

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV072420\  
 Data File : VV017652.D  
 Acq On : 24 Jul 2020 18:12  
 Operator : SY/MD  
 Sample : L3395-16DL 5X  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Jul 25 00:11:15 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR072320WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Jul 25 00:05:26 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 170580   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 165242   | 5.00 | ug/L  | 0.00     |
| 61) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 87513    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.31   | 65    | 33500    | 4.11     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 82.20% |
| 7) Chloroethane-d5             | 1.58   | 69    | 27403    | 4.40     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 88.00% |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 56906    | 3.12     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 62.40% |
| 20) 2-Butanone-d5              | 3.96   | 46    | 74204    | 38.08    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 76.16% |
| 24) Chloroform-d               | 4.37   | 84    | 87230    | 4.42     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 88.40% |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 48487    | 4.77     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 95.40% |
| 32) Benzene-d6                 | 5.07   | 84    | 158347   | 4.35     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 87.00% |
| 36) 1,2-Dichloropropane-d6     | 6.09   | 67    | 42693    | 4.22     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 84.40% |
| 41) Toluene-d8                 | 7.34   | 98    | 146196   | 4.19     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 83.80% |
| 45) trans-1,3-Dichloropropene- | 7.65   | 79    | 18403    | 4.01     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 80.20% |
| 48) 2-Hexanone-d5              | 8.12   | 63    | 52981    | 37.26    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 74.52% |
| 59) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 29815    | 4.23     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 84.60% |
| 65) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 62790    | 4.74     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 94.80% |

## Target Compounds

|                               |       |     |       | Ovalue       |     |
|-------------------------------|-------|-----|-------|--------------|-----|
| 12) 1,1-Dichloroethene        | 2.14  | 96  | 828   | 0.090 ug/L # | 1   |
| 14) Carbon disulfide          | 2.31  | 76  | 1609  | 0.058 ug/L # | 73  |
| 16) Methylene chloride        | 2.52  | 84  | 4516  | 0.442 ug/L   | 88  |
| 30) Cyclohexane               | 4.70  | 56  | 4652  | 0.254 ug/L # | 90  |
| 33) Benzene                   | 5.12  | 78  | 39701 | 0.849 ug/L   | 100 |
| 35) Methylcyclohexane         | 6.14  | 83  | 1682  | 0.085 ug/L # | 84  |
| 37) 1,2-Dichloropropane       | 6.09  | 63  | 5936  | 0.540 ug/L # | 87  |
| 42) Toluene                   | 7.41  | 91  | 16611 | 0.326 ug/L   | 99  |
| 43) 1,3,5-Trimethylbenzene    | 10.56 | 105 | 14133 | 0.297 ug/L   | 90  |
| 44) 1,2,4-Trimethylbenzene    | 10.94 | 105 | 78966 | 1.622 ug/L   | 99  |
| 46) trans-1,3-Dichloropropene | 7.66  | 75  | 1046  | 0.070 ug/L   | 93  |
| 50) 2-Hexanone                | 8.17  | 43  | 2747  | 0.644 ug/L # | 52  |
| 54) Ethylbenzene              | 9.03  | 91  | 20561 | 0.360 ug/L   | 98  |
| 55) m,p-xylene                | 9.16  | 106 | 76113 | 3.538 ug/L   | 97  |
| 56) o-xylene                  | 9.57  | 106 | 4364  | 0.209 ug/L   | 89  |
| 58) Isopropylbenzene          | 9.95  | 105 | 7395  | 0.128 ug/L   | 97  |
| 70) Naphthalene               | 13.53 | 128 | 13036 | 0.488 ug/L   | 98  |

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Operator : SY/MD  
Sample : L3395-16DL 5X  
Misc : 25.0mL/MSVOA V/WATER  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

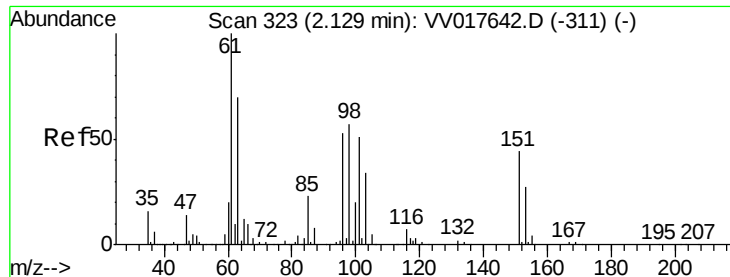
Quant Time: Jul 25 00:11:15 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR072320WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Jul 25 00:05:26 2020  
Response via : Initial Calibration

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

|       |  |  |  |  |  |  |
|-------|--|--|--|--|--|--|
| ----- |  |  |  |  |  |  |
| ----- |  |  |  |  |  |  |

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





#12

1,1-Dichloroethene

Concen: 0.090 ug/L

RT: 2.14 min Scan# 325

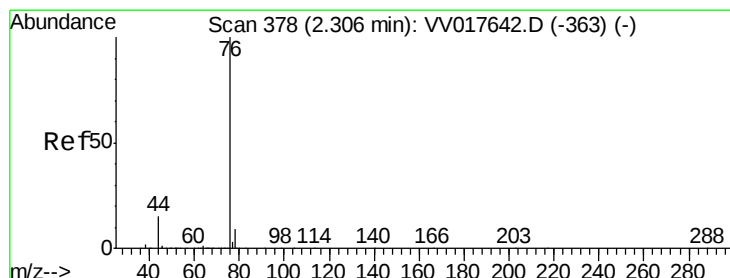
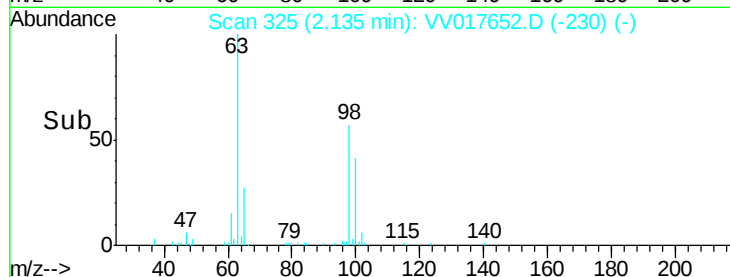
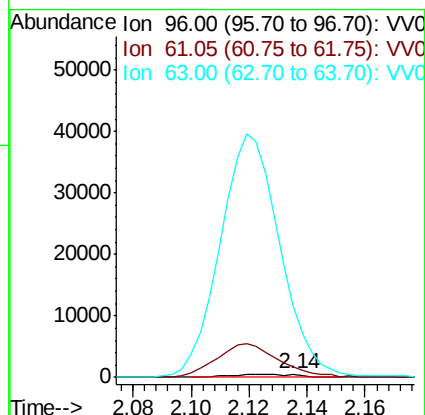
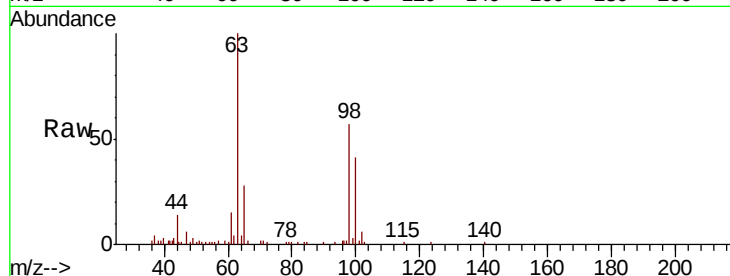
Delta R.T. 0.01 min

