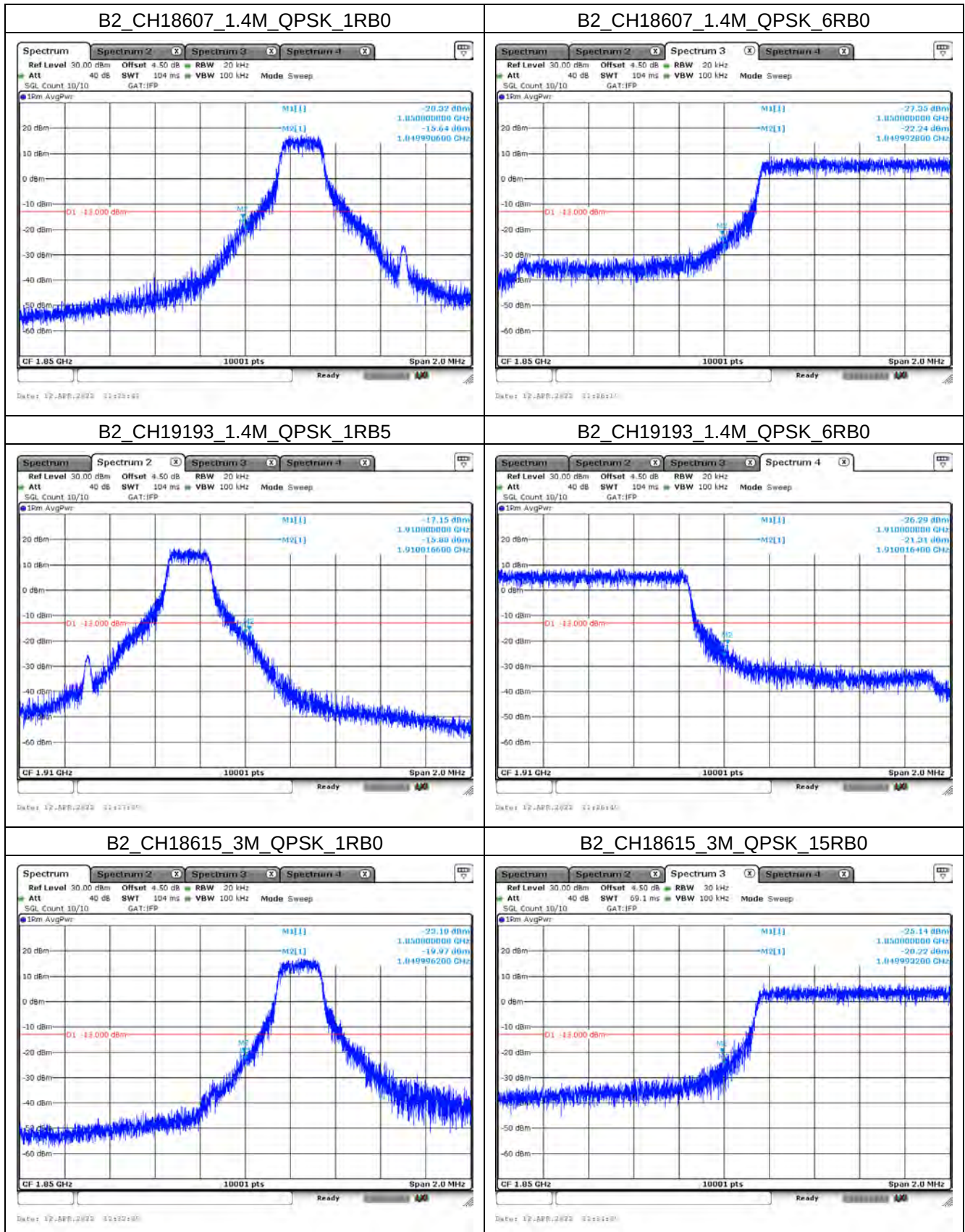
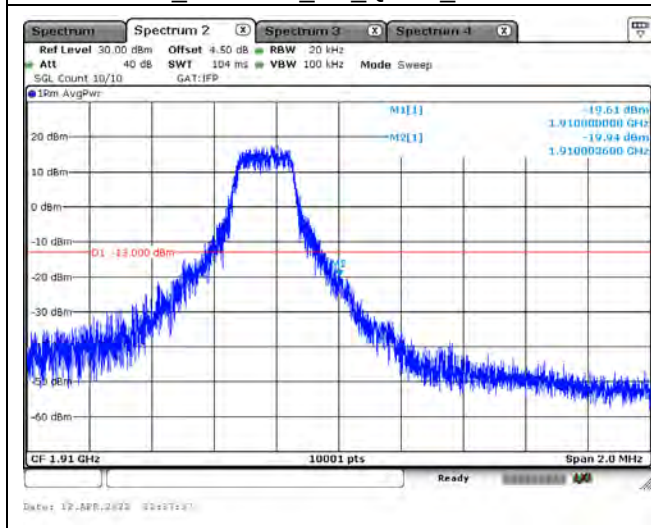


