

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV062518\  
 Data File : VV006455.D  
 Acq On : 26 Jun 2018 03:54  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25 mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Jun 26 09:11:43 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR062518WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Jun 26 06:50:47 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 310659   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 284753   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 135935   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 96121    | 4.71     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 94.20%  |
| 7) Chloroethane-d5             | 1.59   | 69    | 80444    | 4.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 97.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.14   | 63    | 177287   | 4.90     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 98.00%  |
| 20) 2-Butanone-d5              | 3.96   | 46    | 176912   | 46.22    | ug/L | -0.01   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 92.44%  |
| 24) Chloroform-d               | 4.41   | 84    | 172795   | 4.96     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 99.20%  |
| 26) 1,2-Dichloroethane-d4      | 5.09   | 65    | 81788    | 5.02     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 100.40% |
| 32) Benzene-d6                 | 5.11   | 84    | 365898   | 4.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 98.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 108039   | 4.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 97.80%  |
| 41) Toluene-d8                 | 7.37   | 98    | 349677   | 4.97     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 99.40%  |
| 43) trans-1,3-Dichloropropene- | 7.67   | 79    | 34277    | 4.21     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 84.20%  |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 161415   | 50.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 100.14% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27  | 84    | 67043    | 4.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 98.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 124319   | 4.92     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 98.40%  |

## Target Compounds

|                                |      |     |        |       |      | Ovalue |
|--------------------------------|------|-----|--------|-------|------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 119554 | 5.25  | ug/L | 99     |
| 3) Chloromethane               | 1.26 | 50  | 115036 | 4.93  | ug/L | 99     |
| 5) Vinyl chloride              | 1.32 | 62  | 129730 | 5.12  | ug/L | 99     |
| 6) Bromomethane                | 1.54 | 94  | 73971  | 5.04  | ug/L | 100    |
| 8) Chloroethane                | 1.60 | 64  | 81776  | 5.08  | ug/L | 99     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 163550 | 5.37  | ug/L | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 103020 | 5.38  | ug/L | 100    |
| 12) 1,1-Dichloroethene         | 2.15 | 96  | 96833  | 5.15  | ug/L | 92     |
| 13) Acetone                    | 2.21 | 43  | 102418 | 43.65 | ug/L | 97     |
| 14) Carbon disulfide           | 2.32 | 76  | 228739 | 4.31  | ug/L | 100    |
| 15) Methyl Acetate             | 2.47 | 43  | 30238  | 4.38  | ug/L | 95     |
| 16) Methylene chloride         | 2.54 | 84  | 104182 | 4.73  | ug/L | 98     |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 232496 | 5.11  | ug/L | 99     |
| 18) trans-1,2-Dichloroethene   | 2.80 | 96  | 104936 | 5.10  | ug/L | 99     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 184260 | 5.03  | ug/L | 99     |
| 21) 2-Butanone                 | 4.05 | 43  | 205621 | 48.50 | ug/L | 92     |
| 22) cis-1,2-Dichloroethene     | 3.97 | 96  | 113892 | 5.04  | ug/L | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV062518\  
 Data File : VV006455.D  
 Acq On : 26 Jun 2018 03:54  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25 mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

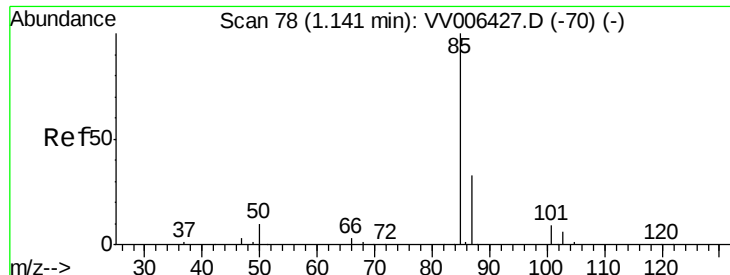
Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Jun 26 09:11:43 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR062518WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Jun 26 06:50:47 2018  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------------|-------|------|----------|-------|-------|----------|
| 23) Bromochloromethane          | 4.31  | 128  | 45979    | 5.00  | ug/L  | 97       |
| 25) Chloroform                  | 4.44  | 83   | 189205   | 5.12  | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.19  | 62   | 105119   | 5.07  | ug/L  | 98       |
| 29) 1,1,1-Trichloroethane       | 4.66  | 97   | 152873   | 4.92  | ug/L  | 100      |
| 30) Cyclohexane                 | 4.73  | 56   | 158225   | 5.10  | ug/L  | 100      |
| 31) Carbon tetrachloride        | 4.88  | 117  | 126525   | 4.86  | ug/L  | 98       |
| 33) Benzene                     | 5.15  | 78   | 428805   | 5.10  | ug/L  | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 119717   | 4.98  | ug/L  | 99       |
| 35) Methylcyclohexane           | 6.18  | 83   | 179480   | 5.13  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.23  | 63   | 104495   | 5.08  | ug/L  | 100      |
| 38) Bromodichloromethane        | 6.56  | 83   | 110142   | 4.66  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene     | 7.08  | 75   | 130949   | 4.58  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone        | 7.28  | 43   | 500626   | 50.06 | ug/L  | 100      |
| 42) Toluene                     | 7.44  | 91   | 456812   | 5.13  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene   | 7.70  | 75   | 99357    | 4.43  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane       | 7.89  | 97   | 71848    | 5.06  | ug/L  | 98       |
| 47) Tetrachloroethene           | 8.02  | 164  | 91716    | 5.05  | ug/L  | 98       |
| 48) 2-Hexanone                  | 8.19  | 43   | 362964   | 50.45 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.30  | 129  | 70805    | 4.68  | ug/L  | 99       |
| 50) 1,2-Dibromoethane           | 8.40  | 107  | 65576    | 5.14  | ug/L  | 97       |
| 51) Chlorobenzene               | 8.93  | 112  | 299445   | 5.08  | ug/L  | 100      |
| 52) Ethylbenzene                | 9.06  | 91   | 494857   | 5.13  | ug/L  | 99       |
| 53) m,p-xylene                  | 9.19  | 106  | 191991   | 5.16  | ug/L  | 99       |
| 54) o-xylene                    | 9.59  | 106  | 187228   | 5.13  | ug/L  | 100      |
| 55) Styrene                     | 9.61  | 104  | 313496   | 5.25  | ug/L  | 99       |
| 56) Isopropylbenzene            | 9.98  | 105  | 492271   | 5.18  | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.29 | 83   | 67398    | 5.03  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 10.33 | 75   | 55987    | 5.01  | ug/L  | 99       |
| 61) Bromoform                   | 9.78  | 173  | 33418    | 4.38  | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene         | 11.23 | 146  | 227020   | 5.07  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.32 | 146  | 227364   | 5.08  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.70 | 146  | 215213   | 5.14  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.48 | 75   | 7496     | 4.21  | ug/L  | 95       |
| 67) 1,3,5-Trichlorobenzene      | 12.70 | 180  | 169453   | 4.98  | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene      | 13.32 | 180  | 126896   | 5.09  | ug/L  | 100      |
| 69) Naphthalene                 | 13.56 | 128  | 184238   | 5.05  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.80 | 180  | 121103   | 5.21  | ug/L  | 99       |

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





#2

Dichlorodifluoromethane

Concen: 5.25 ug/L

RT: 1.14 min Scan# 78

Delta R.T. -0.00 min

Lab File: VV006455.D

Acq: 26 Jun 2018 03:54

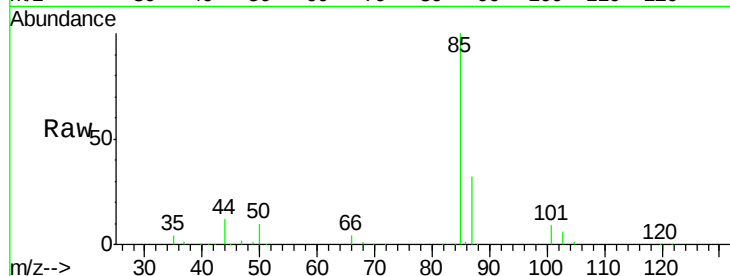
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 85 Resp: 119554

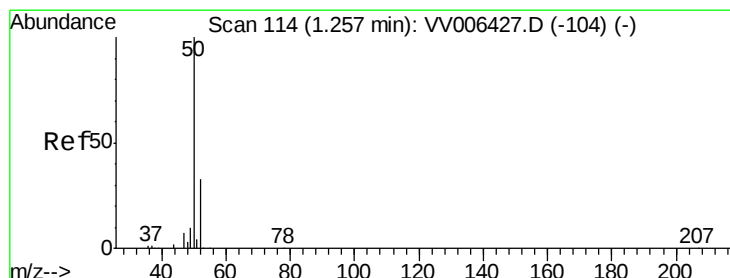
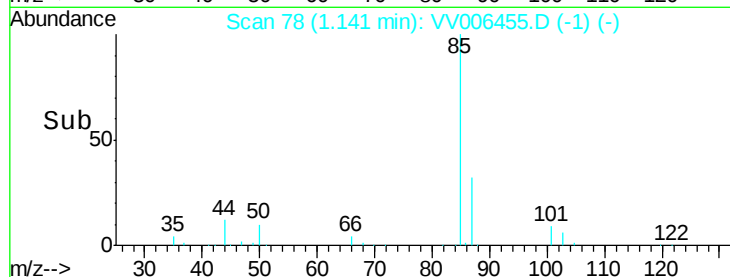
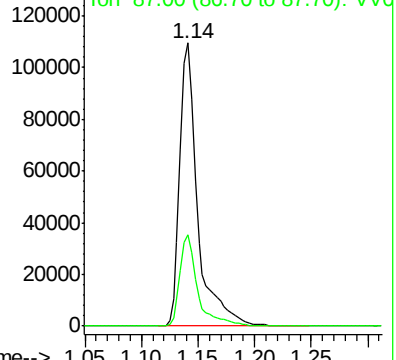
Ion Ratio Lower Upper

85 100

87 31.9 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VV006427.D (-70) (-)



#3

Chloromethane

Concen: 4.93 ug/L

RT: 1.26 min Scan# 114

Delta R.T. -0.00 min

Lab File: VV006455.D

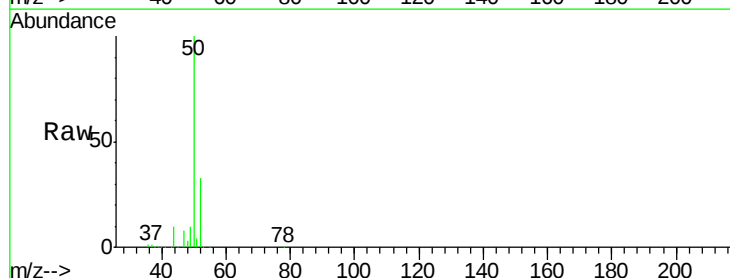
Acq: 26 Jun 2018 03:54

Tgt Ion: 50 Resp: 115036

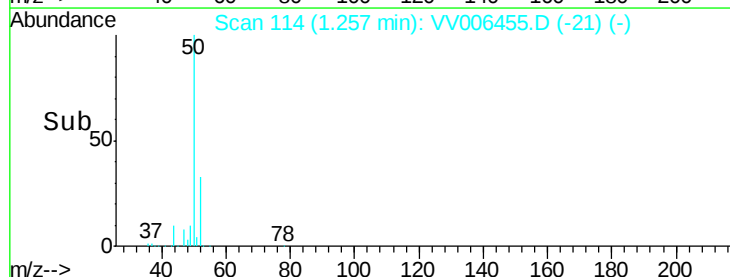
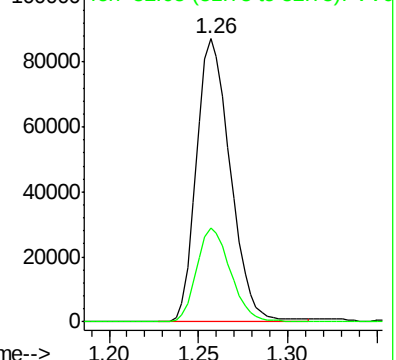
Ion Ratio Lower Upper

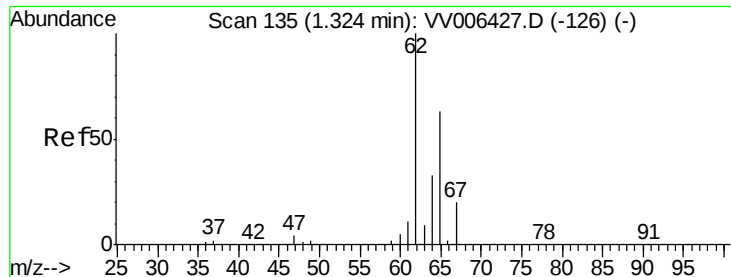
50 100

52 33.1 22.9 42.5



Abundance Ion 50.05 (49.75 to 50.75): VV006427.D (-104) (-)





#5

Vinyl chloride

Concen: 5.12 ug/L

RT: 1.32 min Scan# 135

Delta R.T. -0.00 min

Lab File: VV006455.D

Acq: 26 Jun 2018 03:54

Instrument :

MSVOA\_V

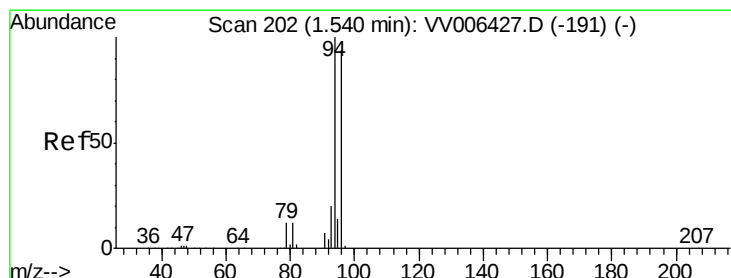
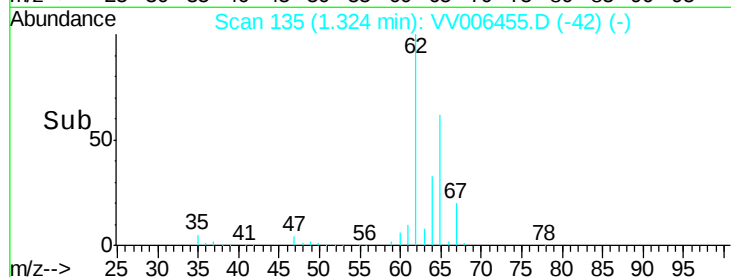
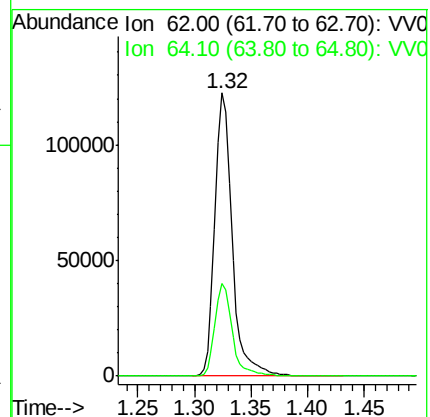
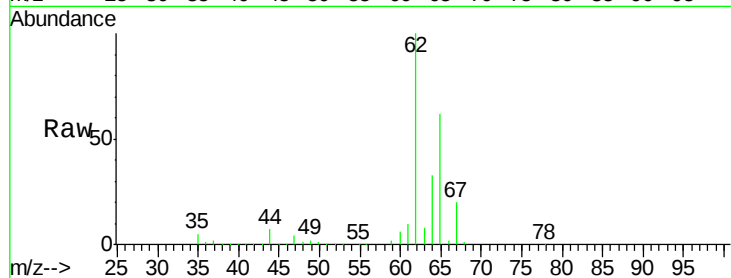
ClientSampled :

Tot Ion: 62 Resp: 129730

Ion Ratio Lower Upper

62 100

64 32.7 23.1 42.9



#6

Bromomethane

Concen: 5.04 ug/L

RT: 1.54 min Scan# 202

Delta R.T. -0.00 min

Lab File: VV006455.D

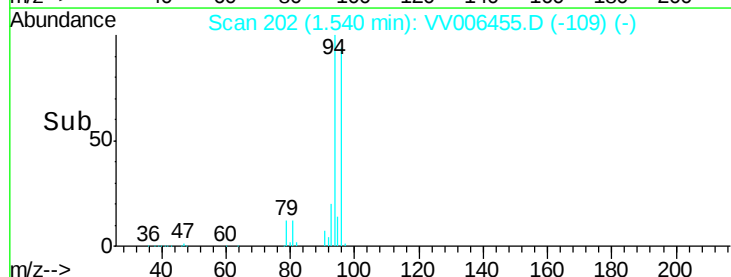
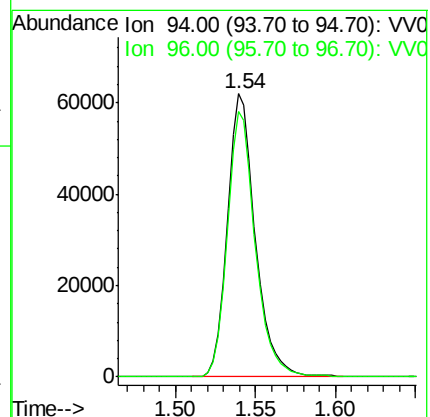
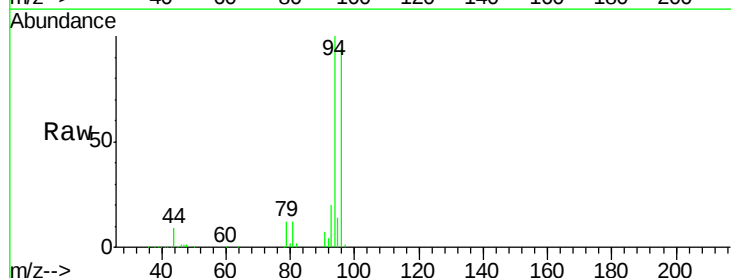
Acq: 26 Jun 2018 03:54

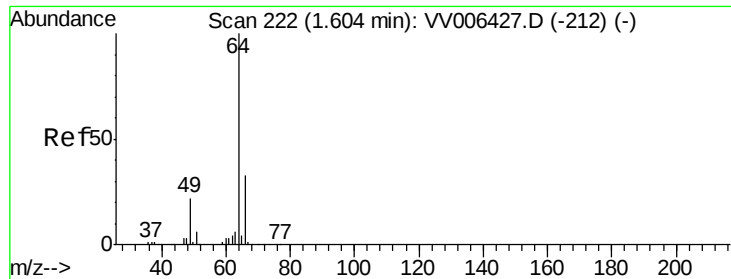
Tgt Ion: 94 Resp: 73971

Ion Ratio Lower Upper

94 100

96 93.8 65.7 122.1





#8

Chloroethane

Concen: 5.08 ug/L

RT: 1.60 min Scan# 222

Delta R.T. -0.00 min

Lab File: VV006455.D

Acq: 26 Jun 2018 03:54

Instrument :

MSVOA\_V

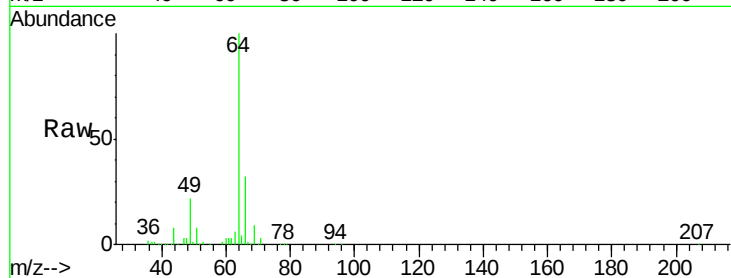
ClientSampleId :

Tot Ion: 64 Resp: 81776

Ion Ratio Lower Upper

64 100

66 32.3 22.8 42.4



Abundance Ion 64.10 (63.80 to 64.80): VV006427.D (-212) (-)

Ion 66.05 (65.75 to 66.75): VV006427.D (-212) (-)