Lab File: VV017652.D

Acq: 24 Jul 2020 18:12

Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 96 Resp: 828  
Ion Ratio Lower Upper  
96 100  
61 324.2 123.1 228.7#  
63 2189.0 91.2 169.4#



#14

Carbon disulfide

Concen: 0.058 ug/L

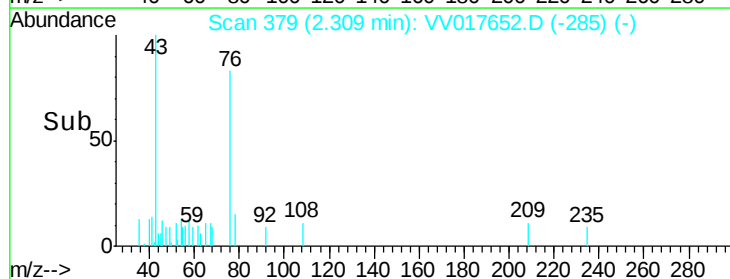
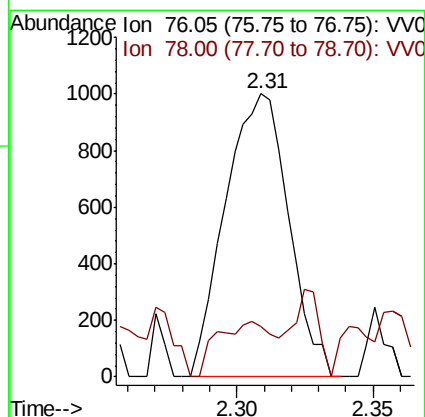
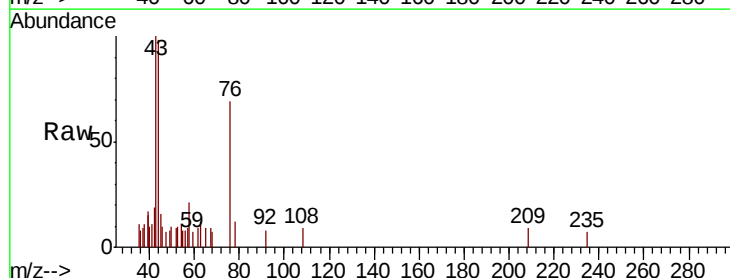
RT: 2.31 min Scan# 379

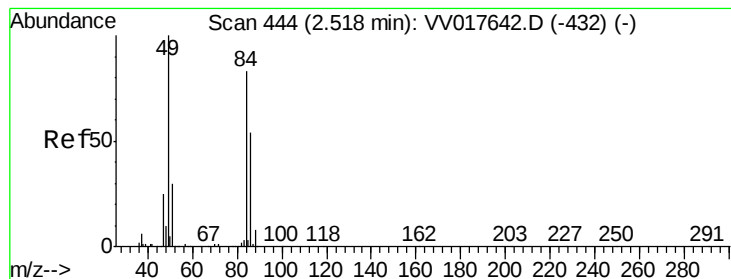
Delta R.T. 0.00 min

Lab File: VV017652.D

Acq: 24 Jul 2020 18:12

Tgt Ion: 76 Resp: 1609  
Ion Ratio Lower Upper  
76 100  
78 17.8 6.6 10.0#





#16

Methvlene chloride

Concen: 0.442 ug/L

RT: 2.52 min Scan# 445

Delta R.T. 0.00 min

Lab File: VV017652.D

Acq: 24 Jul 2020 18:12

Instrument :

MSVOA\_V

ClientSampleId :

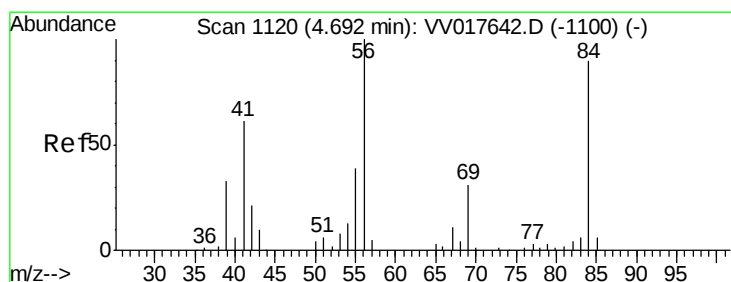
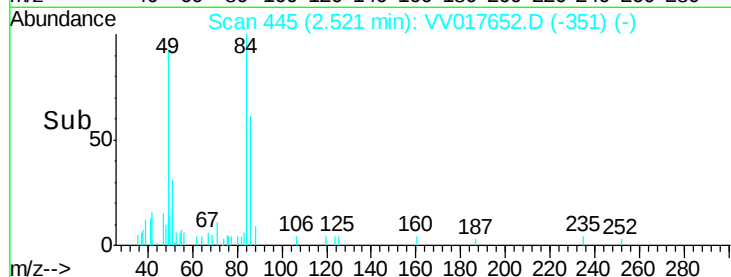
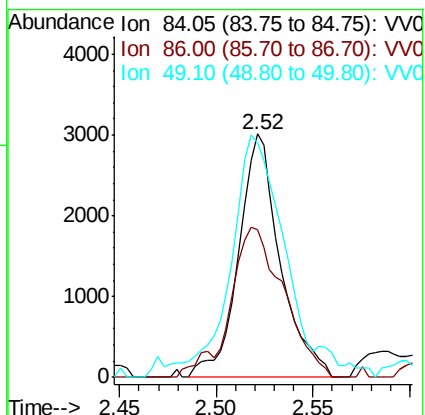
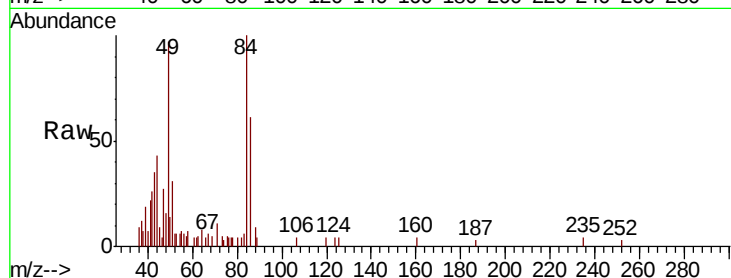
Tot Ion: 84 Resp: 4516

