



B5 / 5MHz / QPSK/ Low CH



B5 / 5MHz / 16QAM/ Low CH



B5 / 5MHz / 64QAM/ Low CH



B5 / 5MHz / QPSK/ Mid CH



B5 / 5MHz / 16QAM/ Mid CH



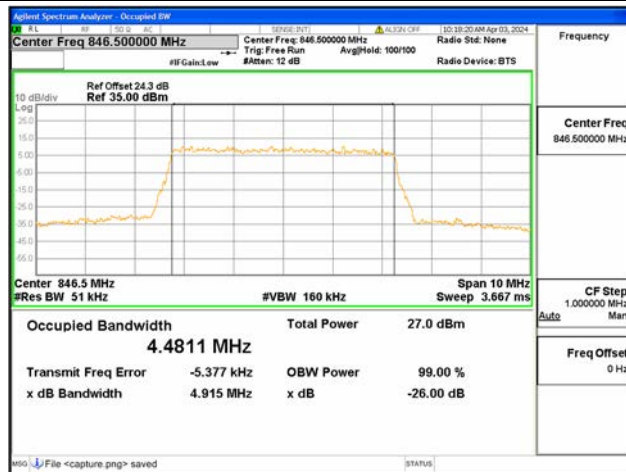
B5 / 5MHz / 64QAM/ Mid CH



B5 / 5MHz / QPSK/ High CH



B5 / 5MHz / 16QAM/ High CH



B5 / 5MHz / 64QAM/ High CH



B5 / 10MHz / QPSK/ Low CH



B5 / 10MHz / 16QAM/ Low CH



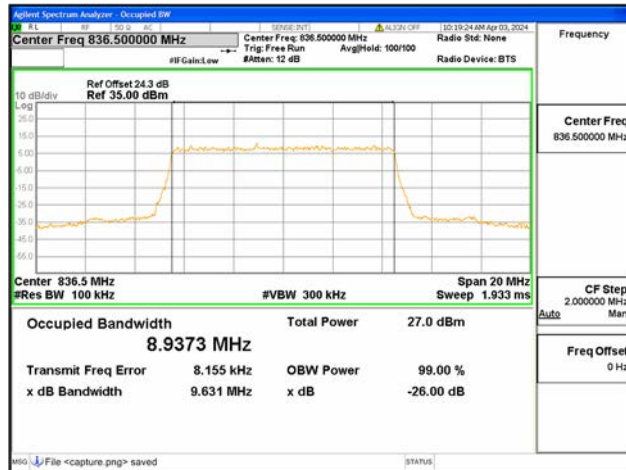
B5 / 10MHz / 64QAM/ Low CH



B5 / 10MHz / QPSK/ Mid CH



B5 / 10MHz / 16QAM/ Mid CH



B5 / 10MHz / 64QAM/ Mid CH



B5 / 10MHz / QPSK/ High CH



B5 / 10MHz / 16QAM/ High CH



B5 / 10MHz / 64QAM/ High CH





B12 / 1.4MHz / QPSK/ Low CH



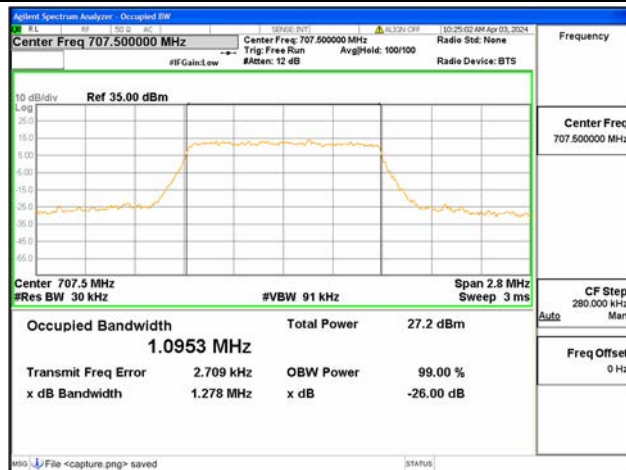
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B12 / 1.4MHz / 64QAM/ Low CH



