



## 5.1.1.2.3.2.4 Test RB = RB75#0

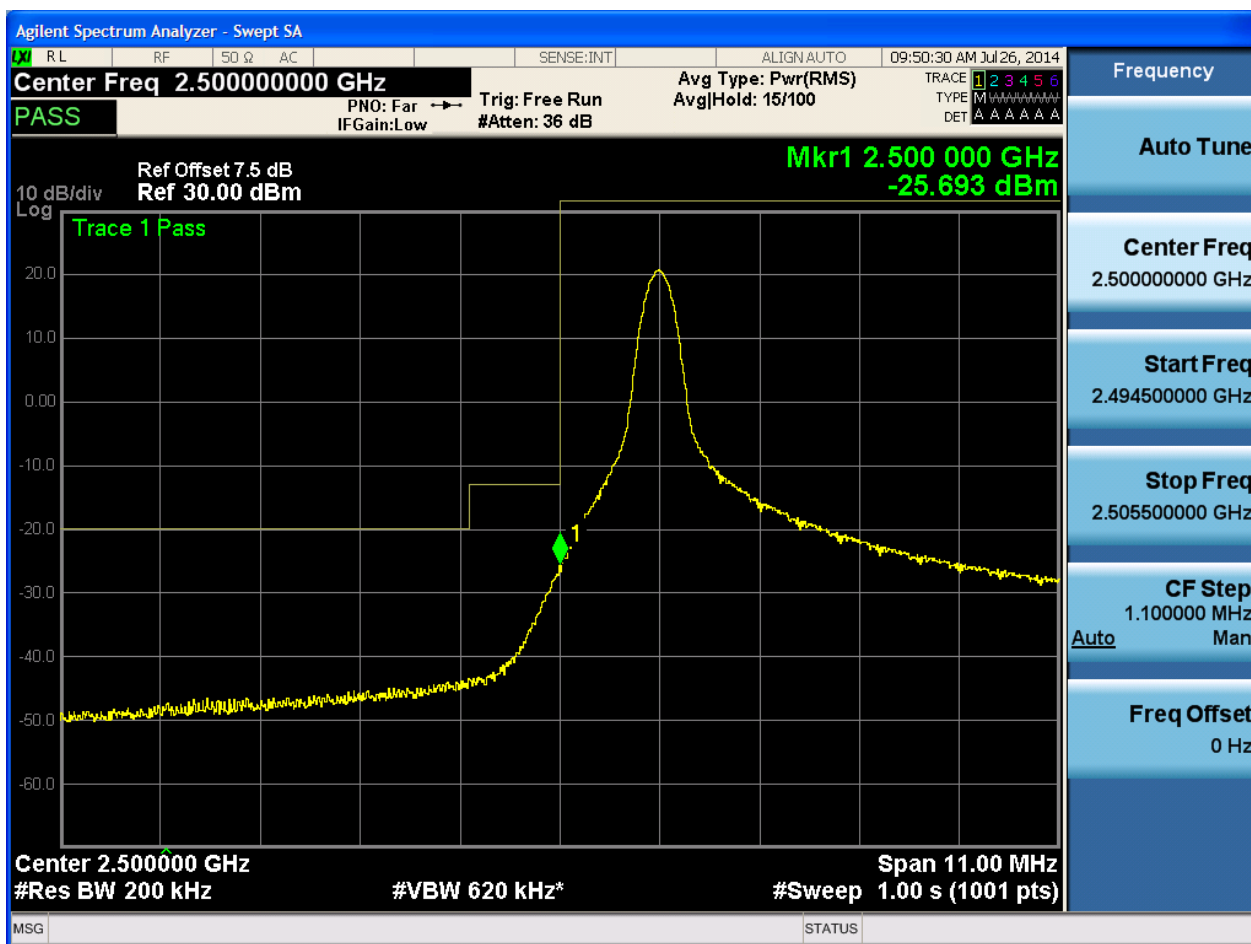




## 5.1.1.2.4 Test Bandwidth = 20

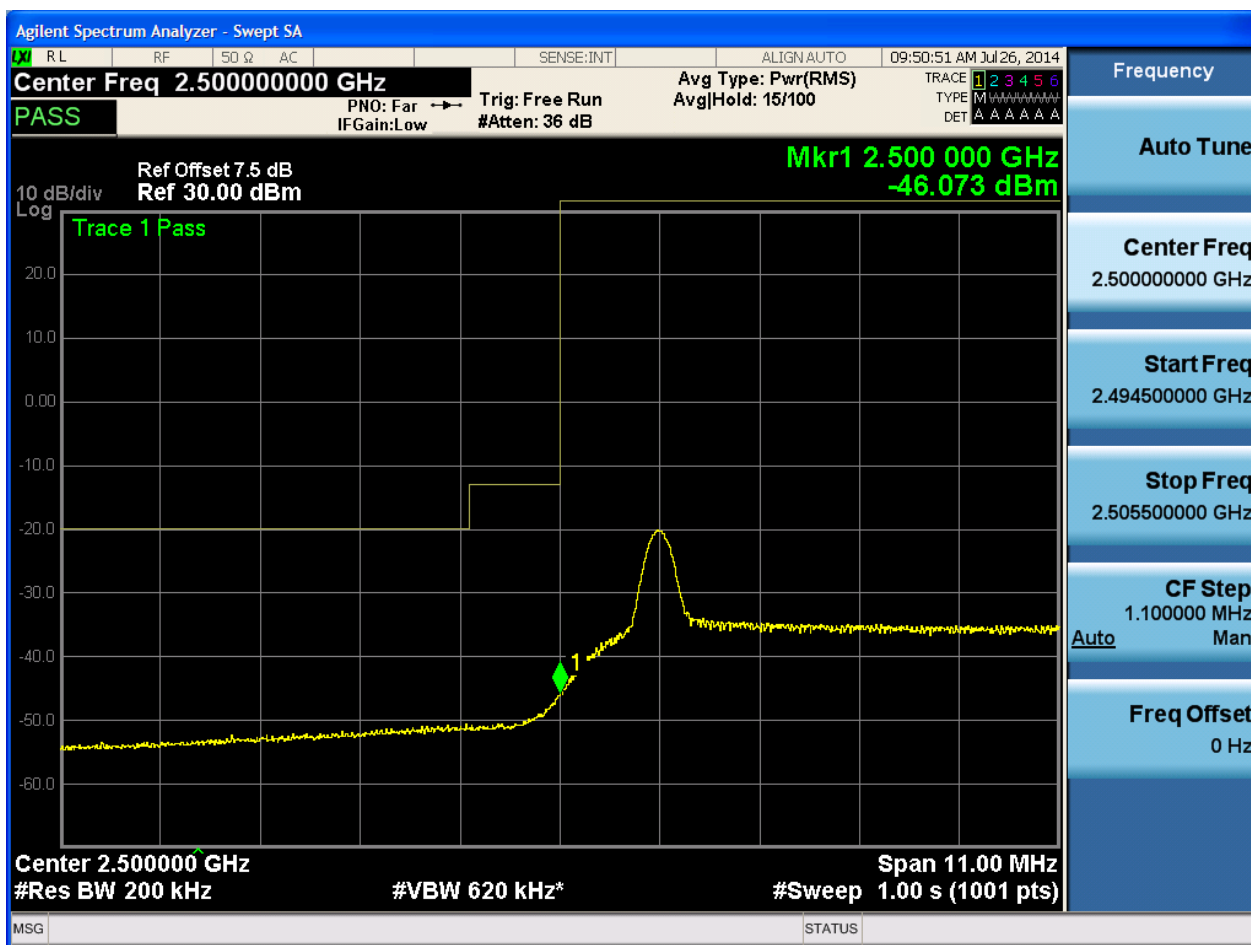
## 5.1.1.2.4.1 Test Channel = LCH

## 5.1.1.2.4.1.1 Test RB = RB1#0





## 5.1.1.2.4.1.2 Test RB = RB1#99



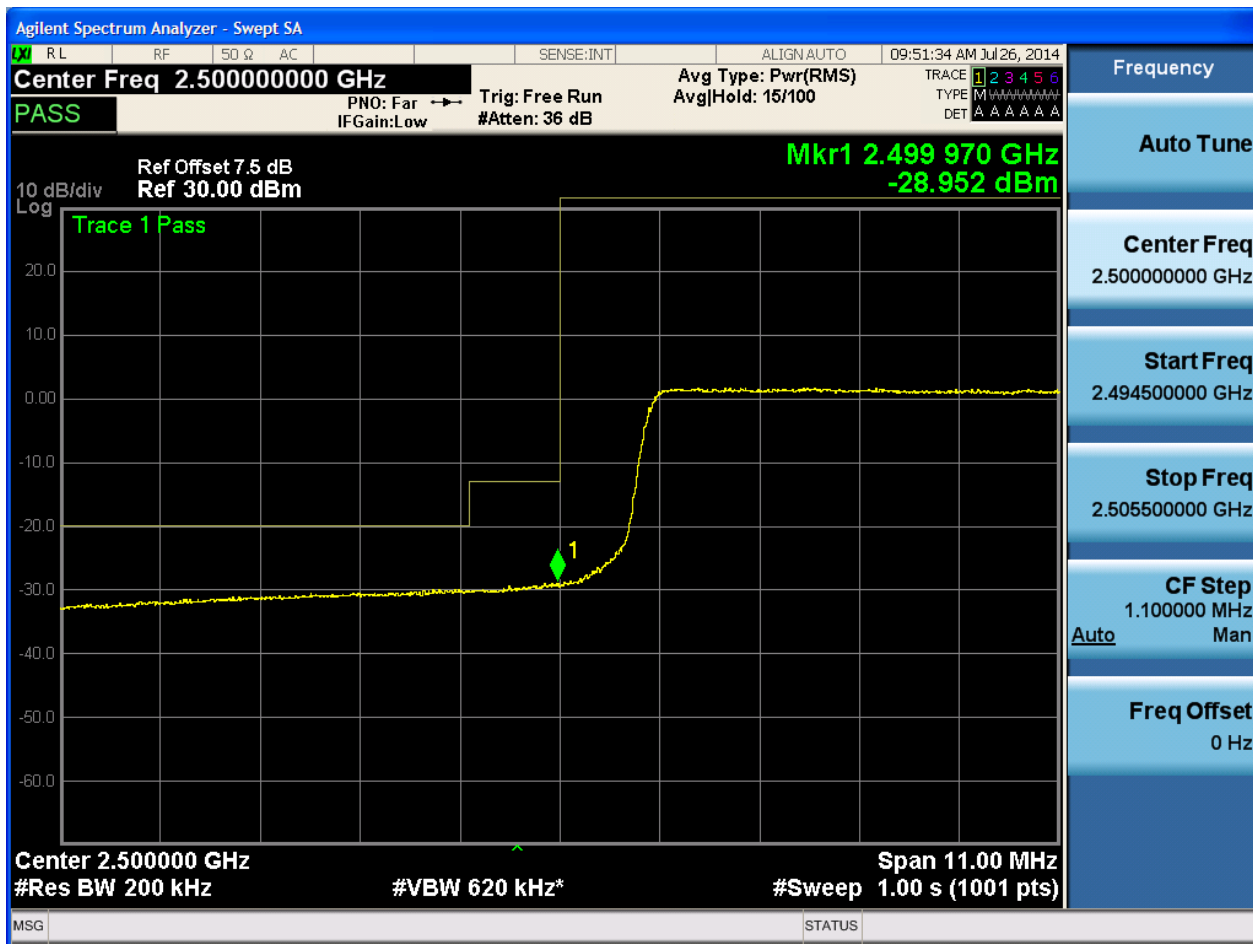


## 5.1.1.2.4.1.3 Test RB = RB50#25





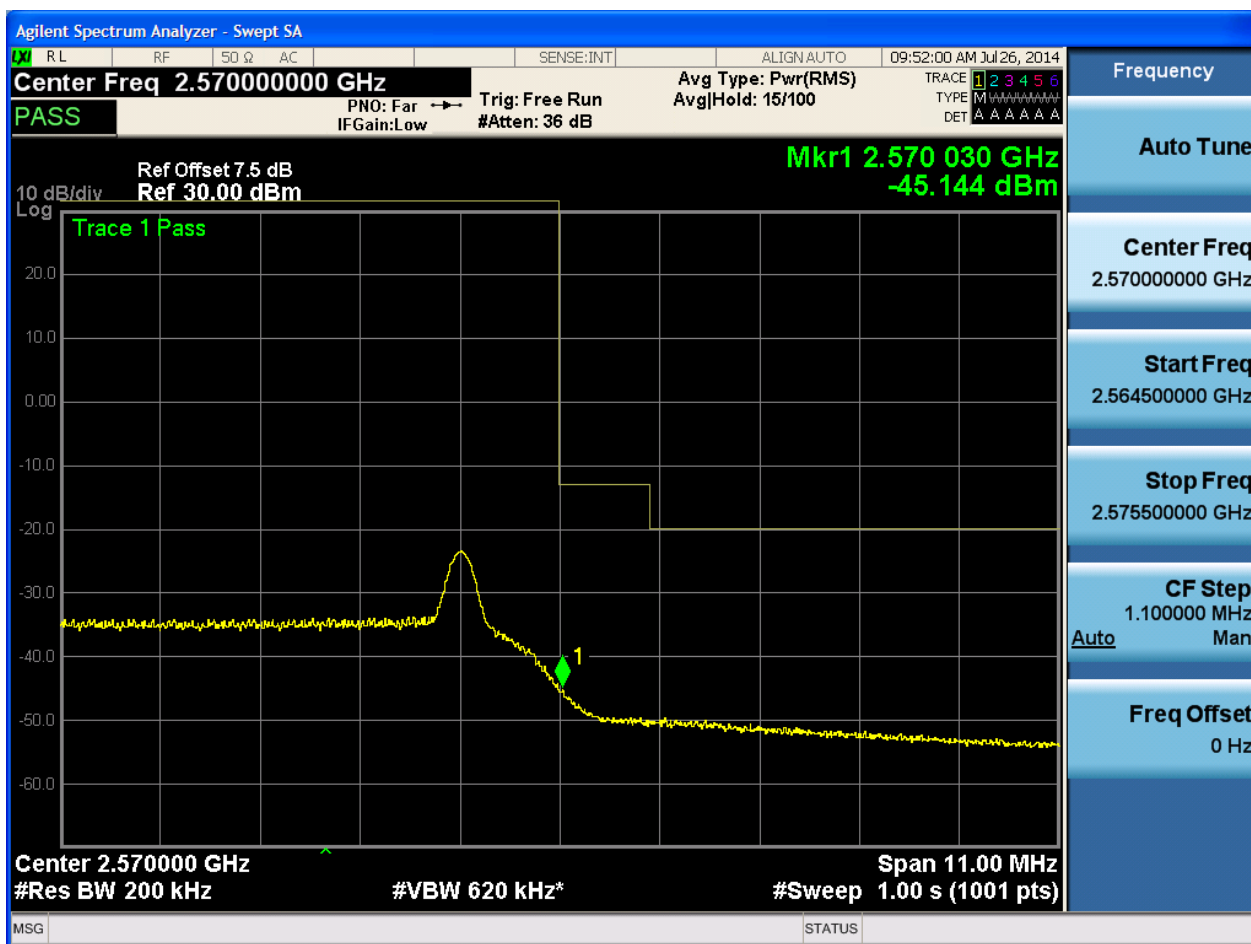
## 5.1.1.2.4.1.4 Test RB = RB100#0





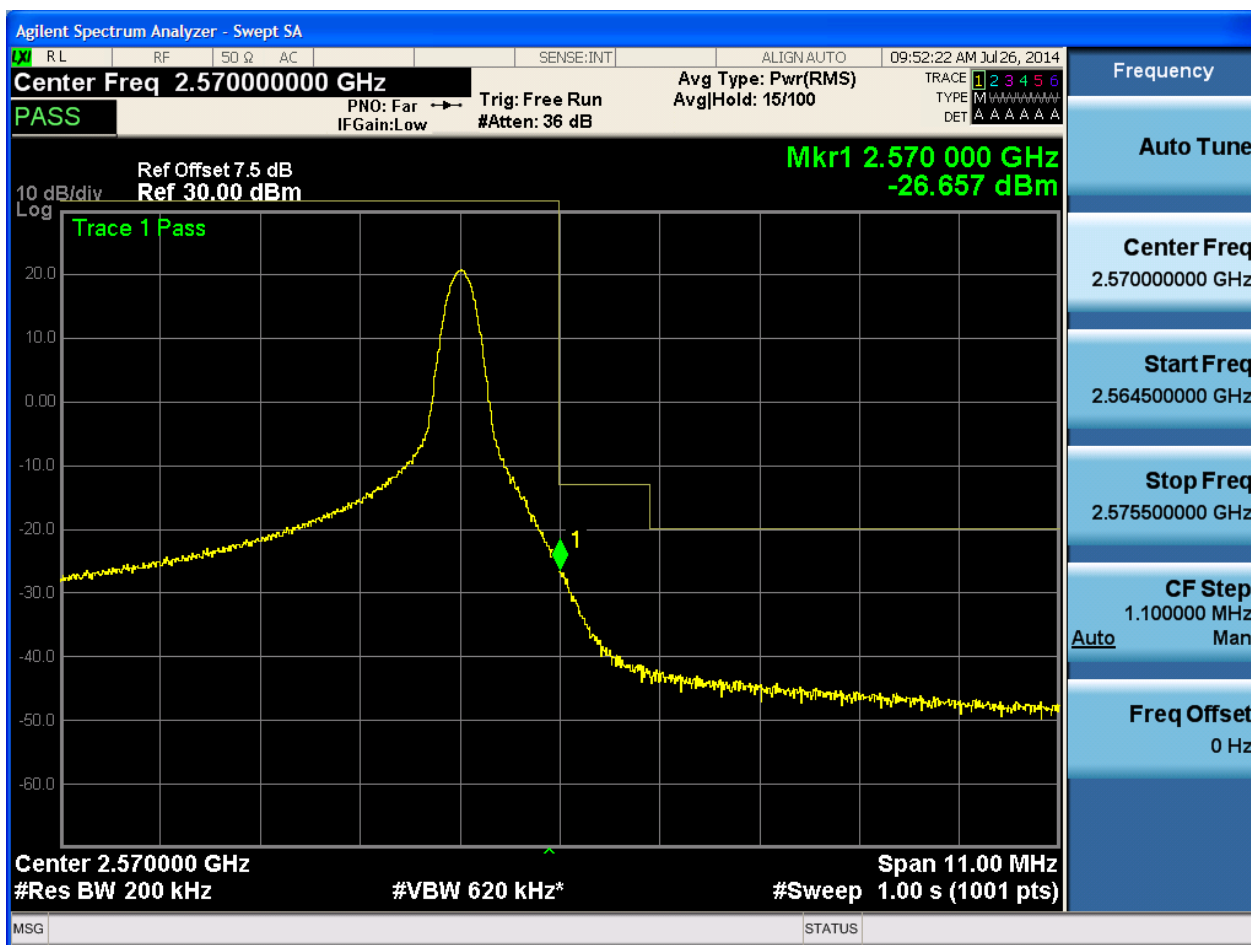
## 5.1.1.2.4.2 Test Channel = HCH

## 5.1.1.2.4.2.1 Test RB = RB1#0





## 5.1.1.2.4.2.2 Test RB = RB1#99





## 5.1.1.2.4.2.3 Test RB = RB50#25





## 5.1.1.2.4.2.4 Test RB = RB100#0





## 6Appendix\_F: Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< \text{RBW}/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (\text{Span} / \text{RBW})$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

