

Data File : VV008062.D  
Acq On : 04 Oct 2018 15:00  
Operator : SY/MD  
Sample : J5246-04  
Misc : 25.0 mL/MSVOA\_V/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
C0J72

Quant Time: Oct 05 05:21:52 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR092718WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Oct 05 05:20:32 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 84778    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 81157    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 39846    | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 19367    | 4.26     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 85.20%  |
| 7) Chloroethane-d5             | 1.59   | 69    | 18260    | 4.65     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 93.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.14   | 63    | 31968    | 3.11     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 62.20%  |
| 20) 2-Butanone-d5              | 3.96   | 46    | 72487    | 53.03    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 106.06% |
| 24) Chloroform-d               | 4.41   | 84    | 50525    | 4.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.60%  |
| 26) 1,2-Dichloroethane-d4      | 5.09   | 65    | 27157    | 4.77     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 95.40%  |
| 32) Benzene-d6                 | 5.10   | 84    | 94663    | 4.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 31121    | 5.07     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 101.40% |
| 41) Toluene-d8                 | 7.36   | 98    | 86349    | 4.38     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 87.60%  |
| 43) trans-1,3-Dichloropropene- | 7.67   | 79    | 10152    | 4.29     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 85.80%  |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 48488    | 46.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 92.90%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27  | 84    | 22469    | 4.74     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 94.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 38102    | 4.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 98.80%  |

#### Target Compounds

|                                |      |     |       |        |        | Qvalue |
|--------------------------------|------|-----|-------|--------|--------|--------|
| 5) Vinyl chloride              | 1.32 | 62  | 2373  | 0.350  | ug/L   | 93     |
| 8) Chloroethane                | 1.32 | 64  | 939   | 0.230  | ug/L # | 51     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 3785  | 0.604  | ug/L   | 90     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 1814  | 0.324  | ug/L # | 1      |
| 13) Acetone                    | 2.22 | 43  | 3892  | 3.908  | ug/L   | 98     |
| 17) Methyl tert-butyl Ether    | 2.82 | 73  | 19247 | 1.390  | ug/L   | 95     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 2758  | 0.446  | ug/L   | 88     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 1603  | 0.152  | ug/L   | 89     |
| 21) 2-Butanone                 | 4.05 | 43  | 1791  | 1.129  | ug/L # | 61     |
| 22) cis-1,2-Dichloroethene     | 3.97 | 96  | 91579 | 14.642 | ug/L   | 99     |
| 34) Trichloroethene            | 5.96 | 95  | 52796 | 7.934  | ug/L   | 96     |
| 37) 1,2-Dichloropropane        | 6.12 | 63  | 3635  | 0.612  | ug/L # | 87     |
| 39) cis-1,3-Dichloropropene    | 7.04 | 75  | 903   | 0.114  | ug/L # | 68     |
| 42) Toluene                    | 7.44 | 91  | 13208 | 0.522  | ug/L   | 95     |
| 44) trans-1,3-Dichloropropene  | 7.67 | 75  | 548   | 0.083  | ug/L   | 92     |
| 47) Tetrachloroethene          | 8.02 | 164 | 8839  | 1.433  | ug/L   | 95     |
| 48) 2-Hexanone                 | 8.14 | 43  | 6731  | 2.597  | ug/L # | 73     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV100418\  
Quantitation Report (Not Reviewed)

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ClientSampleId :  
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Quant Time: Oct 05 05:21:52 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR092718WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Oct 05 05:20:32 2018  
Response via : Initial Calibration

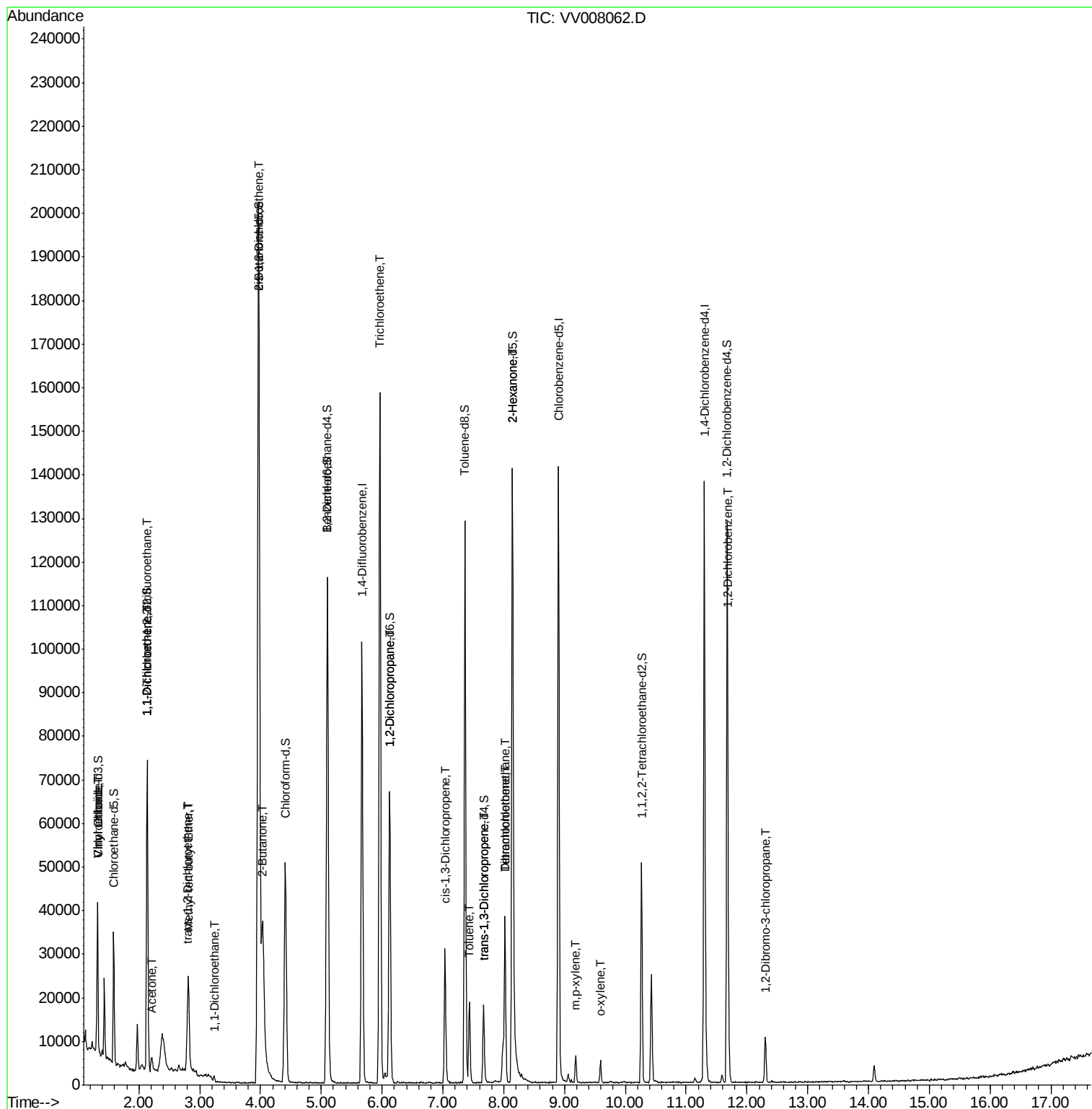
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 49) Dibromochloromethane       | 8.02  | 129  | 7201     | 1.472 | ug/L # | 12       |
| 53) m,p-xylene                 | 9.19  | 106  | 1855     | 0.173 | ug/L   | 78       |
| 54) o-xylene                   | 9.59  | 106  | 1454     | 0.140 | ug/L   | 91       |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 2439     | 0.197 | ug/L # | 93       |
| 66) 1,2-Dibromo-3-chloropropan | 12.30 | 75   | 326      | 0.516 | ug/L # | 1        |

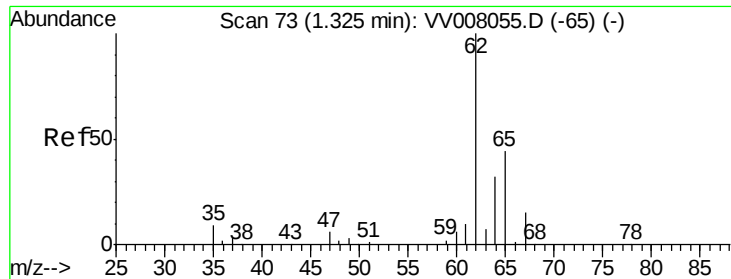
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : TRACE VOA SOM01.0  
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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.350 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV008062.D

Acq: 04 Oct 2018 15:00

Instrument :

MSVOA\_V

ClientSampled :

