

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD030320\  
 Data File : VD065397.D  
 Acq On : 03 Mar 2020 16:31  
 Operator : VA/SY  
 Sample : L1775-01  
 Misc : 7.71G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

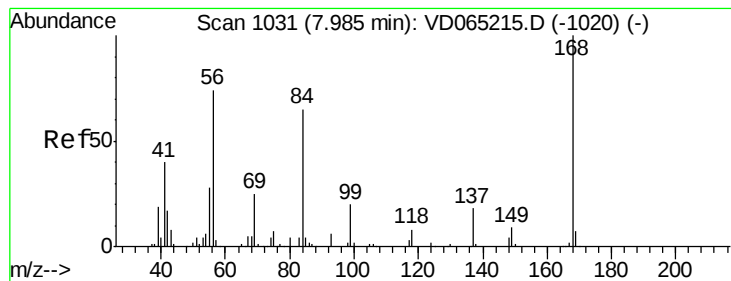
Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Mar 04 04:53:33 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D021820S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 19 03:26:54 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.   | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|--------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.98   | 168  | 542614   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.87   | 114  | 928113   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.65  | 117  | 848090   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.58  | 152  | 385904   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |        |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.34   | 65   | 272045   | 55.73     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 111.46% |          |
| 35) Dibromofluoromethane       | 7.92   | 113  | 293713   | 51.90     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 103.80% |          |
| 50) Toluene-d8                 | 10.34  | 98   | 1129723  | 52.22     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 104.44% |          |
| 62) 4-Bromofluorobenzene       | 12.64  | 95   | 341281   | 49.80     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 99.60%  |          |
| Target Compounds               |        |      |          |           |         |          |
|                                |        |      |          |           | Qvalue  |          |
| 13) Acrolein                   | 3.66   | 56   | 140      | Below Cal | #       | 14       |
| 20) Methylene Chloride         | 4.97   | 84   | 10781    | Below Cal | #       | 90       |
| 31) Cyclohexane                | 7.99   | 56   | 10699    | 1.115     | ug/l #  | 1        |
| 36) 1,1-Dichloropropene        | 7.98   | 75   | 38916    | 4.309     | ug/l #  | 50       |
| 38) Carbon Tetrachloride       | 7.98   | 117  | 48966    | 5.326     | ug/l #  | 17       |
| 51) 4-Methyl-2-Pentanone       | 10.34  | 43   | 4474     | 1.283     | ug/l #  | 1        |
| 76) 1,2,3-Trichloropropane     | 12.64  | 75   | 163254   | 49.721    | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.64  | 75   | 163254   | 107.357   | ug/l #  | 11       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065397.D

Acq: 03 Mar 2020 16:31

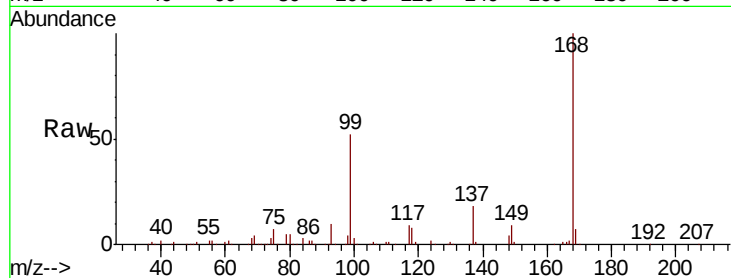
Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:168 Resp: 542614

Ion Ratio Lower Upper

168 100

99 52.1 41.4 62.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

250000

200000

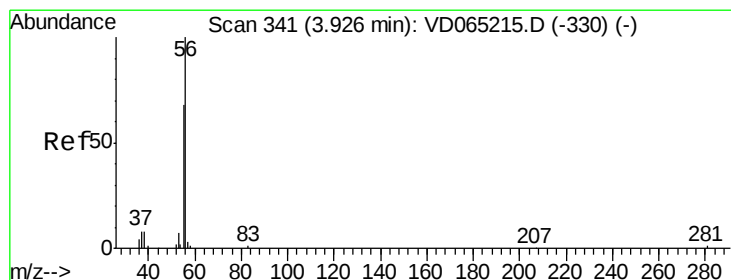
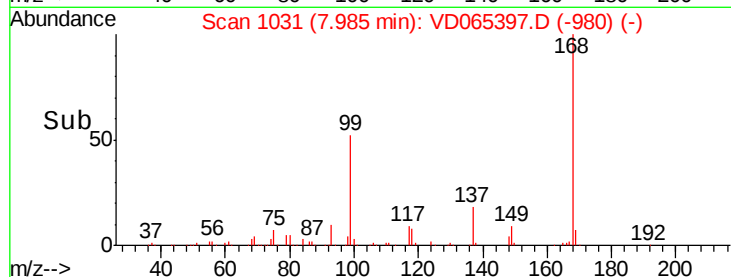
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: Below Cal