### Part I - Test Plots

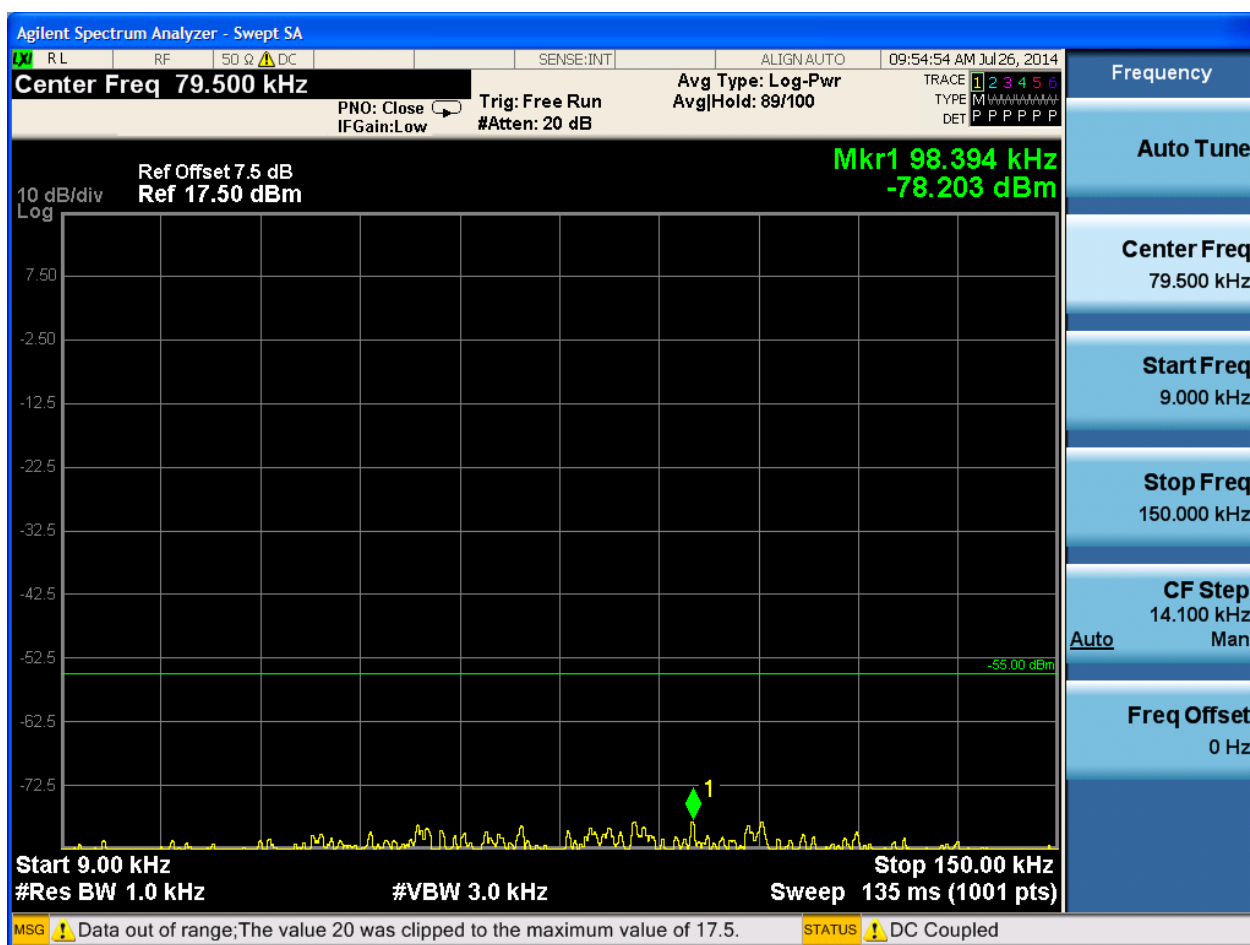
#### 6.3.4 Test Band = BAND7

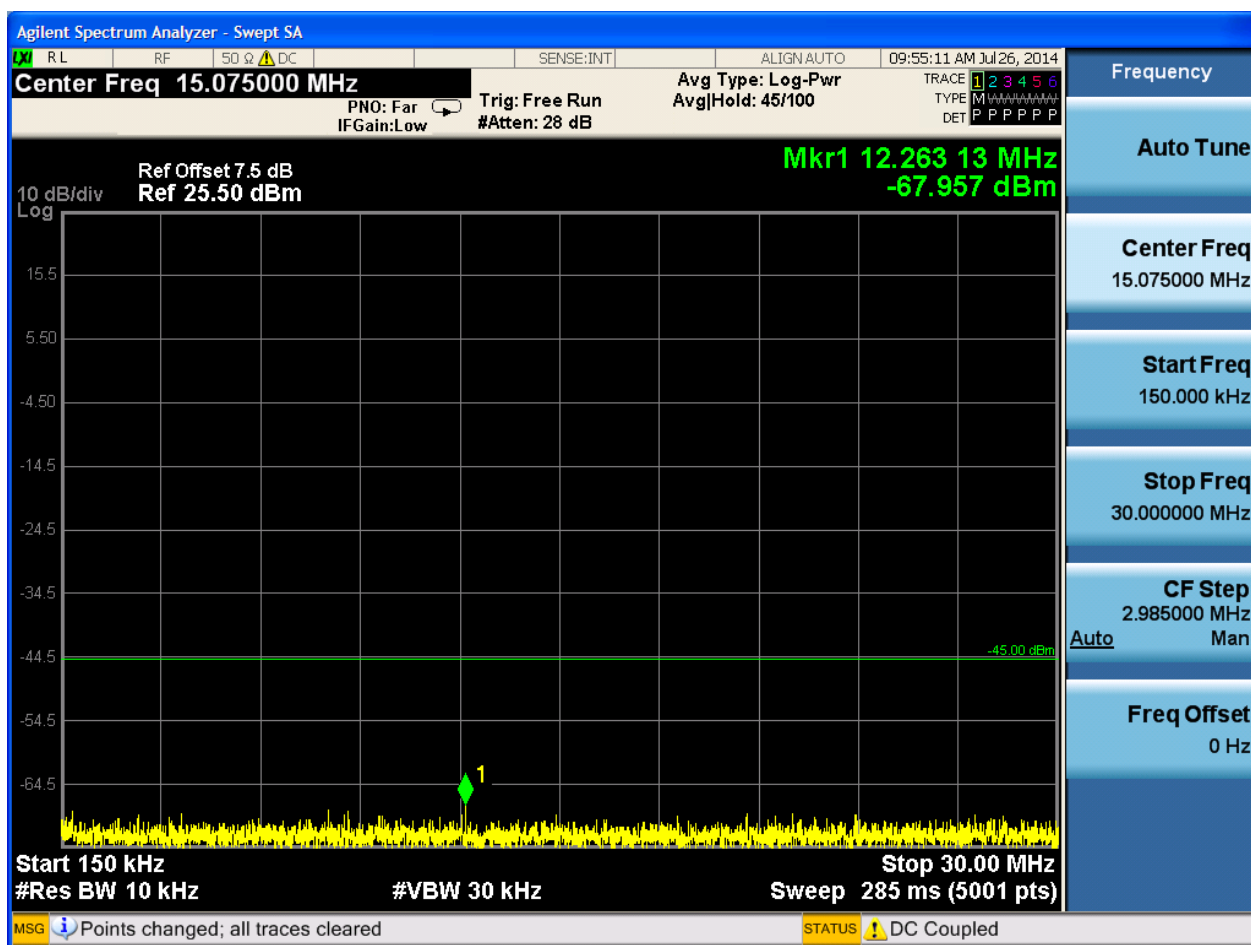
##### 6.3.4.1 Test Mode = LTE/TM1

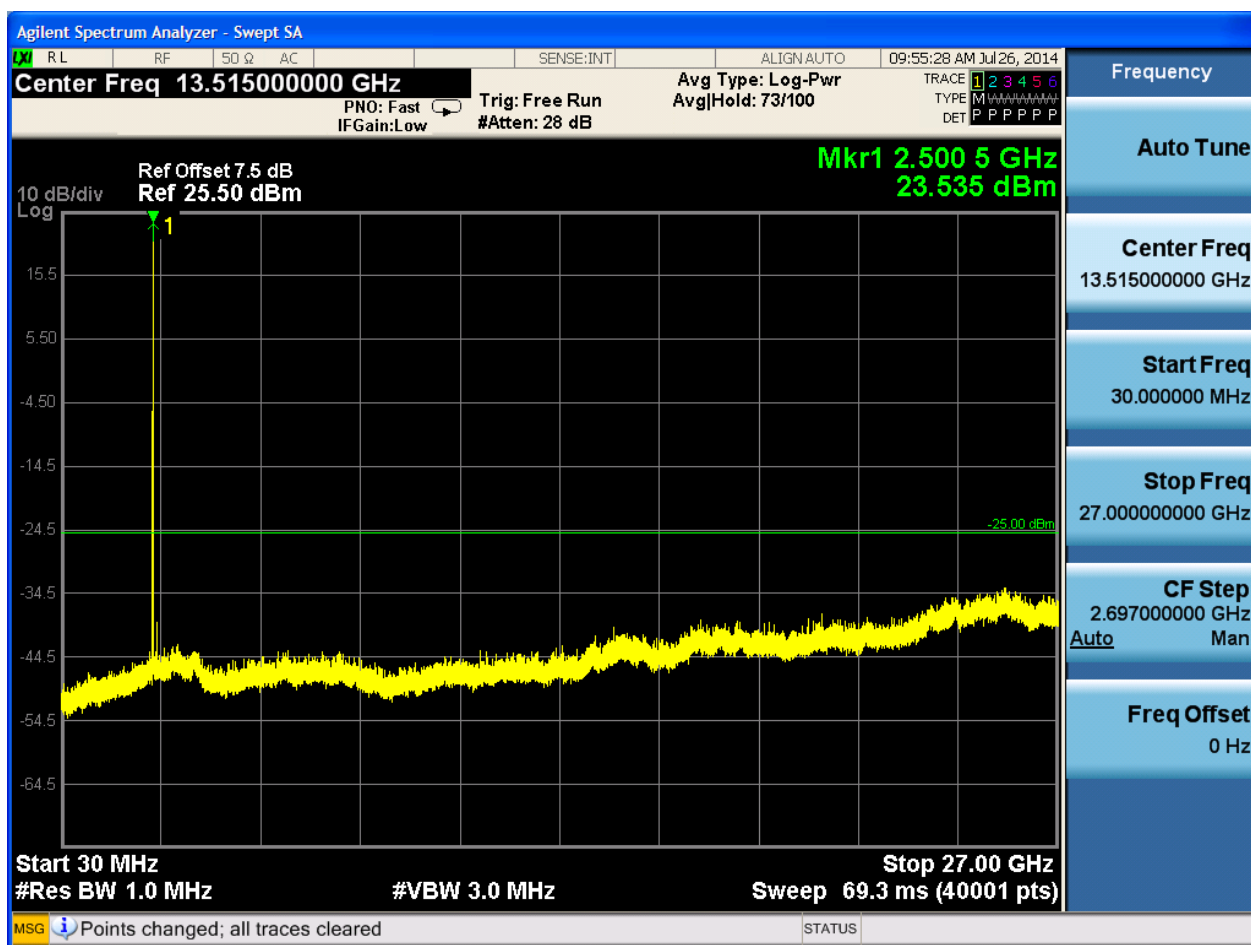
##### 6.3.4.1.1 Test Bandwidth = 5

##### 6.3.4.1.1.1 Test Channel = LCH

##### 6.3.4.1.1.1.1 Test RB = RB1#0





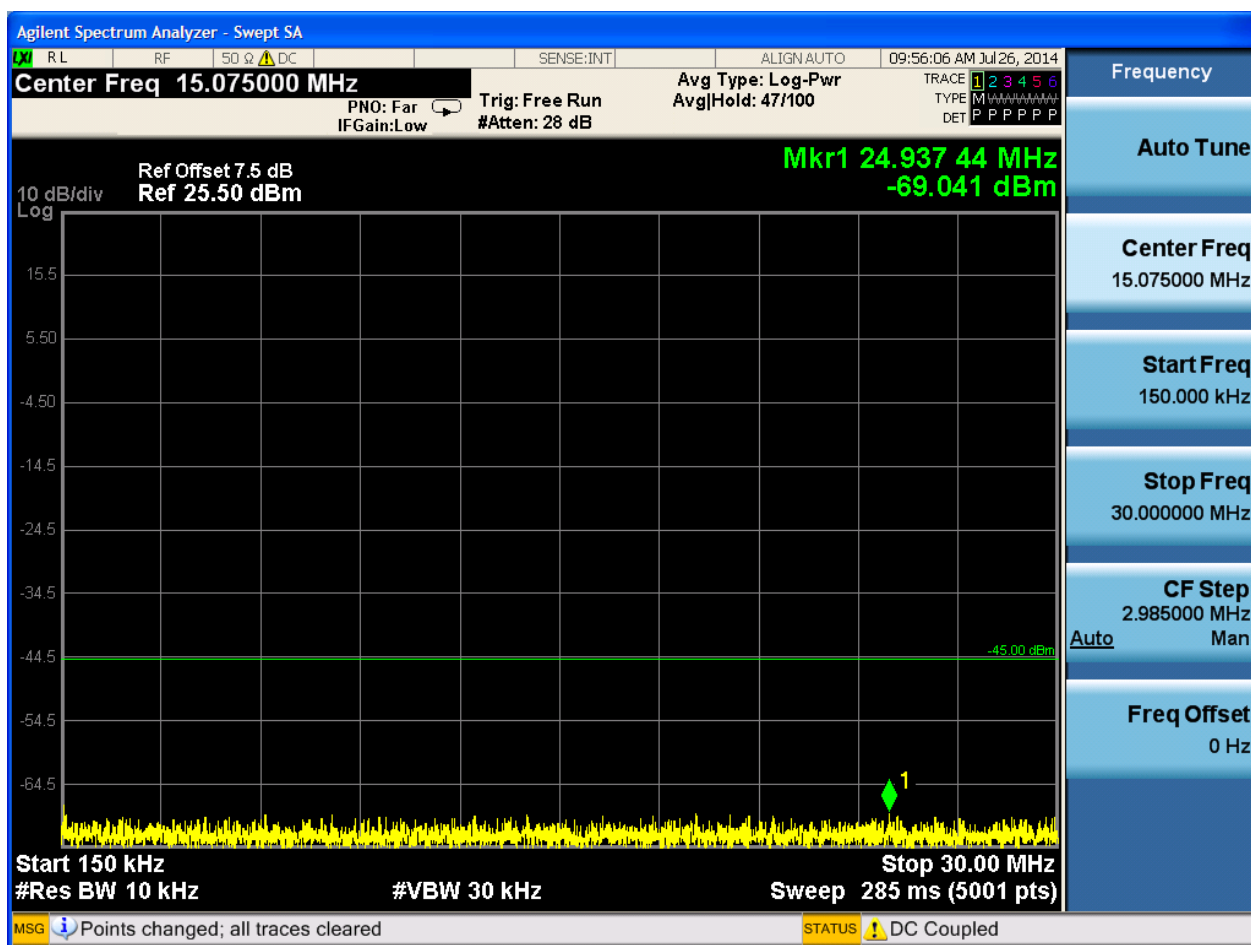


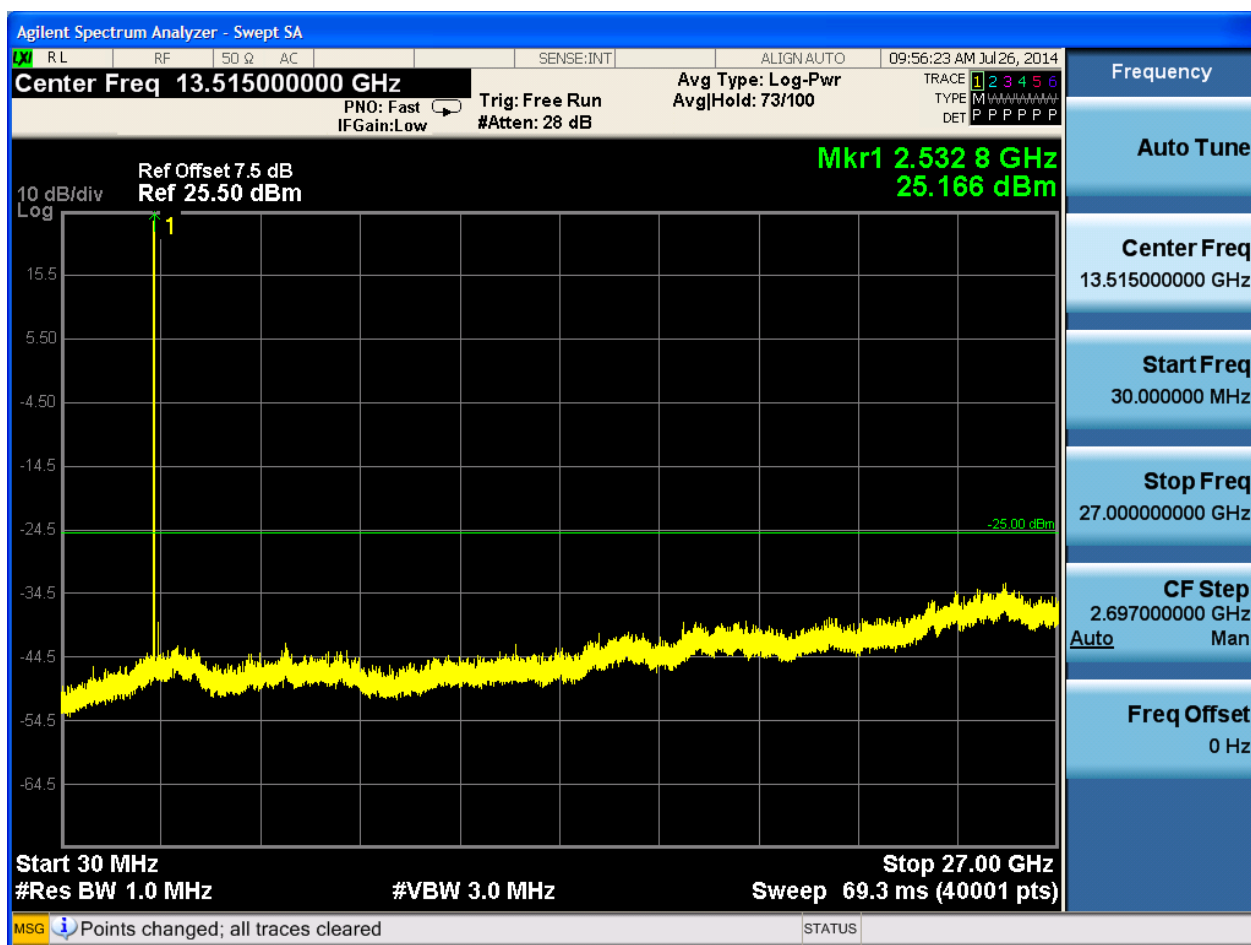


## 6.3.4.1.1.2 Test Channel = MCH

## 6.3.4.1.1.2.1 Test RB = RB1#0









## 6.3.4.1.1.3 Test Channel = HCH

## 6.3.4.1.1.3.1 Test RB = RB1#0



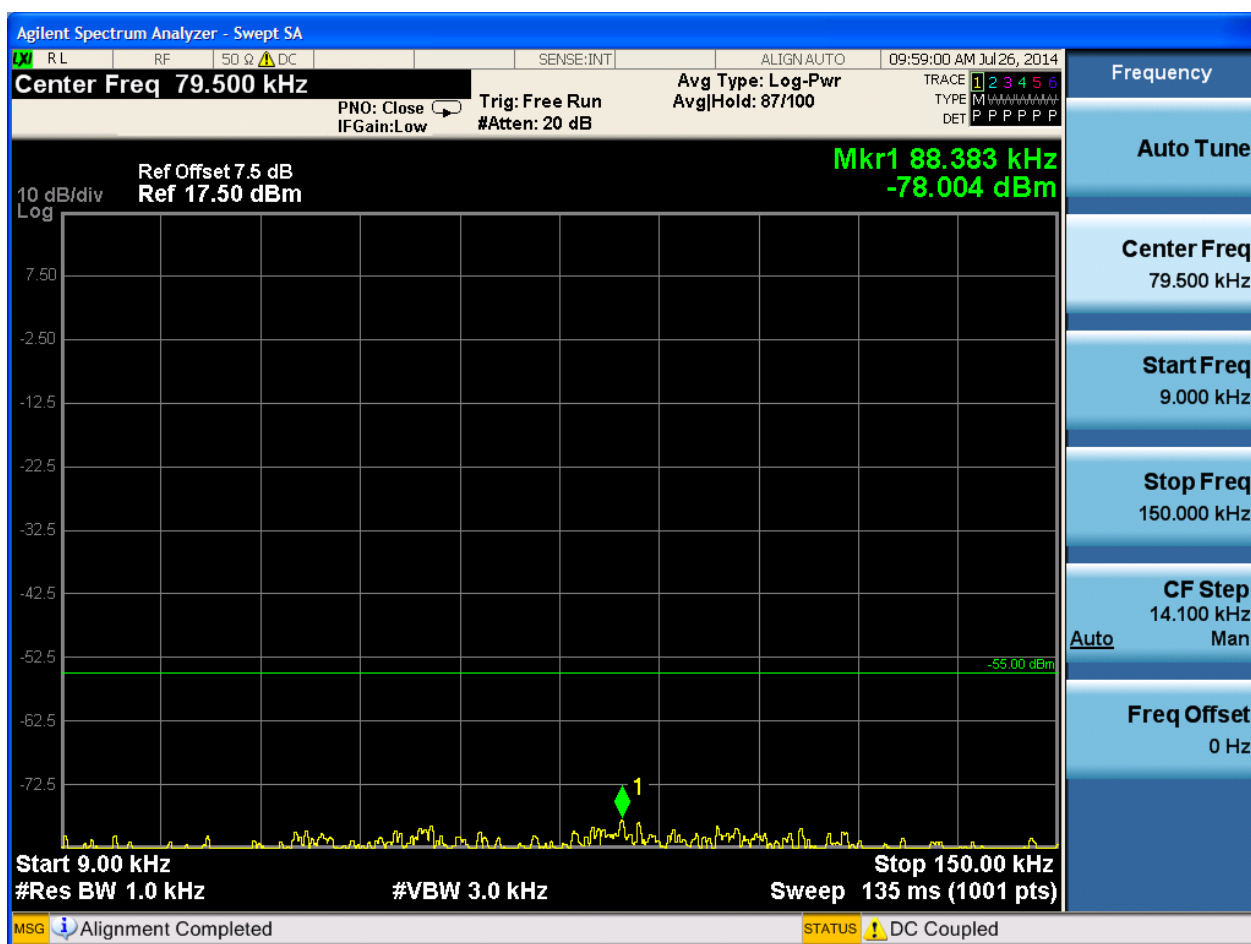


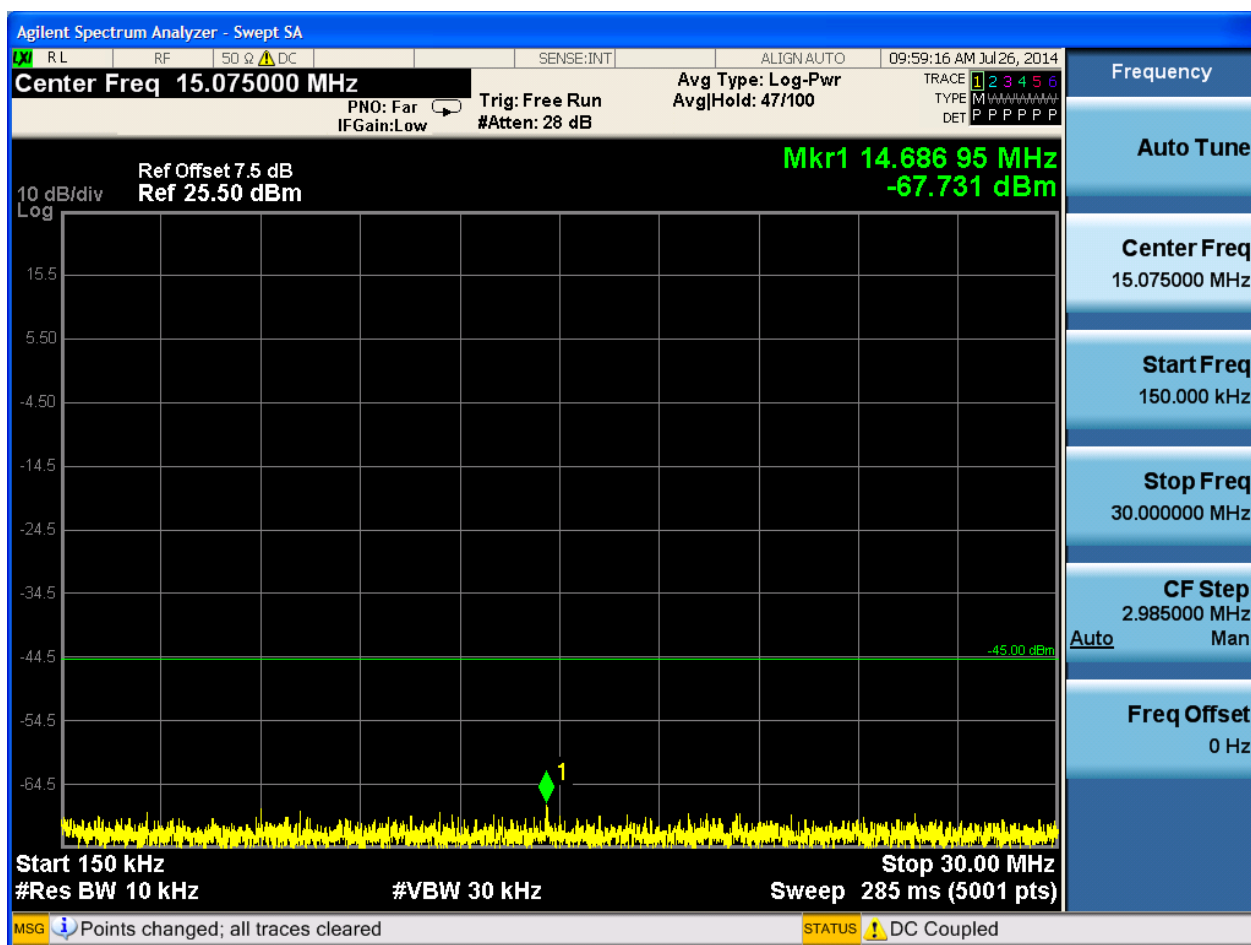


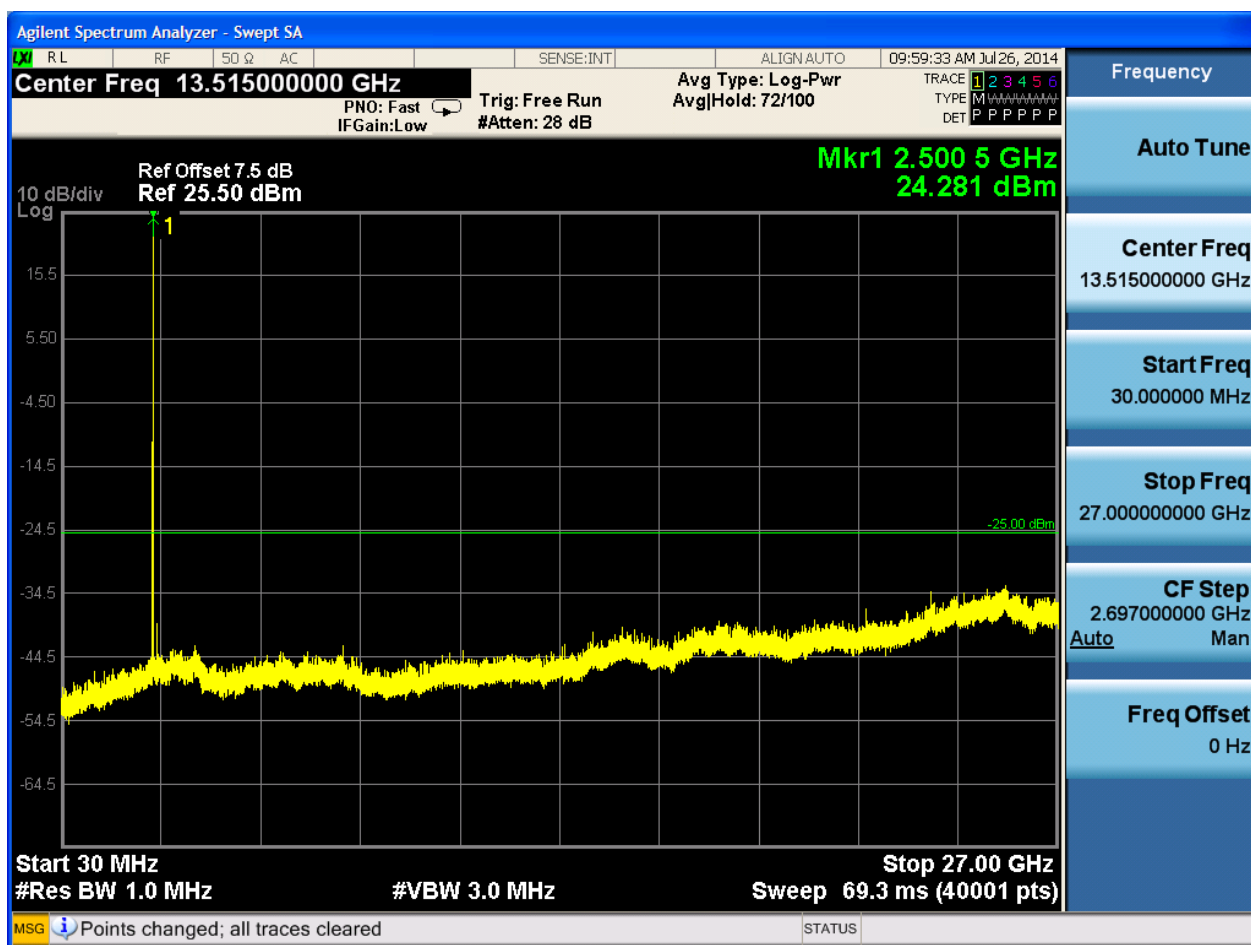
### 6.3.4.1.2 Test Bandwidth = 10

#### 6.3.4.1.2.1 Test Channel = LCH

##### 6.3.4.1.2.1.1 Test RB = RB1#0





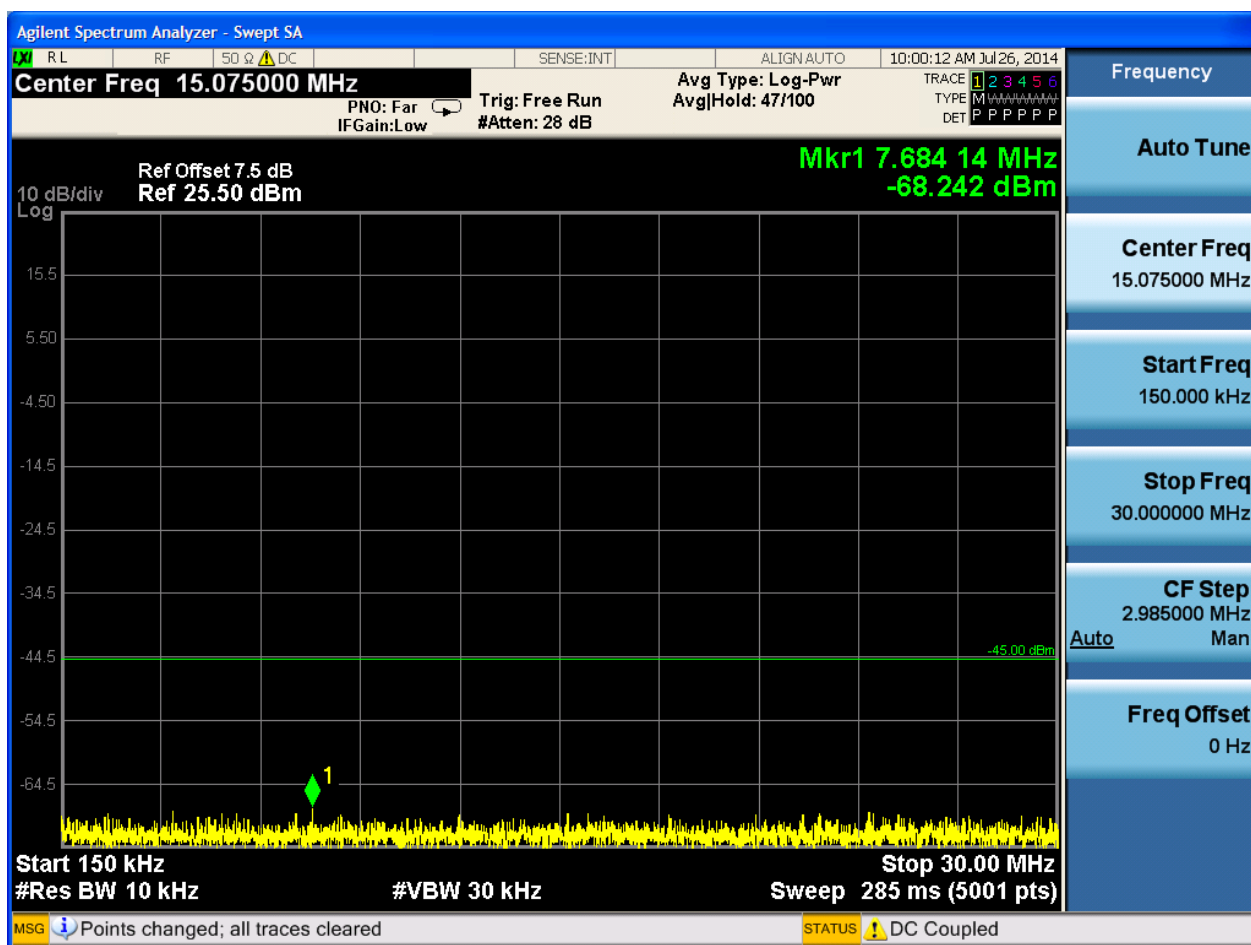




