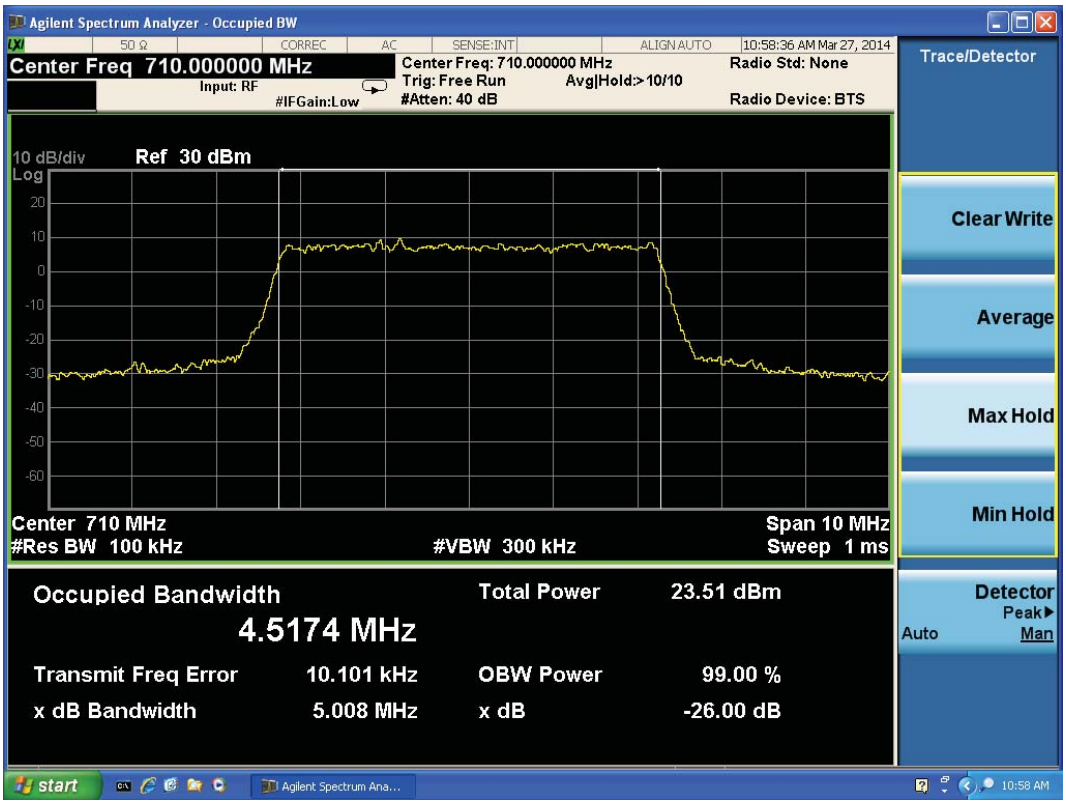
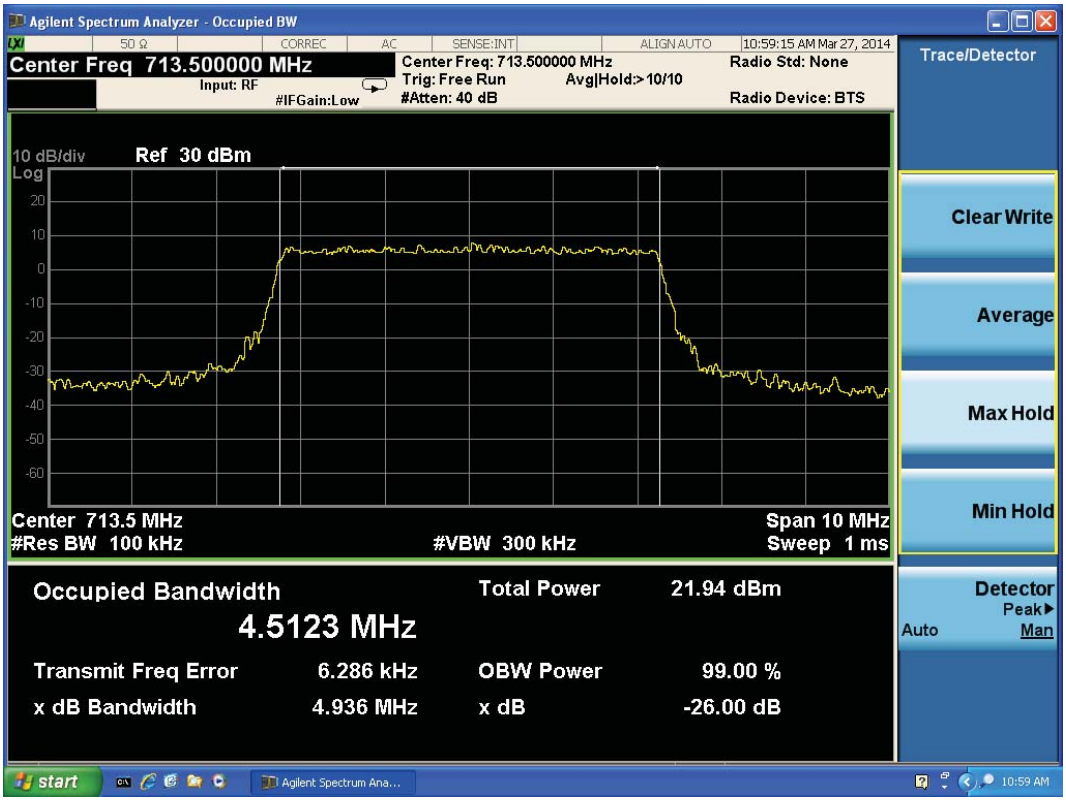
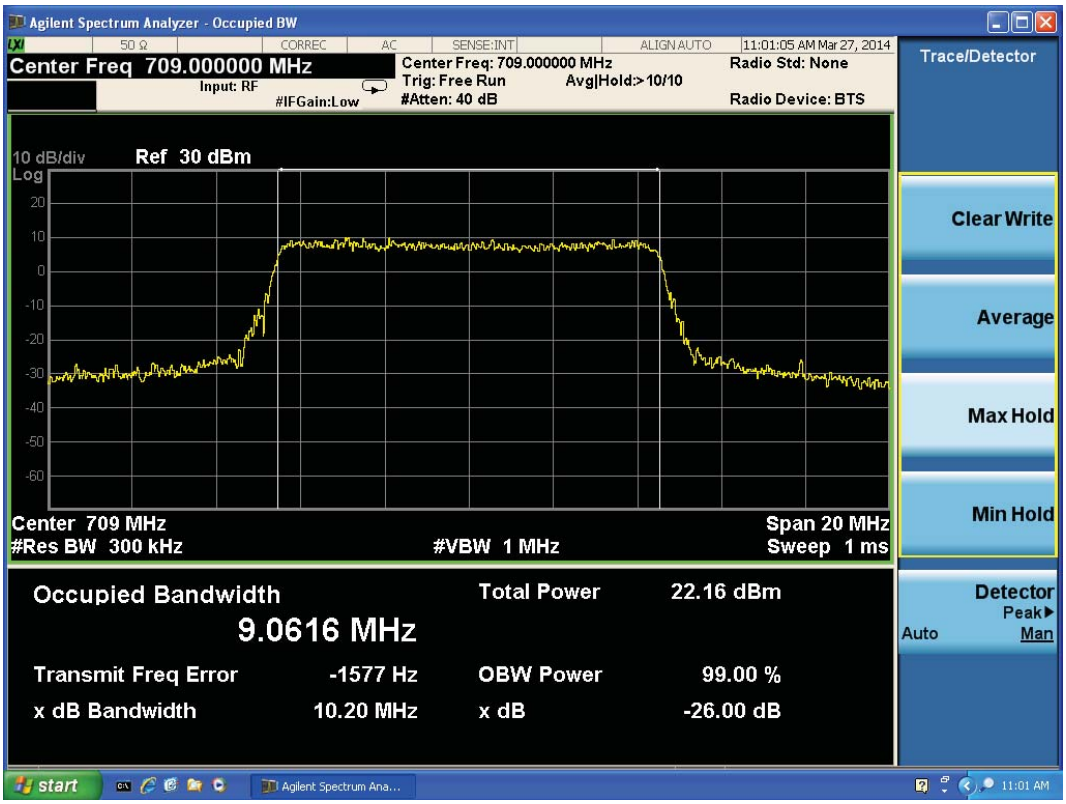


