



RF TEST REPORT

Applicant Xiaomi Communications Co., Ltd.
FCC ID 2AFZZNC4L
Product Mobile Phone
Brand Redmi
Model 2212ARNC4L
Report No. R2209A0813-R4
Issue Date November 17, 2022

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 2 (2021)/ FCC CFR 47 Part 90S (2021)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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TABLE OF CONTENT

| | |
|---|----|
| 1. Test Laboratory | 4 |
| 1.1. Notes of the Test Report | 4 |
| 1.2. Test facility | 4 |
| 1.3. Testing Location | 4 |
| 2. General Description of Equipment under Test | 5 |
| 2.3. Applicant and Manufacturer Information | 5 |
| 2.4. General Information | 5 |
| 3. Applied Standards | 6 |
| 4. Test Configuration | 7 |
| 5. Test Case | 8 |
| 5.1. RF Power Output and Effective Radiated Power | 8 |
| 5.2. Occupied Bandwidth | 9 |
| 5.3. Emission Mask | 10 |
| 5.4. Peak-to-Average Power Ratio (PAPR) | 11 |
| 5.5. Frequency Stability | 12 |
| 5.6. Spurious Emissions at Antenna Terminals | 14 |
| 5.7. Radiated Spurious Emission | 15 |
| 6. Test Results | 18 |
| 6.1. RF Power Output and Effective Radiated Power | 18 |
| 6.2. Occupied Bandwidth | 28 |
| 6.3. Emission Mask | 35 |
| 6.4. Peak-to-Average Power Ratio (PAPR) | 44 |
| 6.5. Frequency Stability | 45 |
| 6.6. Spurious Emissions at Antenna Terminals | 47 |
| 6.7. Radiated Spurious Emission | 51 |
| 7. Main Test Instruments | 55 |
| ANNEX A: The EUT Appearance | 56 |
| ANNEX B: Test Setup Photos | 57 |



Summary of measurement results

| No. | Test Case | Clause in FCC rules | Verdict |
|-----|--|---------------------|---------|
| 1 | RF Power Output and Effective Radiated Power | 2.1046/90.635(b) | PASS |
| 2 | Occupied Bandwidth | 2.1049/ 90.209 | PASS |
| 3 | Emission Masks | 2.1051 / 90.691 | PASS |
| 4 | Peak-to-Average Power Ratio | KDB 971168 D01(5.7) | PASS |
| 5 | Frequency Stability | 2.1055 / 90.213 | PASS |
| 6 | Spurious Emissions at Antenna Terminals | 2.1051 / 90.691 | PASS |
| 7 | Radiated Spurious Emission | 2.1053 /90.691 | PASS |

Date of Testing: October 11, 2022 ~ October 24, 2022

Date of Sample Received: October 8, 2022

Note: PASS: The EUT complies with the essential requirements in the standard.

FAIL: The EUT does not comply with the essential requirements in the standard.

All indications of Pass/Fail in this report are opinions expressed by TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.



1. Test Laboratory

1.1. Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **TA Technology (Shanghai) Co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein .Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2. Test facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA (Certificate Number: 3857.01)

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

1.3. Testing Location

Company: TA Technology (Shanghai) Co., Ltd.
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E-mail: xukai@ta-shanghai.com

2. General Description of Equipment under Test

2.3. Applicant and Manufacturer Information

| | |
|----------------------|---|
| Applicant | Xiaomi Communications Co., Ltd. |
| Applicant address | #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085 |
| Manufacturer | Xiaomi Communications Co., Ltd. |
| Manufacturer address | #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085 |

2.4. General Information

| EUT Description | | | |
|---|--|-------------|---------------|
| Model | 2212ARNC4L | | |
| IMEI | IMEI 1: 861591060034168 IMEI 2: 861591060034176 | | |
| Hardware Version | P1.1 | | |
| Software Version | MIUI 13 | | |
| Antenna Type | PIFA Antenna | | |
| Antenna Gain | Band | Low Antenna | Upper Antenna |
| | LTE Band 26 | -3.6 dBi | -2.9 dBi |
| Test Mode(s) | LTE Band 26; | | |
| Test Modulation | QPSK, 16QAM, 64QAM; | | |
| LTE Category | 5 | | |
| Maximum E.R.P. | LTE Band 26: | 18.40 dBm | |
| Rated Power Supply Voltage | 3.85V | | |
| Operating Voltage | Minimum: 3.65V Maximum: 4.20V | | |
| Operating Temperature | Lowest: 0°C Highest: +40°C | | |
| Testing Temperature | Lowest: -30°C Highest: +50°C | | |
| Operating Frequency Range(s) | Band | Tx (MHz) | Rx (MHz) |
| | LTE Band 26 | 814 ~ 824 | 859 ~ 869 |
| Note: 1. The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant. 2. Low antenna and Upper antenna can't transmit simultaneously. | | | |



3. Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards:

FCC CFR 47 Part 90S (2021)

FCC CFR47 Part 2 (2021)

Reference standard:

ANSI C63.26-2015

KDB 971168 D01 Power Meas License Digital Systems v03r01

4. Test Configuration

There is more than one SIM card slot, each one should be applied throughout the compliance test respectively, and however, only the worst case (SIM 1) will be recorded in this report.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes. EUT stand-up position (Z axis), lie-down position (X, Y axis). Receiver antenna polarization (horizontal and vertical), the worst emission was found in position (X axis, vertical polarization) and the worst case was recorded.

All mode and data rates and positions were investigated.

The following testing in LTE is set based on the maximum RF Output Power.

Test modes are chosen as the worst case configuration below for LTE Band 26

| Test items | Bandwidth (MHz) | | | | Modulation | | RB | | | Test Channel | | |
|--|---|---|---|----|------------|-----------------|----|-----|------|--------------|---|---|
| | 1.4 | 3 | 5 | 10 | QPSK | 16QAM/ 64QAM | 1 | 50% | 100% | L | M | H |
| RF Power Output and Effective Radiated Power | O | O | O | O | O | O | O | O | O | O | O | O |
| Occupied Bandwidth | O | O | O | O | O | O | - | - | O | O | O | O |
| Emission Mask | O | O | O | O | O | O | O | - | O | O | - | O |
| Peak-to-Average Power Ratio | O | O | O | O | O | O | - | - | O | O | O | O |
| Frequency Stability | O | O | O | O | O | O | O | - | - | - | O | - |
| Spurious Emissions at Antenna Terminals | O | O | O | O | O | - | O | - | - | O | O | O |
| Radiated Spurious Emission | O | - | O | - | O | - | O | - | - | - | O | - |
| Note | 1. The mark "O" means that this configuration is chosen for testing. 2. The mark "-" means that this configuration is not testing. | | | | | | | | | | | |

5. Test Case

5.1. RF Power Output and Effective Radiated Power

Ambient condition

| Temperature | Relative humidity |
|-------------|-------------------|
| 21°C ~25°C | 40%~60% |

Methods of Measurement

During the process of the testing, The EUT was connected to the Base Station Simulator with a known loss. The EUT is controlled by the Base Station Simulator test set to ensure max power transmission with proper modulation.

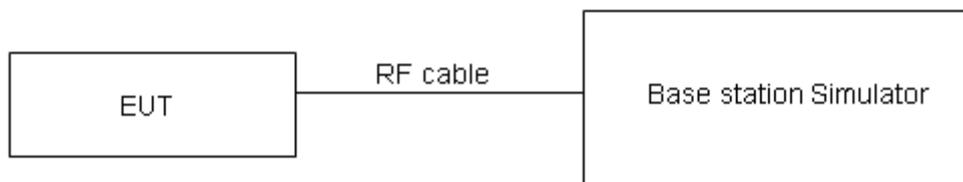
ERP can then be calculated as follows:

$$\text{EIRP (dBm)} = \text{Output Power (dBm)} + \text{Antenna Gain (dBi)}$$

where:dBd refers to gain relative to an ideal dipole.

$$\text{EIRP (dBm)} = \text{ERP (dBm)} + 2.15 \text{ (dB.)}$$

Test Setup



Limits

Part 90.635 (b) the maximum output power of the transmitter for mobile stations is 100 watts.

Rule Part 90.635(b) specifies that “The maximum output power of the transmitter for mobile stations is 100 watts”.

| | |
|-------|------------------|
| Limit | ≤ 100 W (50 dBm) |
|-------|------------------|

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U= 0.4 dB for RF power output, k = 2, U= 1.19 dB for ERP.

Test Results

Refer to the section 6.1 of this report for test data.

5.2. Occupied Bandwidth

Ambient condition

| Temperature | Relative humidity |
|-------------|-------------------|
| 21°C ~25°C | 40%~60% |

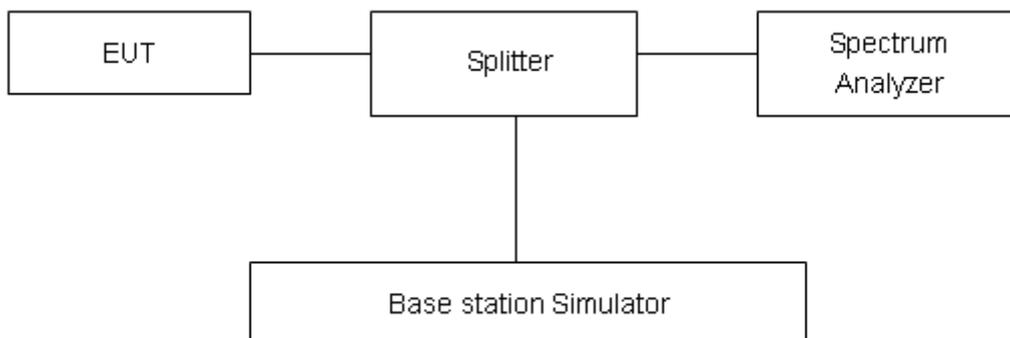
Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The occupied bandwidth is measured using spectrum analyzer.

RBW is set to $\geq 1\%EBW$, VBW is set to 3x RBW.

99% power and -26dBc occupied bandwidths are recorded. Spectrum analyzer plots are included on the following pages.

Test Setup



Limits

No specific occupied bandwidth requirements in part 2.1049.

Part 90.209 (a) Each authorization issued to a station licensed under this part will show an emission designator representing the class of emission authorized. The designator will be prefixed by a specified necessary bandwidth. This number does not necessarily indicate the bandwidth occupied by the emission at any instant. In those cases where part 2.202 of this chapter does not provide a formula for the computation of necessary bandwidth, the occupied bandwidth, as defined in part 2 of this chapter, may be used in lieu of the necessary bandwidth.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 624\text{Hz}$.

Test Results

Refer to the section 6.2 of this report for test data.

5.3. Emission Mask

Ambient condition

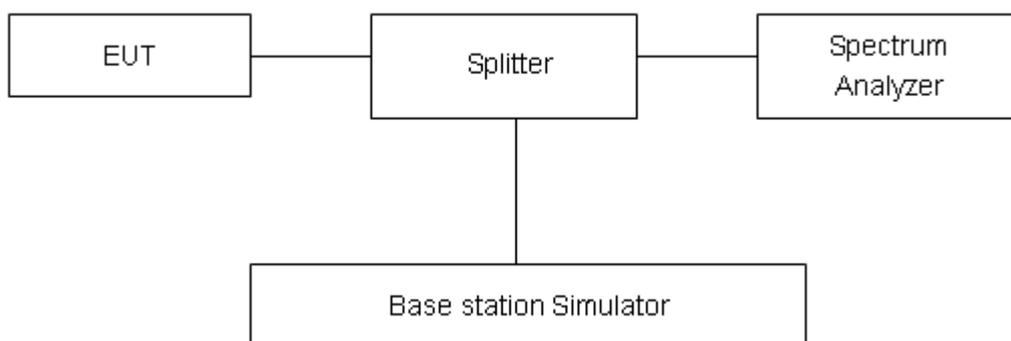
| Temperature | Relative humidity |
|-------------|-------------------|
| 21°C ~25°C | 40%~60% |

Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The band edge of the lowest and highest channels were measured. The average detector is used. For Section 90.691(a) compliance testing, use RBW = 300 Hz for offsets less than 37.5 kHz from a channel edge; RBW = 100 kHz for offsets greater than 37.5 kHz is allowed.

Spectrum analyzer plots are included on the following pages.

Test Setup



Limits

Rule Part 90.691(a) specifies that “ For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \text{ Log}_{10}(f/6.1)$ decibels or $50 + 10 \text{ Log}_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.”

Measurement Uncertainty

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

Test Results

Refer to the section 6.3 of this report for test data.

5.4. Peak-to-Average Power Ratio (PAPR)

Ambient condition

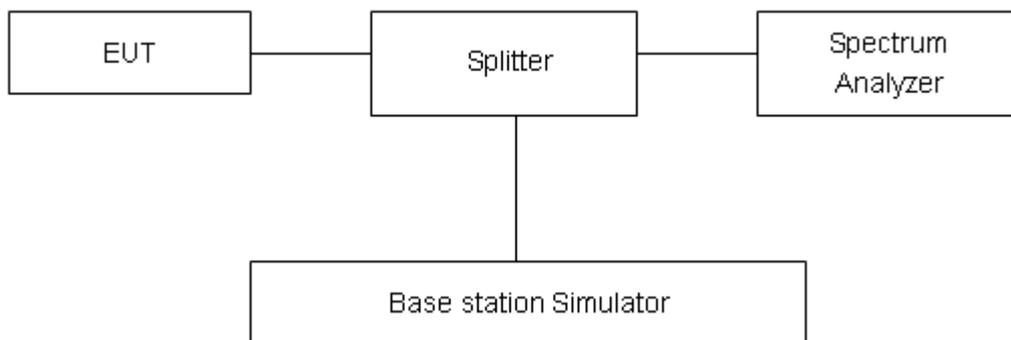
| Temperature | Relative humidity |
|-------------|-------------------|
| 21°C ~25°C | 40%~60% |

Methods of Measurement

Measure the total peak power and record as PPK. And measure the total average power and record as PAvg. Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:

$$PAPR (dB) = PPK (dBm) - PAvg (dBm).$$

Test Setup



Limits

In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB in 24.232(d).

