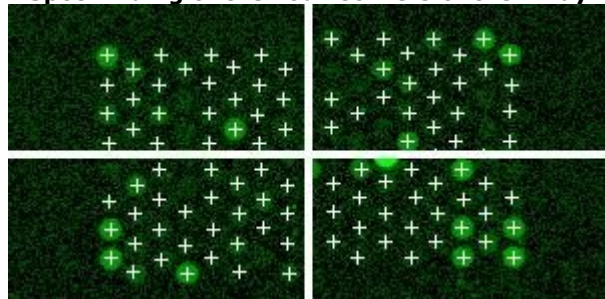


**QC Report - Agilent Technologies : miRNA****QCMetrics InRange (4 of 4)**

|            |                                     |                        |  |
|------------|-------------------------------------|------------------------|--|
| Date       | Wednesday, April 16, 2008 - 17:56   | Grid                   | US22502705_251911810638_S01_H_grid<br>(from grid_file) |
| Image      | US22502705_251911810638_S01_H [2_1] | BG Method              | No Background  |
| Protocol   | miRNA-v1_95_May07 (Read Only)       | Background Detrend     | On(FeatNCRRange, LoPass)                               |
| User Name  | pdandrad                            | Multiplicative Detrend | False  |
| FE Version | 9.5.3.1                             | Additive Error         | 3  |
|            |                                     | Saturation Value       | 1167365  |

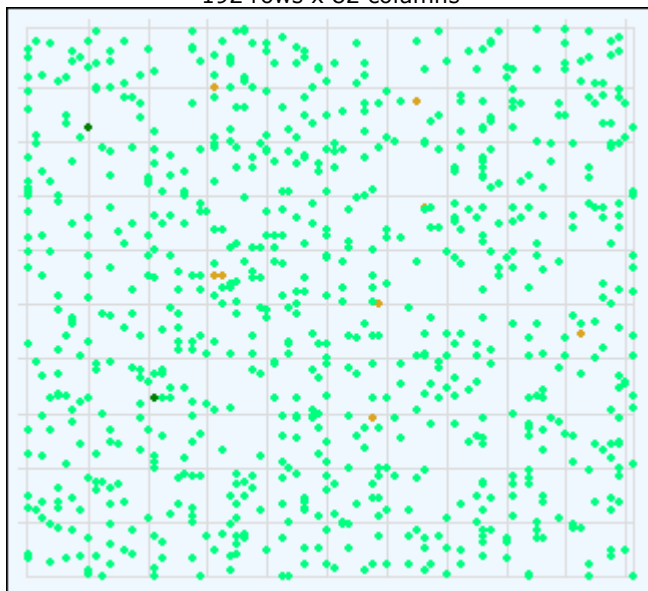
**Spot Finding of the Four Corners of the Array****Grid Normal**

| Feature | Local Background |
|---------|------------------|
|---------|------------------|

|             |     |   |
|-------------|-----|---|
| Non Uniform | 2   | 8 |
| Population  | 785 | 0 |

**Spatial Distribution of All Outliers on the Array**

192 rows x 82 columns



# FeatureNonUnif = 2(0.01%)

# Feature Population Outliers = 785(5.71%)

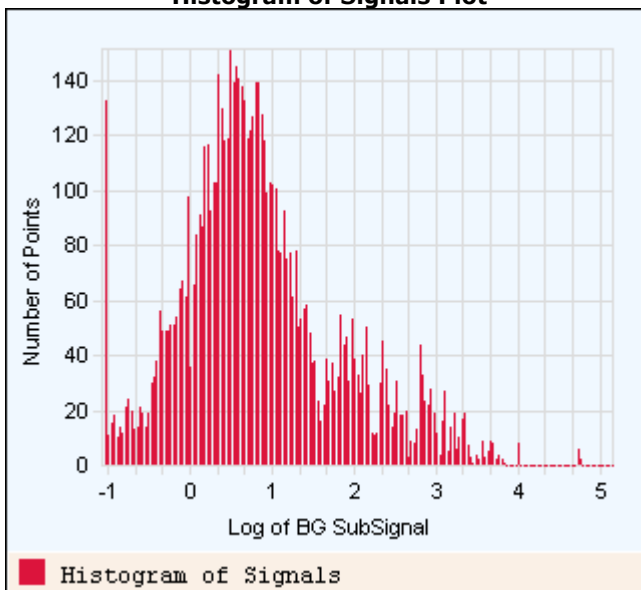
● BG NonUniform      ● BG Population  
 ● Green FeaturePopulation ● Green Feature NonUniform