B12 / 1.4MHz / QPSK/ Mid CH



B12 / 1.4MHz / 16QAM/ Mid CH



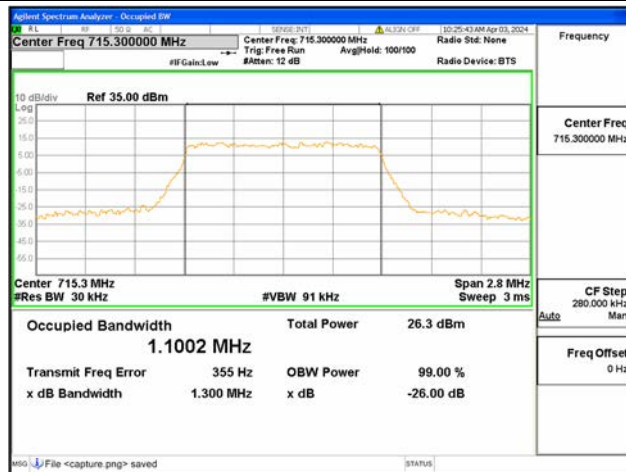
B12 / 1.4MHz / 64QAM/ Mid CH



B12 / 1.4MHz / QPSK/ High CH



B12 / 1.4MHz / 16QAM/ High CH



B12 / 1.4MHz / 64QAM/ High CH



B12 / 3MHz / QPSK/ Low CH



B12 / 3MHz / 16QAM/ Low CH



B12 / 3MHz / 64QAM/ Low CH



B12 / 3MHz / QPSK/ Mid CH



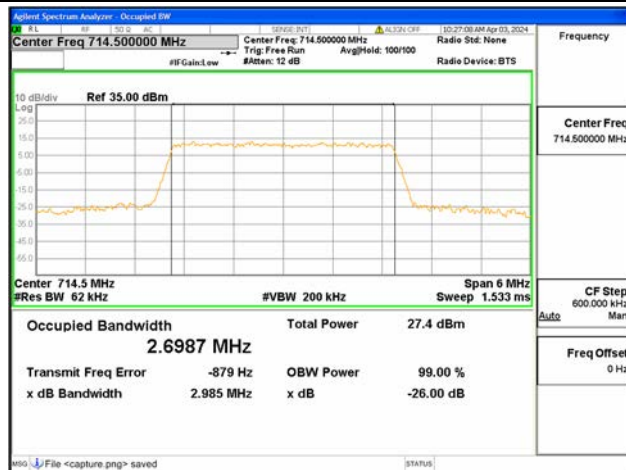
B12 / 3MHz / 16QAM/ Mid CH



B12 / 3MHz / 64QAM/ Mid CH



B12 / 3MHz / QPSK/ High CH



B12 / 3MHz / 16QAM/ High CH



B12 / 3MHz / 64QAM/ High CH

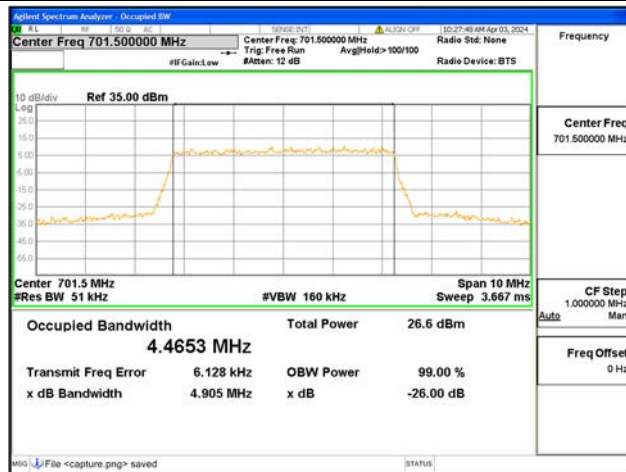




B12 / 5MHz / QPSK/ Low CH



B12 / 5MHz / 16QAM/ Low CH



B12 / 5MHz / 64QAM/ Low CH



B12 / 5MHz / QPSK/ Mid CH



B12 / 5MHz / 16QAM/ Mid CH



B12 / 5MHz / 64QAM/ Mid CH



B12 / 5MHz / QPSK/ High CH



B12 / 5MHz / 16QAM/ High CH



B12 / 5MHz / 64QAM/ High CH



B12 / 10MHz / QPSK/ Low CH



B12 / 10MHz / 16QAM/ Low CH



B12 / 10MHz / 64QAM/ Low CH





B12 / 10MHz / QPSK / Mid CH



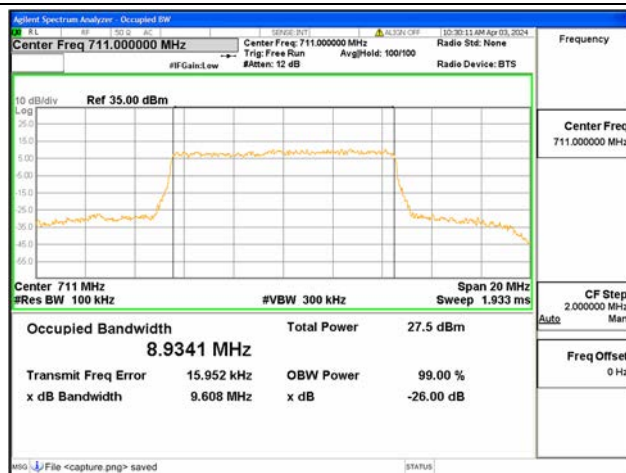
B12 / 10MHz / 16QAM / Mid CH



B12 / 10MHz / 64QAM / Mid CH



B12 / 10MHz / QPSK / High CH



B12 / 10MHz / 16QAM / High CH



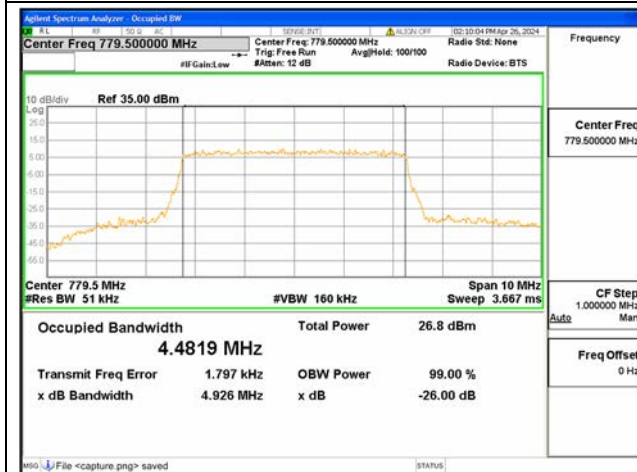
B12 / 10MHz / 64QAM / High CH



B13 / 5MHz / QPSK/ Low CH



B13 / 5MHz / 16QAM/ Low CH



B13 / 5MHz / 64QAM/ Low CH



B13 / 5MHz / QPSK/ Mid CH



B13 / 5MHz / 16QAM/ Mid CH



B13 / 5MHz / 64QAM/ Mid CH



B13 / 5MHz / QPSK/ High CH



B13 / 5MHz / 16QAM/ High CH



B13 / 5MHz / 64QAM/ High CH



B13 / 10MHz / QPSK/ Mid CH



B13 / 10MHz / 16QAM/ Mid CH



B13 / 10MHz / 64QAM/ Mid CH





B66 / 1.4MHz / QPSK/ Low CH



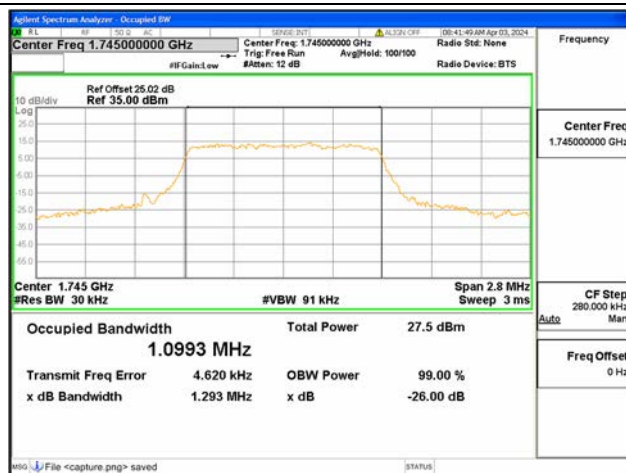
B66 / 1.4MHz / 16QAM/ Low CH



B66 / 1.4MHz / 64QAM/ Low CH



B66 / 1.4MHz / QPSK/ Mid CH



B66 / 1.4MHz / 16QAM/ Mid CH



B66 / 1.4MHz / 64QAM/ Mid CH



B66 / 1.4MHz / QPSK/ High CH



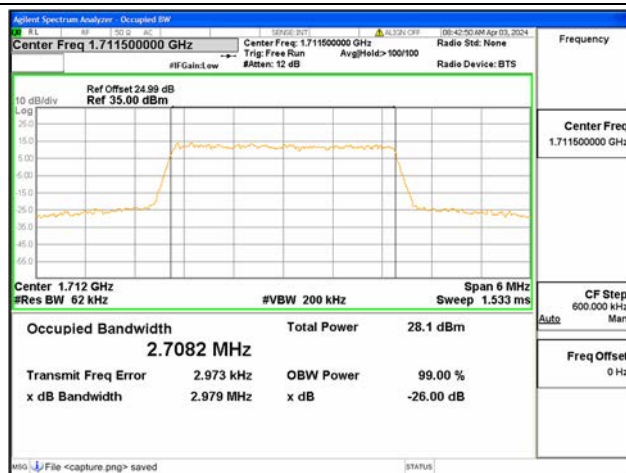
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B66 / 1.4MHz / 64QAM/ High CH



