



## Appendix for test report

## 1Appendix\_A: Effective (Isotropic) Radiated Power Output Data

### Part I - Test Results

| Test Band(LTE) | Test Mode | Test Bandwidth | Test Channel | Test RB | Measured[dBm] | ERP [dBm] | Limit [dBm] | Verdict |
|----------------|-----------|----------------|--------------|---------|---------------|-----------|-------------|---------|
| BAND5          | LTE/TM1   | 1.4            | LCH          | RB1#0   | 21.99         | 17.17     | 38.5        | PASS    |
|                |           |                |              | RB1#3   | 22.03         | 17.11     | 38.5        | PASS    |
|                |           |                |              | RB1#5   | 21.99         | 16.87     | 38.5        | PASS    |
|                |           |                |              | RB3#0   | 22.05         | 17.04     | 38.5        | PASS    |
|                |           |                |              | RB3#2   | 22.05         | 16.89     | 38.5        | PASS    |
|                |           |                |              | RB3#3   | 22.06         | 17.14     | 38.5        | PASS    |
|                |           |                |              | RB6#0   | 20.96         | 15.90     | 38.5        | PASS    |
|                |           |                | MCH          | RB1#0   | 21.8          | 16.75     | 38.5        | PASS    |
|                |           |                |              | RB1#3   | 21.81         | 16.90     | 38.5        | PASS    |
|                |           |                |              | RB1#5   | 21.72         | 16.71     | 38.5        | PASS    |
|                |           |                |              | RB3#0   | 21.78         | 16.75     | 38.5        | PASS    |
|                |           |                |              | RB3#2   | 21.8          | 16.69     | 38.5        | PASS    |
|                |           |                |              | RB3#3   | 21.78         | 16.86     | 38.5        | PASS    |

| Test Band(LTE) | Test Mode | Test Bandwidth | Test Channel | Test RB | Measured[dBm] | ERP [dBm] | Limit [dBm] | Verdict |
|----------------|-----------|----------------|--------------|---------|---------------|-----------|-------------|---------|
|                |           |                |              | RB6#0   | 20.75         | 15.65     | 38.5        | PASS    |
|                |           |                | HCH          | RB1#0   | 21.54         | 16.49     | 38.5        | PASS    |
|                |           |                |              | RB1#3   | 21.59         | 16.73     | 38.5        | PASS    |
|                |           |                |              | RB1#5   | 21.55         | 16.49     | 38.5        | PASS    |
|                |           |                |              | RB3#0   | 21.55         | 16.64     | 38.5        | PASS    |
|                |           |                |              | RB3#2   | 21.57         | 16.61     | 38.5        | PASS    |
|                |           |                |              | RB3#3   | 21.58         | 16.43     | 38.5        | PASS    |
|                |           |                |              | RB6#0   | 20.54         | 15.44     | 38.5        | PASS    |
|                |           | 3              | LCH          | RB1#0   | 21.92         | 16.88     | 38.5        | PASS    |
|                |           |                |              | RB1#7   | 21.93         | 16.97     | 38.5        | PASS    |
|                |           |                |              | RB1#14  | 21.86         | 16.86     | 38.5        | PASS    |
|                |           |                |              | RB8#0   | 21.03         | 15.85     | 38.5        | PASS    |
|                |           |                |              | RB8#4   | 20.98         | 16.09     | 38.5        | PASS    |
|                |           |                |              | RB8#7   | 20.97         | 16.00     | 38.5        | PASS    |
|                |           |                |              | RB15#0  | 20.99         | 16.04     | 38.5        | PASS    |
|                |           |                | MCH          | RB1#0   | 21.77         | 16.80     | 38.5        | PASS    |
|                |           |                |              | RB1#7   | 21.74         | 16.85     | 38.5        | PASS    |

| Test Band(LTE) | Test Mode | Test Bandwidth | Test Channel | Test RB | Measured[dBm] | ERP [dBm] | Limit [dBm] | Verdict |
|----------------|-----------|----------------|--------------|---------|---------------|-----------|-------------|---------|
|                |           |                |              | RB1#14  | 21.67         | 16.64     | 38.5        | PASS    |
|                |           |                |              | RB8#0   | 20.85         | 15.98     | 38.5        | PASS    |
|                |           |                |              | RB8#4   | 20.83         | 15.73     | 38.5        | PASS    |
|                |           |                |              | RB8#7   | 20.77         | 15.90     | 38.5        | PASS    |
|                |           |                |              | RB15#0  | 20.79         | 15.81     | 38.5        | PASS    |
|                |           |                | HCH          | RB1#0   | 21.73         | 16.83     | 38.5        | PASS    |
|                |           |                |              | RB1#7   | 21.52         | 16.62     | 38.5        | PASS    |
|                |           |                |              | RB1#14  | 21.49         | 16.65     | 38.5        | PASS    |
|                |           |                |              | RB8#0   | 20.66         | 15.55     | 38.5        | PASS    |
|                |           |                |              | RB8#4   | 20.64         | 15.56     | 38.5        | PASS    |
|                |           |                |              | RB8#7   | 20.59         | 15.78     | 38.5        | PASS    |
|                |           |                |              | RB15#0  | 20.64         | 15.49     | 38.5        | PASS    |
|                |           | 5              | LCH          | RB1#0   | 22.09         | 17.13     | 38.5        | PASS    |
|                |           |                |              | RB1#13  | 21.98         | 17.07     | 38.5        | PASS    |
|                |           |                |              | RB1#24  | 22.04         | 17.23     | 38.5        | PASS    |
|                |           |                |              | RB12#0  | 21            | 15.91     | 38.5        | PASS    |
|                |           |                |              | RB12#6  | 20.99         | 16.08     | 38.5        | PASS    |

| Test Band(LTE) | Test Mode | Test Bandwidth | Test Channel | Test RB | Measured[dBm] | ERP [dBm] | Limit [dBm] | Verdict |
|----------------|-----------|----------------|--------------|---------|---------------|-----------|-------------|---------|
|                |           |                |              | RB12#13 | 20.95         | 15.87     | 38.5        | PASS    |
|                |           |                |              | RB25#0  | 20.92         | 16.02     | 38.5        | PASS    |
|                |           |                | MCH          | RB1#0   | 22.05         | 17.21     | 38.5        | PASS    |
|                |           |                |              | RB1#13  | 21.85         | 16.86     | 38.5        | PASS    |
|                |           |                |              | RB1#24  | 21.83         | 16.90     | 38.5        | PASS    |
|                |           |                |              | RB12#0  | 20.91         | 15.94     | 38.5        | PASS    |
|                |           |                |              | RB12#6  | 20.85         | 15.78     | 38.5        | PASS    |
|                |           |                |              | RB12#13 | 20.8          | 15.73     | 38.5        | PASS    |
|                |           |                |              | RB25#0  | 20.81         | 15.68     | 38.5        | PASS    |
|                |           |                | HCH          | RB1#0   | 22.36         | 17.50     | 38.5        | PASS    |
|                |           |                |              | RB1#13  | 21.89         | 16.92     | 38.5        | PASS    |
|                |           |                |              | RB1#24  | 21.75         | 16.64     | 38.5        | PASS    |
|                |           |                |              | RB12#0  | 21.21         | 16.31     | 38.5        | PASS    |
|                |           |                |              | RB12#6  | 20.91         | 15.90     | 38.5        | PASS    |
|                |           |                |              | RB12#13 | 20.72         | 15.63     | 38.5        | PASS    |
|                |           |                |              | RB25#0  | 20.91         | 15.84     | 38.5        | PASS    |
|                |           | 10             | LCH          | RB1#0   | 22.02         | 16.93     | 38.5        | PASS    |

| Test Band(LTE) | Test Mode | Test Bandwidth | Test Channel | Test RB | Measured[dBm] | ERP [dBm] | Limit [dBm] | Verdict |
|----------------|-----------|----------------|--------------|---------|---------------|-----------|-------------|---------|
|                |           |                |              | RB1#25  | 21.98         | 16.93     | 38.5        | PASS    |
|                |           |                |              | RB1#49  | 22.05         | 17.09     | 38.5        | PASS    |
|                |           |                |              | RB25#0  | 20.97         | 16.10     | 38.5        | PASS    |
|                |           |                |              | RB25#13 | 21.01         | 16.03     | 38.5        | PASS    |
|                |           |                |              | RB25#25 | 21.08         | 15.93     | 38.5        | PASS    |
|                |           |                |              | RB50#0  | 21.04         | 16.07     | 38.5        | PASS    |
|                |           |                | MCH          | RB1#0   | 22            | 17.00     | 38.5        | PASS    |
|                |           |                |              | RB1#25  | 21.76         | 16.71     | 38.5        | PASS    |
|                |           |                |              | RB1#49  | 21.91         | 16.78     | 38.5        | PASS    |
|                |           |                |              | RB25#0  | 20.93         | 15.88     | 38.5        | PASS    |
|                |           |                |              | RB25#13 | 20.81         | 15.86     | 38.5        | PASS    |
|                |           |                |              | RB25#25 | 20.8          | 15.98     | 38.5        | PASS    |
|                |           |                |              | RB50#0  | 20.85         | 15.72     | 38.5        | PASS    |
|                |           |                | HCH          | RB1#0   | 21.69         | 16.81     | 38.5        | PASS    |
|                |           |                |              | RB1#25  | 22.23         | 17.41     | 38.5        | PASS    |
|                |           |                |              | RB1#49  | 21.62         | 16.81     | 38.5        | PASS    |
|                |           |                |              | RB25#0  | 21.02         | 16.07     | 38.5        | PASS    |

| Test Band(LTE) | Test Mode | Test Bandwidth | Test Channel | Test RB | Measured[dBm] | ERP [dBm] | Limit [dBm] | Verdict |
|----------------|-----------|----------------|--------------|---------|---------------|-----------|-------------|---------|
|                |           |                |              | RB25#13 | 21.17         | 16.26     | 38.5        | PASS    |
|                |           |                |              | RB25#25 | 20.92         | 15.73     | 38.5        | PASS    |
|                |           |                |              | RB50#0  | 20.97         | 15.89     | 38.5        | PASS    |
|                | LTE/TM2   | 1.4            | LCH          | RB1#0   | 21.32         | 16.38     | 38.5        | PASS    |
|                |           |                |              | RB1#3   | 21.41         | 16.28     | 38.5        | PASS    |
|                |           |                |              | RB1#5   | 21.32         | 16.21     | 38.5        | PASS    |
|                |           |                |              | RB3#0   | 21.21         | 16.09     | 38.5        | PASS    |
|                |           |                |              | RB3#2   | 21.21         | 16.38     | 38.5        | PASS    |
|                |           |                |              | RB3#3   | 21.2          | 16.18     | 38.5        | PASS    |
|                |           |                |              | RB6#0   | 20.1          | 15.25     | 38.5        | PASS    |
|                |           |                | MCH          | RB1#0   | 21.13         | 16.05     | 38.5        | PASS    |
|                |           |                |              | RB1#3   | 21.16         | 16.00     | 38.5        | PASS    |
|                |           |                |              | RB1#5   | 21.08         | 15.98     | 38.5        | PASS    |
|                |           |                |              | RB3#0   | 20.96         | 15.99     | 38.5        | PASS    |
|                |           |                |              | RB3#2   | 20.97         | 16.14     | 38.5        | PASS    |
|                |           |                |              | RB3#3   | 20.94         | 15.98     | 38.5        | PASS    |
|                |           |                |              | RB6#0   | 19.87         | 14.70     | 38.5        | PASS    |

| Test Band(LTE) | Test Mode | Test Bandwidth | Test Channel | Test RB | Measured[dBm] | ERP [dBm] | Limit [dBm] | Verdict |
|----------------|-----------|----------------|--------------|---------|---------------|-----------|-------------|---------|
|                |           |                | HCH          | RB1#0   | 20.85         | 15.95     | 38.5        | PASS    |
|                |           |                |              | RB1#3   | 20.94         | 15.98     | 38.5        | PASS    |
|                |           |                |              | RB1#5   | 20.86         | 15.80     | 38.5        | PASS    |
|                |           |                |              | RB3#0   | 20.76         | 15.79     | 38.5        | PASS    |
|                |           |                |              | RB3#2   | 20.75         | 15.72     | 38.5        | PASS    |
|                |           |                |              | RB3#3   | 20.77         | 15.57     | 38.5        | PASS    |
|                |           |                |              | RB6#0   | 19.68         | 14.86     | 38.5        | PASS    |
|                |           | 3              | LCH          | RB1#0   | 21.37         | 16.53     | 38.5        | PASS    |
|                |           |                |              | RB1#7   | 21.38         | 16.33     | 38.5        | PASS    |
|                |           |                |              | RB1#14  | 21.27         | 16.43     | 38.5        | PASS    |
|                |           |                |              | RB8#0   | 20.15         | 15.17     | 38.5        | PASS    |
|                |           |                |              | RB8#4   | 20.12         | 15.29     | 38.5        | PASS    |
|                |           |                |              | RB8#7   | 20.11         | 15.07     | 38.5        | PASS    |
|                |           |                |              | RB15#0  | 20.05         | 15.04     | 38.5        | PASS    |
|                |           |                | MCH          | RB1#0   | 21.21         | 16.05     | 38.5        | PASS    |
|                |           |                |              | RB1#7   | 21.19         | 16.12     | 38.5        | PASS    |
|                |           |                |              | RB1#14  | 21.09         | 16.00     | 38.5        | PASS    |

| Test Band(LTE) | Test Mode | Test Bandwidth | Test Channel | Test RB | Measured[dBm] | ERP [dBm] | Limit [dBm] | Verdict |
|----------------|-----------|----------------|--------------|---------|---------------|-----------|-------------|---------|
|                |           |                |              | RB8#0   | 19.97         | 14.86     | 38.5        | PASS    |
|                |           |                |              | RB8#4   | 19.96         | 14.97     | 38.5        | PASS    |
|                |           |                |              | RB8#7   | 19.92         | 14.73     | 38.5        | PASS    |
|                |           |                |              | RB15#0  | 19.84         | 14.76     | 38.5        | PASS    |
|                |           |                | HCH          | RB1#0   | 21.18         | 16.01     | 38.5        | PASS    |
|                |           |                |              | RB1#7   | 20.96         | 16.10     | 38.5        | PASS    |
|                |           |                |              | RB1#14  | 20.88         | 15.89     | 38.5        | PASS    |
|                |           |                |              | RB8#0   | 19.8          | 14.77     | 38.5        | PASS    |
|                |           |                |              | RB8#4   | 19.73         | 14.62     | 38.5        | PASS    |
|                |           |                |              | RB8#7   | 19.72         | 14.60     | 38.5        | PASS    |
|                |           |                |              | RB15#0  | 19.71         | 14.76     | 38.5        | PASS    |
|                |           | 5              | LCH          | RB1#0   | 21.26         | 16.20     | 38.5        | PASS    |
|                |           |                |              | RB1#13  | 21.2          | 16.08     | 38.5        | PASS    |
|                |           |                |              | RB1#24  | 21.23         | 16.13     | 38.5        | PASS    |
|                |           |                |              | RB12#0  | 20.04         | 14.98     | 38.5        | PASS    |
|                |           |                |              | RB12#6  | 20.02         | 14.96     | 38.5        | PASS    |
|                |           |                |              | RB12#13 | 19.99         | 14.92     | 38.5        | PASS    |

| Test Band(LTE) | Test Mode | Test Bandwidth | Test Channel | Test RB | Measured[dBm] | ERP [dBm] | Limit [dBm] | Verdict |
|----------------|-----------|----------------|--------------|---------|---------------|-----------|-------------|---------|
|                |           |                |              | RB25#0  | 19.91         | 15.03     | 38.5        | PASS    |
|                |           |                | MCH          | RB1#0   | 21.19         | 16.36     | 38.5        | PASS    |
|                |           |                |              | RB1#13  | 21.06         | 15.87     | 38.5        | PASS    |
|                |           |                |              | RB1#24  | 21.05         | 15.98     | 38.5        | PASS    |
|                |           |                |              | RB12#0  | 19.93         | 14.88     | 38.5        | PASS    |
|                |           |                |              | RB12#6  | 19.87         | 14.91     | 38.5        | PASS    |
|                |           |                |              | RB12#13 | 19.83         | 14.77     | 38.5        | PASS    |
|                |           |                |              | RB25#0  | 19.78         | 14.77     | 38.5        | PASS    |
|                |           |                | HCH          | RB1#0   | 21.54         | 16.55     | 38.5        | PASS    |
|                |           |                |              | RB1#13  | 21.07         | 16.06     | 38.5        | PASS    |
|                |           |                |              | RB1#24  | 20.92         | 15.80     | 38.5        | PASS    |
|                |           |                |              | RB12#0  | 20.24         | 15.08     | 38.5        | PASS    |
|                |           |                |              | RB12#6  | 19.94         | 14.85     | 38.5        | PASS    |
|                |           |                |              | RB12#13 | 19.75         | 14.71     | 38.5        | PASS    |
|                |           |                |              | RB25#0  | 19.89         | 15.06     | 38.5        | PASS    |
|                |           | 10             | LCH          | RB1#0   | 21.46         | 16.35     | 38.5        | PASS    |
|                |           |                |              | RB1#25  | 21.43         | 16.49     | 38.5        | PASS    |

| Test Band(LTE) | Test Mode | Test Bandwidth | Test Channel | Test RB | Measured[dBm] | ERP [dBm] | Limit [dBm] | Verdict |
|----------------|-----------|----------------|--------------|---------|---------------|-----------|-------------|---------|
|                |           |                |              | RB1#49  | 21.46         | 16.52     | 38.5        | PASS    |
|                |           |                |              | RB25#0  | 20            | 15.02     | 38.5        | PASS    |
|                |           |                |              | RB25#13 | 20.01         | 14.89     | 38.5        | PASS    |
|                |           |                |              | RB25#25 | 20.08         | 15.01     | 38.5        | PASS    |
|                |           |                |              | RB50#0  | 20.05         | 15.07     | 38.5        | PASS    |
|                |           |                | MCH          | RB1#0   | 21.45         | 16.31     | 38.5        | PASS    |
|                |           |                |              | RB1#25  | 21.22         | 16.10     | 38.5        | PASS    |
|                |           |                |              | RB1#49  | 21.34         | 16.17     | 38.5        | PASS    |
|                |           |                |              | RB25#0  | 19.94         | 14.74     | 38.5        | PASS    |
|                |           |                |              | RB25#13 | 19.81         | 14.87     | 38.5        | PASS    |
|                |           |                |              | RB25#25 | 19.78         | 14.96     | 38.5        | PASS    |
|                |           |                |              | RB50#0  | 19.87         | 14.83     | 38.5        | PASS    |
|                |           |                | HCH          | RB1#0   | 21.16         | 16.25     | 38.5        | PASS    |
|                |           |                |              | RB1#25  | 21.68         | 16.81     | 38.5        | PASS    |
|                |           |                |              | RB1#49  | 21.04         | 15.96     | 38.5        | PASS    |
|                |           |                |              | RB25#0  | 20.04         | 14.99     | 38.5        | PASS    |
|                |           |                |              | RB25#13 | 20.19         | 15.30     | 38.5        | PASS    |



| Test Band(LTE) | Test Mode | Test Bandwidth | Test Channel | Test RB | Measured[dBm] | ERP [dBm] | Limit [dBm] | Verdict |
|----------------|-----------|----------------|--------------|---------|---------------|-----------|-------------|---------|
|                |           |                |              | RB25#25 | 19.91         | 14.89     | 38.5        | PASS    |
|                |           |                |              | RB50#0  | 20            | 14.81     | 38.5        | PASS    |

Note1:

a, For getting the ERP (Efficient Radiated Power) or EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

b, SGP=Signal Generator Level

Note2:

$$\text{SET Span} = 1.5 * \text{OBW}$$

$$\text{SET RBW} = 1\% \text{ of the OBW, not to exceed 1MHz}$$

$$\text{SET VBW} \geq 3 * \text{RBW}$$

SET Sweep time=auto-couple.

Detector:RMS

## 2Appendix\_B: Peak-to-Average Ratio

### Part I - Test Results

| Test Band(For LTE) | Test Mode | Test Bandwidth (MHz) | Test Channel | Test RB | Measured[dB] | Limit [dB] | Verdict |
|--------------------|-----------|----------------------|--------------|---------|--------------|------------|---------|
| BAND5              | LTE/TM1   | 1.4                  | LCH          | RB1#0   | 4.78         | 13         | PASS    |
|                    |           |                      |              | RB1#3   | 4.69         | 13         | PASS    |
|                    |           |                      |              | RB1#5   | 4.8          | 13         | PASS    |
|                    |           |                      |              | RB3#0   | 5.84         | 13         | PASS    |
|                    |           |                      |              | RB3#2   | 5.85         | 13         | PASS    |
|                    |           |                      |              | RB3#3   | 5.82         | 13         | PASS    |
|                    |           |                      |              | RB6#0   | 7.06         | 13         | PASS    |
|                    |           |                      | MCH          | RB1#0   | 4.8          | 13         | PASS    |
|                    |           |                      |              | RB1#3   | 4.87         | 13         | PASS    |
|                    |           |                      |              | RB1#5   | 4.84         | 13         | PASS    |
|                    |           |                      |              | RB3#0   | 5.81         | 13         | PASS    |
|                    |           |                      |              | RB3#2   | 5.82         | 13         | PASS    |
|                    |           |                      |              | RB3#3   | 5.83         | 13         | PASS    |
|                    |           |                      |              | RB6#0   | 7.06         | 13         | PASS    |
|                    |           |                      | HCH          | RB1#0   | 4.76         | 13         | PASS    |
|                    |           |                      |              | RB1#3   | 4.72         | 13         | PASS    |
|                    |           |                      |              | RB1#5   | 4.62         | 13         | PASS    |
|                    |           |                      |              | RB3#0   | 5.73         | 13         | PASS    |
|                    |           |                      |              | RB3#2   | 5.59         | 13         | PASS    |
|                    |           |                      |              | RB3#3   | 5.56         | 13         | PASS    |
|                    |           |                      | 3            | LCH     | RB6#0        | 7.13       | 13      |
|                    |           | RB1#0                |              |         | 5.05         | 13         | PASS    |
|                    |           | RB1#7                |              |         | 4.81         | 13         | PASS    |
|                    |           | RB1#14               |              |         | 4.96         | 13         | PASS    |
|                    |           | RB8#0                |              |         | 6.78         | 13         | PASS    |
|                    |           | RB8#4                |              |         | 6.77         | 13         | PASS    |
|                    |           | RB8#7                |              |         | 6.74         | 13         | PASS    |
|                    |           | RB15#0               |              | 6.46    | 13           | PASS       |         |
|                    |           | MCH                  |              | RB1#0   | 5.03         | 13         | PASS    |
|                    |           |                      | RB1#7        | 5.08    | 13           | PASS       |         |

| Test Band(For LTE) | Test Mode | Test Bandwidth (MHz) | Test Channel | Test RB | Measured[dB] | Limit [dB] | Verdict |
|--------------------|-----------|----------------------|--------------|---------|--------------|------------|---------|
|                    |           |                      |              | RB1#14  | 5.1          | 13         | PASS    |
|                    |           |                      |              | RB8#0   | 6.65         | 13         | PASS    |
|                    |           |                      |              | RB8#4   | 6.67         | 13         | PASS    |
|                    |           |                      |              | RB8#7   | 6.68         | 13         | PASS    |
|                    |           |                      |              | RB15#0  | 6.31         | 13         | PASS    |
|                    |           |                      | HCH          | RB1#0   | 5.21         | 13         | PASS    |
|                    |           |                      |              | RB1#7   | 5.04         | 13         | PASS    |
|                    |           |                      |              | RB1#14  | 4.85         | 13         | PASS    |
|                    |           |                      |              | RB8#0   | 6.72         | 13         | PASS    |
|                    |           |                      |              | RB8#4   | 6.61         | 13         | PASS    |
|                    |           |                      |              | RB8#7   | 6.55         | 13         | PASS    |
|                    |           |                      |              | RB15#0  | 6.02         | 13         | PASS    |
|                    |           | 5                    | LCH          | RB1#0   | 4.72         | 13         | PASS    |
|                    |           |                      |              | RB1#13  | 4.9          | 13         | PASS    |
|                    |           |                      |              | RB1#24  | 4.88         | 13         | PASS    |
|                    |           |                      |              | RB12#0  | 6.41         | 13         | PASS    |
|                    |           |                      |              | RB12#6  | 6.33         | 13         | PASS    |
|                    |           |                      |              | RB12#13 | 6.27         | 13         | PASS    |
|                    |           |                      |              | RB25#0  | 6.28         | 13         | PASS    |
|                    |           |                      | MCH          | RB1#0   | 4.86         | 13         | PASS    |
|                    |           |                      |              | RB1#13  | 4.94         | 13         | PASS    |
|                    |           |                      |              | RB1#24  | 4.94         | 13         | PASS    |
|                    |           |                      |              | RB12#0  | 6.36         | 13         | PASS    |
|                    |           |                      |              | RB12#6  | 6.31         | 13         | PASS    |
|                    |           |                      |              | RB12#13 | 6.41         | 13         | PASS    |
|                    |           |                      |              | RB25#0  | 6.19         | 13         | PASS    |
|                    |           |                      | HCH          | RB1#0   | 5.11         | 13         | PASS    |
|                    |           |                      |              | RB1#13  | 4.97         | 13         | PASS    |
|                    |           |                      |              | RB1#24  | 4.74         | 13         | PASS    |
|                    |           |                      |              | RB12#0  | 6.34         | 13         | PASS    |
|                    |           |                      |              | RB12#6  | 6.25         | 13         | PASS    |
|                    |           |                      |              | RB12#13 | 6.17         | 13         | PASS    |
|                    |           |                      |              | RB25#0  | 6.08         | 13         | PASS    |
|                    |           | 10                   | LCH          | RB1#0   | 5.01         | 13         | PASS    |
|                    |           |                      |              | RB1#25  | 4.98         | 13         | PASS    |
|                    |           |                      |              | RB1#49  | 5            | 13         | PASS    |
|                    |           |                      |              | RB25#0  | 6.43         | 13         | PASS    |
|                    |           |                      |              | RB25#13 | 6.41         | 13         | PASS    |
|                    |           |                      |              | RB25#25 | 6.38         | 13         | PASS    |

| Test Band(For LTE) | Test Mode | Test Bandwidth (MHz) | Test Channel | Test RB | Measured[dB] | Limit [dB] | Verdict |
|--------------------|-----------|----------------------|--------------|---------|--------------|------------|---------|
|                    |           |                      |              | RB50#0  | 6.66         | 13         | PASS    |
|                    |           |                      | MCH          | RB1#0   | 4.96         | 13         | PASS    |
|                    |           |                      |              | RB1#25  | 5.06         | 13         | PASS    |
|                    |           |                      |              | RB1#49  | 5.24         | 13         | PASS    |
|                    |           |                      |              | RB25#0  | 6.28         | 13         | PASS    |
|                    |           |                      |              | RB25#13 | 6.45         | 13         | PASS    |
|                    |           |                      |              | RB25#25 | 6.53         | 13         | PASS    |
|                    |           |                      |              | RB50#0  | 6.65         | 13         | PASS    |
|                    |           |                      | HCH          | RB1#0   | 5            | 13         | PASS    |
|                    |           |                      |              | RB1#25  | 5.24         | 13         | PASS    |
|                    |           |                      |              | RB1#49  | 4.91         | 13         | PASS    |
|                    |           |                      |              | RB25#0  | 6.56         | 13         | PASS    |
|                    |           |                      |              | RB25#13 | 6.6          | 13         | PASS    |
|                    |           |                      |              | RB25#25 | 6.49         | 13         | PASS    |
|                    |           |                      |              | RB50#0  | 6.84         | 13         | PASS    |
|                    | LTE/TM2   | 1.4                  | LCH          | RB1#0   | 5.88         | 13         | PASS    |
|                    |           |                      |              | RB1#3   | 6.08         | 13         | PASS    |
|                    |           |                      |              | RB1#5   | 6.05         | 13         | PASS    |
|                    |           |                      |              | RB3#0   | 6.81         | 13         | PASS    |
|                    |           |                      |              | RB3#2   | 6.85         | 13         | PASS    |
|                    |           |                      |              | RB3#3   | 6.88         | 13         | PASS    |
|                    |           |                      |              | RB6#0   | 6.98         | 13         | PASS    |
|                    |           |                      | MCH          | RB1#0   | 6.1          | 13         | PASS    |
|                    |           |                      |              | RB1#3   | 6.17         | 13         | PASS    |
|                    |           |                      |              | RB1#5   | 5.98         | 13         | PASS    |
|                    |           |                      |              | RB3#0   | 6.79         | 13         | PASS    |
|                    |           |                      |              | RB3#2   | 6.82         | 13         | PASS    |
|                    |           |                      |              | RB3#3   | 6.87         | 13         | PASS    |
|                    |           |                      |              | RB6#0   | 6.84         | 13         | PASS    |
|                    |           |                      | HCH          | RB1#0   | 6.04         | 13         | PASS    |
|                    |           |                      |              | RB1#3   | 5.98         | 13         | PASS    |
|                    |           |                      |              | RB1#5   | 5.89         | 13         | PASS    |
|                    |           |                      |              | RB3#0   | 6.73         | 13         | PASS    |
|                    |           |                      |              | RB3#2   | 6.61         | 13         | PASS    |
|                    |           |                      |              | RB3#3   | 6.65         | 13         | PASS    |
|                    |           |                      |              | RB6#0   | 6.8          | 13         | PASS    |
|                    |           | 3                    | LCH          | RB1#0   | 6.19         | 13         | PASS    |
|                    |           |                      |              | RB1#7   | 6.21         | 13         | PASS    |
|                    |           |                      |              | RB1#14  | 6.22         | 13         | PASS    |

| Test Band(For LTE) | Test Mode | Test Bandwidth (MHz) | Test Channel | Test RB | Measured[dB] | Limit [dB] | Verdict |
|--------------------|-----------|----------------------|--------------|---------|--------------|------------|---------|
|                    |           |                      |              | RB8#0   | 7.16         | 13         | PASS    |
|                    |           |                      |              | RB8#4   | 7.2          | 13         | PASS    |
|                    |           |                      |              | RB8#7   | 7.2          | 13         | PASS    |
|                    |           |                      |              | RB15#0  | 7.42         | 13         | PASS    |
|                    |           |                      | MCH          | RB1#0   | 6.28         | 13         | PASS    |
|                    |           |                      |              | RB1#7   | 6.38         | 13         | PASS    |
|                    |           |                      |              | RB1#14  | 6.3          | 13         | PASS    |
|                    |           |                      |              | RB8#0   | 7.02         | 13         | PASS    |
|                    |           |                      |              | RB8#4   | 7.05         | 13         | PASS    |
|                    |           |                      |              | RB8#7   | 7.07         | 13         | PASS    |
|                    |           |                      |              | RB15#0  | 7.18         | 13         | PASS    |
|                    |           |                      | HCH          | RB1#0   | 6.55         | 13         | PASS    |
|                    |           |                      |              | RB1#7   | 6.31         | 13         | PASS    |
|                    |           |                      |              | RB1#14  | 6.14         | 13         | PASS    |
|                    |           |                      |              | RB8#0   | 7.17         | 13         | PASS    |
|                    |           |                      |              | RB8#4   | 7.1          | 13         | PASS    |
|                    |           |                      |              | RB8#7   | 7.02         | 13         | PASS    |
|                    |           |                      |              | RB15#0  | 7.19         | 13         | PASS    |
|                    |           | 5                    | LCH          | RB1#0   | 6.15         | 13         | PASS    |
|                    |           |                      |              | RB1#13  | 6.15         | 13         | PASS    |
|                    |           |                      |              | RB1#24  | 6.2          | 13         | PASS    |
|                    |           |                      |              | RB12#0  | 7.19         | 13         | PASS    |
|                    |           |                      |              | RB12#6  | 7.17         | 13         | PASS    |
|                    |           |                      |              | RB12#13 | 7.12         | 13         | PASS    |
|                    |           |                      |              | RB25#0  | 7.4          | 13         | PASS    |
|                    |           |                      | MCH          | RB1#0   | 6.21         | 13         | PASS    |
|                    |           |                      |              | RB1#13  | 6.11         | 13         | PASS    |
|                    |           |                      |              | RB1#24  | 6.41         | 13         | PASS    |
|                    |           |                      |              | RB12#0  | 7.11         | 13         | PASS    |
|                    |           |                      |              | RB12#6  | 7.12         | 13         | PASS    |
|                    |           |                      |              | RB12#13 | 7.24         | 13         | PASS    |
|                    |           |                      |              | RB25#0  | 7.5          | 13         | PASS    |
|                    |           |                      | HCH          | RB1#0   | 6.49         | 13         | PASS    |
|                    |           |                      |              | RB1#13  | 6.32         | 13         | PASS    |
|                    |           |                      |              | RB1#24  | 6.07         | 13         | PASS    |
|                    |           |                      |              | RB12#0  | 7.26         | 13         | PASS    |
|                    |           |                      |              | RB12#6  | 7.21         | 13         | PASS    |
|                    |           |                      |              | RB12#13 | 7.26         | 13         | PASS    |
|                    |           |                      |              | RB25#0  | 7.49         | 13         | PASS    |

| Test Band(For LTE) | Test Mode | Test Bandwidth (MHz) | Test Channel | Test RB | Measured[dB] | Limit [dB] | Verdict |
|--------------------|-----------|----------------------|--------------|---------|--------------|------------|---------|
|                    |           | 10                   | LCH          | RB1#0   | 6.3          | 13         | PASS    |
|                    |           |                      |              | RB1#25  | 6.31         | 13         | PASS    |
|                    |           |                      |              | RB1#49  | 6.36         | 13         | PASS    |
|                    |           |                      |              | RB25#0  | 8.04         | 13         | PASS    |
|                    |           |                      |              | RB25#13 | 8.02         | 13         | PASS    |
|                    |           |                      |              | RB25#25 | 7.98         | 13         | PASS    |
|                    |           |                      |              | RB50#0  | 7.91         | 13         | PASS    |
|                    |           |                      | MCH          | RB1#0   | 6.33         | 13         | PASS    |
|                    |           |                      |              | RB1#25  | 6.43         | 13         | PASS    |
|                    |           |                      |              | RB1#49  | 6.67         | 13         | PASS    |
|                    |           |                      |              | RB25#0  | 7.75         | 13         | PASS    |
|                    |           |                      |              | RB25#13 | 7.98         | 13         | PASS    |
|                    |           |                      |              | RB25#25 | 8.01         | 13         | PASS    |
|                    |           |                      |              | RB50#0  | 8.14         | 13         | PASS    |
|                    |           |                      | HCH          | RB1#0   | 6.52         | 13         | PASS    |
|                    |           |                      |              | RB1#25  | 6.63         | 13         | PASS    |
|                    |           |                      |              | RB1#49  | 6.28         | 13         | PASS    |
|                    |           |                      |              | RB25#0  | 8.35         | 13         | PASS    |
|                    |           |                      |              | RB25#13 | 8.45         | 13         | PASS    |
|                    |           |                      |              | RB25#25 | 8.1          | 13         | PASS    |
|                    |           |                      |              | RB50#0  | 8.22         | 13         | PASS    |