**Net Signal Statistics****Non-Control probes:**

|                      |      |
|----------------------|------|
| # Saturated Features | 0    |
| 99% of Sig. Distrib. | 1357 |
| 50% of Sig. Distrib. | 20   |
| 1% of Sig. Distrib.  | 13   |

**Negative Control Stats**

|                       |       |
|-----------------------|-------|
| Average Net Signals   | 21.43 |
| StdDev Net Signals    | 2.53  |
| Average BG Sub Signal | 2.15  |
| StdDev BG Sub Signal  | 2.54  |

**Histogram of Signals Plot**

# Features (NonCtrl) with BGSubSignal &lt; 0: 5838 (Green)

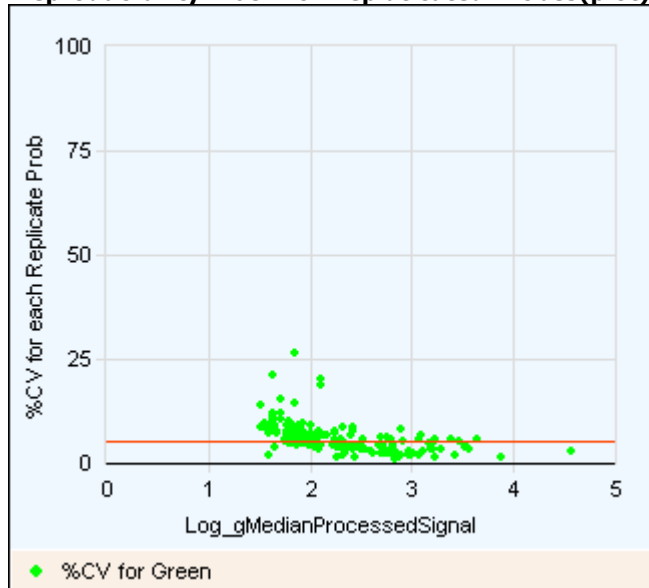
**Foreground Surface Fit**

|           |       |
|-----------|-------|
| RMS_Fit   | 1.01  |
| RMS_Resid | 3.10  |
| Avg_Fit   | 55.52 |

**Reproducibility: %CV for Replicated Probes**

Median %CV Signal (inliers)  
Non-Control probes

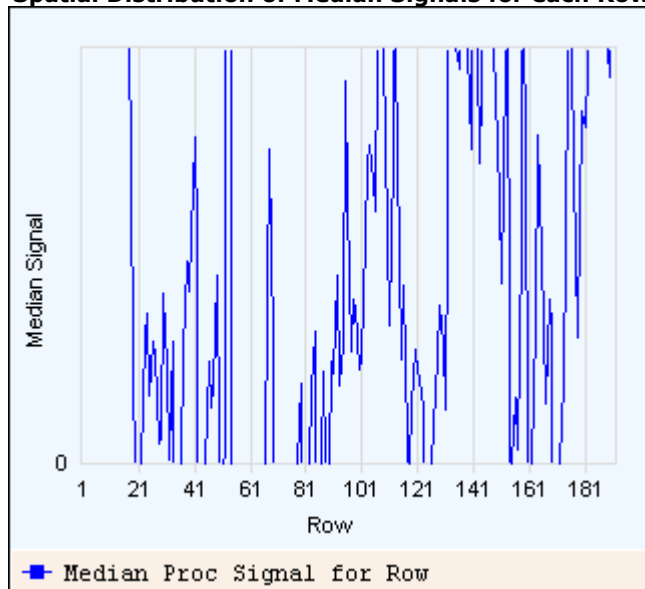
|                 |      |
|-----------------|------|
| BGSubSignal     | 5.06 |
| ProcessedSignal | 5.06 |

**Reproducibility: %CV for Replated Probes(plot)****Evaluation Metrics for miRNA\_QCM\_Apr07**

Metric Name      Value UpLim LowLim IsMandatory

|                             |      |    |    |       |
|-----------------------------|------|----|----|-------|
| AddErrorEstimateGreen       | 3.10 | NA | NA | False |
| AnyColorPrcntFeatPopnOL     | 5.71 | NA | NA | False |
| gNonCtrlMedPrcntCVBGSubS... | 5.06 | NA | NA | False |
| gTotalSignal75pctile        | 5.66 | NA | NA | False |

◆ In Normal Range    ◆ Evaluate

**Spatial Distribution of Median Signals for each Row****Spatial Distribution of Median Signals for each Column**