

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV050420\  
 Data File : VV015885.D  
 Acq On : 04 May 2020 15:21  
 Operator : SY/MD  
 Sample : L2432-04  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: May 05 01:32:15 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR042220WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue May 05 01:28:45 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 113226   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 110185   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 55514    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.31   | 65    | 29420    | 4.97     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 99.40%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 28046    | 4.92     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 98.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 44596    | 3.44     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 68.80%  |
| 20) 2-Butanone-d5              | 3.94   | 46    | 98088    | 51.63    | ug/L | -0.02   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 103.26% |
| 24) Chloroform-d               | 4.38   | 84    | 65112    | 4.72     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 38147    | 4.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 98.80%  |
| 32) Benzene-d6                 | 5.08   | 84    | 127969   | 4.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.40%  |
| 36) 1,2-Dichloropropane-d6     | 6.10   | 67    | 42937    | 5.11     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 102.20% |
| 41) Toluene-d8                 | 7.34   | 98    | 113739   | 4.55     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 91.00%  |
| 43) trans-1,3-Dichloropropene- | 7.65   | 79    | 14564    | 4.48     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 89.60%  |
| 46) 2-Hexanone-d5              | 8.11   | 63    | 76541    | 48.30    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 96.60%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 30183    | 4.82     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 96.40%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 46078    | 4.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 97.60%  |

## Target Compounds

|                                |       |     |        |              | Ovalue |
|--------------------------------|-------|-----|--------|--------------|--------|
| 8) Chloroethane                | 1.61  | 64  | 1319   | 0.224 ug/L # | 73     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.12  | 101 | 570    | 0.080 ug/L # | 24     |
| 12) 1,1-Dichloroethene         | 2.12  | 96  | 597    | 0.091 ug/L # | 1      |
| 14) Carbon disulfide           | 2.31  | 76  | 868    | 0.047 ug/L # | 79     |
| 25) Chloroform                 | 4.41  | 83  | 3769   | 0.245 ug/L   | 92     |
| 33) Benzene                    | 5.13  | 78  | 41599  | 1.321 ug/L   | 100    |
| 34) Trichloroethene            | 6.06  | 95  | 9680   | 1.113 ug/L # | 10     |
| 35) Methylcyclohexane          | 6.10  | 83  | 10155  | 0.761 ug/L # | 17     |
| 37) 1,2-Dichloropropane        | 6.09  | 63  | 5400   | 0.675 ug/L # | 86     |
| 42) Toluene                    | 7.41  | 91  | 54778  | 1.629 ug/L   | 99     |
| 44) trans-1,3-Dichloropropene  | 7.64  | 75  | 771    | 0.082 ug/L   | 92     |
| 52) Ethylbenzene               | 9.03  | 91  | 431705 | 11.090 ug/L  | 98     |
| 53) m,p-xylene                 | 9.16  | 106 | 218769 | 15.343 ug/L  | 100    |
| 54) o-xylene                   | 9.57  | 106 | 134116 | 9.721 ug/L   | 96     |
| 55) Styrene                    | 9.58  | 104 | 14944  | 0.638 ug/L # | 1      |
| 56) Isopropylbenzene           | 9.95  | 105 | 28938  | 0.748 ug/L   | 96     |
| 59) 1,2,3-Trichloropropane     | 10.37 | 75  | 683    | 0.134 ug/L # | 1      |

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ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

Quant Time: May 05 01:32:15 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR042220WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue May 05 01:28:45 2020  
Response via : Initial Calibration

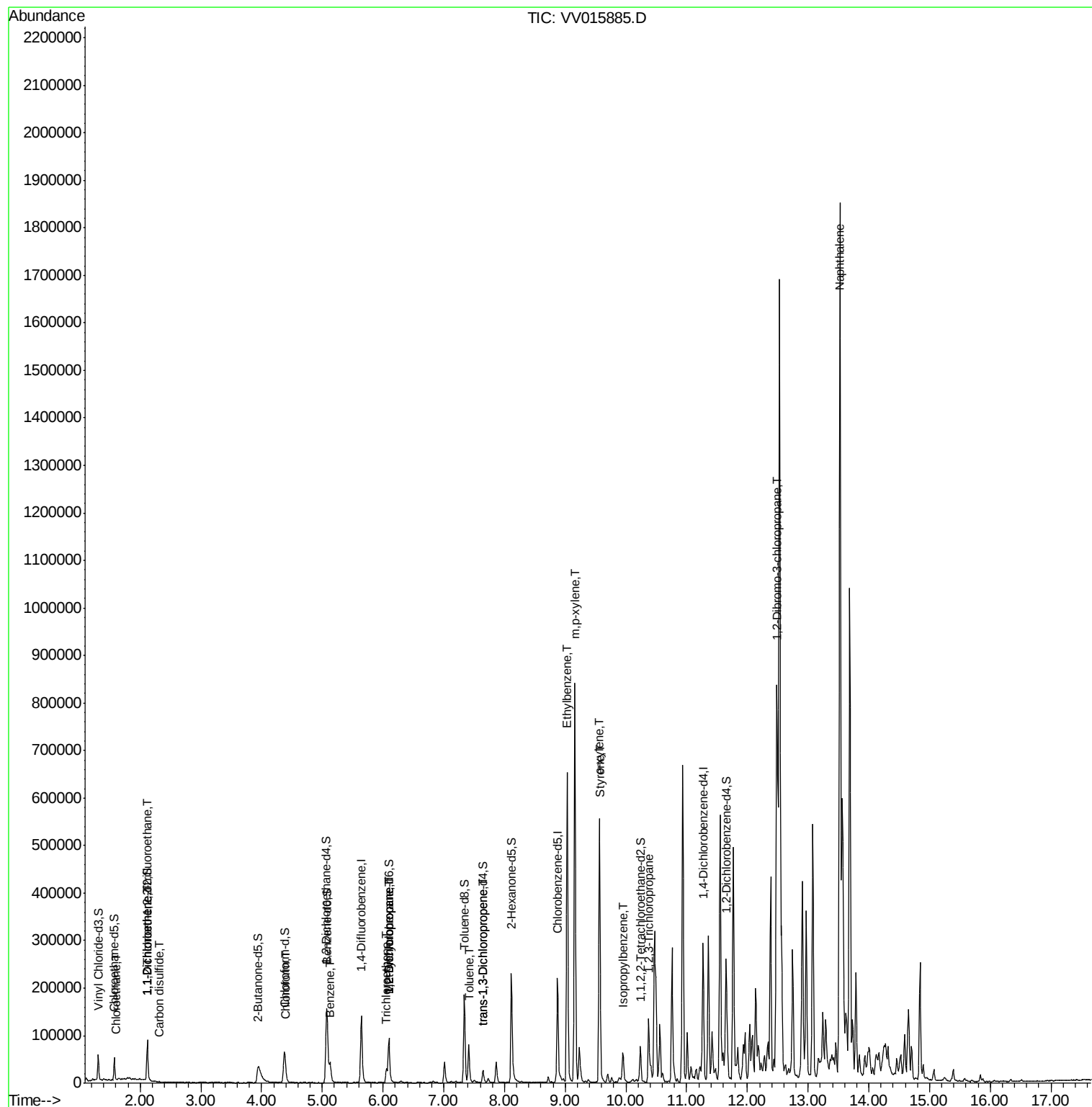
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 66) 1,2-Dibromo-3-chloropropan | 12.49 | 75   | 21084    | 20.366 | ug/L # | 11       |
| 69) Naphthalene                | 13.52 | 128  | 1198999  | 56.060 | ug/L   | 98       |