## 3Appendix\_C: Modulation Characteristics

### Part I - Test Plots

#### 3.1 For LTE

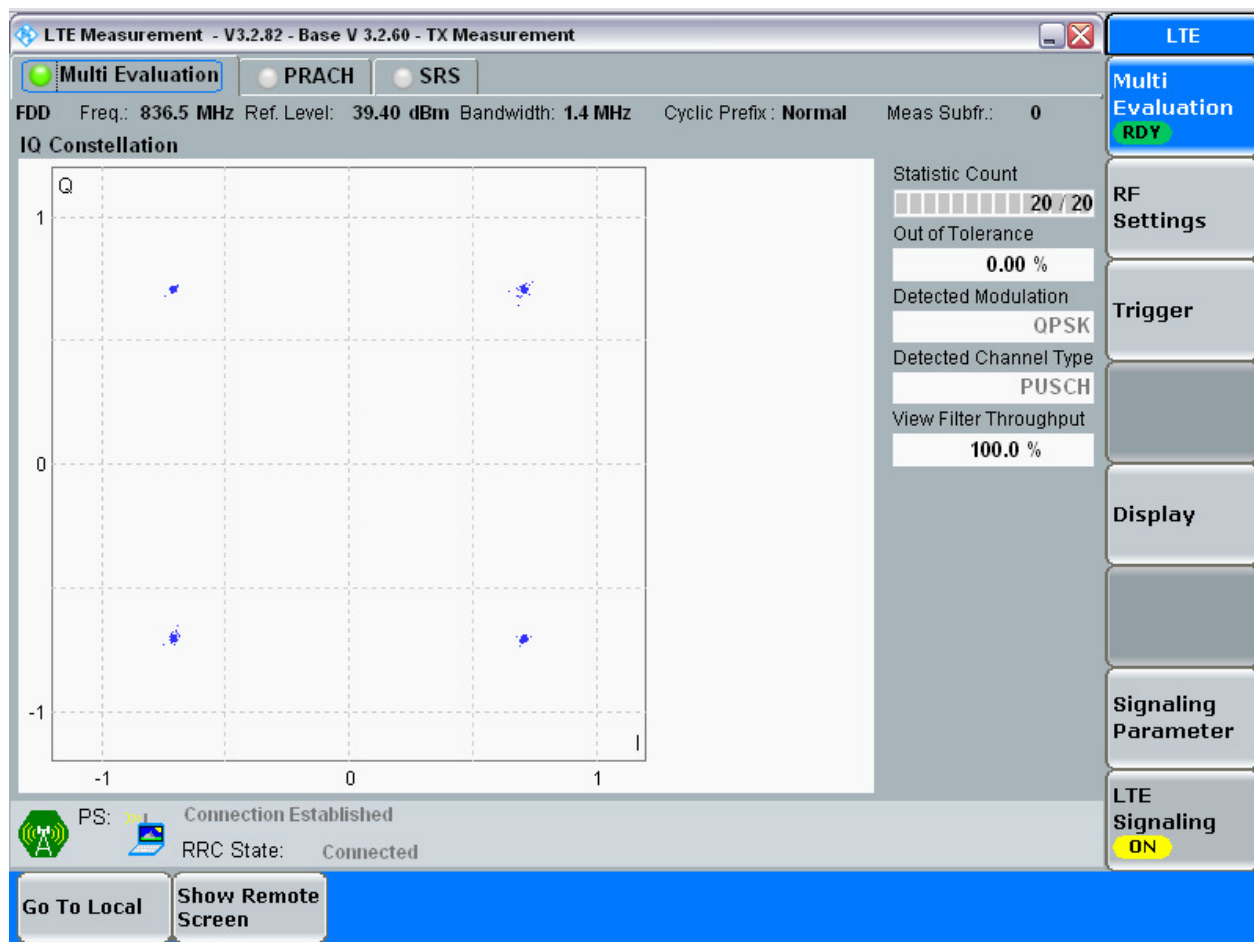
##### 3.1.1 Test Band = BAND5

##### 3.1.1.1 Test Mode = LTE/TM1

##### 3.1.1.1.1 Test Bandwidth = 1.4

##### 3.1.1.1.1.1 Test Channel = MCH

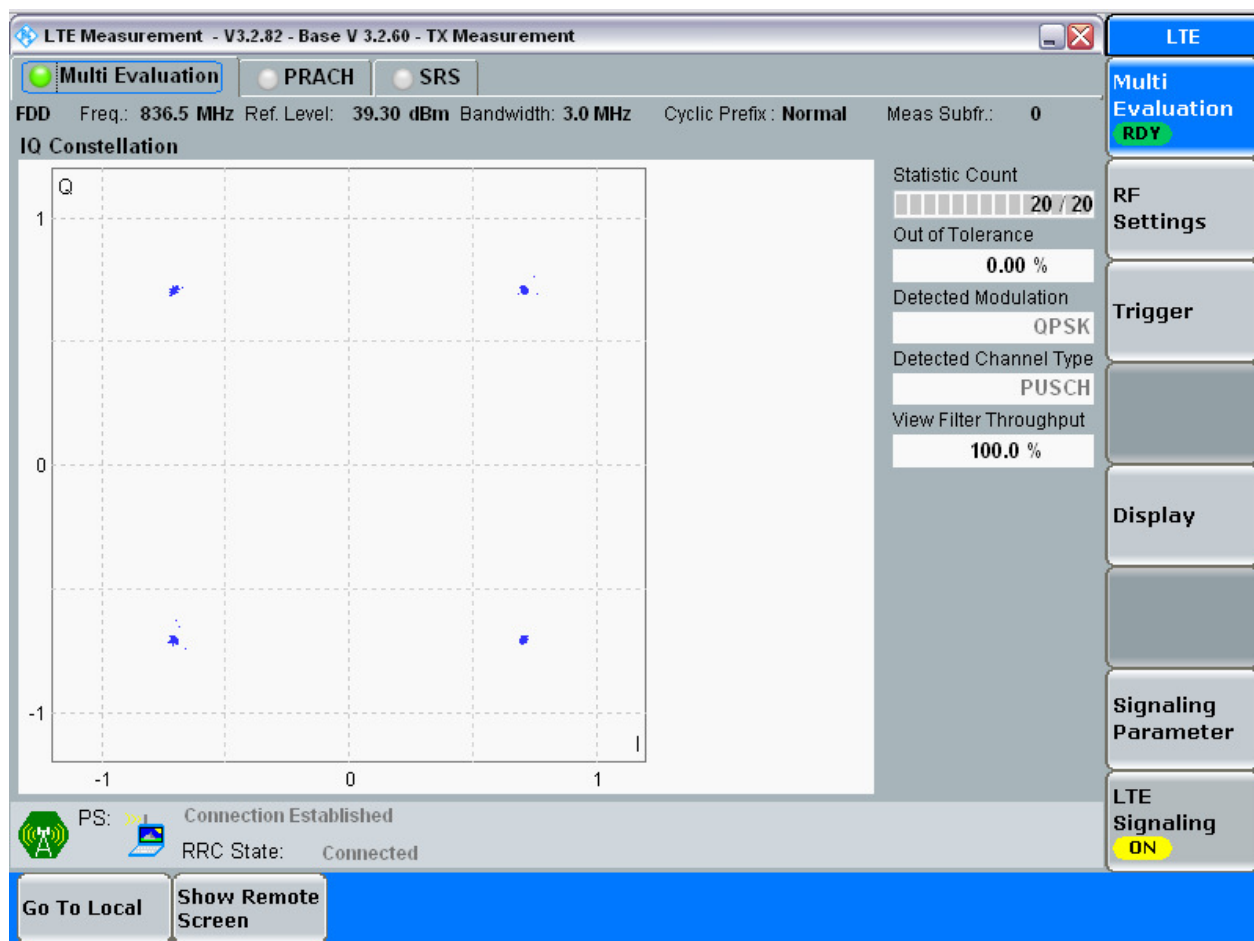
##### 3.1.1.1.1.1.1 Test RB = RB6#0



### 3.1.1.1.2 Test Bandwidth = 3

#### 3.1.1.1.2.1 Test Channel = MCH

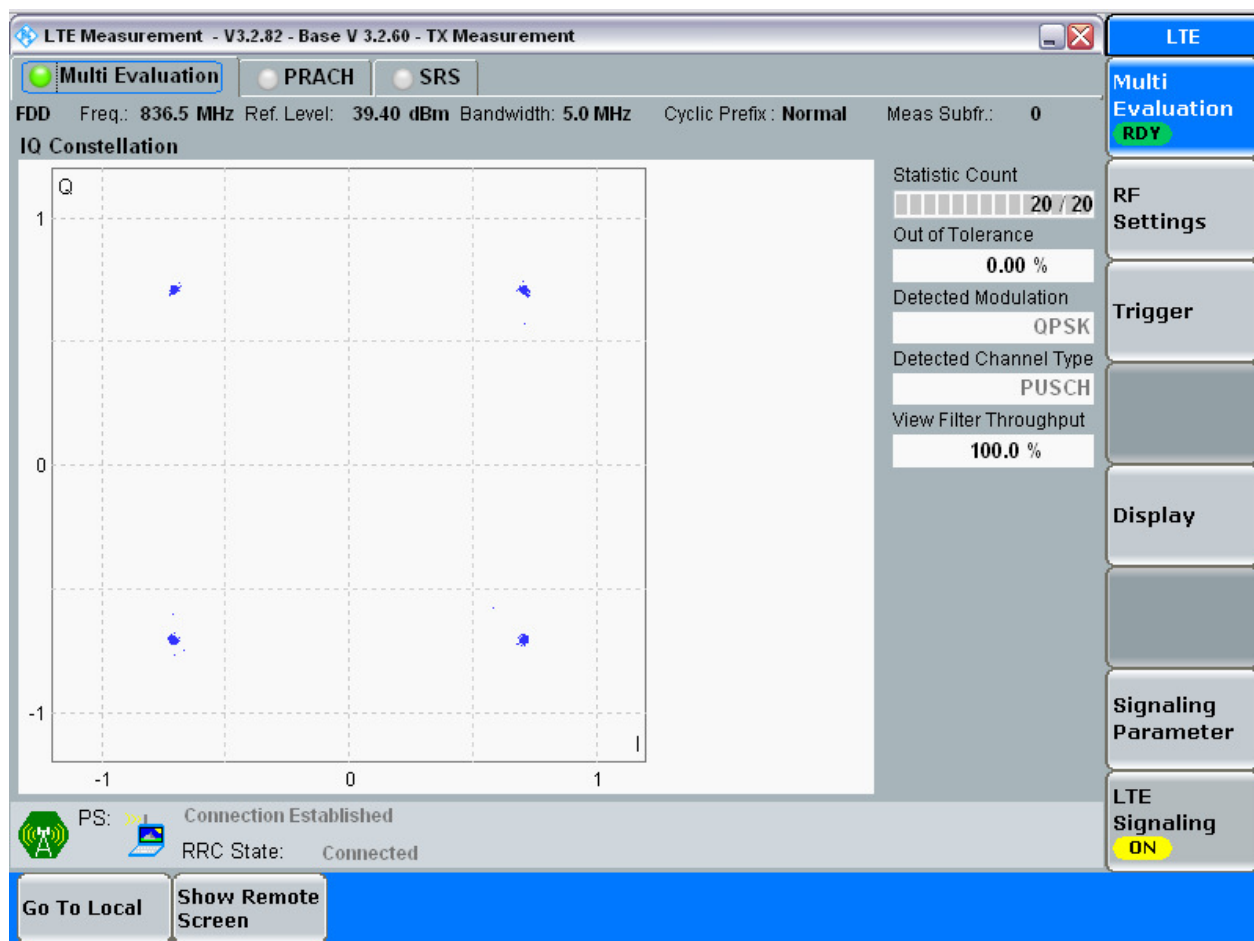
##### 3.1.1.1.2.1.1 Test RB = RB15#0



### 3.1.1.1.3 Test Bandwidth = 5

#### 3.1.1.1.3.1 Test Channel = MCH

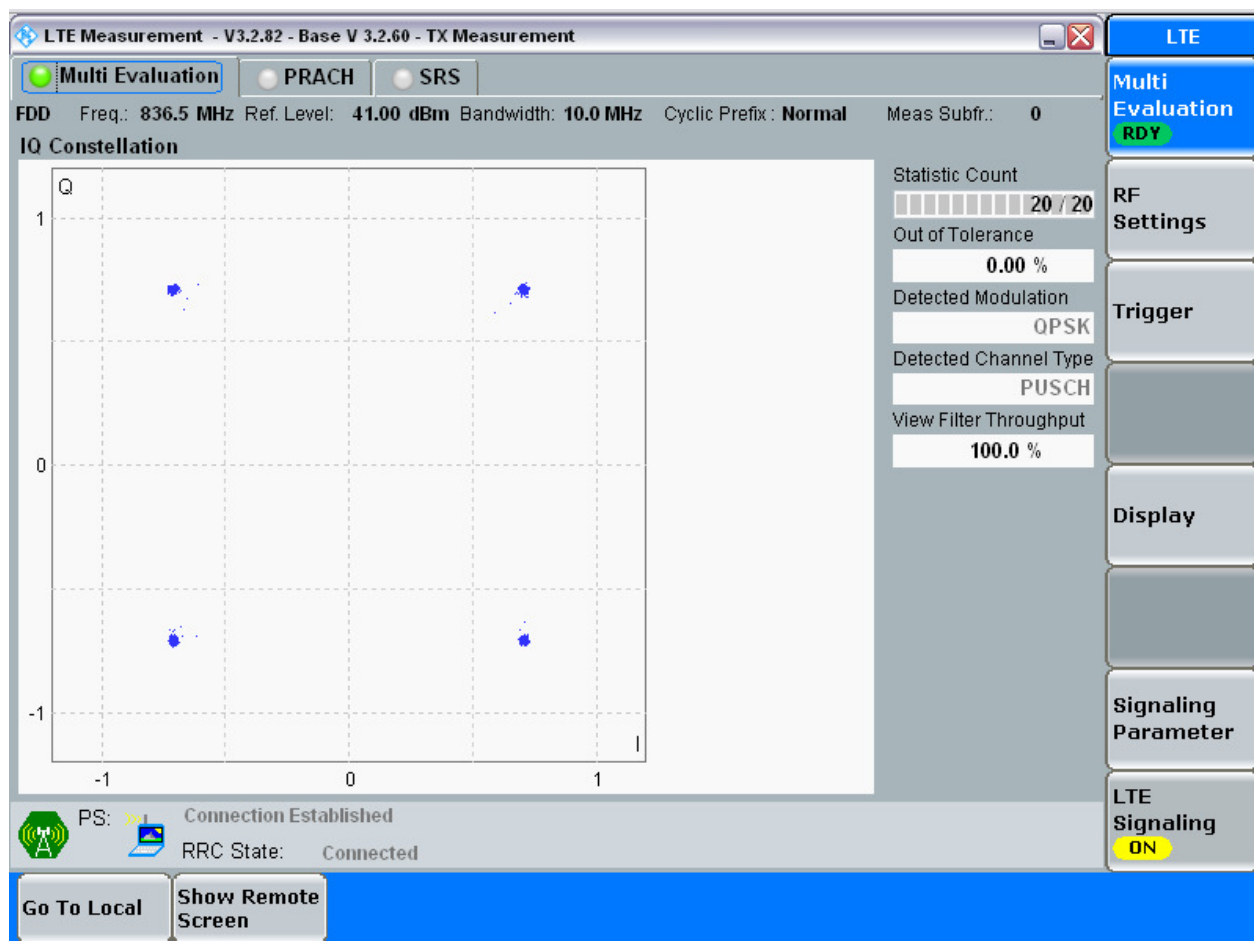
##### 3.1.1.1.3.1.1 Test RB = RB25#0



### 3.1.1.1.4 Test Bandwidth = 10

#### 3.1.1.1.4.1 Test Channel = MCH

##### 3.1.1.1.4.1.1 Test RB = RB50#0

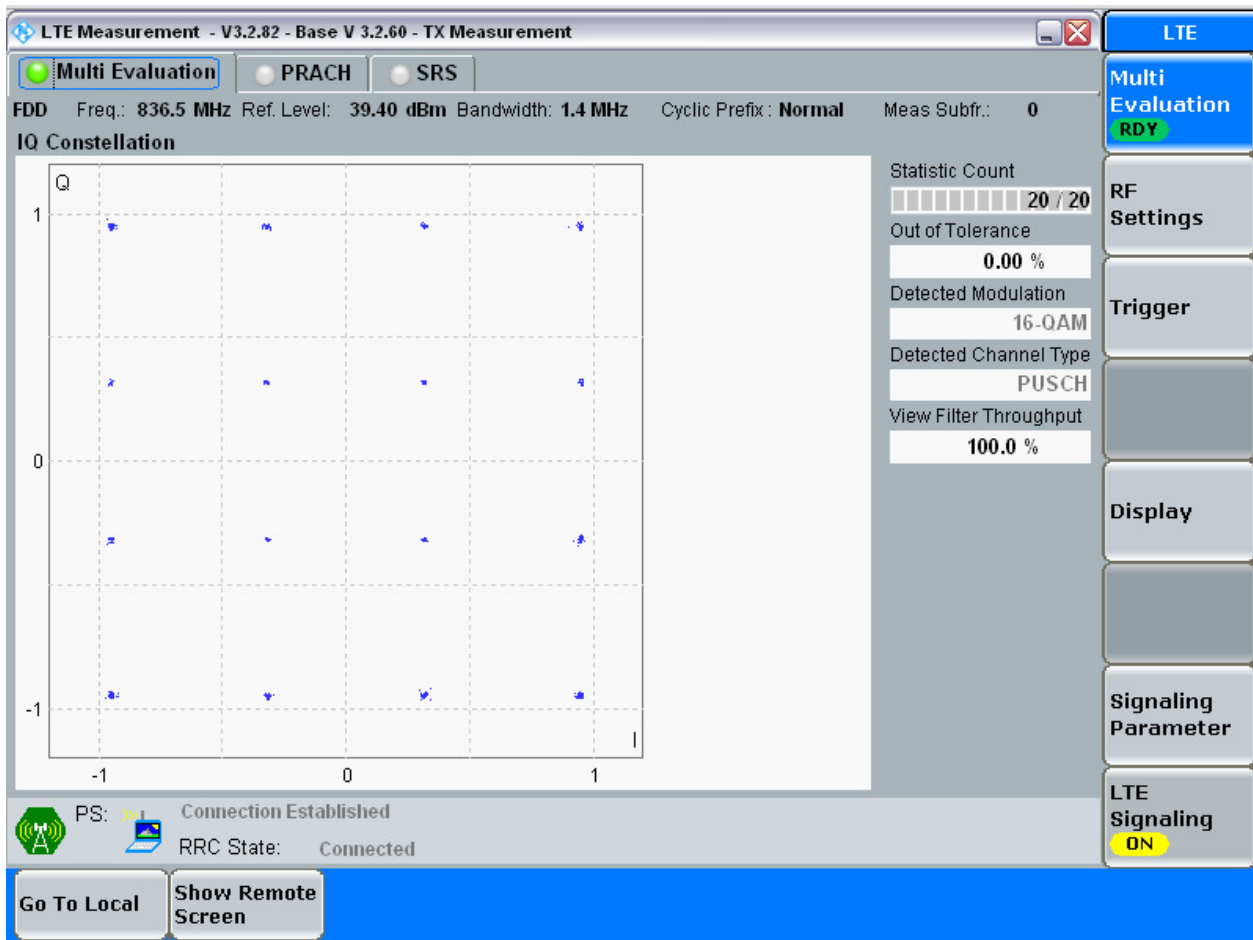


### 3.1.1.2 Test Mode = LTE/TM2

#### 3.1.1.2.1 Test Bandwidth = 1.4

##### 3.1.1.2.1.1 Test Channel = MCH

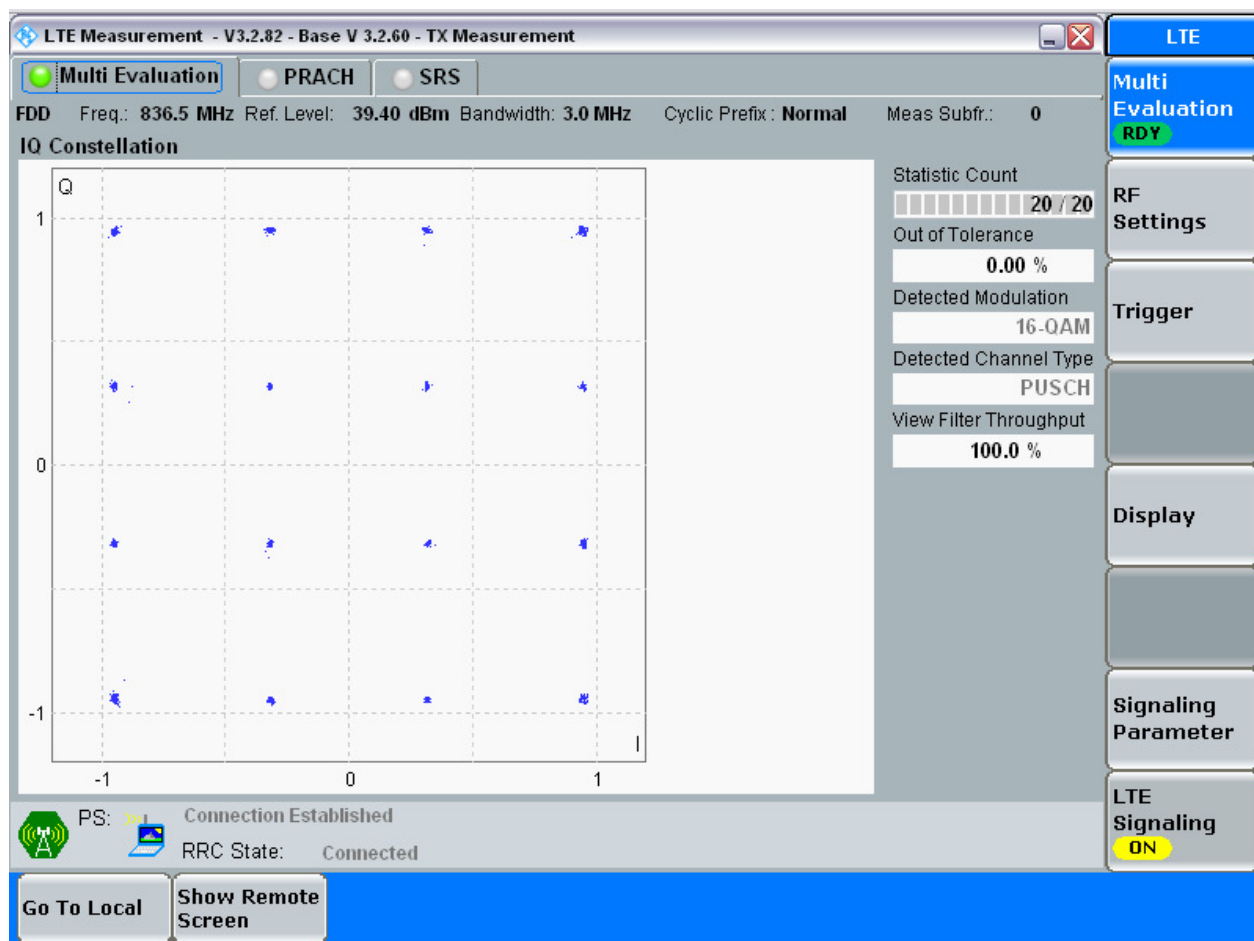
##### 3.1.1.2.1.1.1 Test RB = RB6#0



### 3.1.1.2.2 Test Bandwidth = 3

#### 3.1.1.2.2.1 Test Channel = MCH

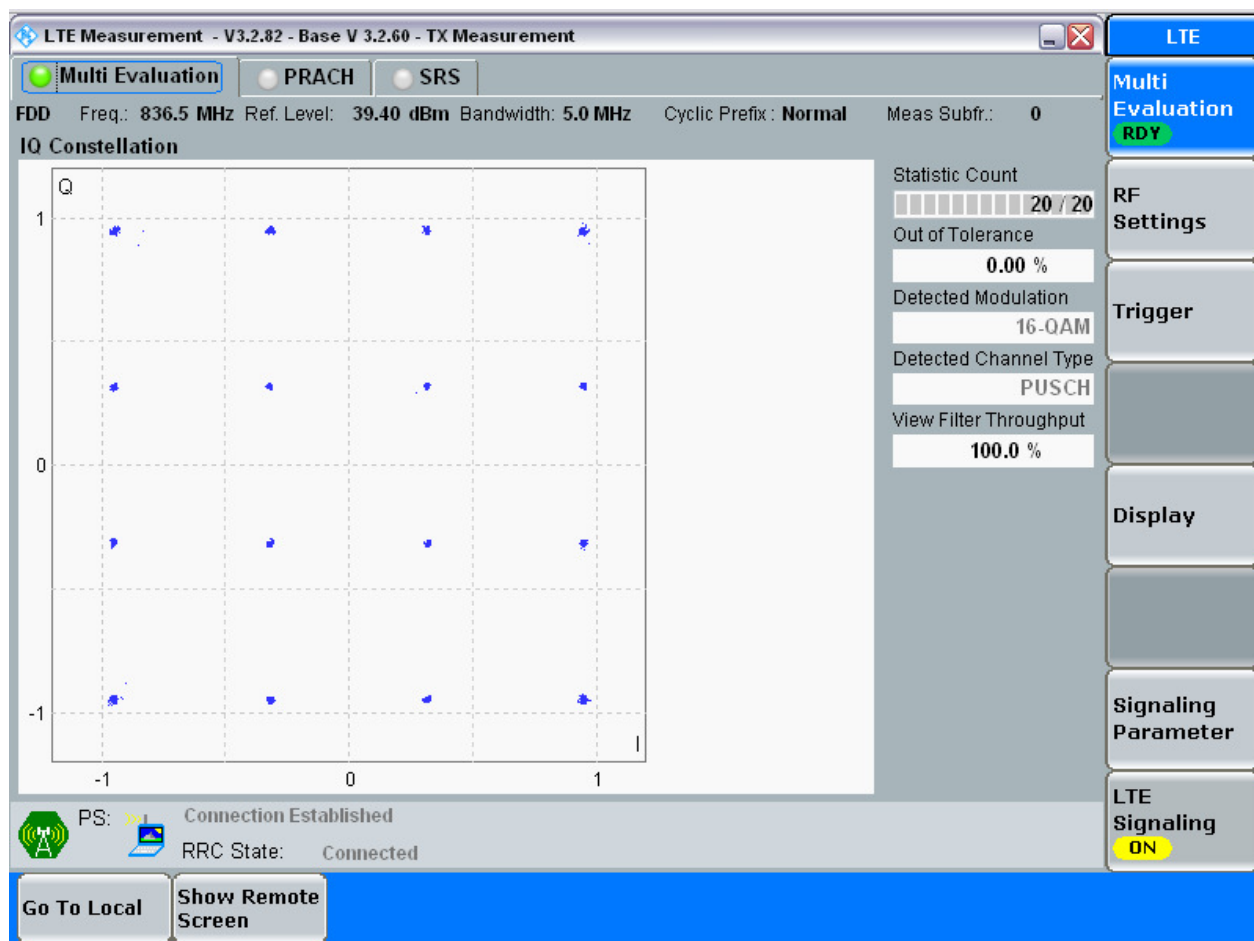
##### 3.1.1.2.2.1.1 Test RB = RB15#0



### 3.1.1.2.3 Test Bandwidth = 5

#### 3.1.1.2.3.1 Test Channel = MCH

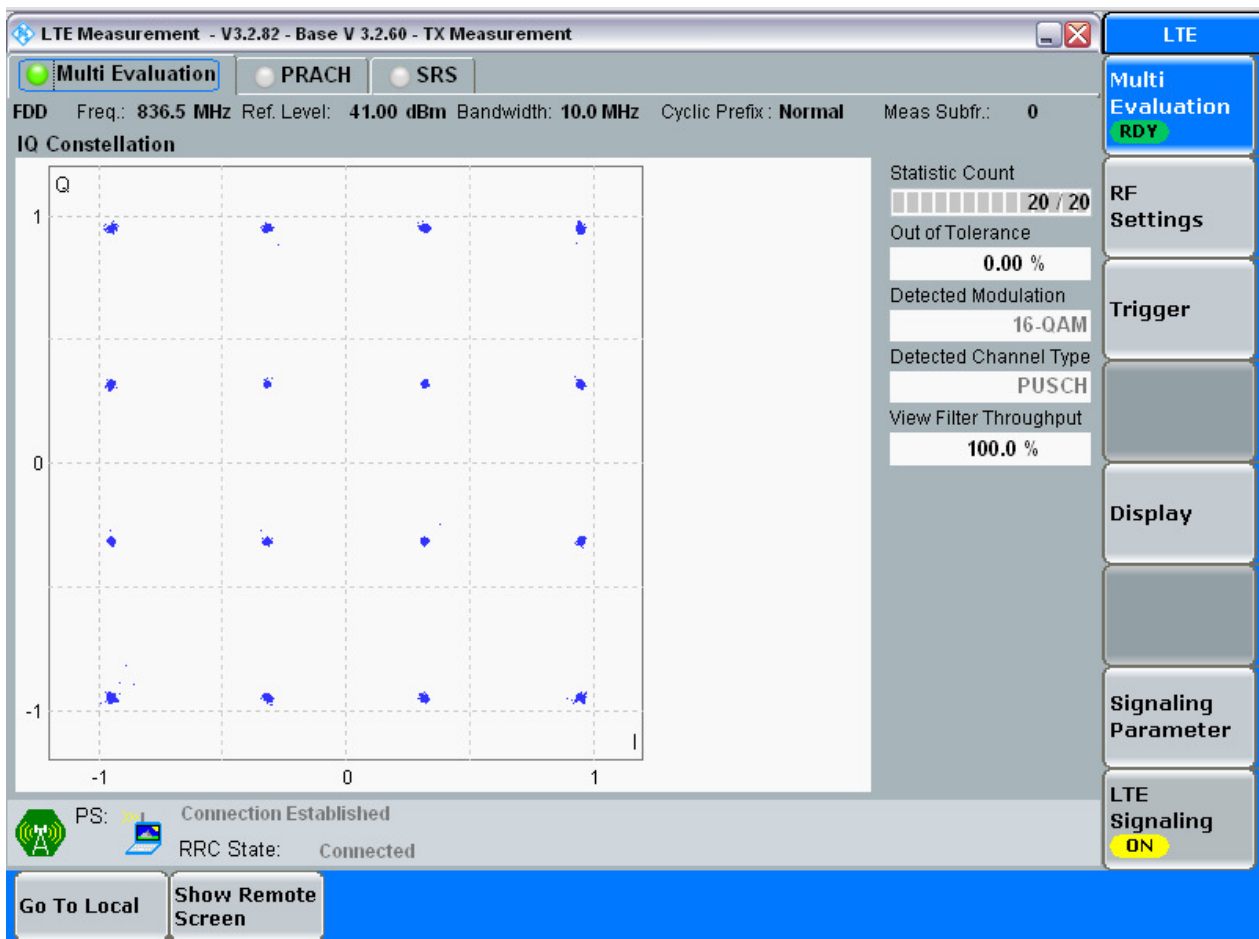
##### 3.1.1.2.3.1.1 Test RB = RB25#0



### 3.1.1.2.4 Test Bandwidth = 10

#### 3.1.1.2.4.1 Test Channel = MCH

##### 3.1.1.2.4.1.1 Test RB = RB50#0



## 4Appendix\_D: Bandwidth

### Part I - Test Results

| Test Band | Test Mode | Test Bandwidth | Test Channel | Test RB | Occupied Bandwidth [MHz] | Emission Bandwidth [MHz] | Verdict |
|-----------|-----------|----------------|--------------|---------|--------------------------|--------------------------|---------|
| BAND5     | LTE/TM1   | 1.4            | LCH          | RB6#0   | 1.09                     | 1.24                     | Pass    |
|           |           |                | MCH          | RB6#0   | 1.09                     | 1.24                     | Pass    |
|           |           |                | HCH          | RB6#0   | 1.09                     | 1.24                     | Pass    |
|           |           | 3              | LCH          | RB15#0  | 2.70                     | 2.91                     | Pass    |
|           |           |                | MCH          | RB15#0  | 2.70                     | 2.91                     | Pass    |
|           |           |                | HCH          | RB15#0  | 2.70                     | 2.92                     | Pass    |
|           |           | 5              | LCH          | RB25#0  | 4.51                     | 4.91                     | Pass    |
|           |           |                | MCH          | RB25#0  | 4.51                     | 4.92                     | Pass    |
|           |           |                | HCH          | RB25#0  | 4.51                     | 4.89                     | Pass    |
|           |           | 10             | LCH          | RB50#0  | 9.00                     | 9.62                     | Pass    |
|           |           |                | MCH          | RB50#0  | 9.01                     | 9.60                     | Pass    |
|           |           |                | HCH          | RB50#0  | 9.01                     | 9.63                     | Pass    |
|           | LTE/TM2   | 1.4            | LCH          | RB6#0   | 1.09                     | 1.26                     | Pass    |
|           |           |                | MCH          | RB6#0   | 1.09                     | 1.26                     | Pass    |
|           |           |                | HCH          | RB6#0   | 1.09                     | 1.25                     | Pass    |
|           |           | 3              | LCH          | RB15#0  | 2.70                     | 2.92                     | Pass    |
|           |           |                | MCH          | RB15#0  | 2.70                     | 2.91                     | Pass    |
|           |           |                | HCH          | RB15#0  | 2.70                     | 2.92                     | Pass    |
|           |           | 5              | LCH          | RB25#0  | 4.51                     | 4.87                     | Pass    |
|           |           |                | MCH          | RB25#0  | 4.51                     | 4.88                     | Pass    |
|           |           |                | HCH          | RB25#0  | 4.51                     | 4.89                     | Pass    |
|           |           | 10             | LCH          | RB50#0  | 8.98                     | 9.60                     | Pass    |
|           |           |                | MCH          | RB50#0  | 9.00                     | 9.61                     | Pass    |
|           |           |                | HCH          | RB50#0  | 8.99                     | 9.63                     | Pass    |



