



# 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] | EIRP [dBm] | Limit [dBm] | Verdict |
|----------------|-------------|----------------|--------------|---------|----------------|------------|-------------|---------|
| BAND38         | LTE/TM<br>1 | 5              | LCH          | RB1#0   | 23.14          | 23.84      | 33          | PASS    |
|                |             |                |              | RB1#13  | 23.26          | 23.96      | 33          | PASS    |
|                |             |                |              | RB1#24  | 22.23          | 22.93      | 33          | PASS    |
|                |             |                |              | RB12#0  | 22.11          | 22.81      | 33          | PASS    |
|                |             |                |              | RB12#6  | 22.22          | 22.92      | 33          | PASS    |
|                |             |                |              | RB12#13 | 21.98          | 22.68      | 33          | PASS    |
|                |             |                |              | RB25#0  | 22.1           | 22.8       | 33          | PASS    |
|                |             |                | MCH          | RB1#0   | 23.12          | 23.82      | 33          | PASS    |
|                |             |                |              | RB1#13  | 23.16          | 23.86      | 33          | PASS    |
|                |             |                |              | RB1#24  | 22.28          | 22.98      | 33          | PASS    |
|                |             |                |              | RB12#0  | 22.12          | 22.82      | 33          | PASS    |
|                |             |                |              | RB12#6  | 22.15          | 22.85      | 33          | PASS    |
|                |             |                |              | RB12#13 | 21.96          | 22.66      | 33          | PASS    |
|                |             |                |              | RB25#0  | 22.12          | 22.82      | 33          | PASS    |

| Test Band(LTE) | Test Mode | Test Bandwidth | Test Channel | Test RB | Measured [dBm] | EIRP [dBm] | Limit [dBm] | Verdict |
|----------------|-----------|----------------|--------------|---------|----------------|------------|-------------|---------|
|                |           |                | HCH          | RB1#0   | 23.48          | 24.18      | 33          | PASS    |
|                |           |                |              | RB1#13  | 23.61          | 24.31      | 33          | PASS    |
|                |           |                |              | RB1#24  | 22.47          | 23.17      | 33          | PASS    |
|                |           |                |              | RB12#0  | 22.51          | 23.21      | 33          | PASS    |
|                |           |                |              | RB12#6  | 22.49          | 23.19      | 33          | PASS    |
|                |           |                |              | RB12#13 | 22.35          | 23.05      | 33          | PASS    |
|                |           |                |              | RB25#0  | 22.4           | 23.1       | 33          | PASS    |
|                |           | 10             | LCH          | RB1#0   | 22.44          | 23.14      | 33          | PASS    |
|                |           |                |              | RB1#25  | 23.24          | 23.94      | 33          | PASS    |
|                |           |                |              | RB1#49  | 22.89          | 23.59      | 33          | PASS    |
|                |           |                |              | RB25#0  | 22.19          | 22.89      | 33          | PASS    |
|                |           |                |              | RB25#13 | 22.16          | 22.86      | 33          | PASS    |
|                |           |                |              | RB25#25 | 22.04          | 22.74      | 33          | PASS    |
|                |           |                |              | RB50#0  | 22.04          | 22.74      | 33          | PASS    |
|                |           |                | MCH          | RB1#0   | 22.39          | 23.09      | 33          | PASS    |
|                |           |                |              | RB1#25  | 23.17          | 23.87      | 33          | PASS    |
|                |           |                |              | RB1#49  | 22.9           | 23.6       | 33          | PASS    |

| Test Band(LTE) | Test Mode | Test Bandwidth | Test Channel | Test RB | Measured [dBm] | EIRP [dBm] | Limit [dBm] | Verdict |
|----------------|-----------|----------------|--------------|---------|----------------|------------|-------------|---------|
|                |           |                |              | RB25#0  | 22.18          | 22.88      | 33          | PASS    |
|                |           |                |              | RB25#13 | 22.17          | 22.87      | 33          | PASS    |
|                |           |                |              | RB25#25 | 22.09          | 22.79      | 33          | PASS    |
|                |           |                |              | RB50#0  | 22.03          | 22.73      | 33          | PASS    |
|                |           |                | HCH          | RB1#0   | 22.81          | 23.51      | 33          | PASS    |
|                |           |                |              | RB1#25  | 23.57          | 24.27      | 33          | PASS    |
|                |           |                |              | RB1#49  | 23.35          | 24.05      | 33          | PASS    |
|                |           |                |              | RB25#0  | 22.29          | 22.99      | 33          | PASS    |
|                |           |                | LCH          | RB25#13 | 22.34          | 23.04      | 33          | PASS    |
|                |           |                |              | RB25#25 | 22.38          | 23.08      | 33          | PASS    |
|                |           |                |              | RB50#0  | 22.27          | 22.97      | 33          | PASS    |
|                |           |                |              | 15      | RB1#0          | 22.31      | 23.01       | 33      |
|                |           |                | RB1#38       |         | 23.16          | 23.86      | 33          | PASS    |
|                |           |                | RB1#74       |         | 22.76          | 23.46      | 33          | PASS    |
|                |           | RB36#0         | 22.2         |         | 22.9           | 33         | PASS        |         |
|                |           | RB36#18        | 22.23        |         | 22.93          | 33         | PASS        |         |
|                |           | RB36#39        | 22.04        |         | 22.74          | 33         | PASS        |         |

| Test Band(LTE) | Test Mode | Test Bandwidth | Test Channel | Test RB | Measured [dBm] | EIRP [dBm] | Limit [dBm] | Verdict |
|----------------|-----------|----------------|--------------|---------|----------------|------------|-------------|---------|
|                |           |                |              | RB75#0  | 21.99          | 22.69      | 33          | PASS    |
|                |           |                | MCH          | RB1#0   | 22.31          | 23.01      | 33          | PASS    |
|                |           |                |              | RB1#38  | 23.12          | 23.82      | 33          | PASS    |
|                |           |                |              | RB1#74  | 22.87          | 23.57      | 33          | PASS    |
|                |           |                |              | RB36#0  | 22.29          | 22.99      | 33          | PASS    |
|                |           |                |              | RB36#18 | 22.22          | 22.92      | 33          | PASS    |
|                |           |                |              | RB36#39 | 22.13          | 22.83      | 33          | PASS    |
|                |           |                |              | RB75#0  | 22.17          | 22.87      | 33          | PASS    |
|                |           |                |              | HCH     | RB1#0          | 22.52      | 23.22       | 33      |
|                |           |                | RB1#38       |         | 23.54          | 24.24      | 33          | PASS    |
|                |           |                | RB1#74       |         | 23.29          | 23.99      | 33          | PASS    |
|                |           |                | RB36#0       |         | 22.31          | 23.01      | 33          | PASS    |
|                |           |                | RB36#18      |         | 22.35          | 23.05      | 33          | PASS    |
|                |           |                | RB36#39      |         | 22.31          | 23.01      | 33          | PASS    |
|                |           |                | RB75#0       |         | 22.31          | 23.01      | 33          | PASS    |
|                |           | 20             | LCH          |         | RB1#0          | 23.19      | 23.89       | 33      |
|                |           |                |              | RB1#50  | 23.21          | 23.91      | 33          | PASS    |



| Test Band(LTE) | Test Mode | Test Bandwidth | Test Channel | Test RB | Measured [dBm] | EIRP [dBm] | Limit [dBm] | Verdict |
|----------------|-----------|----------------|--------------|---------|----------------|------------|-------------|---------|
|                |           |                |              | RB1#99  | 23.05          | 23.75      | 33          | PASS    |
|                |           |                |              | RB50#0  | 22.42          | 23.12      | 33          | PASS    |
|                |           |                |              | RB50#25 | 22.09          | 22.79      | 33          | PASS    |
|                |           |                |              | RB50#50 | 22.3           | 23         | 33          | PASS    |
|                |           |                |              | RB100#0 | 22.27          | 22.97      | 33          | PASS    |
|                |           |                | MCH          | RB1#0   | 23.18          | 23.88      | 33          | PASS    |
|                |           |                | MCH          | RB1#50  | 23.32          | 24.02      | 33          | PASS    |
|                |           |                | MCH          | RB1#99  | 23.18          | 23.88      | 33          | PASS    |
|                |           |                | MCH          | RB50#0  | 22.46          | 23.16      | 33          | PASS    |
|                |           |                | MCH          | RB50#25 | 22.24          | 22.94      | 33          | PASS    |
|                |           |                | MCH          | RB50#50 | 22.32          | 23.02      | 33          | PASS    |
|                |           |                | MCH          | RB100#0 | 22.33          | 23.03      | 33          | PASS    |
|                |           |                | HCH          | RB1#0   | 23.41          | 24.11      | 33          | PASS    |
|                |           |                | HCH          | RB1#50  | 23.55          | 24.25      | 33          | PASS    |
|                |           |                | HCH          | RB1#99  | 23.52          | 24.22      | 33          | PASS    |
|                |           |                | HCH          | RB50#0  | 22.42          | 23.12      | 33          | PASS    |
|                |           |                | HCH          | RB50#25 | 22.47          | 23.17      | 33          | PASS    |



| Test Band(LTE) | Test Mode   | Test Bandwidth | Test Channel | Test RB | Measured [dBm] | EIRP [dBm] | Limit [dBm] | Verdict |
|----------------|-------------|----------------|--------------|---------|----------------|------------|-------------|---------|
|                |             |                |              | RB50#50 | 22.4           | 23.1       | 33          | PASS    |
|                |             |                |              | RB100#0 | 22.42          | 23.12      | 33          | PASS    |
|                | LTE/TM<br>2 | 5              | LCH          | RB1#0   | 22.06          | 22.76      | 33          | PASS    |
|                |             |                |              | RB1#13  | 22.2           | 22.9       | 33          | PASS    |
|                |             |                |              | RB1#24  | 21.65          | 22.35      | 33          | PASS    |
|                |             |                |              | RB12#0  | 21.16          | 21.86      | 33          | PASS    |
|                |             |                |              | RB12#6  | 21.26          | 21.96      | 33          | PASS    |
|                |             |                |              | RB12#13 | 21.09          | 21.79      | 33          | PASS    |
|                |             |                |              | RB25#0  | 21.14          | 21.84      | 33          | PASS    |
|                |             |                |              | MCH     | RB1#0          | 22.08      | 22.78       | 33      |
|                |             |                | RB1#13       |         | 22.13          | 22.83      | 33          | PASS    |
|                |             |                | RB1#24       |         | 21.8           | 22.5       | 33          | PASS    |
|                |             |                | RB12#0       |         | 21.3           | 22         | 33          | PASS    |
|                |             |                | RB12#6       | 21.33   | 22.03          | 33         | PASS        |         |
|                |             |                | RB12#13      | 21.13   | 21.83          | 33         | PASS        |         |
|                |             |                | RB25#0       | 21.19   | 21.89          | 33         | PASS        |         |
|                |             |                | HCH          | RB1#0   | 22.38          | 23.08      | 33          | PASS    |

| Test Band(LTE) | Test Mode | Test Bandwidth | Test Channel | Test RB | Measured [dBm] | EIRP [dBm] | Limit [dBm] | Verdict |      |      |
|----------------|-----------|----------------|--------------|---------|----------------|------------|-------------|---------|------|------|
|                |           |                |              | RB1#13  | 22.59          | 23.29      | 33          | PASS    |      |      |
|                |           |                |              | RB1#24  | 22.12          | 22.82      | 33          | PASS    |      |      |
|                |           |                |              | RB12#0  | 21.55          | 22.25      | 33          | PASS    |      |      |
|                |           |                |              | RB12#6  | 21.48          | 22.18      | 33          | PASS    |      |      |
|                |           |                |              | RB12#13 | 21.3           | 22         | 33          | PASS    |      |      |
|                |           |                |              | RB25#0  | 21.36          | 22.06      | 33          | PASS    |      |      |
|                |           | 10             | LCH          |         | RB1#0          | 22.1       | 22.8        | 33      | PASS |      |
|                |           |                |              |         | RB1#25         | 22.46      | 23.16       | 33      | PASS |      |
|                |           |                |              |         | RB1#49         | 22.15      | 22.85       | 33      | PASS |      |
|                |           |                |              |         | RB25#0         | 21.2       | 21.9        | 33      | PASS |      |
|                |           |                |              |         | RB25#13        | 21.14      | 21.84       | 33      | PASS |      |
|                |           |                |              |         | RB25#25        | 21.02      | 21.72       | 33      | PASS |      |
|                |           |                |              |         | RB50#0         | 21.02      | 21.72       | 33      | PASS |      |
|                |           |                |              |         | MCH            | RB1#0      | 22.08       | 22.78   | 33   | PASS |
|                |           |                |              |         |                | RB1#25     | 22.23       | 22.93   | 33   | PASS |
|                |           |                |              |         |                | RB1#49     | 22.11       | 22.81   | 33   | PASS |
| RB25#0         | 21.31     | 22.01          | 33           | PASS    |                |            |             |         |      |      |



| Test Band(LTE) | Test Mode | Test Bandwidth | Test Channel | Test RB | Measured [dBm] | EIRP [dBm] | Limit [dBm] | Verdict |      |
|----------------|-----------|----------------|--------------|---------|----------------|------------|-------------|---------|------|
|                |           |                |              | RB25#13 | 21.31          | 22.01      | 33          | PASS    |      |
|                |           |                |              | RB25#25 | 21.16          | 21.86      | 33          | PASS    |      |
|                |           |                |              | RB50#0  | 21.15          | 21.85      | 33          | PASS    |      |
|                |           |                | HCH          | RB1#0   | 22.45          | 23.15      | 33          | PASS    |      |
|                |           |                |              | RB1#25  | 22.63          | 23.33      | 33          | PASS    |      |
|                |           |                |              | RB1#49  | 22.57          | 23.27      | 33          | PASS    |      |
|                |           |                |              | RB25#0  | 21.42          | 22.12      | 33          | PASS    |      |
|                |           |                |              | RB25#13 | 21.47          | 22.17      | 33          | PASS    |      |
|                |           |                | LCH          | RB25#25 | 21.42          | 22.12      | 33          | PASS    |      |
|                |           |                |              | RB50#0  | 21.37          | 22.07      | 33          | PASS    |      |
|                |           |                |              | 15      | RB1#0          | 22.05      | 22.75       | 33      | PASS |
|                |           |                |              |         | RB1#38         | 22.34      | 23.04       | 33      | PASS |
|                |           | RB1#74         | 22.11        |         | 22.81          | 33         | PASS        |         |      |
|                |           | RB36#0         | 21.12        |         | 21.82          | 33         | PASS        |         |      |
|                |           | RB36#18        | 21.18        |         | 21.88          | 33         | PASS        |         |      |
| RB36#39        | 20.97     | 21.67          | 33           |         | PASS           |            |             |         |      |
| RB75#0         | 20.82     | 21.52          | 33           |         | PASS           |            |             |         |      |



| Test Band(LTE) | Test Mode | Test Bandwidth | Test Channel | Test RB | Measured [dBm] | EIRP [dBm] | Limit [dBm] | Verdict |
|----------------|-----------|----------------|--------------|---------|----------------|------------|-------------|---------|
|                |           |                | MCH          | RB1#0   | 22.03          | 22.73      | 33          | PASS    |
|                |           |                |              | RB1#38  | 22.21          | 22.91      | 33          | PASS    |
|                |           |                |              | RB1#74  | 22.13          | 22.83      | 33          | PASS    |
|                |           |                |              | RB36#0  | 21.32          | 22.02      | 33          | PASS    |
|                |           |                |              | RB36#18 | 21.31          | 22.01      | 33          | PASS    |
|                |           |                |              | RB36#39 | 21.14          | 21.84      | 33          | PASS    |
|                |           |                |              | RB75#0  | 21.18          | 21.88      | 33          | PASS    |
|                |           |                | HCH          | RB1#0   | 22.14          | 22.84      | 33          | PASS    |
|                |           |                |              | RB1#38  | 22.57          | 23.27      | 33          | PASS    |
|                |           |                |              | RB1#74  | 22.39          | 23.09      | 33          | PASS    |
|                |           |                |              | RB36#0  | 21.32          | 22.02      | 33          | PASS    |
|                |           |                |              | RB36#18 | 21.36          | 22.06      | 33          | PASS    |
|                |           |                |              | RB36#39 | 21.24          | 21.94      | 33          | PASS    |
|                |           |                |              | RB75#0  | 21.32          | 22.02      | 33          | PASS    |
|                |           | 20             | LCH          | RB1#0   | 22.23          | 22.93      | 33          | PASS    |
| RB1#50         | 22.39     |                |              | 23.09   | 33             | PASS       |             |         |
| RB1#99         | 22.21     |                |              | 22.91   | 33             | PASS       |             |         |

| Test Band(LTE) | Test Mode | Test Bandwidth | Test Channel | Test RB | Measured [dBm] | EIRP [dBm] | Limit [dBm] | Verdict |
|----------------|-----------|----------------|--------------|---------|----------------|------------|-------------|---------|
|                |           |                |              | RB50#0  | 21.28          | 21.98      | 33          | PASS    |
|                |           |                |              | RB50#25 | 21.02          | 21.72      | 33          | PASS    |
|                |           |                |              | RB50#50 | 21.24          | 21.94      | 33          | PASS    |
|                |           |                |              | RB100#0 | 21.22          | 21.92      | 33          | PASS    |
|                |           |                | MCH          | RB1#0   | 22.57          | 23.27      | 33          | PASS    |
|                |           |                |              | RB1#50  | 22.56          | 23.26      | 33          | PASS    |
|                |           |                |              | RB1#99  | 22.47          | 23.17      | 33          | PASS    |
|                |           |                |              | RB50#0  | 21.44          | 22.14      | 33          | PASS    |
|                |           |                |              | RB50#25 | 21.23          | 21.93      | 33          | PASS    |
|                |           |                |              | RB50#50 | 21.26          | 21.96      | 33          | PASS    |
|                |           |                |              | RB100#0 | 21.34          | 22.04      | 33          | PASS    |
|                |           |                | HCH          | RB1#0   | 22.59          | 23.29      | 33          | PASS    |
|                |           |                |              | RB1#50  | 22.73          | 23.43      | 33          | PASS    |
|                |           |                |              | RB1#99  | 22.79          | 23.49      | 33          | PASS    |
|                |           |                |              | RB50#0  | 21.47          | 22.17      | 33          | PASS    |
|                |           |                |              | RB50#25 | 21.53          | 22.23      | 33          | PASS    |
|                |           |                |              | RB50#50 | 21.52          | 22.22      | 33          | PASS    |



| Test Band(LTE) | Test Mode | Test Bandwidth | Test Channel | Test RB | Measured [dBm] | EIRP [dBm] | Limit [dBm] | Verdict |
|----------------|-----------|----------------|--------------|---------|----------------|------------|-------------|---------|
|                |           |                |              | RB100#0 | 21.46          | 22.16      | 33          | 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 |
|--------------------|-----------|----------------------|--------------|---------|--------------|------------|---------|
| BAND38             | LTE/TM1   | 5                    | LCH          | RB1#0   | 5.23         | 13         | PASS    |
|                    |           |                      |              | RB1#13  | 5.07         | 13         | PASS    |
|                    |           |                      |              | RB1#24  | 5.56         | 13         | PASS    |
|                    |           |                      |              | RB12#0  | 6.09         | 13         | PASS    |
|                    |           |                      |              | RB12#6  | 5.84         | 13         | PASS    |
|                    |           |                      |              | RB12#13 | 6.21         | 13         | PASS    |
|                    |           |                      |              | RB25#0  | 6.17         | 13         | PASS    |
|                    |           |                      | MCH          | RB1#0   | 5            | 13         | PASS    |
|                    |           |                      |              | RB1#13  | 4.88         | 13         | PASS    |
|                    |           |                      |              | RB1#24  | 4.95         | 13         | PASS    |
|                    |           |                      |              | RB12#0  | 6.04         | 13         | PASS    |
|                    |           |                      |              | RB12#6  | 5.91         | 13         | PASS    |
|                    |           |                      |              | RB12#13 | 6.17         | 13         | PASS    |
|                    |           |                      |              | RB25#0  | 6.27         | 13         | PASS    |
|                    |           | HCH                  | RB1#0        | 5.16    | 13           | PASS       |         |
|                    |           |                      | RB1#13       | 5.18    | 13           | PASS       |         |
|                    |           |                      | RB1#24       | 5.3     | 13           | PASS       |         |
|                    |           |                      | RB12#0       | 5.72    | 13           | PASS       |         |
|                    |           |                      | RB12#6       | 5.73    | 13           | PASS       |         |
|                    |           |                      | RB12#13      | 5.83    | 13           | PASS       |         |
|                    |           |                      | RB25#0       | 6.16    | 13           | PASS       |         |
|                    |           | 10                   | LCH          | RB1#0   | 4.78         | 13         | PASS    |
|                    |           |                      |              | RB1#25  | 4.81         | 13         | PASS    |
|                    |           |                      |              | RB1#49  | 4.93         | 13         | PASS    |
|                    |           |                      |              | RB25#0  | 6.25         | 13         | PASS    |
|                    |           |                      |              | RB25#13 | 6.19         | 13         | PASS    |
|                    |           |                      |              | RB25#25 | 6.14         | 13         | PASS    |
|                    |           |                      |              | RB50#0  | 6.07         | 13         | PASS    |
| MCH                | RB1#0     |                      | 5.02         | 13      | PASS         |            |         |
|                    | RB1#25    |                      | 4.75         | 13      | PASS         |            |         |



| Test Band(For LTE) | Test Mode | Test Bandwidth (MHz) | Test Channel | Test RB | Measured[dB] | Limit [dB] | Verdict |
|--------------------|-----------|----------------------|--------------|---------|--------------|------------|---------|
|                    |           |                      |              | RB1#49  | 5.13         | 13         | PASS    |
|                    |           |                      |              | RB25#0  | 5.94         | 13         | PASS    |
|                    |           |                      |              | RB25#13 | 6.08         | 13         | PASS    |
|                    |           |                      |              | RB25#25 | 6.12         | 13         | PASS    |
|                    |           |                      |              | RB50#0  | 6.51         | 13         | PASS    |
|                    |           |                      | HCH          | RB1#0   | 4.73         | 13         | PASS    |
|                    |           |                      |              | RB1#25  | 4.58         | 13         | PASS    |
|                    |           |                      |              | RB1#49  | 4.82         | 13         | PASS    |
|                    |           |                      |              | RB25#0  | 5.91         | 13         | PASS    |
|                    |           |                      |              | RB25#13 | 6.06         | 13         | PASS    |
|                    |           |                      |              | RB25#25 | 6.01         | 13         | PASS    |
|                    |           |                      |              | RB50#0  | 5.92         | 13         | PASS    |
|                    |           | 15                   | LCH          | RB1#0   | 5.46         | 13         | PASS    |
|                    |           |                      |              | RB1#38  | 5.24         | 13         | PASS    |
|                    |           |                      |              | RB1#74  | 5.28         | 13         | PASS    |
|                    |           |                      |              | RB36#0  | 6.28         | 13         | PASS    |
|                    |           |                      |              | RB36#18 | 6.21         | 13         | PASS    |
|                    |           |                      |              | RB36#39 | 6.11         | 13         | PASS    |
|                    |           |                      | RB75#0       | 6.4     | 13           | PASS       |         |
|                    |           |                      | MCH          | RB1#0   | 4.43         | 13         | PASS    |
|                    |           |                      |              | RB1#38  | 4.28         | 13         | PASS    |
|                    |           |                      |              | RB1#74  | 4.68         | 13         | PASS    |
|                    |           |                      |              | RB36#0  | 6            | 13         | PASS    |
|                    |           |                      |              | RB36#18 | 6.06         | 13         | PASS    |
|                    |           | RB36#39              |              | 6.03    | 13           | PASS       |         |
|                    |           | RB75#0               | 6.4          | 13      | PASS         |            |         |
|                    |           | HCH                  | RB1#0        | 4.87    | 13           | PASS       |         |
|                    |           |                      | RB1#38       | 4.83    | 13           | PASS       |         |
|                    |           |                      | RB1#74       | 5.01    | 13           | PASS       |         |
|                    |           |                      | RB36#0       | 6.31    | 13           | PASS       |         |
|                    |           |                      | RB36#18      | 6.42    | 13           | PASS       |         |
|                    |           |                      | RB36#39      | 6.31    | 13           | PASS       |         |
|                    |           |                      | RB75#0       | 6.55    | 13           | PASS       |         |
| 20                 | LCH       | RB1#0                | 5.17         | 13      | PASS         |            |         |
|                    |           | RB1#50               | 4.81         | 13      | PASS         |            |         |
|                    |           | RB1#99               | 5.18         | 13      | PASS         |            |         |
|                    |           | RB50#0               | 6.24         | 13      | PASS         |            |         |
|                    |           | RB50#25              | 6.09         | 13      | PASS         |            |         |
|                    |           | RB50#50              | 6.35         | 13      | PASS         |            |         |



| Test Band(For LTE) | Test Mode | Test Bandwidth (MHz) | Test Channel | Test RB | Measured[dB] | Limit [dB] | Verdict |      |
|--------------------|-----------|----------------------|--------------|---------|--------------|------------|---------|------|
|                    |           |                      |              | RB100#0 | 6.28         | 13         | PASS    |      |
|                    |           |                      | MCH          | RB1#0   | 5.44         | 13         | PASS    |      |
|                    |           |                      |              | RB1#50  | 4.92         | 13         | PASS    |      |
|                    |           |                      |              | RB1#99  | 5.38         | 13         | PASS    |      |
|                    |           |                      |              | RB50#0  | 6.02         | 13         | PASS    |      |
|                    |           |                      |              | RB50#25 | 5.99         | 13         | PASS    |      |
|                    |           |                      |              | RB50#50 | 5.98         | 13         | PASS    |      |
|                    |           |                      |              | RB100#0 | 6.52         | 13         | PASS    |      |
|                    |           |                      | HCH          | RB1#0   | 4.58         | 13         | PASS    |      |
|                    |           |                      |              | RB1#50  | 4.35         | 13         | PASS    |      |
|                    |           |                      |              | RB1#99  | 4.74         | 13         | PASS    |      |
|                    |           |                      |              | RB50#0  | 5.89         | 13         | PASS    |      |
|                    |           |                      |              | RB50#25 | 5.99         | 13         | PASS    |      |
|                    |           |                      |              | RB50#50 | 6.1          | 13         | PASS    |      |
|                    | RB100#0   | 6.37                 |              | 13      | PASS         |            |         |      |
|                    |           | LTE/TM2              | 5            | LCH     | RB1#0        | 6.04       | 13      | PASS |
|                    |           |                      |              |         | RB1#13       | 5.93       | 13      | PASS |
|                    |           |                      |              |         | RB1#24       | 6.01       | 13      | PASS |
|                    |           |                      |              |         | RB12#0       | 6.93       | 13      | PASS |
|                    |           |                      |              |         | RB12#6       | 7.06       | 13      | PASS |
|                    |           |                      |              |         | RB12#13      | 6.82       | 13      | PASS |
|                    |           |                      |              |         | RB25#0       | 7.05       | 13      | PASS |
|                    |           |                      |              | MCH     | RB1#0        | 5.58       | 13      | PASS |
|                    |           |                      |              |         | RB1#13       | 5.77       | 13      | PASS |
|                    |           |                      |              |         | RB1#24       | 5.74       | 13      | PASS |
|                    |           |                      |              |         | RB12#0       | 6.62       | 13      | PASS |
|                    |           |                      |              |         | RB12#6       | 6.53       | 13      | PASS |
|                    |           |                      |              |         | RB12#13      | 6.65       | 13      | PASS |
|                    |           |                      |              |         | RB25#0       | 6.59       | 13      | PASS |
|                    |           |                      | HCH          | RB1#0   | 5.46         | 13         | PASS    |      |
|                    |           |                      |              | RB1#13  | 5.7          | 13         | PASS    |      |
|                    |           |                      |              | RB1#24  | 5.71         | 13         | PASS    |      |
|                    |           |                      |              | RB12#0  | 6.66         | 13         | PASS    |      |
| RB12#6             |           |                      |              | 6.51    | 13           | PASS       |         |      |
| RB12#13            | 6.38      | 13                   |              | PASS    |              |            |         |      |
| RB25#0             | 6.93      | 13                   |              | PASS    |              |            |         |      |
| 10                 | LCH       | RB1#0                | 5.75         | 13      | PASS         |            |         |      |
|                    |           | RB1#25               | 5.65         | 13      | PASS         |            |         |      |
|                    |           | RB1#49               | 5.59         | 13      | PASS         |            |         |      |





| Test Band(For LTE) | Test Mode | Test Bandwidth (MHz) | Test Channel | Test RB | Measured[dB] | Limit [dB] | Verdict |
|--------------------|-----------|----------------------|--------------|---------|--------------|------------|---------|
|                    |           | 20                   | LCH          | RB1#0   | 5.95         | 13         | PASS    |
|                    |           |                      |              | RB1#50  | 5.55         | 13         | PASS    |
|                    |           |                      |              | RB1#99  | 5.9          | 13         | PASS    |
|                    |           |                      |              | RB50#0  | 6.91         | 13         | PASS    |
|                    |           |                      |              | RB50#25 | 6.92         | 13         | PASS    |
|                    |           |                      |              | RB50#50 | 6.86         | 13         | PASS    |
|                    |           |                      |              | RB100#0 | 7.16         | 13         | PASS    |
|                    |           |                      | MCH          | RB1#0   | 5.89         | 13         | PASS    |
|                    |           |                      |              | RB1#50  | 5.5          | 13         | PASS    |
|                    |           |                      |              | RB1#99  | 5.91         | 13         | PASS    |
|                    |           |                      |              | RB50#0  | 7.1          | 13         | PASS    |
|                    |           |                      |              | RB50#25 | 6.69         | 13         | PASS    |
|                    |           |                      |              | RB50#50 | 6.83         | 13         | PASS    |
|                    |           |                      |              | RB100#0 | 7.34         | 13         | PASS    |
|                    |           |                      | HCH          | RB1#0   | 5.89         | 13         | PASS    |
|                    |           |                      |              | RB1#50  | 5.68         | 13         | PASS    |
|                    |           |                      |              | RB1#99  | 6.14         | 13         | PASS    |
|                    |           |                      |              | RB50#0  | 7            | 13         | PASS    |
|                    |           |                      |              | RB50#25 | 7.21         | 13         | PASS    |
|                    |           |                      |              | RB50#50 | 7.36         | 13         | PASS    |
|                    |           |                      |              | RB100#0 | 7.3          | 13         | PASS    |