## 7.4. Test Result of Conducted Band Edge

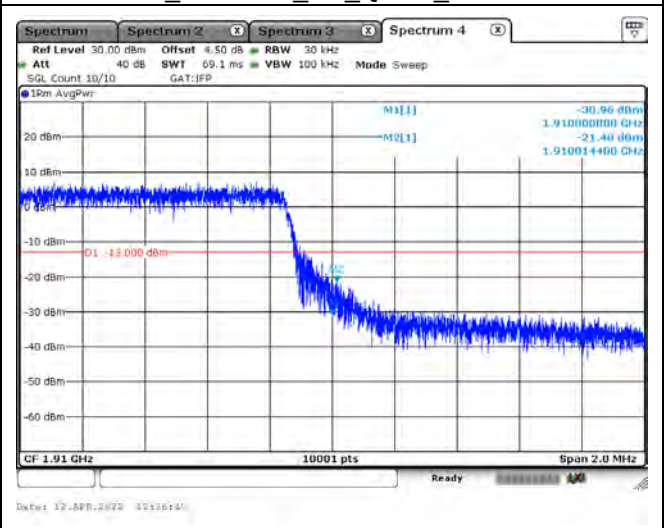
### Mode 1: LTE Band 2



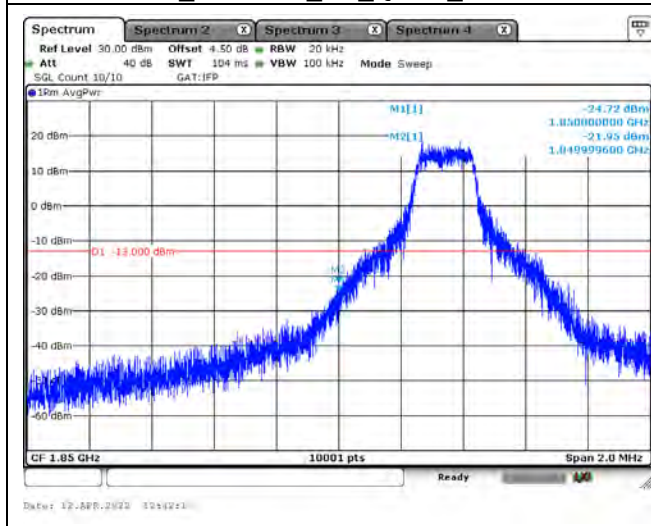
B2\_CH19185\_3M\_QPSK\_1RB14



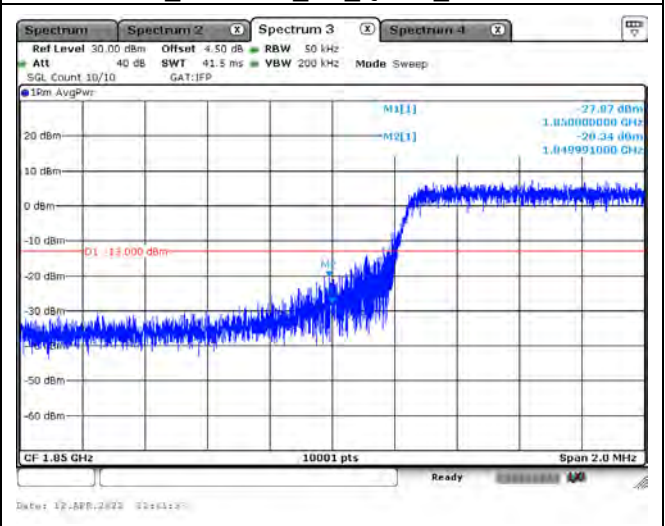
B2\_CH19185\_3M\_QPSK\_15RB0



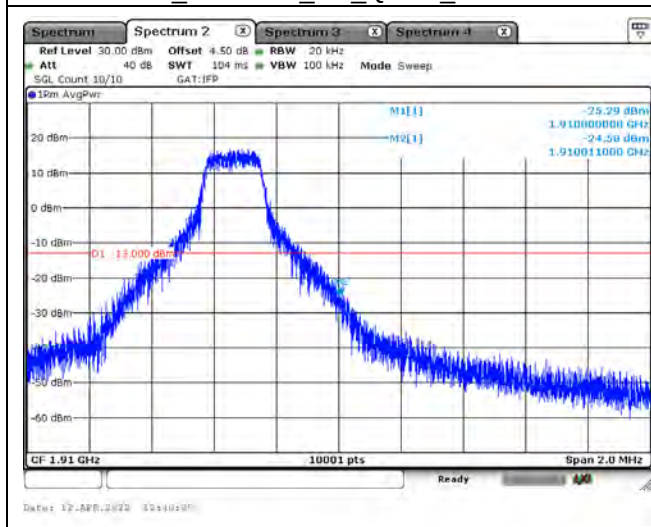
B2\_CH18625\_5M\_QPSK\_1RB0



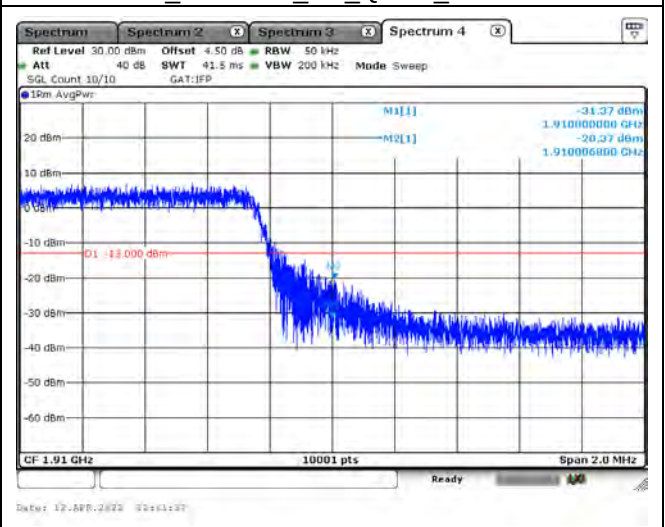
B2\_CH18625\_5M\_QPSK\_25RB0



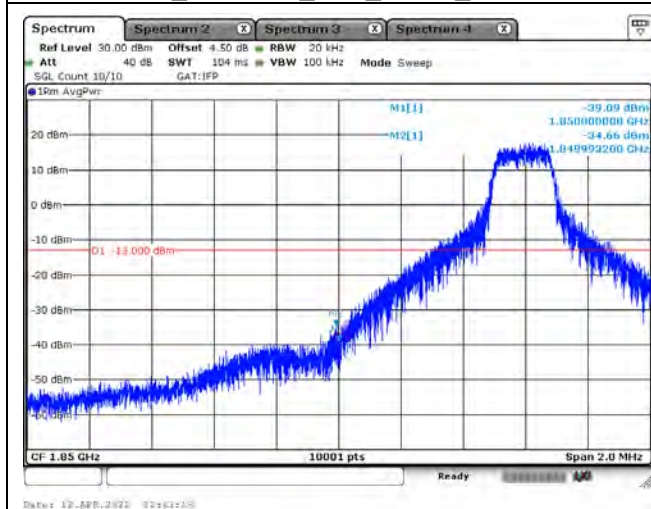
B2\_CH19175\_5M\_QPSK\_1RB24



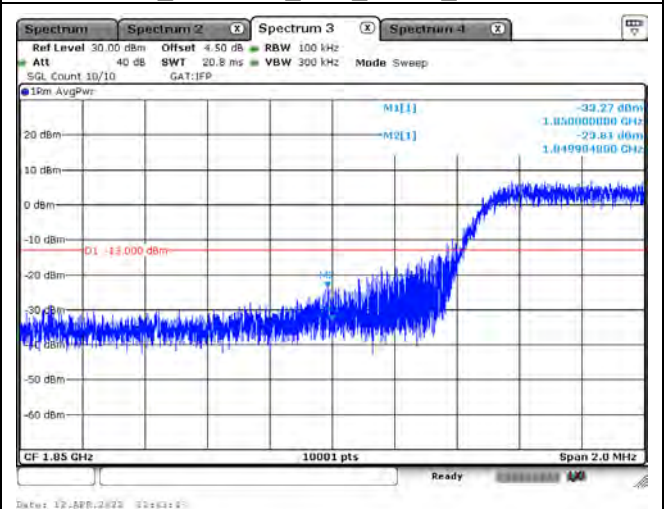
B2\_CH19175\_5M\_QPSK\_25RB0



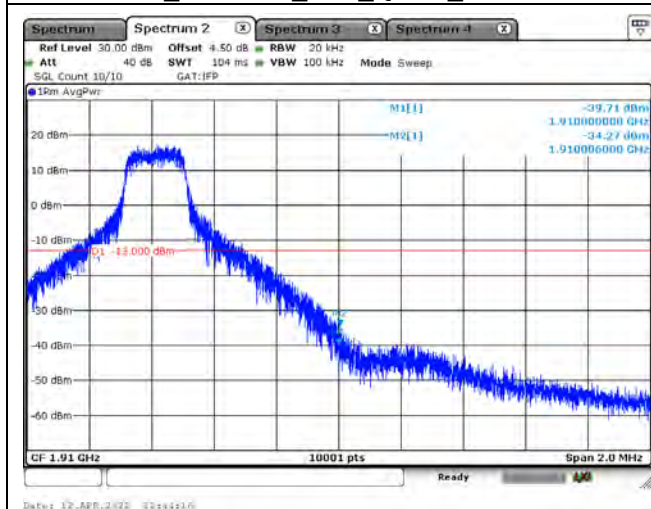
B2\_CH18650\_10M\_QPSK\_1RB0



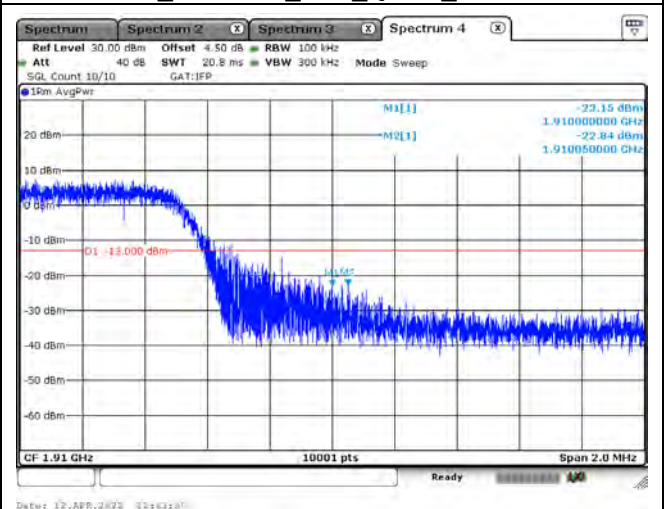
B2\_CH18650\_10M\_QPSK\_50RB0



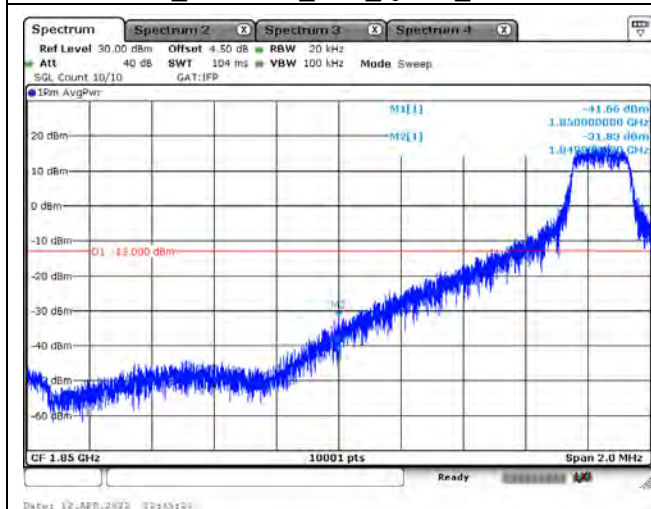
B2\_CH19150\_10M\_QPSK\_1RB49



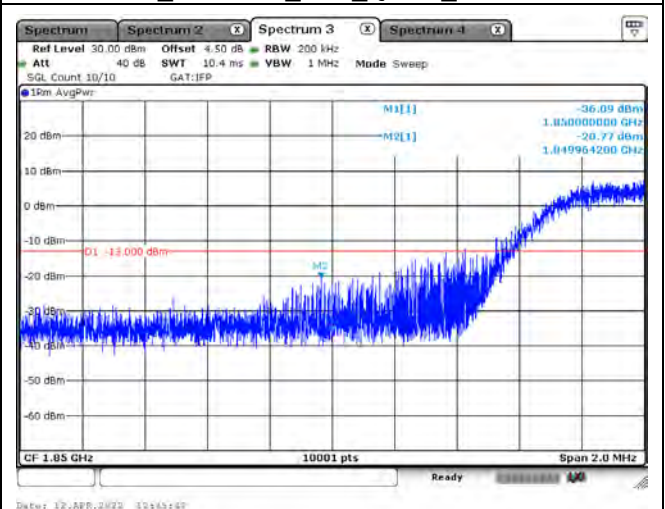
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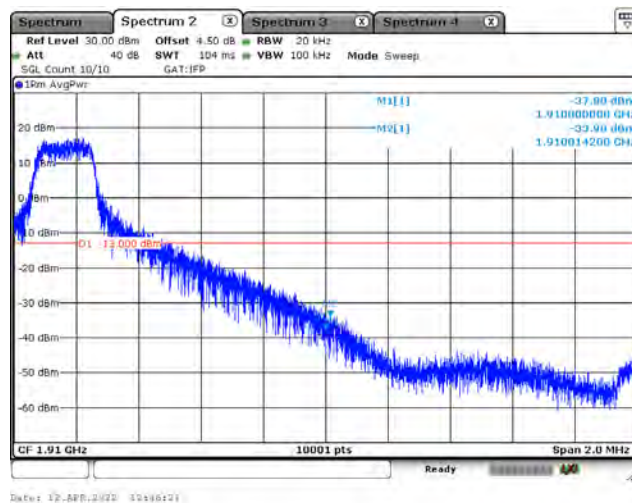
B2\_CH18675\_15M\_QPSK\_1RB0



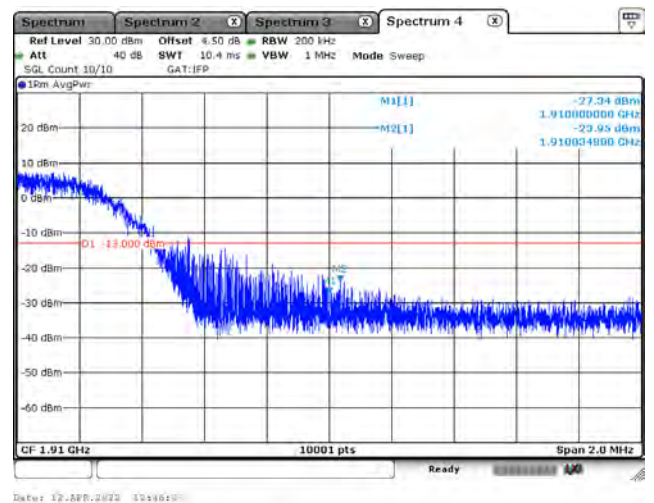
B2\_CH18675\_15M\_QPSK\_75RB0



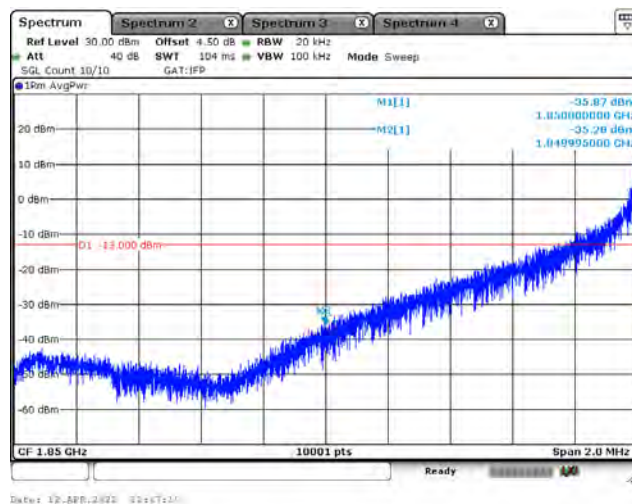
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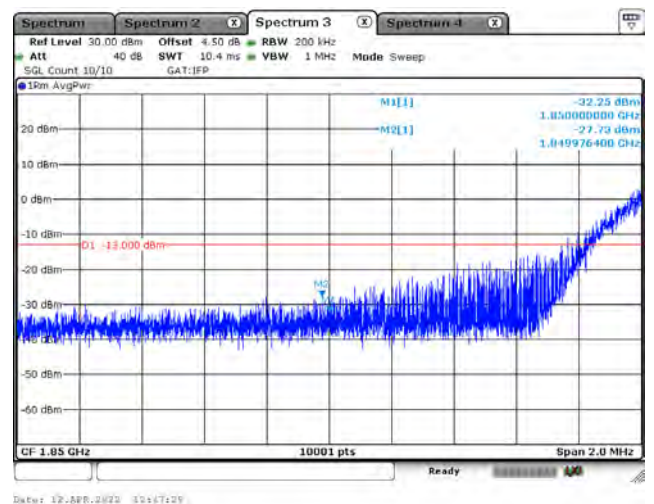
B2\_CH19125\_15M\_QPSK\_75RB0



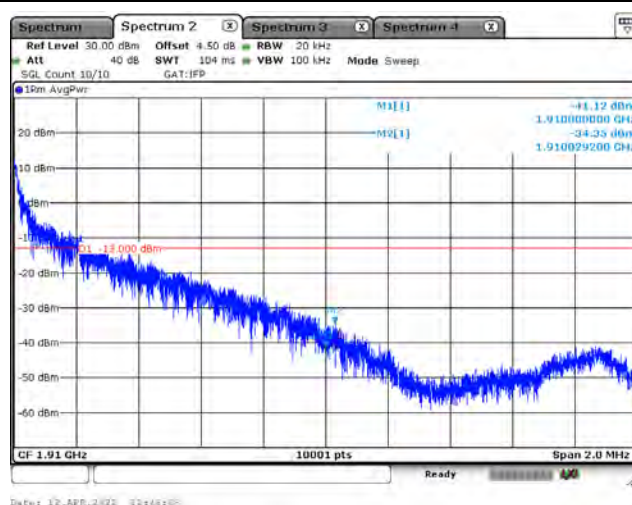
B2\_CH18700\_20M\_QPSK\_1RB0



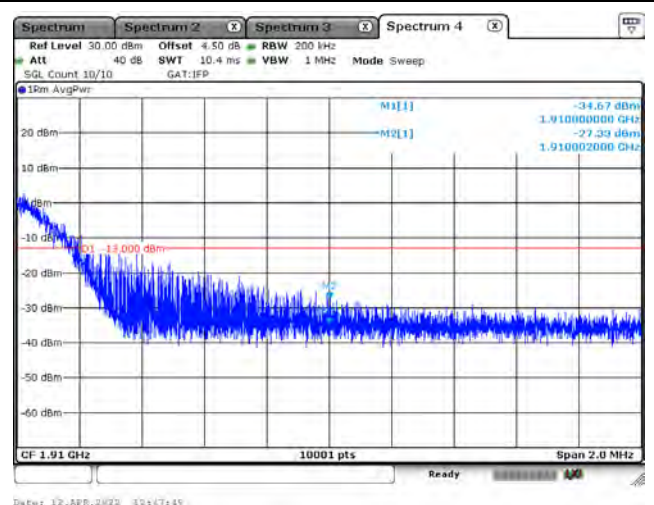
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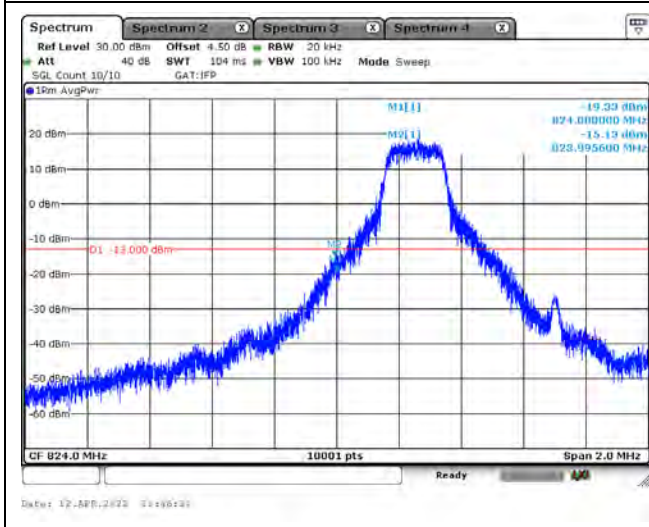
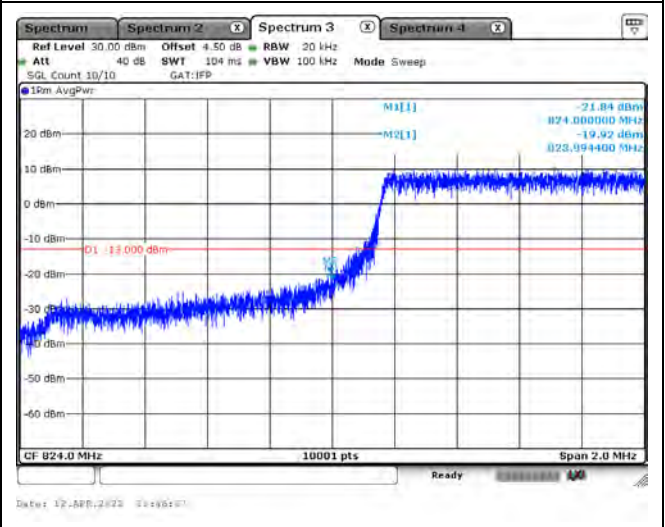
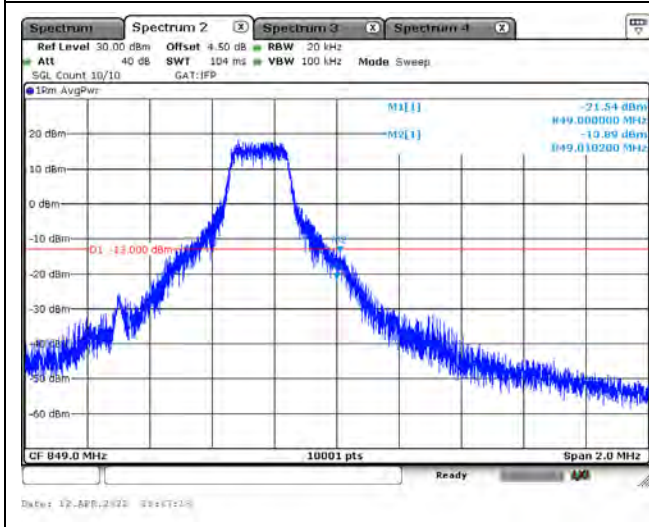
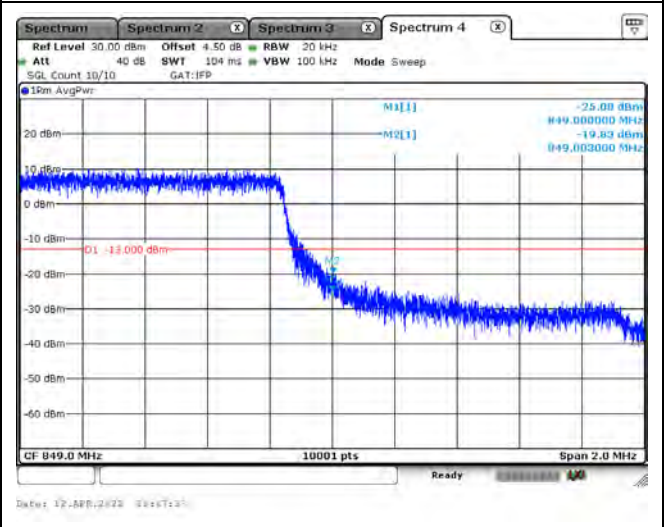
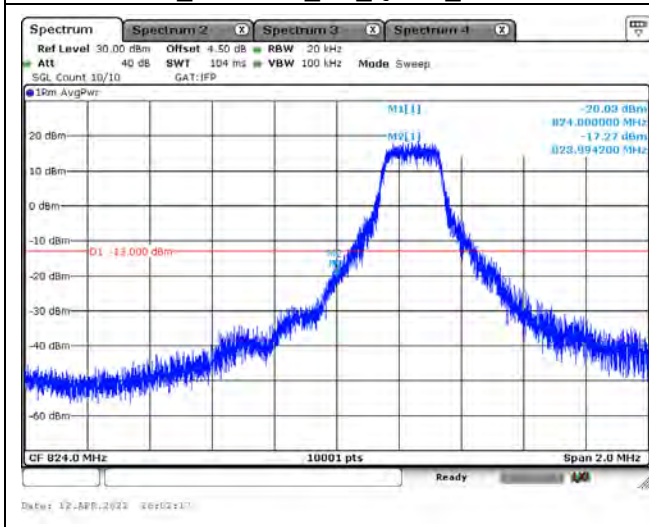
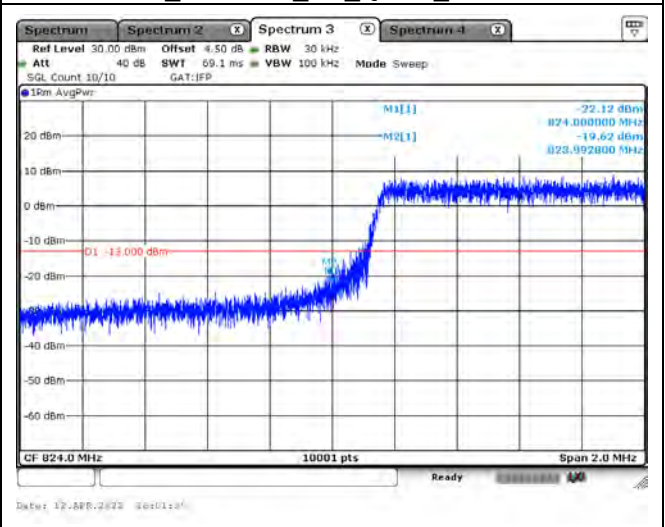