Ion Ratio Lower Upper

84 100

86 60.8 46.5 86.3

49 96.6 79.2 147.2



#30

Cyclohexane

Concen: 0.254 ug/L

RT: 4.70 min Scan# 1122

Delta R.T. 0.01 min

Lab File: VV017652.D

Acq: 24 Jul 2020 18:12

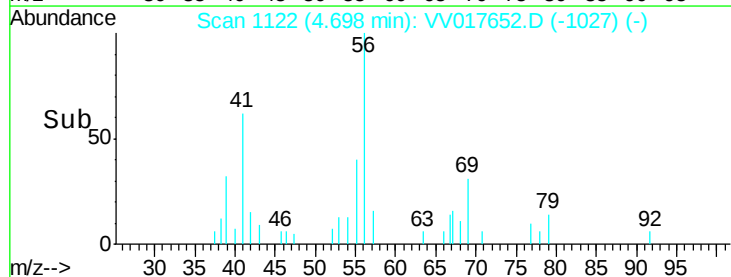
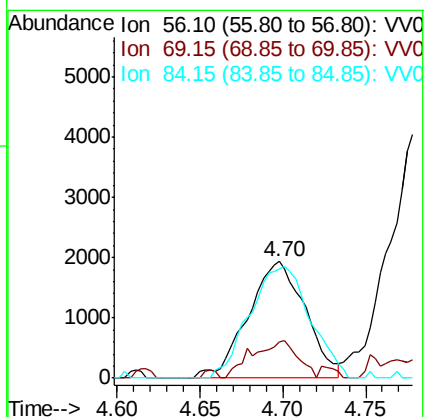
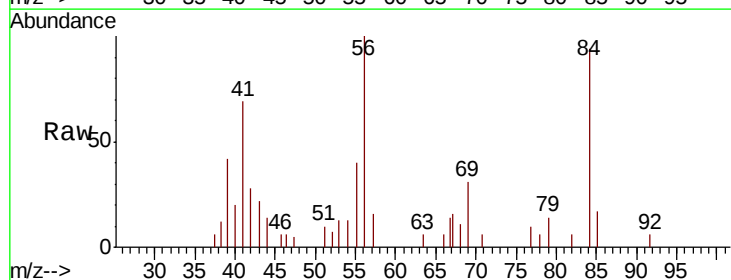
Tgt Ion: 56 Resp: 4652

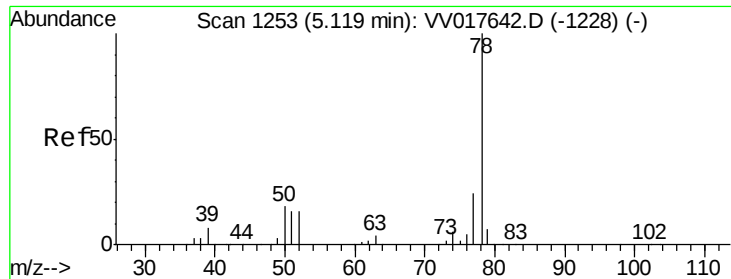
Ion Ratio Lower Upper

56 100

69 25.4 25.4 38.2#

84 100.8 73.0 109.4

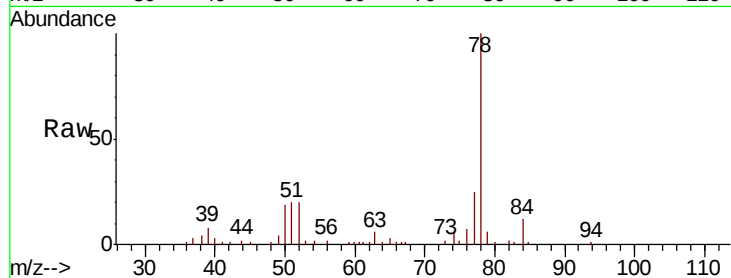




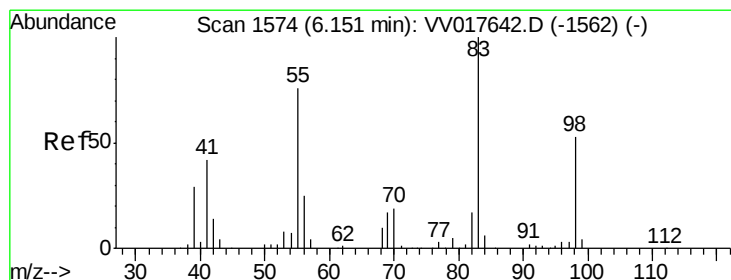
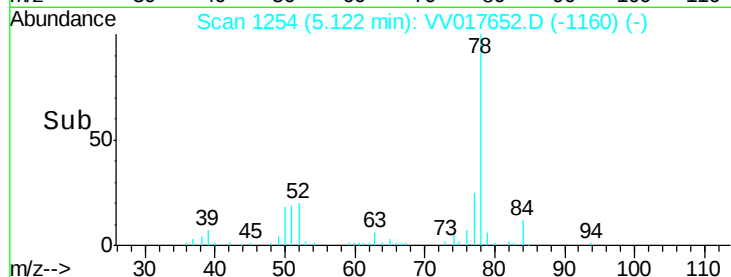
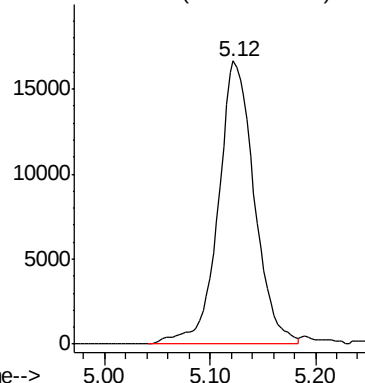
#33  
Benzene  
Concen: 0.849 ug/L  
RT: 5.12 min Scan# 1254  
Delta R.T. 0.00 min  
Lab File: VV017652.D  
Acq: 24 Jul 2020 18:12

Instrument :  
MSVOA\_V  
ClientSampled :