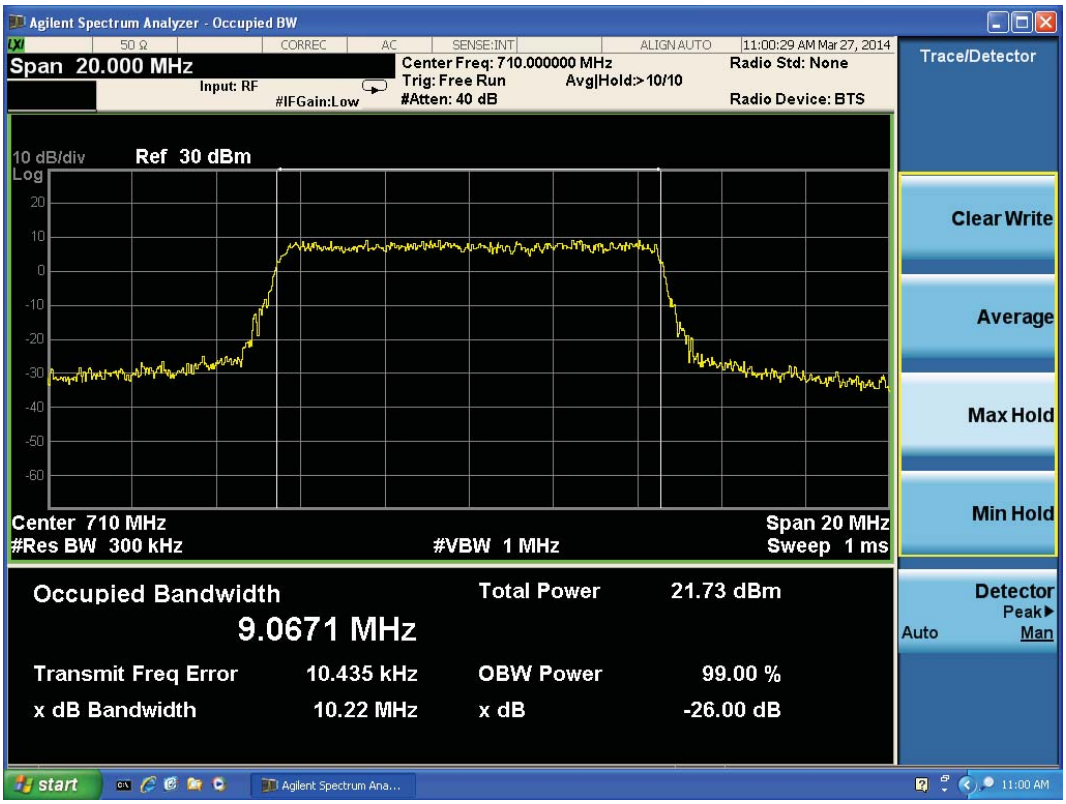

LTE Band 17 QPSK Bandwidth = 5MHz CH23790 Occupied Bandwidth



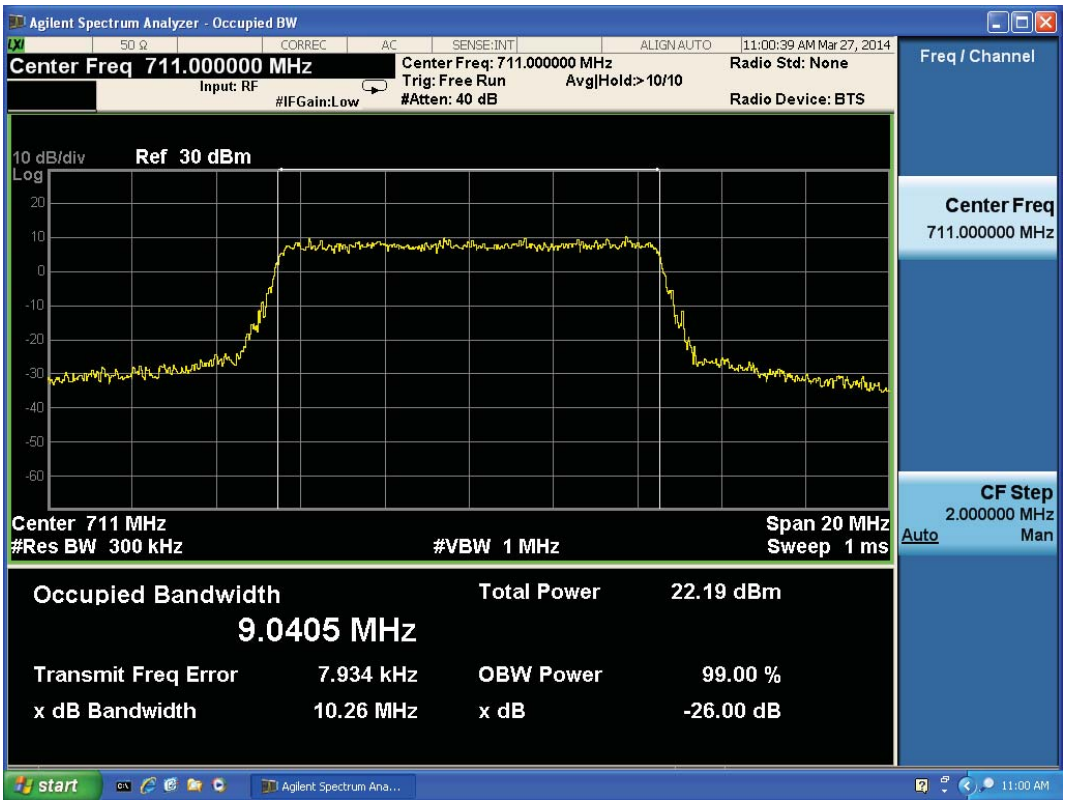

LTE Band 17 QPSK Bandwidth = 5MHz CH23825 Occupied Bandwidth



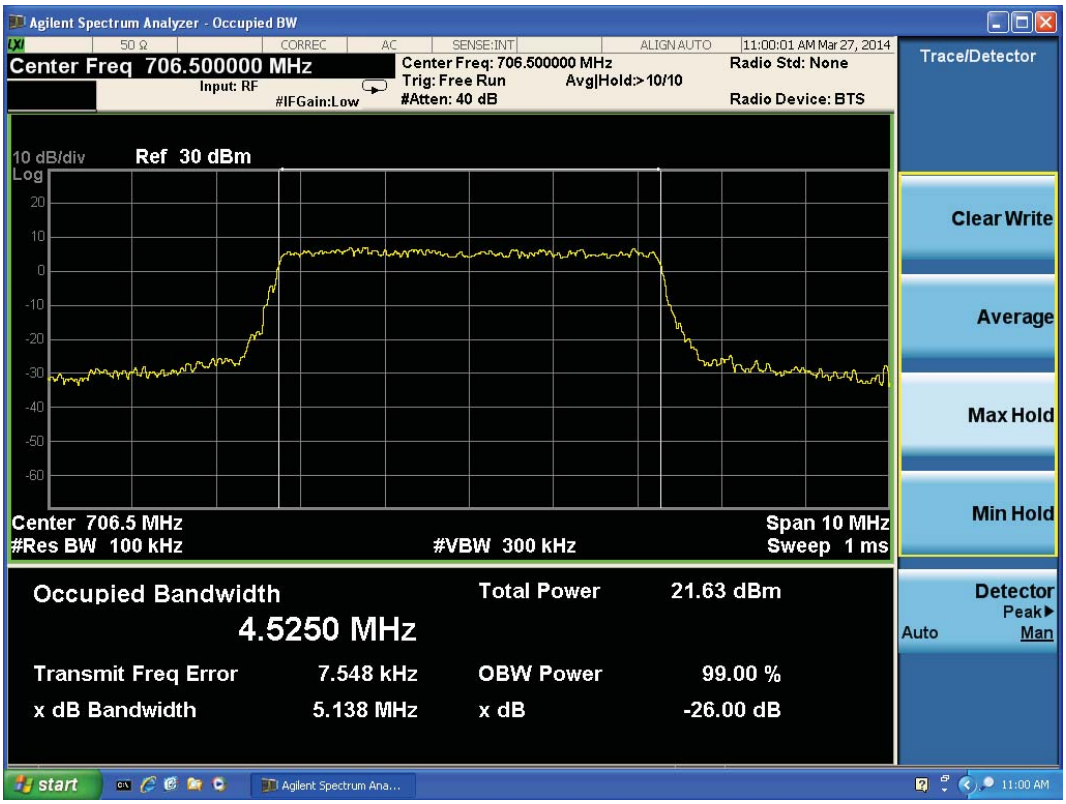

LTE Band 17 QPSK Bandwidth = 10MHz CH23780 Occupied Bandwidth



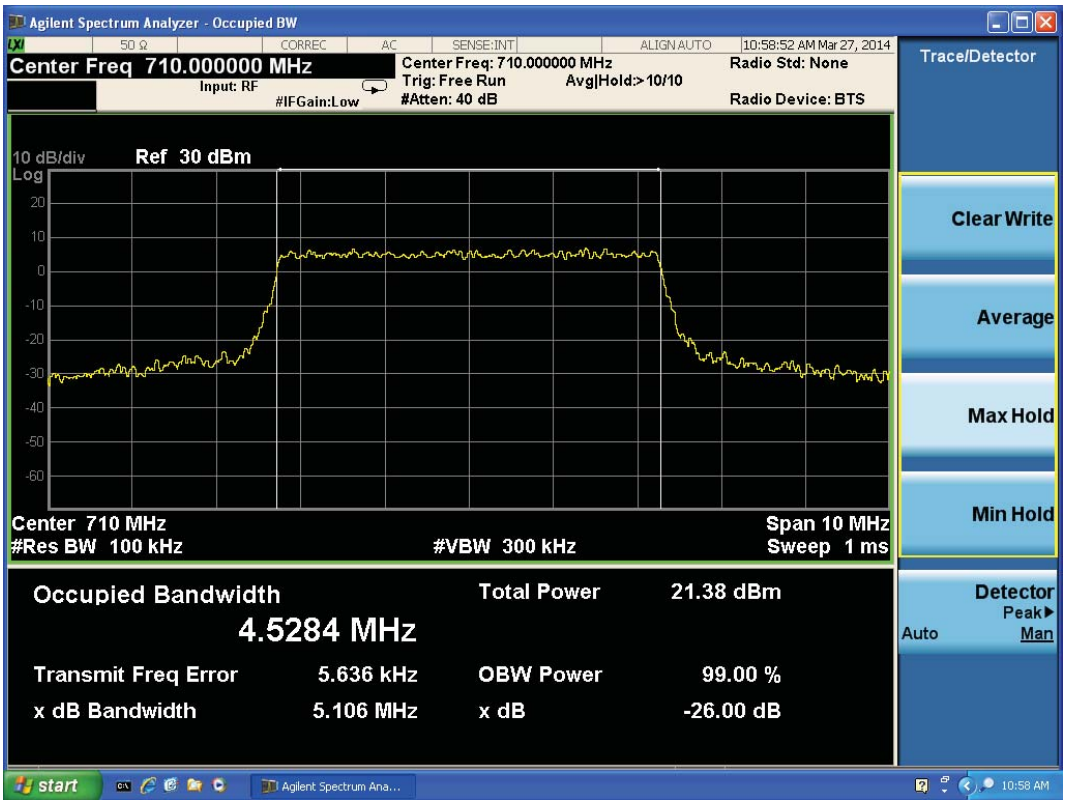

LTE Band 17 QPSK Bandwidth = 10MHz CH23790 Occupied Bandwidth



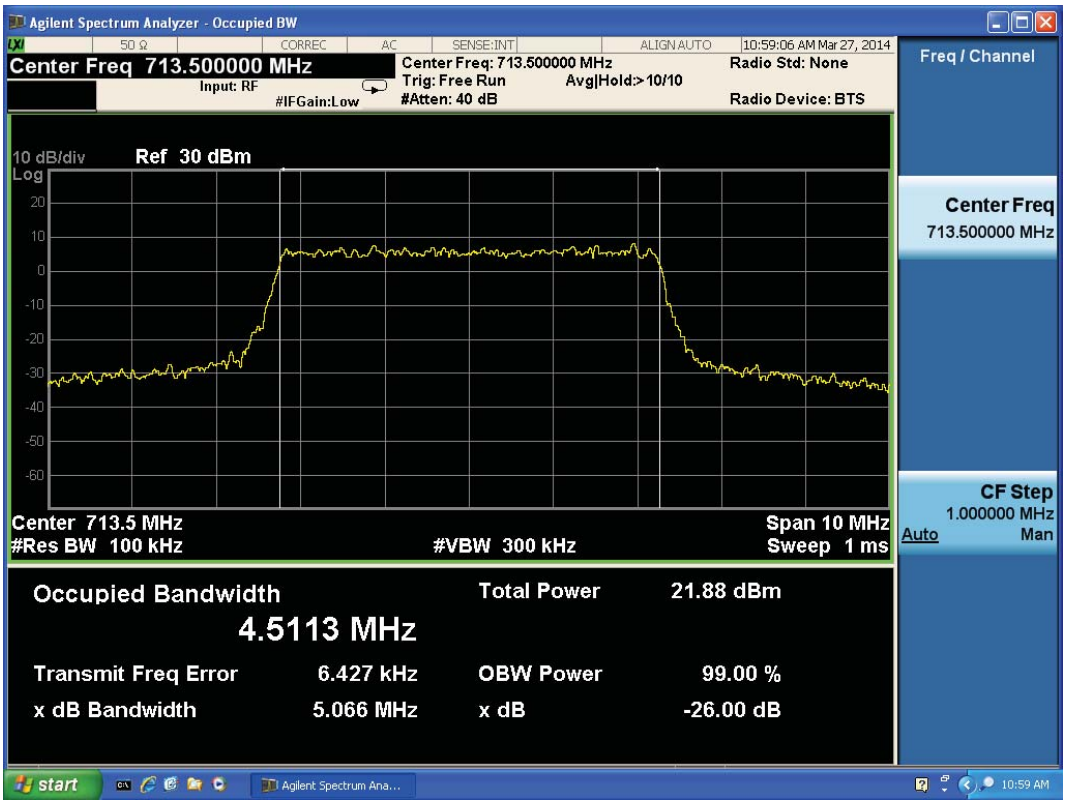