B2\_CH19100\_20M\_QPSK\_1RB99

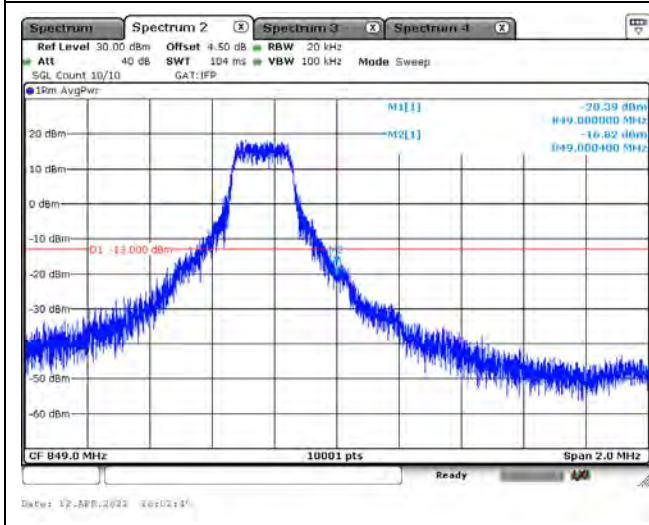


B2\_CH19100\_20M\_QPSK\_100RB0

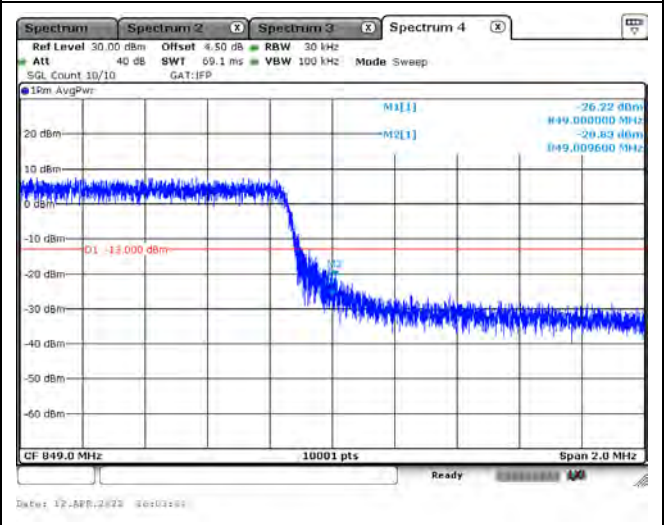


**Mode 2: LTE Band 5****B5\_CH20407\_1.4M\_QPSK\_1RB0****B5\_CH20407\_1.4M\_QPSK\_6RB0****B5\_CH20643\_1.4M\_QPSK\_1RB5****B5\_CH20643\_1.4M\_QPSK\_6RB0****B5\_CH20415\_3M\_QPSK\_1RB0****B5\_CH20415\_3M\_QPSK\_15RB0**