B66 / 3MHz / QPSK/ Low CH



B66 / 3MHz / 16QAM/ Low CH



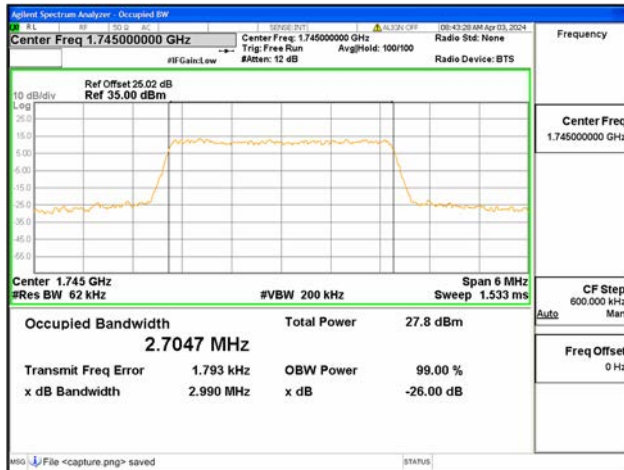
B66 / 3MHz / 64QAM/ Low CH



B66 / 3MHz / QPSK/ Mid CH



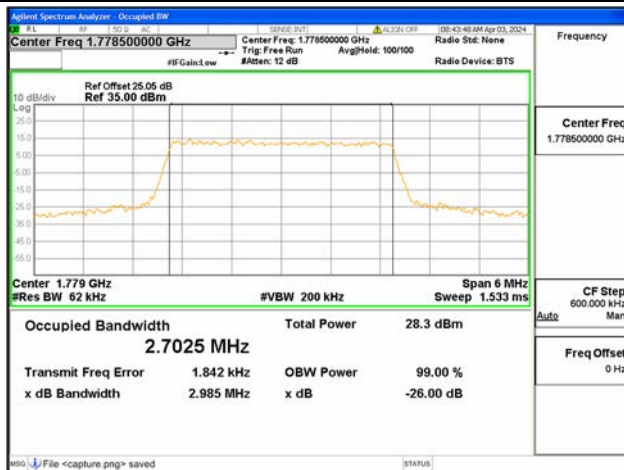
B66 / 3MHz / 16QAM/ Mid CH



B66 / 3MHz / 64QAM/ Mid CH



B66 / 3MHz / QPSK/ High CH



B66 / 3MHz / 16QAM/ High CH



B66 / 3MHz / 64QAM/ High CH

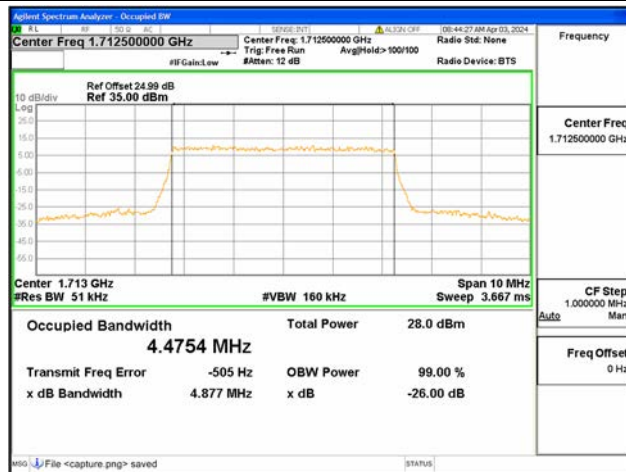




B66 / 5MHz / QPSK/ Low CH



B66 / 5MHz / 16QAM/ Low CH



B66 / 5MHz / 64QAM/ Low CH



B66 / 5MHz / QPSK/ Mid CH



B66 / 5MHz / 16QAM/ Mid CH



B66 / 5MHz / 64QAM/ Mid CH



B66 / 5MHz / QPSK/ High CH



B66 / 5MHz / 16QAM/ High CH



B66 / 5MHz / 64QAM/ High CH



B66 / 10MHz / QPSK/ Low CH



B66 / 10MHz / 16QAM/ Low CH



B66 / 10MHz / 64QAM/ Low CH



B66 / 10MHz / QPSK / Mid CH



B66 / 10MHz / 16QAM / Mid CH



B66 / 10MHz / 64QAM / Mid CH



B66 / 10MHz / QPSK / High CH



B66 / 10MHz / 16QAM / High CH



B66 / 10MHz / 64QAM / High CH

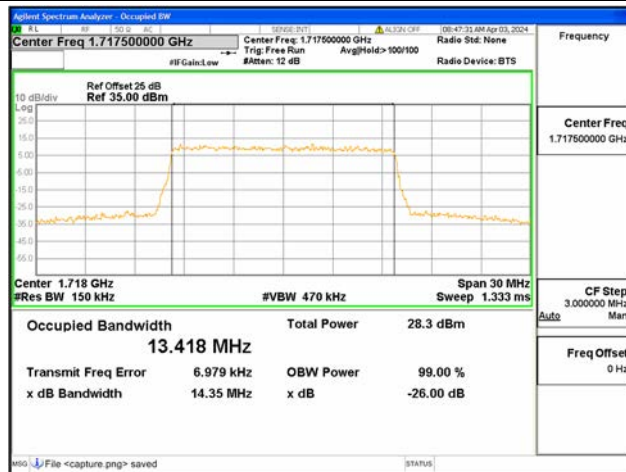




B66 / 15MHz / QPSK/ Low CH



B66 / 15MHz / 16QAM/ Low CH



B66 / 15MHz / 64QAM/ Low CH



B66 / 15MHz / QPSK/ Mid CH



B66 / 15MHz / 16QAM/ Mid CH



B66 / 15MHz / 64QAM/ Mid CH



B66 / 15MHz / QPSK/ High CH



B66 / 15MHz / 16QAM/ High CH



B66 / 15MHz / 64QAM/ High CH



B66 / 20MHz / QPSK/ Low CH



B66 / 20MHz / 16QAM/ Low CH



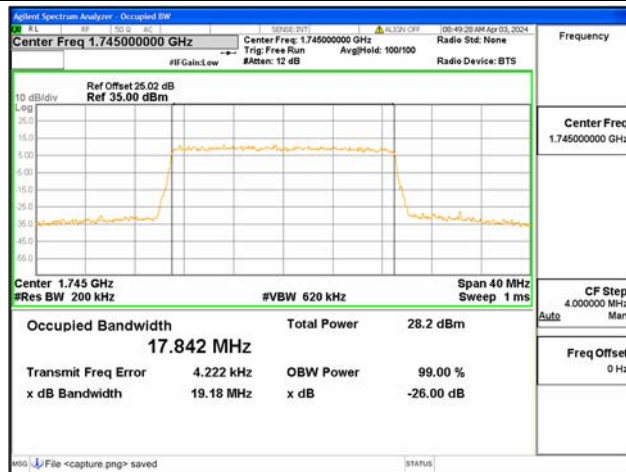
B66 / 20MHz / 64QAM/ Low CH



B66 / 20MHz / QPSK / Mid CH



B66 / 20MHz / 16QAM / Mid CH



B66 / 20MHz / 64QAM / Mid CH



B66 / 20MHz / QPSK / High CH



B66 / 20MHz / 16QAM / High CH



B66 / 20MHz / 64QAM / High CH



## 2.3. Frequency Stability

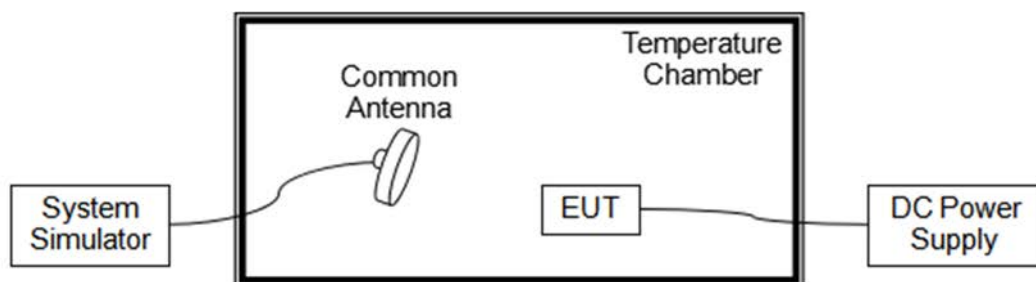
### 2.3.1. Requirement

According to FCC section 2.1055, 24.235, 27.54, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from  $-30^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$  at intervals of not more than  $10^{\circ}\text{C}$ .
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

**Note:** The operating temperature of EUT is from  $0^{\circ}\text{C}$  to  $40^{\circ}\text{C}$ , which are specified by the applicant.

### 2.3.2. Test Description



The EUT which is powered by the DC Power Supply directly, is located in the Temperature Chamber. The EUT is commanded by the System Simulator (SS) to operate at the maximum output power. A call is established between the EUT and the SS via a Common Antenna.

### 2.3.3. Test Procedure

KDB 971168 D01v03 Section 9.0 and ANSI/TIA-603-E-2016.