## Part II - Test Plots

### 4.1 For LTE

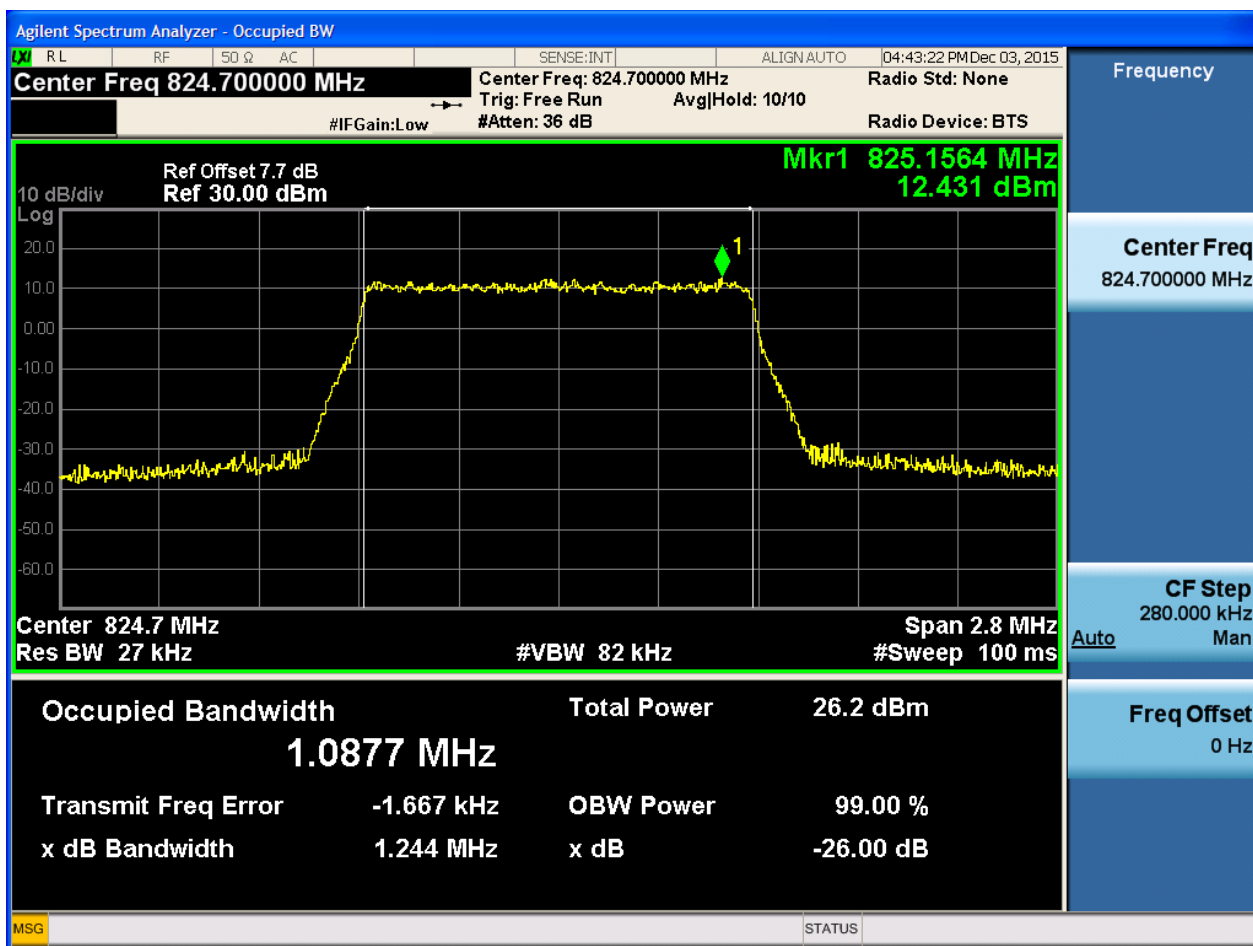
#### 4.1.1 Test Band = BAND5

##### 4.1.1.1 Test Mode = LTE/TM1

##### 4.1.1.1.1 Test Bandwidth = 1.4

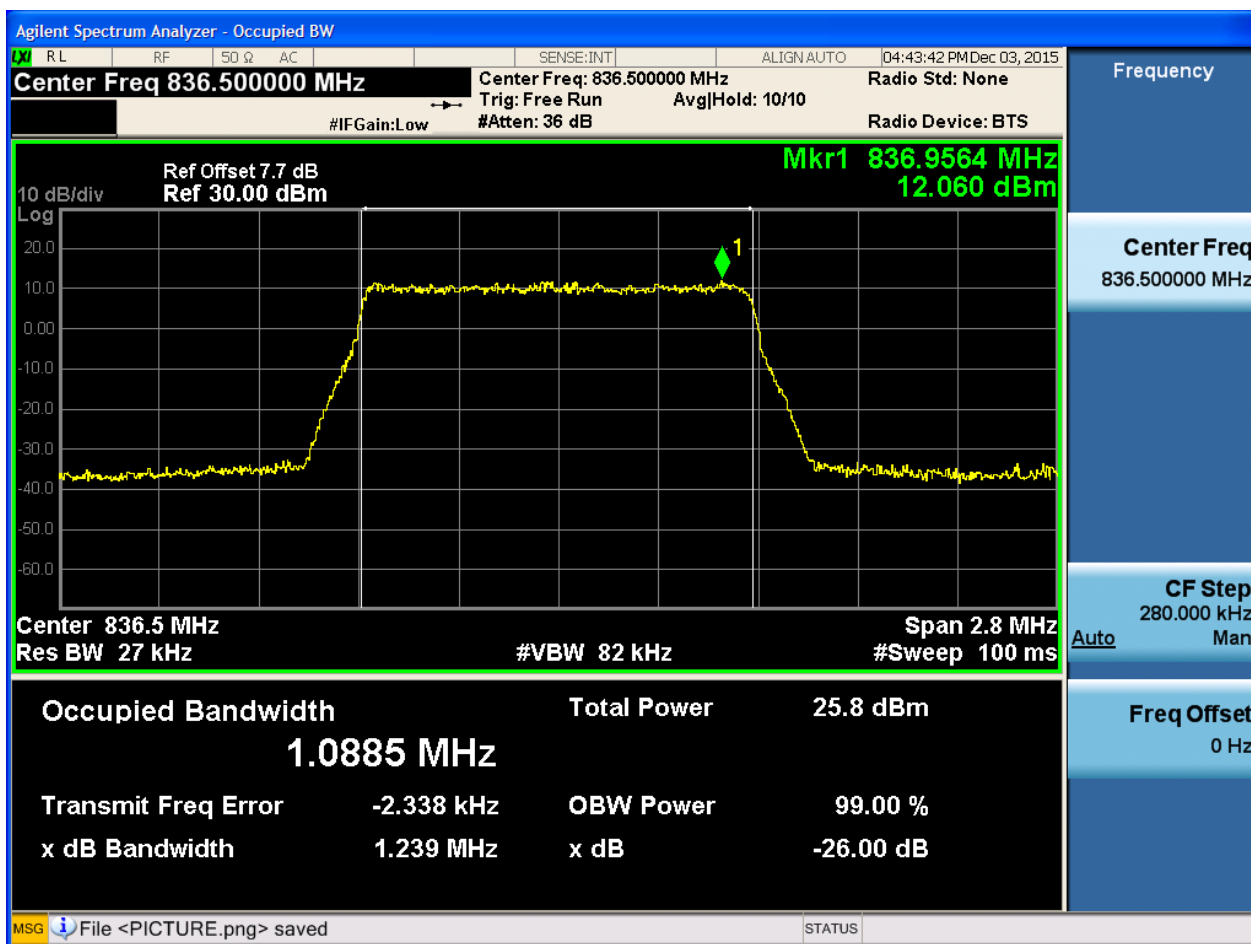
##### 4.1.1.1.1.1 Test Channel = LCH

##### 4.1.1.1.1.1.1 Test RB = RB6#0



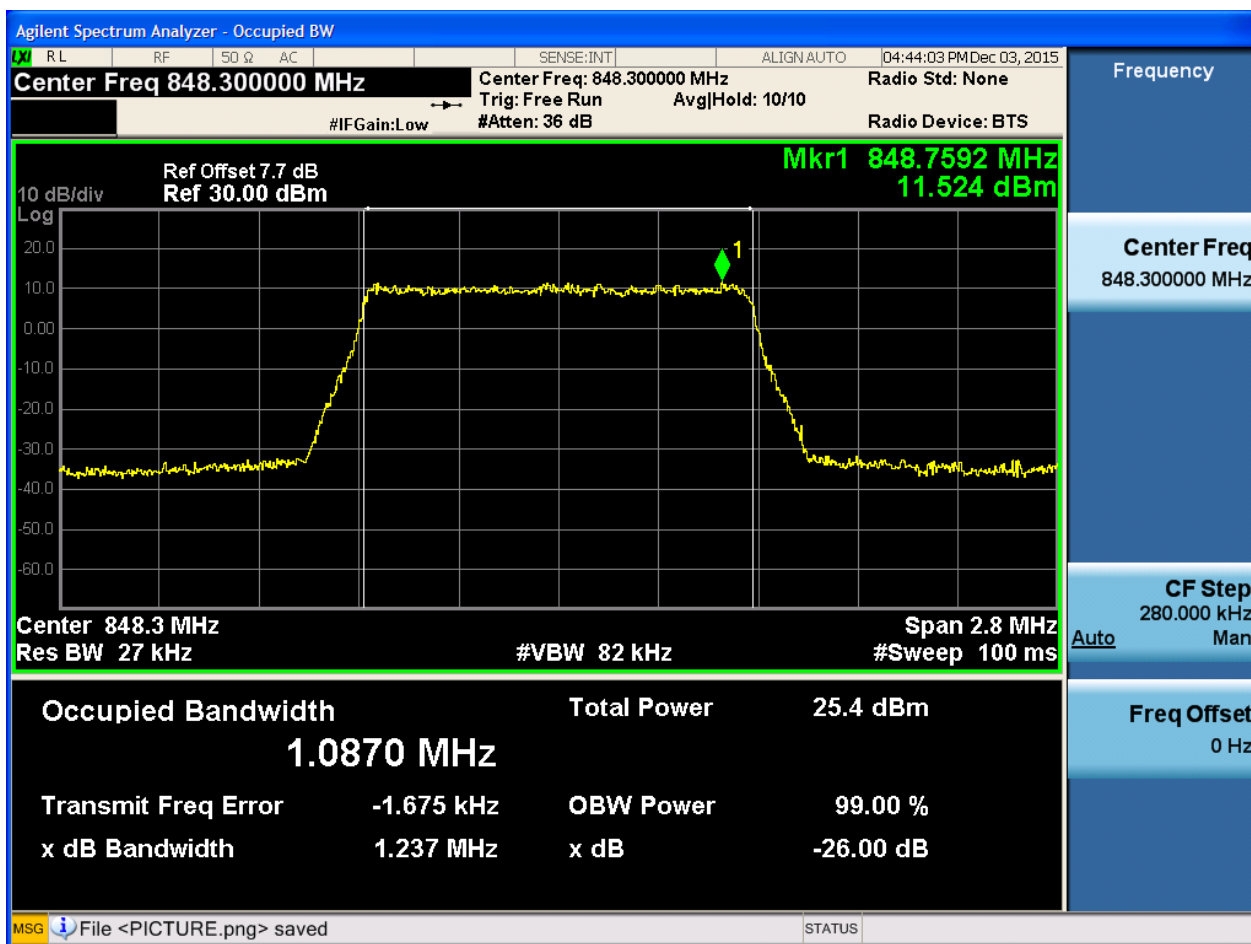
#### 4.1.1.1.2 Test Channel = MCH

##### 4.1.1.1.2.1 Test RB = RB6#0



#### 4.1.1.1.1.3 Test Channel = HCH

##### 4.1.1.1.1.3.1 Test RB = RB6#0

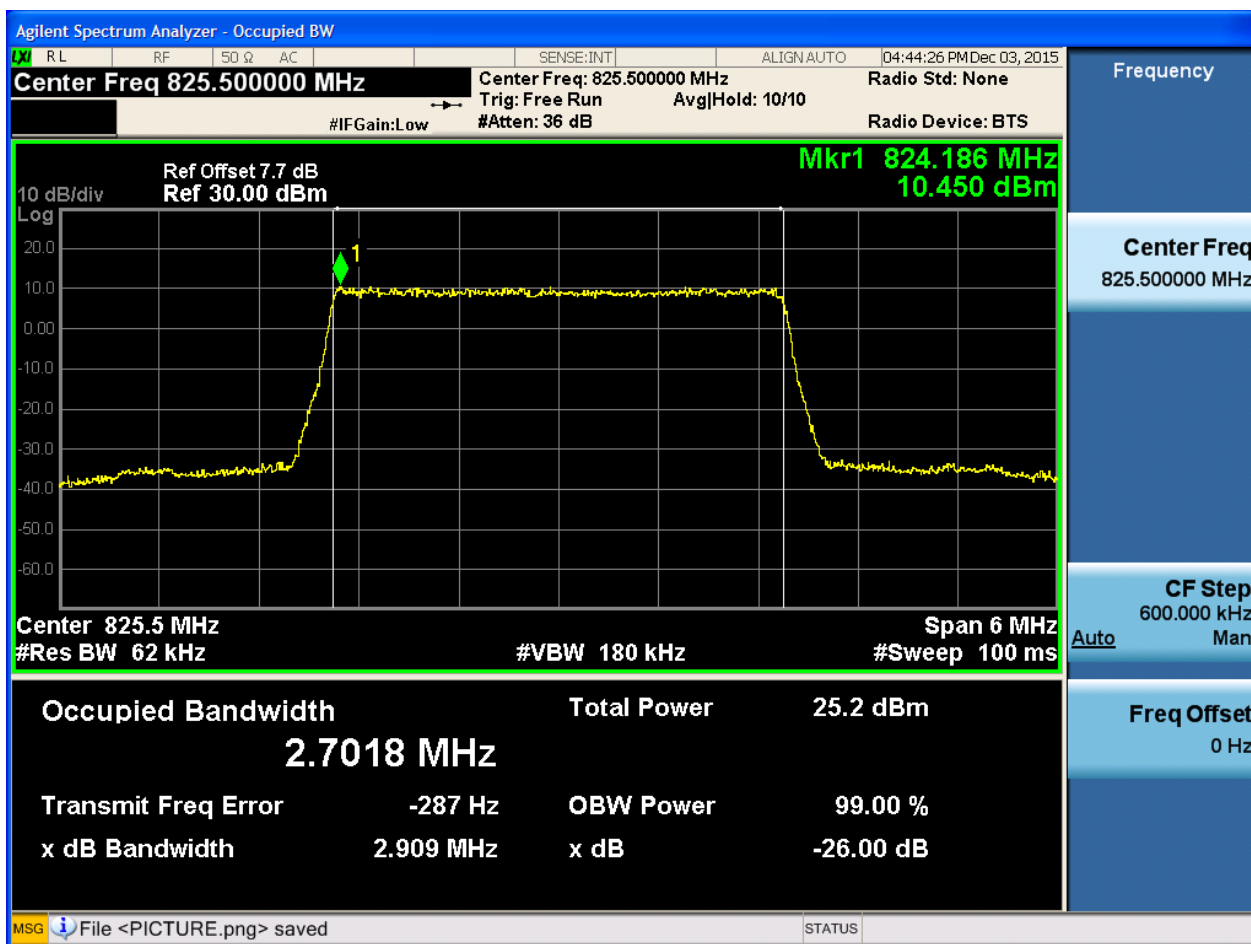




## 4.1.1.1.2 Test Bandwidth = 3

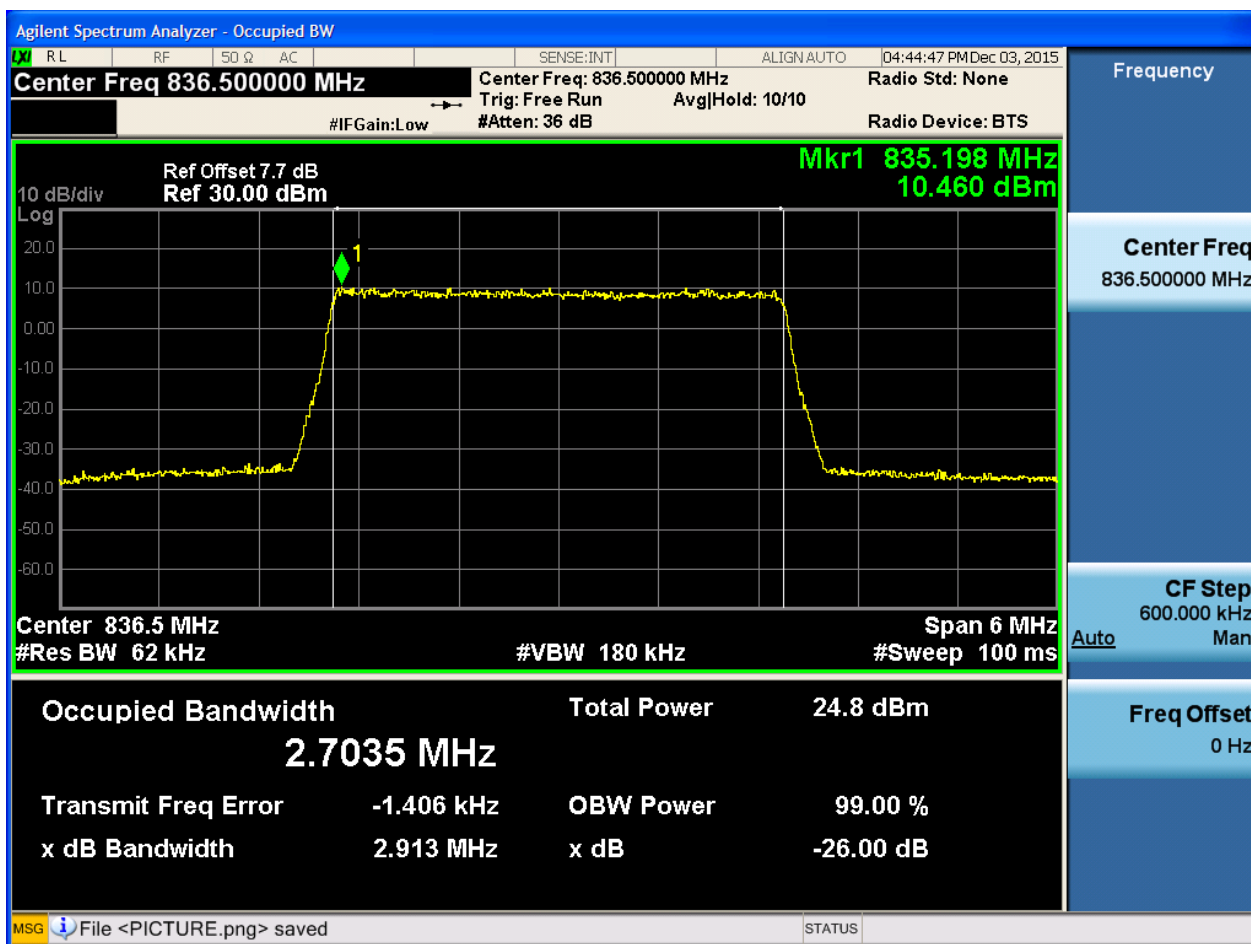
## 4.1.1.1.2.1 Test Channel = LCH

## 4.1.1.1.2.1.1 Test RB = RB15#0



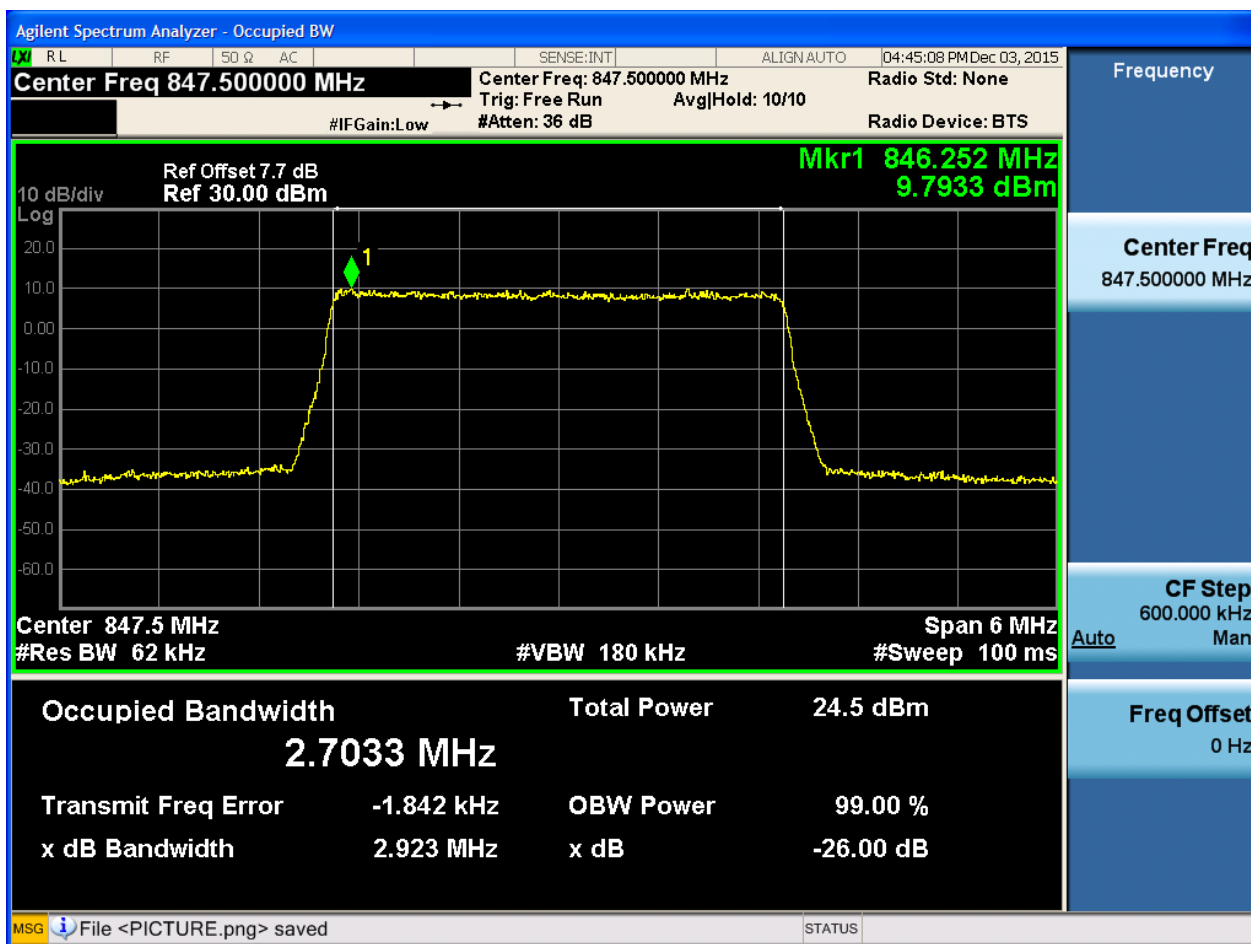
#### 4.1.1.1.2.2 Test Channel = MCH

##### 4.1.1.1.2.2.1 Test RB = RB15#0



#### 4.1.1.1.2.3 Test Channel = HCH

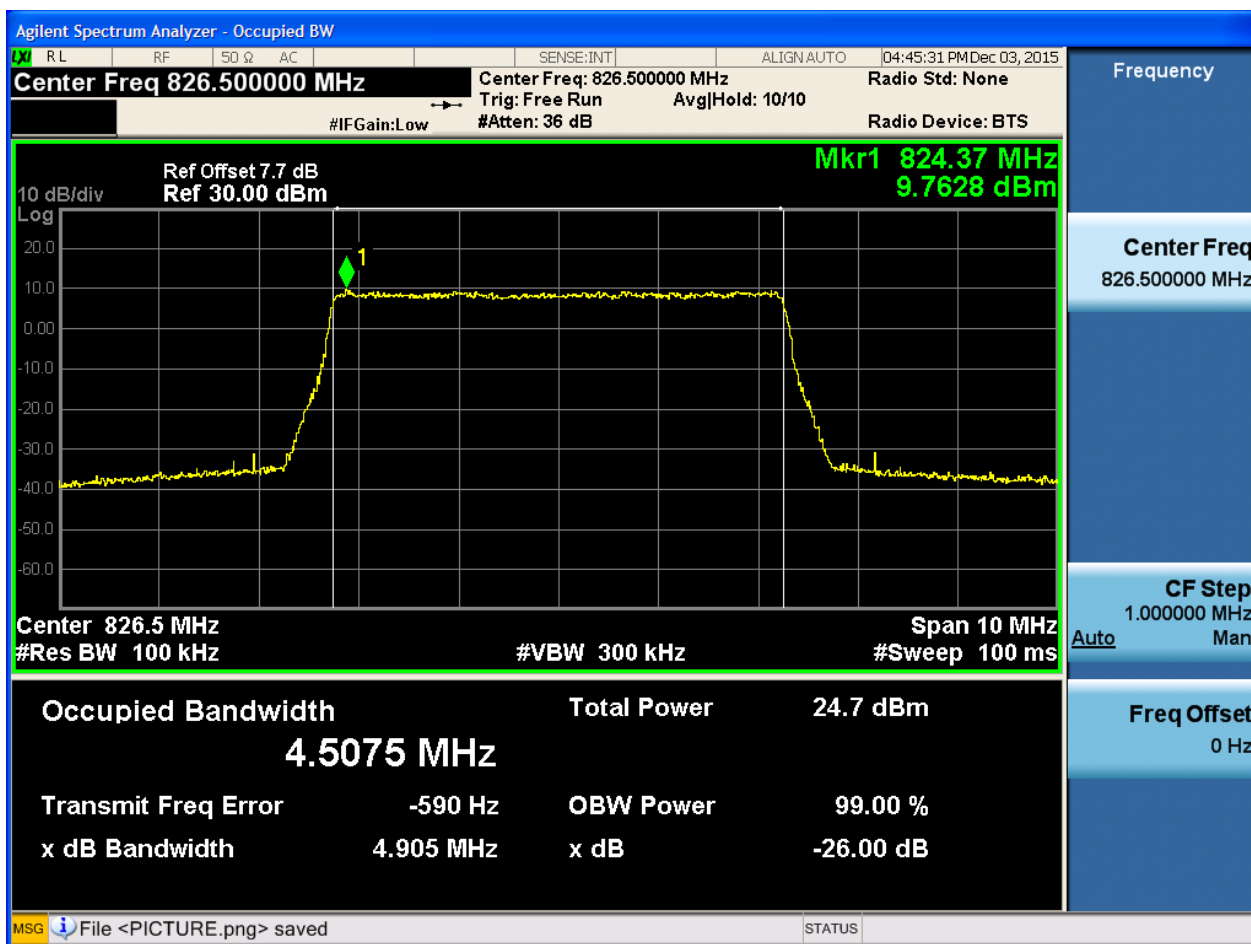
##### 4.1.1.1.2.3.1 Test RB = RB15#0



#### 4.1.1.1.3 Test Bandwidth = 5

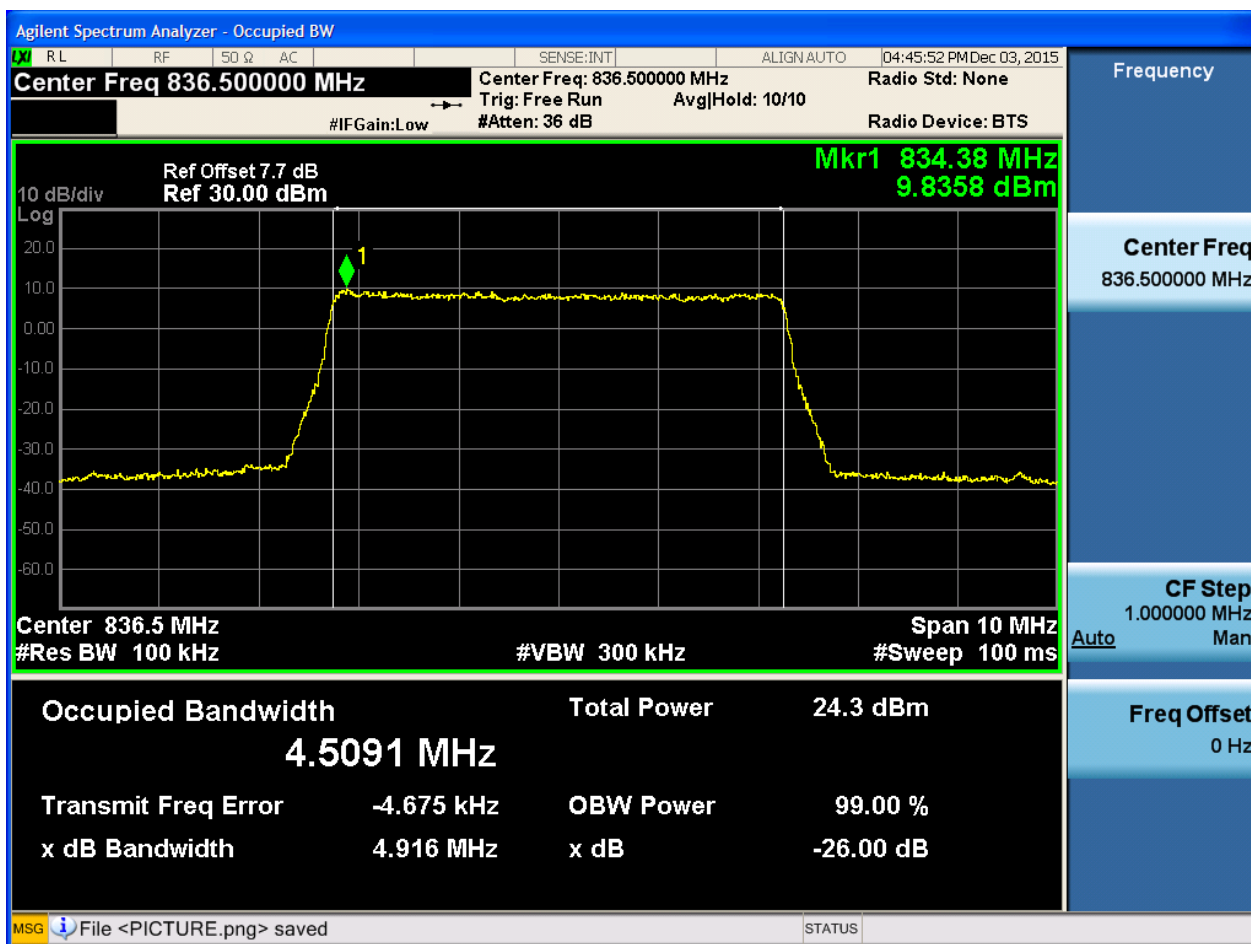
##### 4.1.1.1.3.1 Test Channel = LCH

##### 4.1.1.1.3.1.1 Test RB = RB25#0



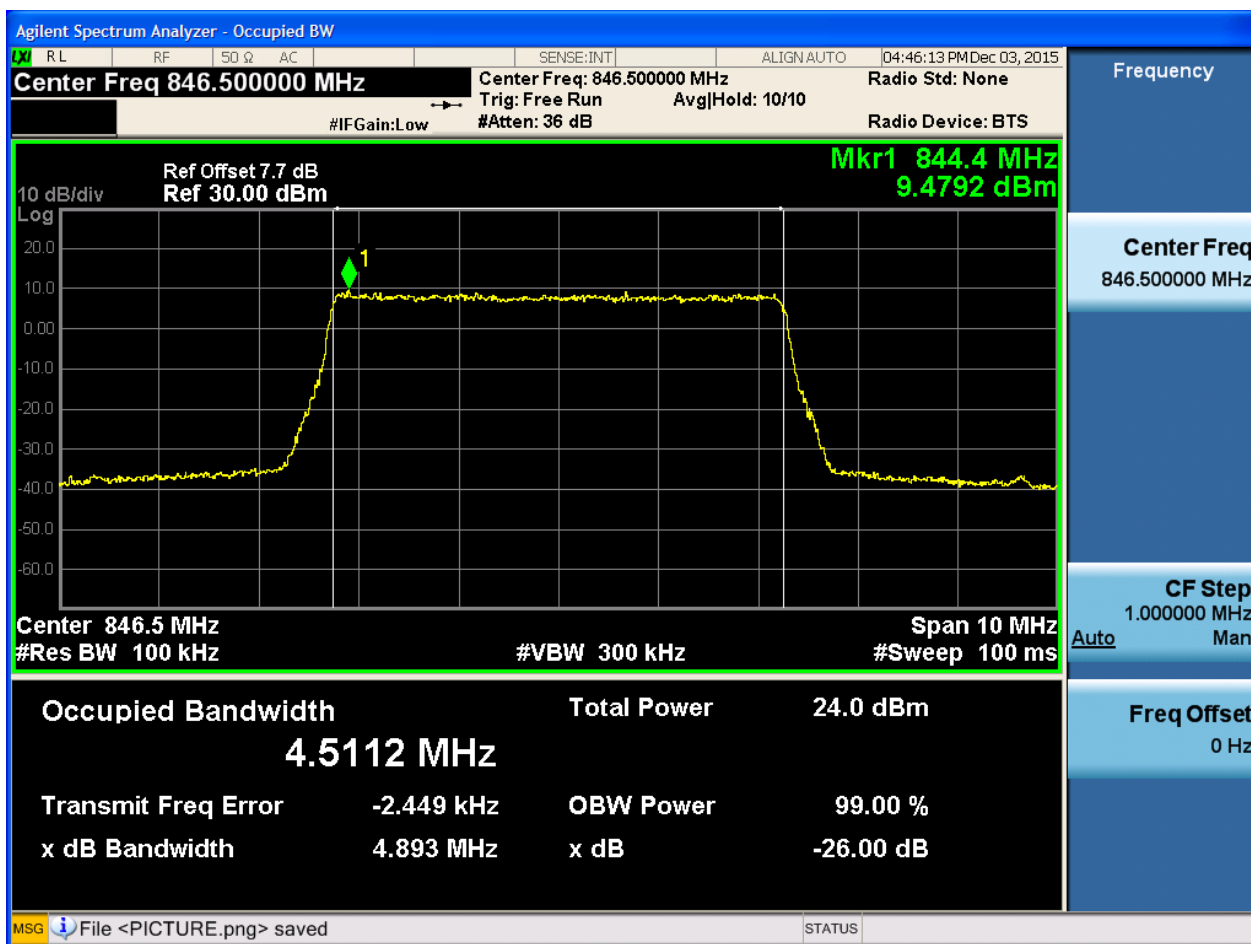
#### 4.1.1.1.3.2 Test Channel = MCH

##### 4.1.1.1.3.2.1 Test RB = RB25#0



#### 4.1.1.1.3.3 Test Channel = HCH

##### 4.1.1.1.3.3.1 Test RB = RB25#0

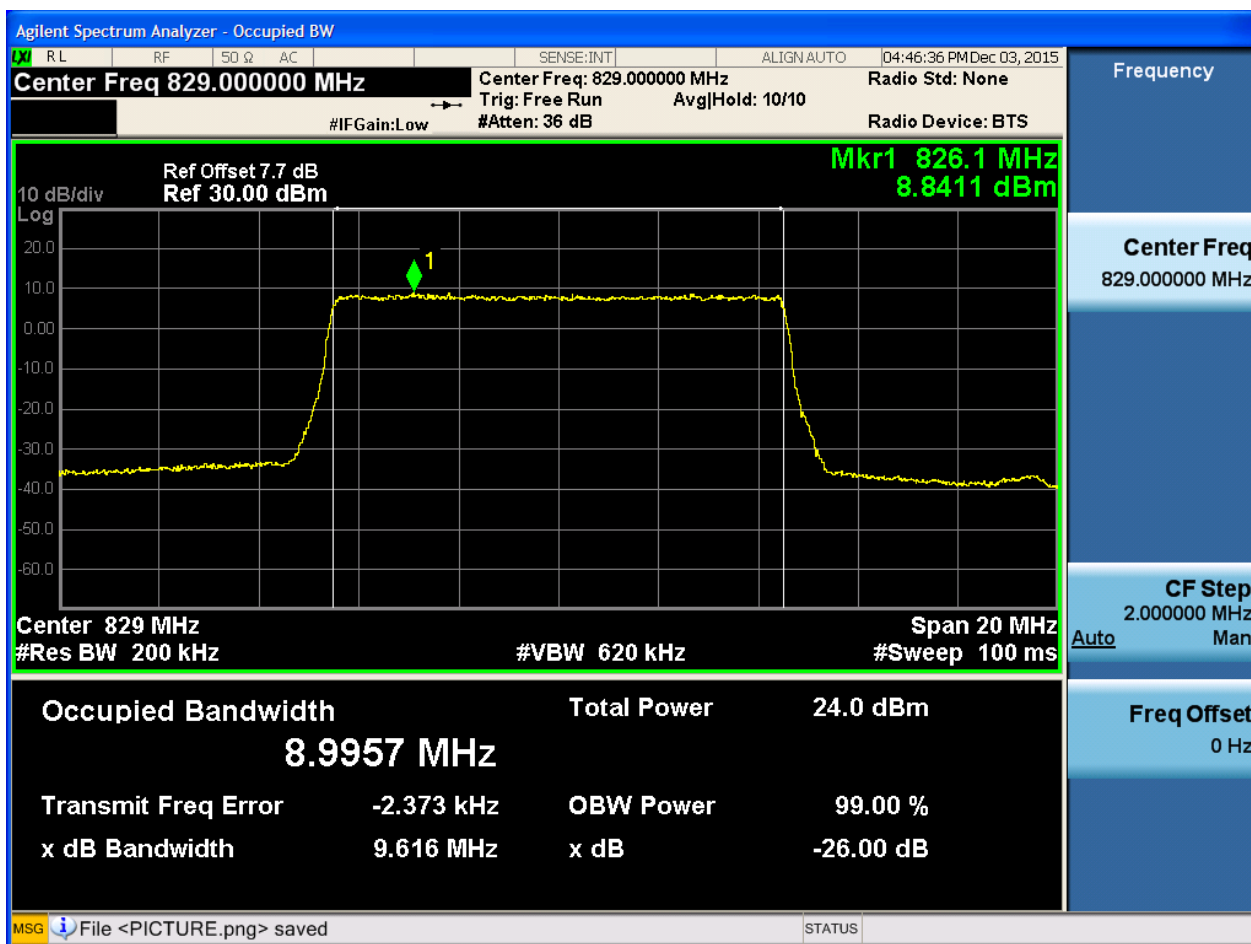




## 4.1.1.1.4 Test Bandwidth = 10

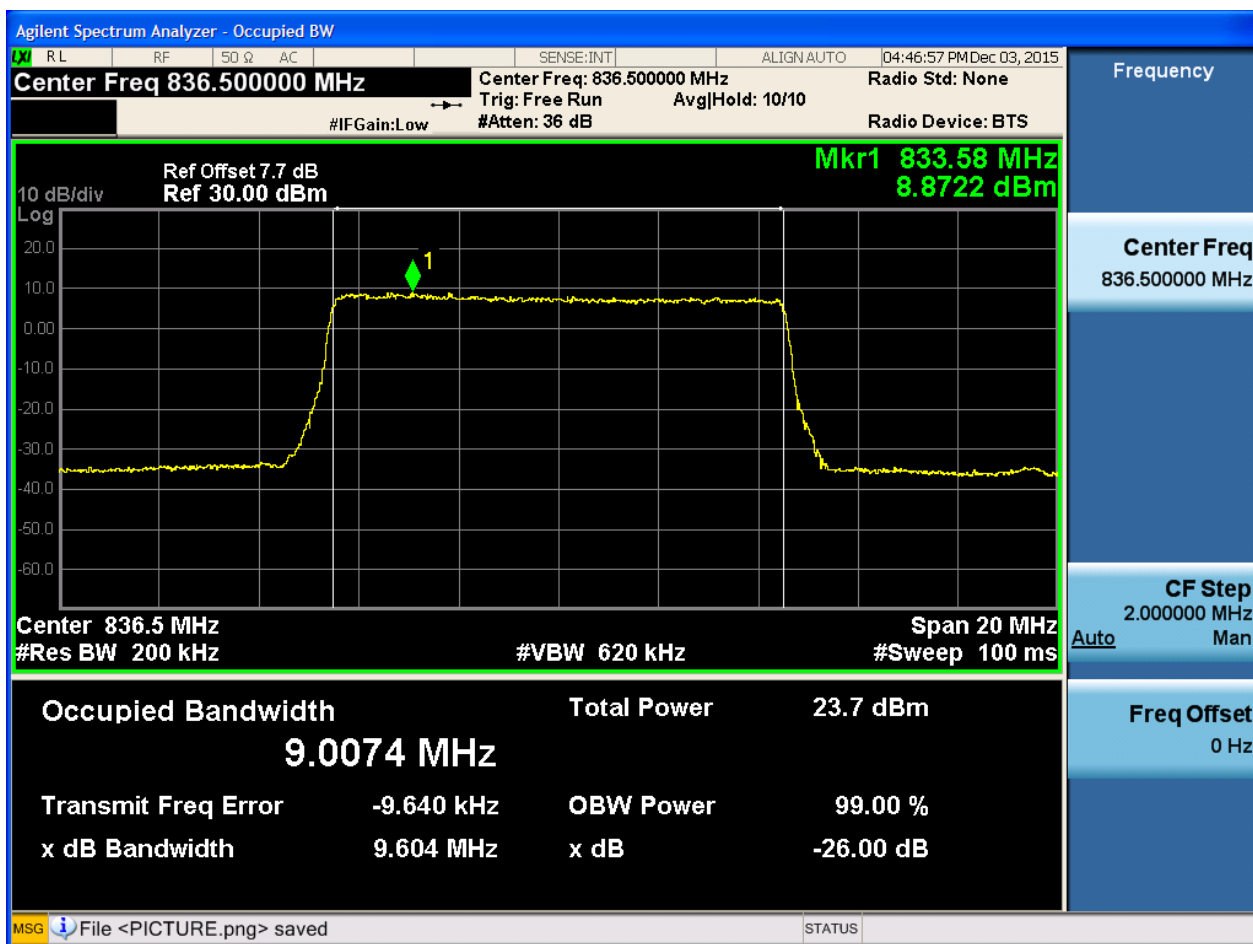
## 4.1.1.1.4.1 Test Channel = LCH

## 4.1.1.1.4.1.1 Test RB = RB50#0



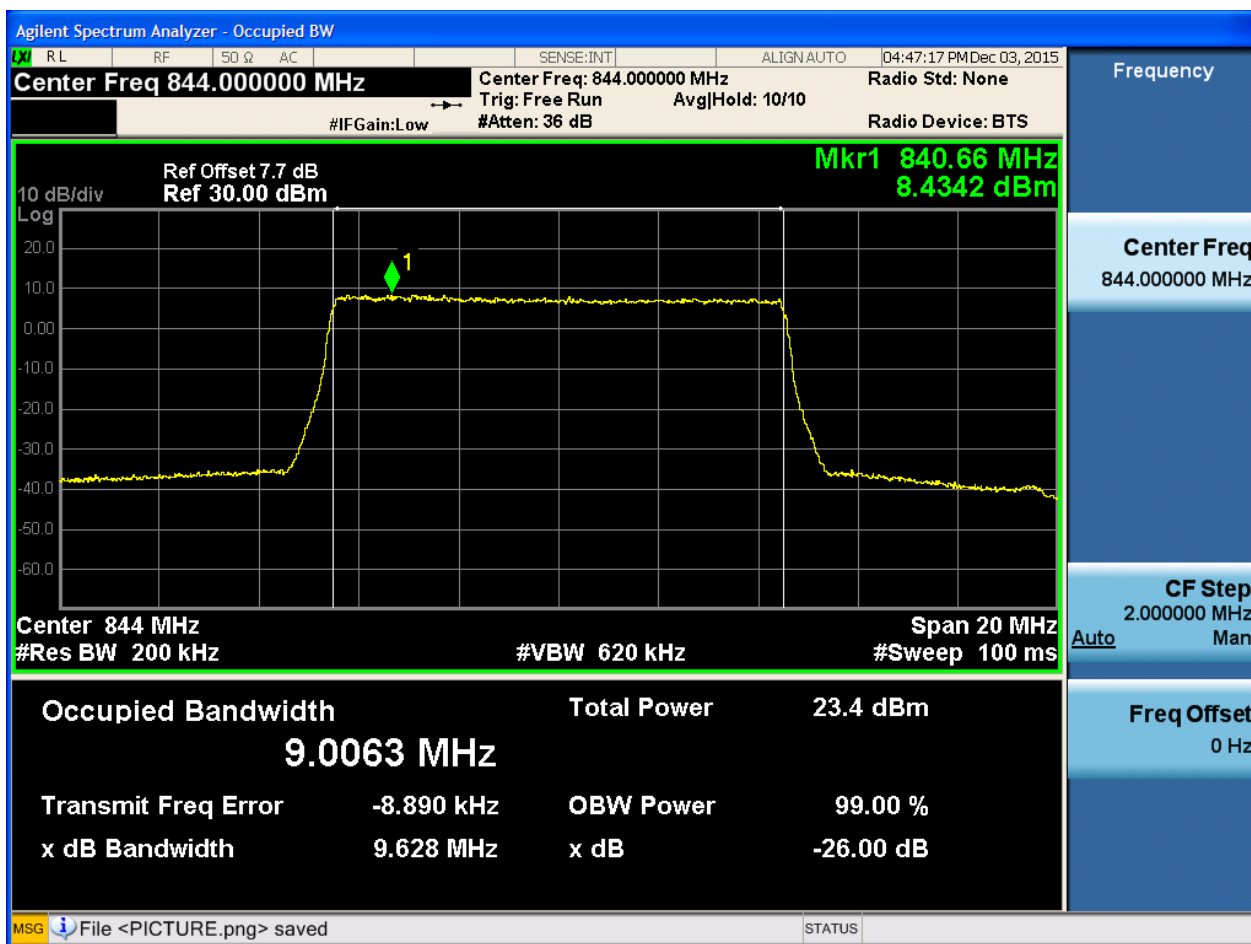
#### 4.1.1.1.4.2 Test Channel = MCH

##### 4.1.1.1.4.2.1 Test RB = RB50#0



#### 4.1.1.1.4.3 Test Channel = HCH

##### 4.1.1.1.4.3.1 Test RB = RB50#0



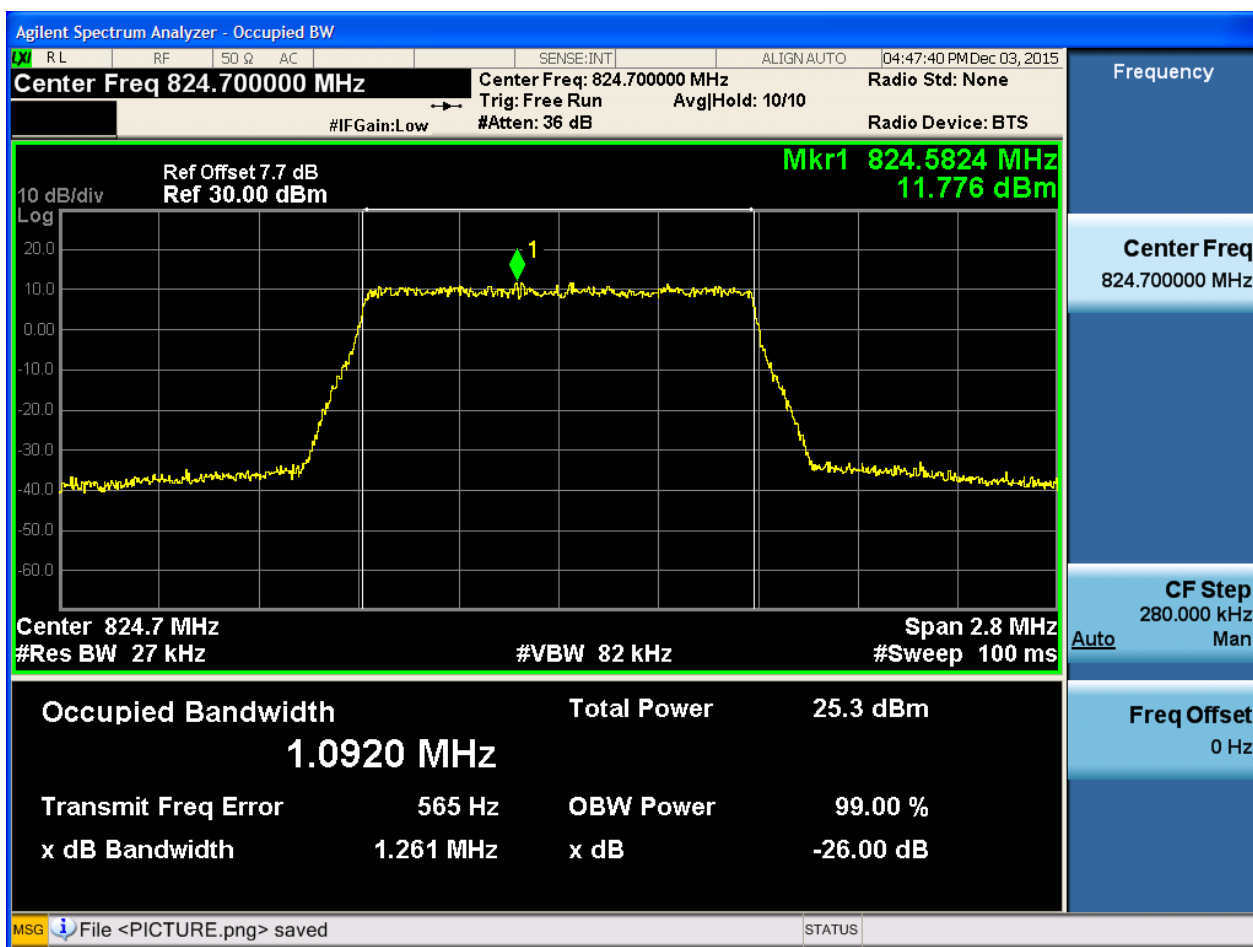


