# EPA 511 TEST PROGRAM
## Test-to-Test Variability Worksheet

**Customer:** Microlon Corporation
Hazel Crest, IL

| | | | |
|---|---|---|---|
| **Auto/Year:** | **1985 Buick** | **Engine CID:** | **151/4 Cylinder** |
| **Model:** | **Skylark 4-door White** | **Transmission:** | **Auto** |
| **VIN:** | **1G4XB69RSFW415522** | **A/C Equipped:** | **Yes** |
| **Driver:** | **Carl** | **Inertia WT:** | **3000** |
| **Operator:** | **Ray** | **HP ACT/IND:** | **11.3/9.4** |
| **Comments:** | **Microlon Before & After** | **Fuel:** | **Indolene** |

### Baseline Test Date: 8/10/85

| | Hot Start LA-4 Urban Fuel Economy | | | | | | Highway Fuel Economy | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Test Run*** | ***Odometer*** | ***HC*** | ***CO*** | ***CO2*** | ***NOX*** | ***F.E.*** | **Odometer** | ***HC*** | ***CO*** | ***CO2*** | ***NOX*** | ***F.E.*** |
| 1 | 13156 | 0.080 | 1.587 | 377.000 | 0.116 | 23.350 | 13164 | 0.050 | 0.798 | 214.500 | 0.053 | 41.070 |
| 2 | 13175 | 0.086 | 1.670 | 367.900 | 0.089 | 23.920 | 13182 | 0.062 | 0.945 | 212.900 | 0.047 | 41.320 |
| MEAN | | 0.083 | 1.629 | 372.500 | 0.103 | 23.630 | | 0.056 | 0.872 | 213.700 | 0.050 | 41.200 |
| S.D. | | 0.004 | 0.059 | 6.455 | 0.019 | 0.400 | | 0.008 | 0.104 | 1.122 | 0.004 | 0.179 |
| C.V | | 5.100 | 3.600 | 1.700 | 18.600 | 1.700 | | 15.200 | 11.900 | 0.500 | 8.500 | 0.400 |

### Final Test Date: 8/13/85

| | Hot Start LA-4 Urban Fuel Economy | | | | | | Highway Fuel Economy | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Final Run*** | | ***HC*** | ***CO*** | ***CO2*** | ***NOX*** | ***F.E*** | | ***HC*** | ***CO*** | ***CO2*** | ***NOX*** | ***F.E.*** |
| 1 | 14198 | 0.062 | 1.385 | 359.470 | 0.106 | 24.508 | 14205 | 0.050 | 0.756 | 214.820 | 0.051 | 43.930 |
| 2 | 14215 | 0.078 | 1.758 | 259.014 | 0.109 | 24.496 | 14223 | 0.030 | 0.759 | 207.580 | 0.059 | 42.458 |
| MEAN | | 0.070 | 1.572 | 359.200 | 0.108 | 24.500 | | 0.040 | 0.758 | 211.200 | 0.055 | 43.190 |
| S.D. | | 0.011 | 0.264 | 0.322 | 0.002 | 0.008 | | 0.014 | 0.002 | 5.119 | 0.006 | 1.041 |
| C.V. | | 16.200 | 16.800 | 0.100 | 2.000 | 0.000 | | 35.400 | 0.300 | 2.400 | 10.300 | 2.400 |
| **Percent Change** | | **15.360** | **-3.500** | **-3.550** | **-4.880** | **3.670** | | **28.570** | **13.080** | **-1.180** | **10.000** | **4.850** |

Note 1: Exhaust emissions are in grams per mile. Fuel Economy is in miles per gallon

Note 2: C.V. if the Coefficient of Variation for tests.

Note 3: C.V. = Standardard Deviation/Mean x 100%