## 6.3.4.1.2.2 Test Channel = MCH

## 6.3.4.1.2.2.1 Test RB = RB1#0

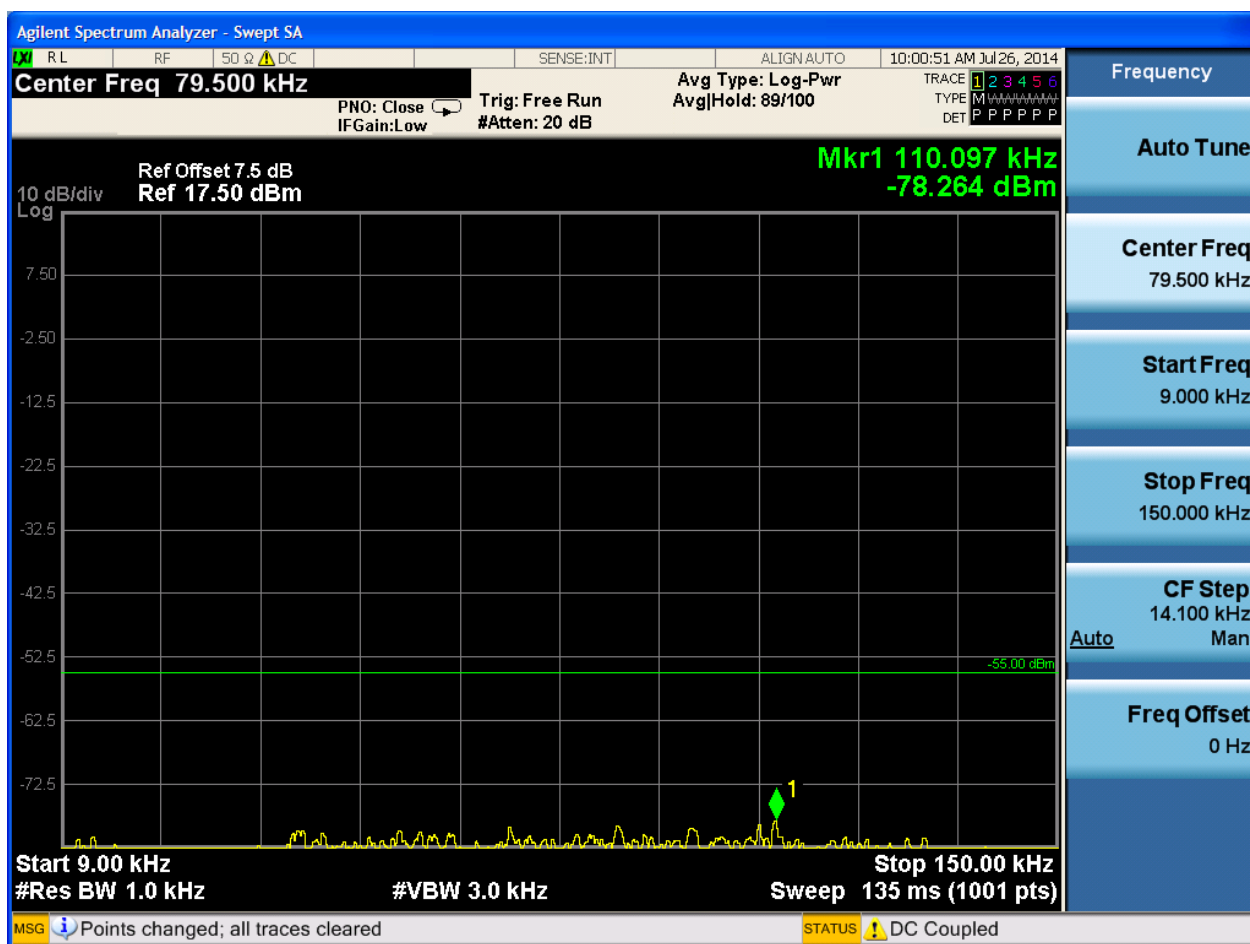


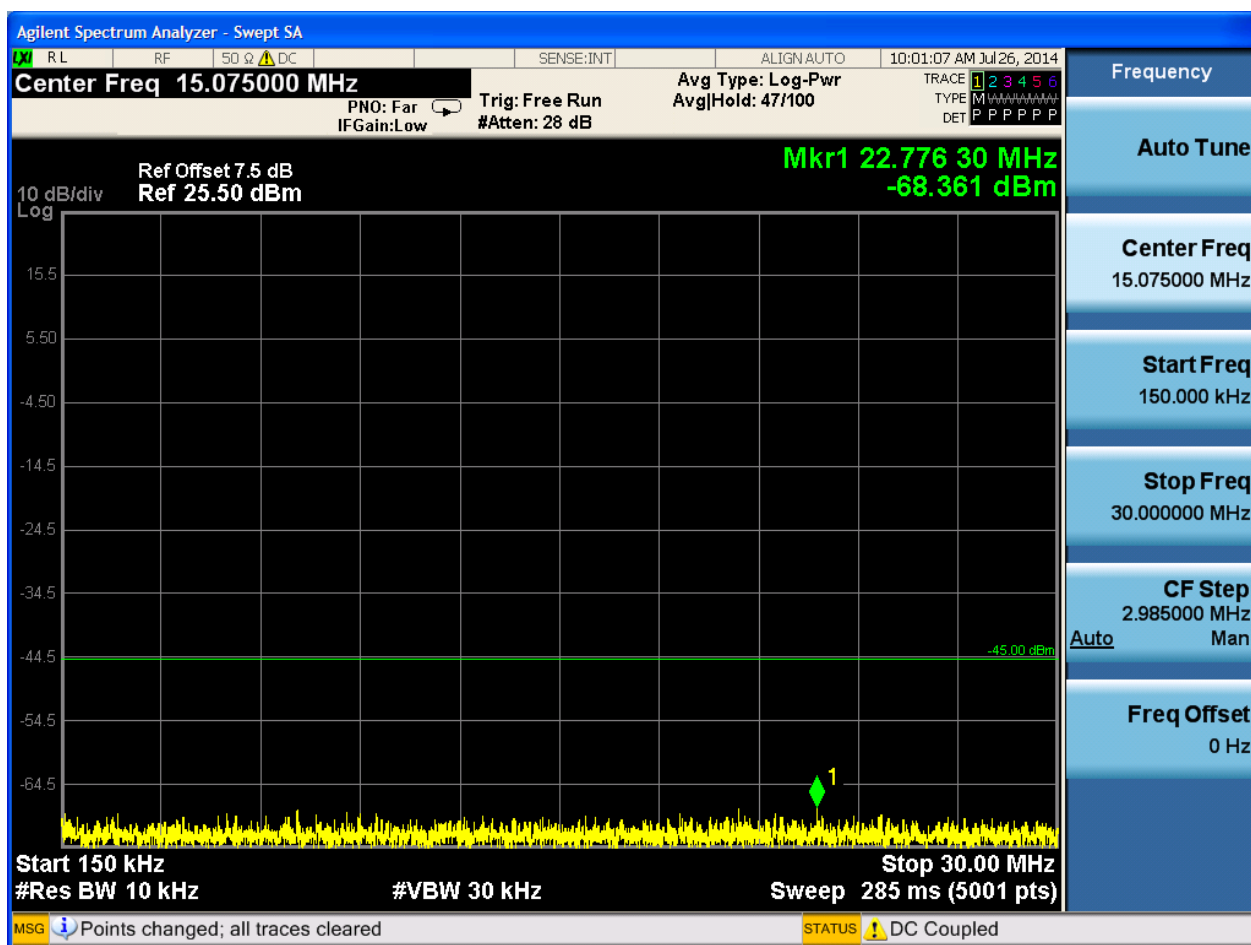


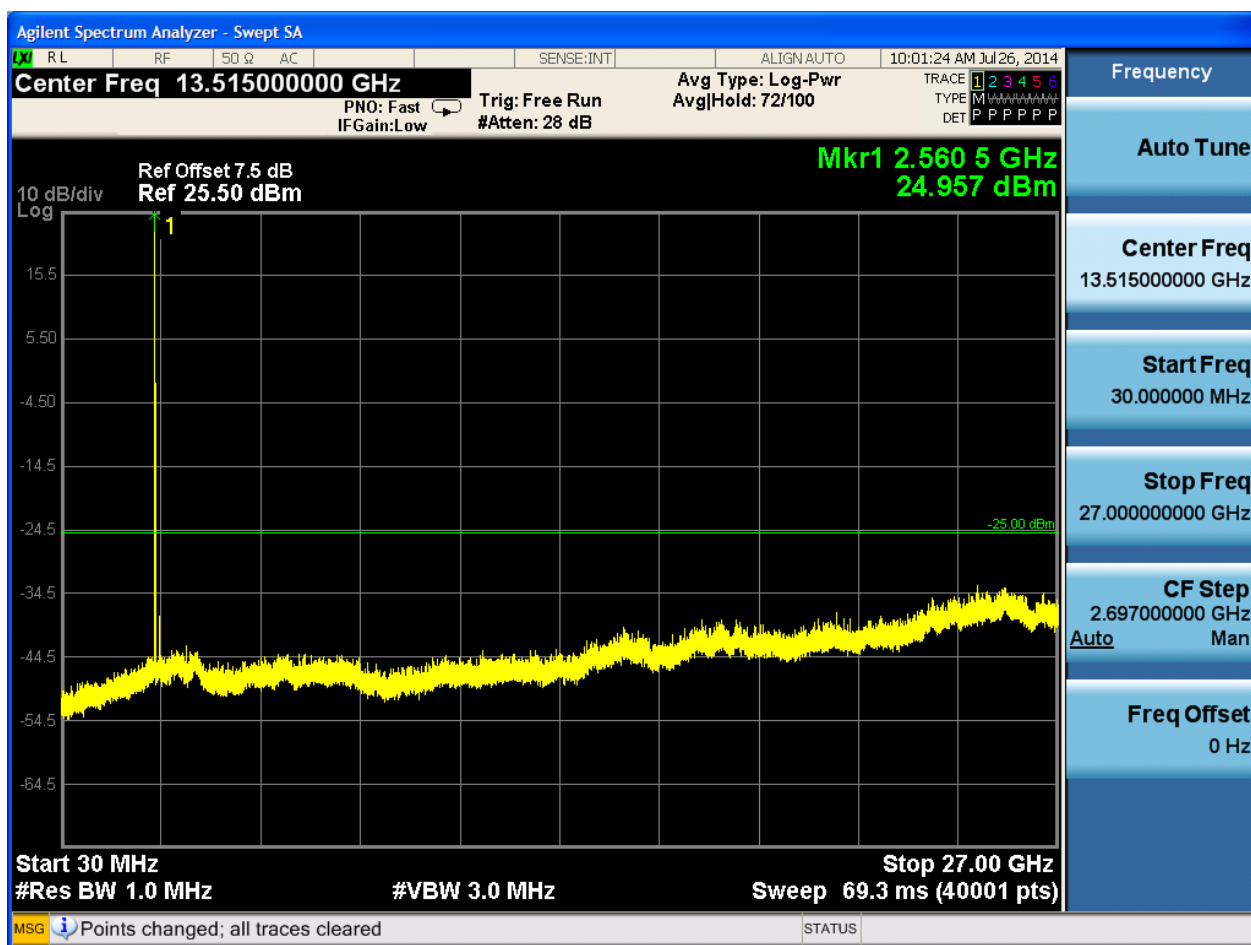


### 6.3.4.1.2.3 Test Channel = HCH

#### 6.3.4.1.2.3.1 Test RB = RB1#0



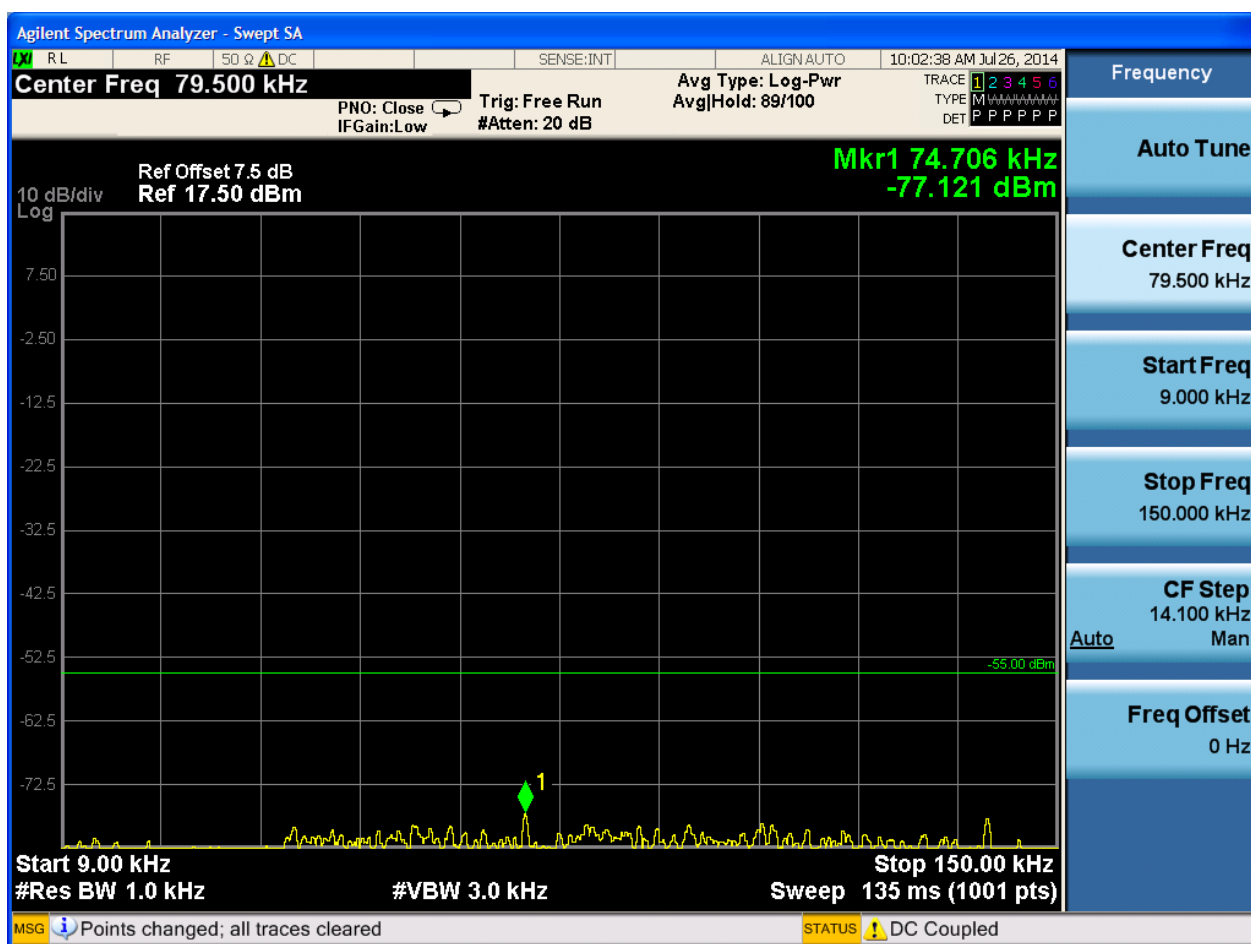


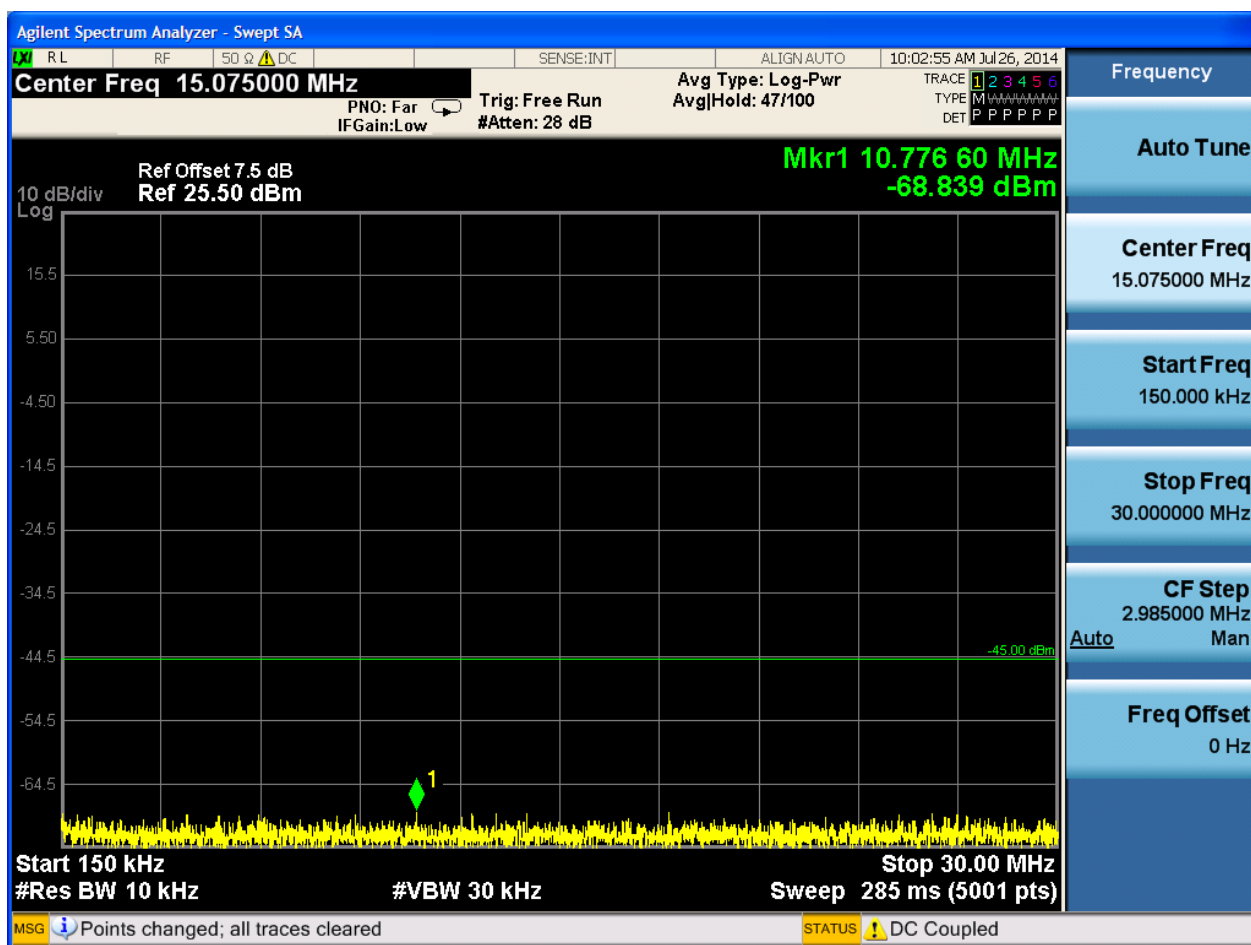


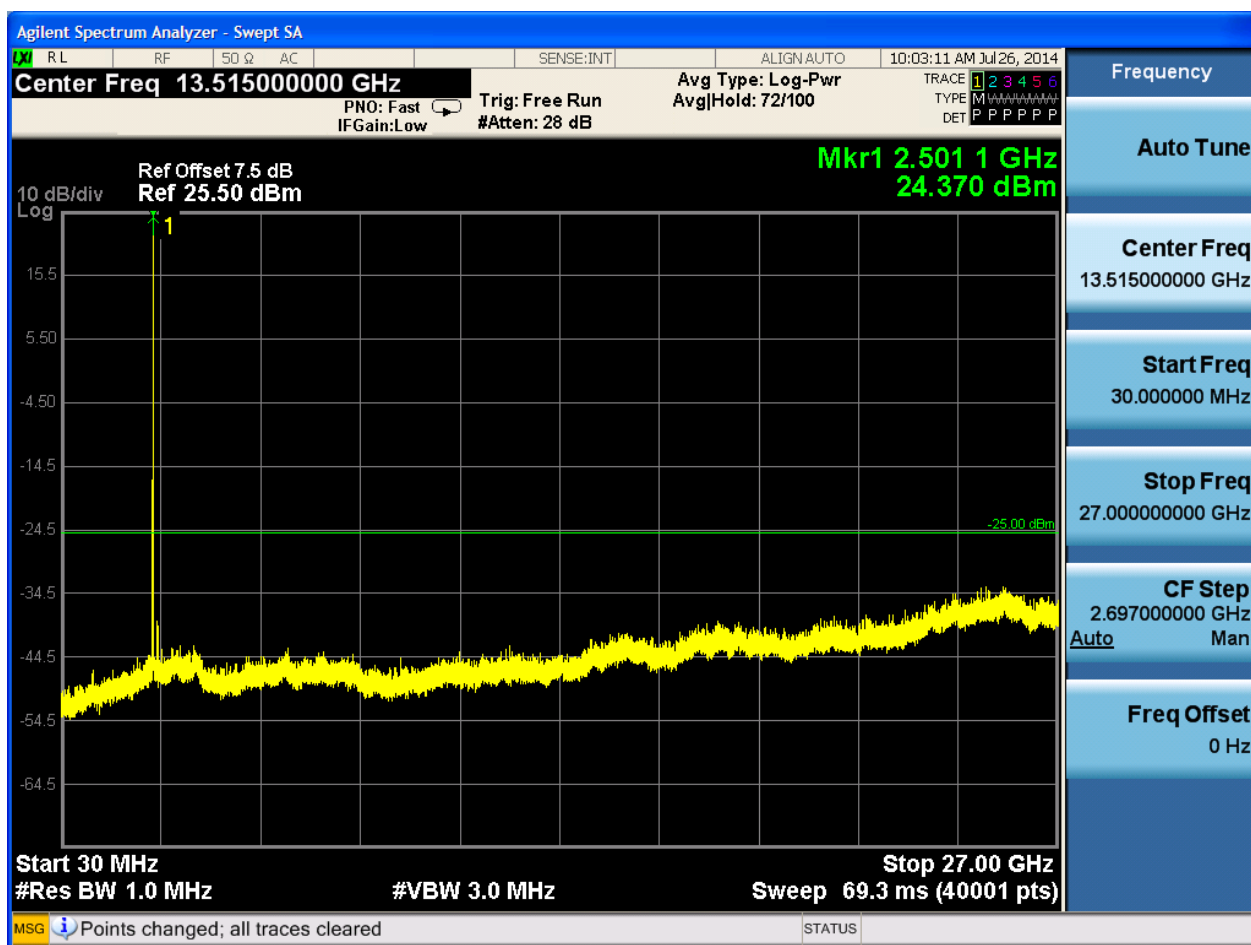
### 6.3.4.1.3 Test Bandwidth = 15

#### 6.3.4.1.3.1 Test Channel = LCH

##### 6.3.4.1.3.1.1 Test RB = RB1#0

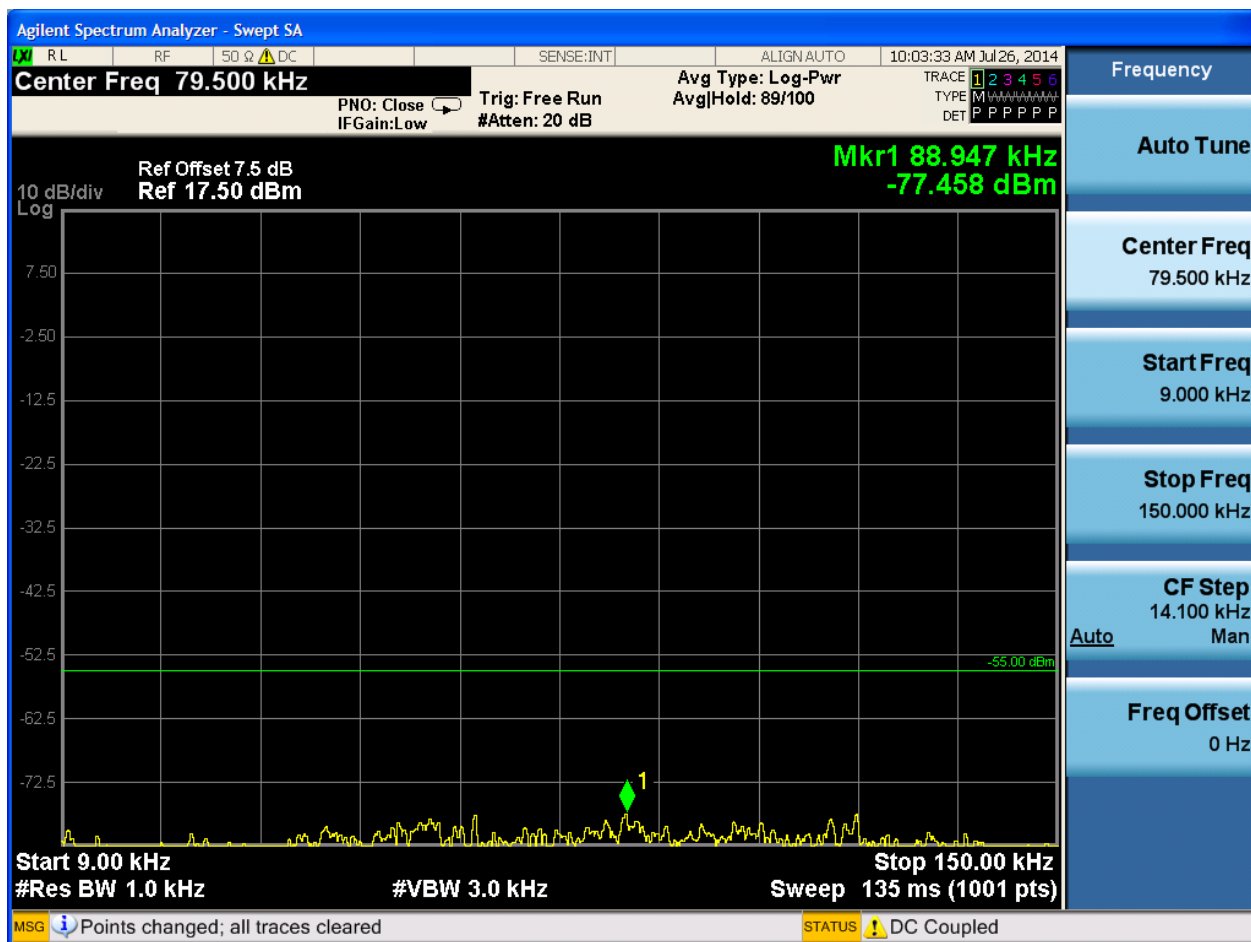


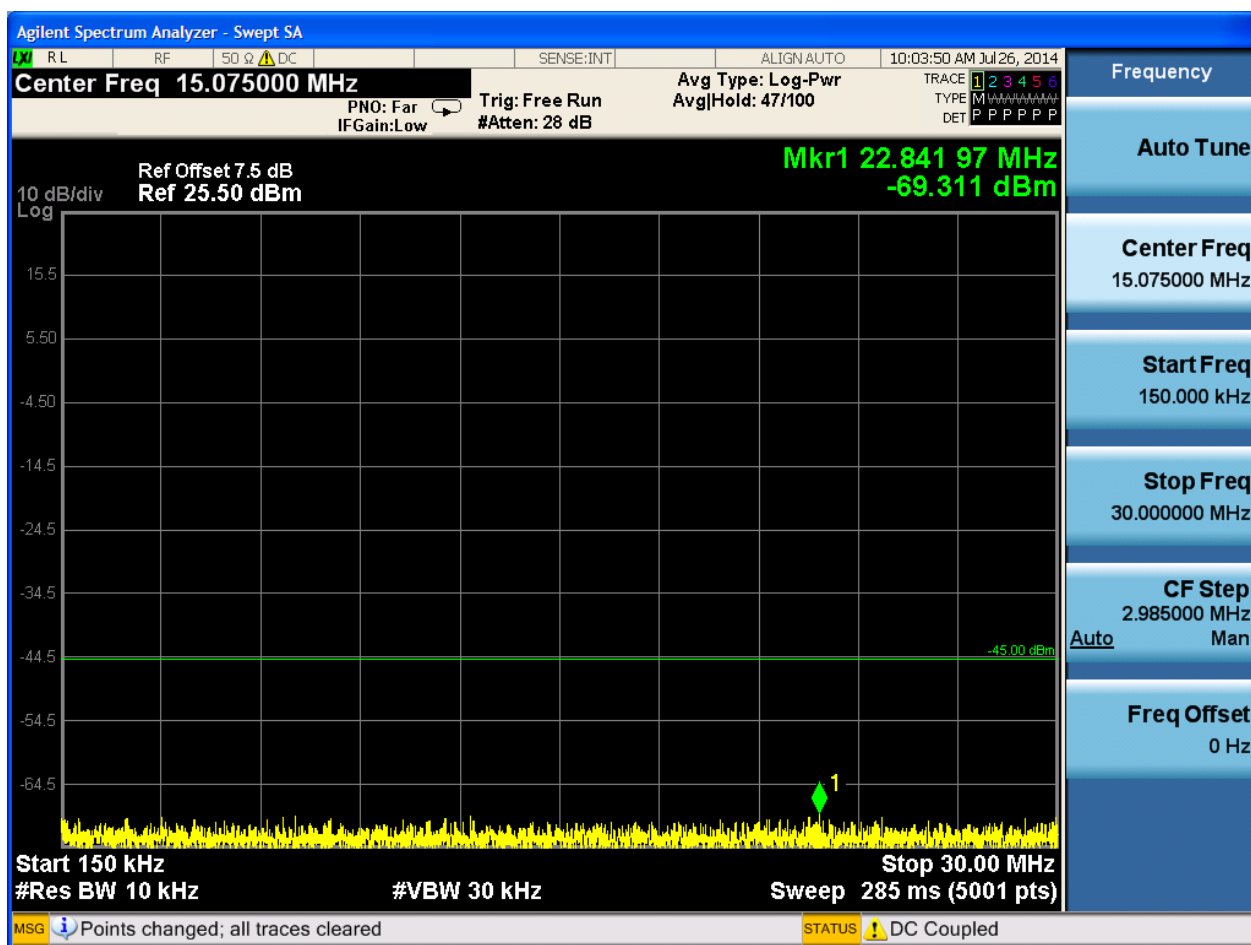


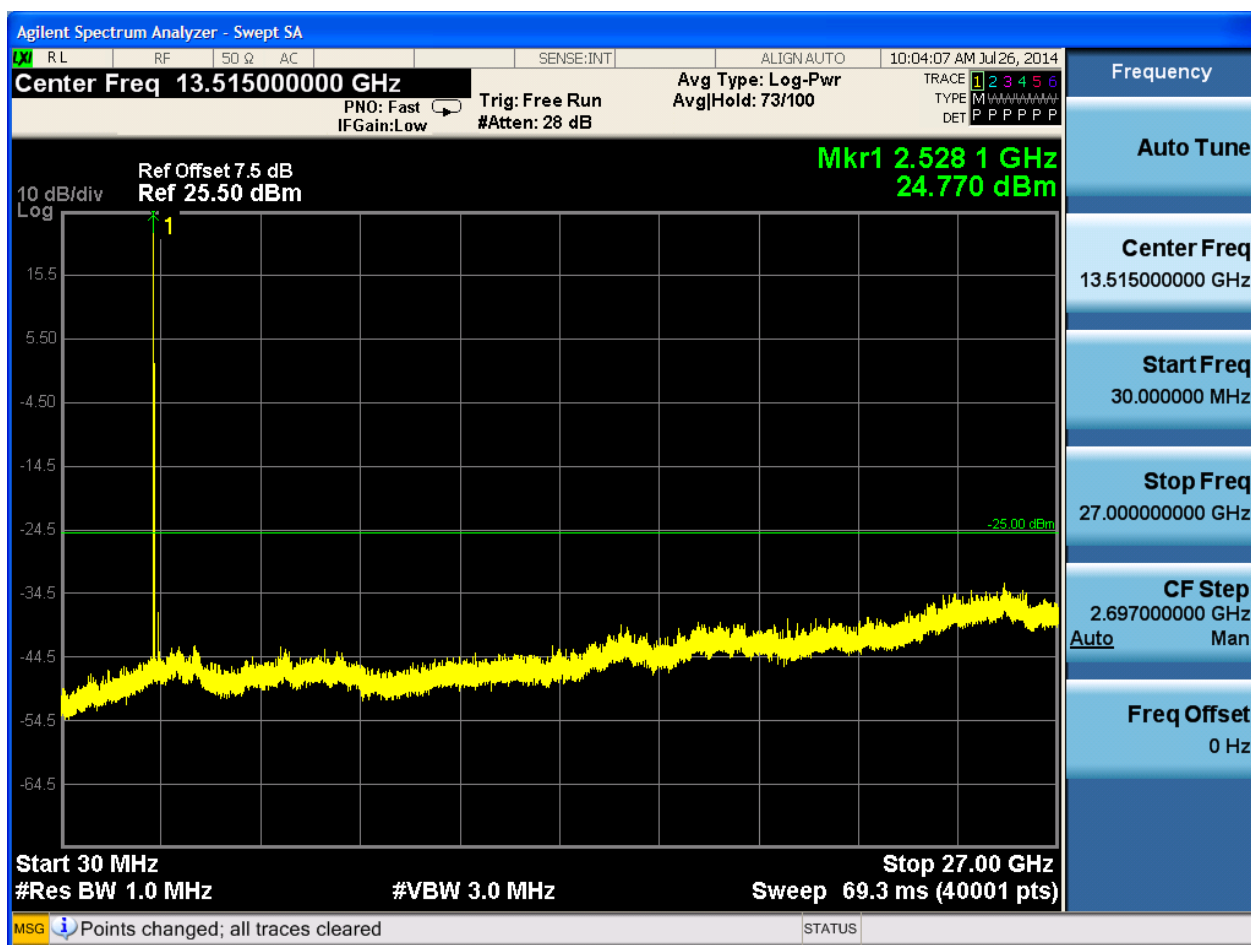


### 6.3.4.1.3.2 Test Channel = MCH

#### 6.3.4.1.3.2.1 Test RB = RB1#0

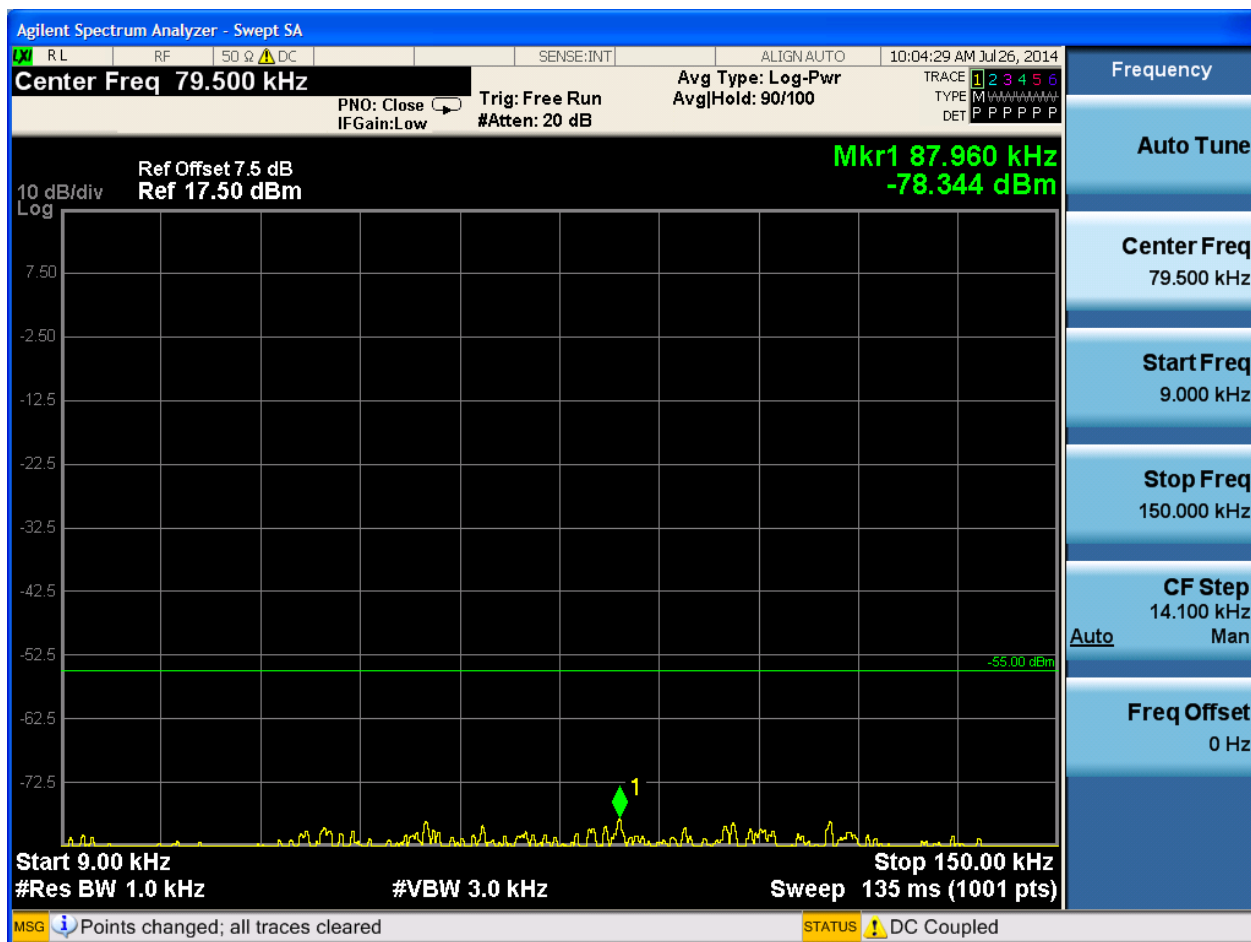