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.4$ dB.

Test Results

Refer to the section 6.4 of this report for test data.

5.5. Frequency Stability

Ambient condition

| Temperature | Relative humidity |
|-------------|-------------------|
| 21°C ~25°C | 40%~60% |

Method of Measurement

1. Frequency Stability (Temperature Variation)

The temperature inside the climate chamber is varied from -30°C to +50°C in 10°C step size,

(1) With all power removed, the temperature was decreased to 0°C and permitted to stabilize for three hours.

(2) Measure the carrier frequency with the test equipment in a “call mode”. These measurements should be made within 1 minute of powering up the mobile station, to prevent significant self warming.

(3) Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, un-powered, before making measurements.

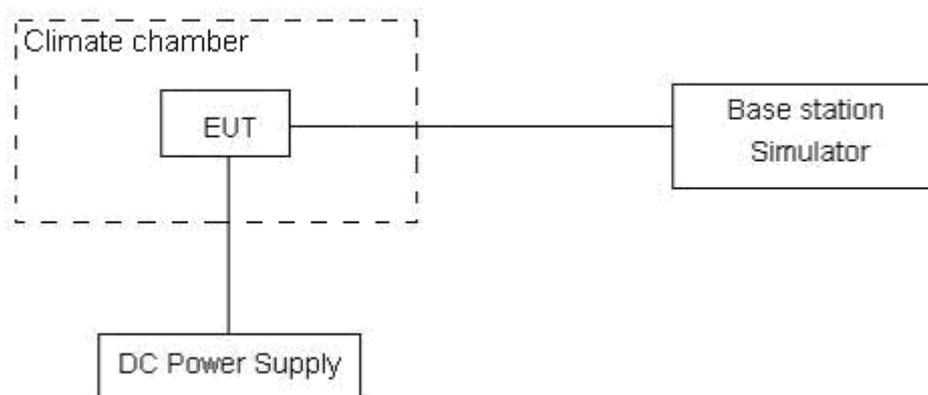
2. Frequency Stability (Voltage Variation)

The frequency stability shall be measured with variation of primary supply voltage as follows:

Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

This transceiver is specified to operate with an input voltage of between 3.65 V and 4.2 V, with a nominal voltage of 3.85V.

Test setup



Limits

According to the Sec. 90.213.(a) Unless noted elsewhere, transmitters used in the services governed by this part must have a minimum frequency stability as specified in the following table.

Minimum Frequency Stability

[Parts per million (ppm)]

| Frequency range (MHz) | Fixed and base stations | Mobile stations | |
|--------------------------|----------------------------|------------------------------|---------------------------------|
| | | Over 2 watts output power | 2 watts or less output power |
| 814 ~ 824 | 1.5 | 2.5 | 2.5 |

Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor $k = 3$, $U = 0.01$ ppm.

Test Results

Refer to the section 6.5 of this report for test data.

5.6. Spurious Emissions at Antenna Terminals

Ambient condition

| Temperature | Relative humidity |
|-------------|-------------------|
| 21°C ~25°C | 40%~60% |

Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The measurement is carried out using a spectrum analyzer. The spectrum analyzer scans from 30MHz to the 10th harmonic of the carrier. The peak detector is used.

RBW is set to 1 kHz (0.009MHz~ 0.15 MHz),

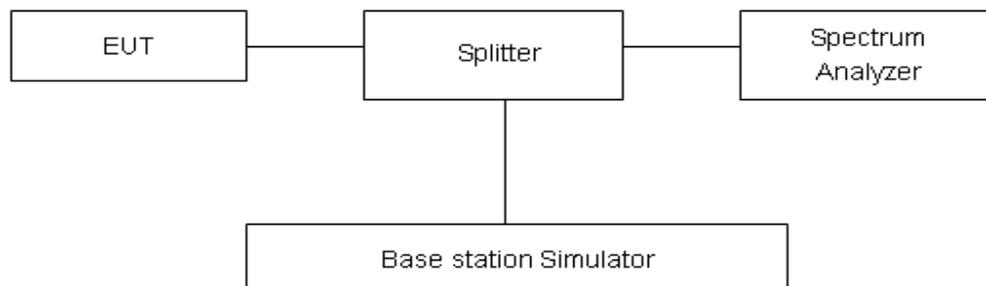
RBW is set to 10 kHz (0.15 MHz~ 30 MHz)

RBW is set to 100 kHz (30MHz~1000 MHz)

RBW is set to 1000 kHz (above 1000MHz)

Sweep is set to ATUO.

Test setup



Limits

Rule Part 90.691 specifies that “The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.”

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

Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

| Frequency | Uncertainty |
|------------|-------------|
| 9kHz-1GHz | 0.684 dB |
| 1GHz-10GHz | 1.407 dB |

Test Results

Refer to the section 6.6 of this report for test data.

5.7. Radiated Spurious Emission

Ambient condition

| Temperature | Relative humidity |
|-------------|-------------------|
| 21°C ~25°C | 40%~60% |

Method of Measurement

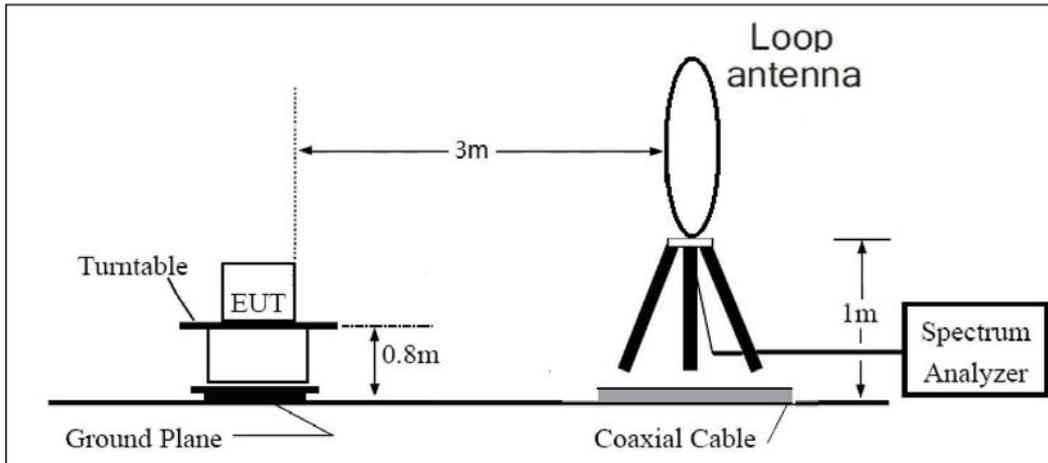
1. The testing follows FCC KDB 971168 v03r01 Section 5.8 and ANSI C63.26-2015.
2. Below 1GHz: The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H). Above 1GHz: (Note: the FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 2, 2014.) The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).
3. A loop antenna, A log-periodic antenna or horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
4. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=100kHz,VBW=300kHz, and the maximum value of the receiver should be recorded as (Pr).
5. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
6. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Pcl) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
7. The measurement results are obtained as described below:
Power(EIRP)=PMea- PAg - Pcl + Ga
The measurement results are amend as described below:
Power(EIRP)=PMea- Pcl + Ga
8. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP

= EIRP-2.15dBi.

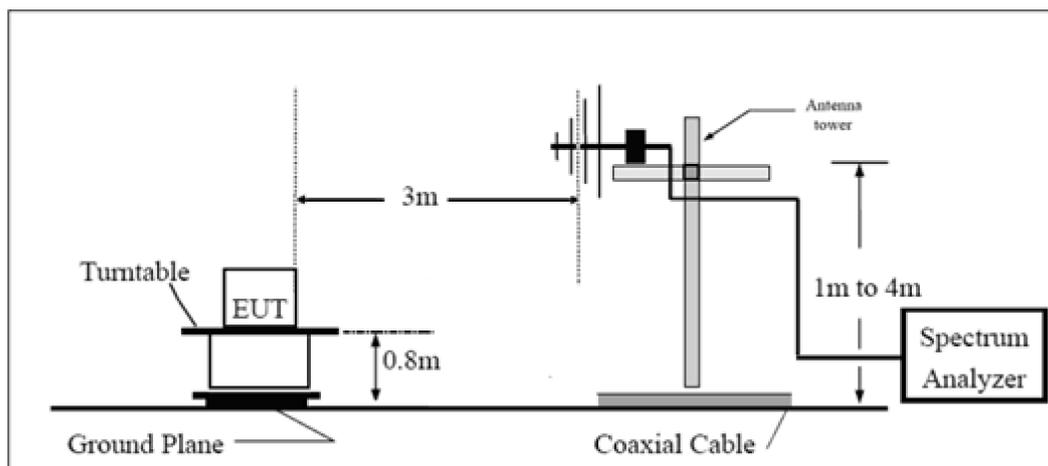
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup

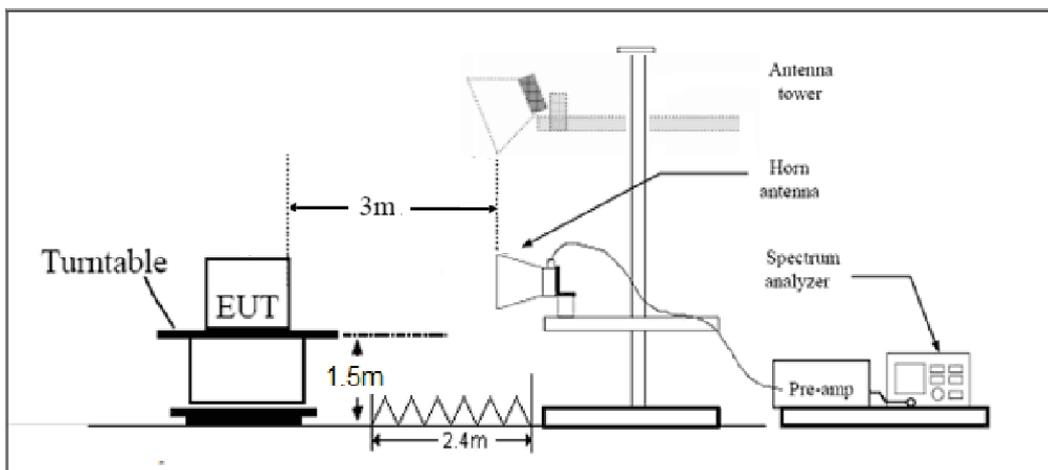
9KHz~ 30MHz



30MHz~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

Limits

Rule Part 90.691 specifies that “The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.”

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

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U = 3.55$ dB.

Test Results

Refer to the section 6.7 of this report for test data.



6. Test Results

6.1. RF Power Output and Effective Radiated Power

| LTE Band 26 Low Antenna | | | | | | |
|-------------------------|------------|---------|-------------|------------|-------------|----------|
| Bandwidth (MHz) | UL Channel | RB Size | RB Position | Modulation | Power (dBm) | ERP(dBm) |
| 1.4 | 26697 | 1 | #0 | QPSK | 23.75 | 18.00 |
| 1.4 | 26697 | 1 | #Mid | QPSK | 23.97 | 18.22 |
| 1.4 | 26697 | 1 | #Max | QPSK | 23.75 | 18.00 |
| 1.4 | 26697 | 3 | #0 | QPSK | 23.75 | 18.00 |
| 1.4 | 26697 | 3 | #Mid | QPSK | 23.76 | 18.01 |
| 1.4 | 26697 | 3 | #Max | QPSK | 23.76 | 18.01 |
| 1.4 | 26697 | 6 | #0 | QPSK | 22.75 | 17.00 |
| 1.4 | 26697 | 1 | #0 | 16QAM | 22.71 | 16.96 |
| 1.4 | 26697 | 1 | #Mid | 16QAM | 22.96 | 17.21 |
| 1.4 | 26697 | 1 | #Max | 16QAM | 22.72 | 16.97 |
| 1.4 | 26697 | 3 | #0 | 16QAM | 22.8 | 17.05 |
| 1.4 | 26697 | 3 | #Mid | 16QAM | 22.85 | 17.10 |
| 1.4 | 26697 | 3 | #Max | 16QAM | 22.91 | 17.16 |
| 1.4 | 26697 | 6 | #0 | 16QAM | 21.74 | 15.99 |
| 1.4 | 26740 | 1 | #0 | QPSK | 23.62 | 17.87 |
| 1.4 | 26740 | 1 | #Mid | QPSK | 23.84 | 18.09 |
| 1.4 | 26740 | 1 | #Max | QPSK | 23.66 | 17.91 |
| 1.4 | 26740 | 3 | #0 | QPSK | 23.7 | 17.95 |
| 1.4 | 26740 | 3 | #Mid | QPSK | 23.71 | 17.96 |
| 1.4 | 26740 | 3 | #Max | QPSK | 23.68 | 17.93 |
| 1.4 | 26740 | 6 | #0 | QPSK | 22.75 | 17.00 |
| 1.4 | 26740 | 1 | #0 | 16QAM | 22.84 | 17.09 |
| 1.4 | 26740 | 1 | #Mid | 16QAM | 23.04 | 17.29 |
| 1.4 | 26740 | 1 | #Max | 16QAM | 22.8 | 17.05 |
| 1.4 | 26740 | 3 | #0 | 16QAM | 22.71 | 16.96 |
| 1.4 | 26740 | 3 | #Mid | 16QAM | 22.71 | 16.96 |
| 1.4 | 26740 | 3 | #Max | 16QAM | 22.72 | 16.97 |
| 1.4 | 26740 | 6 | #0 | 16QAM | 21.7 | 15.95 |
| 1.4 | 26783 | 1 | #0 | QPSK | 23.72 | 17.97 |
| 1.4 | 26783 | 1 | #Mid | QPSK | 23.89 | 18.14 |
| 1.4 | 26783 | 1 | #Max | QPSK | 23.74 | 17.99 |
| 1.4 | 26783 | 3 | #0 | QPSK | 23.76 | 18.01 |
| 1.4 | 26783 | 3 | #Mid | QPSK | 23.79 | 18.04 |
| 1.4 | 26783 | 3 | #Max | QPSK | 23.76 | 18.01 |
| 1.4 | 26783 | 6 | #0 | QPSK | 22.77 | 17.02 |
| 1.4 | 26783 | 1 | #0 | 16QAM | 22.57 | 16.82 |
| 1.4 | 26783 | 1 | #Mid | 16QAM | 22.75 | 17.00 |



