

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052720\  
 Data File : VV016240.D  
 Acq On : 27 May 2020 20:06  
 Operator : SY/MD  
 Sample : L2755-15MS  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: May 28 01:26:53 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR052620WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu May 28 01:17:22 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 85618    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 83192    | 5.00 | ug/L  | 0.00     |
| 61) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 36582    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 25386    | 4.62     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 92.40%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 23699    | 4.91     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 98.20%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 49910    | 4.83     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 96.60%  |
| 20) 2-Butanone-d5              | 3.94   | 46    | 73627    | 53.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 107.96% |
| 24) Chloroform-d               | 4.38   | 84    | 53341    | 4.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 29296    | 5.06     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 101.20% |
| 32) Benzene-d6                 | 5.08   | 84    | 102536   | 4.98     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 99.60%  |
| 36) 1,2-Dichloropropane-d6     | 6.10   | 67    | 32722    | 5.13     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 102.60% |
| 41) Toluene-d8                 | 7.34   | 98    | 91231    | 4.64     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 92.80%  |
| 45) trans-1,3-Dichloropropene- | 7.65   | 79    | 10928    | 4.60     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 92.00%  |
| 48) 2-Hexanone-d5              | 8.12   | 63    | 53056    | 48.68    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 97.36%  |
| 59) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 22970    | 4.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 97.40%  |
| 65) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 32336    | 5.29     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 105.80% |

## Target Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|-------------------------------|-------|------|----------|-------|--------|--------|
| 8) Chloroethane               | 1.60  | 64   | 1698     | 0.405 | ug/L # | 42     |
| 12) 1,1-Dichloroethene        | 2.14  | 96   | 23717    | 4.696 | ug/L # | 82     |
| 13) Acetone                   | 2.21  | 43   | 1540     | 1.824 | ug/L   | 80     |
| 27) 1,2-Dichloroethane        | 5.13  | 62   | 1204     | 0.166 | ug/L # | 79     |
| 33) Benzene                   | 5.13  | 78   | 120102   | 5.017 | ug/L   | 100    |
| 34) Trichloroethene           | 5.94  | 95   | 30557    | 4.900 | ug/L   | 99     |
| 35) Methylcyclohexane         | 6.09  | 83   | 7811     | 0.743 | ug/L # | 16     |
| 37) 1,2-Dichloropropane       | 6.10  | 63   | 3810     | 0.649 | ug/L # | 88     |
| 39) cis-1,3-Dichloropropene   | 7.01  | 75   | 804      | 0.097 | ug/L # | 73     |
| 42) Toluene                   | 7.41  | 91   | 124746   | 4.778 | ug/L   | 99     |
| 46) trans-1,3-Dichloropropene | 7.65  | 75   | 439      | 0.064 | ug/L # | 58     |
| 49) Tetrachloroethene         | 8.00  | 164  | 3510     | 0.784 | ug/L   | 98     |
| 50) 2-Hexanone                | 8.12  | 43   | 7406     | 2.907 | ug/L # | 74     |
| 51) Dibromochloromethane      | 8.00  | 129  | 3520     | 0.861 | ug/L # | 10     |
| 53) Chlorobenzene             | 8.90  | 112  | 82910    | 5.139 | ug/L   | 99     |
| 70) Naphthalene               | 13.53 | 128  | 1722     | 0.114 | ug/L # | 88     |

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ALS Vial : 27 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

Quant Time: May 28 01:26:53 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR052620WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu May 28 01:17:22 2020  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