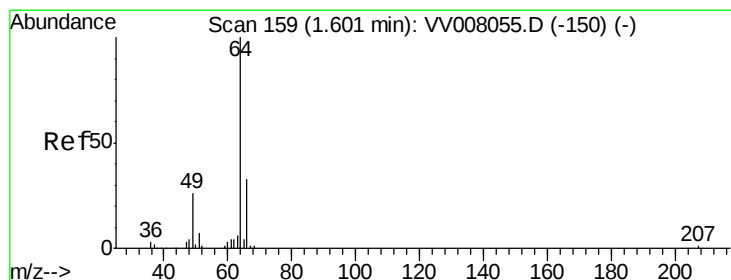
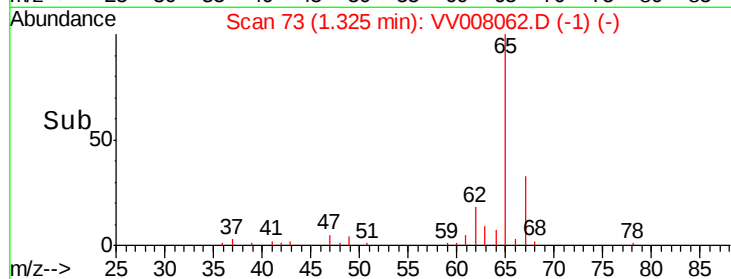
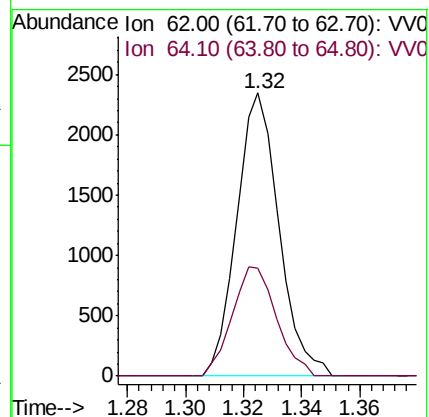
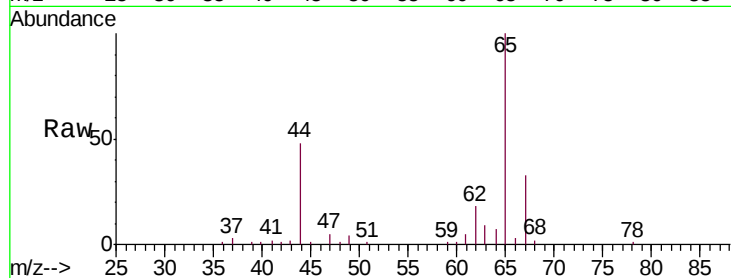
C0J72

Tgt Ion: 62 Resp: 2373

Ion Ratio Lower Upper

62 100

64 38.3 24.0 44.6



#8

Chloroethane

Concen: 0.230 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.28 min

Lab File: VV008062.D

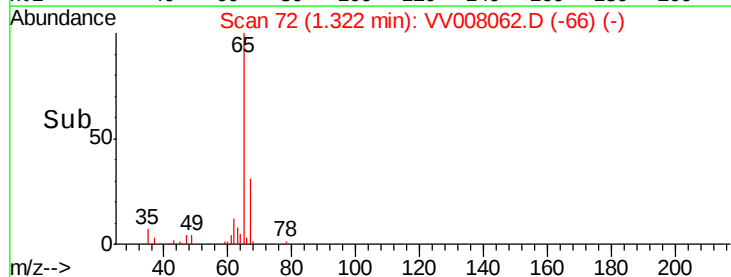
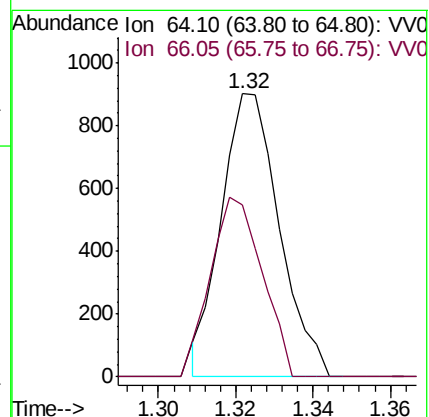
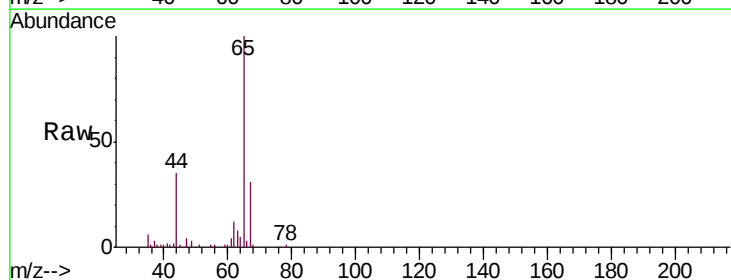
Acq: 04 Oct 2018 15:00

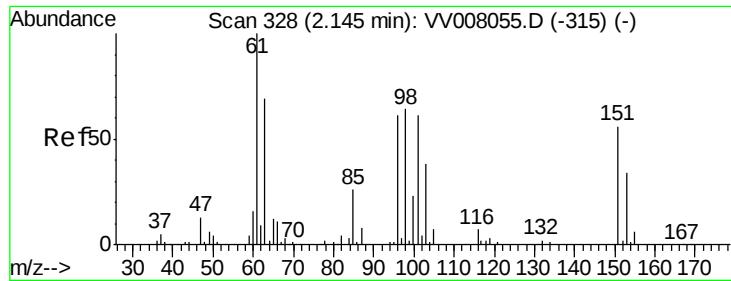
Tgt Ion: 64 Resp: 939

Ion Ratio Lower Upper

64 100

66 61.0 23.1 42.9#





#10

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

Concen: 0.604 ug/L

RT: 2.14 min Scan# 328

Delta R.T. 0.00 min

Lab File: VV008062.D

Acq: 04 Oct 2018 15:00

Instrument :

MSVOA\_V

ClientSampleId :

C0J72

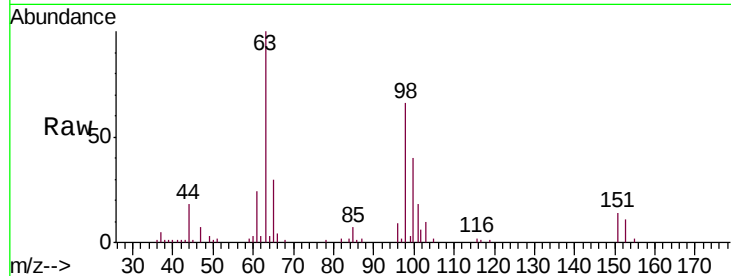
Tgt Ion:101 Resp: 3785

Ion Ratio Lower Upper

101 100

85 40.0 34.7 52.1

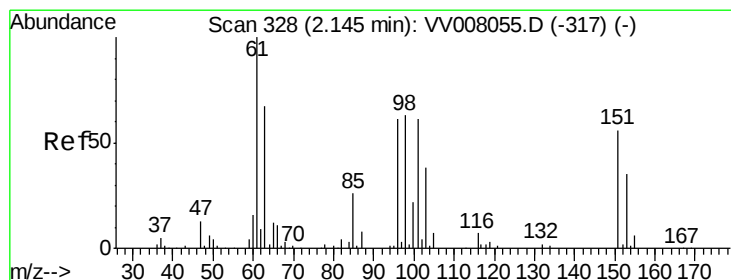
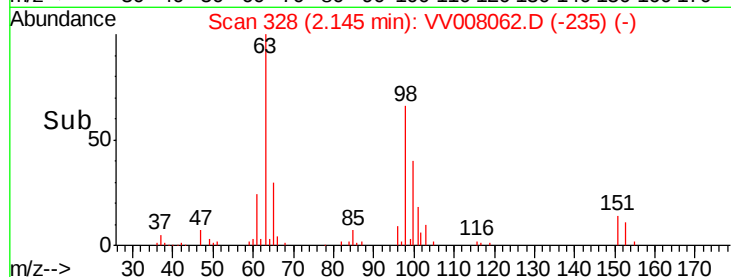
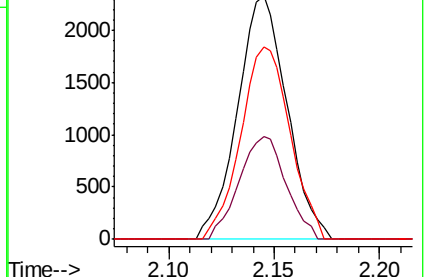
151 79.2 72.2 108.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.324 ug/L