Tgt Ion: 78 Resp: 39701

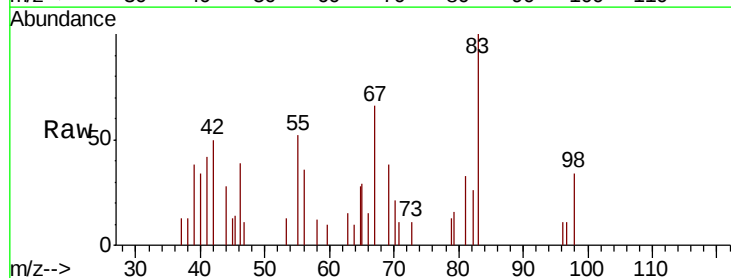


Abundance Ion 78.10 (77.80 to 78.80): VV0



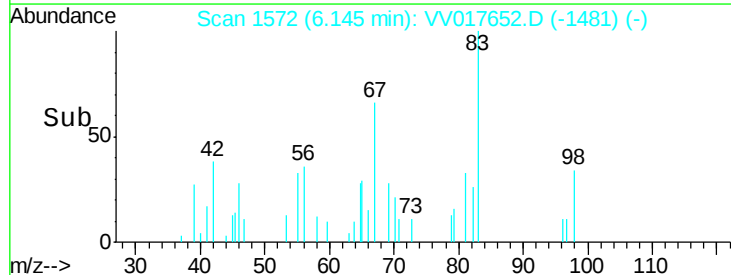
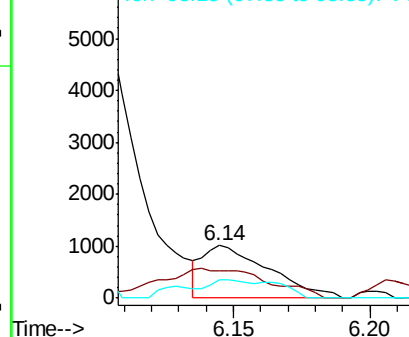
#35  
Methylcyclohexane  
Concen: 0.085 ug/L  
RT: 6.14 min Scan# 1572  
Delta R.T. -0.01 min  
Lab File: VV017652.D  
Acq: 24 Jul 2020 18:12

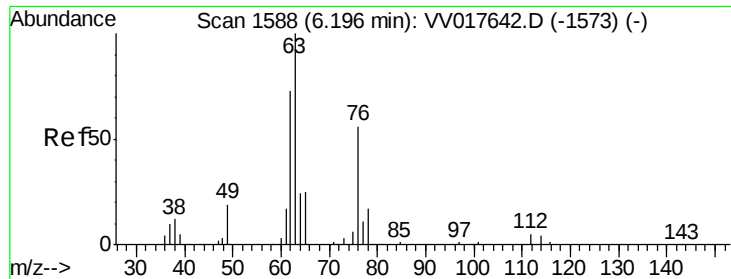
Tgt Ion: 83 Resp: 1682  
Ion Ratio Lower Upper  
83 100  
55 91.4 61.8 92.8  
98 37.5 39.0 58.6#



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

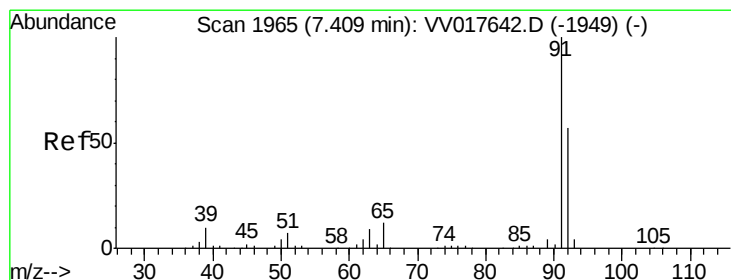
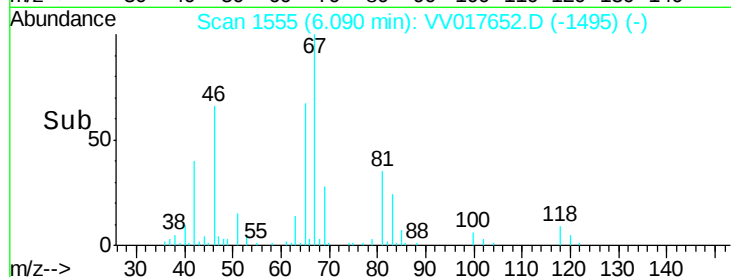
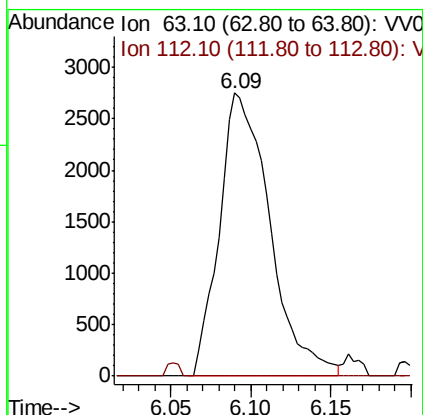
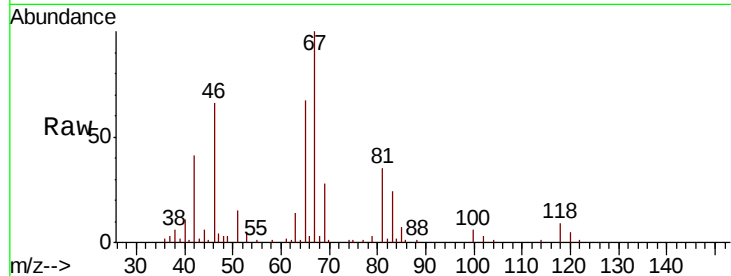




#37  
 1,2-Dichloropropane  
 Concen: 0.540 ug/L  
 RT: 6.09 min Scan# 1555  
 Delta R.T. -0.11 min  
 Lab File: VV017652.D  
 Acq: 24 Jul 2020 18:12

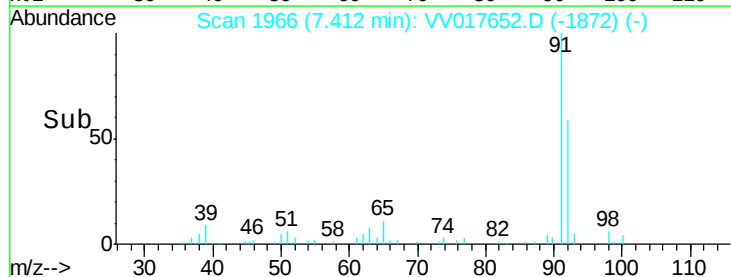
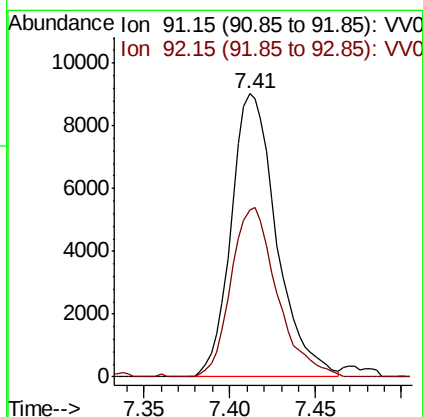
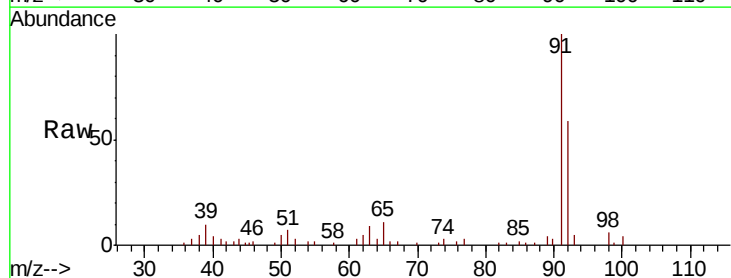
Instrument :  
 MSVOA\_V  
 ClientSampleId :