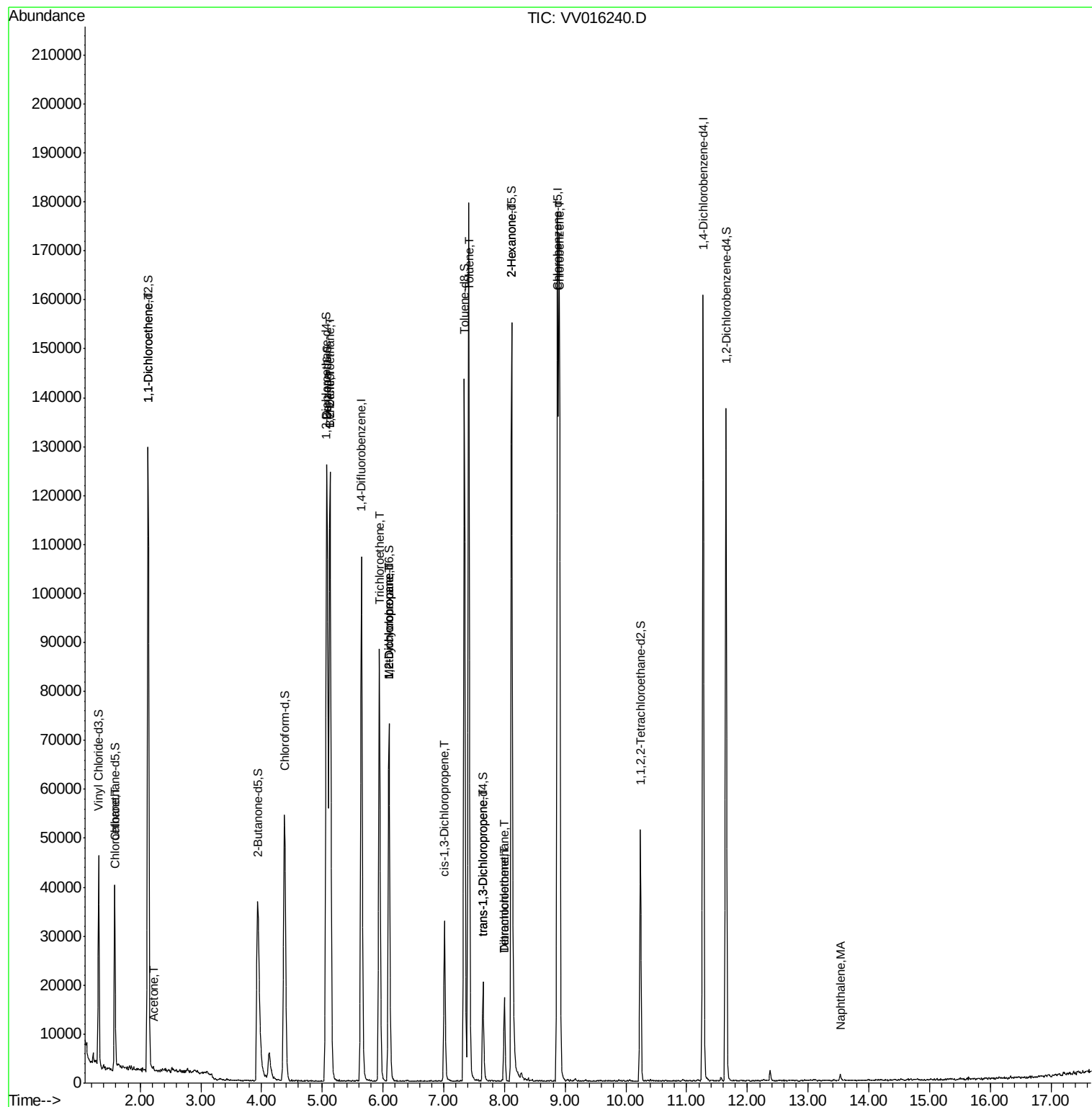
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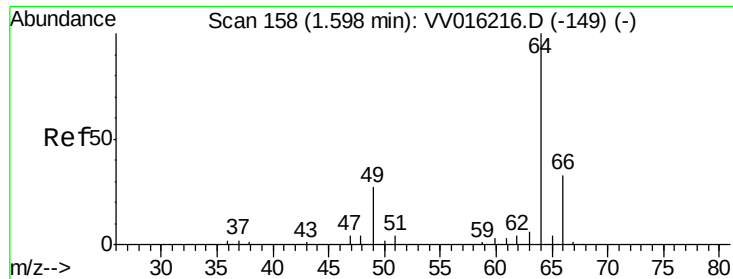
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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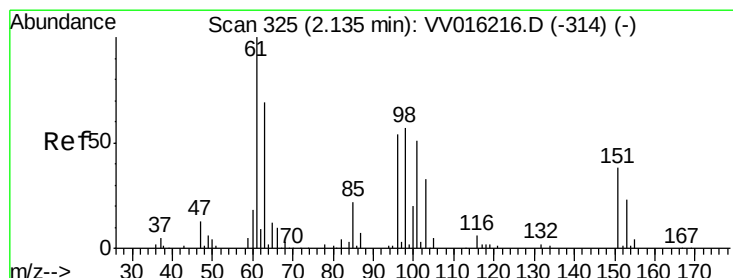
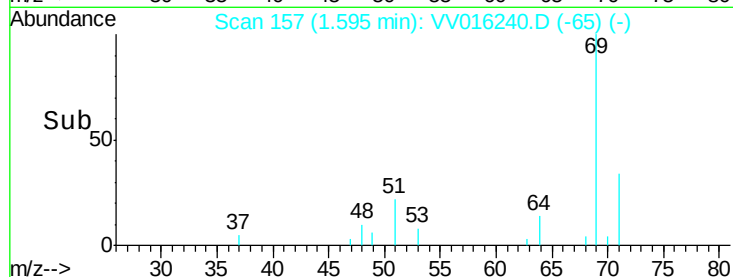
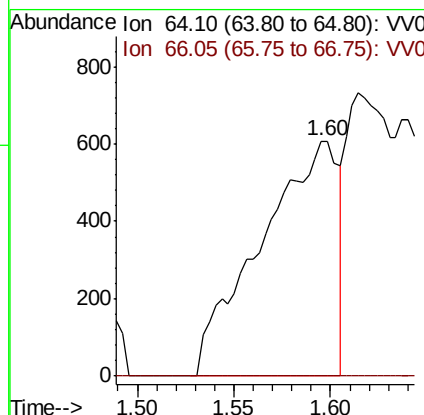
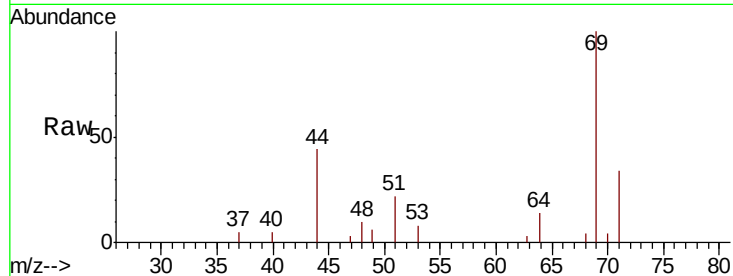




#8  
 Chloroethane  
 Concen: 0.405 ug/L  
 RT: 1.60 min Scan# 157  
 Delta R.T. -0.00 min  
 Lab File: VV016240.D  
 Acq: 27 May 2020 20:06

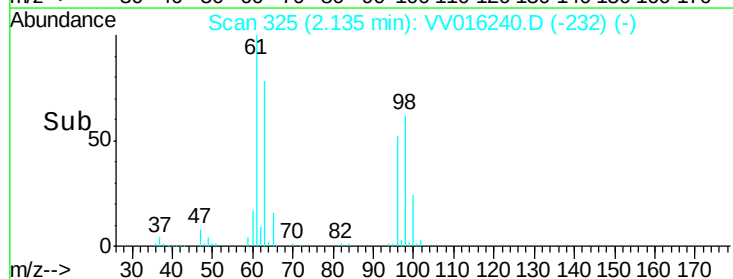
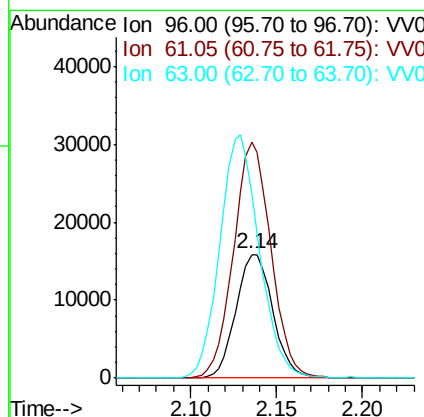
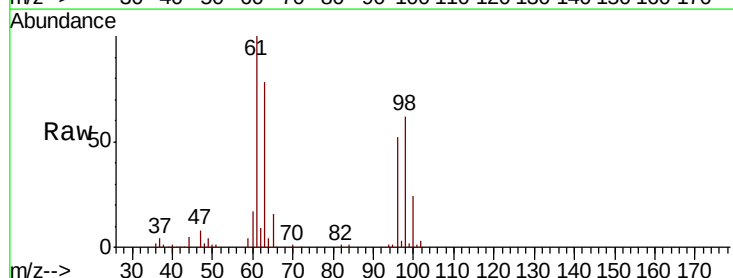
Instrument :  
 MSVOA\_V  
 ClientSampleId :