**2.3.4. Test Result**

The nominal, highest and lowest extreme voltages are separately 3.87V, 4.45V and 3.40V, which are specified by the applicant; the normal temperature here used is 20°C.

| <b>LTE Band 2, 64QAM, Channel 18900, Frequency 1880.0MHz</b> |                    |                 |                      |                        |               |
|--------------------------------------------------------------|--------------------|-----------------|----------------------|------------------------|---------------|
| <b>Limit =Within Authorized Band</b>                         |                    |                 |                      |                        |               |
| <b>Voltage (%)</b>                                           | <b>Power (VDC)</b> | <b>Temp(°C)</b> | <b>Fre. Dev.(Hz)</b> | <b>Deviation (ppm)</b> | <b>Result</b> |
| Normal                                                       | 3.87               | +20(Ref)        | 19                   | <b>0.010</b>           | PASS          |
| Normal                                                       |                    | 0               | -15                  | -0.008                 |               |
| Normal                                                       |                    | +10             | -21                  | -0.011                 |               |
| Normal                                                       |                    | +20             | 3                    | 0.002                  |               |
| Normal                                                       |                    | +30             | 16                   | 0.009                  |               |
| Normal                                                       |                    | +40             | -21                  | -0.011                 |               |
| High                                                         | 4.45               | +20             | -4                   | -0.002                 |               |
| BATT.ENDPOINT                                                | 3.40               | +20             | 17                   | 0.009                  |               |

| <b>LTE Band 4, 64QAM, Channel 20175, Frequency 1732.5MHz</b> |                    |                 |                      |                        |               |
|--------------------------------------------------------------|--------------------|-----------------|----------------------|------------------------|---------------|
| <b>Limit =Within Authorized Band</b>                         |                    |                 |                      |                        |               |
| <b>Voltage (%)</b>                                           | <b>Power (VDC)</b> | <b>Temp(°C)</b> | <b>Fre. Dev.(Hz)</b> | <b>Deviation (ppm)</b> | <b>Result</b> |
| Normal                                                       | 3.87               | +20(Ref)        | 20                   | <b>0.012</b>           | PASS          |
| Normal                                                       |                    | 0               | 14                   | 0.008                  |               |
| Normal                                                       |                    | +10             | 11                   | 0.006                  |               |
| Normal                                                       |                    | +20             | 20                   | <b>0.012</b>           |               |
| Normal                                                       |                    | +30             | 13                   | 0.008                  |               |
| Normal                                                       |                    | +40             | 18                   | 0.010                  |               |
| High                                                         | 4.45               | +20             | 7                    | 0.004                  |               |
| BATT.ENDPOINT                                                | 3.40               | +20             | 18                   | 0.010                  |               |



| LTE Band 5, 64QAM, Channel 20525, Frequency 836.5MHz<br>Limit=±2.5ppm |             |          |               |                 |        |
|-----------------------------------------------------------------------|-------------|----------|---------------|-----------------|--------|
| Voltage (%)                                                           | Power (VDC) | Temp(°C) | Fre. Dev.(Hz) | Deviation (ppm) | Result |
| Normal                                                                | 3.87        | +20(Ref) | 2             | 0.002           | PASS   |
| Normal                                                                |             | 0        | 20            | <b>0.024</b>    |        |
| Normal                                                                |             | +10      | -19           | -0.023          |        |
| Normal                                                                |             | +20      | 5             | 0.006           |        |
| Normal                                                                |             | +30      | 20            | <b>0.024</b>    |        |
| Normal                                                                |             | +40      | 16            | 0.019           |        |
| High                                                                  | 4.45        | +20      | -7            | -0.008          |        |
| BATT.ENDPOINT                                                         | 3.40        | +20      | 20            | <b>0.024</b>    |        |

| LTE Band 12, 64QAM, Channel 23095, Frequency 707.5MHz<br>Limit =Within Authorized Band |             |          |               |                 |        |
|----------------------------------------------------------------------------------------|-------------|----------|---------------|-----------------|--------|
| Voltage (%)                                                                            | Power (VDC) | Temp(°C) | Fre. Dev.(Hz) | Deviation (ppm) | Result |
| Normal                                                                                 | 3.87        | +20(Ref) | 23            | <b>0.033</b>    | PASS   |
| Normal                                                                                 |             | 0        | -2            | -0.003          |        |
| Normal                                                                                 |             | +10      | 15            | 0.021           |        |
| Normal                                                                                 |             | +20      | 13            | 0.018           |        |
| Normal                                                                                 |             | +30      | -10           | -0.014          |        |
| Normal                                                                                 |             | +40      | 14            | 0.020           |        |
| High                                                                                   | 4.45        | +20      | 15            | 0.021           |        |
| BATT.ENDPOINT                                                                          | 3.40        | +20      | 13            | 0.018           |        |





| LTE Band 13, 64QAM, Channel 23230, Frequency 782.0MHz<br>Limit =Within Authorized Band |             |          |               |                 |        |
|----------------------------------------------------------------------------------------|-------------|----------|---------------|-----------------|--------|
| Voltage (%)                                                                            | Power (VDC) | Temp(°C) | Fre. Dev.(Hz) | Deviation (ppm) | Result |
| Normal                                                                                 | 3.87        | +20(Ref) | 19            | 0.024           | PASS   |
| Normal                                                                                 |             | 0        | -9            | -0.012          |        |
| Normal                                                                                 |             | +10      | 13            | 0.017           |        |
| Normal                                                                                 |             | +20      | -21           | -0.027          |        |
| Normal                                                                                 |             | +30      | 22            | <b>0.028</b>    |        |
| Normal                                                                                 |             | +40      | 14            | 0.018           |        |
| High                                                                                   | 4.45        | +20      | 15            | 0.019           |        |
| BATT.ENDPOINT                                                                          | 3.40        | +20      | -8            | -0.010          |        |

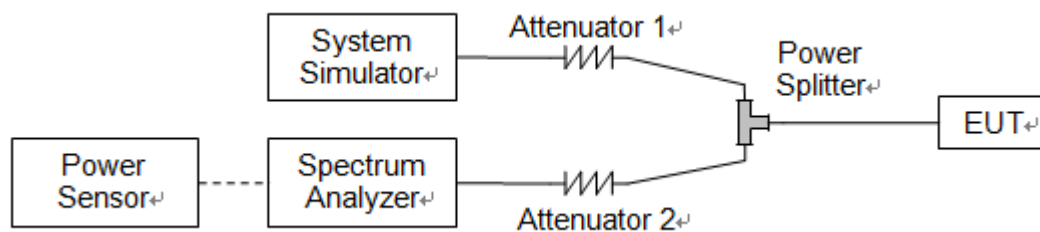
| LTE Band 66, 64QAM, Channel 132322, Frequency 1745MHz<br>Limit =Within Authorized Band |             |          |               |                 |        |
|----------------------------------------------------------------------------------------|-------------|----------|---------------|-----------------|--------|
| Voltage (%)                                                                            | Power (VDC) | Temp(°C) | Fre. Dev.(Hz) | Deviation (ppm) | Result |
| Normal                                                                                 | 3.87        | +20(Ref) | 4             | 0.002           | PASS   |
| Normal                                                                                 |             | 0        | 16            | 0.009           |        |
| Normal                                                                                 |             | +10      | 19            | <b>0.011</b>    |        |
| Normal                                                                                 |             | +20      | 13            | 0.007           |        |
| Normal                                                                                 |             | +30      | 17            | 0.010           |        |
| Normal                                                                                 |             | +40      | 13            | 0.007           |        |
| High                                                                                   | 4.45        | +20      | 19            | <b>0.011</b>    |        |
| BATT.ENDPOINT                                                                          | 3.40        | +20      | 15            | 0.009           |        |

## 2.4. Peak to Average Ratio

### 2.4.1. Requirement

According to FCC section 24.232(d), 27.50(d) and 27.50(j)(4), the peak to average ratio (PAR) of the transmission may not exceed 13dB.