RT: 2.14 min Scan# 328

Delta R.T. 0.00 min

Lab File: VV008062.D

Acq: 04 Oct 2018 15:00

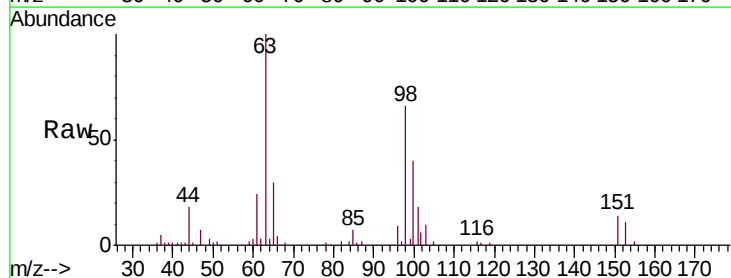
Tgt Ion: 96 Resp: 1814

Ion Ratio Lower Upper

96 100

61 261.7 114.1 211.9#

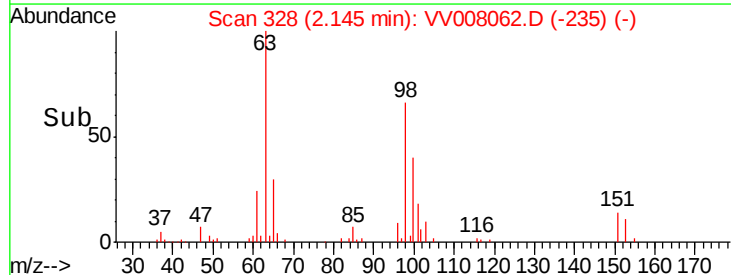
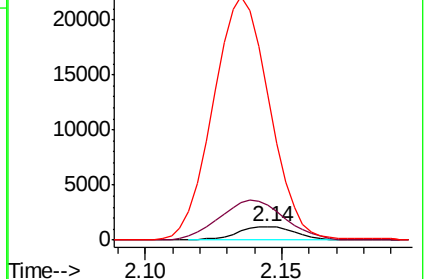
63 1082.6 81.5 151.3#

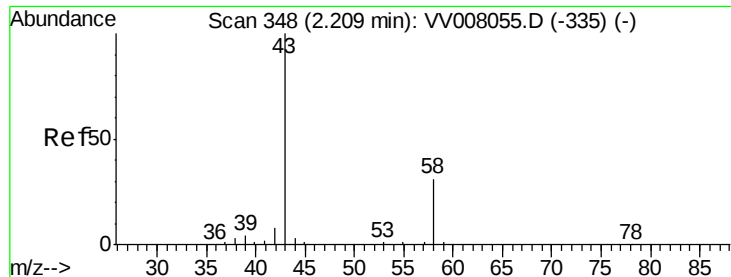


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 3.908 ug/L

RT: 2.22 min Scan# 350

Delta R.T. 0.01 min

Lab File: VV008062.D

Acq: 04 Oct 2018 15:00

Instrument :

MSVOA\_V

ClientSampled :

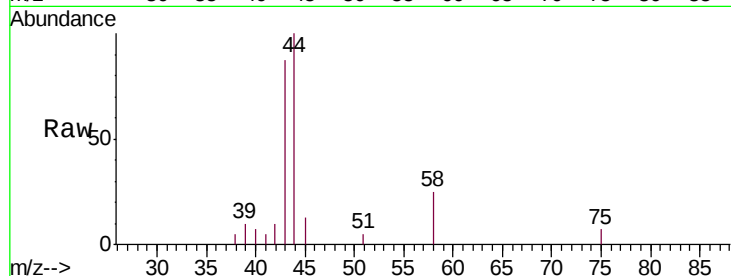
C0J72

Tgt Ion: 43 Resp: 3892

Ion Ratio Lower Upper

43 100

58 32.3 0.0 62.0



Abundance Ion 43.05 (42.75 to 43.75): VV008055.D (-335) (-)

Ion 58.05 (57.75 to 58.75): VV008055.D (-335) (-)

2.22

2000

1500

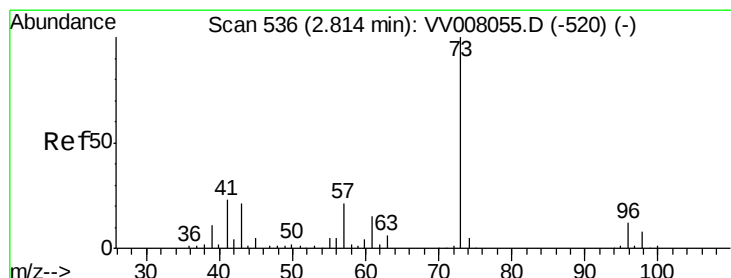
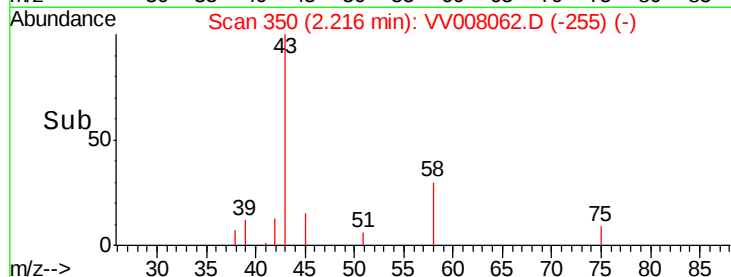
1000

500

0

2.15 2.20 2.25

Time-->



#17

Methyl tert-butyl Ether

Concen: 1.390 ug/L

RT: 2.82 min Scan# 537

Delta R.T. 0.00 min

Lab File: VV008062.D

Acq: 04 Oct 2018 15:00

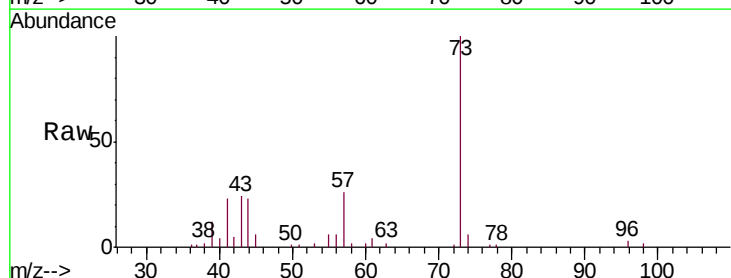
Tgt Ion: 73 Resp: 19247

Ion Ratio Lower Upper

73 100

43 19.1 16.8 25.2

57 24.9 17.6 26.4



Abundance Ion 73.10 (72.80 to 73.80): VV008055.D (-520) (-)

Ion 43.05 (42.75 to 43.75): VV008055.D (-520) (-)

Ion 57.10 (56.80 to 57.80): VV008055.D (-520) (-)

2.82

12000

10000

8000

6000

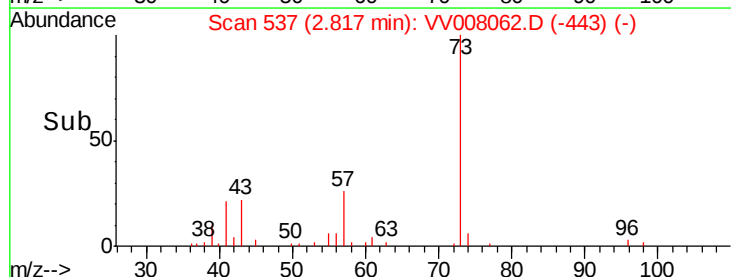
4000

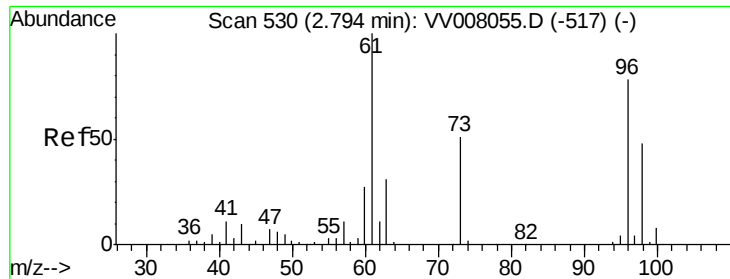
2000

0

2.75 2.80 2.85 2.90

Time-->

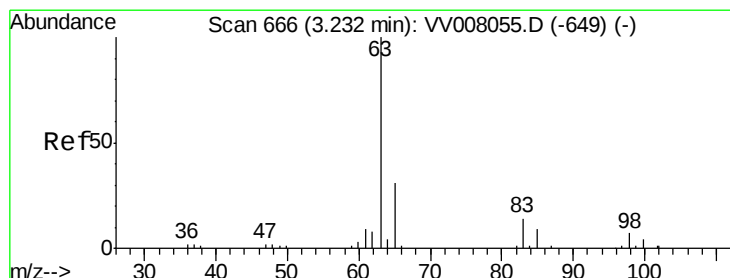
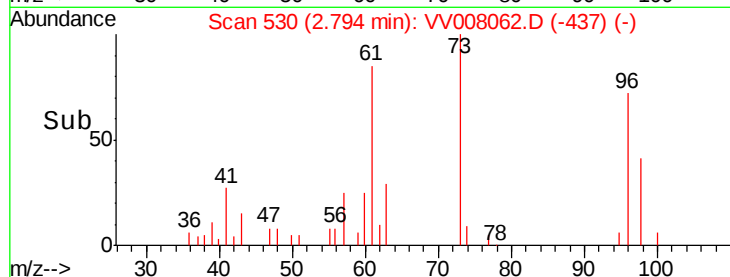
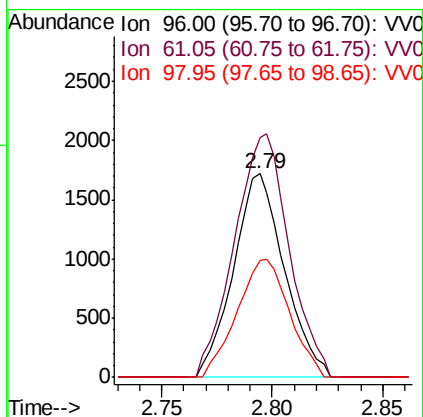
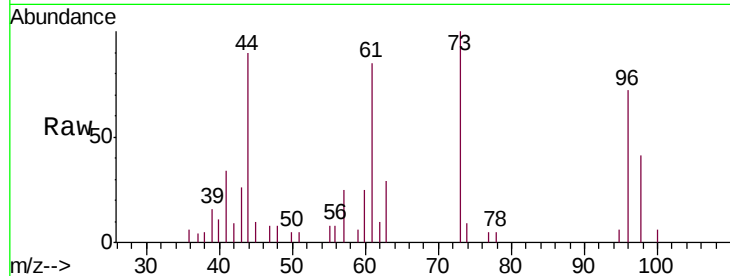