| | | | | | | |
|-----|-------|----|------|-------|-------|-------|
| 1.4 | 26783 | 1 | #Max | 16QAM | 22.62 | 16.87 |
| 1.4 | 26783 | 3 | #0 | 16QAM | 22.7 | 16.95 |
| 1.4 | 26783 | 3 | #Mid | 16QAM | 22.71 | 16.96 |
| 1.4 | 26783 | 3 | #Max | 16QAM | 22.69 | 16.94 |
| 1.4 | 26783 | 6 | #0 | 16QAM | 21.74 | 15.99 |
| 3 | 26705 | 1 | #0 | QPSK | 23.71 | 17.96 |
| 3 | 26705 | 1 | #Mid | QPSK | 23.7 | 17.95 |
| 3 | 26705 | 1 | #Max | QPSK | 23.68 | 17.93 |
| 3 | 26705 | 8 | #0 | QPSK | 22.72 | 16.97 |
| 3 | 26705 | 8 | #Mid | QPSK | 22.71 | 16.96 |
| 3 | 26705 | 8 | #Max | QPSK | 22.73 | 16.98 |
| 3 | 26705 | 15 | #0 | QPSK | 22.69 | 16.94 |
| 3 | 26705 | 1 | #0 | 16QAM | 22.97 | 17.22 |
| 3 | 26705 | 1 | #Mid | 16QAM | 22.96 | 17.21 |
| 3 | 26705 | 1 | #Max | 16QAM | 22.92 | 17.17 |
| 3 | 26705 | 8 | #0 | 16QAM | 21.71 | 15.96 |
| 3 | 26705 | 8 | #Mid | 16QAM | 21.71 | 15.96 |
| 3 | 26705 | 8 | #Max | 16QAM | 21.73 | 15.98 |
| 3 | 26705 | 15 | #0 | 16QAM | 21.68 | 15.93 |
| 3 | 26740 | 1 | #0 | QPSK | 23.69 | 17.94 |
| 3 | 26740 | 1 | #Mid | QPSK | 23.68 | 17.93 |
| 3 | 26740 | 1 | #Max | QPSK | 23.72 | 17.97 |
| 3 | 26740 | 8 | #0 | QPSK | 22.73 | 16.98 |
| 3 | 26740 | 8 | #Mid | QPSK | 22.72 | 16.97 |
| 3 | 26740 | 8 | #Max | QPSK | 22.74 | 16.99 |
| 3 | 26740 | 15 | #0 | QPSK | 22.69 | 16.94 |
| 3 | 26740 | 1 | #0 | 16QAM | 22.91 | 17.16 |
| 3 | 26740 | 1 | #Mid | 16QAM | 22.86 | 17.11 |
| 3 | 26740 | 1 | #Max | 16QAM | 22.89 | 17.14 |
| 3 | 26740 | 8 | #0 | 16QAM | 21.71 | 15.96 |
| 3 | 26740 | 8 | #Mid | 16QAM | 21.71 | 15.96 |
| 3 | 26740 | 8 | #Max | 16QAM | 21.69 | 15.94 |
| 3 | 26740 | 15 | #0 | 16QAM | 21.59 | 15.84 |
| 3 | 26775 | 1 | #0 | QPSK | 23.75 | 18.00 |
| 3 | 26775 | 1 | #Mid | QPSK | 23.81 | 18.06 |
| 3 | 26775 | 1 | #Max | QPSK | 23.78 | 18.03 |
| 3 | 26775 | 8 | #0 | QPSK | 22.71 | 16.96 |
| 3 | 26775 | 8 | #Mid | QPSK | 22.73 | 16.98 |
| 3 | 26775 | 8 | #Max | QPSK | 22.73 | 16.98 |
| 3 | 26775 | 15 | #0 | QPSK | 22.69 | 16.94 |
| 3 | 26775 | 1 | #0 | 16QAM | 22.61 | 16.86 |
| 3 | 26775 | 1 | #Mid | 16QAM | 22.63 | 16.88 |
| 3 | 26775 | 1 | #Max | 16QAM | 22.59 | 16.84 |



| | | | | | | |
|---|-------|----|------|-------|-------|-------|
| 3 | 26775 | 8 | #0 | 16QAM | 21.73 | 15.98 |
| 3 | 26775 | 8 | #Mid | 16QAM | 21.72 | 15.97 |
| 3 | 26775 | 8 | #Max | 16QAM | 21.73 | 15.98 |
| 3 | 26775 | 15 | #0 | 16QAM | 21.66 | 15.91 |
| 5 | 26715 | 1 | #0 | QPSK | 23.65 | 17.90 |
| 5 | 26715 | 1 | #Mid | QPSK | 23.74 | 17.99 |
| 5 | 26715 | 1 | #Max | QPSK | 23.61 | 17.86 |
| 5 | 26715 | 12 | #0 | QPSK | 22.68 | 16.93 |
| 5 | 26715 | 12 | #Mid | QPSK | 22.69 | 16.94 |
| 5 | 26715 | 12 | #Max | QPSK | 22.66 | 16.91 |
| 5 | 26715 | 25 | #0 | QPSK | 22.69 | 16.94 |
| 5 | 26715 | 1 | #0 | 16QAM | 22.9 | 17.15 |
| 5 | 26715 | 1 | #Mid | 16QAM | 22.98 | 17.23 |
| 5 | 26715 | 1 | #Max | 16QAM | 22.91 | 17.16 |
| 5 | 26715 | 12 | #0 | 16QAM | 21.66 | 15.91 |
| 5 | 26715 | 12 | #Mid | 16QAM | 21.65 | 15.90 |
| 5 | 26715 | 12 | #Max | 16QAM | 21.62 | 15.87 |
| 5 | 26715 | 25 | #0 | 16QAM | 21.72 | 15.97 |
| 5 | 26740 | 1 | #0 | QPSK | 23.62 | 17.87 |
| 5 | 26740 | 1 | #Mid | QPSK | 23.72 | 17.97 |
| 5 | 26740 | 1 | #Max | QPSK | 23.64 | 17.89 |
| 5 | 26740 | 12 | #0 | QPSK | 22.71 | 16.96 |
| 5 | 26740 | 12 | #Mid | QPSK | 22.73 | 16.98 |
| 5 | 26740 | 12 | #Max | QPSK | 22.69 | 16.94 |
| 5 | 26740 | 25 | #0 | QPSK | 22.74 | 16.99 |
| 5 | 26740 | 1 | #0 | 16QAM | 22.81 | 17.06 |
| 5 | 26740 | 1 | #Mid | 16QAM | 22.92 | 17.17 |
| 5 | 26740 | 1 | #Max | 16QAM | 22.82 | 17.07 |
| 5 | 26740 | 12 | #0 | 16QAM | 21.62 | 15.87 |
| 5 | 26740 | 12 | #Mid | 16QAM | 21.66 | 15.91 |
| 5 | 26740 | 12 | #Max | 16QAM | 21.63 | 15.88 |
| 5 | 26740 | 25 | #0 | 16QAM | 21.69 | 15.94 |
| 5 | 26765 | 1 | #0 | QPSK | 23.57 | 17.82 |
| 5 | 26765 | 1 | #Mid | QPSK | 23.7 | 17.95 |
| 5 | 26765 | 1 | #Max | QPSK | 23.57 | 17.82 |
| 5 | 26765 | 12 | #0 | QPSK | 22.72 | 16.97 |
| 5 | 26765 | 12 | #Mid | QPSK | 22.7 | 16.95 |
| 5 | 26765 | 12 | #Max | QPSK | 22.68 | 16.93 |
| 5 | 26765 | 25 | #0 | QPSK | 22.73 | 16.98 |
| 5 | 26765 | 1 | #0 | 16QAM | 22.86 | 17.11 |
| 5 | 26765 | 1 | #Mid | 16QAM | 23.02 | 17.27 |
| 5 | 26765 | 1 | #Max | 16QAM | 22.9 | 17.15 |
| 5 | 26765 | 12 | #0 | 16QAM | 21.72 | 15.97 |



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|-----|-------|----|------|-------|-------|-------|
| 5 | 26765 | 12 | #Mid | 16QAM | 21.68 | 15.93 |
| 5 | 26765 | 12 | #Max | 16QAM | 21.7 | 15.95 |
| 5 | 26765 | 25 | #0 | 16QAM | 21.72 | 15.97 |
| 10 | 26740 | 1 | #0 | QPSK | 23.71 | 17.96 |
| 10 | 26740 | 1 | #Mid | QPSK | 23.81 | 18.06 |
| 10 | 26740 | 1 | #Max | QPSK | 23.69 | 17.94 |
| 10 | 26740 | 25 | #0 | QPSK | 22.77 | 17.02 |
| 10 | 26740 | 25 | #Mid | QPSK | 22.76 | 17.01 |
| 10 | 26740 | 25 | #Max | QPSK | 22.73 | 16.98 |
| 10 | 26740 | 50 | #0 | QPSK | 22.74 | 16.99 |
| 10 | 26740 | 1 | #0 | 16QAM | 22.94 | 17.19 |
| 10 | 26740 | 1 | #Mid | 16QAM | 23.07 | 17.32 |
| 10 | 26740 | 1 | #Max | 16QAM | 22.93 | 17.18 |
| 10 | 26740 | 25 | #0 | 16QAM | 21.82 | 16.07 |
| 10 | 26740 | 25 | #Mid | 16QAM | 21.82 | 16.07 |
| 10 | 26740 | 25 | #Max | 16QAM | 21.75 | 16.00 |
| 10 | 26740 | 50 | #0 | 16QAM | 21.72 | 15.97 |
| 1.4 | 26697 | 1 | #0 | 64QAM | 21.87 | 16.12 |
| 1.4 | 26697 | 1 | #Mid | 64QAM | 22.08 | 16.33 |
| 1.4 | 26697 | 1 | #Max | 64QAM | 21.85 | 16.10 |
| 1.4 | 26697 | 3 | #0 | 64QAM | 22.02 | 16.27 |
| 1.4 | 26697 | 3 | #Mid | 64QAM | 21.99 | 16.24 |
| 1.4 | 26697 | 3 | #Max | 64QAM | 22.06 | 16.31 |
| 1.4 | 26697 | 6 | #0 | 64QAM | 20.98 | 15.23 |
| 1.4 | 26740 | 1 | #0 | 64QAM | 21.91 | 16.16 |
| 1.4 | 26740 | 1 | #Mid | 64QAM | 22.14 | 16.39 |
| 1.4 | 26740 | 1 | #Max | 64QAM | 21.94 | 16.19 |
| 1.4 | 26740 | 3 | #0 | 64QAM | 21.82 | 16.07 |
| 1.4 | 26740 | 3 | #Mid | 64QAM | 21.8 | 16.05 |
| 1.4 | 26740 | 3 | #Max | 64QAM | 21.83 | 16.08 |
| 1.4 | 26740 | 6 | #0 | 64QAM | 20.94 | 15.19 |
| 1.4 | 26783 | 1 | #0 | 64QAM | 21.75 | 16.00 |
| 1.4 | 26783 | 1 | #Mid | 64QAM | 21.93 | 16.18 |
| 1.4 | 26783 | 1 | #Max | 64QAM | 21.72 | 15.97 |
| 1.4 | 26783 | 3 | #0 | 64QAM | 21.82 | 16.07 |
| 1.4 | 26783 | 3 | #Mid | 64QAM | 21.8 | 16.05 |
| 1.4 | 26783 | 3 | #Max | 64QAM | 21.8 | 16.05 |
| 1.4 | 26783 | 6 | #0 | 64QAM | 20.98 | 15.23 |
| 3 | 26705 | 1 | #0 | 64QAM | 22.1 | 16.35 |
| 3 | 26705 | 1 | #Mid | 64QAM | 21.95 | 16.20 |
| 3 | 26705 | 1 | #Max | 64QAM | 22.02 | 16.27 |
| 3 | 26705 | 8 | #0 | 64QAM | 20.88 | 15.13 |
| 3 | 26705 | 8 | #Mid | 64QAM | 20.88 | 15.13 |