## 4.1.1.2 Test Mode = LTE/TM2

## 4.1.1.2.1 Test Bandwidth = 1.4

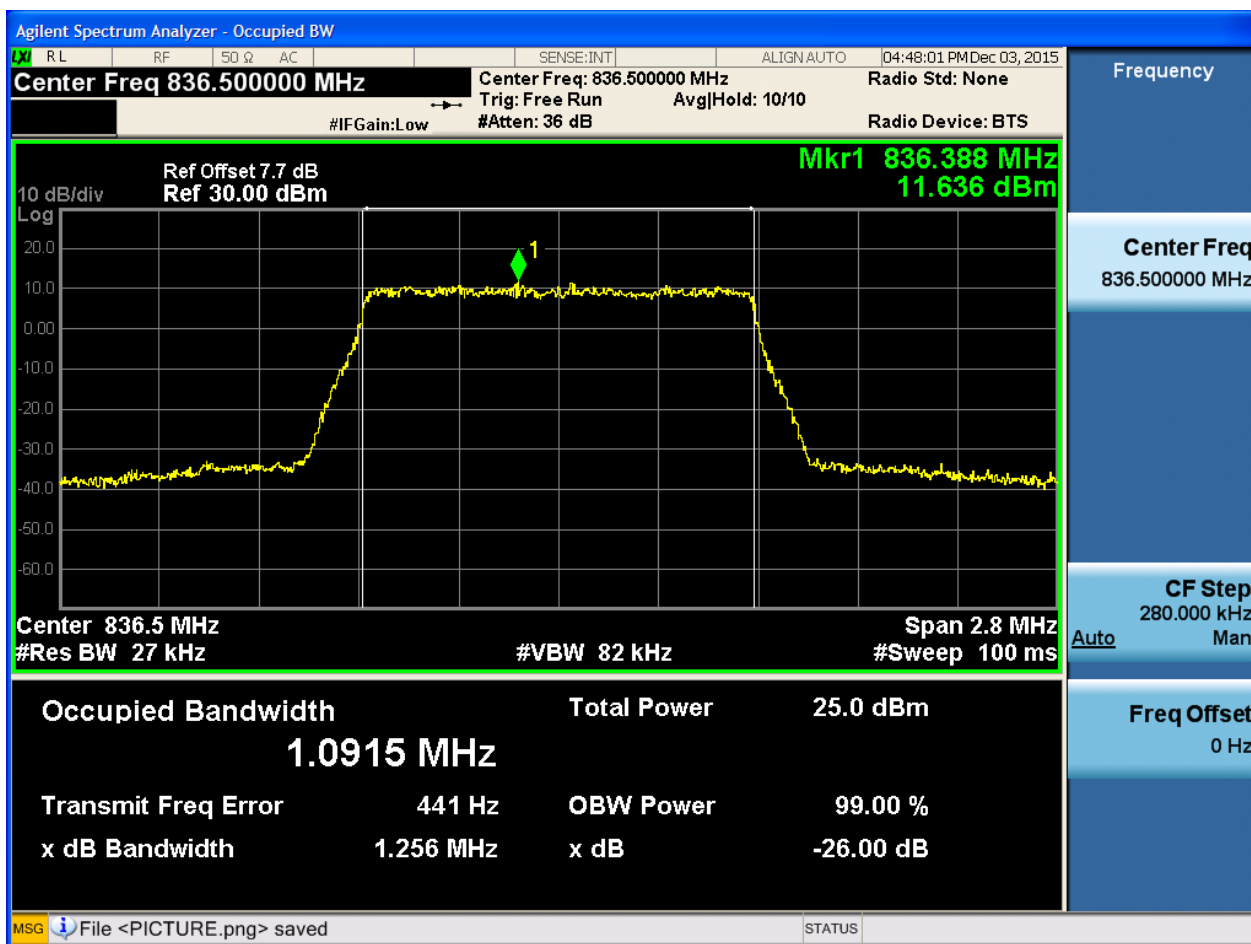
## 4.1.1.2.1.1 Test Channel = LCH

## 4.1.1.2.1.1.1 Test RB = RB6#0



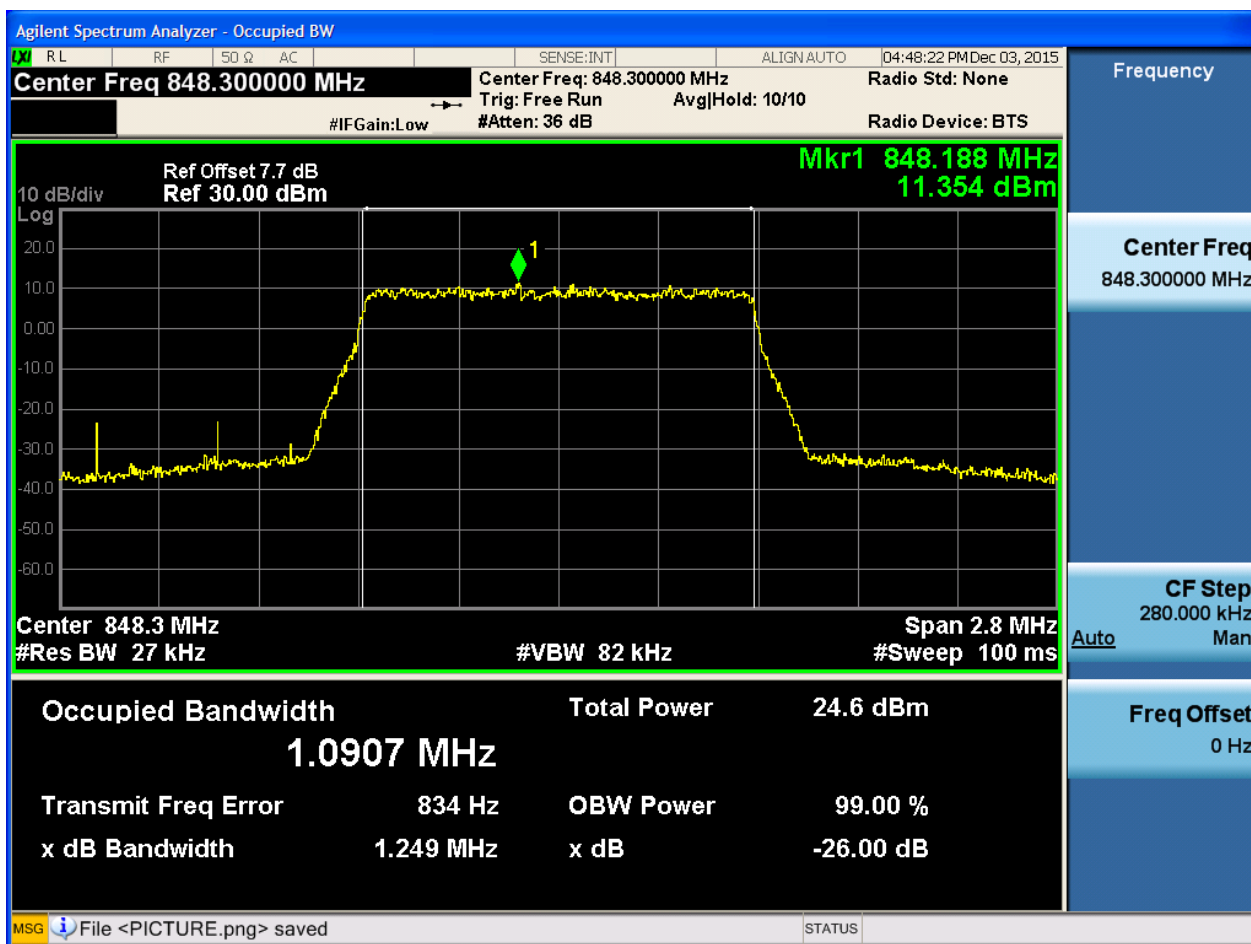
#### 4.1.1.2.1.2 Test Channel = MCH

##### 4.1.1.2.1.2.1 Test RB = RB6#0



#### 4.1.1.2.1.3 Test Channel = HCH

##### 4.1.1.2.1.3.1 Test RB = RB6#0

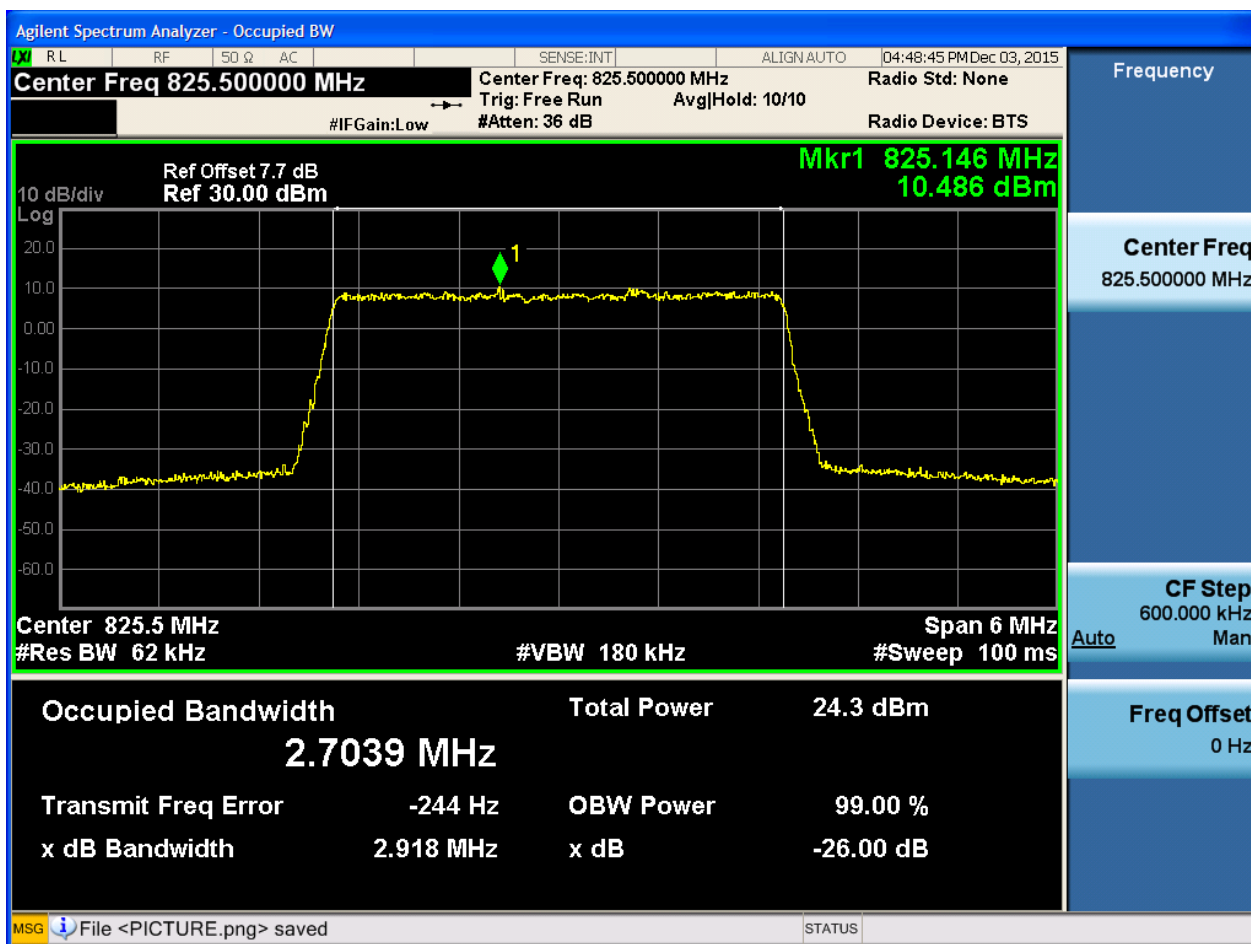




## 4.1.1.2.2 Test Bandwidth = 3

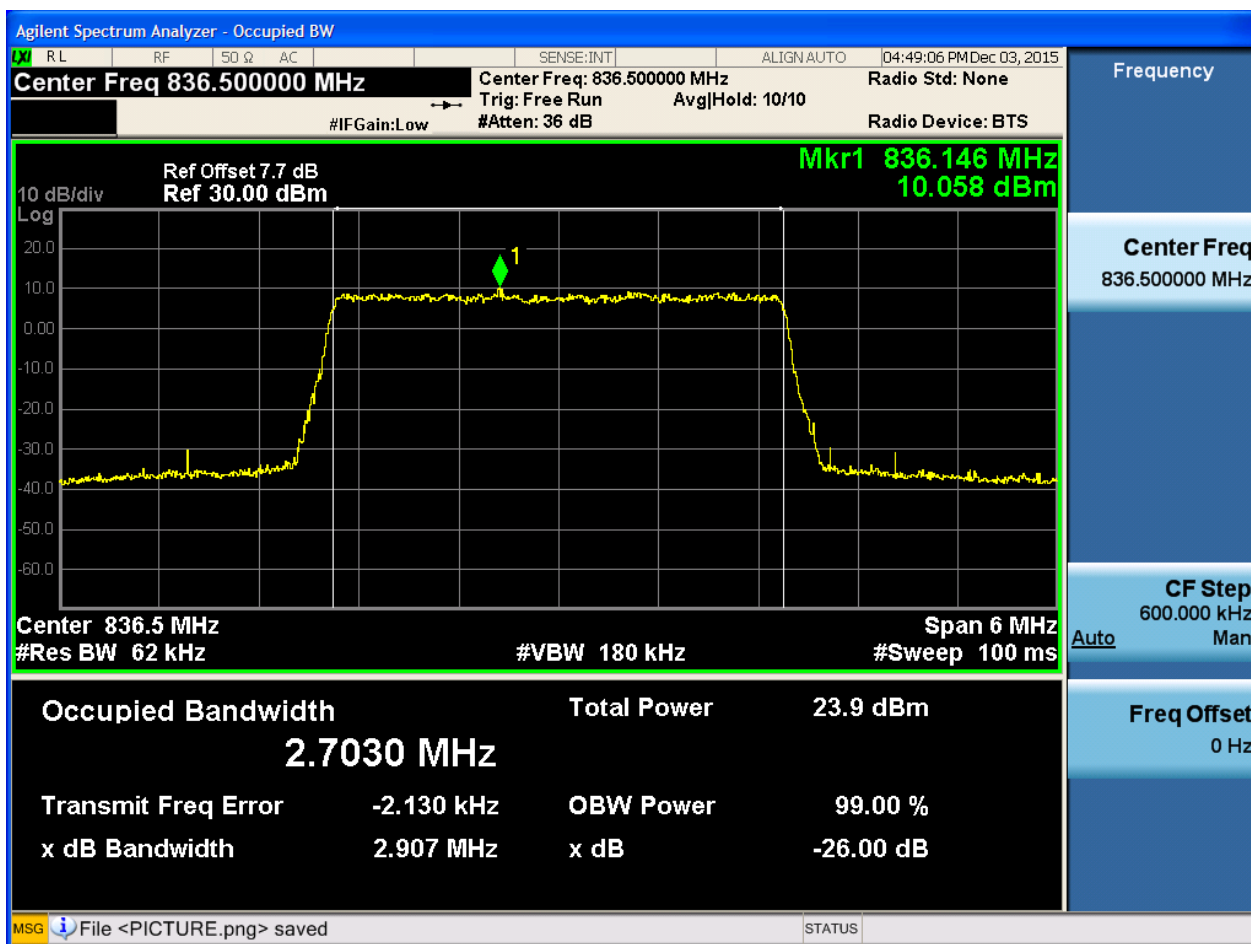
## 4.1.1.2.2.1 Test Channel = LCH

## 4.1.1.2.2.1.1 Test RB = RB15#0



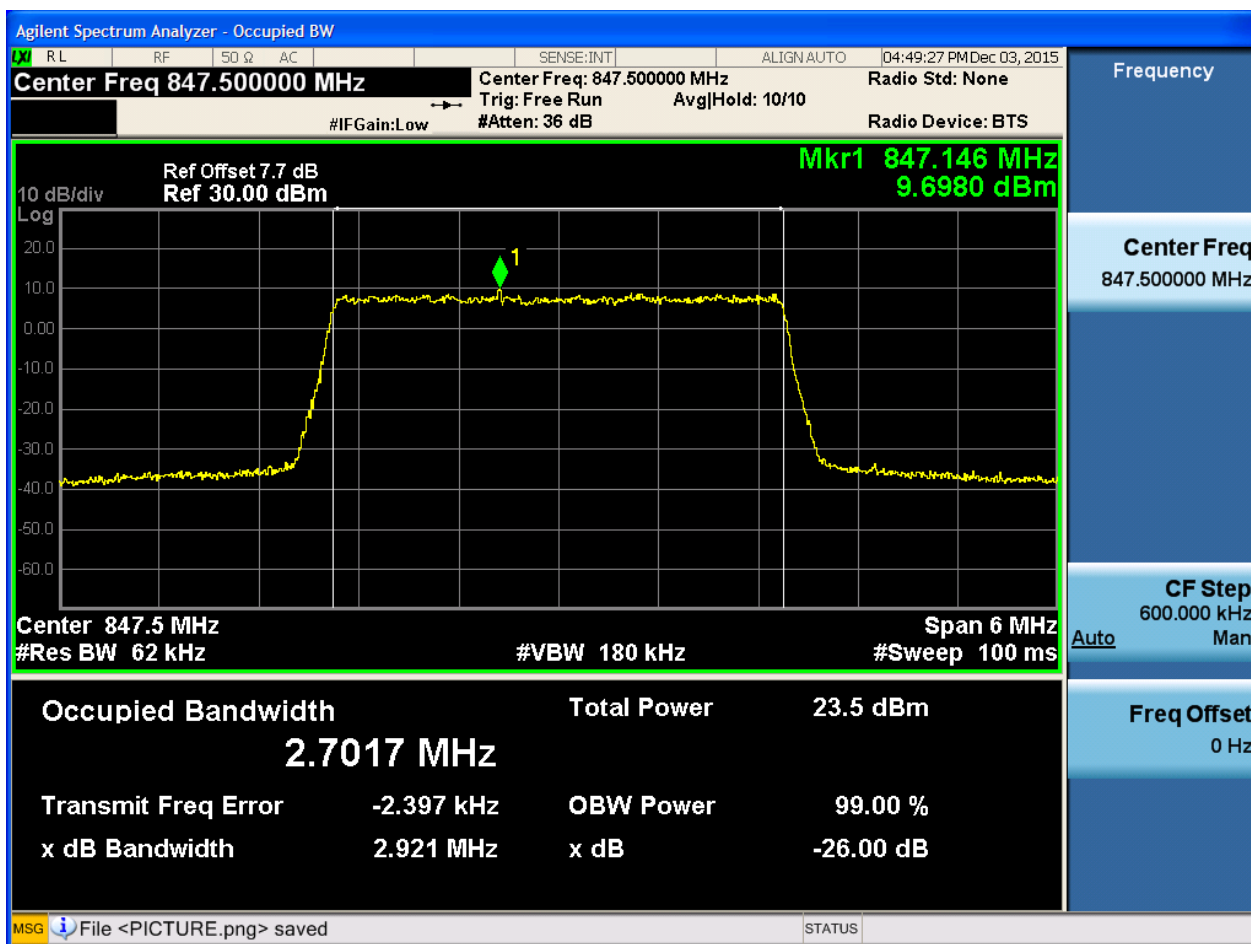
#### 4.1.1.2.2.2 Test Channel = MCH

##### 4.1.1.2.2.2.1 Test RB = RB15#0



#### 4.1.1.2.2.3 Test Channel = HCH

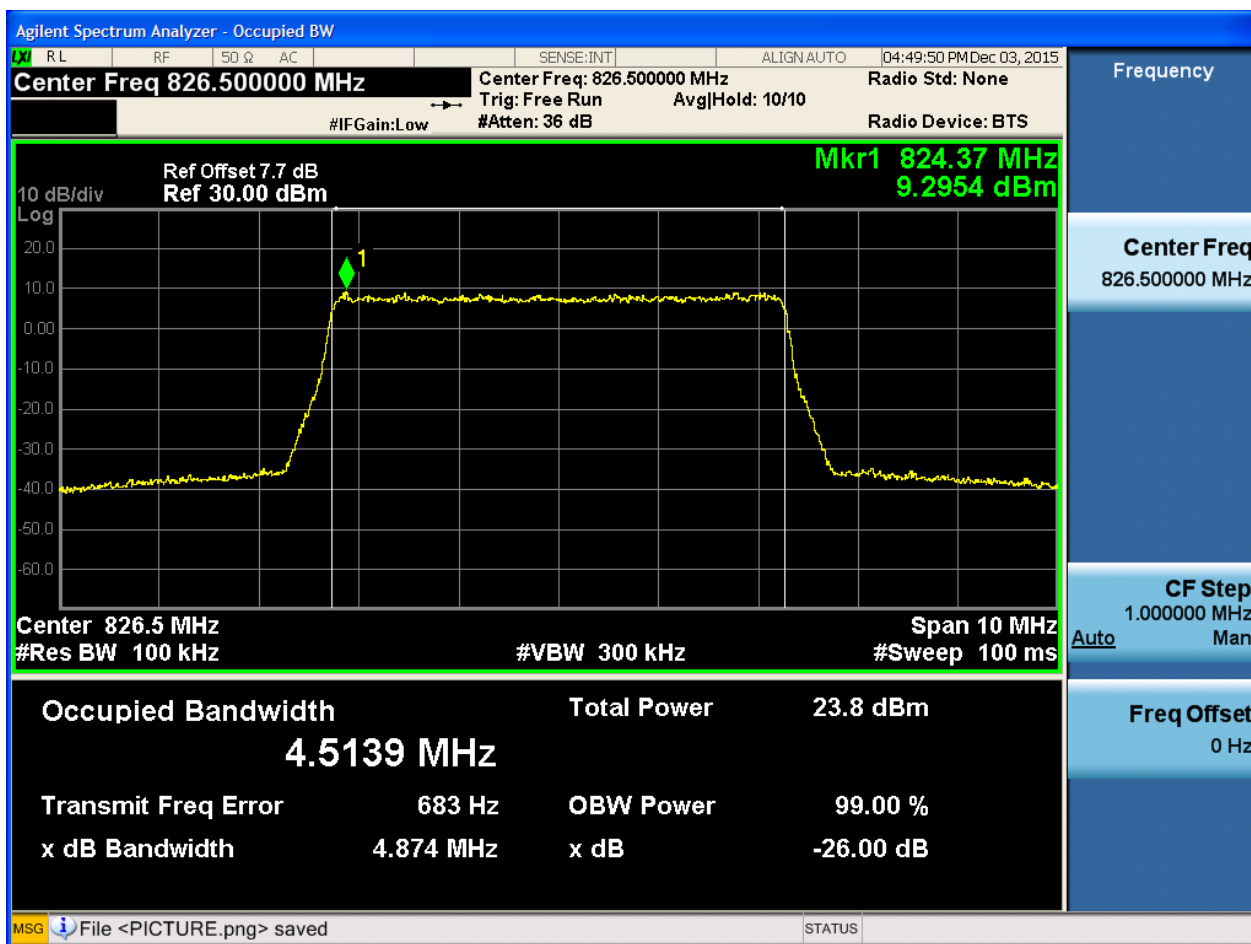
##### 4.1.1.2.2.3.1 Test RB = RB15#0



#### 4.1.1.2.3 Test Bandwidth = 5

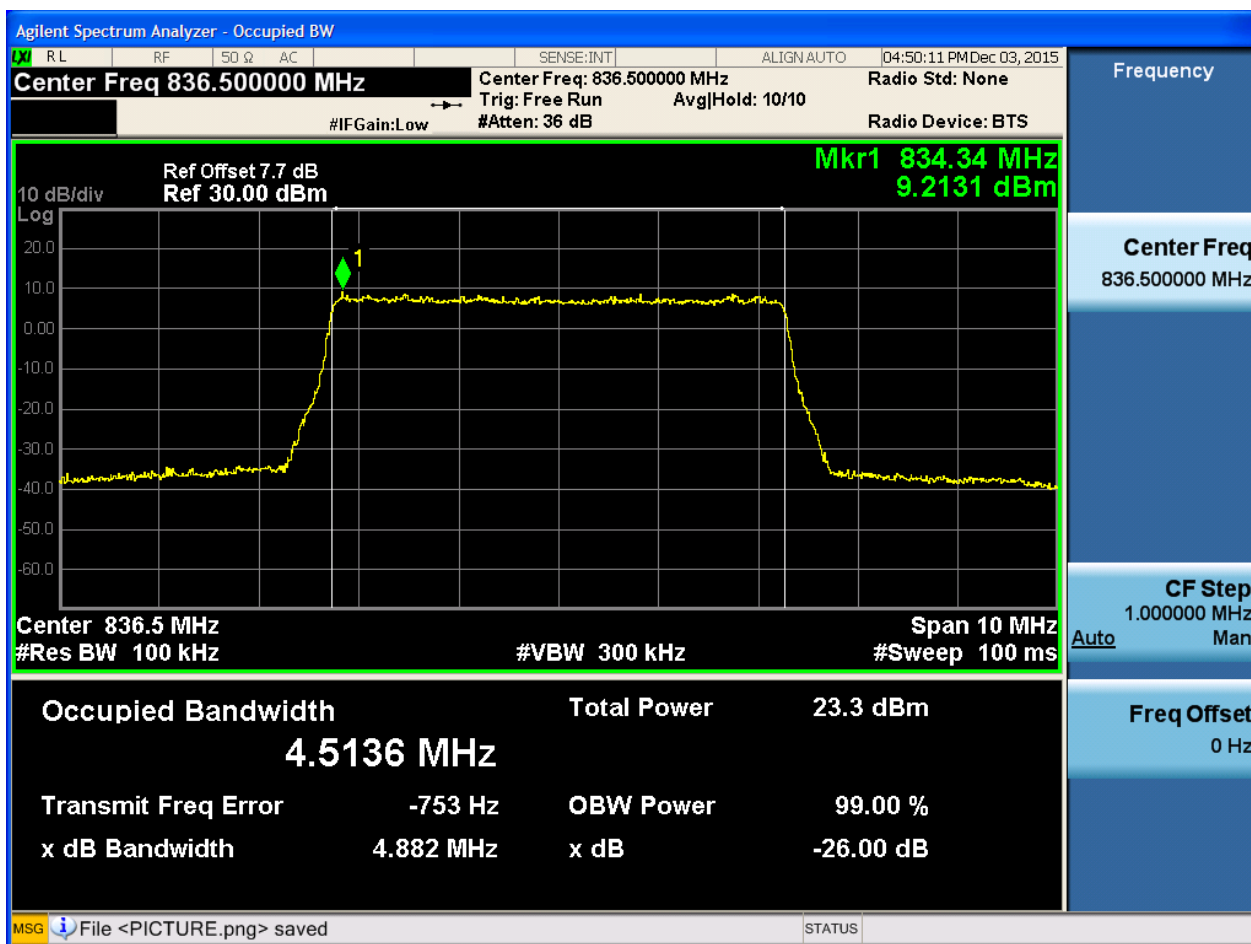
##### 4.1.1.2.3.1 Test Channel = LCH

##### 4.1.1.2.3.1.1 Test RB = RB25#0



#### 4.1.1.2.3.2 Test Channel = MCH

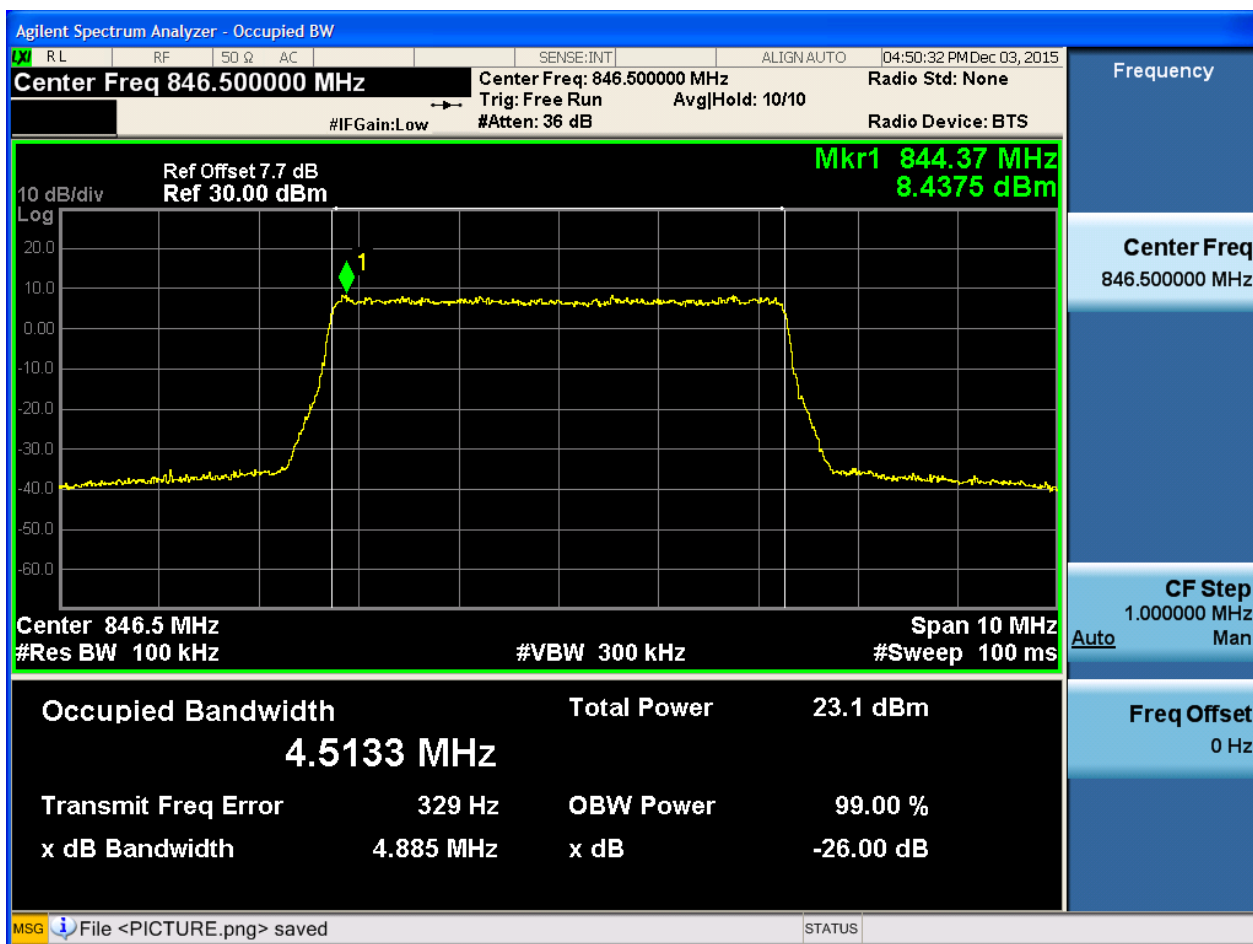
##### 4.1.1.2.3.2.1 Test RB = RB25#0





## 4.1.1.2.3.3 Test Channel = HCH

## 4.1.1.2.3.3.1 Test RB = RB25#0

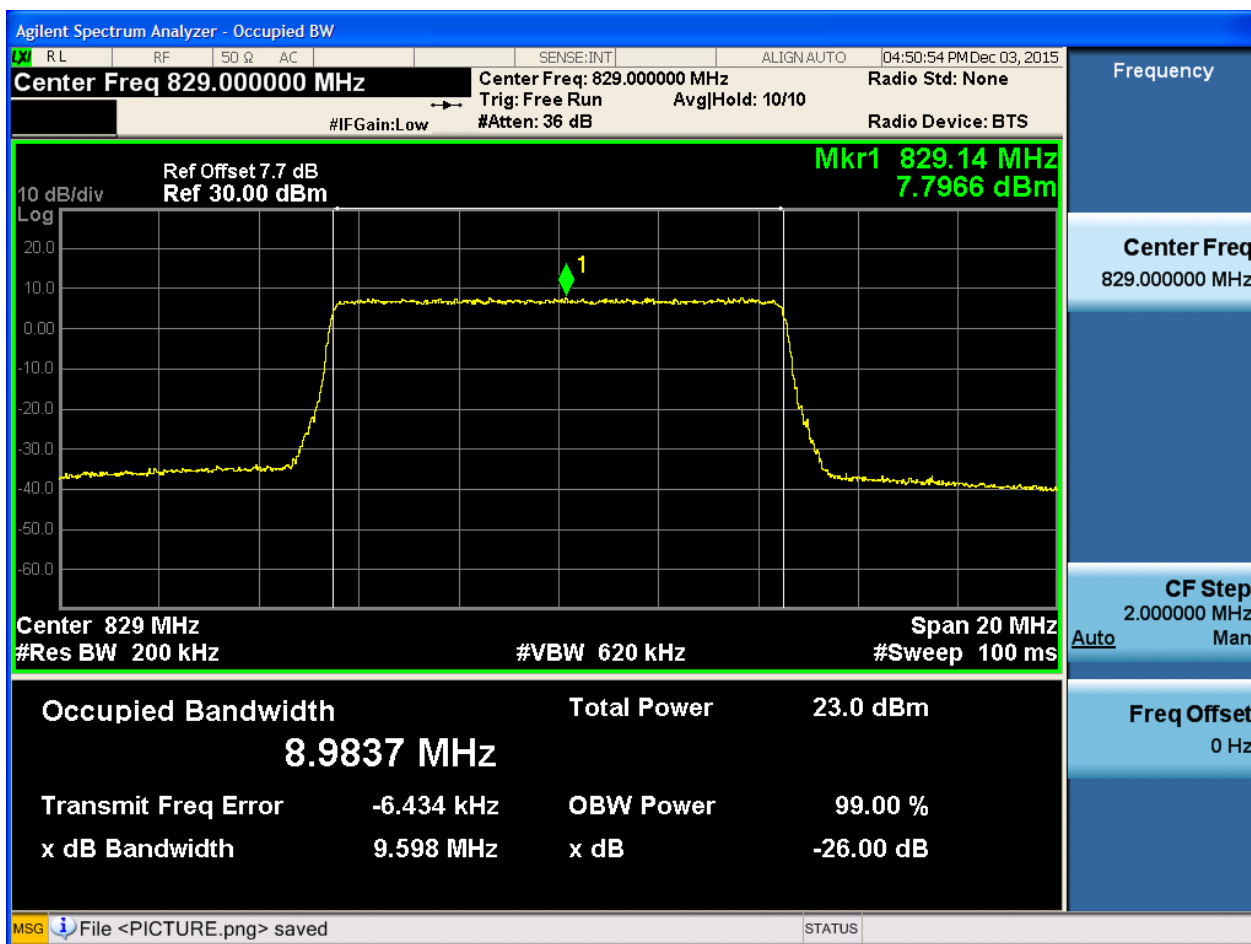




## 4.1.1.2.4 Test Bandwidth = 10

## 4.1.1.2.4.1 Test Channel = LCH

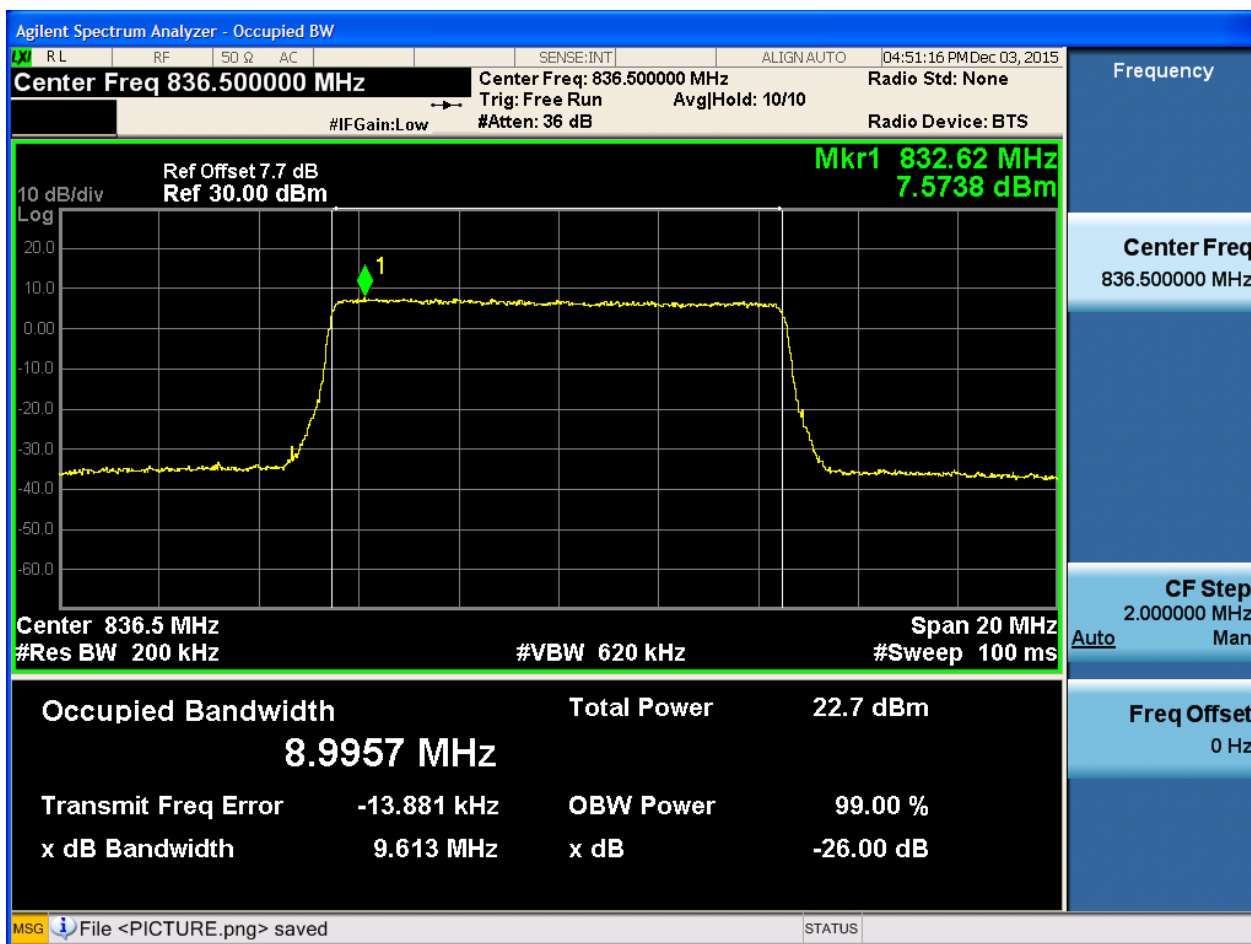
## 4.1.1.2.4.1.1 Test RB = RB50#0





## 4.1.1.2.4.2 Test Channel = MCH

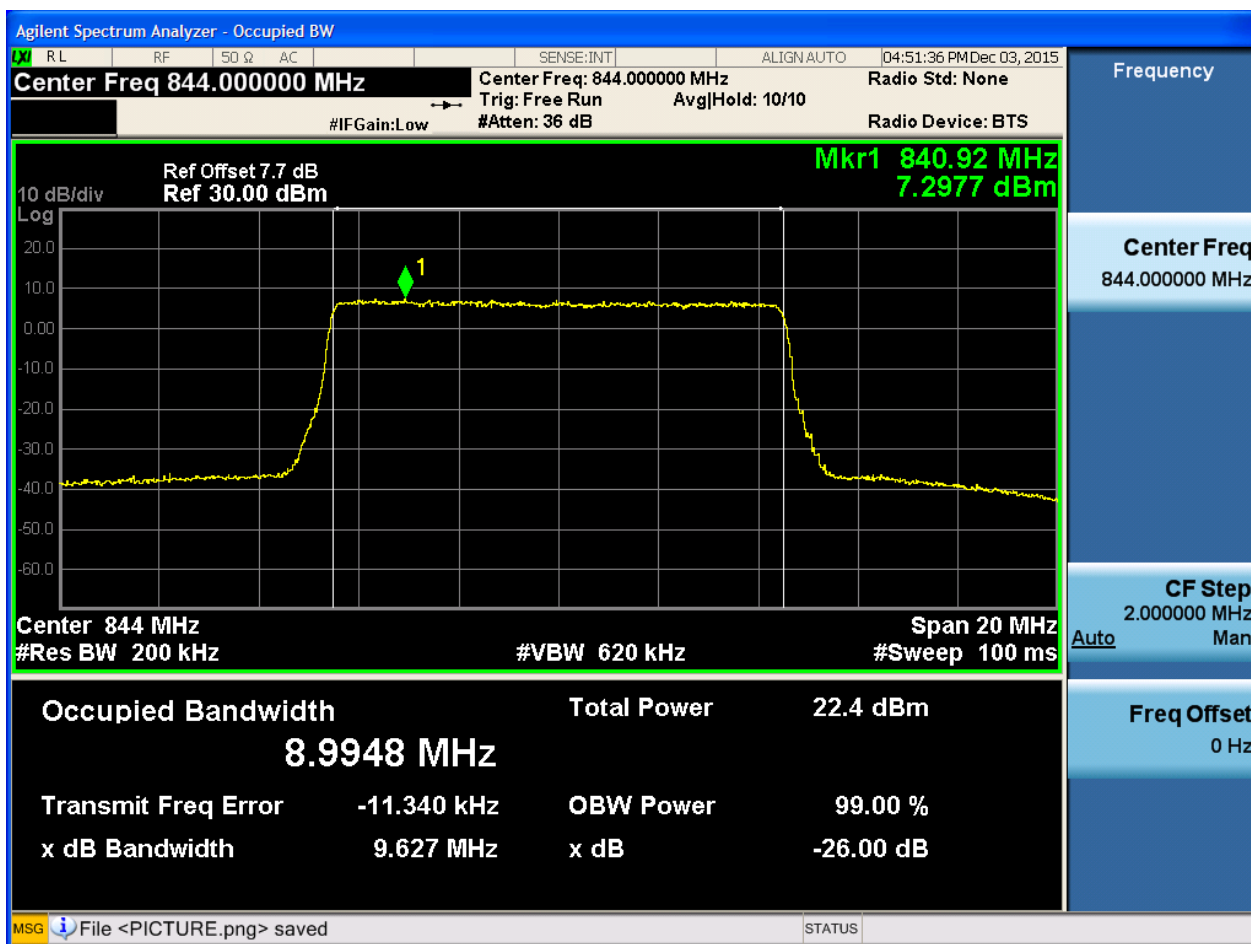
## 4.1.1.2.4.2.1 Test RB = RB50#0





## 4.1.1.2.4.3 Test Channel = HCH

## 4.1.1.2.4.3.1 Test RB = RB50#0



## 5Appendix\_E: Band Edges Compliance

### Part I - Test Plots

#### 5.1 For LTE

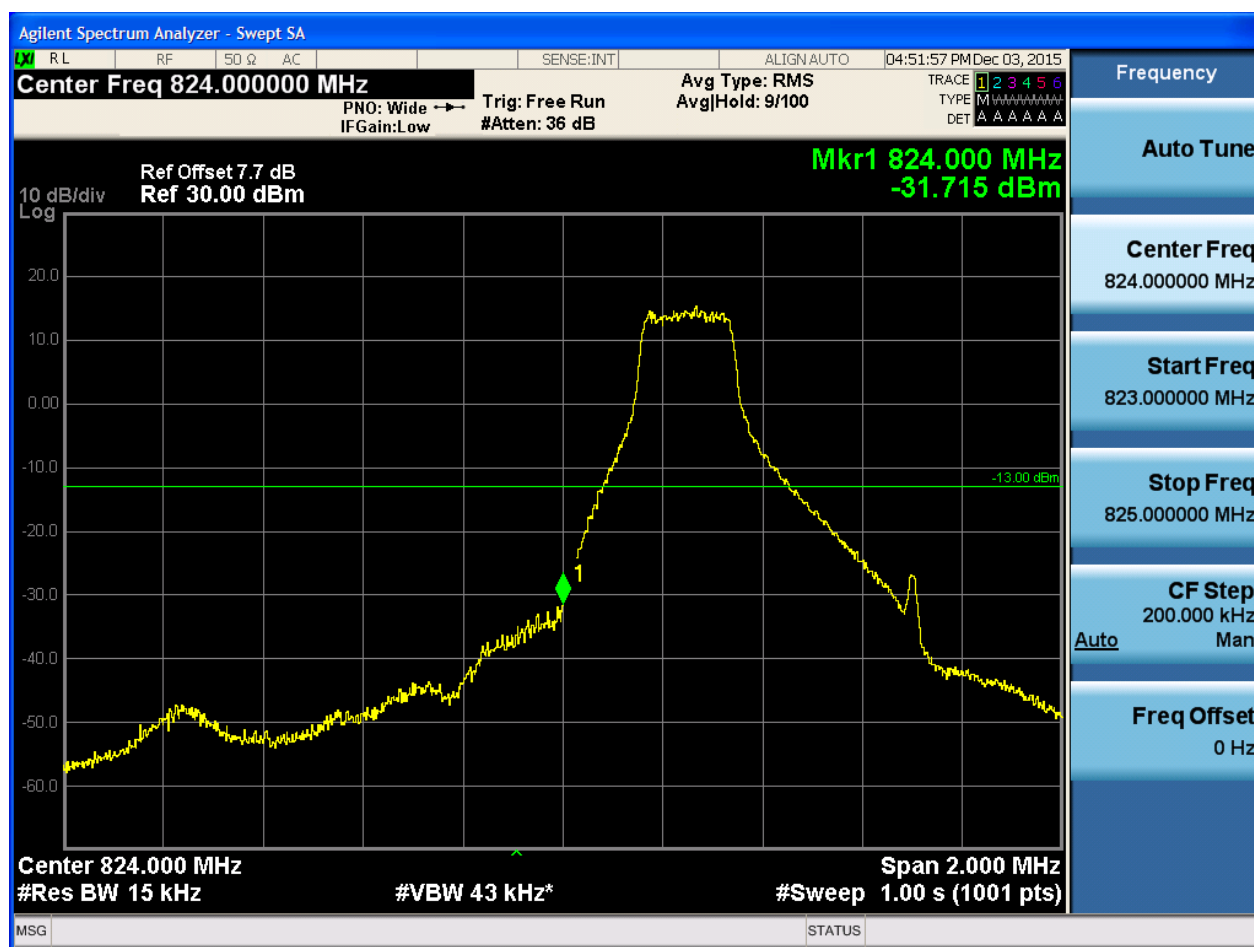