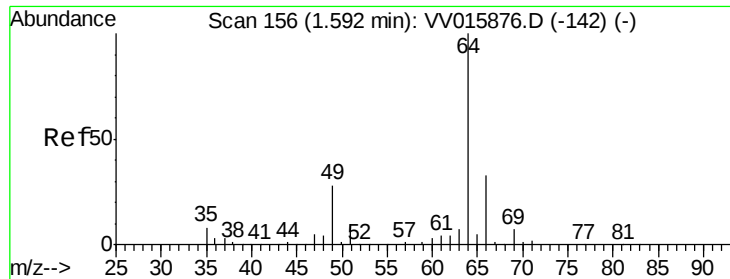
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#8

Chloroethane

Concen: 0.224 ug/L

RT: 1.61 min Scan# 163

Delta R.T. 0.02 min

Lab File: VV015885.D

Acq: 04 May 2020 15:21

Instrument :

MSVOA\_V

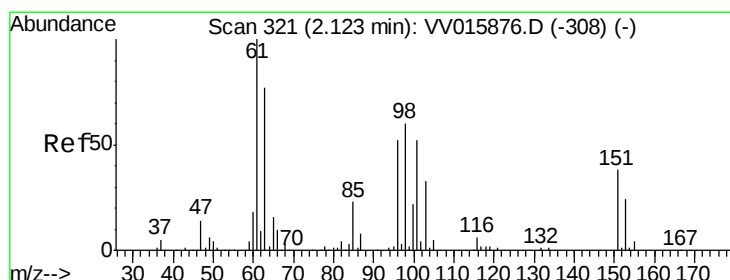
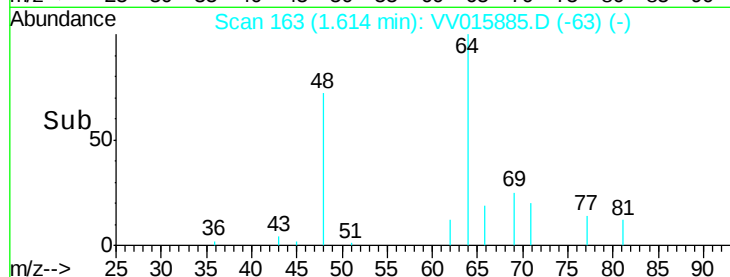
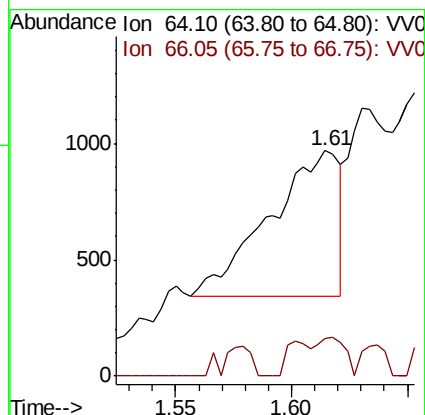
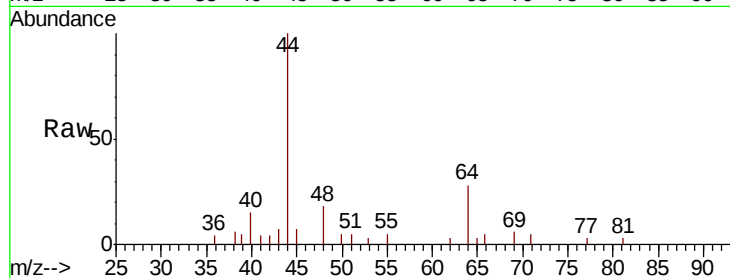
ClientSampled :

Tot Ion: 64 Resp: 1319

Ion Ratio Lower Upper

64 100

66 16.6 22.3 41.5#



#10

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

Concen: 0.080 ug/L

RT: 2.12 min Scan# 319

Delta R.T. -0.01 min

Lab File: VV015885.D

Acq: 04 May 2020 15:21

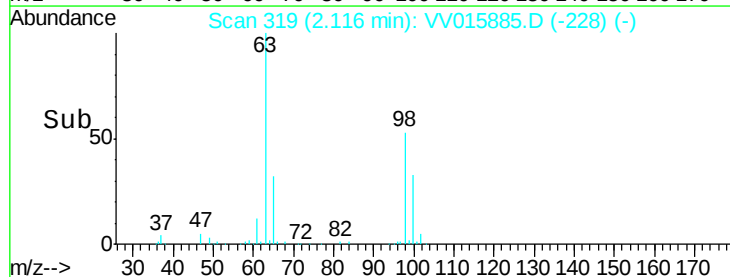
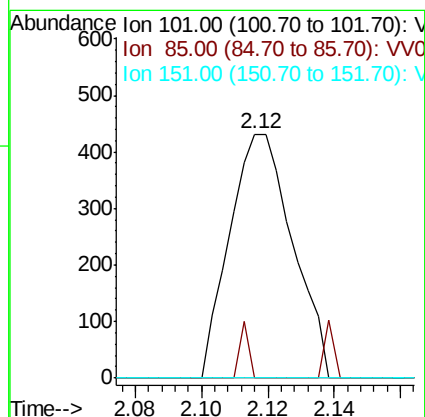
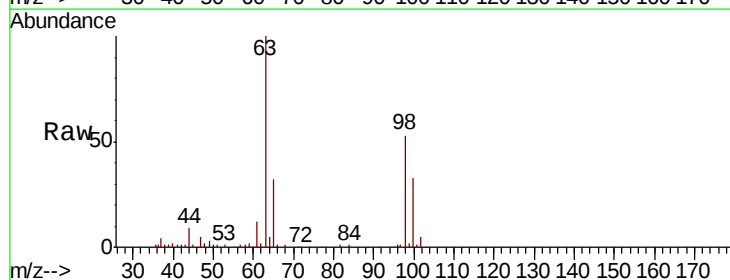
Tgt Ion: 101 Resp: 570