| | | | | | | |
|----|-------|----|------|-------|-------|-------|
| 3 | 26705 | 8 | #Max | 64QAM | 20.87 | 15.12 |
| 3 | 26705 | 15 | #0 | 64QAM | 20.88 | 15.13 |
| 3 | 26740 | 1 | #0 | 64QAM | 21.71 | 15.96 |
| 3 | 26740 | 1 | #Mid | 64QAM | 21.71 | 15.96 |
| 3 | 26740 | 1 | #Max | 64QAM | 21.74 | 15.99 |
| 3 | 26740 | 8 | #0 | 64QAM | 20.86 | 15.11 |
| 3 | 26740 | 8 | #Mid | 64QAM | 20.86 | 15.11 |
| 3 | 26740 | 8 | #Max | 64QAM | 20.86 | 15.11 |
| 3 | 26740 | 15 | #0 | 64QAM | 20.97 | 15.22 |
| 3 | 26775 | 1 | #0 | 64QAM | 22.09 | 16.34 |
| 3 | 26775 | 1 | #Mid | 64QAM | 22.06 | 16.31 |
| 3 | 26775 | 1 | #Max | 64QAM | 22.12 | 16.37 |
| 3 | 26775 | 8 | #0 | 64QAM | 20.86 | 15.11 |
| 3 | 26775 | 8 | #Mid | 64QAM | 20.87 | 15.12 |
| 3 | 26775 | 8 | #Max | 64QAM | 20.86 | 15.11 |
| 3 | 26775 | 15 | #0 | 64QAM | 20.94 | 15.19 |
| 5 | 26715 | 1 | #0 | 64QAM | 22.07 | 16.32 |
| 5 | 26715 | 1 | #Mid | 64QAM | 22.2 | 16.45 |
| 5 | 26715 | 1 | #Max | 64QAM | 22.09 | 16.34 |
| 5 | 26715 | 12 | #0 | 64QAM | 20.84 | 15.09 |
| 5 | 26715 | 12 | #Mid | 64QAM | 20.85 | 15.10 |
| 5 | 26715 | 12 | #Max | 64QAM | 20.81 | 15.06 |
| 5 | 26715 | 25 | #0 | 64QAM | 20.99 | 15.24 |
| 5 | 26740 | 1 | #0 | 64QAM | 21.92 | 16.17 |
| 5 | 26740 | 1 | #Mid | 64QAM | 22.02 | 16.27 |
| 5 | 26740 | 1 | #Max | 64QAM | 21.94 | 16.19 |
| 5 | 26740 | 12 | #0 | 64QAM | 20.74 | 14.99 |
| 5 | 26740 | 12 | #Mid | 64QAM | 20.76 | 15.01 |
| 5 | 26740 | 12 | #Max | 64QAM | 20.75 | 15.00 |
| 5 | 26740 | 25 | #0 | 64QAM | 20.97 | 15.22 |
| 5 | 26765 | 1 | #0 | 64QAM | 21.97 | 16.22 |
| 5 | 26765 | 1 | #Mid | 64QAM | 22.09 | 16.34 |
| 5 | 26765 | 1 | #Max | 64QAM | 22 | 16.25 |
| 5 | 26765 | 12 | #0 | 64QAM | 20.84 | 15.09 |
| 5 | 26765 | 12 | #Mid | 64QAM | 20.85 | 15.10 |
| 5 | 26765 | 12 | #Max | 64QAM | 20.8 | 15.05 |
| 5 | 26765 | 25 | #0 | 64QAM | 20.98 | 15.23 |
| 10 | 26740 | 1 | #0 | 64QAM | 22.1 | 16.35 |
| 10 | 26740 | 1 | #Mid | 64QAM | 22.19 | 16.44 |
| 10 | 26740 | 1 | #Max | 64QAM | 22.08 | 16.33 |
| 10 | 26740 | 25 | #0 | 64QAM | 20.97 | 15.22 |
| 10 | 26740 | 25 | #Mid | 64QAM | 20.94 | 15.19 |
| 10 | 26740 | 25 | #Max | 64QAM | 20.94 | 15.19 |



| | | | | | | |
|----|-------|----|----|-------|-------|-------|
| 10 | 26740 | 50 | #0 | 64QAM | 21.01 | 15.26 |
|----|-------|----|----|-------|-------|-------|

| LTE Band 26 Upper Antenna | | | | | | |
|---------------------------|------------|---------|-------------|------------|-------------|----------|
| Bandwidth (MHz) | UL Channel | RB Size | RB Position | Modulation | Power (dBm) | ERP(dBm) |
| 1.4 | 26697 | 1 | #0 | QPSK | 23.13 | 18.08 |
| 1.4 | 26697 | 1 | #Mid | QPSK | 23.45 | 18.40 |
| 1.4 | 26697 | 1 | #Max | QPSK | 23.13 | 18.08 |
| 1.4 | 26697 | 3 | #0 | QPSK | 23.21 | 18.16 |
| 1.4 | 26697 | 3 | #Mid | QPSK | 23.18 | 18.13 |
| 1.4 | 26697 | 3 | #Max | QPSK | 23.16 | 18.11 |
| 1.4 | 26697 | 6 | #0 | QPSK | 22.16 | 17.11 |
| 1.4 | 26697 | 1 | #0 | 16QAM | 22.04 | 16.99 |
| 1.4 | 26697 | 1 | #Mid | 16QAM | 22.13 | 17.08 |
| 1.4 | 26697 | 1 | #Max | 16QAM | 22.01 | 16.96 |
| 1.4 | 26697 | 3 | #0 | 16QAM | 22.11 | 17.06 |
| 1.4 | 26697 | 3 | #Mid | 16QAM | 22.11 | 17.06 |
| 1.4 | 26697 | 3 | #Max | 16QAM | 22.10 | 17.05 |
| 1.4 | 26697 | 6 | #0 | 16QAM | 21.17 | 16.12 |
| 1.4 | 26740 | 1 | #0 | QPSK | 23.18 | 18.13 |
| 1.4 | 26740 | 1 | #Mid | QPSK | 23.33 | 18.28 |
| 1.4 | 26740 | 1 | #Max | QPSK | 23.16 | 18.11 |
| 1.4 | 26740 | 3 | #0 | QPSK | 23.15 | 18.10 |
| 1.4 | 26740 | 3 | #Mid | QPSK | 23.15 | 18.10 |
| 1.4 | 26740 | 3 | #Max | QPSK | 23.14 | 18.09 |
| 1.4 | 26740 | 6 | #0 | QPSK | 22.09 | 17.04 |
| 1.4 | 26740 | 1 | #0 | 16QAM | 22.08 | 17.03 |
| 1.4 | 26740 | 1 | #Mid | 16QAM | 22.28 | 17.23 |
| 1.4 | 26740 | 1 | #Max | 16QAM | 22.09 | 17.04 |
| 1.4 | 26740 | 3 | #0 | 16QAM | 22.23 | 17.18 |
| 1.4 | 26740 | 3 | #Mid | 16QAM | 22.25 | 17.20 |
| 1.4 | 26740 | 3 | #Max | 16QAM | 22.27 | 17.22 |
| 1.4 | 26740 | 6 | #0 | 16QAM | 21.21 | 16.16 |
| 1.4 | 26783 | 1 | #0 | QPSK | 23.09 | 18.04 |
| 1.4 | 26783 | 1 | #Mid | QPSK | 23.28 | 18.23 |
| 1.4 | 26783 | 1 | #Max | QPSK | 23.09 | 18.04 |
| 1.4 | 26783 | 3 | #0 | QPSK | 23.14 | 18.09 |
| 1.4 | 26783 | 3 | #Mid | QPSK | 23.11 | 18.06 |
| 1.4 | 26783 | 3 | #Max | QPSK | 23.09 | 18.04 |
| 1.4 | 26783 | 6 | #0 | QPSK | 22.11 | 17.06 |
| 1.4 | 26783 | 1 | #0 | 16QAM | 22.21 | 17.16 |
| 1.4 | 26783 | 1 | #Mid | 16QAM | 22.46 | 17.41 |
| 1.4 | 26783 | 1 | #Max | 16QAM | 22.24 | 17.19 |
| 1.4 | 26783 | 3 | #0 | 16QAM | 22.09 | 17.04 |



| | | | | | | |
|-----|-------|----|------|-------|-------|-------|
| 1.4 | 26783 | 3 | #Mid | 16QAM | 22.10 | 17.05 |
| 1.4 | 26783 | 3 | #Max | 16QAM | 22.14 | 17.09 |
| 1.4 | 26783 | 6 | #0 | 16QAM | 21.13 | 16.08 |
| 3 | 26705 | 1 | #0 | QPSK | 23.20 | 18.15 |
| 3 | 26705 | 1 | #Mid | QPSK | 23.22 | 18.17 |
| 3 | 26705 | 1 | #Max | QPSK | 23.20 | 18.15 |
| 3 | 26705 | 8 | #0 | QPSK | 22.14 | 17.09 |
| 3 | 26705 | 8 | #Mid | QPSK | 22.15 | 17.10 |
| 3 | 26705 | 8 | #Max | QPSK | 22.16 | 17.11 |
| 3 | 26705 | 15 | #0 | QPSK | 22.09 | 17.04 |
| 3 | 26705 | 1 | #0 | 16QAM | 22.04 | 16.99 |
| 3 | 26705 | 1 | #Mid | 16QAM | 22.04 | 16.99 |
| 3 | 26705 | 1 | #Max | 16QAM | 22.00 | 16.95 |
| 3 | 26705 | 8 | #0 | 16QAM | 21.17 | 16.12 |
| 3 | 26705 | 8 | #Mid | 16QAM | 21.17 | 16.12 |
| 3 | 26705 | 8 | #Max | 16QAM | 21.21 | 16.16 |
| 3 | 26705 | 15 | #0 | 16QAM | 21.17 | 16.12 |
| 3 | 26740 | 1 | #0 | QPSK | 23.16 | 18.11 |
| 3 | 26740 | 1 | #Mid | QPSK | 23.09 | 18.04 |
| 3 | 26740 | 1 | #Max | QPSK | 23.10 | 18.05 |
| 3 | 26740 | 8 | #0 | QPSK | 22.11 | 17.06 |
| 3 | 26740 | 8 | #Mid | QPSK | 22.11 | 17.06 |
| 3 | 26740 | 8 | #Max | QPSK | 22.14 | 17.09 |
| 3 | 26740 | 15 | #0 | QPSK | 22.13 | 17.08 |
| 3 | 26740 | 1 | #0 | 16QAM | 22.43 | 17.38 |
| 3 | 26740 | 1 | #Mid | 16QAM | 22.33 | 17.28 |
| 3 | 26740 | 1 | #Max | 16QAM | 22.39 | 17.34 |
| 3 | 26740 | 8 | #0 | 16QAM | 21.16 | 16.11 |
| 3 | 26740 | 8 | #Mid | 16QAM | 21.16 | 16.11 |
| 3 | 26740 | 8 | #Max | 16QAM | 21.18 | 16.13 |
| 3 | 26740 | 15 | #0 | 16QAM | 21.11 | 16.06 |
| 3 | 26775 | 1 | #0 | QPSK | 23.14 | 18.09 |
| 3 | 26775 | 1 | #Mid | QPSK | 23.13 | 18.08 |
| 3 | 26775 | 1 | #Max | QPSK | 23.14 | 18.09 |
| 3 | 26775 | 8 | #0 | QPSK | 22.10 | 17.05 |
| 3 | 26775 | 8 | #Mid | QPSK | 22.11 | 17.06 |
| 3 | 26775 | 8 | #Max | QPSK | 22.08 | 17.03 |
| 3 | 26775 | 15 | #0 | QPSK | 22.04 | 16.99 |
| 3 | 26775 | 1 | #0 | 16QAM | 22.28 | 17.23 |
| 3 | 26775 | 1 | #Mid | 16QAM | 22.25 | 17.20 |
| 3 | 26775 | 1 | #Max | 16QAM | 22.22 | 17.17 |
| 3 | 26775 | 8 | #0 | 16QAM | 21.14 | 16.09 |
| 3 | 26775 | 8 | #Mid | 16QAM | 21.16 | 16.11 |



| | | | | | | |
|---|-------|----|------|-------|-------|-------|
| 3 | 26775 | 8 | #Max | 16QAM | 21.11 | 16.06 |
| 3 | 26775 | 15 | #0 | 16QAM | 21.03 | 15.98 |
| 5 | 26715 | 1 | #0 | QPSK | 23.06 | 18.01 |
| 5 | 26715 | 1 | #Mid | QPSK | 23.18 | 18.13 |
| 5 | 26715 | 1 | #Max | QPSK | 23.04 | 17.99 |
| 5 | 26715 | 12 | #0 | QPSK | 22.06 | 17.01 |
| 5 | 26715 | 12 | #Mid | QPSK | 22.05 | 17.00 |
| 5 | 26715 | 12 | #Max | QPSK | 22.14 | 17.09 |
| 5 | 26715 | 25 | #0 | QPSK | 22.11 | 17.06 |
| 5 | 26715 | 1 | #0 | 16QAM | 22.37 | 17.32 |
| 5 | 26715 | 1 | #Mid | 16QAM | 22.46 | 17.41 |
| 5 | 26715 | 1 | #Max | 16QAM | 22.33 | 17.28 |
| 5 | 26715 | 12 | #0 | 16QAM | 21.04 | 15.99 |
| 5 | 26715 | 12 | #Mid | 16QAM | 21.02 | 15.97 |
| 5 | 26715 | 12 | #Max | 16QAM | 21.12 | 16.07 |
| 5 | 26715 | 25 | #0 | 16QAM | 21.18 | 16.13 |
| 5 | 26740 | 1 | #0 | QPSK | 23.03 | 17.98 |
| 5 | 26740 | 1 | #Mid | QPSK | 23.18 | 18.13 |
| 5 | 26740 | 1 | #Max | QPSK | 22.99 | 17.94 |
| 5 | 26740 | 12 | #0 | QPSK | 22.09 | 17.04 |
| 5 | 26740 | 12 | #Mid | QPSK | 22.06 | 17.01 |
| 5 | 26740 | 12 | #Max | QPSK | 22.13 | 17.08 |
| 5 | 26740 | 25 | #0 | QPSK | 22.13 | 17.08 |
| 5 | 26740 | 1 | #0 | 16QAM | 22.18 | 17.13 |
| 5 | 26740 | 1 | #Mid | 16QAM | 22.19 | 17.14 |
| 5 | 26740 | 1 | #Max | 16QAM | 22.11 | 17.06 |
| 5 | 26740 | 12 | #0 | 16QAM | 21.02 | 15.97 |
| 5 | 26740 | 12 | #Mid | 16QAM | 21.02 | 15.97 |
| 5 | 26740 | 12 | #Max | 16QAM | 21.08 | 16.03 |
| 5 | 26740 | 25 | #0 | 16QAM | 21.17 | 16.12 |
| 5 | 26765 | 1 | #0 | QPSK | 22.86 | 17.81 |
| 5 | 26765 | 1 | #Mid | QPSK | 23.01 | 17.96 |
| 5 | 26765 | 1 | #Max | QPSK | 22.72 | 17.67 |
| 5 | 26765 | 12 | #0 | QPSK | 21.98 | 16.93 |
| 5 | 26765 | 12 | #Mid | QPSK | 22.09 | 17.04 |
| 5 | 26765 | 12 | #Max | QPSK | 21.95 | 16.90 |
| 5 | 26765 | 25 | #0 | QPSK | 21.96 | 16.91 |
| 5 | 26765 | 1 | #0 | 16QAM | 22.12 | 17.07 |
| 5 | 26765 | 1 | #Mid | 16QAM | 22.31 | 17.26 |
| 5 | 26765 | 1 | #Max | 16QAM | 22.00 | 16.95 |
| 5 | 26765 | 12 | #0 | 16QAM | 21.05 | 16.00 |
| 5 | 26765 | 12 | #Mid | 16QAM | 21.05 | 16.00 |
| 5 | 26765 | 12 | #Max | 16QAM | 21.06 | 16.01 |