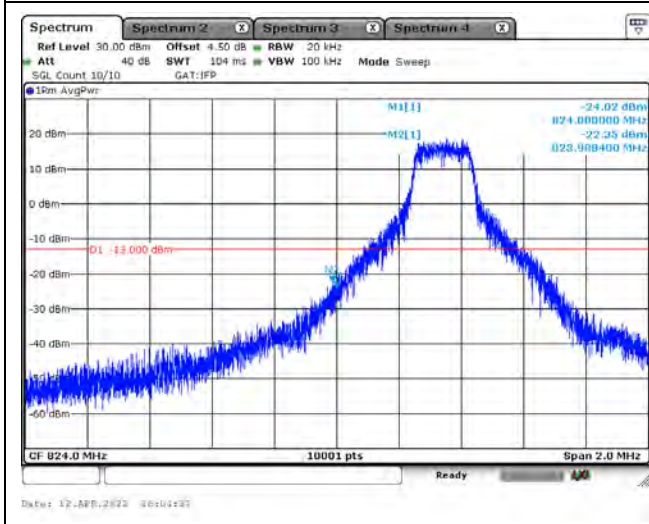
B5\_CH20635\_3M\_QPSK\_1RB14



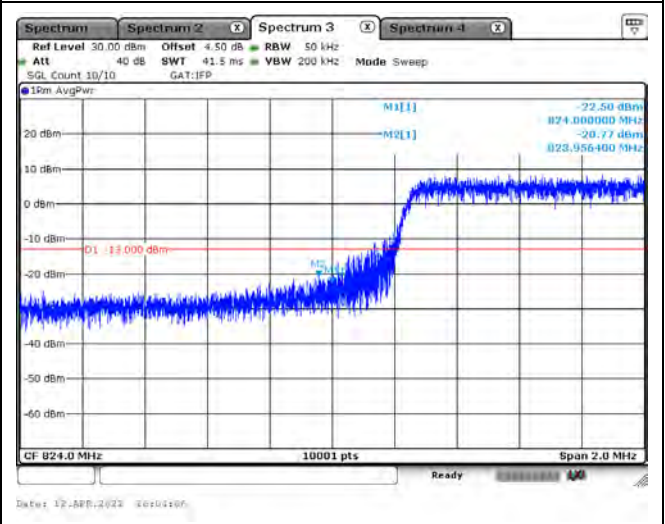
B5\_CH20635\_3M\_QPSK\_15RB0



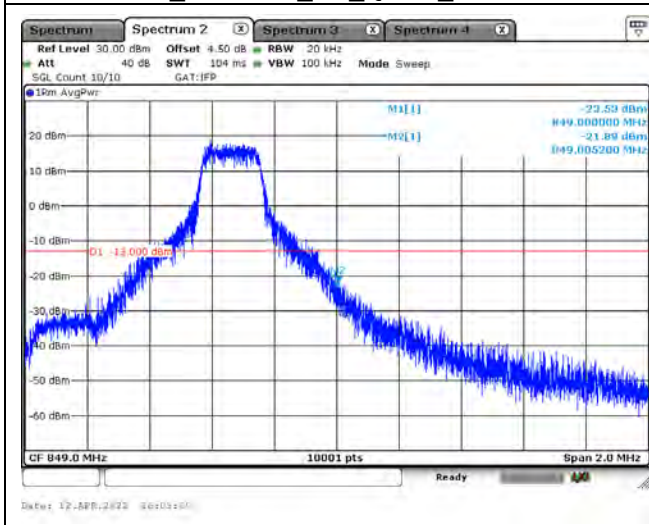
B5\_CH20425\_5M\_QPSK\_1RB0



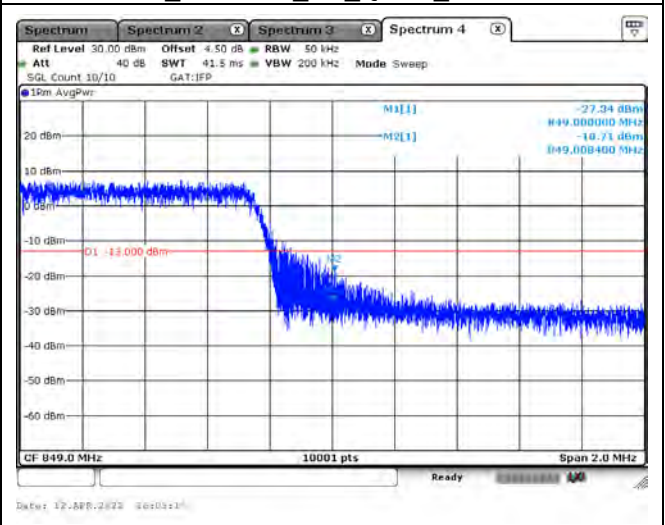
B5\_CH20425\_5M\_QPSK\_25RB0



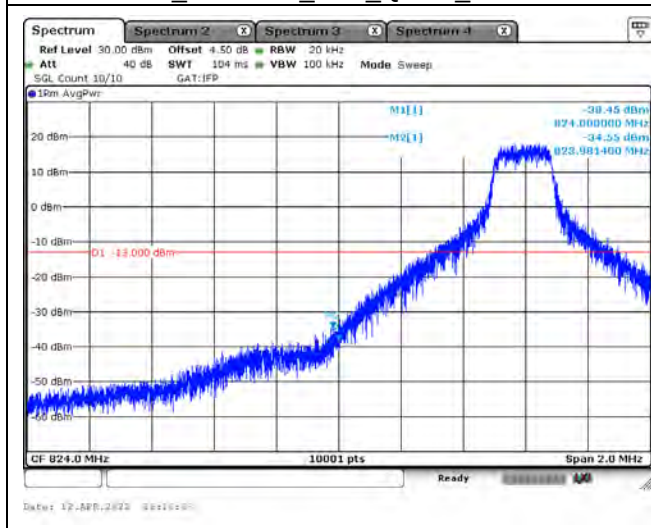
B5\_CH20625\_5M\_QPSK\_1RB24



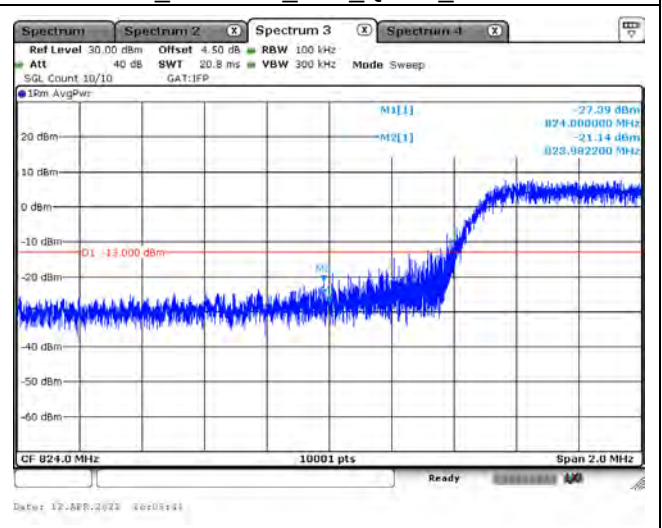
B5\_CH20625\_5M\_QPSK\_25RB0



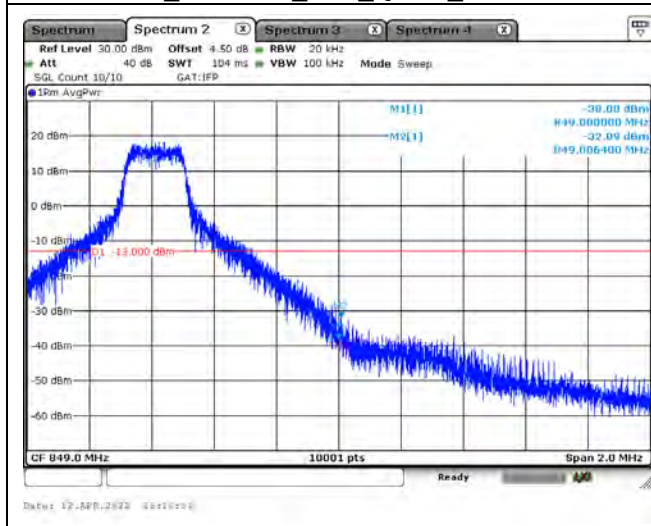
B5\_CH20450\_10M\_QPSK\_1RB0



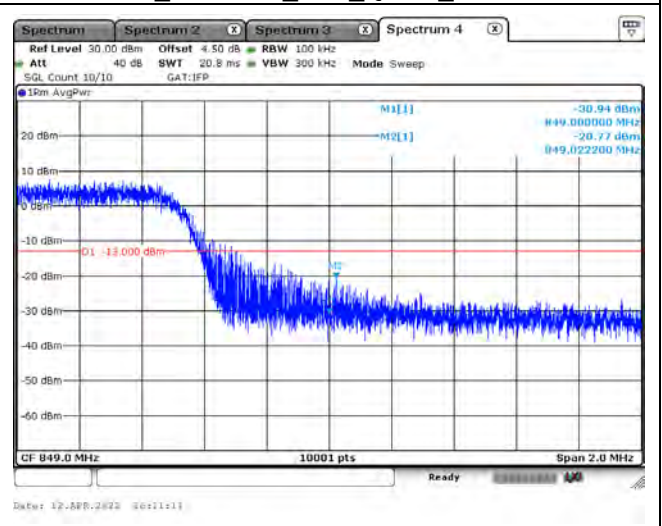
B5\_CH20450\_10M\_QPSK\_50RB0

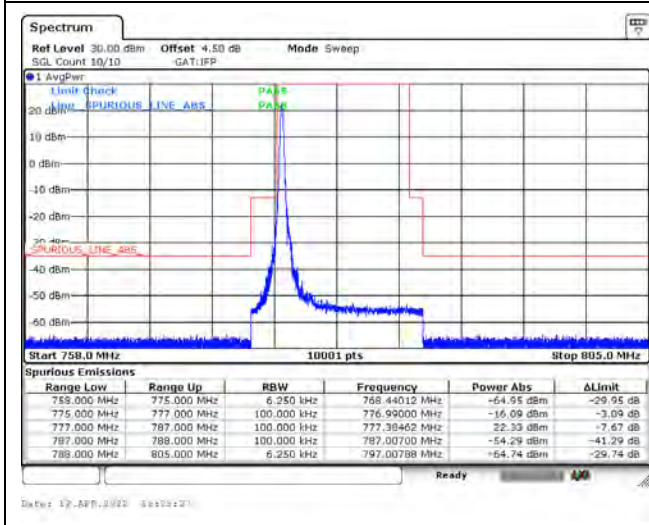
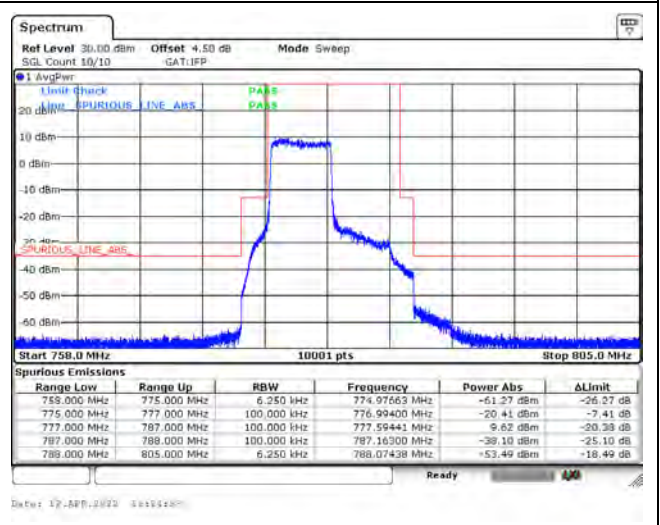
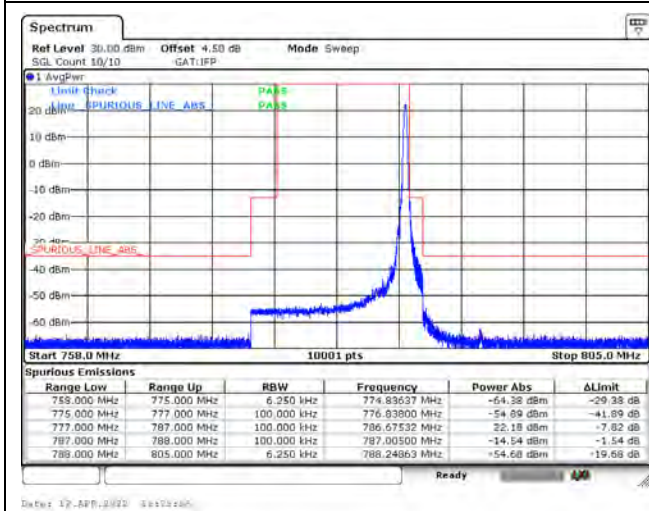
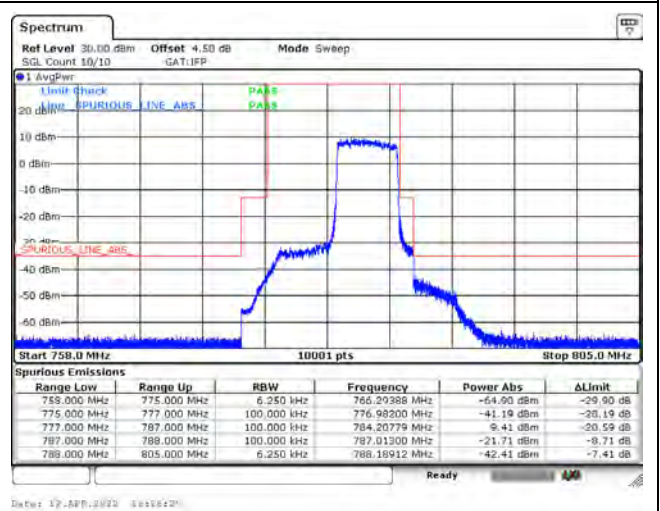
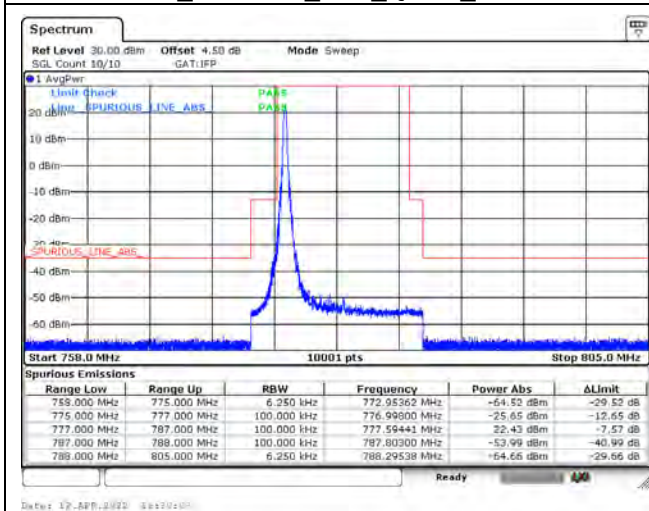
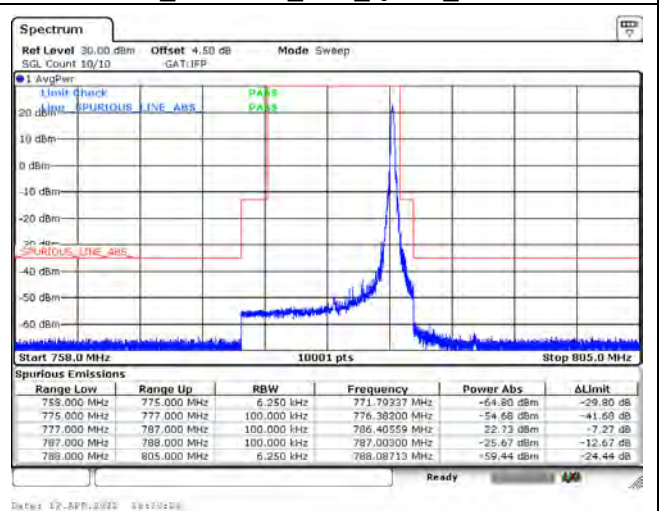


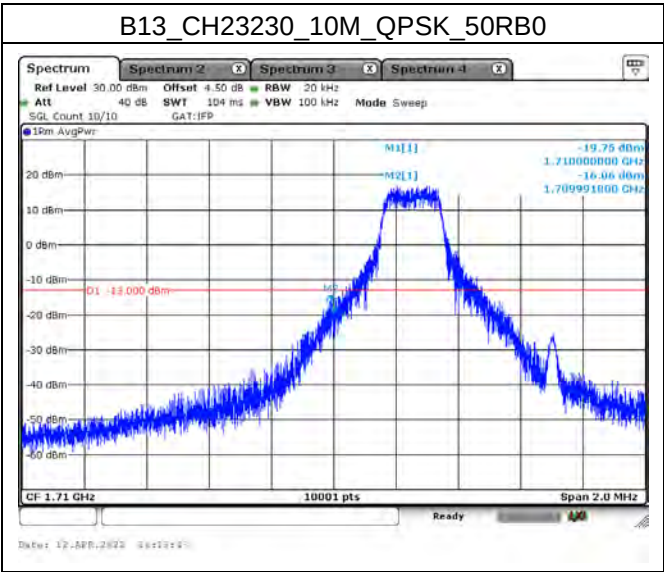
B5\_CH20600\_10M\_QPSK\_1RB49

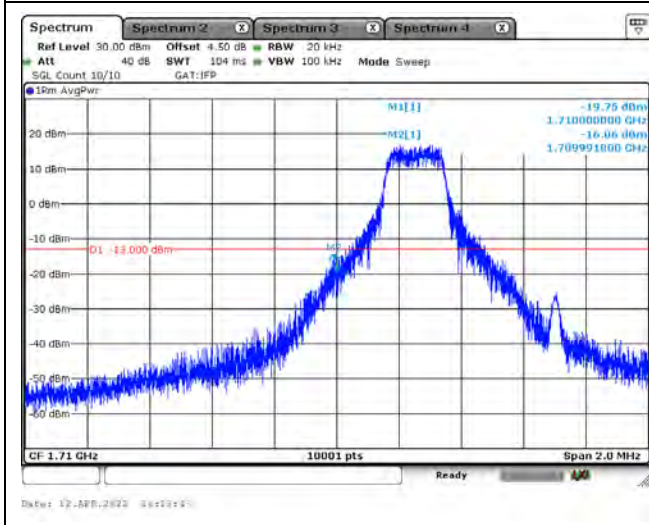
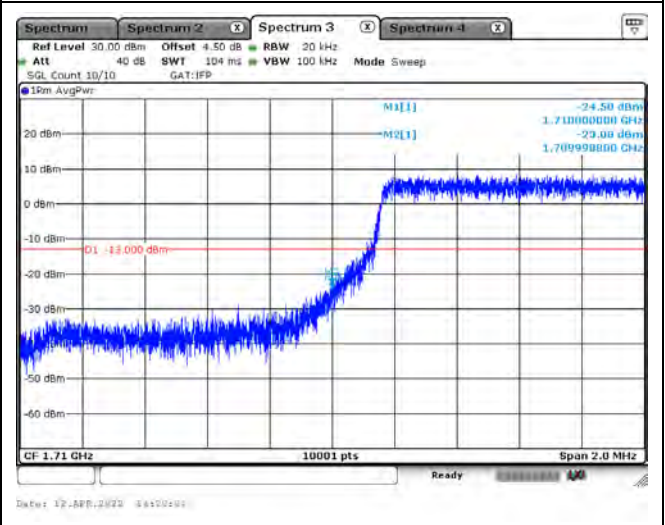
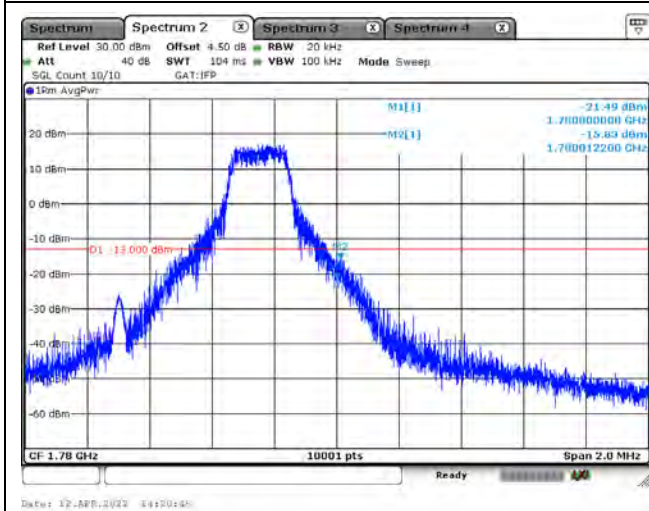
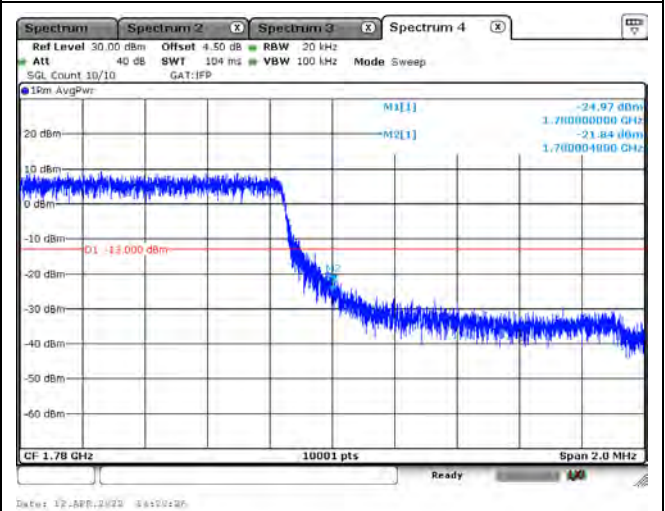
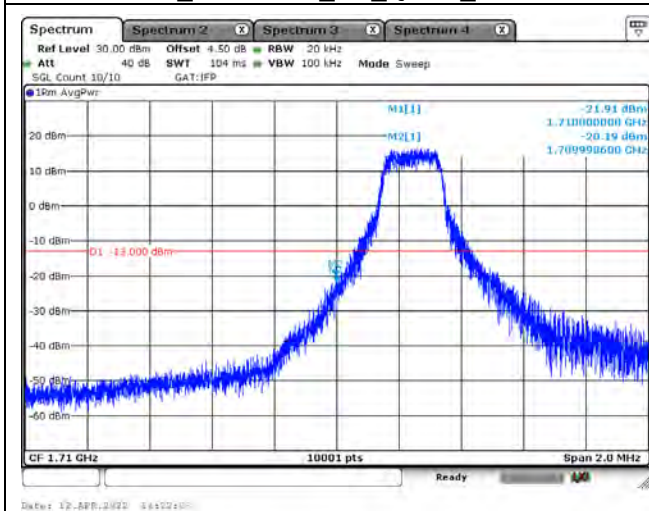
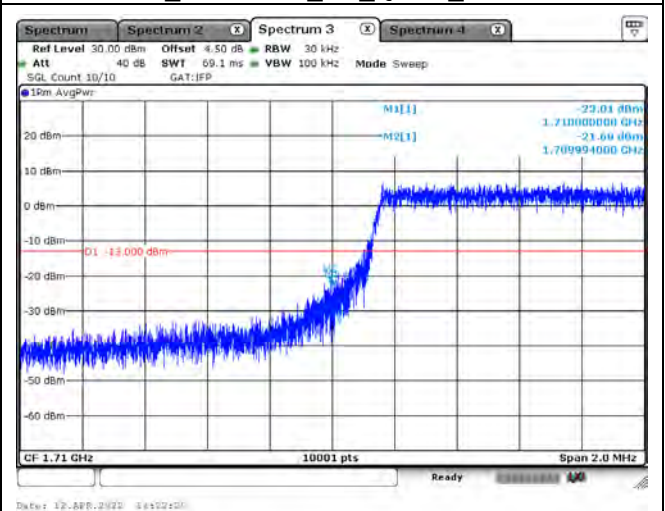