### 2.4.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

### 2.4.3. Test Procedure

KDB 971168 D01v03 Section 5.7 and ANSI/TIA-603-E-2016.

### 2.4.4. Test Result

Record the maximum PAPR level associated with a probability of 0.1%.



| LTE Band | BW(MHz) | Channel Level | Channel | Frequency (MHz) | Modulation | Peak to Average Radio(dB) | Verdict |
|----------|---------|---------------|---------|-----------------|------------|---------------------------|---------|
| B2       | 1.4     | Low           | 18607   | 1850.7          | QPSK       | 6.07                      | PASS    |
| B2       | 1.4     | Low           | 18607   | 1850.7          | 16QAM      | 6.76                      | PASS    |
| B2       | 1.4     | Low           | 18607   | 1850.7          | 64QAM      | 6.94                      | PASS    |
| B2       | 1.4     | Mid           | 18900   | 1880            | QPSK       | 6.06                      | PASS    |
| B2       | 1.4     | Mid           | 18900   | 1880            | 16QAM      | 6.75                      | PASS    |
| B2       | 1.4     | Mid           | 18900   | 1880            | 64QAM      | 6.91                      | PASS    |
| B2       | 1.4     | High          | 19193   | 1909.3          | QPSK       | 5.83                      | PASS    |
| B2       | 1.4     | High          | 19193   | 1909.3          | 16QAM      | 6.52                      | PASS    |
| B2       | 1.4     | High          | 19193   | 1909.3          | 64QAM      | 6.67                      | PASS    |
| B2       | 3       | Low           | 18615   | 1851.5          | QPSK       | 5.90                      | PASS    |
| B2       | 3       | Low           | 18615   | 1851.5          | 16QAM      | 6.74                      | PASS    |
| B2       | 3       | Low           | 18615   | 1851.5          | 64QAM      | 6.81                      | PASS    |
| B2       | 3       | Mid           | 18900   | 1880            | QPSK       | 5.93                      | PASS    |
| B2       | 3       | Mid           | 18900   | 1880            | 16QAM      | 6.74                      | PASS    |
| B2       | 3       | Mid           | 18900   | 1880            | 64QAM      | 6.84                      | PASS    |
| B2       | 3       | High          | 19185   | 1908.5          | QPSK       | 5.77                      | PASS    |
| B2       | 3       | High          | 19185   | 1908.5          | 16QAM      | 6.54                      | PASS    |
| B2       | 3       | High          | 19185   | 1908.5          | 64QAM      | 6.63                      | PASS    |
| B2       | 5       | Low           | 18625   | 1852.5          | QPSK       | 5.85                      | PASS    |
| B2       | 5       | Low           | 18625   | 1852.5          | 16QAM      | 6.54                      | PASS    |
| B2       | 5       | Low           | 18625   | 1852.5          | 64QAM      | 6.76                      | PASS    |
| B2       | 5       | Mid           | 18900   | 1880            | QPSK       | 5.89                      | PASS    |
| B2       | 5       | Mid           | 18900   | 1880            | 16QAM      | 6.51                      | PASS    |
| B2       | 5       | Mid           | 18900   | 1880            | 64QAM      | 6.79                      | PASS    |
| B2       | 5       | High          | 19175   | 1907.5          | QPSK       | 5.79                      | PASS    |
| B2       | 5       | High          | 19175   | 1907.5          | 16QAM      | 6.42                      | PASS    |
| B2       | 5       | High          | 19175   | 1907.5          | 64QAM      | 6.60                      | PASS    |
| B2       | 10      | Low           | 18650   | 1855            | QPSK       | 5.84                      | PASS    |
| B2       | 10      | Low           | 18650   | 1855            | 16QAM      | 6.47                      | PASS    |
| B2       | 10      | Low           | 18650   | 1855            | 64QAM      | 6.69                      | PASS    |
| B2       | 10      | Mid           | 18900   | 1880            | QPSK       | 5.80                      | PASS    |
| B2       | 10      | Mid           | 18900   | 1880            | 16QAM      | 6.42                      | PASS    |
| B2       | 10      | Mid           | 18900   | 1880            | 64QAM      | 6.69                      | PASS    |
| B2       | 10      | High          | 19150   | 1905            | QPSK       | 5.61                      | PASS    |
| B2       | 10      | High          | 19150   | 1905            | 16QAM      | 6.32                      | PASS    |





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|    |     |      |       |        |       |      |      |
|----|-----|------|-------|--------|-------|------|------|
| B2 | 10  | High | 19150 | 1905   | 64QAM | 6.54 | PASS |
| B2 | 15  | Low  | 18675 | 1857.5 | QPSK  | 5.78 | PASS |
| B2 | 15  | Low  | 18675 | 1857.5 | 16QAM | 6.47 | PASS |
| B2 | 15  | Low  | 18675 | 1857.5 | 64QAM | 6.71 | PASS |
| B2 | 15  | Mid  | 18900 | 1880   | QPSK  | 5.78 | PASS |
| B2 | 15  | Mid  | 18900 | 1880   | 16QAM | 6.38 | PASS |
| B2 | 15  | Mid  | 18900 | 1880   | 64QAM | 6.69 | PASS |
| B2 | 15  | High | 19125 | 1902.5 | QPSK  | 5.49 | PASS |
| B2 | 15  | High | 19125 | 1902.5 | 16QAM | 6.21 | PASS |
| B2 | 15  | High | 19125 | 1902.5 | 64QAM | 6.49 | PASS |
| B2 | 20  | Low  | 18700 | 1860   | QPSK  | 5.75 | PASS |
| B2 | 20  | Low  | 18700 | 1860   | 16QAM | 6.51 | PASS |
| B2 | 20  | Low  | 18700 | 1860   | 64QAM | 6.68 | PASS |
| B2 | 20  | Mid  | 18900 | 1880   | QPSK  | 5.63 | PASS |
| B2 | 20  | Mid  | 18900 | 1880   | 16QAM | 6.44 | PASS |
| B2 | 20  | Mid  | 18900 | 1880   | 64QAM | 6.66 | PASS |
| B2 | 20  | High | 19100 | 1900   | QPSK  | 5.41 | PASS |
| B2 | 20  | High | 19100 | 1900   | 16QAM | 6.29 | PASS |
| B2 | 20  | High | 19100 | 1900   | 64QAM | 6.51 | PASS |
| B4 | 1.4 | Low  | 19957 | 1710.7 | QPSK  | 5.81 | PASS |
| B4 | 1.4 | Low  | 19957 | 1710.7 | 16QAM | 6.62 | PASS |
| B4 | 1.4 | Low  | 19957 | 1710.7 | 64QAM | 6.91 | PASS |
| B4 | 1.4 | Mid  | 20175 | 1732.5 | QPSK  | 5.68 | PASS |
| B4 | 1.4 | Mid  | 20175 | 1732.5 | 16QAM | 6.46 | PASS |
| B4 | 1.4 | Mid  | 20175 | 1732.5 | 64QAM | 6.81 | PASS |
| B4 | 1.4 | High | 20393 | 1754.3 | QPSK  | 5.66 | PASS |
| B4 | 1.4 | High | 20393 | 1754.3 | 16QAM | 6.46 | PASS |
| B4 | 1.4 | High | 20393 | 1754.3 | 64QAM | 6.76 | PASS |
| B4 | 3   | Low  | 19965 | 1711.5 | QPSK  | 5.80 | PASS |
| B4 | 3   | Low  | 19965 | 1711.5 | 16QAM | 6.63 | PASS |
| B4 | 3   | Low  | 19965 | 1711.5 | 64QAM | 6.81 | PASS |
| B4 | 3   | Mid  | 20175 | 1732.5 | QPSK  | 5.68 | PASS |
| B4 | 3   | Mid  | 20175 | 1732.5 | 16QAM | 6.59 | PASS |
| B4 | 3   | Mid  | 20175 | 1732.5 | 64QAM | 6.69 | PASS |
| B4 | 3   | High | 20385 | 1753.5 | QPSK  | 5.67 | PASS |
| B4 | 3   | High | 20385 | 1753.5 | 16QAM | 6.51 | PASS |
| B4 | 3   | High | 20385 | 1753.5 | 64QAM | 6.69 | PASS |
| B4 | 5   | Low  | 19975 | 1712.5 | QPSK  | 5.77 | PASS |