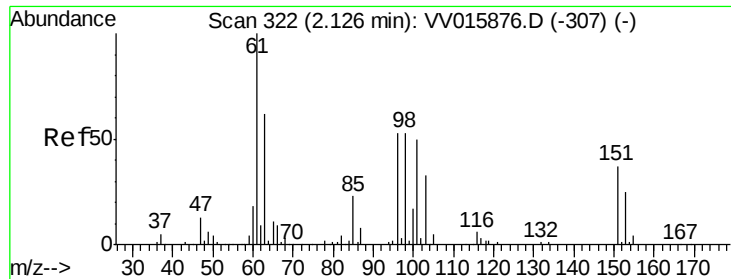
Ion Ratio Lower Upper

101 100

85 3.3 36.1 54.1#

151 0.0 55.2 82.8#

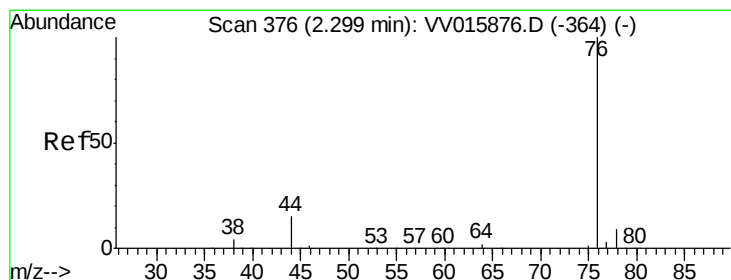
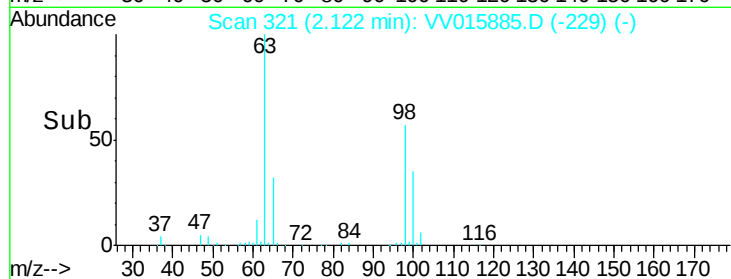
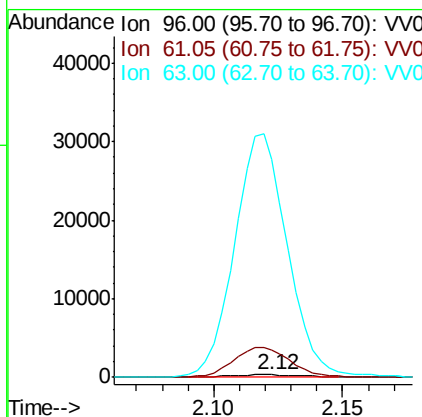
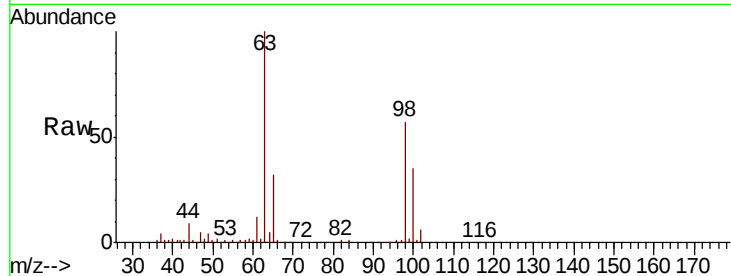




#12  
 1,1-Dichloroethene  
 Concen: 0.091 ug/L  
 RT: 2.12 min Scan# 321  
 Delta R.T. -0.00 min  
 Lab File: VV015885.D  
 Acq: 04 May 2020 15:21

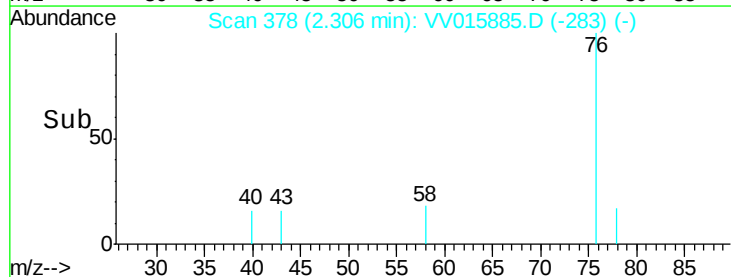
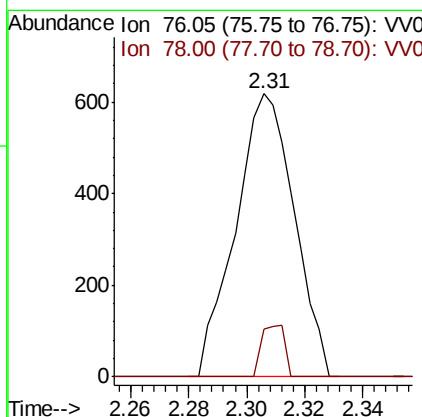
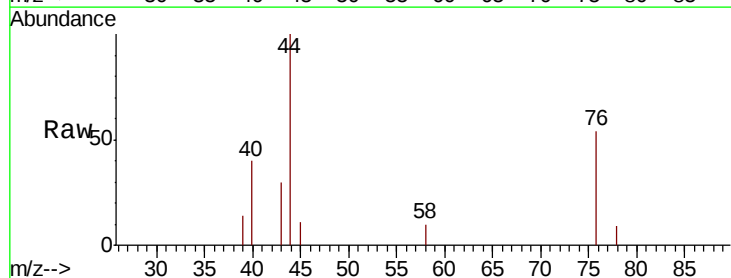
Instrument :  
 MSVOA\_V  
 ClientSampleId :

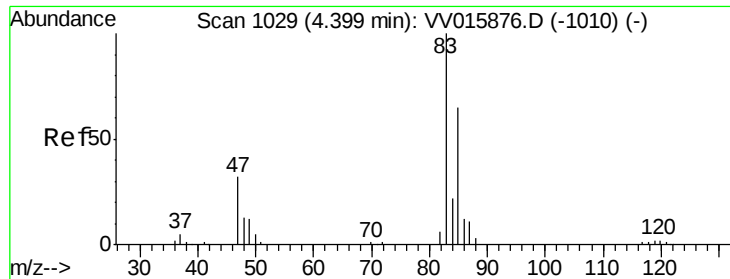
Tot Ion: 96 Resp: 597  
 Ion Ratio Lower Upper  
 96 100  
 61 1109.0 130.1 241.7#  
 63 8884.6 91.4 169.8#



#14  
 Carbon disulfide  
 Concen: 0.047 ug/L  
 RT: 2.31 min Scan# 378  
 Delta R.T. 0.01 min  
 Lab File: VV015885.D  
 Acq: 04 May 2020 15:21

Tgt Ion: 76 Resp: 868  
 Ion Ratio Lower Upper  
 76 100  
 78 16.8 7.4 11.0#

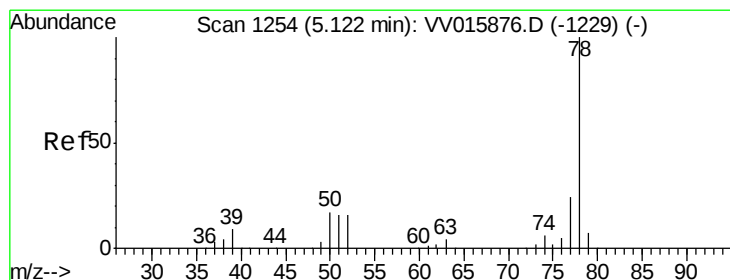
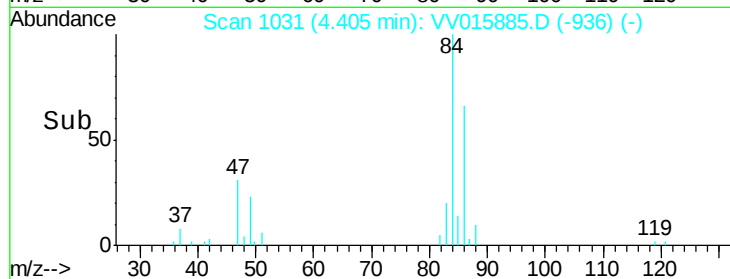
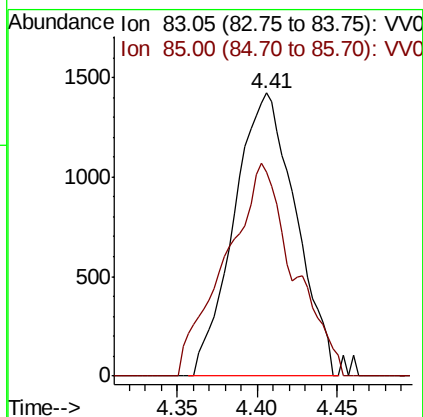
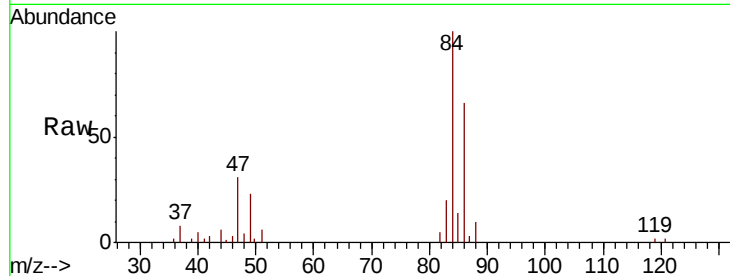




#25  
Chloroform  
Concen: 0.245 ug/L  
RT: 4.41 min Scan# 1031  
Delta R.T. 0.01 min  
Lab File: VV015885.D  
Acq: 04 May 2020 15:21