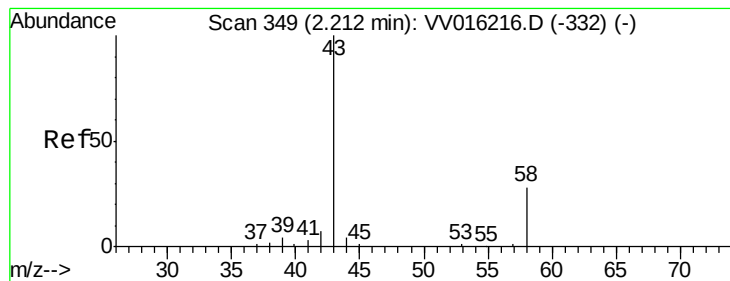
Tot Ion: 64 Resp: 1698  
 Ion Ratio Lower Upper  
 64 100  
 66 0.0 22.9 42.5#



#12  
 1,1-Dichloroethene  
 Concen: 4.696 ug/L  
 RT: 2.14 min Scan# 325  
 Delta R.T. 0.00 min  
 Lab File: VV016240.D  
 Acq: 27 May 2020 20:06

Tgt Ion: 96 Resp: 23717  
 Ion Ratio Lower Upper  
 96 100  
 61 190.8 124.9 231.9  
 63 149.7 80.4 149.2#





#13

Acetone

Concen: 1.824 ug/L

RT: 2.21 min Scan# 348

Delta R.T. -0.00 min

Lab File: VV016240.D

Acq: 27 May 2020 20:06

Instrument :

MSVOA\_V

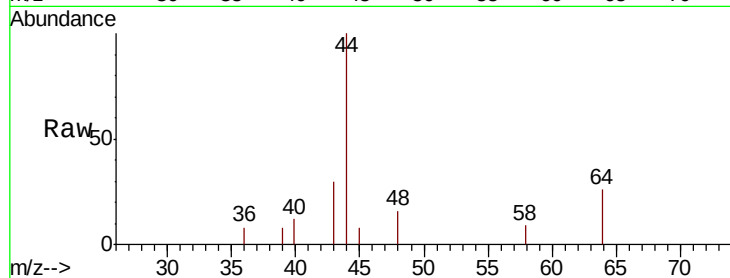
ClientSampleId :

Tot Ion: 43 Resp: 1540

Ion Ratio Lower Upper

43 100

58 14.5 0.0 48.8



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

2.21

400

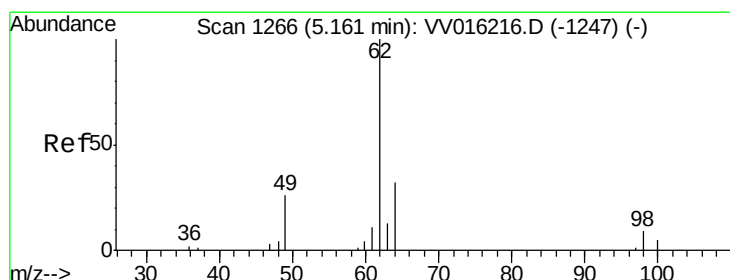
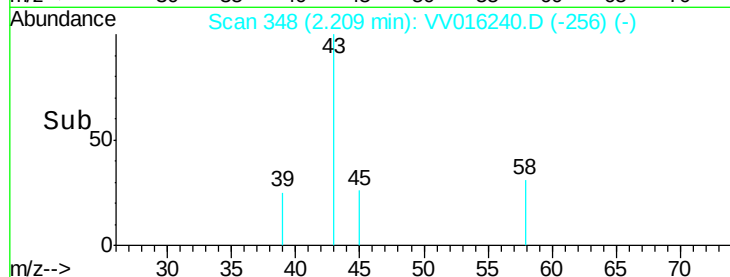
300

200

100

0

Time--> 2.10 2.15 2.20 2.25 2.30



#27

1,2-Dichloroethane

Concen: 0.166 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. -0.03 min

Lab File: VV016240.D

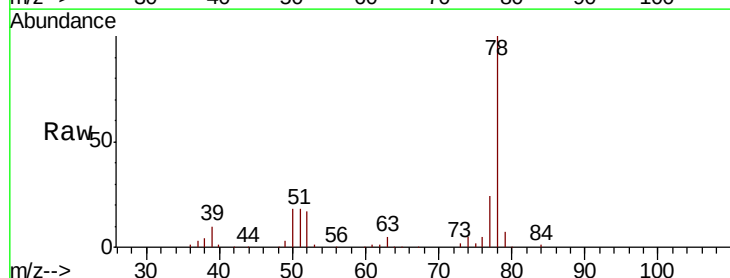
Acq: 27 May 2020 20:06

Tgt Ion: 62 Resp: 1204

Ion Ratio Lower Upper

62 100

98 0.0 5.7 8.5#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 98.05 (97.75 to 98.75): VV0