1.60

80000

60000

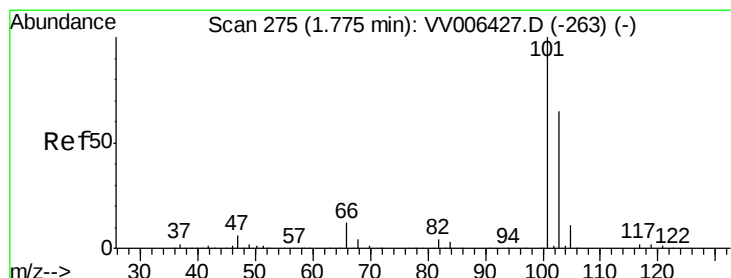
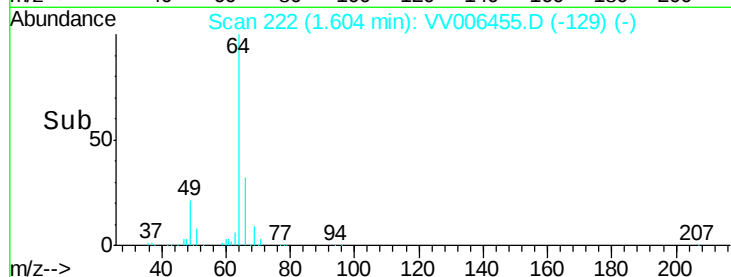
40000

20000

0

1.55 1.60 1.65 1.70

Time-->



#9

Trichlorofluoromethane

Concen: 5.37 ug/L

RT: 1.77 min Scan# 275

Delta R.T. -0.00 min

Lab File: VV006455.D

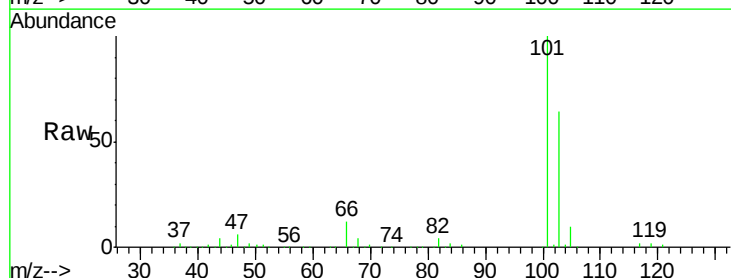
Acq: 26 Jun 2018 03:54

Tgt Ion: 101 Resp: 163550

Ion Ratio Lower Upper

101 100

103 64.6 51.5 77.3



Abundance Ion 101.00 (100.70 to 101.70): VV006427.D (-263) (-)

Ion 103.00 (102.70 to 103.70): VV006427.D (-263) (-)

1.77

150000

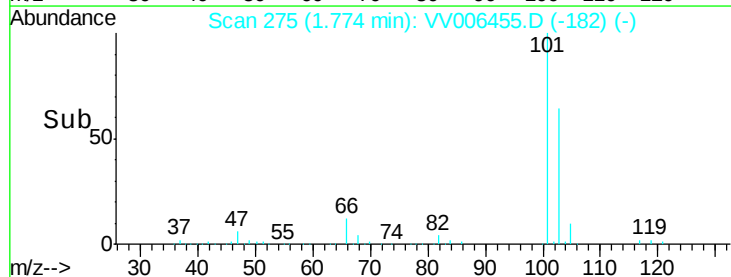
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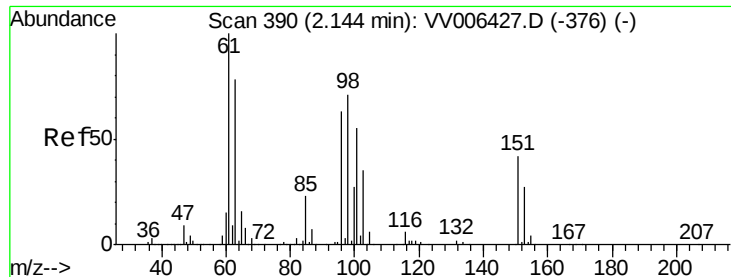
50000

0

1.70 1.75 1.80 1.85

Time-->





#10

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

Concen: 5.38 ug/L

RT: 2.14 min Scan# 390

Delta R.T. -0.00 min

Lab File: VV006455.D

Acq: 26 Jun 2018 03:54

Instrument :

MSVOA\_V

ClientSampleId :

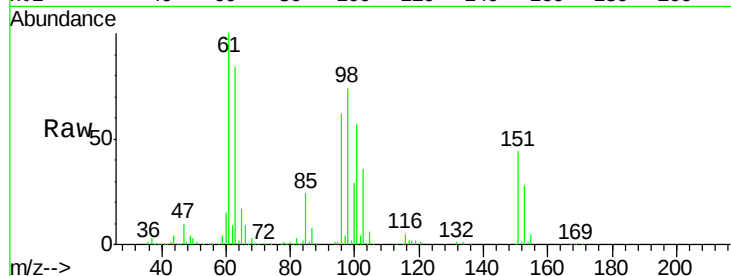
Tot Ion:101 Resp: 103020

Ion Ratio Lower Upper

101 100

85 41.4 33.1 49.7

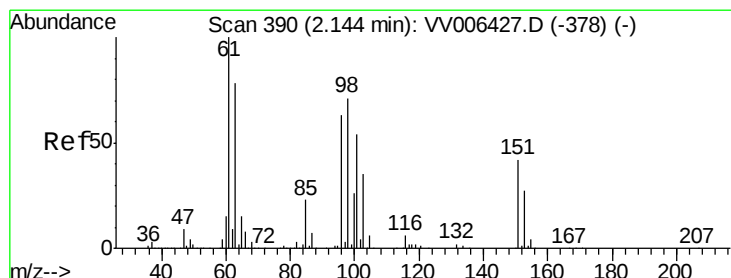
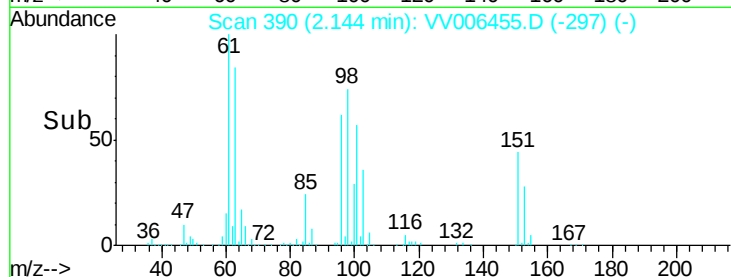
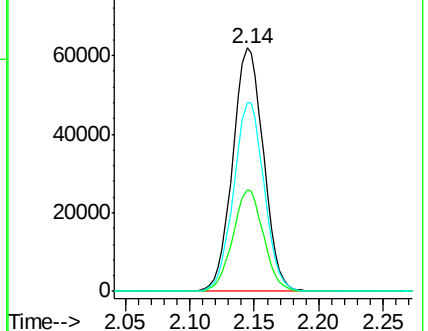
151 76.8 61.7 92.5



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: 5.15 ug/L

RT: 2.15 min Scan# 391

Delta R.T. 0.00 min

Lab File: VV006455.D

Acq: 26 Jun 2018 03:54

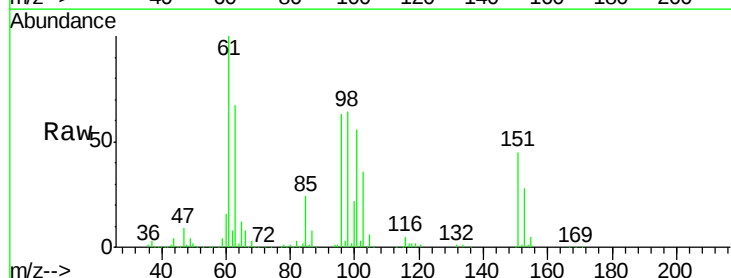
Tgt Ion: 96 Resp: 96833

Ion Ratio Lower Upper

96 100

61 157.8 111.4 207.0

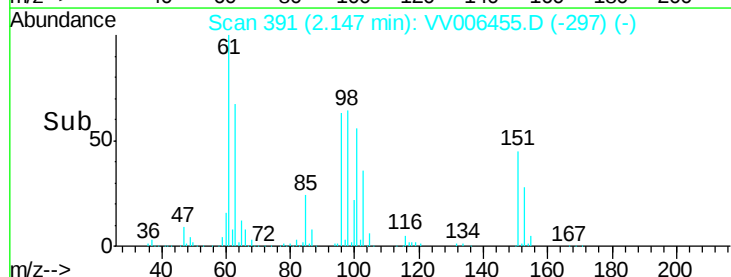
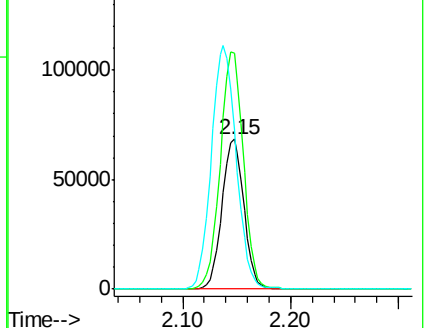
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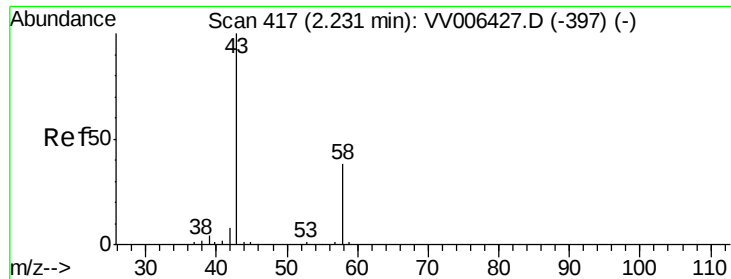


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 43.65 ug/L

RT: 2.21 min Scan# 411

Delta R.T. -0.02 min

Lab File: VV006455.D

Acq: 26 Jun 2018 03:54

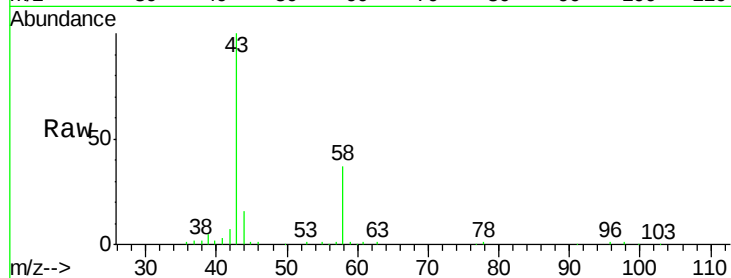
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 43 Resp: 102418

Ion Ratio Lower Upper

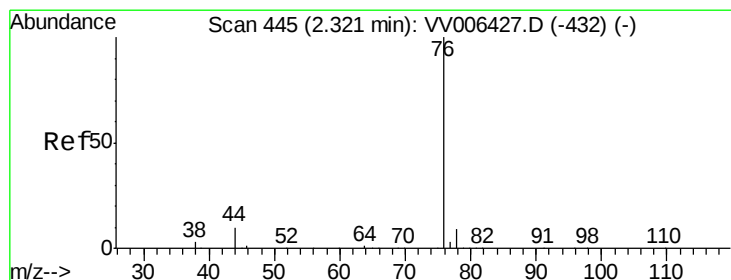
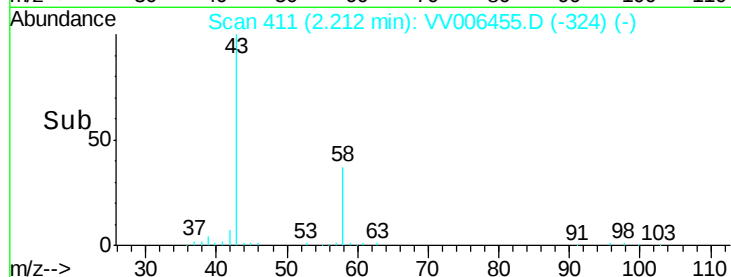
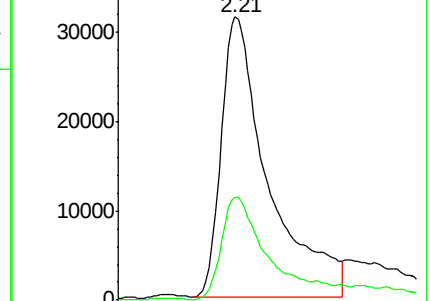
43 100

58 36.8 0.0 77.4



Abundance Ion 43.05 (42.75 to 43.75): VV006427.D (-397) (-)

Ion 58.05 (57.75 to 58.75): VV006427.D (-397) (-)



#14

Carbon disulfide

Concen: 4.31 ug/L

RT: 2.32 min Scan# 446

Delta R.T. 0.00 min

Lab File: VV006455.D

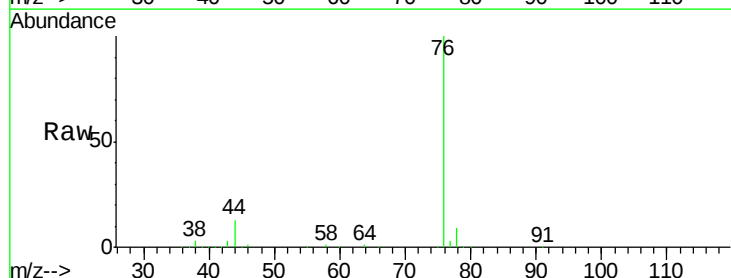
Acq: 26 Jun 2018 03:54

Tgt Ion: 76 Resp: 228739

Ion Ratio Lower Upper

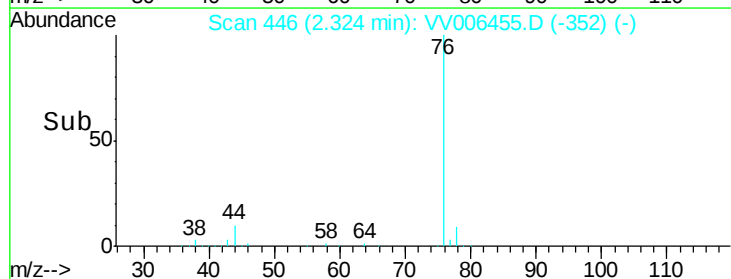
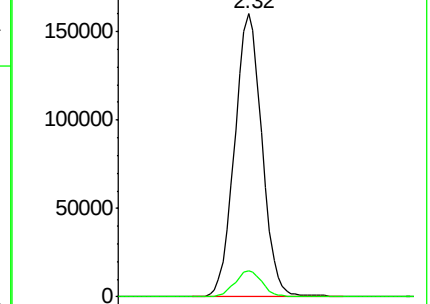
76 100

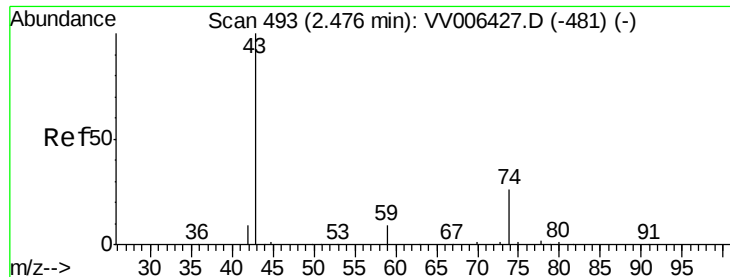
78 9.4 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VV006427.D (-432) (-)

Ion 78.00 (77.70 to 78.70): VV006427.D (-432) (-)

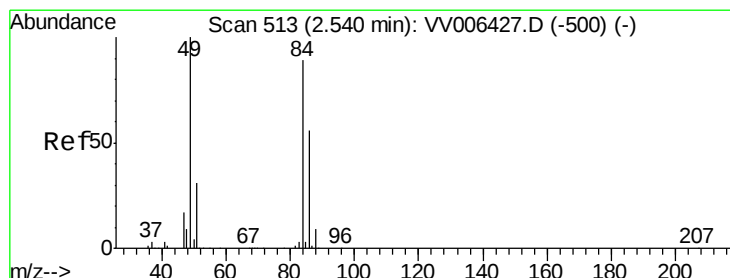
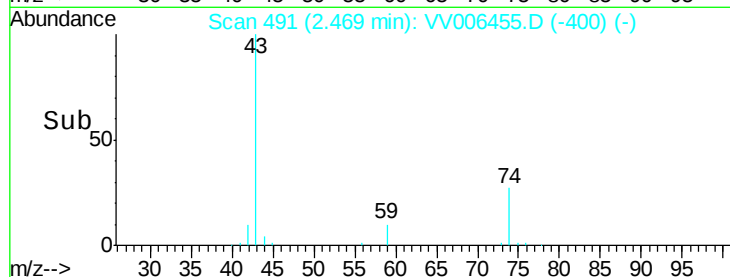
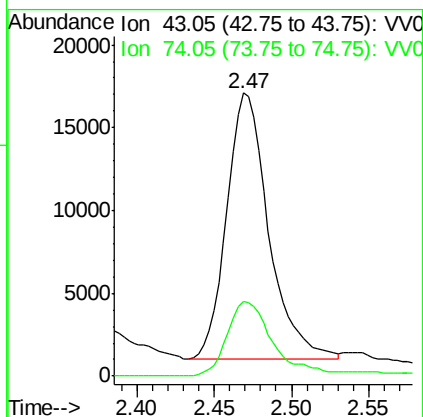
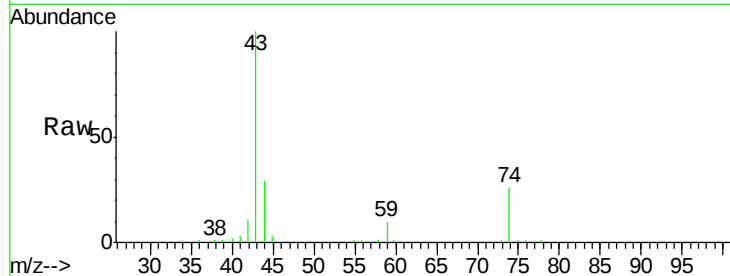




#15  
Methyl Acetate  
Concen: 4.38 ug/L  
RT: 2.47 min Scan# 491  
Delta R.T. -0.01 min  
Lab File: VV006455.D  
Acq: 26 Jun 2018 03:54

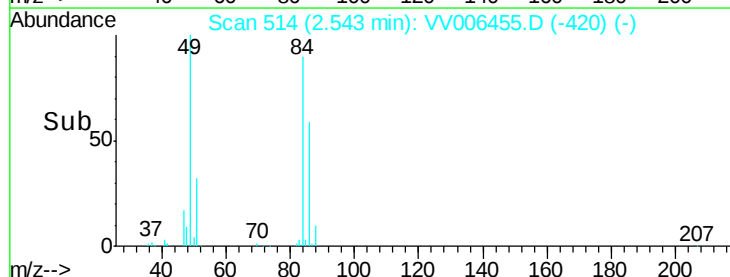
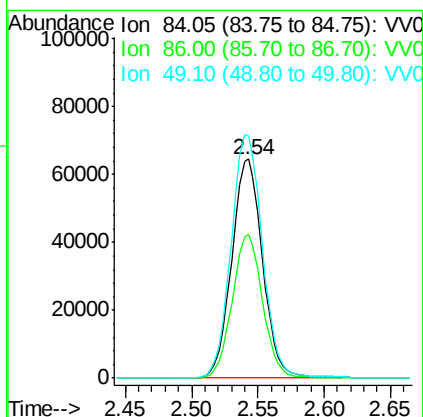
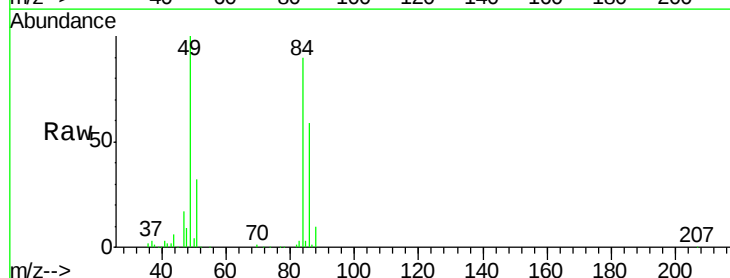
Instrument :  
MSVOA\_V  
ClientSampled :

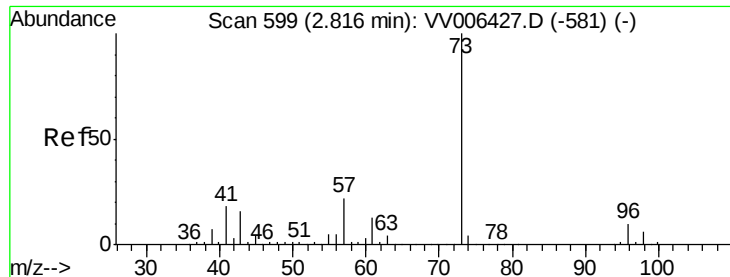
Tot Ion: 43 Resp: 30238  
Ion Ratio Lower Upper  
43 100  
74 30.5 22.2 33.4



#16  
Methylene chloride  
Concen: 4.73 ug/L  
RT: 2.54 min Scan# 514  
Delta R.T. 0.00 min  
Lab File: VV006455.D  
Acq: 26 Jun 2018 03:54