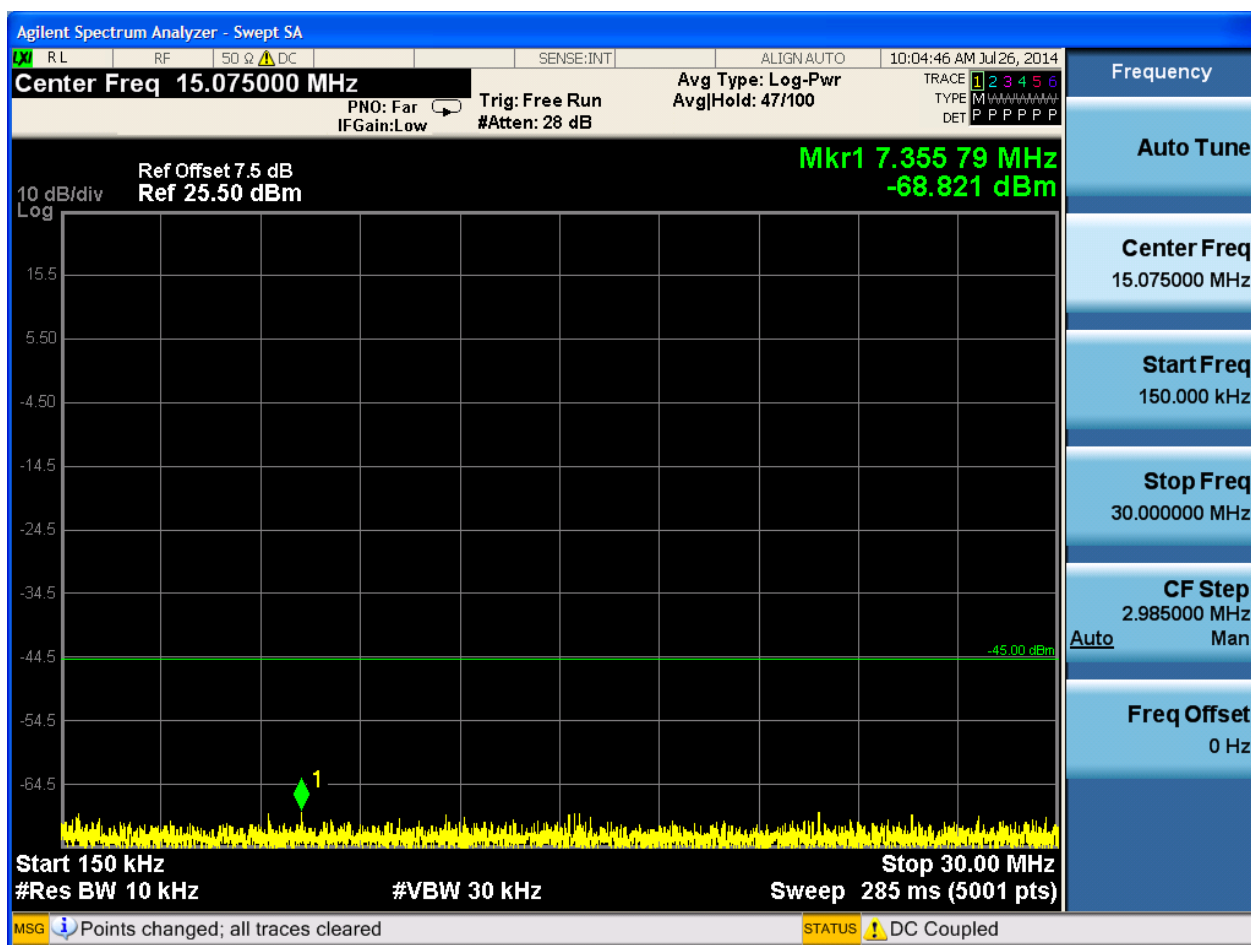


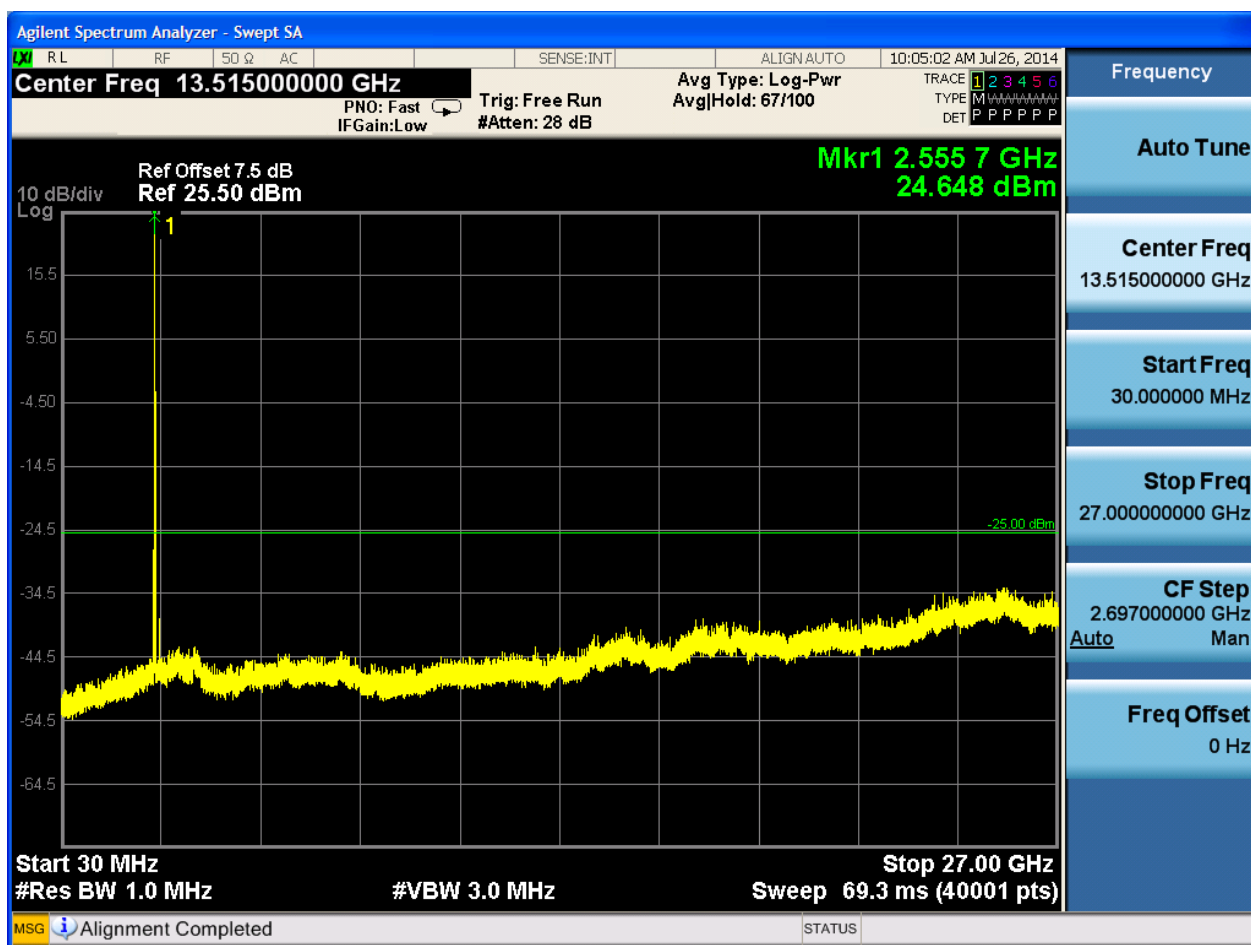


### 6.3.4.1.3.3 Test Channel = HCH

#### 6.3.4.1.3.3.1 Test RB = RB1#0





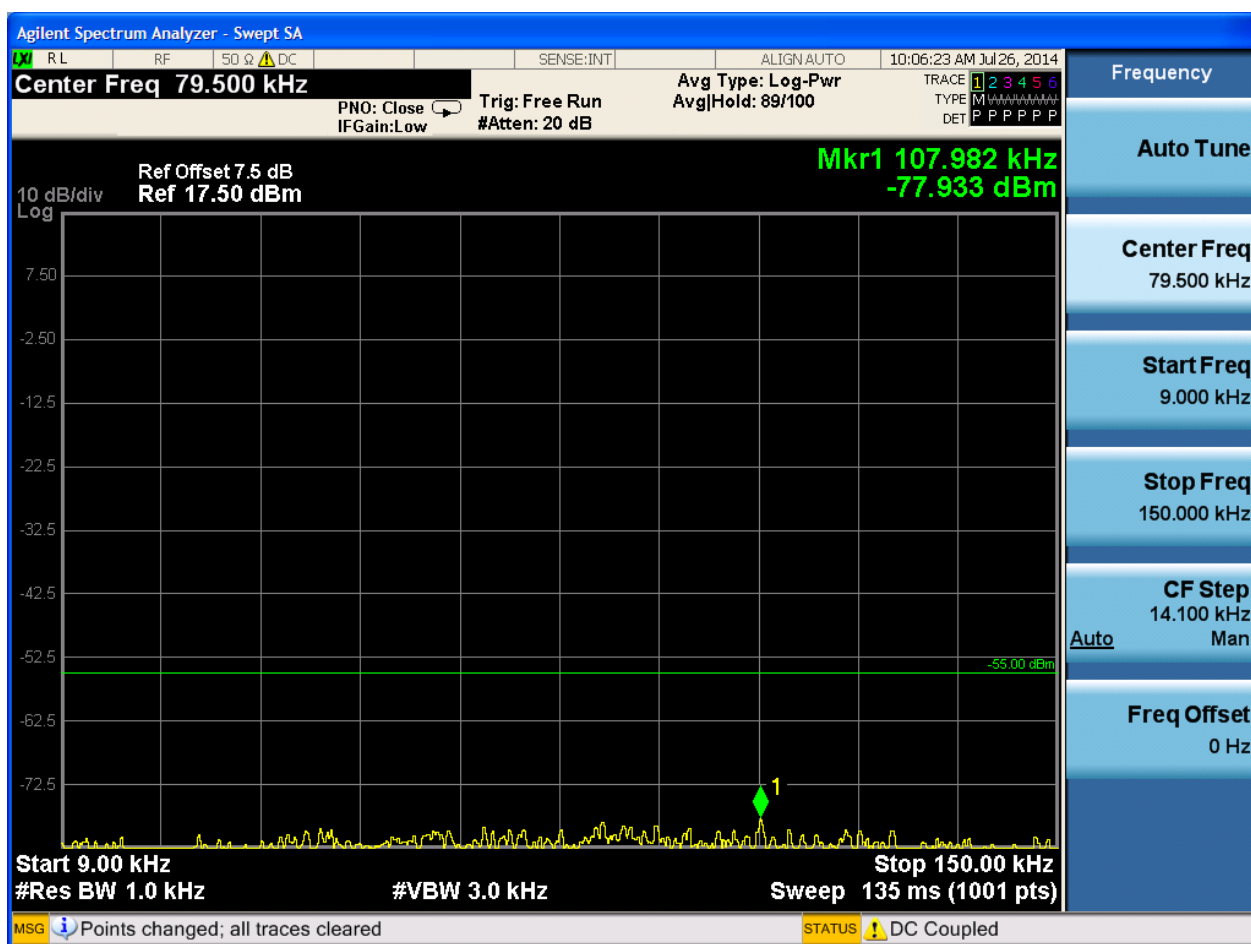


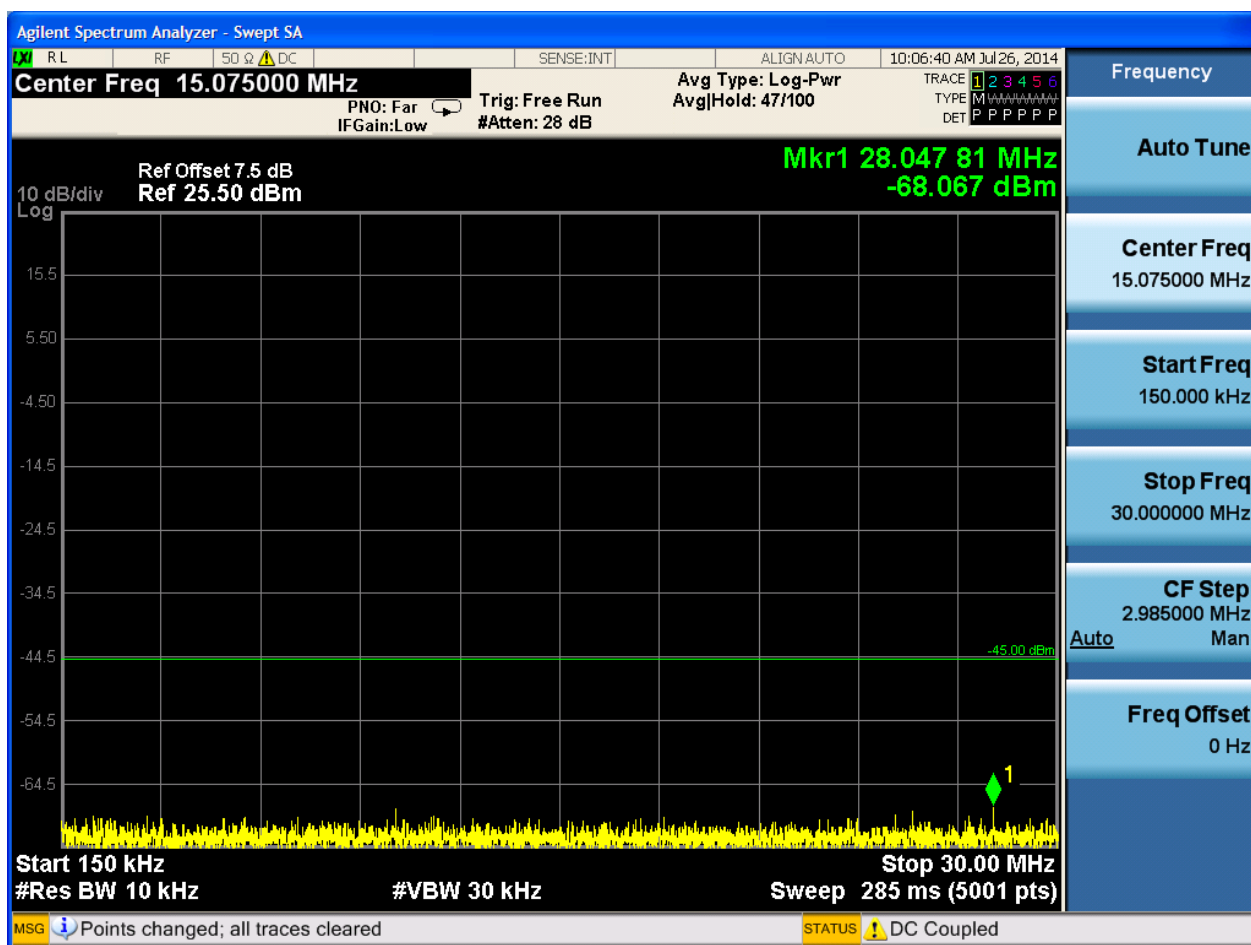


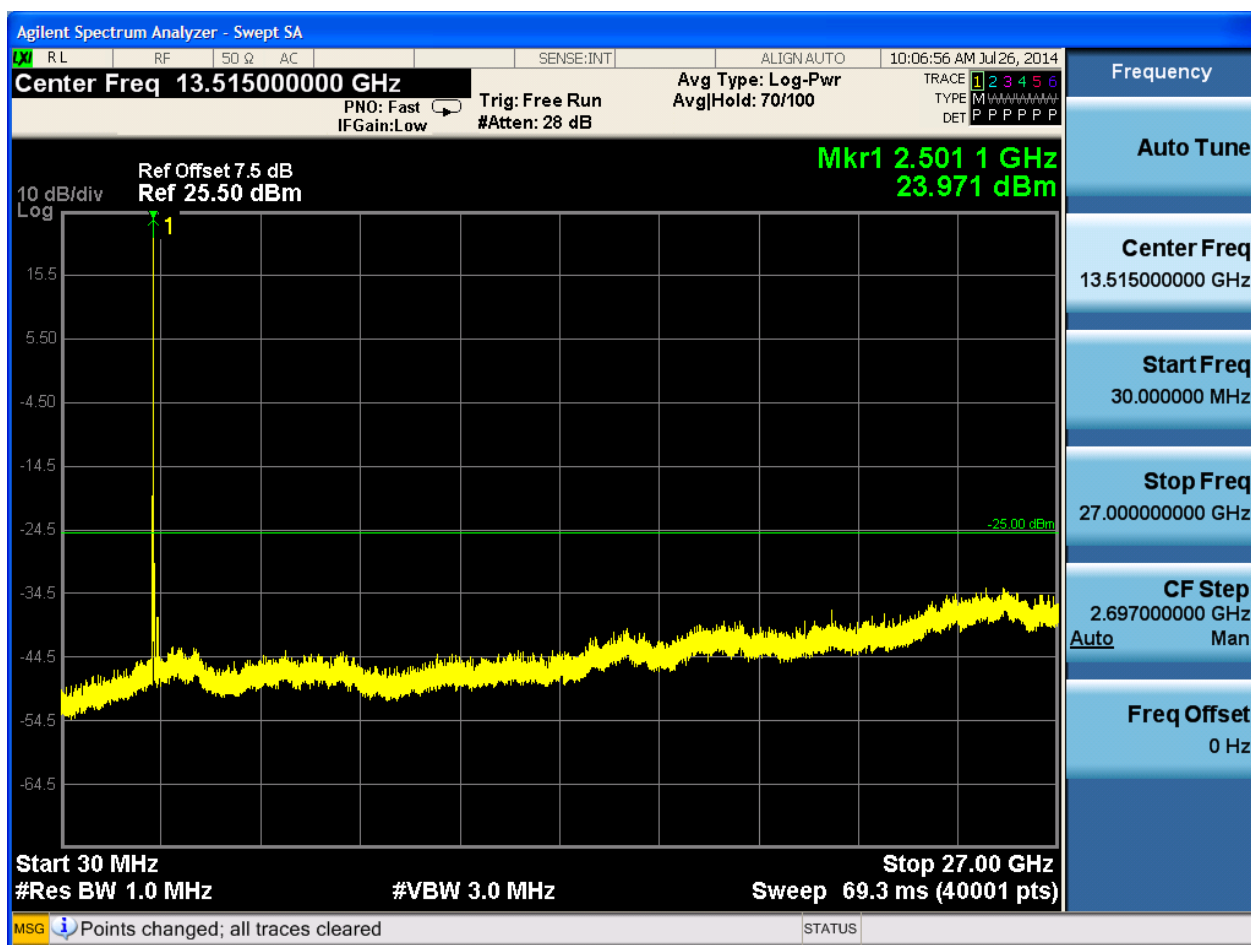
## 6.3.4.1.4 Test Bandwidth = 20

## 6.3.4.1.4.1 Test Channel = LCH

## 6.3.4.1.4.1.1 Test RB = RB1#0



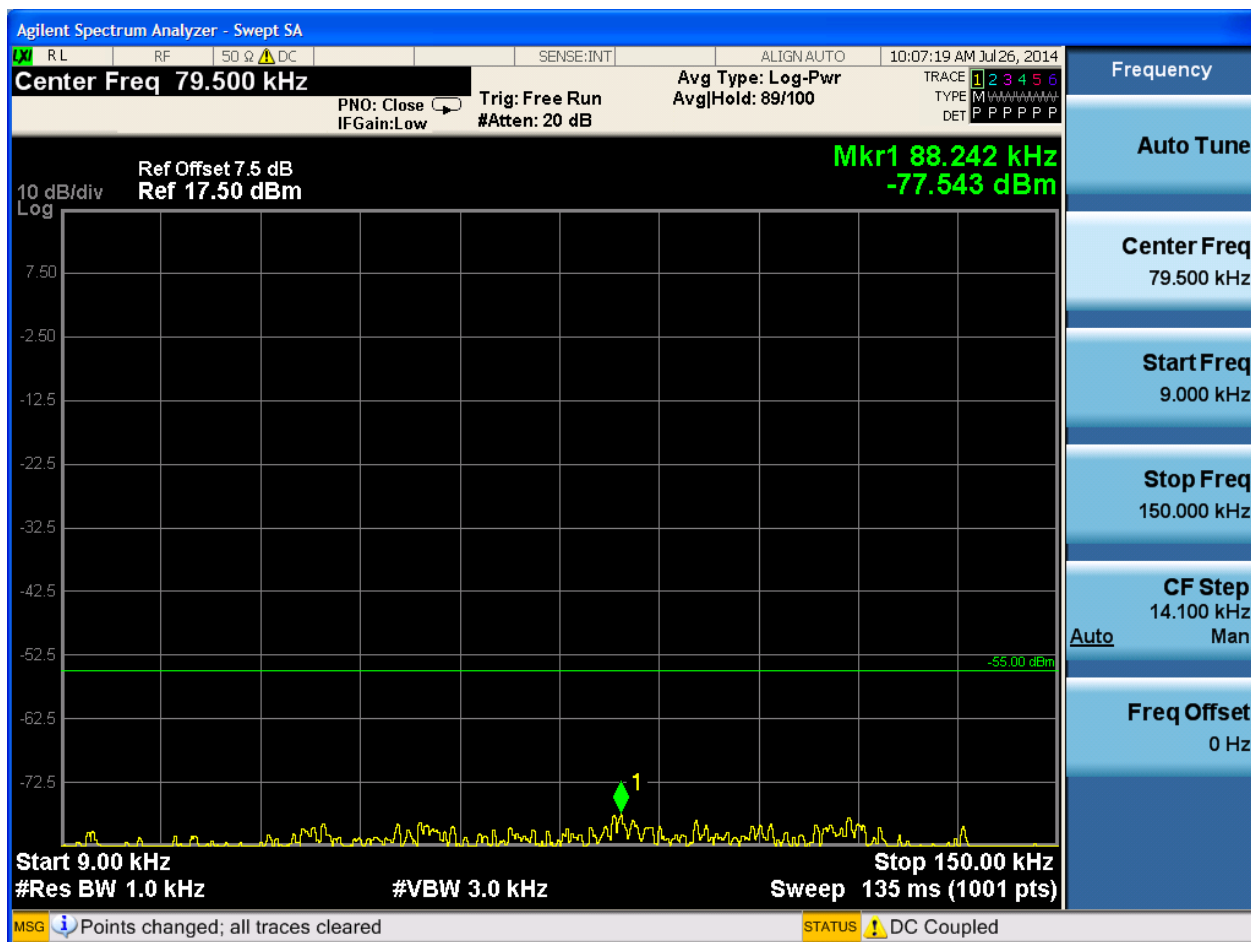


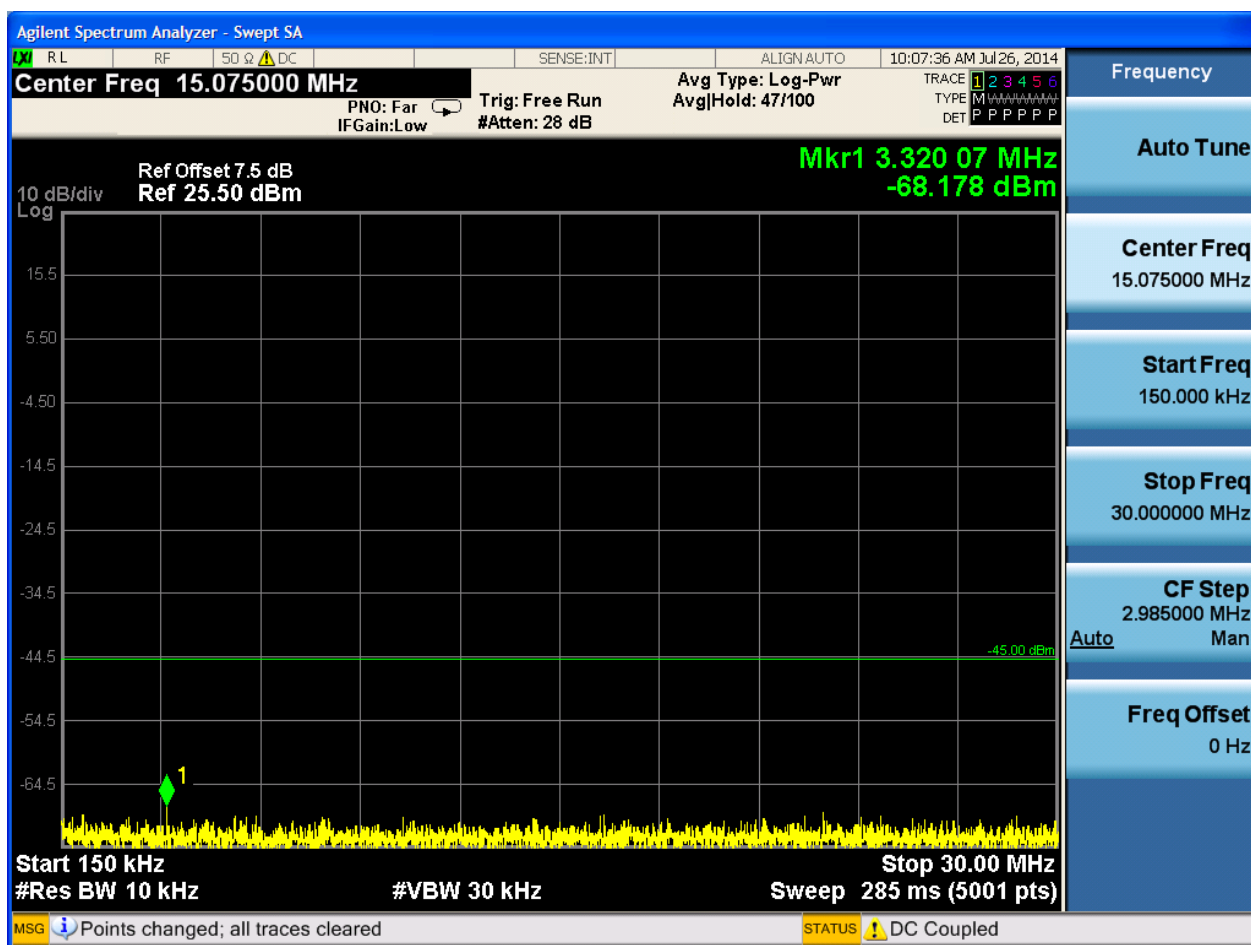


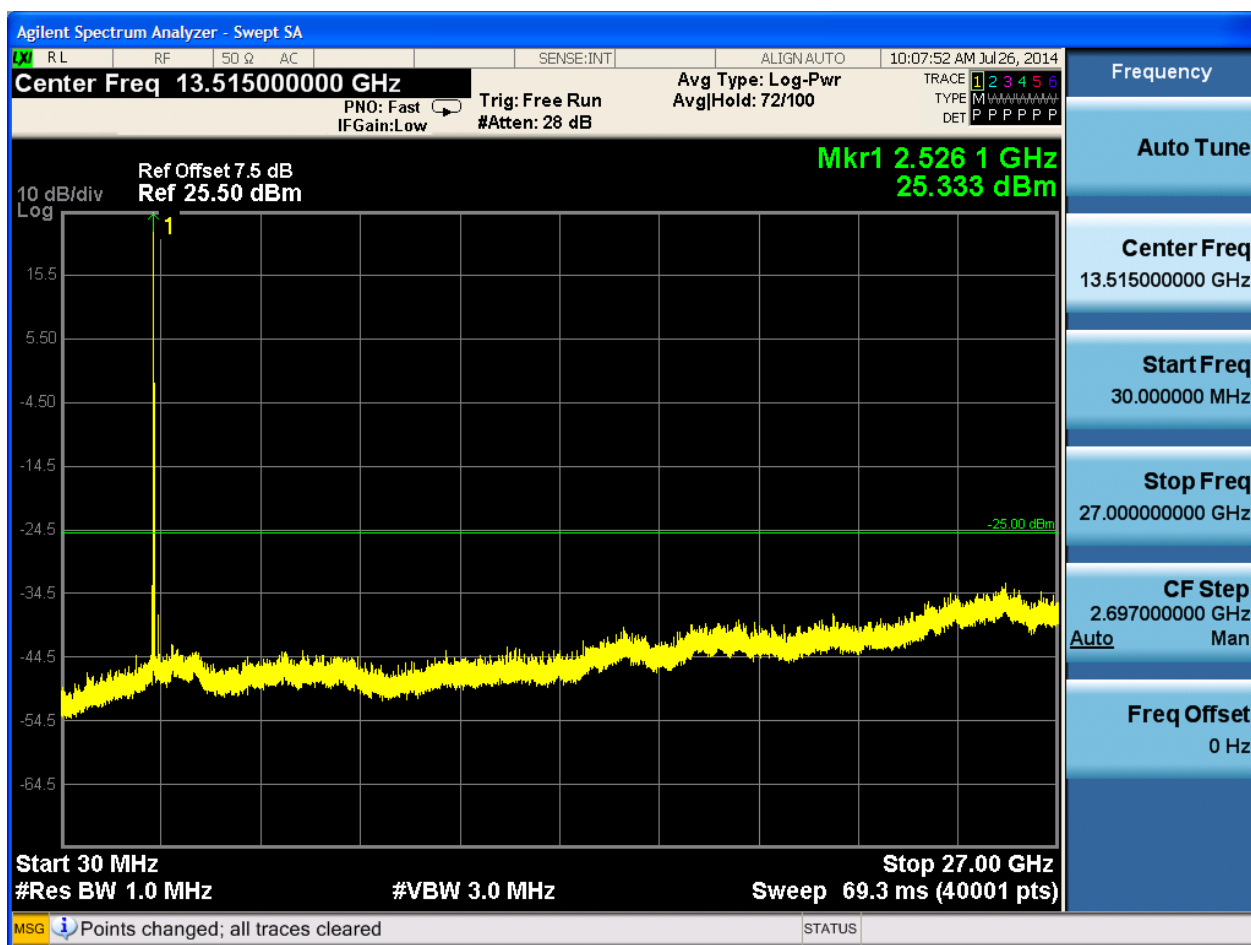


## 6.3.4.1.4.2 Test Channel = MCH

## 6.3.4.1.4.2.1 Test RB = RB1#0





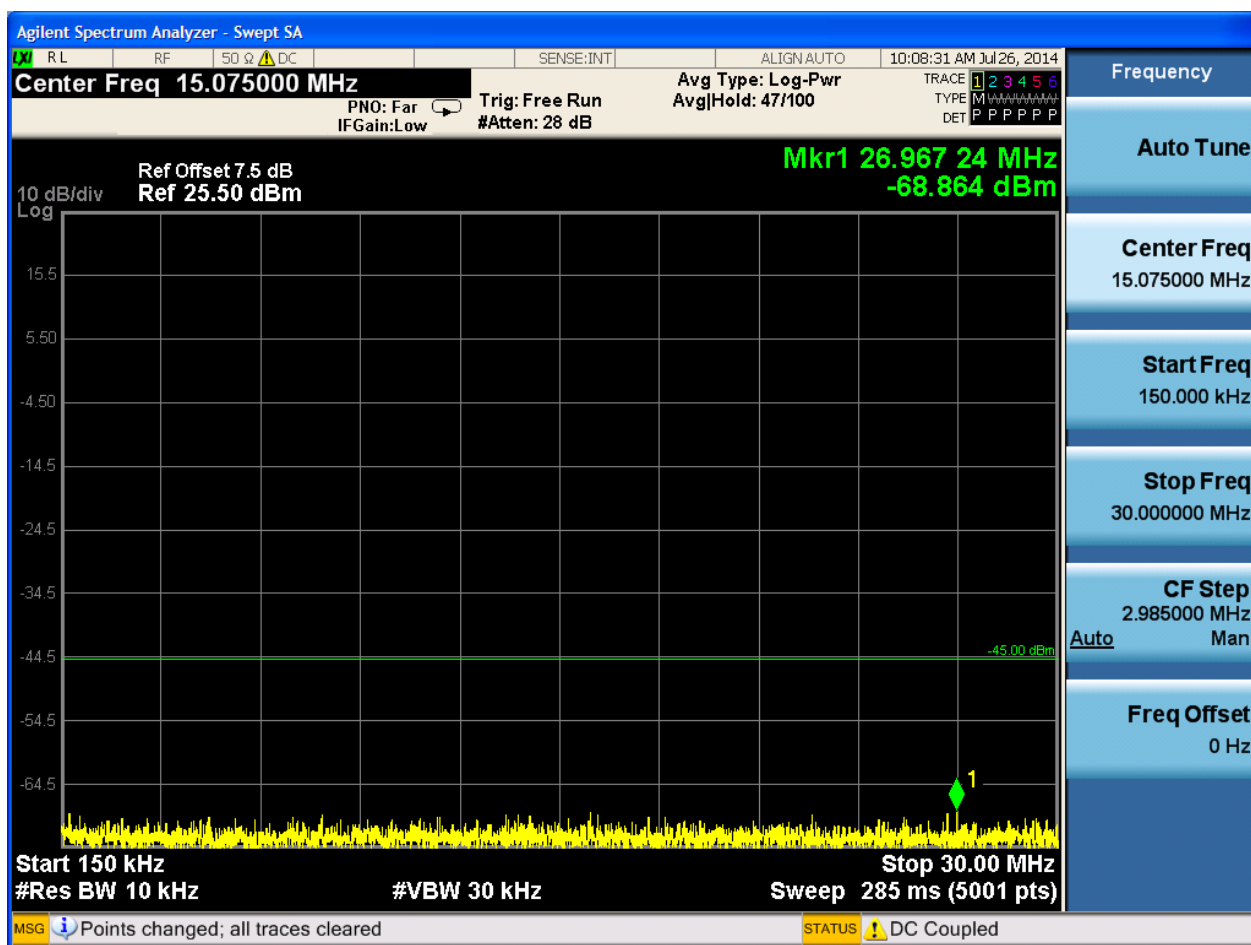


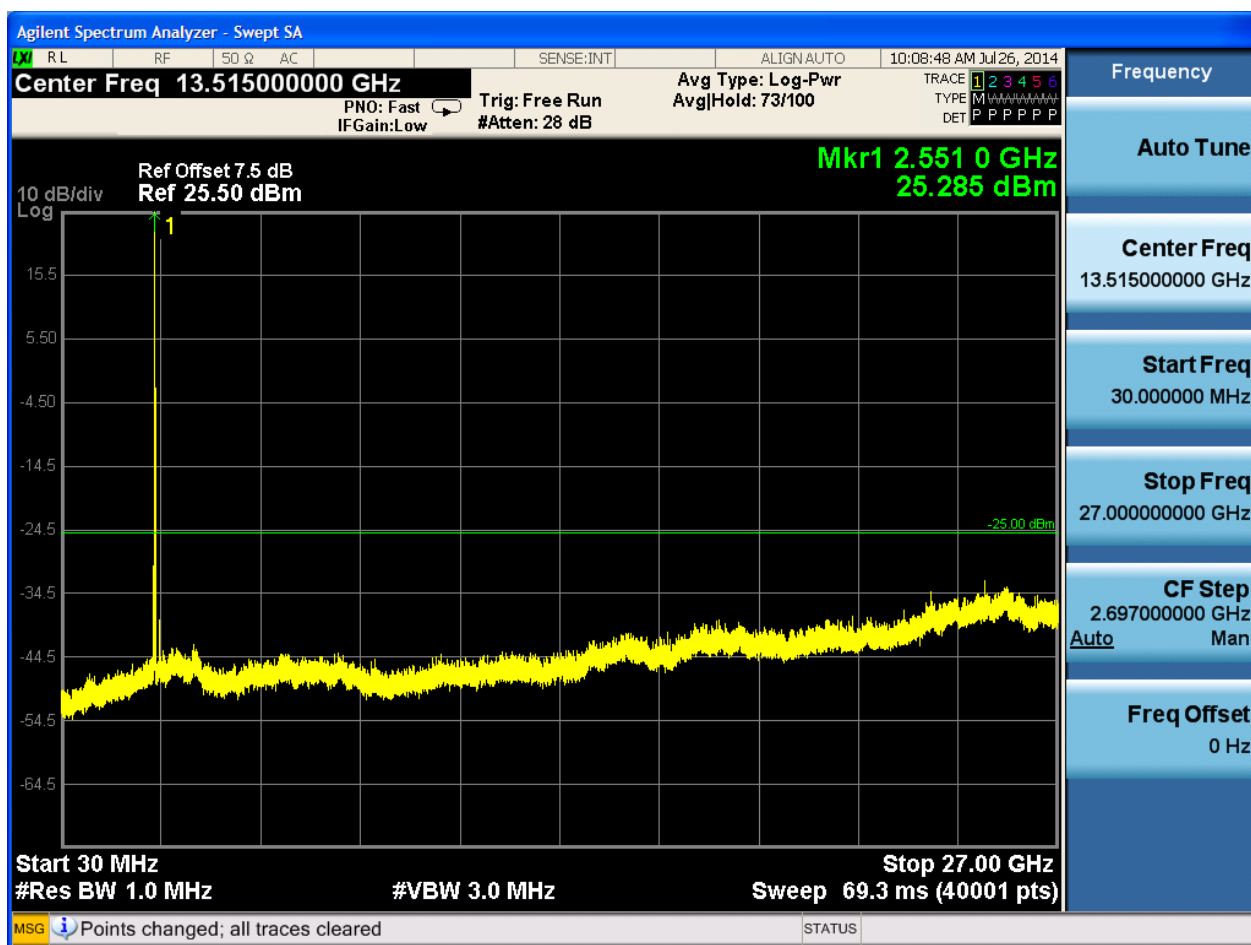


## 6.3.4.1.4.3 Test Channel = HCH

## 6.3.4.1.4.3.1 Test RB = RB1#0





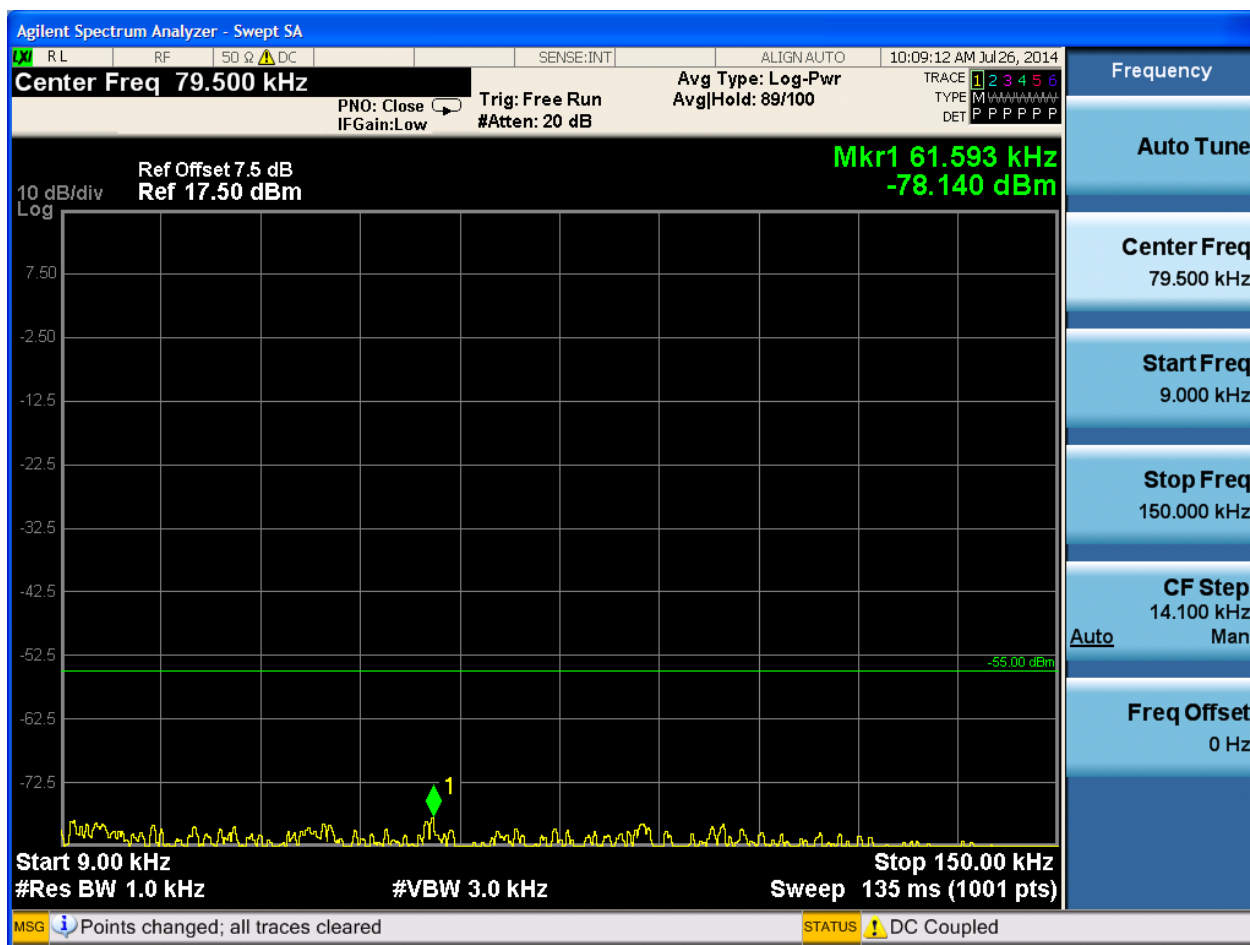