## 3Appendix\_C: Modulation Characteristics

### Part I - Test Plots

#### 3.1 For LTE

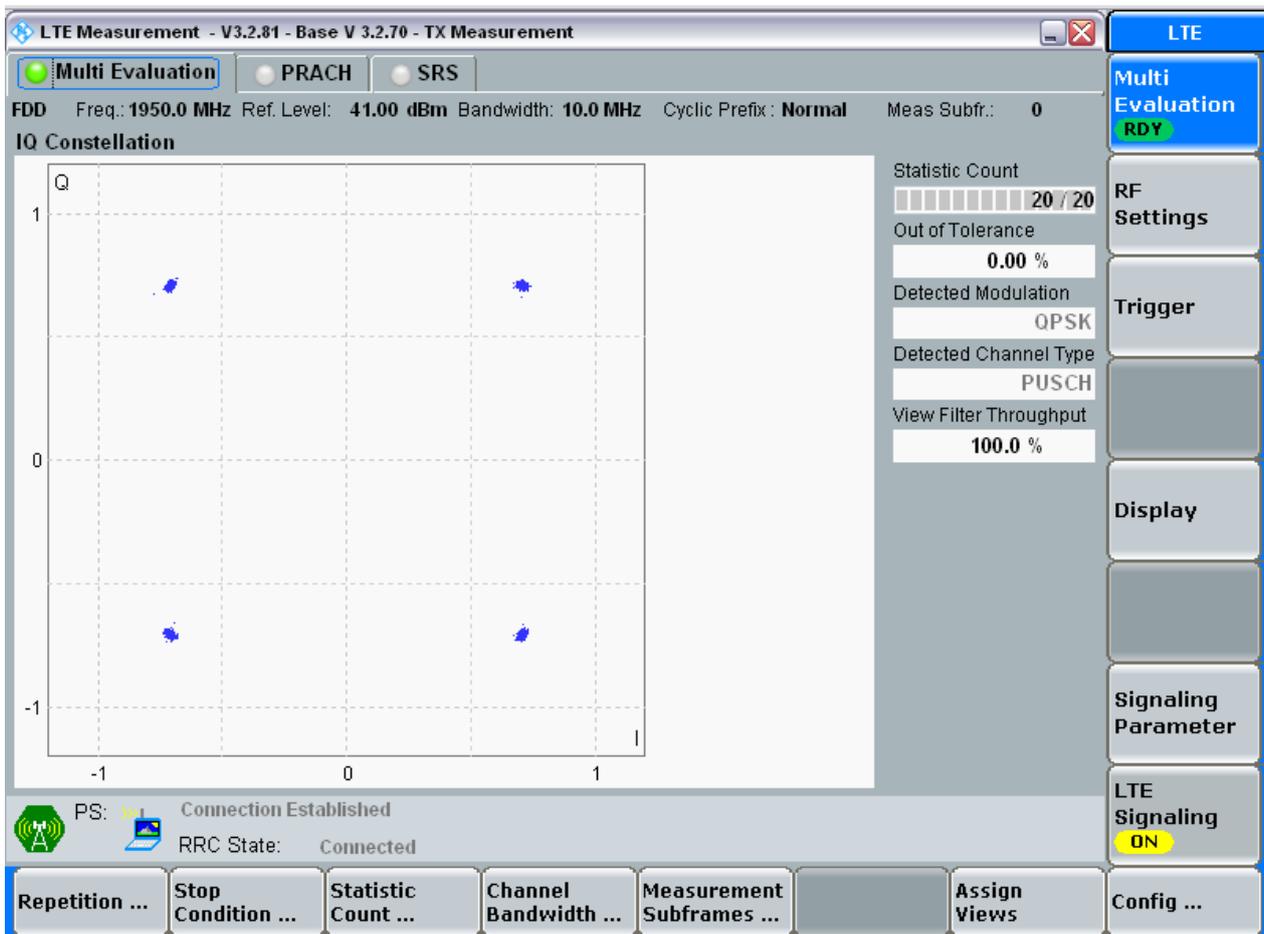
##### 3.1.1 Test Band = BAND38

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

##### 3.1.1.1.1 Test Bandwidth = 5

##### 3.1.1.1.1.1 Test Channel = MCH

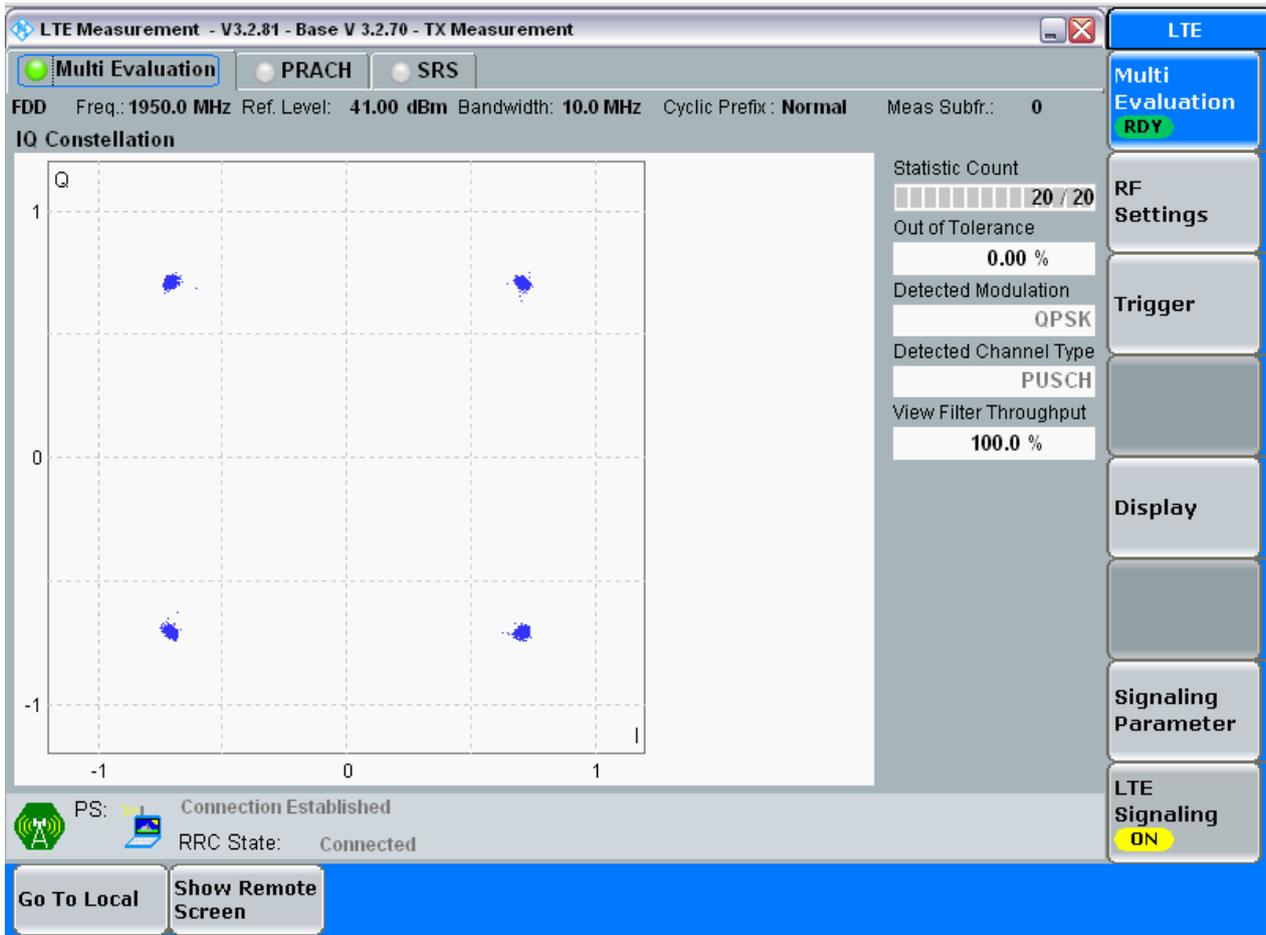
##### 3.1.1.1.1.1.1 Test RB = RB25#0



### 3.1.1.1.2 Test Bandwidth = 10

#### 3.1.1.1.2.1 Test Channel = MCH

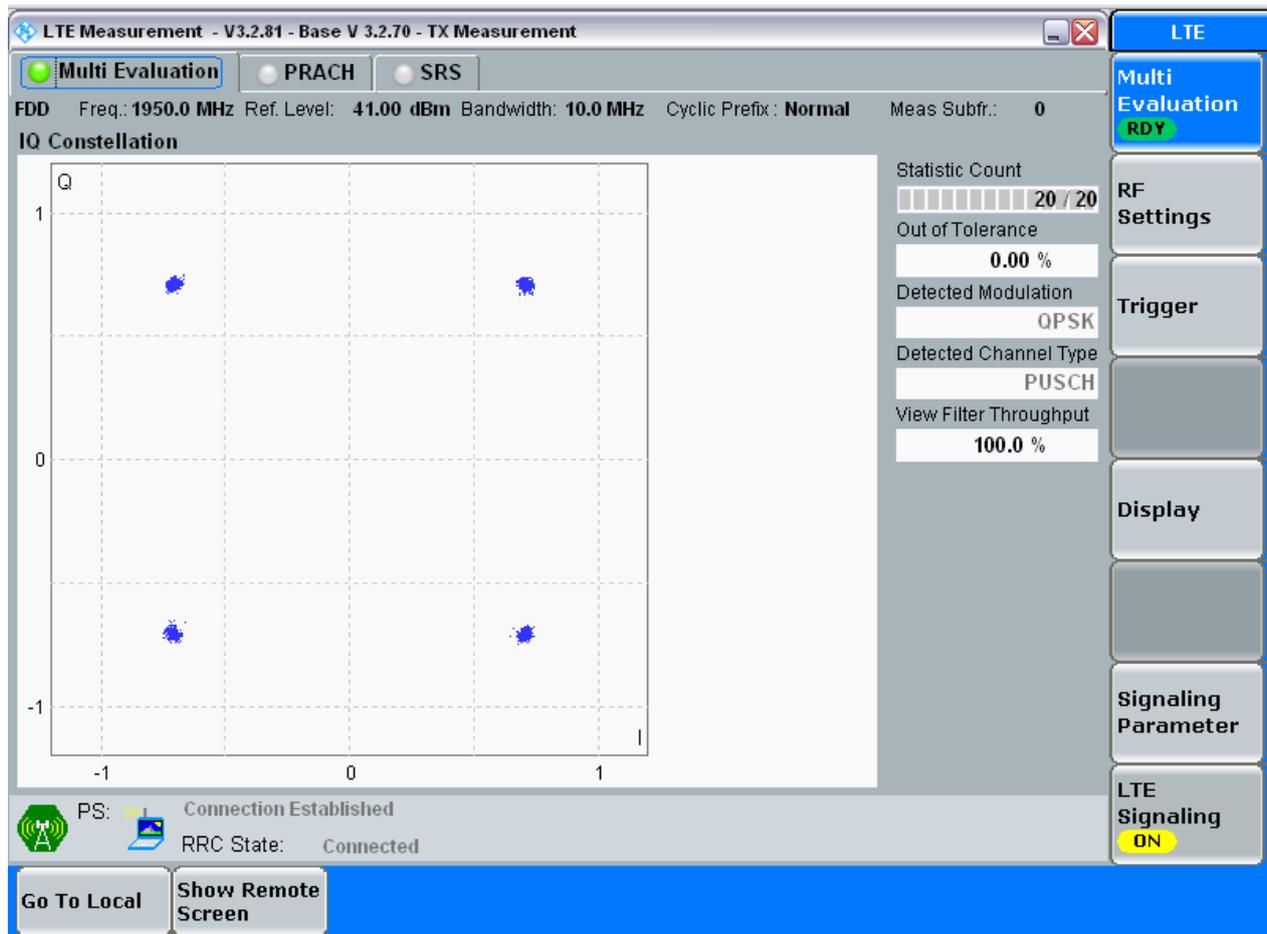
##### 3.1.1.1.2.1.1 Test RB = RB50#0



### 3.1.1.1.3 Test Bandwidth = 15

#### 3.1.1.1.3.1 Test Channel = MCH

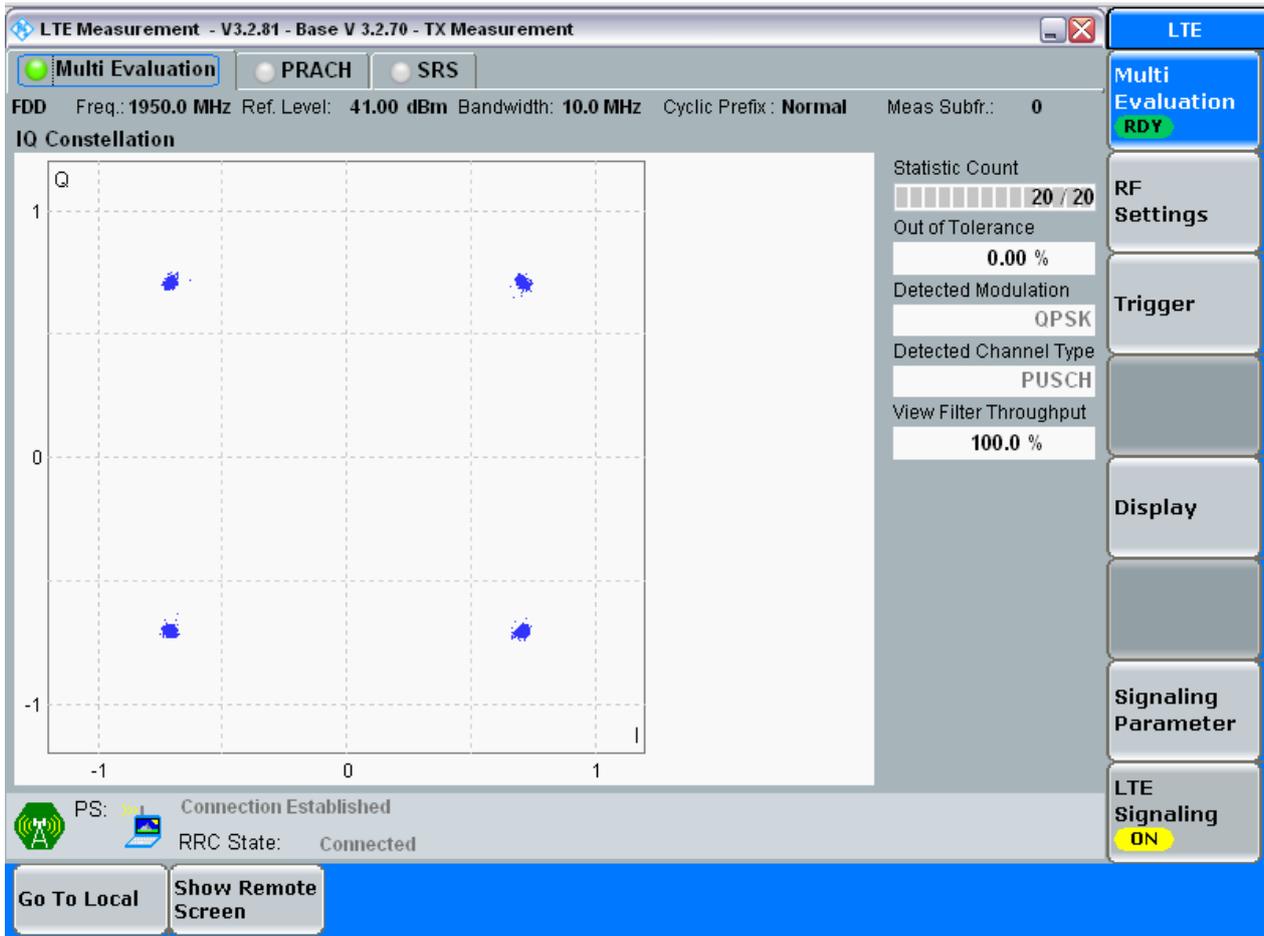
##### 3.1.1.1.3.1.1 Test RB = RB75#0



### 3.1.1.1.4 Test Bandwidth = 20

#### 3.1.1.1.4.1 Test Channel = MCH

##### 3.1.1.1.4.1.1 Test RB = RB100#0

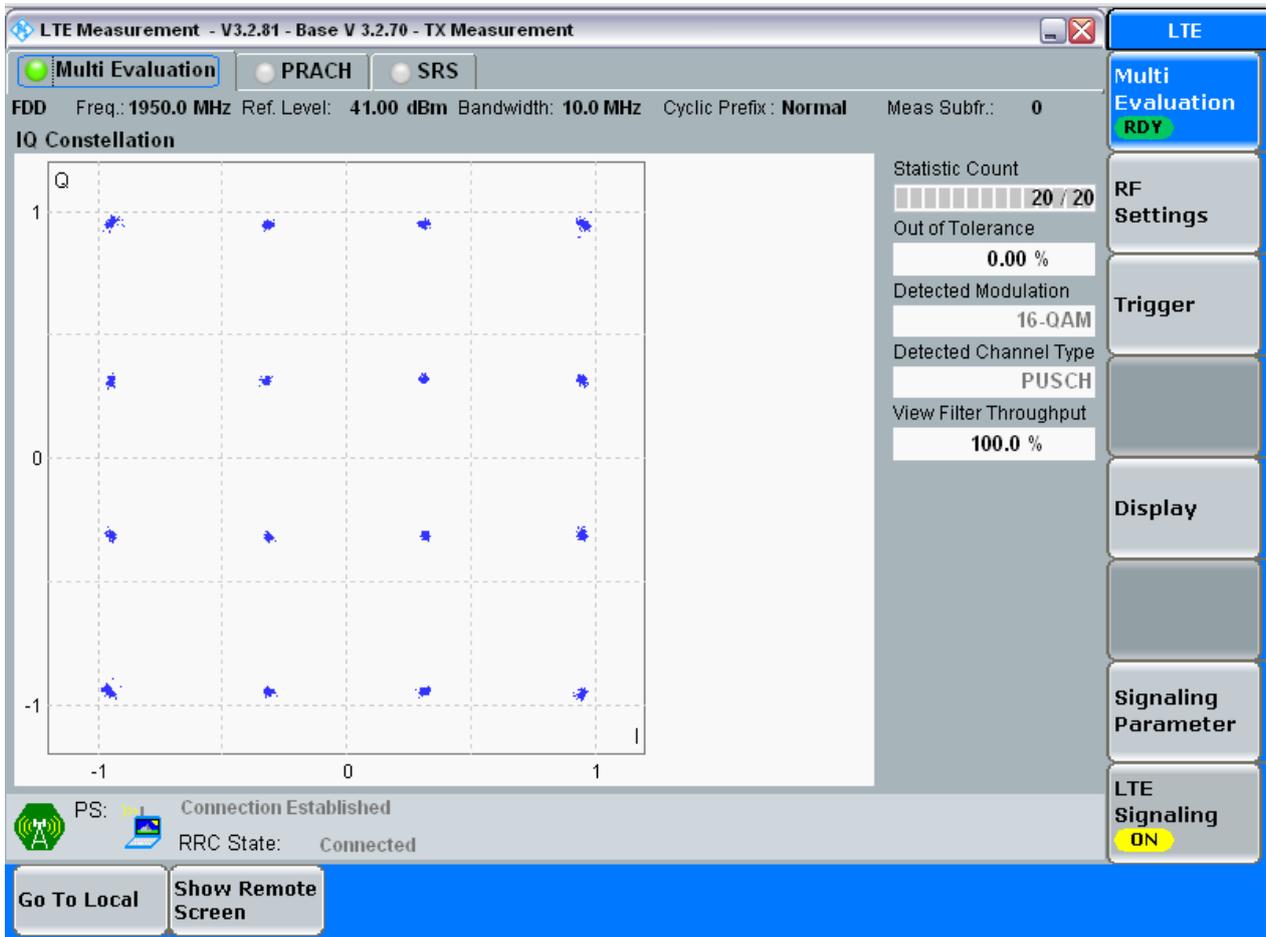


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 5

3.1.1.2.1.1 Test Channel = MCH

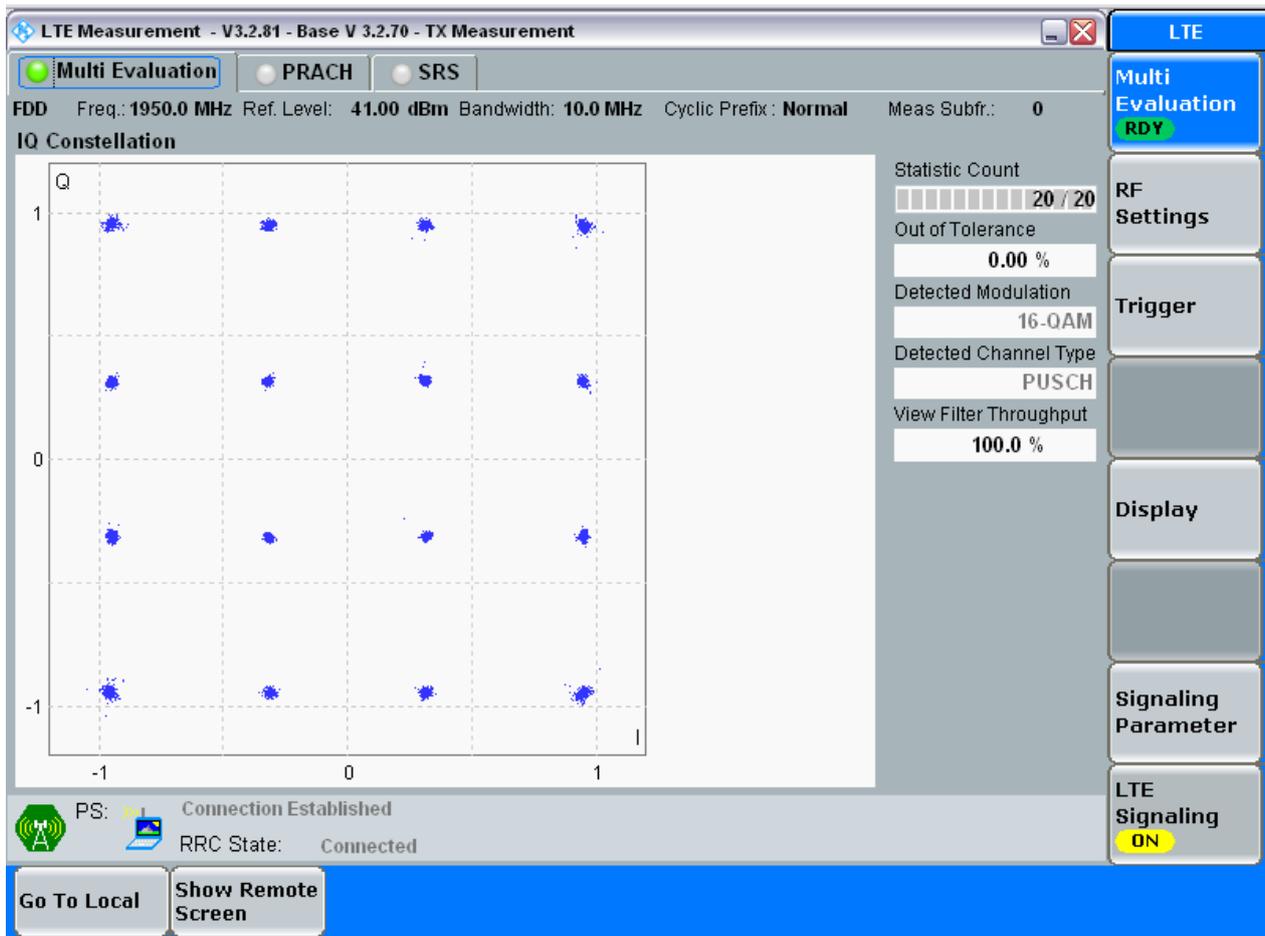
3.1.1.2.1.1.1 Test RB = RB25#0



### 3.1.1.2.2 Test Bandwidth = 10

#### 3.1.1.2.2.1 Test Channel = MCH

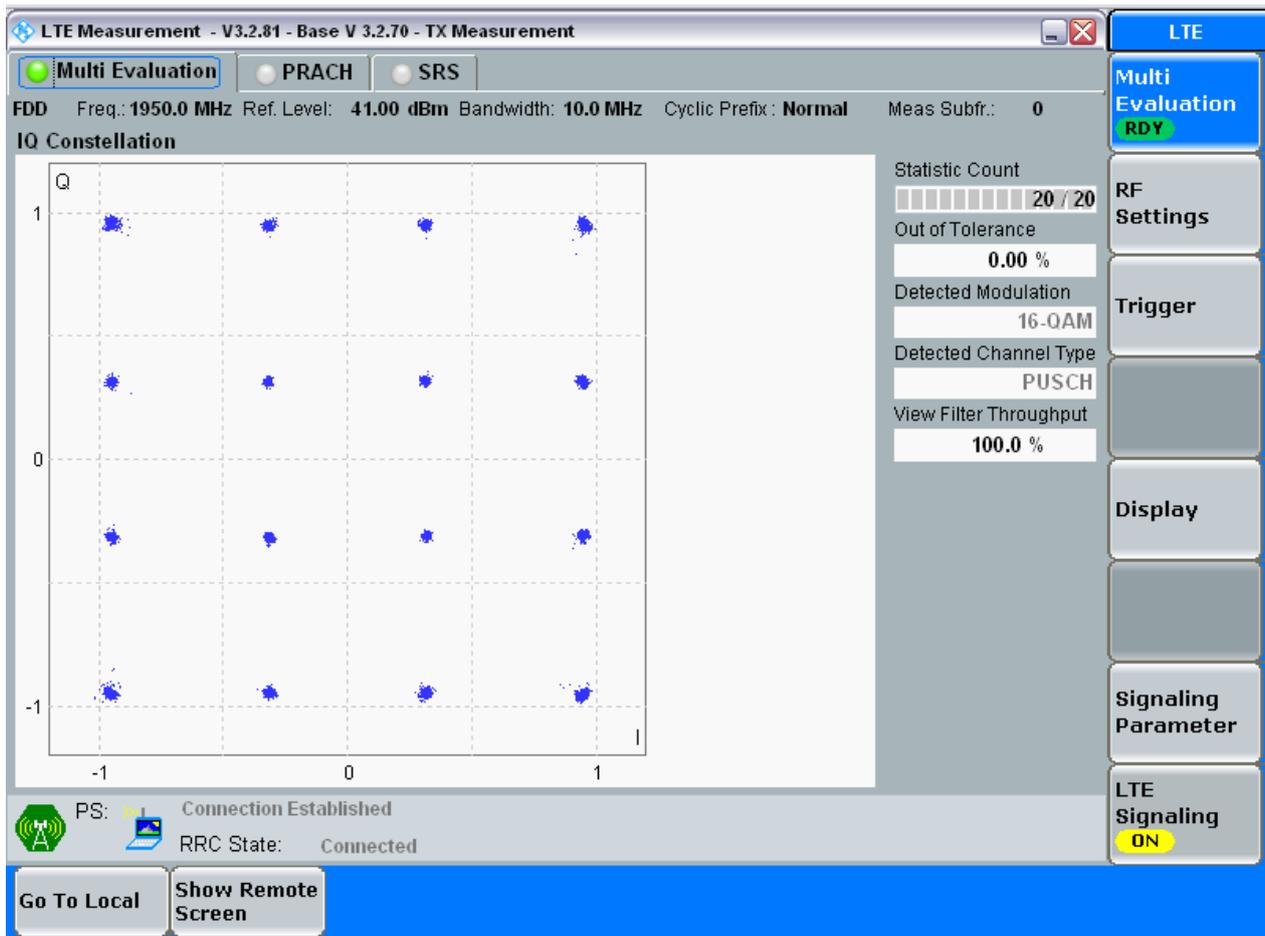
##### 3.1.1.2.2.1.1 Test RB = RB50#0



### 3.1.1.2.3 Test Bandwidth = 15

#### 3.1.1.2.3.1 Test Channel = MCH

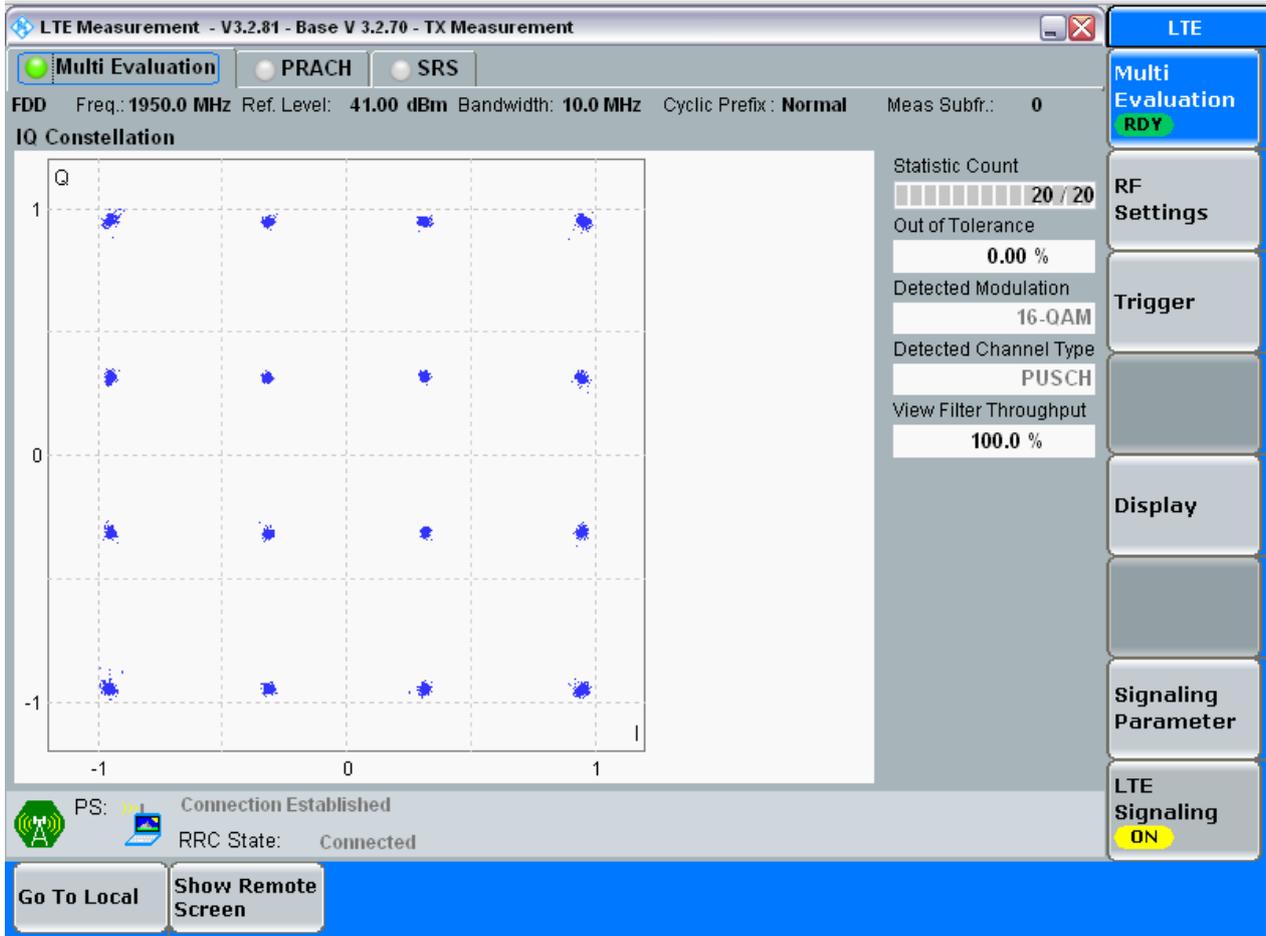
##### 3.1.1.2.3.1.1 Test RB = RB75#0



### 3.1.1.2.4 Test Bandwidth = 20

#### 3.1.1.2.4.1 Test Channel = MCH

##### 3.1.1.2.4.1.1 Test RB = RB100#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 |
|-----------|-----------|----------------|--------------|---------|--------------------------|--------------------------|---------|
| BAND38    | LTE/TM1   | 5              | LCH          | RB25#0  | 4.50                     | 4.87                     | Pass    |
|           |           |                | MCH          | RB25#0  | 4.49                     | 4.82                     | Pass    |
|           |           |                | HCH          | RB25#0  | 4.50                     | 4.85                     | Pass    |
|           |           | 10             | LCH          | RB50#0  | 8.98                     | 9.60                     | Pass    |
|           |           |                | MCH          | RB50#0  | 8.98                     | 9.55                     | Pass    |
|           |           |                | HCH          | RB50#0  | 9.01                     | 9.64                     | Pass    |
|           |           | 15             | LCH          | RB75#0  | 13.44                    | 14.29                    | Pass    |
|           |           |                | MCH          | RB75#0  | 13.46                    | 14.29                    | Pass    |
|           |           |                | HCH          | RB75#0  | 13.46                    | 14.31                    | Pass    |
|           |           | 20             | LCH          | RB100#0 | 17.93                    | 18.96                    | Pass    |
|           |           |                | MCH          | RB100#0 | 17.94                    | 18.99                    | Pass    |
|           |           |                | HCH          | RB100#0 | 17.95                    | 19.05                    | Pass    |
|           | LTE/TM2   | 5              | LCH          | RB25#0  | 4.49                     | 4.84                     | Pass    |
|           |           |                | MCH          | RB25#0  | 4.50                     | 4.85                     | Pass    |
|           |           |                | HCH          | RB25#0  | 4.49                     | 4.86                     | Pass    |
|           |           | 10             | LCH          | RB50#0  | 8.98                     | 9.60                     | Pass    |
|           |           |                | MCH          | RB50#0  | 9.01                     | 9.66                     | Pass    |
|           |           |                | HCH          | RB50#0  | 8.98                     | 9.60                     | Pass    |
|           |           | 15             | LCH          | RB75#0  | 13.46                    | 14.26                    | Pass    |
|           |           |                | MCH          | RB75#0  | 13.46                    | 14.36                    | Pass    |
|           |           |                | HCH          | RB75#0  | 13.46                    | 14.31                    | Pass    |
|           |           | 20             | LCH          | RB100#0 | 17.95                    | 19.07                    | Pass    |
|           |           |                | MCH          | RB100#0 | 17.95                    | 19.11                    | Pass    |
|           |           |                | HCH          | RB100#0 | 17.96                    | 19.05                    | Pass    |