Tgt Ion: 84 Resp: 104182  
Ion Ratio Lower Upper  
84 100  
86 65.7 44.2 82.2  
49 110.8 79.0 146.8

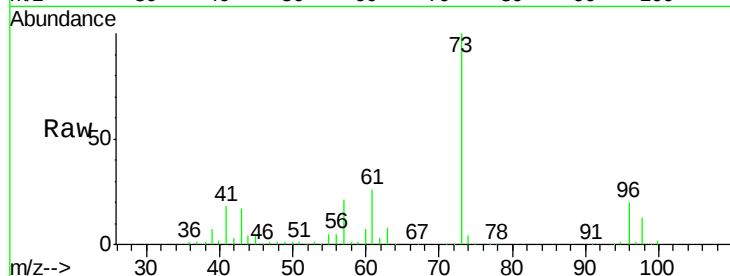




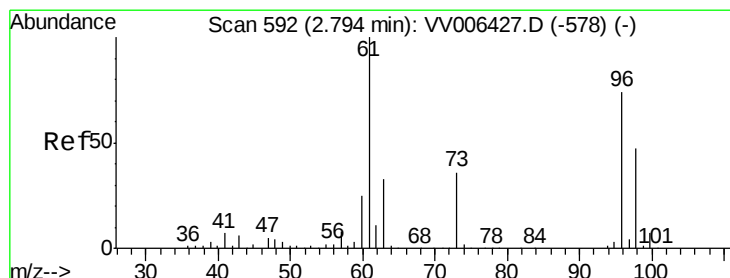
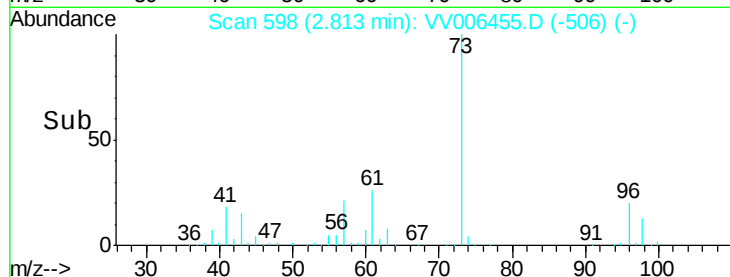
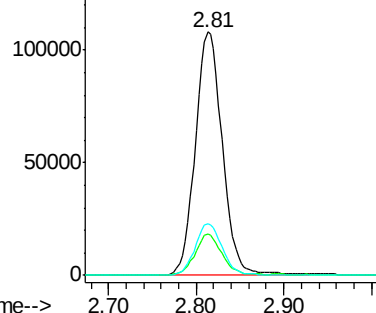
#17  
Methvl tert-butvl Ether  
Concen: 5.11 ug/L  
RT: 2.81 min Scan# 598  
Delta R.T. -0.00 min  
Lab File: VV006455.D  
Acq: 26 Jun 2018 03:54

Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 73 Resp: 232496  
Ion Ratio Lower Upper  
73 100  
43 16.1 12.9 19.3  
57 21.3 17.5 26.3

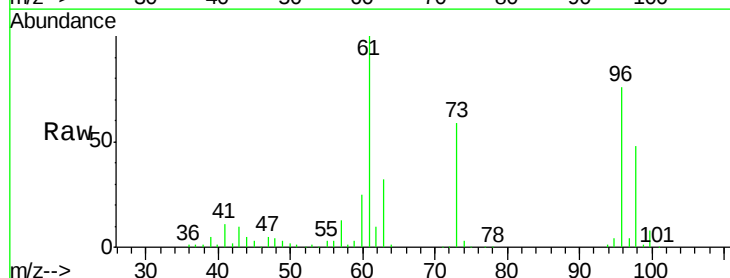


Abundance Ion 73.10 (72.80 to 73.80): VV0  
Ion 43.05 (42.75 to 43.75): VV0  
Ion 57.10 (56.80 to 57.80): VV0

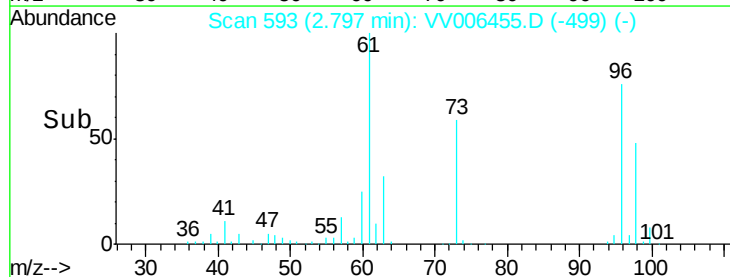
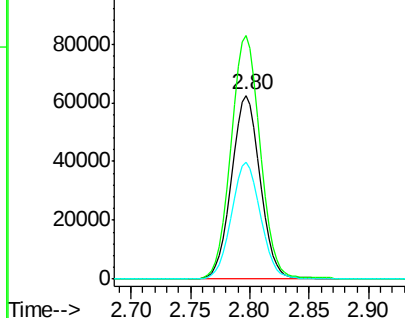


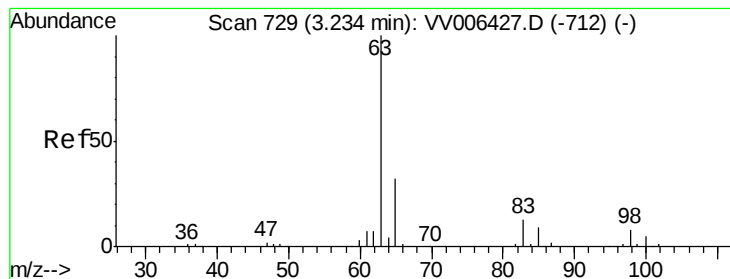
#18  
trans-1,2-Dichloroethene  
Concen: 5.10 ug/L  
RT: 2.80 min Scan# 593  
Delta R.T. 0.00 min  
Lab File: VV006455.D  
Acq: 26 Jun 2018 03:54

Tgt Ion: 96 Resp: 104936  
Ion Ratio Lower Upper  
96 100  
61 132.3 94.4 175.2  
98 63.5 44.3 82.3



Abundance Ion 96.00 (95.70 to 96.70): VV0  
Ion 61.05 (60.75 to 61.75): VV0  
Ion 97.95 (97.65 to 98.65): VV0





#19

1,1-Dichloroethane

Concen: 5.03 ug/L

RT: 3.23 min Scan# 729

Delta R.T. -0.00 min

Lab File: VV006455.D

Acq: 26 Jun 2018 03:54

Instrument :  
MSVOA\_V  
ClientSampleId :

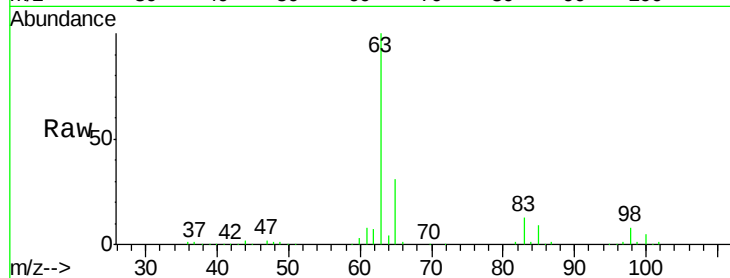
Tot Ion: 63 Resp: 184260

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 65  | 31.4  | 22.2  | 41.2  |
| 83  | 13.5  | 9.2   | 17.2  |

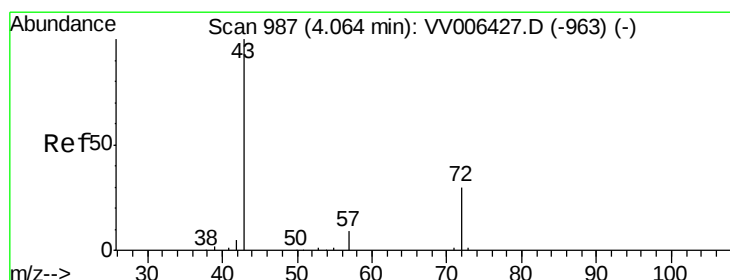
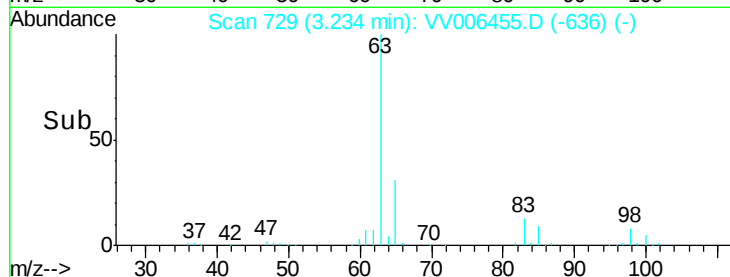
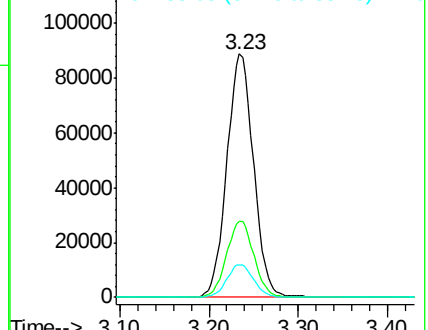
63 100

65 31.4 22.2 41.2

83 13.5 9.2 17.2



Abundance Ion 63.10 (62.80 to 63.80): VV0  
Ion 65.10 (64.80 to 65.80): VV0  
Ion 83.05 (82.75 to 83.75): VV0



#21

2-Butanone

Concen: 48.50 ug/L

RT: 4.05 min Scan# 983

Delta R.T. -0.01 min

Lab File: VV006455.D

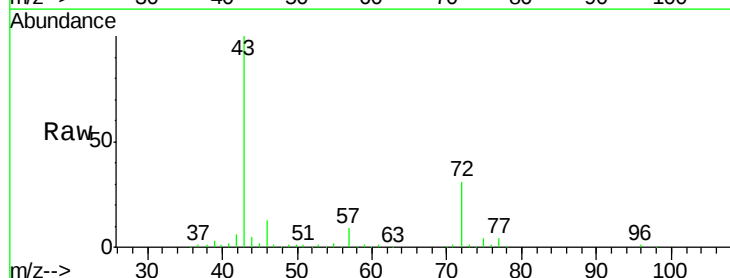
Acq: 26 Jun 2018 03:54

Tgt Ion: 43 Resp: 205621

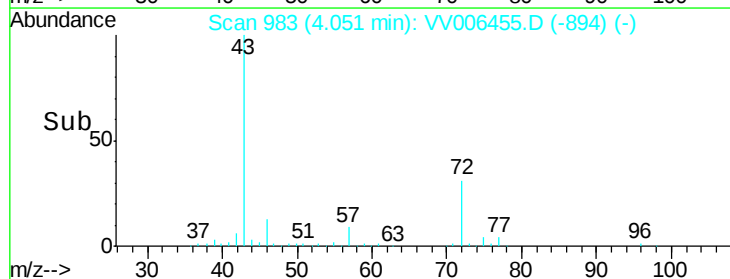
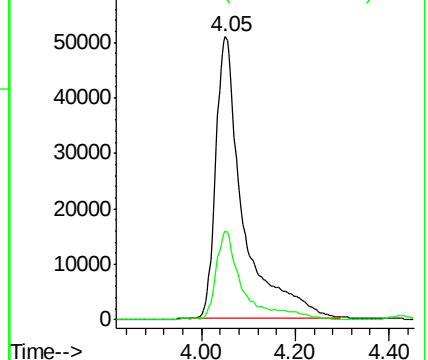
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 26.5  | 15.4  | 46.1  |

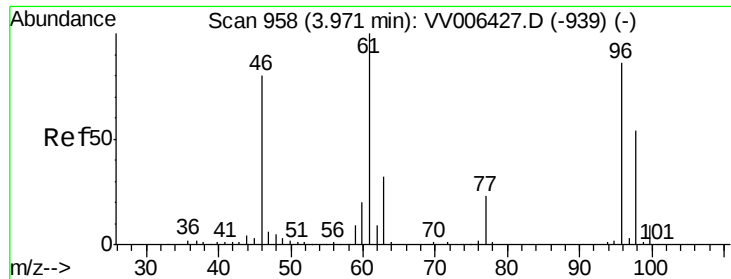
43 100

72 26.5 15.4 46.1



Abundance Ion 43.05 (42.75 to 43.75): VV0  
Ion 72.10 (71.80 to 72.80): VV0





#22

cis-1,2-Dichloroethene

Concen: 5.04 ug/L

RT: 3.97 min Scan# 958

Delta R.T. -0.00 min

Lab File: VV006455.D

Acq: 26 Jun 2018 03:54

Instrument :  
MSVOA\_V  
ClientSampleId :

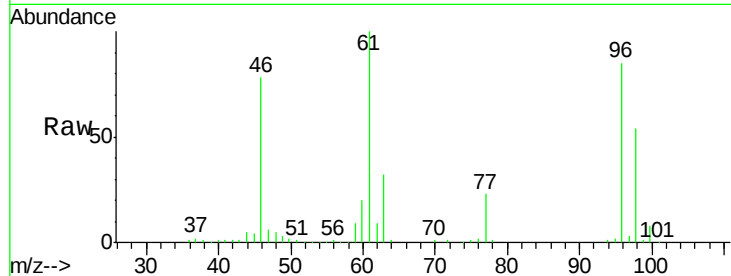
Tot Ion: 96 Resp: 113892

Ion Ratio Lower Upper

96 100

61 118.1 81.8 151.8

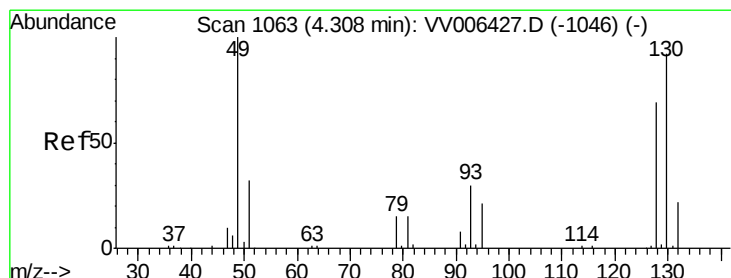
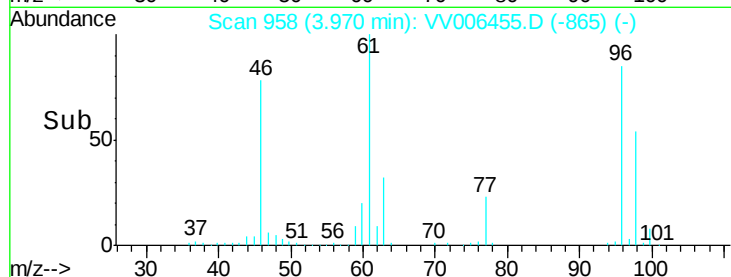
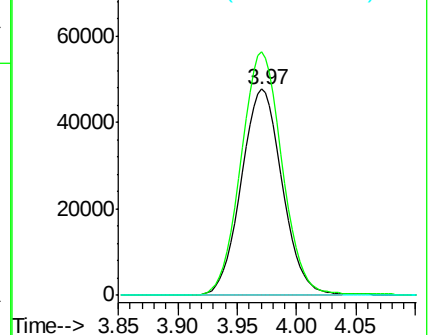
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV006427.D (-939) (-)

Ion 61.05 (60.75 to 61.75): VV006427.D (-939) (-)

Ion 68.15 (67.85 to 68.85): VV006427.D (-939) (-)



#23

Bromochloromethane

Concen: 5.00 ug/L

RT: 4.31 min Scan# 1063

Delta R.T. -0.00 min

Lab File: VV006455.D

Acq: 26 Jun 2018 03:54

Tgt Ion: 128 Resp: 45979

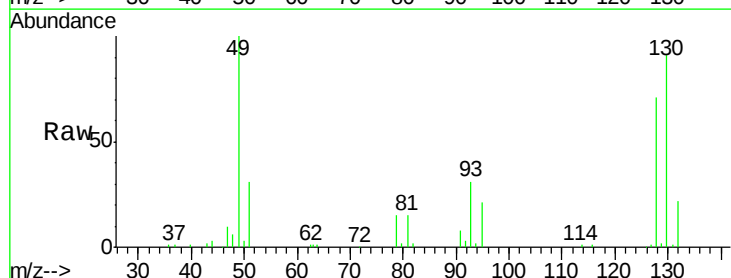
Ion Ratio Lower Upper

128 100

49 140.5 101.2 188.0

130 128.5 93.0 172.6

51 43.9 37.0 55.6

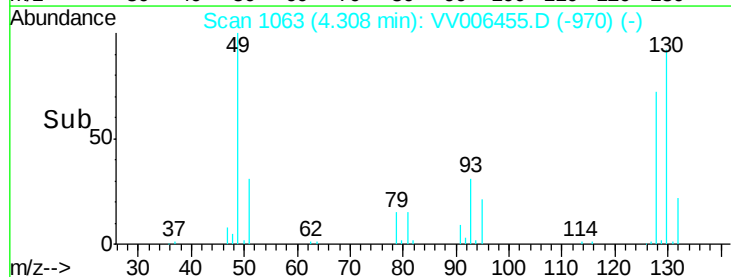
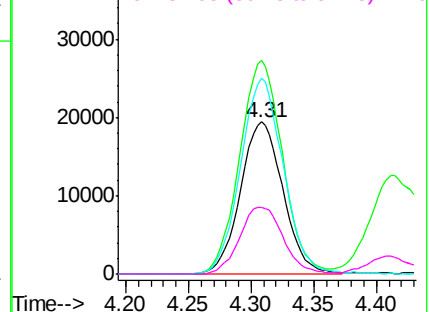


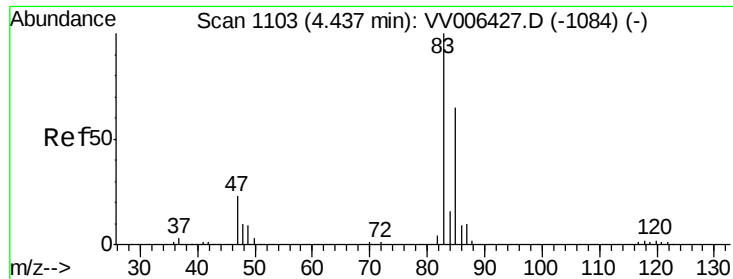
Abundance Ion 127.90 (127.60 to 128.60): VV006427.D (-1046) (-)

Ion 49.10 (48.80 to 49.80): VV006427.D (-1046) (-)

Ion 129.95 (129.65 to 130.65): VV006427.D (-1046) (-)

Ion 51.05 (50.75 to 51.75): VV006427.D (-1046) (-)

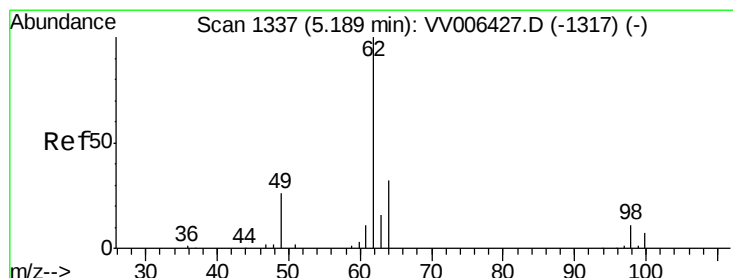
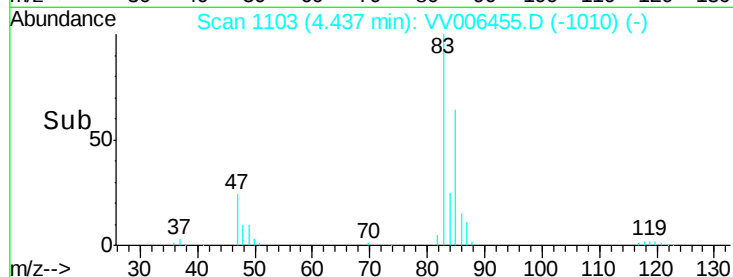
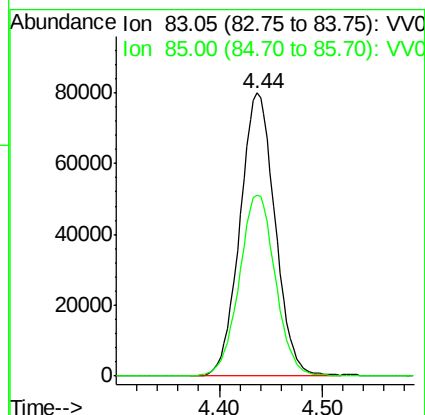
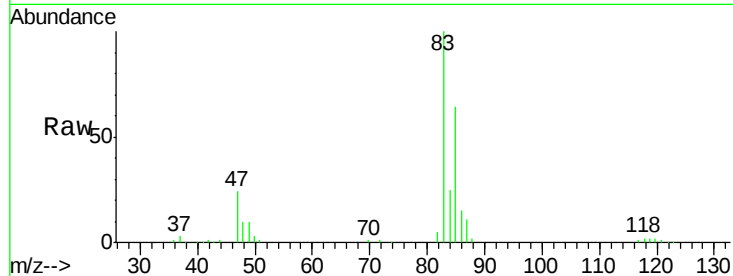