### 6.3.4.2 Test Mode = LTE/TM2

#### 6.3.4.2.1 Test Bandwidth = 5

##### 6.3.4.2.1.1 Test Channel = LCH

##### 6.3.4.2.1.1.1 Test RB = RB1#0



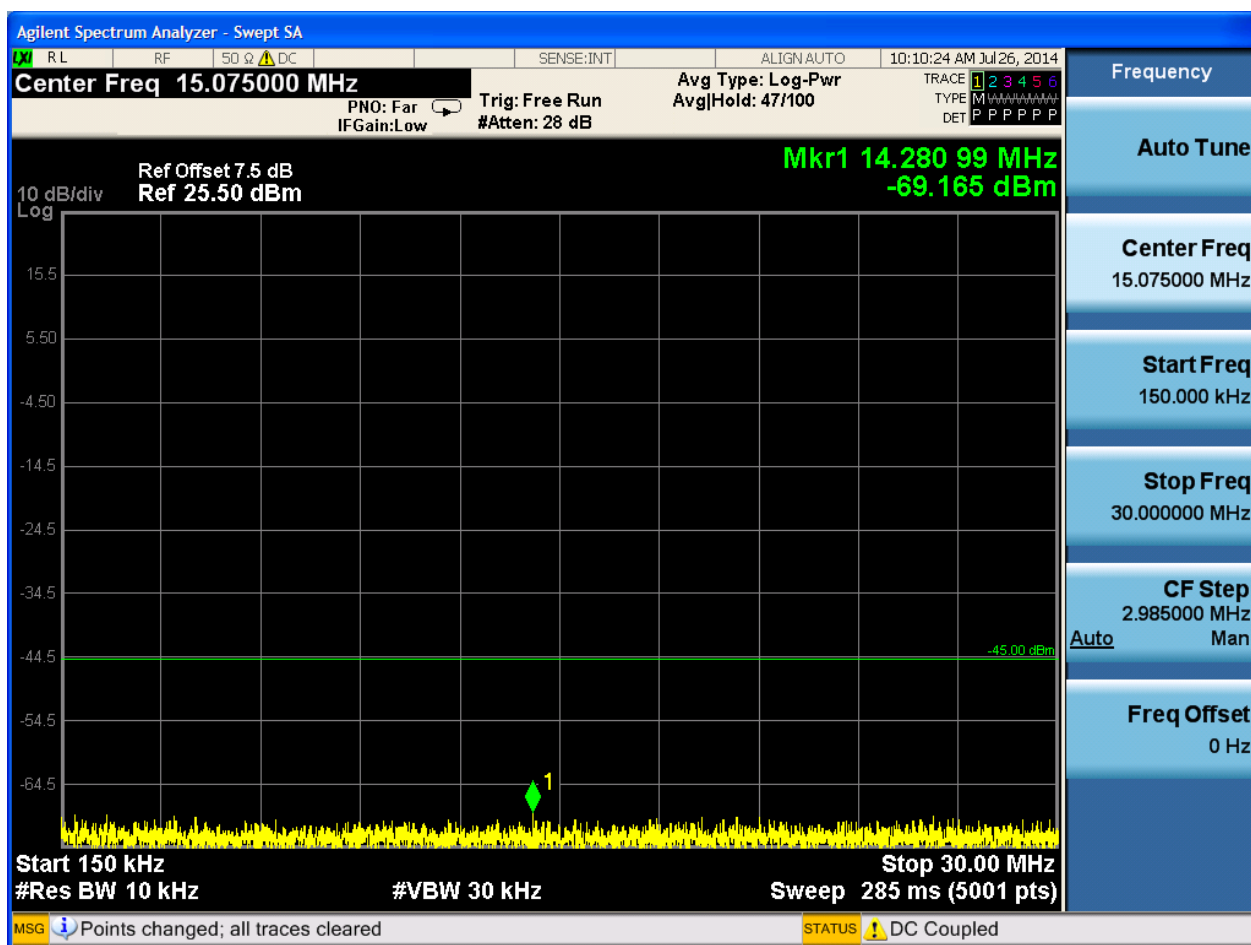


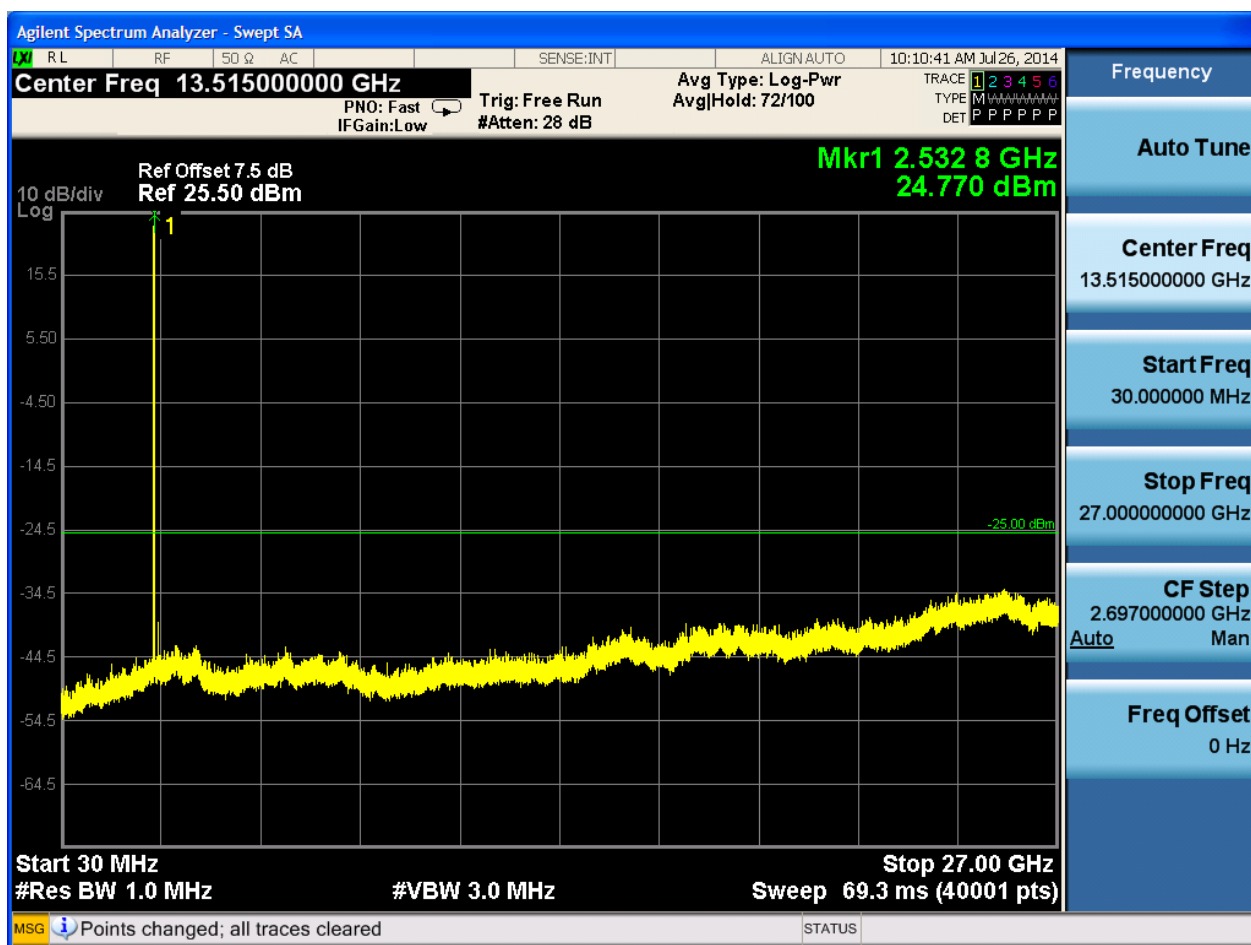


### 6.3.4.2.1.2 Test Channel = MCH

#### 6.3.4.2.1.2.1 Test RB = RB1#0

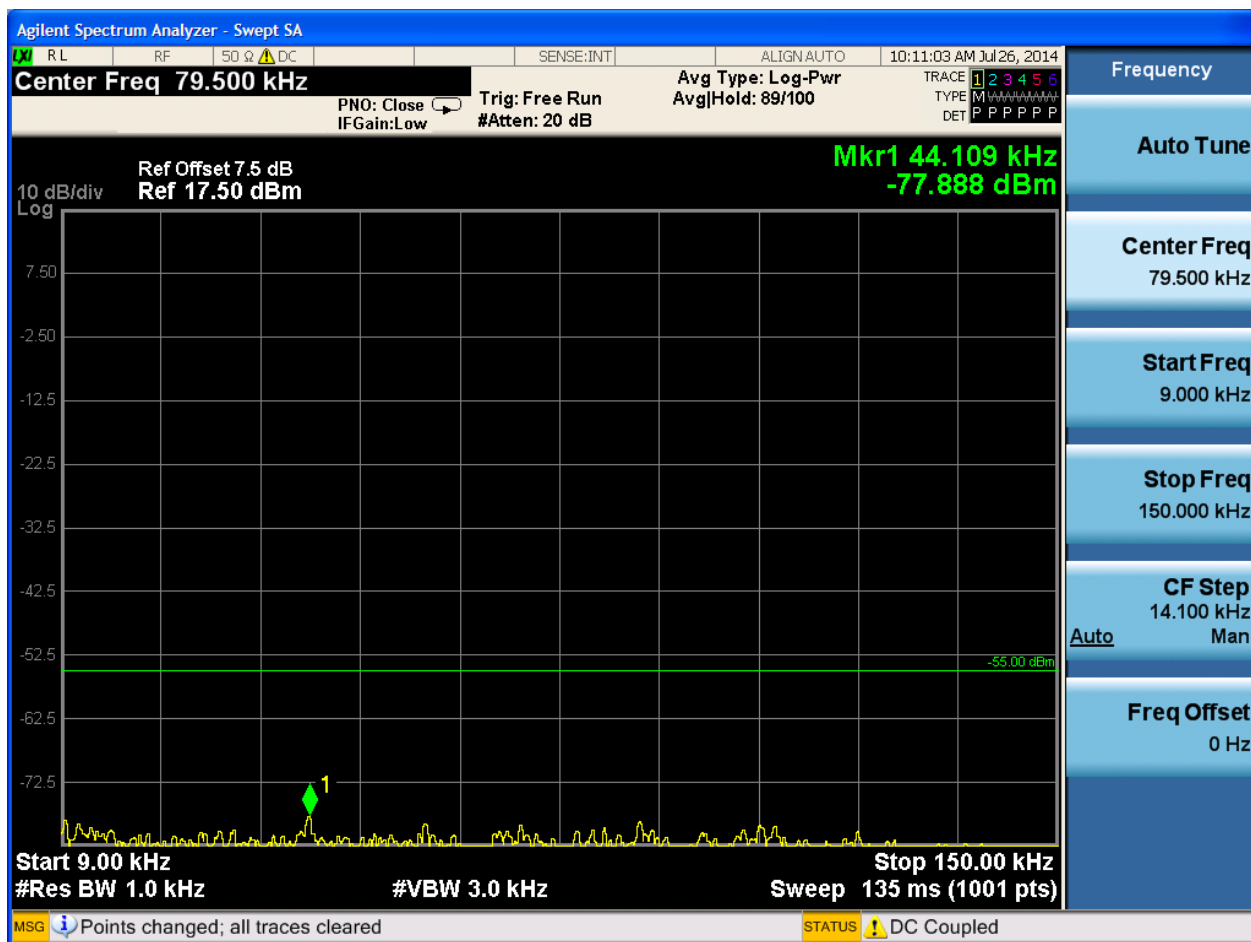






### 6.3.4.2.1.3 Test Channel = HCH

#### 6.3.4.2.1.3.1 Test RB = RB1#0



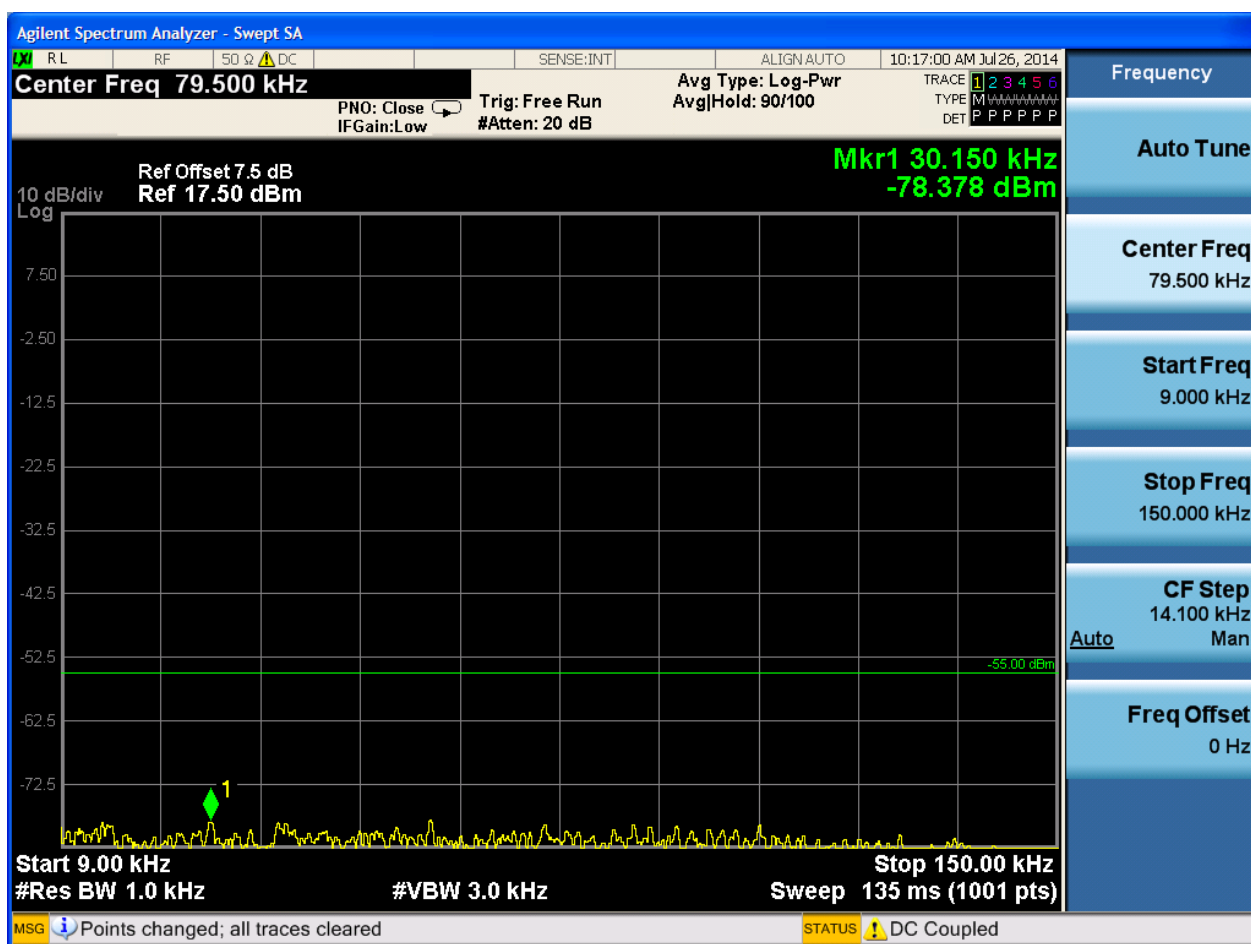


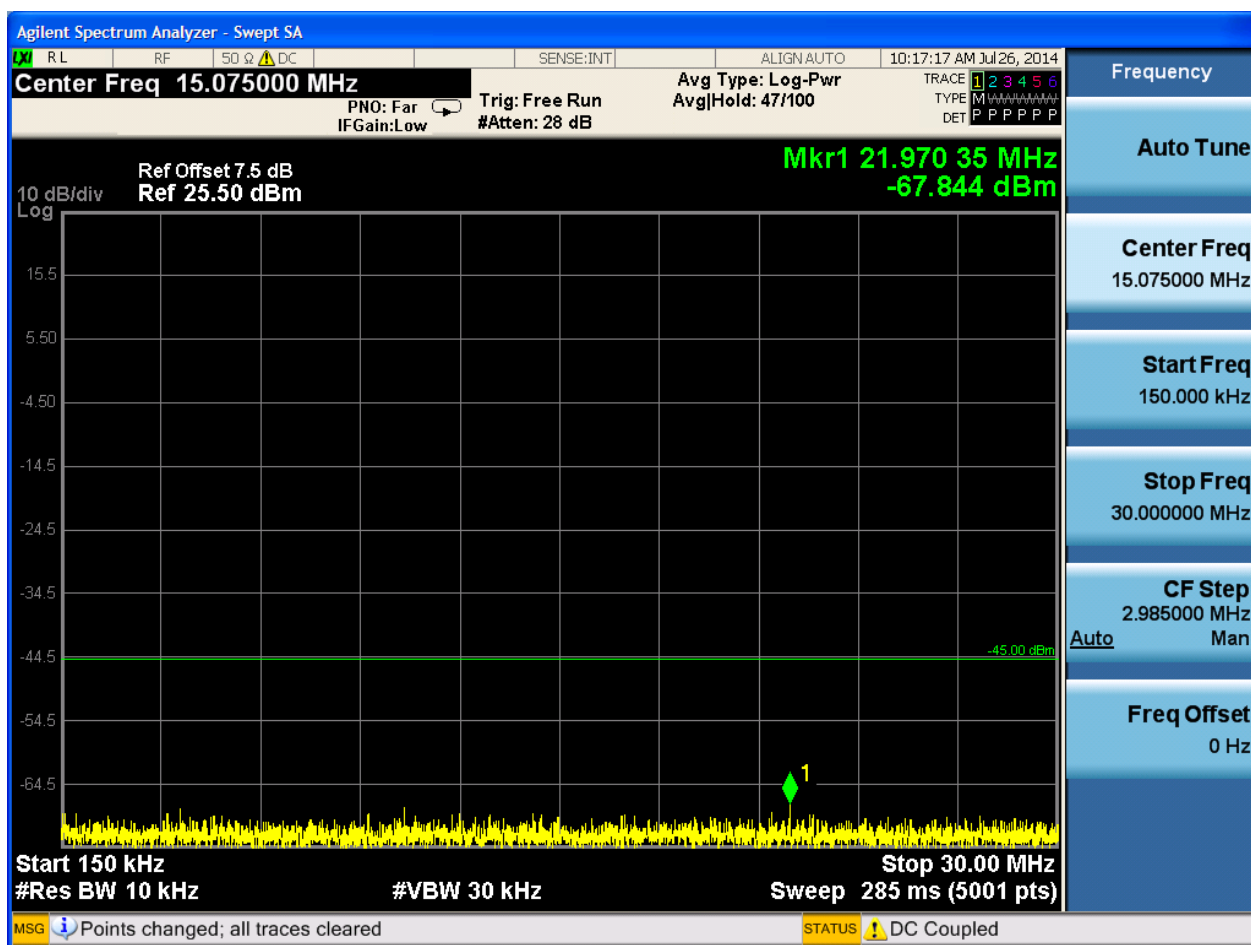


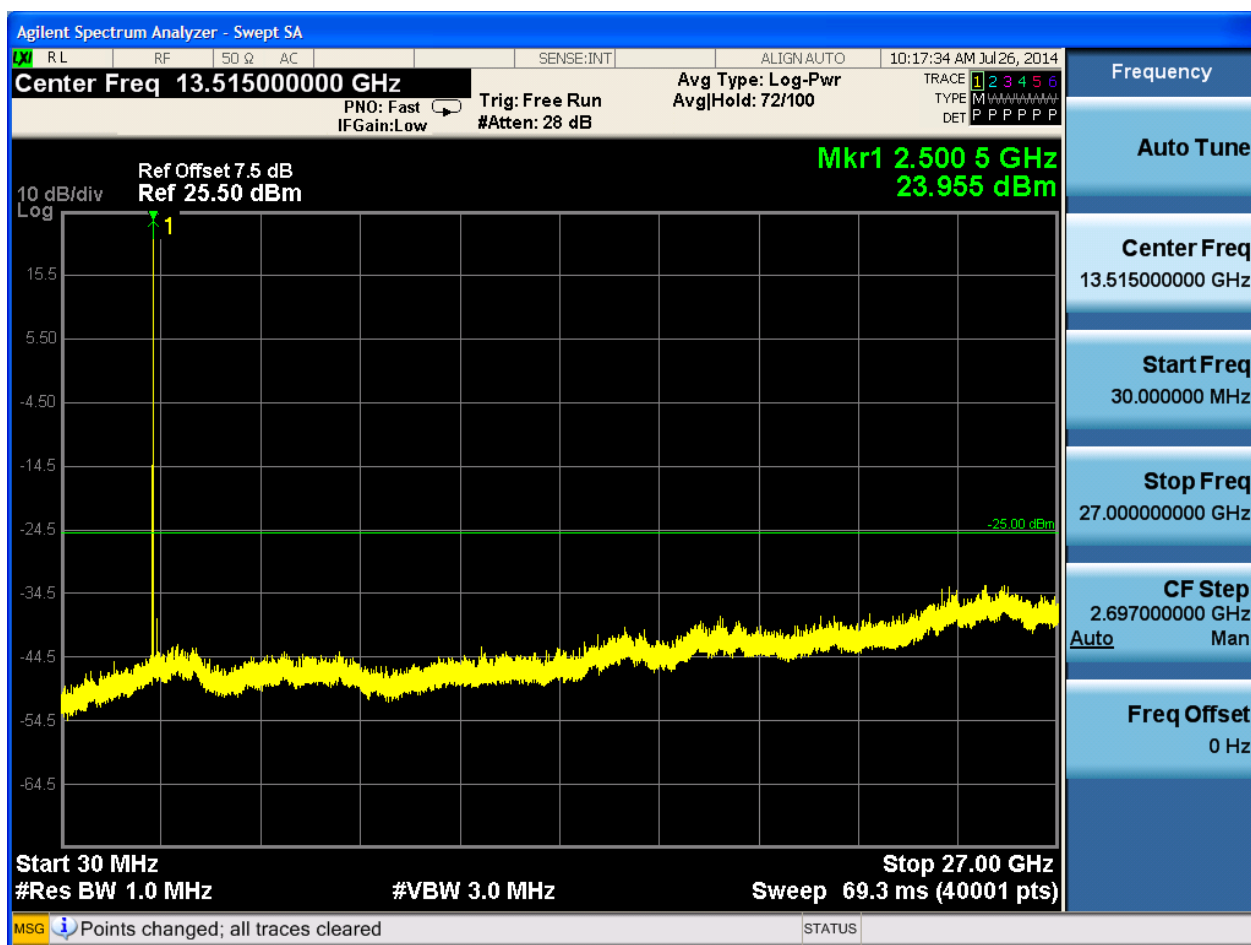
### 6.3.4.2.2 Test Bandwidth = 10

#### 6.3.4.2.2.1 Test Channel = LCH

##### 6.3.4.2.2.1.1 Test RB = RB1#0



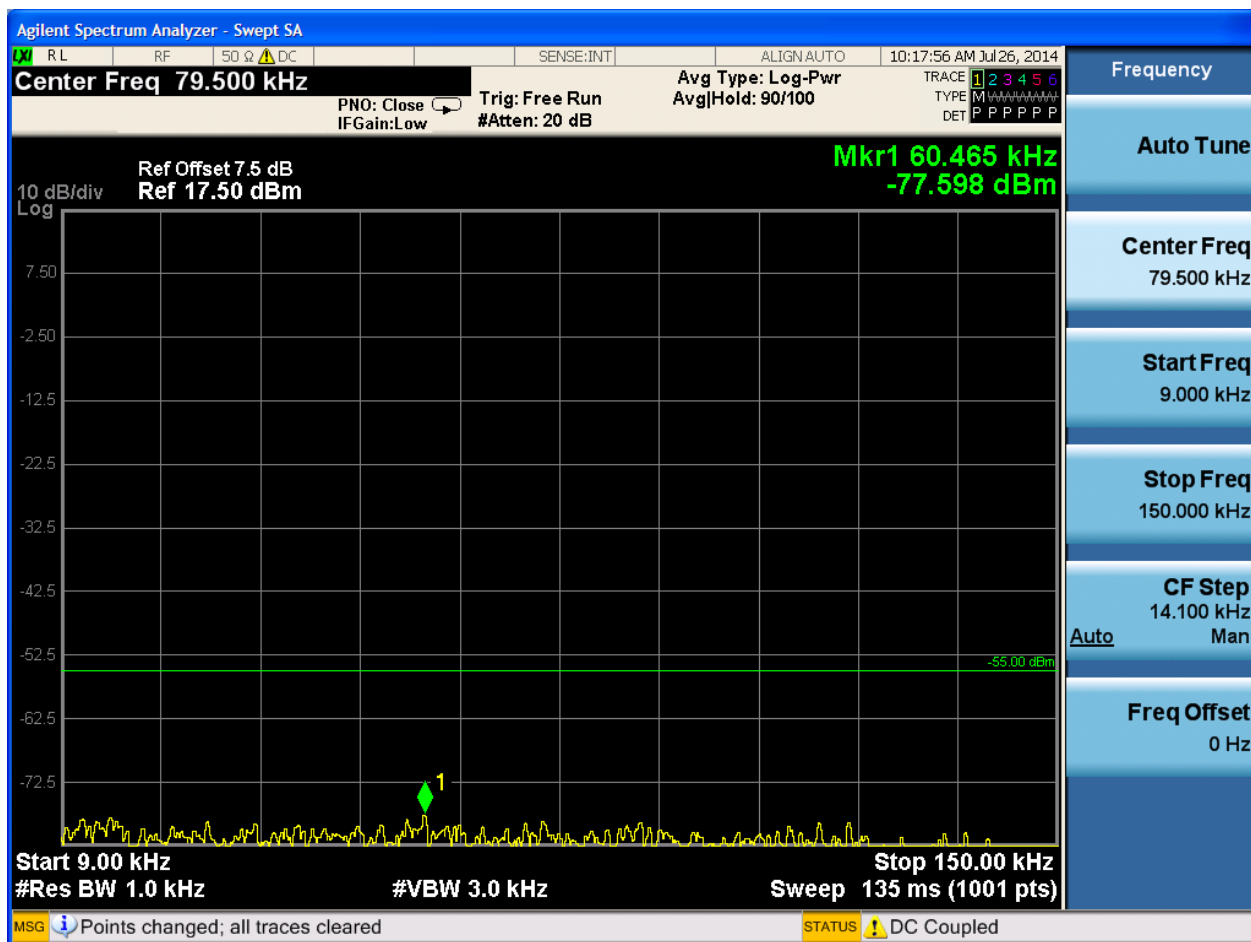






## 6.3.4.2.2.2 Test Channel = MCH

## 6.3.4.2.2.2.1 Test RB = RB1#0



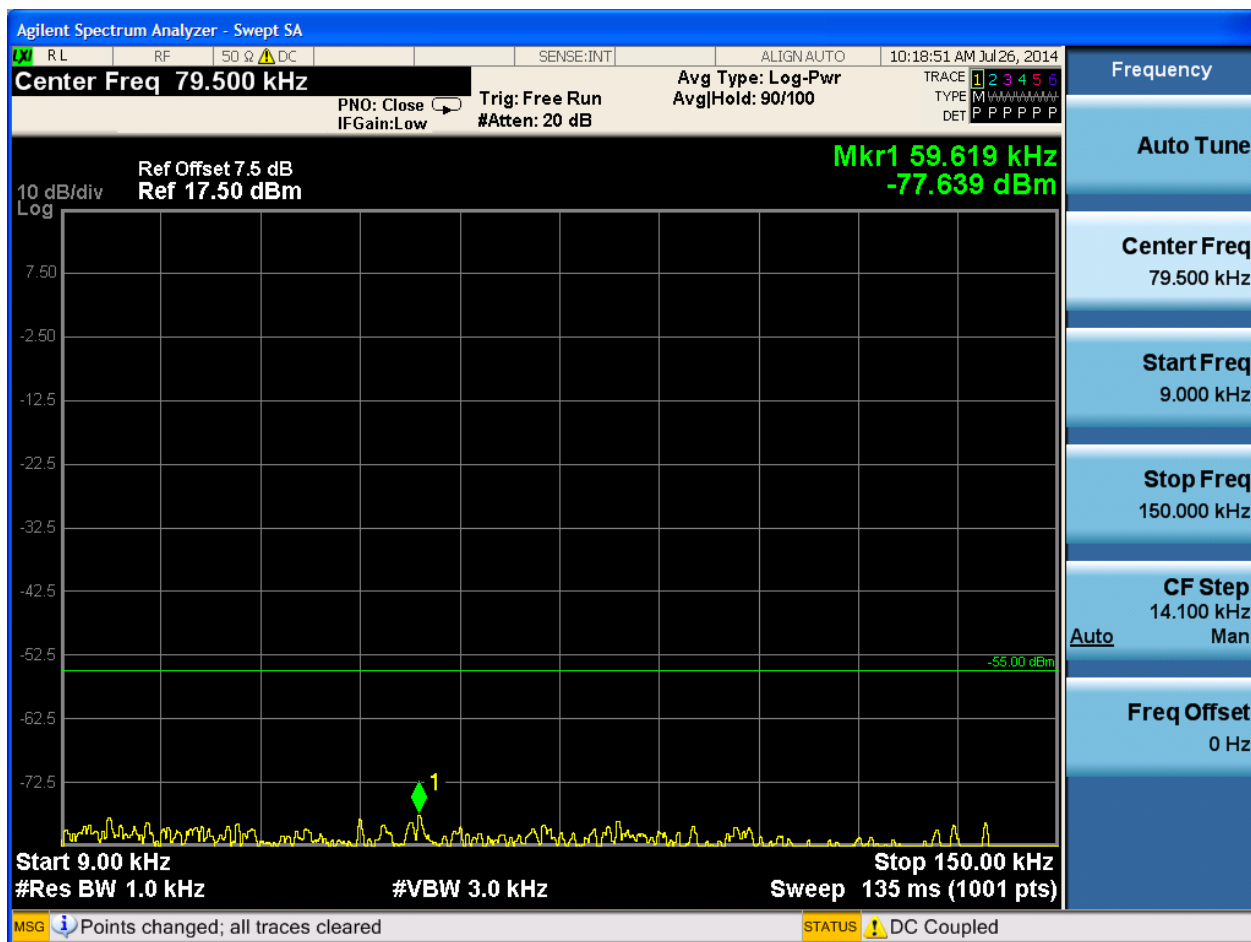