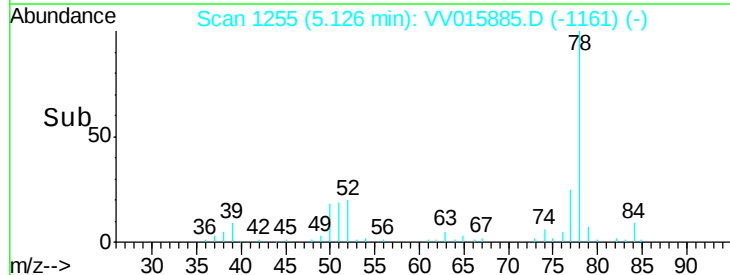
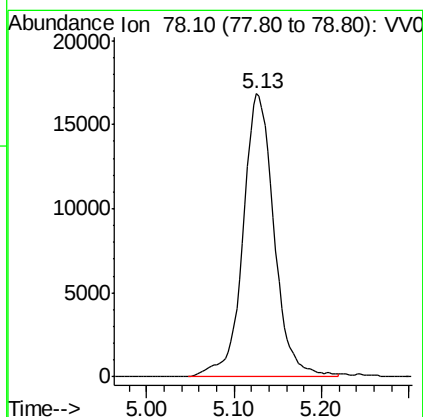
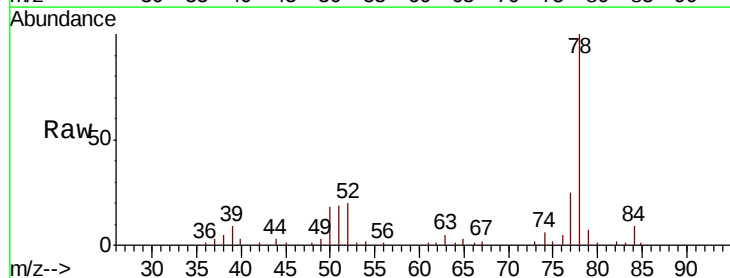
Instrument :  
MSVOA\_V  
ClientSampleId :

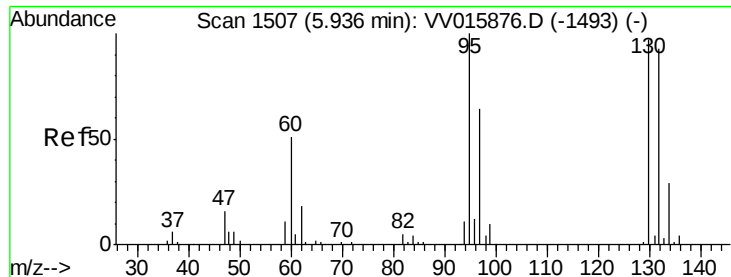
Tot Ion: 83 Resp: 3769  
Ion Ratio Lower Upper  
83 100  
85 71.9 46.1 85.5



#33  
Benzene  
Concen: 1.321 ug/L  
RT: 5.13 min Scan# 1255  
Delta R.T. 0.00 min  
Lab File: VV015885.D  
Acq: 04 May 2020 15:21

Tgt Ion: 78 Resp: 41599





#34

Trichloroethene

Concen: 1.113 ug/L

RT: 6.06 min Scan# 1545

Delta R.T. 0.12 min

Lab File: VV015885.D

Acq: 04 May 2020 15:21

Instrument :

MSVOA\_V

ClientSampleId :

Tot Ion: 95 Resp: 9680

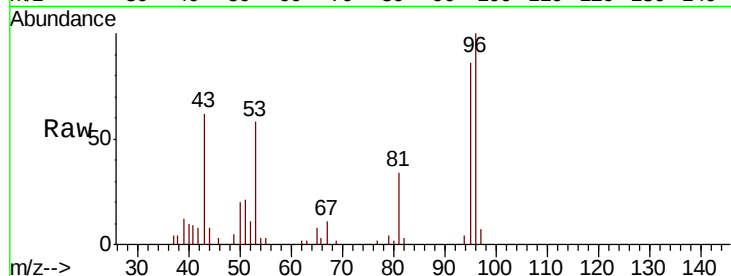
Ion Ratio Lower Upper

95 100

97 7.8 44.7 82.9#

132 0.0 65.2 121.0#

130 0.0 65.0 120.6#

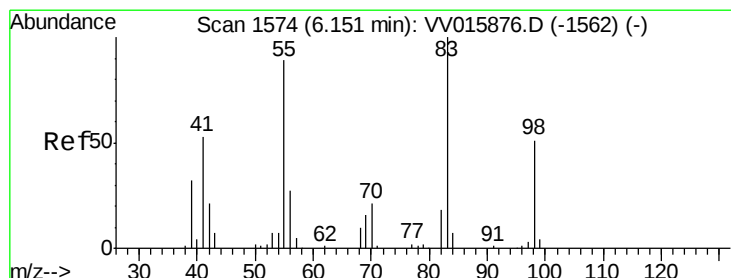
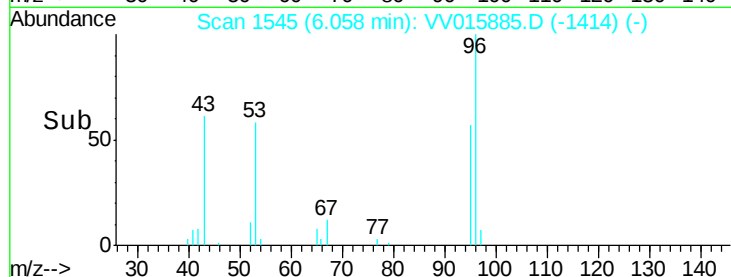
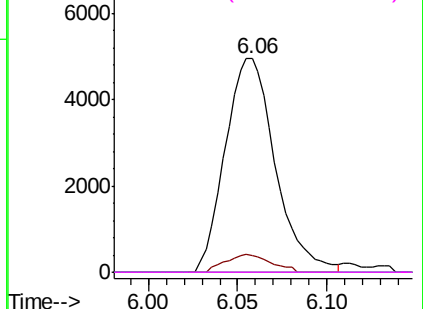


Abundance Ion 95.00 (94.70 to 95.70): VV0

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



#35

Methylcyclohexane

Concen: 0.761 ug/L

RT: 6.10 min Scan# 1557

Delta R.T. -0.05 min

Lab File: VV015885.D

Acq: 04 May 2020 15:21

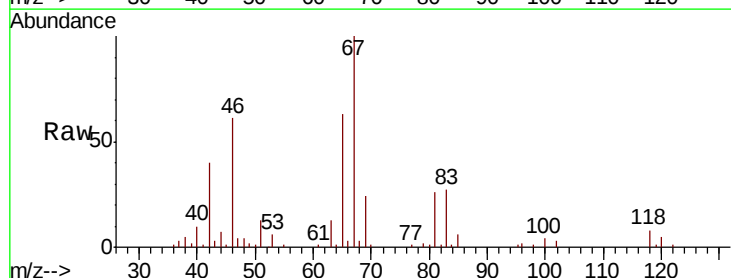
Tgt Ion: 83 Resp: 10155

Ion Ratio Lower Upper

83 100

55 1.2 66.6 99.8#

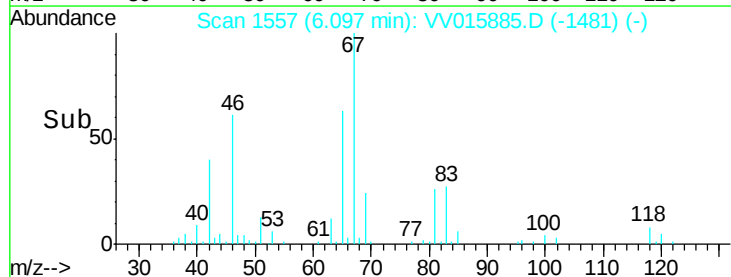
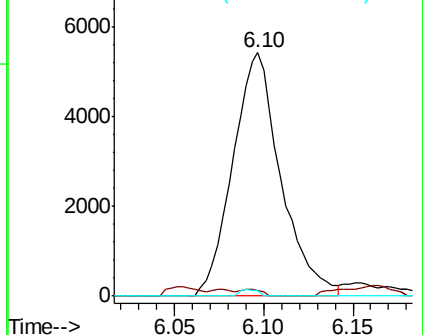
98 1.0 39.5 59.3#