## Part II - Test Plots

### 4.1 For LTE

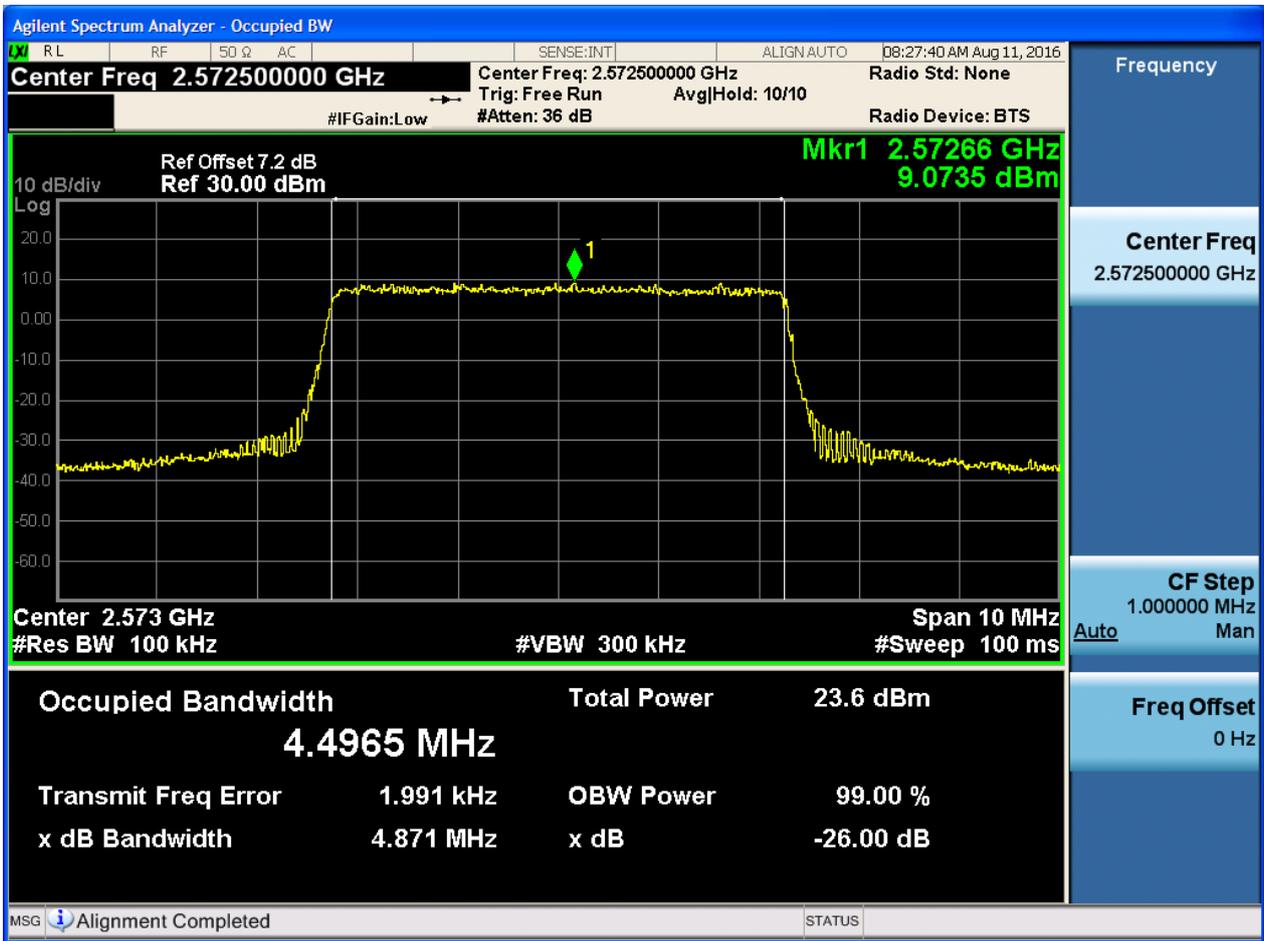
#### 4.1.1 Test Band = BAND38

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

##### 4.1.1.1.1 Test Bandwidth = 5

##### 4.1.1.1.1.1 Test Channel = LCH

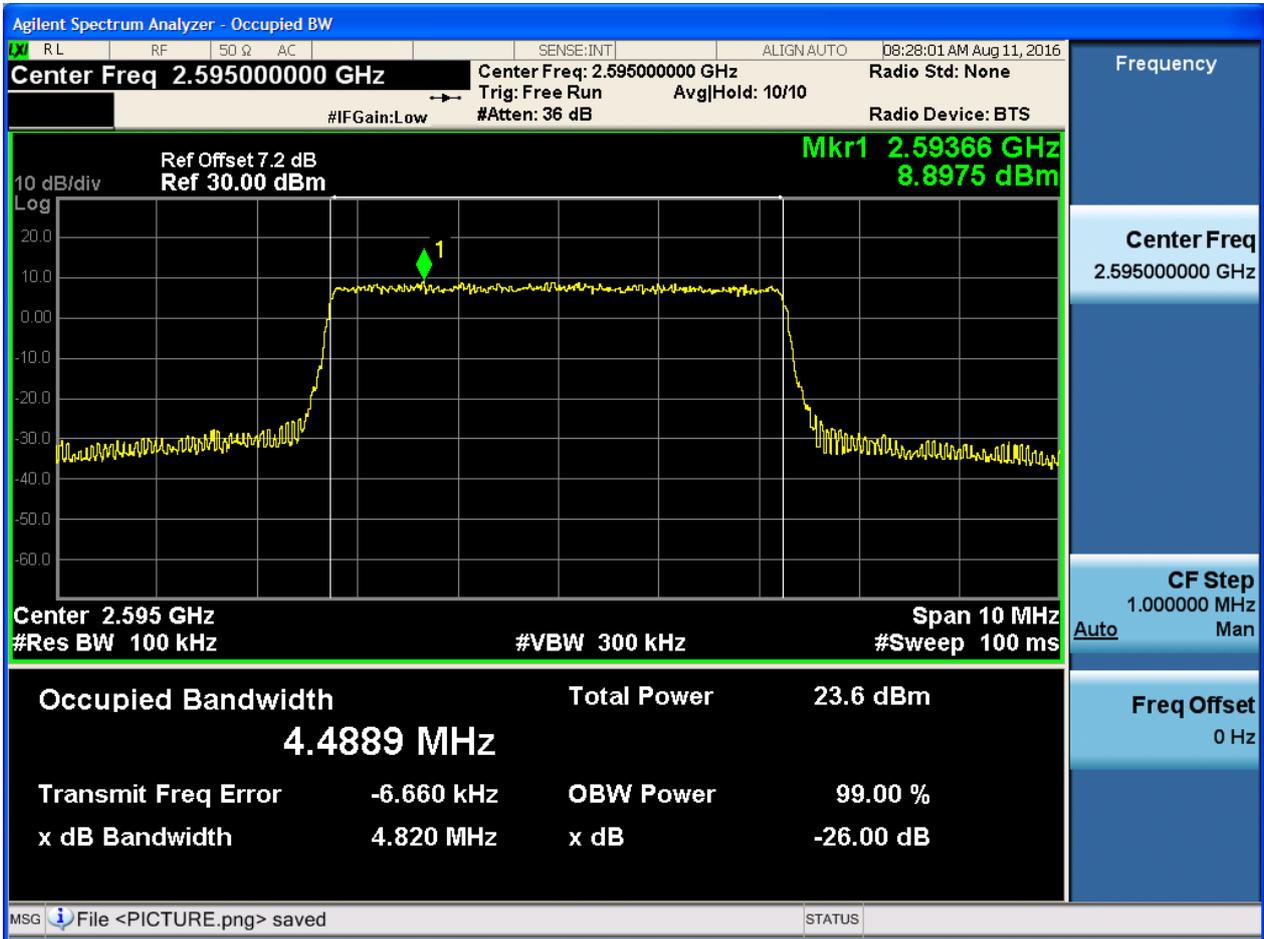
##### 4.1.1.1.1.1.1 Test RB = RB25#0





4.1.1.1.1.2 Test Channel = MCH

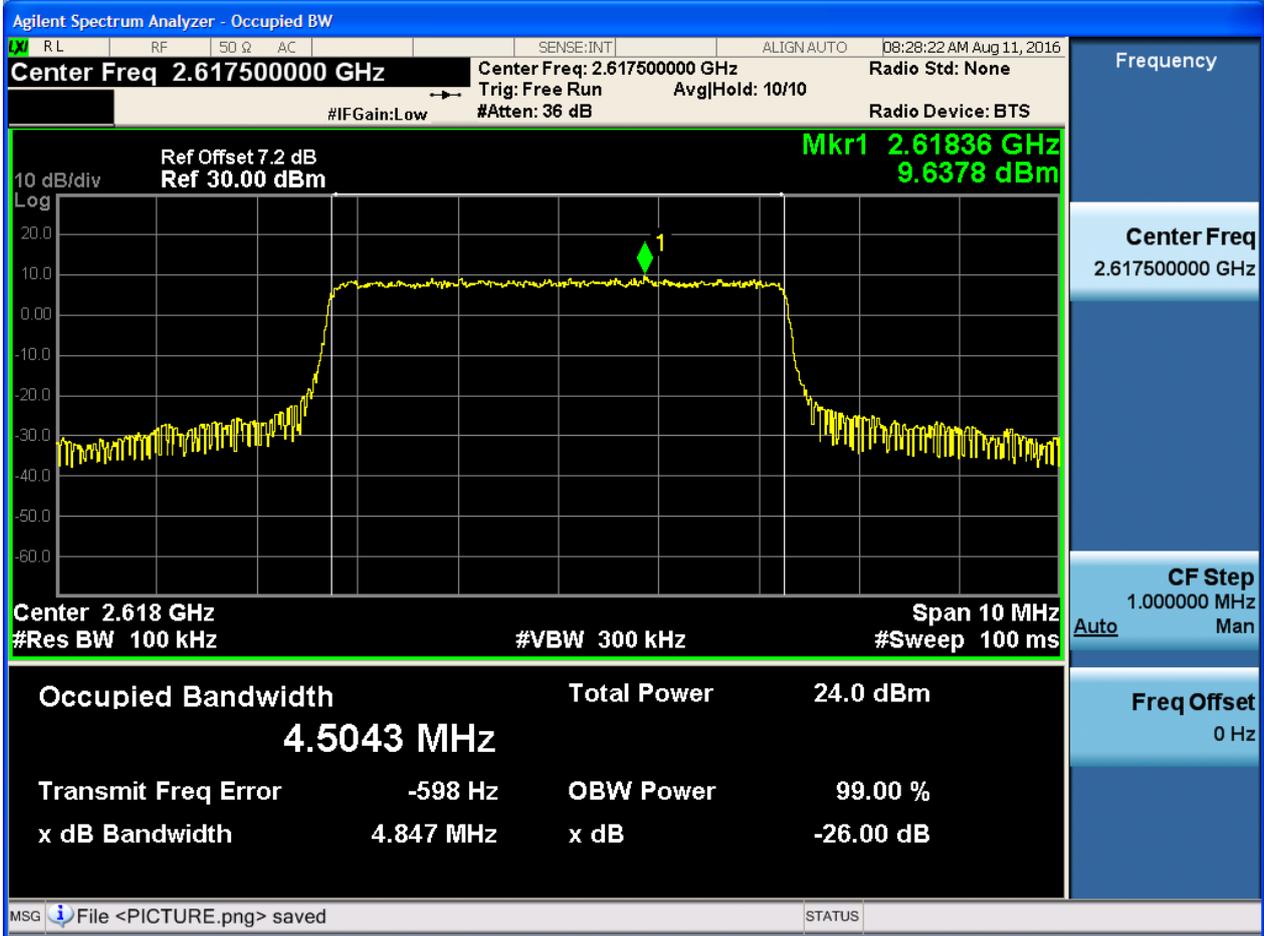
4.1.1.1.1.2.1 Test RB = RB25#0





4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB25#0

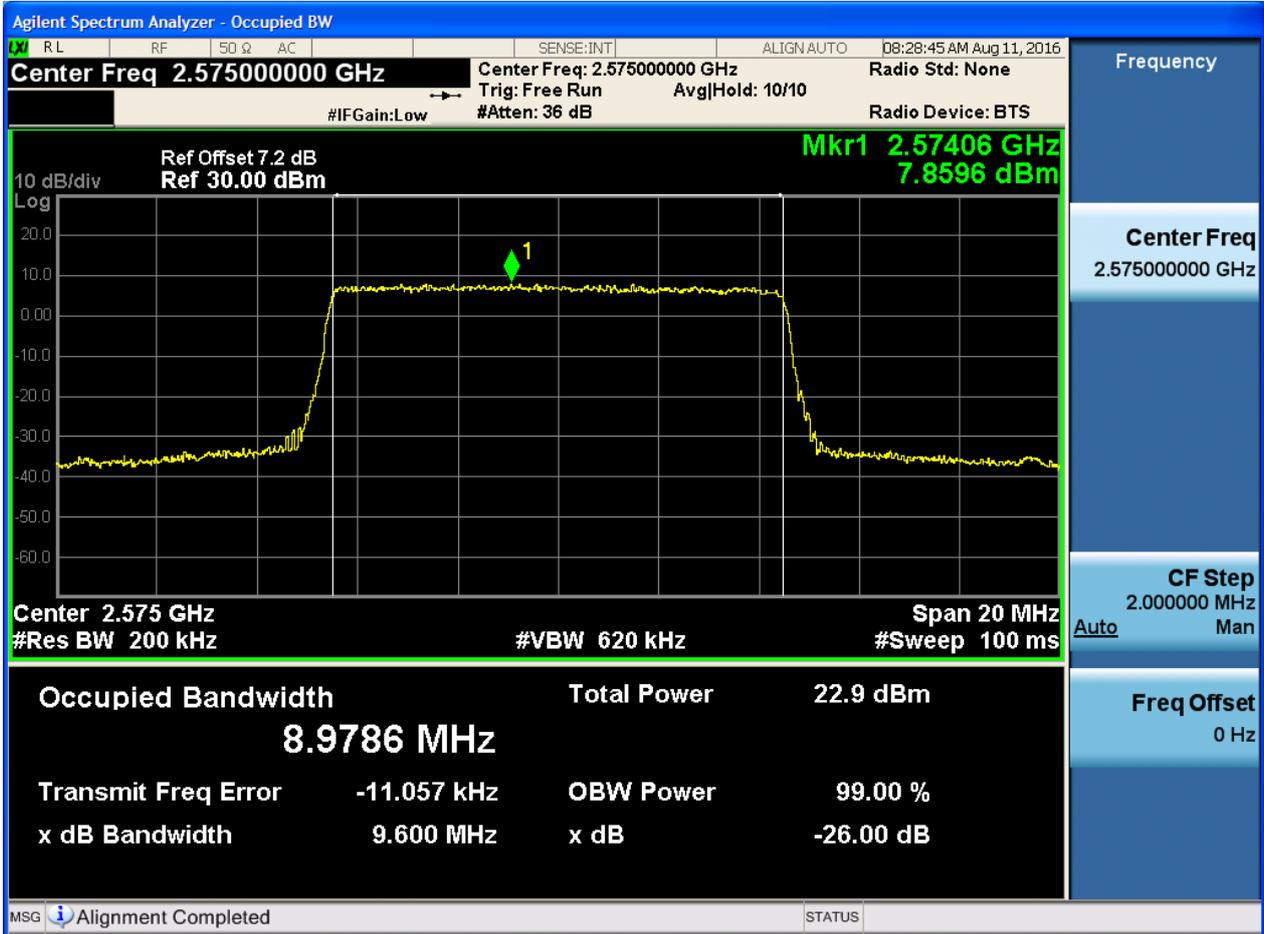




4.1.1.1.2 Test Bandwidth = 10

4.1.1.1.2.1 Test Channel = LCH

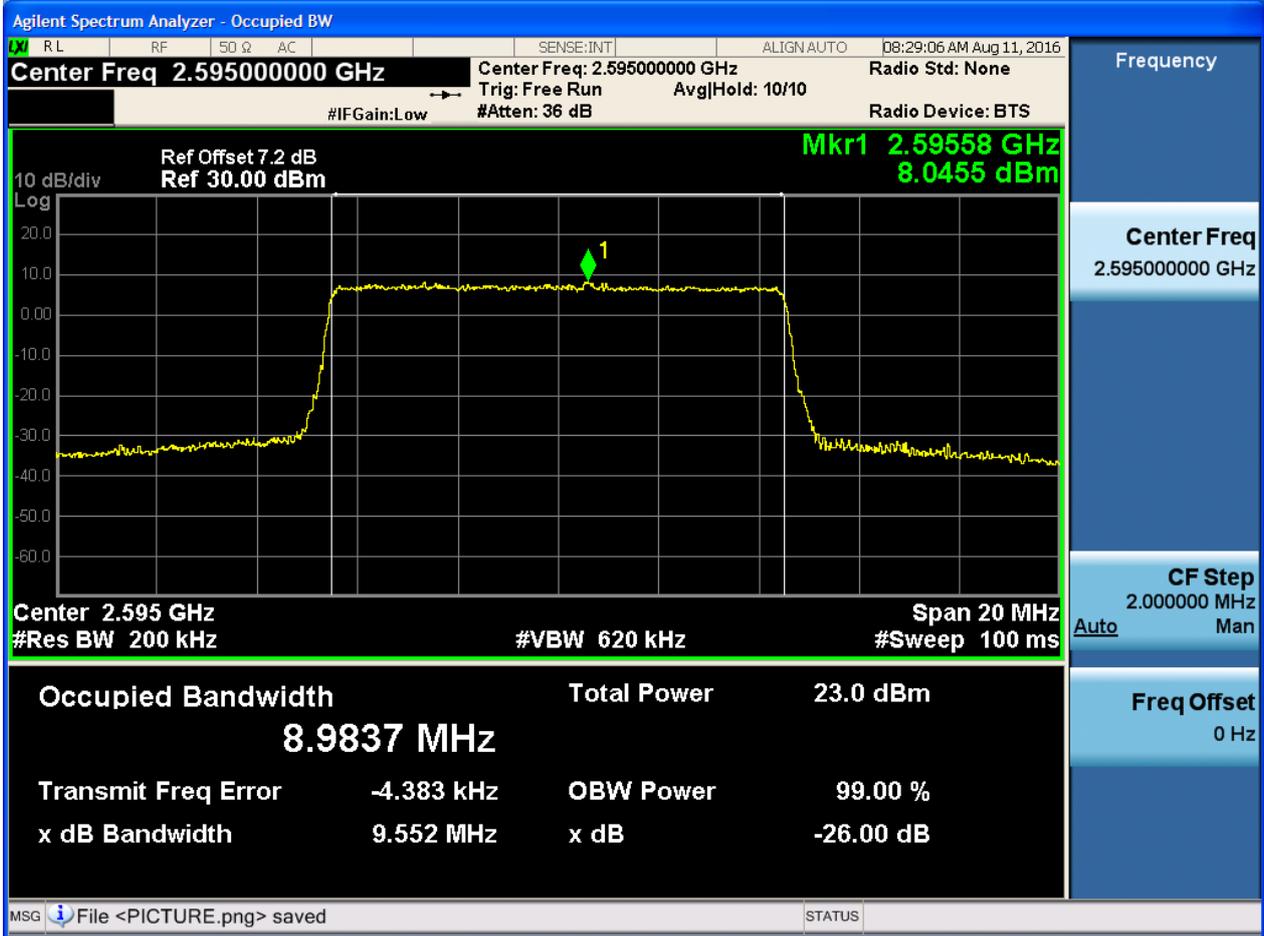
4.1.1.1.2.1.1 Test RB = RB50#0





4.1.1.1.2.2 Test Channel = MCH

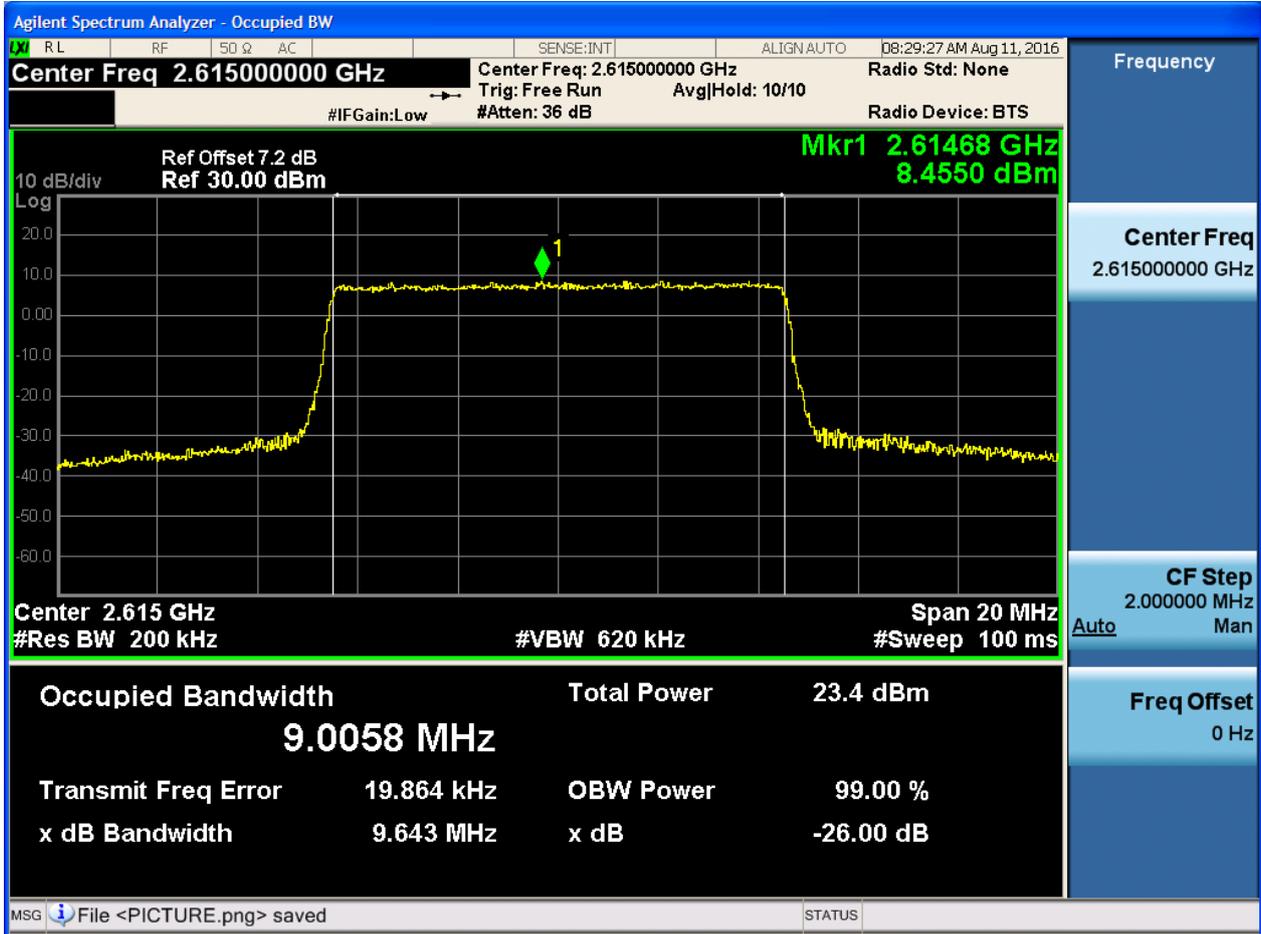
4.1.1.1.2.2.1 Test RB = RB50#0





4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 Test RB = RB50#0

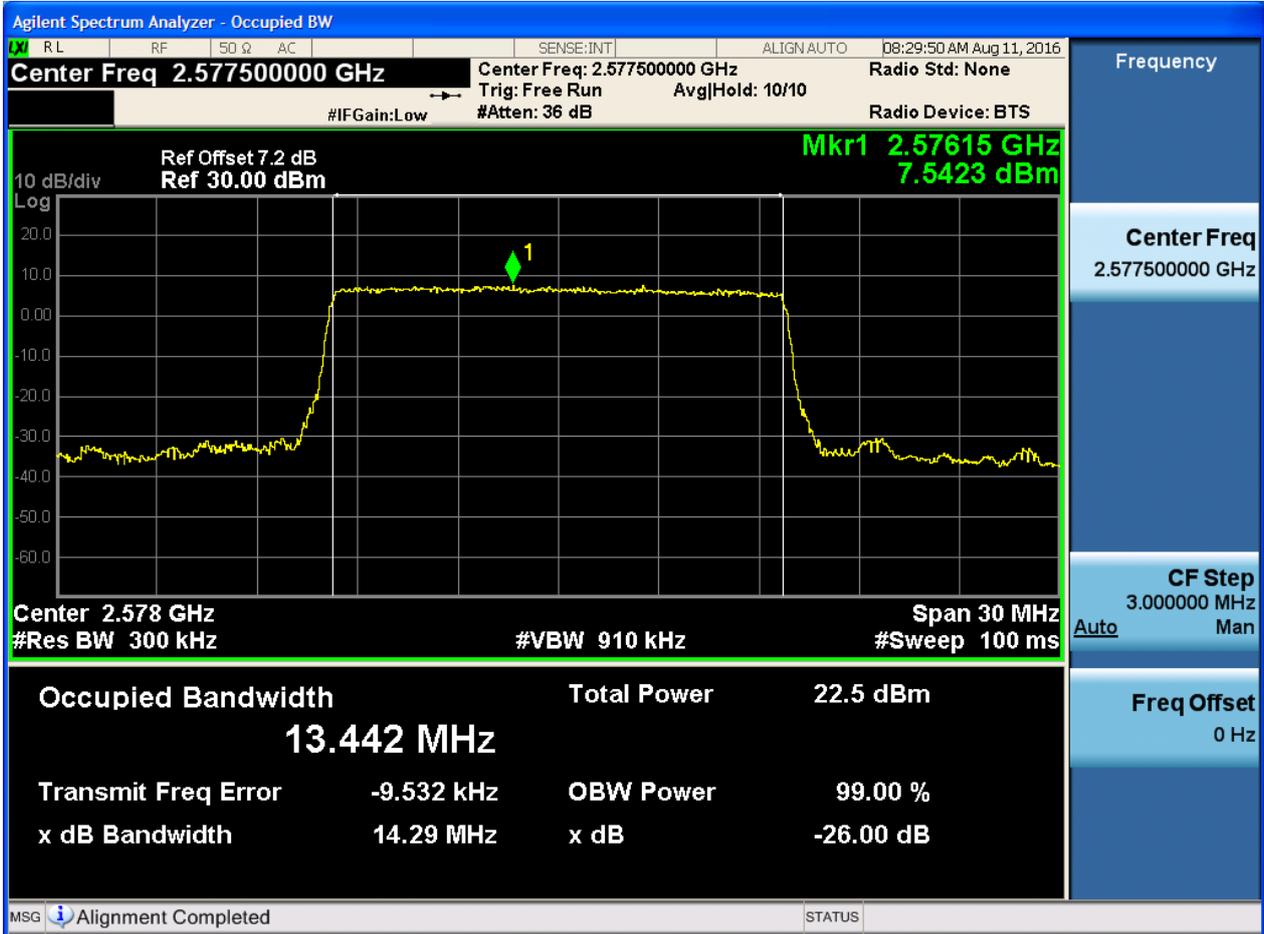




4.1.1.1.3 Test Bandwidth = 15

4.1.1.1.3.1 Test Channel = LCH

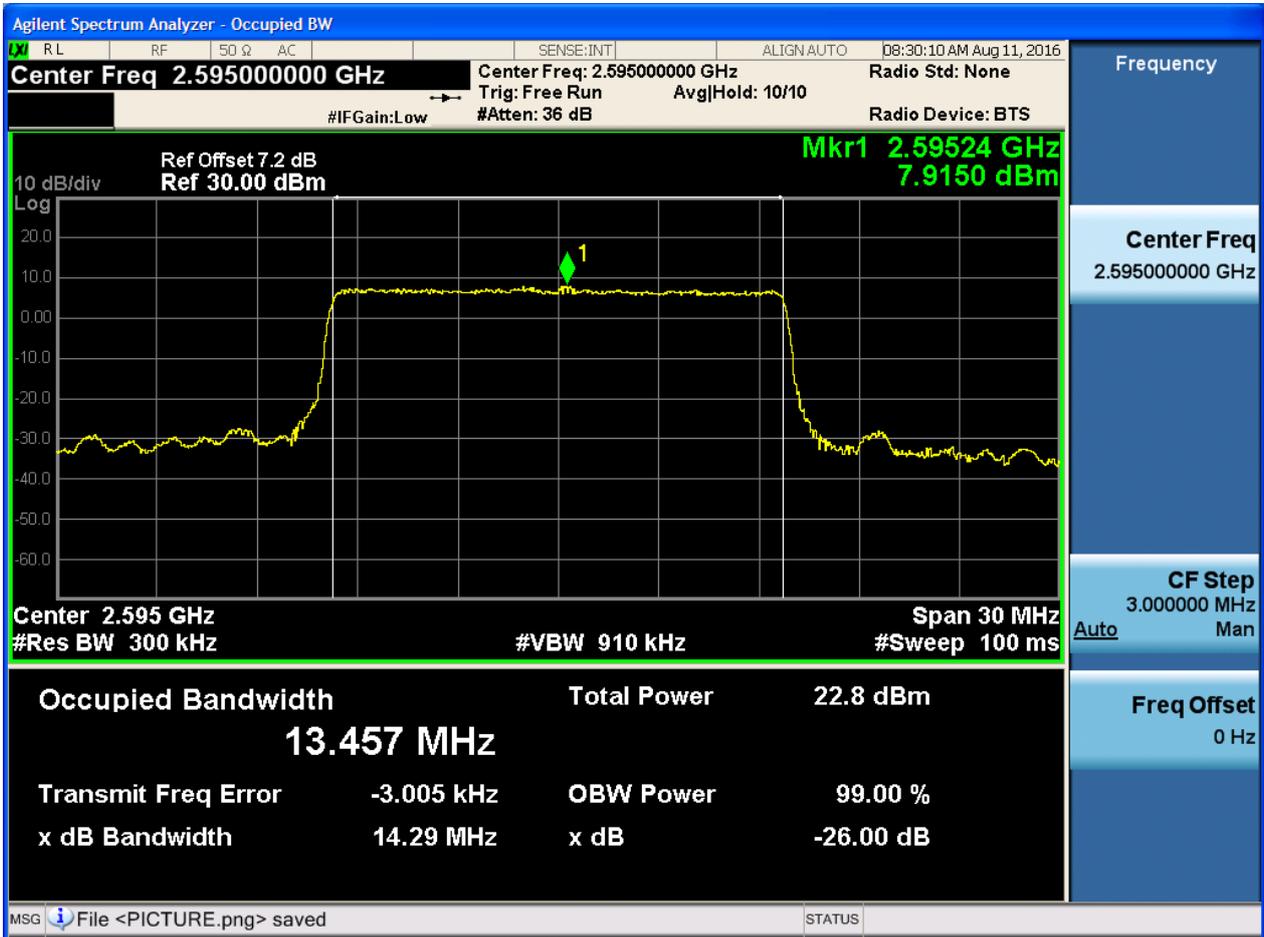
4.1.1.1.3.1.1 Test RB = RB75#0





4.1.1.1.3.2 Test Channel = MCH

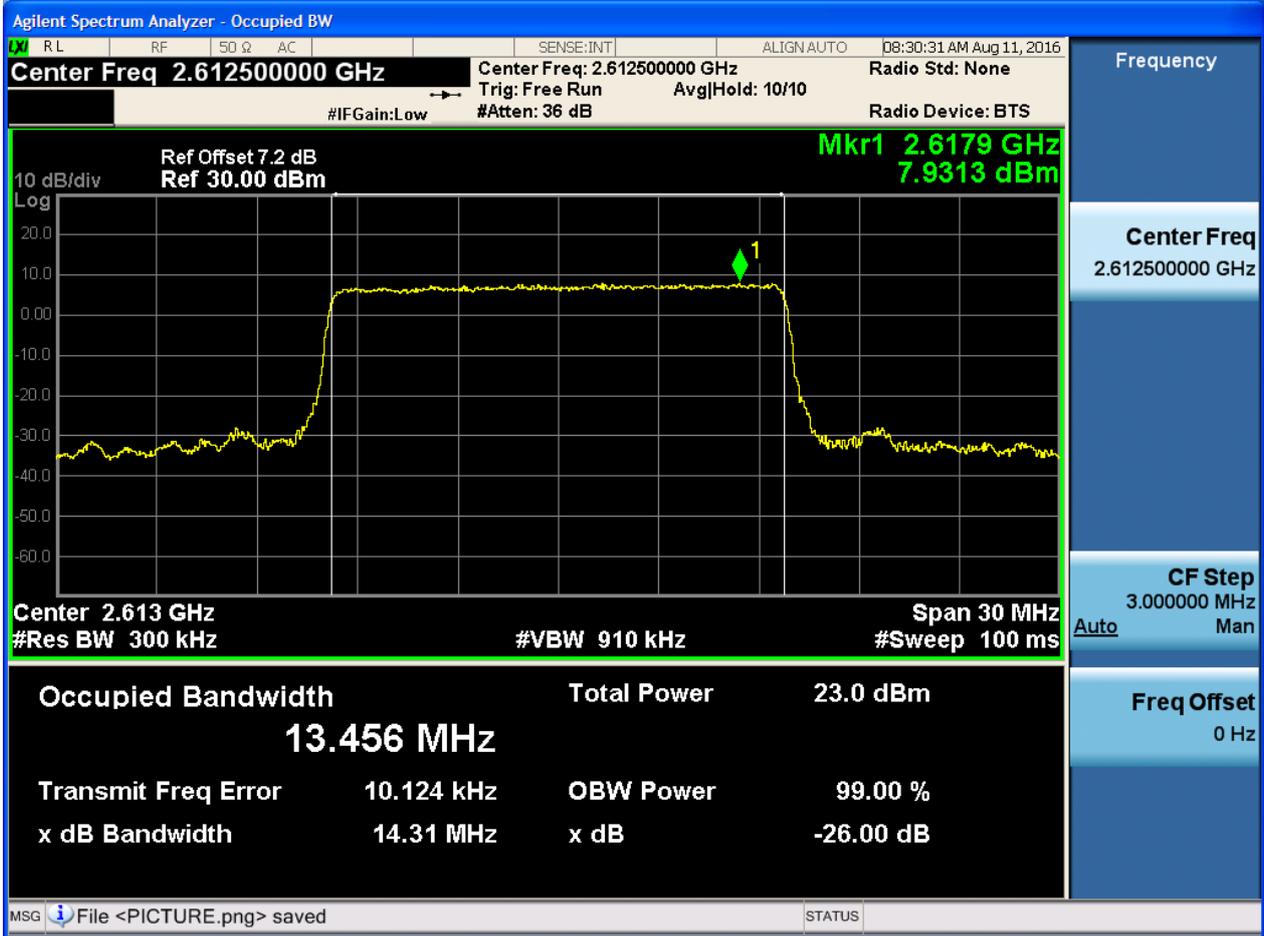
4.1.1.1.3.2.1 Test RB = RB75#0





4.1.1.1.3.3 Test Channel = HCH

4.1.1.1.3.3.1 Test RB = RB75#0

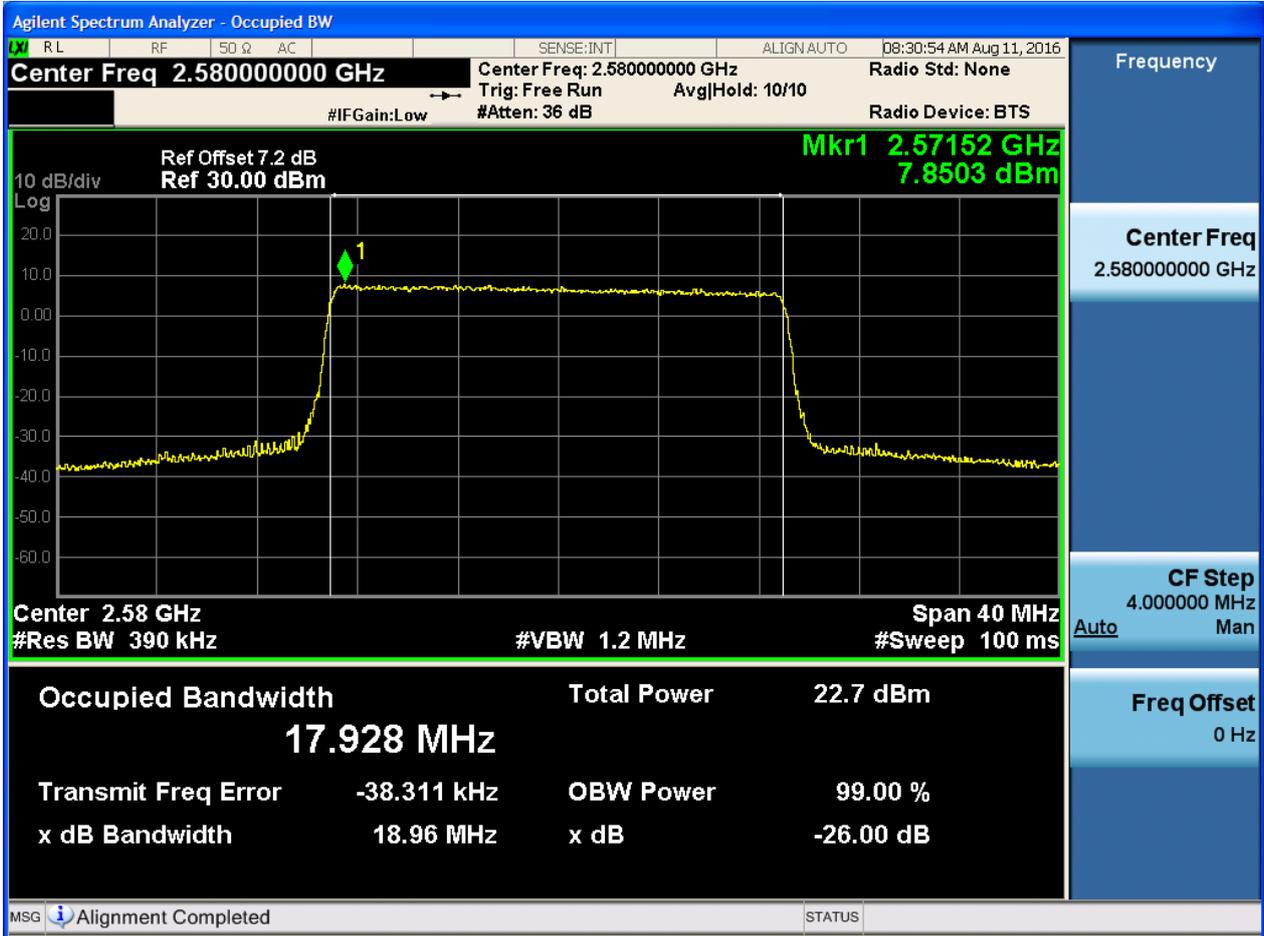




4.1.1.1.4 Test Bandwidth = 20