LTE Band 17 QPSK Bandwidth = 10MHz CH20350 Occupied Bandwidth



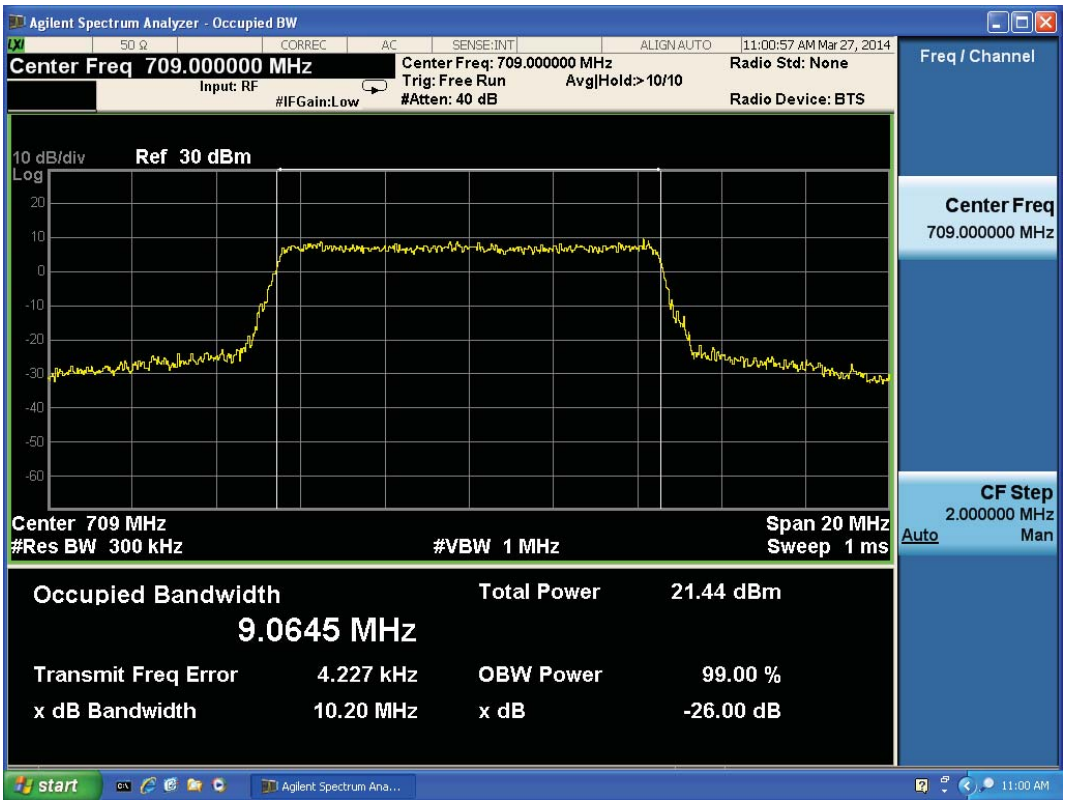

LTE Band 17 16QAM Bandwidth = 5MHz CH23755 Occupied Bandwidth



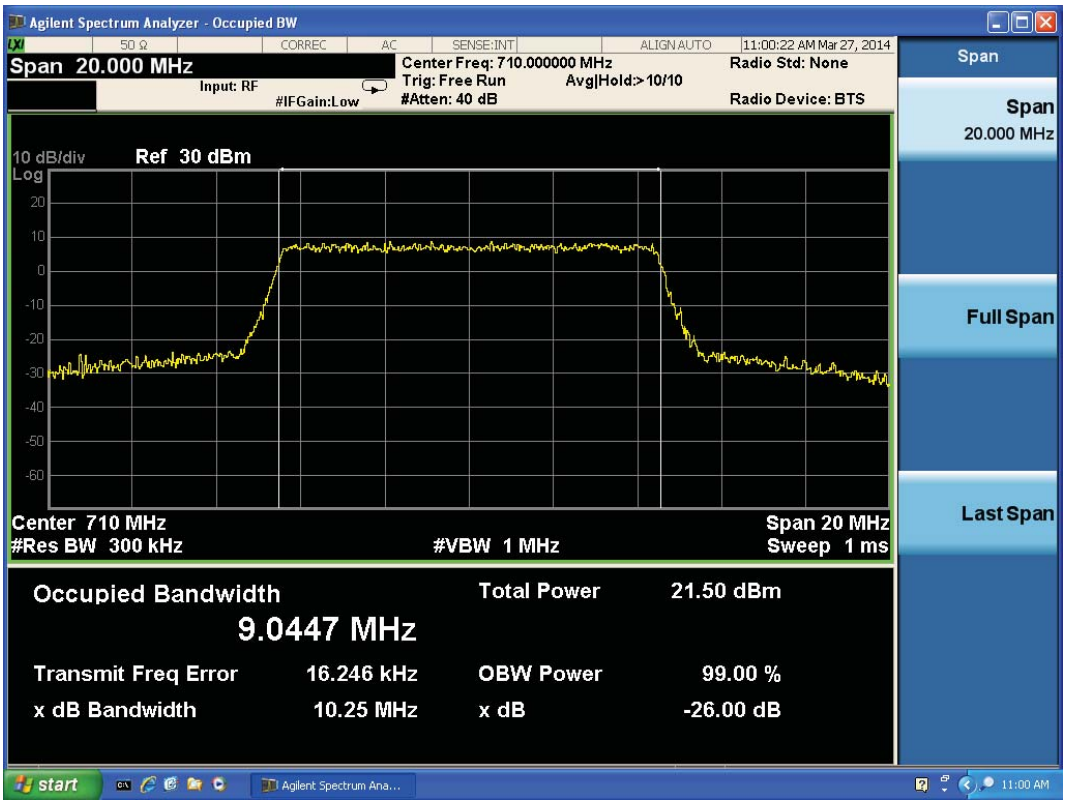

LTE Band 17 16QAM Bandwidth = 5MHz CH23790 Occupied Bandwidth



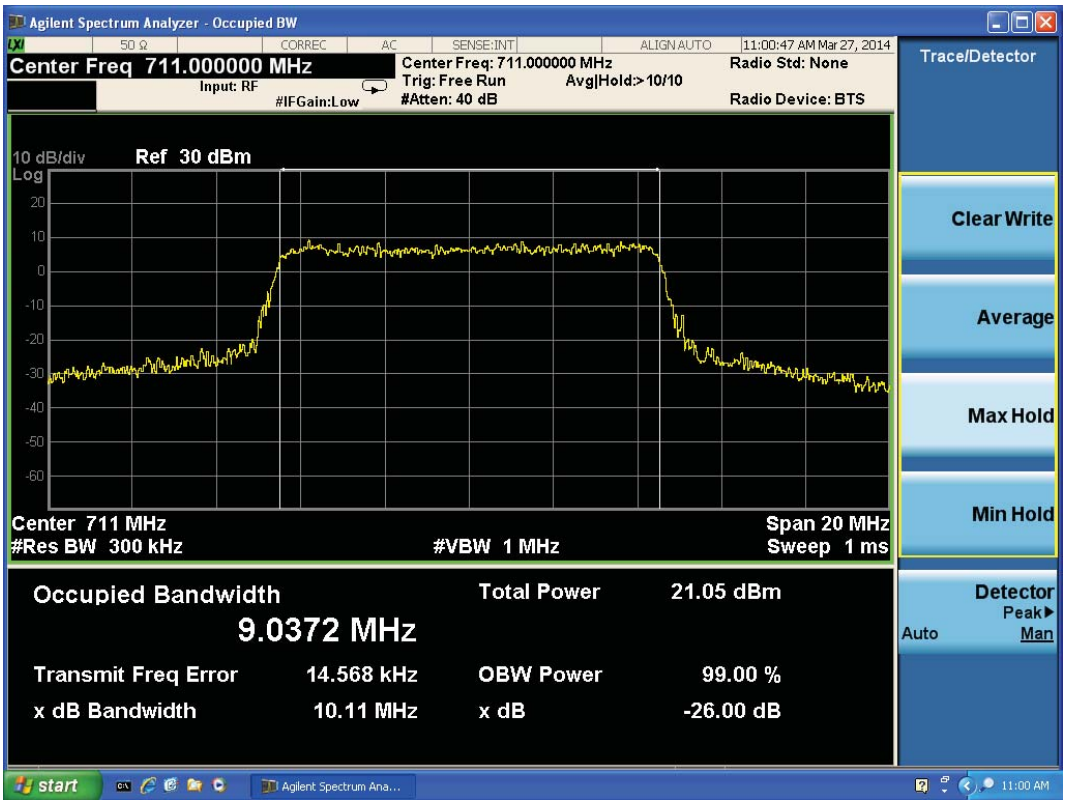

LTE Band 17 16QAM Bandwidth = 5MHz CH23825 Occupied Bandwidth




LTE Band 17 16QAM Bandwidth = 10MHz CH23780 Occupied Bandwidth