#25  
Chloroform  
Concen: 5.12 ug/L  
RT: 4.44 min Scan# 1103  
Delta R.T. -0.00 min  
Lab File: VV006455.D  
Acq: 26 Jun 2018 03:54

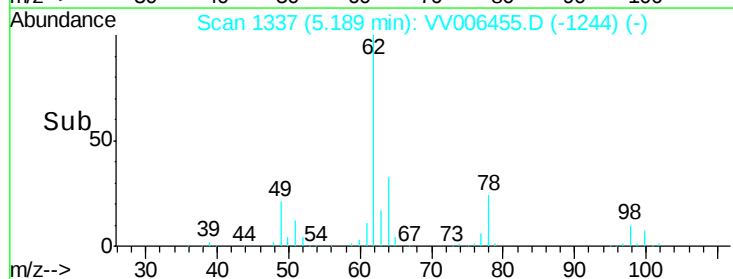
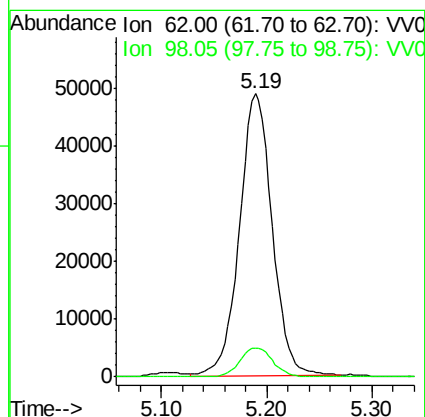
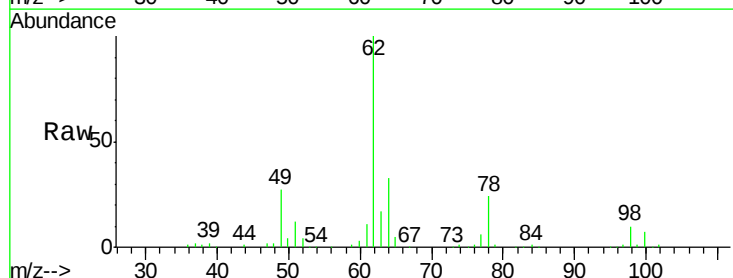
Instrument :  
MSVOA\_V  
ClientSampleId :

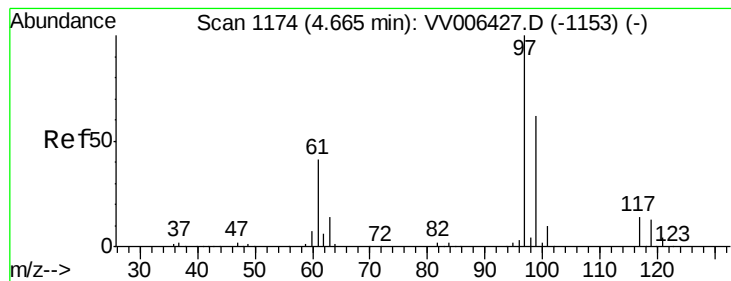
Tot Ion: 83 Resp: 189205  
Ion Ratio Lower Upper  
83 100  
85 64.2 45.6 84.6



#27  
1,2-Dichloroethane  
Concen: 5.07 ug/L  
RT: 5.19 min Scan# 1337  
Delta R.T. -0.00 min  
Lab File: VV006455.D  
Acq: 26 Jun 2018 03:54

Tgt Ion: 62 Resp: 105119  
Ion Ratio Lower Upper  
62 100  
98 10.2 8.8 13.2





#29

1,1,1-Trichloroethane

Concen: 4.92 ug/L

RT: 4.66 min Scan# 1174

Delta R.T. -0.00 min

Lab File: VV006455.D

Acq: 26 Jun 2018 03:54

Instrument :  
MSVOA\_V  
ClientSampleId :

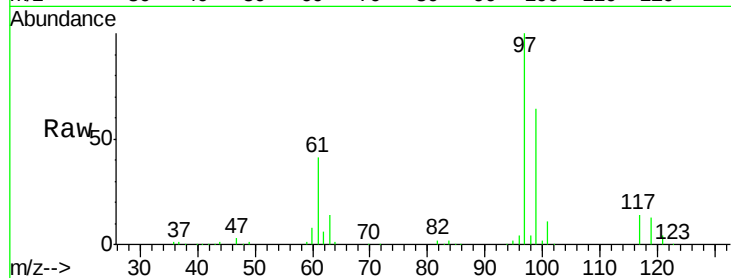
Tot Ion: 97 Resp: 152873

Ion Ratio Lower Upper

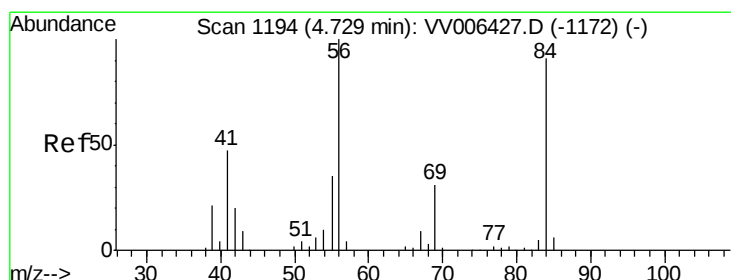
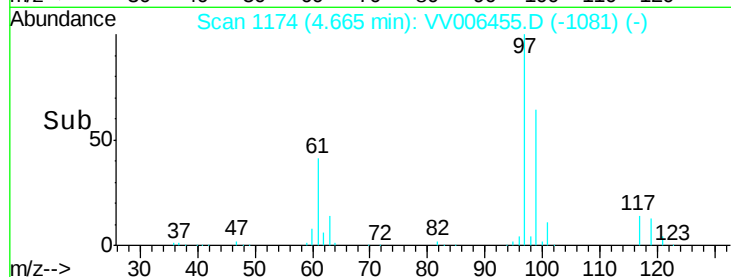
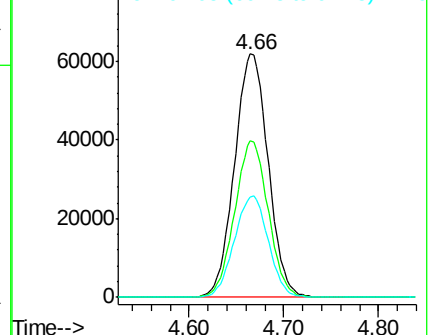
97 100

99 64.1 51.0 76.4

61 42.1 33.8 50.6



Abundance Ion 96.95 (96.65 to 97.65): VV0  
Ion 99.05 (98.75 to 99.75): VV0  
Ion 61.05 (60.75 to 61.75): VV0



#30

Cyclohexane

Concen: 5.10 ug/L

RT: 4.73 min Scan# 1195

Delta R.T. 0.00 min

Lab File: VV006455.D

Acq: 26 Jun 2018 03:54

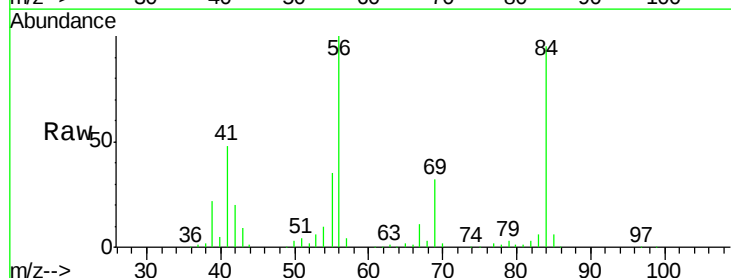
Tgt Ion: 56 Resp: 158225

Ion Ratio Lower Upper

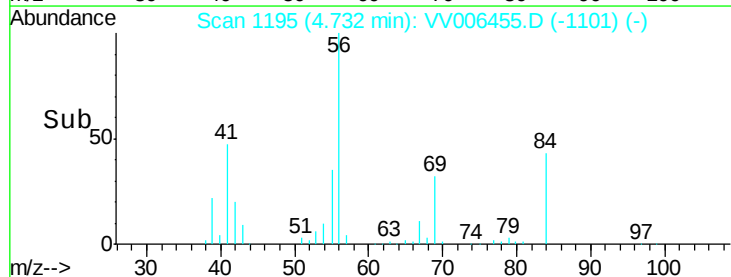
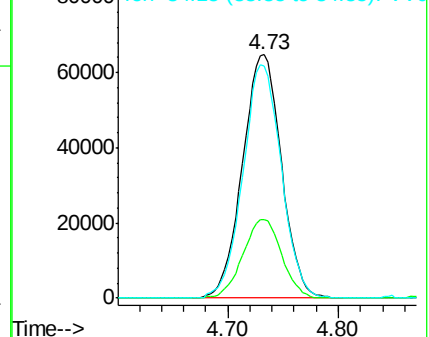
56 100

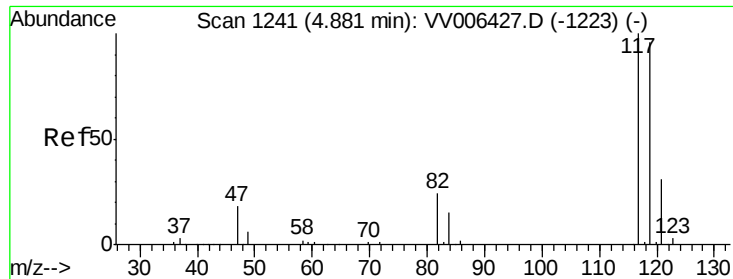
69 32.1 25.6 38.4

84 94.7 75.4 113.0



Abundance Ion 56.10 (55.80 to 56.80): VV0  
Ion 69.15 (68.85 to 69.85): VV0  
Ion 84.15 (83.85 to 84.85): VV0





#31

Carbon tetrachloride

Concen: 4.86 ug/L

RT: 4.88 min Scan# 1242

Delta R.T. 0.00 min

Lab File: VV006455.D

Acq: 26 Jun 2018 03:54

Instrument :

MSVOA\_V

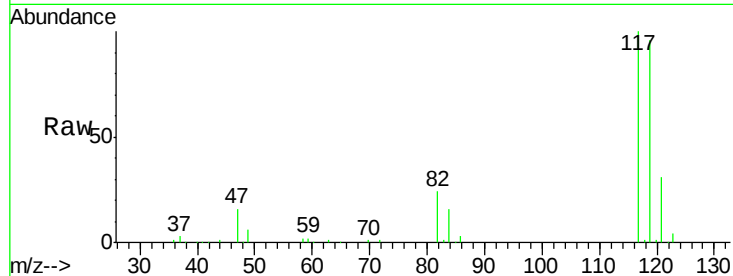
ClientSampleId :

Tot Ion:117 Resp: 126525

Ion Ratio Lower Upper

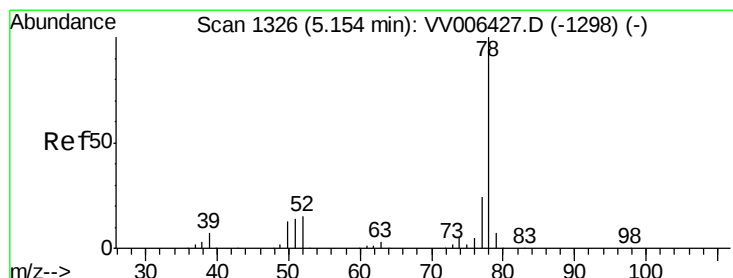
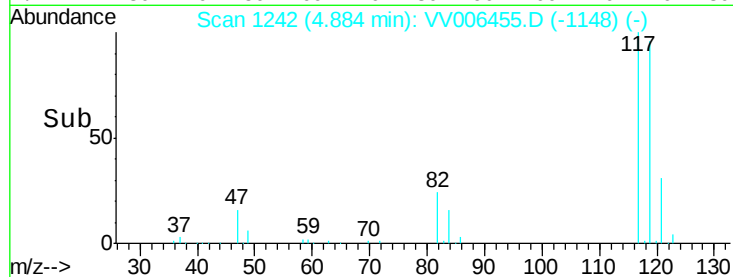
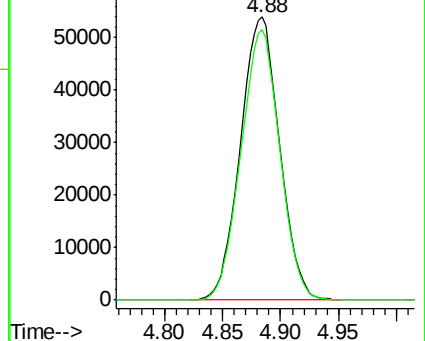
117 100

119 95.0 77.4 116.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.10 ug/L

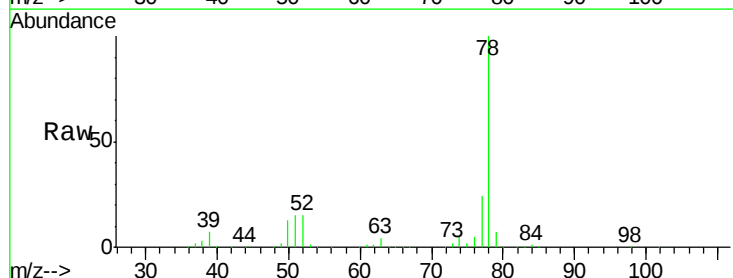
RT: 5.15 min Scan# 1326

Delta R.T. -0.00 min

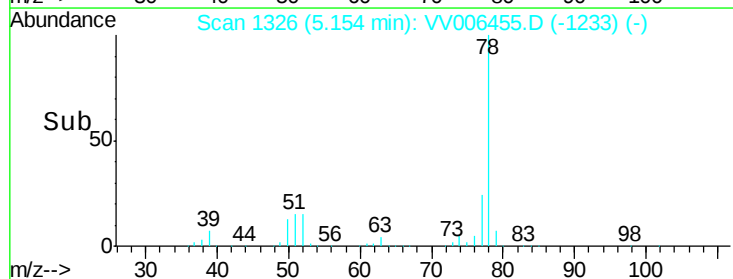
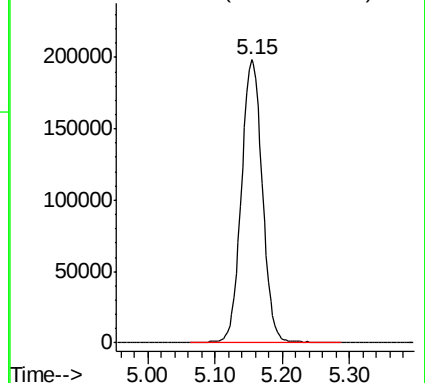
Lab File: VV006455.D

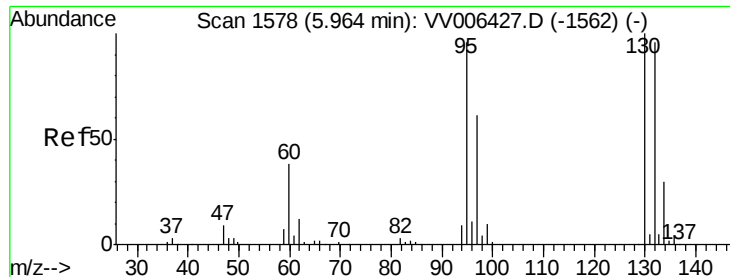
Acq: 26 Jun 2018 03:54

Tgt Ion: 78 Resp: 428805



Abundance Ion 78.10 (77.80 to 78.80): VV0

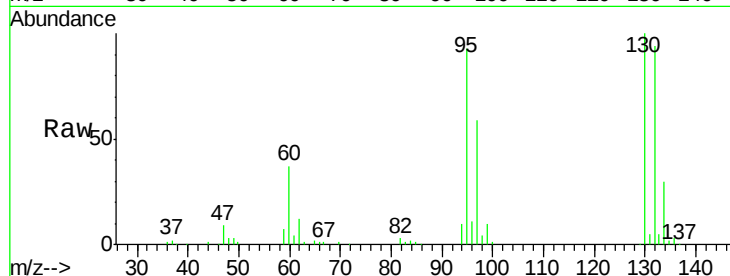




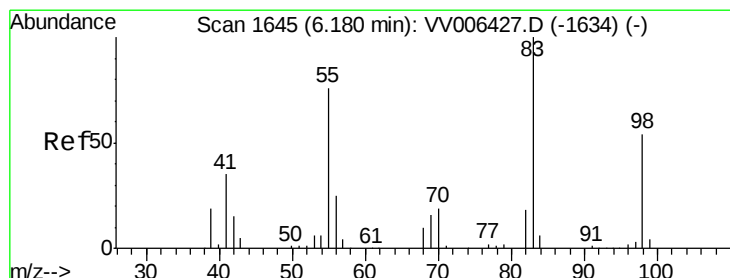
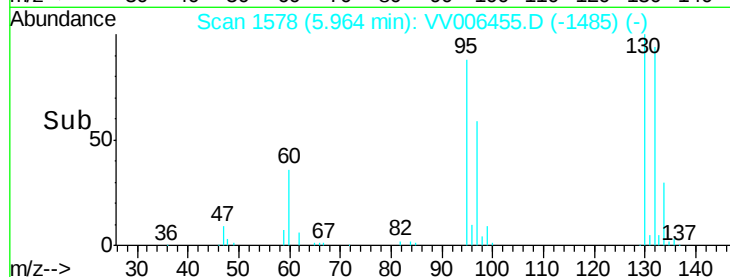
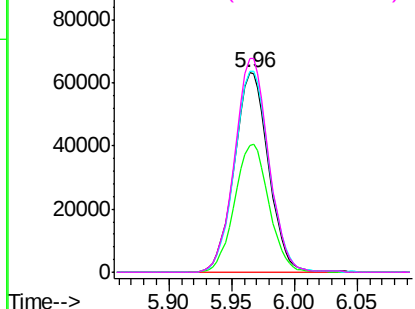
#34  
 Trichloroethene  
 Concen: 4.98 ug/L  
 RT: 5.96 min Scan# 1578  
 Delta R.T. -0.00 min  
 Lab File: VV006455.D  
 Acq: 26 Jun 2018 03:54

Instrument :  
 MSVOA\_V  
 ClientSampled :

Tot Ion: 95 Resp: 119717  
 Ion Ratio Lower Upper  
 95 100  
 97 63.6 44.6 82.8  
 132 100.8 70.1 130.1  
 130 107.1 73.3 136.1

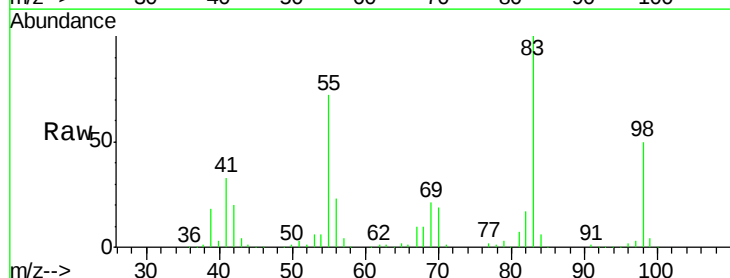


Abundance Ion 95.00 (94.70 to 95.70): VV0  
 Ion 96.95 (96.65 to 97.65): VV0  
 Ion 131.95 (131.65 to 132.65): V  
 Ion 129.95 (129.65 to 130.65): V

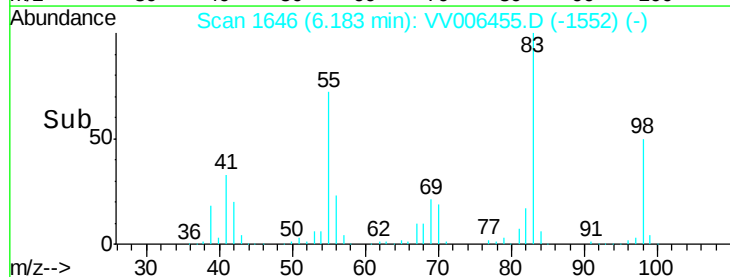
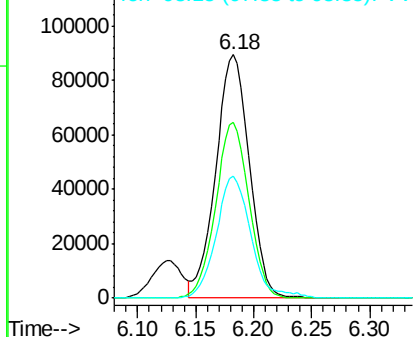