##### 5.1.1 Test Band = BAND5

##### 5.1.1.1 Test Mode = LTE/TM1

##### 5.1.1.1.1 Test Bandwidth = 1.4

##### 5.1.1.1.1.1 Test Channel = LCH

##### 5.1.1.1.1.1.1 Test RB = RB1#0



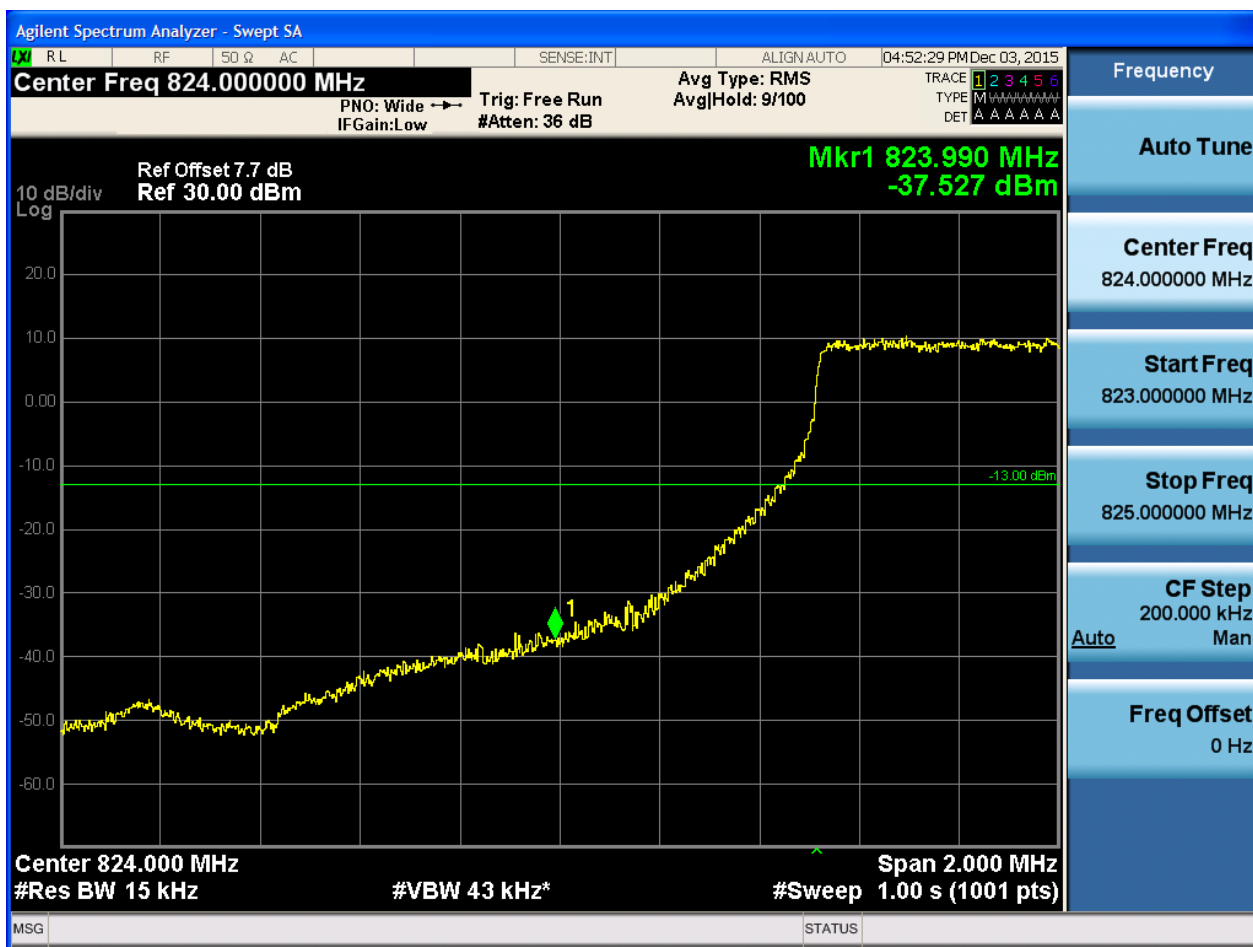


## 5.1.1.1.1.2 Test RB = RB1#5



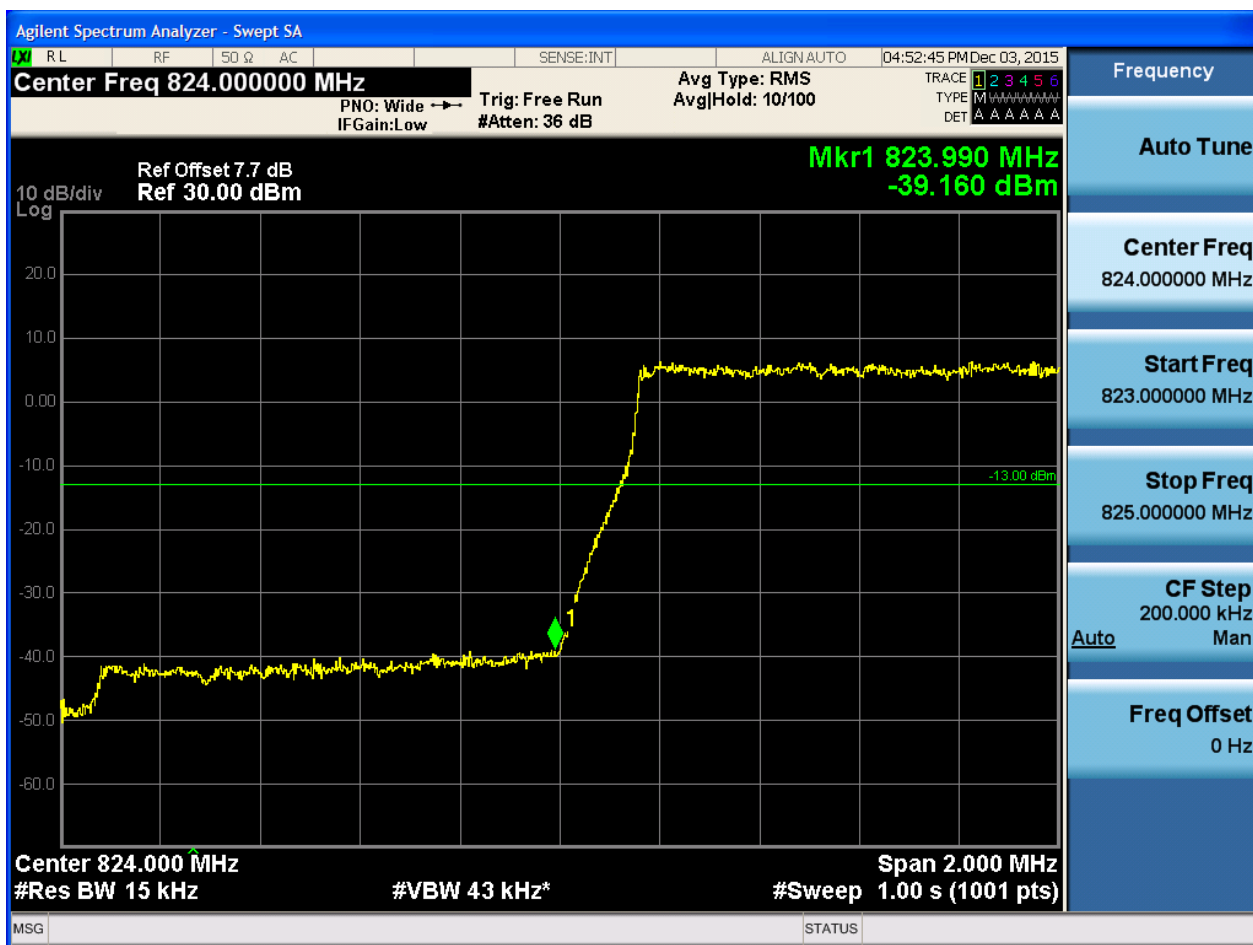


## 5.1.1.1.1.3 Test RB = RB3#2



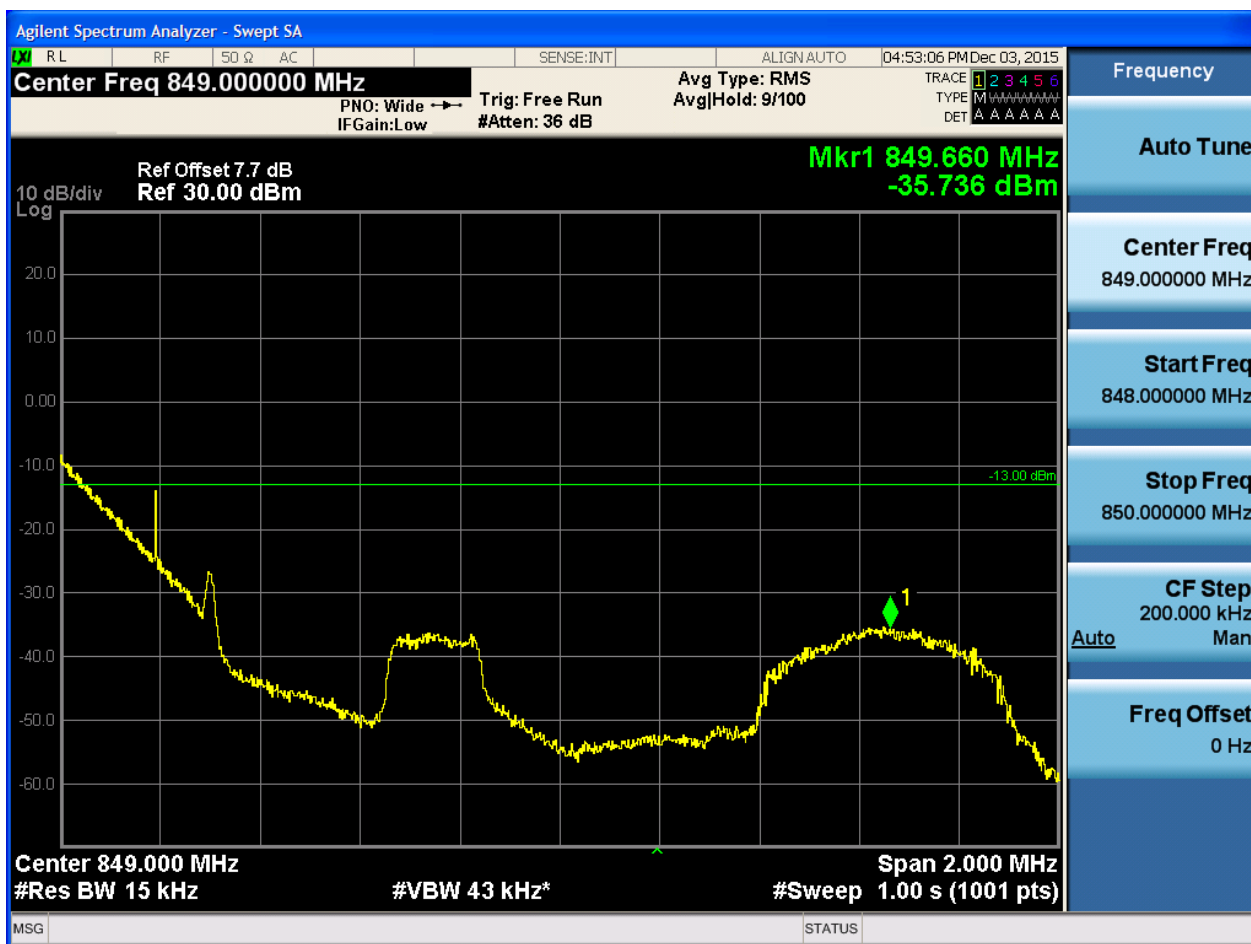


## 5.1.1.1.1.4 Test RB = RB6#0



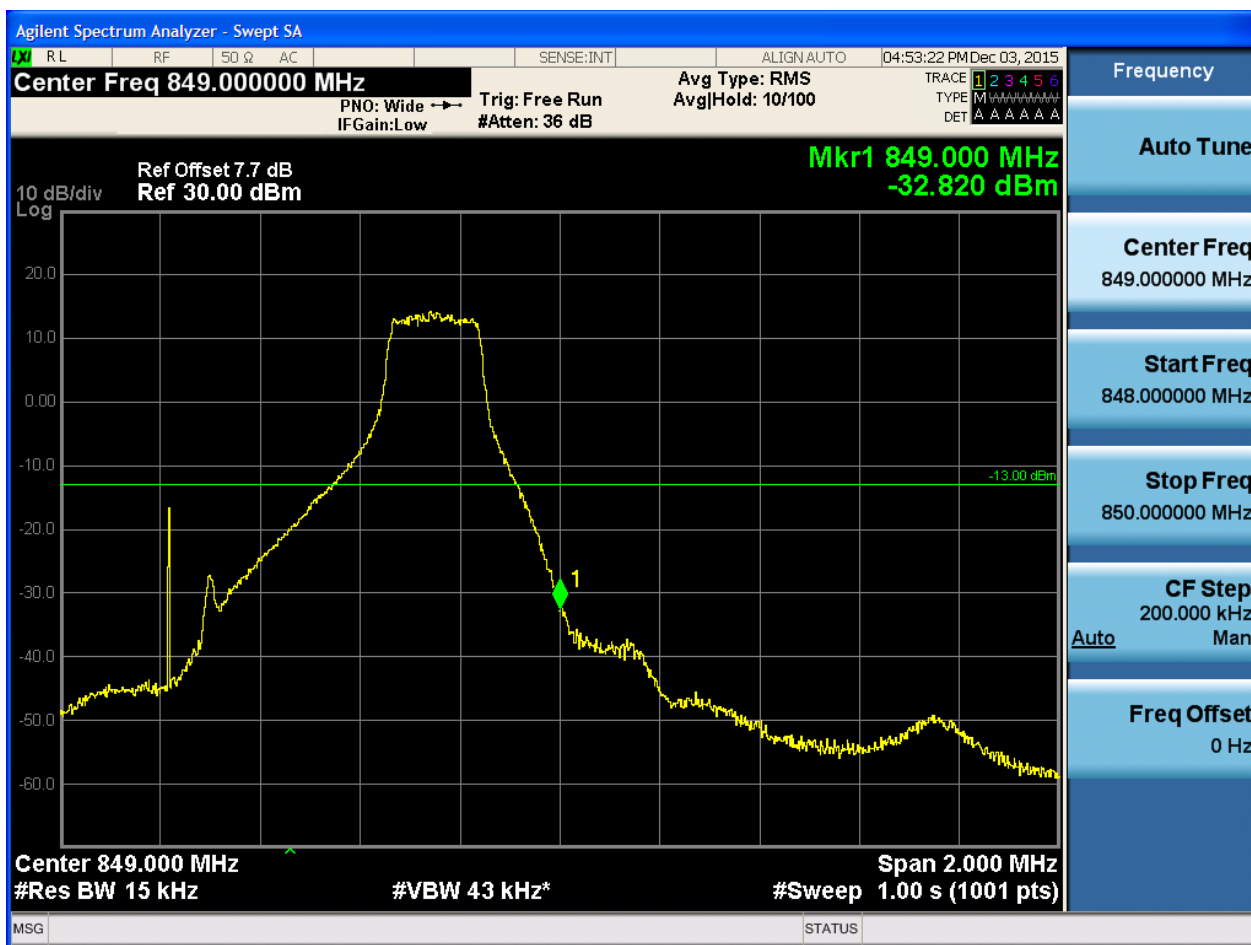
### 5.1.1.1.1.2 Test Channel = HCH

#### 5.1.1.1.1.2.1 Test RB = RB1#0





## 5.1.1.1.2.2 Test RB = RB1#5





## 5.1.1.1.2.3 Test RB = RB3#2





## 5.1.1.1.2.4 Test RB = RB6#0

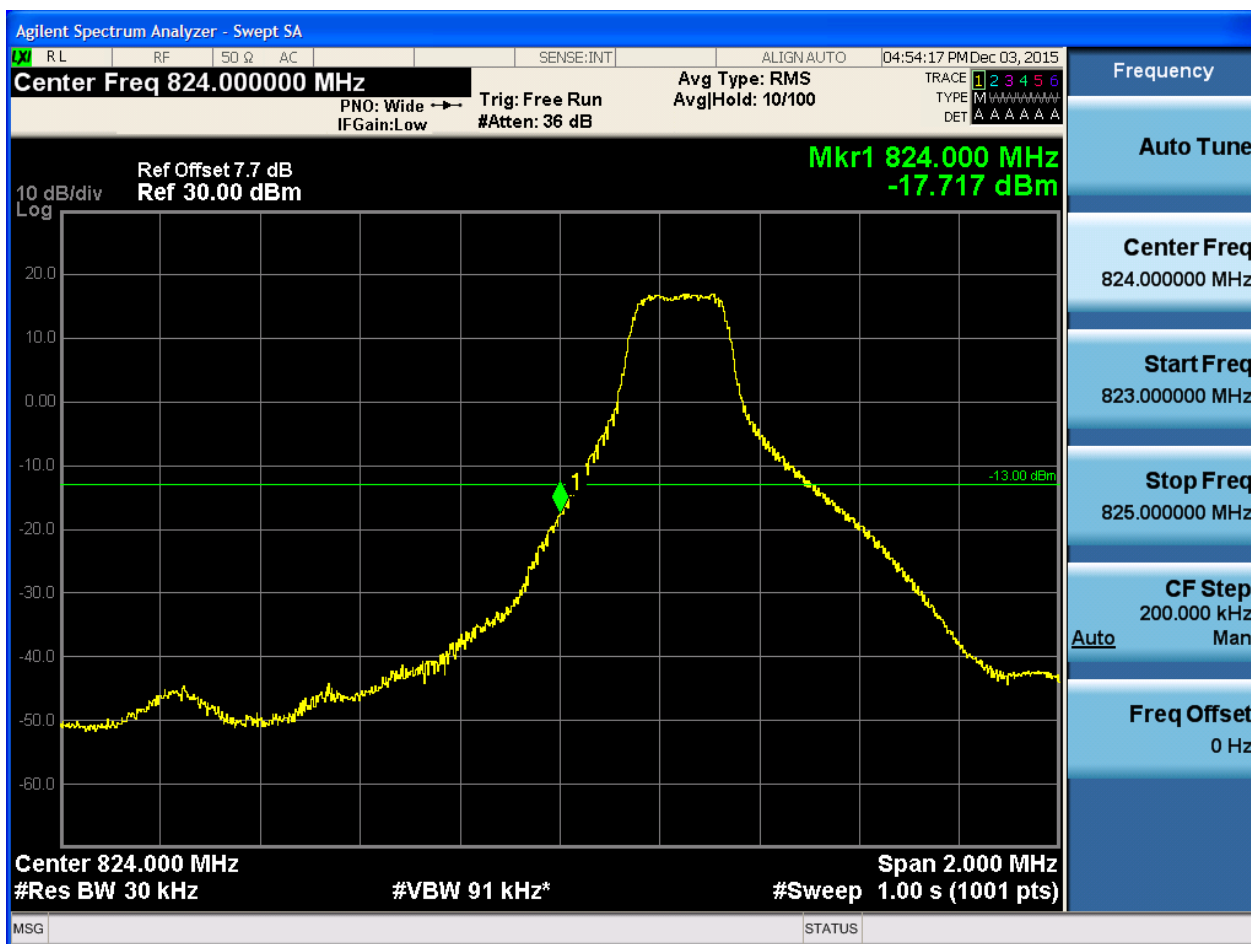




## 5.1.1.1.2 Test Bandwidth = 3

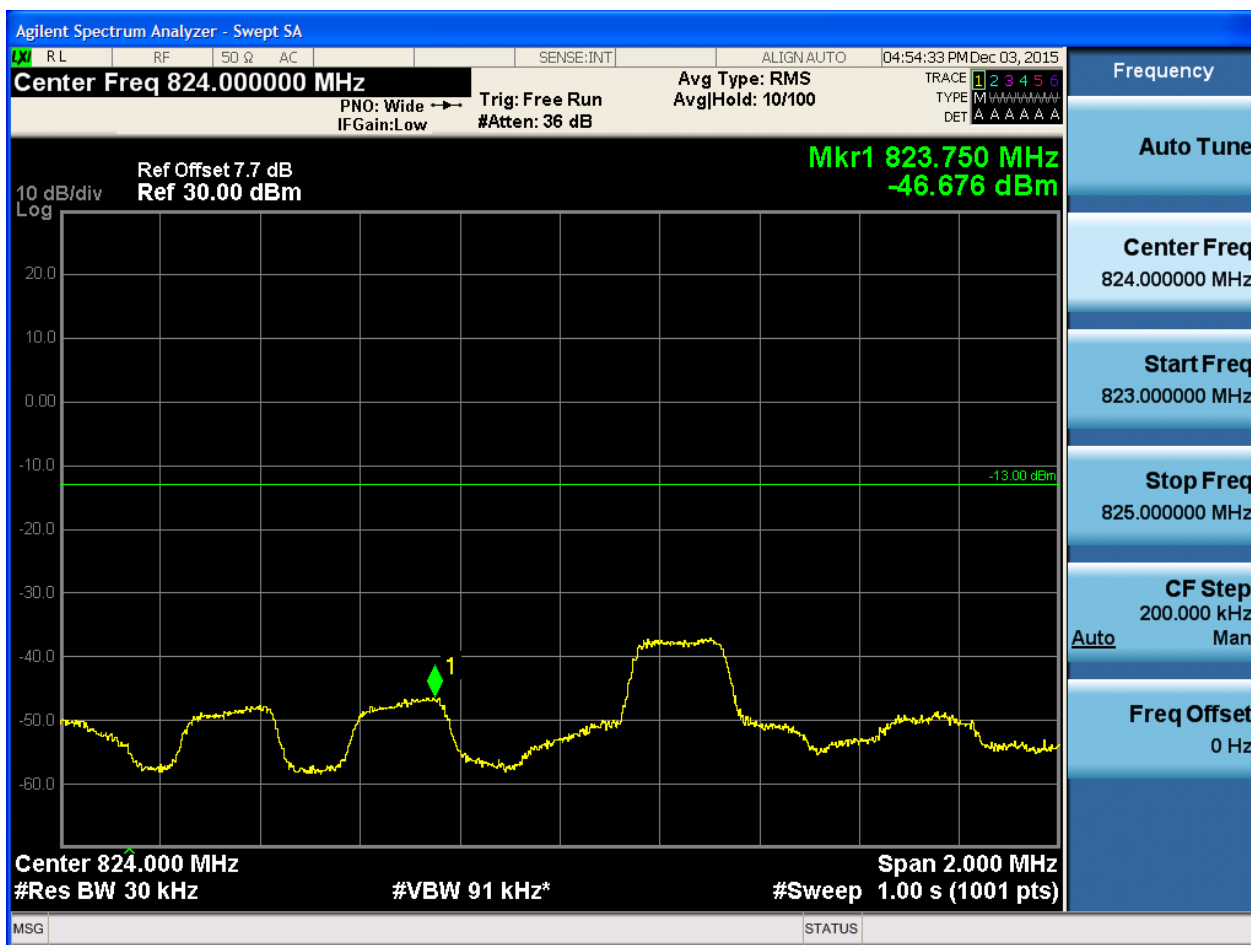
## 5.1.1.1.2.1 Test Channel = LCH

## 5.1.1.1.2.1.1 Test RB = RB1#0



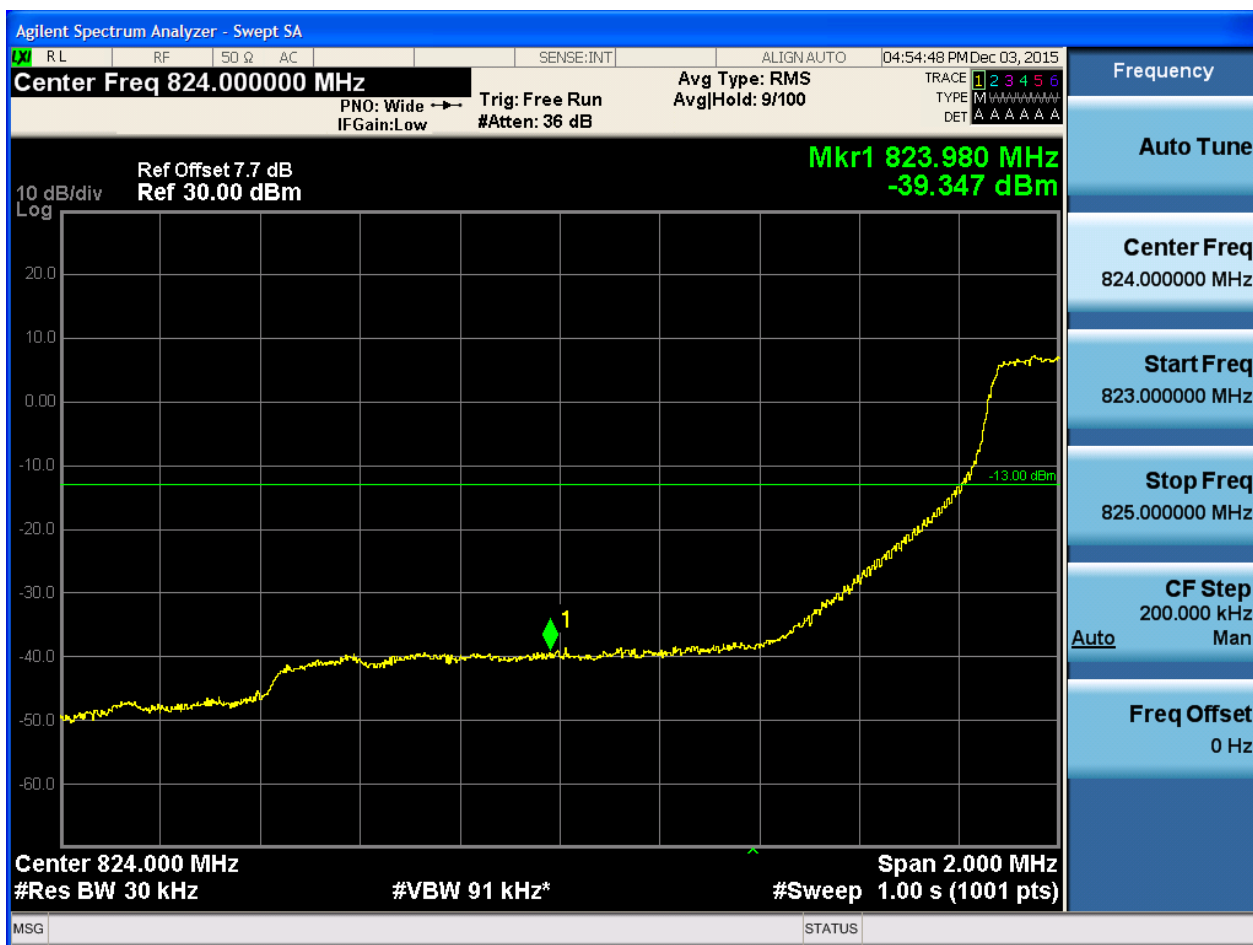


## 5.1.1.1.2.1.2 Test RB = RB1#14



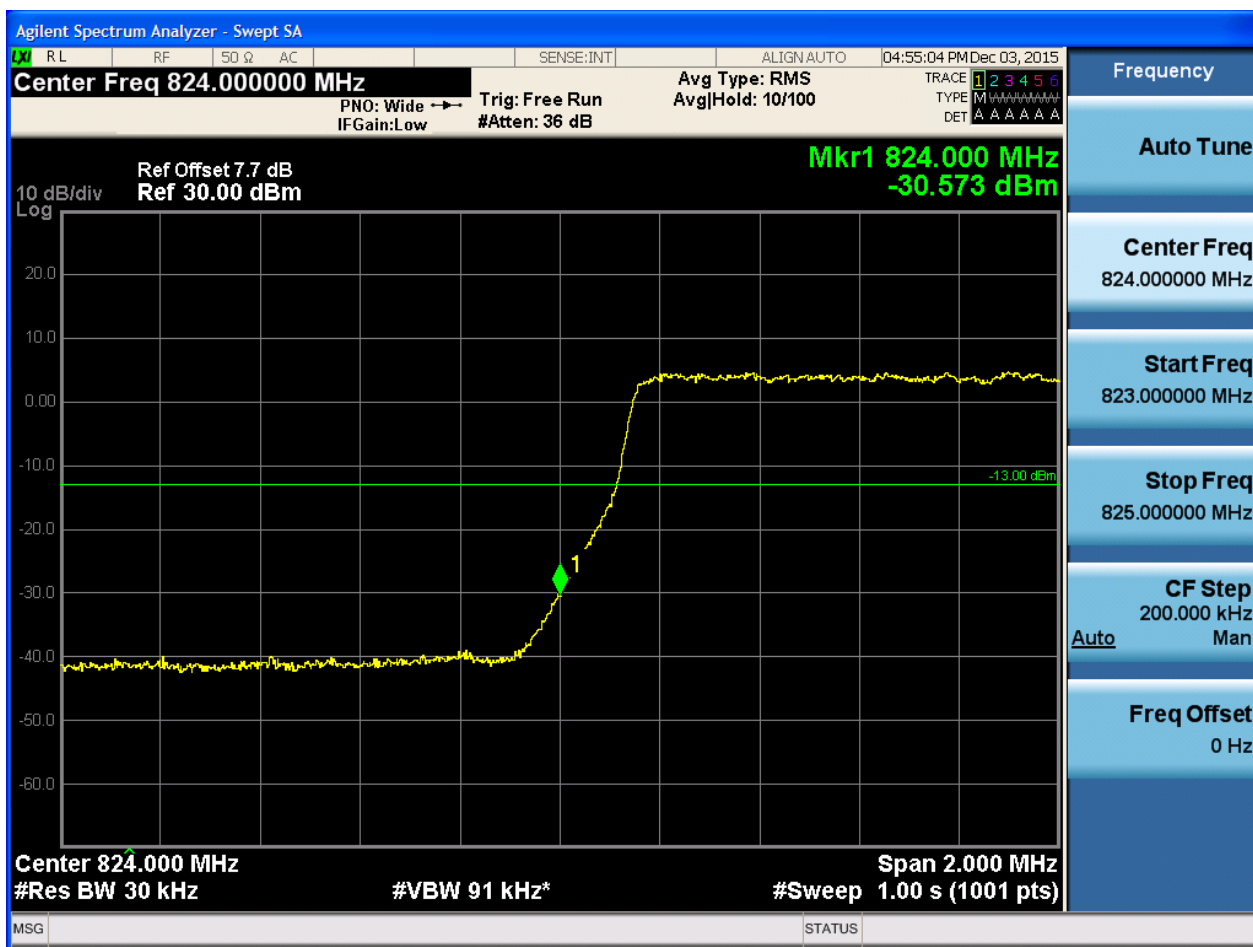


## 5.1.1.1.2.1.3 Test RB = RB8#4



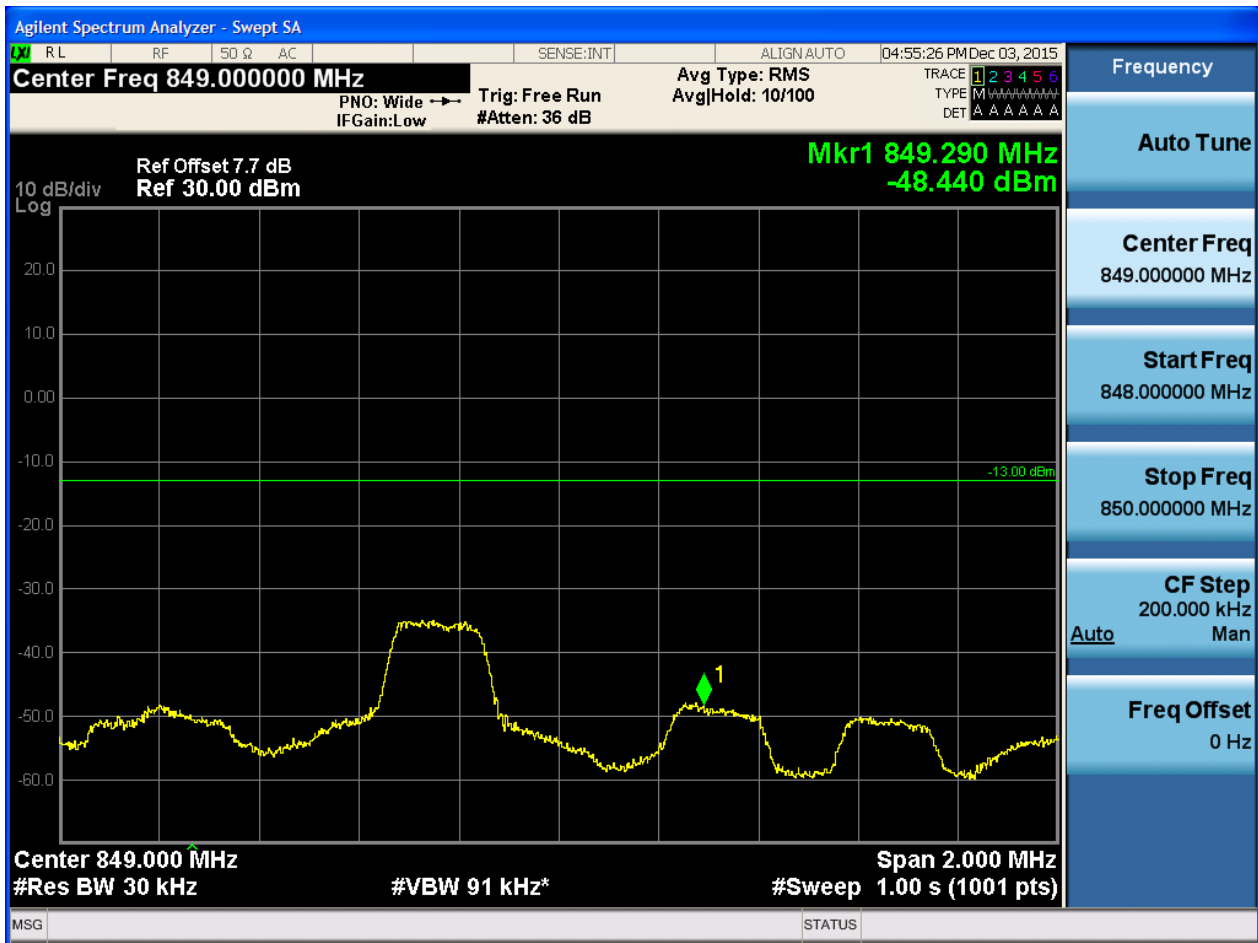


## 5.1.1.1.2.1.4 Test RB = RB15#0



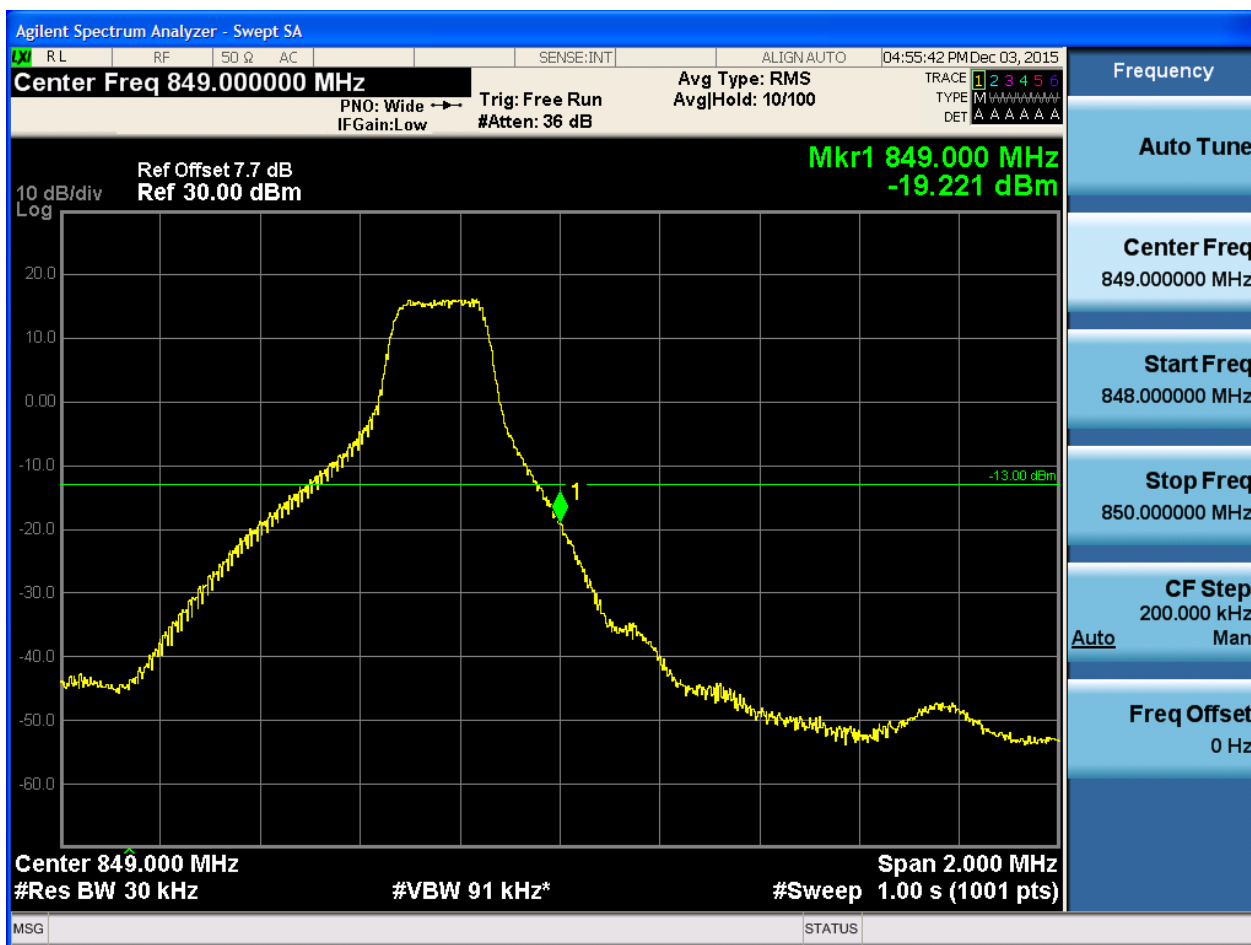


#### 5.1.1.1.2.2.1 Test RB = RB1#0





## 5.1.1.1.2.2.2 Test RB = RB1#14





## 5.1.1.1.2.2.3 Test RB = RB8#4





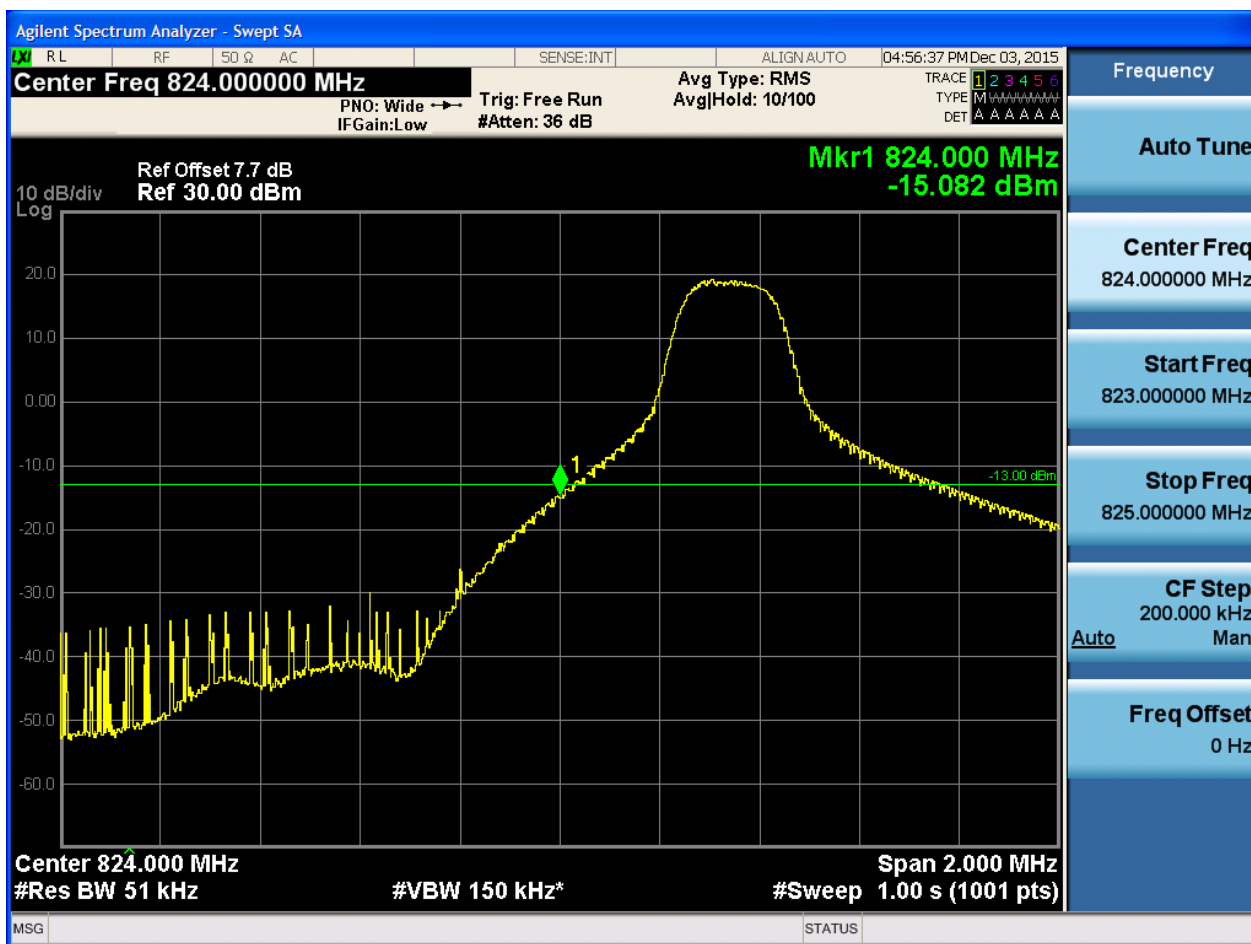
## 5.1.1.1.2.2.4 Test RB = RB15#0



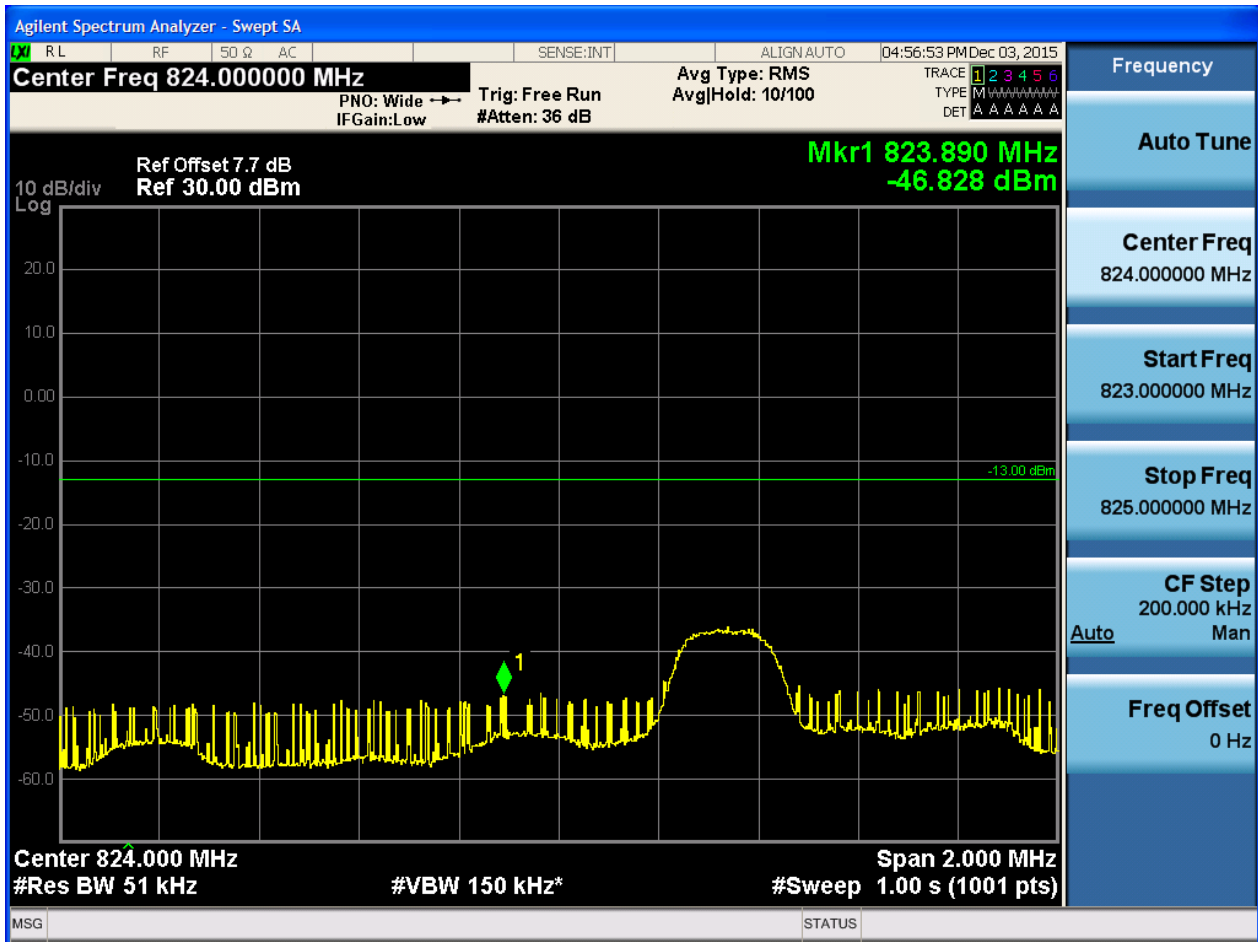
### 5.1.1.1.3 Test Bandwidth = 5

#### 5.1.1.1.3.1 Test Channel = LCH

##### 5.1.1.1.3.1.1 Test RB = RB1#0



#### 5.1.1.1.3.1.2 Test RB = RB1#24



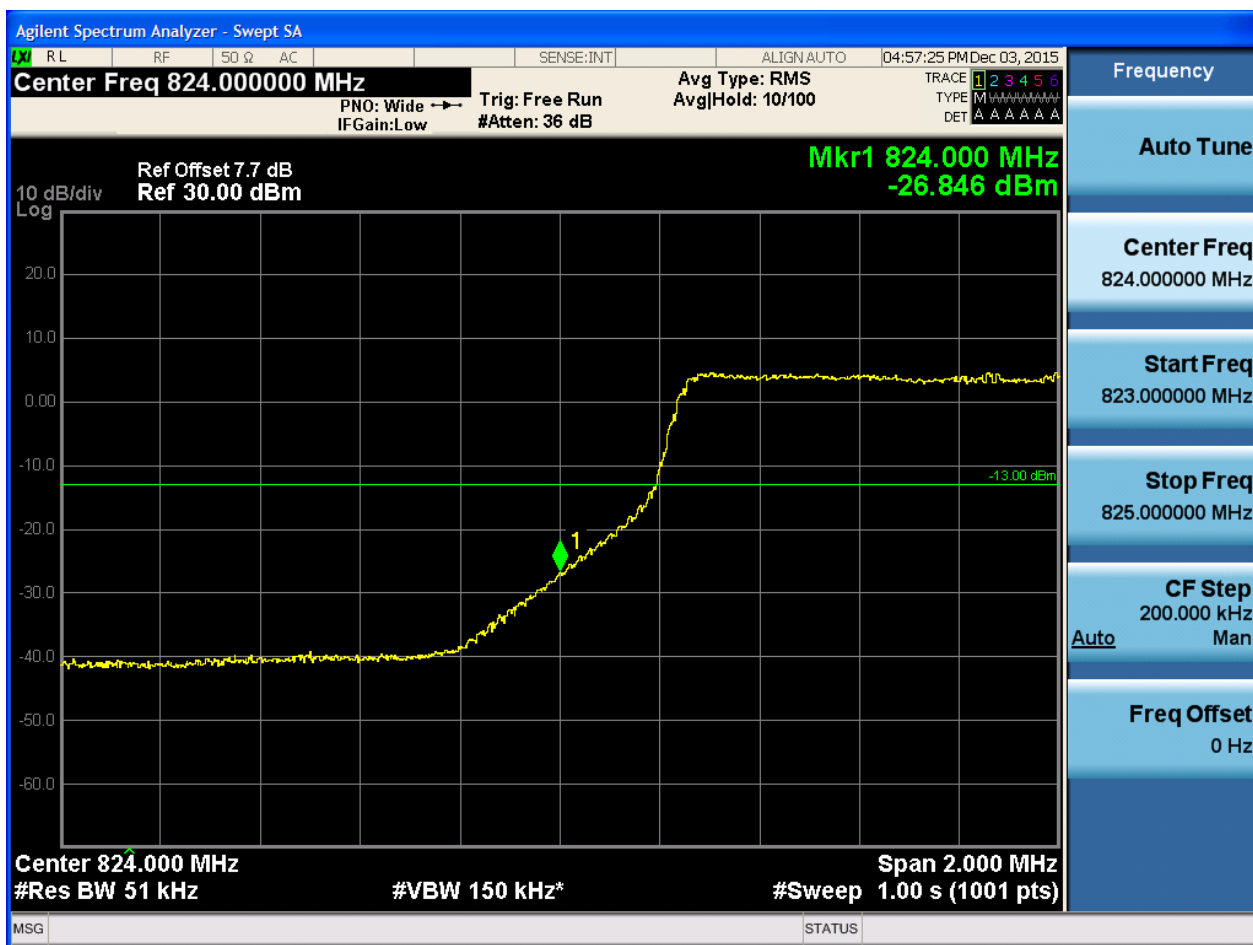