5.13

600

500

400

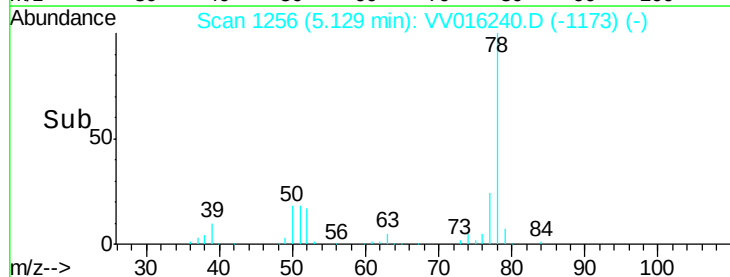
300

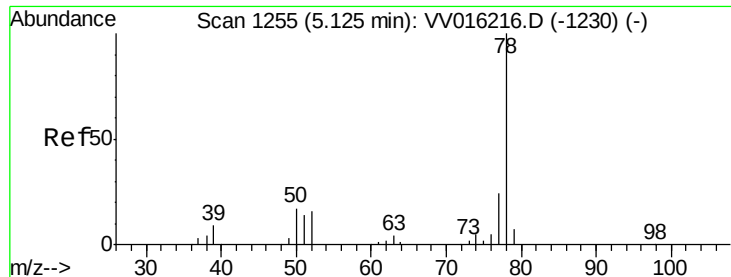
200

100

0

Time--> 5.10 5.15





#33

Benzene

Concen: 5.017 ug/L

RT: 5.13 min Scan# 1255

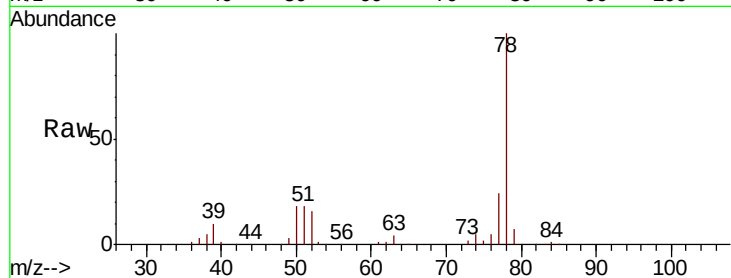
Delta R.T. 0.00 min

Lab File: VV016240.D

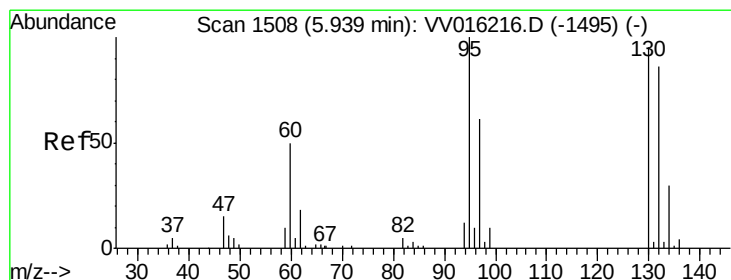
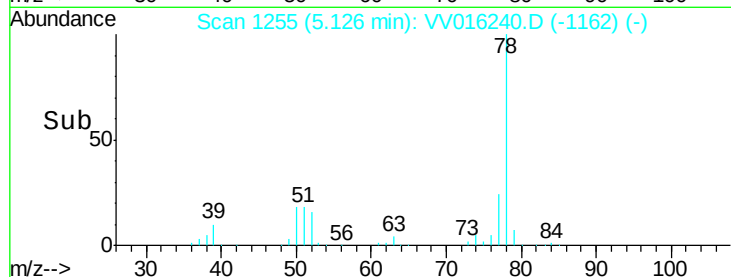
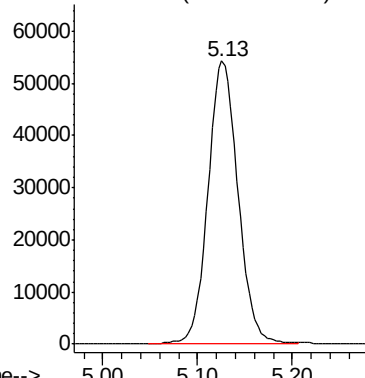
Acq: 27 May 2020 20:06

Instrument :  
MSVOA\_V  
ClientSampled :

Tgt Ion: 78 Resp: 120102



Abundance Ion 78.10 (77.80 to 78.80): VV0



#34

Trichloroethene

Concen: 4.900 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VV016240.D

Acq: 27 May 2020 20:06

Tgt Ion: 95 Resp: 30557

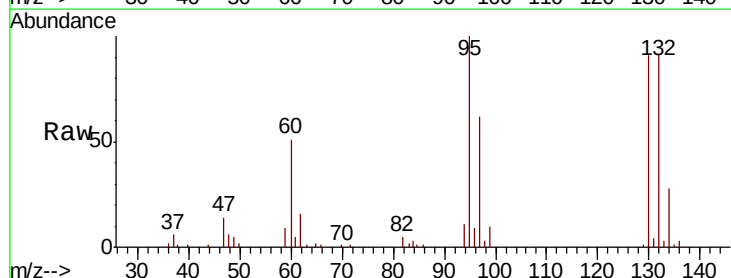
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 62.5  | 43.6  | 81.0  |
| 132 | 91.5  | 63.9  | 118.7 |
| 130 | 90.6  | 65.2  | 121.0 |

95 100

97 62.5 43.6 81.0

132 91.5 63.9 118.7

130 90.6 65.2 121.0



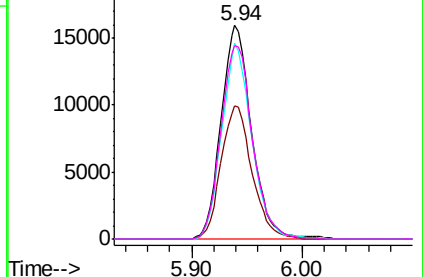
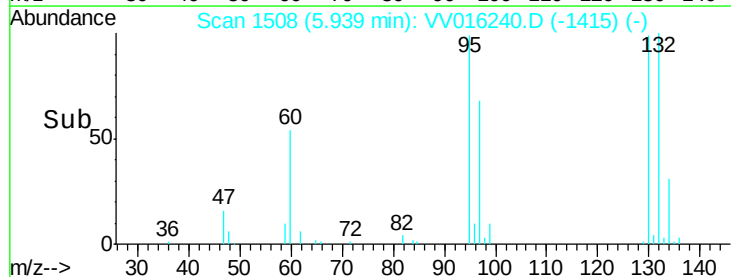
Abundance Ion 95.00 (94.70 to 95.70): VV0

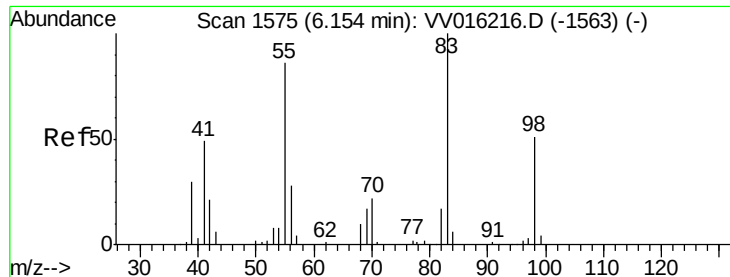
Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0