RT: 3.66 min Scan# 295

Delta R.T. -0.27 min

Lab File: VD065397.D

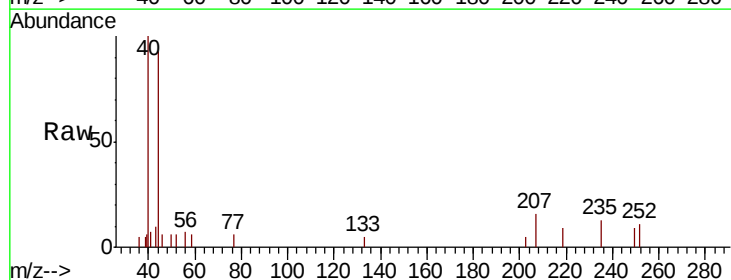
Acq: 03 Mar 2020 16:31

Tgt Ion: 56 Resp: 140

Ion Ratio Lower Upper

56 100

55 0.0 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.66

250

200

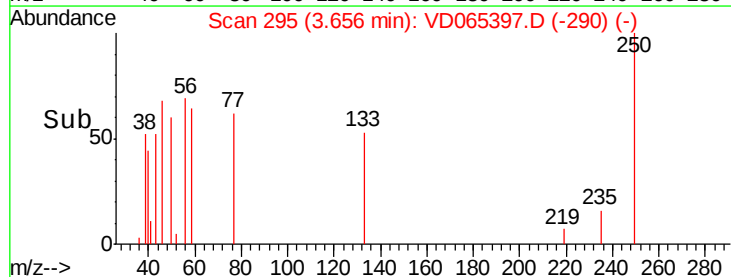
150

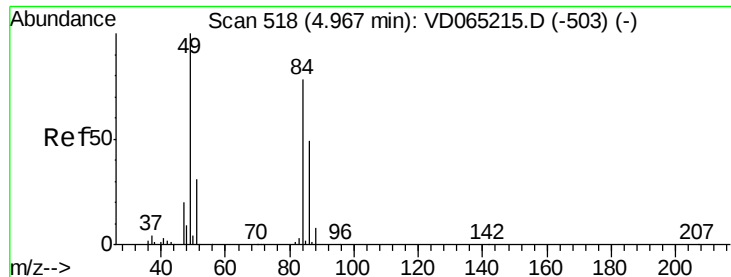
100

50

0

Time-->

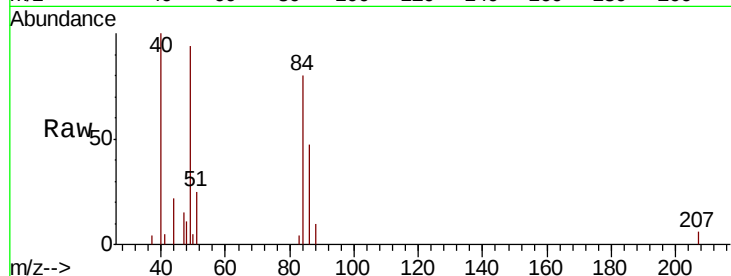




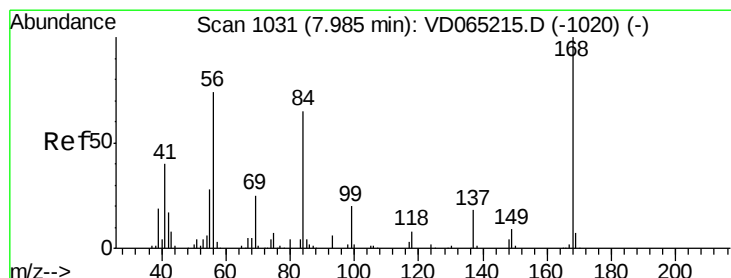
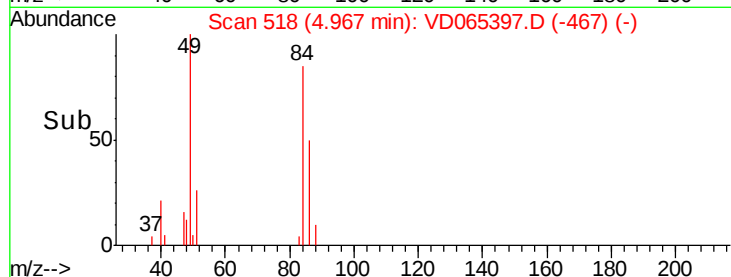
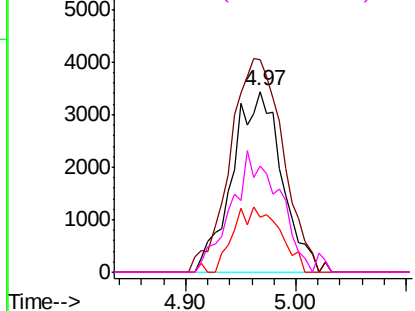
#20  
Methvlene Chloride  
Concen: Below Cal  
RT: 4.97 min Scan# 518  
Delta R.T. 0.00 min  
Lab File: VD065397.D  
Acq: 03 Mar 2020 16:31

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 84 Resp: 10781  
Ion Ratio Lower Upper  
84 100  
49 117.2 103.1 154.7  
51 30.6 31.7 47.5#  
86 58.9 50.9 76.3

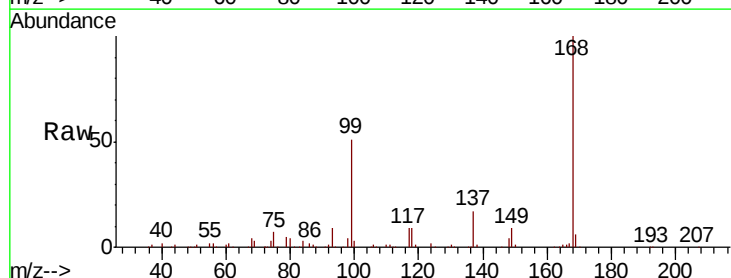


Abundance Ion 83.90 (83.60 to 84.60): VDC  
Ion 48.90 (48.60 to 49.60): VDC  
Ion 50.90 (50.60 to 51.60): VDC  
Ion 85.90 (85.60 to 86.60): VDC