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|    |    |      |       |        |       |      |      |
|----|----|------|-------|--------|-------|------|------|
| B4 | 5  | Low  | 19975 | 1712.5 | 16QAM | 6.34 | PASS |
| B4 | 5  | Low  | 19975 | 1712.5 | 64QAM | 6.59 | PASS |
| B4 | 5  | Mid  | 20175 | 1732.5 | QPSK  | 5.68 | PASS |
| B4 | 5  | Mid  | 20175 | 1732.5 | 16QAM | 6.40 | PASS |
| B4 | 5  | Mid  | 20175 | 1732.5 | 64QAM | 6.64 | PASS |
| B4 | 5  | High | 20375 | 1752.5 | QPSK  | 5.73 | PASS |
| B4 | 5  | High | 20375 | 1752.5 | 16QAM | 6.45 | PASS |
| B4 | 5  | High | 20375 | 1752.5 | 64QAM | 6.69 | PASS |
| B4 | 10 | Low  | 20000 | 1715   | QPSK  | 5.66 | PASS |
| B4 | 10 | Low  | 20000 | 1715   | 16QAM | 6.39 | PASS |
| B4 | 10 | Low  | 20000 | 1715   | 64QAM | 6.63 | PASS |
| B4 | 10 | Mid  | 20175 | 1732.5 | QPSK  | 5.65 | PASS |
| B4 | 10 | Mid  | 20175 | 1732.5 | 16QAM | 6.32 | PASS |
| B4 | 10 | Mid  | 20175 | 1732.5 | 64QAM | 6.57 | PASS |
| B4 | 10 | High | 20350 | 1750   | QPSK  | 5.60 | PASS |
| B4 | 10 | High | 20350 | 1750   | 16QAM | 6.29 | PASS |
| B4 | 10 | High | 20350 | 1750   | 64QAM | 6.55 | PASS |
| B4 | 15 | Low  | 20025 | 1717.5 | QPSK  | 5.60 | PASS |
| B4 | 15 | Low  | 20025 | 1717.5 | 16QAM | 6.26 | PASS |
| B4 | 15 | Low  | 20025 | 1717.5 | 64QAM | 6.61 | PASS |
| B4 | 15 | Mid  | 20175 | 1732.5 | QPSK  | 5.52 | PASS |
| B4 | 15 | Mid  | 20175 | 1732.5 | 16QAM | 6.28 | PASS |
| B4 | 15 | Mid  | 20175 | 1732.5 | 64QAM | 6.60 | PASS |
| B4 | 15 | High | 20325 | 1747.5 | QPSK  | 5.44 | PASS |
| B4 | 15 | High | 20325 | 1747.5 | 16QAM | 6.28 | PASS |
| B4 | 15 | High | 20325 | 1747.5 | 64QAM | 6.59 | PASS |
| B4 | 20 | Low  | 20050 | 1720   | QPSK  | 5.52 | PASS |
| B4 | 20 | Low  | 20050 | 1720   | 16QAM | 6.32 | PASS |
| B4 | 20 | Low  | 20050 | 1720   | 64QAM | 6.61 | PASS |
| B4 | 20 | Mid  | 20175 | 1732.5 | QPSK  | 5.49 | PASS |
| B4 | 20 | Mid  | 20175 | 1732.5 | 16QAM | 6.27 | PASS |
| B4 | 20 | Mid  | 20175 | 1732.5 | 64QAM | 6.56 | PASS |
| B4 | 20 | High | 20300 | 1745   | QPSK  | 5.37 | PASS |
| B4 | 20 | High | 20300 | 1745   | 16QAM | 6.23 | PASS |
| B4 | 20 | High | 20300 | 1745   | 64QAM | 6.53 | PASS |



| LTE Band | BW(MHz) | Channel Level | Channel | Frequency (MHz) | Modulation | Peak to Average Radio(dB) | Verdict |
|----------|---------|---------------|---------|-----------------|------------|---------------------------|---------|
| B66      | 1.4     | Low           | 131979  | 1710.7          | QPSK       | 5.83                      | PASS    |
| B66      | 1.4     | Low           | 131979  | 1710.7          | 16QAM      | 6.62                      | PASS    |
| B66      | 1.4     | Low           | 131979  | 1710.7          | 64QAM      | 6.89                      | PASS    |
| B66      | 1.4     | Mid           | 132322  | 1745            | QPSK       | 5.55                      | PASS    |
| B66      | 1.4     | Mid           | 132322  | 1745            | 16QAM      | 6.48                      | PASS    |
| B66      | 1.4     | Mid           | 132322  | 1745            | 64QAM      | 6.80                      | PASS    |
| B66      | 1.4     | High          | 132665  | 1779.3          | QPSK       | 5.63                      | PASS    |
| B66      | 1.4     | High          | 132665  | 1779.3          | 16QAM      | 6.55                      | PASS    |
| B66      | 1.4     | High          | 132665  | 1779.3          | 64QAM      | 6.78                      | PASS    |
| B66      | 3       | Low           | 131987  | 1711.5          | QPSK       | 5.82                      | PASS    |
| B66      | 3       | Low           | 131987  | 1711.5          | 16QAM      | 6.67                      | PASS    |
| B66      | 3       | Low           | 131987  | 1711.5          | 64QAM      | 6.85                      | PASS    |
| B66      | 3       | Mid           | 132322  | 1745            | QPSK       | 5.63                      | PASS    |
| B66      | 3       | Mid           | 132322  | 1745            | 16QAM      | 6.49                      | PASS    |
| B66      | 3       | Mid           | 132322  | 1745            | 64QAM      | 6.76                      | PASS    |
| B66      | 3       | High          | 132657  | 1778.5          | QPSK       | 5.65                      | PASS    |
| B66      | 3       | High          | 132657  | 1778.5          | 16QAM      | 6.55                      | PASS    |
| B66      | 3       | High          | 132657  | 1778.5          | 64QAM      | 6.72                      | PASS    |
| B66      | 5       | Low           | 131997  | 1712.5          | QPSK       | 5.74                      | PASS    |
| B66      | 5       | Low           | 131997  | 1712.5          | 16QAM      | 6.51                      | PASS    |
| B66      | 5       | Low           | 131997  | 1712.5          | 64QAM      | 6.78                      | PASS    |
| B66      | 5       | Mid           | 132322  | 1745            | QPSK       | 5.62                      | PASS    |
| B66      | 5       | Mid           | 132322  | 1745            | 16QAM      | 6.41                      | PASS    |
| B66      | 5       | Mid           | 132322  | 1745            | 64QAM      | 6.62                      | PASS    |
| B66      | 5       | High          | 132647  | 1777.5          | QPSK       | 5.82                      | PASS    |
| B66      | 5       | High          | 132647  | 1777.5          | 16QAM      | 6.49                      | PASS    |
| B66      | 5       | High          | 132647  | 1777.5          | 64QAM      | 6.67                      | PASS    |
| B66      | 10      | Low           | 132022  | 1715            | QPSK       | 5.72                      | PASS    |
| B66      | 10      | Low           | 132022  | 1715            | 16QAM      | 6.41                      | PASS    |
| B66      | 10      | Low           | 132022  | 1715            | 64QAM      | 6.63                      | PASS    |
| B66      | 10      | Mid           | 132322  | 1745            | QPSK       | 5.61                      | PASS    |
| B66      | 10      | Mid           | 132322  | 1745            | 16QAM      | 6.34                      | PASS    |
| B66      | 10      | Mid           | 132322  | 1745            | 64QAM      | 6.63                      | PASS    |
| B66      | 10      | High          | 132622  | 1775            | QPSK       | 5.63                      | PASS    |
| B66      | 10      | High          | 132622  | 1775            | 16QAM      | 6.41                      | PASS    |