#18  
trans-1,2-Dichloroethene  
Concen: 0.446 ug/L  
RT: 2.79 min Scan# 530  
Delta R.T. 0.00 min  
Lab File: VV008062.D  
Acq: 04 Oct 2018 15:00

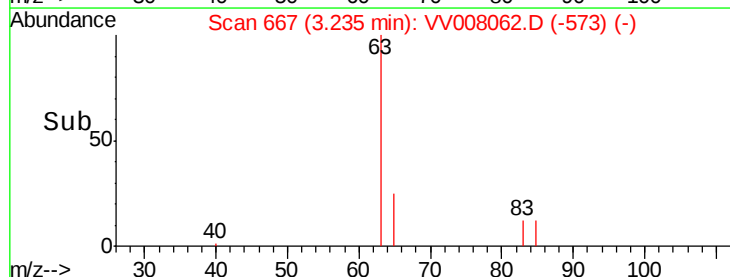
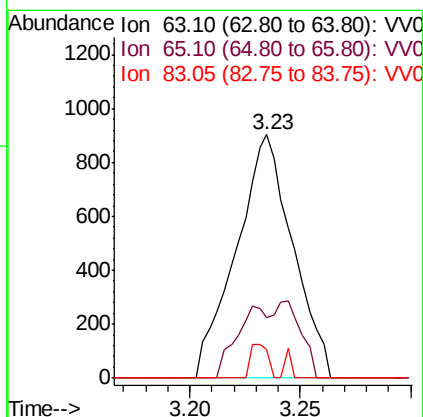
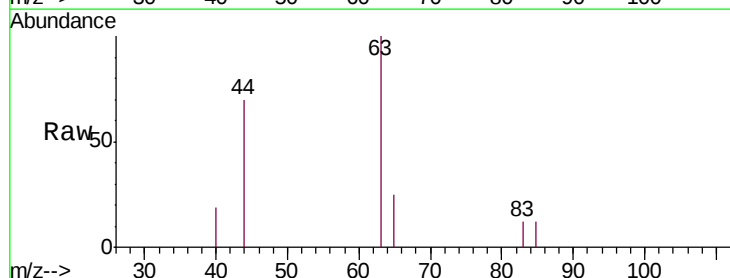
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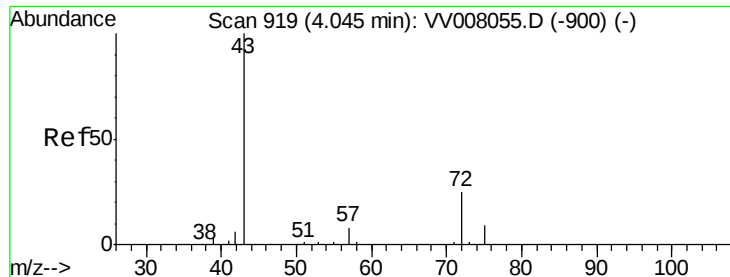
Tgt Ion: 96 Resp: 2758  
Ion Ratio Lower Upper  
96 100  
61 118.2 94.2 175.0  
98 57.3 44.9 83.5



#19  
1,1-Dichloroethane  
Concen: 0.152 ug/L  
RT: 3.23 min Scan# 667  
Delta R.T. 0.00 min  
Lab File: VV008062.D  
Acq: 04 Oct 2018 15:00

Tgt Ion: 63 Resp: 1603  
Ion Ratio Lower Upper  
63 100  
65 24.7 22.3 41.5  
83 11.7 9.8 18.2





#21

2-Butanone

Concen: 1.129 ug/L

RT: 4.05 min Scan# 919

Delta R.T. 0.00 min

Lab File: VV008062.D

Acq: 04 Oct 2018 15:00

Instrument :

MSVOA\_V

ClientSampleId :

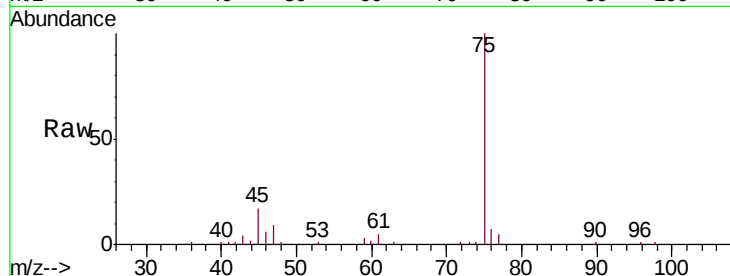
C0J72

Tgt Ion: 43 Resp: 1791

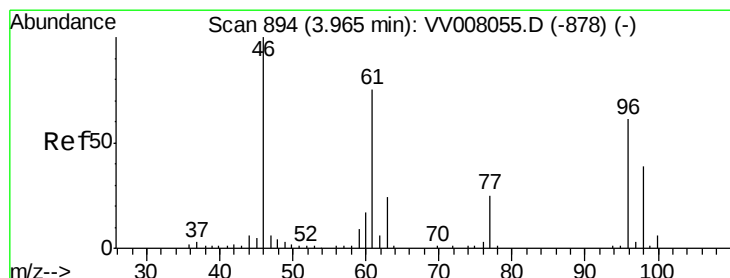
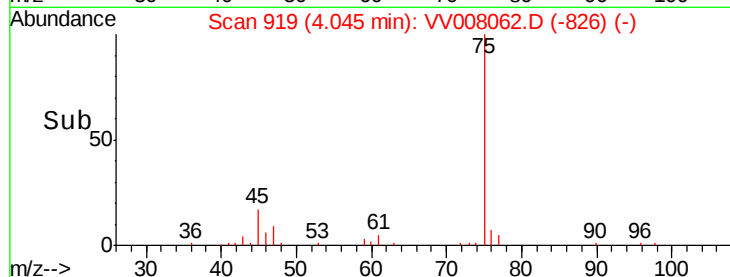
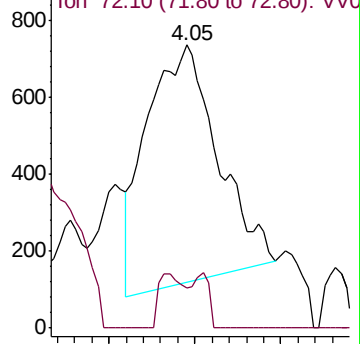
Ion Ratio Lower Upper

43 100

72 5.4 12.5 37.5#



Abundance Ion 43.05 (42.75 to 43.75): VV008055.D (-900) (-)



#22

cis-1,2-Dichloroethene

Concen: 14.642 ug/L

RT: 3.97 min Scan# 895

Delta R.T. 0.00 min

Lab File: VV008062.D

Acq: 04 Oct 2018 15:00

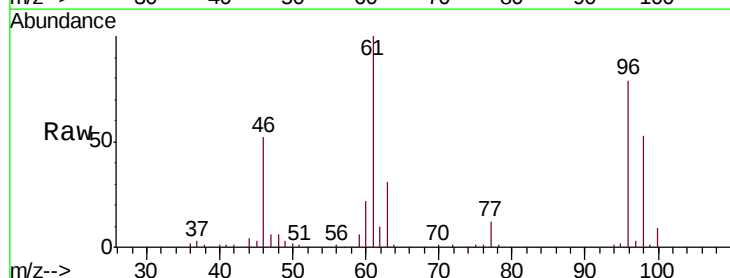
Tgt Ion: 96 Resp: 91579

Ion Ratio Lower Upper

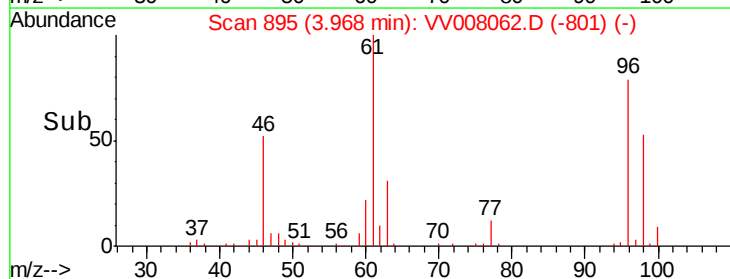
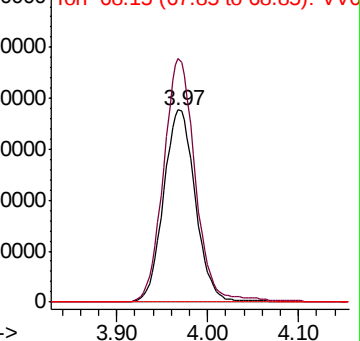
96 100