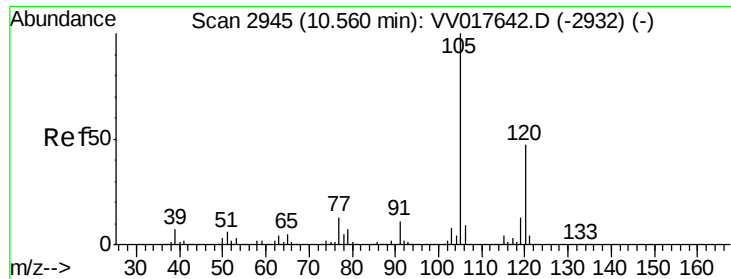
Tot Ion: 63 Resp: 5936  
 Ion Ratio Lower Upper  
 63 100  
 112 1.2 4.5 6.7#



#42  
 Toluene  
 Concen: 0.326 ug/L  
 RT: 7.41 min Scan# 1966  
 Delta R.T. 0.00 min  
 Lab File: VV017652.D  
 Acq: 24 Jul 2020 18:12

Tgt Ion: 91 Resp: 16611  
 Ion Ratio Lower Upper  
 91 100  
 92 58.8 40.8 75.8

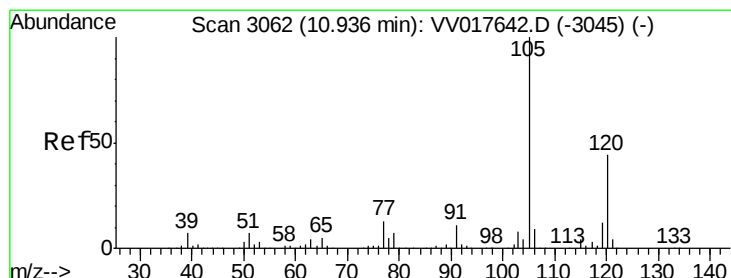
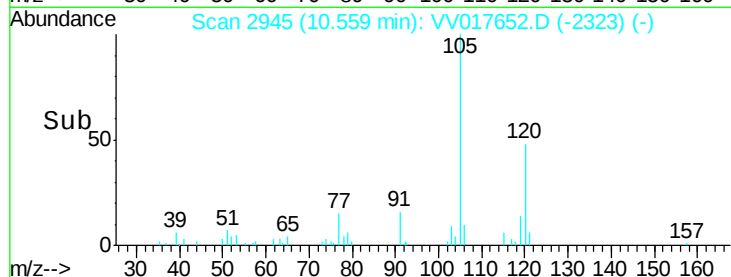
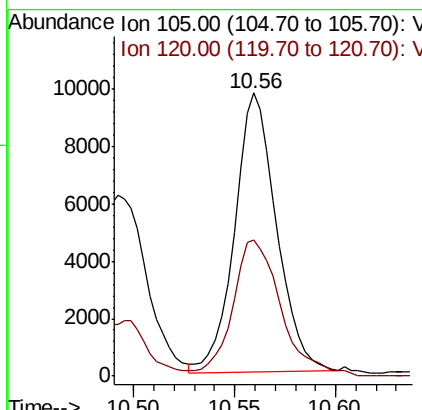
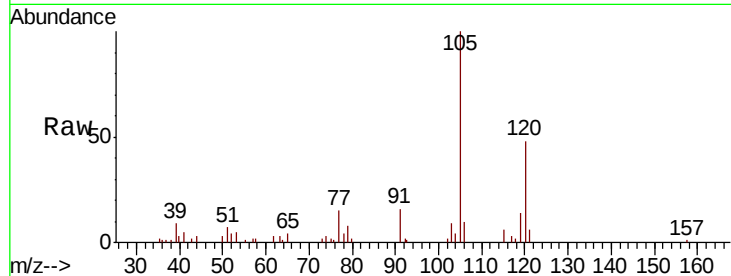




#43  
 1,3,5-Trimethylbenzene  
 Concen: 0.297 ug/L  
 RT: 10.56 min Scan# 2945  
 Delta R.T. -0.00 min  
 Lab File: VV017652.D  
 Acq: 24 Jul 2020 18:12

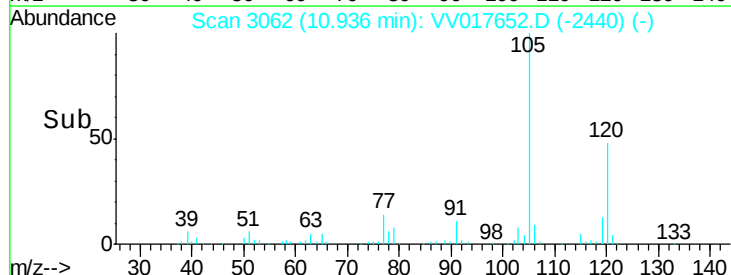
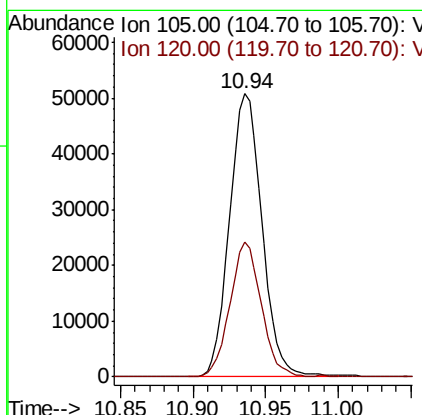
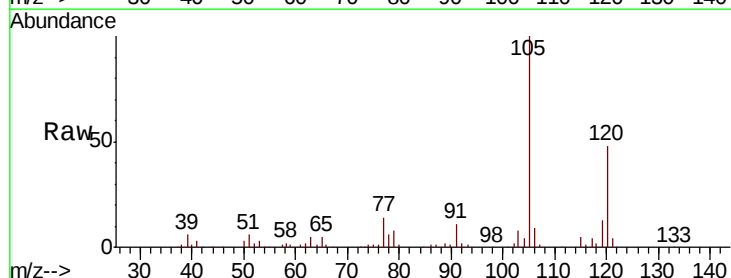
Instrument :  
 MSVOA\_V  
 ClientSampleId :