5.94

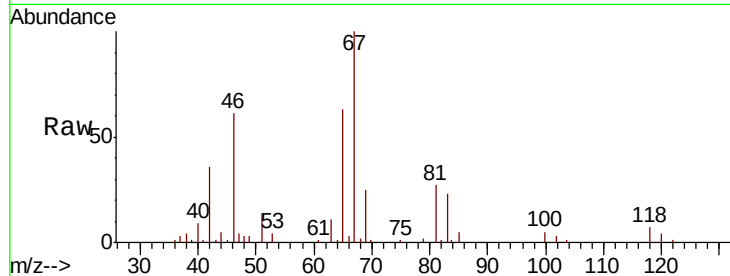




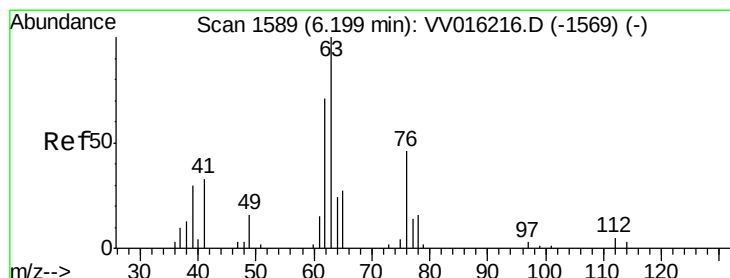
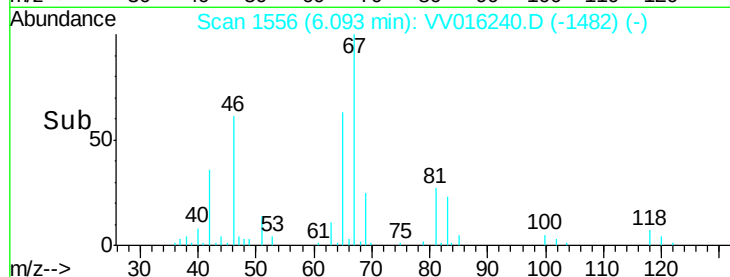
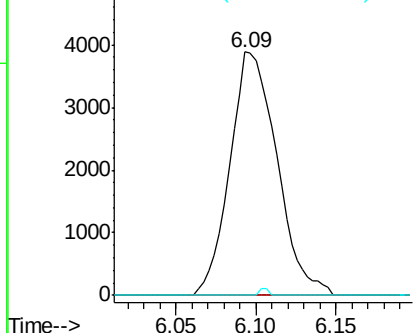
#35  
Methylvlcyclohexane  
Concen: 0.743 ug/L  
RT: 6.09 min Scan# 1556  
Delta R.T. -0.06 min  
Lab File: VV016240.D  
Acq: 27 May 2020 20:06

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 83 Resp: 7811  
Ion Ratio Lower Upper  
83 100  
55 0.0 65.4 98.0#  
98 0.5 39.3 58.9#

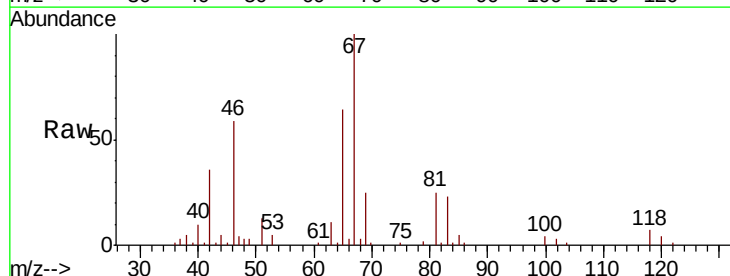


Abundance Ion 83.15 (82.85 to 83.85): VV0  
Ion 55.10 (54.80 to 55.80): VV0  
Ion 98.15 (97.85 to 98.85): VV0

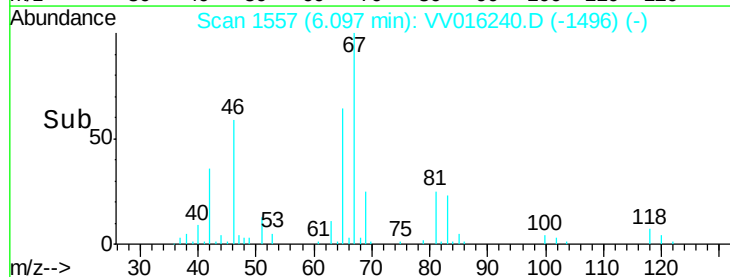
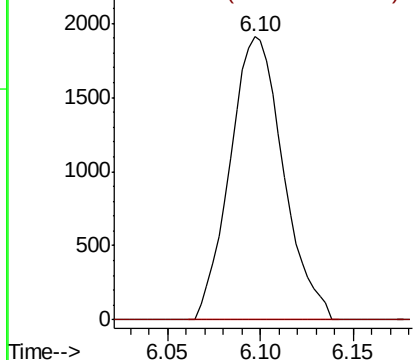


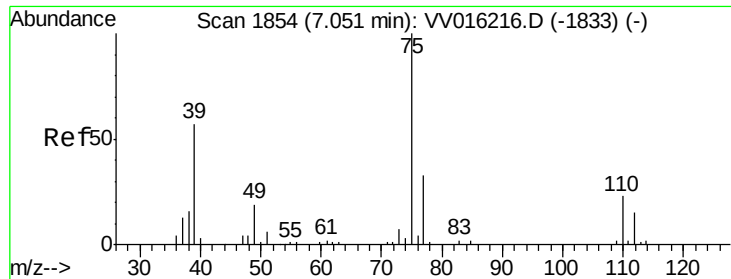
#37  
1,2-Dichloropropane  
Concen: 0.649 ug/L  
RT: 6.10 min Scan# 1557  
Delta R.T. -0.10 min  
Lab File: VV016240.D  
Acq: 27 May 2020 20:06

Tgt Ion: 63 Resp: 3810  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.1 4.7#



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

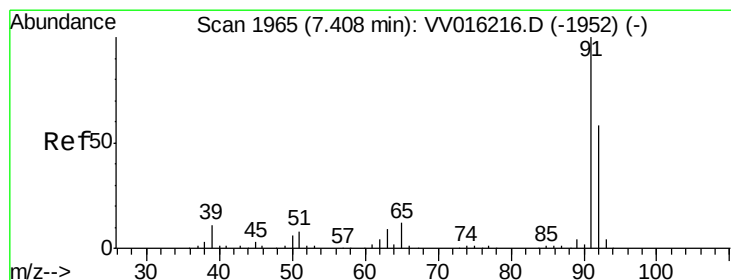
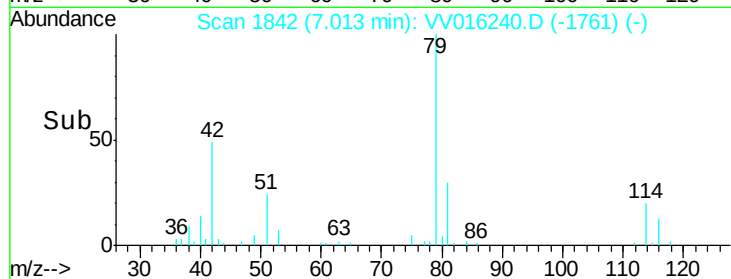
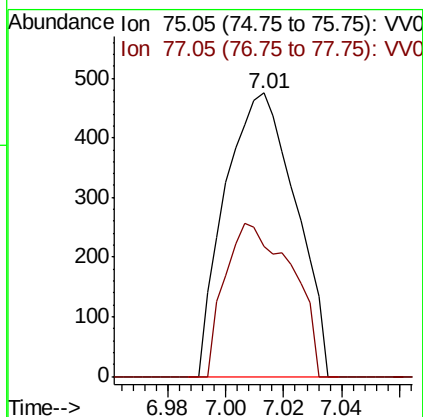
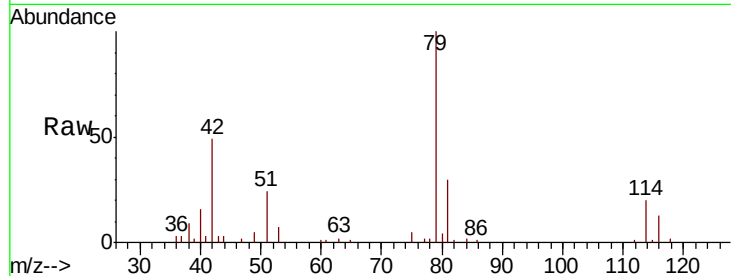