4.1.1.1.4.1 Test Channel = LCH

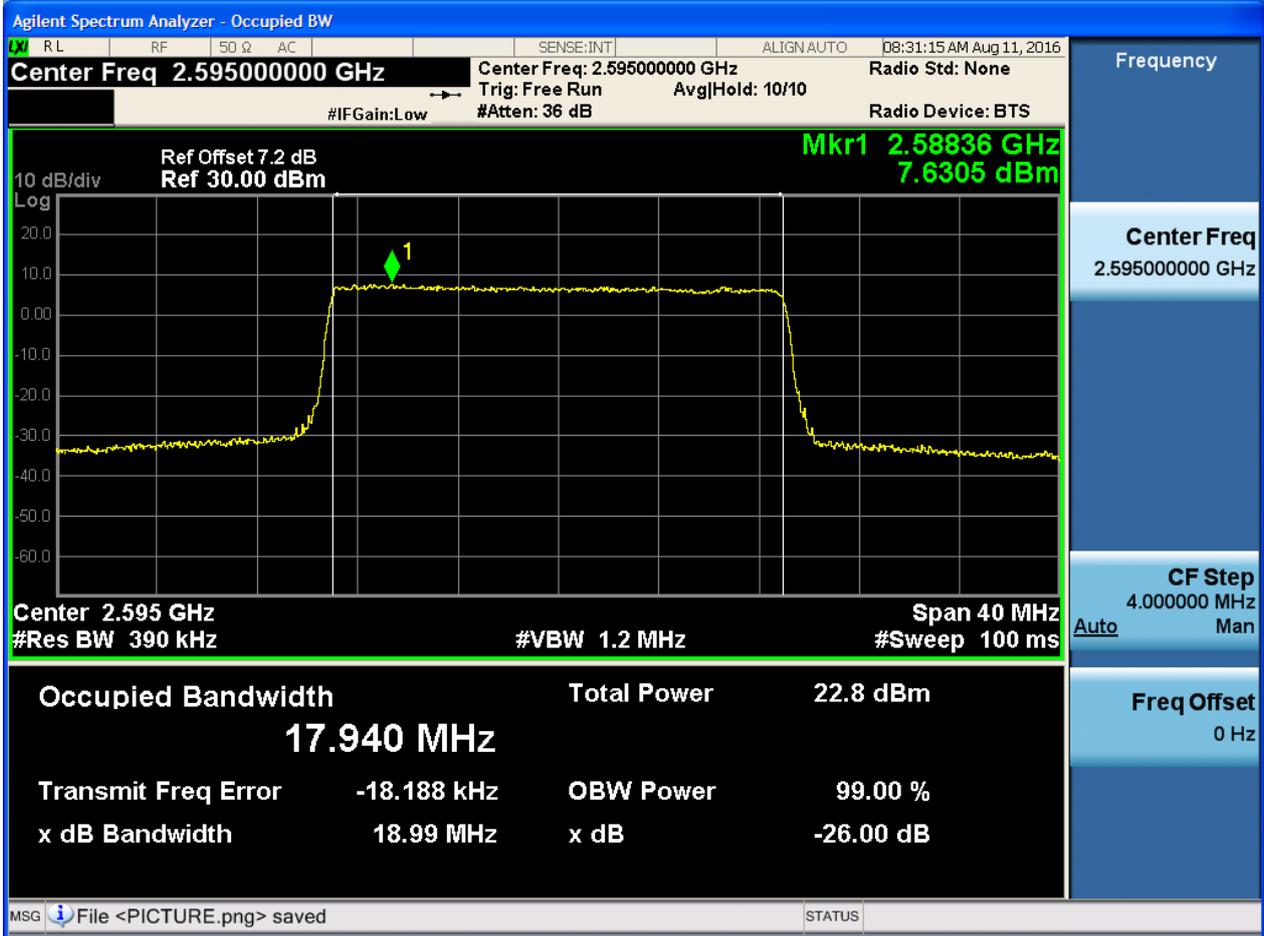
4.1.1.1.4.1.1 Test RB = RB100#0





4.1.1.1.4.2 Test Channel = MCH

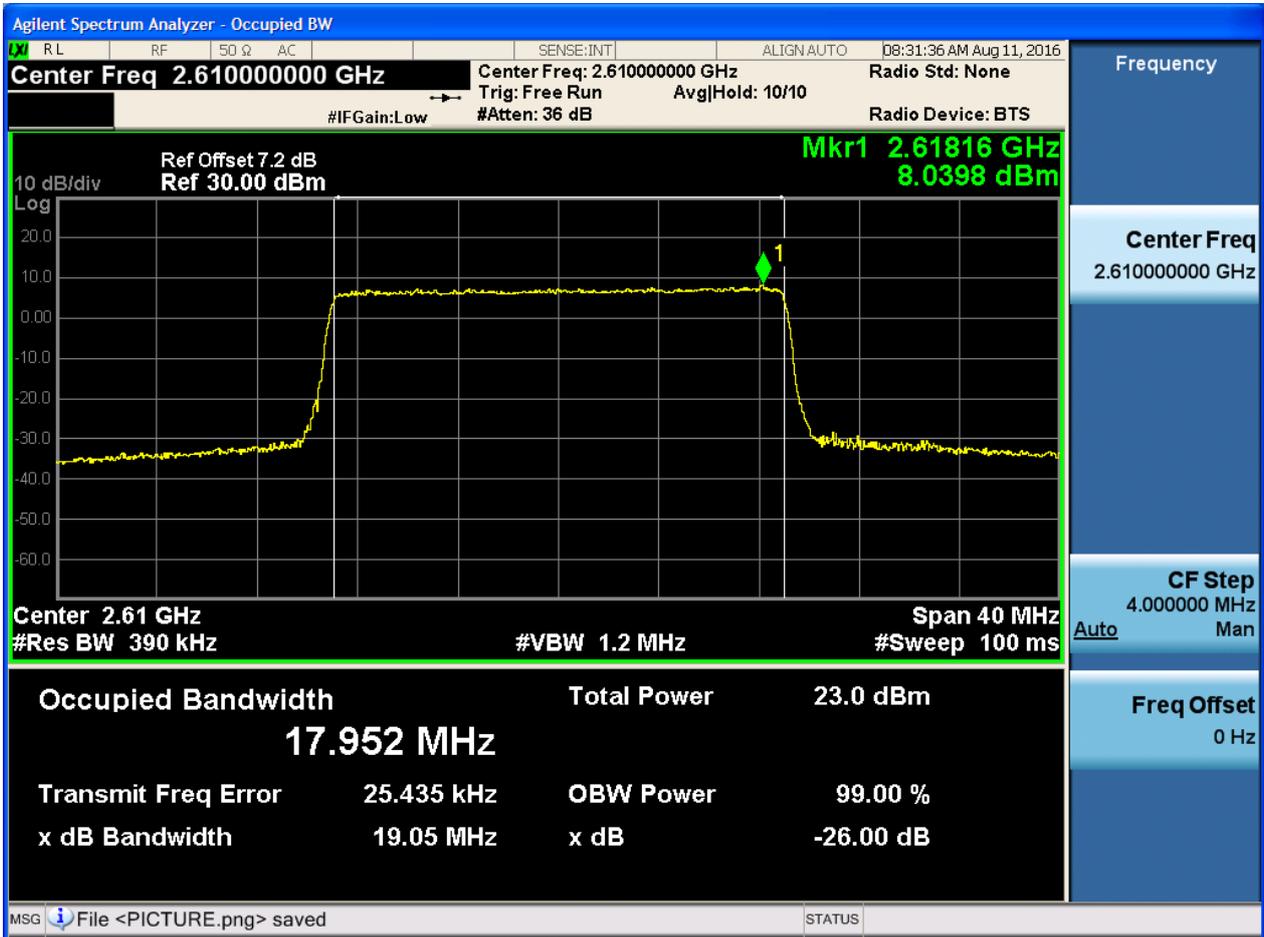
4.1.1.1.4.2.1 Test RB = RB100#0





4.1.1.1.4.3 Test Channel = HCH

4.1.1.1.4.3.1 Test RB = RB100#0



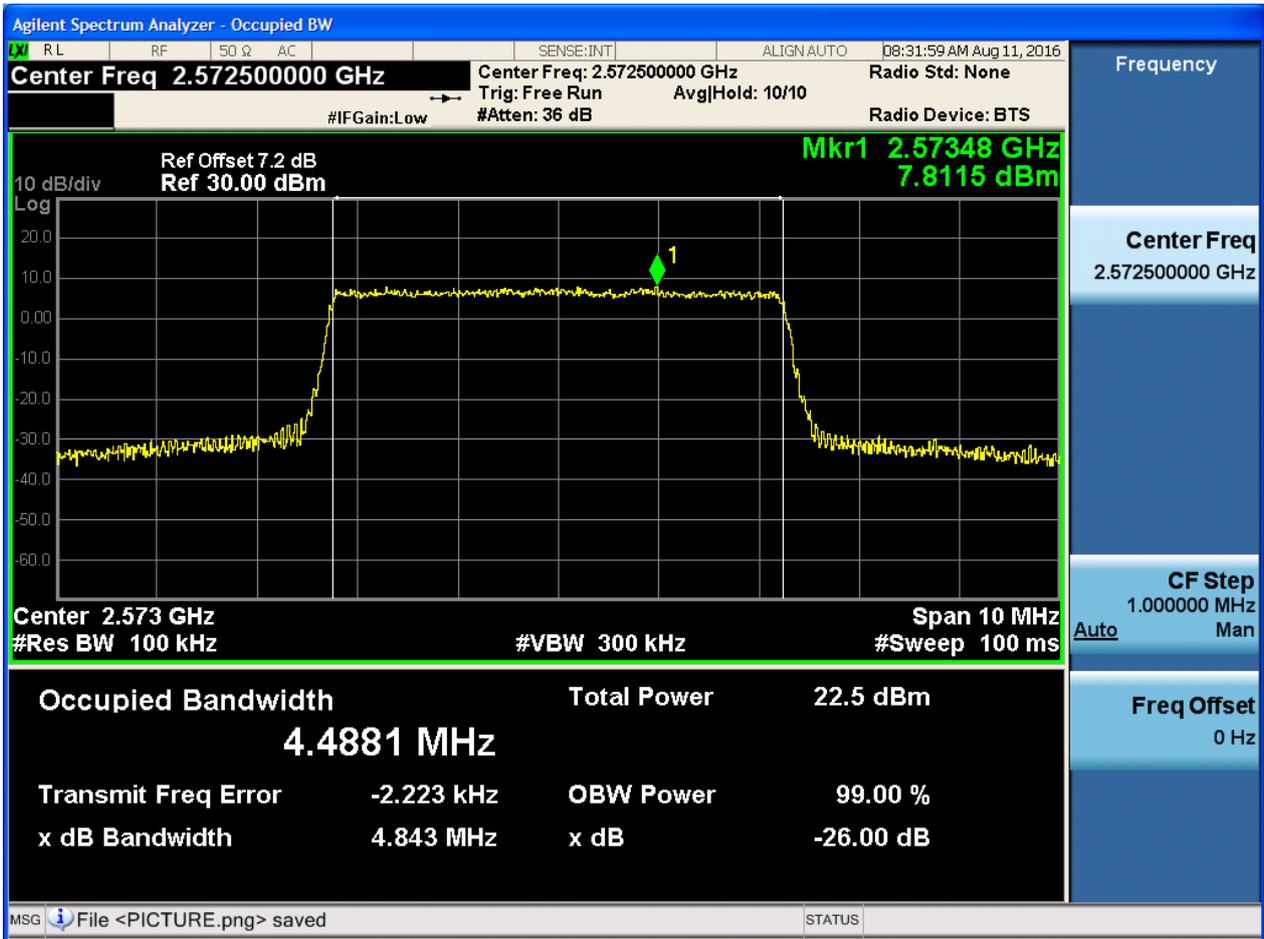


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 5

4.1.1.2.1.1 Test Channel = LCH

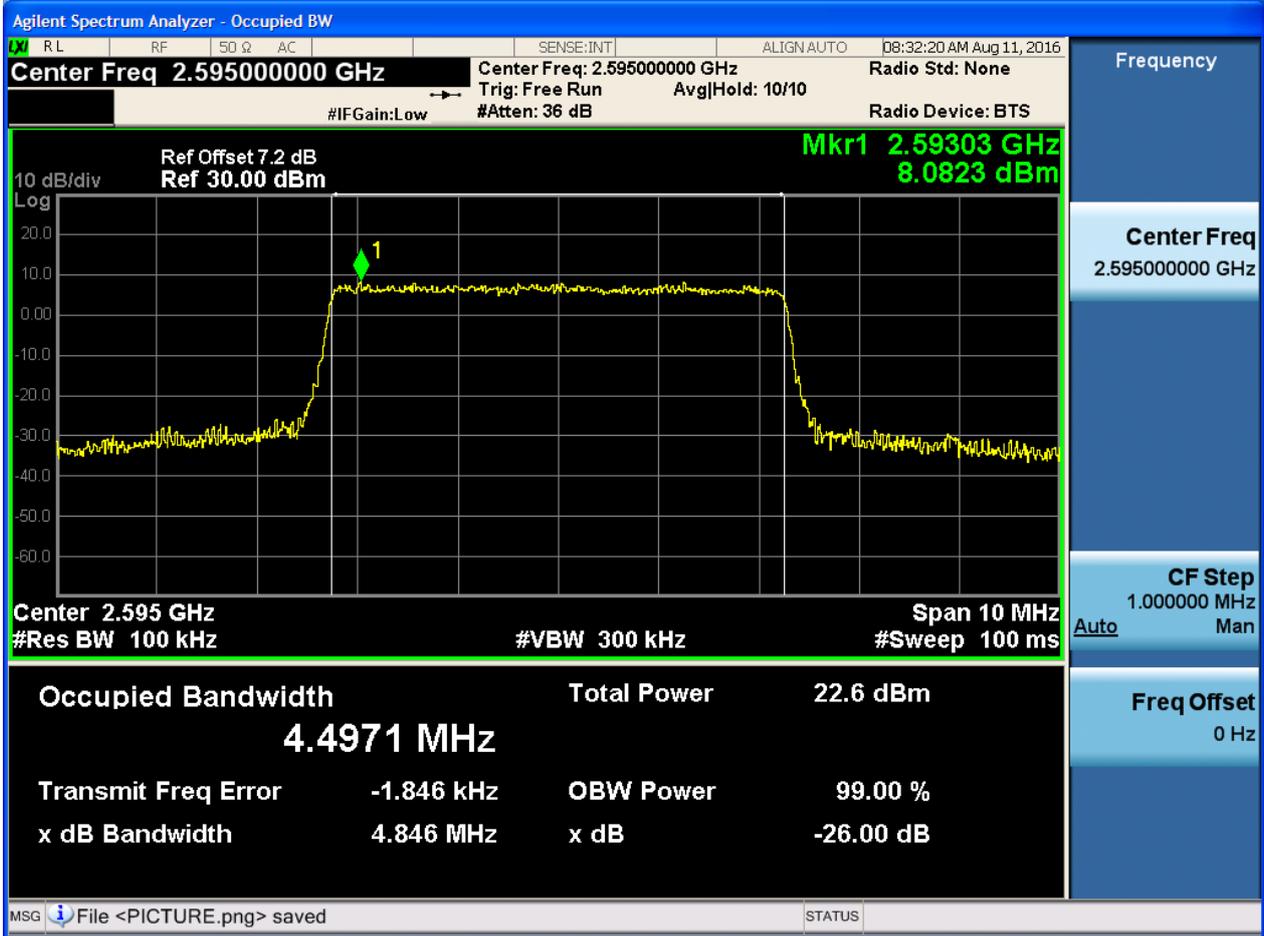
4.1.1.2.1.1.1 Test RB = RB25#0





4.1.1.2.1.2 Test Channel = MCH

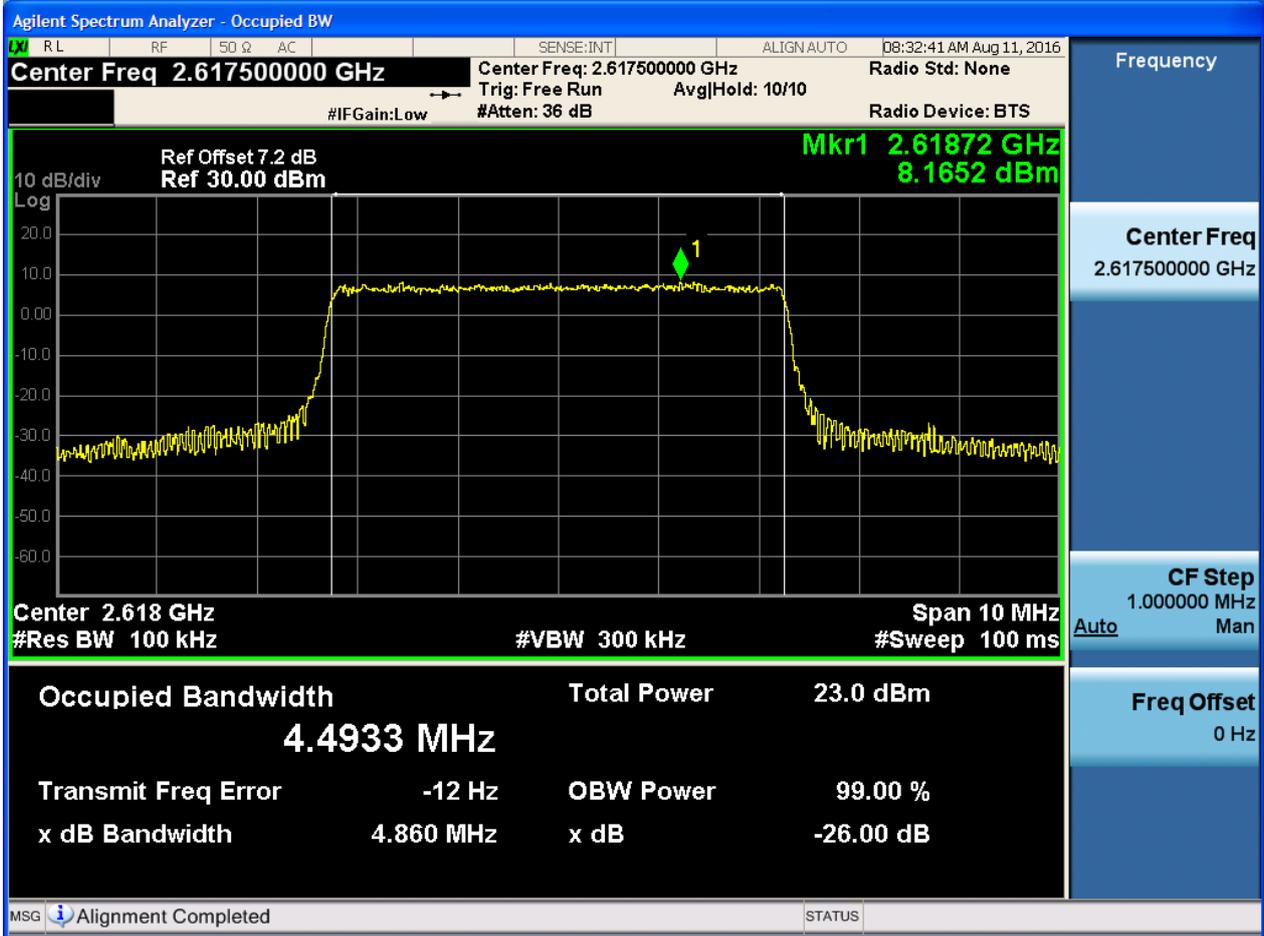
4.1.1.2.1.2.1 Test RB = RB25#0





4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB25#0

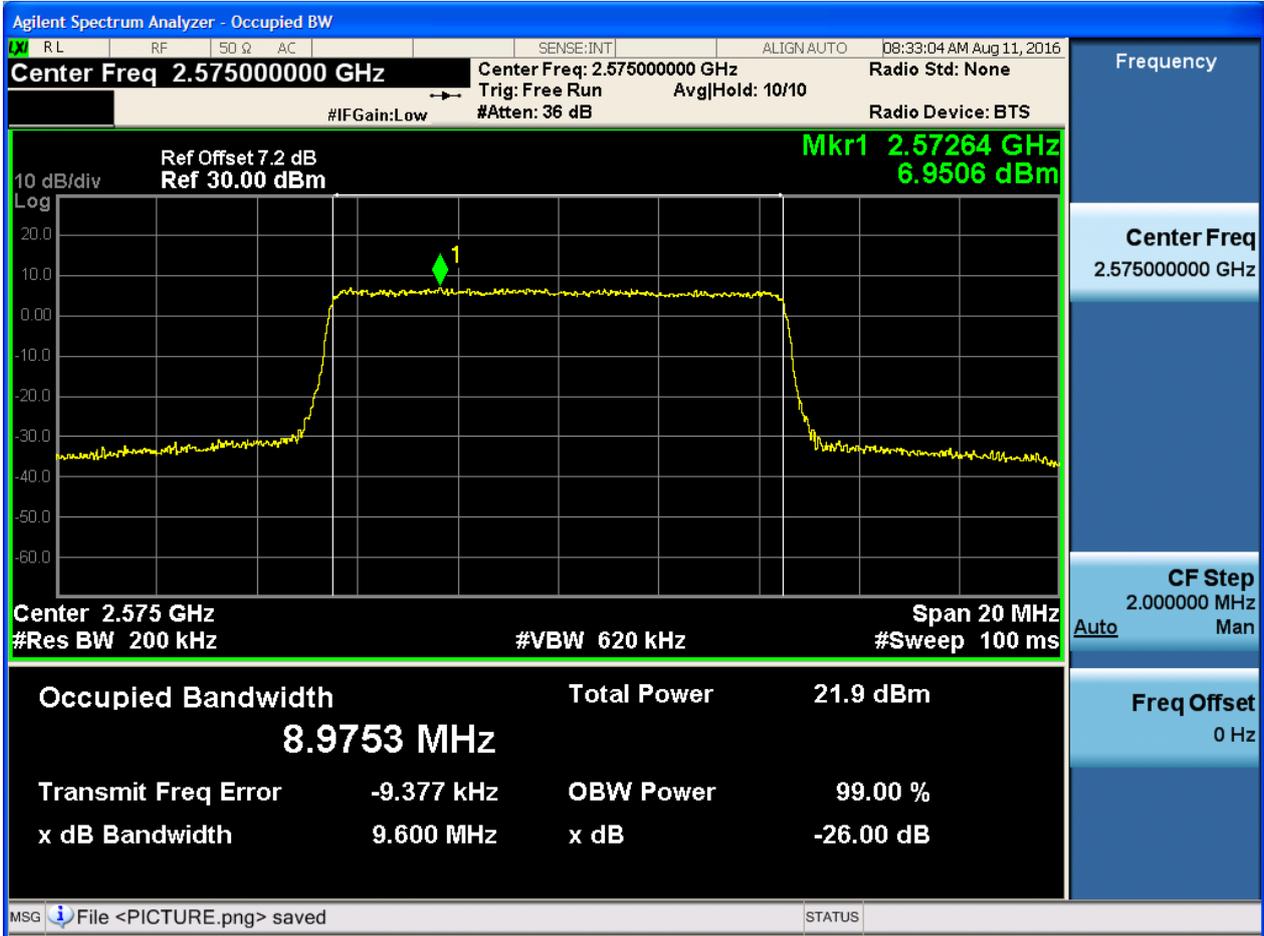




4.1.1.2.2 Test Bandwidth = 10

4.1.1.2.2.1 Test Channel = LCH

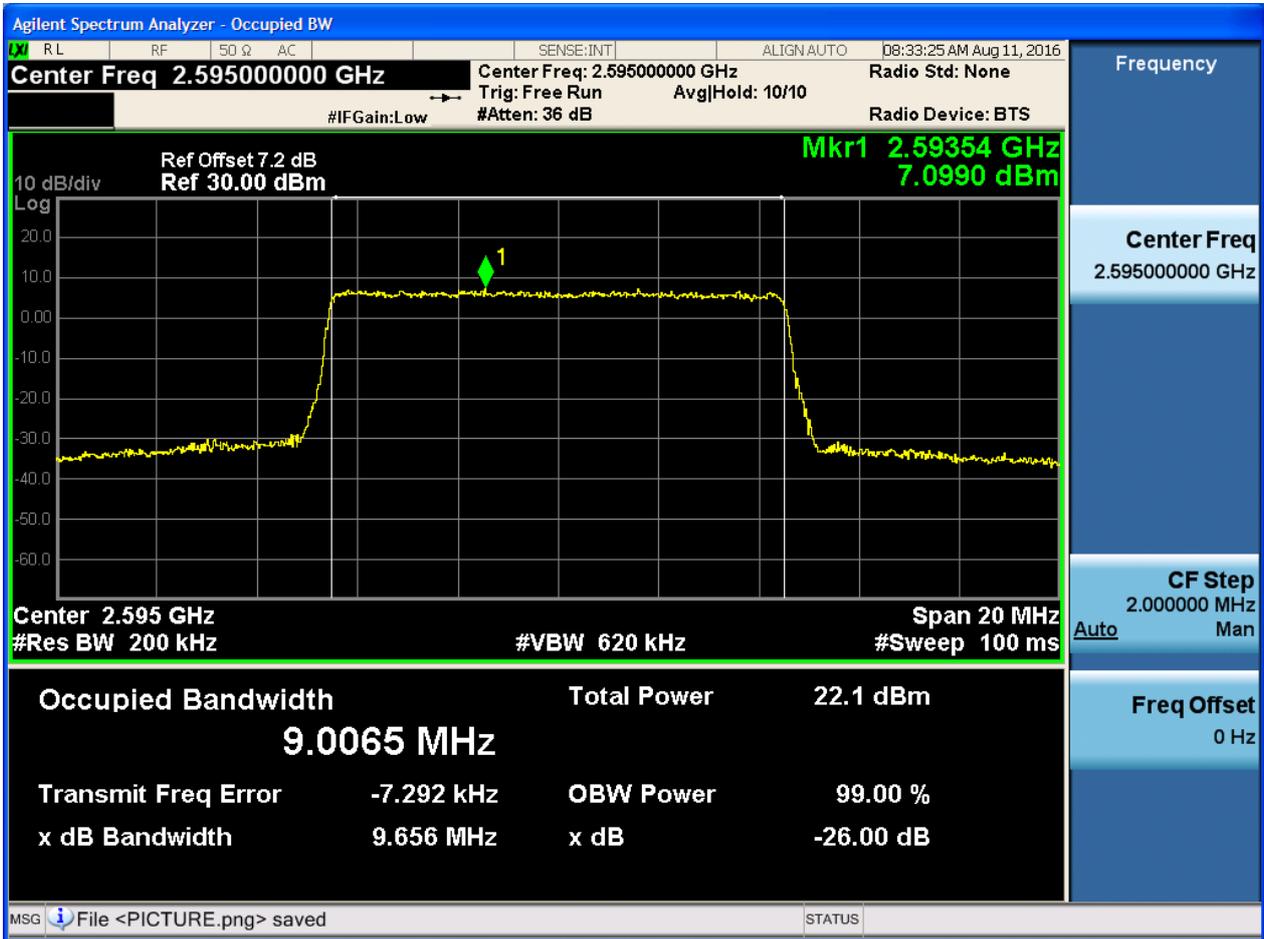
4.1.1.2.2.1.1 Test RB = RB50#0





4.1.1.2.2.2 Test Channel = MCH

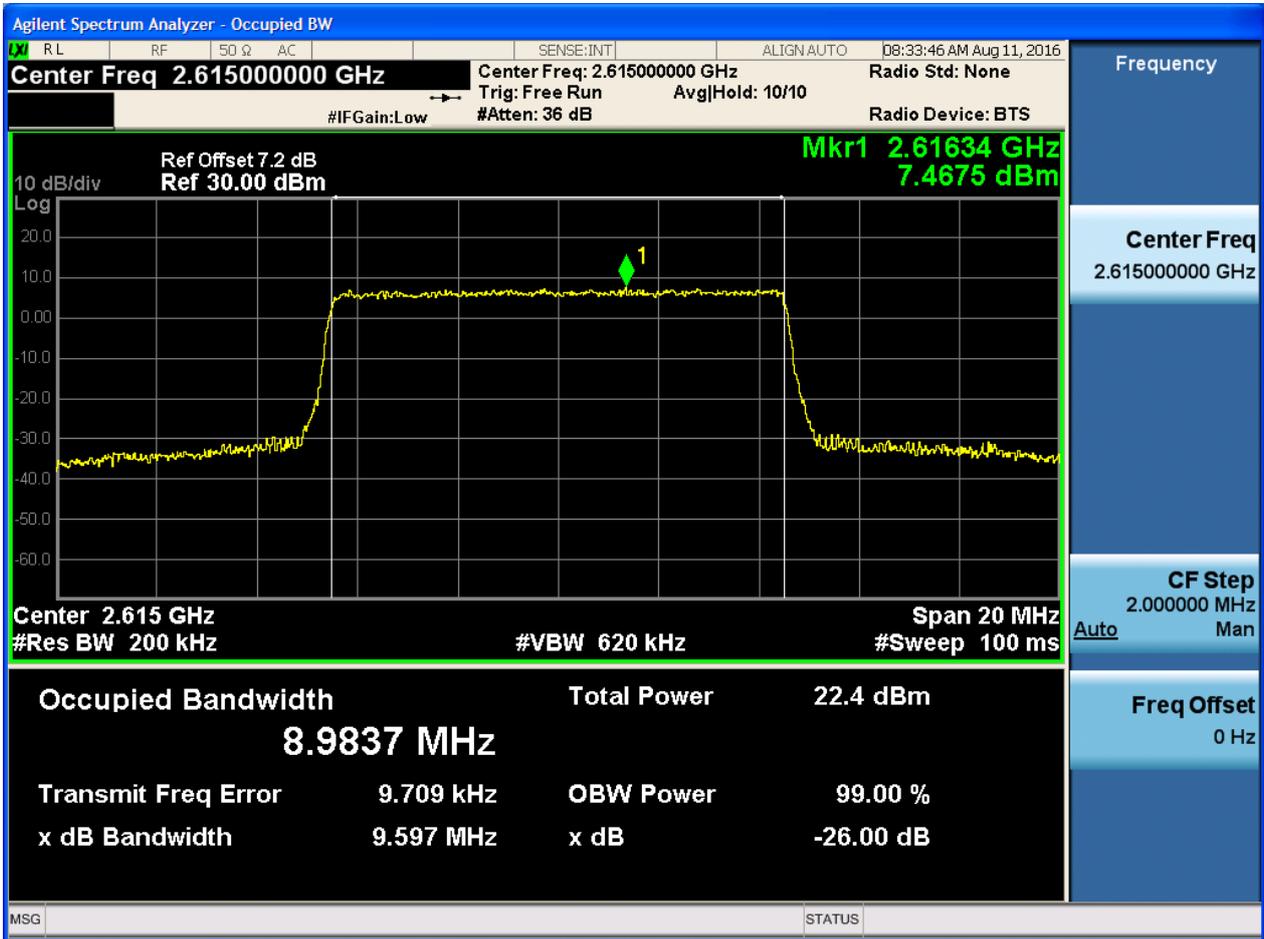
4.1.1.2.2.2.1 Test RB = RB50#0





4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB50#0

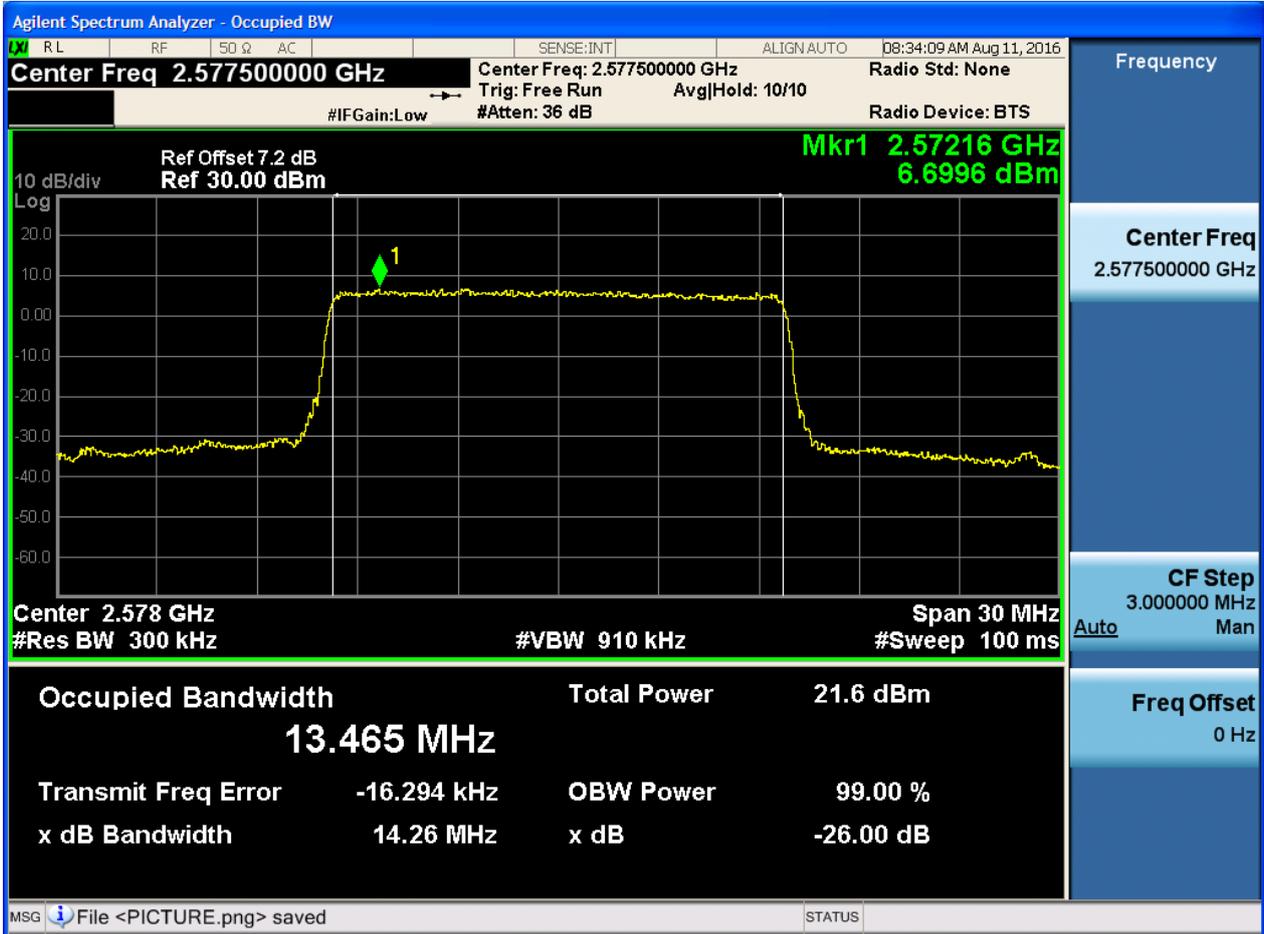




4.1.1.2.3 Test Bandwidth = 15

4.1.1.2.3.1 Test Channel = LCH

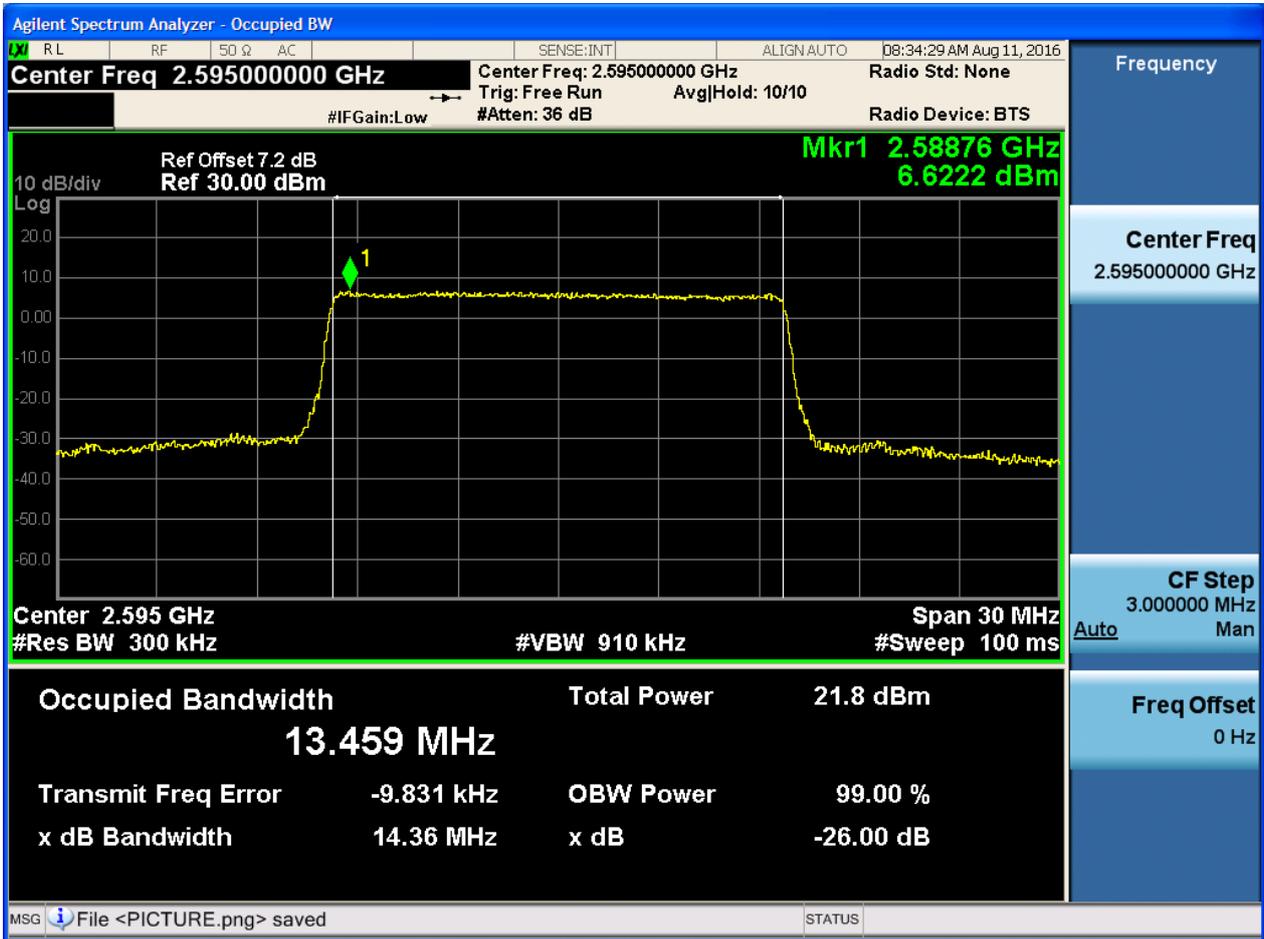
4.1.1.2.3.1.1 Test RB = RB75#0





4.1.1.2.3.2 Test Channel = MCH

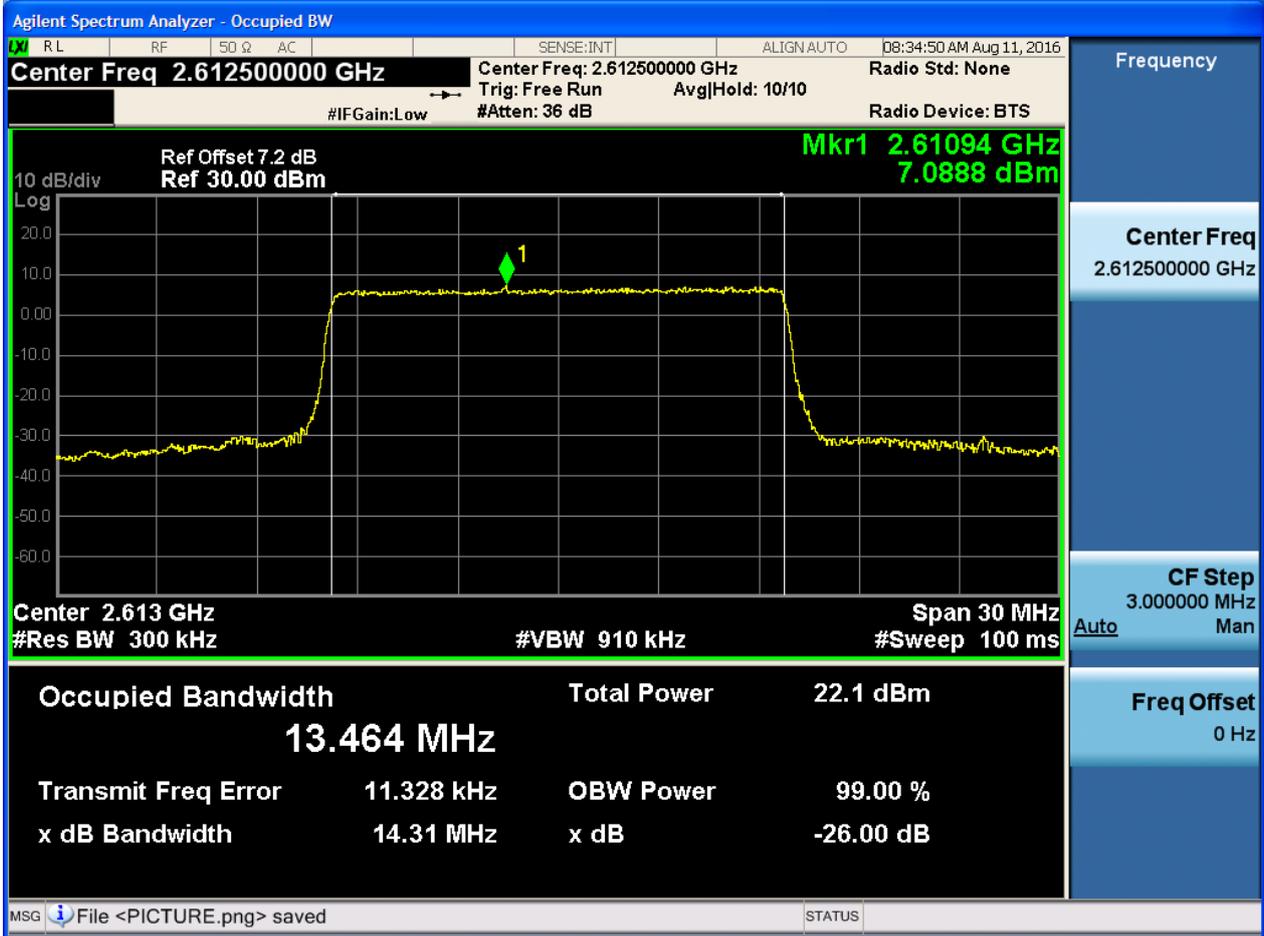