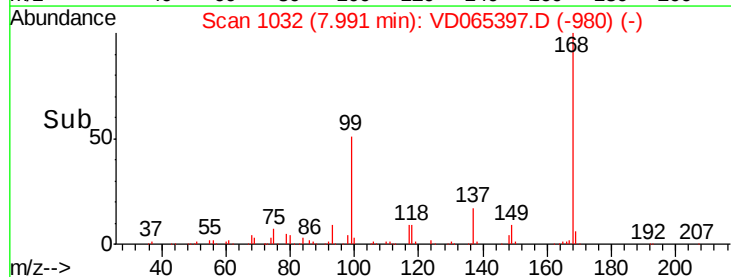
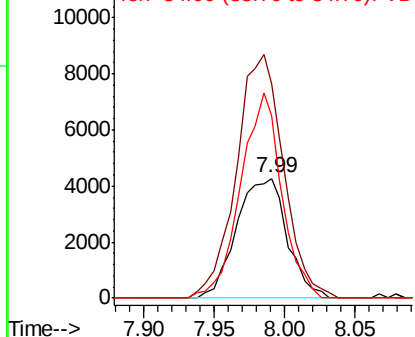


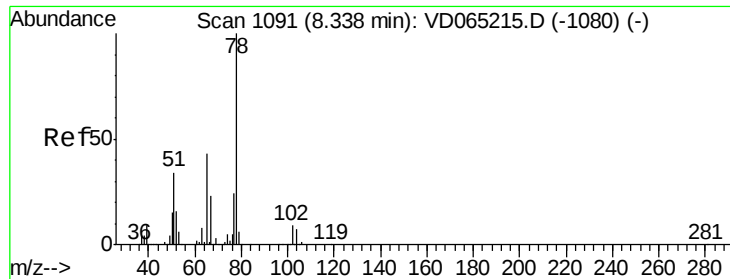
#31  
Cyclohexane  
Concen: 1.115 ug/l  
RT: 7.99 min Scan# 1032  
Delta R.T. 0.01 min  
Lab File: VD065397.D  
Acq: 03 Mar 2020 16:31

Tgt Ion: 56 Resp: 10699  
Ion Ratio Lower Upper  
56 100  
69 179.2 27.4 41.0#  
84 152.4 71.1 106.7#



Abundance Ion 56.00 (55.70 to 56.70): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.00 (83.70 to 84.70): VDC

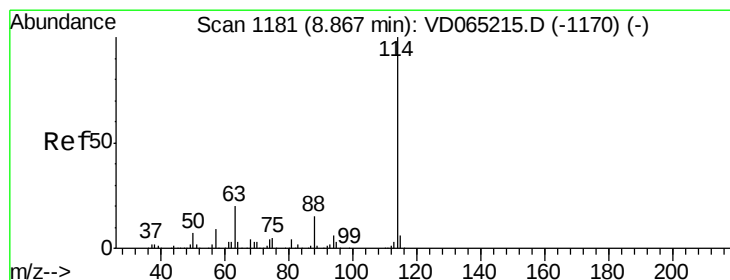
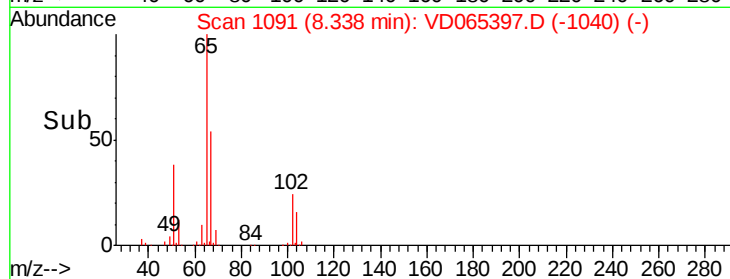
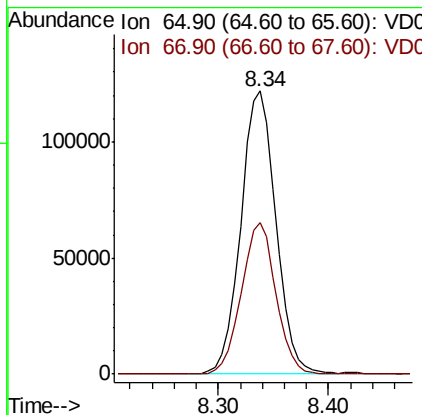
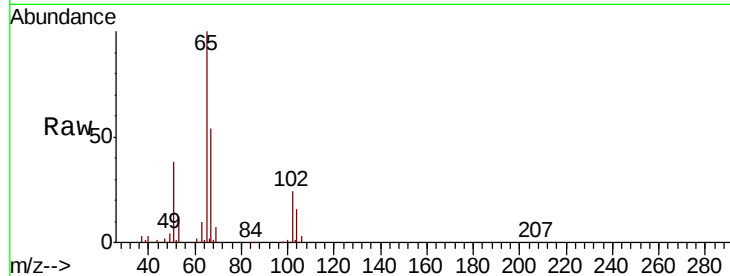




#33  
 1,2-Dichloroethane-d4  
 Concen: 55.731 ug/l  
 RT: 8.34 min Scan# 1091  
 Delta R.T. 0.00 min  
 Lab File: VD065397.D  
 Acq: 03 Mar 2020 16:31

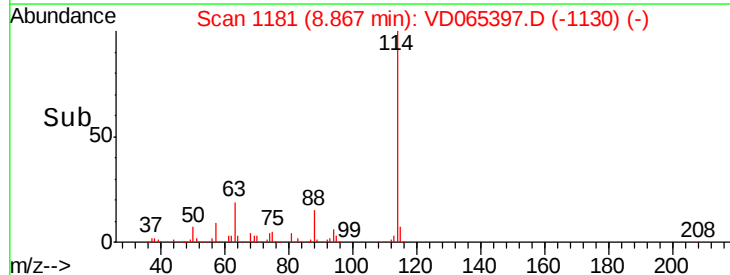
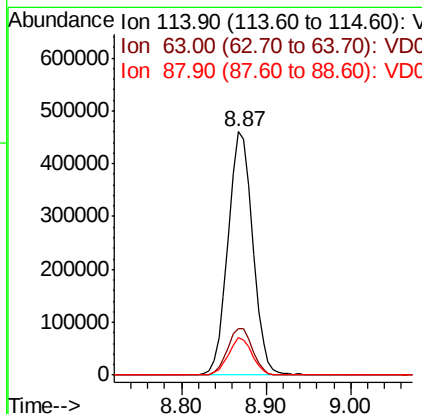
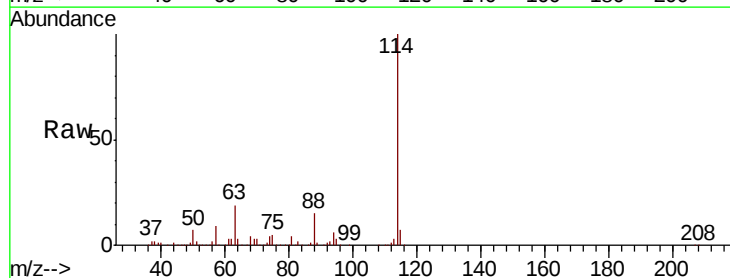
Instrument :  
 MSVOA\_D  
 ClientSampled :