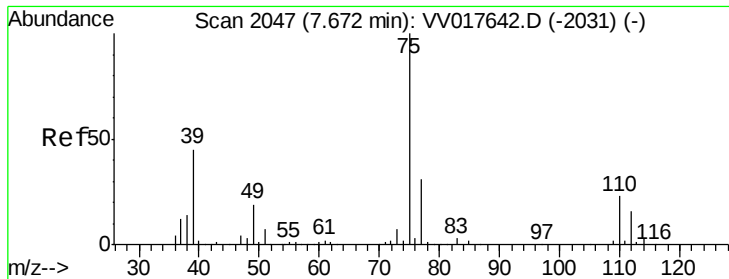
Tot Ion:105 Resp: 14133  
 Ion Ratio Lower Upper  
 105 100  
 120 56.3 39.4 59.2



#44  
 1,2,4-Trimethylbenzene  
 Concen: 1.622 ug/L  
 RT: 10.94 min Scan# 3062  
 Delta R.T. -0.00 min  
 Lab File: VV017652.D  
 Acq: 24 Jul 2020 18:12

Tgt Ion:105 Resp: 78966  
 Ion Ratio Lower Upper  
 105 100  
 120 45.8 35.9 53.9

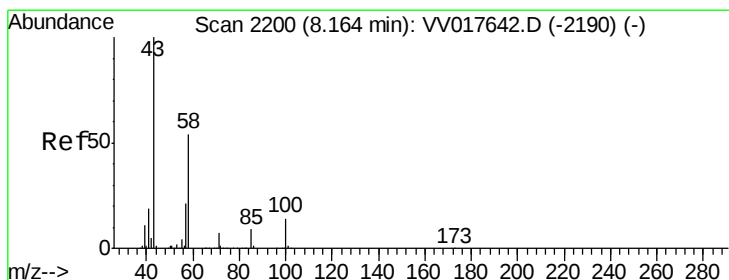
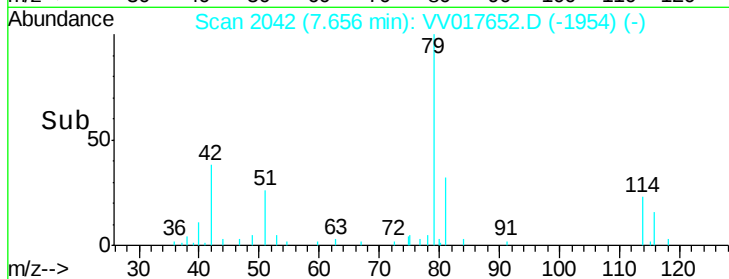
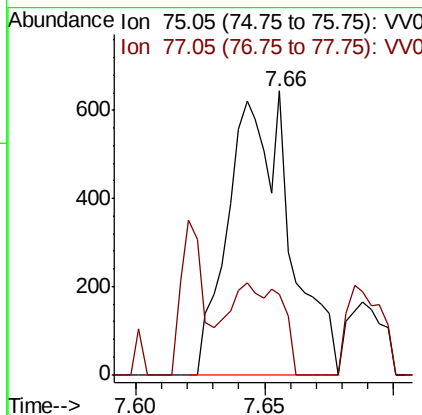
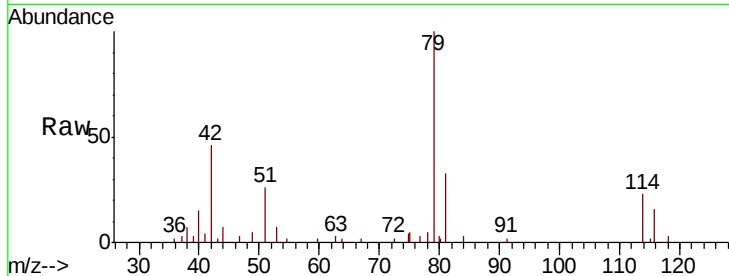




#46  
trans-1,3-Dichloropropene  
Concen: 0.070 ug/L  
RT: 7.66 min Scan# 2042  
Delta R.T. -0.02 min  
Lab File: VV017652.D  
Acq: 24 Jul 2020 18:12

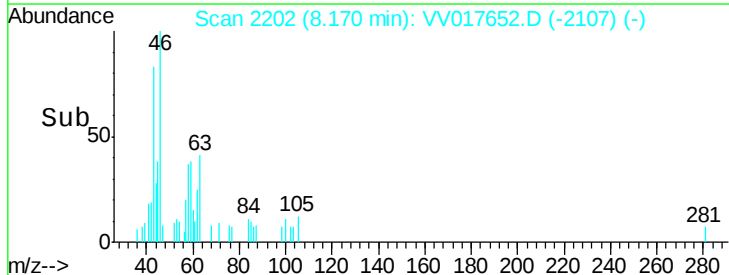
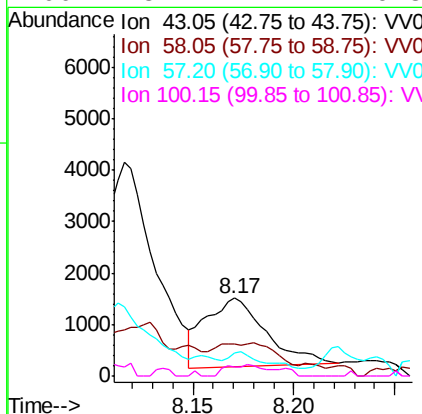
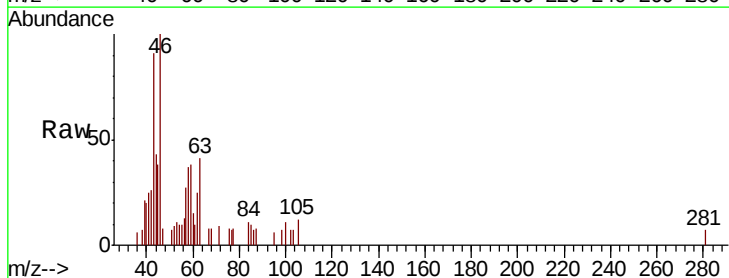
Instrument :  
MSVOA\_V  
ClientSampleId :