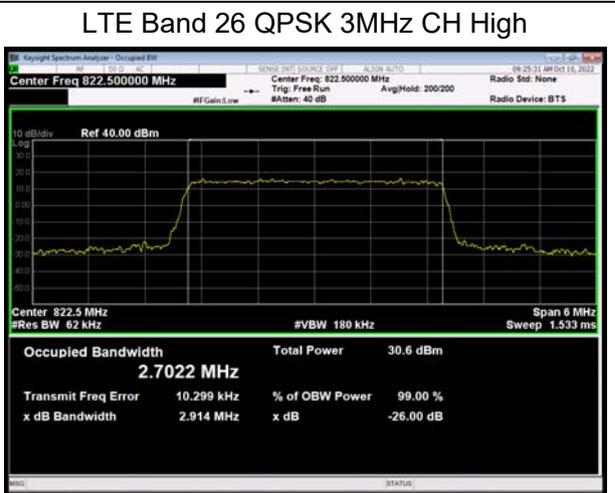
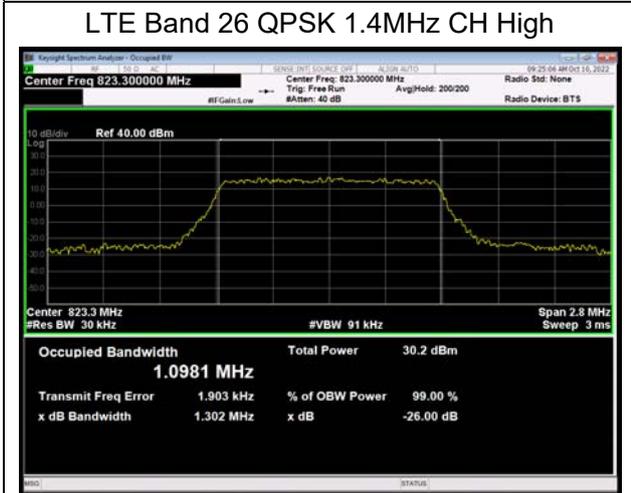
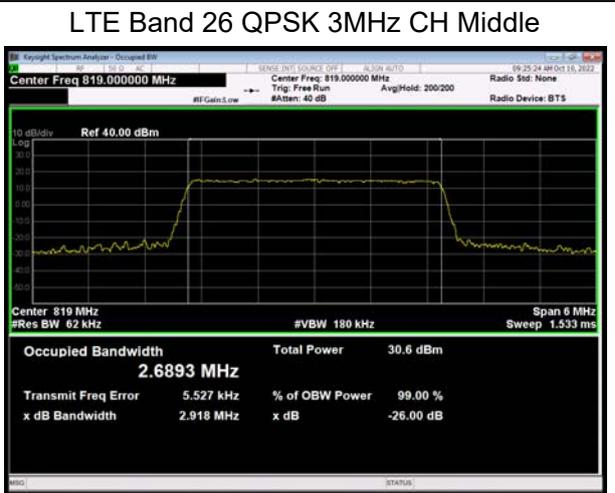
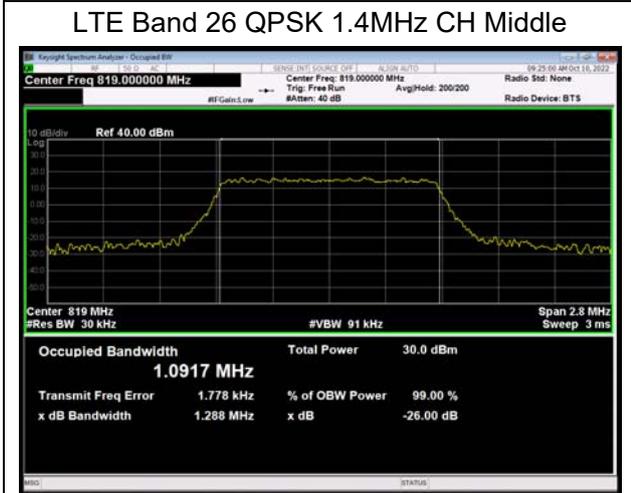
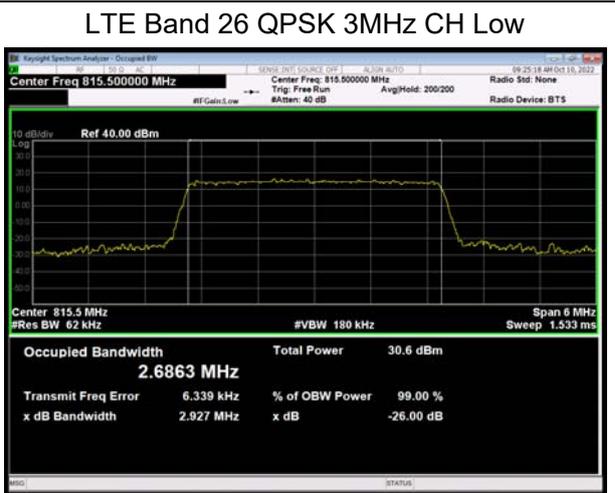
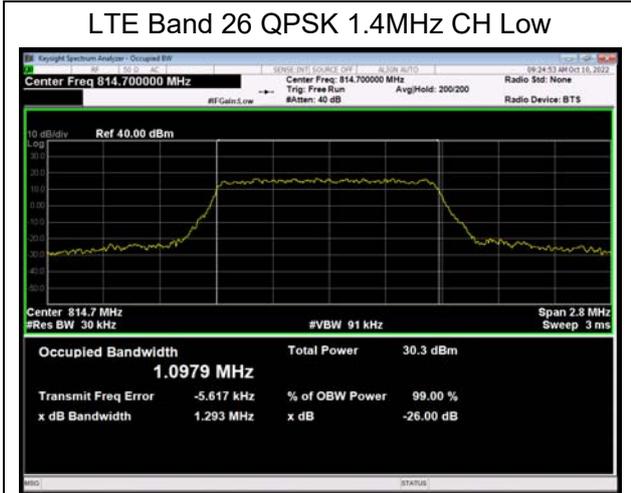
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|-----|-------|----|------|-------|-------|-------|
| 5 | 26765 | 25 | #0 | 16QAM | 21.03 | 15.98 |
| 10 | 26740 | 1 | #0 | QPSK | 23.15 | 18.10 |
| 10 | 26740 | 1 | #Mid | QPSK | 23.34 | 18.29 |
| 10 | 26740 | 1 | #Max | QPSK | 22.93 | 17.88 |
| 10 | 26740 | 25 | #0 | QPSK | 21.75 | 16.70 |
| 10 | 26740 | 25 | #Mid | QPSK | 21.79 | 16.74 |
| 10 | 26740 | 25 | #Max | QPSK | 22.07 | 17.02 |
| 10 | 26740 | 50 | #0 | QPSK | 21.89 | 16.84 |
| 10 | 26740 | 1 | #0 | 16QAM | 21.97 | 16.92 |
| 10 | 26740 | 1 | #Mid | 16QAM | 22.14 | 17.09 |
| 10 | 26740 | 1 | #Max | 16QAM | 21.89 | 16.84 |
| 10 | 26740 | 25 | #0 | 16QAM | 21.03 | 15.98 |
| 10 | 26740 | 25 | #Mid | 16QAM | 21.07 | 16.02 |
| 10 | 26740 | 25 | #Max | 16QAM | 21.02 | 15.97 |
| 10 | 26740 | 50 | #0 | 16QAM | 21.07 | 16.02 |
| 1.4 | 26697 | 1 | #0 | 64QAM | 21.11 | 16.06 |
| 1.4 | 26697 | 1 | #Mid | 64QAM | 21.29 | 16.24 |
| 1.4 | 26697 | 1 | #Max | 64QAM | 21.09 | 16.04 |
| 1.4 | 26697 | 3 | #0 | 64QAM | 21.24 | 16.19 |
| 1.4 | 26697 | 3 | #Mid | 64QAM | 21.23 | 16.18 |
| 1.4 | 26697 | 3 | #Max | 64QAM | 21.21 | 16.16 |
| 1.4 | 26697 | 6 | #0 | 64QAM | 20.48 | 15.43 |
| 1.4 | 26740 | 1 | #0 | 64QAM | 21.21 | 16.16 |
| 1.4 | 26740 | 1 | #Mid | 64QAM | 21.44 | 16.39 |
| 1.4 | 26740 | 1 | #Max | 64QAM | 21.21 | 16.16 |
| 1.4 | 26740 | 3 | #0 | 64QAM | 21.36 | 16.31 |
| 1.4 | 26740 | 3 | #Mid | 64QAM | 21.36 | 16.31 |
| 1.4 | 26740 | 3 | #Max | 64QAM | 21.39 | 16.34 |
| 1.4 | 26740 | 6 | #0 | 64QAM | 20.54 | 15.49 |
| 1.4 | 26783 | 1 | #0 | 64QAM | 21.32 | 16.27 |
| 1.4 | 26783 | 1 | #Mid | 64QAM | 21.57 | 16.52 |
| 1.4 | 26783 | 1 | #Max | 64QAM | 21.36 | 16.31 |
| 1.4 | 26783 | 3 | #0 | 64QAM | 21.25 | 16.20 |
| 1.4 | 26783 | 3 | #Mid | 64QAM | 21.24 | 16.19 |
| 1.4 | 26783 | 3 | #Max | 64QAM | 21.27 | 16.22 |
| 1.4 | 26783 | 6 | #0 | 64QAM | 20.45 | 15.40 |
| 3 | 26705 | 1 | #0 | 64QAM | 21.42 | 16.37 |
| 3 | 26705 | 1 | #Mid | 64QAM | 21.45 | 16.40 |
| 3 | 26705 | 1 | #Max | 64QAM | 21.36 | 16.31 |
| 3 | 26705 | 8 | #0 | 64QAM | 20.45 | 15.40 |
| 3 | 26705 | 8 | #Mid | 64QAM | 20.45 | 15.40 |
| 3 | 26705 | 8 | #Max | 64QAM | 20.50 | 15.45 |
| 3 | 26705 | 15 | #0 | 64QAM | 20.37 | 15.32 |

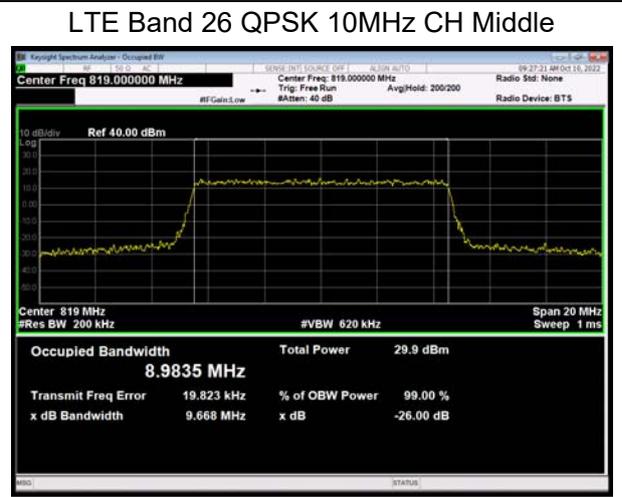
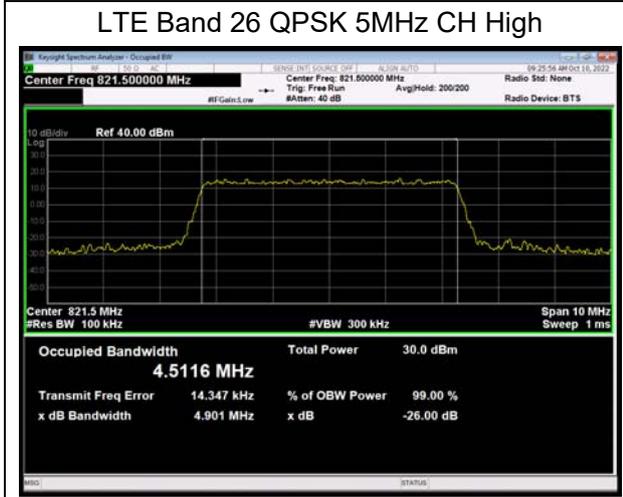
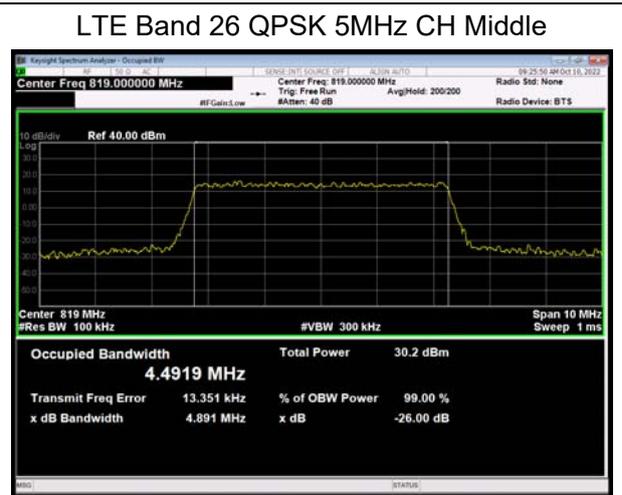
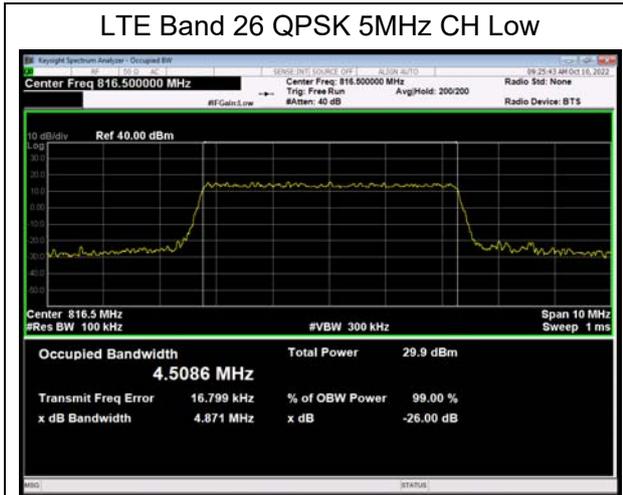