B5\_CH20600\_10M\_QPSK\_50RB0

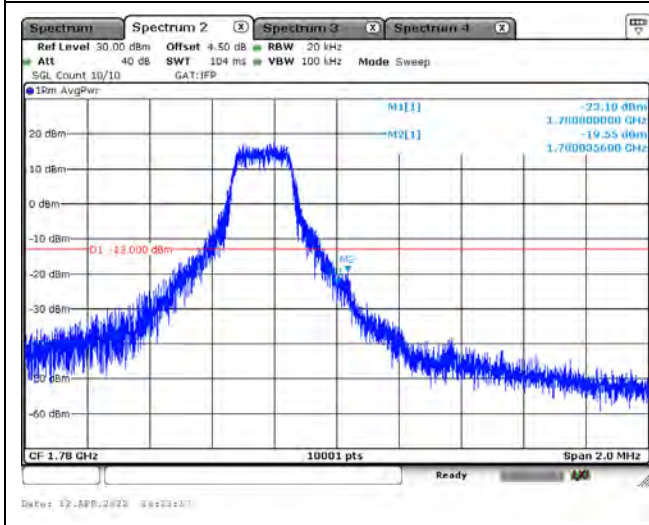


**Mode 3: LTE Band 13****B13\_CH23205\_5M\_QPSK\_1RB0****B13\_CH23205\_5M\_QPSK\_25RB0****B13\_CH23255\_5M\_QPSK\_1RB24****B13\_CH23255\_5M\_QPSK\_25RB0****B13\_CH23230\_10M\_QPSK\_1RB0****B13\_CH23230\_10M\_QPSK\_1RB49**

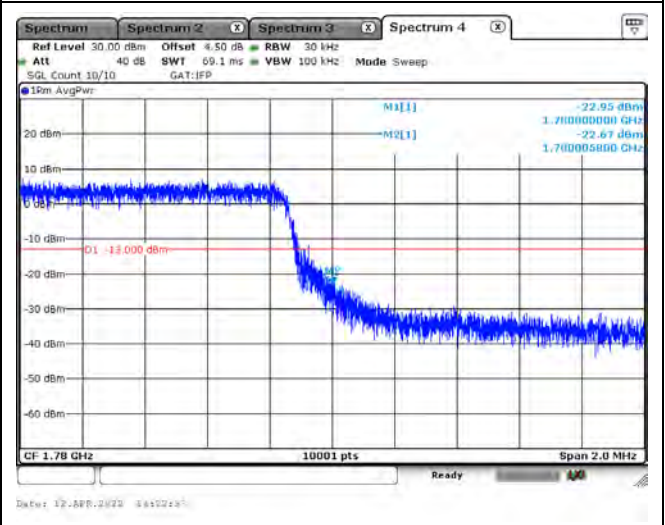


**Mode 4: LTE Band 66****B66\_CH131979\_1.4M\_QPSK\_1RB0****B66\_CH131979\_1.4M\_QPSK\_6RB0****B66\_CH132665\_1.4M\_QPSK\_1RB5****B66\_CH132665\_1.4M\_QPSK\_6RB0****B66\_CH131987\_3M\_QPSK\_1RB0****B66\_CH131987\_3M\_QPSK\_15RB0**