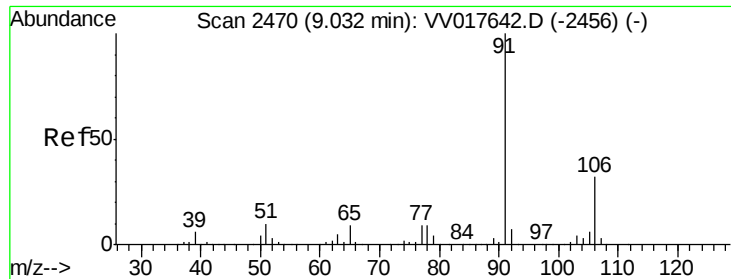
Tot Ion: 75 Resp: 1046  
Ion Ratio Lower Upper  
75 100  
77 28.1 22.5 41.7



#50  
2-Hexanone  
Concen: 0.644 ug/L  
RT: 8.17 min Scan# 2202  
Delta R.T. 0.01 min  
Lab File: VV017652.D  
Acq: 24 Jul 2020 18:12

Tgt Ion: 43 Resp: 2747  
Ion Ratio Lower Upper  
43 100  
58 4.2 41.6 62.4#  
57 25.3 15.4 23.0#  
100 5.1 11.2 16.8#

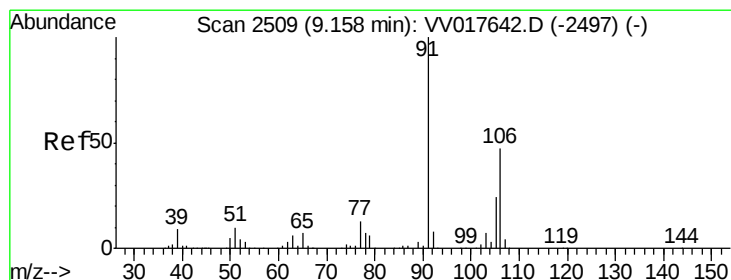
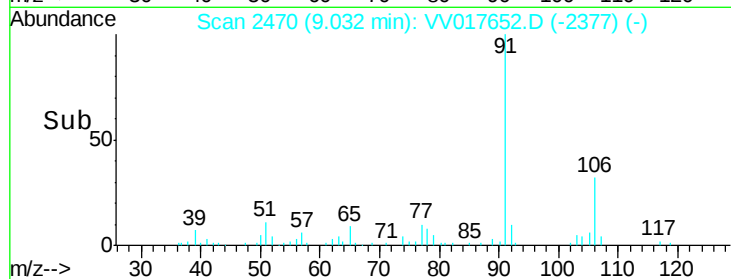
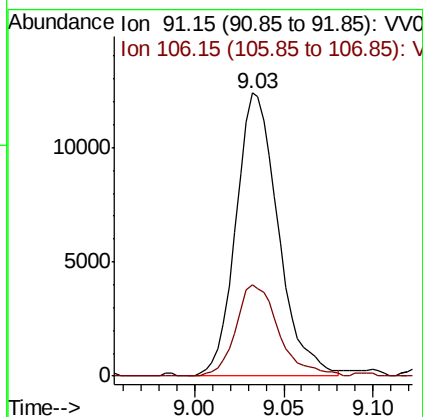
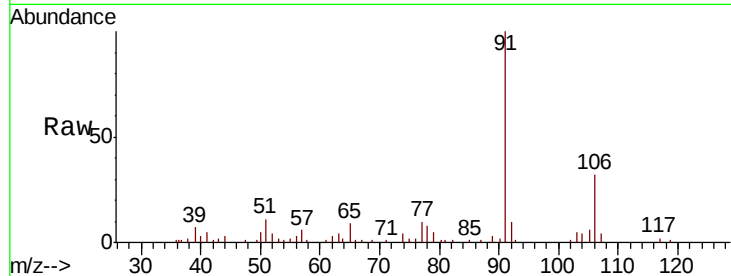




#54  
Ethylbenzene  
Concen: 0.360 ug/L  
RT: 9.03 min Scan# 2470  
Delta R.T. -0.00 min  
Lab File: VV017652.D  
Acq: 24 Jul 2020 18:12

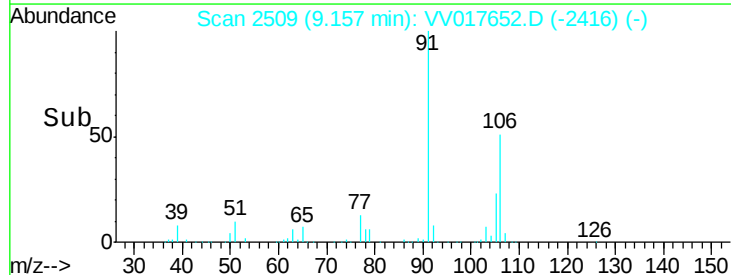
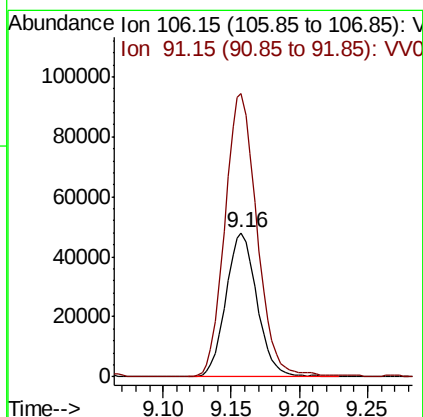
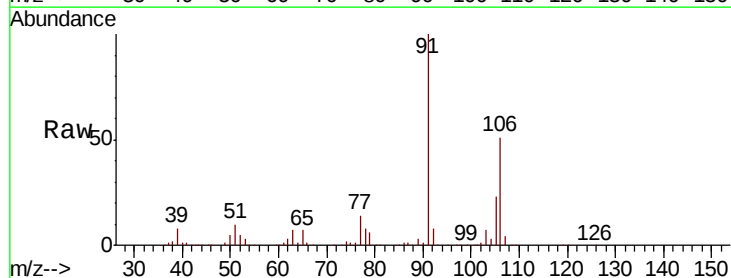
Instrument :  
MSVOA\_V  
ClientSampled :

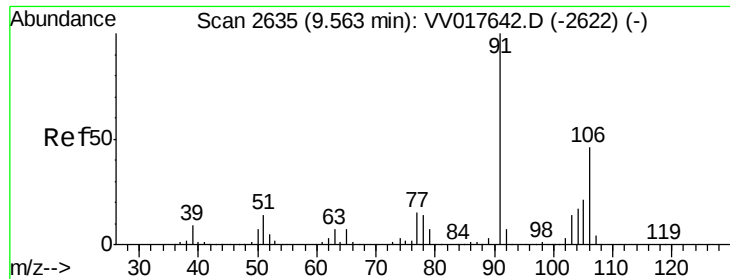
Tot Ion: 91 Resp: 20561  
Ion Ratio Lower Upper  
91 100  
106 32.1 21.6 40.2