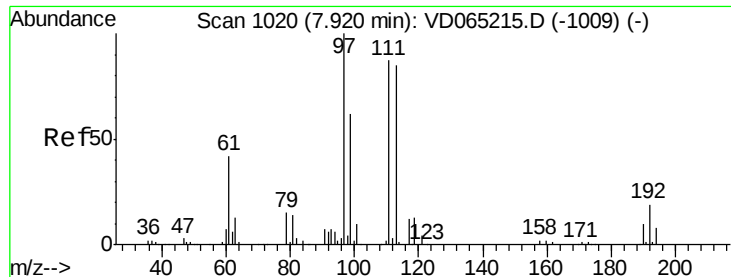
Tot Ion: 65 Resp: 272045  
 Ion Ratio Lower Upper  
 65 100  
 67 53.1 0.0 106.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. 0.00 min  
 Lab File: VD065397.D  
 Acq: 03 Mar 2020 16:31

Tgt Ion: 114 Resp: 928113  
 Ion Ratio Lower Upper  
 114 100  
 63 19.2 0.0 39.4  
 88 15.3 0.0 30.4

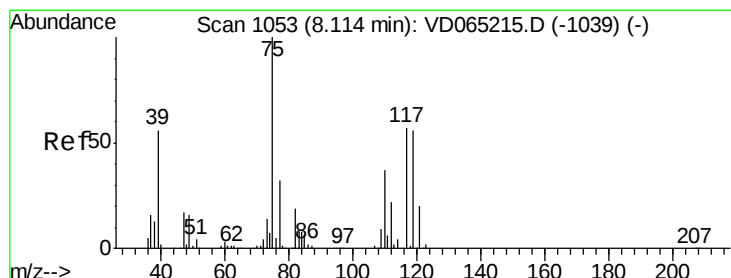
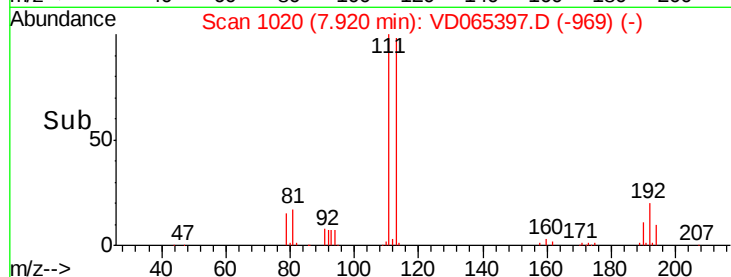
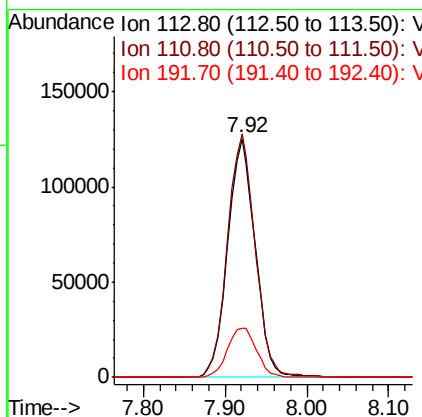
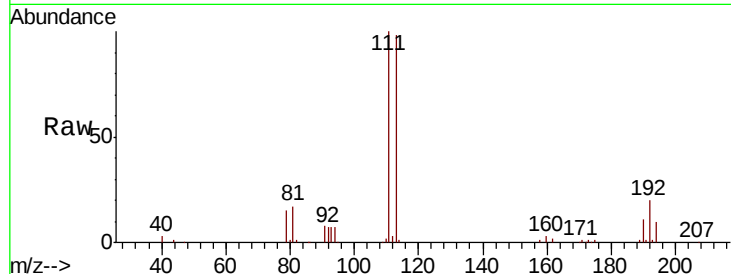




#35  
 Dibromofluoromethane  
 Concen: 51.901 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. 0.00 min  
 Lab File: VD065397.D  
 Acq: 03 Mar 2020 16:31