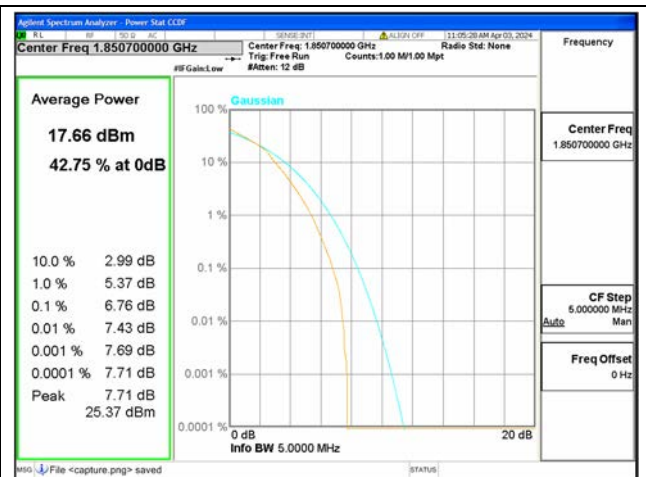


REPORT No.: SZ23120229W02

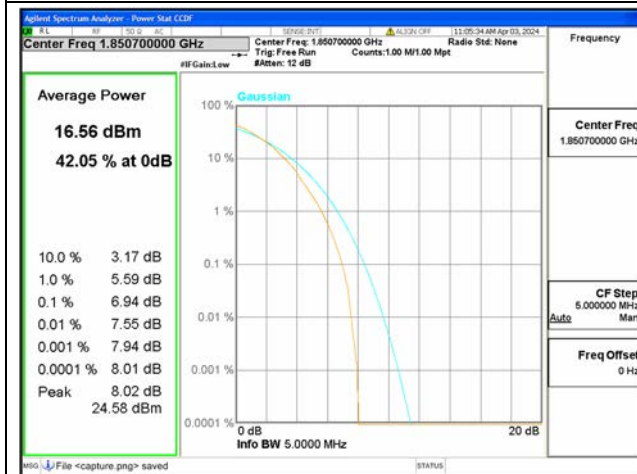
|     |    |      |        |        |       |      |      |
|-----|----|------|--------|--------|-------|------|------|
| B66 | 10 | High | 132622 | 1775   | 64QAM | 6.60 | PASS |
| B66 | 15 | Low  | 132047 | 1717.5 | QPSK  | 5.62 | PASS |
| B66 | 15 | Low  | 132047 | 1717.5 | 16QAM | 6.34 | PASS |
| B66 | 15 | Low  | 132047 | 1717.5 | 64QAM | 6.65 | PASS |
| B66 | 15 | Mid  | 132322 | 1745   | QPSK  | 5.46 | PASS |
| B66 | 15 | Mid  | 132322 | 1745   | 16QAM | 6.35 | PASS |
| B66 | 15 | Mid  | 132322 | 1745   | 64QAM | 6.57 | PASS |
| B66 | 15 | High | 132597 | 1772.5 | QPSK  | 5.59 | PASS |
| B66 | 15 | High | 132597 | 1772.5 | 16QAM | 6.24 | PASS |
| B66 | 15 | High | 132597 | 1772.5 | 64QAM | 6.61 | PASS |
| B66 | 20 | Low  | 132072 | 1720   | QPSK  | 5.51 | PASS |
| B66 | 20 | Low  | 132072 | 1720   | 16QAM | 6.33 | PASS |
| B66 | 20 | Low  | 132072 | 1720   | 64QAM | 6.63 | PASS |
| B66 | 20 | Mid  | 132322 | 1745   | QPSK  | 5.44 | PASS |
| B66 | 20 | Mid  | 132322 | 1745   | 16QAM | 6.25 | PASS |
| B66 | 20 | Mid  | 132322 | 1745   | 64QAM | 6.56 | PASS |
| B66 | 20 | High | 132572 | 1770   | QPSK  | 5.56 | PASS |
| B66 | 20 | High | 132572 | 1770   | 16QAM | 6.38 | PASS |
| B66 | 20 | High | 132572 | 1770   | 64QAM | 6.35 | PASS |