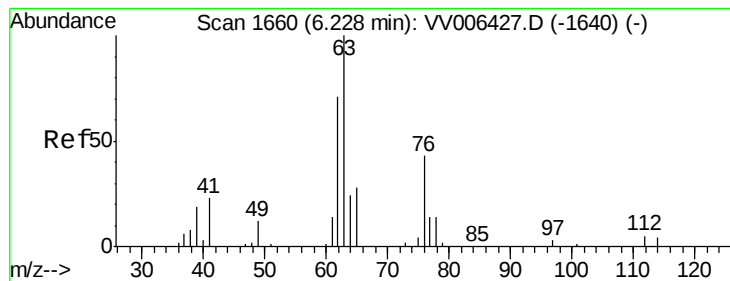
#35  
 Methylcyclohexane  
 Concen: 5.13 ug/L  
 RT: 6.18 min Scan# 1646  
 Delta R.T. 0.00 min  
 Lab File: VV006455.D  
 Acq: 26 Jun 2018 03:54

Tgt Ion: 83 Resp: 179480  
 Ion Ratio Lower Upper  
 83 100  
 55 71.7 57.5 86.3  
 98 51.8 39.6 59.4



Abundance Ion 83.15 (82.85 to 83.85): VV0  
 Ion 55.10 (54.80 to 55.80): VV0  
 Ion 98.15 (97.85 to 98.85): VV0





#37

1,2-Dichloropropane

Concen: 5.08 ug/L

RT: 6.23 min Scan# 1660

Delta R.T. -0.00 min

Lab File: VV006455.D

Acq: 26 Jun 2018 03:54

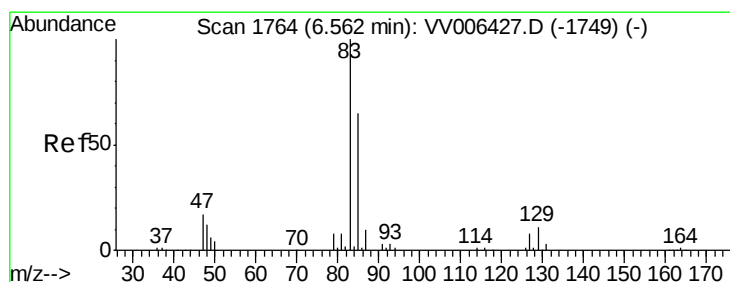
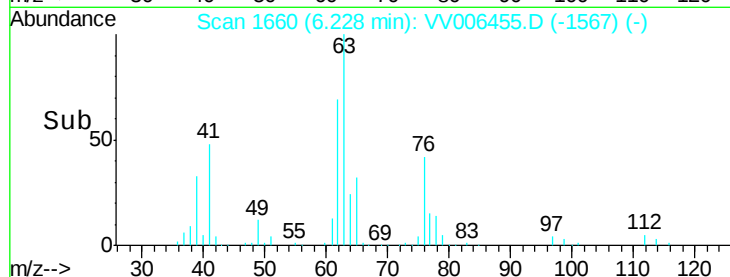
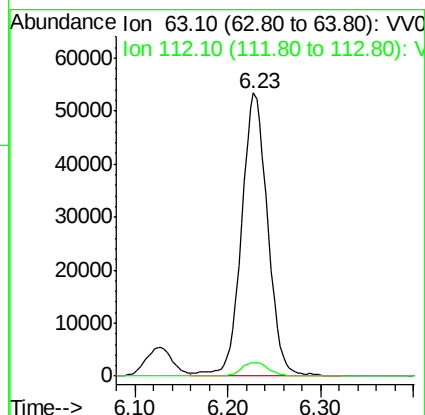
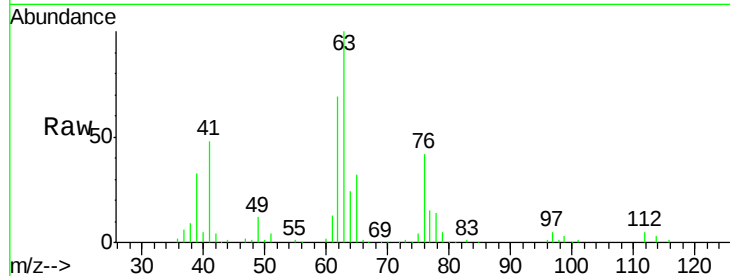
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 63 Resp: 104495

Ion Ratio Lower Upper

63 100

112 4.9 4.0 6.0



#38

Bromodichloromethane

Concen: 4.66 ug/L

RT: 6.56 min Scan# 1764

Delta R.T. -0.00 min

Lab File: VV006455.D

Acq: 26 Jun 2018 03:54

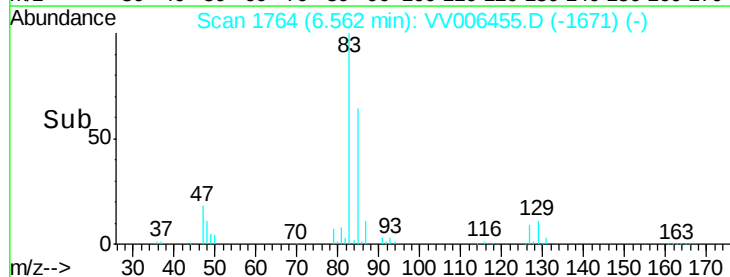
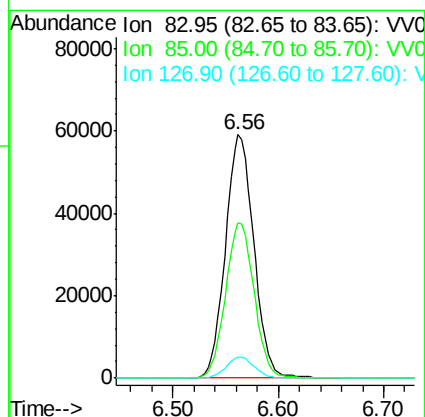
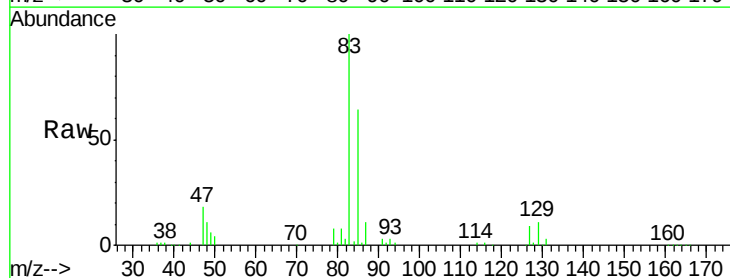
Tgt Ion: 83 Resp: 110142

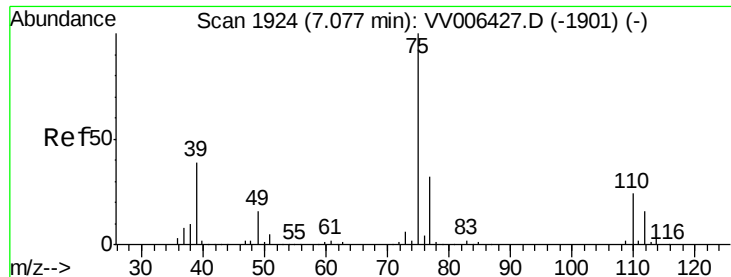
Ion Ratio Lower Upper

83 100

85 63.9 45.1 83.9

127 8.7 6.6 9.8

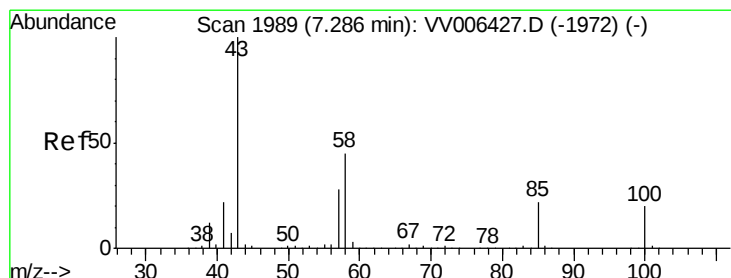
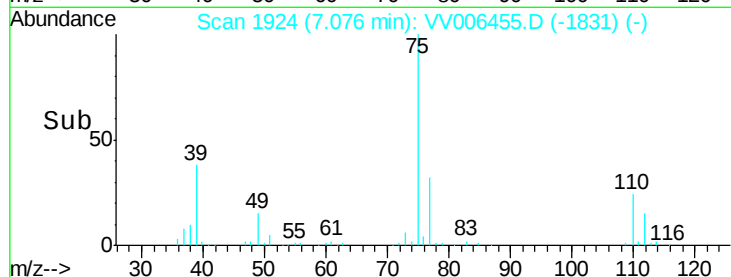
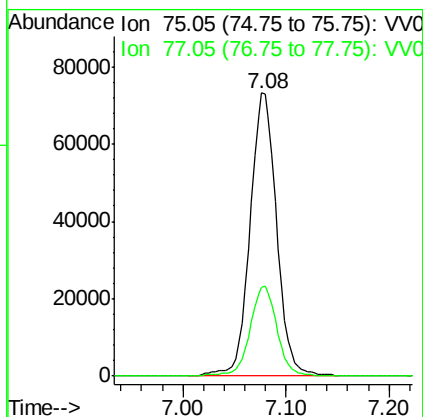
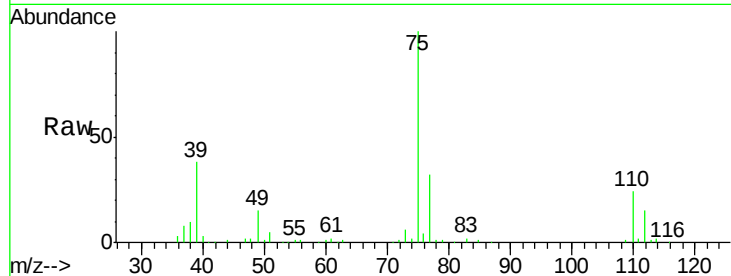




#39  
 cis-1,3-Dichloropropene  
 Concen: 4.58 ug/L  
 RT: 7.08 min Scan# 1924  
 Delta R.T. -0.00 min  
 Lab File: VV006455.D  
 Acq: 26 Jun 2018 03:54

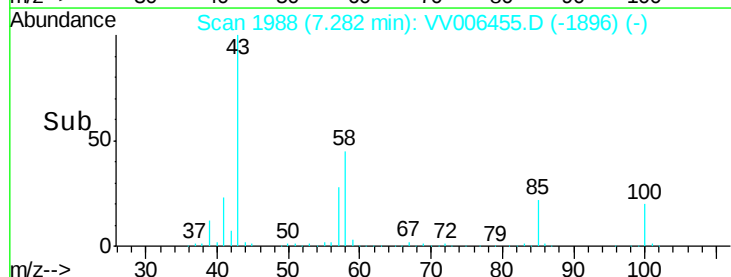
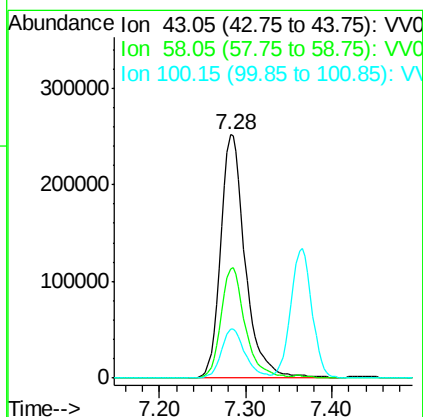
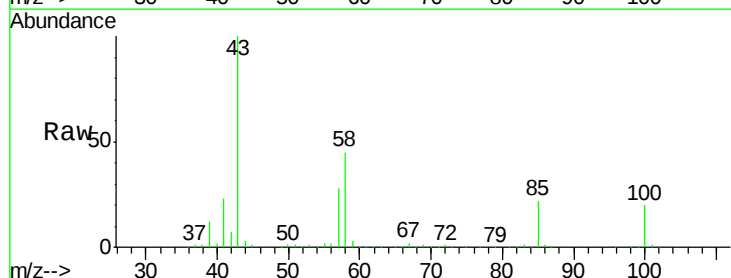
Instrument :  
 MSVOA\_V  
 ClientSampleId :

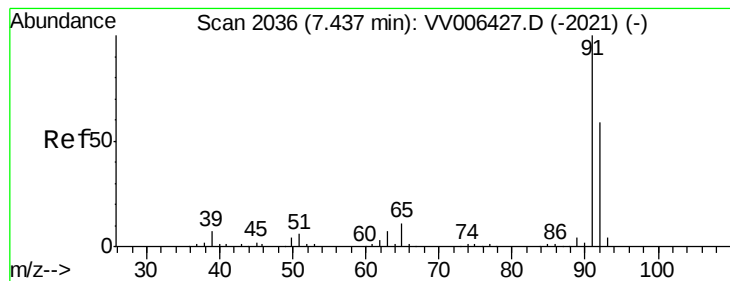
Tot Ion: 75 Resp: 130949  
 Ion Ratio Lower Upper  
 75 100  
 77 31.6 22.3 41.3



#40  
 4-Methyl-2-pentanone  
 Concen: 50.06 ug/L  
 RT: 7.28 min Scan# 1988  
 Delta R.T. -0.00 min  
 Lab File: VV006455.D  
 Acq: 26 Jun 2018 03:54

Tgt Ion: 43 Resp: 500626  
 Ion Ratio Lower Upper  
 43 100  
 58 44.4 35.4 53.2  
 100 19.6 15.5 23.3





#42

Toluene

Concen: 5.13 ug/L

RT: 7.44 min Scan# 2036

Delta R.T. -0.00 min

Lab File: VV006455.D

Acq: 26 Jun 2018 03:54

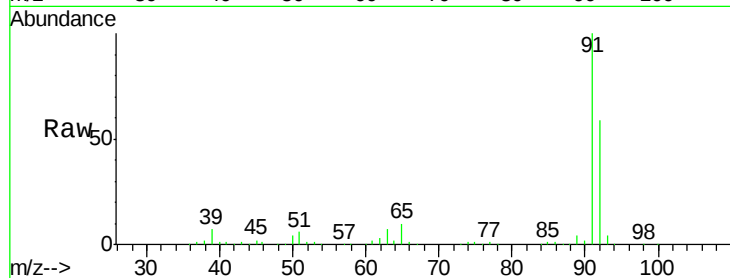
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 91 Resp: 456812

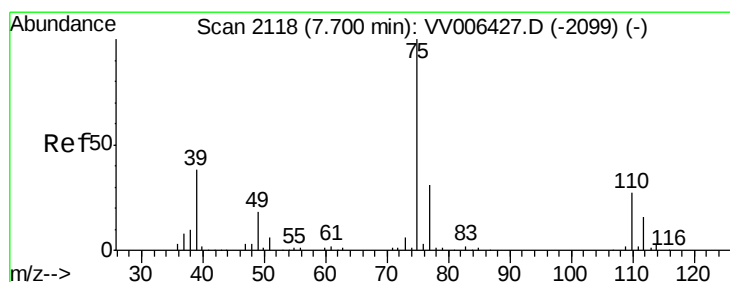
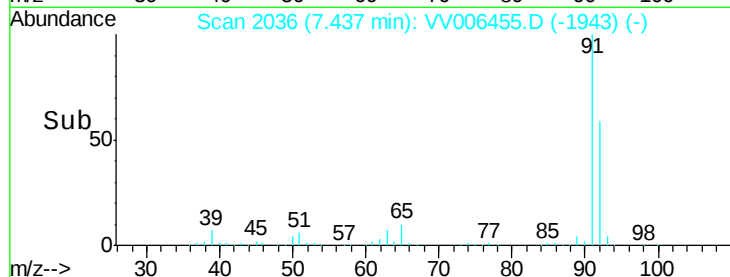
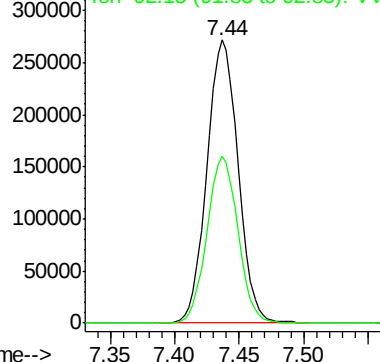
Ion Ratio Lower Upper

91 100

92 59.1 41.2 76.4



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



#44

trans-1,3-Dichloropropene

Concen: 4.43 ug/L

RT: 7.70 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VV006455.D

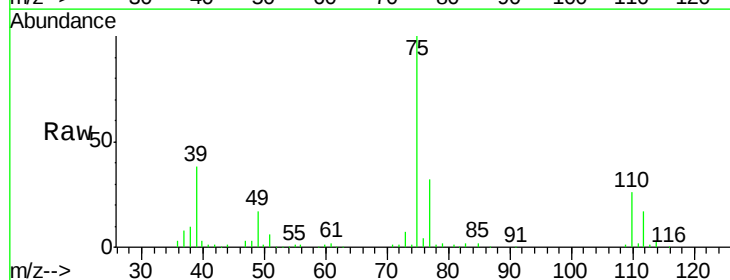
Acq: 26 Jun 2018 03:54

Tgt Ion: 75 Resp: 99357

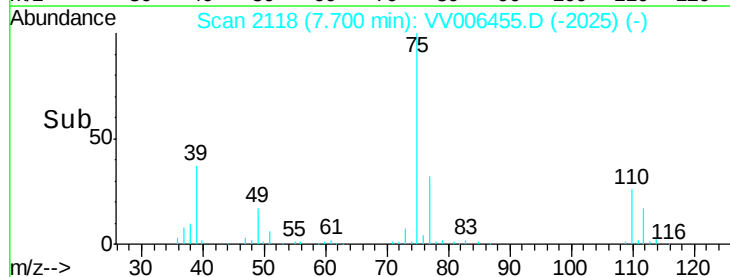
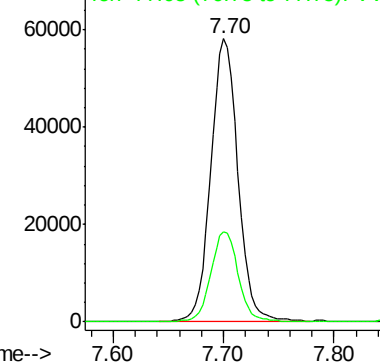
Ion Ratio Lower Upper

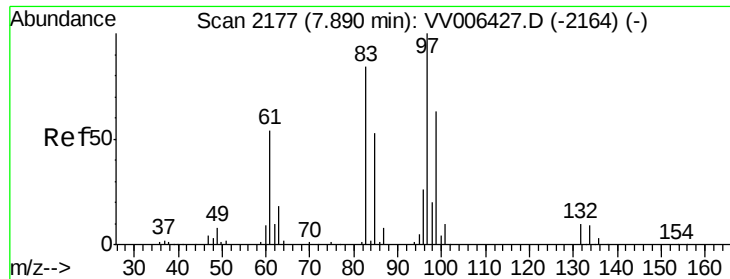
75 100

77 31.8 21.6 40.2



Abundance Ion 75.05 (74.75 to 75.75): VV0  
Ion 77.05 (76.75 to 77.75): VV0

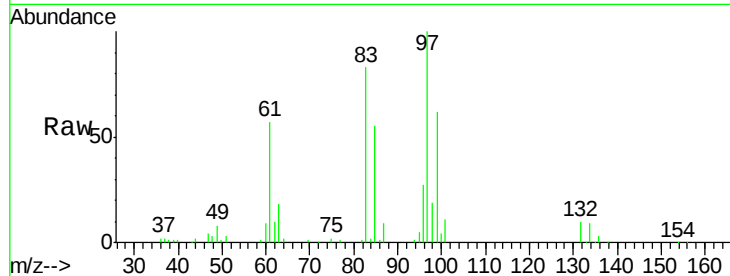




#45  
 1,1,2-Trichloroethane  
 Concen: 5.06 ug/L  
 RT: 7.89 min Scan# 2177  
 Delta R.T. -0.00 min  
 Lab File: VV006455.D  
 Acq: 26 Jun 2018 03:54