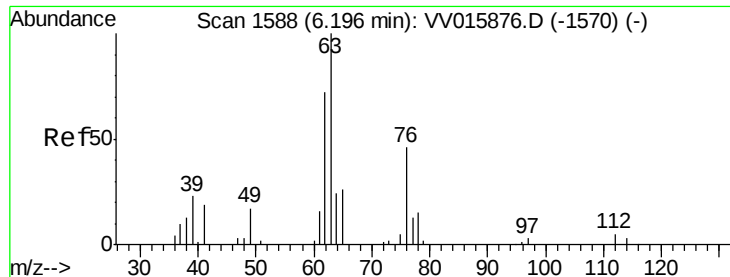


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

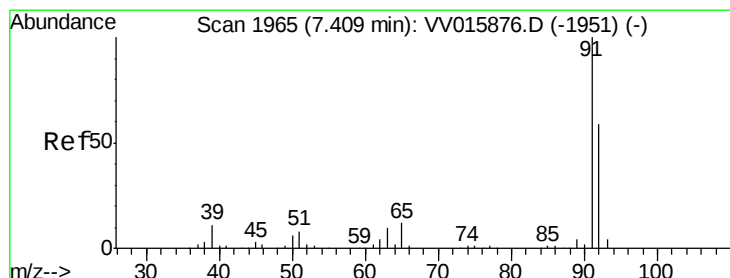
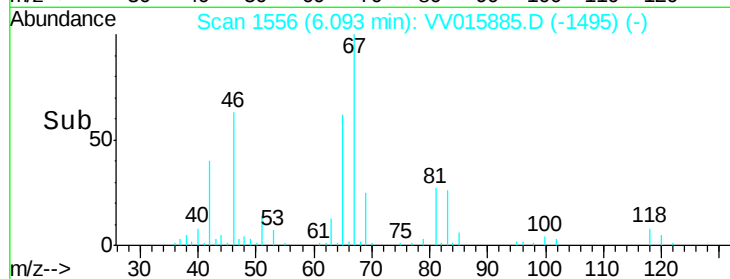
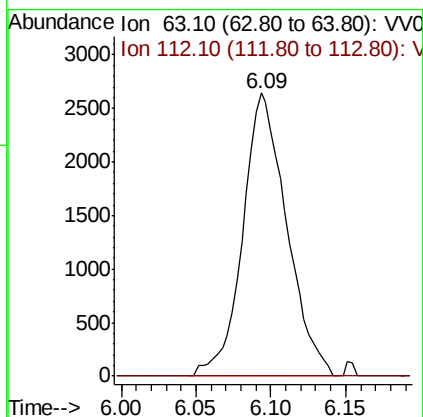
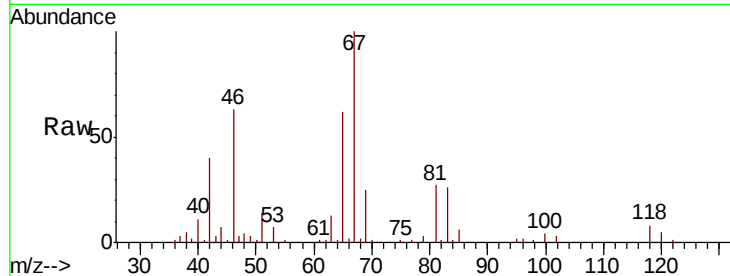




#37  
 1,2-Dichloropropane  
 Concen: 0.675 ug/L  
 RT: 6.09 min Scan# 1556  
 Delta R.T. -0.10 min  
 Lab File: VV015885.D  
 Acq: 04 May 2020 15:21

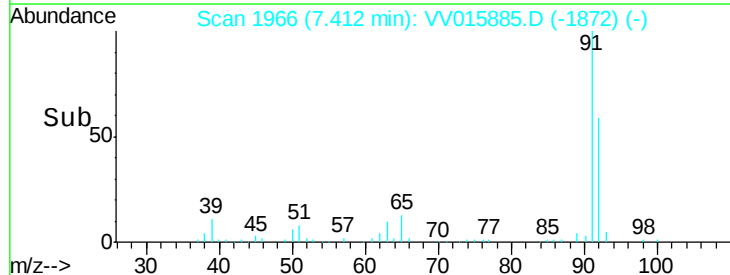
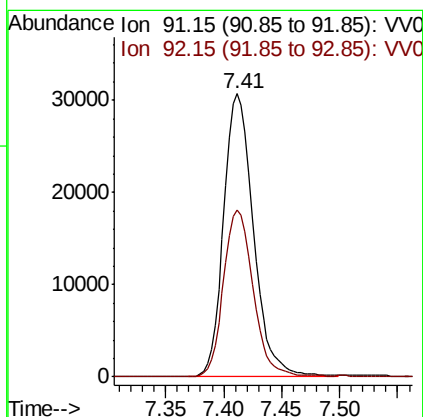
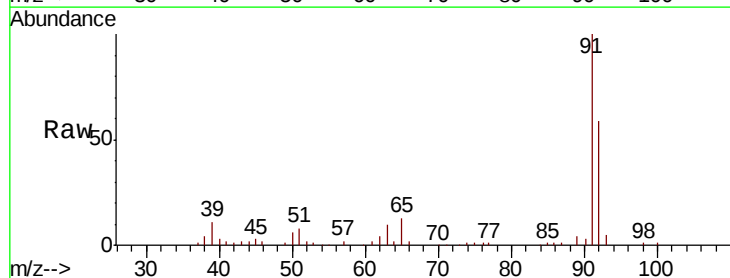
Instrument :  
 MSVOA\_V  
 ClientSampleId :

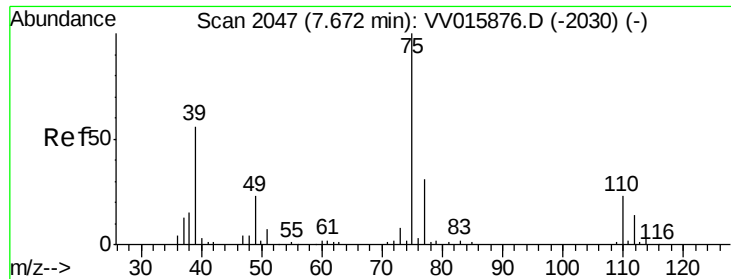
Tot Ion: 63 Resp: 5400  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.6 5.4#



#42  
 Toluene  
 Concen: 1.629 ug/L  
 RT: 7.41 min Scan# 1966  
 Delta R.T. 0.00 min  
 Lab File: VV015885.D  
 Acq: 04 May 2020 15:21

Tgt Ion: 91 Resp: 54778  
 Ion Ratio Lower Upper  
 91 100  
 92 59.1 40.7 75.7





#44

trans-1,3-Dichloropropene

Concen: 0.082 ug/L

RT: 7.64 min Scan# 2038

Delta R.T. -0.03 min

Lab File: VV015885.D

Acq: 04 May 2020 15:21

Instrument :