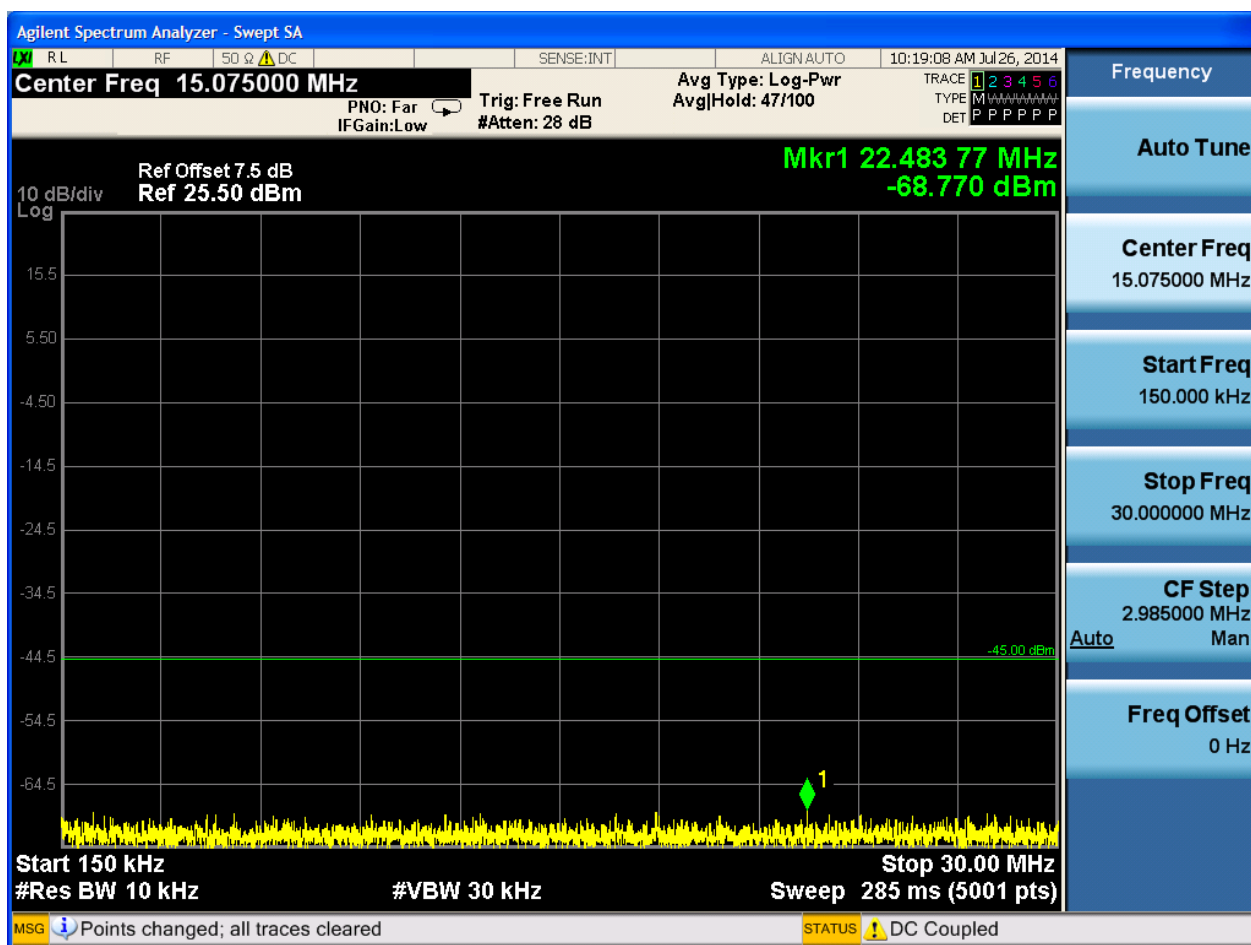


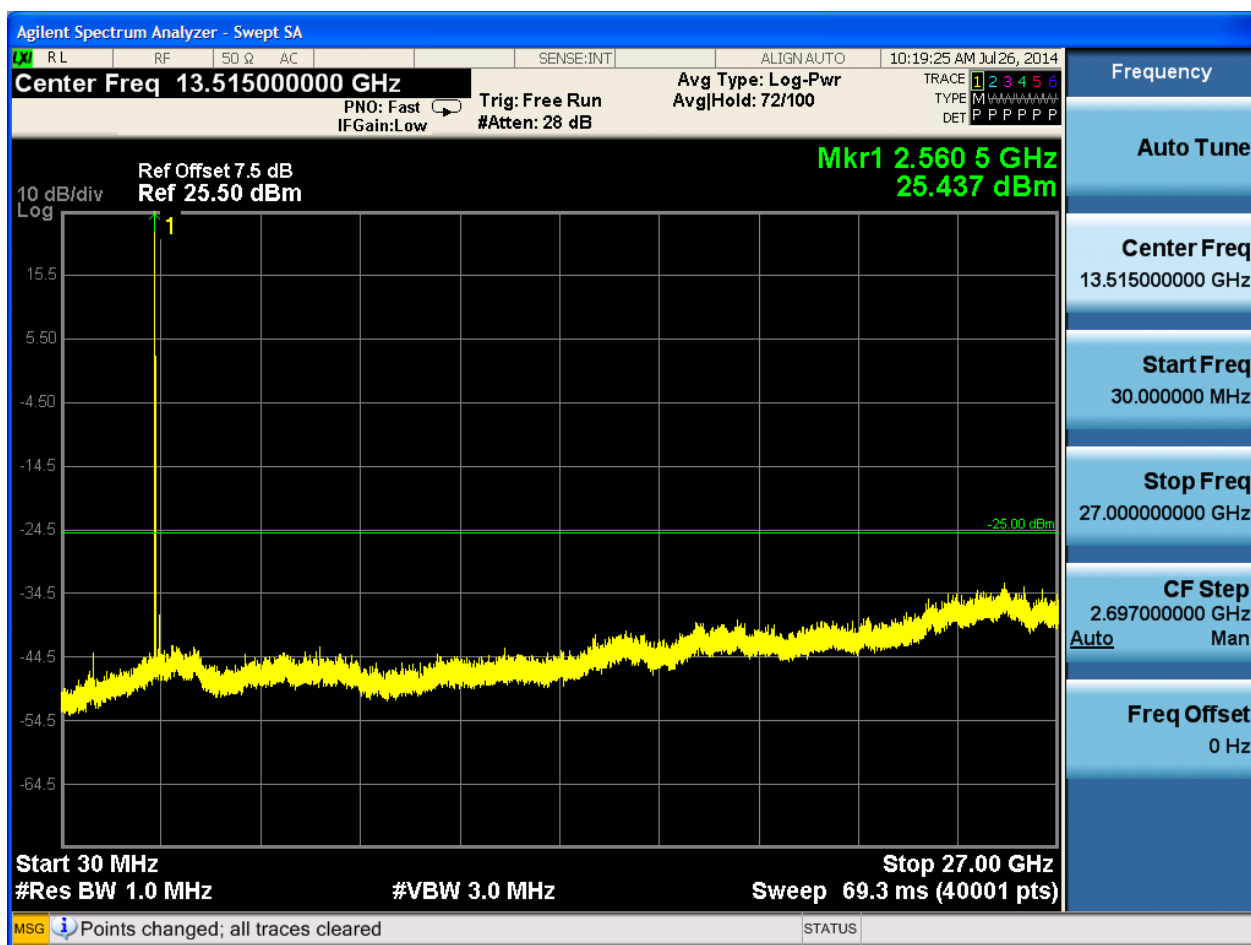


## 6.3.4.2.2.3 Test Channel = HCH

## 6.3.4.2.2.3.1 Test RB = RB1#0





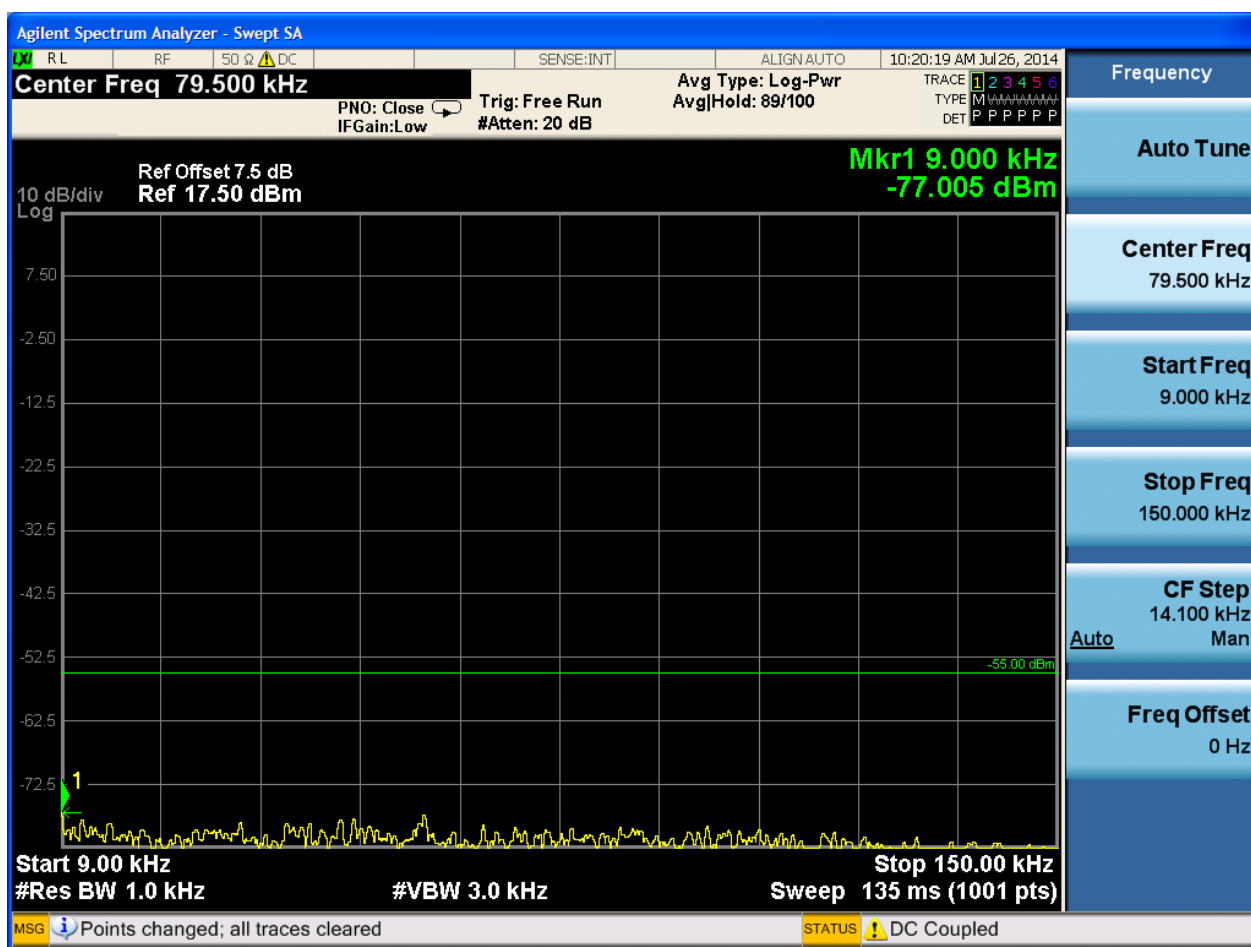


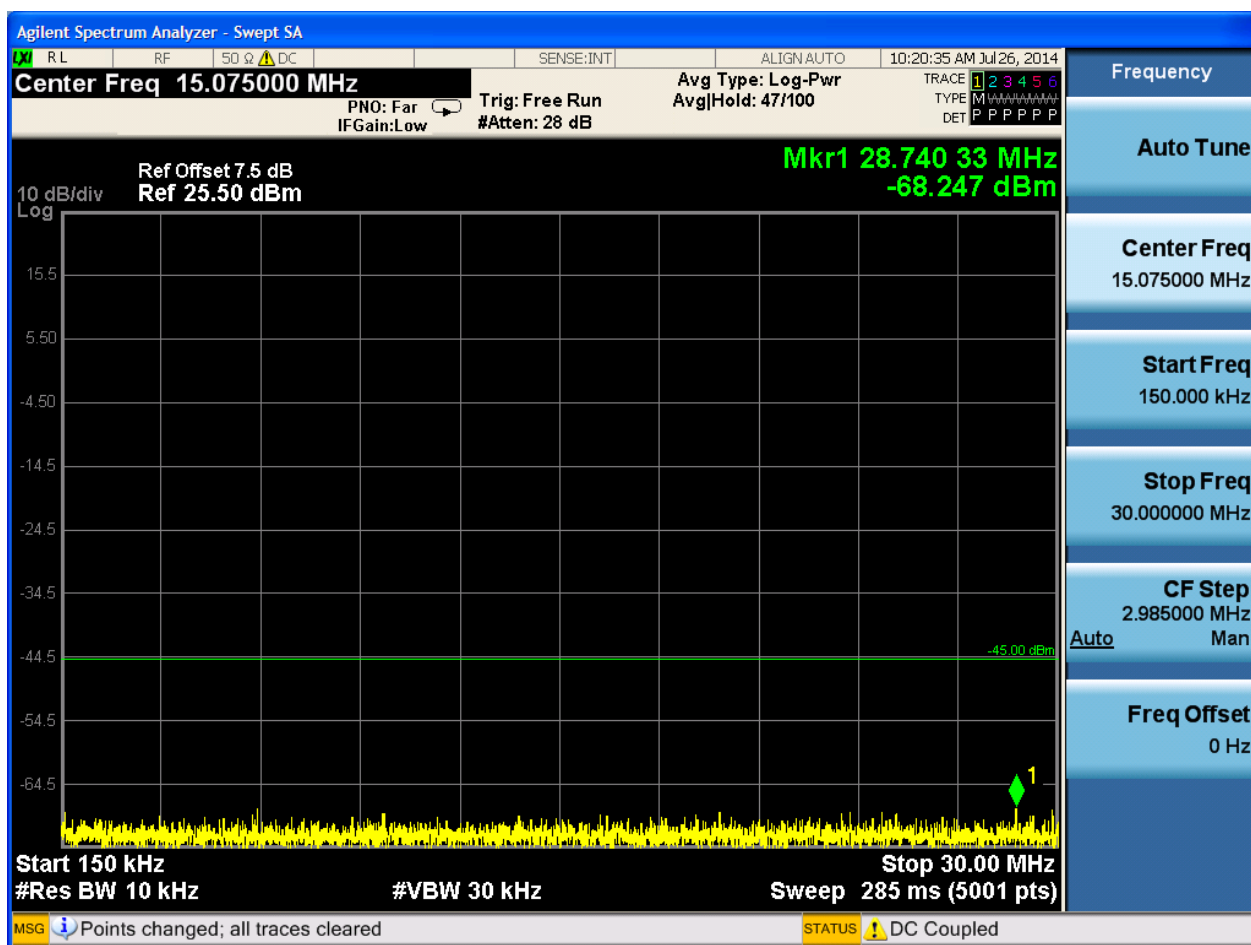


## 6.3.4.2.3 Test Bandwidth = 15

## 6.3.4.2.3.1 Test Channel = LCH

## 6.3.4.2.3.1.1 Test RB = RB1#0





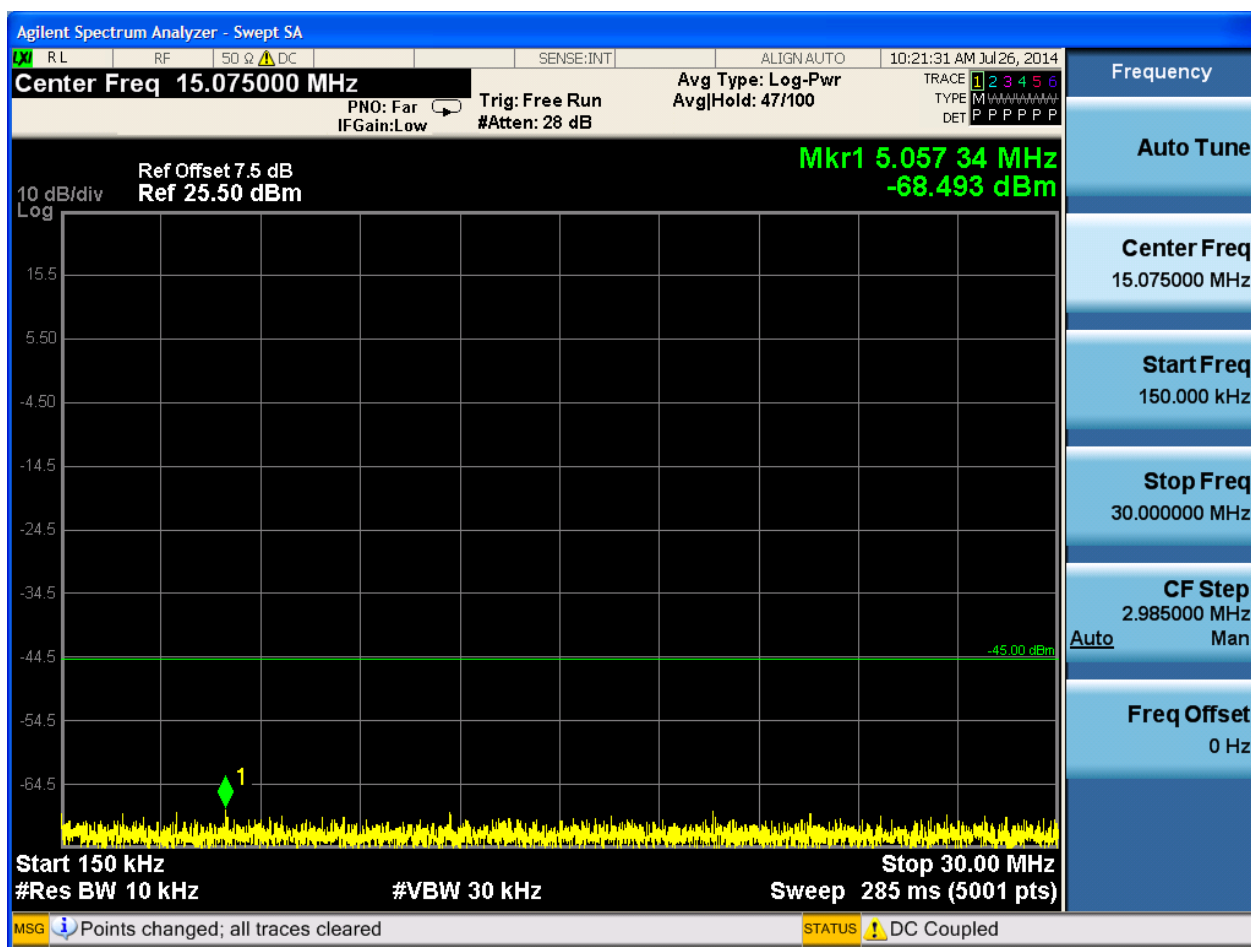




## 6.3.4.2.3.2 Test Channel = MCH

## 6.3.4.2.3.2.1 Test RB = RB1#0



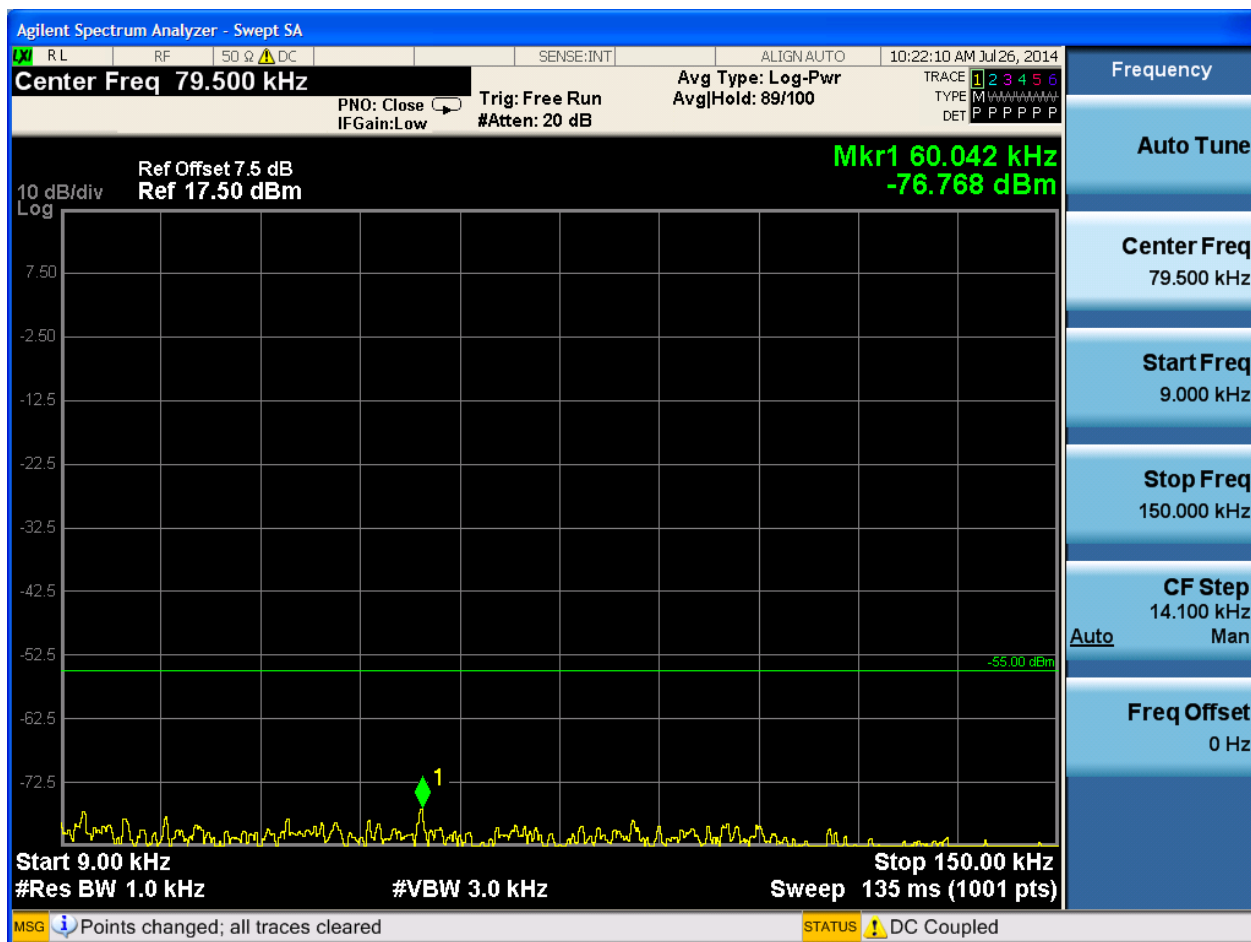


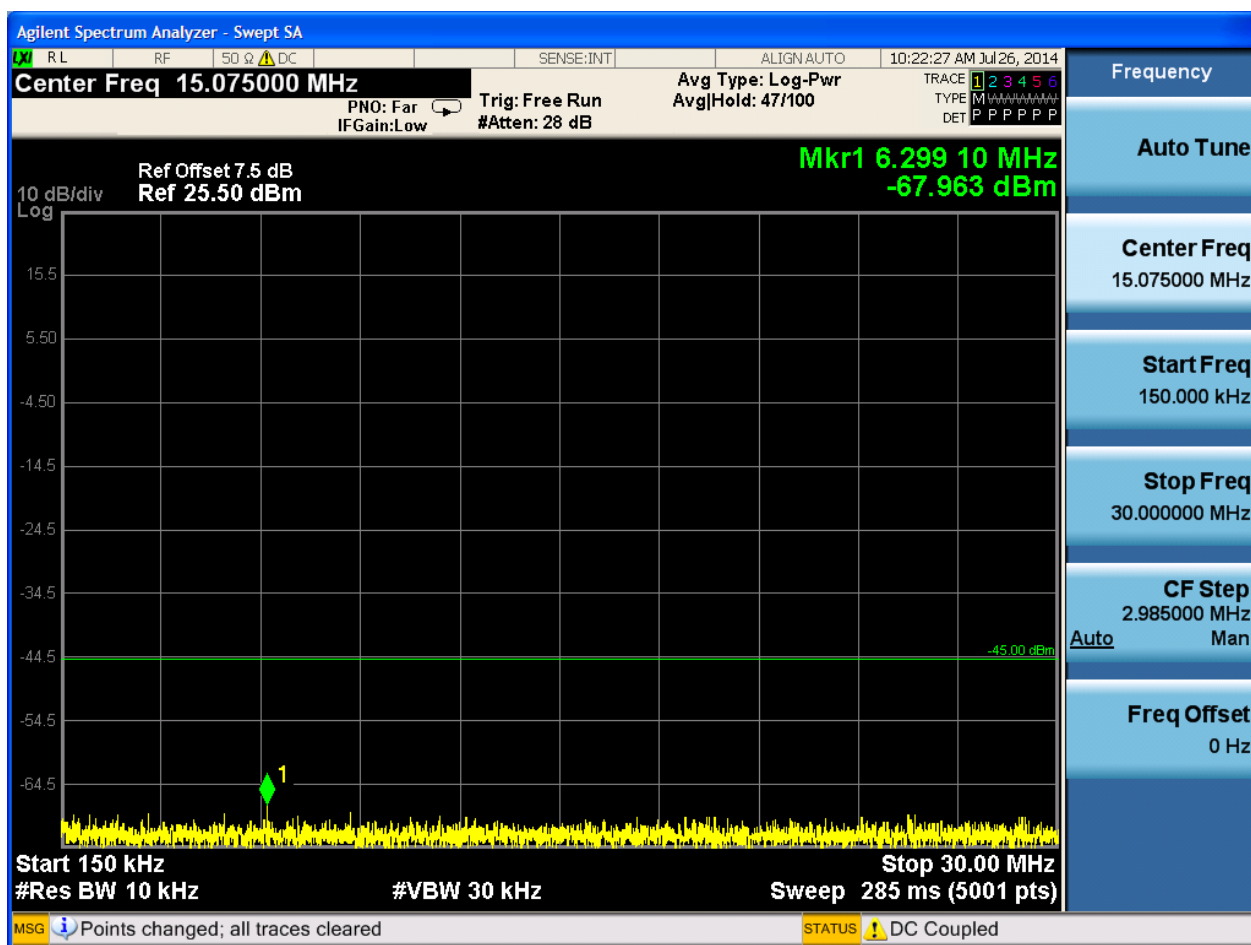


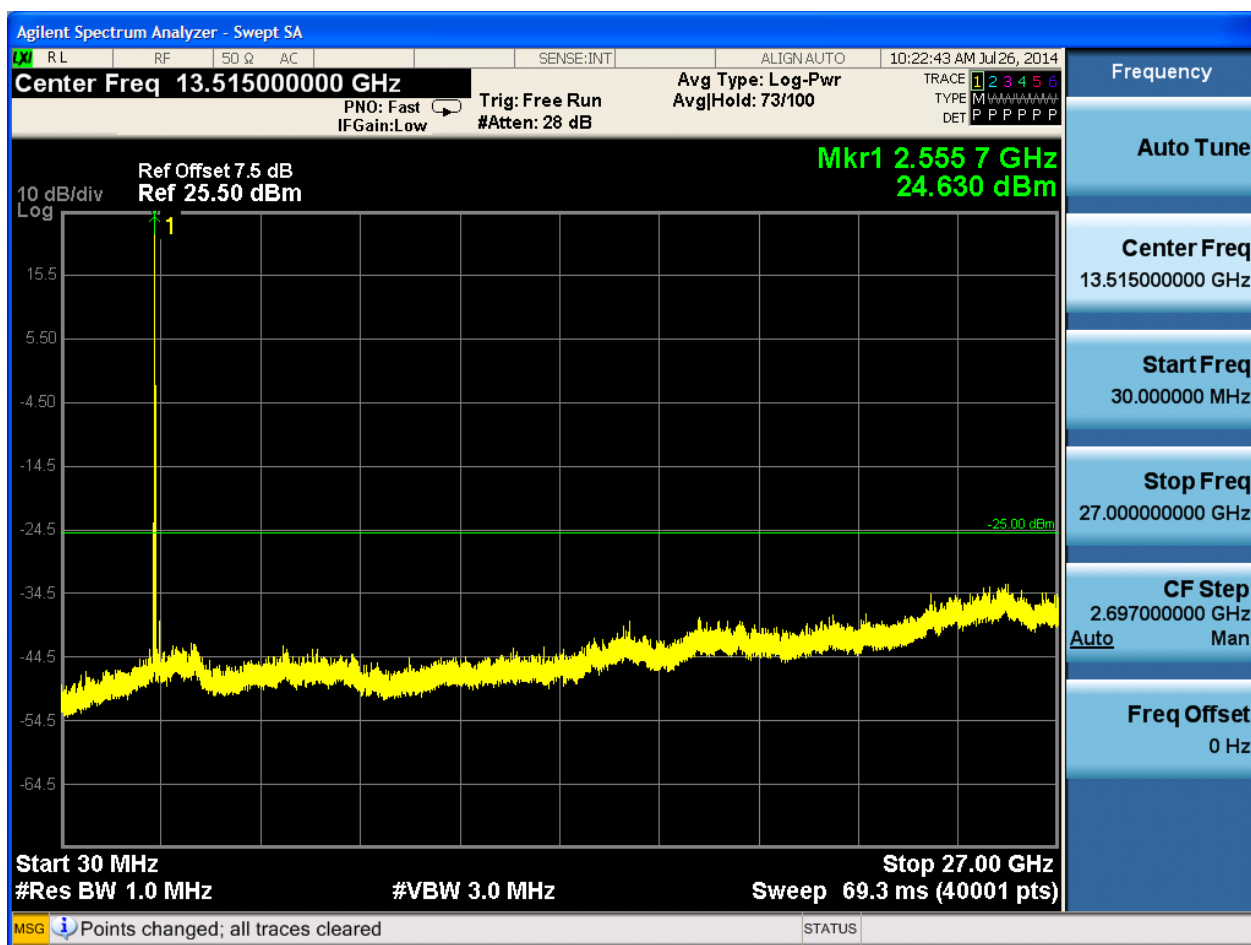


## 6.3.4.2.3.3 Test Channel = HCH

## 6.3.4.2.3.3.1 Test RB = RB1#0





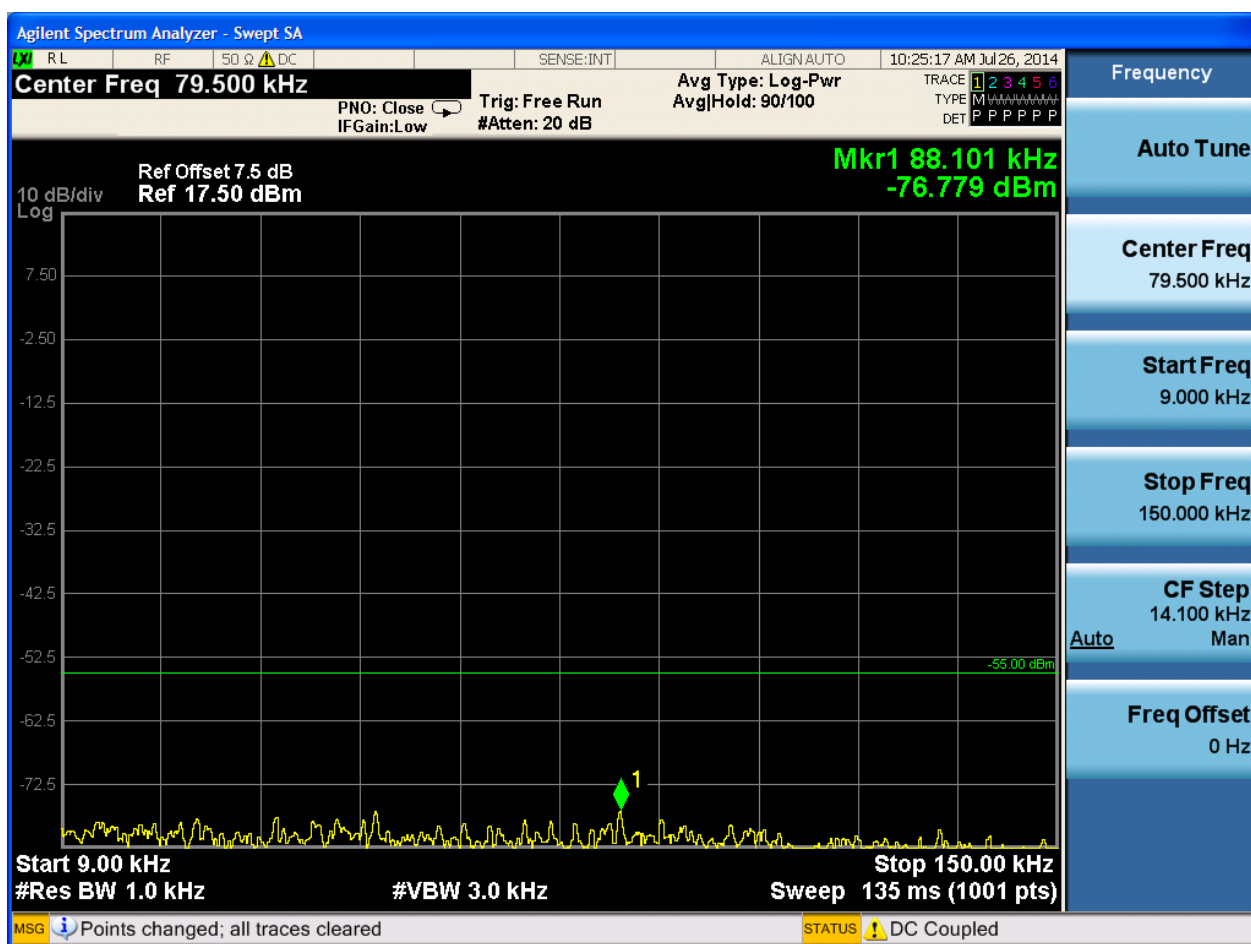


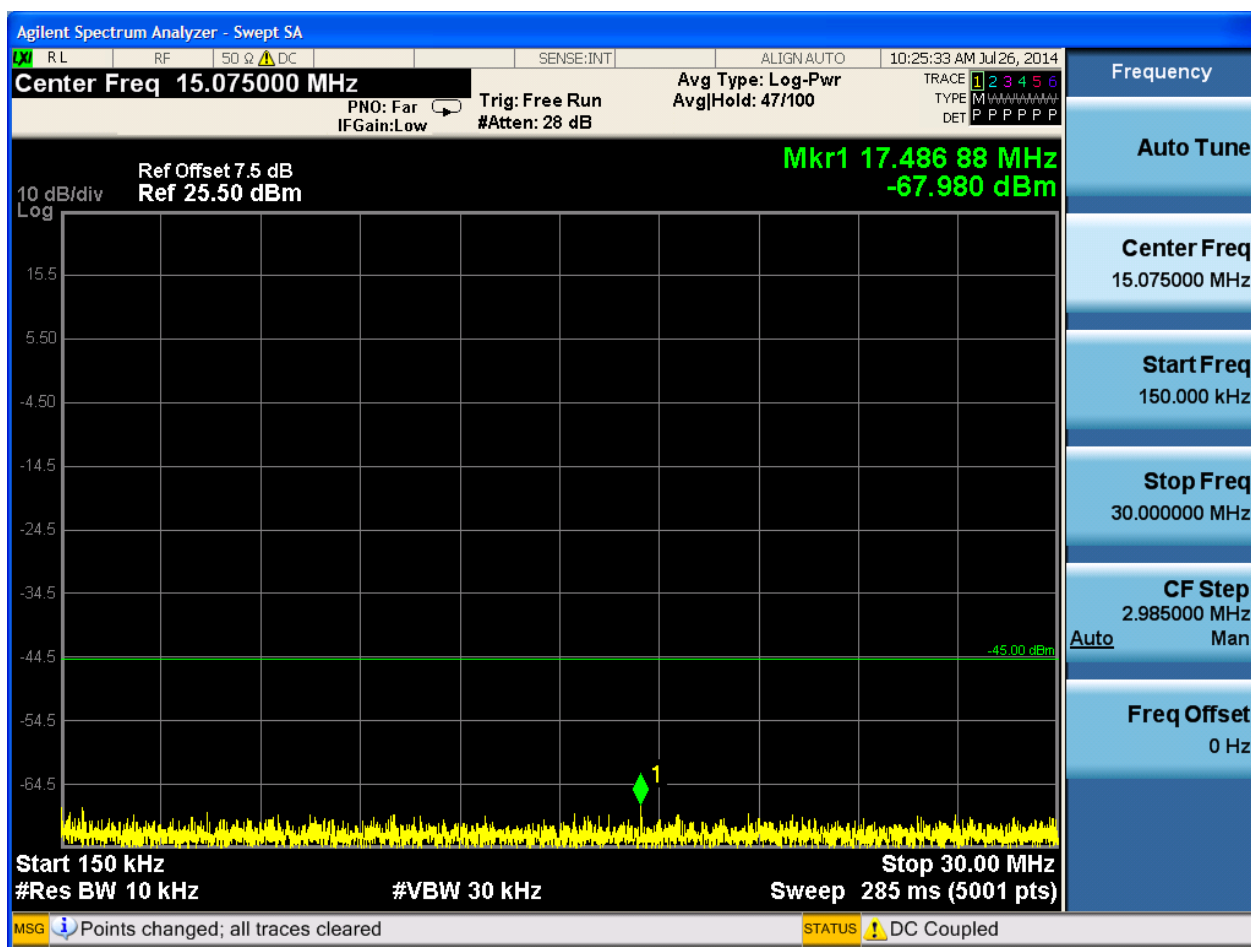