Instrument :  
 MSVOA\_V  
 ClientSampleID :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 71848 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 61.8  | 44.2  | 82.2  |
| 83       | 83.3  | 59.0  | 109.6 |
| 85       | 54.8  | 36.8  | 68.3  |

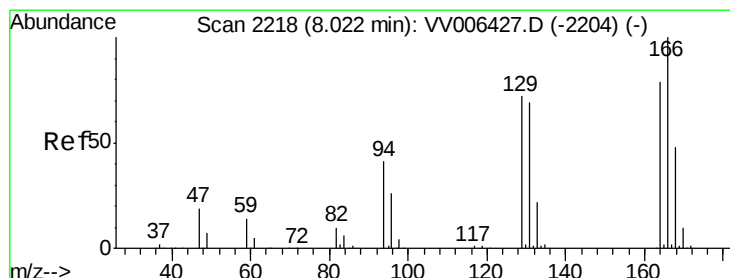
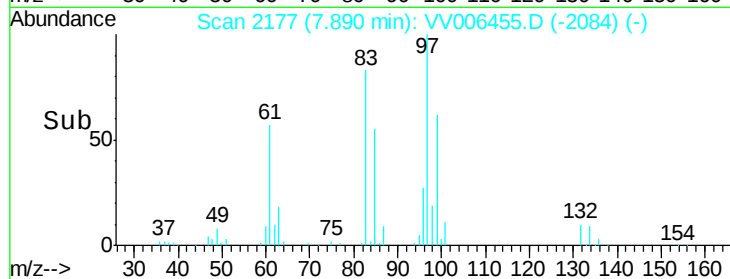
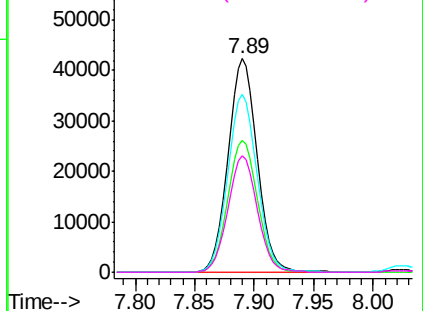


Abundance Ion 96.95 (96.65 to 97.65): VV006455.D (-2084) (-)

Ion 99.05 (98.75 to 99.75): VV006455.D (-2084) (-)

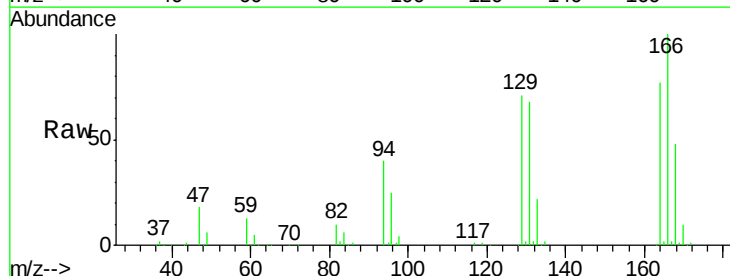
Ion 82.95 (82.65 to 83.65): VV006455.D (-2084) (-)

Ion 85.00 (84.70 to 85.70): VV006455.D (-2084) (-)



#47  
 Tetrachloroethene  
 Concen: 5.05 ug/L  
 RT: 8.02 min Scan# 2219  
 Delta R.T. 0.00 min  
 Lab File: VV006455.D  
 Acq: 26 Jun 2018 03:54

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 91716 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 92.3  | 64.0  | 118.8 |
| 131      | 88.9  | 61.7  | 114.5 |
| 166      | 130.0 | 89.0  | 165.2 |

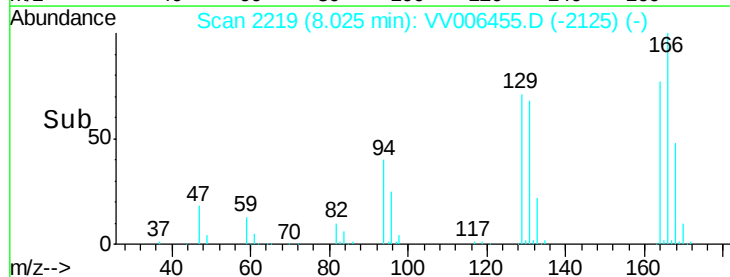
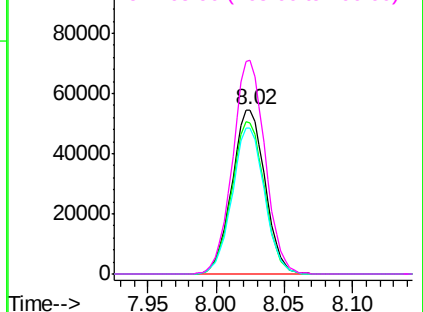


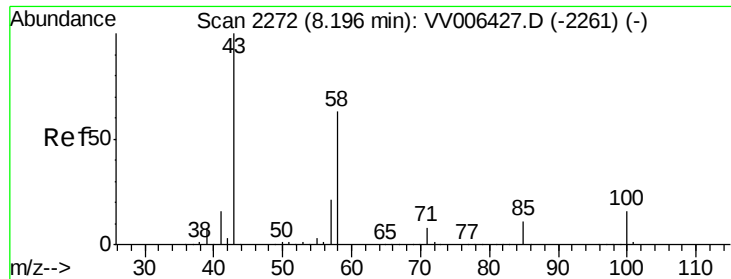
Abundance Ion 163.90 (163.60 to 164.60): VV006455.D (-2125) (-)

Ion 128.95 (128.65 to 129.65): VV006455.D (-2125) (-)

Ion 130.95 (130.65 to 131.65): VV006455.D (-2125) (-)

Ion 165.90 (165.60 to 166.60): VV006455.D (-2125) (-)

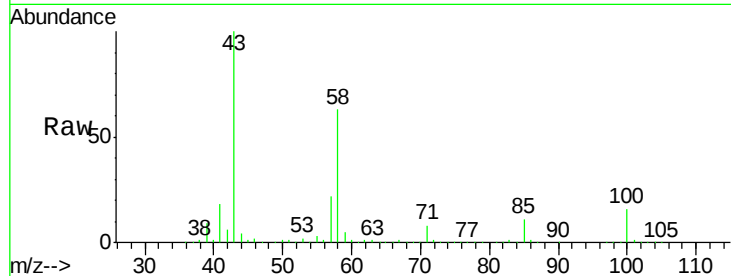




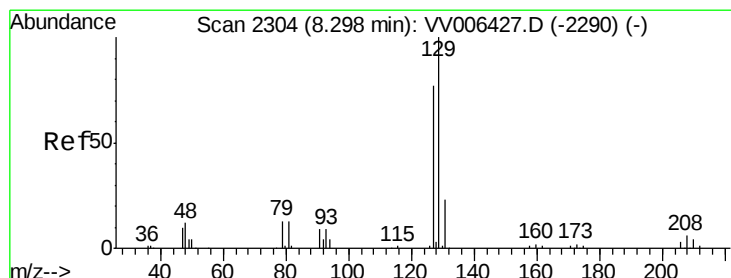
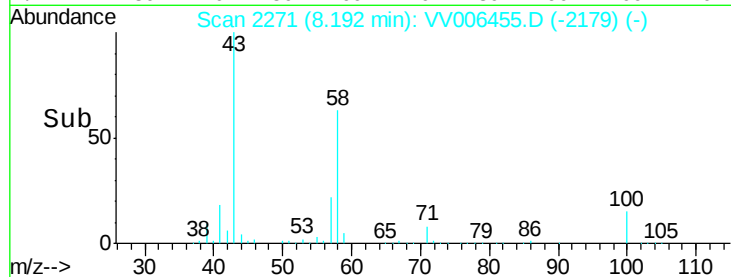
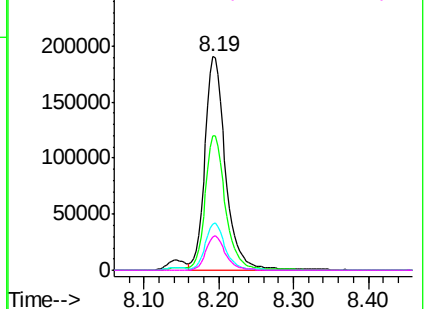
#48  
2-Hexanone  
Concen: 50.45 ug/L  
RT: 8.19 min Scan# 2271  
Delta R.T. -0.00 min  
Lab File: VV006455.D  
Acq: 26 Jun 2018 03:54

Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 43 Resp: 362964  
Ion Ratio Lower Upper  
43 100  
58 61.7 49.9 74.9  
57 21.4 17.3 25.9  
100 15.5 12.5 18.7

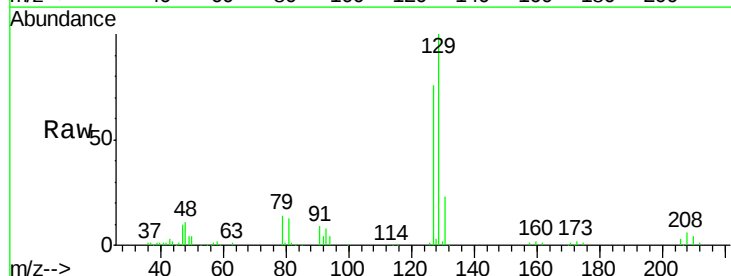


Abundance Ion 43.05 (42.75 to 43.75): VV006427.D (-2261) (-)  
Ion 58.05 (57.75 to 58.75): VV006427.D (-2261) (-)  
Ion 57.20 (56.90 to 57.90): VV006427.D (-2261) (-)  
Ion 100.15 (99.85 to 100.85): VV006427.D (-2261) (-)

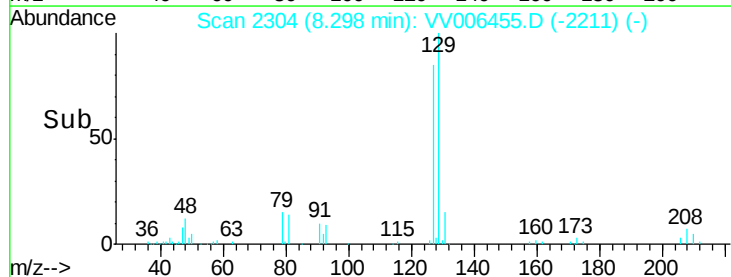
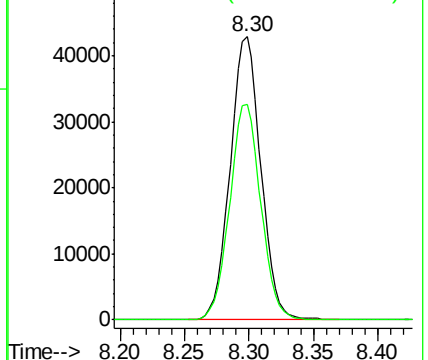


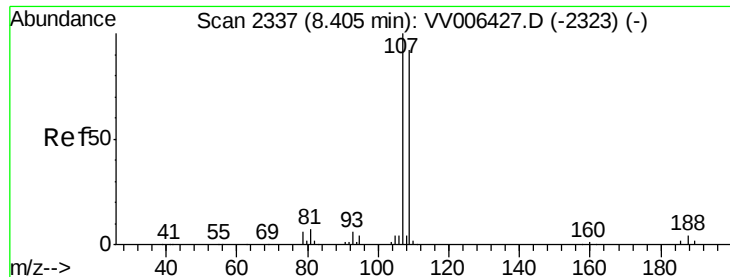
#49  
Dibromochloromethane  
Concen: 4.68 ug/L  
RT: 8.30 min Scan# 2304  
Delta R.T. -0.00 min  
Lab File: VV006455.D  
Acq: 26 Jun 2018 03:54

Tgt Ion: 129 Resp: 70805  
Ion Ratio Lower Upper  
129 100  
127 76.4 54.0 100.2



Abundance Ion 128.95 (128.65 to 129.65): VV006427.D (-2290) (-)  
Ion 126.90 (126.60 to 127.60): VV006427.D (-2290) (-)

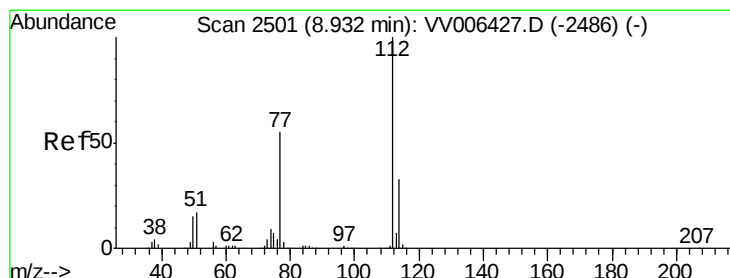
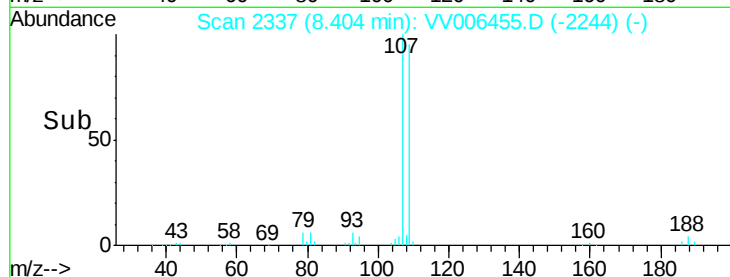
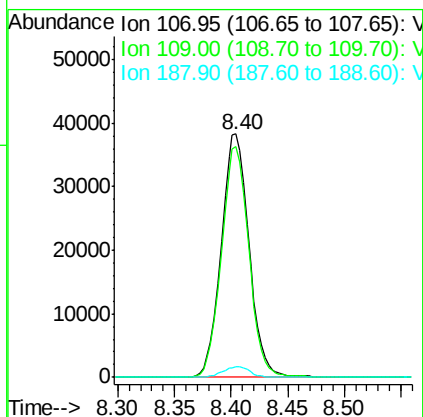
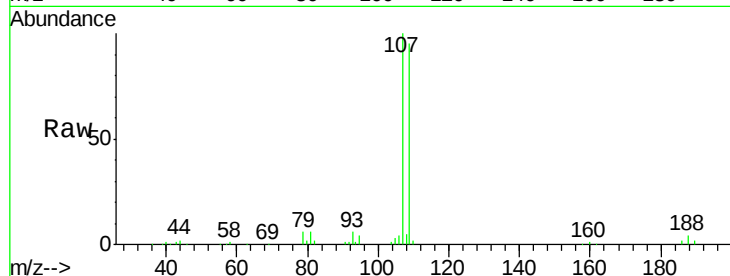




#50  
1,2-Dibromoethane  
Concen: 5.14 ug/L  
RT: 8.40 min Scan# 2337  
Delta R.T. -0.00 min  
Lab File: VV006455.D  
Acq: 26 Jun 2018 03:54

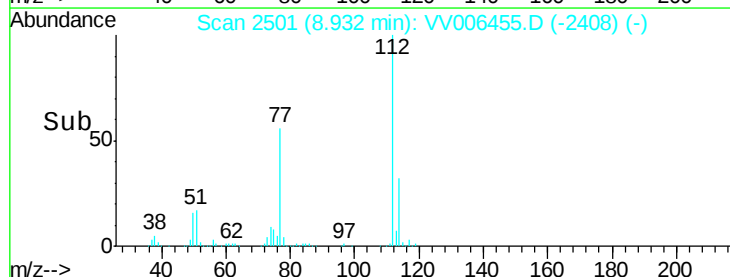
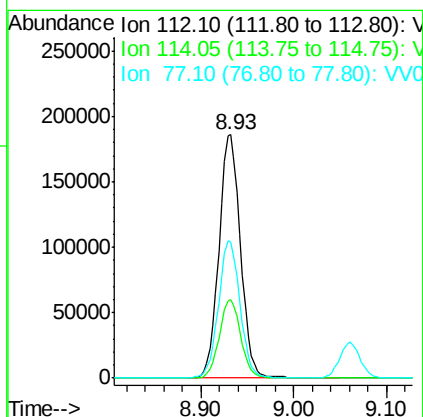
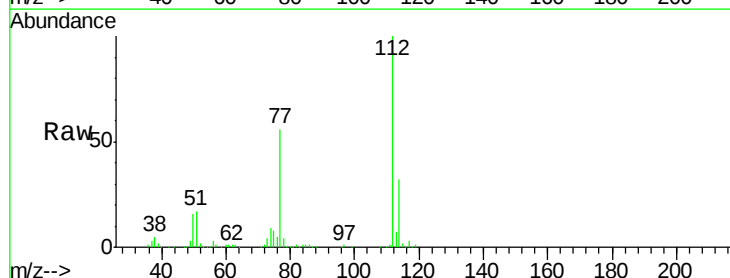
Instrument :  
MSVOA\_V  
ClientSampleId :

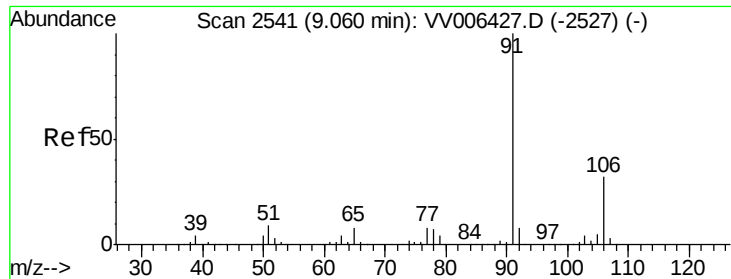
Tot Ion:107 Resp: 65576  
Ion Ratio Lower Upper  
107 100  
109 94.9 64.3 119.5  
188 4.2 3.0 4.6



#51  
Chlorobenzene  
Concen: 5.08 ug/L  
RT: 8.93 min Scan# 2501  
Delta R.T. -0.00 min  
Lab File: VV006455.D  
Acq: 26 Jun 2018 03:54

Tgt Ion:112 Resp: 299445  
Ion Ratio Lower Upper  
112 100  
114 32.3 22.8 42.4  
77 56.0 44.6 66.8





#52

Ethylbenzene

Concen: 5.13 ug/L

RT: 9.06 min Scan# 2541

Delta R.T. -0.00 min

Lab File: VV006455.D

Acq: 26 Jun 2018 03:54

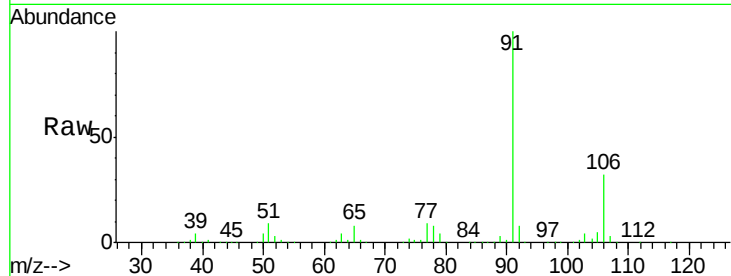
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 91 Resp: 494857

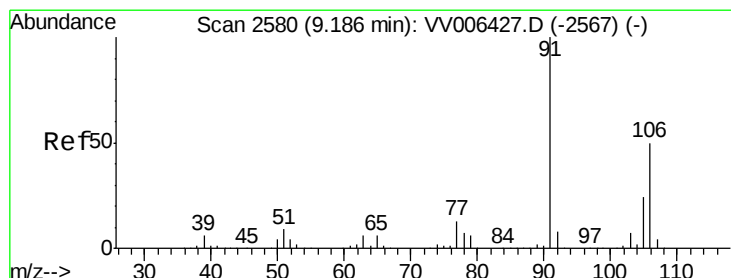
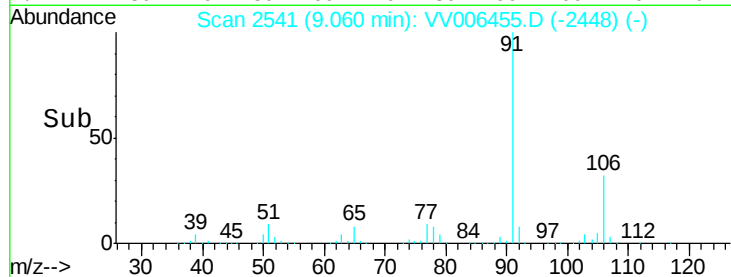
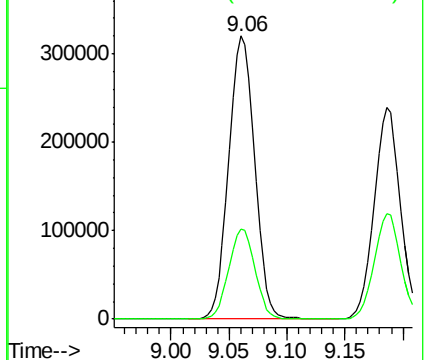
Ion Ratio Lower Upper