LTE Band 17 16QAM Bandwidth = 10MHz CH23790 Occupied Bandwidth




LTE Band 17 16QAM Bandwidth = 10MHz CH20350 Occupied Bandwidth

## 2.5. Band Edge Compliance

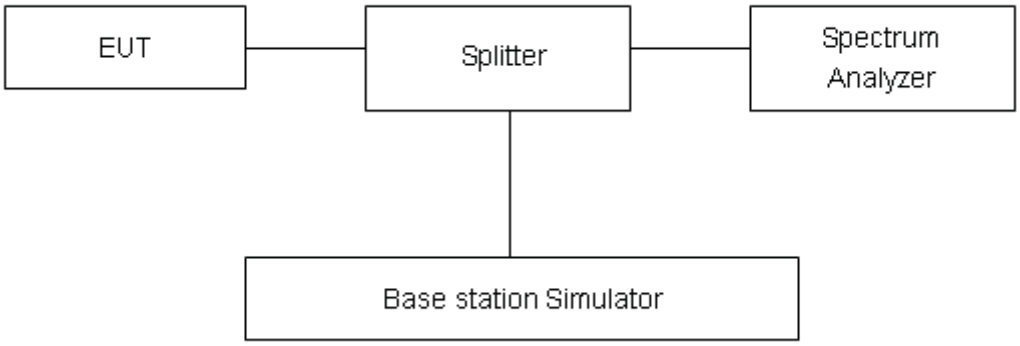
**Ambient condition**

| Temperature | Relative humidity | Pressure |
|---|---|---|
| 23°C ~25°C | 45%~50% | 101.5kPa |

**Method of Measurement**

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The band edge of the lowest and highest channels were measured. The RBW is set larger than 1% of 26dB bandwidth. The Average detector is used. Spectrum analyzer plots are included on the following pages.

**Test Setup**




**Limits**

Rule Part 27.53(h) specifies that “the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 + 10 log10 (P) dB.”

| | |
|---|---|
| Limit | -13 dBm |

**Measurement Uncertainty**

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k$ = 1.96, $U$=0.684dB.