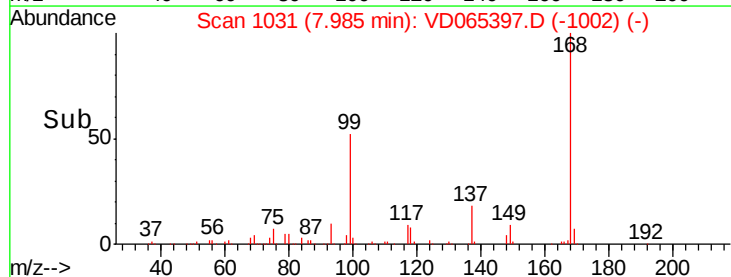
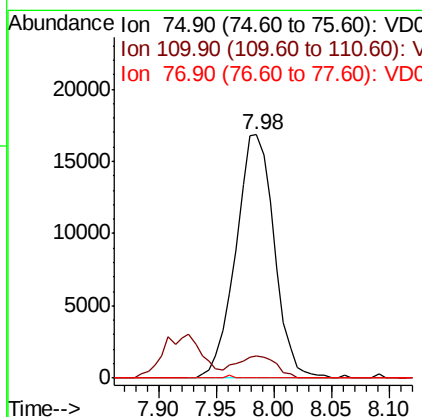
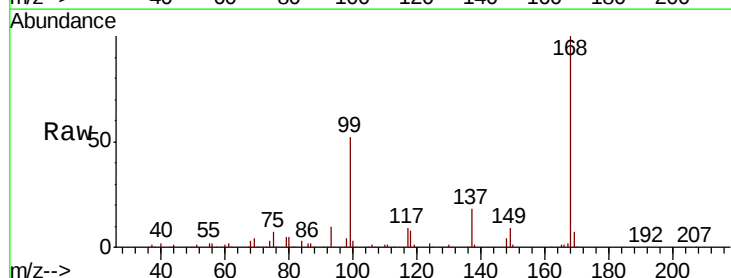
Instrument :  
 MSVOA\_D  
 ClientSampleId :

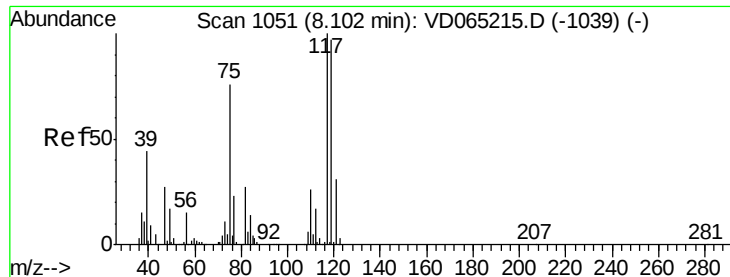
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.8 | 82.9  | 124.3 |
| 192     | 21.8  | 17.3  | 25.9  |



#36  
 1,1-Dichloropropene  
 Concen: 4.309 ug/l  
 RT: 7.98 min Scan# 1031  
 Delta R.T. -0.13 min  
 Lab File: VD065397.D  
 Acq: 03 Mar 2020 16:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.5   | 17.9  | 53.7# |
| 77      | 0.0   | 25.1  | 37.7# |

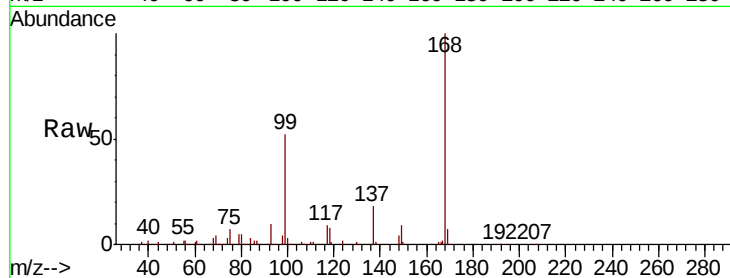




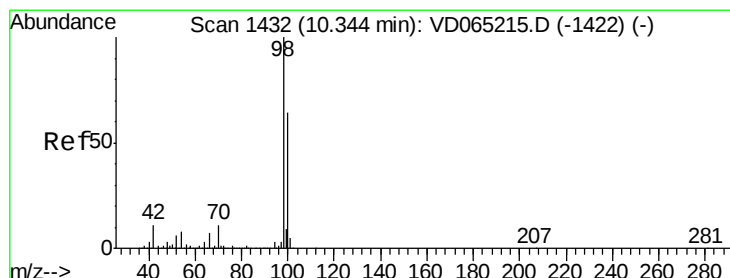
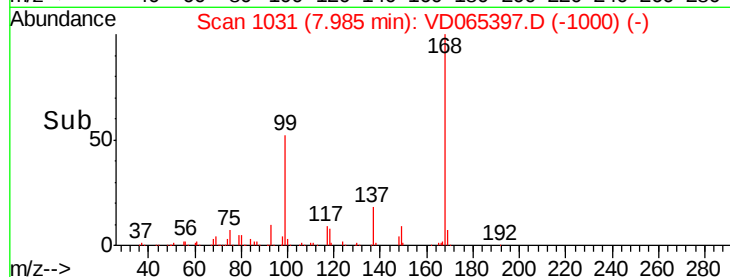
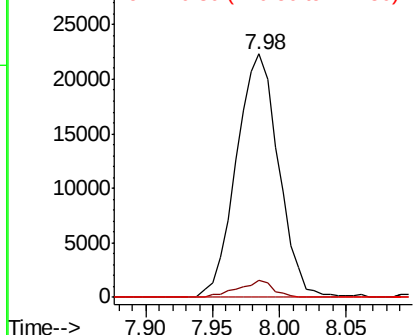
#38  
Carbon Tetrachloride  
Concen: 5.326 ug/l  
RT: 7.98 min Scan# 1031  
Delta R.T. -0.12 min  
Lab File: VD065397.D  
Acq: 03 Mar 2020 16:31

Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion:117 Resp: 48966  
Ion Ratio Lower Upper  
117 100  
119 6.9 77.6 116.4#  
121 0.0 24.8 37.2#