91 100

106 32.0 22.2 41.2



Abundance Ion 91.15 (90.85 to 91.85): VV006455.D (-2448) (-)



#53

m,p-xylene

Concen: 5.16 ug/L

RT: 9.19 min Scan# 2580

Delta R.T. -0.00 min

Lab File: VV006455.D

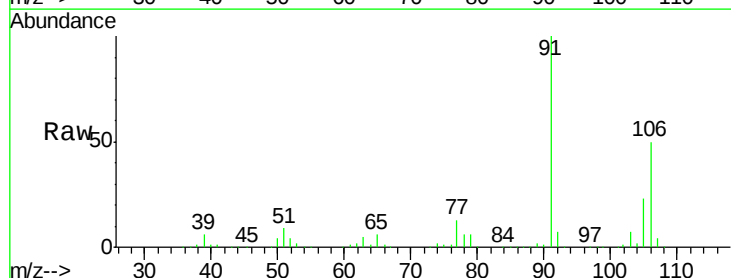
Acq: 26 Jun 2018 03:54

Tgt Ion: 106 Resp: 191991

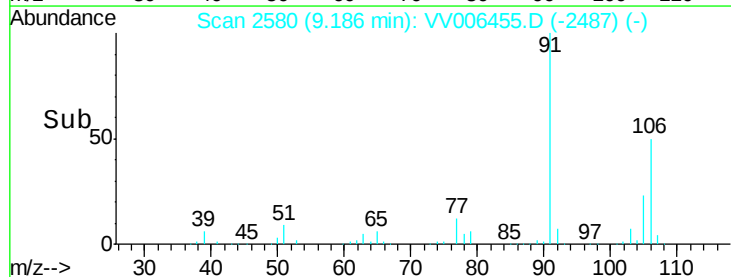
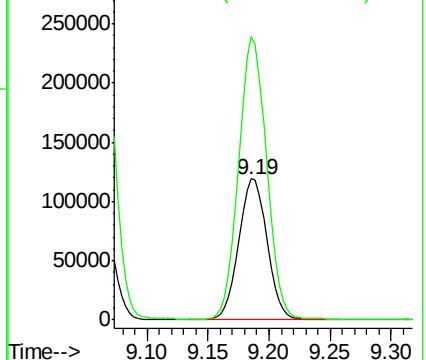
Ion Ratio Lower Upper

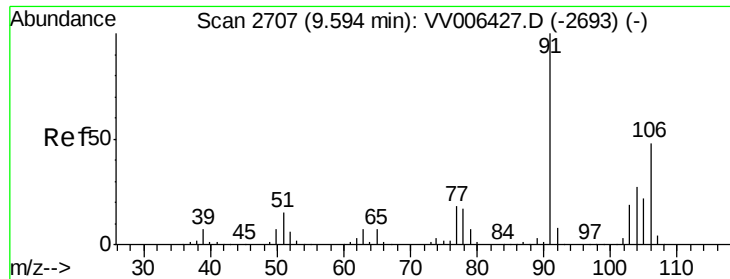
106 100

91 200.4 138.8 257.8



Abundance Ion 106.15 (105.85 to 106.85): VV006455.D (-2487) (-)





#54

o-xylene

Concen: 5.13 ug/L

RT: 9.59 min Scan# 2707

Delta R.T. -0.00 min

Lab File: VV006455.D

Acq: 26 Jun 2018 03:54

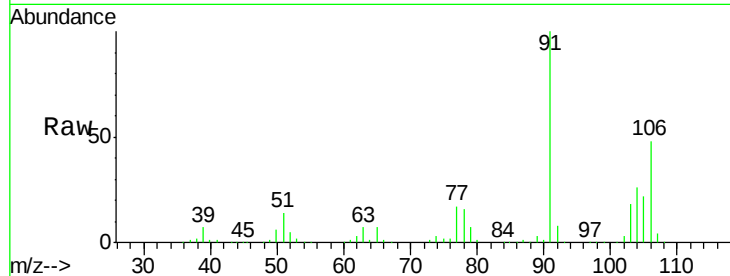
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion:106 Resp: 187228

Ion Ratio Lower Upper

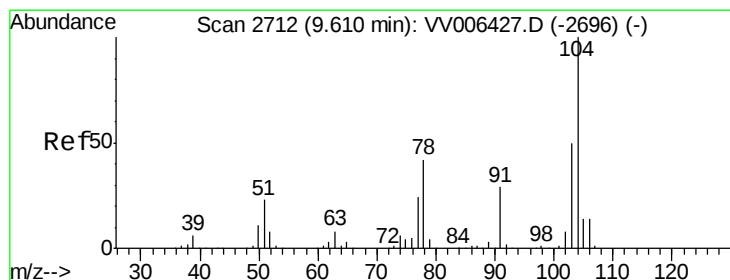
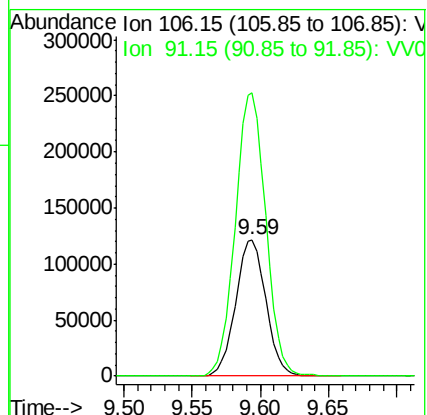
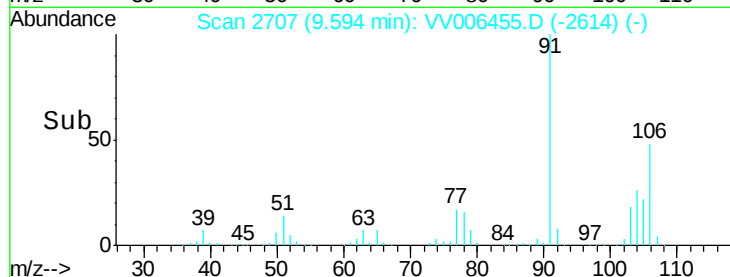
106 100

91 207.8 145.7 270.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 5.25 ug/L

RT: 9.61 min Scan# 2712

Delta R.T. -0.00 min

Lab File: VV006455.D

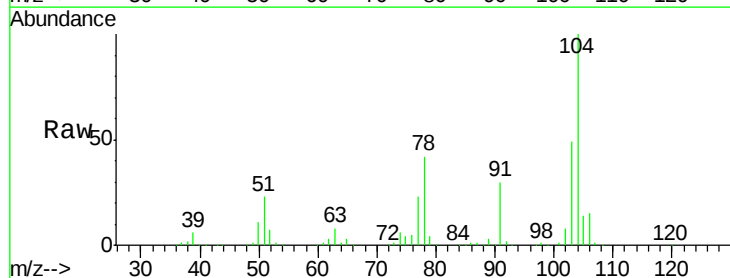
Acq: 26 Jun 2018 03:54

Tgt Ion:104 Resp: 313496

Ion Ratio Lower Upper

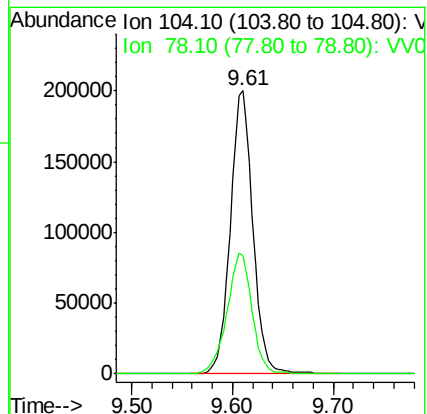
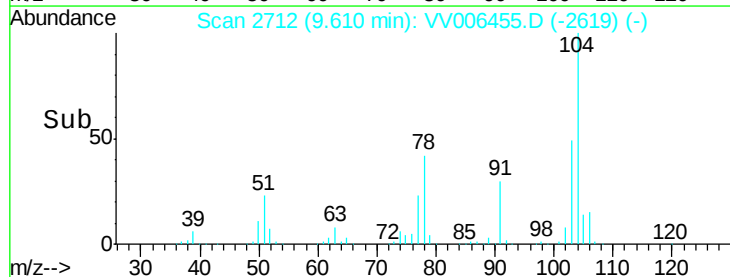
104 100

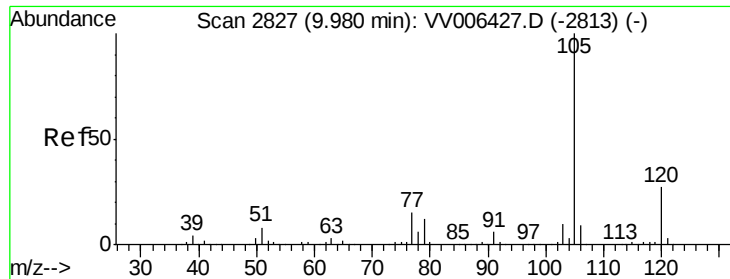
78 42.0 29.1 54.1



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 5.18 ug/L

RT: 9.98 min Scan# 2827

Delta R.T. -0.00 min

Lab File: VV006455.D

Acq: 26 Jun 2018 03:54

Instrument :

MSVOA\_V

ClientSampleId :

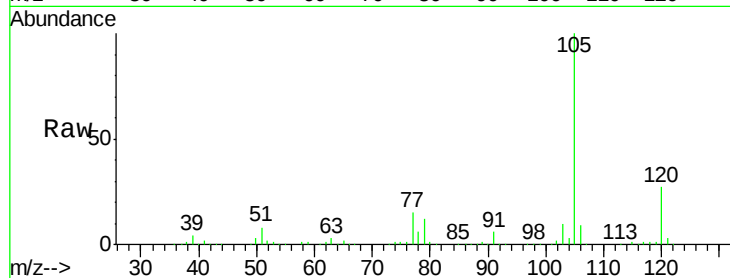
Tot Ion:105 Resp: 492271

Ion Ratio Lower Upper

105 100

120 26.7 21.7 32.5

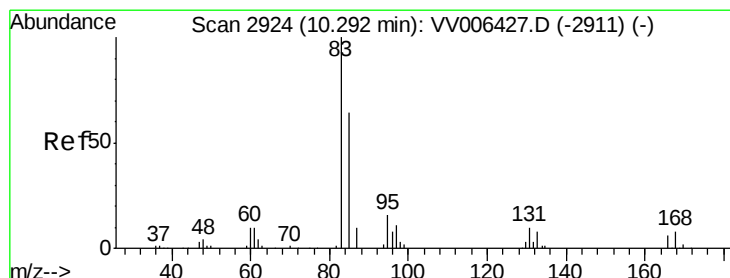
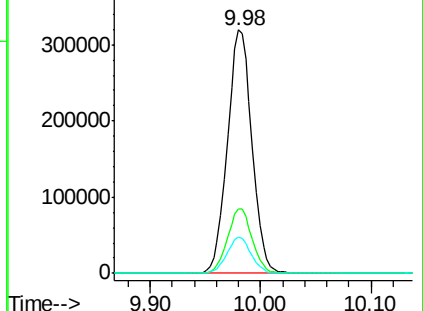
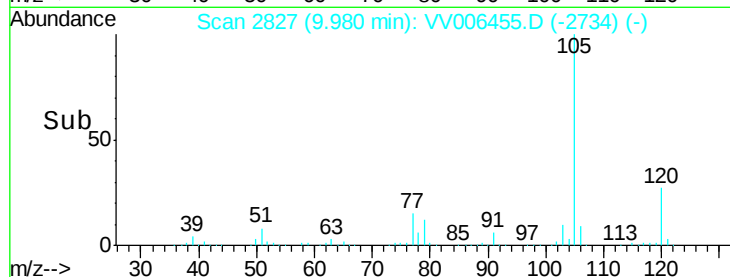
77 14.7 11.8 17.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.03 ug/L

RT: 10.29 min Scan# 2925

Delta R.T. 0.00 min

Lab File: VV006455.D

Acq: 26 Jun 2018 03:54

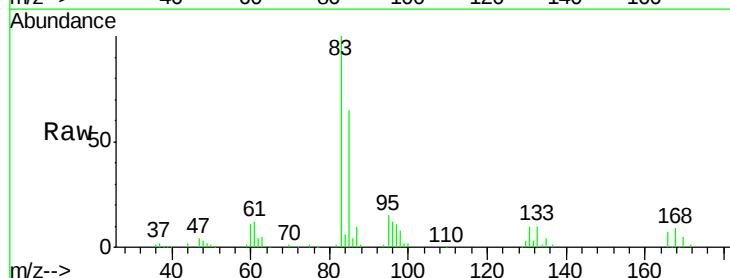
Tgt Ion: 83 Resp: 67398

Ion Ratio Lower Upper

83 100

85 64.5 44.8 83.2

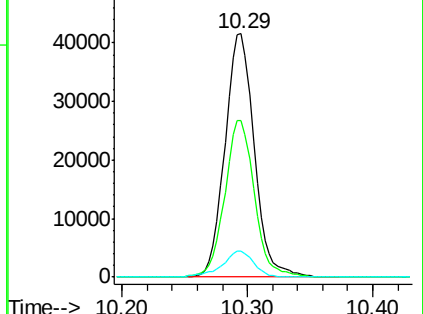
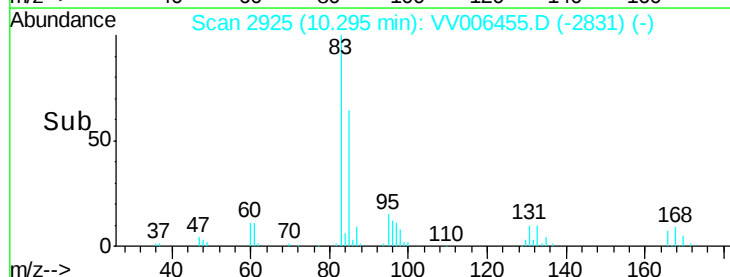
131 10.5 7.9 11.9

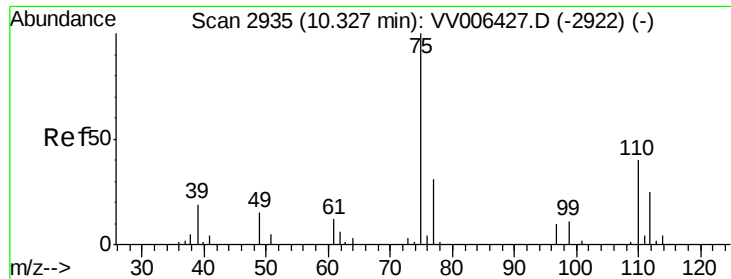


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.01 ug/L

RT: 10.33 min Scan# 2935

Delta R.T. -0.00 min

Lab File: VV006455.D

Acq: 26 Jun 2018 03:54

Instrument :

MSVOA\_V

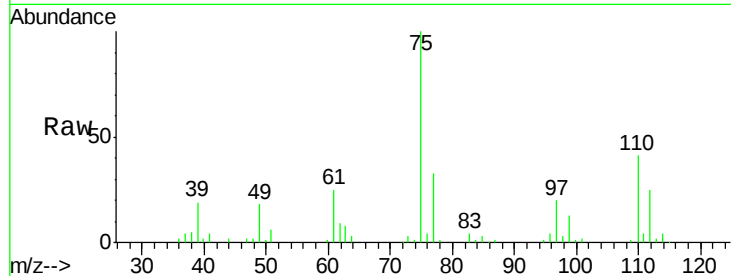
ClientSampleId :

Tot Ion: 75 Resp: 55987

Ion Ratio Lower Upper

75 100

77 32.9 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VV006427.D (-2922) (-)

Ion 77.00 (76.70 to 77.70): VV006427.D (-2922) (-)

10.33

40000

30000

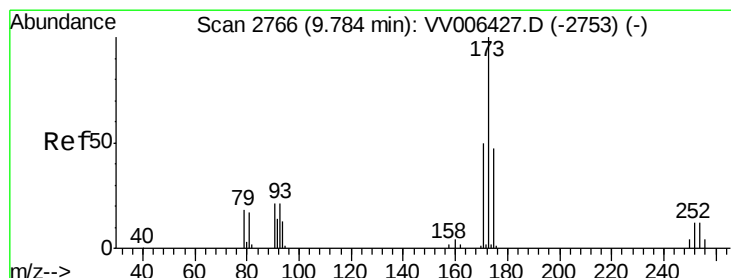
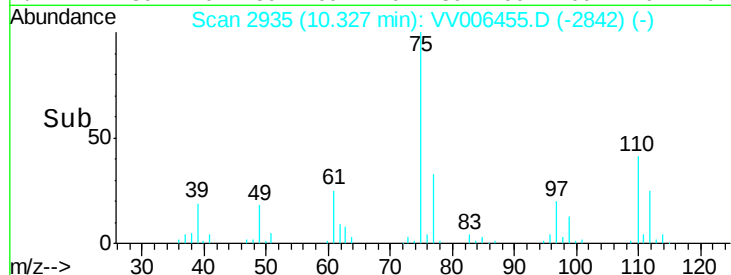
20000

10000

0

Time-->

10.25 10.30 10.35 10.40



#61

Bromoform

Concen: 4.38 ug/L

RT: 9.78 min Scan# 2766

Delta R.T. -0.00 min

Lab File: VV006455.D

Acq: 26 Jun 2018 03:54

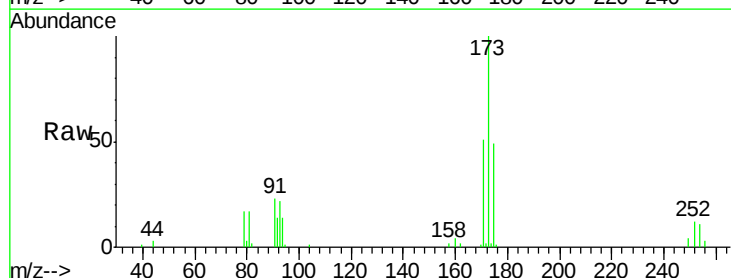
Tgt Ion: 173 Resp: 33418

Ion Ratio Lower Upper

173 100

175 48.6 38.8 58.2

254 11.6 9.0 13.6



Abundance Ion 172.90 (172.60 to 173.60): VV006427.D (-2753) (-)

Ion 174.90 (174.60 to 175.60): VV006427.D (-2753) (-)

Ion 253.75 (253.45 to 254.45): VV006427.D (-2753) (-)

9.78

25000

20000

15000

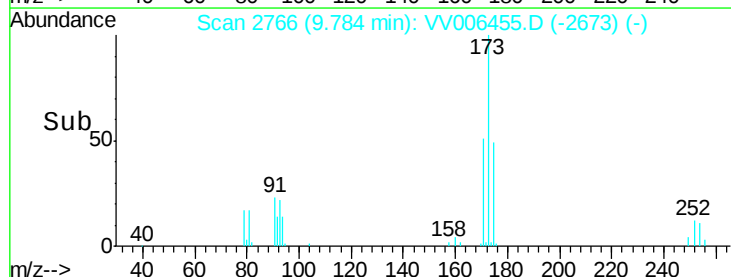
10000

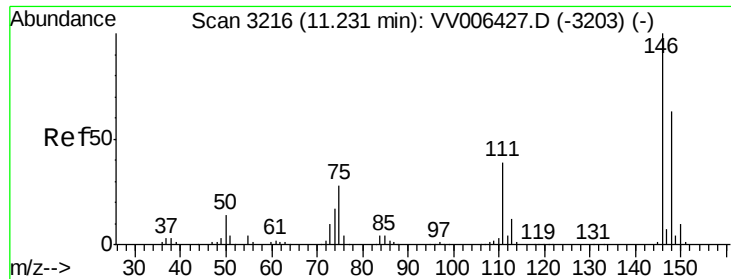
5000

0

Time-->

9.75 9.80 9.85





#62

1,3-Dichlorobenzene

Concen: 5.07 ug/L

RT: 11.23 min Scan# 3217

Delta R.T. 0.00 min

Lab File: VV006455.D

Acq: 26 Jun 2018 03:54

Instrument :

MSVOA\_V

ClientSampleId :