**Test Result:**

| LTE Band 4 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Bandwidth** | **Modulation** | **Channel** | **RB** | **RB Start** | **Reference value (dBm)** | **Limit(dBm)** | **Conclusion** |
| 1.4MHz | QPSK | CH19957 | 1 | 0 | -16.766 | -13 | Pass |
| | | | 3 | 0 | -21.154 | -13 | Pass |
| | | | 6 | 0 | -24.323 | -13 | Pass |
| | | CH20393 | 1 | 5 | -17.673 | -13 | Pass |
| | | | 3 | 3 | -20.507 | -13 | Pass |
| | | | 6 | 0 | -24.270 | -13 | Pass |
| | 16QAM | CH19957 | 1 | 0 | -17.033 | -13 | Pass |
| | | | 3 | 0 | -21.658 | -13 | Pass |
| | | | 6 | 0 | -23.697 | -13 | Pass |
| | | CH20393 | 1 | 5 | -17.787 | -13 | Pass |
| | | | 3 | 3 | -21.194 | -13 | Pass |
| | | | 6 | 0 | -24.915 | -13 | Pass |
| 3MHz | QPSK | CH19965 | 1 | 0 | -13.815 | -13 | Pass |
| | | | 8 | 0 | -20.989 | -13 | Pass |
| | | | 15 | 0 | -24.384 | -13 | Pass |
| | | CH20385 | 1 | 14 | -13.276 | -13 | Pass |
| | | | 8 | 7 | -21.809 | -13 | Pass |
| | | | 15 | 0 | -24.264 | -13 | Pass |
| | 16QAM | CH19965 | 1 | 0 | -13.489 | -13 | Pass |
| | | | 8 | 0 | -21.738 | -13 | Pass |
| | | | 15 | 0 | -24.058 | -13 | Pass |
| | | CH20385 | 1 | 14 | -13.397 | -13 | Pass |
| | | | 8 | 7 | -21.531 | -13 | Pass |
| | | | 15 | 0 | -24.425 | -13 | Pass |
| 5MHz | QPSK | CH19975 | 1 | 0 | -13.744 | -13 | Pass |
| | | | 12 | 0 | -21.154 | -13 | Pass |
| | | | 25 | 0 | -24.323 | -13 | Pass |
| | | CH20375 | 1 | 24 | -15.212 | -13 | Pass |
| | | | 12 | 13 | -20.507 | -13 | Pass |
| | | | 25 | 0 | -24.270 | -13 | Pass |
| | 16QAM | CH19975 | 1 | 0 | -15.810 | -13 | Pass |
| | | | 12 | 0 | -24.218 | -13 | Pass |
| | | | 25 | 0 | -27.420 | -13 | Pass |
| | | CH20375 | 1 | 24 | -13.917 | -13 | Pass |
| | | | 12 | 13 | -24.219 | -13 | Pass |
| | | | 25 | 0 | -28.934 | -13 | Pass |
| 10MHz | QPSK | CH20000 | 1 | 0 | -16.932 | -13 | Pass |
| | | | 25 | 0 | -27.165 | -13 | Pass |
| | | | 50 | 0 | -29.625 | -13 | Pass |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | CH20350 | 1 | 49 | -16.685 | -13 | Pass |
| | | | 25 | 25 | -27.532 | -13 | Pass |
| | | | 50 | 0 | -29.625 | -13 | Pass |
| | 16QAM | CH20000 | 1 | 0 | -16.591 | -13 | Pass |
| | | | 25 | 0 | -27.607 | -13 | Pass |
| | | | 50 | 0 | -29.097 | -13 | Pass |
| | | CH20350 | 1 | 49 | -18.223 | -13 | Pass |
| | | | 25 | 25 | -27.607 | -13 | Pass |
| | | | 50 | 0 | -29.476 | -13 | Pass |
| 15MHz | QPSK | CH20025 | 1 | 0 | -14.767 | -13 | Pass |
| | | | 38 | 0 | -25.938 | -13 | Pass |
| | | | 75 | 0 | -28.615 | -13 | Pass |
| | | CH20325 | 1 | 74 | -15.912 | -13 | Pass |
| | | | 38 | 37 | -27.686 | -13 | Pass |
| | | | 75 | 0 | -28.300 | -13 | Pass |
| | 16QAM | CH20025 | 1 | 0 | -15.378 | -13 | Pass |
| | | | 38 | 0 | -26.150 | -13 | Pass |
| | | | 75 | 0 | -30.293 | -13 | Pass |
| | | CH20325 | 1 | 74 | -16.605 | -13 | Pass |
| | | | 38 | 37 | -27.139 | -13 | Pass |
| | | | 75 | 0 | -28.595 | -13 | Pass |
| 20MHz | QPSK | CH20050 | 1 | 0 | -20.698 | -13 | Pass |
| | | | 50 | 0 | -29.415 | -13 | Pass |
| | | | 100 | 0 | -30.529 | -13 | Pass |
| | | CH20300 | 1 | 99 | -20.028 | -13 | Pass |
| | | | 50 | 49 | -30.758 | -13 | Pass |
| | | | 100 | 0 | -30.253 | -13 | Pass |
| | 16QAM | CH20050 | 1 | 0 | -21.771 | -13 | Pass |
| | | | 50 | 0 | -29.671 | -13 | Pass |
| | | | 100 | 0 | -31.544 | -13 | Pass |
| | | CH20300 | 1 | 99 | -22.080 | -13 | Pass |
| | | | 50 | 49 | -29.488 | -13 | Pass |
| | | | 100 | 0 | -30.059 | -13 | Pass |

LTE Band 4 QPSK Bandwidth = 1.4MHz CH19957,RB 1

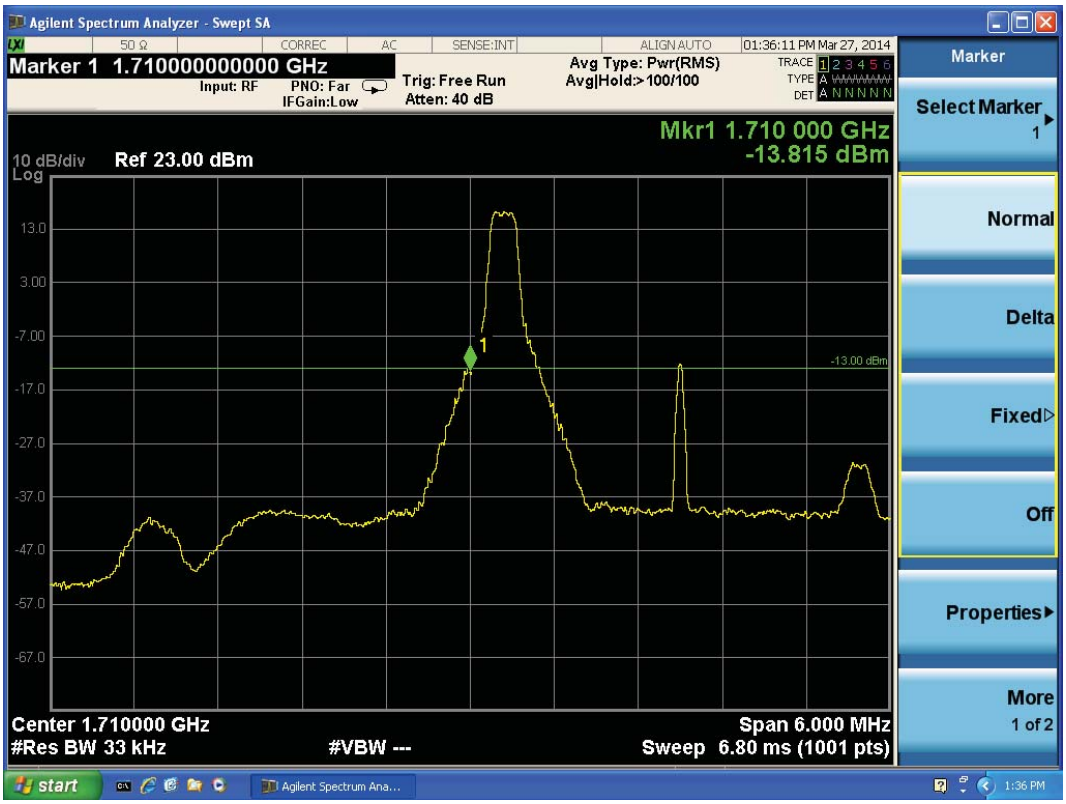
LTE Band 4 QPSK Bandwidth = 1.4MHz CH19957,RB 3