#39  
 cis-1,3-Dichloropropene  
 Concen: 0.097 ug/L  
 RT: 7.01 min Scan# 1842  
 Delta R.T. -0.04 min  
 Lab File: VV016240.D  
 Acq: 27 May 2020 20:06

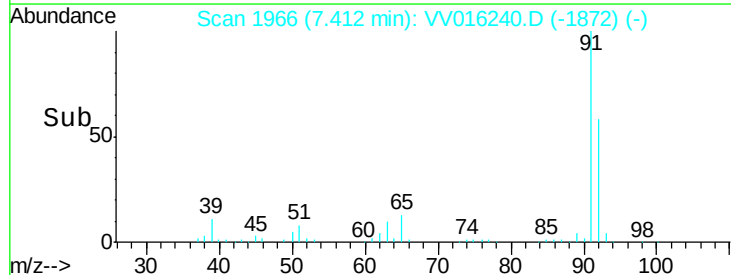
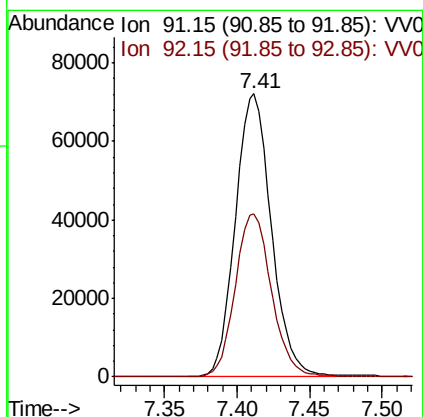
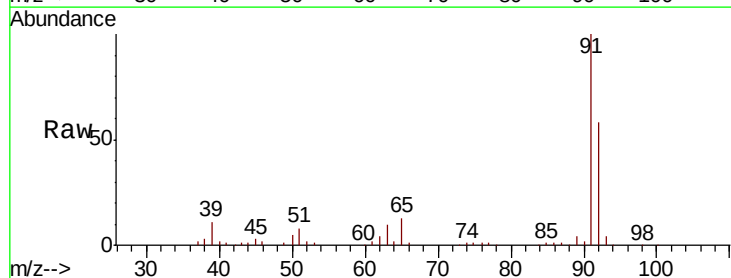
Instrument :  
 MSVOA\_V  
 ClientSampled :

Tot Ion: 75 Resp: 804  
 Ion Ratio Lower Upper  
 75 100  
 77 45.7 21.7 40.3#

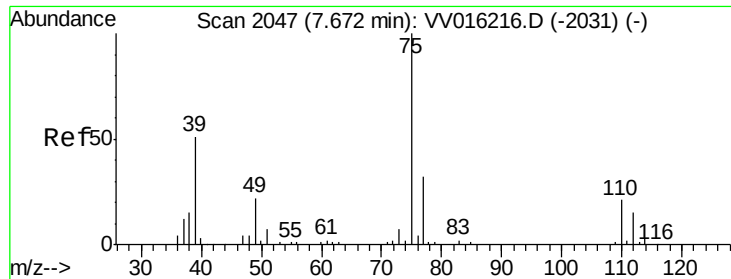


#42  
 Toluene  
 Concen: 4.778 ug/L  
 RT: 7.41 min Scan# 1966  
 Delta R.T. 0.00 min  
 Lab File: VV016240.D  
 Acq: 27 May 2020 20:06

Tgt Ion: 91 Resp: 124746  
 Ion Ratio Lower Upper  
 91 100  
 92 57.8 40.9 76.0







#46

trans-1,3-Dichloropropene

Concen: 0.064 ug/L

RT: 7.65 min Scan# 2039

Delta R.T. -0.03 min

Lab File: VV016240.D

Acq: 27 May 2020 20:06

Instrument :

MSVOA\_V

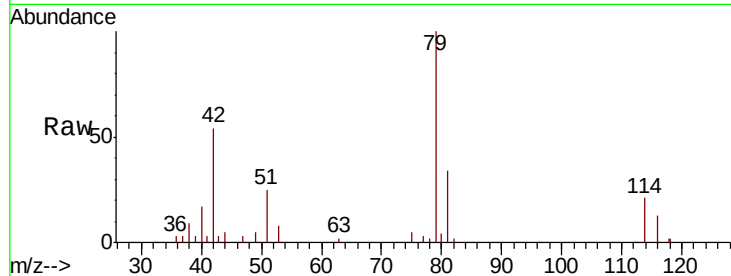
ClientSampleId :

Tot Ion: 75 Resp: 439

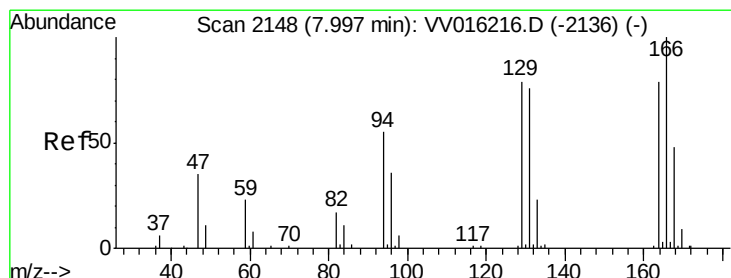
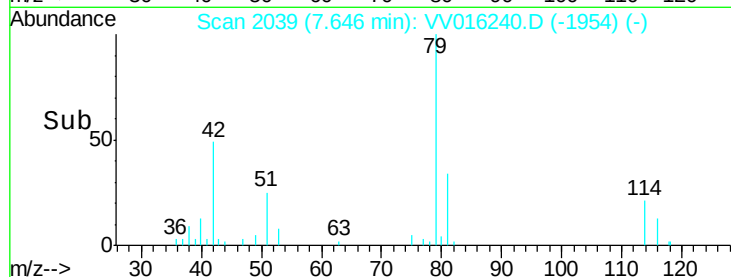
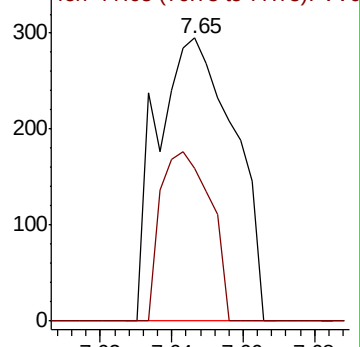
Ion Ratio Lower Upper