## 5.1.1.1.3.1.3 Test RB = RB12#6





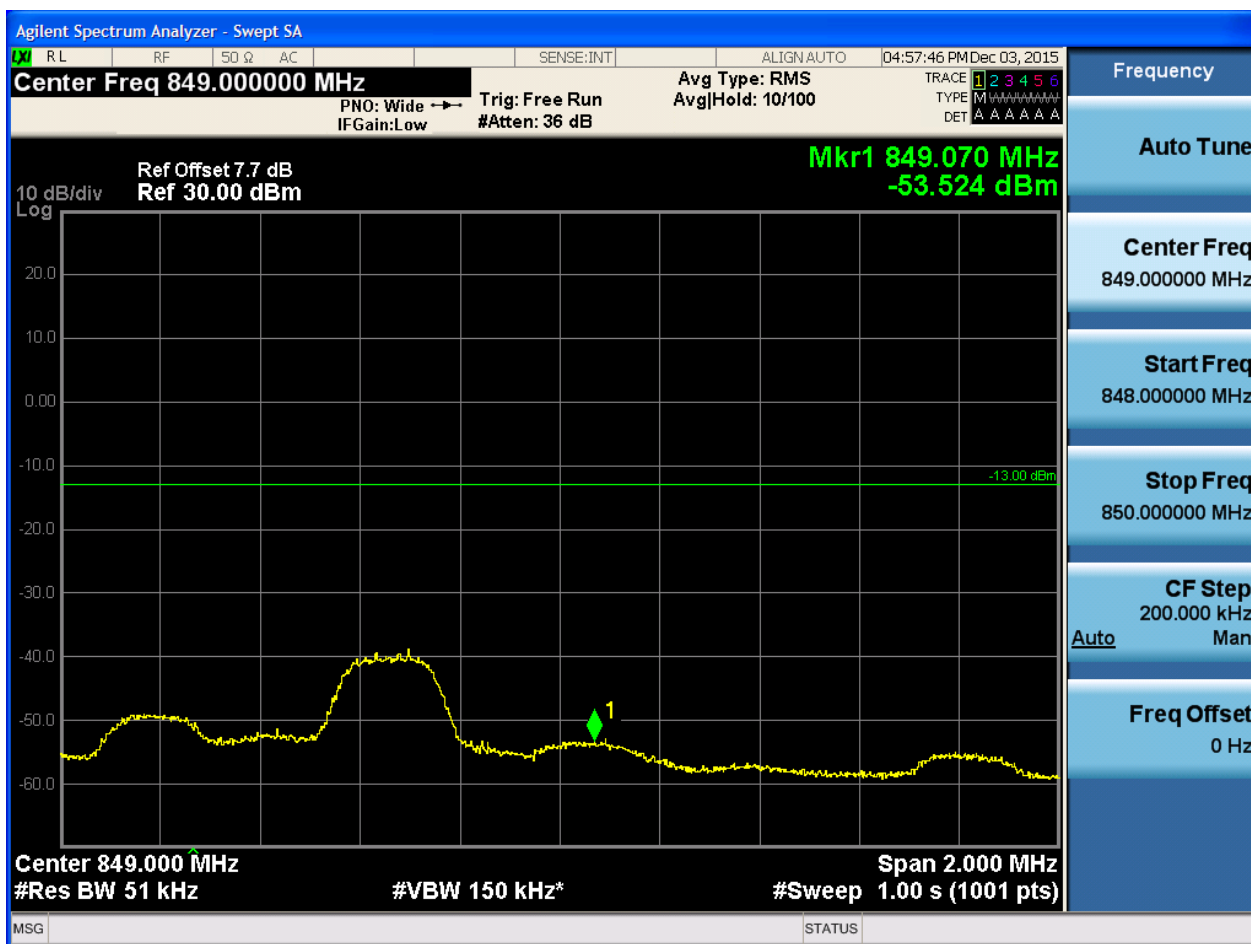
## 5.1.1.1.3.1.4 Test RB = RB25#0





## 5.1.1.1.3.2 Test Channel = HCH

## 5.1.1.1.3.2.1 Test RB = RB1#0





## 5.1.1.1.3.2.2 Test RB = RB1#24





## 5.1.1.1.3.2.3 Test RB = RB12#6





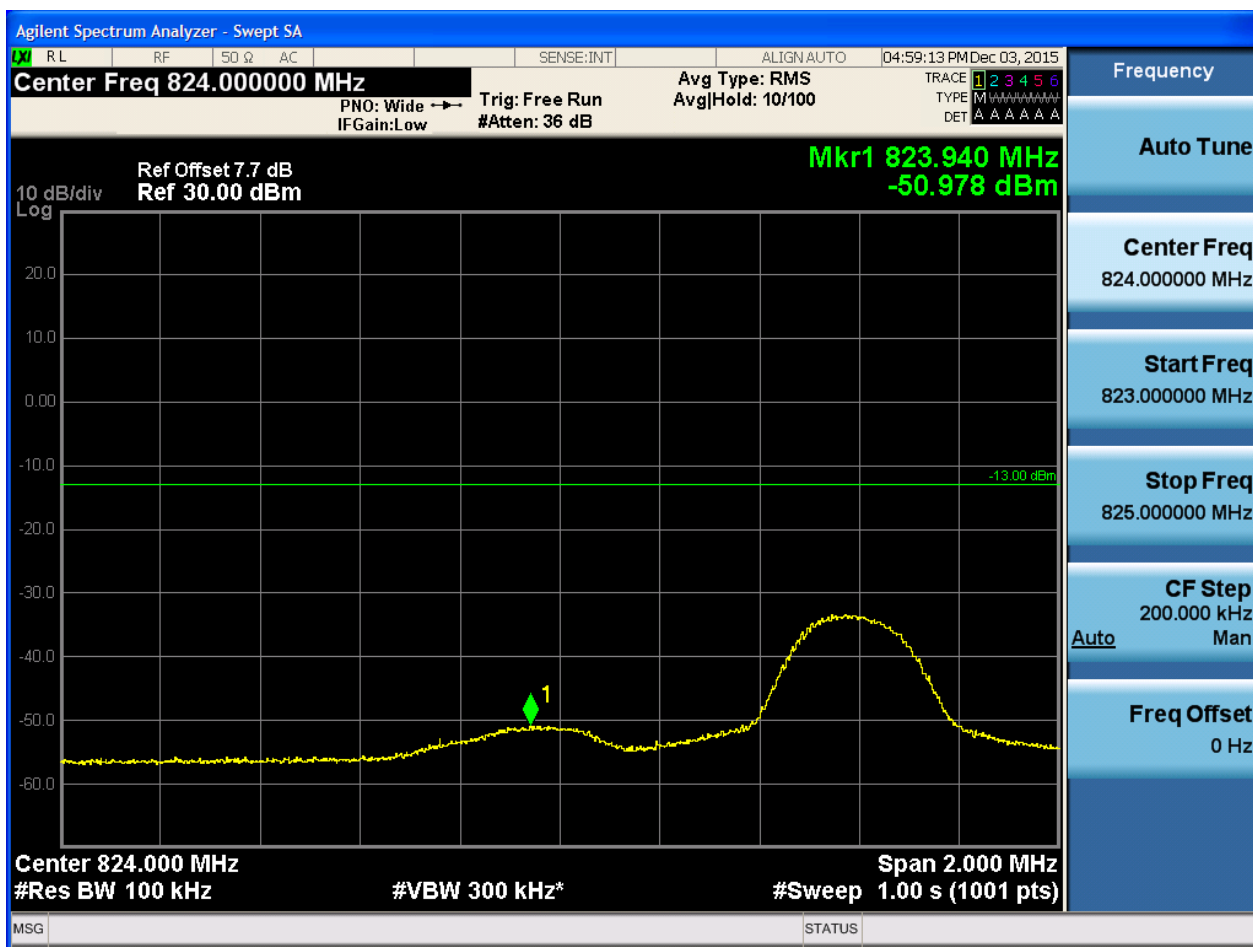
## 5.1.1.1.3.2.4 Test RB = RB25#0





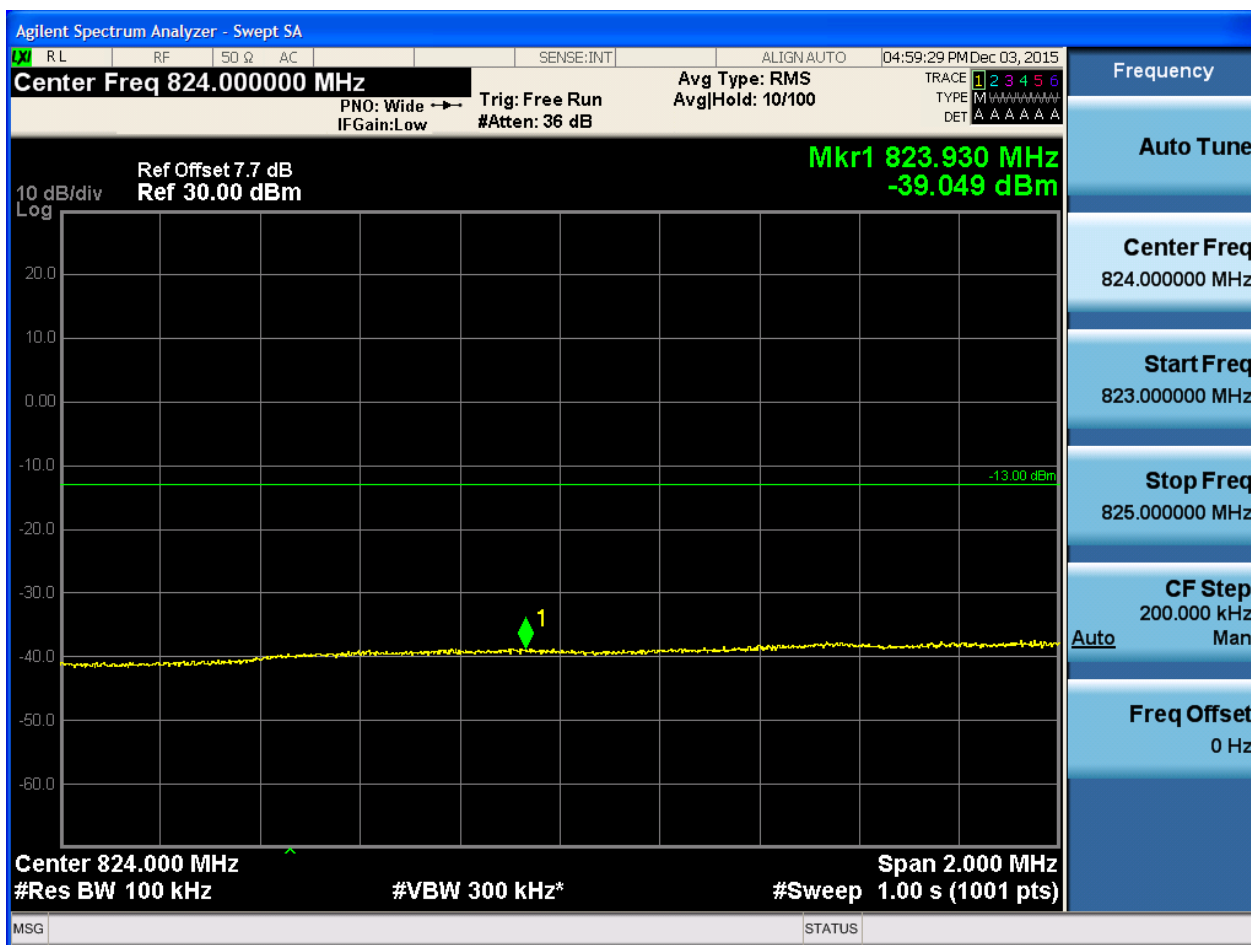


## 5.1.1.1.4.1.2 Test RB = RB1#49





## 5.1.1.1.4.1.3 Test RB = RB25#13



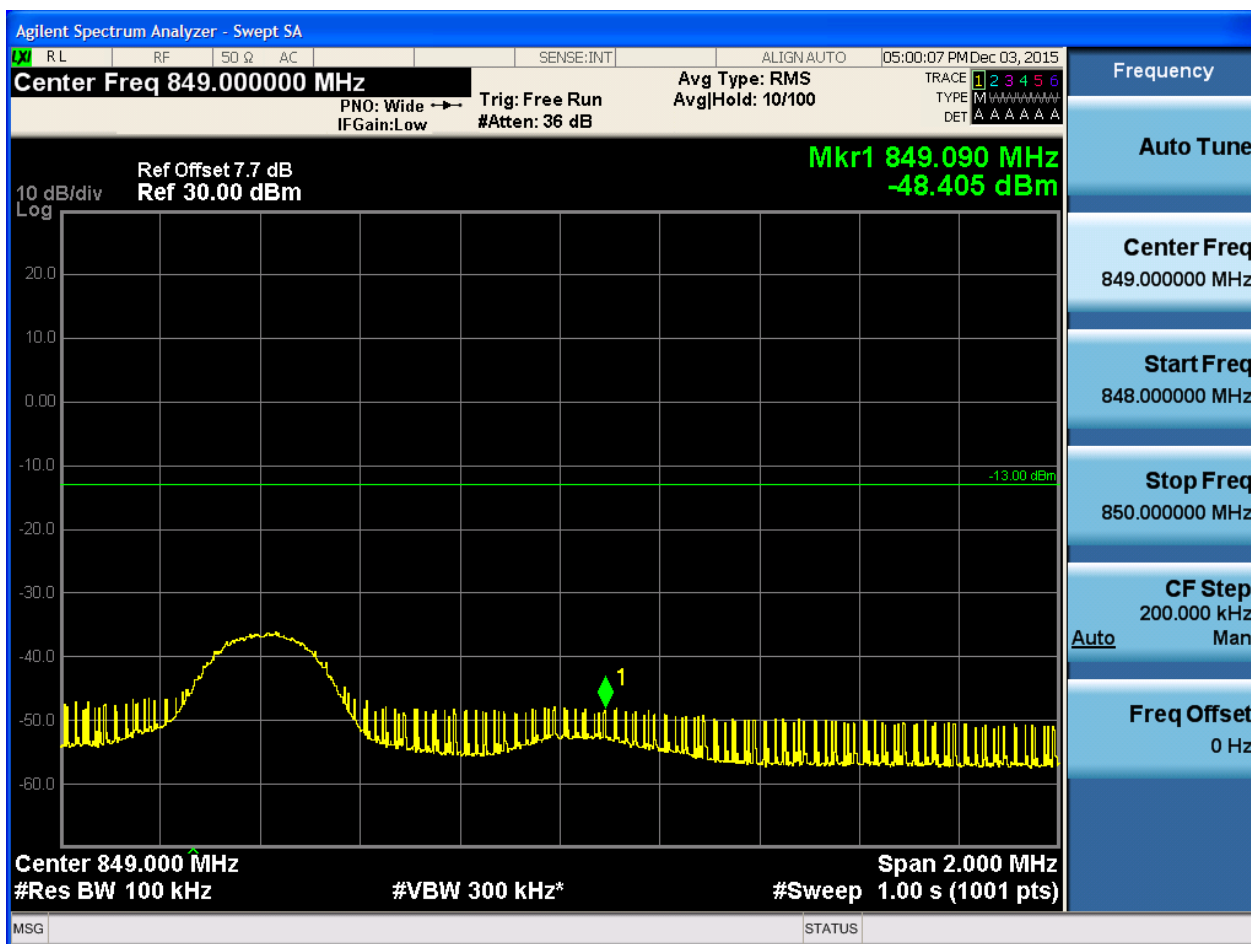


## 5.1.1.1.4.1.4 Test RB = RB50#0



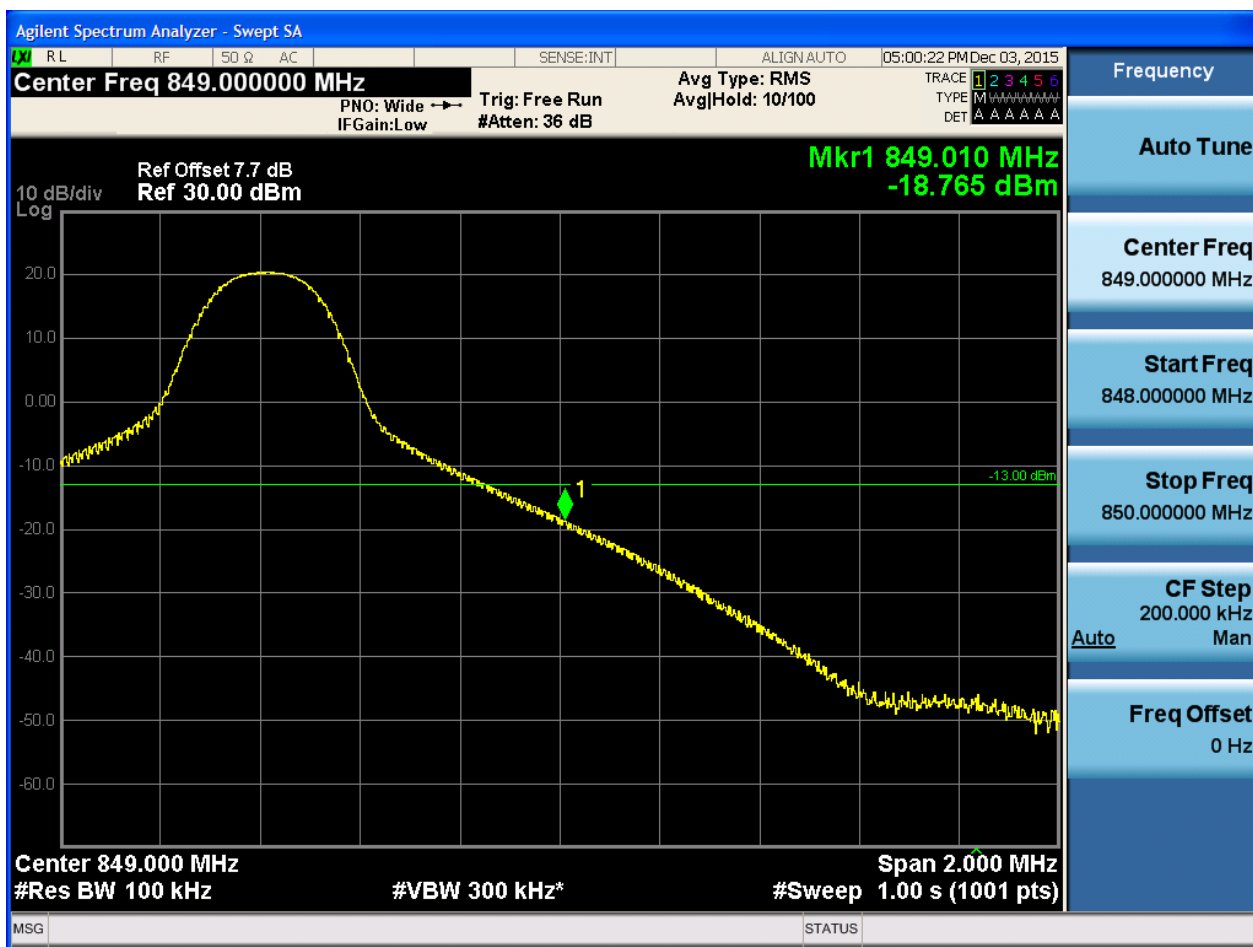
### 5.1.1.1.4.2 Test Channel = HCH

#### 5.1.1.1.4.2.1 Test RB = RB1#0



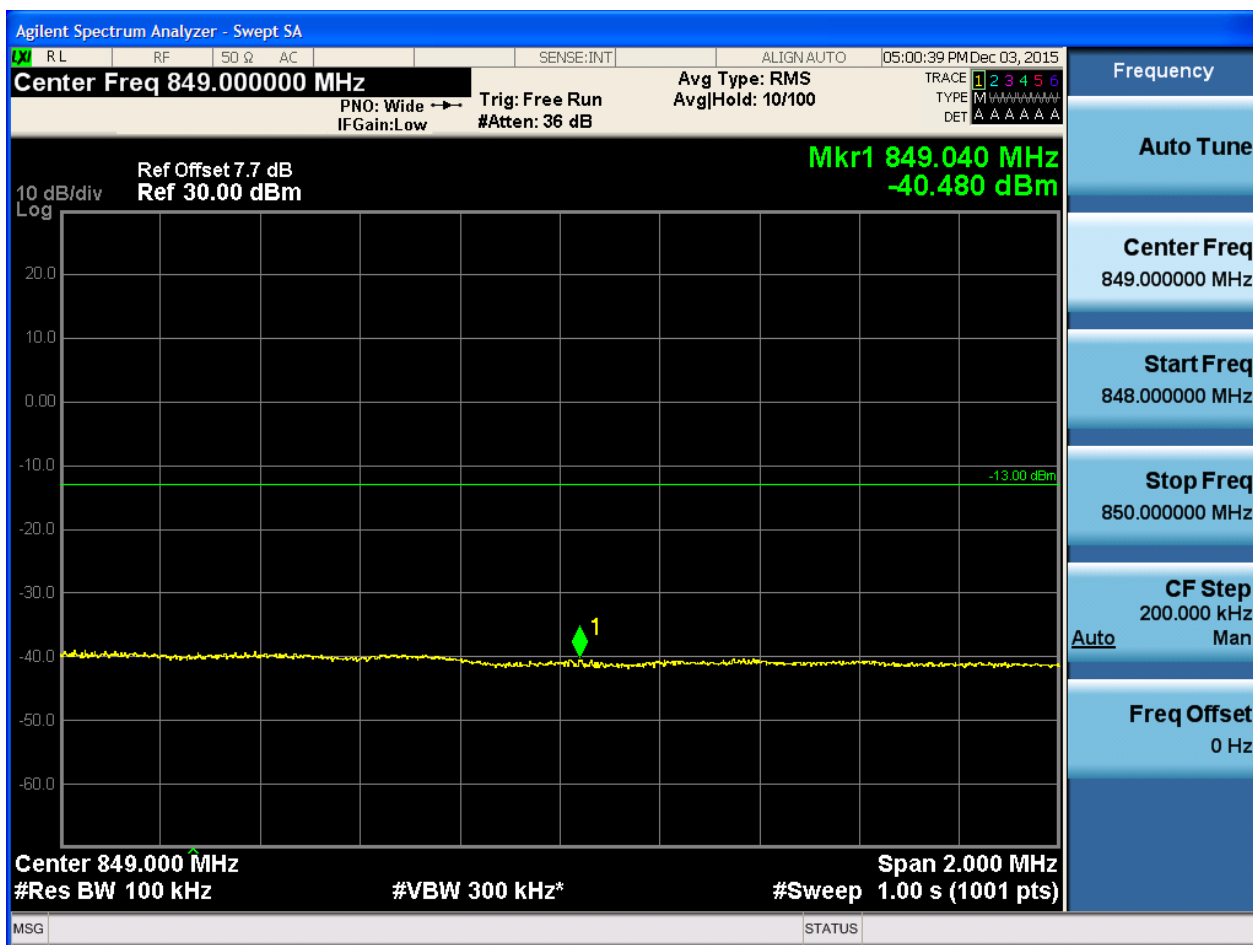


## 5.1.1.1.4.2.2 Test RB = RB1#49





## 5.1.1.1.4.2.3 Test RB = RB25#13





## 5.1.1.1.4.2.4 Test RB = RB50#0



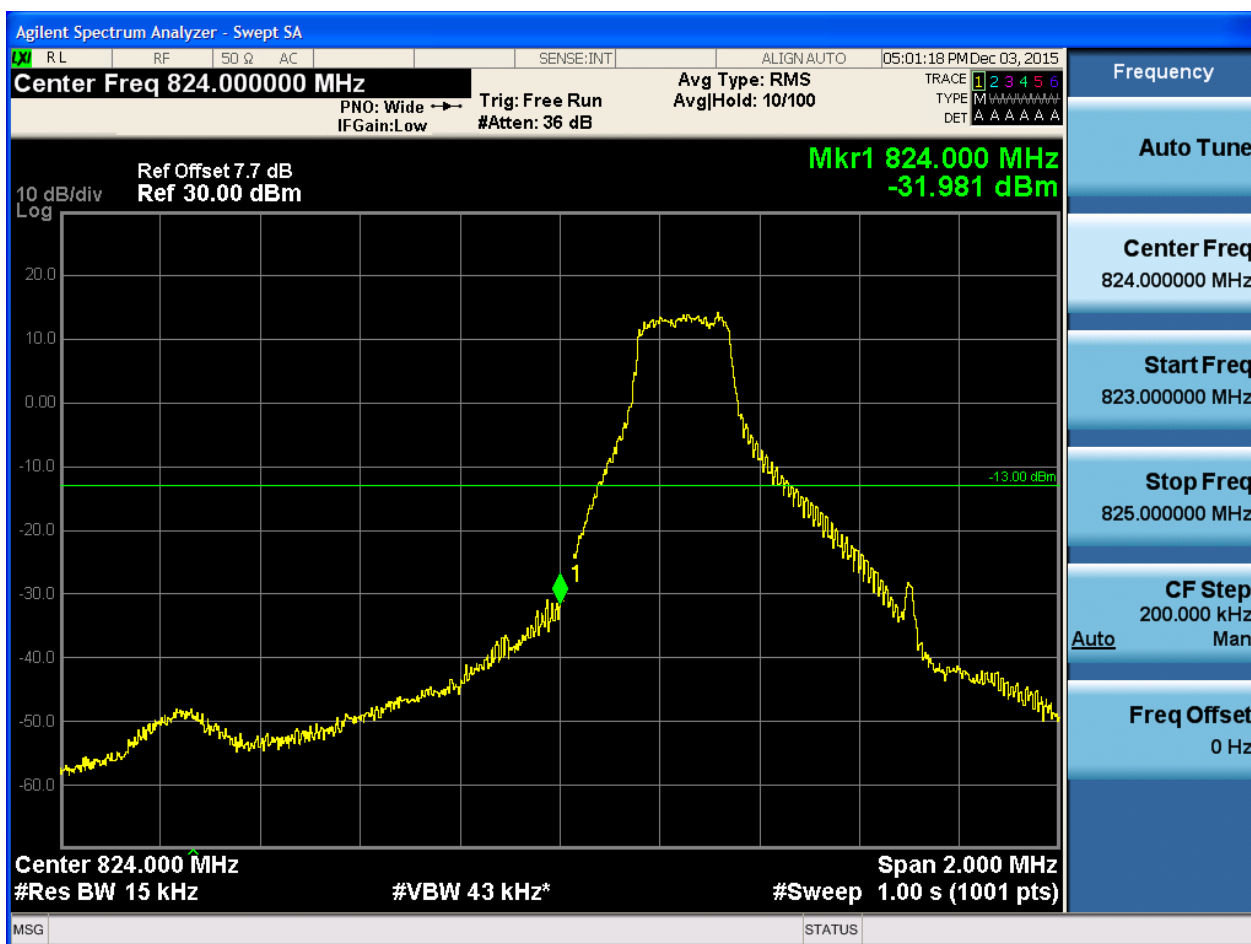


## 5.1.1.2 Test Mode = LTE/TM2

## 5.1.1.2.1 Test Bandwidth = 1.4

## 5.1.1.2.1.1 Test Channel = LCH

## 5.1.1.2.1.1.1 Test RB = RB1#0



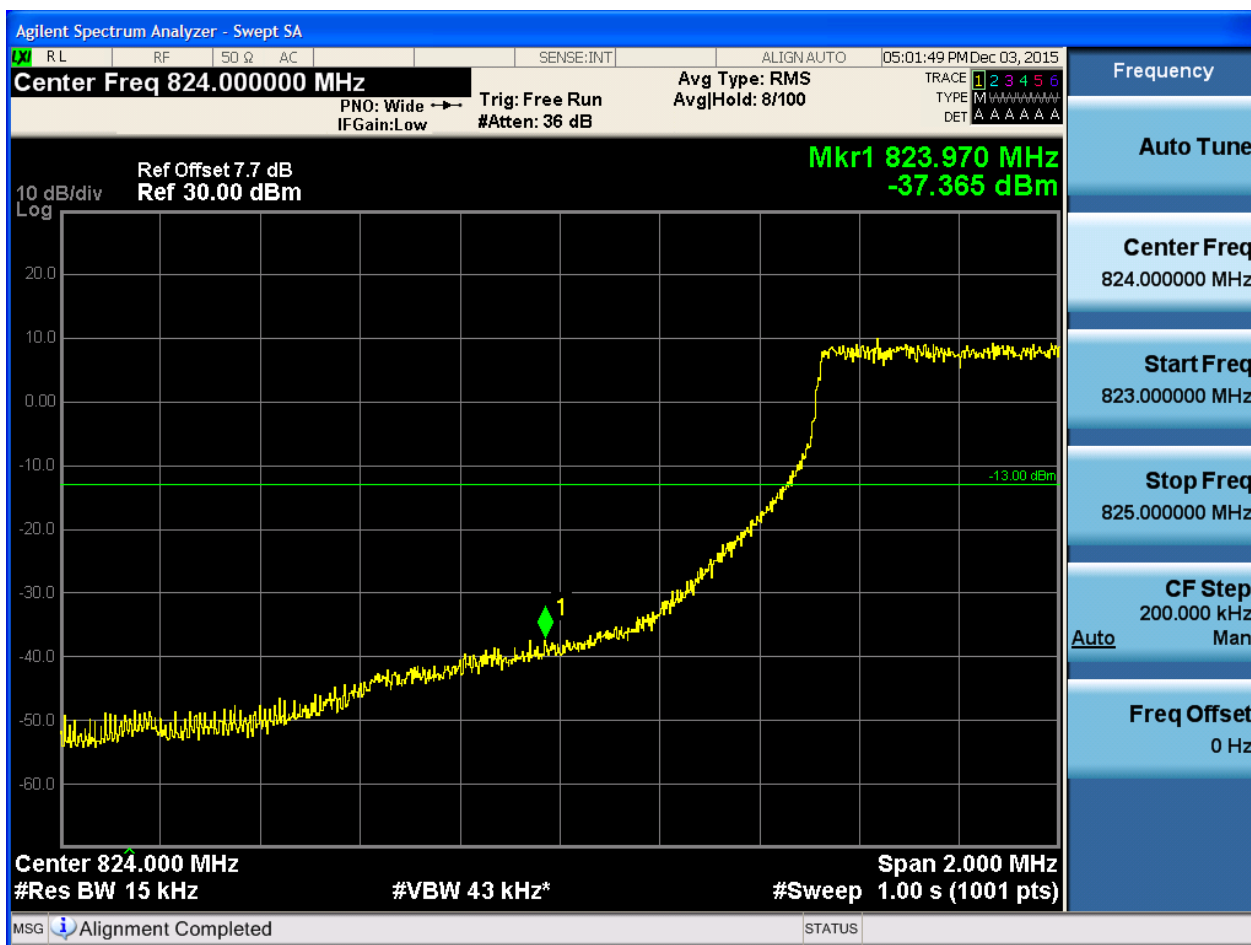


## 5.1.1.2.1.2 Test RB = RB1#5



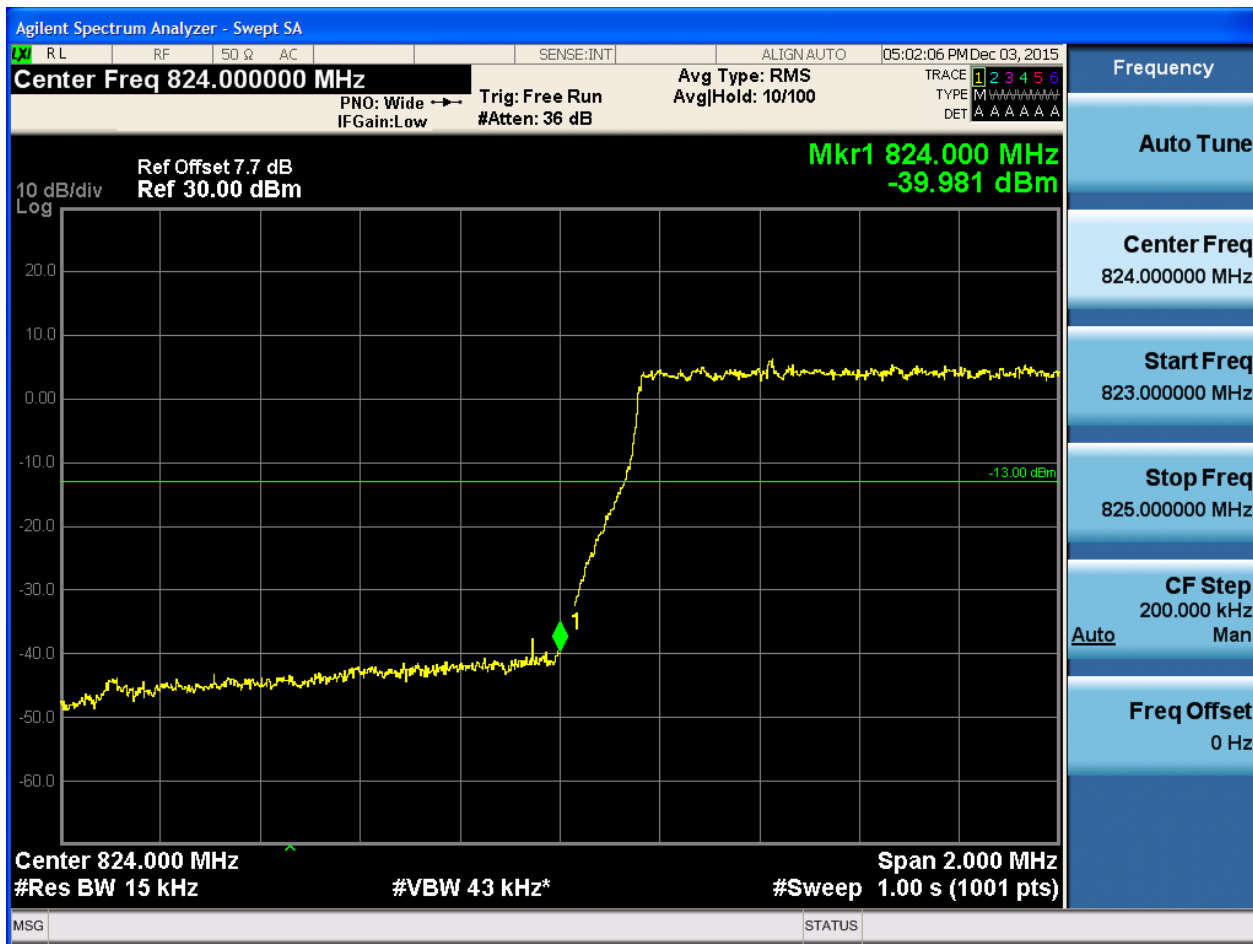


## 5.1.1.2.1.1.3 Test RB = RB3#2





## 5.1.1.2.1.1.4 Test RB = RB6#0





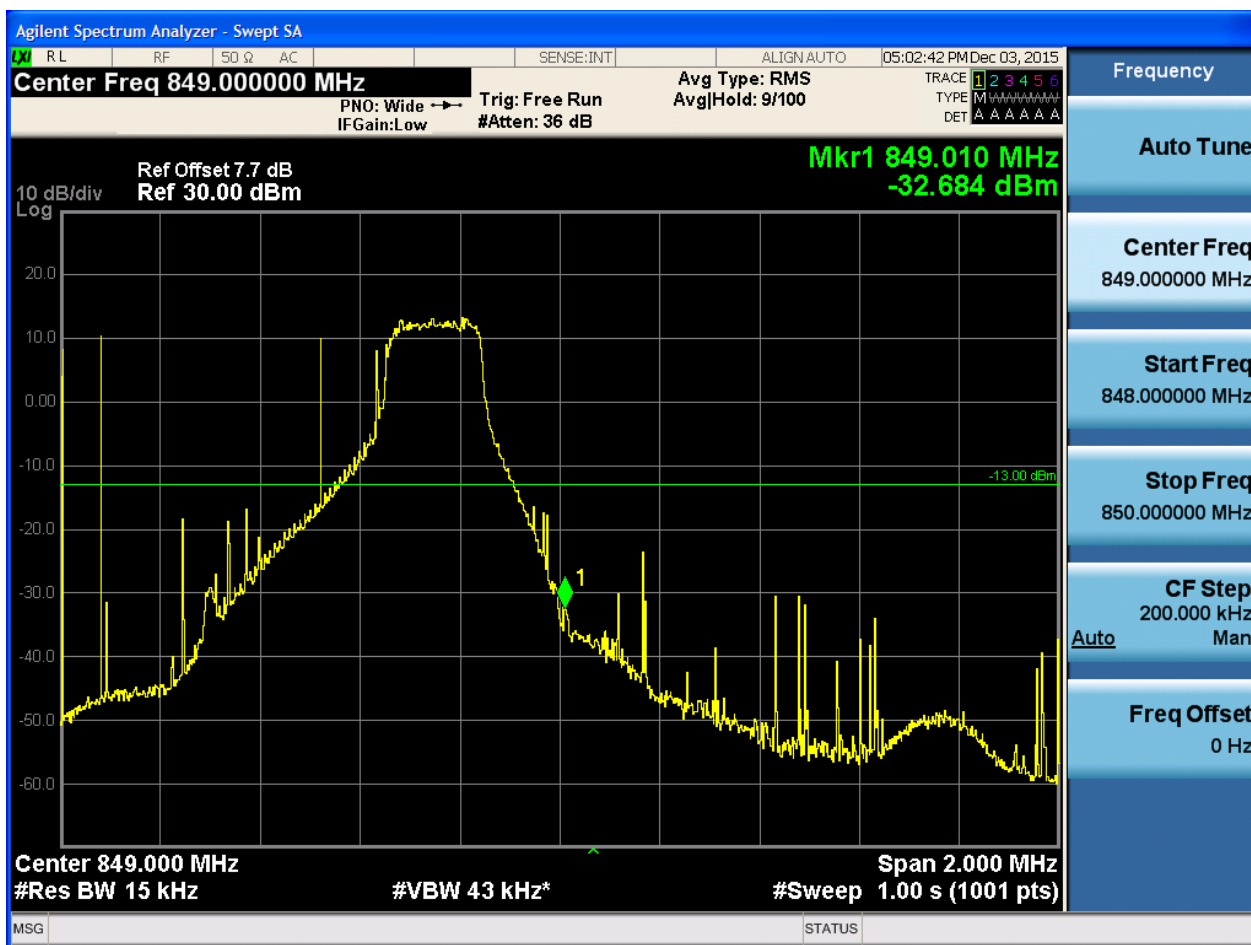
## 5.1.1.2.1.2 Test Channel = HCH

## 5.1.1.2.1.2.1 Test RB = RB1#0





## 5.1.1.2.1.2.2 Test RB = RB1#5





Agilent Spectrum Analyzer - Swept SA

Center Freq 849.000000 MHz

Ref Offset 7.7 dB  
Ref 30.00 dBm

10 dB/div  
Log

Mkr1 849.210 MHz  
-34.529 dBm

Center 849.000 MHz  
#Res BW 15 kHz

Span 2.000 MHz  
#Sweep 1.00 s (1001 pts)