LTE Band 4 QPSK Bandwidth = 1.4MHz CH19957,RB 6

LTE Band 4 QPSK Bandwidth = 1.4MHz CH20393,RB 1

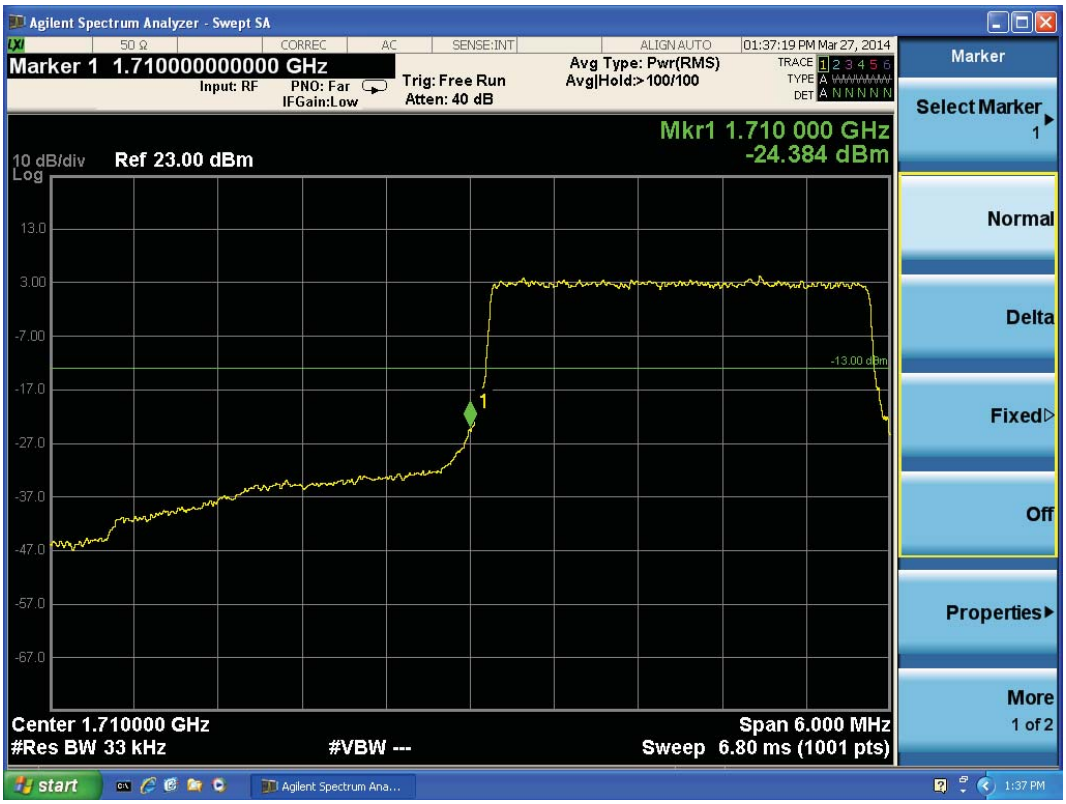
LTE Band 4 QPSK Bandwidth = 1.4MHz CH20393,RB 3

