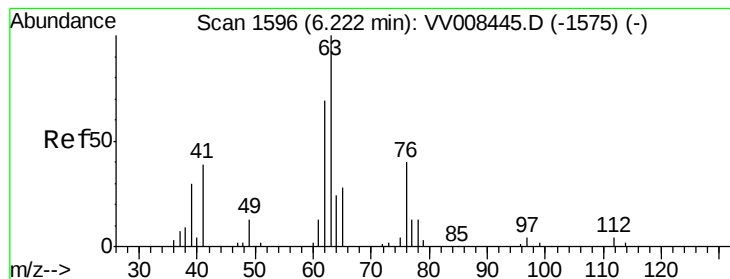
Tgt Ion: 96 Resp: 428750  
 Ion Ratio Lower Upper  
 96 100  
 61 138.1 100.9 187.5  
 68 0.0 0.0 0.0



#34  
 Trichloroethene  
 Concen: 5.679 ug/L  
 RT: 5.96 min Scan# 1516  
 Delta R.T. 0.00 min  
 Lab File: VV008455.D  
 Acq: 29 Oct 2018 15:52

Tgt Ion: 95 Resp: 8361  
 Ion Ratio Lower Upper  
 95 100  
 97 67.7 45.2 84.0  
 132 91.0 63.8 118.6  
 130 94.9 64.7 120.1





#37

1,2-Dichloropropane

Concen: 5.786 ug/L

RT: 6.12 min Scan# 1565

Delta R.T. -0.10 min

Lab File: VV008455.D

Acq: 29 Oct 2018 15:52

Instrument :

MSVOA\_V

ClientSampled :

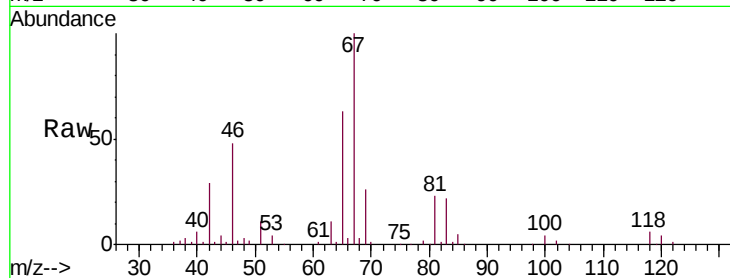
ETBR0

Tgt Ion: 63 Resp: 9188

Ion Ratio Lower Upper

63 100

112 0.0 2.9 4.3#



Abundance Ion 63.00 (62.70 to 63.70): VV008445.D (-1575) (-)

Ion 112.00 (111.70 to 112.70): VV008445.D (-1575) (-)

6.12

5000

4000

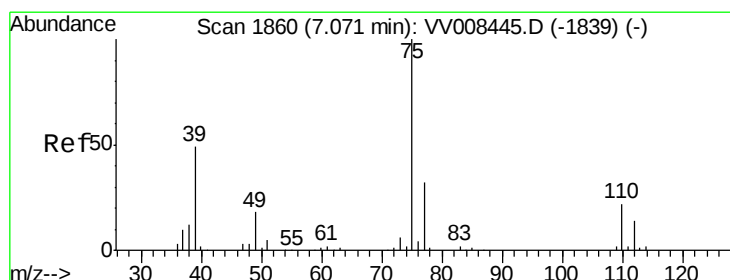
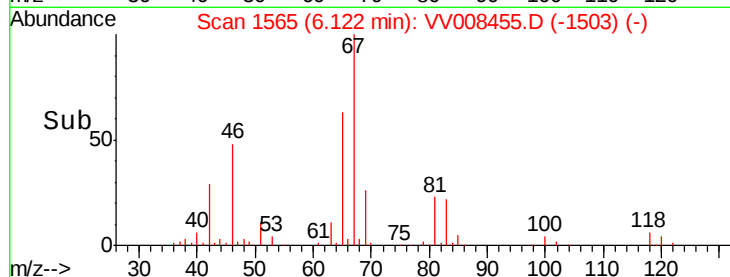
3000