Auto Tune

Center Freq  
849.000000 MHz

Start Freq  
848.000000 MHz

Stop Freq  
850.000000 MHz

CF Step  
200.000 kHz  
Man

Freq Offset  
0 Hz

Frequency

Auto Tune

Center Freq  
849.000000 MHz

Start Freq  
848.000000 MHz

Stop Freq  
850.000000 MHz

CF Step  
200.000 kHz  
Man

Freq Offset  
0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN: AUTO 05:03:14 PM Dec 03, 2015

Center Freq 849.000000 MHz Avg Type: RMS  
PNO: Wide IFGain: Low Trig: Free Run #Atten: 36 dB  
TYPE M DET A A A A A A

Ref Offset 7.7 dB  
Ref 30.00 dBm

Mkr1 849.030 MHz  
-36.942 dBm

10 dB/div  
Log

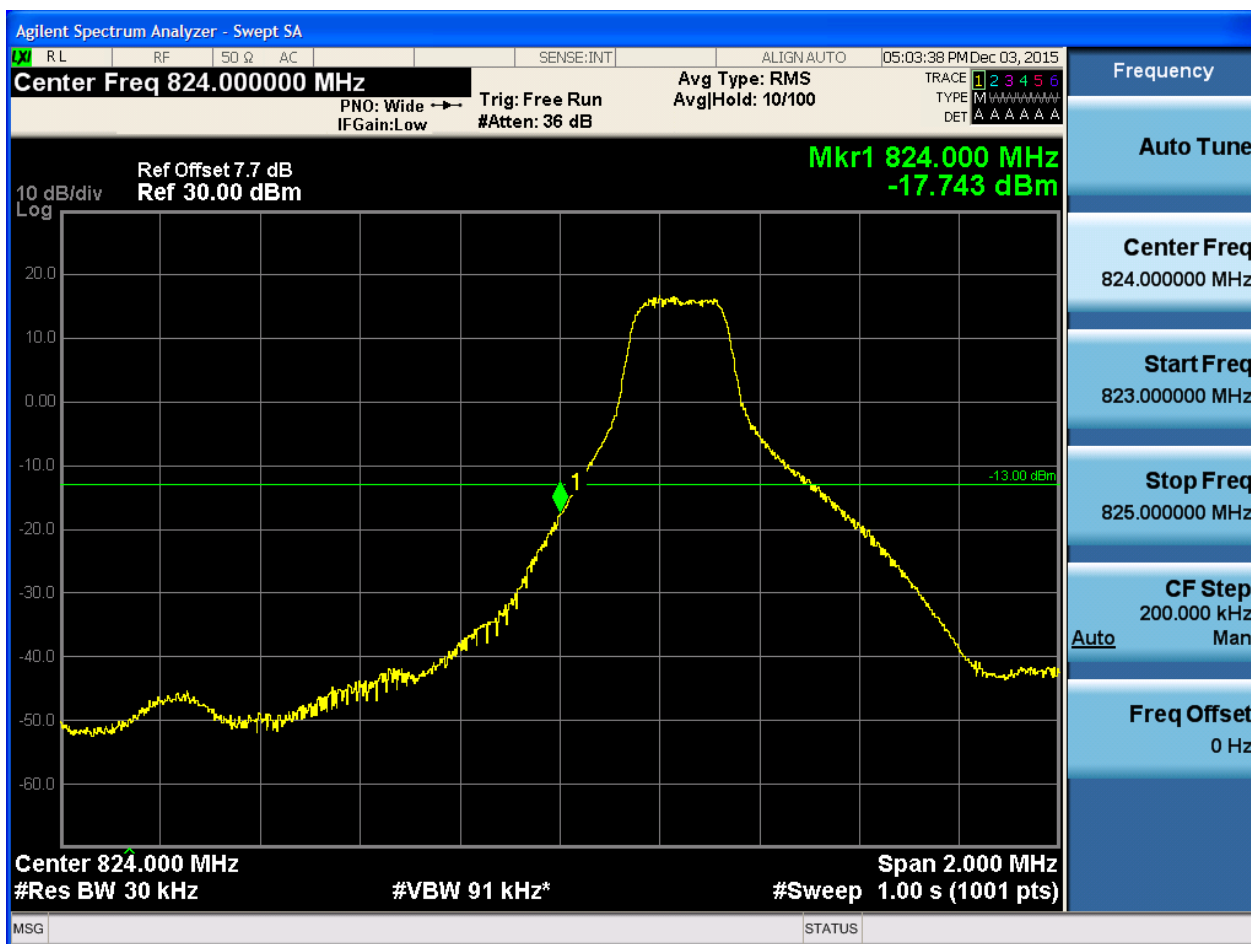
Center 849.000 MHz  
#Res BW 15 kHz  
#VBW 43 kHz\*  
Span 2.000 MHz  
#Sweep 1.00 s (1001 pts)

MSG STATUS

### 5.1.1.2.2 Test Bandwidth = 3

#### 5.1.1.2.2.1 Test Channel = LCH

##### 5.1.1.2.2.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 824.000000 MHz

Ref Offset 7.7 dB  
Ref 30.00 dBm

10 dB/div  
Log

Msg: PNO: Wide → Trig: Free Run  
IFGain: Low #Atten: 36 dB

Avg Type: RMS  
Avg/Hold: 9/100

ALIGN AUTO 05:03:53 PM Dec 03, 2015

TRACE 1 2 3 4 5 6  
TYPE M W W W W W W W  
DET A A A A A A

Mkr1 823.750 MHz  
-47.413 dBm

-13.00 dBm

Center 824.000 MHz  
#Res BW 30 kHz

#VBW 91 kHz\*

Span 2.000 MHz  
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq  
824.000000 MHz

Start Freq  
823.000000 MHz

Stop Freq  
825.000000 MHz

CF Step  
200.000 kHz  
Man

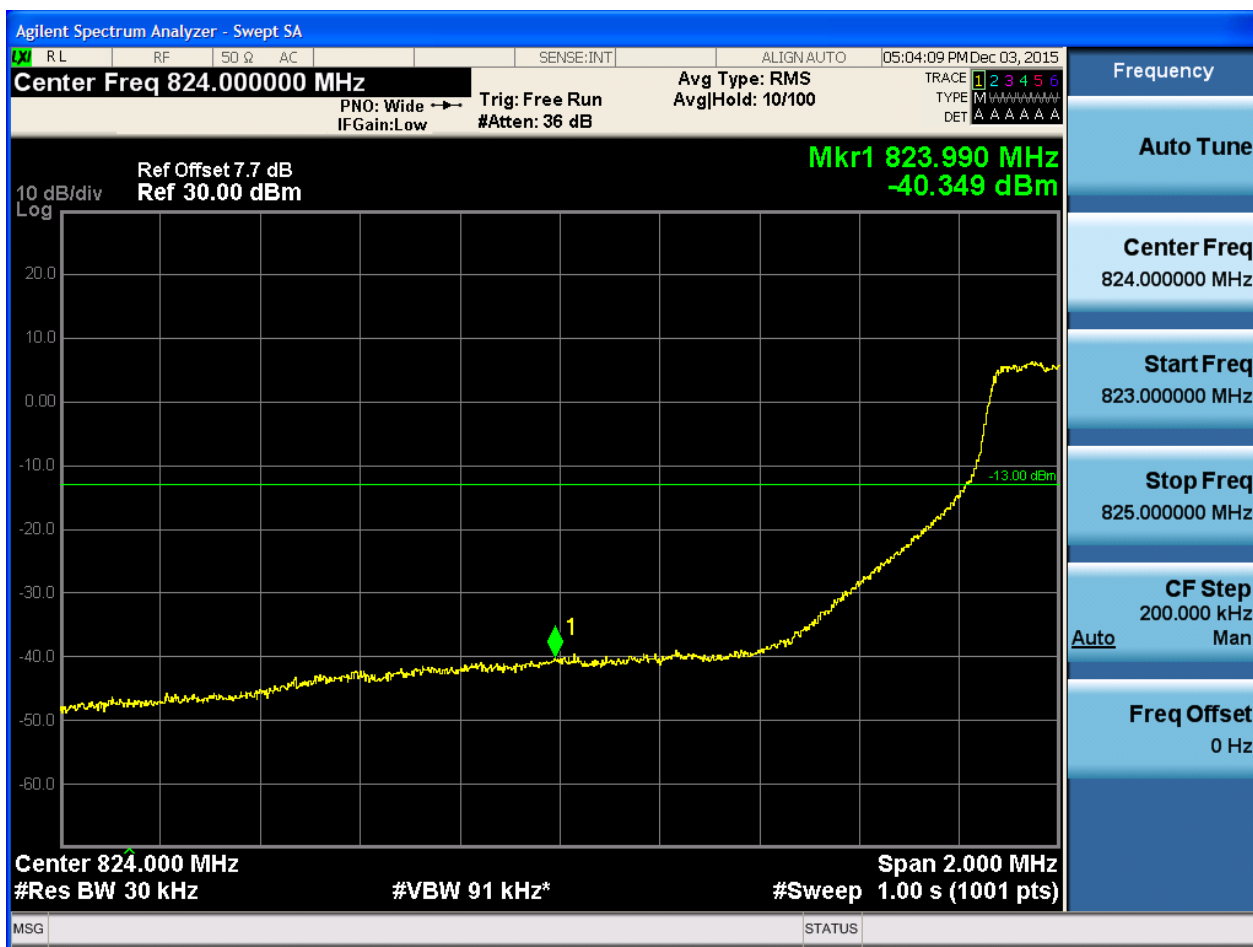
Auto

Freq Offset  
0 Hz

MSG STATUS

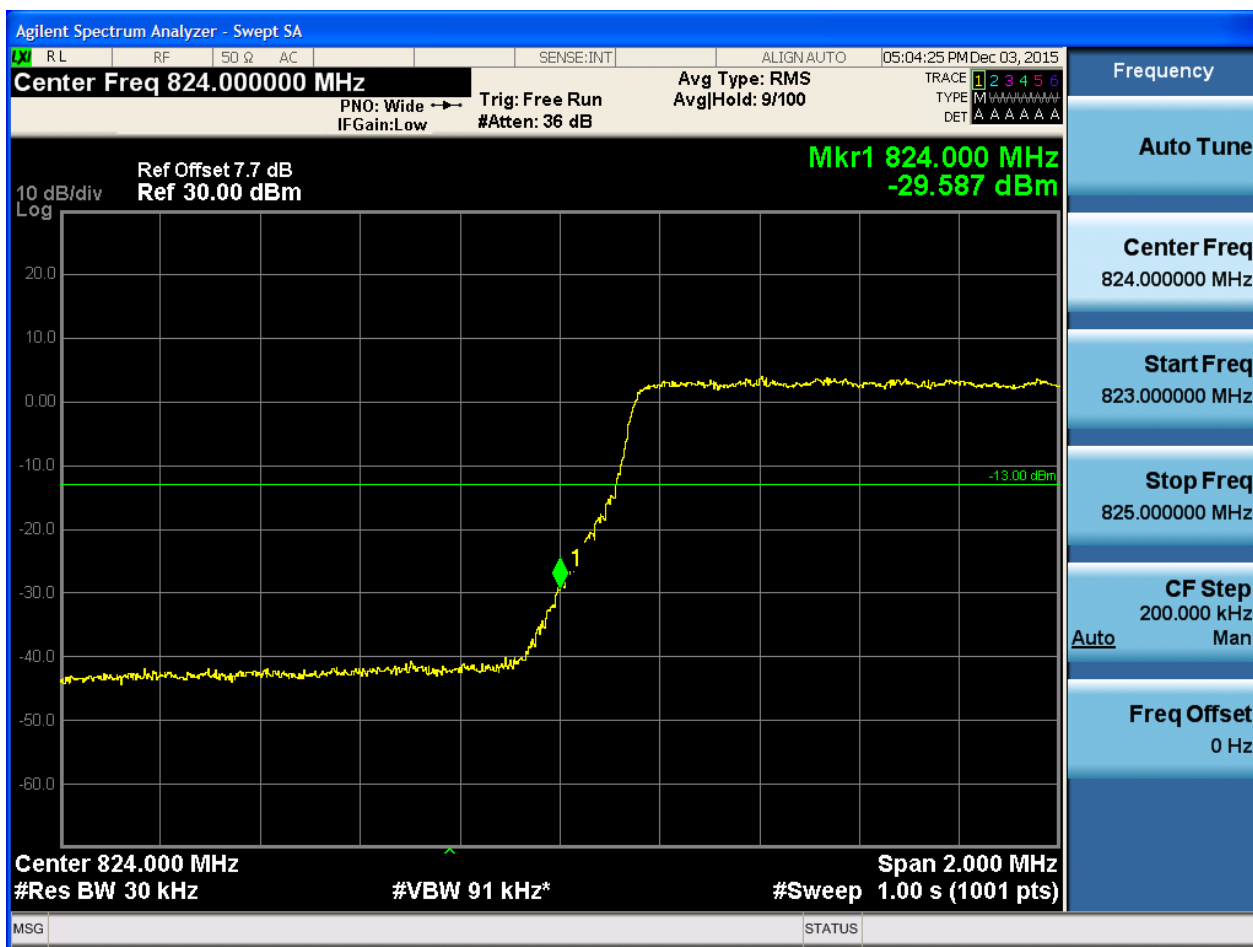


## 5.1.1.2.2.1.3 Test RB = RB8#4





## 5.1.1.2.2.1.4 Test RB = RB15#0





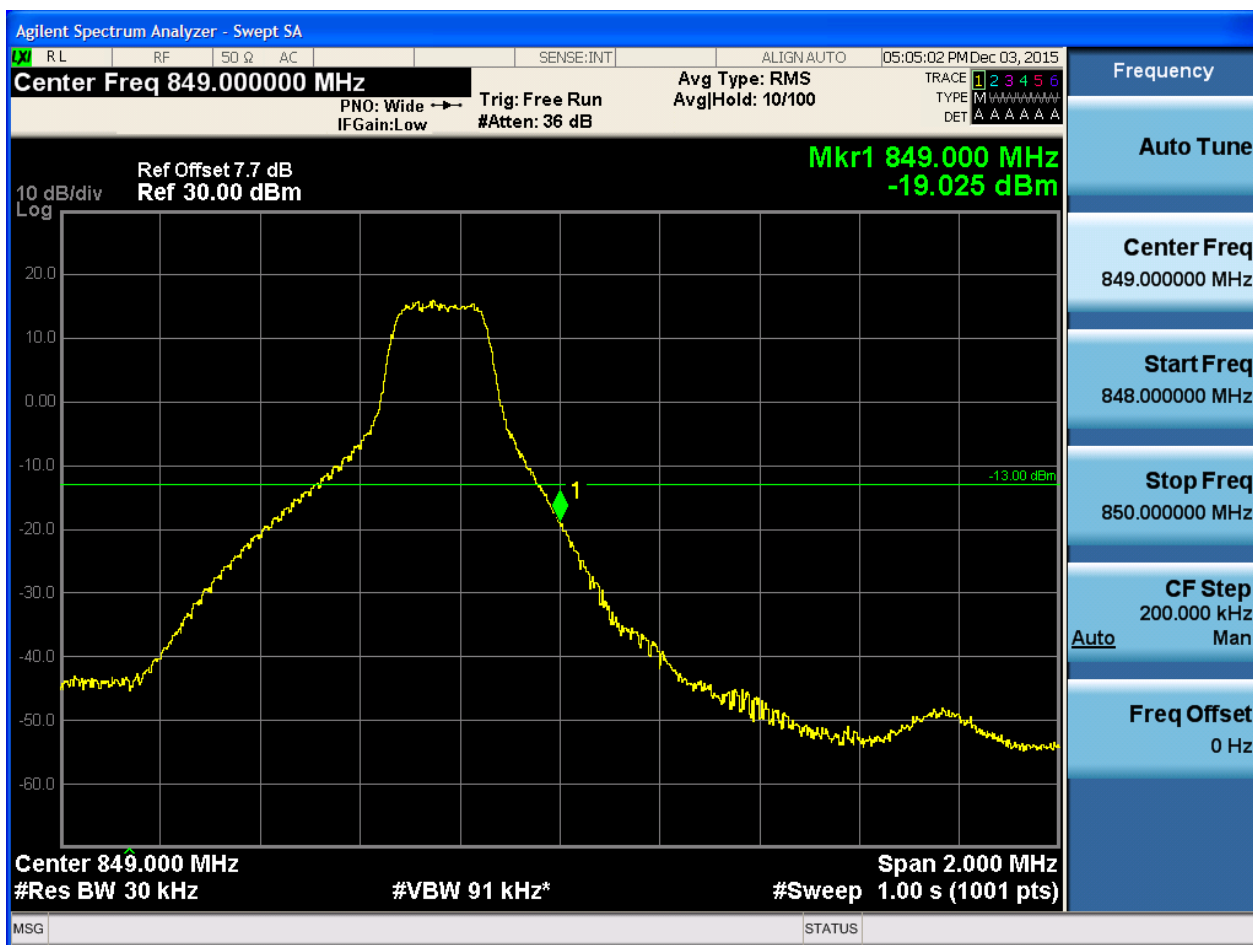
## 5.1.1.2.2.2 Test Channel = HCH

## 5.1.1.2.2.2.1 Test RB = RB1#0





## 5.1.1.2.2.2 Test RB = RB1#14





## 5.1.1.2.2.3 Test RB = RB8#4





## 5.1.1.2.2.4 Test RB = RB15#0

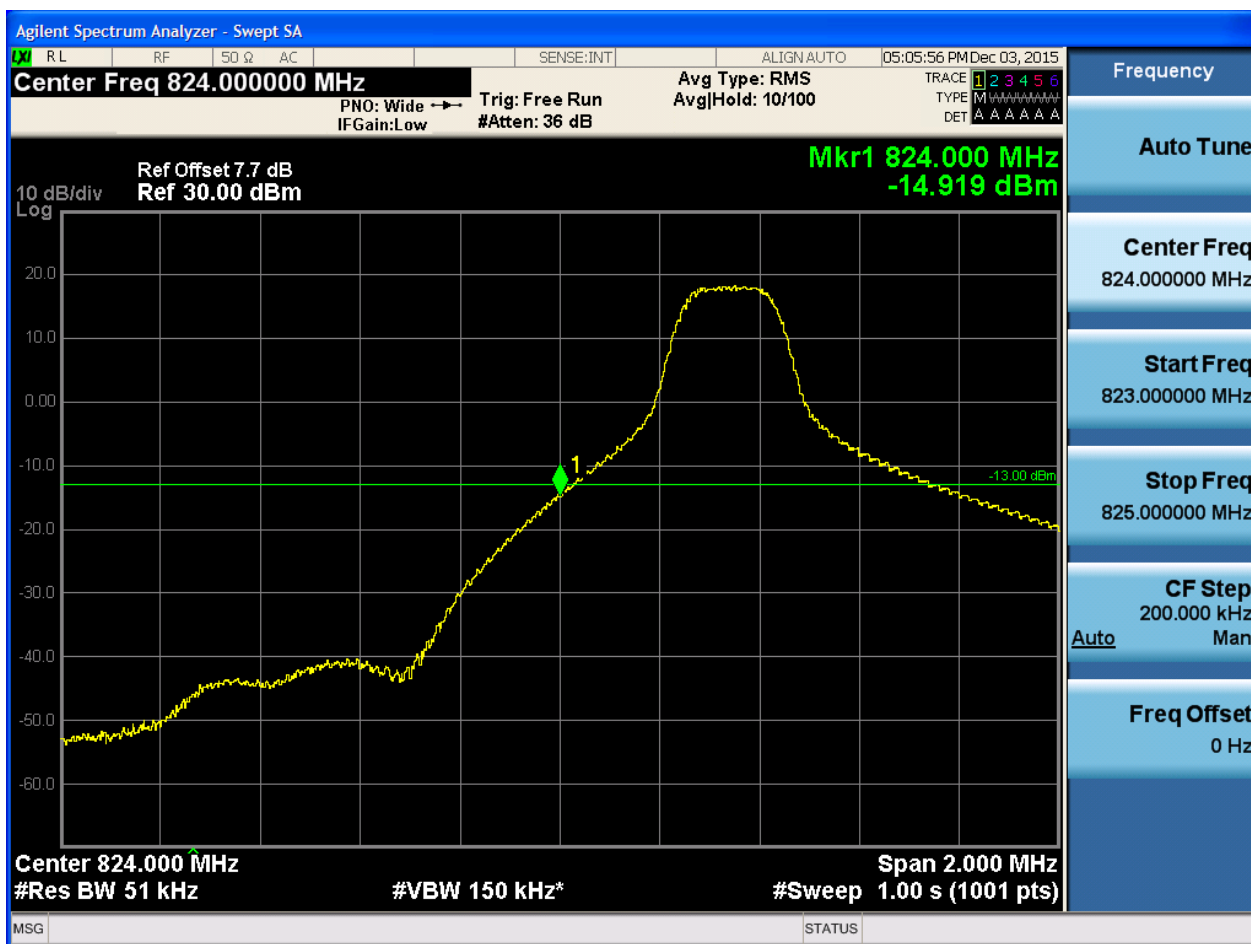




## 5.1.1.2.3 Test Bandwidth = 5

## 5.1.1.2.3.1 Test Channel = LCH

## 5.1.1.2.3.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 824.000000 MHz

Ref Offset 7.7 dB  
Ref 30.00 dBm

10 dB/div  
Log

Msg: PNO: Wide → Trig: Free Run  
IFGain: Low #Atten: 36 dB

Avg Type: RMS  
Avg|Hold: 10/100

TRACE 1 2 3 4 5 6  
TYPE M M M M M M M M  
DET A A A A A A

05:06:13 PM Dec 03, 2015

Frequency

Auto Tune

Center Freq  
824.000000 MHz

Start Freq  
823.000000 MHz

Stop Freq  
825.000000 MHz

CF Step  
200.000 kHz  
Auto Man

Freq Offset  
0 Hz

Mkr1 823.970 MHz  
-53.109 dBm

-13.00 dBm

Center 824.000 MHz  
#Res BW 51 kHz

#VBW 150 kHz\*

Span 2.000 MHz  
#Sweep 1.00 s (1001 pts)