4.1.1.2.3.2.1 Test RB = RB75#0





4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB75#0

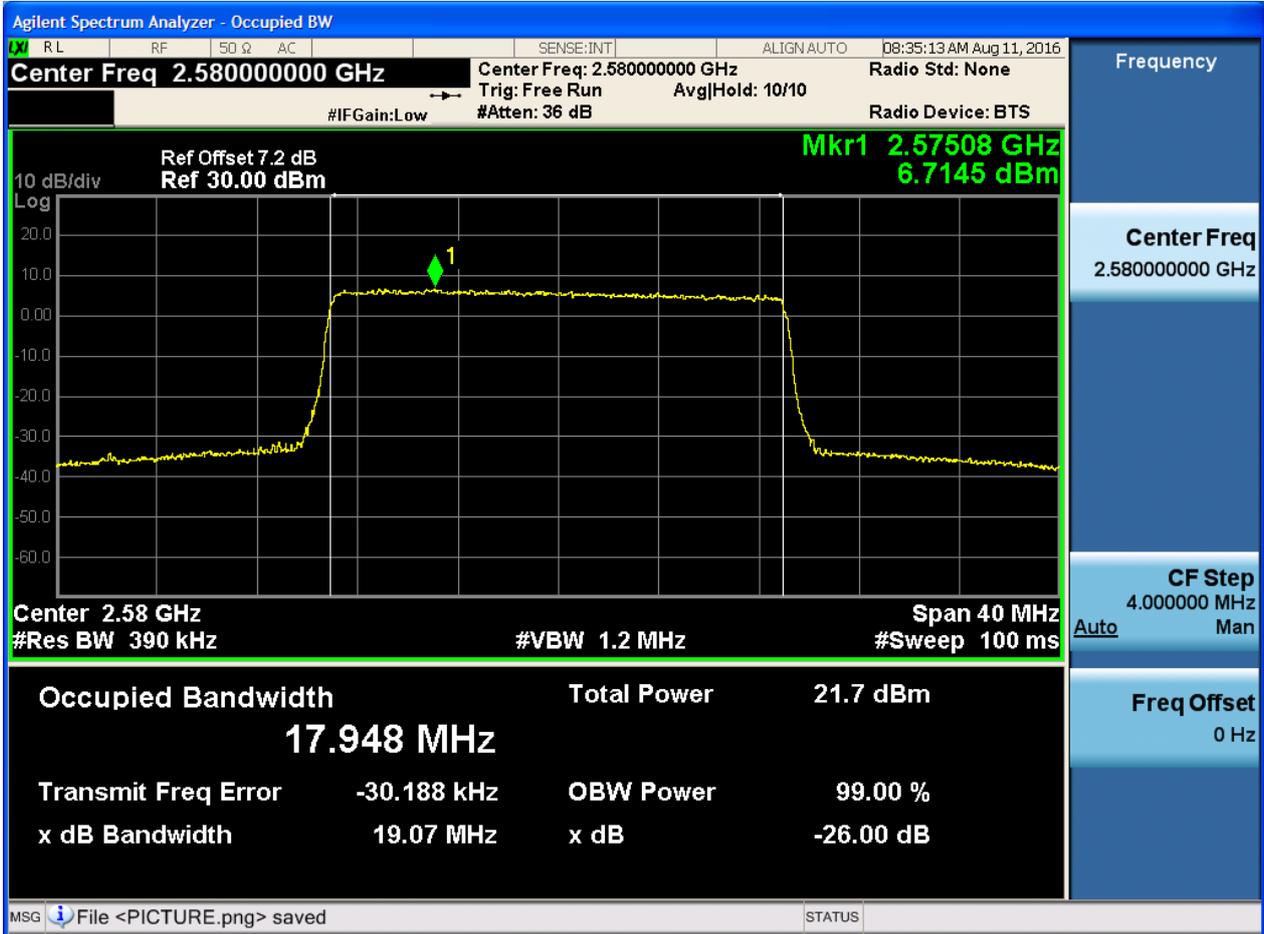




4.1.1.2.4 Test Bandwidth = 20

4.1.1.2.4.1 Test Channel = LCH

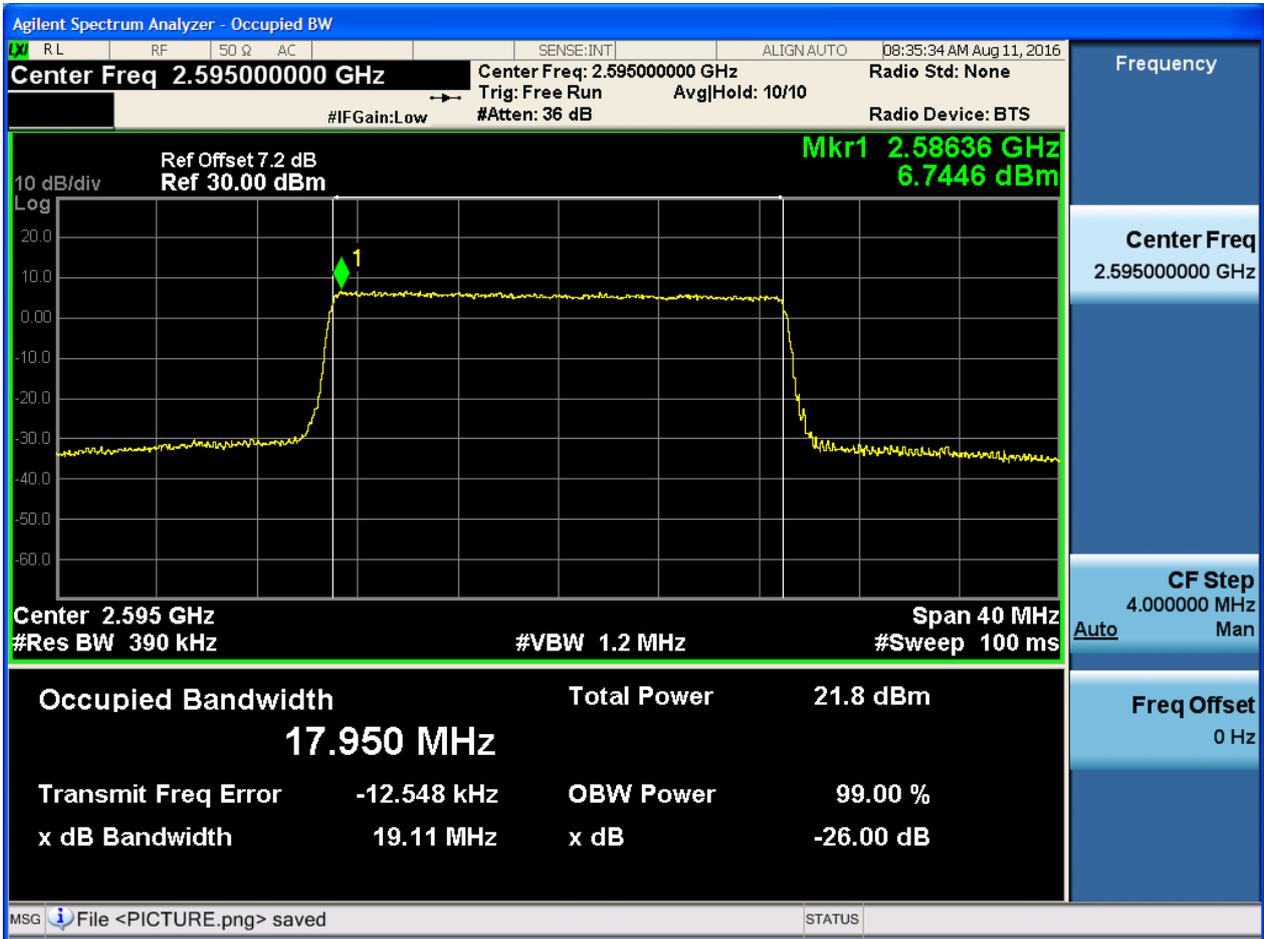
4.1.1.2.4.1.1 Test RB = RB100#0





4.1.1.2.4.2 Test Channel = MCH

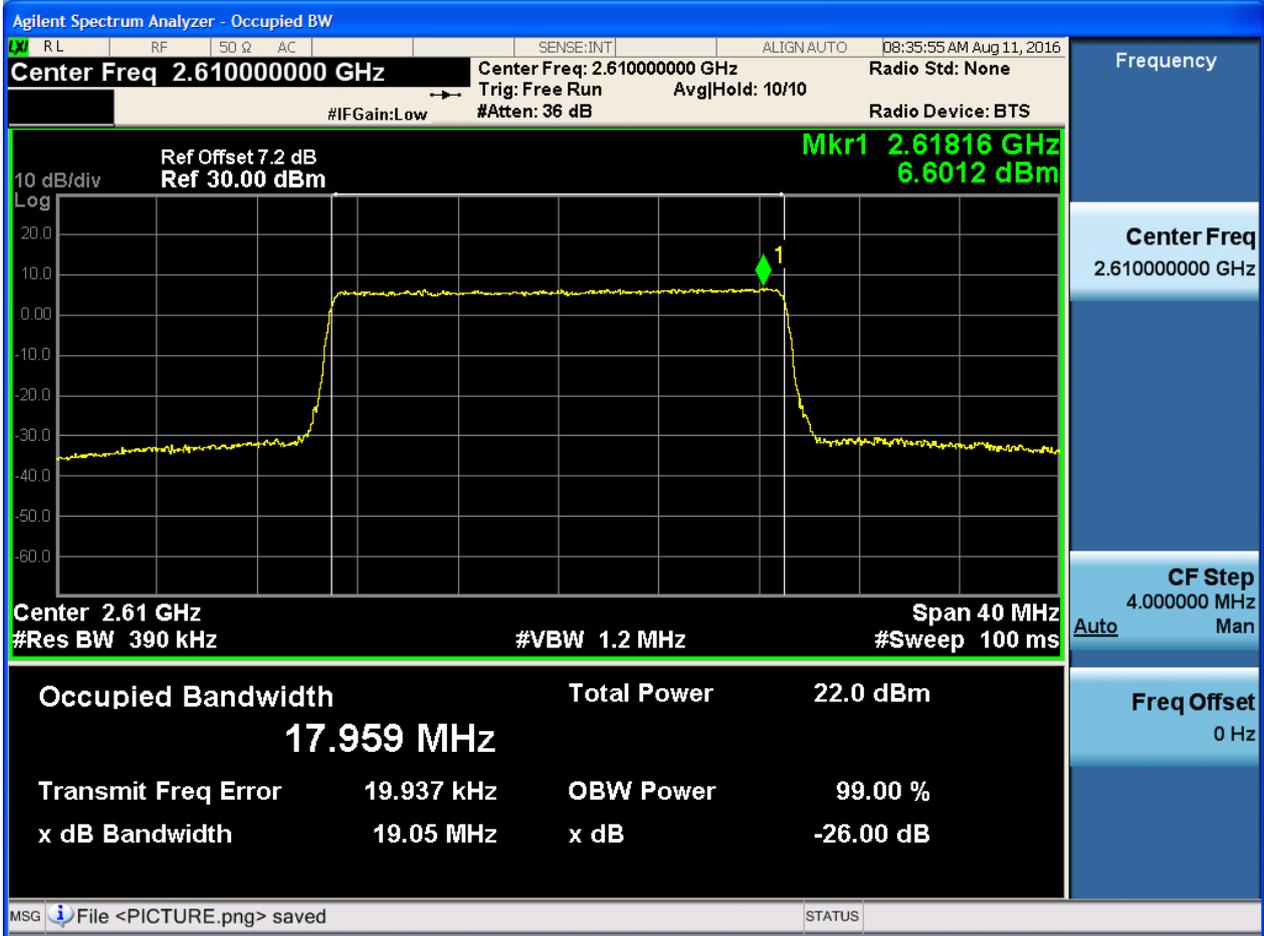
4.1.1.2.4.2.1 Test RB = RB100#0





4.1.1.2.4.3 Test Channel = HCH

4.1.1.2.4.3.1 Test RB = RB100#0





## 5Appendix\_E: Band Edges Compliance

### Part I - Test Plots

#### 5.1 For LTE

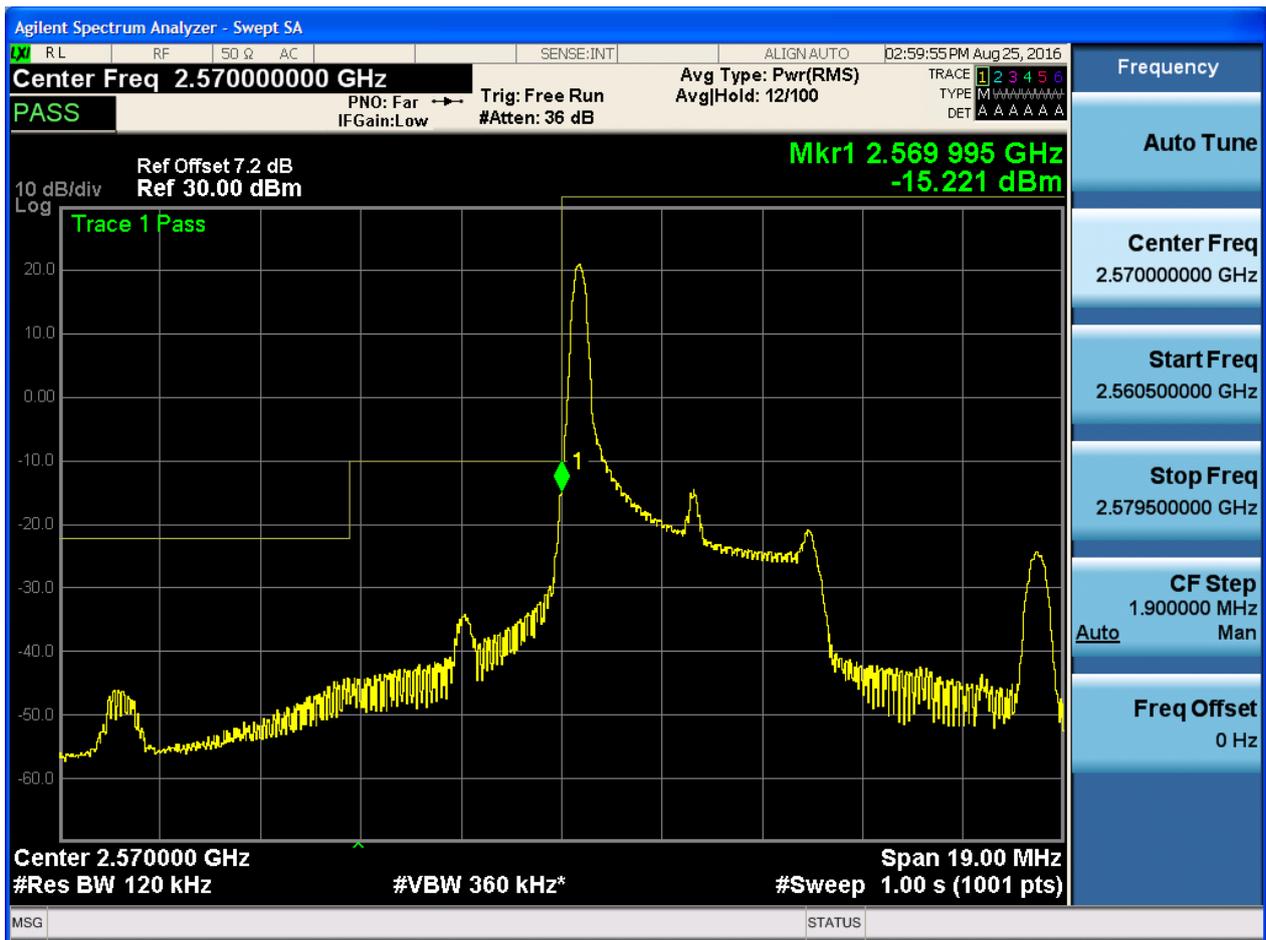
##### 5.1.1 Test Band = BAND38

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

##### 5.1.1.1.1 Test Bandwidth = 5

##### 5.1.1.1.1.1 Test Channel = LCH

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



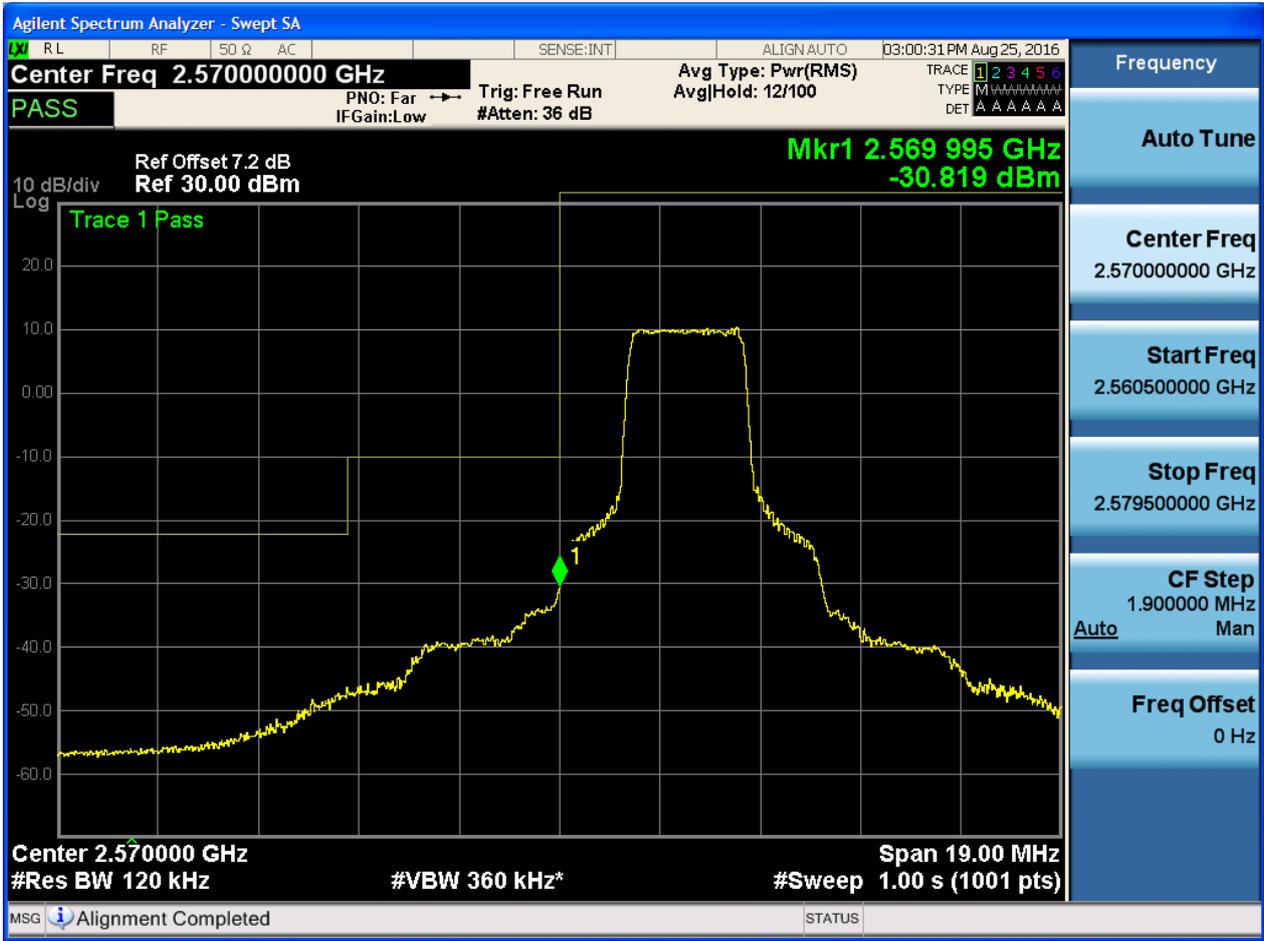


5.2.1.1.1.2 Test RB = RB1#24





5.2.1.1.1.3 Test RB = RB12#6





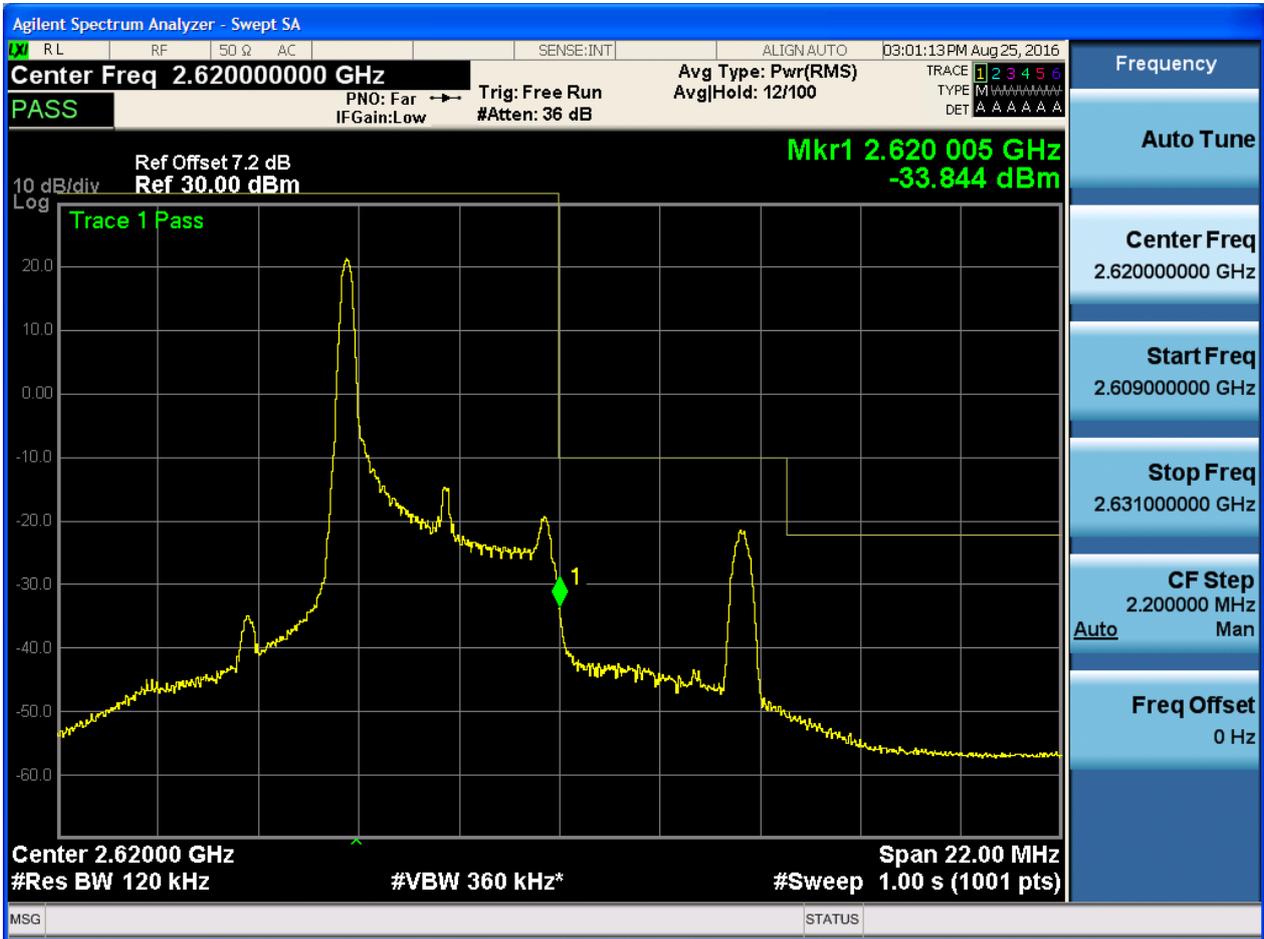
5.2.1.1.1.4 Test RB = RB25#0





5.2.1.1.1.2 Test Channel = HCH

5.2.1.1.1.2.1 Test RB = RB1#0



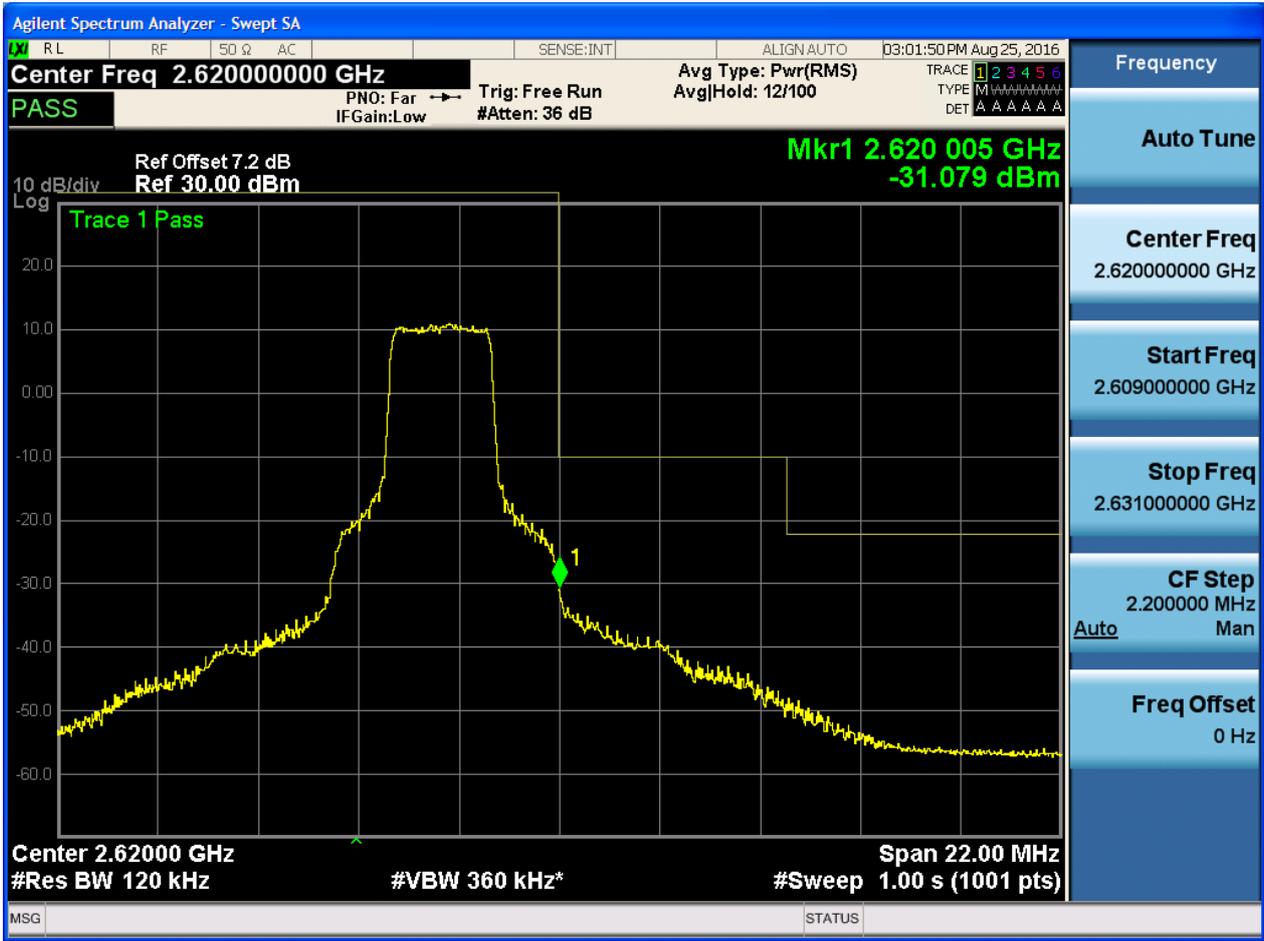


5.2.1.1.1.2.2 Test RB = RB1#24



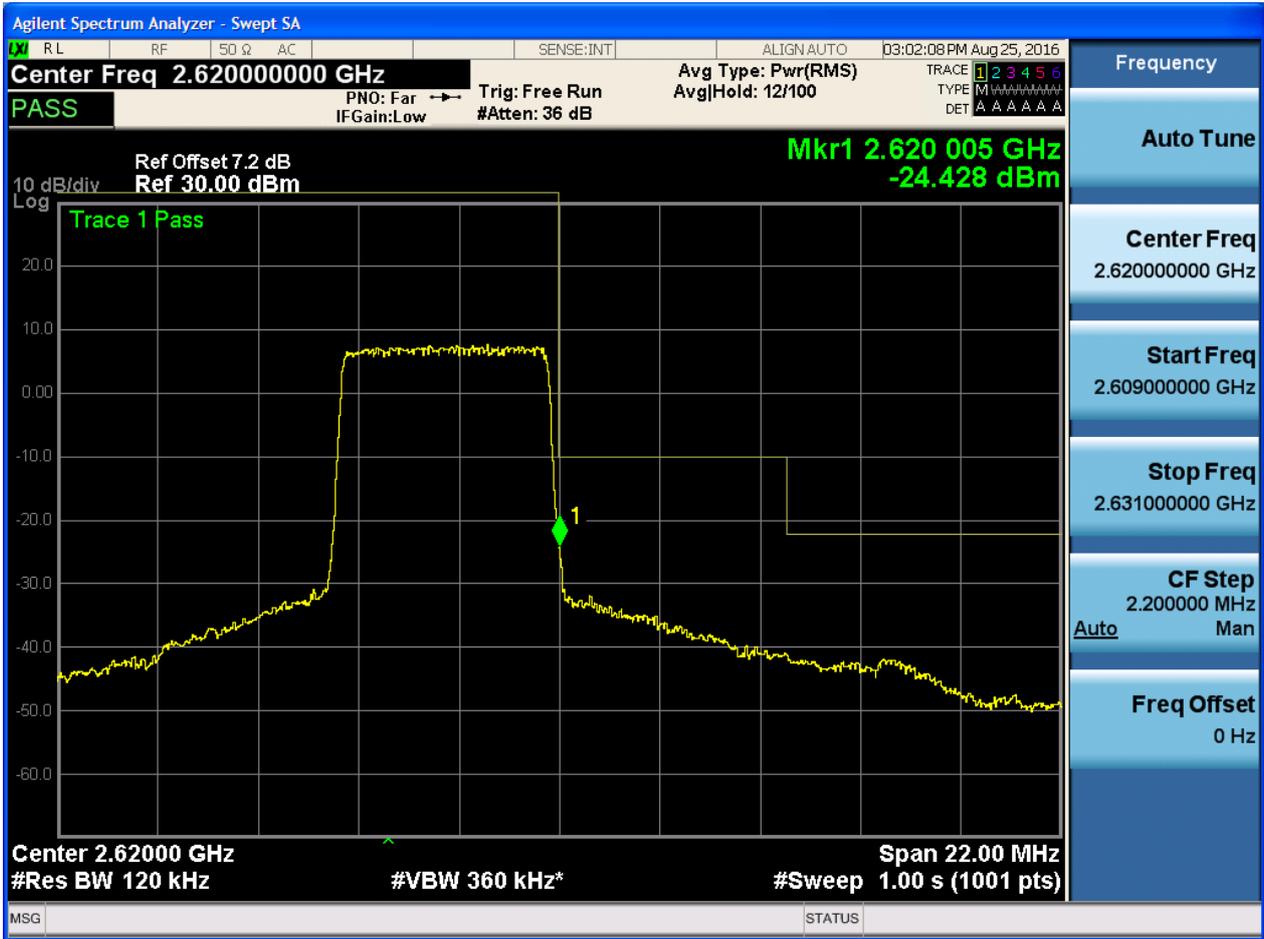


5.2.1.1.1.2.3 Test RB = RB12#6





5.2.1.1.1.2.4 Test RB = RB25#0

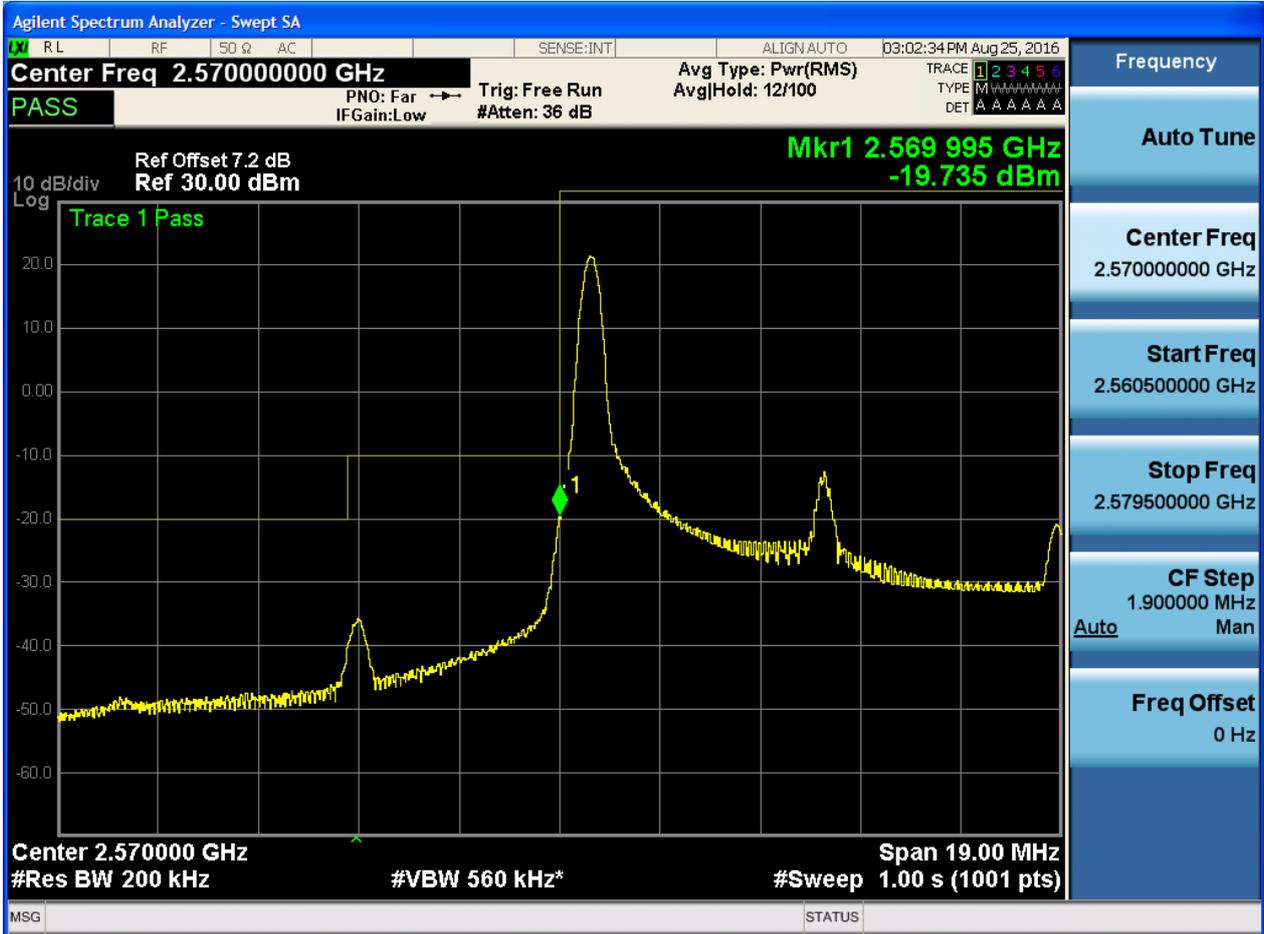