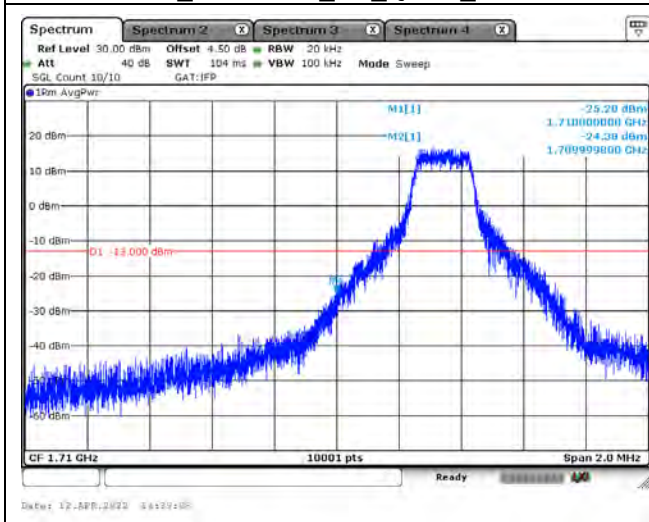
B66\_CH132657\_3M\_QPSK\_1RB14



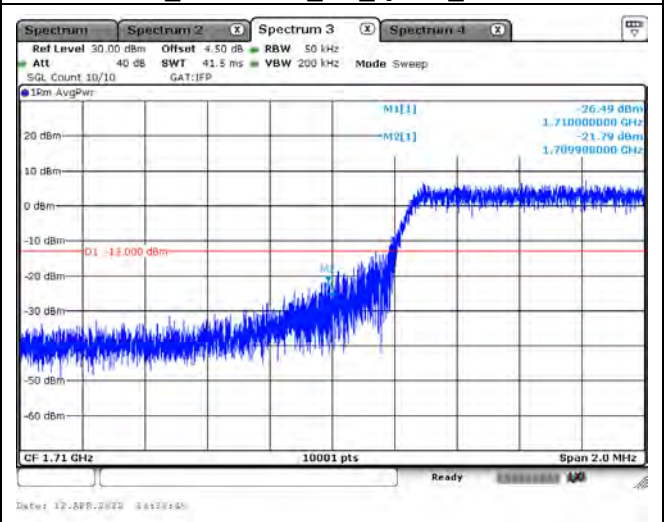
B66\_CH132657\_3M\_QPSK\_15RB0



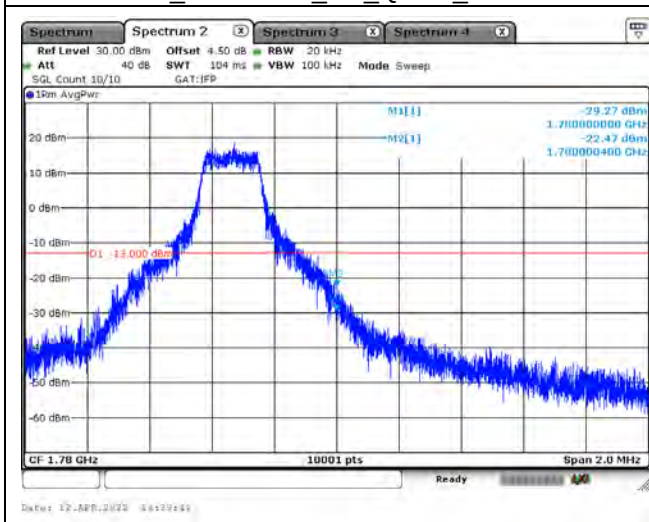
B66\_CH131997\_5M\_QPSK\_1RB0



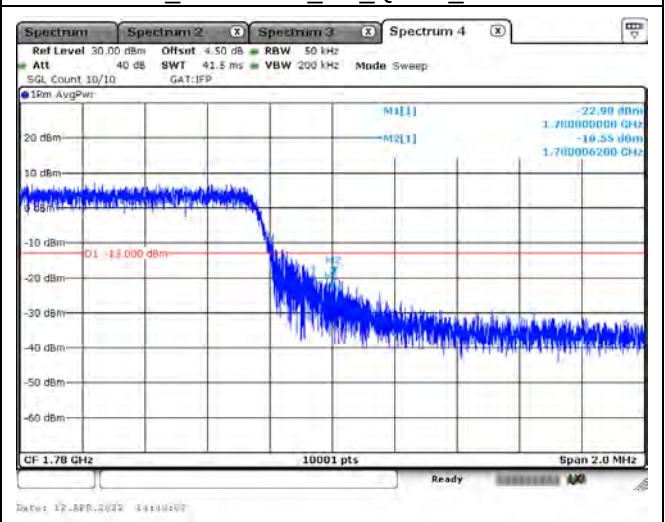
B66\_CH131997\_5M\_QPSK\_25RB0



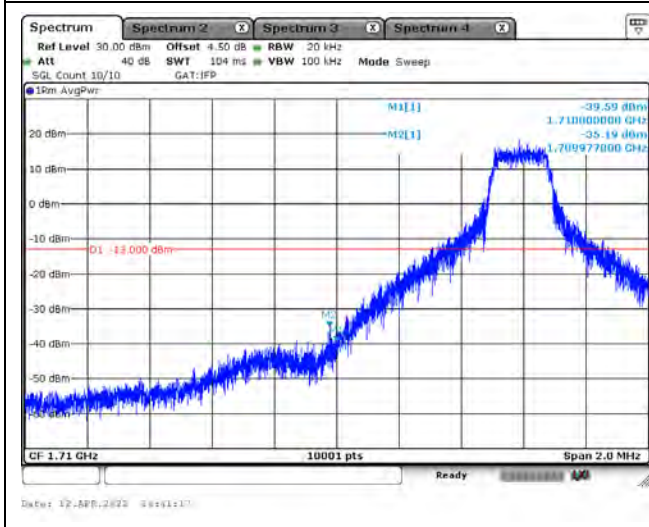
B66\_CH132647\_5M\_QPSK\_1RB24



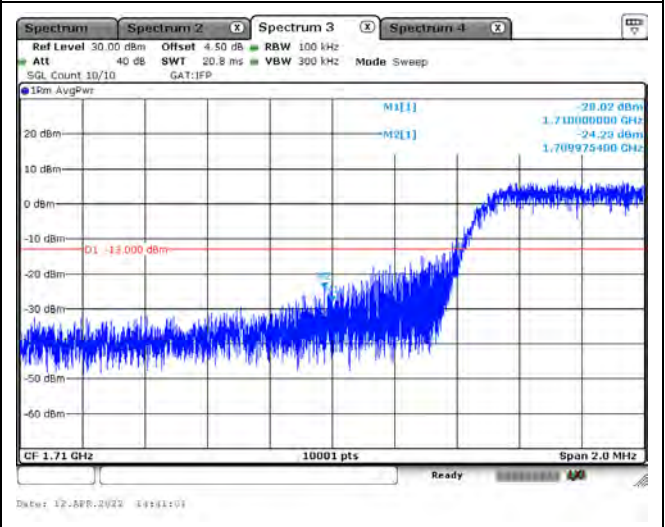
B66\_CH132647\_5M\_QPSK\_25RB0



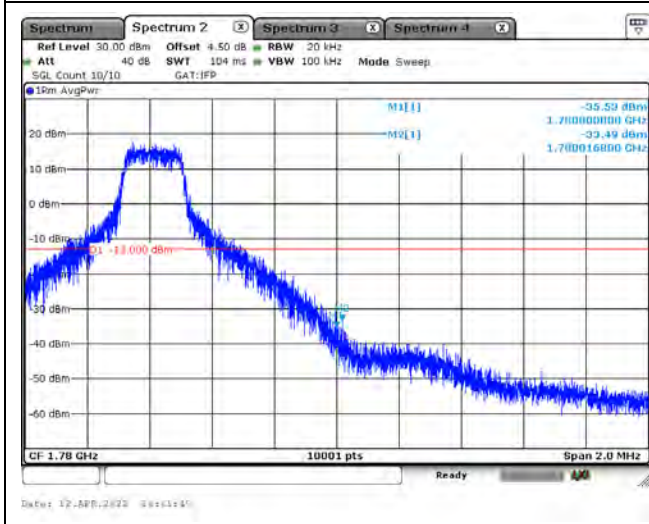
B66\_CH132022\_10M\_QPSK\_1RB0



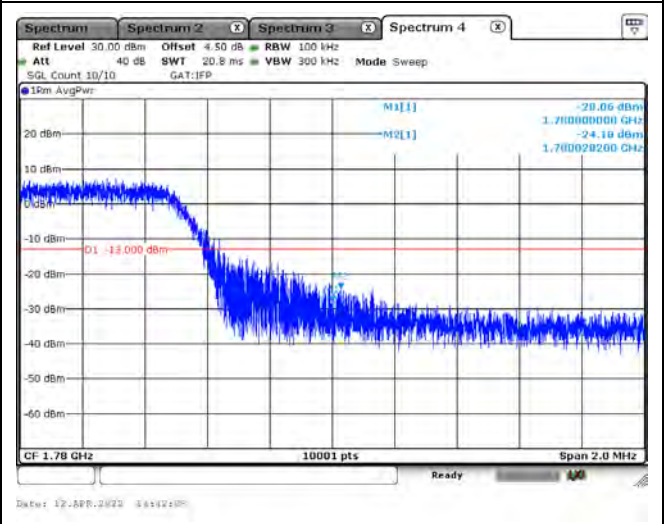
B66\_CH132022\_10M\_QPSK\_50RB0



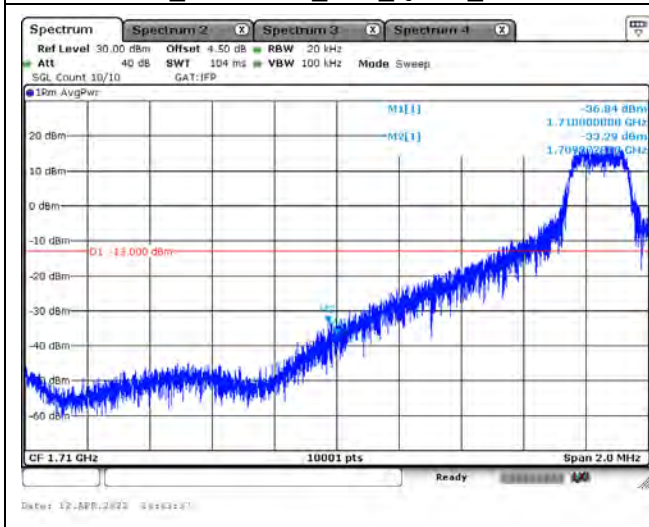
B66\_CH132622\_10M\_QPSK\_1RB49



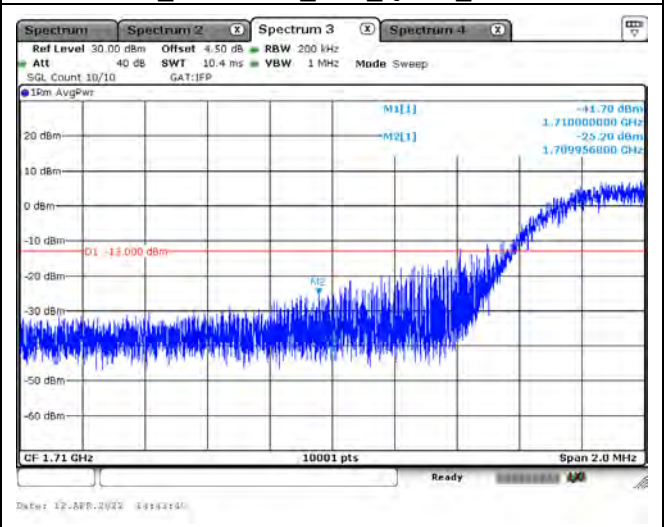
B66\_CH132622\_10M\_QPSK\_50RB0



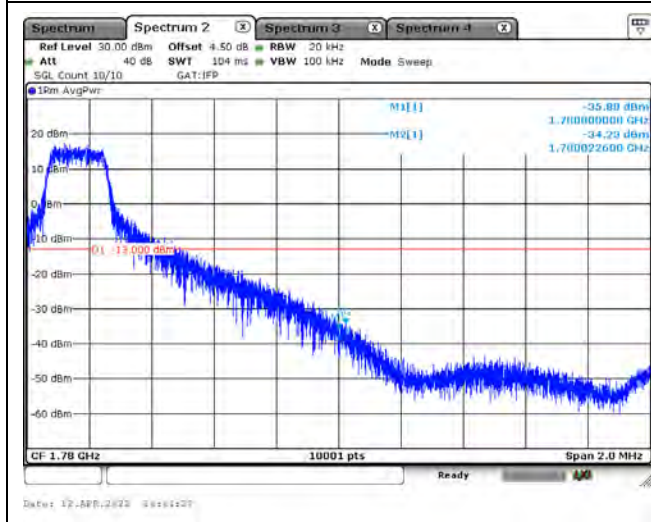
B66\_CH132047\_15M\_QPSK\_1RB0



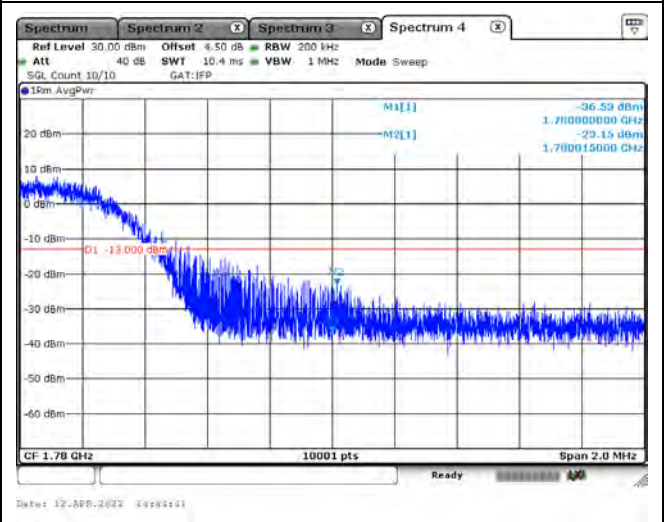
B66\_CH132047\_15M\_QPSK\_75RB0



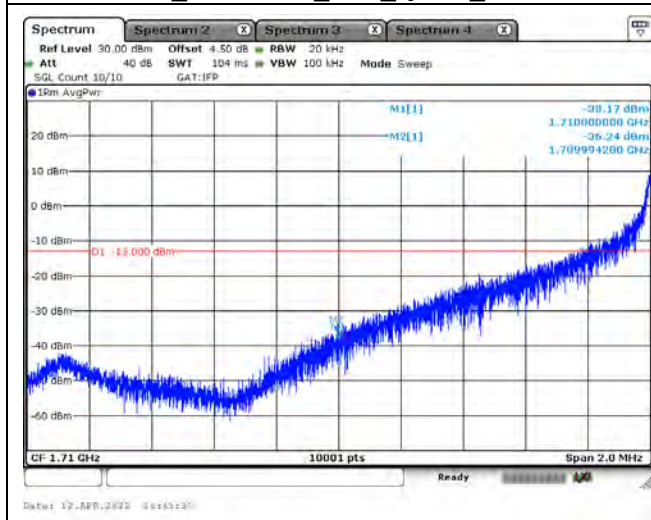
B66\_CH132597\_15M\_QPSK\_1RB74



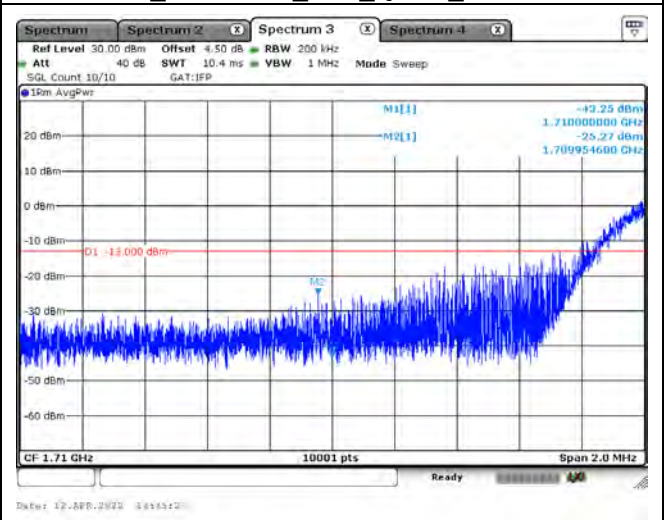
B66\_CH132597\_15M\_QPSK\_75RB0



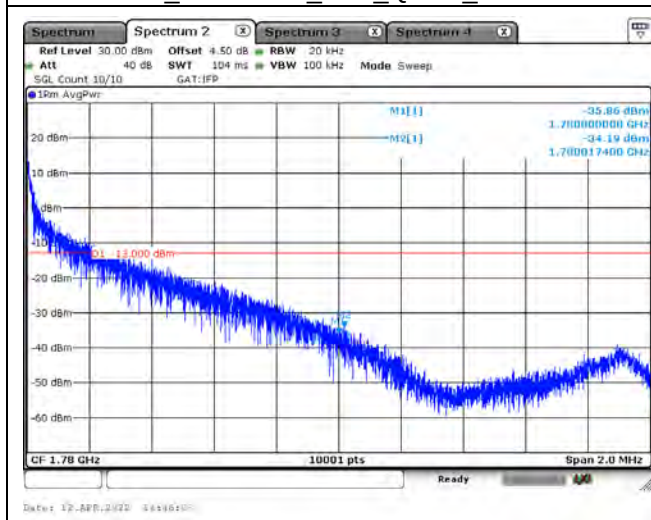
B66\_CH132072\_20M\_QPSK\_1RB0



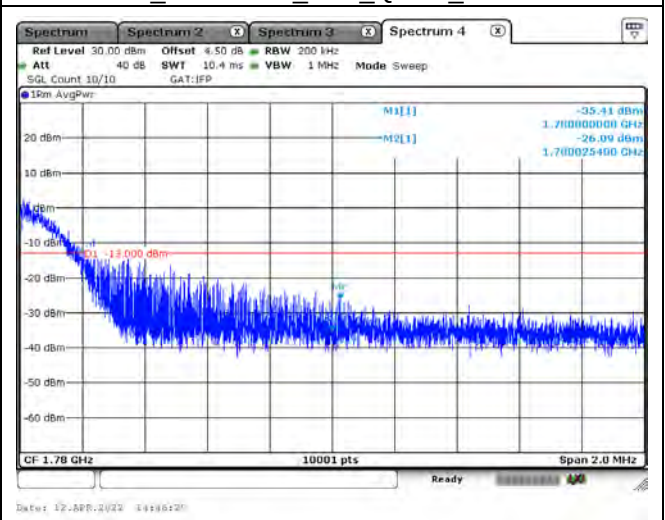
B66\_CH132072\_20M\_QPSK\_100RB0



B66\_CH132572\_20M\_QPSK\_1RB99

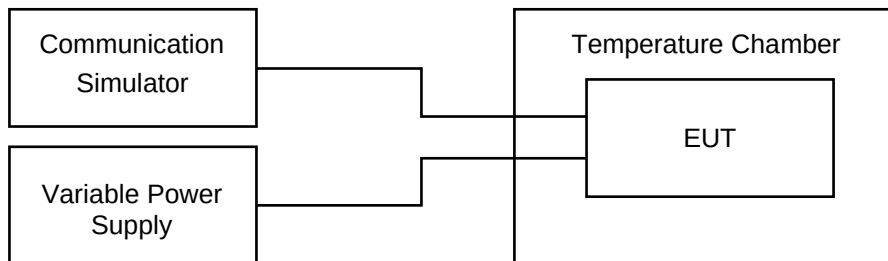


B66\_CH132572\_20M\_QPSK\_100RB0



## 8. Frequency Stability

### 8.1. Test Setup



### 8.2. Test Procedure

#### Frequency Stability under Temperature Variations:

The EUT under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a communication simulator. The EUT was placed inside the temperature chamber. Set the EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

#### Frequency Stability under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC or DC power supply to power the EUT and set the voltage to rated voltage. Reduce the input voltage to specify extreme voltage variation ( $\pm 15\%$ ) and endpoint, record the maximum frequency change.