#55  
m,p-xylene  
Concen: 3.538 ug/L  
RT: 9.16 min Scan# 2509  
Delta R.T. -0.00 min  
Lab File: VV017652.D  
Acq: 24 Jul 2020 18:12

Tgt Ion: 106 Resp: 76113  
Ion Ratio Lower Upper  
106 100  
91 196.8 141.3 262.3

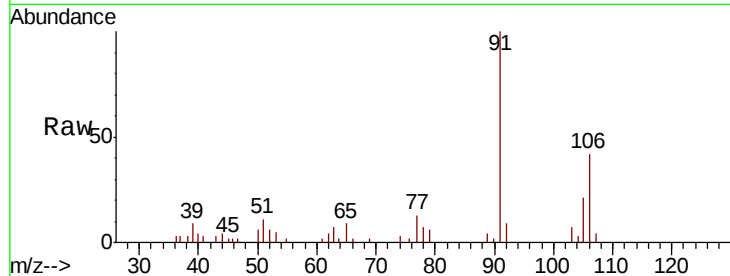




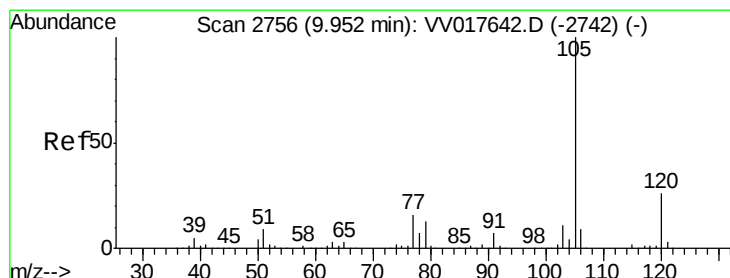
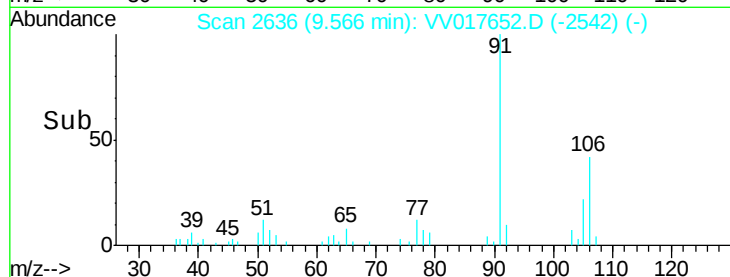
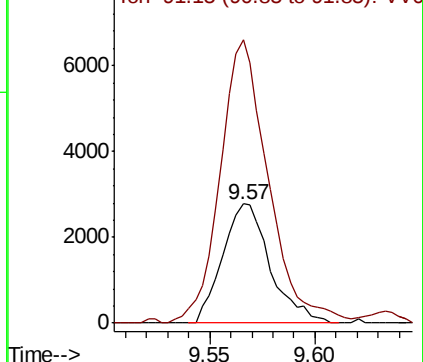
#56  
o-xylene  
Concen: 0.209 ug/L  
RT: 9.57 min Scan# 2636  
Delta R.T. 0.00 min  
Lab File: VV017652.D  
Acq: 24 Jul 2020 18:12

Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion:106 Resp: 4364  
Ion Ratio Lower Upper  
106 100  
91 237.2 153.9 285.7

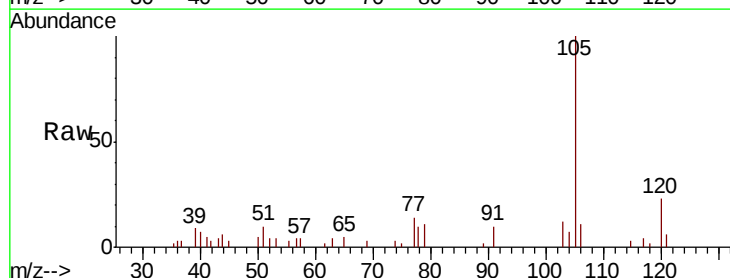


Abundance Ion 106.15 (105.85 to 106.85): V  
Ion 91.15 (90.85 to 91.85): VV0

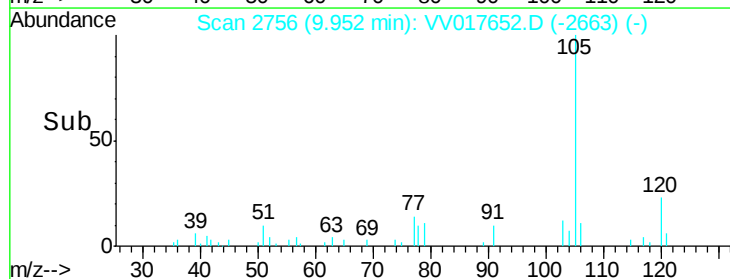
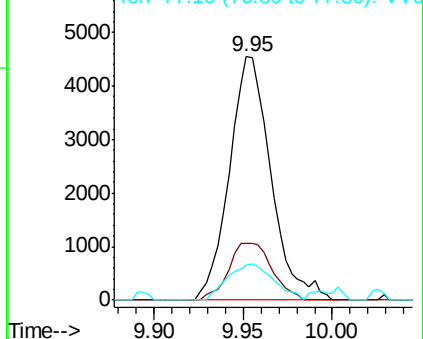


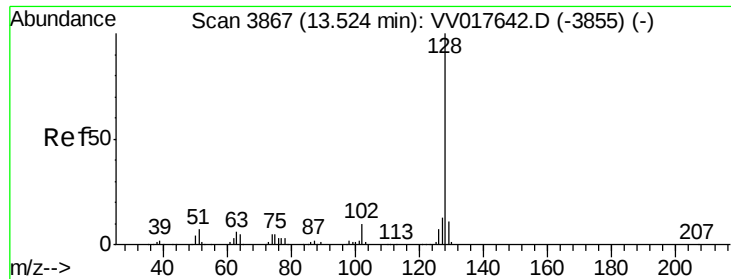
#58  
Isopropylbenzene  
Concen: 0.128 ug/L  
RT: 9.95 min Scan# 2756  
Delta R.T. -0.00 min  
Lab File: VV017652.D  
Acq: 24 Jul 2020 18:12

Tgt Ion:105 Resp: 7395  
Ion Ratio Lower Upper  
105 100  
120 24.3 21.1 31.7  
77 16.5 13.0 19.6



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





#70  
Naphthalene  
Concen: 0.488 ug/L  
RT: 13.53 min Scan# 3869  
Delta R.T. 0.01 min  
Lab File: VV017652.D  
Acq: 24 Jul 2020 18:12

Instrument :  
MSVOA\_V  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.2  | 9.1   | 13.7  |
| 127     | 15.1  | 11.0  | 16.6  |