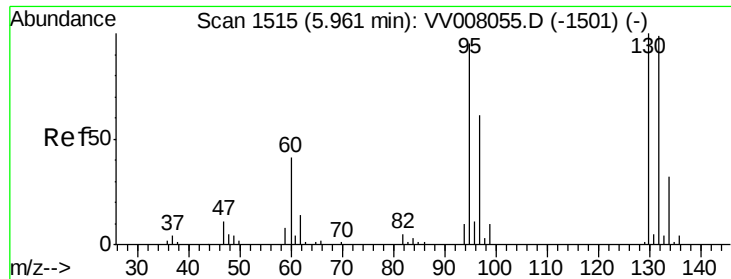
61 126.7 89.5 166.1

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV008055.D (-878) (-)

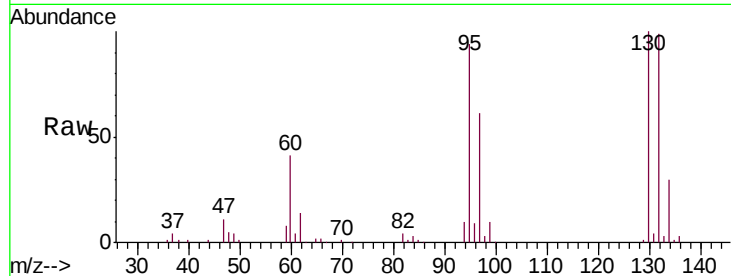




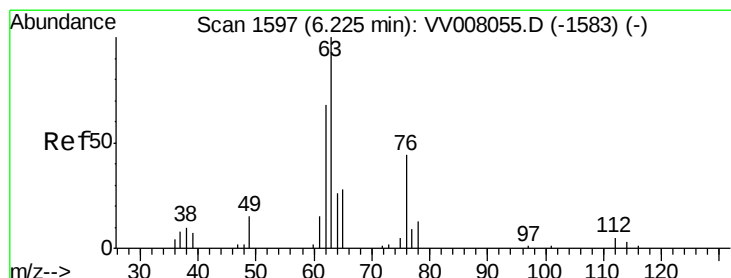
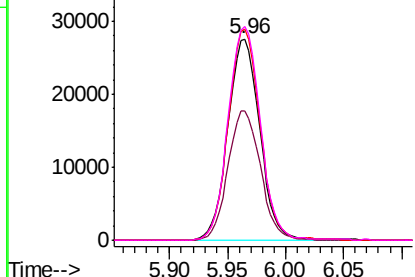
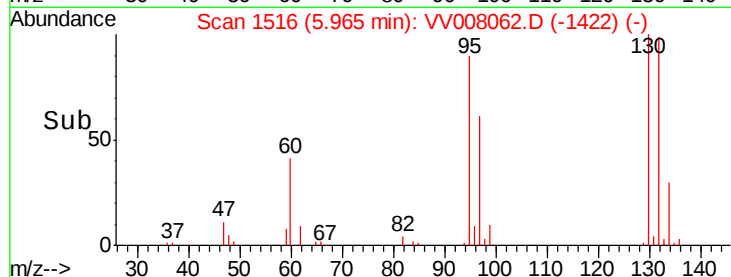
#34  
 Trichloroethene  
 Concen: 7.934 ug/L  
 RT: 5.96 min Scan# 1516  
 Delta R.T. 0.00 min  
 Lab File: VV008062.D  
 Acq: 04 Oct 2018 15:00

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0J72

Tgt Ion: 95 Resp: 52796  
 Ion Ratio Lower Upper  
 95 100  
 97 64.4 43.6 81.0  
 132 105.0 69.9 129.9  
 130 106.1 71.7 133.3

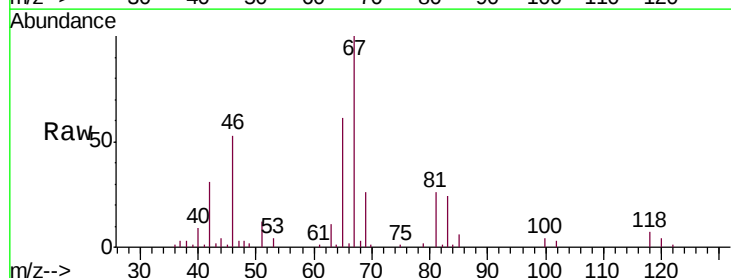


Abundance Ion 95.00 (94.70 to 95.70): VV0  
 Ion 96.95 (96.65 to 97.65): VV0  
 Ion 131.95 (131.65 to 132.65): V  
 Ion 129.95 (129.65 to 130.65): V

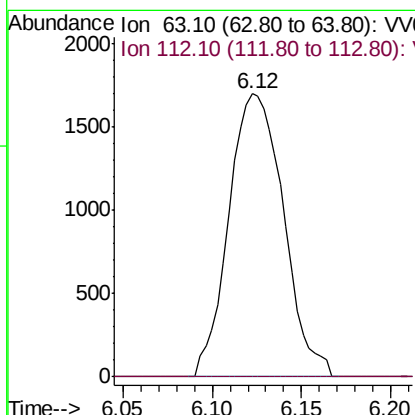
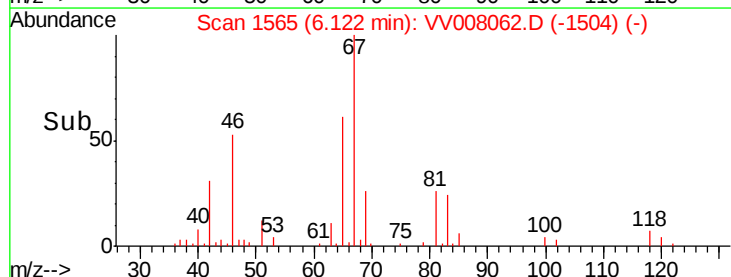


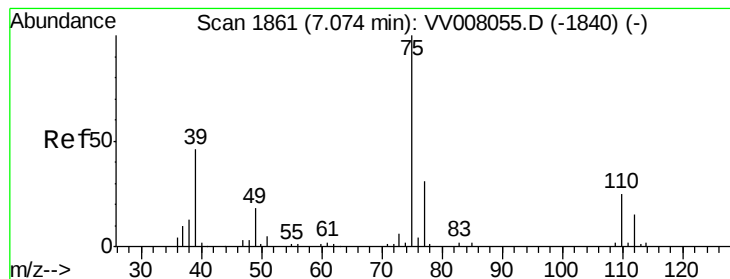
#37  
 1,2-Dichloropropane  
 Concen: 0.612 ug/L  
 RT: 6.12 min Scan# 1565  
 Delta R.T. -0.10 min  
 Lab File: VV008062.D  
 Acq: 04 Oct 2018 15:00

Tgt Ion: 63 Resp: 3635  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.4 5.0#