2000

1000

0

Time-->



#39

cis-1,3-Dichloropropene

Concen: 1.029 ug/L

RT: 7.03 min Scan# 1848

Delta R.T. -0.04 min

Lab File: VV008455.D

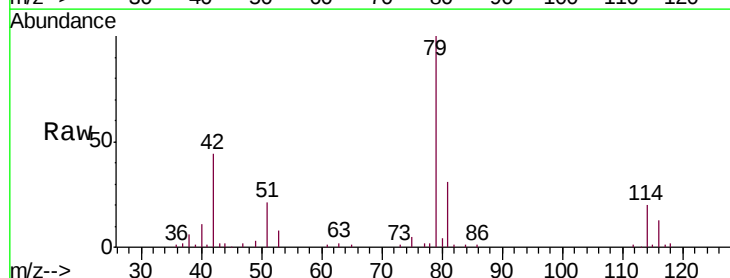
Acq: 29 Oct 2018 15:52

Tgt Ion: 75 Resp: 2568

Ion Ratio Lower Upper

75 100

77 46.3 22.6 42.0#



Abundance Ion 75.00 (74.70 to 75.70): VV008445.D (-1839) (-)

Ion 77.00 (76.70 to 77.70): VV008445.D (-1839) (-)

7.03

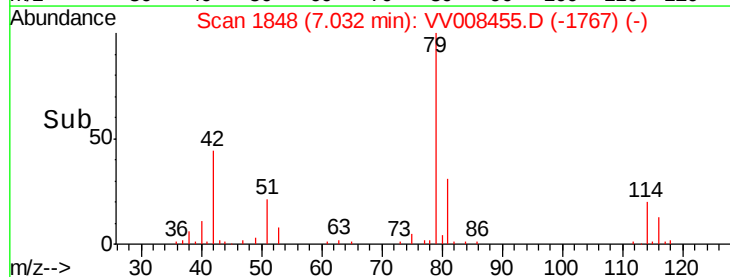
1500

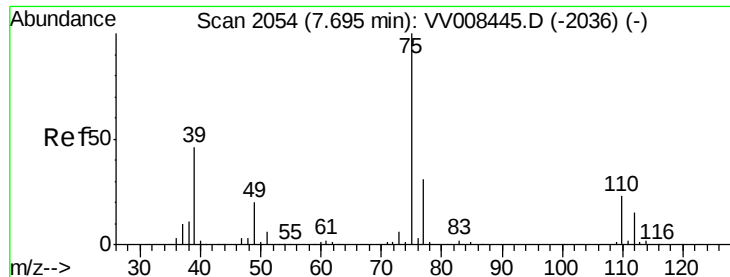
1000

500

0

Time-->





#44

trans-1,3-Dichloropropene

Concen: 0.695 ug/L

RT: 7.67 min Scan# 2045

Delta R.T. -0.03 min

Lab File: VV008455.D

Acq: 29 Oct 2018 15:52

Instrument :

MSVOA\_V

ClientSampleId :

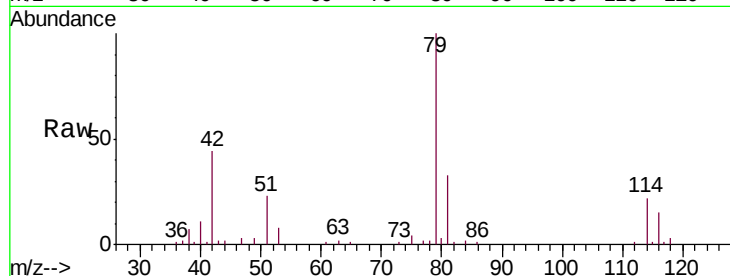
ETBR0

Tgt Ion: 75 Resp: 1624

Ion Ratio Lower Upper

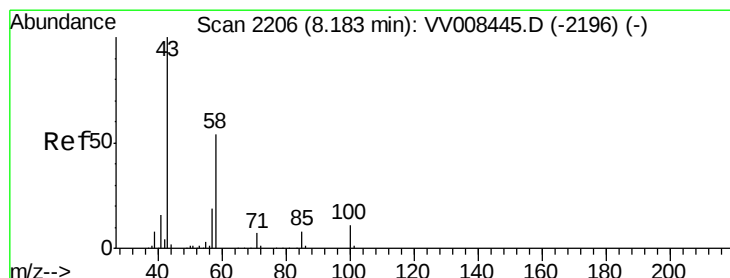
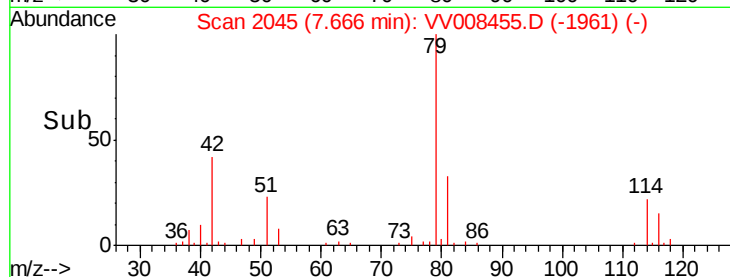
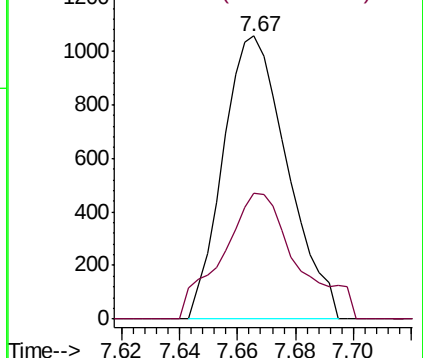
75 100