75 100

77 53.9 21.7 40.3#



Abundance Ion 75.05 (74.75 to 75.75): VV016240.D (-1954) (-)



#49

Tetrachloroethene

Concen: 0.784 ug/L

RT: 8.00 min Scan# 2149

Delta R.T. 0.00 min

Lab File: VV016240.D

Acq: 27 May 2020 20:06

Tgt Ion: 164 Resp: 3510

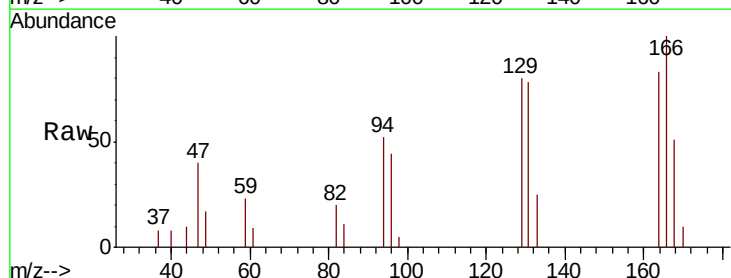
Ion Ratio Lower Upper

164 100

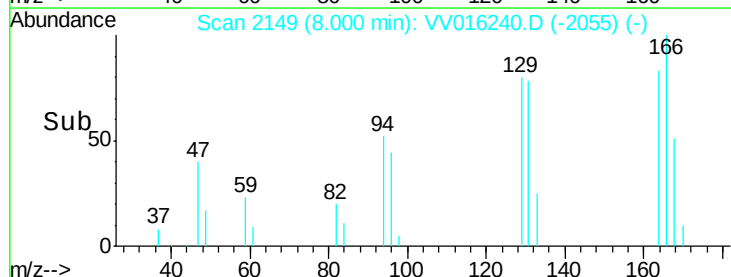
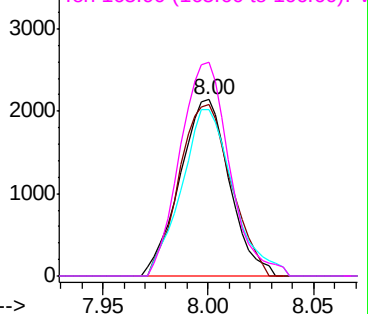
129 97.2 70.7 131.3

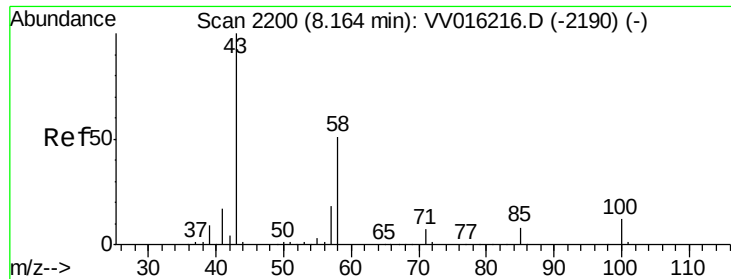
131 94.5 66.6 123.8

166 121.1 86.9 161.5



Abundance Ion 163.90 (163.60 to 164.60): VV016240.D (-2055) (-)

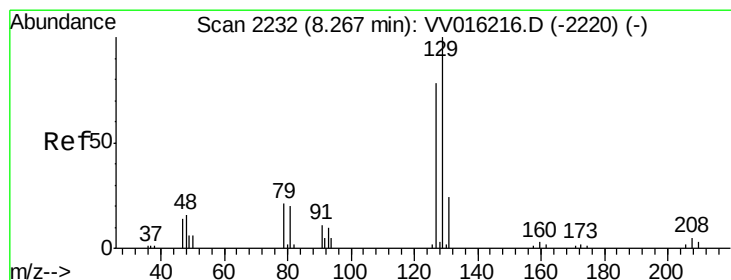
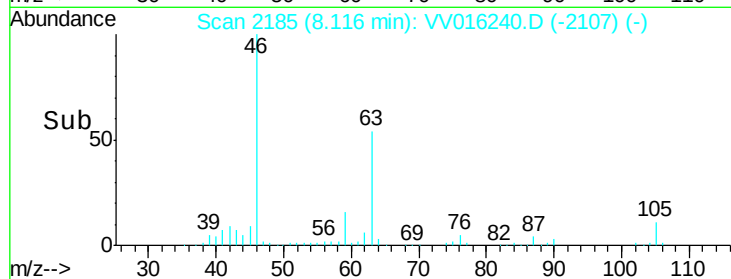
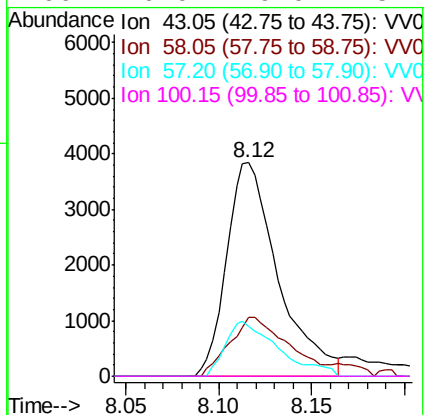
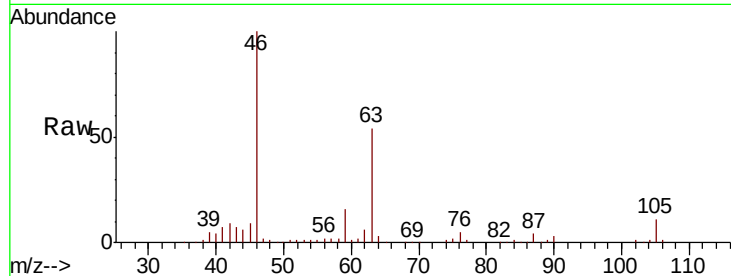




#50  
2-Hexanone  
Concen: 2.907 ug/L  
RT: 8.12 min Scan# 2185  
Delta R.T. -0.05 min  
Lab File: VV016240.D  
Acq: 27 May 2020 20:06