LTE Band 4 QPSK Bandwidth = 1.4MHz CH20393,RB 6

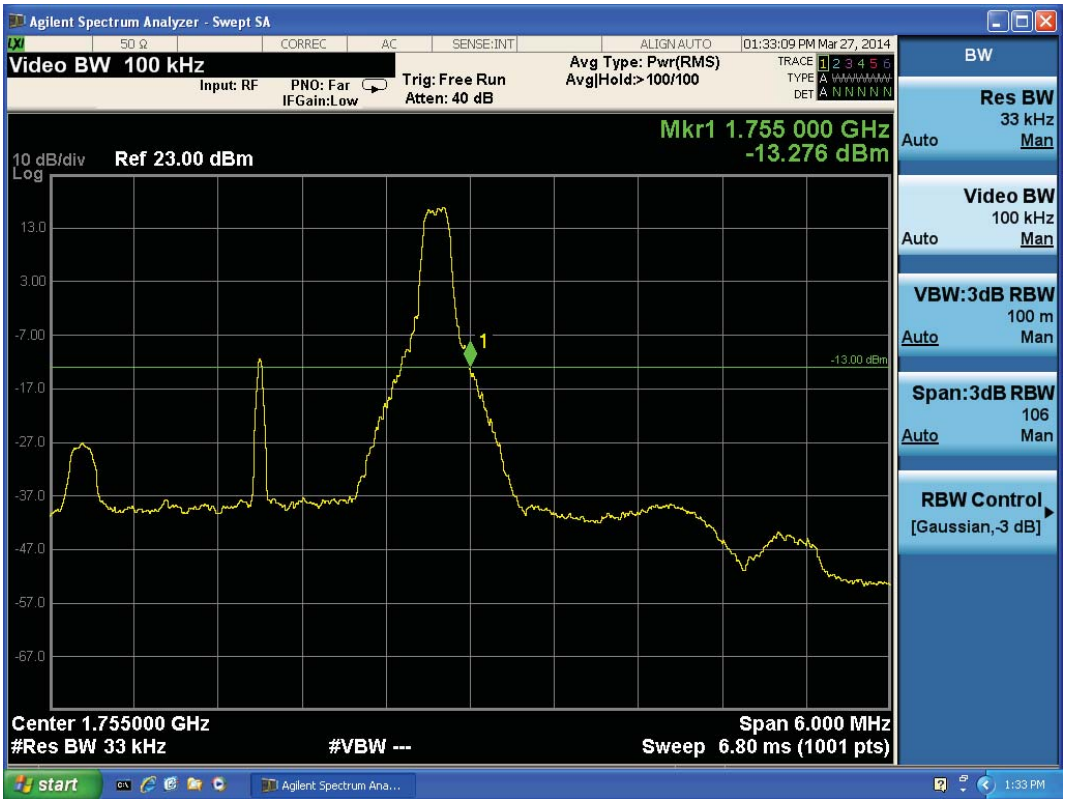



LTE Band 4 QPSK Bandwidth = 3MHz CH19965,RB 1

LTE Band 4 QPSK Bandwidth = 3MHz CH19965,RB 8




LTE Band 4 QPSK Bandwidth = 3MHz CH19965,RB 15




LTE Band 4 QPSK Bandwidth = 3MHz CH20385,RB 1

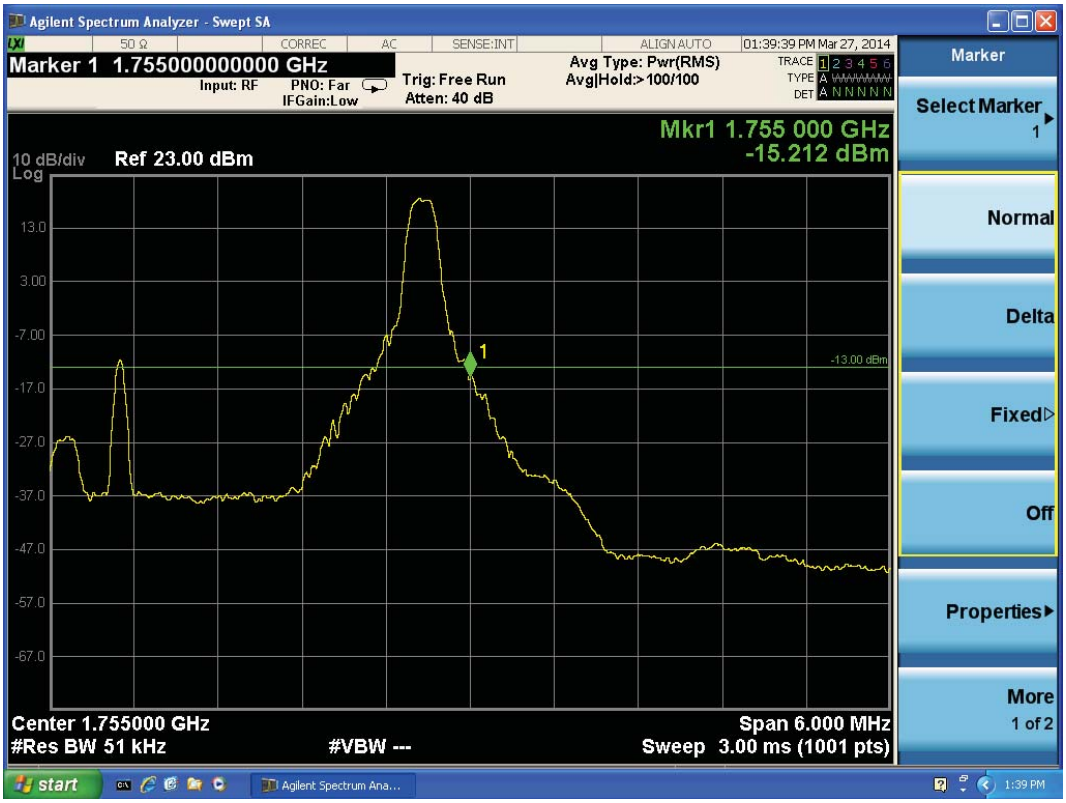
LTE Band 4 QPSK Bandwidth = 3MHz CH20385,RB 8

LTE Band 4 QPSK Bandwidth = 3MHz CH20385,RB 15

LTE Band 4 QPSK Bandwidth = 5MHz CH19975,RB 1

LTE Band 4 QPSK Bandwidth = 5MHz CH19975,RB 12

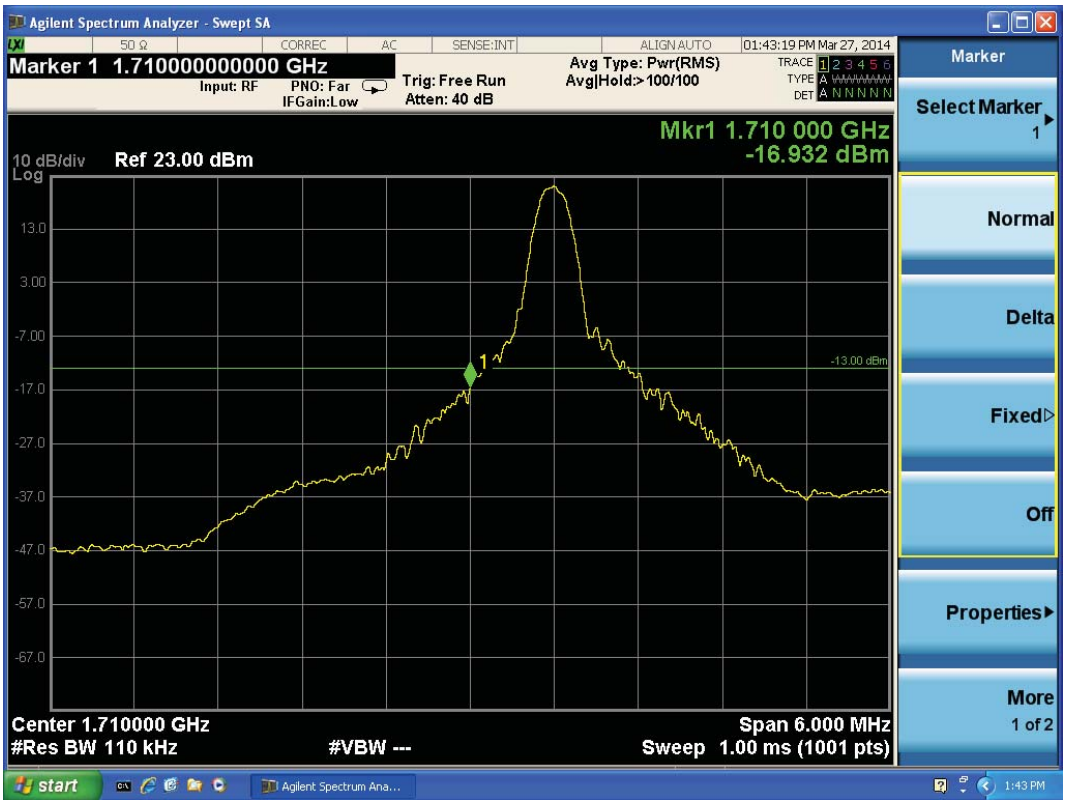
LTE Band 4 QPSK Bandwidth = 5MHz CH19975,RB 25




LTE Band 4 QPSK Bandwidth = 5MHz CH20375,RB 1

LTE Band 4 QPSK Bandwidth = 5MHz CH20375,RB 12

LTE Band 4 QPSK Bandwidth = 5MHz CH20375,RB 25




LTE Band 4 QPSK Bandwidth = 10MHz CH20000,RB 1

LTE Band 4 QPSK Bandwidth = 10MHz CH20000,RB 25

LTE Band 4 QPSK Bandwidth = 10MHz CH20000,RB 50

LTE Band 4 QPSK Bandwidth = 10MHz CH20350,RB 1