| | | | | | | |
|----|-------|----|------|-------|-------|-------|
| 3 | 26740 | 1 | #0 | 64QAM | 21.13 | 16.08 |
| 3 | 26740 | 1 | #Mid | 64QAM | 21.16 | 16.11 |
| 3 | 26740 | 1 | #Max | 64QAM | 21.14 | 16.09 |
| 3 | 26740 | 8 | #0 | 64QAM | 20.48 | 15.43 |
| 3 | 26740 | 8 | #Mid | 64QAM | 20.46 | 15.41 |
| 3 | 26740 | 8 | #Max | 64QAM | 20.45 | 15.40 |
| 3 | 26740 | 15 | #0 | 64QAM | 20.46 | 15.41 |
| 3 | 26775 | 1 | #0 | 64QAM | 21.51 | 16.46 |
| 3 | 26775 | 1 | #Mid | 64QAM | 21.35 | 16.30 |
| 3 | 26775 | 1 | #Max | 64QAM | 21.45 | 16.40 |
| 3 | 26775 | 8 | #0 | 64QAM | 20.36 | 15.31 |
| 3 | 26775 | 8 | #Mid | 64QAM | 20.40 | 15.35 |
| 3 | 26775 | 8 | #Max | 64QAM | 20.38 | 15.33 |
| 3 | 26775 | 15 | #0 | 64QAM | 20.33 | 15.28 |
| 5 | 26715 | 1 | #0 | 64QAM | 21.31 | 16.26 |
| 5 | 26715 | 1 | #Mid | 64QAM | 21.27 | 16.22 |
| 5 | 26715 | 1 | #Max | 64QAM | 20.96 | 15.91 |
| 5 | 26715 | 12 | #0 | 64QAM | 20.08 | 15.03 |
| 5 | 26715 | 12 | #Mid | 64QAM | 20.11 | 15.06 |
| 5 | 26715 | 12 | #Max | 64QAM | 20.17 | 15.12 |
| 5 | 26715 | 25 | #0 | 64QAM | 20.26 | 15.21 |
| 5 | 26740 | 1 | #0 | 64QAM | 20.88 | 15.83 |
| 5 | 26740 | 1 | #Mid | 64QAM | 20.98 | 15.93 |
| 5 | 26740 | 1 | #Max | 64QAM | 20.83 | 15.78 |
| 5 | 26740 | 12 | #0 | 64QAM | 20.12 | 15.07 |
| 5 | 26740 | 12 | #Mid | 64QAM | 20.15 | 15.10 |
| 5 | 26740 | 12 | #Max | 64QAM | 20.23 | 15.18 |
| 5 | 26740 | 25 | #0 | 64QAM | 20.25 | 15.20 |
| 5 | 26765 | 1 | #0 | 64QAM | 20.85 | 15.80 |
| 5 | 26765 | 1 | #Mid | 64QAM | 20.99 | 15.94 |
| 5 | 26765 | 1 | #Max | 64QAM | 20.85 | 15.80 |
| 5 | 26765 | 12 | #0 | 64QAM | 20.14 | 15.09 |
| 5 | 26765 | 12 | #Mid | 64QAM | 20.18 | 15.13 |
| 5 | 26765 | 12 | #Max | 64QAM | 20.20 | 15.15 |
| 5 | 26765 | 25 | #0 | 64QAM | 20.27 | 15.22 |
| 10 | 26740 | 1 | #0 | 64QAM | 21.41 | 16.36 |
| 10 | 26740 | 1 | #Mid | 64QAM | 21.59 | 16.54 |
| 10 | 26740 | 1 | #Max | 64QAM | 21.41 | 16.36 |
| 10 | 26740 | 25 | #0 | 64QAM | 20.44 | 15.39 |
| 10 | 26740 | 25 | #Mid | 64QAM | 20.44 | 15.39 |
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| 10 | 26740 | 50 | #0 | 64QAM | 20.50 | 15.45 |

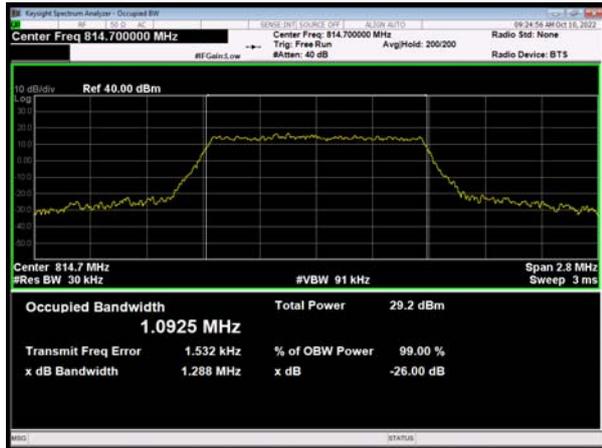
6.2. Occupied Bandwidth

| LTE Band 26 | | | | | | | |
|-------------|------------|-----------------|---------|-----------------|--------------------------|-----------------------|--------|
| RB | Modulation | Bandwidth (MHz) | Channel | Frequency (MHz) | 99% Power Bandwidth(MHz) | -26dBc Bandwidth(MHz) | |
| 100% | QPSK | 1.4 | 26697 | 814.7 | 1.0979 | 1.2930 | |
| | | | 26740 | 819 | 1.0917 | 1.2880 | |
| | | | 26783 | 823.3 | 1.0981 | 1.3020 | |
| | | 3 | 26705 | 815.5 | 2.6863 | 2.9270 | |
| | | | 26740 | 819 | 2.6893 | 2.9180 | |
| | | | 26775 | 822.5 | 2.7022 | 2.9140 | |
| | | 5 | 26715 | 816.5 | 4.5086 | 4.8710 | |
| | | | 26740 | 819 | 4.4919 | 4.8910 | |
| | | | 26765 | 821.5 | 4.5116 | 4.9010 | |
| | | 10 | 26740 | 819 | 8.9835 | 9.6680 | |
| | | 16QAM | 1.4 | 26697 | 814.7 | 1.0925 | 1.2880 |
| | | | | 26740 | 819 | 1.0970 | 1.2920 |
| | 26783 | | | 823.3 | 1.0937 | 1.2760 | |
| | 3 | | 26705 | 815.5 | 2.6914 | 2.9250 | |
| | | | 26740 | 819 | 2.6836 | 2.9410 | |
| | | | 26775 | 822.5 | 2.6909 | 2.9210 | |
| | 5 | | 26715 | 816.5 | 4.5096 | 4.8580 | |
| | | | 26740 | 819 | 4.5064 | 4.8900 | |
| | | | 26765 | 821.5 | 4.5013 | 4.9270 | |
| | 10 | | 26740 | 819 | 8.9605 | 9.6430 | |
| | 64QAM | | 1.4 | 26697 | 814.7 | 1.0996 | 1.2910 |
| | | | | 26740 | 819 | 1.0998 | 1.2770 |
| | | 26783 | | 823.3 | 1.0900 | 1.2870 | |
| | | 3 | 26705 | 815.5 | 2.6823 | 2.9280 | |
| | | | 26740 | 819 | 2.6906 | 2.9240 | |
| | | | 26775 | 822.5 | 2.6796 | 2.9330 | |
| | | 5 | 26715 | 816.5 | 4.5082 | 4.9380 | |
| | | | 26740 | 819 | 4.5113 | 4.9590 | |
| | | | 26765 | 821.5 | 4.5012 | 4.9500 | |
| | | 10 | 26740 | 819 | 8.9971 | 9.6970 | |

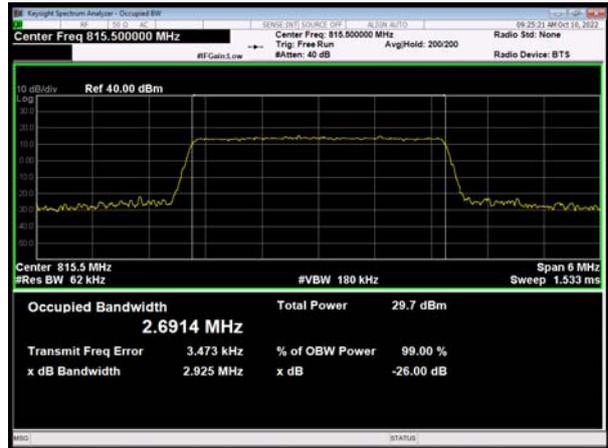




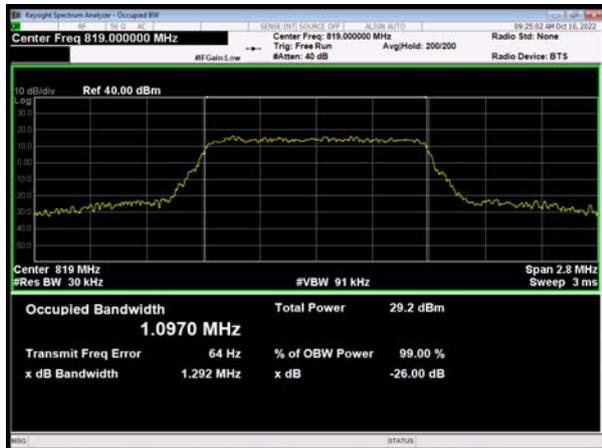
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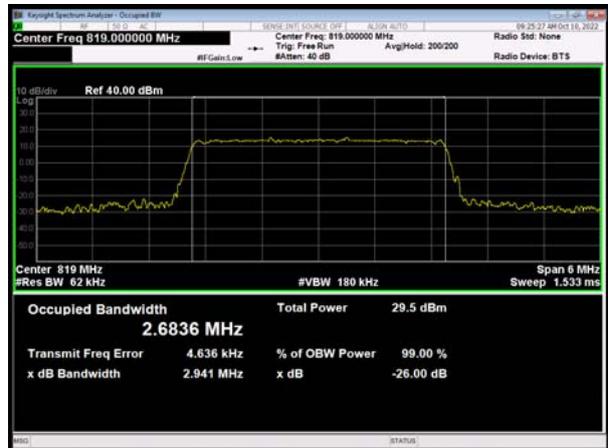
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LTE Band 26 16QAM 1.4MHz CH Middle



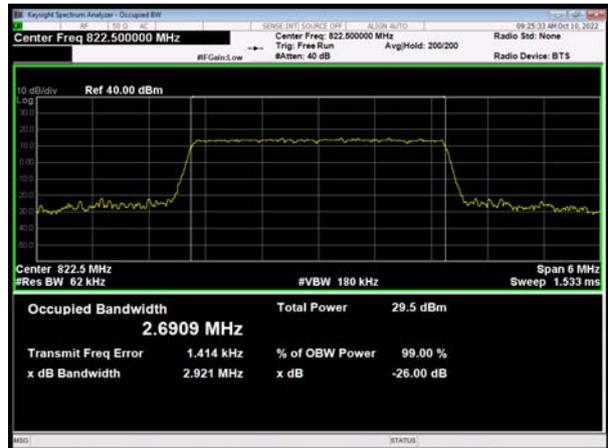
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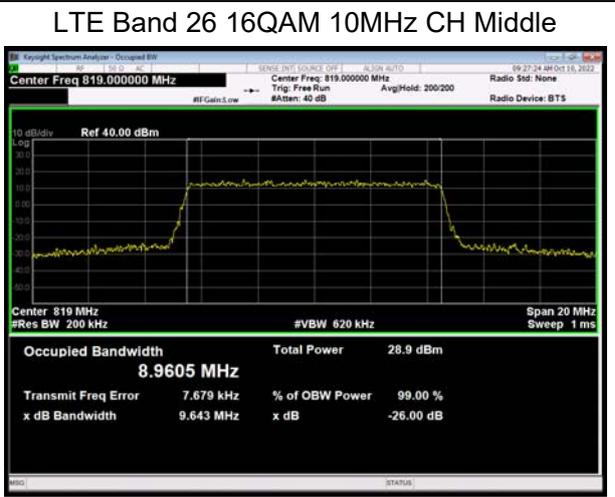
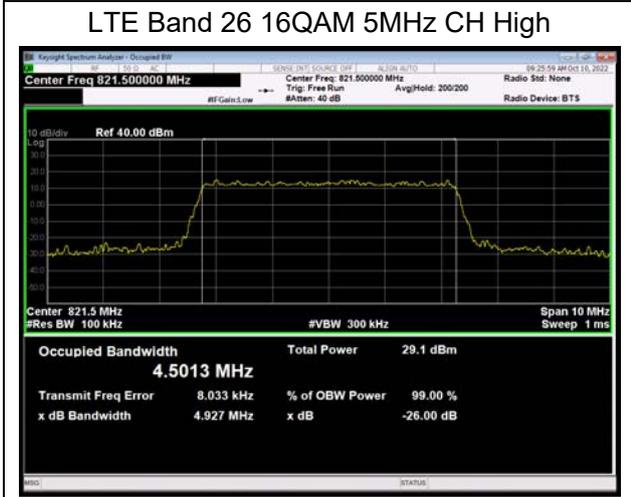
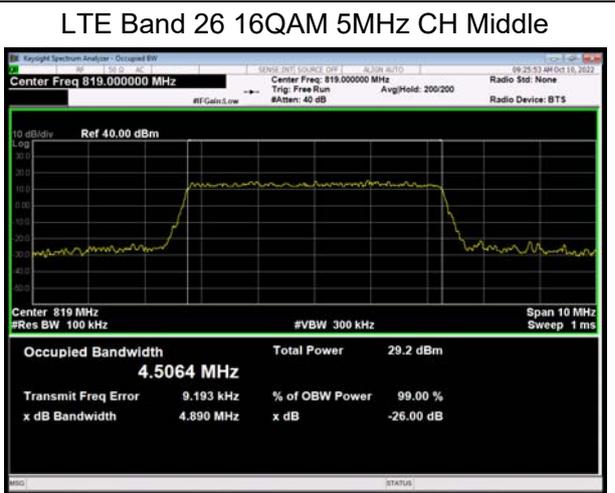
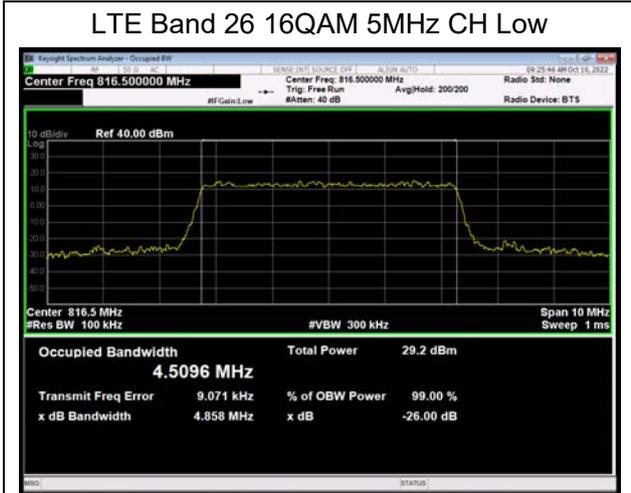