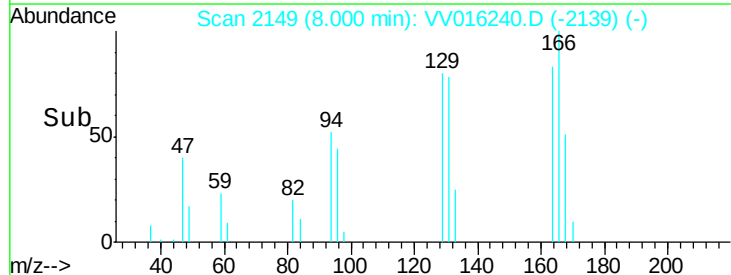
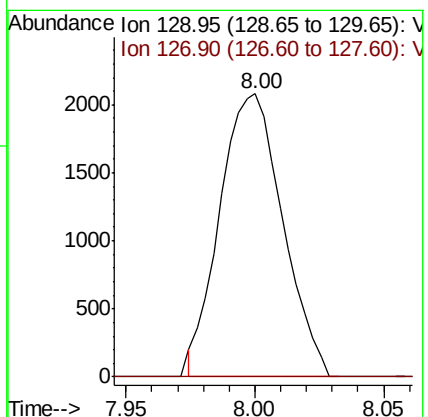
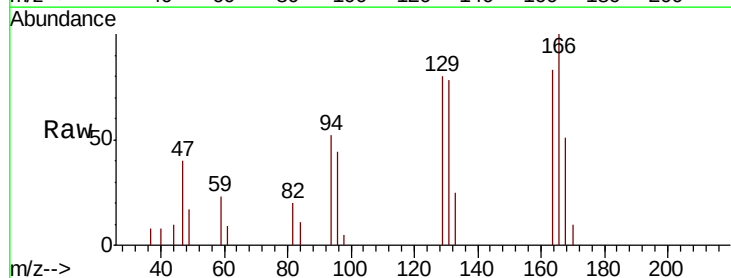
Instrument :  
MSVOA\_V  
ClientSampleId :

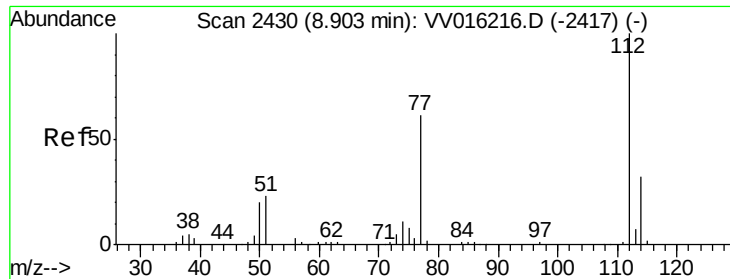
Tot Ion: 43 Resp: 7406  
Ion Ratio Lower Upper  
43 100  
58 31.3 41.4 62.0#  
57 26.2 15.0 22.4#  
100 0.0 9.0 13.4#



#51  
Dibromochloromethane  
Concen: 0.861 ug/L  
RT: 8.00 min Scan# 2149  
Delta R.T. -0.27 min  
Lab File: VV016240.D  
Acq: 27 May 2020 20:06

Tgt Ion: 129 Resp: 3520  
Ion Ratio Lower Upper  
129 100  
127 0.0 55.2 102.4#

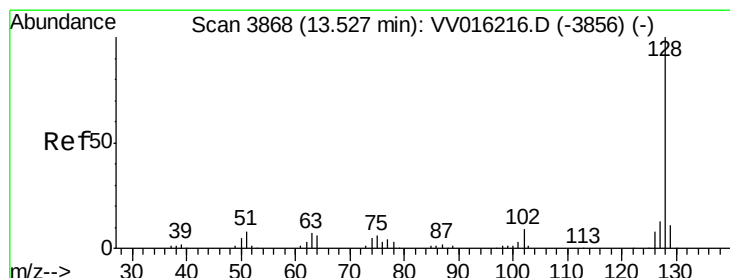
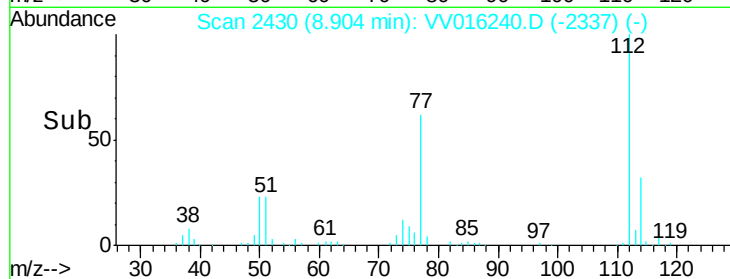
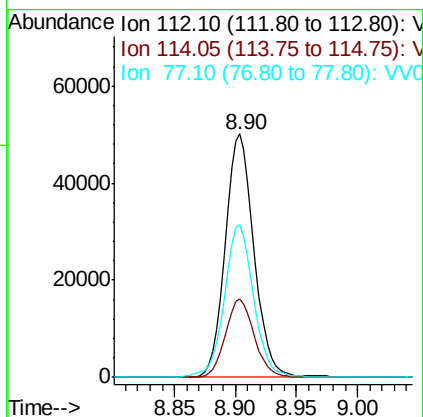
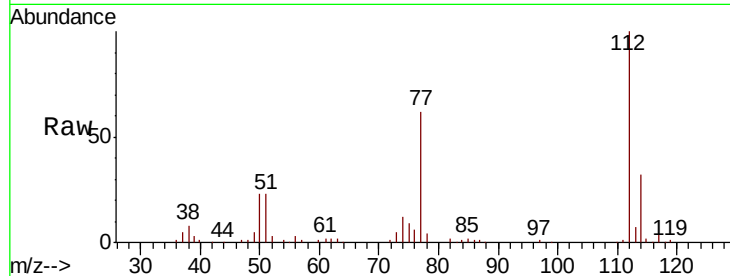




#53  
Chlorobenzene  
Concen: 5.139 ug/L  
RT: 8.90 min Scan# 2430  
Delta R.T. 0.00 min  
Lab File: VV016240.D  
Acq: 27 May 2020 20:06

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion:112 Resp: 82910  
Ion Ratio Lower Upper  
112 100  
114 32.2 22.3 41.3  
77 62.5 50.7 76.1



#70  
Naphthalene  
Concen: 0.114 ug/L  
RT: 13.53 min Scan# 3869  
Delta R.T. 0.00 min  
Lab File: VV016240.D  
Acq: 27 May 2020 20:06

Tgt Ion:128 Resp: 1722  
Ion Ratio Lower Upper  
128 100  
129 7.5 8.6 13.0#  
127 7.3 10.6 15.8#