### 8.3. Test Methodology and Reference Procedures

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI C63.26-2015

## 8.4. Test Result of Frequency Stability

### Mode 1: LTE Band 2

#### LTE Band 2 / 1.4 MHz / 1850.7 MHz

| Voltage (VAC) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|---------------|--------------------------|---------------------------|
| 138.00        | 2.30                     | 0.0012                    |
| 120.00        | 3.12                     | 0.0017                    |
| 102.00        | 3.11                     | 0.0017                    |

| Temperature (°C) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|------------------|--------------------------|---------------------------|
| -30              | 3.18                     | 0.0017                    |
| -20              | 1.55                     | 0.0008                    |
| -10              | 2.09                     | 0.0011                    |
| 0                | 2.47                     | 0.0013                    |
| 10               | 2.83                     | 0.0015                    |
| 20               | 3.18                     | 0.0017                    |
| 30               | 2.21                     | 0.0012                    |
| 40               | 2.71                     | 0.0015                    |
| 50               | 3.55                     | 0.0019                    |

#### LTE Band 2 / 1.4 MHz / 1909.3 MHz

| Voltage (VAC) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|---------------|--------------------------|---------------------------|
| 138.00        | 1.73                     | 0.0009                    |
| 120.00        | 2.66                     | 0.0014                    |
| 102.00        | 1.83                     | 0.0010                    |

| Temperature (°C) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|------------------|--------------------------|---------------------------|
| -30              | 2.16                     | 0.0011                    |
| -20              | 1.96                     | 0.0010                    |
| -10              | 2.65                     | 0.0014                    |
| 0                | 2.14                     | 0.0011                    |
| 10               | 1.24                     | 0.0006                    |
| 20               | 2.32                     | 0.0012                    |
| 30               | 1.79                     | 0.0009                    |
| 40               | 2.41                     | 0.0013                    |
| 50               | 1.27                     | 0.0007                    |

**LTE Band 2 / 3 MHz / 1851.5 MHz**

| Voltage (VAC) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|---------------|--------------------------|---------------------------|
| 138.00        | 3.26                     | 0.0018                    |
| 120.00        | 3.02                     | 0.0016                    |
| 102.00        | 2.07                     | 0.0011                    |

| Temperature (°C) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|------------------|--------------------------|---------------------------|
| -30              | 3.01                     | 0.0016                    |
| -20              | 2.50                     | 0.0014                    |
| -10              | 1.95                     | 0.0011                    |
| 0                | 1.67                     | 0.0009                    |
| 10               | 2.34                     | 0.0013                    |
| 20               | 2.62                     | 0.0014                    |
| 30               | 2.69                     | 0.0015                    |
| 40               | 2.32                     | 0.0013                    |
| 50               | 3.33                     | 0.0018                    |

**LTE Band 2 / 3 MHz / 1908.5 MHz**

| Voltage (VAC) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|---------------|--------------------------|---------------------------|
| 138.00        | 3.23                     | 0.0017                    |
| 120.00        | 2.86                     | 0.0015                    |
| 102.00        | 1.96                     | 0.0010                    |

| Temperature (°C) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|------------------|--------------------------|---------------------------|
| -30              | 2.23                     | 0.0012                    |
| -20              | 2.39                     | 0.0013                    |
| -10              | 2.43                     | 0.0013                    |
| 0                | 2.60                     | 0.0014                    |
| 10               | 1.61                     | 0.0008                    |
| 20               | 2.45                     | 0.0013                    |
| 30               | 2.93                     | 0.0015                    |
| 40               | 1.71                     | 0.0009                    |
| 50               | 2.41                     | 0.0013                    |

**LTE Band 2 / 5 MHz / 1852.5 MHz**

| Voltage (VAC) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|---------------|--------------------------|---------------------------|
| 138.00        | 1.13                     | 0.0006                    |
| 120.00        | 2.41                     | 0.0013                    |
| 102.00        | 1.80                     | 0.0010                    |

| Temperature (°C) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|------------------|--------------------------|---------------------------|
| -30              | 1.51                     | 0.0008                    |
| -20              | 2.50                     | 0.0013                    |
| -10              | 1.96                     | 0.0011                    |
| 0                | 1.58                     | 0.0009                    |
| 10               | 0.92                     | 0.0005                    |
| 20               | 1.13                     | 0.0006                    |
| 30               | 1.34                     | 0.0007                    |
| 40               | 2.18                     | 0.0012                    |
| 50               | 2.60                     | 0.0014                    |

**LTE Band 2 / 5 MHz / 1907.5 MHz**

| Voltage (VAC) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|---------------|--------------------------|---------------------------|
| 138.00        | 3.28                     | 0.0017                    |
| 120.00        | 3.02                     | 0.0016                    |
| 102.00        | 2.79                     | 0.0015                    |

| Temperature (°C) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|------------------|--------------------------|---------------------------|
| -30              | 2.83                     | 0.0015                    |
| -20              | 3.06                     | 0.0016                    |
| -10              | 3.61                     | 0.0019                    |
| 0                | 2.46                     | 0.0013                    |
| 10               | 2.81                     | 0.0015                    |
| 20               | 2.51                     | 0.0013                    |
| 30               | 2.90                     | 0.0015                    |
| 40               | 2.29                     | 0.0012                    |
| 50               | 2.78                     | 0.0015                    |

**LTE Band 2 / 10 MHz / 1855 MHz**

| Voltage (VAC) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|---------------|--------------------------|---------------------------|
| 138.00        | 1.74                     | 0.0009                    |
| 120.00        | 2.74                     | 0.0015                    |
| 102.00        | 1.52                     | 0.0008                    |

| Temperature (°C) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|------------------|--------------------------|---------------------------|
| -30              | 2.24                     | 0.0012                    |
| -20              | 1.75                     | 0.0009                    |
| -10              | 1.79                     | 0.0010                    |
| 0                | 1.99                     | 0.0011                    |
| 10               | 1.42                     | 0.0008                    |
| 20               | 1.55                     | 0.0008                    |
| 30               | 2.69                     | 0.0015                    |
| 40               | 2.32                     | 0.0013                    |
| 50               | 1.72                     | 0.0009                    |

**LTE Band 2 / 10 MHz / 1905 MHz**

| Voltage (VAC) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|---------------|--------------------------|---------------------------|
| 138.00        | 2.61                     | 0.0014                    |
| 120.00        | 2.82                     | 0.0015                    |
| 102.00        | 1.36                     | 0.0007                    |

| Temperature (°C) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|------------------|--------------------------|---------------------------|
| -30              | 2.77                     | 0.0015                    |
| -20              | 1.20                     | 0.0006                    |
| -10              | 2.68                     | 0.0014                    |
| 0                | 2.78                     | 0.0015                    |
| 10               | 1.65                     | 0.0009                    |
| 20               | 1.25                     | 0.0007                    |
| 30               | 1.60                     | 0.0008                    |
| 40               | 1.99                     | 0.0010                    |
| 50               | 2.12                     | 0.0011                    |

**LTE Band 2 / 15 MHz / 1857.5 MHz**

| Voltage (VAC) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|---------------|--------------------------|---------------------------|
| 138.00        | 1.26                     | 0.0007                    |
| 120.00        | 2.31                     | 0.0012                    |
| 102.00        | 1.20                     | 0.0006                    |

| Temperature (°C) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|------------------|--------------------------|---------------------------|
| -30              | 2.23                     | 0.0012                    |
| -20              | 1.29                     | 0.0007                    |
| -10              | 1.54                     | 0.0008                    |
| 0                | 1.89                     | 0.0010                    |
| 10               | 1.70                     | 0.0009                    |
| 20               | 0.76                     | 0.0004                    |
| 30               | 2.64                     | 0.0014                    |
| 40               | 1.76                     | 0.0009                    |
| 50               | 1.69                     | 0.0009                    |

**LTE Band 2 / 15 MHz / 1902.5 MHz**

| Voltage (VAC) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|---------------|--------------------------|---------------------------|
| 138.00        | 2.27                     | 0.0012                    |
| 120.00        | 2.37                     | 0.0012                    |
| 102.00        | 1.59                     | 0.0008                    |

| Temperature (°C) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|------------------|--------------------------|---------------------------|
| -30              | 1.64                     | 0.0009                    |
| -20              | 1.42                     | 0.0007                    |
| -10              | 2.07                     | 0.0011                    |
| 0                | 1.69                     | 0.0009                    |
| 10               | 1.54                     | 0.0008                    |
| 20               | 1.23                     | 0.0006                    |
| 30               | 2.50                     | 0.0013                    |
| 40               | 1.47                     | 0.0008                    |
| 50               | 2.01                     | 0.0011                    |

**LTE Band 2 / 20 MHz / 1860 MHz**

| Voltage (VAC) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|---------------|--------------------------|---------------------------|
| 138.00        | 1.45                     | 0.0008                    |
| 120.00        | 2.31                     | 0.0012                    |
| 102.00        | 1.28                     | 0.0007                    |

| Temperature (°C) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|------------------|--------------------------|---------------------------|
| -30              | 2.04                     | 0.0011                    |
| -20              | 2.27                     | 0.0012                    |
| -10              | 1.99                     | 0.0011                    |
| 0                | 0.94                     | 0.0005                    |
| 10               | 2.54                     | 0.0014                    |
| 20               | 0.89                     | 0.0005                    |
| 30               | 2.26                     | 0.0012                    |
| 40               | 1.49                     | 0.0008                    |
| 50               | 1.56                     | 0.0008                    |

**LTE Band 2 / 20 MHz / 1900 MHz**

| Voltage (VAC) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|---------------|--------------------------|---------------------------|
| 138.00        | 2.37                     | 0.0012                    |
| 120.00        | 2.26                     | 0.0012                    |
| 102.00        | 1.72                     | 0.0009                    |

| Temperature (°C) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|------------------|--------------------------|---------------------------|
| -30              | 2.04                     | 0.0011                    |
| -20              | 1.25                     | 0.0007                    |
| -10              | 1.43                     | 0.0008                    |
| 0                | 1.25                     | 0.0007                    |
| 10               | 2.46                     | 0.0013                    |
| 20               | 1.77                     | 0.0009                    |
| 30               | 2.16                     | 0.0011                    |
| 40               | 1.91                     | 0.0010                    |
| 50               | 2.58                     | 0.0014                    |

**Mode 2: LTE Band 5****LTE Band 5 / 1.4 MHz / 824.7 MHz**

| Voltage (VAC) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|---------------|--------------------------|---------------------------|
| 138.00        | 3.23                     | 0.0039                    |
| 120.00        | 3.12                     | 0.0038                    |
| 102.00        | 2.03                     | 0.0025                    |

| Temperature (°C) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|------------------|--------------------------|---------------------------|
| -30              | 3.38                     | 0.0041                    |
| -20              | 1.95                     | 0.0024                    |
| -10              | 2.61                     | 0.0032                    |
| 0                | 2.76                     | 0.0033                    |
| 10               | 2.68                     | 0.0032                    |
| 20               | 2.09                     | 0.0025                    |
| 30               | 1.65                     | 0.0020                    |
| 40               | 3.47                     | 0.0042                    |
| 50               | 2.66                     | 0.0032                    |

**LTE Band 5 / 1.4 MHz / 848.3 MHz**

| Voltage (VAC) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|---------------|--------------------------|---------------------------|
| 138.00        | 1.85                     | 0.0022                    |
| 120.00        | 2.87                     | 0.0034                    |
| 102.00        | 2.12                     | 0.0025                    |

| Temperature (°C) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|------------------|--------------------------|---------------------------|
| -30              | 2.05                     | 0.0024                    |
| -20              | 1.58                     | 0.0019                    |
| -10              | 2.08                     | 0.0025                    |
| 0                | 2.87                     | 0.0034                    |
| 10               | 3.21                     | 0.0038                    |
| 20               | 1.89                     | 0.0022                    |
| 30               | 3.13                     | 0.0037                    |
| 40               | 2.30                     | 0.0027                    |
| 50               | 2.41                     | 0.0028                    |

**LTE Band 5 / 3 MHz / 825.5 MHz**

| Voltage (VAC) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|---------------|--------------------------|---------------------------|
| 138.00        | 2.09                     | 0.0025                    |
| 120.00        | 2.47                     | 0.0030                    |
| 102.00        | 1.69                     | 0.0020                    |

| Temperature (°C) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|------------------|--------------------------|---------------------------|
| -30              | 2.27                     | 0.0027                    |
| -20              | 1.40                     | 0.0017                    |
| -10              | 2.51                     | 0.0030                    |
| 0                | 2.40                     | 0.0029                    |
| 10               | 1.76                     | 0.0021                    |
| 20               | 1.28                     | 0.0016                    |
| 30               | 1.73                     | 0.0021                    |
| 40               | 1.55                     | 0.0019                    |
| 50               | 2.81                     | 0.0034                    |

**LTE Band 5 / 3 MHz / 847.5 MHz**

| Voltage (VAC) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|---------------|--------------------------|---------------------------|
| 138.00        | 2.05                     | 0.0024                    |
| 120.00        | 2.49                     | 0.0029                    |
| 102.00        | 1.28                     | 0.0015                    |

| Temperature (°C) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|------------------|--------------------------|---------------------------|
| -30              | 2.28                     | 0.0027                    |
| -20              | 1.96                     | 0.0023                    |
| -10              | 1.59                     | 0.0019                    |
| 0                | 1.85                     | 0.0022                    |
| 10               | 1.15                     | 0.0014                    |
| 20               | 2.58                     | 0.0030                    |
| 30               | 2.31                     | 0.0027                    |
| 40               | 2.51                     | 0.0030                    |
| 50               | 2.38                     | 0.0028                    |

**LTE Band 5 / 5 MHz / 826.5 MHz**

| Voltage (VAC) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|---------------|--------------------------|---------------------------|
| 138.00        | 2.31                     | 0.0028                    |
| 120.00        | 2.79                     | 0.0034                    |
| 102.00        | 1.85                     | 0.0022                    |

| Temperature (°C) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|------------------|--------------------------|---------------------------|
| -30              | 2.65                     | 0.0032                    |
| -20              | 2.92                     | 0.0035                    |
| -10              | 2.19                     | 0.0026                    |
| 0                | 2.75                     | 0.0033                    |
| 10               | 1.98                     | 0.0024                    |
| 20               | 1.77                     | 0.0021                    |
| 30               | 1.96                     | 0.0024                    |
| 40               | 3.23                     | 0.0039                    |
| 50               | 2.72                     | 0.0033                    |

**LTE Band 5 / 5 MHz / 846.5 MHz**

| Voltage (VAC) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|---------------|--------------------------|---------------------------|
| 138.00        | 1.57                     | 0.0019                    |
| 120.00        | 2.71                     | 0.0032                    |
| 102.00        | 2.86                     | 0.0034                    |

| Temperature (°C) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|------------------|--------------------------|---------------------------|
| -30              | 2.77                     | 0.0033                    |
| -20              | 2.22                     | 0.0026                    |
| -10              | 3.41                     | 0.0040                    |
| 0                | 2.44                     | 0.0029                    |
| 10               | 1.97                     | 0.0023                    |
| 20               | 1.34                     | 0.0016                    |
| 30               | 1.64                     | 0.0019                    |
| 40               | 2.43                     | 0.0029                    |
| 50               | 2.29                     | 0.0027                    |

**LTE Band 5 / 10 MHz / 829 MHz**

| Voltage (VAC) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|---------------|--------------------------|---------------------------|
| 138.00        | 2.32                     | 0.0028                    |
| 120.00        | 2.49                     | 0.0030                    |
| 102.00        | 2.35                     | 0.0028                    |

| Temperature (°C) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|------------------|--------------------------|---------------------------|
| -30              | 2.56                     | 0.0031                    |
| -20              | 1.48                     | 0.0018                    |
| -10              | 1.45                     | 0.0017                    |
| 0                | 1.72                     | 0.0021                    |
| 10               | 1.60                     | 0.0019                    |
| 20               | 1.47                     | 0.0018                    |
| 30               | 1.78                     | 0.0021                    |
| 40               | 2.22                     | 0.0027                    |
| 50               | 2.24                     | 0.0027                    |