5.2.1.1.2 Test Bandwidth = 10

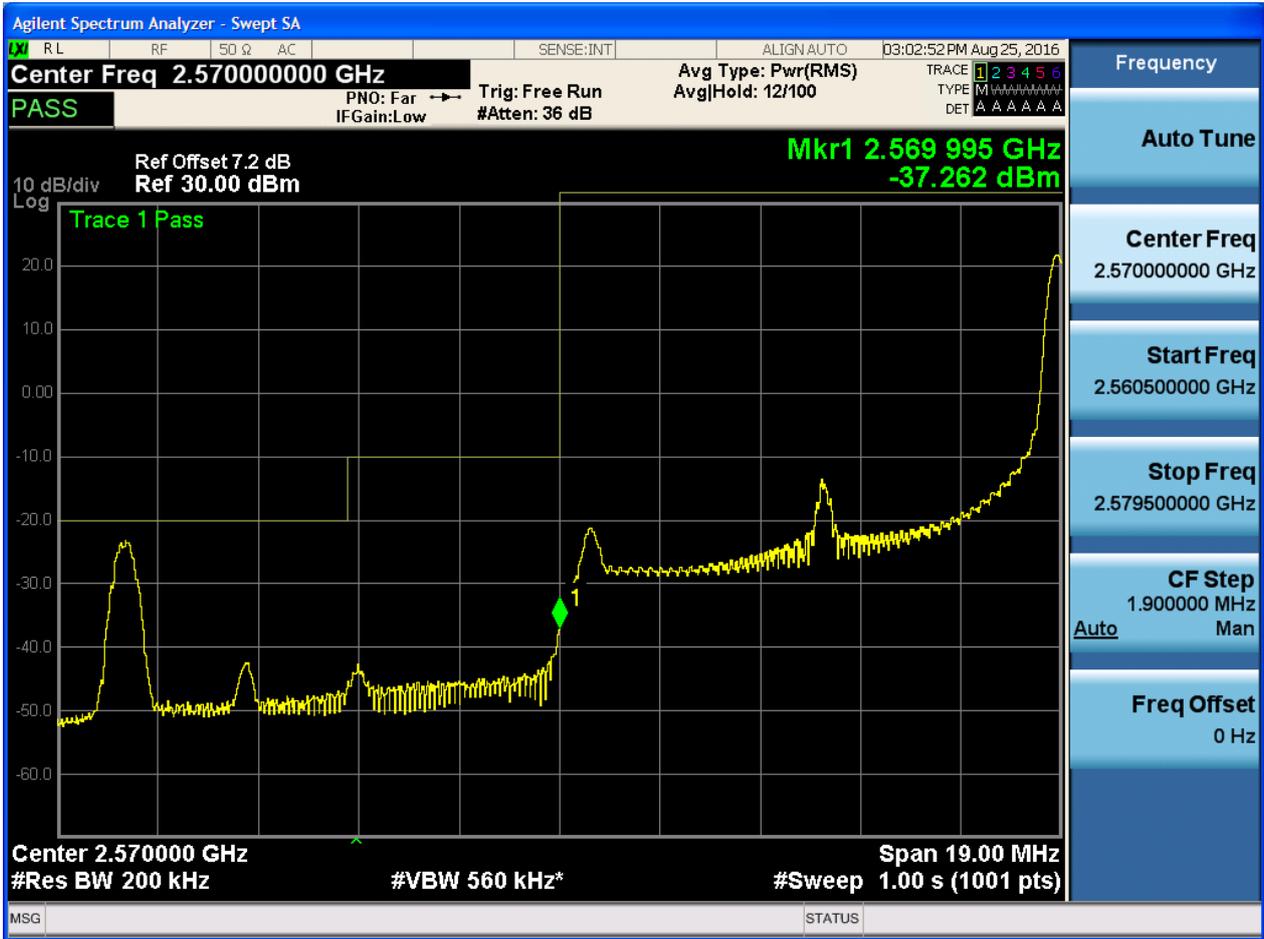
5.2.1.1.2.1 Test Channel = LCH

5.2.1.1.2.1.1 Test RB = RB1#0





5.2.1.1.2.1.2 Test RB = RB1#49



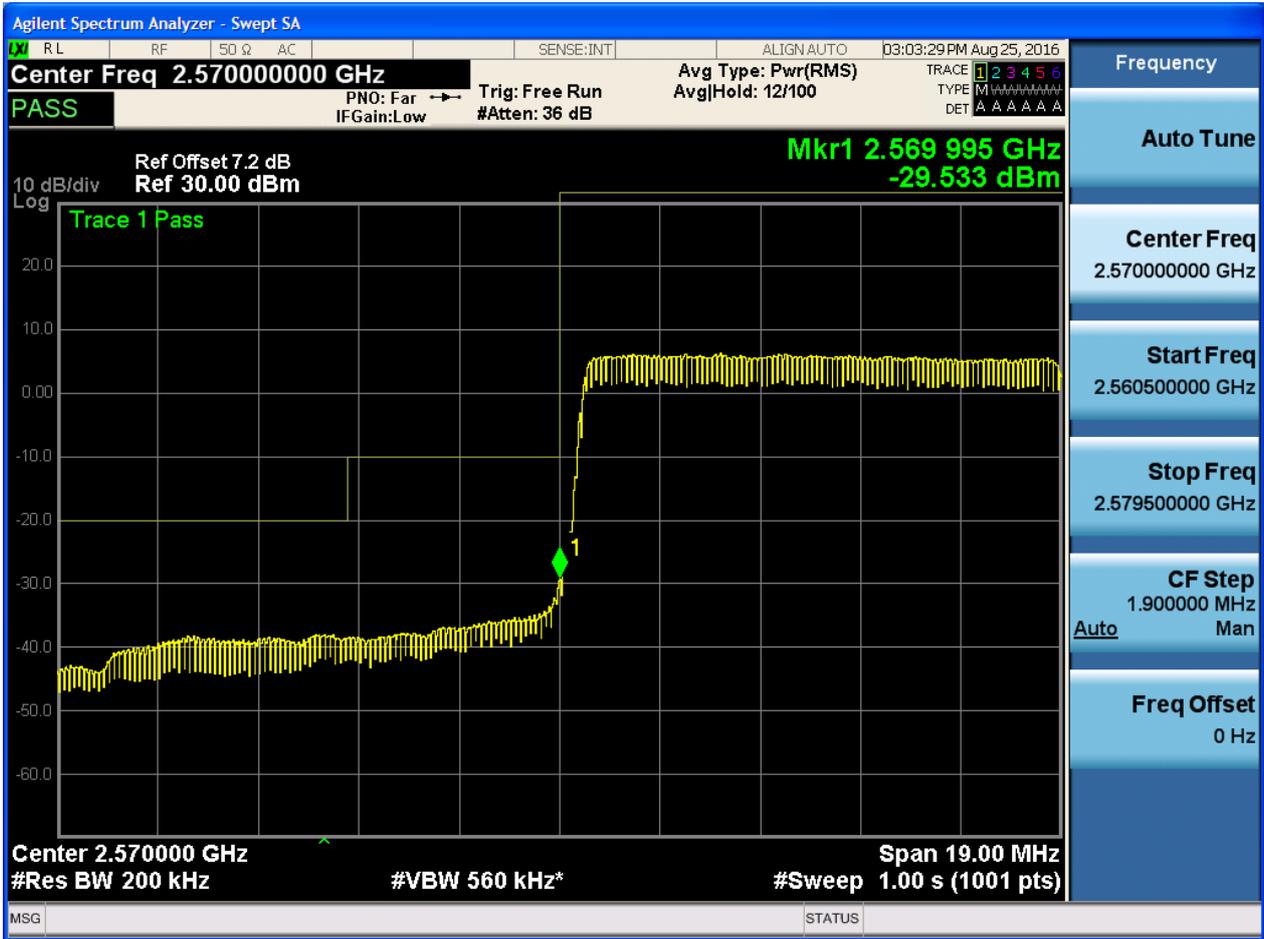


5.2.1.1.2.1.3 Test RB = RB25#13





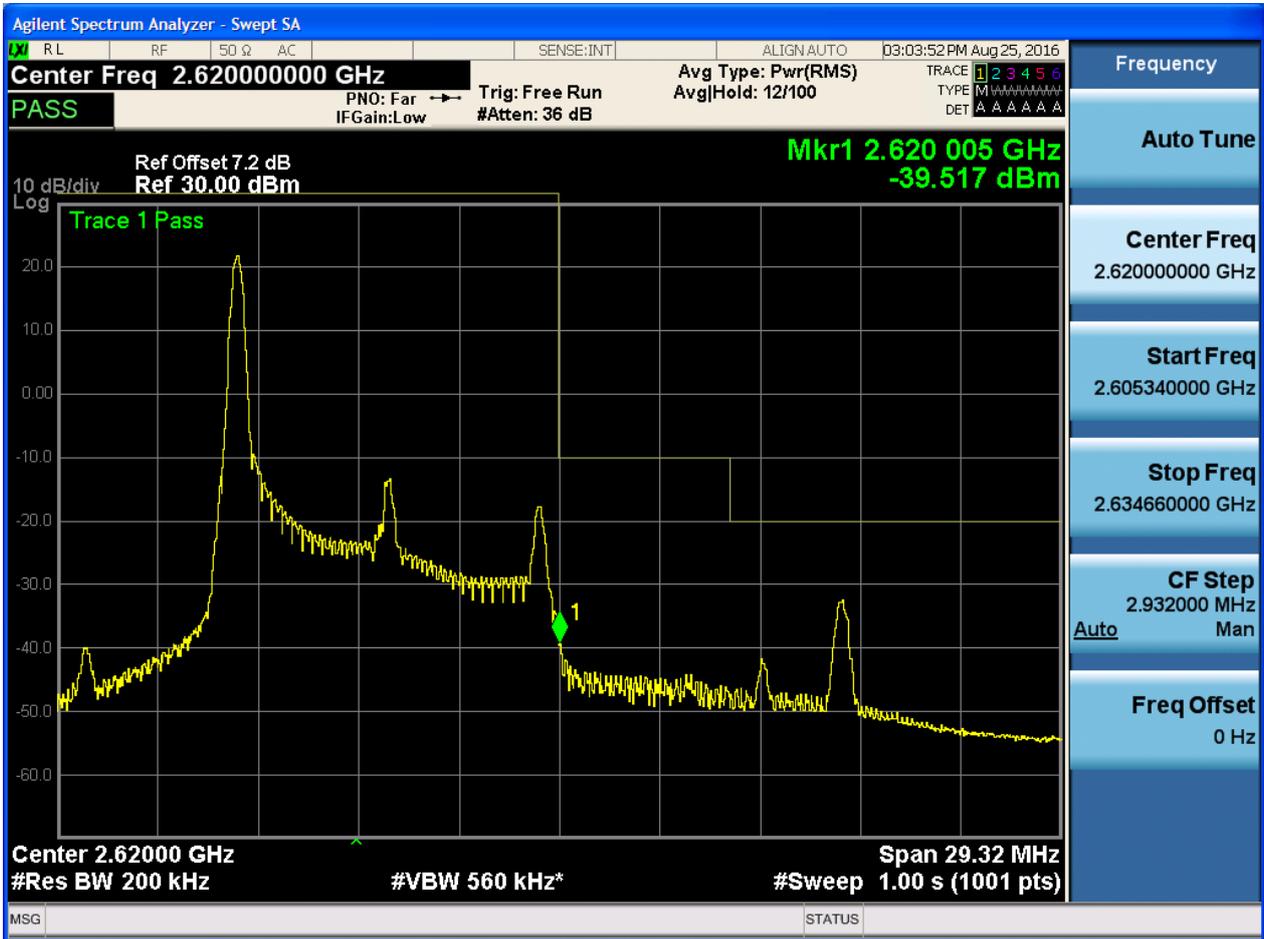
5.2.1.1.2.1.4 Test RB = RB50#0





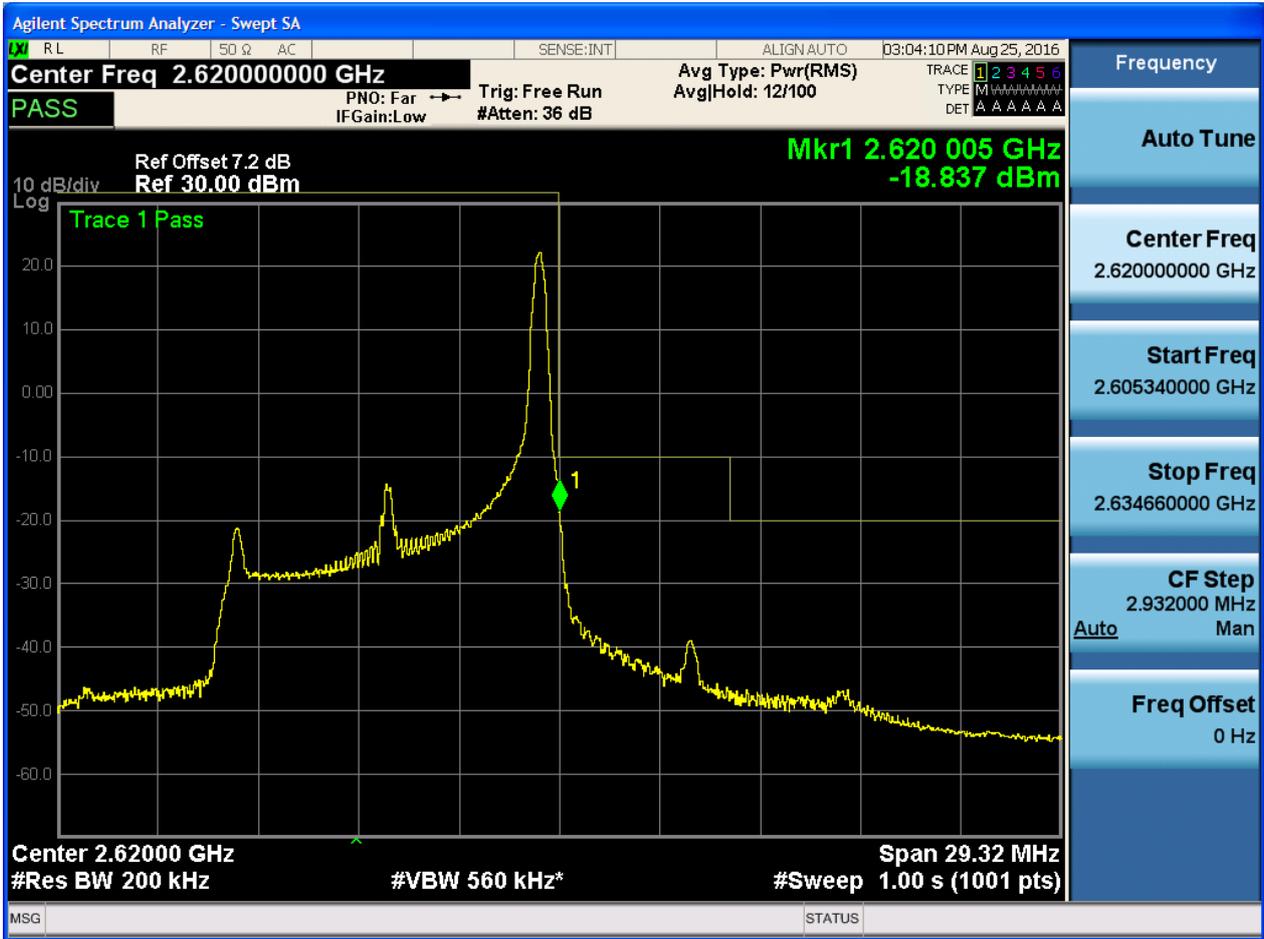
5.2.1.1.2.2 Test Channel = HCH

5.2.1.1.2.2.1 Test RB = RB1#0





5.2.1.1.2.2.2 Test RB = RB1#49





5.2.1.1.2.2.3 Test RB = RB25#13





5.2.1.1.2.2.4 Test RB = RB50#0

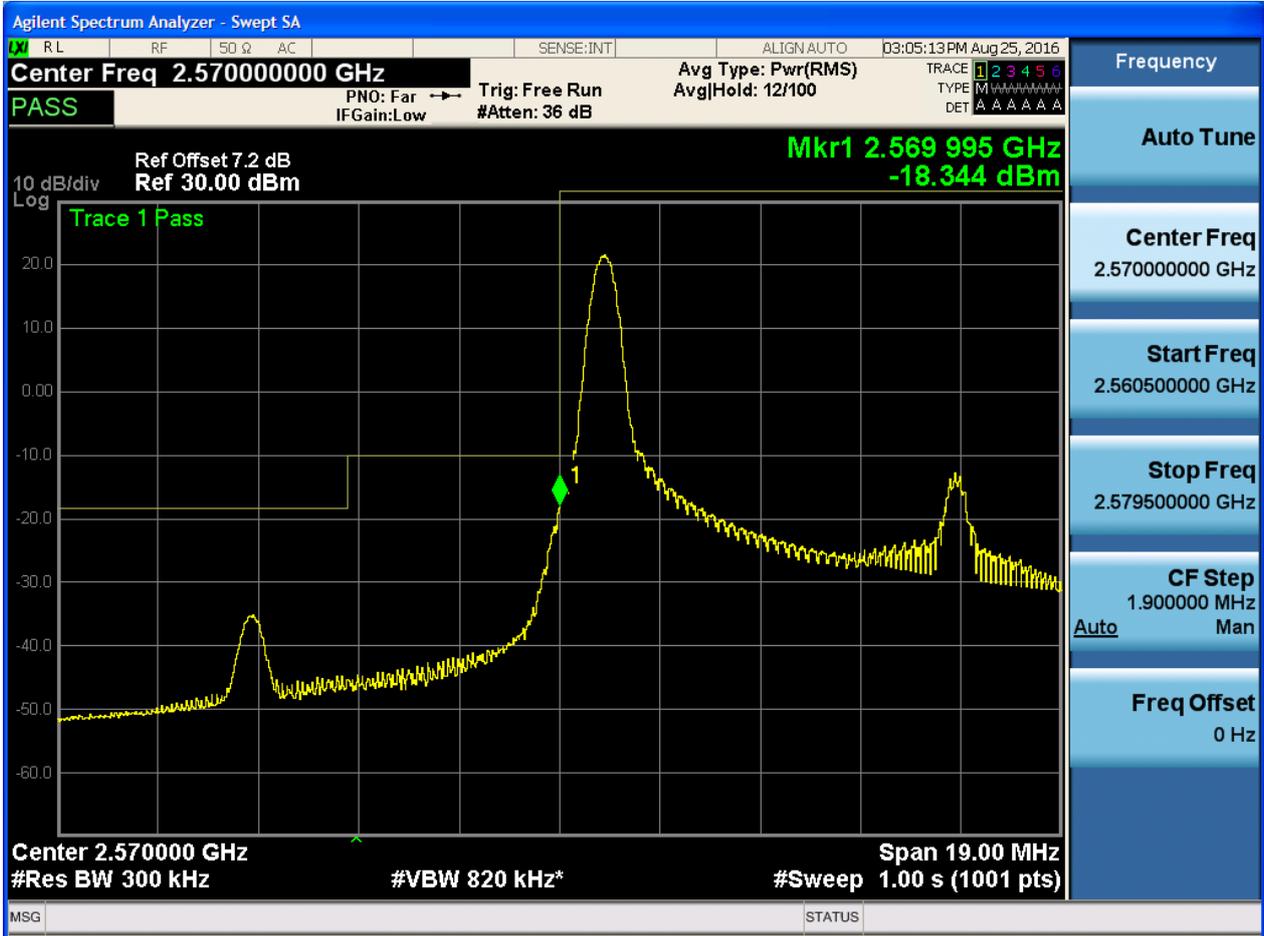




5.2.1.1.3 Test Bandwidth = 15

5.2.1.1.3.1 Test Channel = LCH

5.2.1.1.3.1.1 Test RB = RB1#0





5.2.1.1.3.1.2 Test RB = RB1#74





5.2.1.1.3.1.3 Test RB = RB36#18





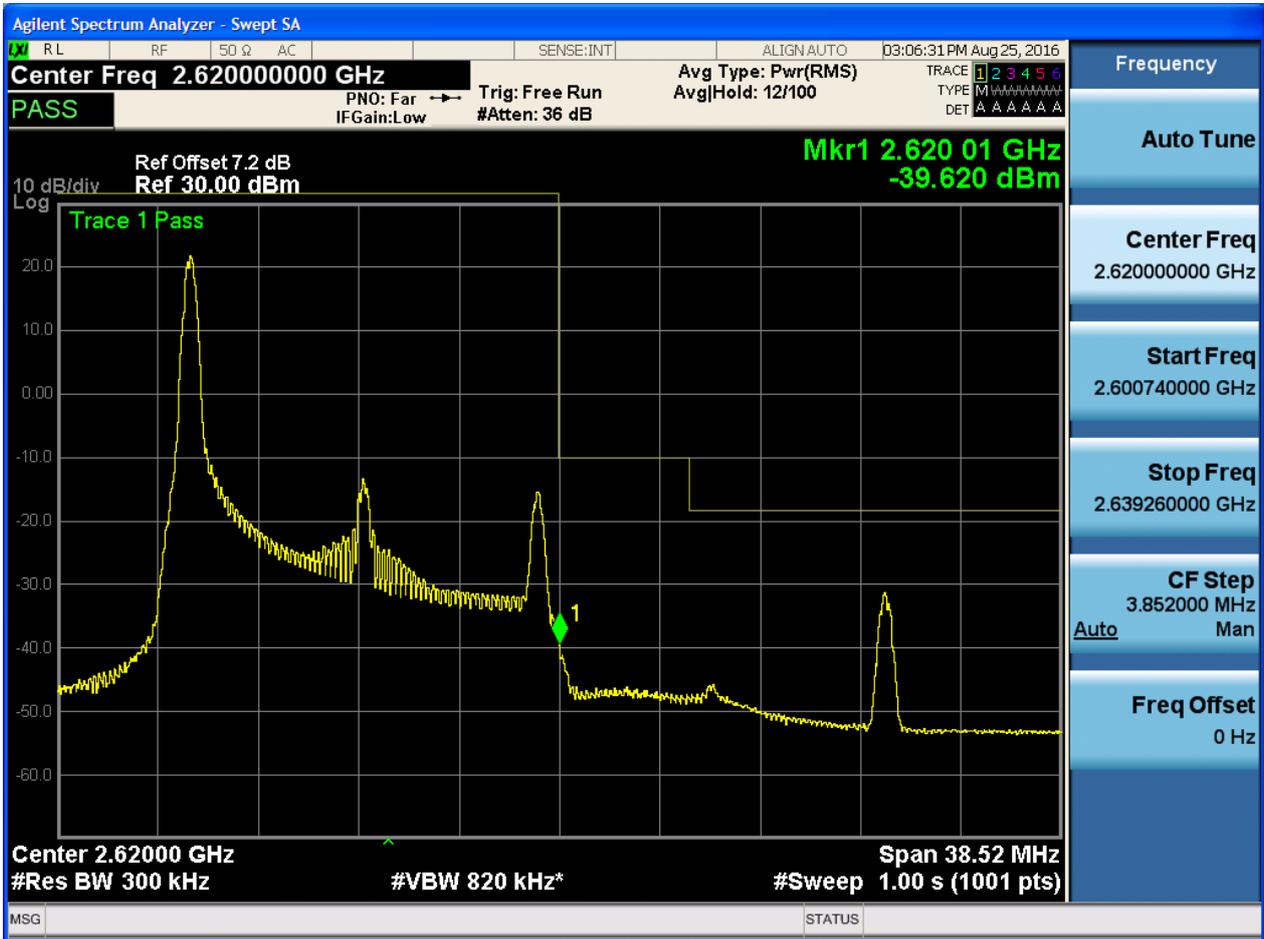
5.2.1.1.3.1.4 Test RB = RB75#0





5.2.1.1.3.2 Test Channel = HCH

5.2.1.1.3.2.1 Test RB = RB1#0





5.2.1.1.3.2.2 Test RB = RB1#74





5.2.1.1.3.2.3 Test RB = RB36#18





5.2.1.1.3.2.4 Test RB = RB75#0

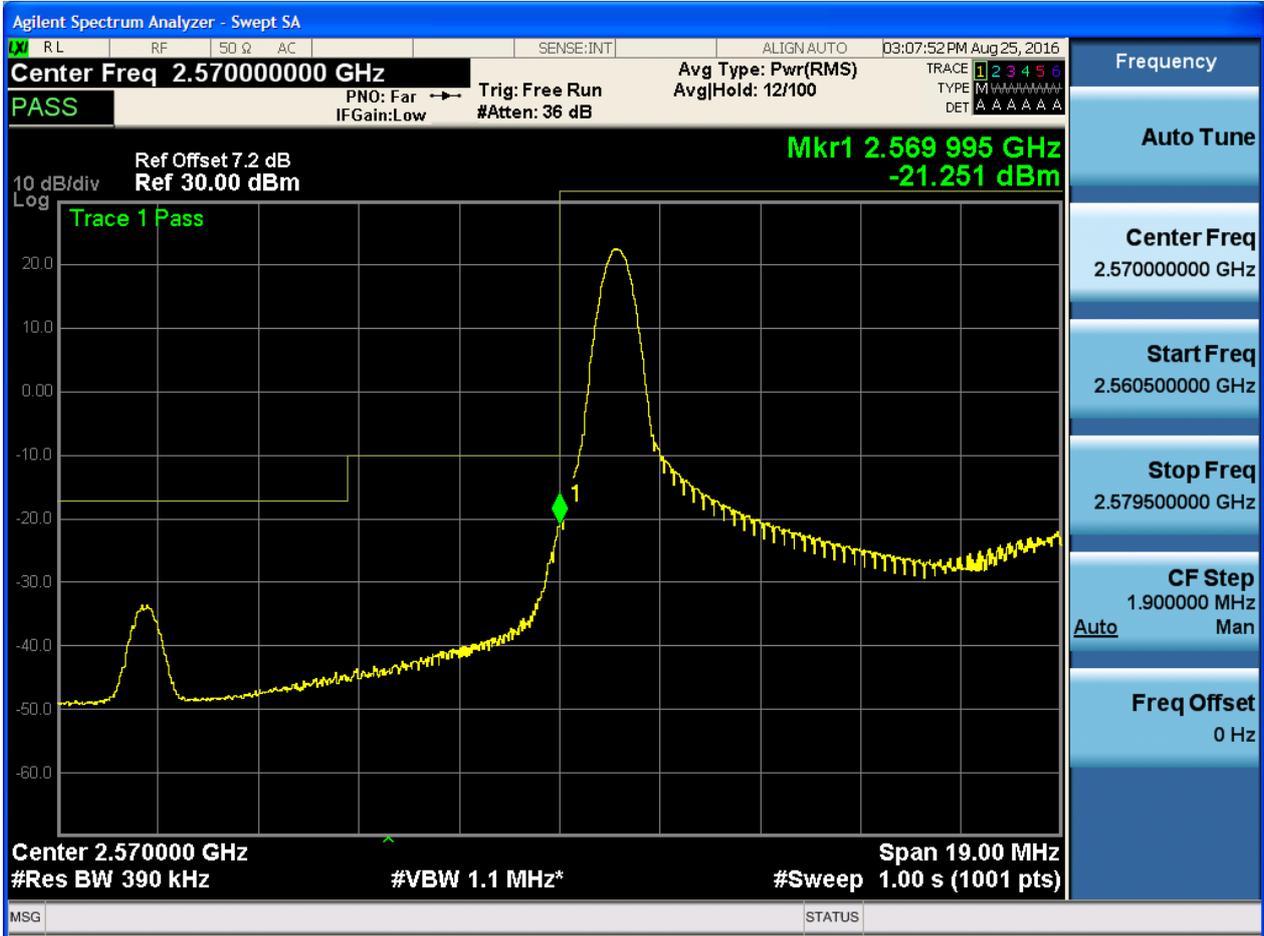




5.2.1.1.4 Test Bandwidth = 20

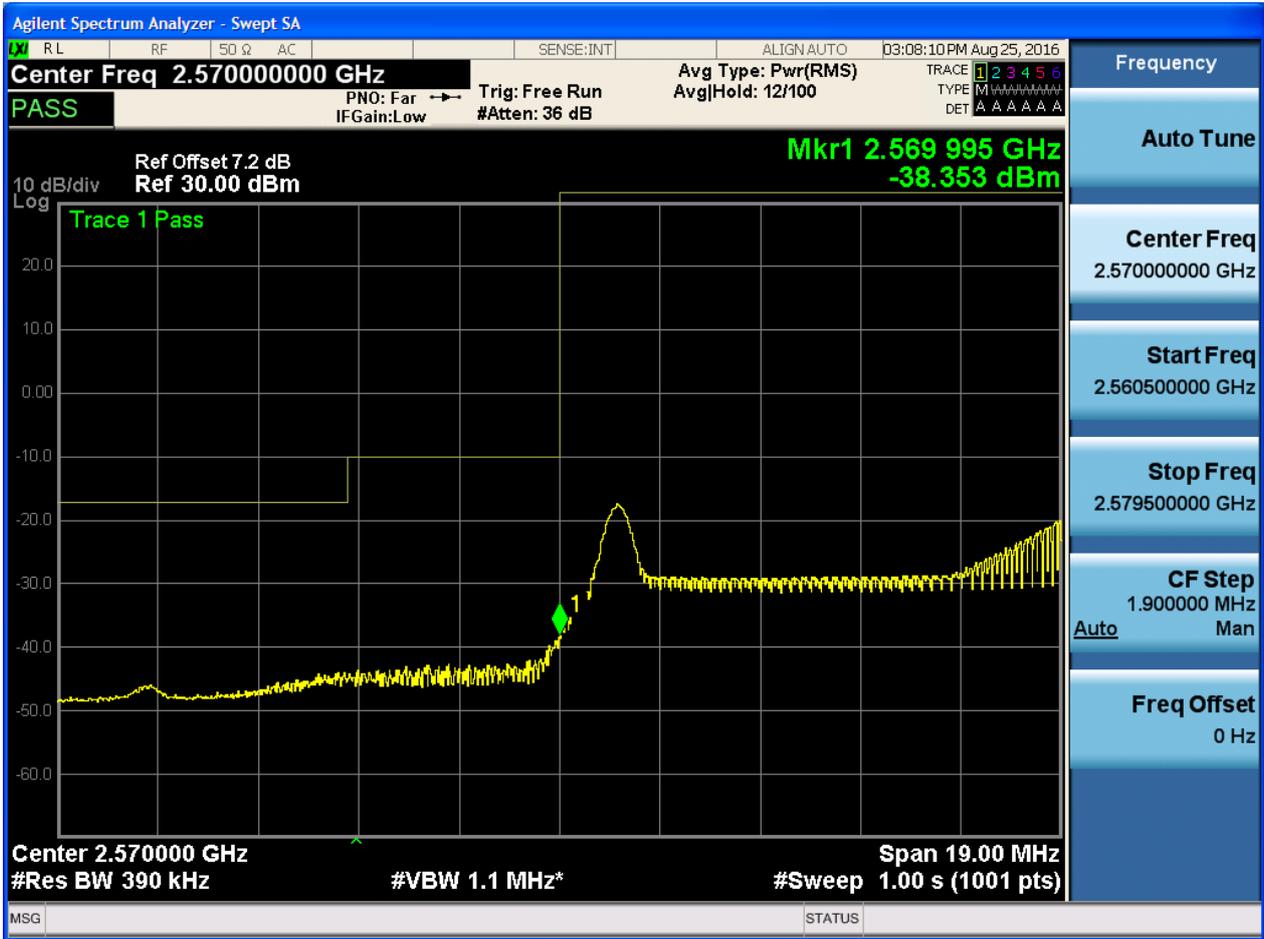
5.2.1.1.4.1 Test Channel = LCH

5.2.1.1.4.1.1 Test RB = RB1#0





5.2.1.1.4.1.2 Test RB = RB1#99



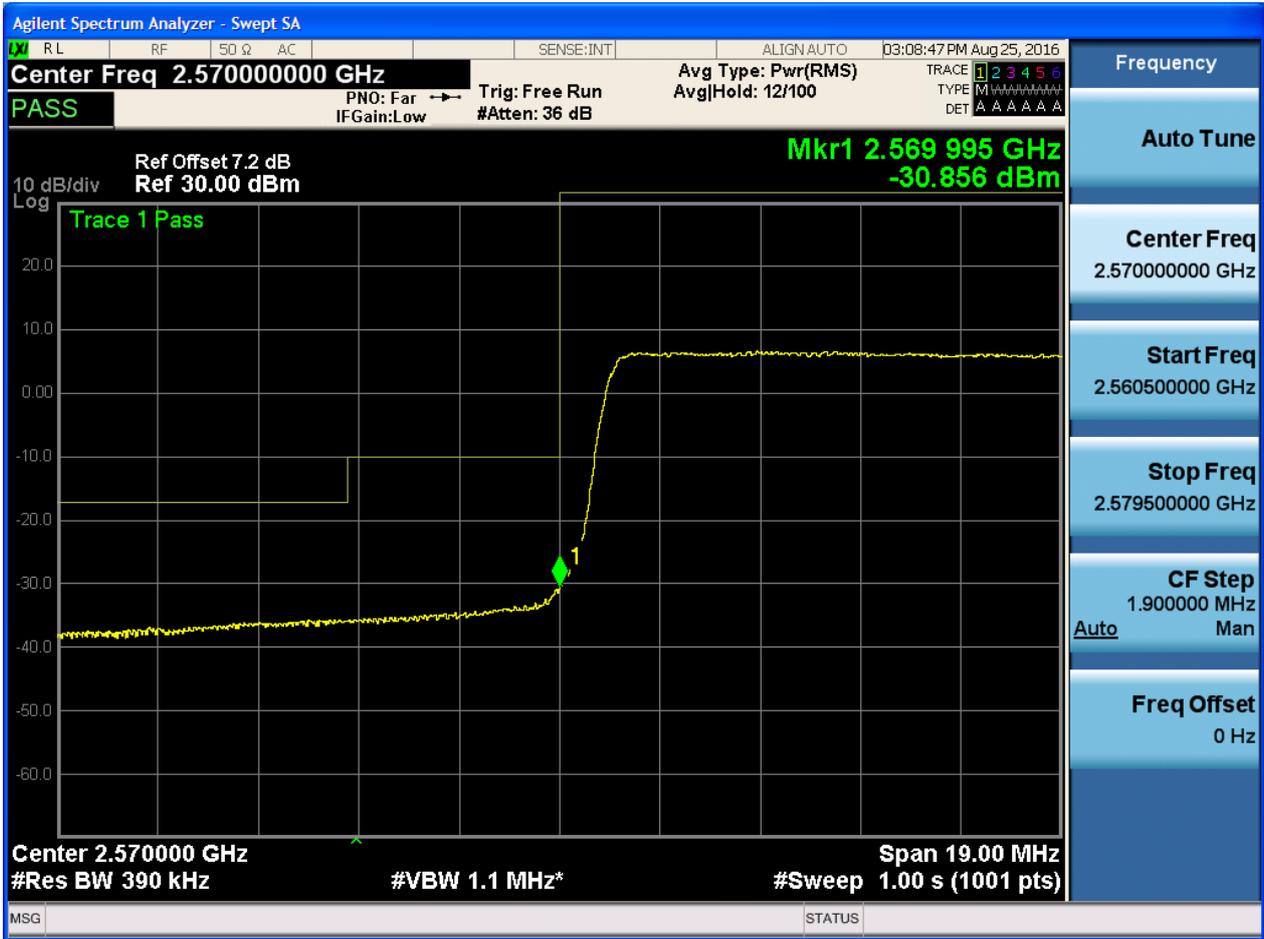