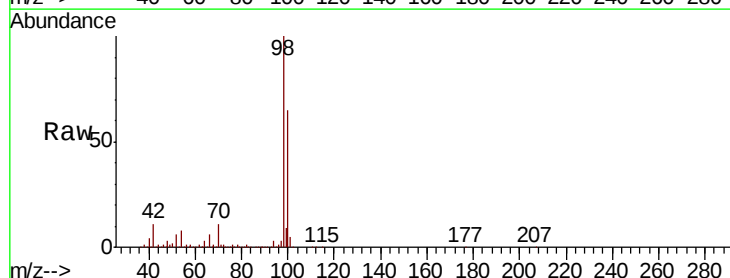


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

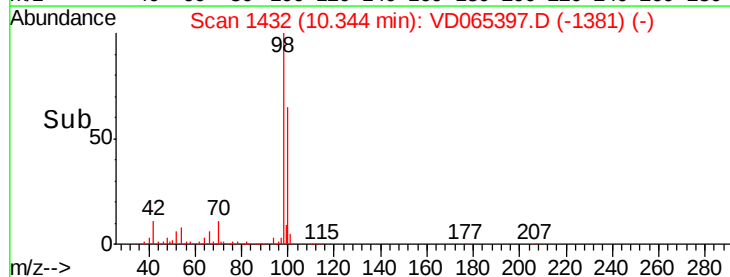
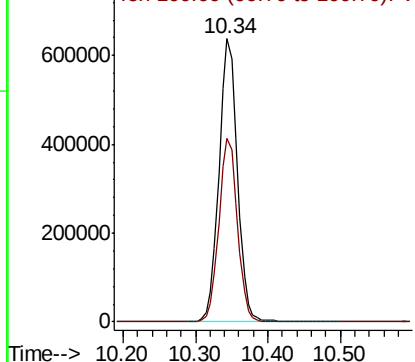


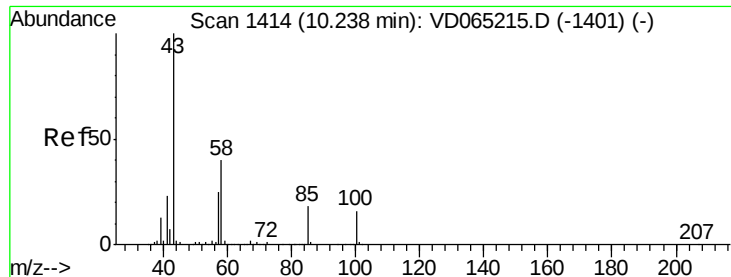
#50  
Toluene-d8  
Concen: 52.219 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. 0.00 min  
Lab File: VD065397.D  
Acq: 03 Mar 2020 16:31

Tgt Ion: 98 Resp: 1129723  
Ion Ratio Lower Upper  
98 100  
100 65.0 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VDC  
Ion 100.00 (99.70 to 100.70): VD





#51

4-Methyl-2-Pentanone

Concen: 1.283 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.11 min

Lab File: VD065397.D

Acq: 03 Mar 2020 16:31

Instrument :

MSVOA\_D

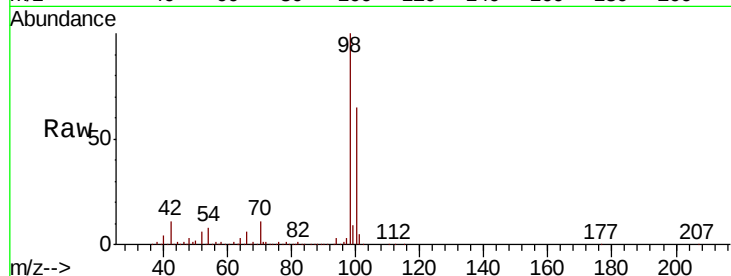
ClientSampleId :

Tot Ion: 43 Resp: 4474

Ion Ratio Lower Upper

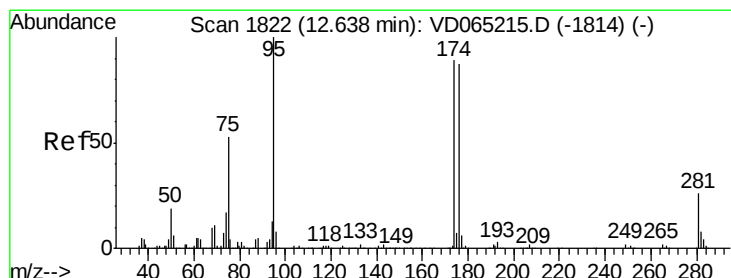
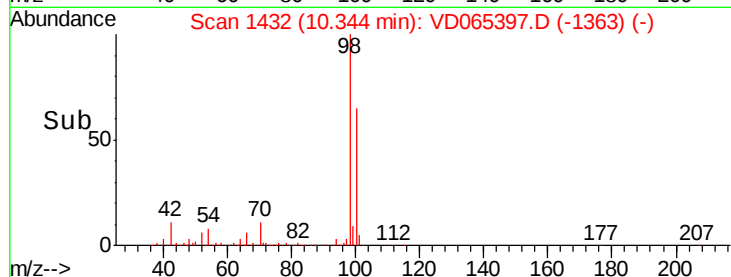
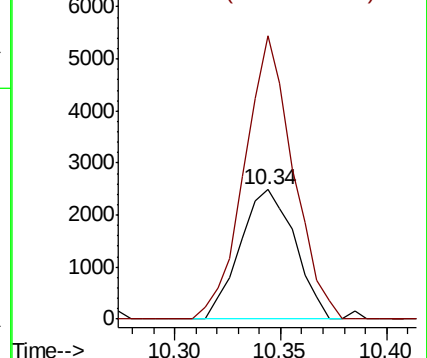
43 100