Abundance Ion 63.10 (62.80 to 63.80): VV0  
 Ion 112.10 (111.80 to 112.80): V



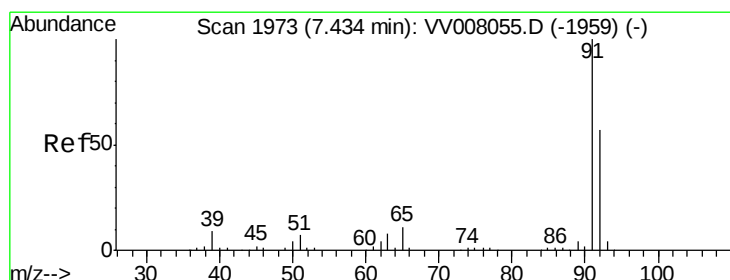
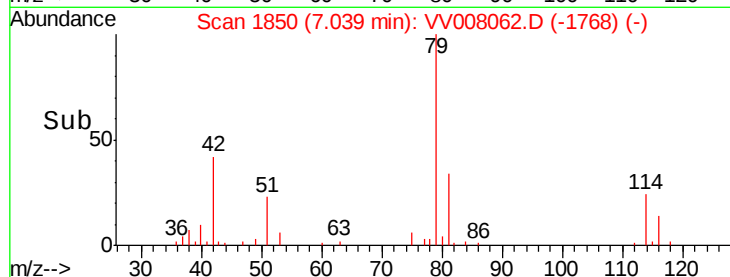
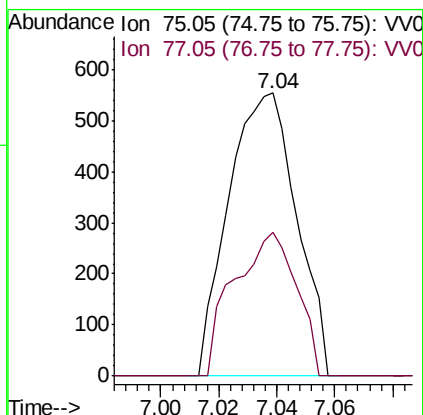
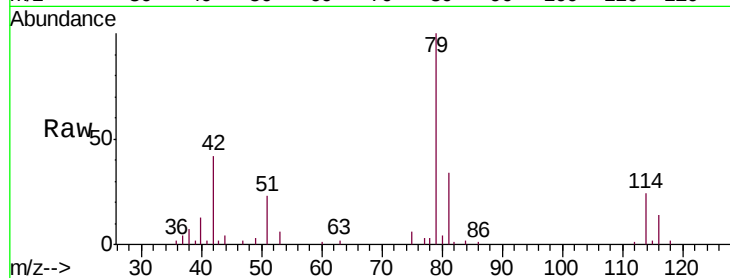


#39

cis-1,3-Dichloropropene  
 Concen: 0.114 ug/L  
 RT: 7.04 min Scan# 1850  
 Delta R.T. -0.04 min  
 Lab File: VV008062.D  
 Acq: 04 Oct 2018 15:00

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0J72

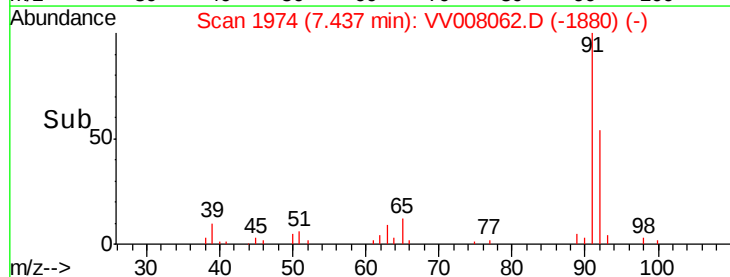
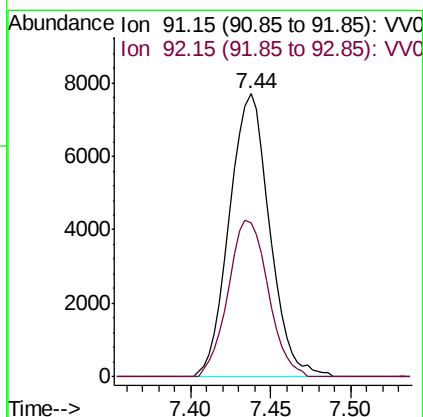
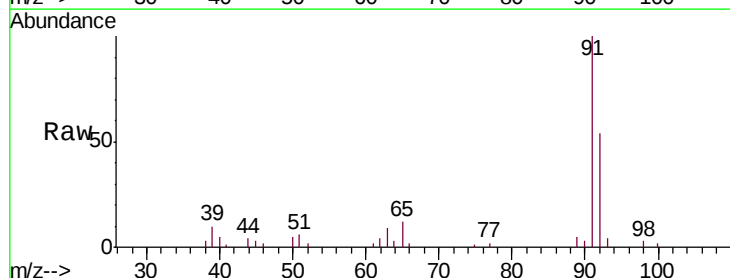
Tgt Ion: 75 Resp: 903  
 Ion Ratio Lower Upper  
 75 100  
 77 50.9 22.9 42.5#

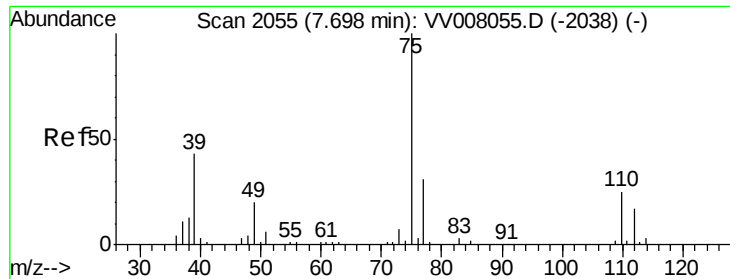


#42

Toluene  
 Concen: 0.522 ug/L  
 RT: 7.44 min Scan# 1974  
 Delta R.T. 0.00 min  
 Lab File: VV008062.D  
 Acq: 04 Oct 2018 15:00

Tgt Ion: 91 Resp: 13208  
 Ion Ratio Lower Upper  
 91 100  
 92 54.4 40.8 75.8





#44

trans-1,3-Dichloropropene

Concen: 0.083 ug/L

RT: 7.67 min Scan# 2045

Delta R.T. -0.03 min

Lab File: VV008062.D

Acq: 04 Oct 2018 15:00

Instrument :

MSVOA\_V

ClientSampleId :

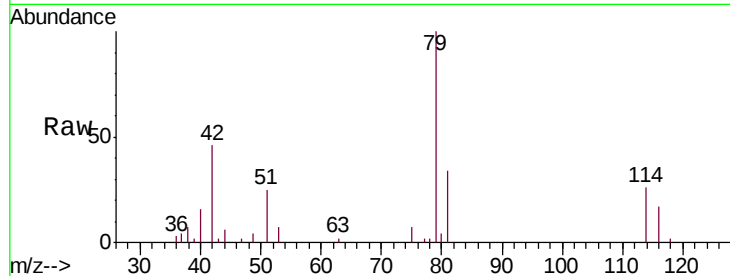
C0J72

Tgt Ion: 75 Resp: 548

Ion Ratio Lower Upper

75 100

77 27.2 22.3 41.5



Abundance Ion 75.05 (74.75 to 75.75): VV008055.D (-2038) (-)

Ion 77.05 (76.75 to 77.75): VV008055.D (-2038) (-)

7.67

400

300

200

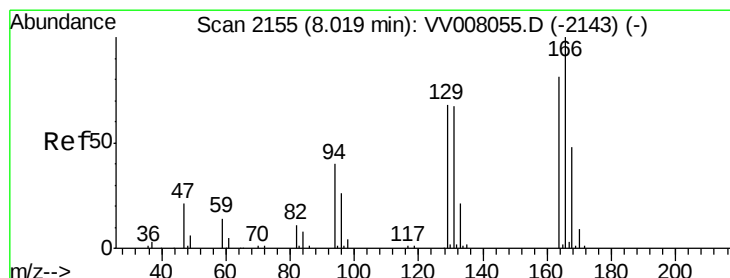
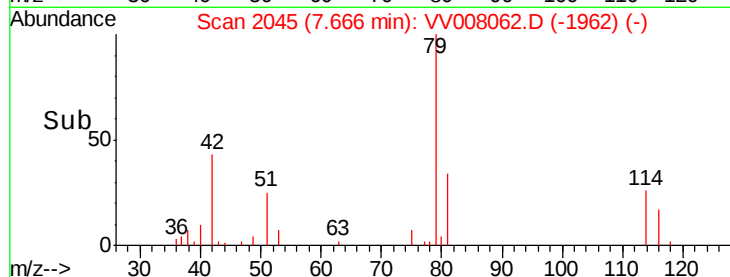
100

0

7.65

7.70

Time-->



#47

Tetrachloroethene

Concen: 1.433 ug/L

RT: 8.02 min Scan# 2156

Delta R.T. 0.00 min

Lab File: VV008062.D

Acq: 04 Oct 2018 15:00

Tgt Ion: 164 Resp: 8839

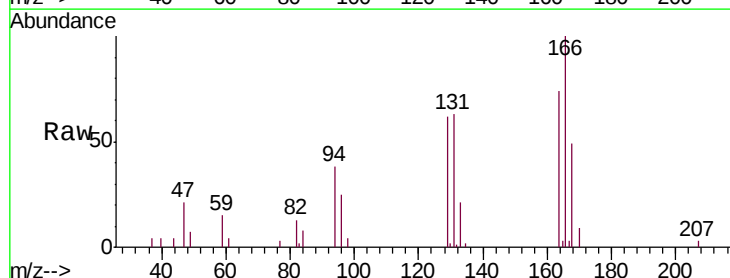
Ion Ratio Lower Upper

164 100

129 82.8 59.2 110.0

131 85.0 57.1 106.1

166 134.5 88.6 164.6



Abundance Ion 163.90 (163.60 to 164.60): VV008055.D (-2143) (-)

Ion 128.95 (128.65 to 129.65): VV008055.D (-2143) (-)