B2 / 1.4MHz / Low CH / QPSK



B2 / 1.4MHz / Low CH / 16QAM



B2 / 1.4MHz / Low CH / 64QAM



B2 / 1.4MHz / Mid CH / QPSK



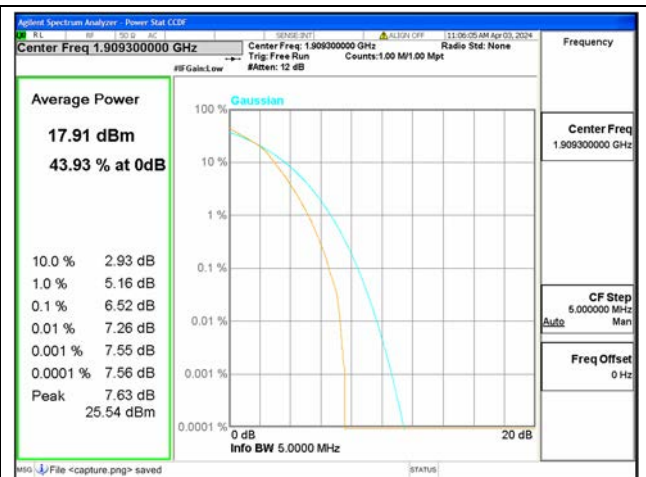
B2 / 1.4MHz / Mid CH / 16QAM



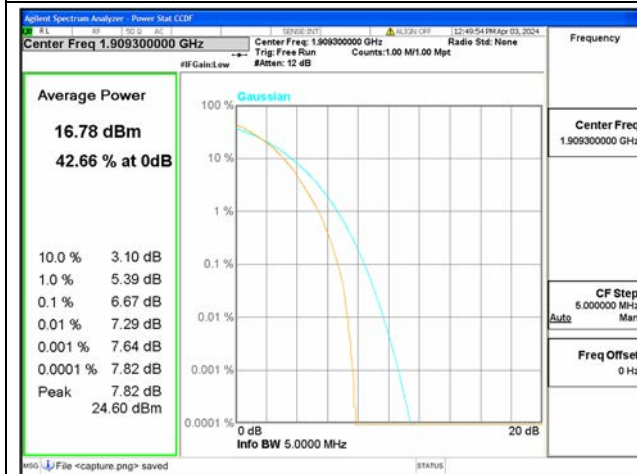
B2 / 1.4MHz / Mid CH / 64QAM



B2 / 1.4MHz / High CH / QPSK



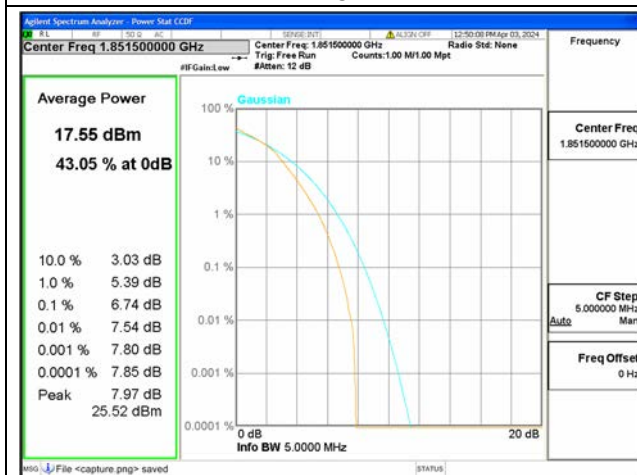
B2 / 1.4MHz / High CH / 16QAM



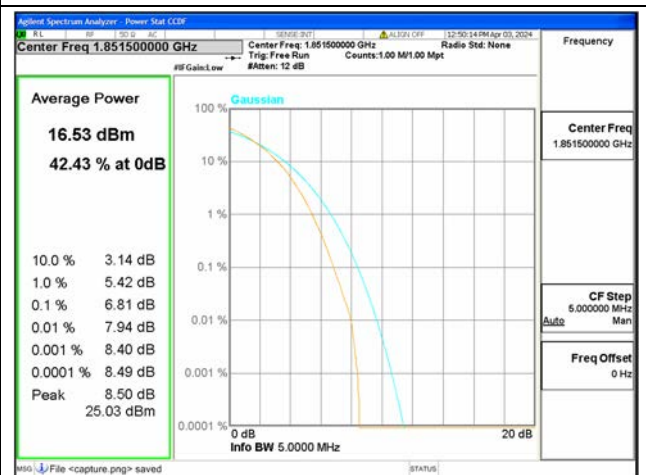
B2 / 1.4MHz / High CH / 64QAM



B2 / 3MHz / Low CH / QPSK



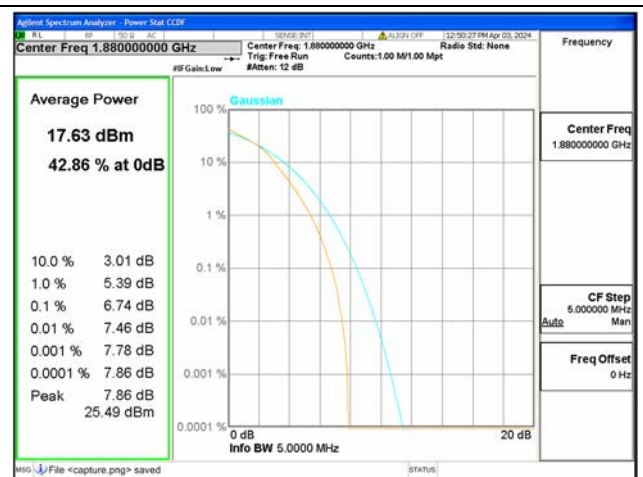
B2 / 3MHz / Low CH / 16QAM



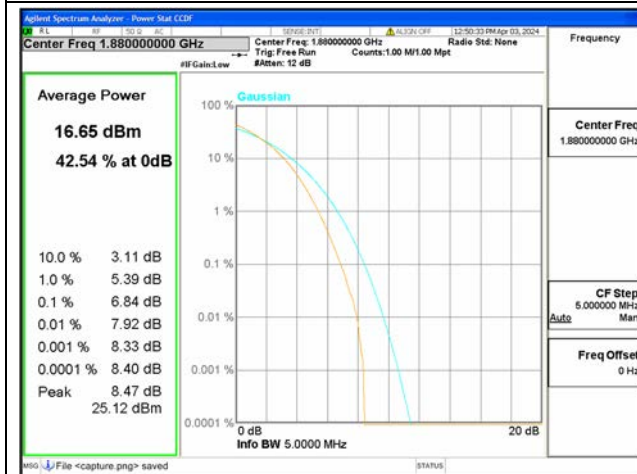
B2 / 3MHz / Low CH / 64QAM



B2 / 3MHz / Mid CH / QPSK



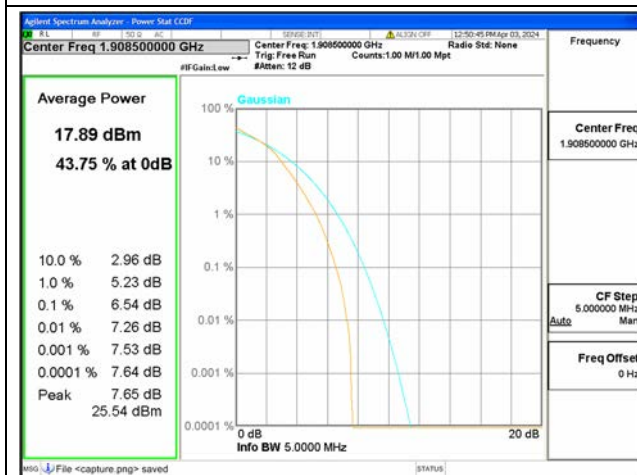
B2 / 3MHz / Mid CH / 16QAM



B2 / 3MHz / Mid CH / 64QAM



B2 / 3MHz / High CH / QPSK



B2 / 3MHz / High CH / 16QAM

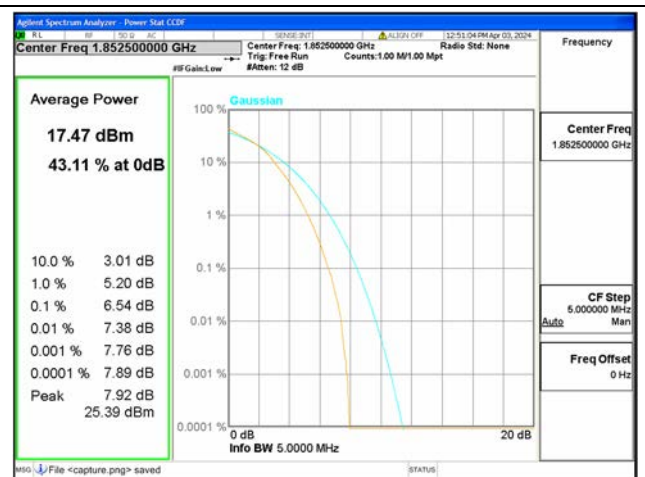


B2 / 3MHz / High CH / 64QAM





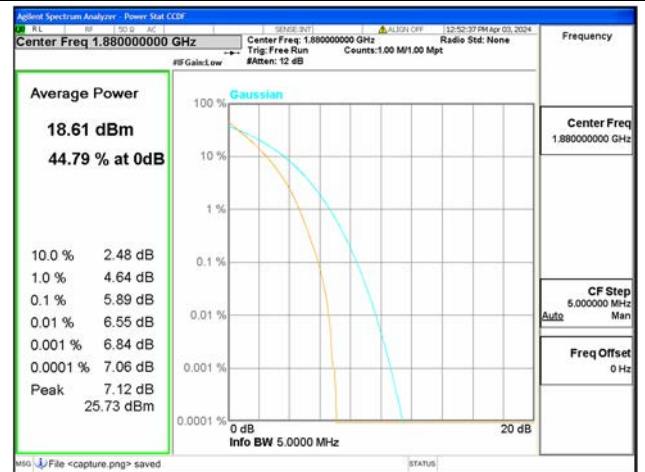
B2 / 5MHz / Low CH / QPSK



B2 / 5MHz / Low CH / 16QAM



B2 / 5MHz / Low CH / 64QAM



B2 / 5MHz / Mid CH / QPSK



B2 / 5MHz / Mid CH / 16QAM



B2 / 5MHz / Mid CH / 64QAM