5.2.1.1.4.1.3 Test RB = RB50#25





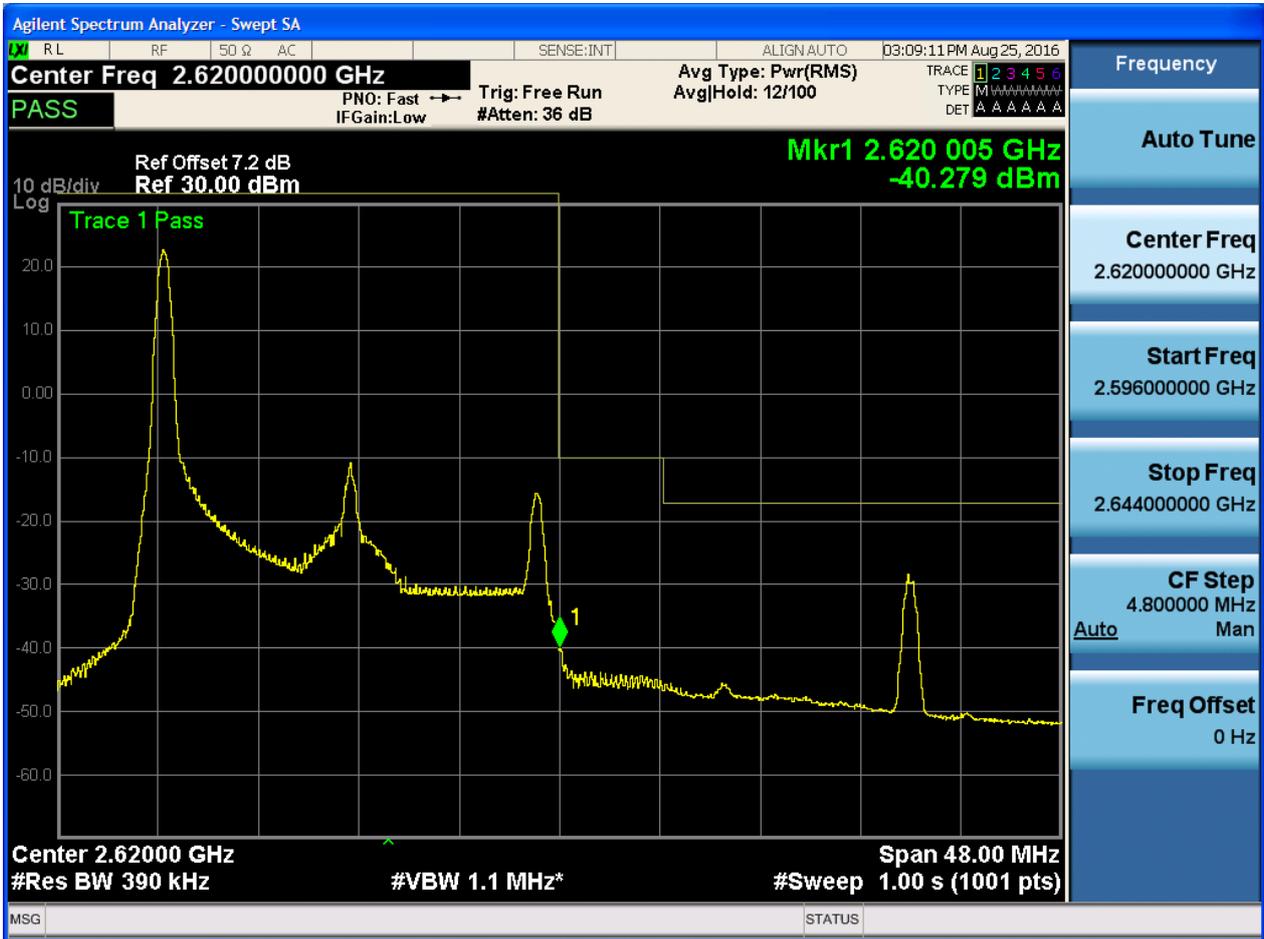
5.2.1.1.4.1.4 Test RB = RB100#0





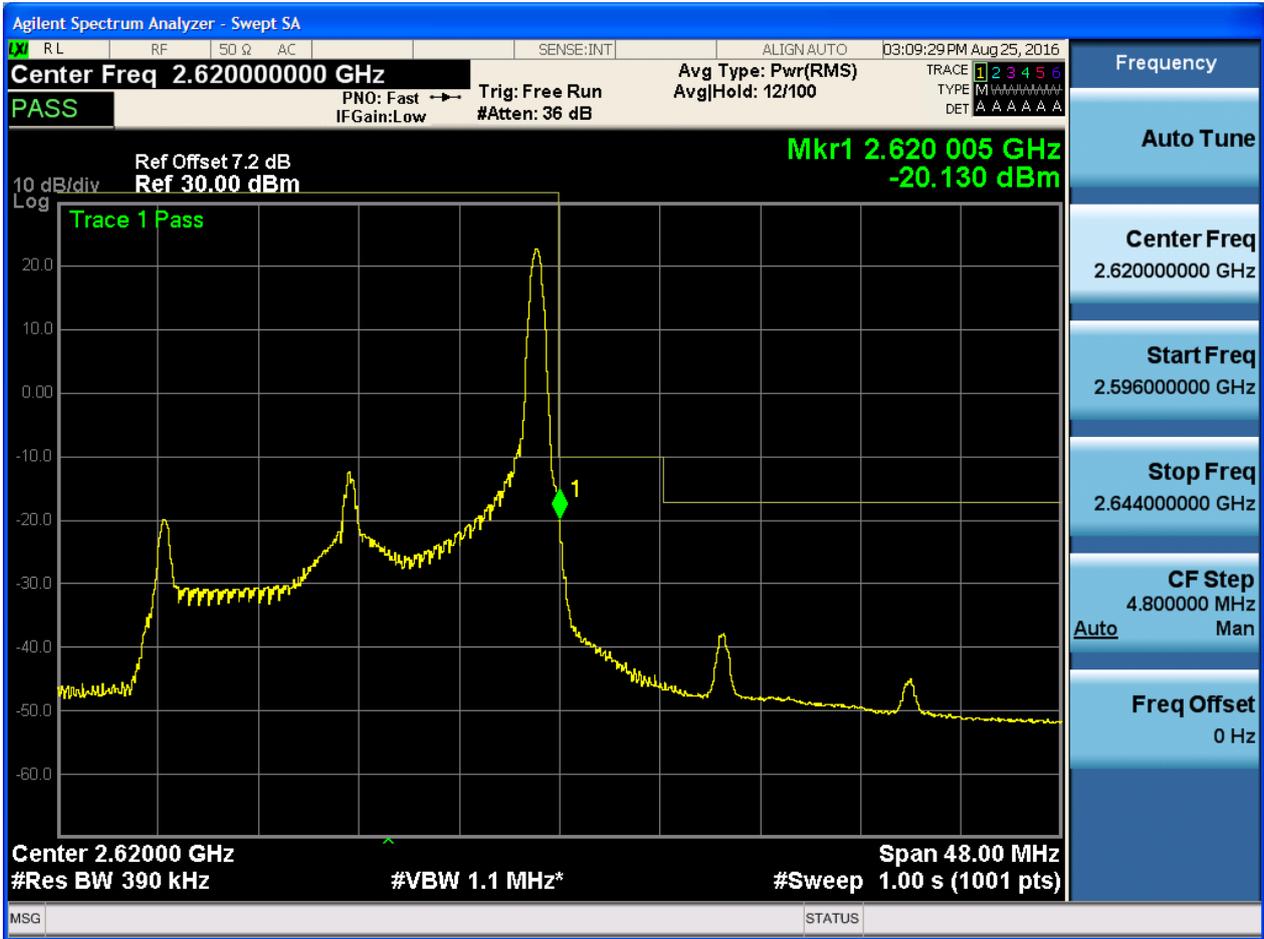
5.2.1.1.4.2 Test Channel = HCH

5.2.1.1.4.2.1 Test RB = RB1#0





5.2.1.1.4.2.2 Test RB = RB1#99





5.2.1.1.4.2.3 Test RB = RB50#25





5.2.1.1.4.2.4 Test RB = RB100#0



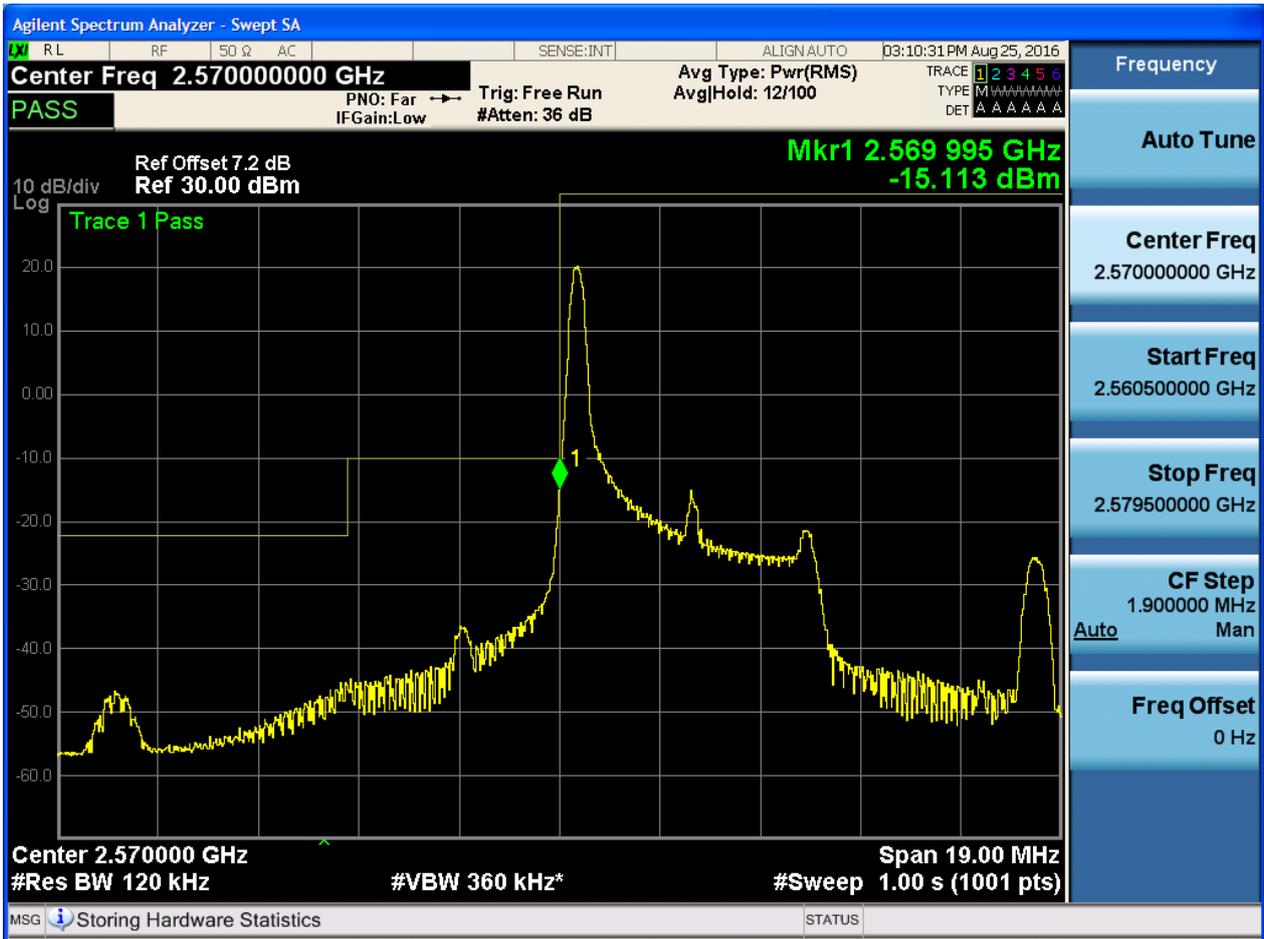


5.2.1.2 Test Mode = LTE/TM2

5.2.1.2.1 Test Bandwidth = 5

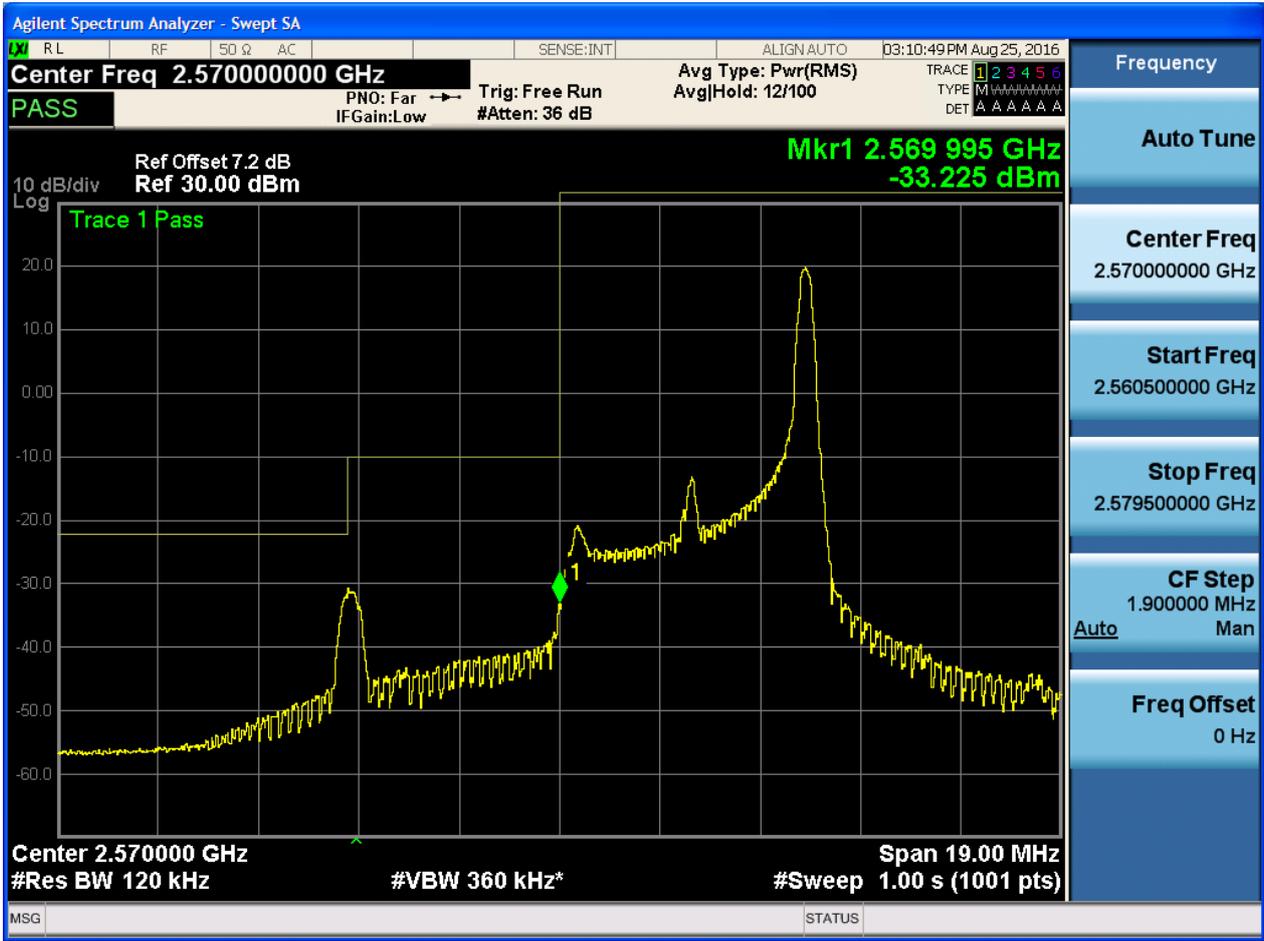
5.2.1.2.1.1 Test Channel = LCH

5.2.1.2.1.1.1 Test RB = RB1#0



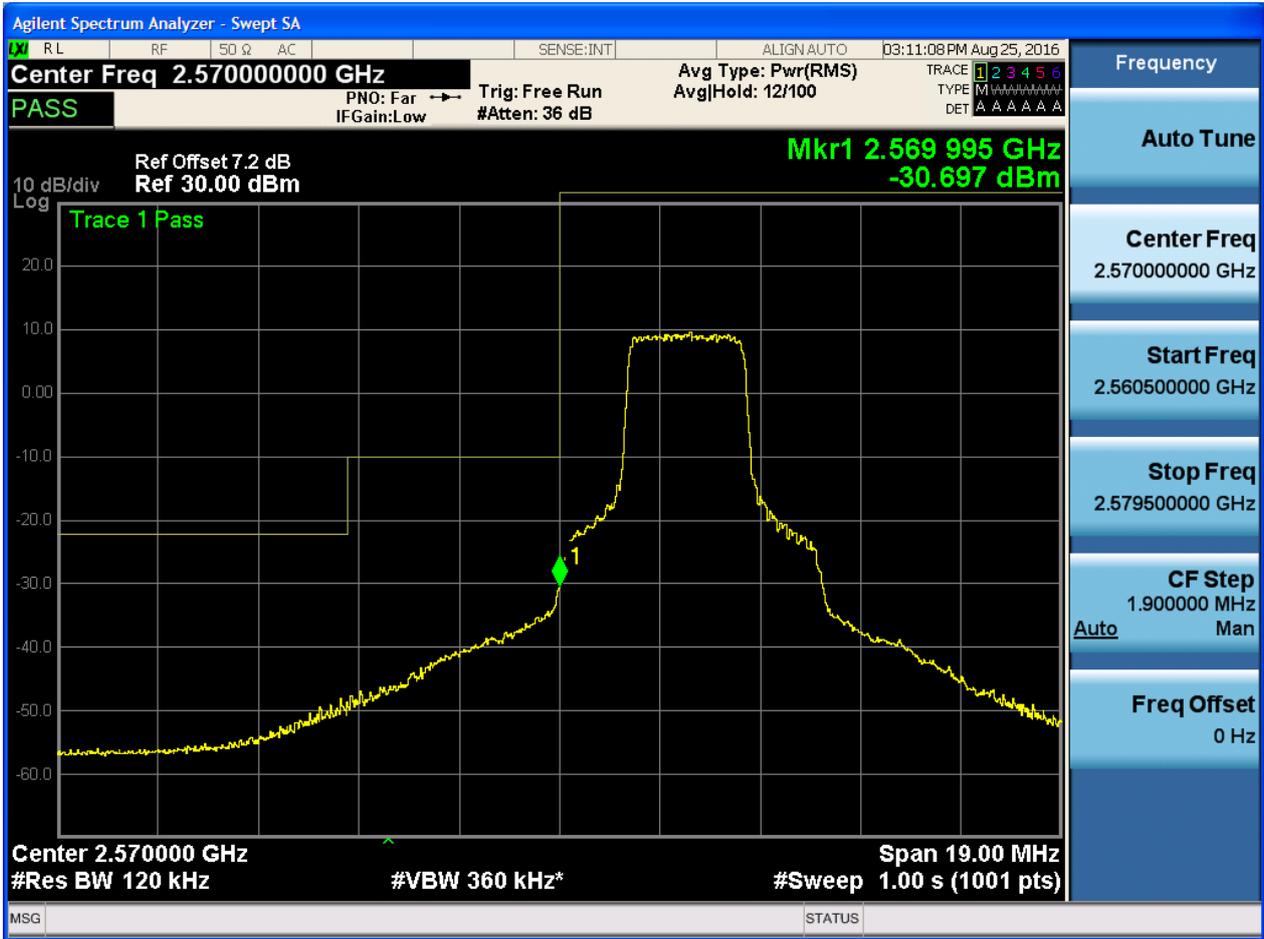


5.2.1.2.1.1.2 Test RB = RB1#24





5.2.1.2.1.1.3 Test RB = RB12#6





5.2.1.2.1.1.4 Test RB = RB25#0





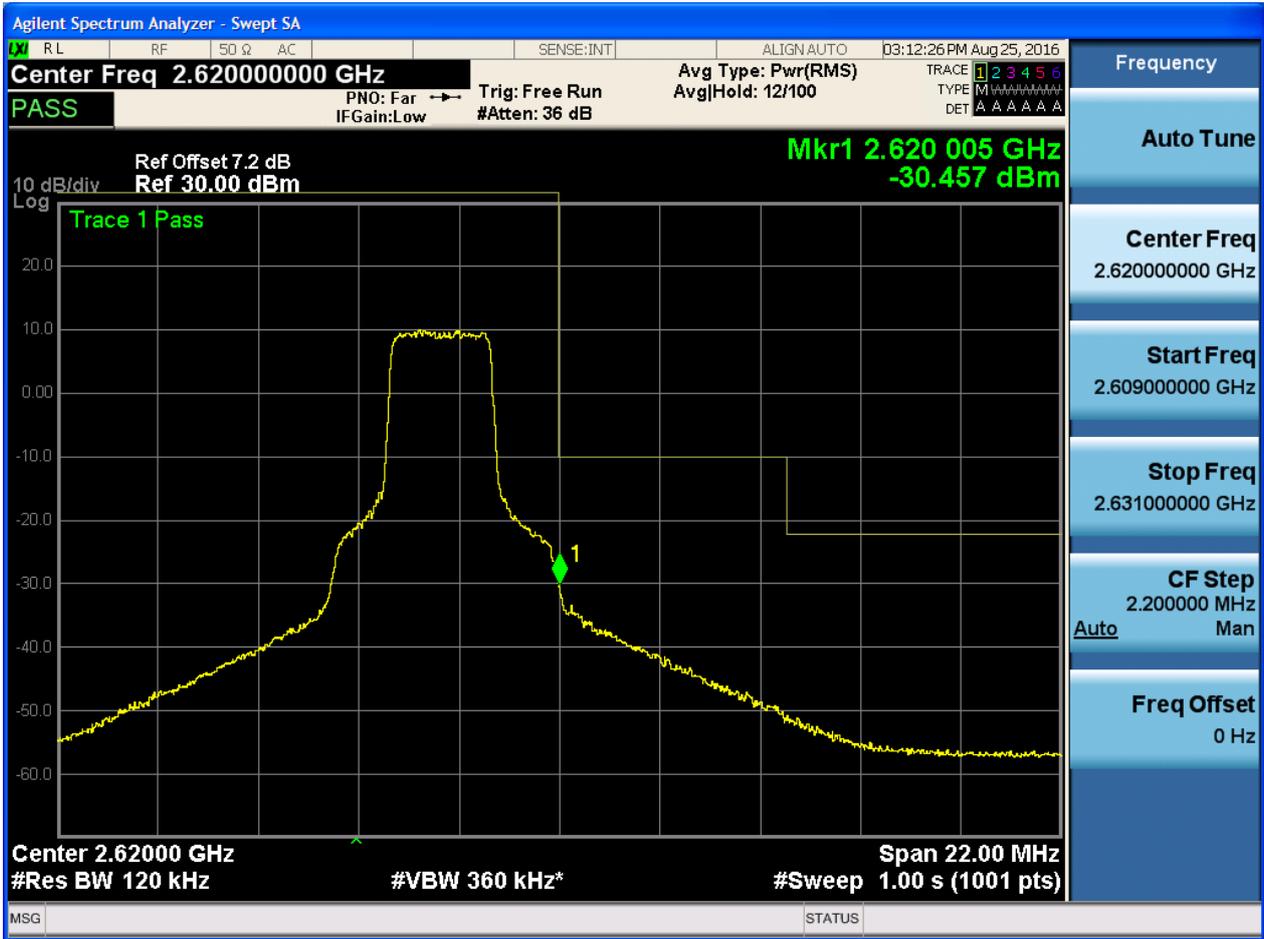


5.2.1.2.1.2.2 Test RB = RB1#24



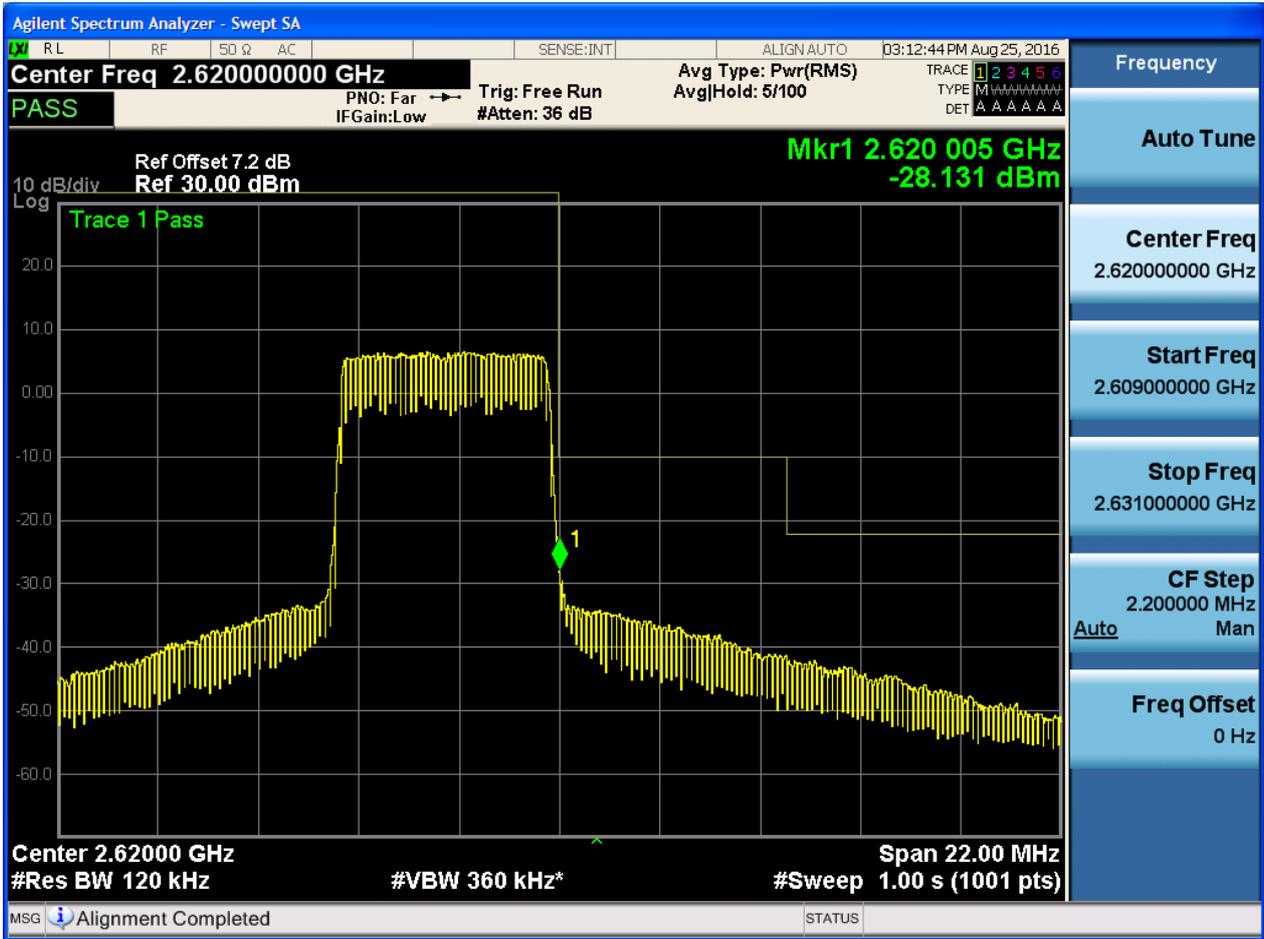


5.2.1.2.1.2.3 Test RB = RB12#6





5.2.1.2.1.2.4 Test RB = RB25#0

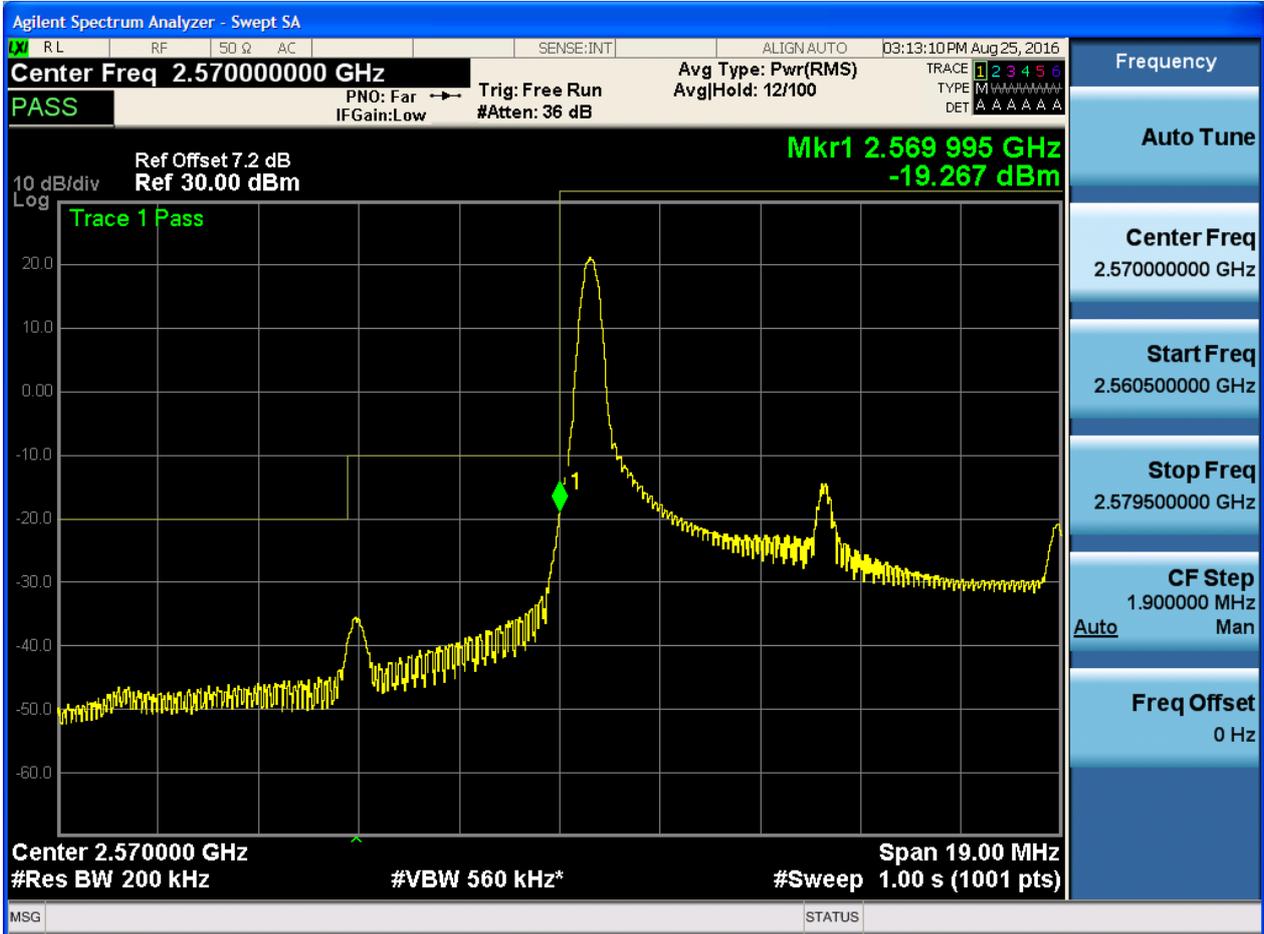




5.2.1.2.2 Test Bandwidth = 10

5.2.1.2.2.1 Test Channel = LCH

5.2.1.2.2.1.1 Test RB = RB1#0





5.2.1.2.2.1.2 Test RB = RB1#49





5.2.1.2.2.1.3 Test RB = RB25#13





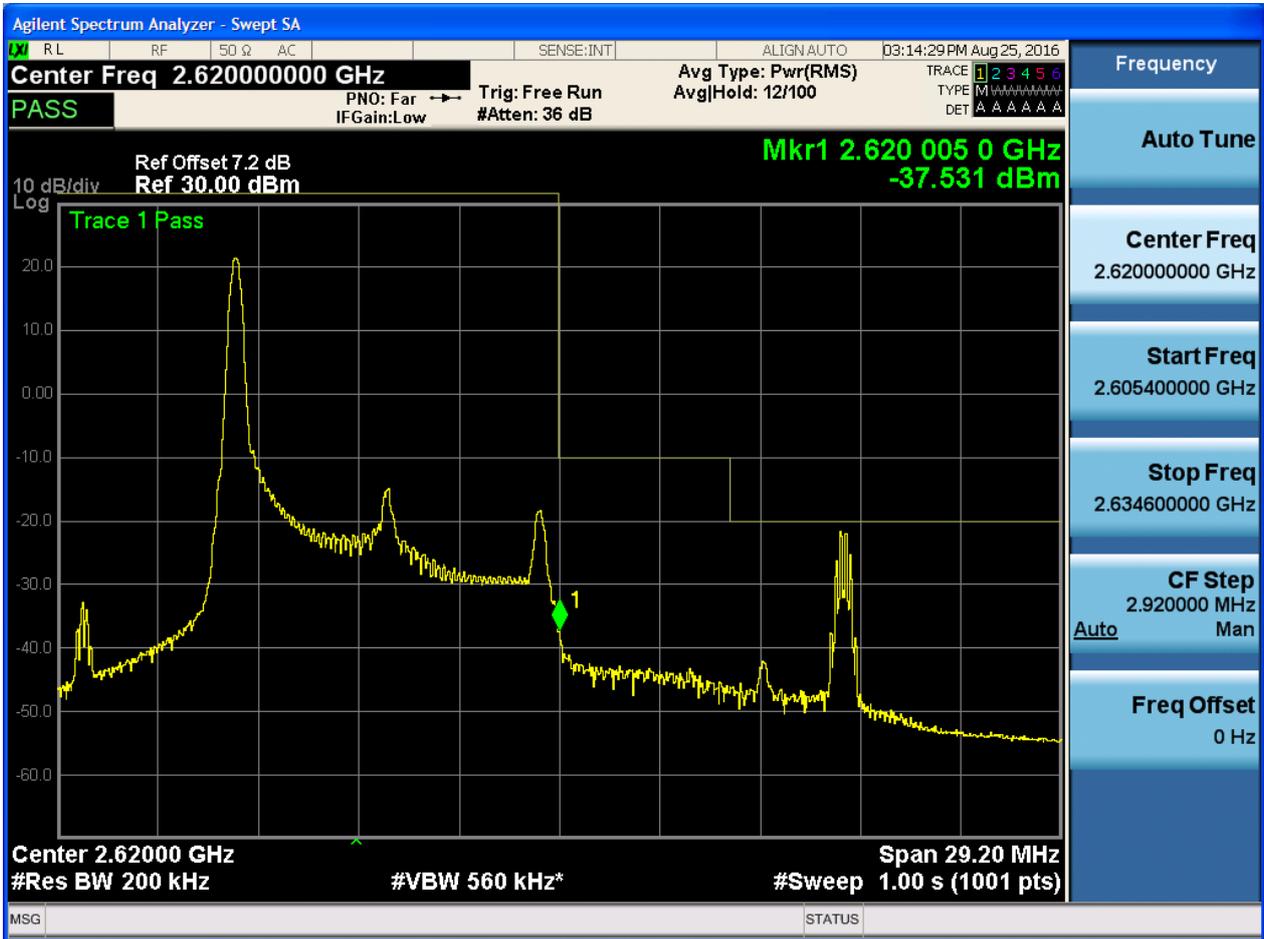
5.2.1.2.2.1.4 Test RB = RB50#0





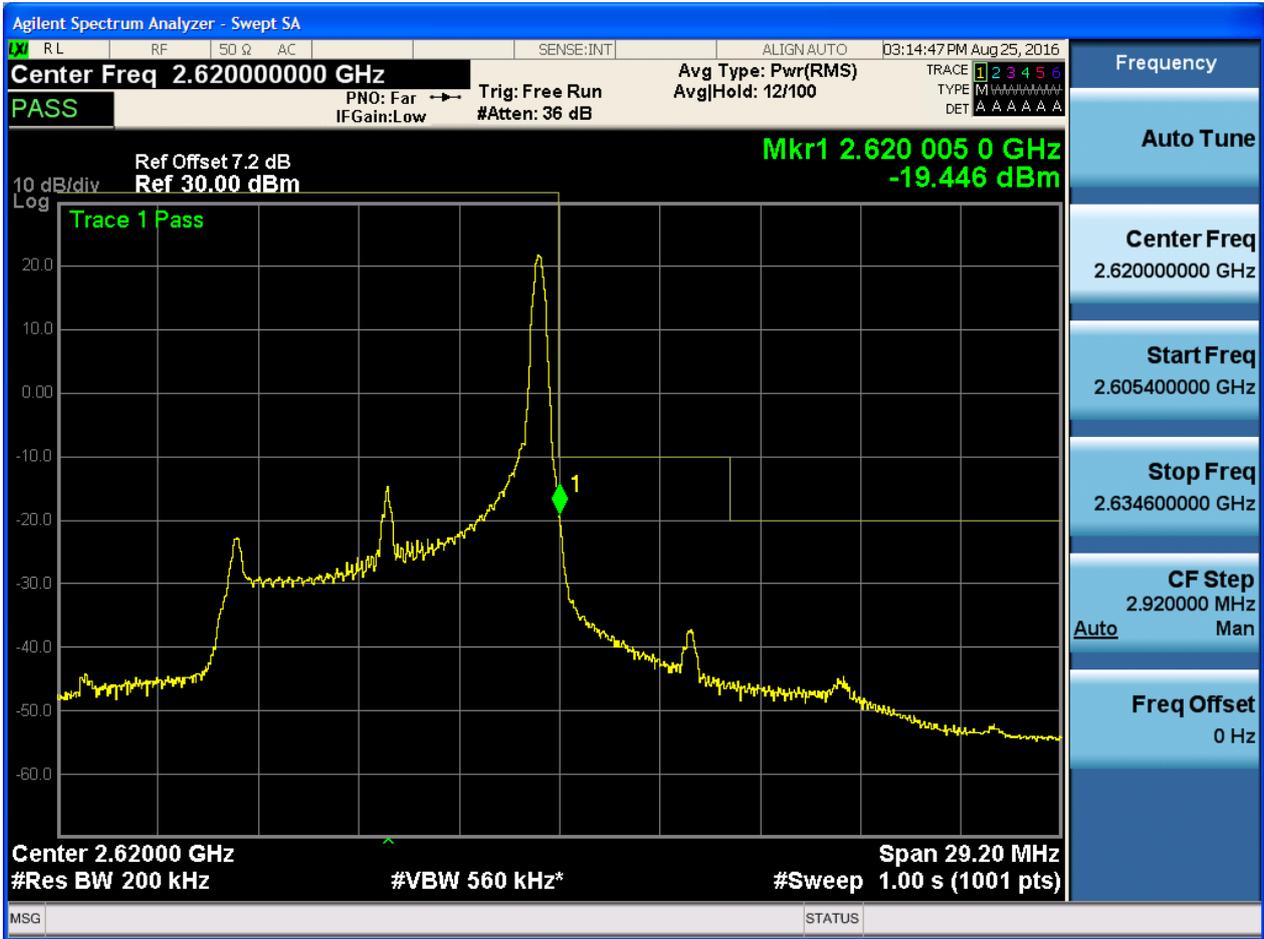
5.2.1.2.2.2 Test Channel = HCH

5.2.1.2.2.2.1 Test RB = RB1#0