Ion 130.95 (130.65 to 131.65): VV008055.D (-2143) (-)

Ion 165.90 (165.60 to 166.60): VV008055.D (-2143) (-)

10000

8000

6000

4000

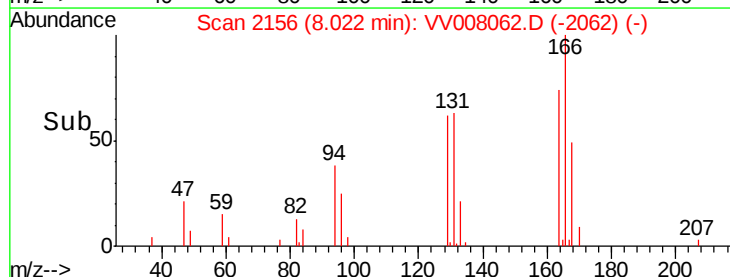
2000

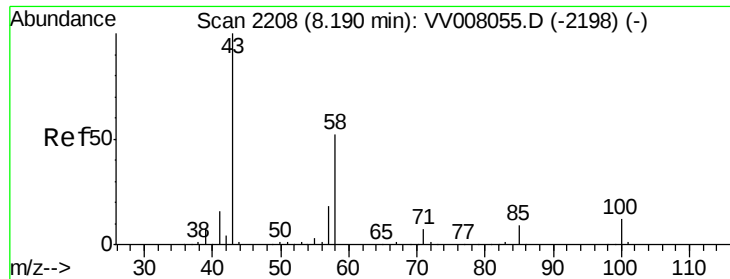
0

8.00

8.05

Time-->

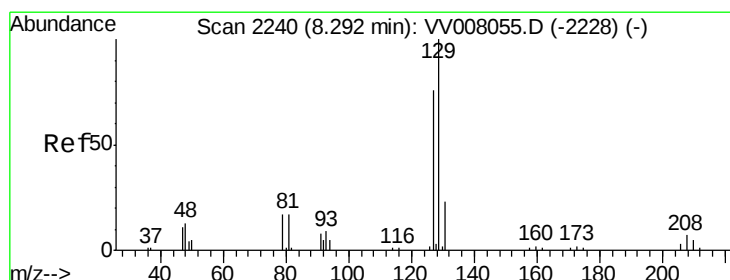
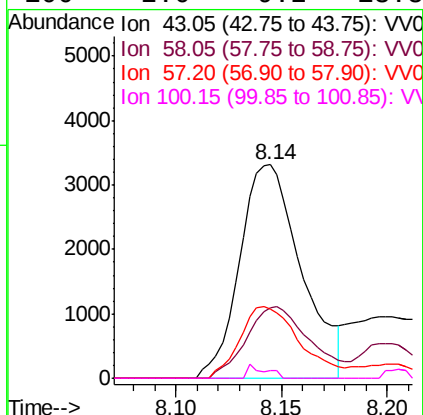
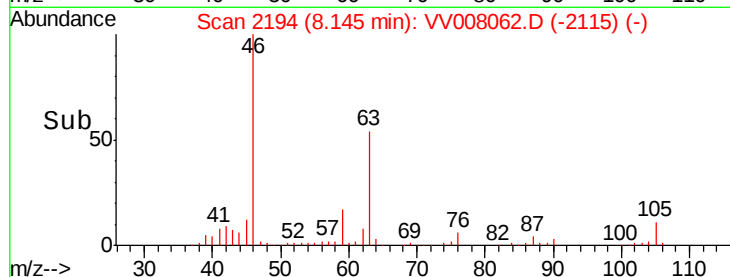
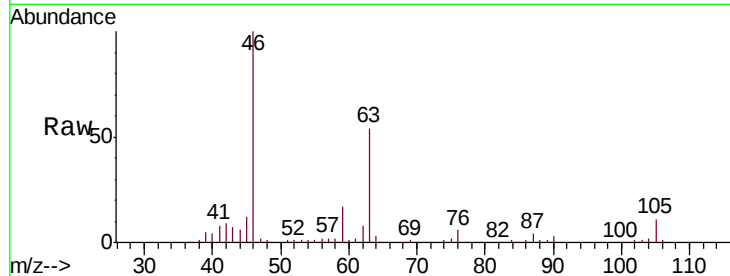




#48  
2-Hexanone  
Concen: 2.597 ug/L  
RT: 8.14 min Scan# 2194  
Delta R.T. -0.04 min  
Lab File: VV008062.D  
Acq: 04 Oct 2018 15:00

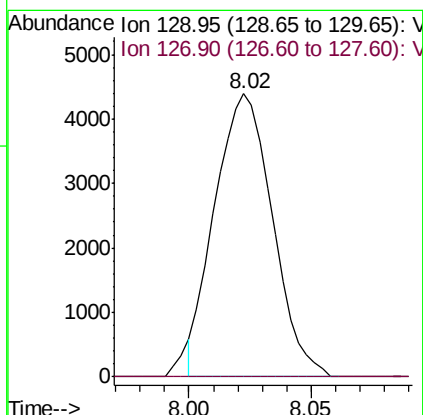
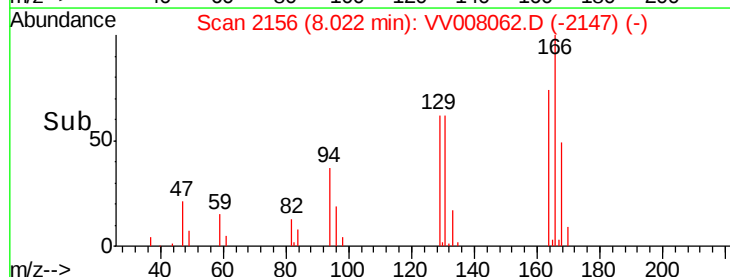
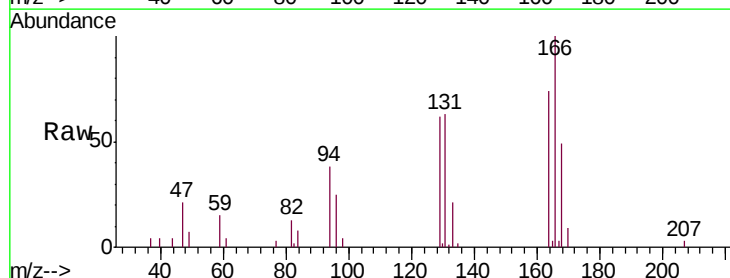
Instrument :  
MSVOA\_V  
ClientSampled :  
C0J72

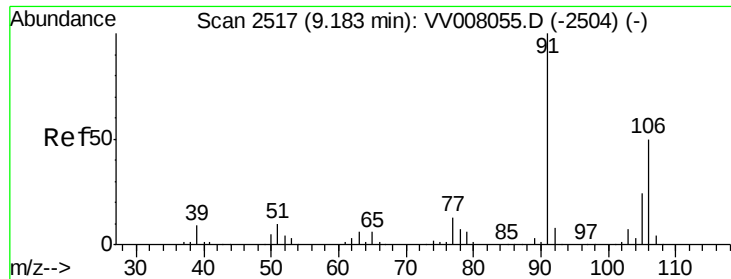
Tgt Ion: 43 Resp: 6731  
Ion Ratio Lower Upper  
43 100  
58 34.5 41.9 62.9#  
57 32.6 14.3 21.5#  
100 2.0 9.2 13.8#



#49  
Dibromochloromethane  
Concen: 1.472 ug/L  
RT: 8.02 min Scan# 2156  
Delta R.T. -0.27 min  
Lab File: VV008062.D  
Acq: 04 Oct 2018 15:00