MSG STATUS

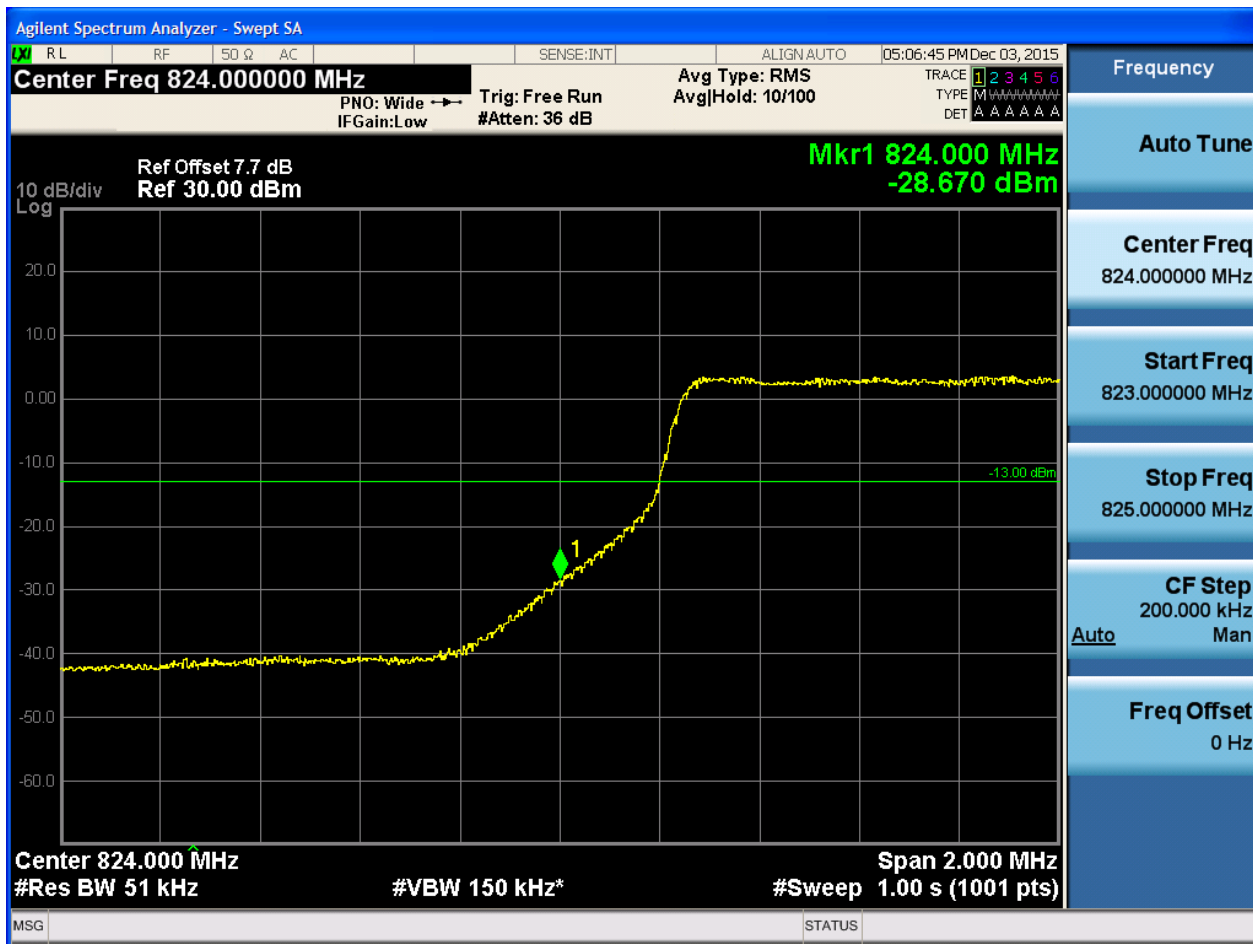


## 5.1.1.2.3.1.3 Test RB = RB12#6



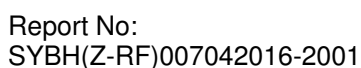


## 5.1.1.2.3.1.4 Test RB = RB25#0



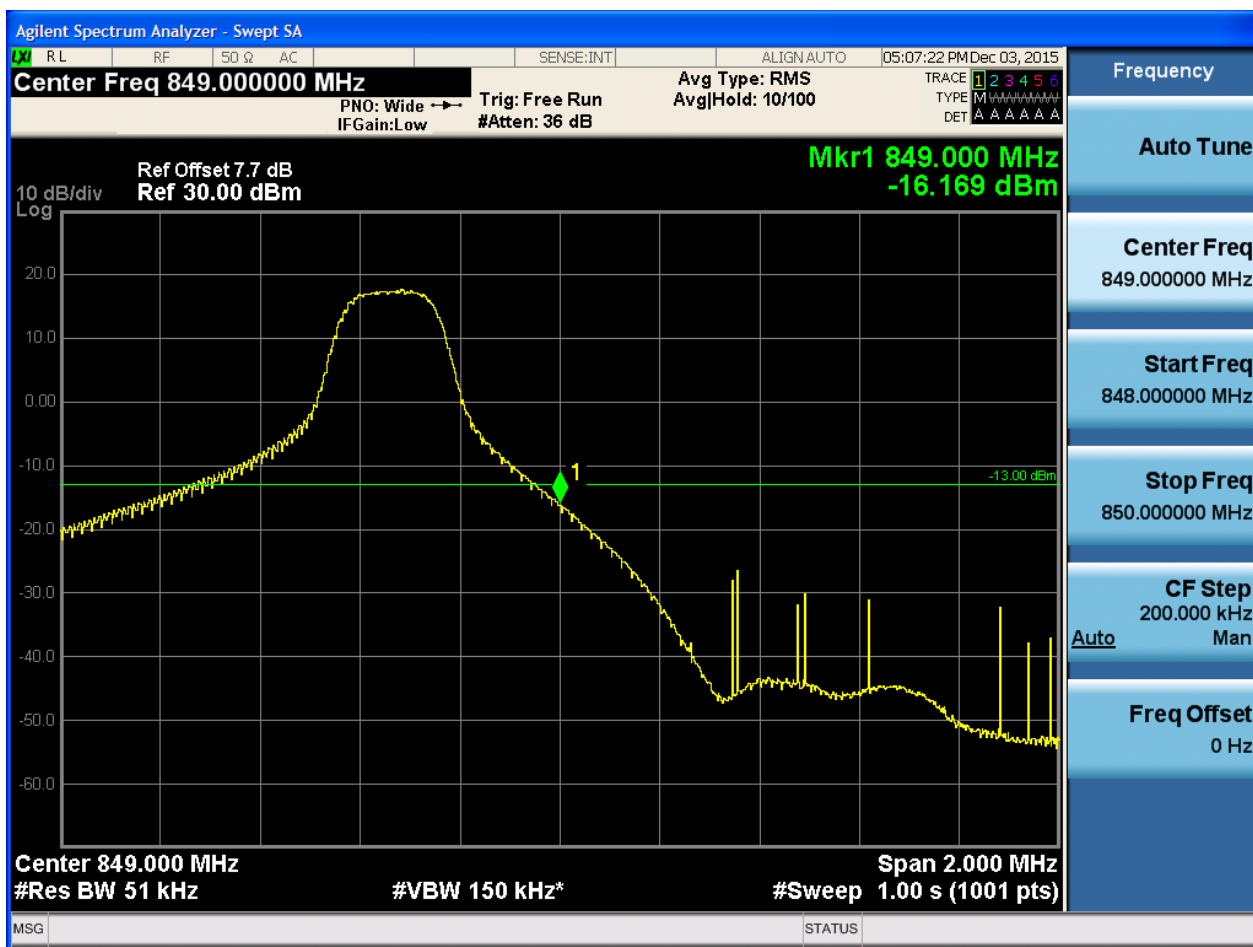


#### 5.1.1.2.3.2.1 Test RB = RB1#0



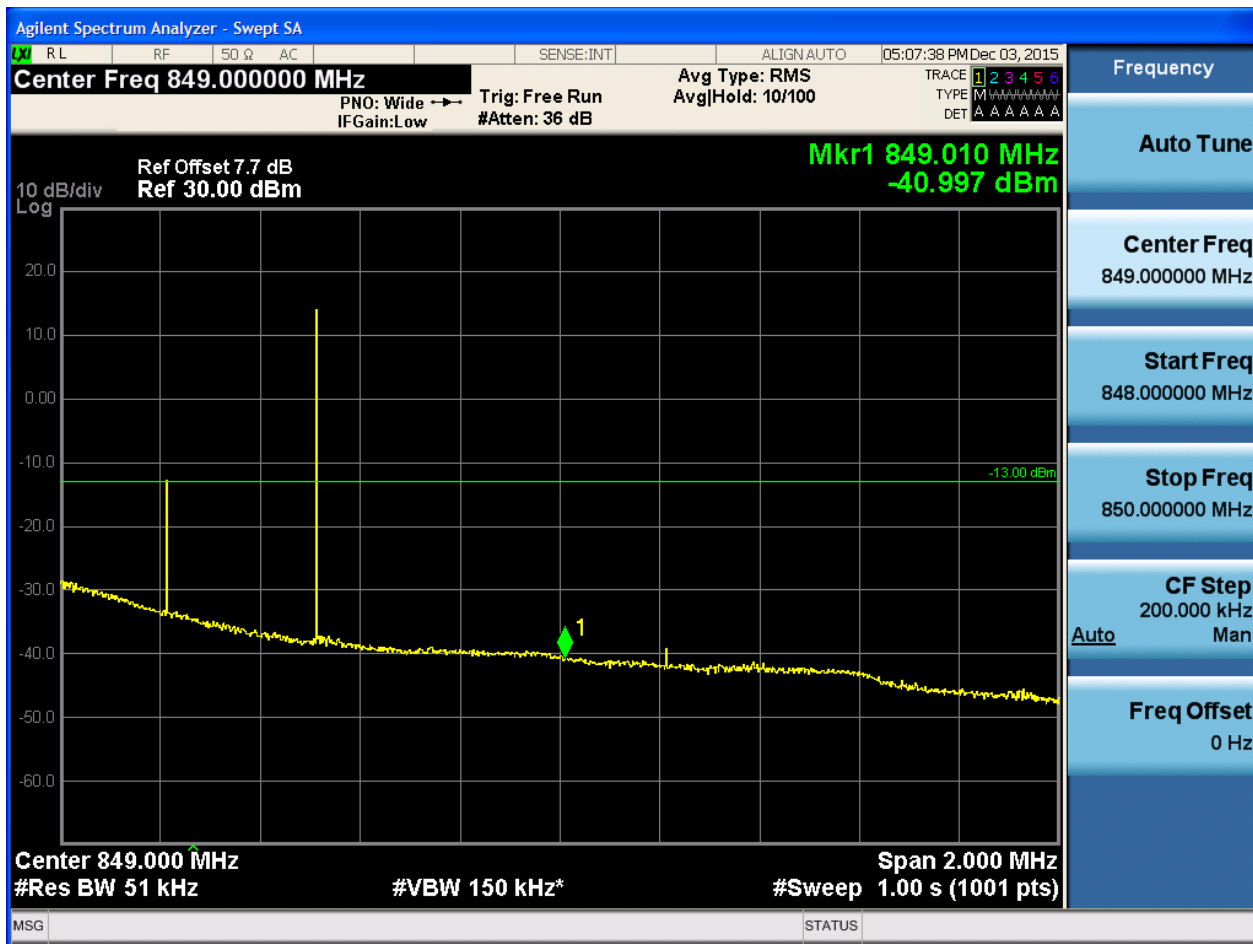


## 5.1.1.2.3.2.2 Test RB = RB1#24





## 5.1.1.2.3.2.3 Test RB = RB12#6





## 5.1.1.2.3.2.4 Test RB = RB25#0

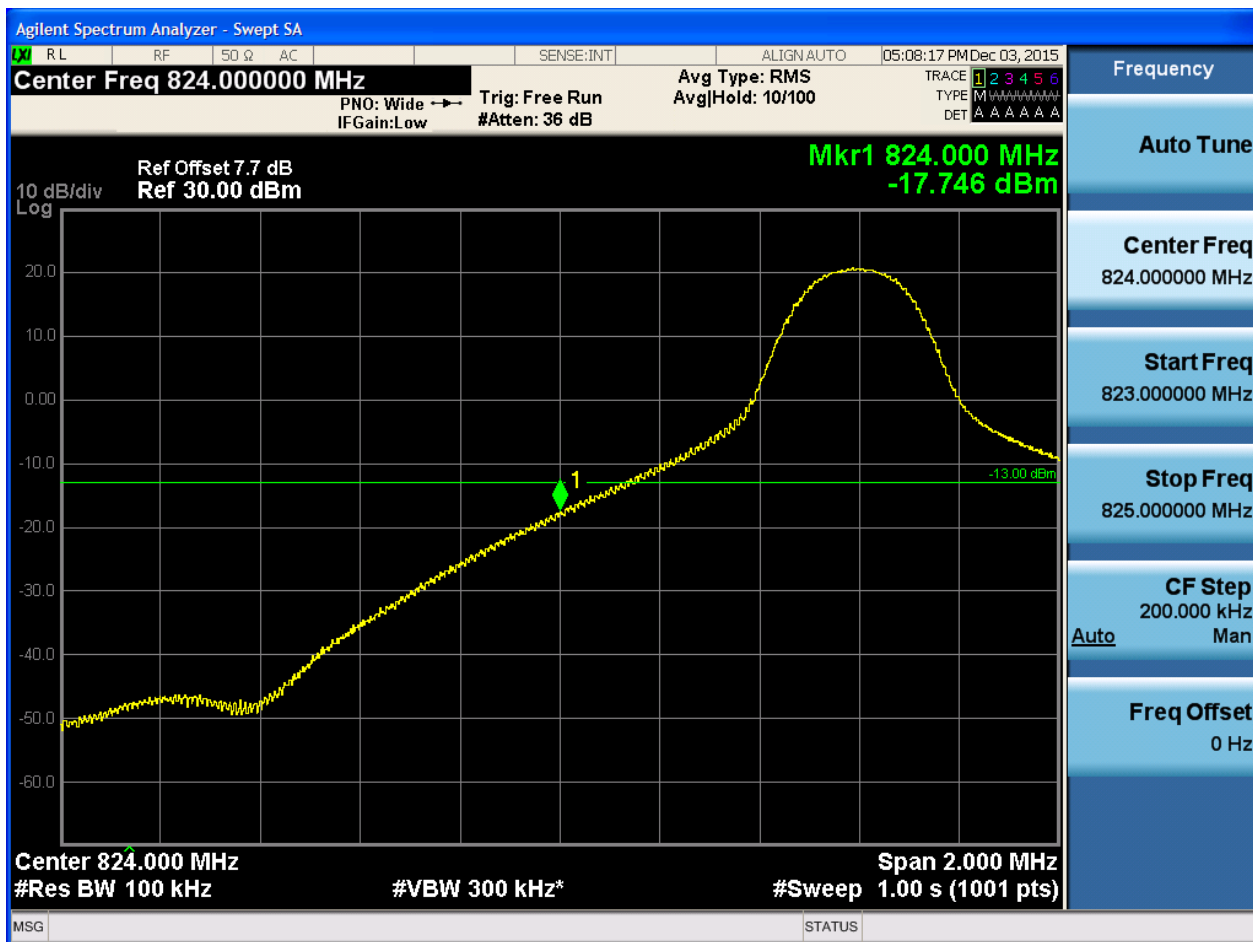




## 5.1.1.2.4 Test Bandwidth = 10

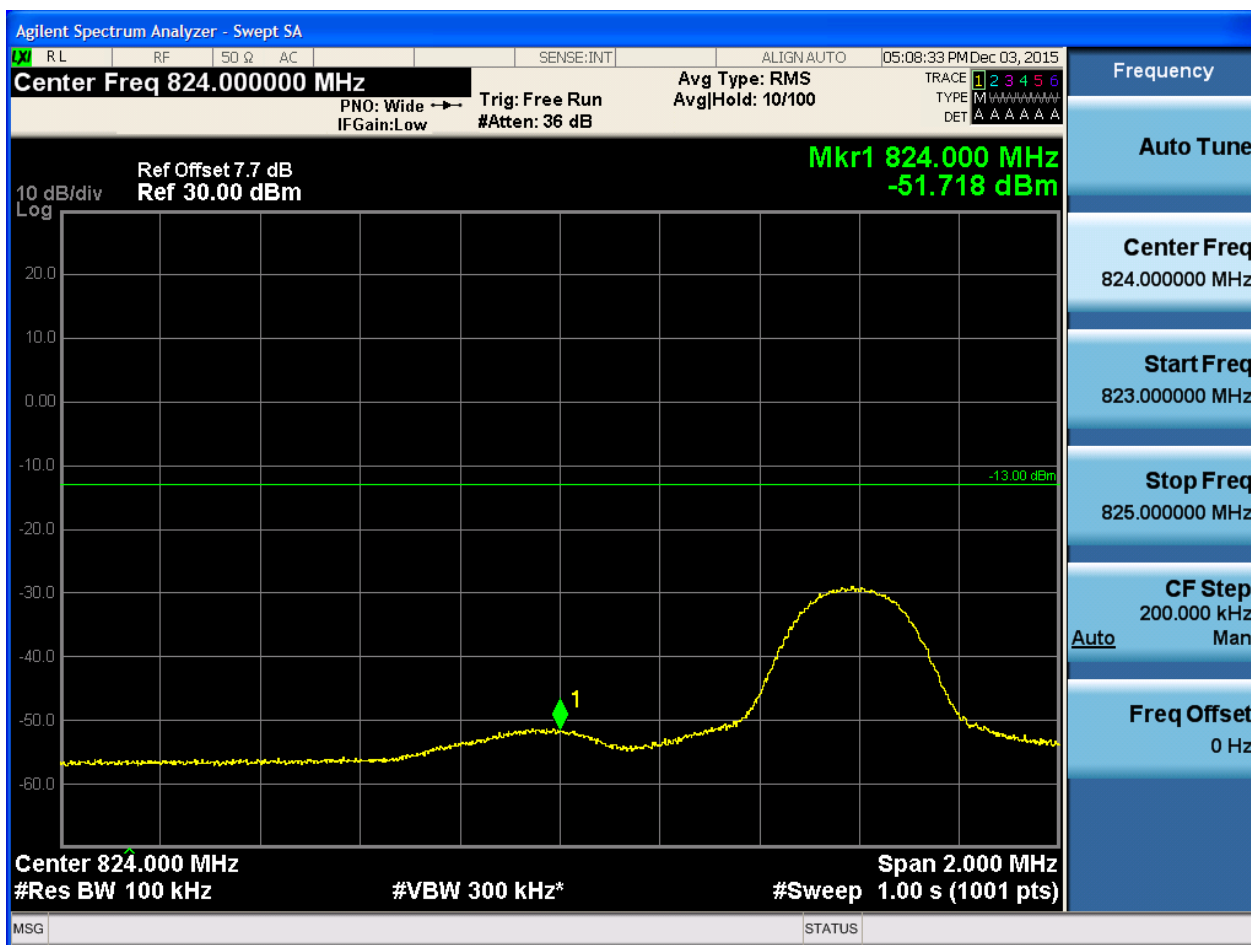
## 5.1.1.2.4.1 Test Channel = LCH

## 5.1.1.2.4.1.1 Test RB = RB1#0



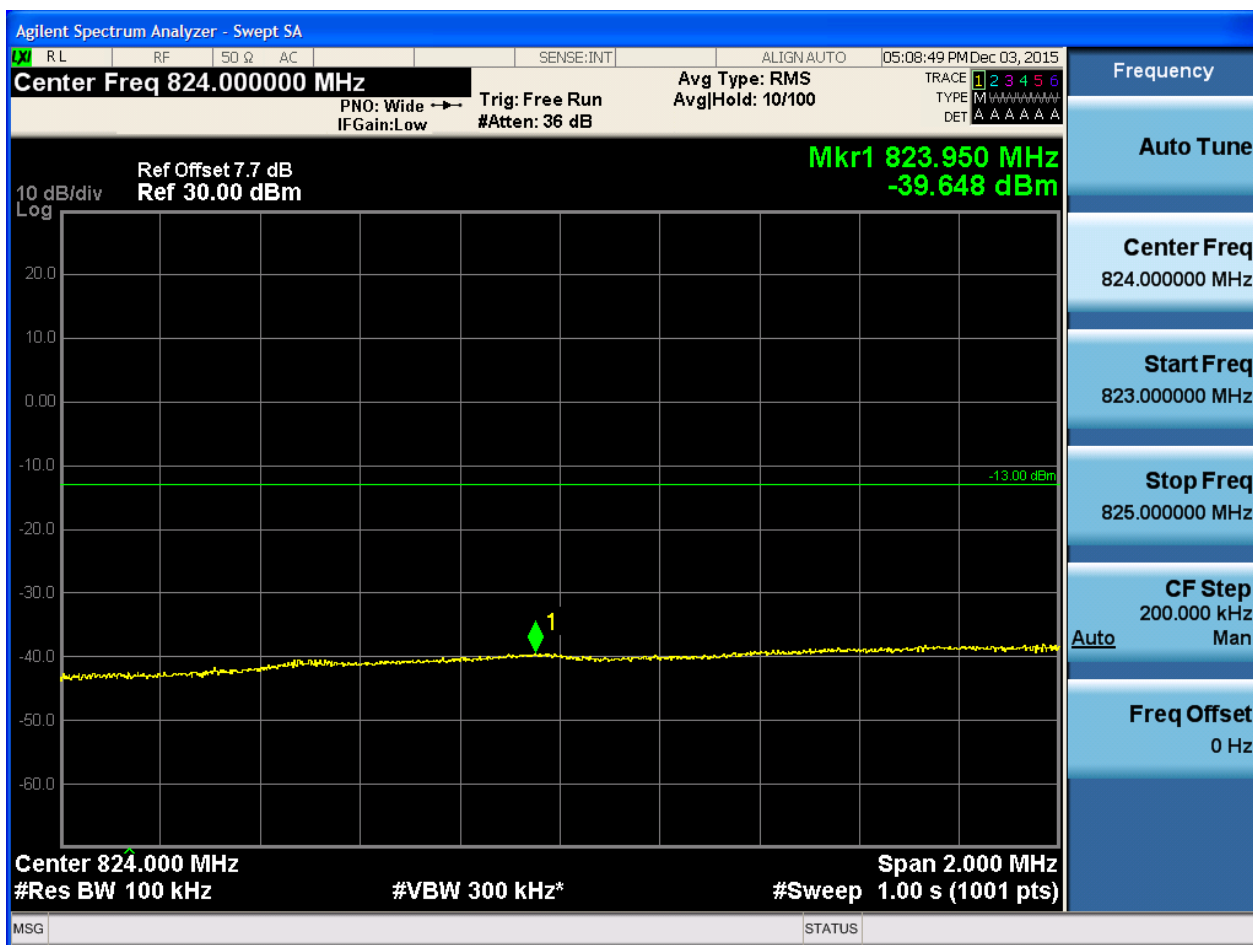


## 5.1.1.2.4.1.2 Test RB = RB1#49





## 5.1.1.2.4.1.3 Test RB = RB25#13



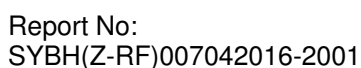


## 5.1.1.2.4.1.4 Test RB = RB50#0



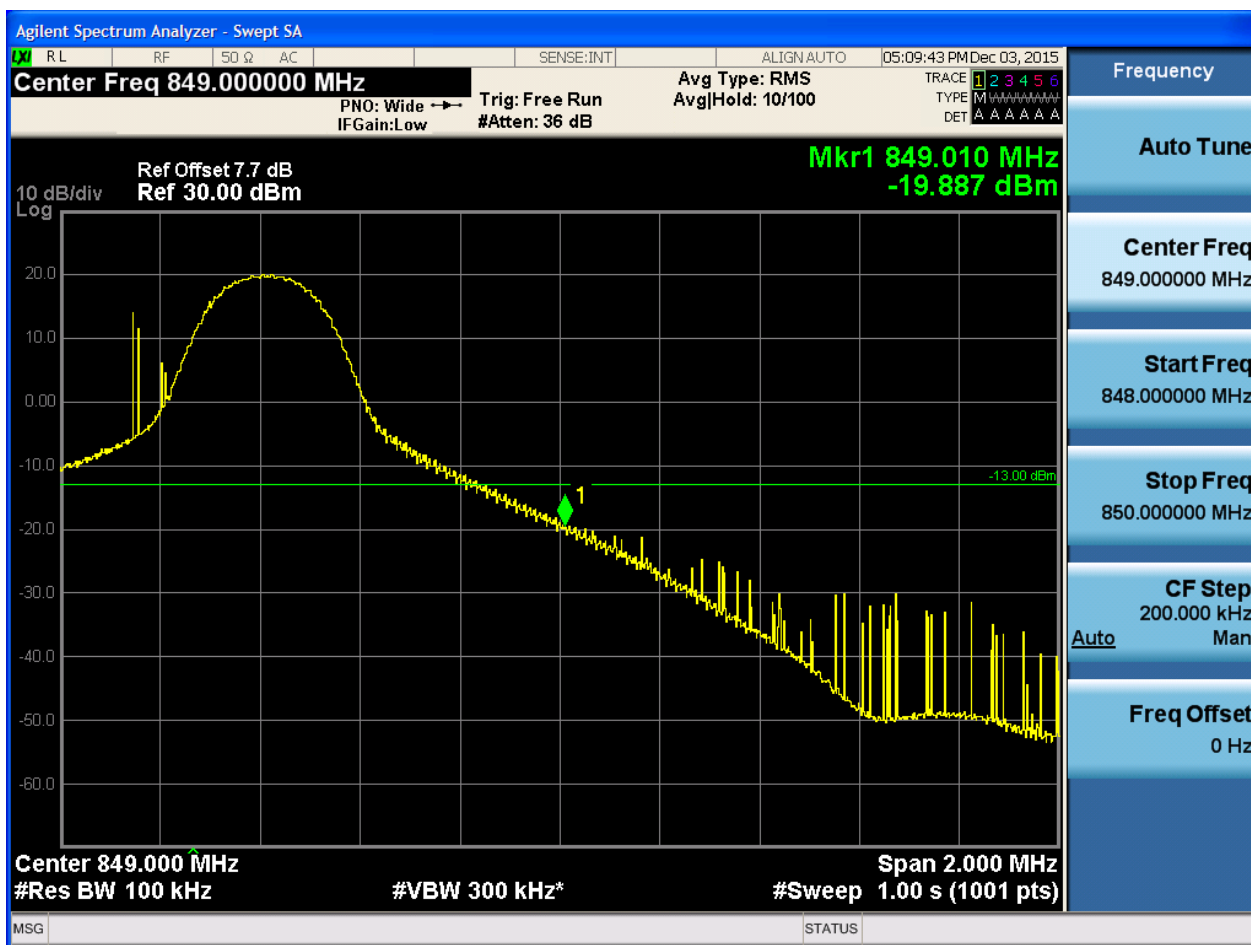


#### 5.1.1.2.4.2.1 Test RB = RB1#0





## 5.1.1.2.4.2.2 Test RB = RB1#49





## 5.1.1.2.4.2.3 Test RB = RB25#13





## 5.1.1.2.4.2.4 Test RB = RB50#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  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (Span / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

### Part I - Test Plots

#### 6.1 For LTE

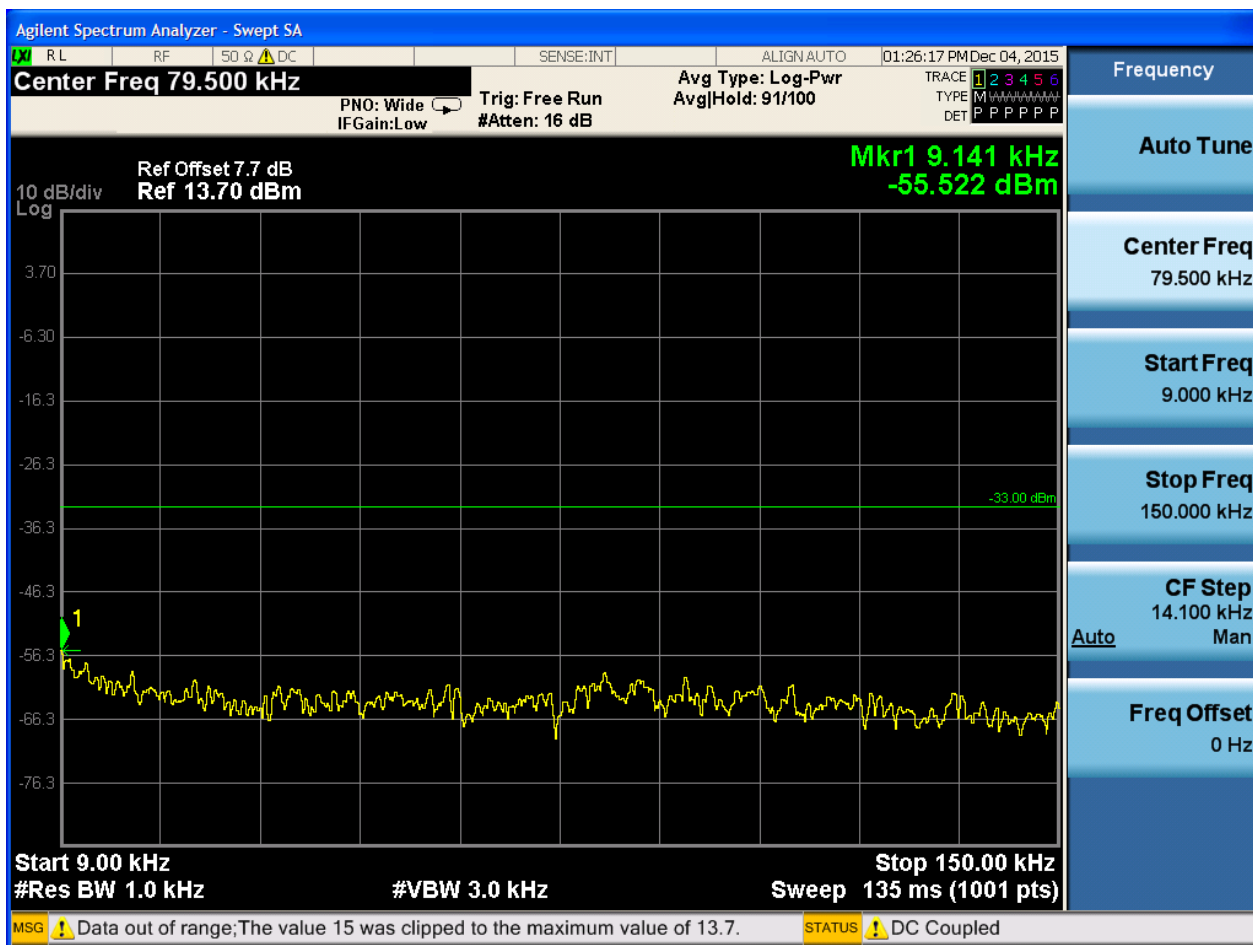
##### 6.1.1 Test Band = BAND5

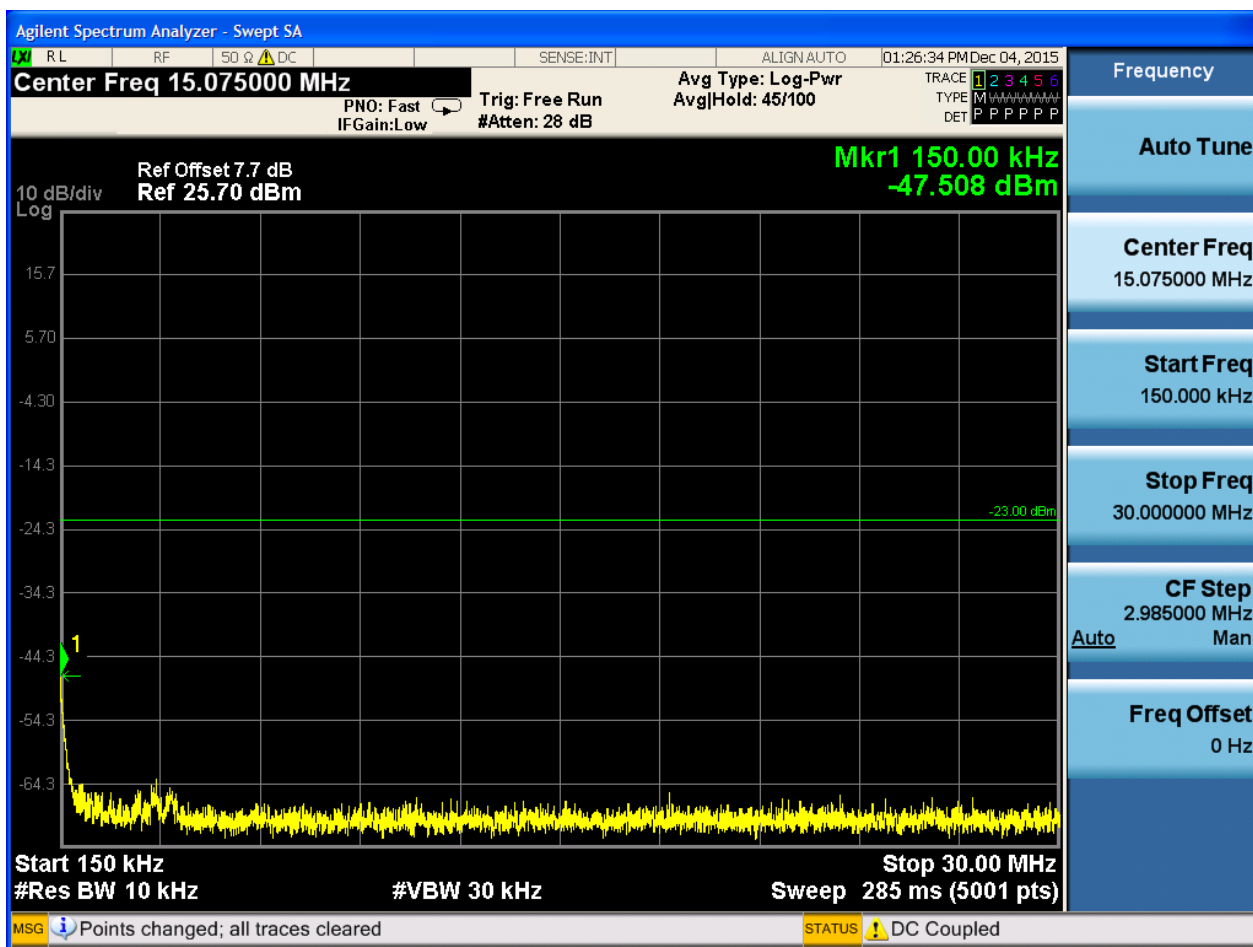
##### 6.1.1.1 Test Mode = LTE/TM1

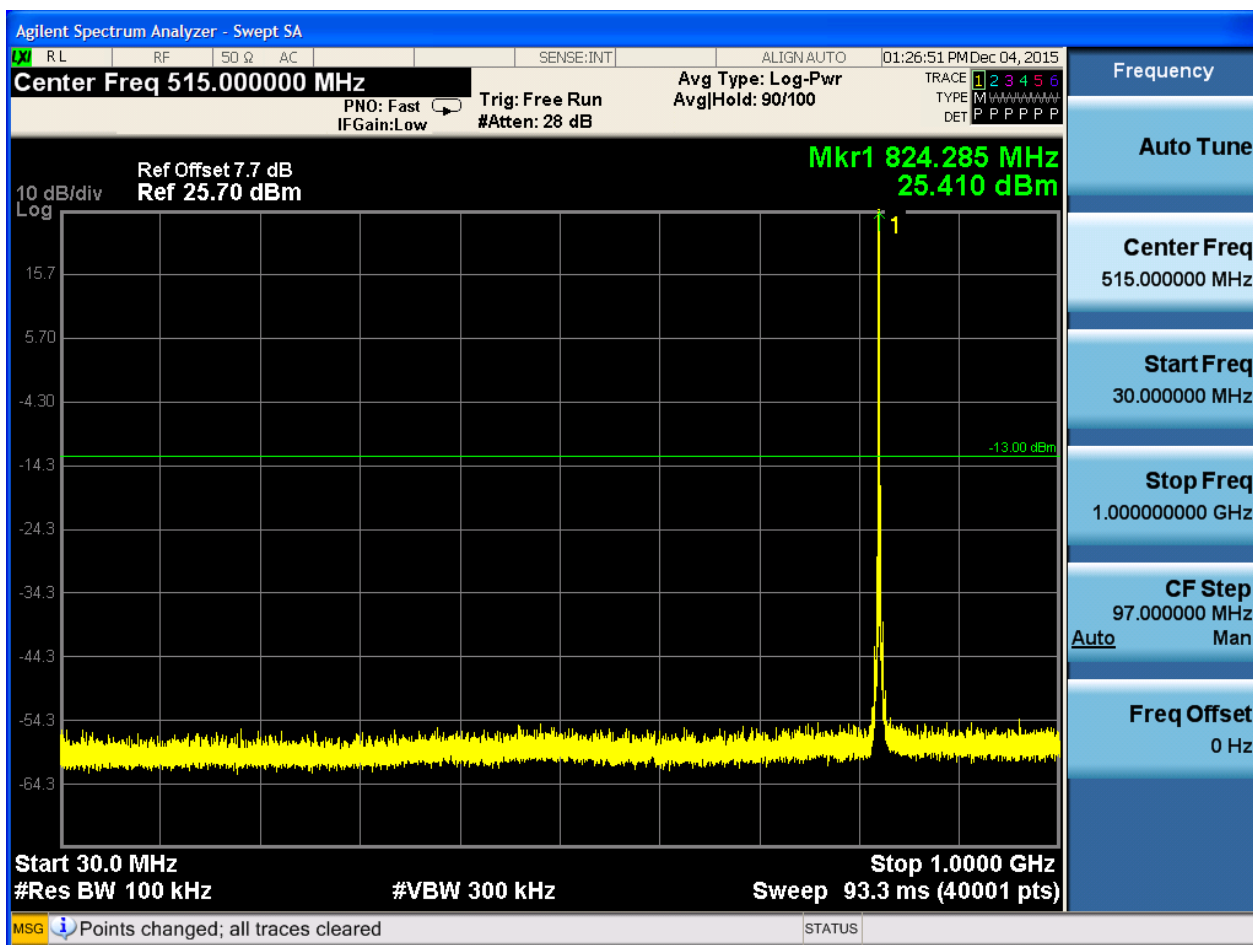
##### 6.1.1.1.1 Test Bandwidth = 1.4

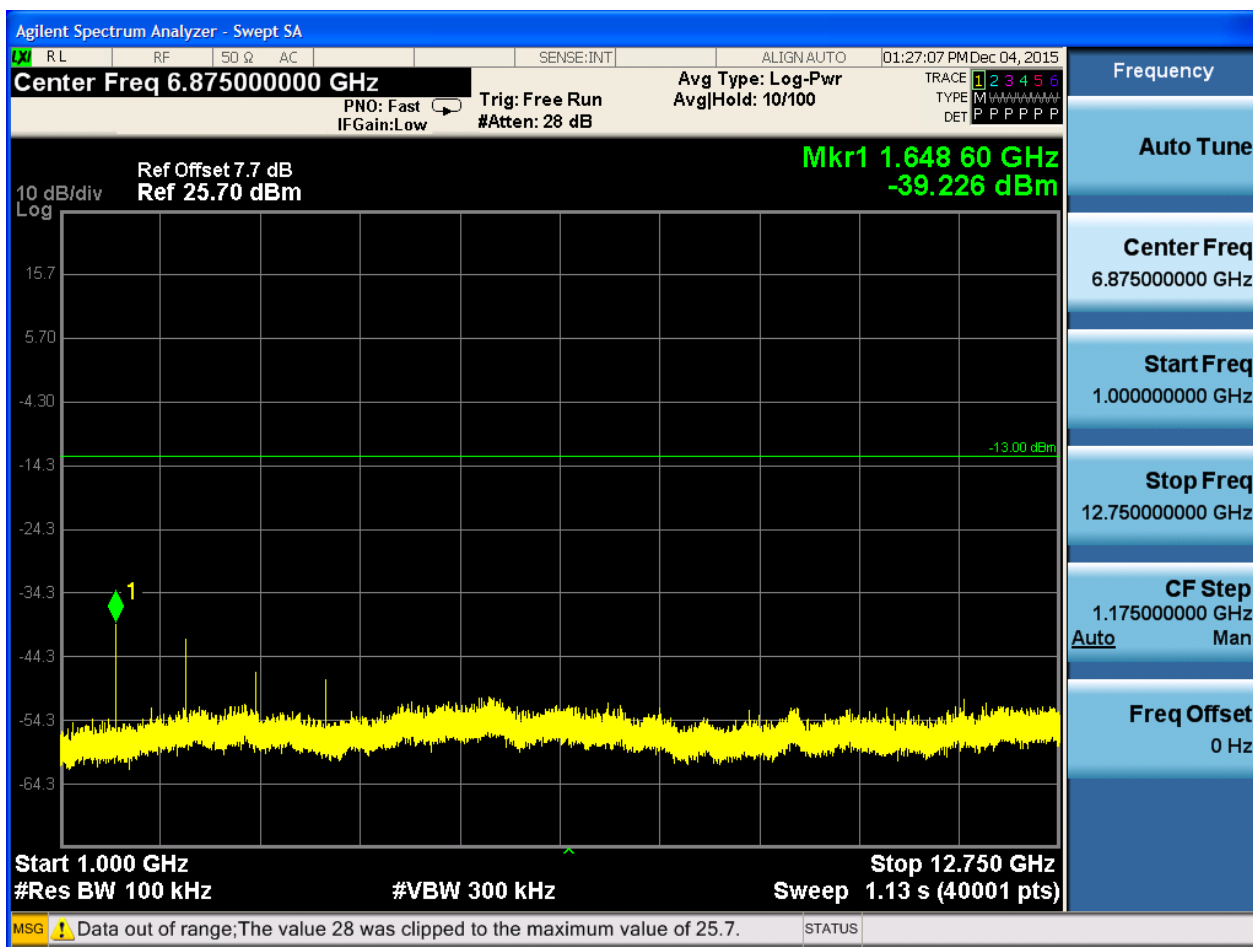
##### 6.1.1.1.1.1 Test Channel = LCH

##### 6.1.1.1.1.1.1 Test RB = RB1#0





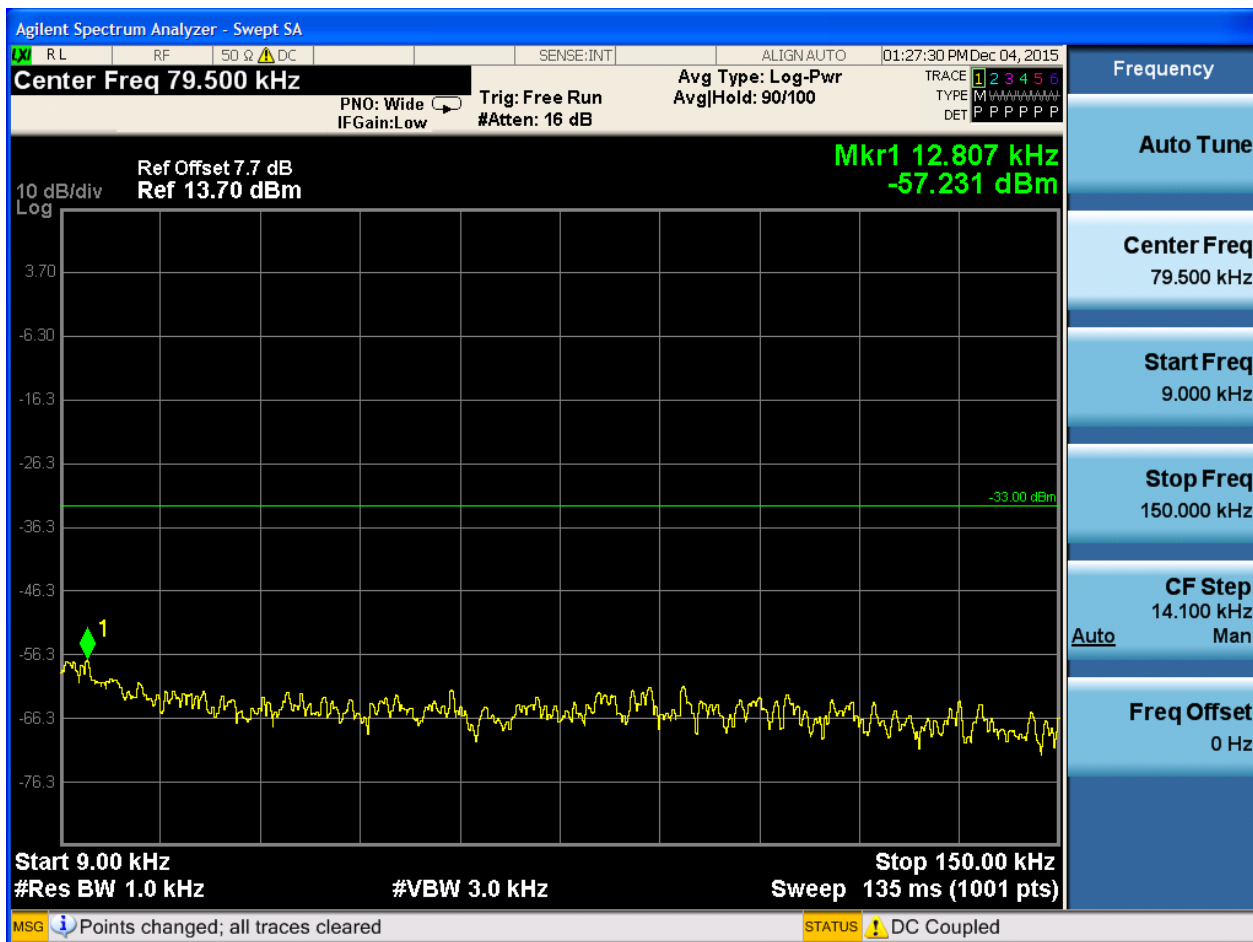


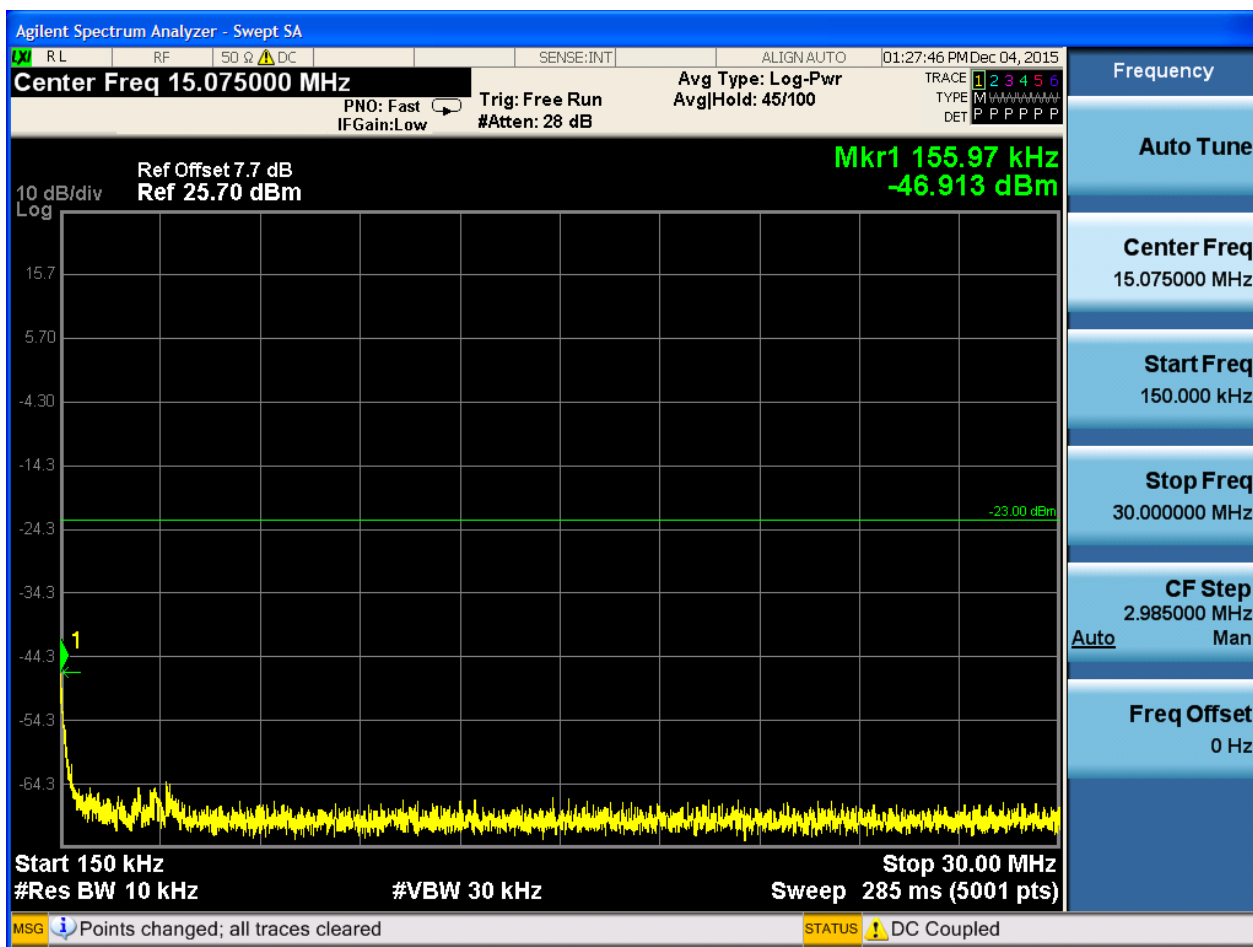


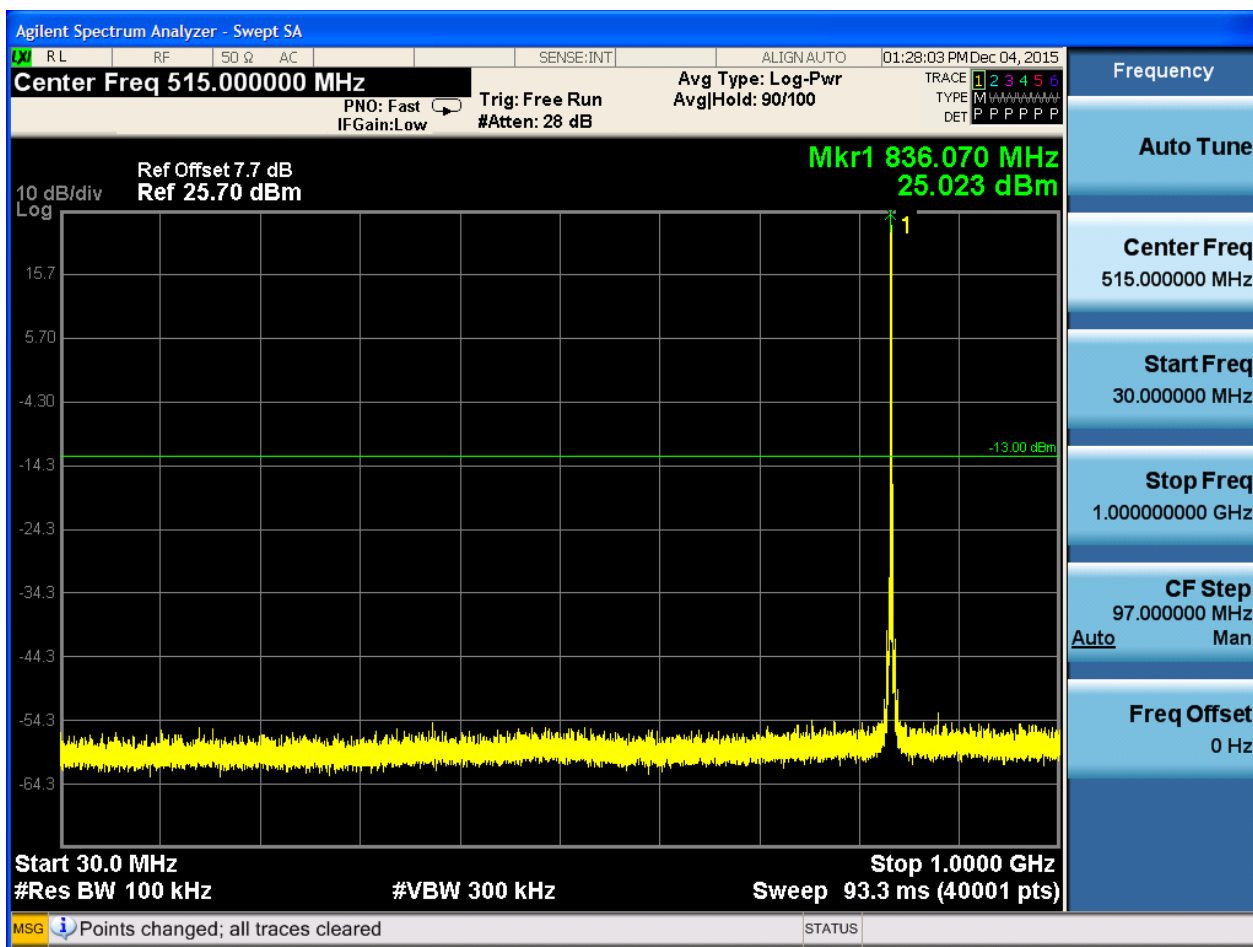


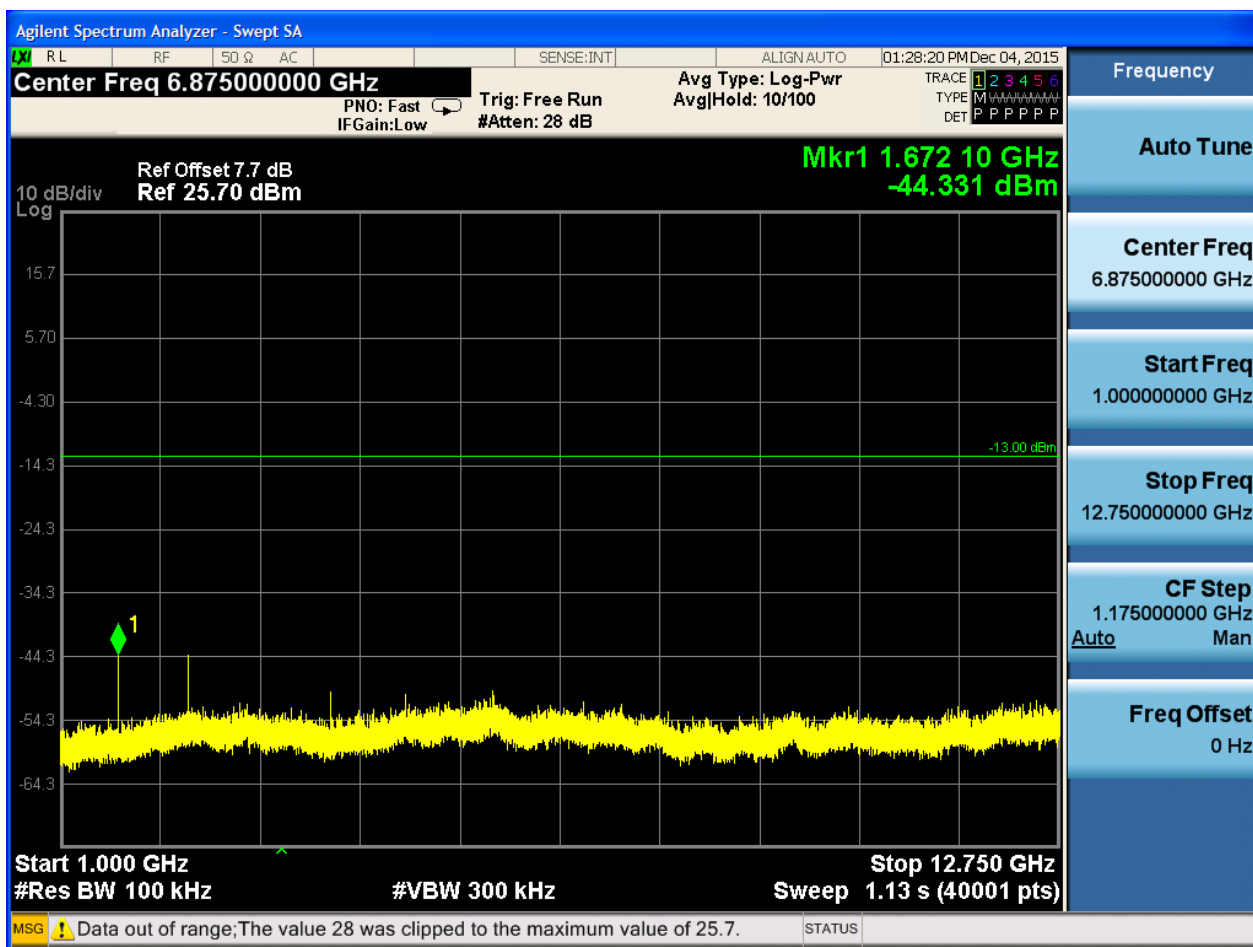
## 6.1.1.1.2 Test Channel = MCH

## 6.1.1.1.2.1 Test RB = RB1#0











## 6.1.1.1.1.3 Test Channel = HCH

## 6.1.1.1.1.3.1 Test RB = RB1#0