LTE Band 26 16QAM 1.4MHz CH High

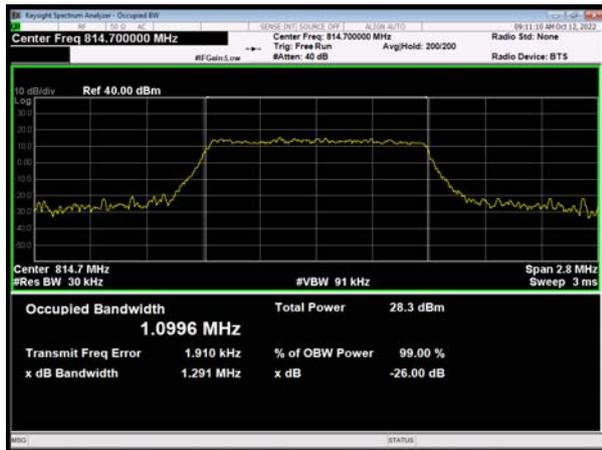


LTE Band 26 16QAM 3MHz CH High





LTE Band 26 64QAM 1.4MHz CH Low



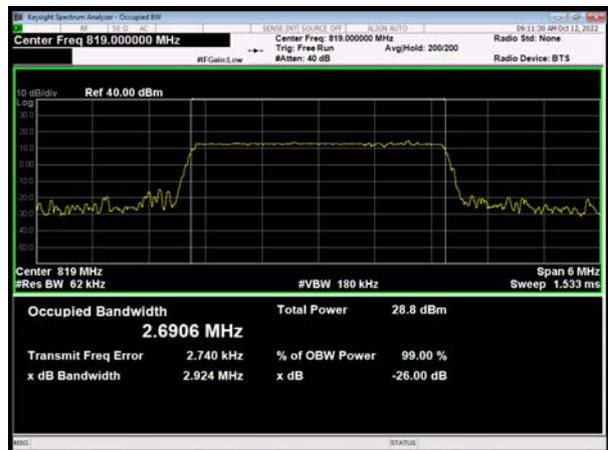
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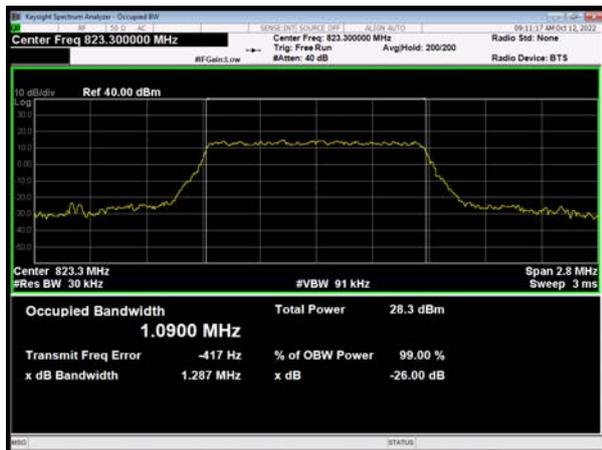
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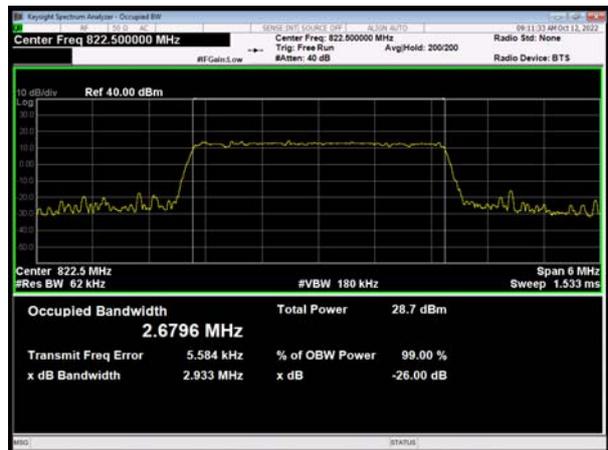
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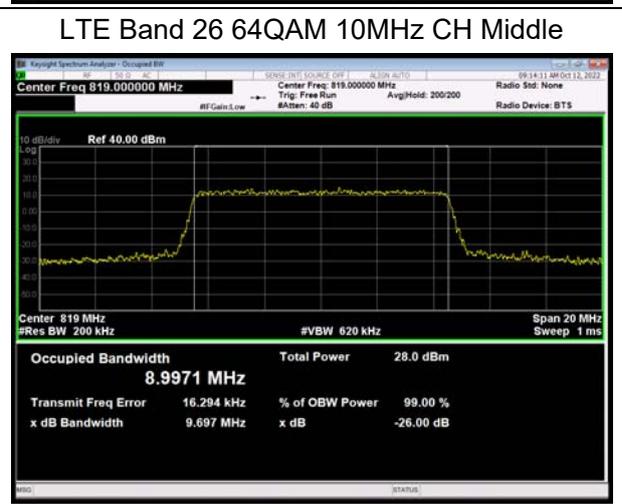
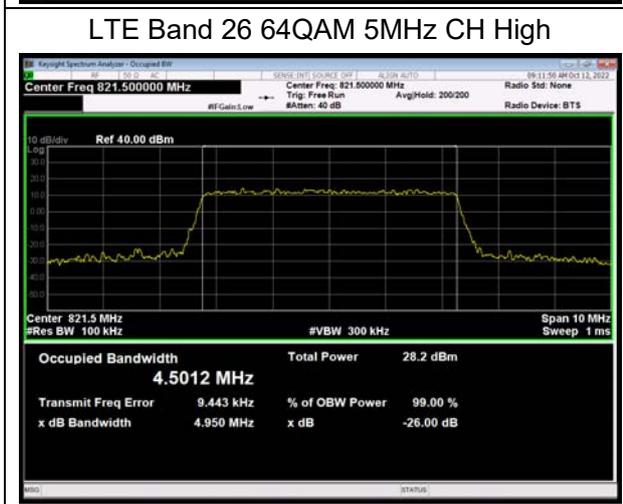
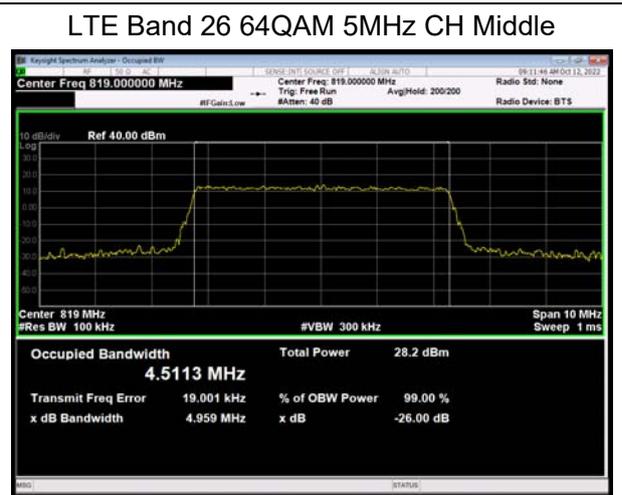


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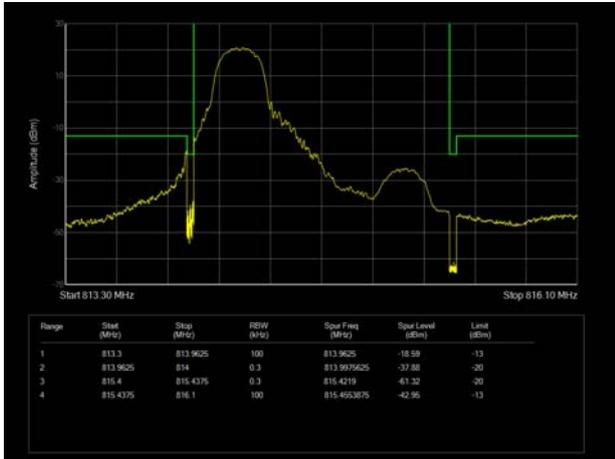
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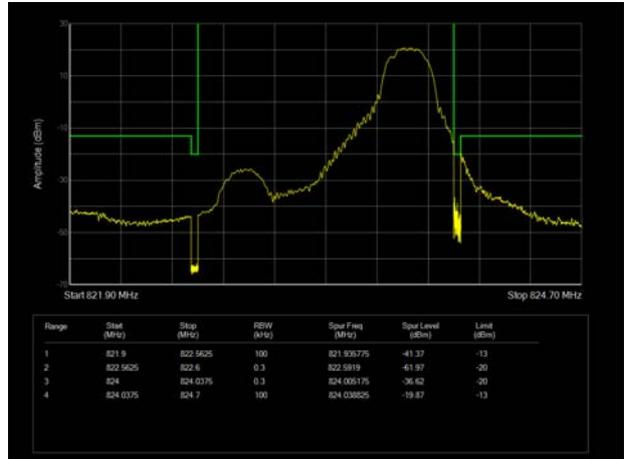