Tgt Ion: 129 Resp: 7201  
Ion Ratio Lower Upper  
129 100  
127 0.0 53.1 98.5#

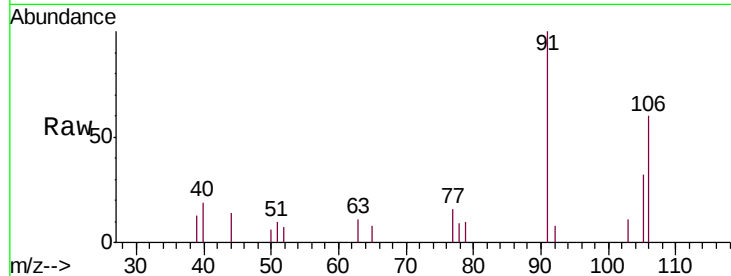




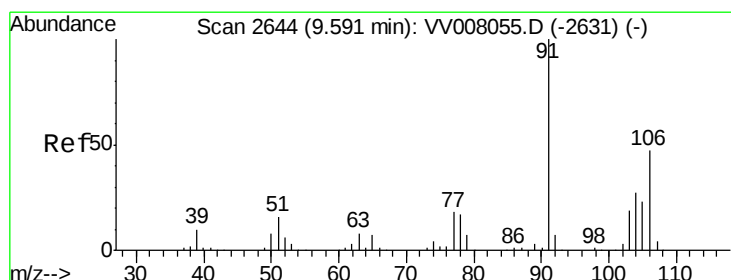
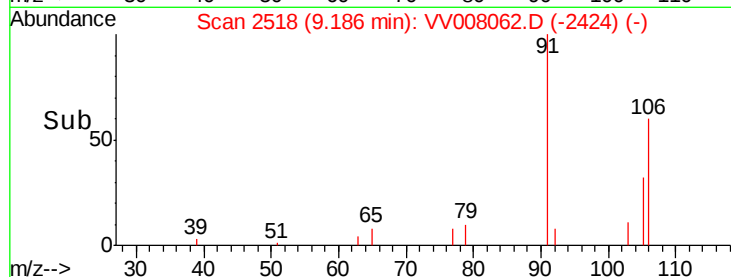
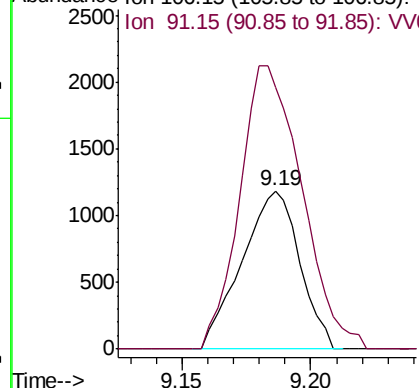
#53  
m,p-xylene  
Concen: 0.173 ug/L  
RT: 9.19 min Scan# 2518  
Delta R.T. 0.00 min  
Lab File: VV008062.D  
Acq: 04 Oct 2018 15:00

Instrument :  
MSVOA\_V  
ClientSampleId :  
C0J72

Tgt Ion:106 Resp: 1855  
Ion Ratio Lower Upper  
106 100  
91 165.9 139.4 258.8

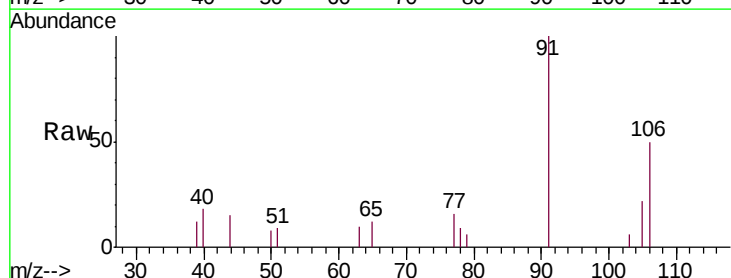


Abundance Ion 106.15 (105.85 to 106.85): V  
Ion 91.15 (90.85 to 91.85): VV0

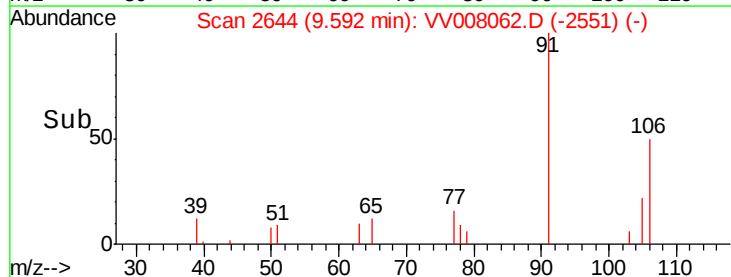
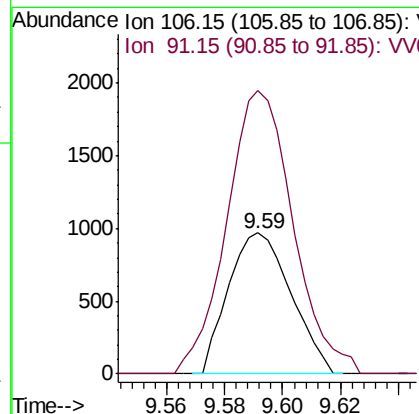


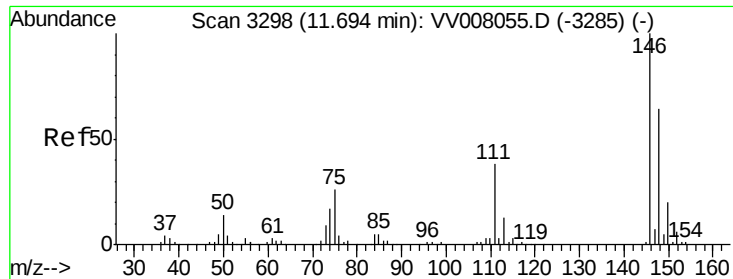
#54  
o-xylene  
Concen: 0.140 ug/L  
RT: 9.59 min Scan# 2644  
Delta R.T. 0.00 min  
Lab File: VV008062.D  
Acq: 04 Oct 2018 15:00

Tgt Ion:106 Resp: 1454  
Ion Ratio Lower Upper  
106 100  
91 201.0 150.1 278.9



Abundance Ion 106.15 (105.85 to 106.85): V  
Ion 91.15 (90.85 to 91.85): VV0





#65

1,2-Dichlorobenzene

Concen: 0.197 ug/L

RT: 11.69 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VV008062.D

Acq: 04 Oct 2018 15:00

Instrument :

MSVOA\_V

ClientSampleId :

C0J72

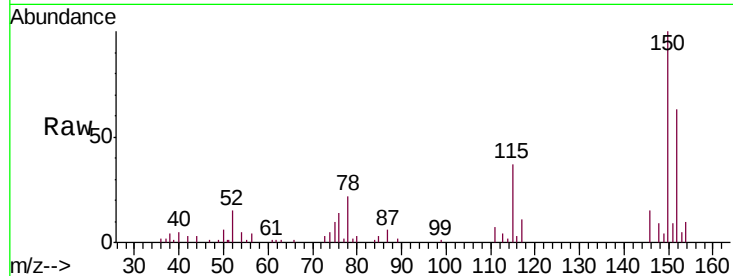
Tgt Ion:146 Resp: 2439

Ion Ratio Lower Upper

146 100

111 50.1 31.2 46.8#

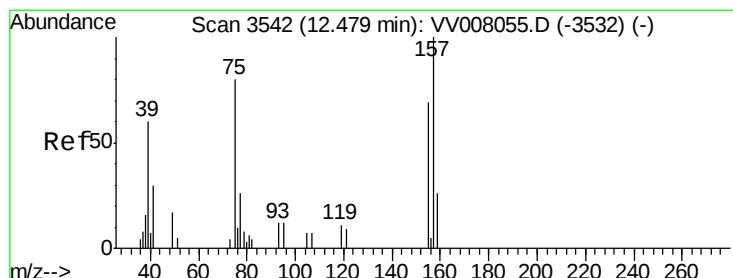
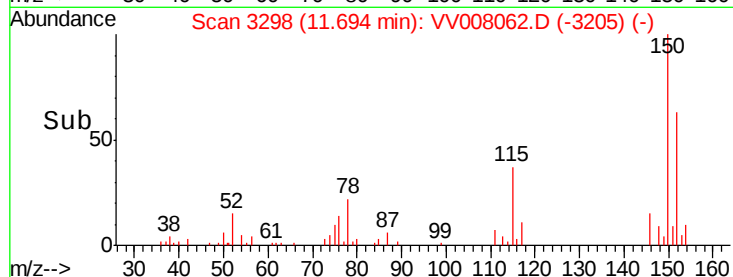
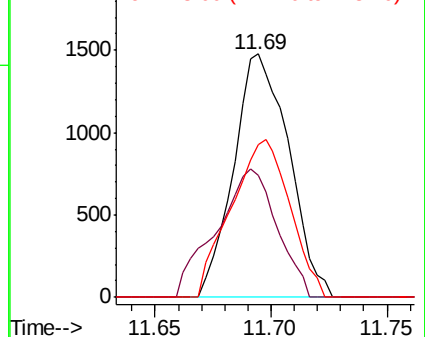
148 62.9 50.3 75.5



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 0.516 ug/L

RT: 12.30 min Scan# 3487

Delta R.T. -0.18 min

Lab File: VV008062.D

Acq: 04 Oct 2018 15:00

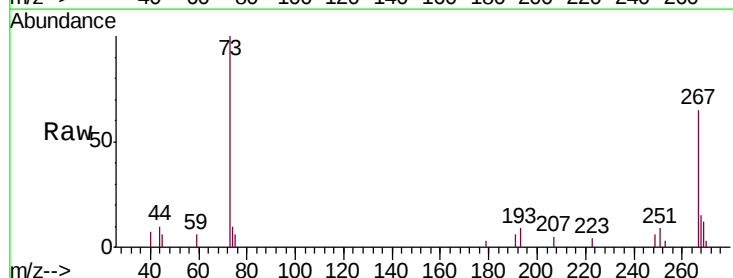
Tgt Ion: 75 Resp: 326

Ion Ratio Lower Upper

75 100

155 0.0 83.4 125.2#

157 0.0 93.9 140.9#



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