77 44.4 21.8 40.4#



Abundance Ion 75.00 (74.70 to 75.70): VV008445.D (-2036) (-)

Ion 77.00 (76.70 to 77.70): VV008445.D (-2036) (-)



#48

2-Hexanone

Concen: 5.172 ug/L

RT: 8.14 min Scan# 2191

Delta R.T. -0.05 min

Lab File: VV008455.D

Acq: 29 Oct 2018 15:52

Tgt Ion: 43 Resp: 9385

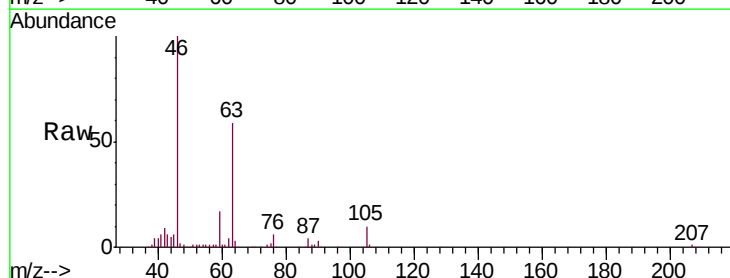
Ion Ratio Lower Upper

43 100

58 22.7 42.6 63.8#

57 22.3 14.8 22.2#

100 0.0 8.5 12.7#

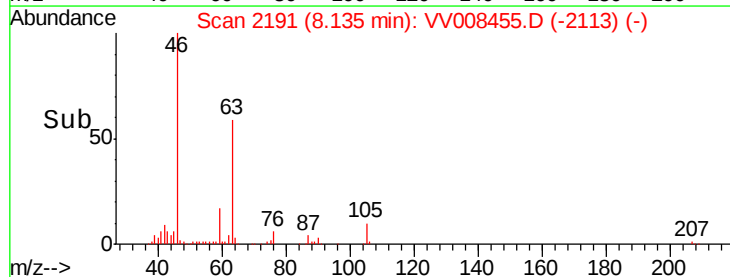
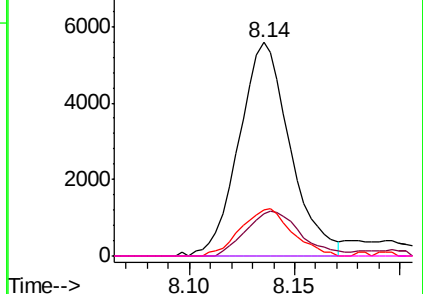


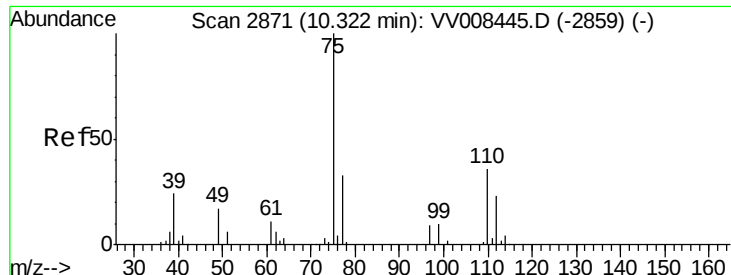
Abundance Ion 43.00 (42.70 to 43.70): VV008445.D (-2196) (-)

Ion 58.00 (57.70 to 58.70): VV008445.D (-2196) (-)

Ion 57.00 (56.70 to 57.70): VV008445.D (-2196) (-)

Ion 100.00 (99.70 to 100.70): VV008445.D (-2196) (-)





#59  
 1,2,3-Trichloropropane  
 Concen: 4.845 ug/L  
 RT: 11.30 min Scan# 3175  
 Delta R.T. 0.98 min  
 Lab File: VV008455.D  
 Acq: 29 Oct 2018 15:52

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 ETBR0

Tgt Ion: 75 Resp: 9643  
 Ion Ratio Lower Upper  
 75 100  
 77 37.0 25.8 38.8