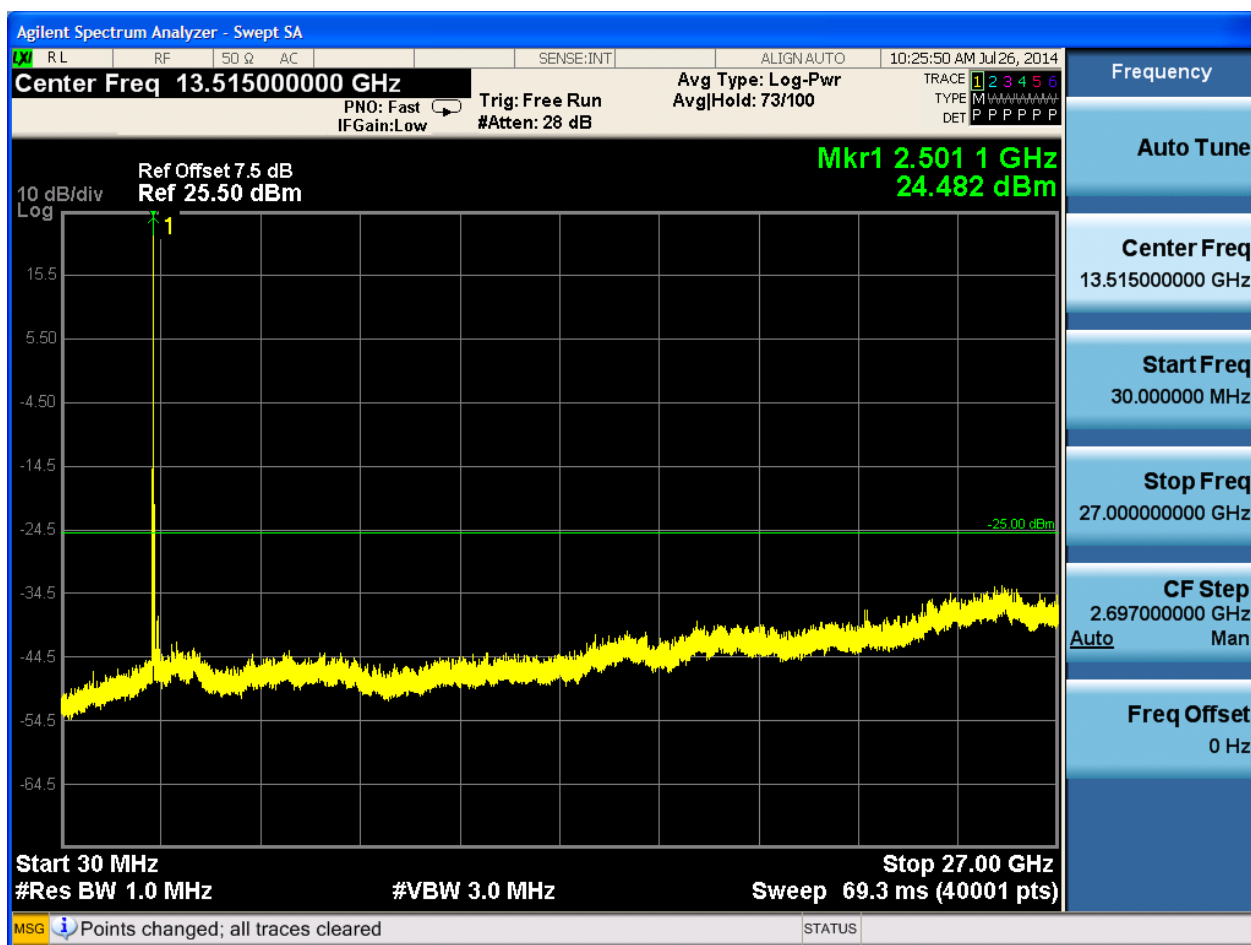
## 6.3.4.2.4 Test Bandwidth = 20

## 6.3.4.2.4.1 Test Channel = LCH

## 6.3.4.2.4.1.1 Test RB = RB1#0





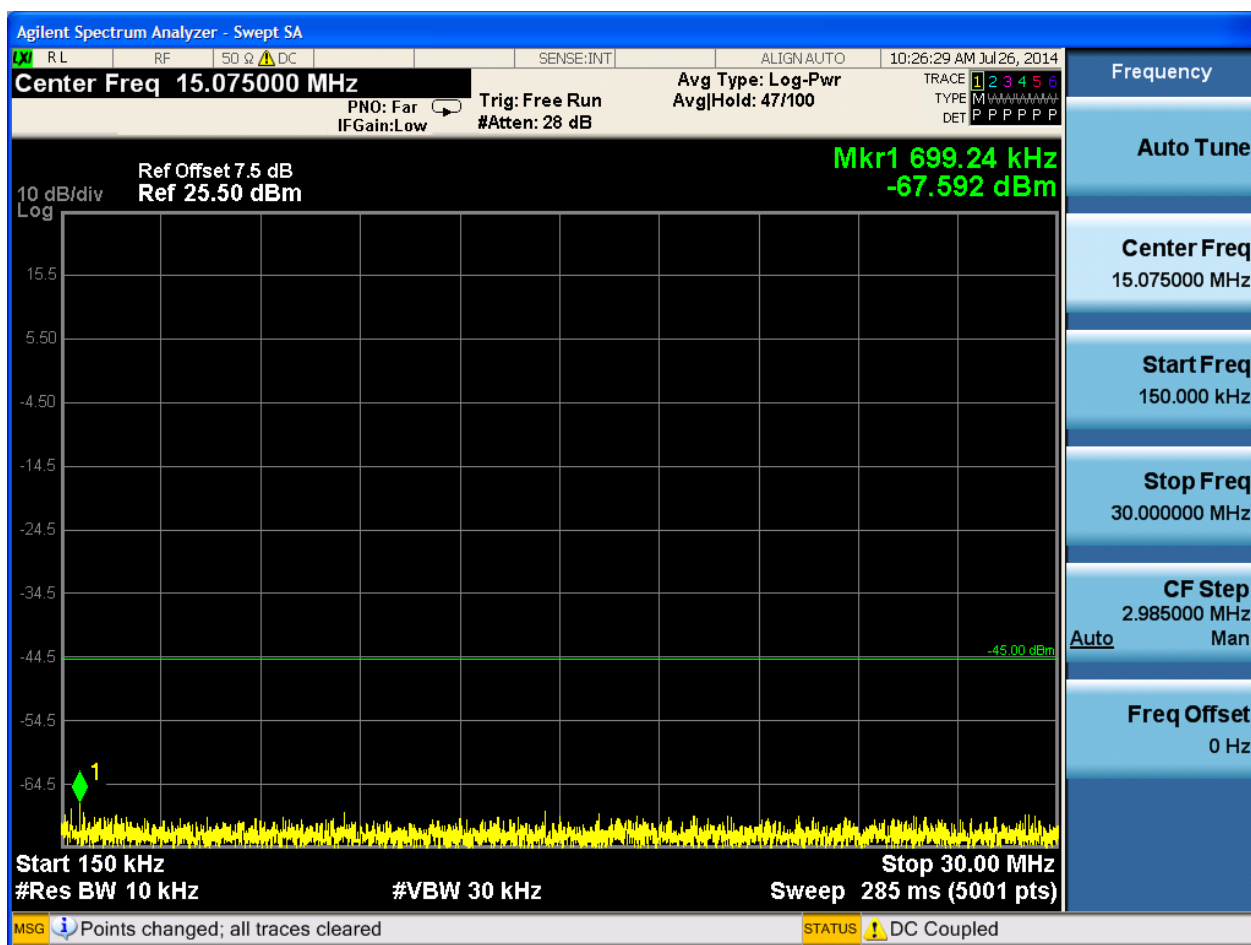


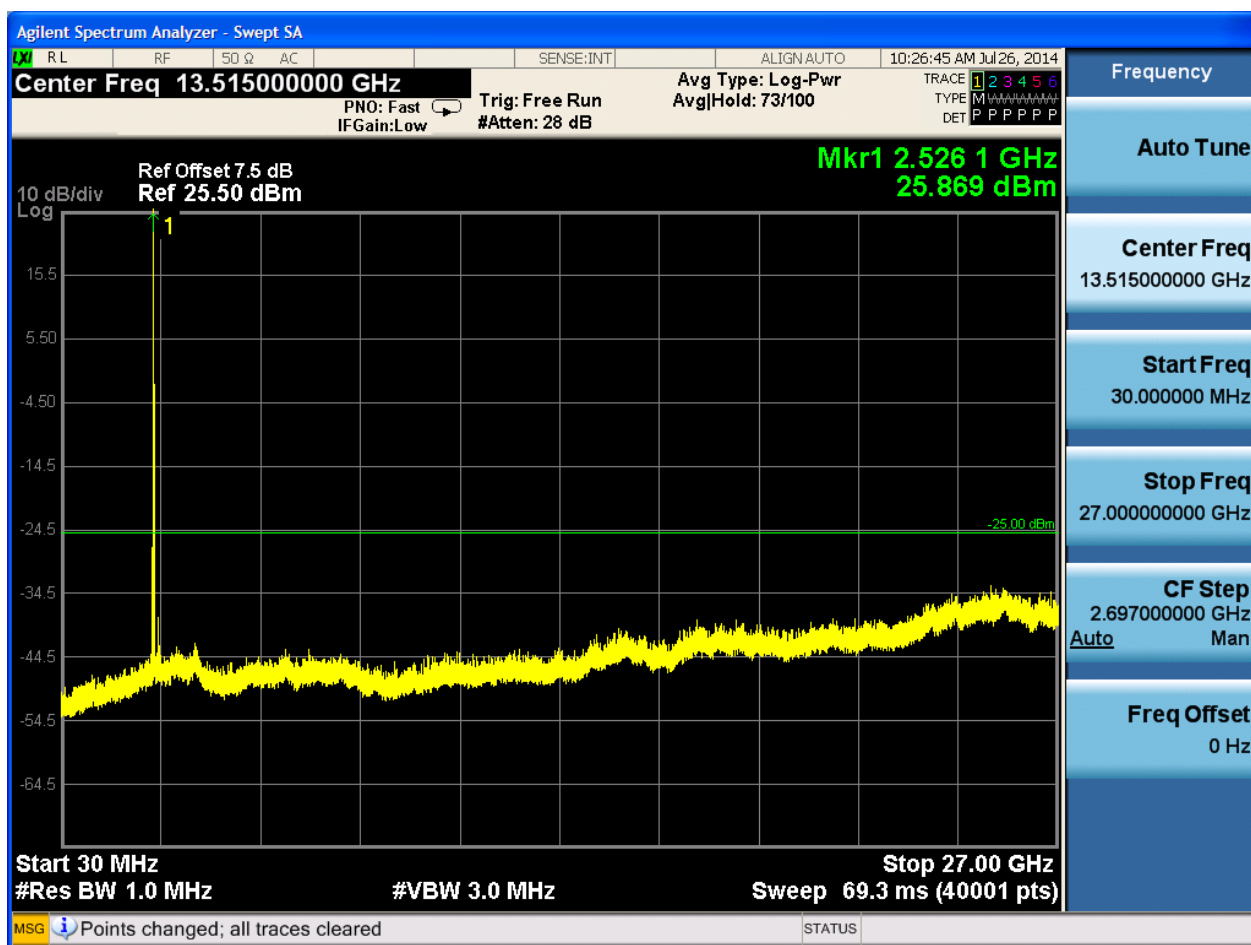


## 6.3.4.2.4.2 Test Channel = MCH

## 6.3.4.2.4.2.1 Test RB = RB1#0



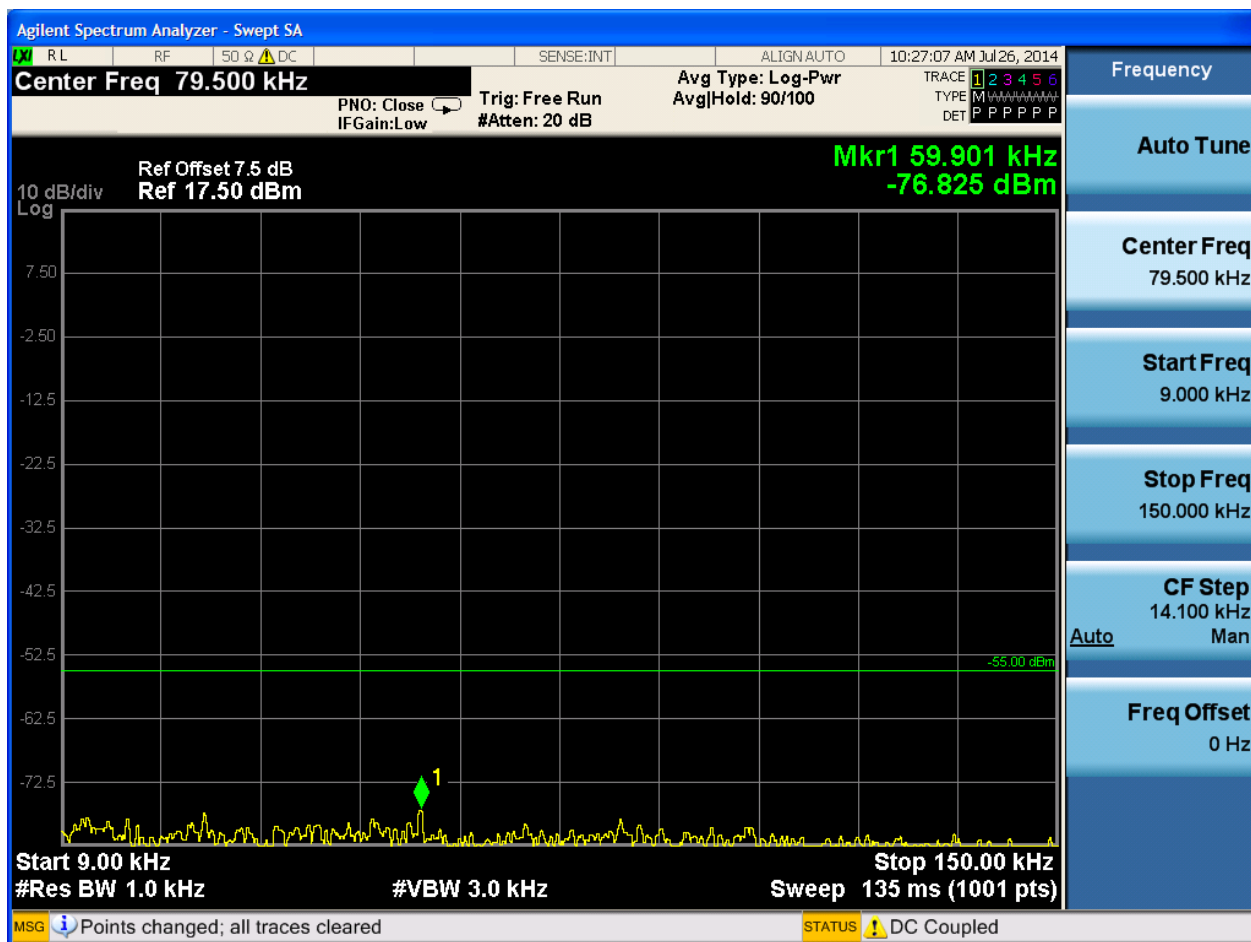


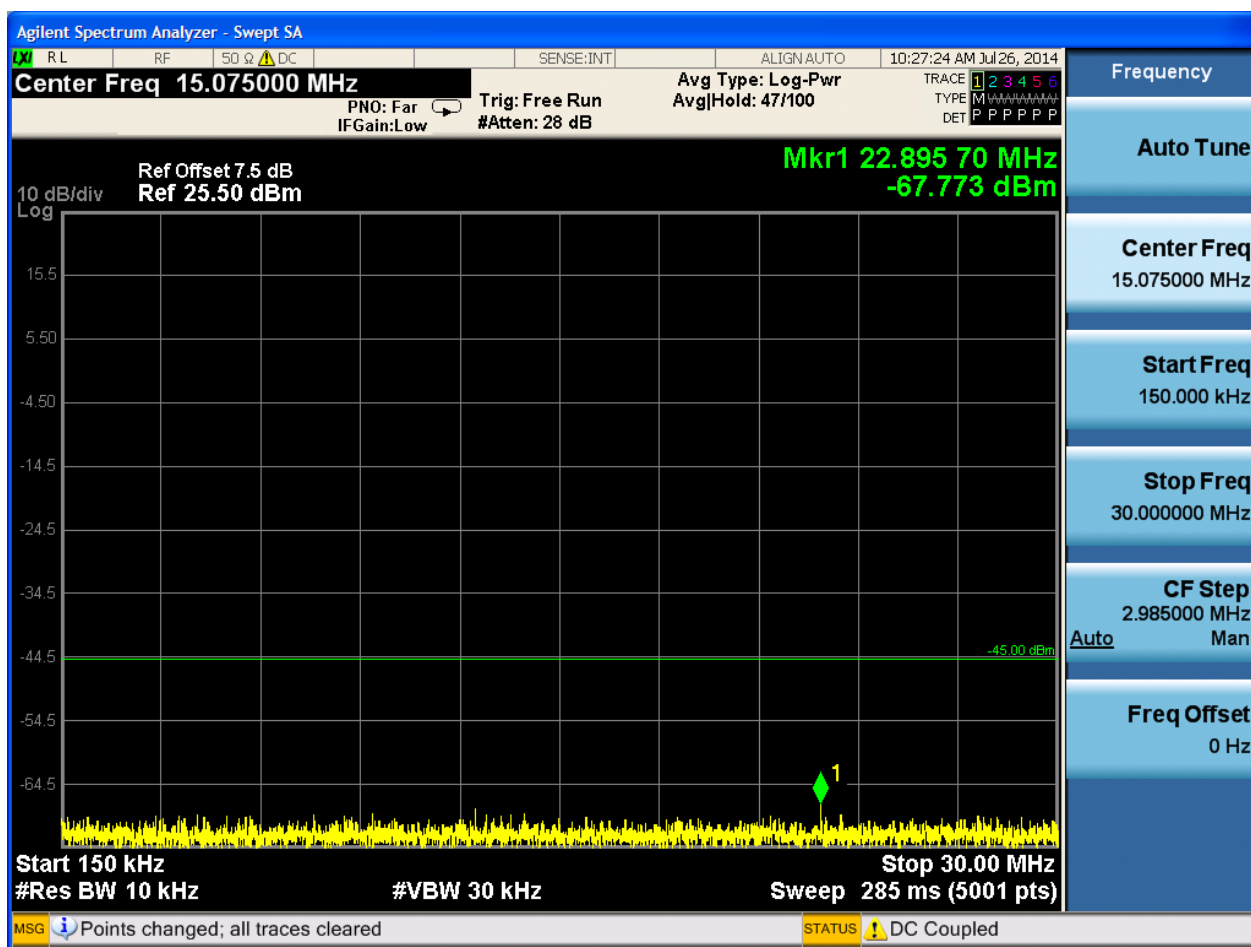


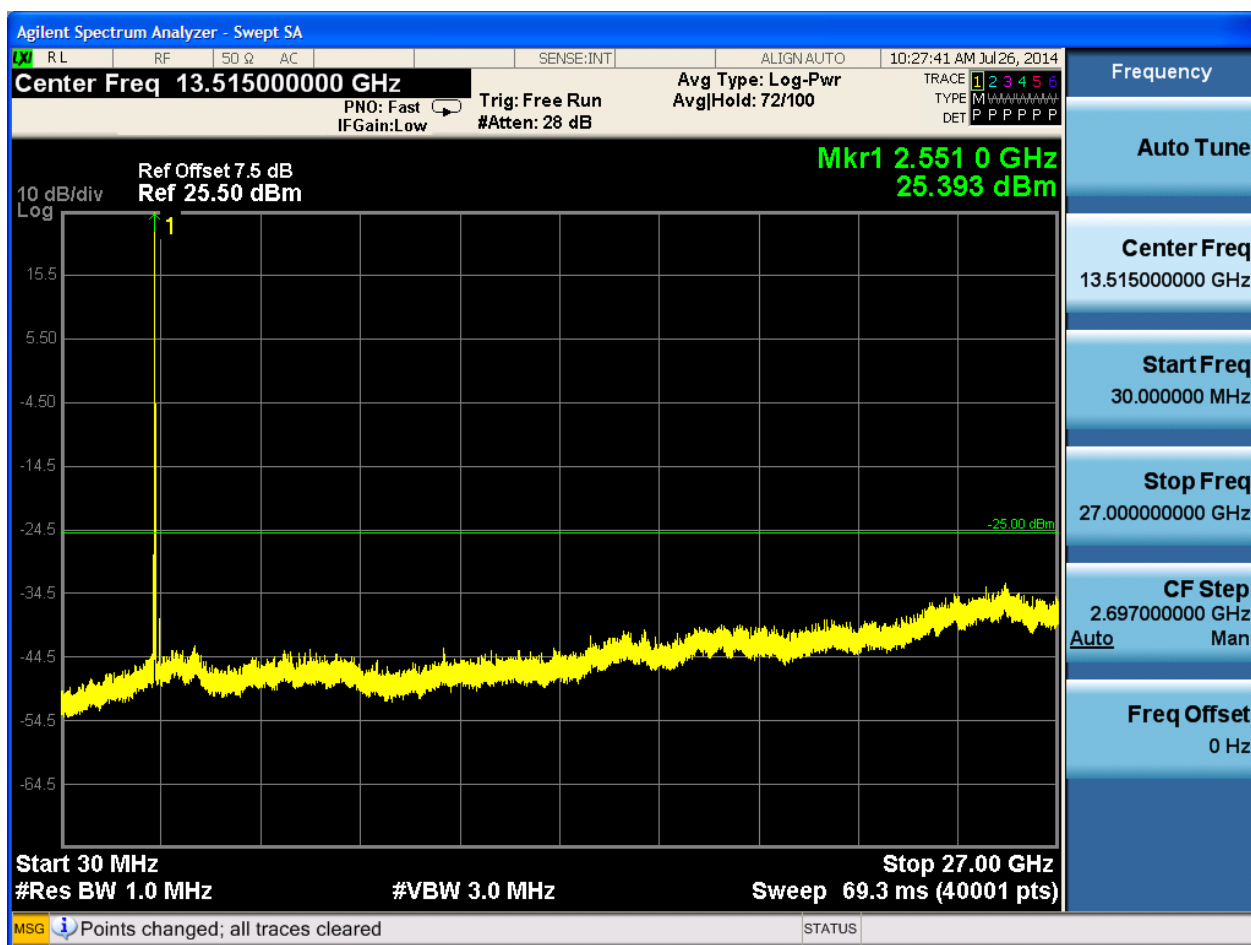


## 6.3.4.2.4.3 Test Channel = HCH

## 6.3.4.2.4.3.1 Test RB = RB1#0







## 7Appendix\_G: Field Strength of Spurious Radiation

Note:

9kHz~150kHz, VBW = 200Hz, VBW = 600 Hz, Detector: PK

150kHz~30MHz, VBW = 9kHz, VBW = 30k Hz, Detector: PK

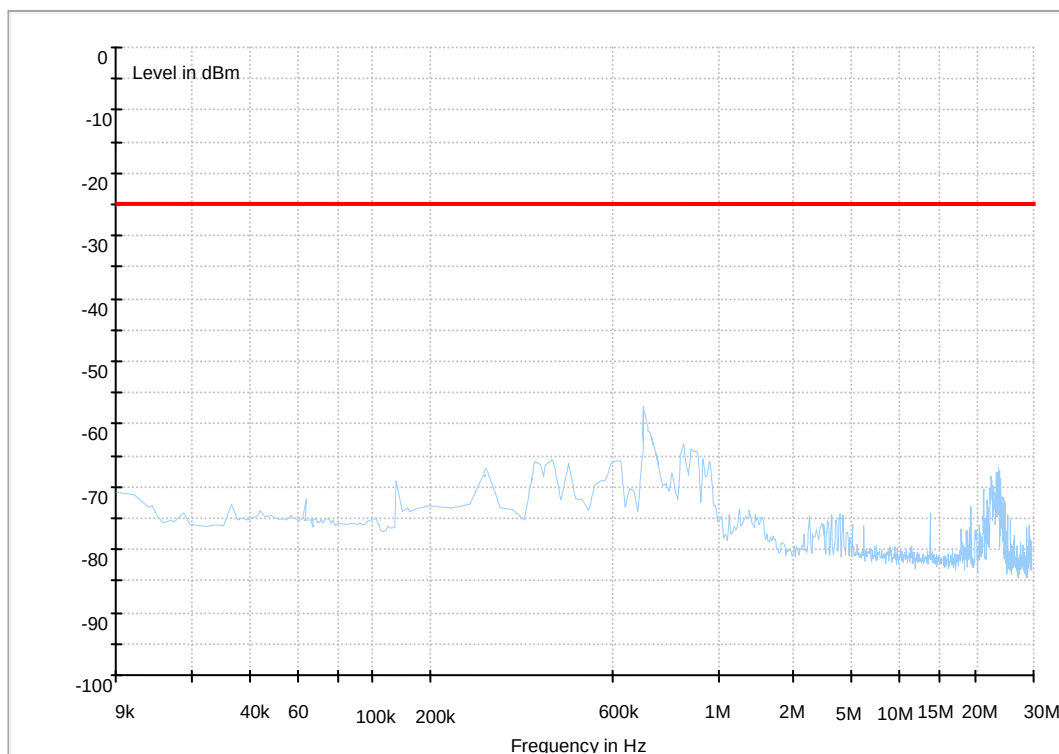
30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Detector: PK

Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

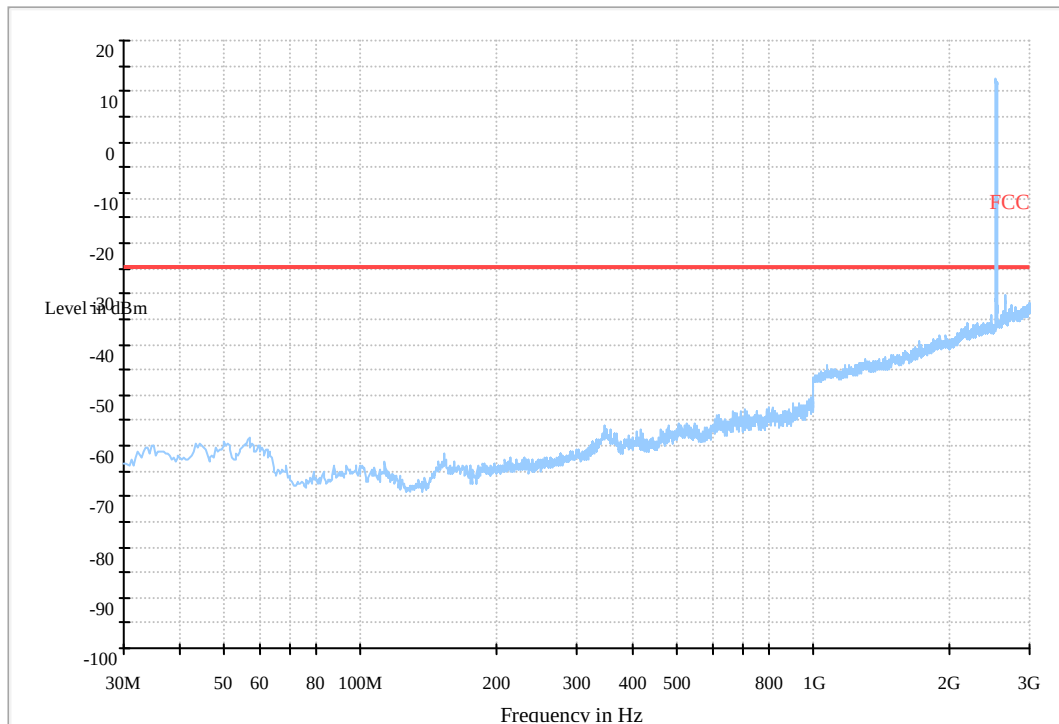
### Part I - Test Plots

#### 7.3.4 Test Band = BAND7

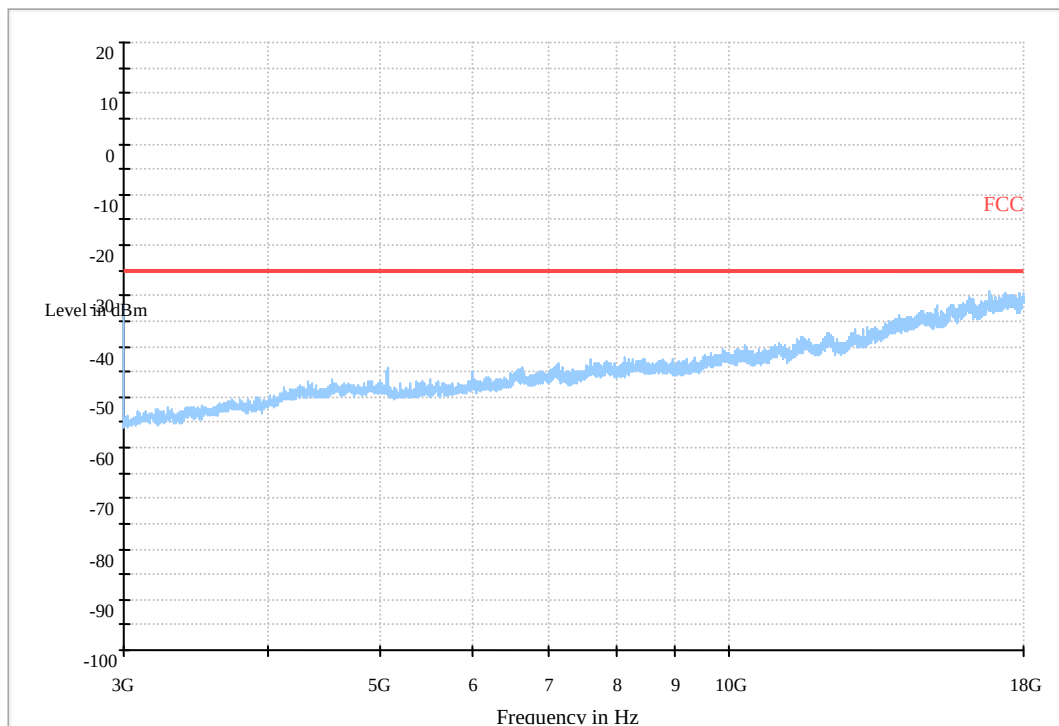
##### 7.3.4.1 Test Bandwidth = 5

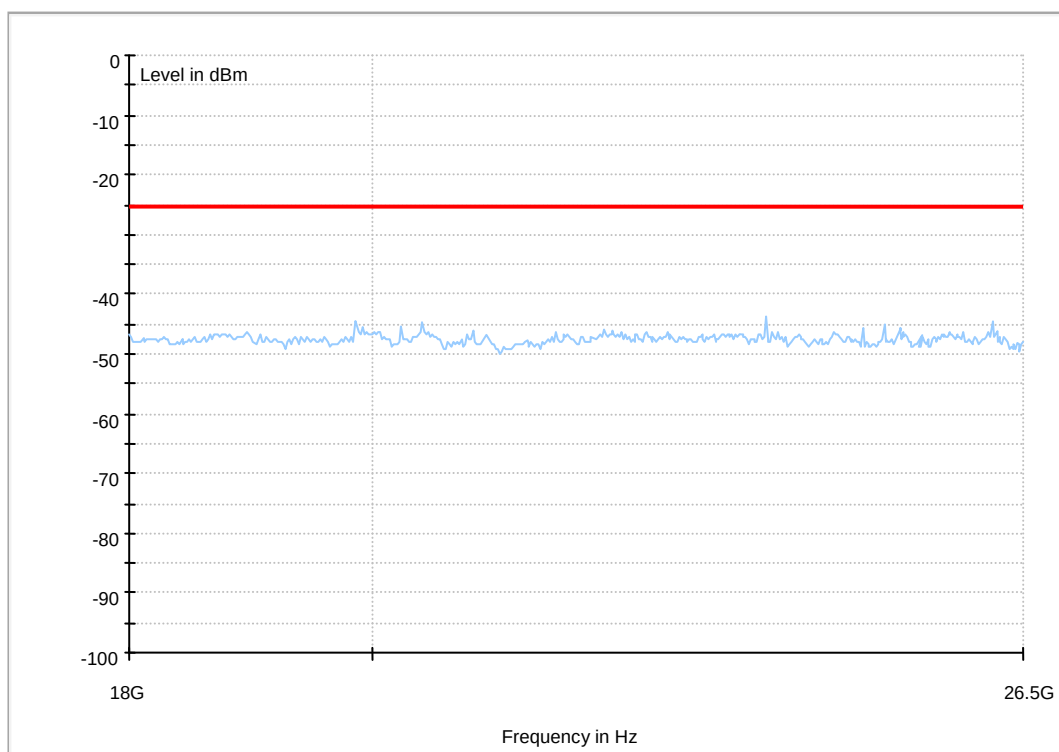


Copy of RSE-TX-DIRECTOR ABOVE 1.5G\_L

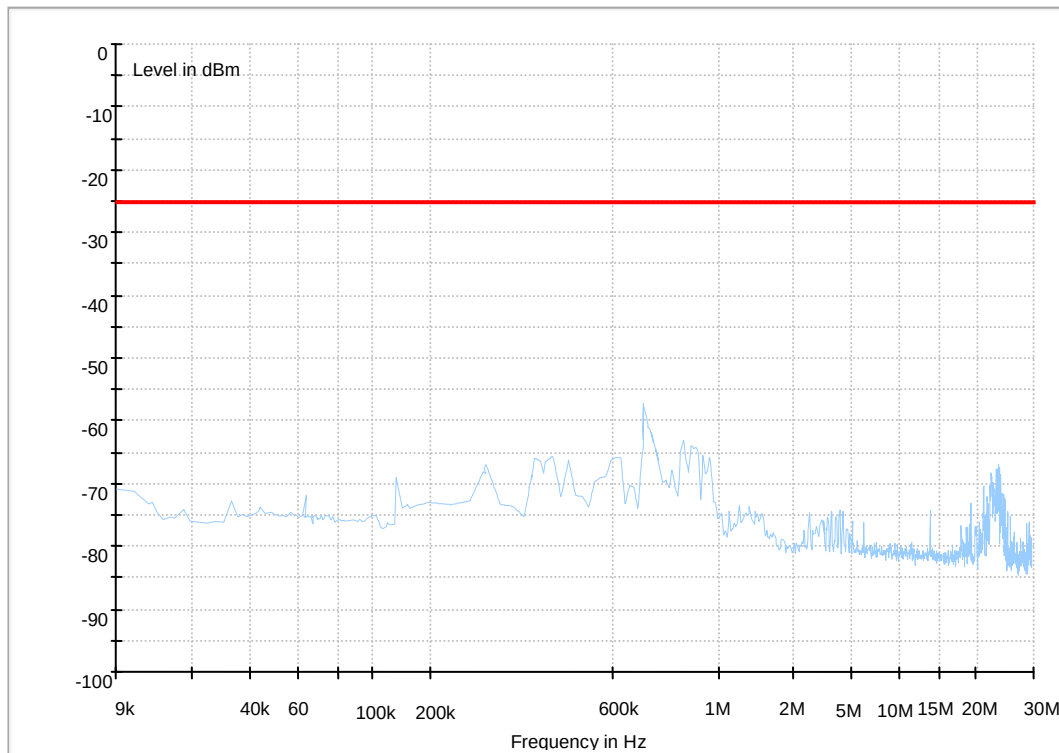


Copy of RSE-TX-DIRECTOR ABOVE 1.5G\_H

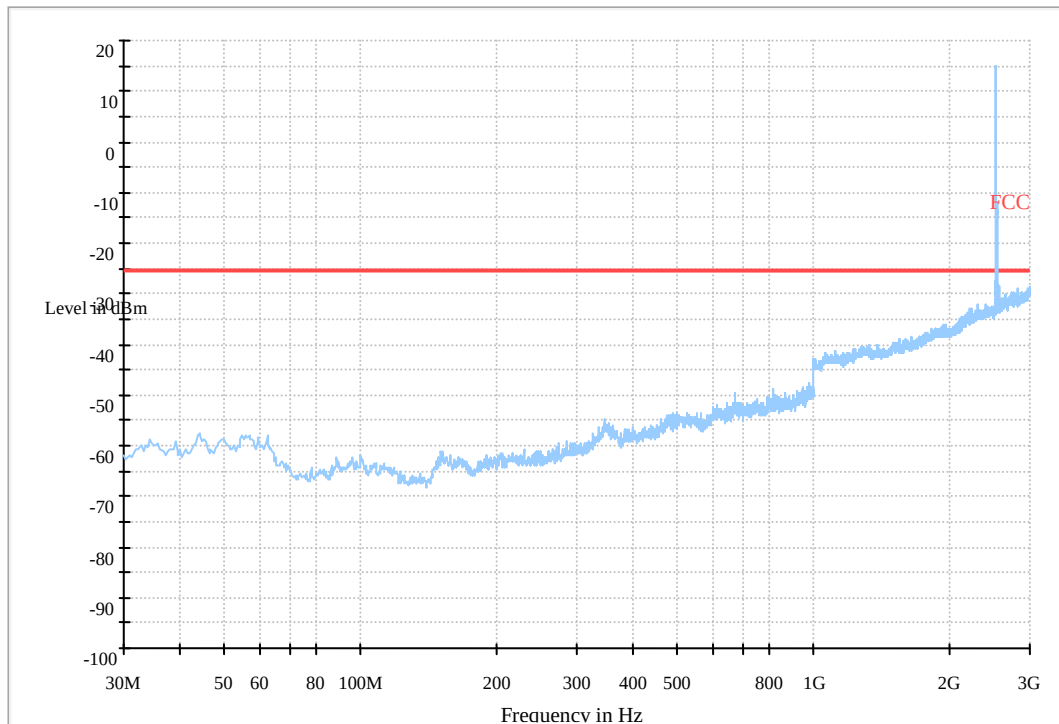




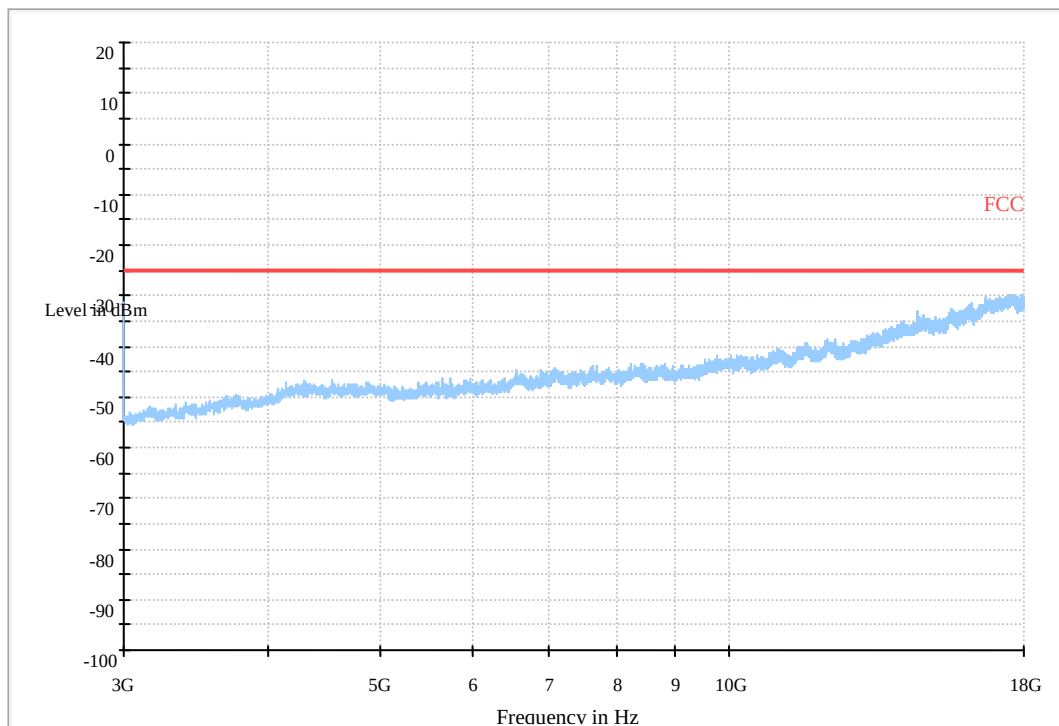
### 7.3.4.2 Test Bandwidth = 20

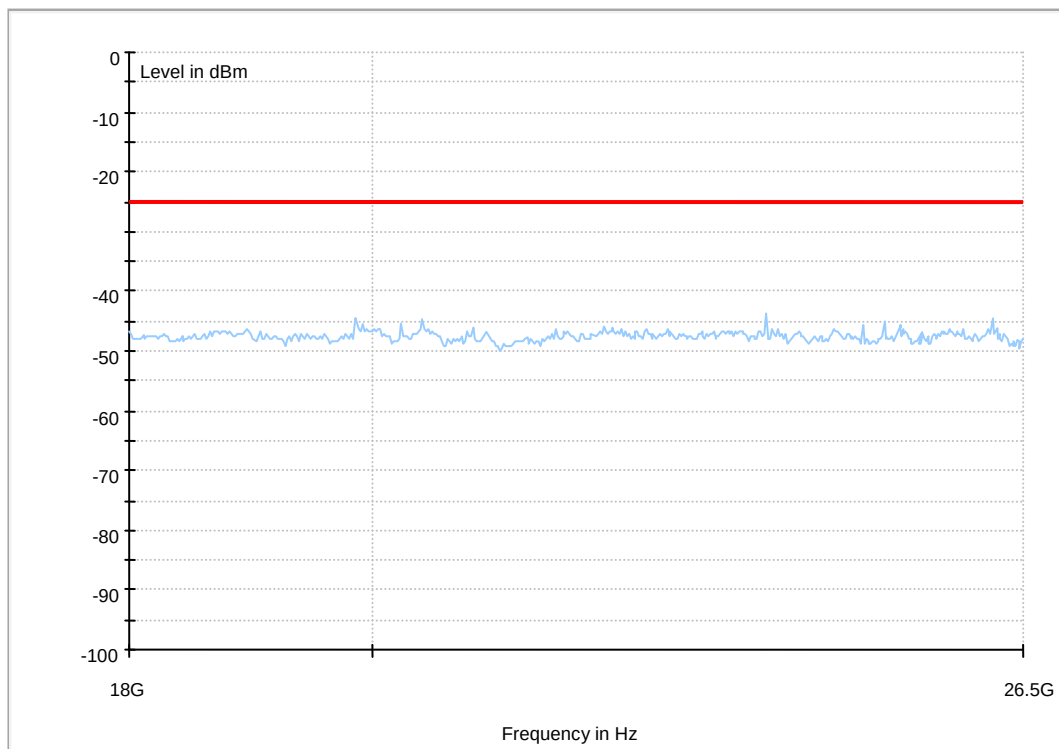


Copy of RSE-TX-DIRECTOR ABOVE 1.5G\_L



Copy of RSE-TX-DIRECTOR ABOVE 1.5G\_H





## 8Appendix\_H: Frequency Stability

### 8.1 For LTE

#### 8.1.1Frequency Error vs. Voltage:

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
| BAND7     | LTE/TM1   | 5                    | LCH          | TN         | VL         | 1.1              | 0.00044               | PASS    |
|           |           |                      |              |            | VN         | 2.66             | 0.00106               | PASS    |
|           |           |                      |              |            | VH         | 2.88             | 0.00115               | PASS    |
|           |           |                      | MCH          | TN         | VL         | 2.45             | 0.00097               | PASS    |
|           |           |                      |              |            | VN         | 0.31             | 0.00012               | PASS    |
|           |           |                      |              |            | VH         | 1.44             | 0.00057               | PASS    |
|           |           |                      | HCH          | TN         | VL         | -3.12            | -0.00122              | PASS    |
|           |           |                      |              |            | VN         | 1.69             | 0.00066               | PASS    |
|           |           |                      |              |            | VH         | 0.43             | 0.00017               | PASS    |
|           |           | 10                   | LCH          | TN         | VL         | 2.22             | 0.00089               | PASS    |
|           |           |                      |              |            | VN         | -0.63            | -0.00025              | PASS    |
|           |           |                      |              |            | VH         | -0.82            | -0.00033              | PASS    |
|           |           |                      | MCH          | TN         | VL         | 3.4              | 0.00134               | PASS    |
|           |           |                      |              |            | VN         | -0.69            | -0.00027              | PASS    |
|           |           |                      |              |            | VH         | -0.27            | -0.00011              | PASS    |
|           |           |                      | HCH          | TN         | VL         | 3.65             | 0.00142               | PASS    |
|           |           |                      |              |            | VN         | -1.93            | -0.00075              | PASS    |
|           |           |                      |              |            | VH         | 2.86             | 0.00112               | PASS    |
|           |           | 15                   | LCH          | TN         | VL         | 2.6              | 0.00104               | PASS    |
|           |           |                      |              |            | VN         | 2.03             | 0.00081               | PASS    |
|           |           |                      |              |            | VH         | -2.69            | -0.00107              | PASS    |
|           |           |                      | MCH          | TN         | VL         | 3.28             | 0.00129               | PASS    |
|           |           |                      |              |            | VN         | 2.73             | 0.00108               | PASS    |
|           |           |                      |              |            | VH         | -4.26            | -0.00168              | PASS    |
|           |           |                      | HCH          | TN         | VL         | -0.79            | -0.00031              | PASS    |
|           |           |                      |              |            | VN         | 1.66             | 0.00065               | PASS    |
|           |           |                      |              |            | VH         | 2.17             | 0.00085               | PASS    |
|           |           | 20                   | LCH          | TN         | VL         | 6.69             | 0.00267               | PASS    |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
|           |           |                      |              |            | VN         | 2.75             | 0.0011                | PASS    |
|           |           |                      |              |            | VH         | 6.84             | 0.00273               | PASS    |
|           |           |                      | MCH          | TN         | VL         | -2.07            | -0.00082              | PASS    |
|           |           |                      |              |            | VN         | -2.8             | -0.0011               | PASS    |
|           |           |                      |              |            | VH         | 0.27             | 0.00011               | PASS    |
|           |           |                      | HCH          | TN         | VL         | 6.87             | 0.00268               | PASS    |
|           |           |                      |              |            | VN         | 5.48             | 0.00214               | PASS    |
|           |           |                      |              |            | VH         | -3.49            | -0.00136              | PASS    |
|           | LTE/TM2   | 5                    | LCH          | TN         | VL         | -6.14            | -0.00245              | PASS    |
|           |           |                      |              |            | VN         | 0.2              | 0.00008               | PASS    |
|           |           |                      |              |            | VH         | 4.88             | 0.00195               | PASS    |
|           |           |                      | MCH          | TN         | VL         | -4.22            | -0.00166              | PASS    |
|           |           |                      |              |            | VN         | -0.44            | -0.00017              | PASS    |
|           |           |                      |              |            | VH         | 3.98             | 0.00157               | PASS    |
|           |           |                      | HCH          | TN         | VL         | -1.9             | -0.00074              | PASS    |
|           |           |                      |              |            | VN         | -6.62            | -0.00258              | PASS    |
|           |           |                      |              |            | VH         | -0.37            | -0.00014              | PASS    |
|           |           | 10                   | LCH          | TN         | VL         | -1.75            | -0.0007               | PASS    |
|           |           |                      |              |            | VN         | -1.5             | -0.0006               | PASS    |
|           |           |                      |              |            | VH         | -0.13            | -0.00005              | PASS    |
|           |           |                      | MCH          | TN         | VL         | 1.3              | 0.00051               | PASS    |
|           |           |                      |              |            | VN         | 1.07             | 0.00042               | PASS    |
|           |           |                      |              |            | VH         | 1.3              | 0.00051               | PASS    |
|           |           |                      | HCH          | TN         | VL         | -0.49            | -0.00019              | PASS    |
|           |           |                      |              |            | VN         | -0.86            | -0.00034              | PASS    |
|           |           |                      |              |            | VH         | -1.63            | -0.00064              | PASS    |
|           |           | 15                   | LCH          | TN         | VL         | 0.29             | 0.00012               | PASS    |
|           |           |                      |              |            | VN         | 2.02             | 0.00081               | PASS    |
|           |           |                      |              |            | VH         | -3.88            | -0.00155              | PASS    |
|           |           |                      | MCH          | TN         | VL         | -3.55            | -0.0014               | PASS    |
|           |           |                      |              |            | VN         | -2.09            | -0.00082              | PASS    |
|           |           |                      |              |            | VH         | -0.1             | -0.00004              | PASS    |
|           |           |                      | HCH          | TN         | VL         | -1.2             | -0.00047              | PASS    |
|           |           |                      |              |            | VN         | -1.73            | -0.00068              | PASS    |
|           |           |                      |              |            | VH         | 2.36             | 0.00092               | PASS    |
|           |           | 20                   | LCH          | TN         | VL         | -1.96            | -0.00078              | PASS    |
|           |           |                      |              |            | VN         | -8.58            | -0.00342              | PASS    |
|           |           |                      |              |            | VH         | 7.02             | 0.0028                | PASS    |
|           |           |                      | MCH          | TN         | VL         | -2               | -0.00079              | PASS    |
|           |           |                      |              |            | VH         | -2               | -0.00079              | PASS    |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
|           |           |                      |              |            | VN         | -6.42            | -0.00253              | PASS    |
|           |           |                      |              |            | VH         | -5.16            | -0.00204              | PASS    |
|           |           |                      | HCH          | TN         | VL         | -8.77            | -0.00343              | PASS    |
|           |           |                      |              |            | VN         | -1.99            | -0.00078              | PASS    |
|           |           |                      |              |            | VH         | 6.08             | 0.00237               | PASS    |

### 8.1.2 Frequency Error vs. Temperature:

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
| BAND7     | LTE/TM1   | 5                    | LCH          | VN         | -30        | -15.68           | -0.00627              | PASS    |
|           |           |                      |              |            | -20        | 2.83             | 0.00113               | PASS    |
|           |           |                      |              |            | -10        | 11.49            | 0.00459               | PASS    |
|           |           |                      |              |            | 0          | -0.2             | -0.00008              | PASS    |
|           |           |                      |              |            | 10         | 0.77             | 0.00031               | PASS    |
|           |           |                      |              |            | 20         | 2.55             | 0.00102               | PASS    |
|           |           |                      |              |            | 30         | -4.22            | -0.00169              | PASS    |
|           |           |                      |              |            | 40         | 9.01             | 0.0036                | PASS    |
|           |           |                      |              |            | 50         | -8.57            | -0.00342              | PASS    |
|           |           |                      | MCH          | VN         | -30        | -13.79           | -0.00544              | PASS    |
|           |           |                      |              |            | -20        | 3.96             | 0.00156               | PASS    |
|           |           |                      |              |            | -10        | -3.13            | -0.00123              | PASS    |
|           |           |                      |              |            | 0          | -12.23           | -0.00482              | PASS    |
|           |           |                      |              |            | 10         | -12.13           | -0.00479              | PASS    |
|           |           |                      |              |            | 20         | -12.9            | -0.00509              | PASS    |
|           |           |                      |              |            | 30         | 5.54             | 0.00219               | PASS    |
|           |           |                      |              |            | 40         | -6.49            | -0.00256              | PASS    |
|           |           |                      |              |            | 50         | -16.72           | -0.0066               | PASS    |
|           |           |                      | HCH          | VN         | -30        | -15.55           | -0.00606              | PASS    |
|           |           |                      |              |            | -20        | -1.52            | -0.00059              | PASS    |
|           |           |                      |              |            | -10        | 9.67             | 0.00377               | PASS    |
|           |           |                      |              |            | 0          | 7.8              | 0.00304               | PASS    |
|           |           |                      |              |            | 10         | -2.37            | -0.00092              | PASS    |
|           |           |                      |              |            | 20         | -8.6             | -0.00335              | PASS    |
|           |           |                      |              |            | 30         | -13.55           | -0.00528              | PASS    |
|           |           |                      |              |            | 40         | -5.31            | -0.00207              | PASS    |
|           |           |                      |              |            | 50         | -3.45            | -0.00134              | PASS    |
|           |           | 10                   | LCH          | VN         | -30        | -6.15            | -0.00246              | PASS    |
|           |           |                      |              |            | -20        | 4.15             | 0.00166               | PASS    |
|           |           |                      |              |            | -10        | 10.17            | 0.00406               | PASS    |
|           |           |                      |              |            | 0          | -3.28            | -0.00131              | PASS    |
|           |           |                      |              |            | 10         | 5.95             | 0.00238               | PASS    |
|           |           |                      |              |            | 20         | 11.87            | 0.00474               | PASS    |
|           |           |                      |              |            | 30         | 0.64             | 0.00026               | PASS    |
|           |           |                      |              |            | 40         | 6.44             | 0.00257               | PASS    |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
|           |           |                      | MCH          | VN         | 50         | 7.71             | 0.00308               | PASS    |
|           |           |                      |              |            | -30        | -9.68            | -0.00382              | PASS    |
|           |           |                      |              |            | -20        | -0.1             | -0.00004              | PASS    |
|           |           |                      |              |            | -10        | -20.71           | -0.00817              | PASS    |
|           |           |                      |              |            | 0          | -4.45            | -0.00176              | PASS    |
|           |           |                      |              |            | 10         | -4.84            | -0.00191              | PASS    |
|           |           |                      |              |            | 20         | -0.69            | -0.00027              | PASS    |
|           |           |                      |              |            | 30         | 11.63            | 0.00459               | PASS    |
|           |           |                      |              |            | 40         | 5.74             | 0.00226               | PASS    |
|           |           |                      |              |            | 50         | 7.64             | 0.00301               | PASS    |
|           |           |                      | HCH          | VN         | -30        | -0.66            | -0.00026              | PASS    |
|           |           |                      |              |            | -20        | -12.13           | -0.00473              | PASS    |
|           |           |                      |              |            | -10        | -8.51            | -0.00332              | PASS    |
|           |           |                      |              |            | 0          | 5.94             | 0.00232               | PASS    |
|           |           |                      |              |            | 10         | -9.51            | -0.00371              | PASS    |
|           |           |                      |              |            | 20         | -4.79            | -0.00187              | PASS    |
|           |           |                      |              |            | 30         | -4.91            | -0.00191              | PASS    |
|           |           |                      |              |            | 40         | -9.08            | -0.00354              | PASS    |
|           |           |                      |              |            | 50         | -7.7             | -0.003                | PASS    |
|           |           | 15                   | LCH          | VN         | -30        | -12.53           | -0.005                | PASS    |
|           |           |                      |              |            | -20        | -16.91           | -0.00674              | PASS    |
|           |           |                      |              |            | -10        | -13.2            | -0.00526              | PASS    |
|           |           |                      |              |            | 0          | -8.17            | -0.00326              | PASS    |
|           |           |                      |              |            | 10         | -12.47           | -0.00497              | PASS    |
|           |           |                      |              |            | 20         | -15.18           | -0.00605              | PASS    |
|           |           |                      |              |            | 30         | -2.35            | -0.00094              | PASS    |
|           |           |                      |              |            | 40         | -16.47           | -0.00657              | PASS    |
|           |           |                      |              |            | 50         | -2.02            | -0.00081              | PASS    |
|           |           |                      | MCH          | VN         | -30        | -3.45            | -0.00136              | PASS    |
|           |           |                      |              |            | -20        | 6.31             | 0.00249               | PASS    |
|           |           |                      |              |            | -10        | 0.87             | 0.00034               | PASS    |
|           |           |                      |              |            | 0          | -9.16            | -0.00361              | PASS    |
|           |           |                      |              |            | 10         | 6.49             | 0.00256               | PASS    |
|           |           |                      |              |            | 20         | -7.95            | -0.00314              | PASS    |
|           |           |                      |              |            | 30         | -1.3             | -0.00051              | PASS    |
|           |           |                      |              |            | 40         | -1.9             | -0.00075              | PASS    |
|           |           |                      |              |            | 50         | -2.09            | -0.00082              | PASS    |
|           |           |                      | HCH          | VN         | -30        | -18.37           | -0.00717              | PASS    |
|           |           |                      |              |            | -20        | -11.14           | -0.00435              | PASS    |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
|           |           |                      |              |            | -10        | -5.16            | -0.00201              | PASS    |
|           |           |                      |              |            | 0          | 2.9              | 0.00113               | PASS    |
|           |           |                      |              |            | 10         | -7.97            | -0.00311              | PASS    |
|           |           |                      |              |            | 20         | -2.35            | -0.00092              | PASS    |
|           |           |                      |              |            | 30         | -2.39            | -0.00093              | PASS    |
|           |           |                      |              |            | 40         | 3.91             | 0.00153               | PASS    |
|           |           |                      |              |            | 50         | 12.47            | 0.00487               | PASS    |
|           |           | 20                   | LCH          | VN         | -30        | -17.37           | -0.00692              | PASS    |
|           |           |                      |              |            | -20        | -9.44            | -0.00376              | PASS    |
|           |           |                      |              |            | -10        | -0.93            | -0.00037              | PASS    |
|           |           |                      |              |            | 0          | -5.95            | -0.00237              | PASS    |
|           |           |                      |              |            | 10         | 9.91             | 0.00395               | PASS    |
|           |           |                      |              |            | 20         | -3.93            | -0.00157              | PASS    |
|           |           |                      |              |            | 30         | 5.25             | 0.00209               | PASS    |
|           |           |                      |              |            | 40         | -8.51            | -0.00339              | PASS    |
|           |           |                      |              |            | 50         | 6.51             | 0.00259               | PASS    |
|           |           |                      | MCH          | VN         | -30        | 0.74             | 0.00029               | PASS    |
|           |           |                      |              |            | -20        | 2.86             | 0.00113               | PASS    |
|           |           |                      |              |            | -10        | -9               | -0.00355              | PASS    |
|           |           |                      |              |            | 0          | -7.31            | -0.00288              | PASS    |
|           |           |                      |              |            | 10         | 6.28             | 0.00248               | PASS    |
|           |           |                      |              |            | 20         | -5.65            | -0.00223              | PASS    |
|           |           |                      |              |            | 30         | -2.09            | -0.00082              | PASS    |
|           |           |                      |              |            | 40         | 6.82             | 0.00269               | PASS    |
|           |           |                      |              |            | 50         | -10.06           | -0.00397              | PASS    |
|           |           |                      | HCH          | VN         | -30        | -3.76            | -0.00147              | PASS    |
|           |           |                      |              |            | -20        | -13.69           | -0.00535              | PASS    |
|           |           |                      |              |            | -10        | -17.17           | -0.00671              | PASS    |
|           |           |                      |              |            | 0          | -5.69            | -0.00222              | PASS    |
|           |           |                      |              |            | 10         | -16.68           | -0.00652              | PASS    |
|           |           |                      |              |            | 20         | -3.32            | -0.0013               | PASS    |
|           |           |                      |              |            | 30         | -4.69            | -0.00183              | PASS    |
|           |           |                      |              |            | 40         | -10.14           | -0.00396              | PASS    |
|           |           |                      |              |            | 50         | -12.25           | -0.00479              | PASS    |
|           | LTE/TM2   | 5                    | LCH          | VN         | -30        | -12.59           | -0.00503              | PASS    |
|           |           |                      |              |            | -20        | -1.52            | -0.00061              | PASS    |
|           |           |                      |              |            | -10        | -10.91           | -0.00436              | PASS    |
|           |           |                      |              |            | 0          | -11.66           | -0.00466              | PASS    |
|           |           |                      |              |            | 10         | -14.65           | -0.00585              | PASS    |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
|           |           |                      |              |            | 20         | -2.88            | -0.00115              | PASS    |
|           |           |                      |              |            | 30         | -8.24            | -0.00329              | PASS    |
|           |           |                      |              |            | 40         | -9.28            | -0.00371              | PASS    |
|           |           |                      |              |            | 50         | 5.64             | 0.00225               | PASS    |
|           |           |                      | MCH          | VN         | -30        | -10.49           | -0.00414              | PASS    |
|           |           |                      |              |            | -20        | -1.85            | -0.00073              | PASS    |
|           |           |                      |              |            | -10        | -18.88           | -0.00745              | PASS    |
|           |           |                      |              |            | 0          | -10.24           | -0.00404              | PASS    |
|           |           |                      |              |            | 10         | -1.92            | -0.00076              | PASS    |
|           |           |                      |              |            | 20         | 4.73             | 0.00187               | PASS    |
|           |           |                      |              |            | 30         | -4.66            | -0.00184              | PASS    |
|           |           |                      |              |            | 40         | -10.81           | -0.00426              | PASS    |
|           |           |                      |              |            | 50         | -20.6            | -0.00813              | PASS    |
|           |           |                      | HCH          | VN         | -30        | -18.3            | -0.00713              | PASS    |
|           |           |                      |              |            | -20        | 3.25             | 0.00127               | PASS    |
|           |           |                      |              |            | -10        | -8.65            | -0.00337              | PASS    |
|           |           |                      |              |            | 0          | -10.53           | -0.0041               | PASS    |
|           |           |                      |              |            | 10         | -11.23           | -0.00437              | PASS    |
|           |           |                      |              |            | 20         | 2.19             | 0.00085               | PASS    |
|           |           |                      |              |            | 30         | -0.53            | -0.00021              | PASS    |
|           |           |                      |              |            | 40         | -1.27            | -0.00049              | PASS    |
|           |           |                      |              |            | 50         | -0.82            | -0.00032              | PASS    |
|           |           | 10                   | LCH          | VN         | -30        | -12.66           | -0.00505              | PASS    |
|           |           |                      |              |            | -20        | -3.65            | -0.00146              | PASS    |
|           |           |                      |              |            | -10        | -13.63           | -0.00544              | PASS    |
|           |           |                      |              |            | 0          | -0.49            | -0.0002               | PASS    |
|           |           |                      |              |            | 10         | -6.32            | -0.00252              | PASS    |
|           |           |                      |              |            | 20         | -4.81            | -0.00192              | PASS    |
|           |           |                      |              |            | 30         | -2.53            | -0.00101              | PASS    |
|           |           |                      |              |            | 40         | -14.09           | -0.00562              | PASS    |
|           |           |                      |              |            | 50         | -13.98           | -0.00558              | PASS    |
|           |           |                      | MCH          | VN         | -30        | -8.97            | -0.00354              | PASS    |
|           |           |                      |              |            | -20        | -8.91            | -0.00351              | PASS    |
|           |           |                      |              |            | -10        | -2.78            | -0.0011               | PASS    |
|           |           |                      |              |            | 0          | -3.46            | -0.00136              | PASS    |
|           |           |                      |              |            | 10         | -0.79            | -0.00031              | PASS    |
|           |           |                      |              |            | 20         | -14.58           | -0.00575              | PASS    |
|           |           |                      |              |            | 30         | 2.65             | 0.00105               | PASS    |
|           |           |                      |              |            | 40         | -2.75            | -0.00108              | PASS    |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
|           |           |                      | HCH          | VN         | 50         | -0.16            | -0.00006              | PASS    |
|           |           |                      |              |            | -30        | -1.73            | -0.00067              | PASS    |
|           |           |                      |              |            | -20        | -2.89            | -0.00113              | PASS    |
|           |           |                      |              |            | -10        | 1.03             | 0.0004                | PASS    |
|           |           |                      |              |            | 0          | -19.9            | -0.00776              | PASS    |
|           |           |                      |              |            | 10         | -8.68            | -0.00338              | PASS    |
|           |           |                      |              |            | 20         | -6.22            | -0.00242              | PASS    |
|           |           |                      |              |            | 30         | 3.83             | 0.00149               | PASS    |
|           |           |                      |              |            | 40         | 8.57             | 0.00334               | PASS    |
|           |           |                      |              |            | 50         | 1.2              | 0.00047               | PASS    |
|           |           | 15                   | LCH          | VN         | -30        | -9.71            | -0.00387              | PASS    |
|           |           |                      |              |            | -20        | -12.93           | -0.00516              | PASS    |
|           |           |                      |              |            | -10        | -15.28           | -0.00609              | PASS    |
|           |           |                      |              |            | 0          | -20.99           | -0.00837              | PASS    |
|           |           |                      |              |            | 10         | -6.67            | -0.00266              | PASS    |
|           |           |                      |              |            | 20         | -3.59            | -0.00143              | PASS    |
|           |           |                      |              |            | 30         | 6.95             | 0.00277               | PASS    |
|           |           |                      |              |            | 40         | -4.65            | -0.00185              | PASS    |
|           |           |                      |              |            | 50         | 2.75             | 0.0011                | PASS    |
|           |           |                      | MCH          | VN         | -30        | -6.94            | -0.00274              | PASS    |
|           |           |                      |              |            | -20        | -6.97            | -0.00275              | PASS    |
|           |           |                      |              |            | -10        | -10.47           | -0.00413              | PASS    |
|           |           |                      |              |            | 0          | -3.25            | -0.00128              | PASS    |
|           |           |                      |              |            | 10         | 1.66             | 0.00065               | PASS    |
|           |           |                      |              |            | 20         | 0.93             | 0.00037               | PASS    |
|           |           |                      |              |            | 30         | -5.24            | -0.00207              | PASS    |
|           |           |                      |              |            | 40         | -1.75            | -0.00069              | PASS    |
|           |           |                      |              |            | 50         | -4.06            | -0.0016               | PASS    |
|           |           |                      | HCH          | VN         | -30        | -5.91            | -0.00231              | PASS    |
|           |           |                      |              |            | -20        | 0.53             | 0.00021               | PASS    |
|           |           |                      |              |            | -10        | -8.27            | -0.00323              | PASS    |
|           |           |                      |              |            | 0          | 5.98             | 0.00233               | PASS    |
|           |           |                      |              |            | 10         | -0.3             | -0.00012              | PASS    |
|           |           |                      |              |            | 20         | -4.65            | -0.00181              | PASS    |
|           |           |                      |              |            | 30         | 6.59             | 0.00257               | PASS    |
|           |           |                      |              |            | 40         | -1.12            | -0.00044              | PASS    |
|           |           |                      |              |            | 50         | 1.3              | 0.00051               | PASS    |
|           |           | 20                   | LCH          | VN         | -30        | -13.26           | -0.00528              | PASS    |
|           |           |                      |              |            | -20        | -9.94            | -0.00396              | PASS    |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
|           |           |                      |              |            | -10        | -12.83           | -0.00511              | PASS    |
|           |           |                      |              |            | 0          | -11.2            | -0.00446              | PASS    |
|           |           |                      |              |            | 10         | -11.17           | -0.00445              | PASS    |
|           |           |                      |              |            | 20         | -5.24            | -0.00209              | PASS    |
|           |           |                      |              |            | 30         | -7.65            | -0.00305              | PASS    |
|           |           |                      |              |            | 40         | -1.26            | -0.0005               | PASS    |
|           |           |                      |              |            | 50         | -9.13            | -0.00364              | PASS    |
|           |           |                      | MCH          | VN         | -30        | -9.23            | -0.00364              | PASS    |
|           |           |                      |              |            | -20        | -1.27            | -0.0005               | PASS    |
|           |           |                      |              |            | -10        | 7.28             | 0.00287               | PASS    |
|           |           |                      |              |            | 0          | 4.15             | 0.00164               | PASS    |
|           |           |                      |              |            | 10         | -4.53            | -0.00179              | PASS    |
|           |           |                      |              |            | 20         | 0.94             | 0.00037               | PASS    |
|           |           |                      |              |            | 30         | 9.56             | 0.00377               | PASS    |
|           |           |                      |              |            | 40         | 1.53             | 0.0006                | PASS    |
|           |           |                      |              |            | 50         | 7.07             | 0.00279               | PASS    |
|           |           |                      | HCH          | VN         | -30        | -10.1            | -0.00395              | PASS    |
|           |           |                      |              |            | -20        | -14.16           | -0.00553              | PASS    |
|           |           |                      |              |            | -10        | -13.03           | -0.00509              | PASS    |
|           |           |                      |              |            | 0          | -2.27            | -0.00089              | PASS    |
|           |           |                      |              |            | 10         | -10.47           | -0.00409              | PASS    |
|           |           |                      |              |            | 20         | -6.65            | -0.0026               | PASS    |
|           |           |                      |              |            | 30         | 4.28             | 0.00167               | PASS    |
|           |           |                      |              |            | 40         | 0.13             | 0.00005               | PASS    |
|           |           |                      |              |            | 50         | -13.35           | -0.00521              | PASS    |

END