MSVOA\_V

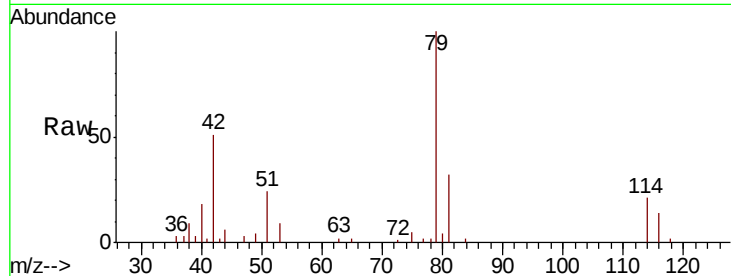
ClientSampleId :

Tot Ion: 75 Resp: 771

Ion Ratio Lower Upper

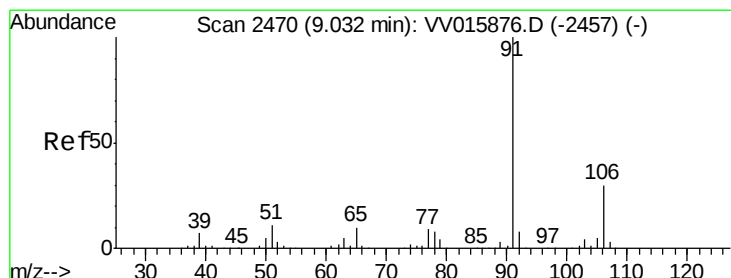
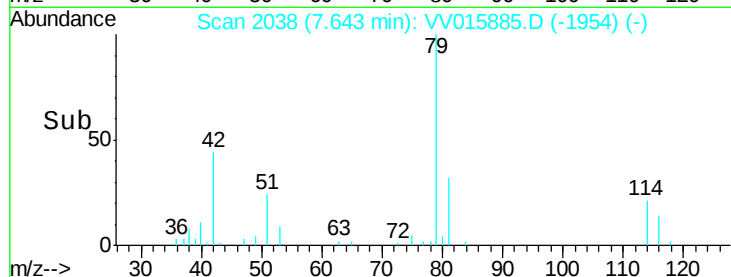
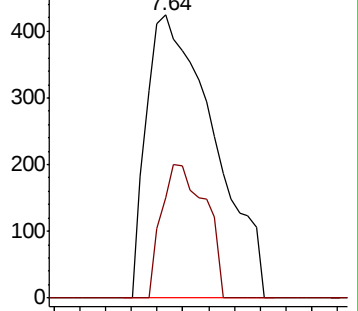
75 100

77 35.4 21.8 40.6



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0



#52

Ethylbenzene

Concen: 11.090 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. -0.00 min

Lab File: VV015885.D

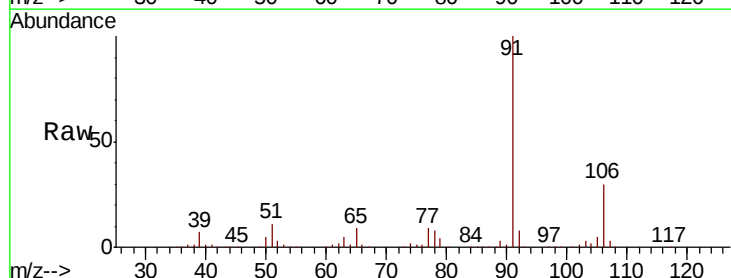
Acq: 04 May 2020 15:21

Tgt Ion: 91 Resp: 431705

Ion Ratio Lower Upper

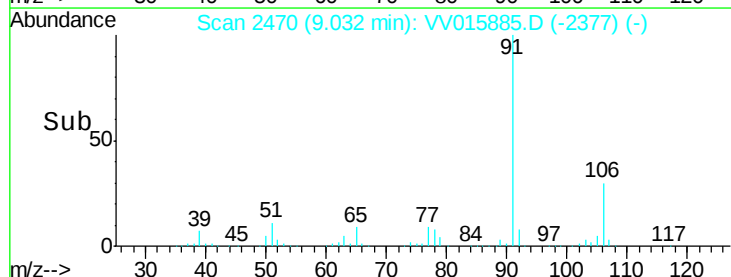
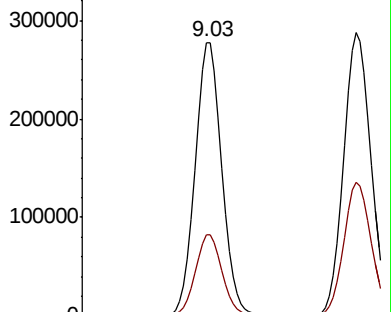
91 100

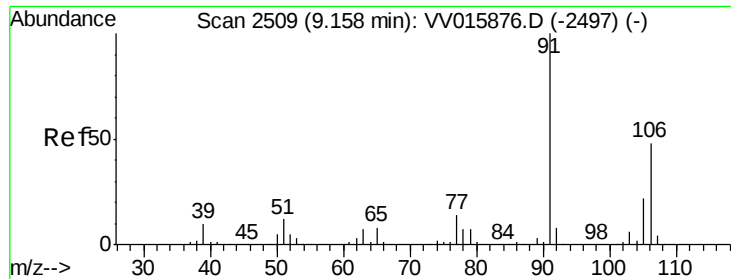
106 29.5 21.3 39.5



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 106.15 (105.85 to 106.85): V





#53

m,p-xylene

Concen: 15.343 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VV015885.D

Acq: 04 May 2020 15:21

Instrument :

MSVOA\_V

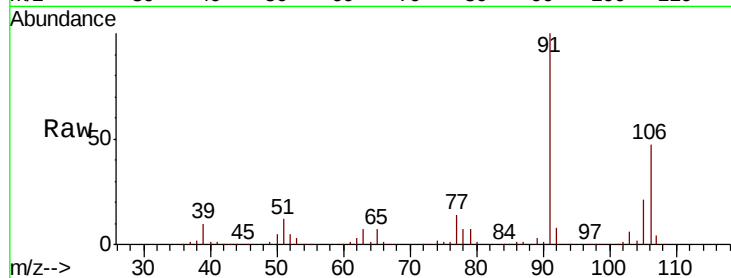
ClientSampleId :

Tot Ion:106 Resp: 218769

Ion Ratio Lower Upper

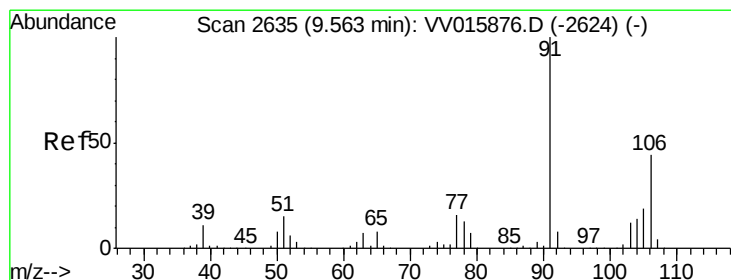
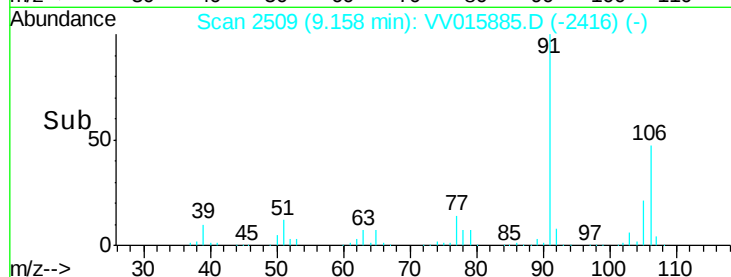
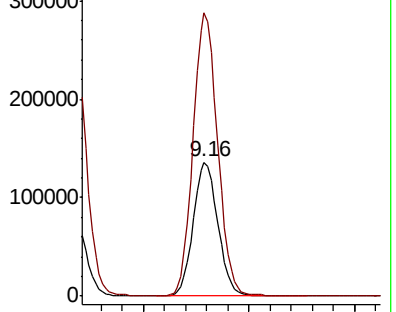
106 100