**LTE Band 5 / 10 MHz / 844 MHz**

| Voltage (VAC) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|---------------|--------------------------|---------------------------|
| 138.00        | 3.35                     | 0.0040                    |
| 120.00        | 2.55                     | 0.0030                    |
| 102.00        | 1.97                     | 0.0023                    |

| Temperature (°C) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|------------------|--------------------------|---------------------------|
| -30              | 1.94                     | 0.0023                    |
| -20              | 2.79                     | 0.0033                    |
| -10              | 0.98                     | 0.0012                    |
| 0                | 1.98                     | 0.0023                    |
| 10               | 2.20                     | 0.0026                    |
| 20               | 2.06                     | 0.0024                    |
| 30               | 1.75                     | 0.0021                    |
| 40               | 2.66                     | 0.0032                    |
| 50               | 1.93                     | 0.0023                    |

**Mode 3: LTE Band 13****LTE Band 13 / 5 MHz / 779.5 MHz**

| Voltage (VAC) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|---------------|--------------------------|---------------------------|
| 138.00        | 2.19                     | 0.0028                    |
| 120.00        | 2.41                     | 0.0031                    |
| 102.00        | 1.93                     | 0.0025                    |

| Temperature (°C) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|------------------|--------------------------|---------------------------|
| -30              | 2.33                     | 0.0030                    |
| -20              | 2.19                     | 0.0028                    |
| -10              | 2.41                     | 0.0031                    |
| 0                | 2.83                     | 0.0036                    |
| 10               | 1.47                     | 0.0019                    |
| 20               | 1.76                     | 0.0023                    |
| 30               | 1.11                     | 0.0014                    |
| 40               | 2.19                     | 0.0028                    |
| 50               | 2.17                     | 0.0028                    |

**LTE Band 13 / 5 MHz / 784.5 MHz**

| Voltage (VAC) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|---------------|--------------------------|---------------------------|
| 138.00        | 1.72                     | 0.0022                    |
| 120.00        | 2.54                     | 0.0032                    |
| 102.00        | 1.49                     | 0.0019                    |

| Temperature (°C) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|------------------|--------------------------|---------------------------|
| -30              | 2.26                     | 0.0029                    |
| -20              | 1.85                     | 0.0024                    |
| -10              | 2.75                     | 0.0035                    |
| 0                | 2.27                     | 0.0029                    |
| 10               | 1.43                     | 0.0018                    |
| 20               | 2.19                     | 0.0028                    |
| 30               | 1.96                     | 0.0025                    |
| 40               | 2.33                     | 0.0030                    |
| 50               | 1.93                     | 0.0025                    |

**LTE Band 13 / 10 MHz / 782 MHz**

| Voltage (VAC) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|---------------|--------------------------|---------------------------|
| 138.00        | 1.55                     | 0.0020                    |
| 120.00        | 2.38                     | 0.0030                    |
| 102.00        | 1.97                     | 0.0025                    |

| Temperature (°C) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|------------------|--------------------------|---------------------------|
| -30              | 2.22                     | 0.0028                    |
| -20              | 2.21                     | 0.0028                    |
| -10              | 1.87                     | 0.0024                    |
| 0                | 2.71                     | 0.0035                    |
| 10               | 1.06                     | 0.0014                    |
| 20               | 1.41                     | 0.0018                    |
| 30               | 2.62                     | 0.0034                    |
| 40               | 1.63                     | 0.0021                    |
| 50               | 1.40                     | 0.0018                    |

**Mode 4: LTE Band 66****LTE Band 66 / 1.4 MHz / 1710.7 MHz**

| Voltage (VAC) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|---------------|--------------------------|---------------------------|
| 138.00        | 1.80                     | 0.0011                    |
| 120.00        | 2.56                     | 0.0015                    |
| 102.00        | 2.25                     | 0.0013                    |

| Temperature (°C) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|------------------|--------------------------|---------------------------|
| -30              | 1.79                     | 0.0010                    |
| -20              | 2.21                     | 0.0013                    |
| -10              | 1.54                     | 0.0009                    |
| 0                | 1.60                     | 0.0009                    |
| 10               | 2.72                     | 0.0016                    |
| 20               | 1.10                     | 0.0006                    |
| 30               | 2.44                     | 0.0014                    |
| 40               | 2.34                     | 0.0014                    |
| 50               | 1.39                     | 0.0008                    |

**LTE Band 66 / 1.4 MHz / 1779.3 MHz**

| Voltage (VAC) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|---------------|--------------------------|---------------------------|
| 138.00        | 2.82                     | 0.0016                    |
| 120.00        | 2.31                     | 0.0013                    |
| 102.00        | 2.09                     | 0.0012                    |

| Temperature (°C) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|------------------|--------------------------|---------------------------|
| -30              | 1.24                     | 0.0007                    |
| -20              | 1.26                     | 0.0007                    |
| -10              | 0.82                     | 0.0005                    |
| 0                | 1.93                     | 0.0011                    |
| 10               | 2.80                     | 0.0016                    |
| 20               | 1.65                     | 0.0009                    |
| 30               | 2.04                     | 0.0011                    |
| 40               | 1.70                     | 0.0010                    |
| 50               | 2.26                     | 0.0013                    |

**LTE Band 66 / 3 MHz / 1711.5 MHz**

| Voltage (VAC) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|---------------|--------------------------|---------------------------|
| 138.00        | 2.03                     | 0.0012                    |
| 120.00        | 1.92                     | 0.0011                    |
| 102.00        | 1.47                     | 0.0009                    |

| Temperature (°C) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|------------------|--------------------------|---------------------------|
| -30              | 1.69                     | 0.0010                    |
| -20              | 1.50                     | 0.0009                    |
| -10              | 1.22                     | 0.0007                    |
| 0                | 1.49                     | 0.0009                    |
| 10               | 1.65                     | 0.0010                    |
| 20               | 1.60                     | 0.0009                    |
| 30               | 1.38                     | 0.0008                    |
| 40               | 1.36                     | 0.0008                    |
| 50               | 1.53                     | 0.0009                    |

**LTE Band 66 / 3 MHz / 1778.5 MHz**

| Voltage (VAC) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|---------------|--------------------------|---------------------------|
| 138.00        | 0.84                     | 0.0005                    |
| 120.00        | 1.63                     | 0.0009                    |
| 102.00        | 0.48                     | 0.0003                    |

| Temperature (°C) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|------------------|--------------------------|---------------------------|
| -30              | 1.18                     | 0.0007                    |
| -20              | 1.40                     | 0.0008                    |
| -10              | 0.88                     | 0.0005                    |
| 0                | 1.51                     | 0.0008                    |
| 10               | 1.72                     | 0.0010                    |
| 20               | 0.88                     | 0.0005                    |
| 30               | 0.75                     | 0.0004                    |
| 40               | 0.10                     | 0.0001                    |
| 50               | 1.11                     | 0.0006                    |

**LTE Band 66 / 5 MHz / 1712.5 MHz**

| Voltage (VAC) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|---------------|--------------------------|---------------------------|
| 138.00        | 2.66                     | 0.0016                    |
| 120.00        | 2.97                     | 0.0017                    |
| 102.00        | 1.85                     | 0.0011                    |

| Temperature (°C) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|------------------|--------------------------|---------------------------|
| -30              | 2.82                     | 0.0016                    |
| -20              | 1.64                     | 0.0010                    |
| -10              | 2.51                     | 0.0015                    |
| 0                | 2.74                     | 0.0016                    |
| 10               | 2.71                     | 0.0016                    |
| 20               | 2.74                     | 0.0016                    |
| 30               | 3.26                     | 0.0019                    |
| 40               | 2.54                     | 0.0015                    |
| 50               | 2.75                     | 0.0016                    |

**LTE Band 66 / 5 MHz / 1777.5 MHz**

| Voltage (VAC) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|---------------|--------------------------|---------------------------|
| 138.00        | 2.83                     | 0.0016                    |
| 120.00        | 2.90                     | 0.0016                    |
| 102.00        | 1.71                     | 0.0010                    |

| Temperature (°C) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|------------------|--------------------------|---------------------------|
| -30              | 2.01                     | 0.0011                    |
| -20              | 3.60                     | 0.0020                    |
| -10              | 2.48                     | 0.0014                    |
| 0                | 2.31                     | 0.0013                    |
| 10               | 1.90                     | 0.0011                    |
| 20               | 2.44                     | 0.0014                    |
| 30               | 2.59                     | 0.0015                    |
| 40               | 2.05                     | 0.0012                    |
| 50               | 2.01                     | 0.0011                    |

**LTE Band 66 / 10 MHz / 1715 MHz**

| Voltage (VAC) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|---------------|--------------------------|---------------------------|
| 138.00        | 1.07                     | 0.0006                    |
| 120.00        | 2.19                     | 0.0013                    |
| 102.00        | 2.15                     | 0.0013                    |

| Temperature (°C) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|------------------|--------------------------|---------------------------|
| -30              | 1.43                     | 0.0008                    |
| -20              | 1.51                     | 0.0009                    |
| -10              | 0.67                     | 0.0004                    |
| 0                | 1.39                     | 0.0008                    |
| 10               | 1.52                     | 0.0009                    |
| 20               | 1.83                     | 0.0011                    |
| 30               | 1.49                     | 0.0009                    |
| 40               | 2.30                     | 0.0013                    |
| 50               | 1.52                     | 0.0009                    |

**LTE Band 66 / 10 MHz / 1775 MHz**

| Voltage (VAC) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|---------------|--------------------------|---------------------------|
| 138.00        | 1.39                     | 0.0008                    |
| 120.00        | 2.24                     | 0.0013                    |
| 102.00        | 2.33                     | 0.0013                    |

| Temperature (°C) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|------------------|--------------------------|---------------------------|
| -30              | 1.38                     | 0.0008                    |
| -20              | 1.28                     | 0.0007                    |
| -10              | 1.42                     | 0.0008                    |
| 0                | 2.36                     | 0.0013                    |
| 10               | 0.66                     | 0.0004                    |
| 20               | 1.56                     | 0.0009                    |
| 30               | 1.56                     | 0.0009                    |
| 40               | 1.01                     | 0.0006                    |
| 50               | 1.69                     | 0.0010                    |

**LTE Band 66 / 15 MHz / 1717.5 MHz**

| Voltage (VAC) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|---------------|--------------------------|---------------------------|
| 138.00        | 1.88                     | 0.0011                    |
| 120.00        | 2.32                     | 0.0014                    |
| 102.00        | 1.56                     | 0.0009                    |

| Temperature (°C) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|------------------|--------------------------|---------------------------|
| -30              | 2.32                     | 0.0014                    |
| -20              | 2.40                     | 0.0014                    |
| -10              | 2.81                     | 0.0016                    |
| 0                | 2.82                     | 0.0016                    |
| 10               | 2.01                     | 0.0012                    |
| 20               | 1.85                     | 0.0011                    |
| 30               | 1.27                     | 0.0007                    |
| 40               | 2.51                     | 0.0015                    |
| 50               | 2.84                     | 0.0017                    |

**LTE Band 66 / 15 MHz / 1772.5 MHz**

| Voltage (VAC) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|---------------|--------------------------|---------------------------|
| 138.00        | 3.09                     | 0.0017                    |
| 120.00        | 2.84                     | 0.0016                    |
| 102.00        | 2.38                     | 0.0013                    |

| Temperature (°C) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|------------------|--------------------------|---------------------------|
| -30              | 1.42                     | 0.0008                    |
| -20              | 2.09                     | 0.0012                    |
| -10              | 2.55                     | 0.0014                    |
| 0                | 2.59                     | 0.0015                    |
| 10               | 2.96                     | 0.0017                    |
| 20               | 1.62                     | 0.0009                    |
| 30               | 2.53                     | 0.0014                    |
| 40               | 1.90                     | 0.0011                    |
| 50               | 1.96                     | 0.0011                    |

**LTE Band 66 / 20 MHz / 1720 MHz**

| Voltage (VAC) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|---------------|--------------------------|---------------------------|
| 138.00        | 2.67                     | 0.0016                    |
| 120.00        | 2.88                     | 0.0017                    |
| 102.00        | 2.46                     | 0.0014                    |

| Temperature (°C) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|------------------|--------------------------|---------------------------|
| -30              | 2.54                     | 0.0015                    |
| -20              | 2.84                     | 0.0017                    |
| -10              | 2.07                     | 0.0012                    |
| 0                | 2.41                     | 0.0014                    |
| 10               | 1.85                     | 0.0011                    |
| 20               | 2.89                     | 0.0017                    |
| 30               | 1.55                     | 0.0009                    |
| 40               | 2.63                     | 0.0015                    |
| 50               | 2.17                     | 0.0013                    |

**LTE Band 66 / 20 MHz / 1770 MHz**

| Voltage (VAC) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|---------------|--------------------------|---------------------------|
| 138.00        | 1.68                     | 0.0009                    |
| 120.00        | 2.67                     | 0.0015                    |
| 102.00        | 1.87                     | 0.0011                    |

| Temperature (°C) | Frequency Stability (Hz) | Frequency Stability (ppm) |
|------------------|--------------------------|---------------------------|
| -30              | 2.44                     | 0.0014                    |
| -20              | 2.83                     | 0.0016                    |
| -10              | 1.70                     | 0.0010                    |
| 0                | 1.84                     | 0.0010                    |
| 10               | 2.22                     | 0.0013                    |
| 20               | 2.10                     | 0.0012                    |
| 30               | 2.39                     | 0.0014                    |
| 40               | 1.34                     | 0.0008                    |
| 50               | 1.57                     | 0.0009                    |