58 195.8 31.1 46.7#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#62

4-Bromofluorobenzene

Concen: 49.796 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.01 min

Lab File: VD065397.D

Acq: 03 Mar 2020 16:31

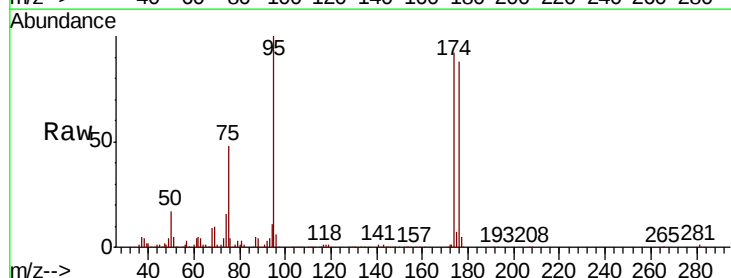
Tgt Ion: 95 Resp: 341281

Ion Ratio Lower Upper

95 100

174 89.8 0.0 178.0

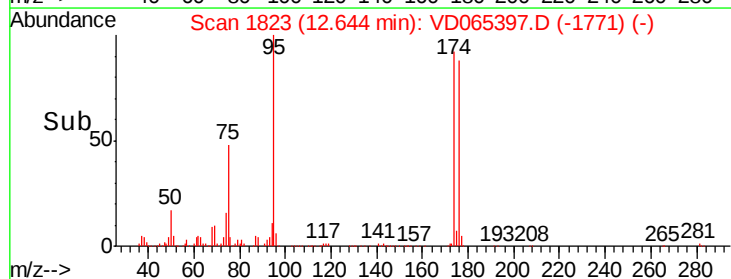
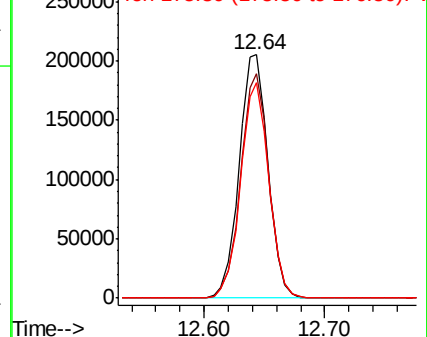
176 86.5 0.0 174.4

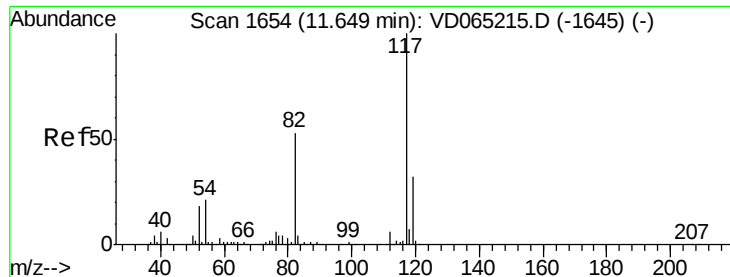


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

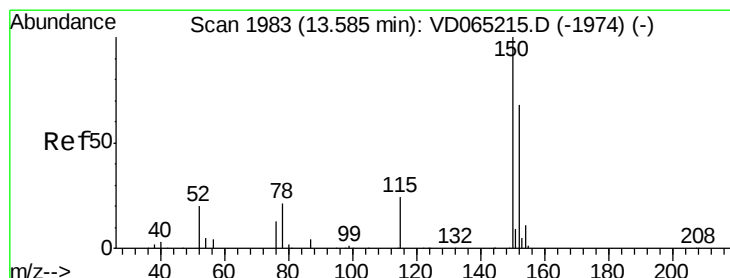
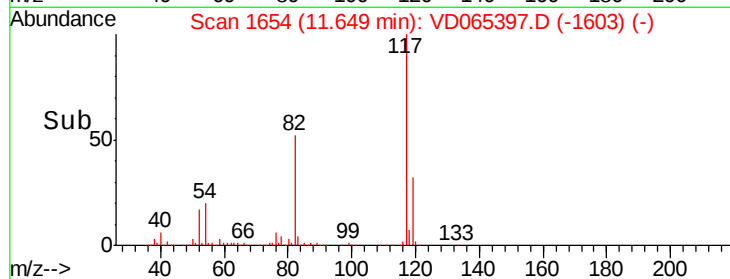
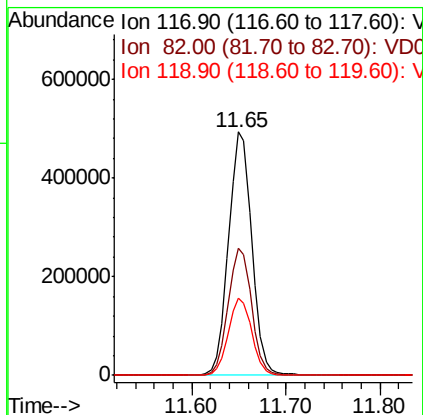
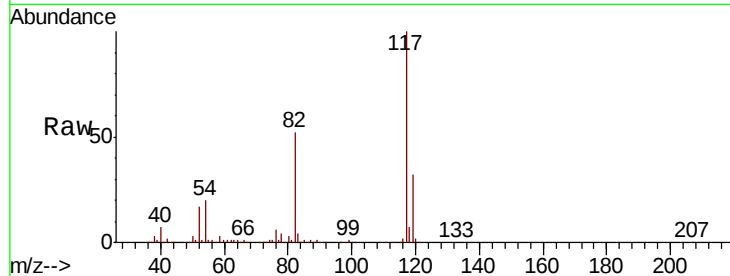




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD065397.D  
Acq: 03 Mar 2020 16:31