91 211.2 147.8 274.4



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#54

o-xylene

Concen: 9.721 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV015885.D

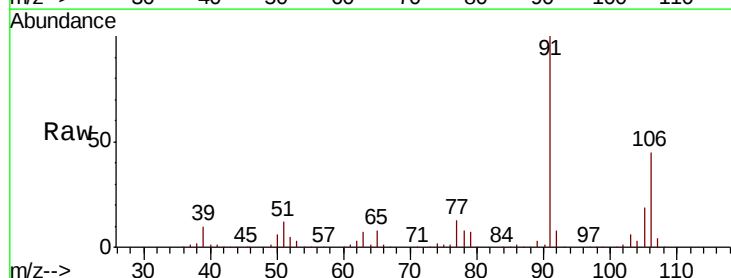
Acq: 04 May 2020 15:21

Tgt Ion:106 Resp: 134116

Ion Ratio Lower Upper

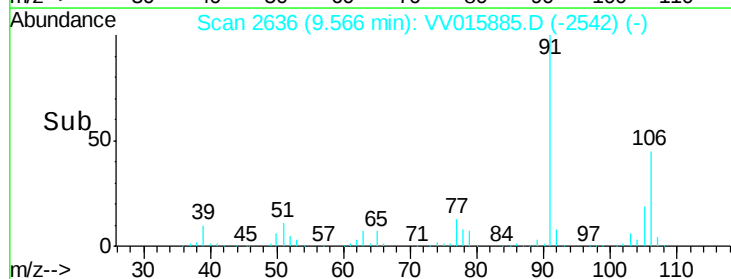
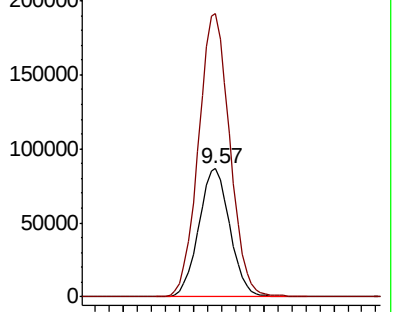
106 100

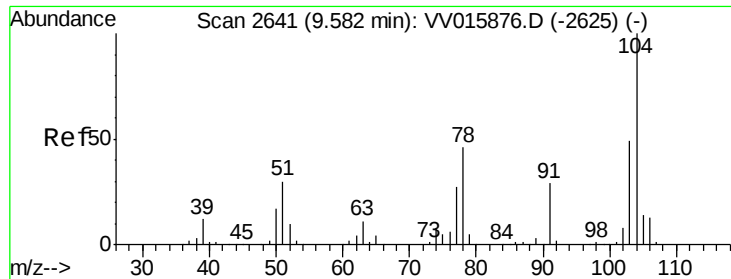
91 221.1 159.8 296.8



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0





#55

Stvrene

Concen: 0.638 ug/L

RT: 9.58 min Scan# 2640

Delta R.T. -0.00 min

Lab File: VV015885.D

Acq: 04 May 2020 15:21

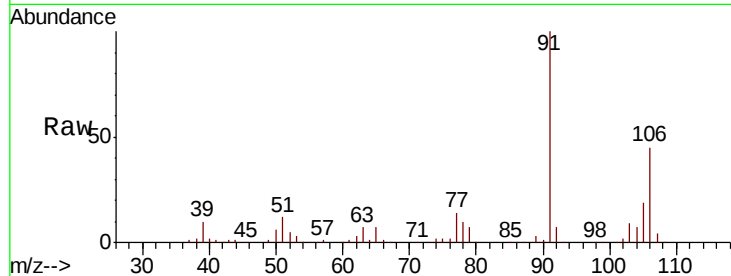
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion:104 Resp: 14944

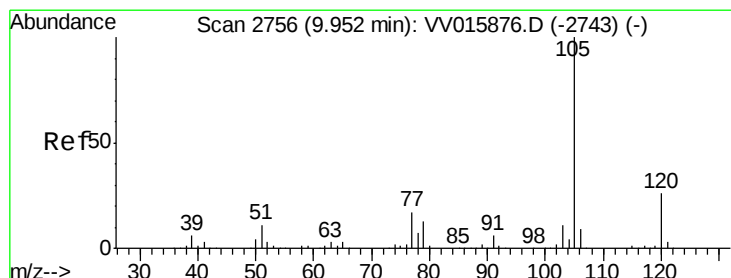
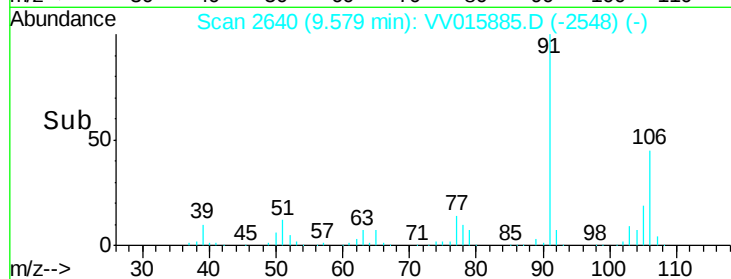
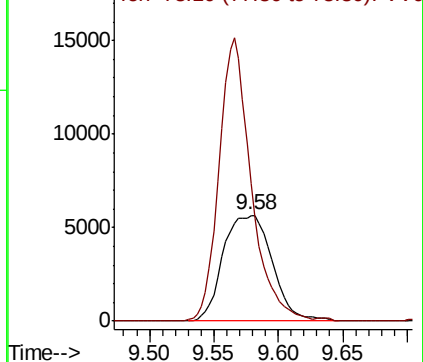
Ion Ratio Lower Upper

104 100

78 130.0 34.5 64.1#



Abundance Ion 104.10 (103.80 to 104.80): V  
Ion 78.10 (77.80 to 78.80): VV0



#56

Isopropylbenzene

Concen: 0.748 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VV015885.D

Acq: 04 May 2020 15:21

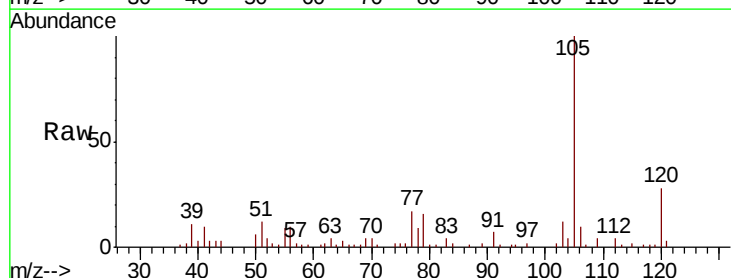
Tgt Ion:105 Resp: 28938

Ion Ratio Lower Upper

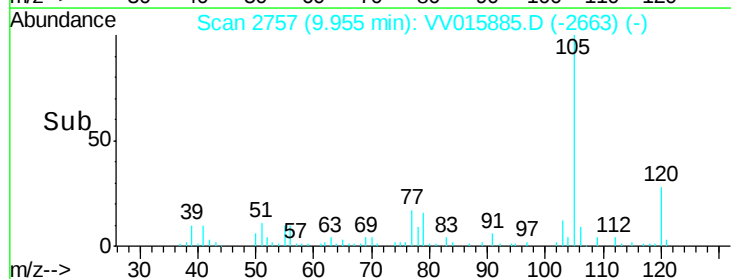
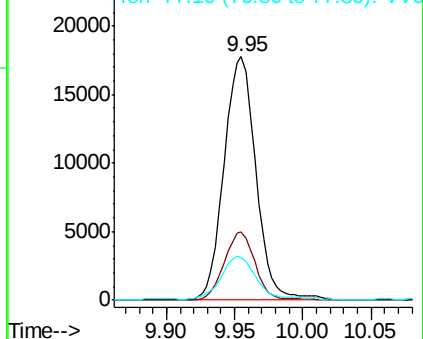
105 100