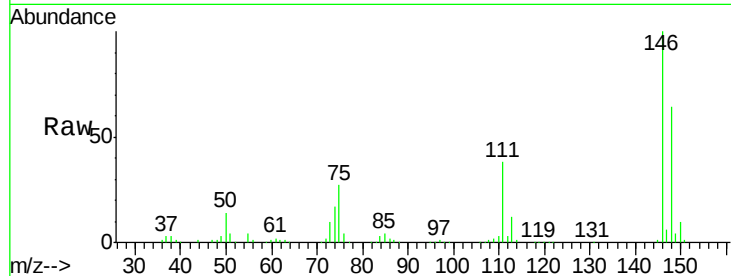
Tot Ion:146 Resp: 227020

Ion Ratio Lower Upper

146 100

111 37.9 27.4 51.0

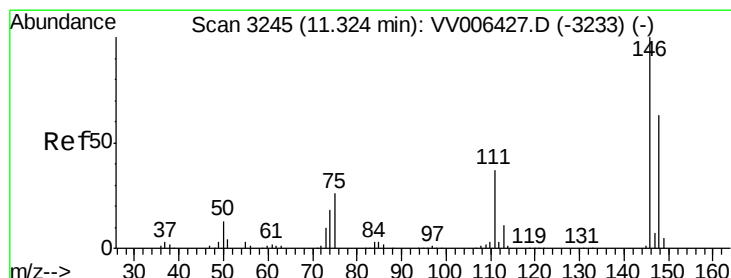
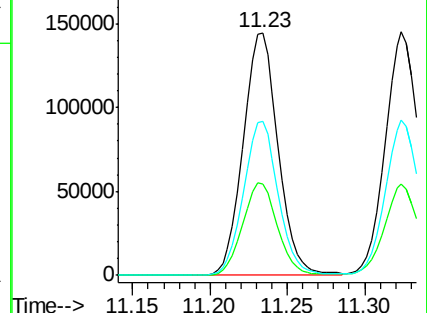
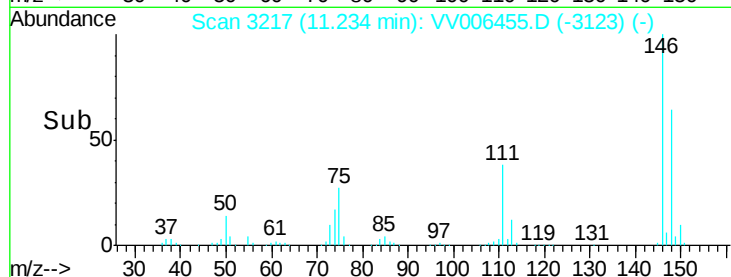
148 63.7 44.1 81.9



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



#63

1,4-Dichlorobenzene

Concen: 5.08 ug/L

RT: 11.32 min Scan# 3245

Delta R.T. -0.00 min

Lab File: VV006455.D

Acq: 26 Jun 2018 03:54

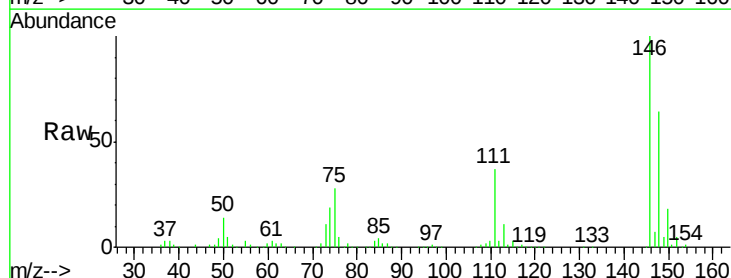
Tgt Ion:146 Resp: 227364

Ion Ratio Lower Upper

146 100

111 37.5 26.3 48.9

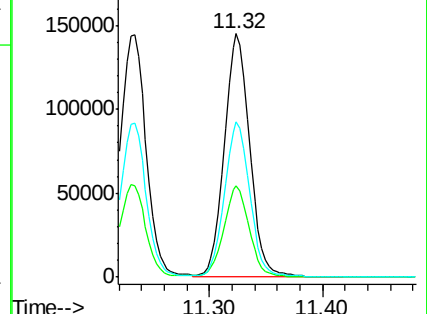
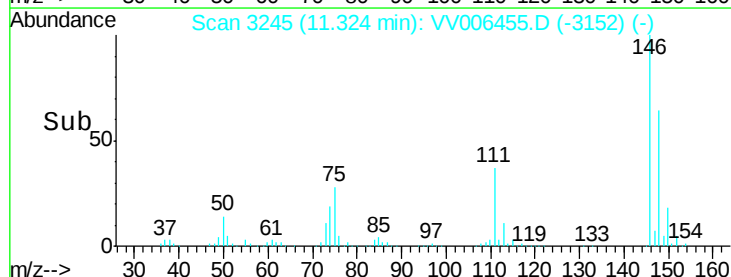
148 63.7 44.0 81.6

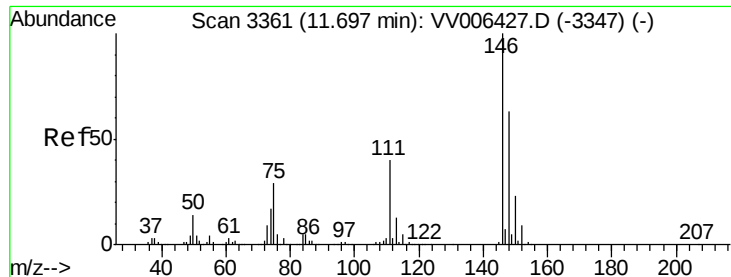


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.14 ug/L

RT: 11.70 min Scan# 3361

Delta R.T. -0.00 min

Lab File: VV006455.D

Acq: 26 Jun 2018 03:54

Instrument :

MSVOA\_V

ClientSampleId :

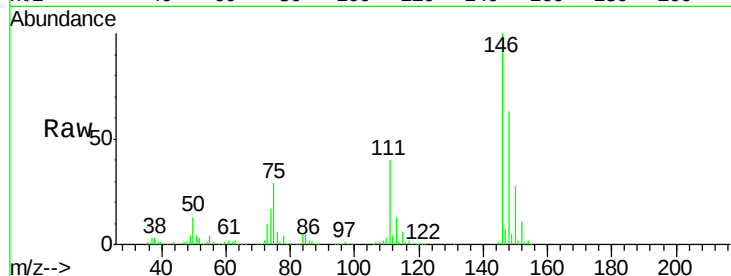
Tot Ion:146 Resp: 215213

Ion Ratio Lower Upper

146 100

111 40.4 32.0 48.0

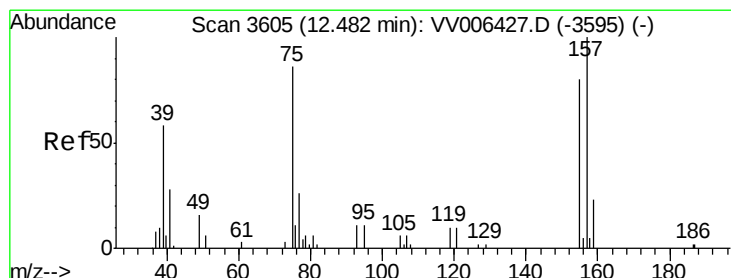
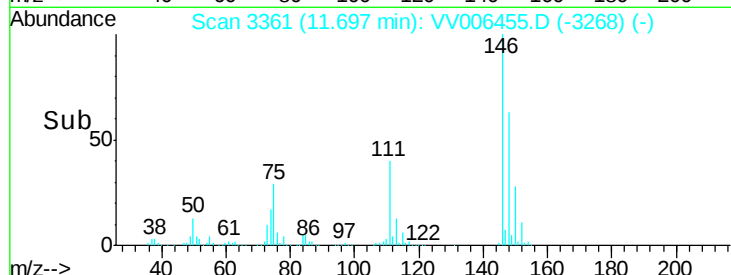
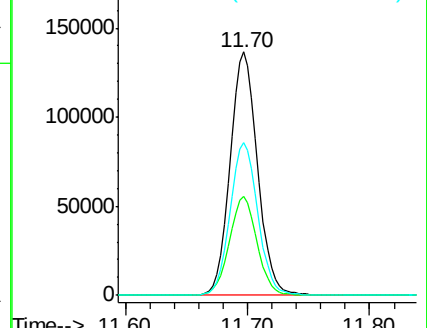
148 62.7 50.8 76.2



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: 4.21 ug/L

RT: 12.48 min Scan# 3606

Delta R.T. 0.00 min

Lab File: VV006455.D

Acq: 26 Jun 2018 03:54

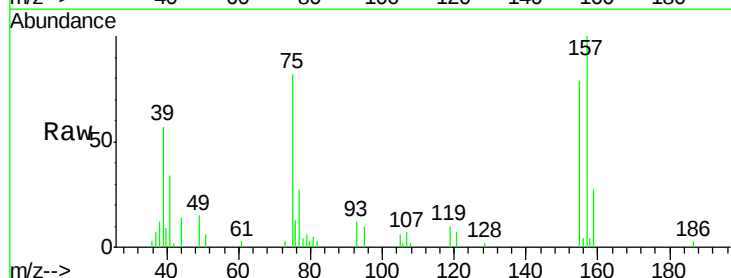
Tgt Ion: 75 Resp: 7496

Ion Ratio Lower Upper

75 100

155 96.6 73.9 110.9

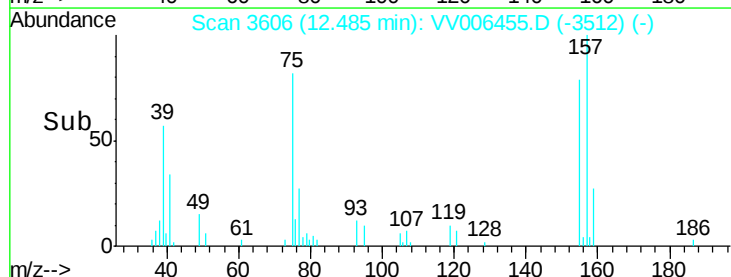
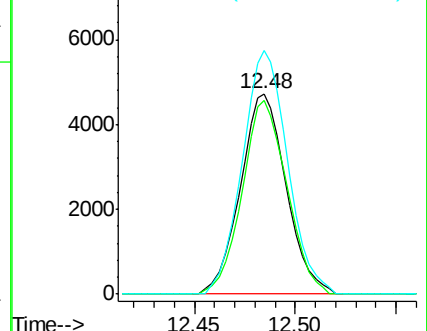
157 121.6 92.9 139.3

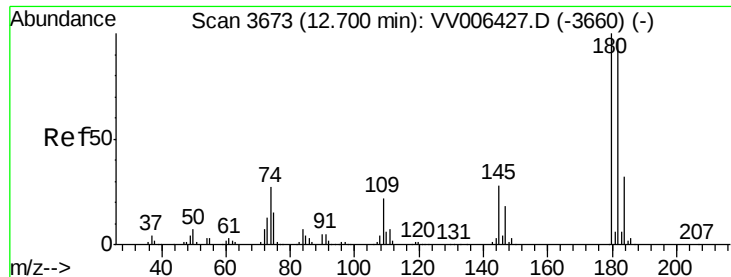


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

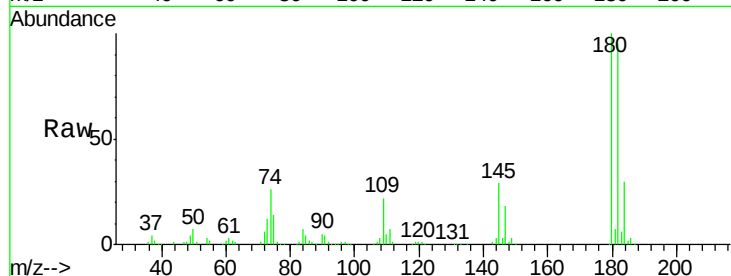




#67  
 1,3,5-Trichlorobenzene  
 Concen: 4.98 ug/L  
 RT: 12.70 min Scan# 3673  
 Delta R.T. -0.00 min  
 Lab File: VV006455.D  
 Acq: 26 Jun 2018 03:54

Instrument :  
 MSVOA\_V  
 ClientSampleId :

| Tot Ion   | 180   | Resp  | 169453 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 95.5  | 76.6  | 115.0  |
| 184       | 30.5  | 24.5  | 36.7   |
| 145       | 28.8  | 22.6  | 34.0   |

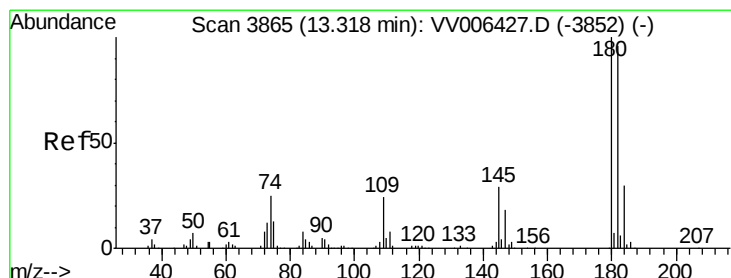
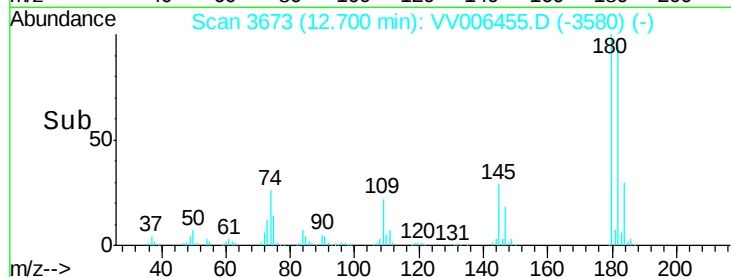
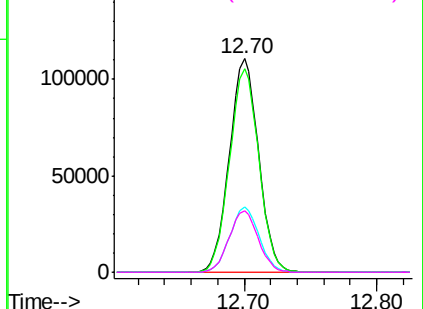


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

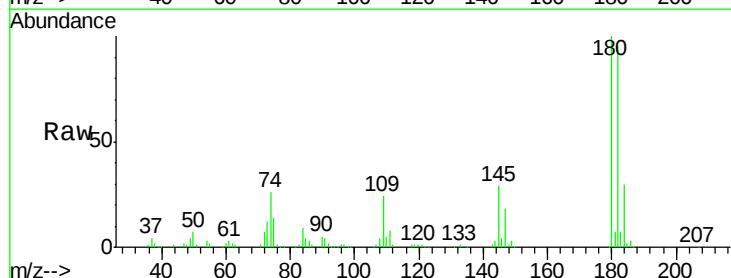
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68  
 1,2,4-trichlorobenzene  
 Concen: 5.09 ug/L  
 RT: 13.32 min Scan# 3865  
 Delta R.T. -0.00 min  
 Lab File: VV006455.D  
 Acq: 26 Jun 2018 03:54

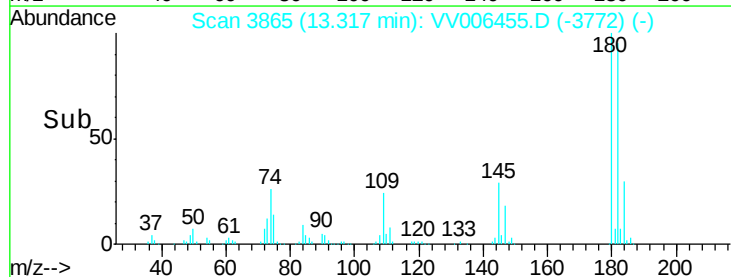
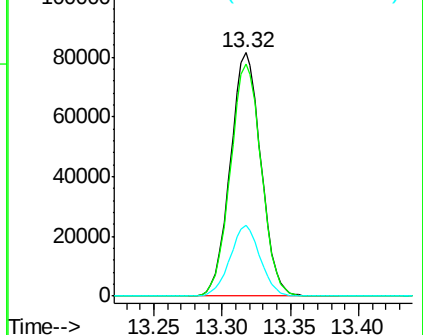
| Tgt Ion   | 180   | Resp  | 126896 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 96.1  | 76.7  | 115.1  |
| 145       | 28.5  | 23.0  | 34.6   |

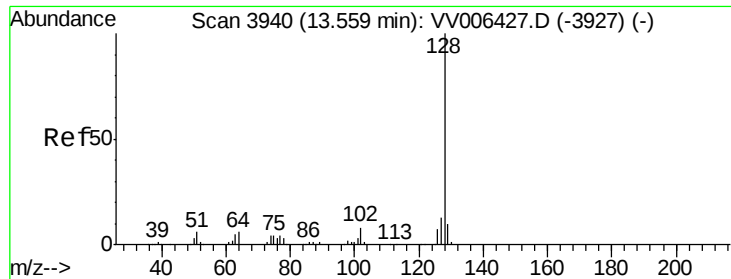


Abundance Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 5.05 ug/L

RT: 13.56 min Scan# 3940

Delta R.T. -0.00 min

Lab File: VV006455.D

Acq: 26 Jun 2018 03:54

Instrument :

MSVOA\_V

ClientSampled :

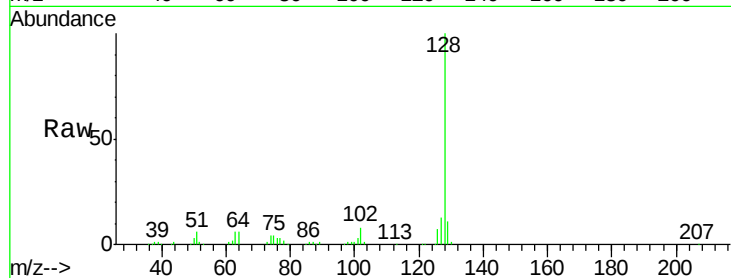
Tot Ion:128 Resp: 184238

Ion Ratio Lower Upper

128 100

129 10.6 8.6 13.0

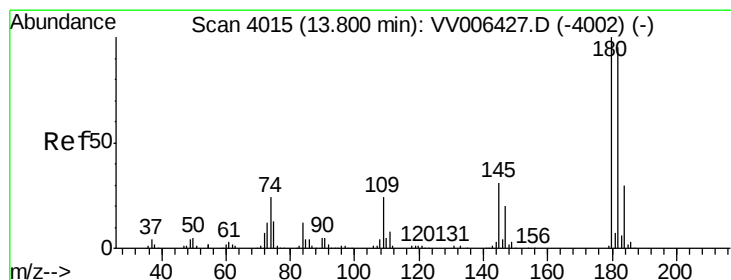
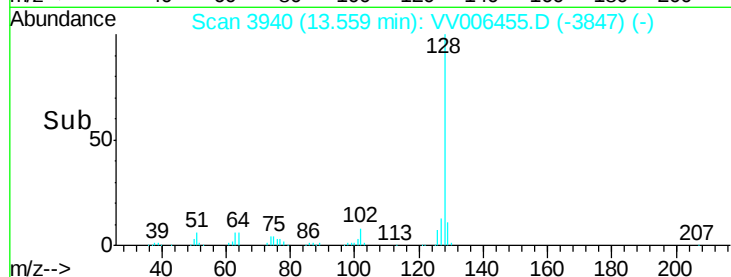
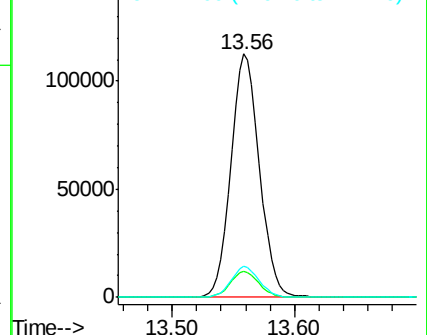
127 12.5 10.2 15.4



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.21 ug/L

RT: 13.80 min Scan# 4015

Delta R.T. -0.00 min

Lab File: VV006455.D

Acq: 26 Jun 2018 03:54

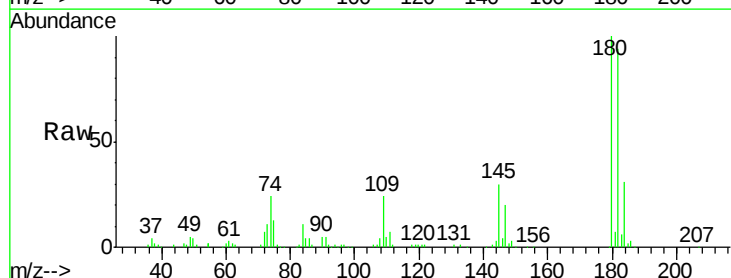
Tgt Ion:180 Resp: 121103

Ion Ratio Lower Upper

180 100

182 94.3 76.0 114.0

145 30.4 24.8 37.2



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