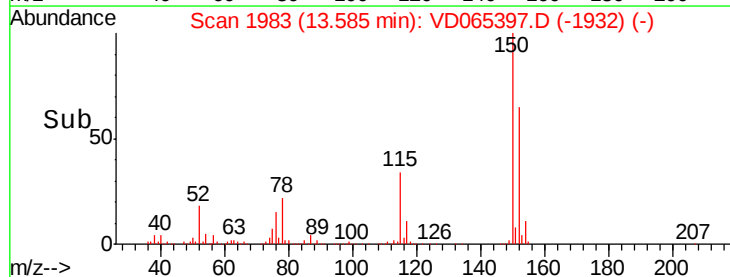
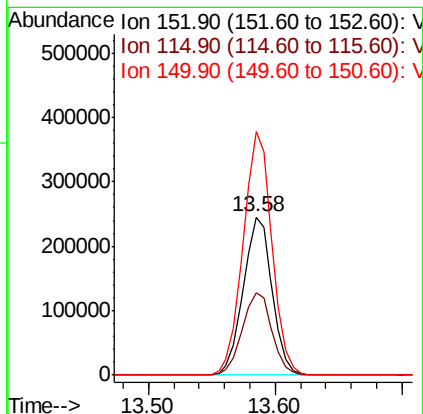
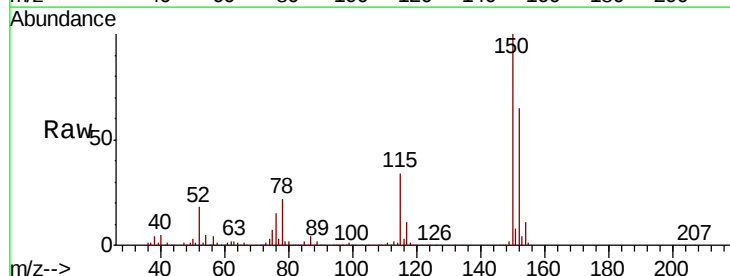
Instrument :  
MSVOA\_D  
ClientSampleId :

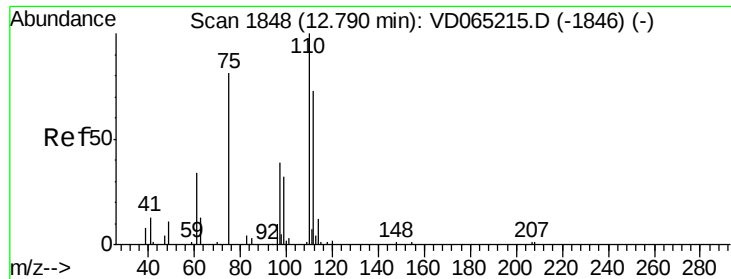
Tot Ion:117 Resp: 848090  
Ion Ratio Lower Upper  
117 100  
82 52.5 42.7 64.1  
119 31.6 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. 0.00 min  
Lab File: VD065397.D  
Acq: 03 Mar 2020 16:31

Tgt Ion:152 Resp: 385904  
Ion Ratio Lower Upper  
152 100  
115 53.8 27.6 82.8  
150 154.2 0.0 347.4

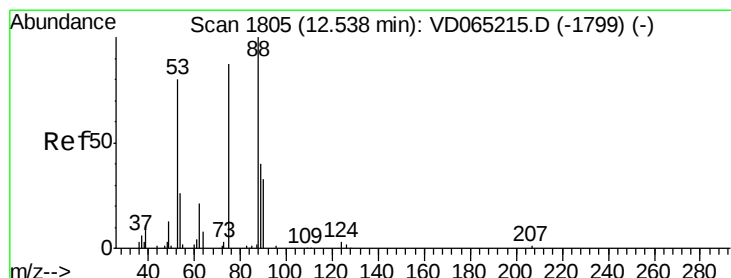
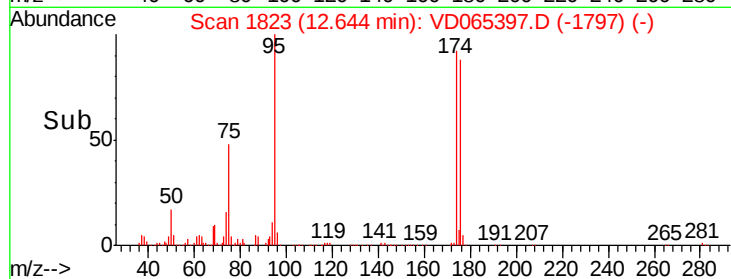
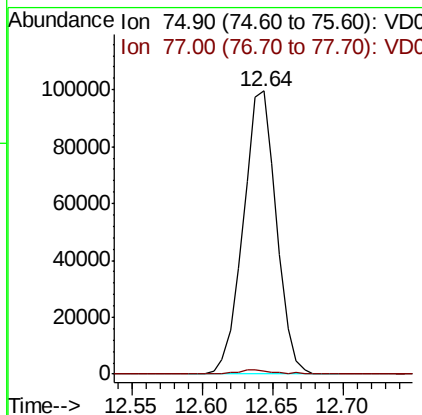
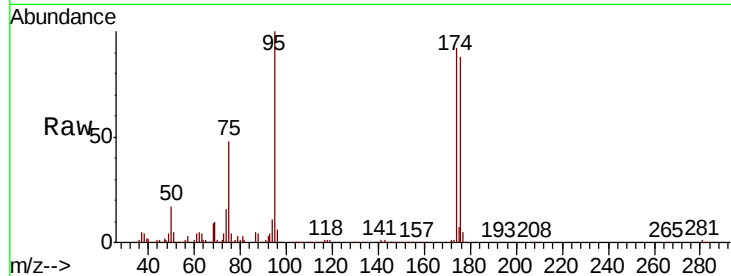




#76  
 1,2,3-Trichloropropane  
 Concen: 49.721 ug/l  
 RT: 12.64 min Scan# 1823  
 Delta R.T. -0.15 min  
 Lab File: VD065397.D  
 Acq: 03 Mar 2020 16:31

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Tot Ion: 75 Resp: 163254  
 Ion Ratio Lower Upper  
 75 100  
 77 1.5 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 107.357 ug/l  
 RT: 12.64 min Scan# 1823  
 Delta R.T. 0.11 min  
 Lab File: VD065397.D  
 Acq: 03 Mar 2020 16:31

Tgt Ion: 75 Resp: 163254  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 77.6 116.4#  
 89 0.0 37.2 55.8#