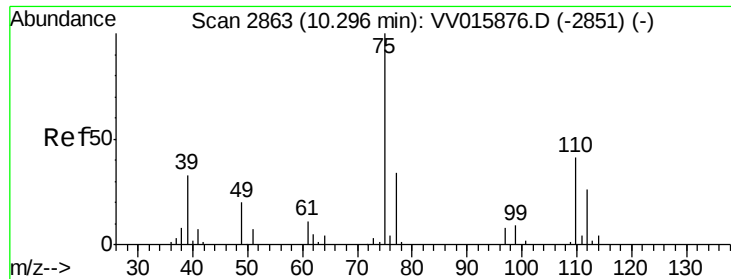
120 26.9 20.7 31.1

77 20.5 13.9 20.9



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): VV0





#59

1,2,3-Trichloropropane

Concen: 0.134 ug/L

RT: 10.37 min Scan# 2887

Delta R.T. 0.08 min

Lab File: VV015885.D

Acq: 04 May 2020 15:21

Instrument :

MSVOA\_V

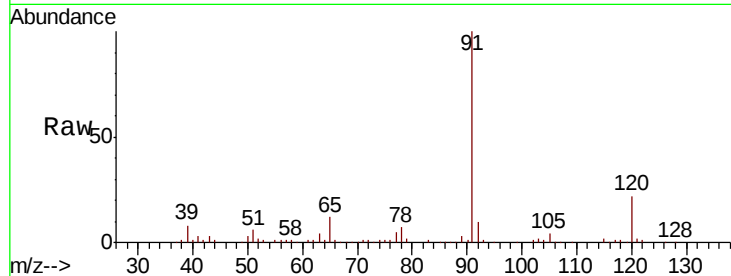
ClientSampled :

Tot Ion: 75 Resp: 683

Ion Ratio Lower Upper

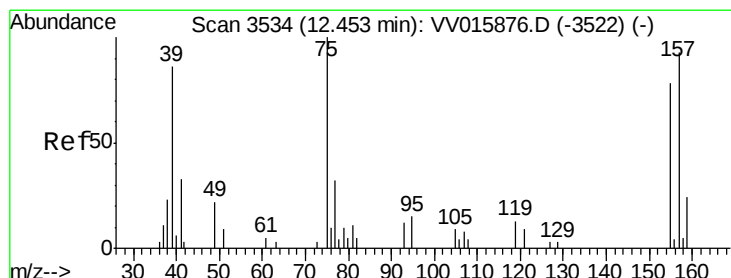
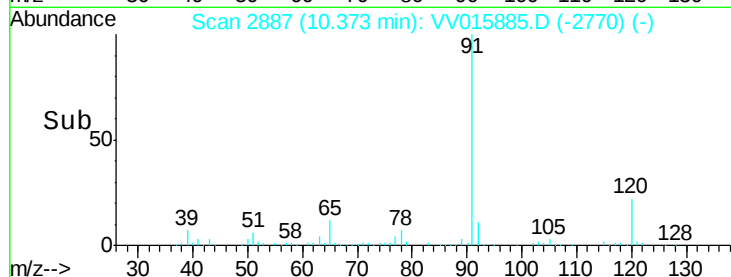
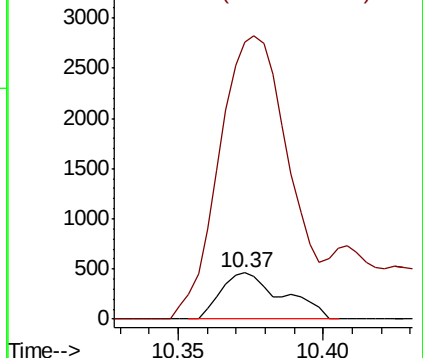
75 100

77 687.3 26.0 39.0#



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0



#66

1,2-Dibromo-3-chloropropane

Concen: 20.366 ug/L

RT: 12.49 min Scan# 3544

Delta R.T. 0.03 min

Lab File: VV015885.D

Acq: 04 May 2020 15:21

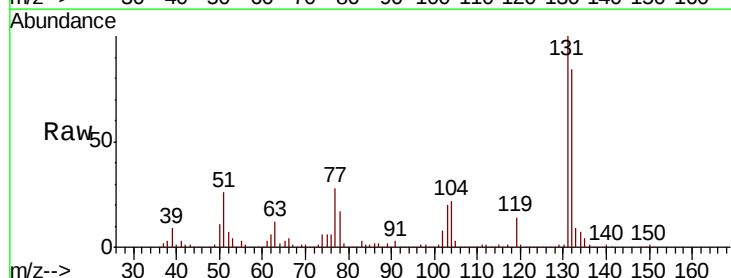
Tgt Ion: 75 Resp: 21084

Ion Ratio Lower Upper

75 100

155 0.0 51.0 76.4#

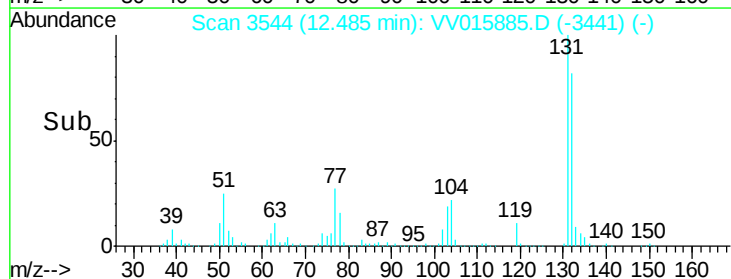
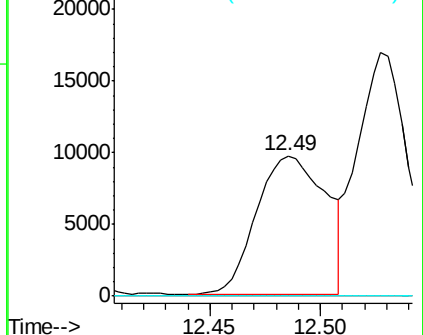
157 0.0 70.6 106.0#

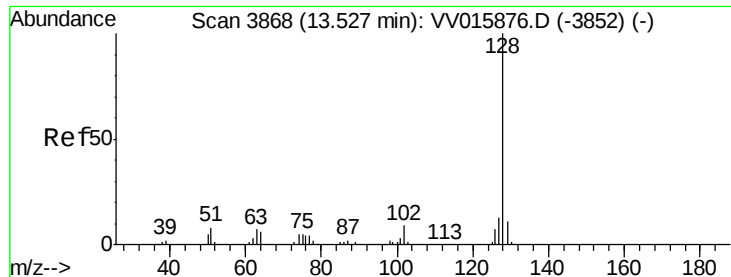


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V





#69

Naphthalene

Concen: 56.060 ug/L

RT: 13.52 min Scan# 3867

Delta R.T. -0.00 min

Lab File: VV015885.D

Acq: 04 May 2020 15:21

Instrument :

MSVOA\_V

ClientSampleId :

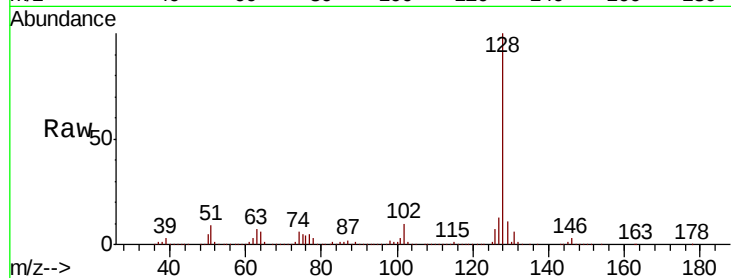
Tot Ion:128 Resp: 1198999

Ion Ratio Lower Upper

128 100

129 11.5 8.4 12.6

127 13.3 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