5.2.1.2.2.2 Test RB = RB1#49





5.2.1.2.2.3 Test RB = RB25#13





5.2.1.2.2.2.4 Test RB = RB50#0

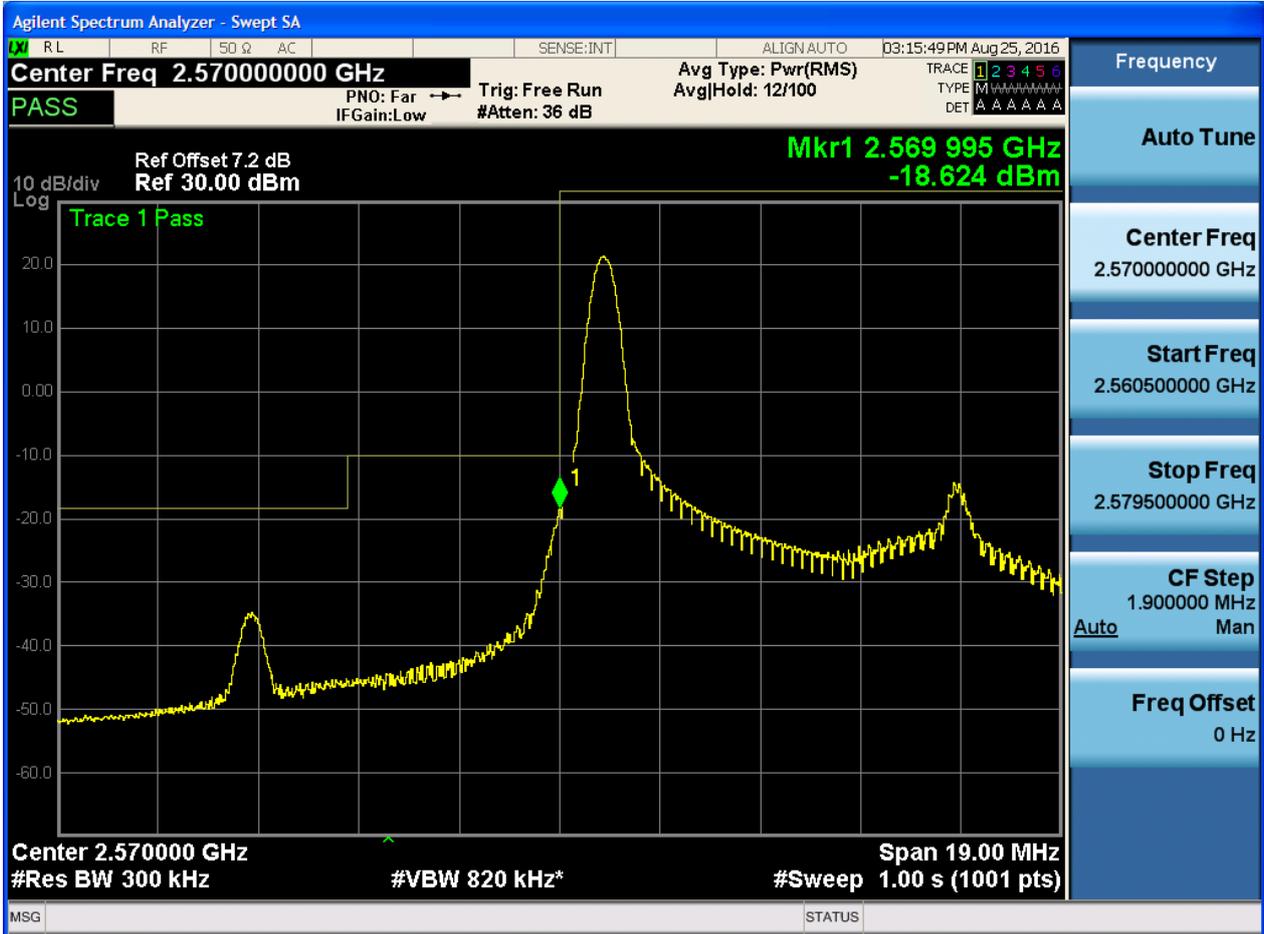




5.2.1.2.3 Test Bandwidth = 15

5.2.1.2.3.1 Test Channel = LCH

5.2.1.2.3.1.1 Test RB = RB1#0





5.2.1.2.3.1.2 Test RB = RB1#74





5.2.1.2.3.1.3 Test RB = RB36#18





5.2.1.2.3.1.4 Test RB = RB75#0







5.2.1.2.3.2.2 Test RB = RB1#74





5.2.1.2.3.2.3 Test RB = RB36#18





5.2.1.2.3.2.4 Test RB = RB75#0

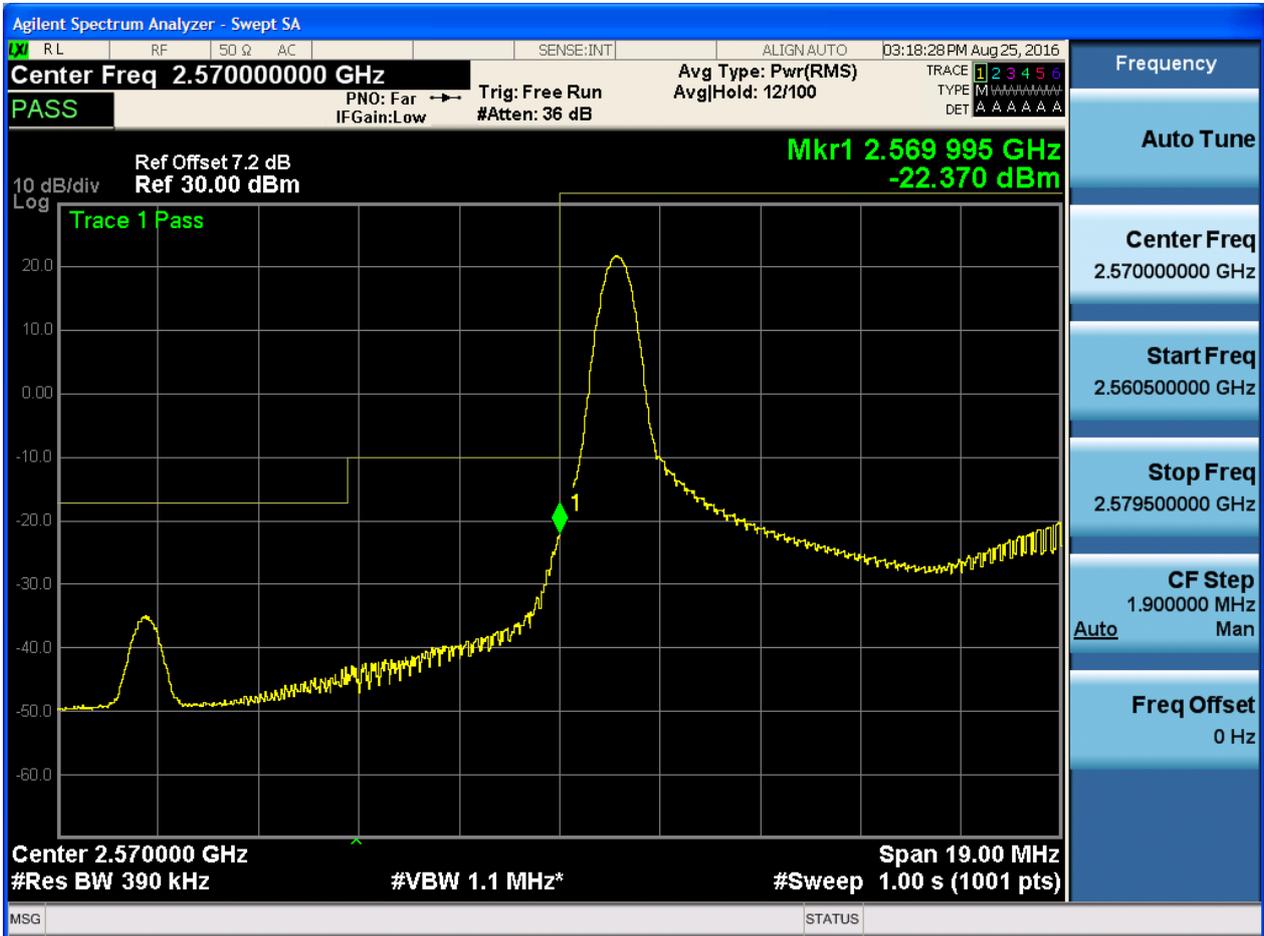




5.2.1.2.4 Test Bandwidth = 20

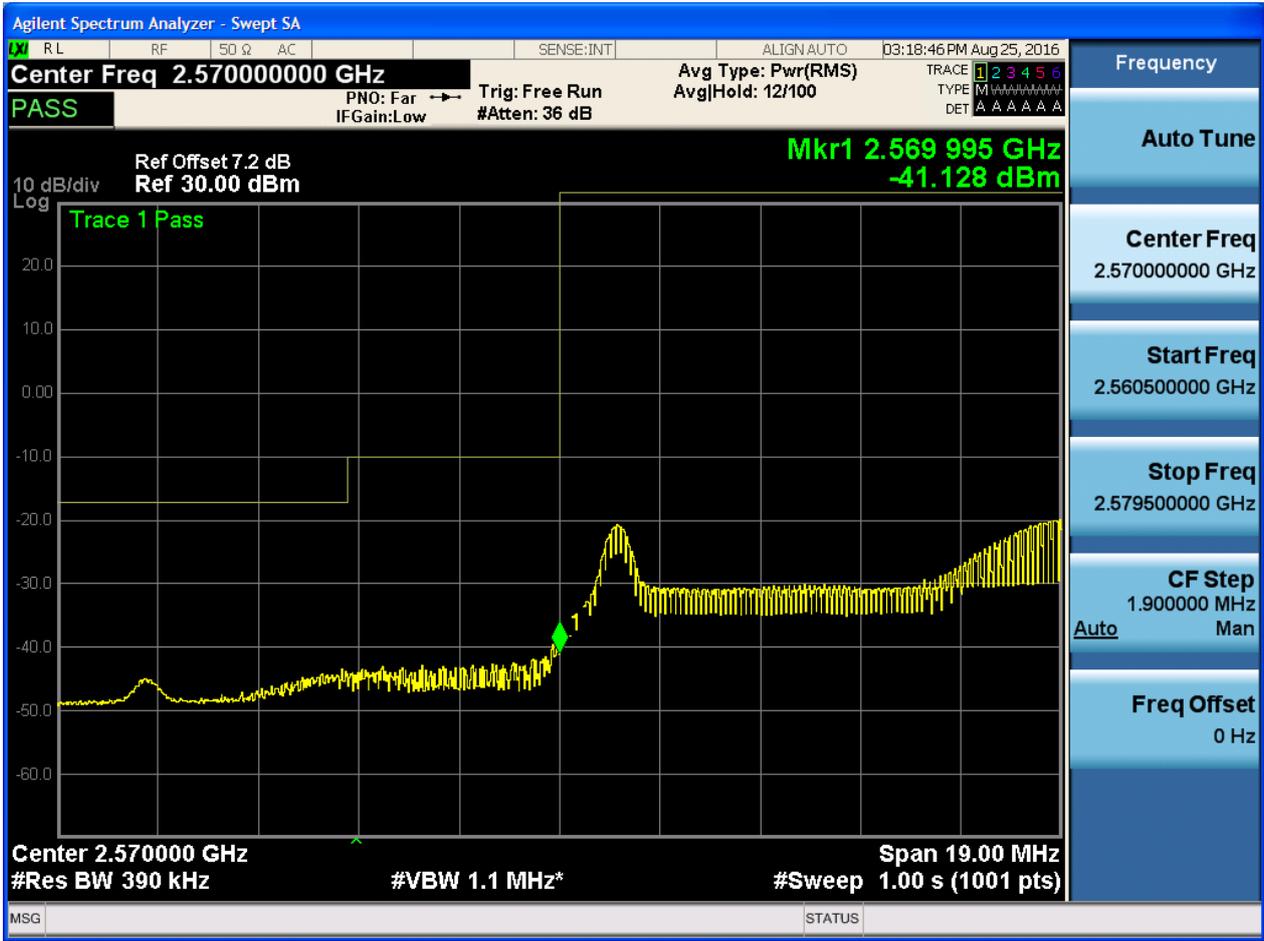
5.2.1.2.4.1 Test Channel = LCH

5.2.1.2.4.1.1 Test RB = RB1#0





5.2.1.2.4.1.2 Test RB = RB1#99



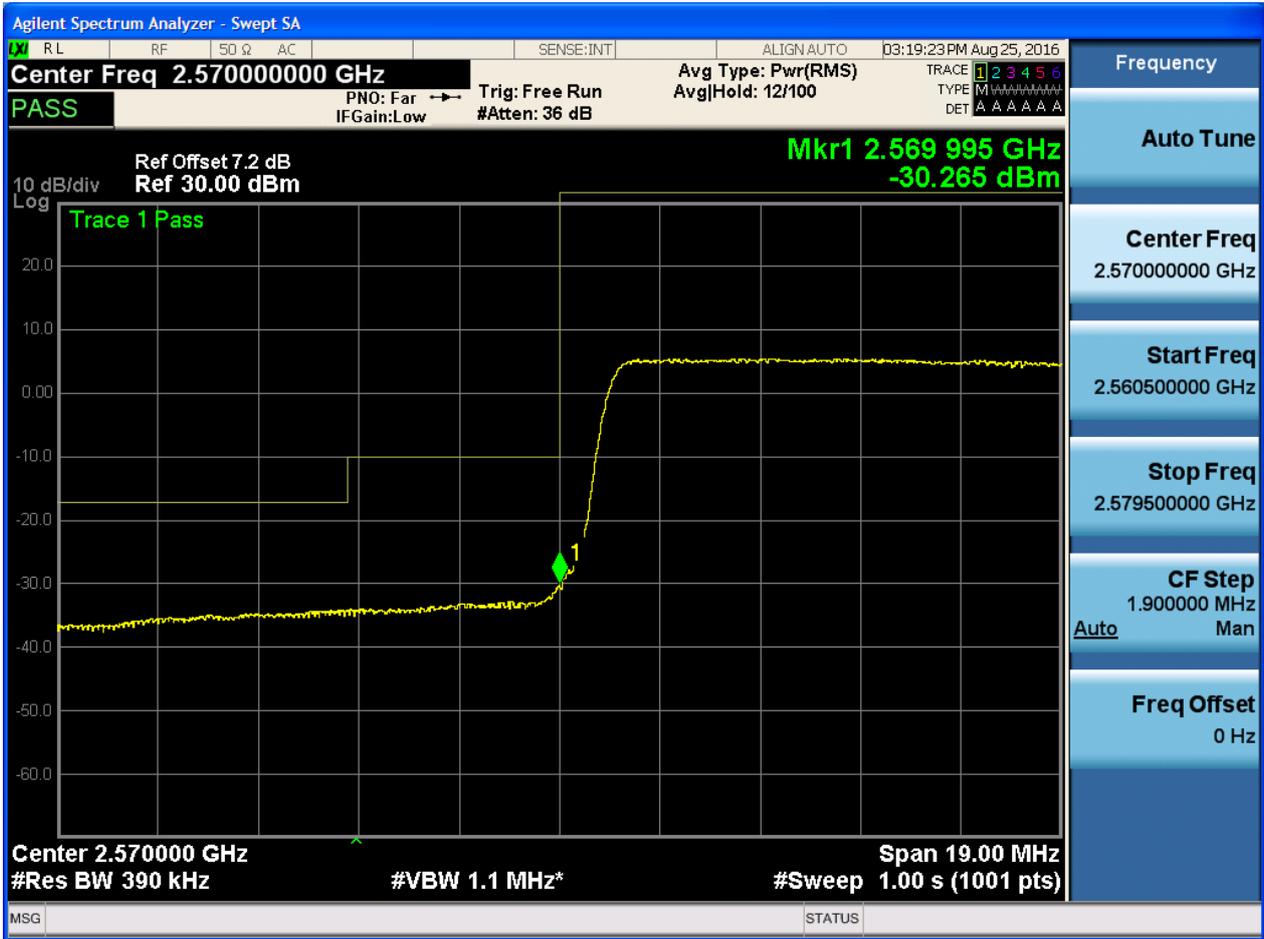


5.2.1.2.4.1.3 Test RB = RB50#25





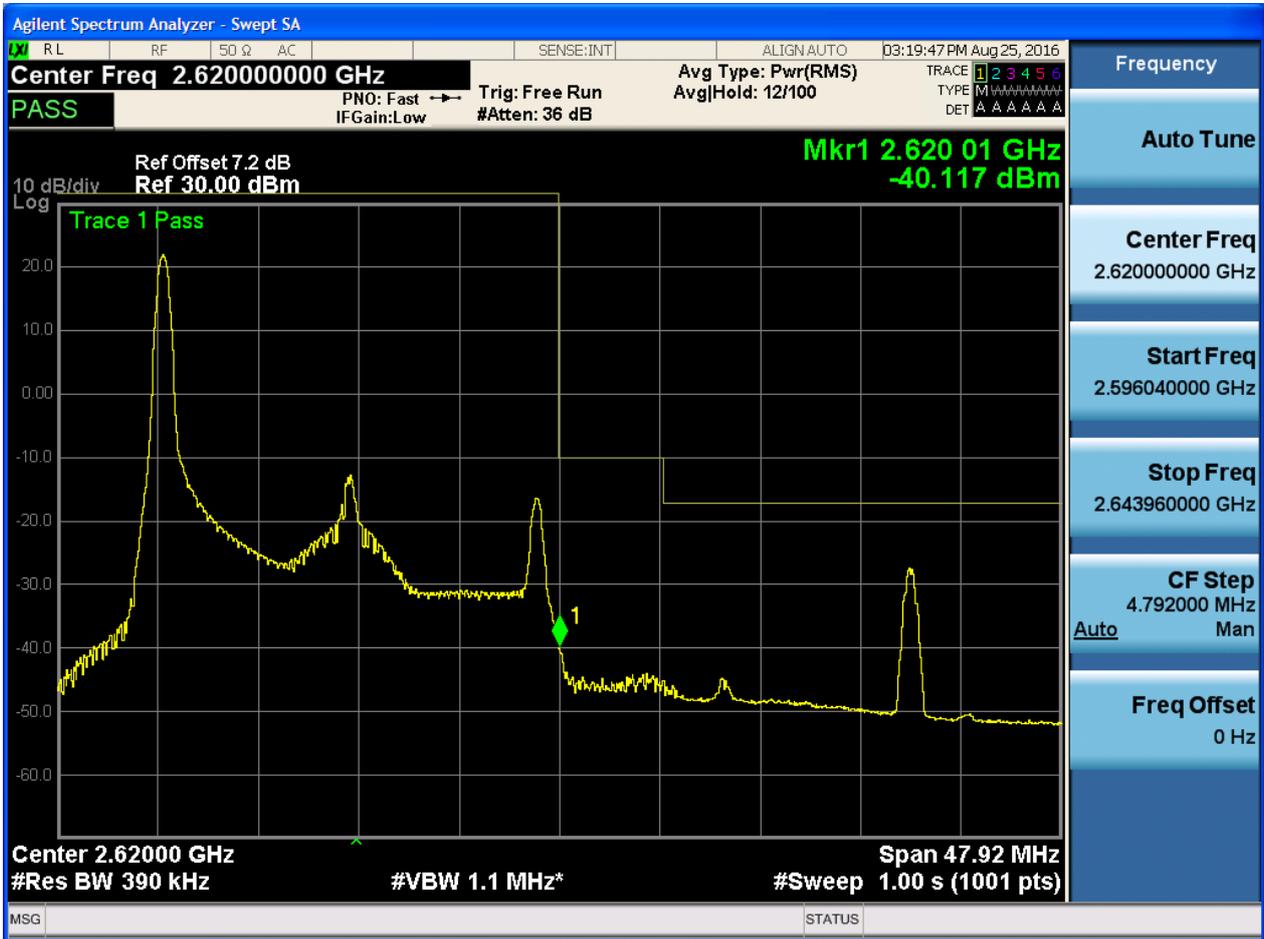
5.2.1.2.4.1.4 Test RB = RB100#0





5.2.1.2.4.2 Test Channel = HCH

5.2.1.2.4.2.1 Test RB = RB1#0





5.2.1.2.4.2.2 Test RB = RB1#99





5.2.1.2.4.2.3 Test RB = RB50#25





5.2.1.2.4.2.4 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  $< RBW/2$  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 = BAND38

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

##### 6.1.1.1.1 Test Bandwidth = 5

##### 6.1.1.1.1.1 Test Channel = LCH

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