6.3. Emission Mask

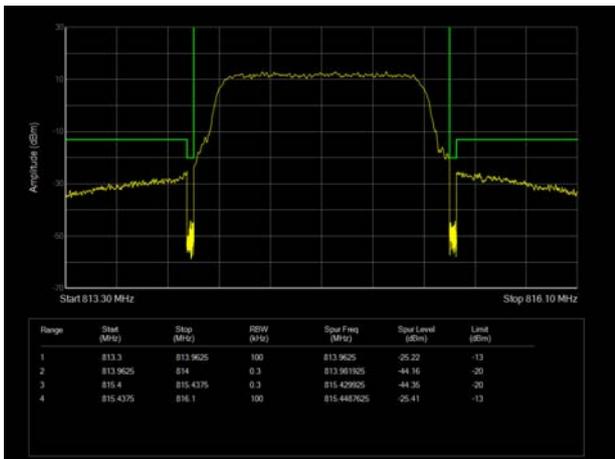
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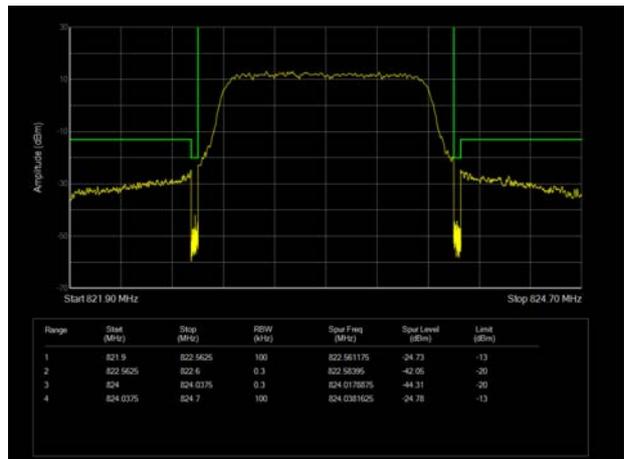
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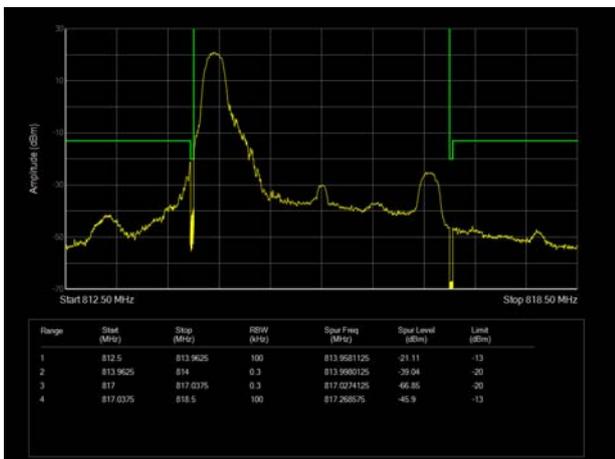
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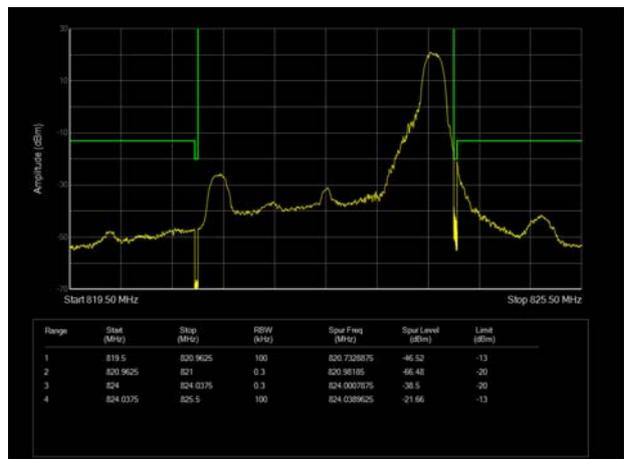
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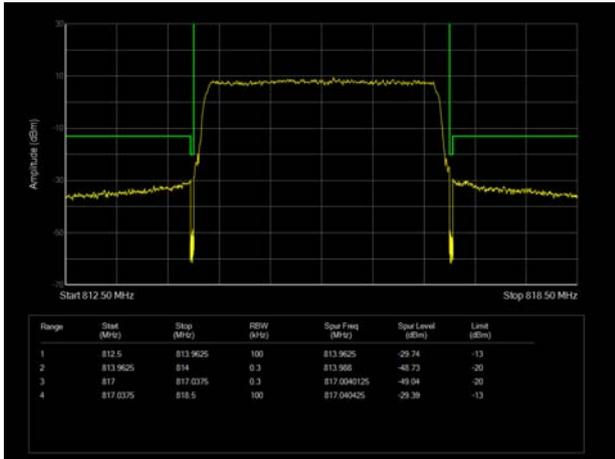
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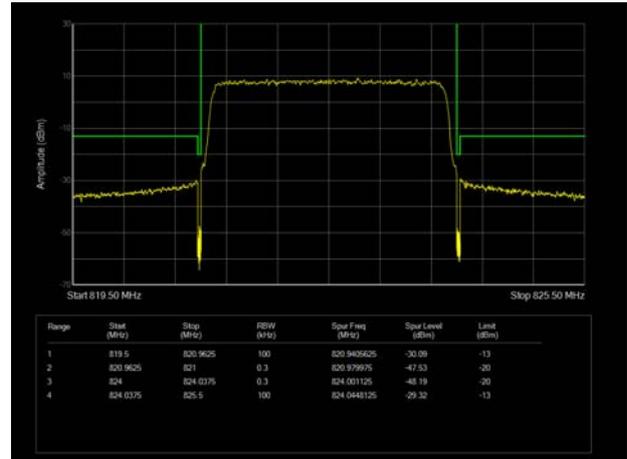
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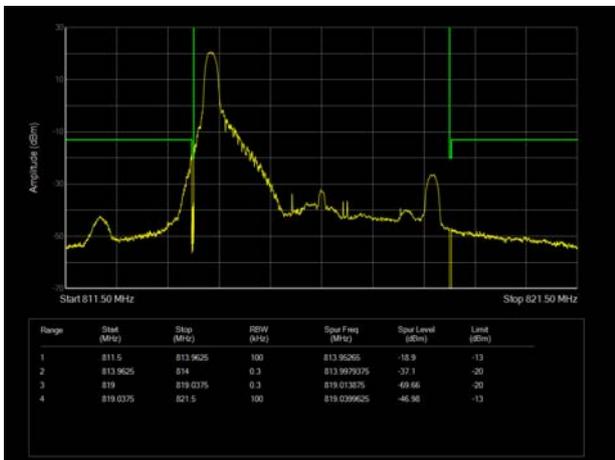
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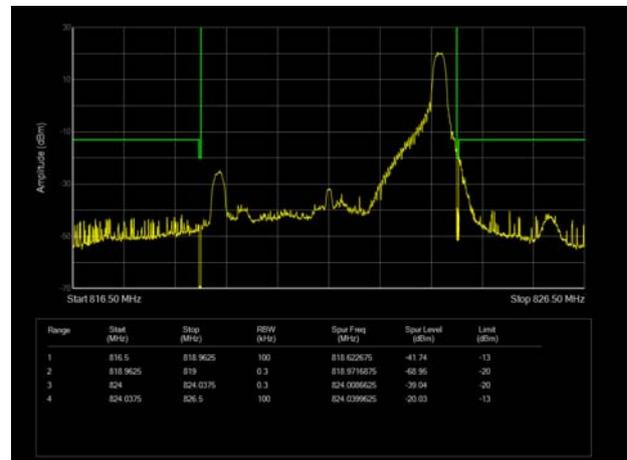
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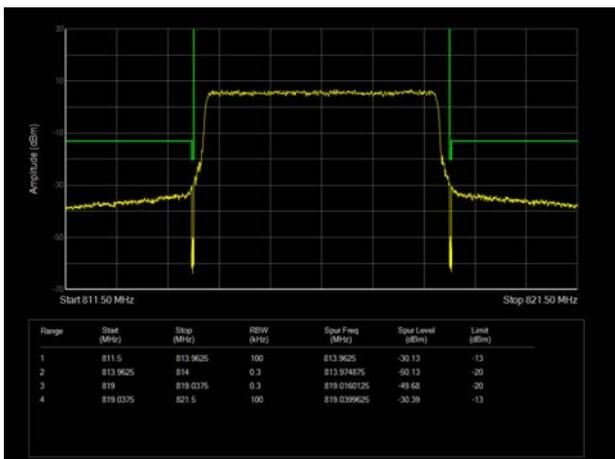
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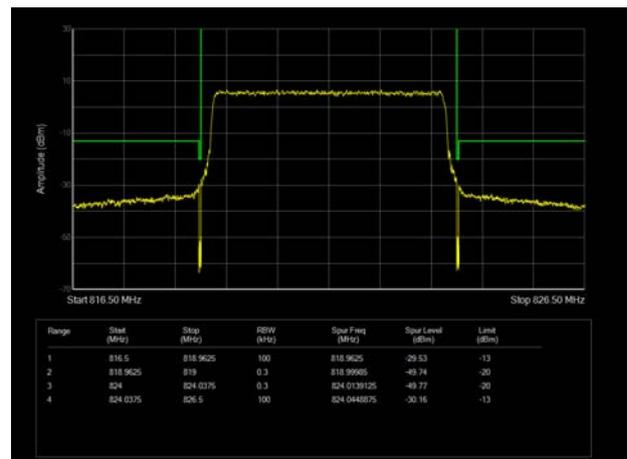
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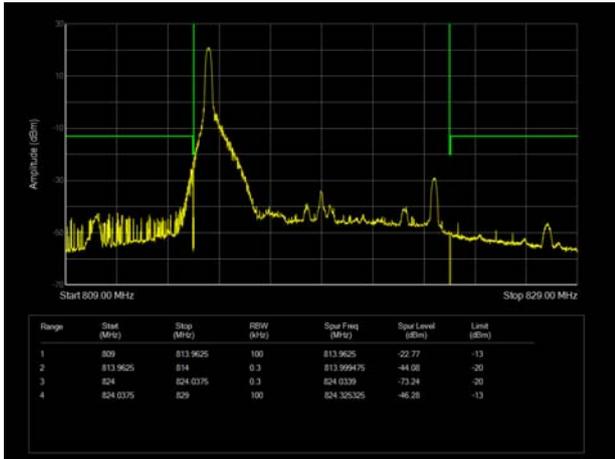
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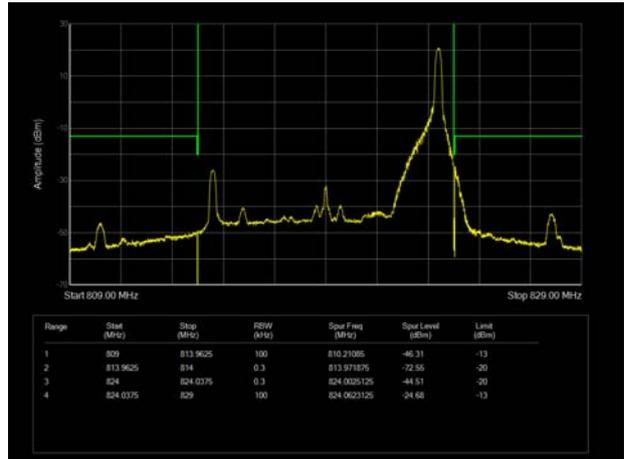
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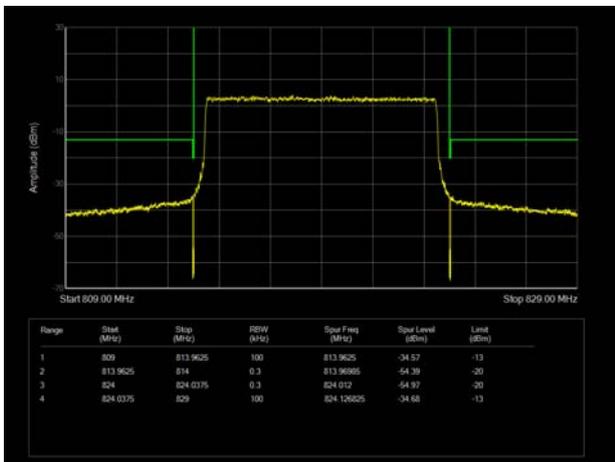
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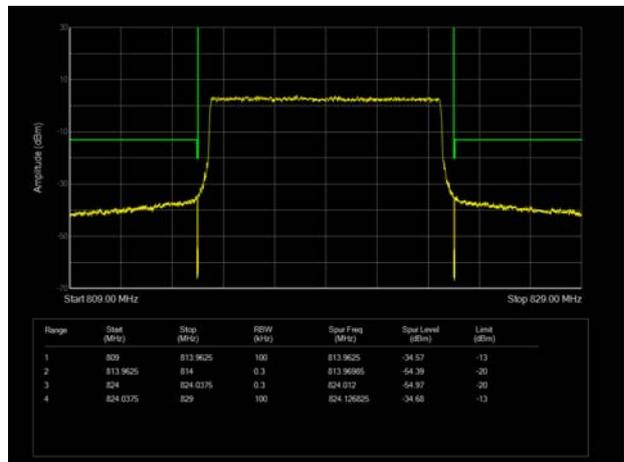
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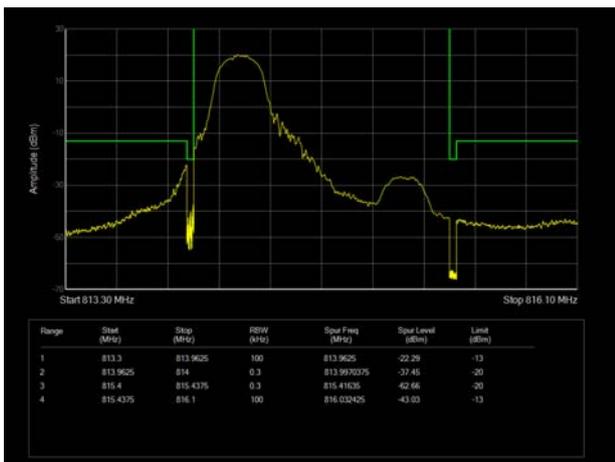
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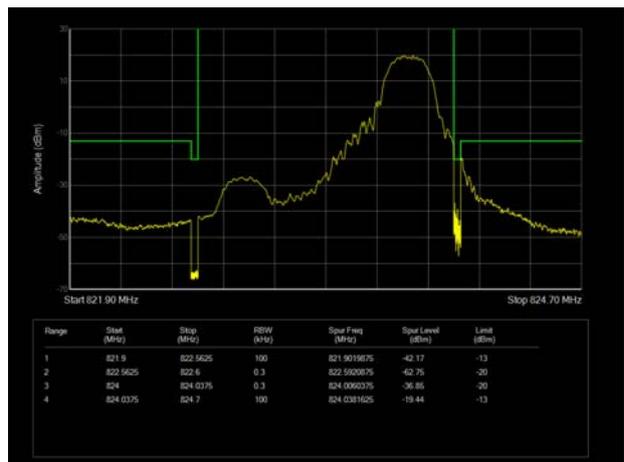
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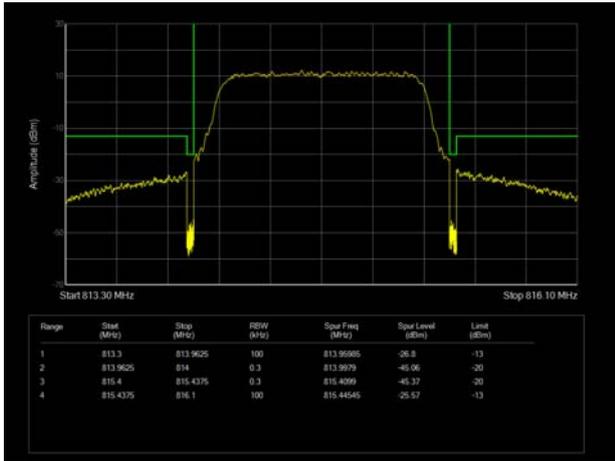
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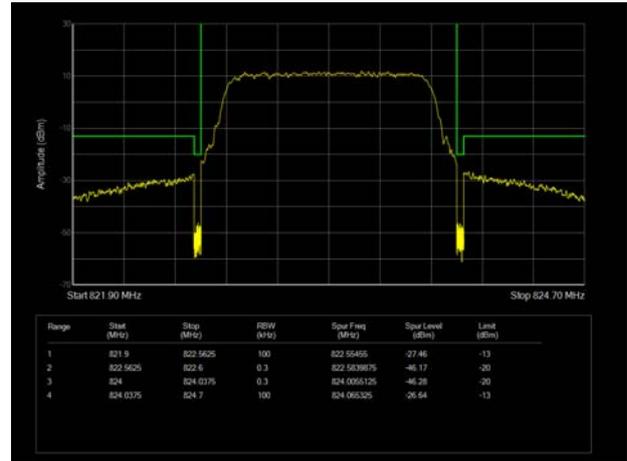
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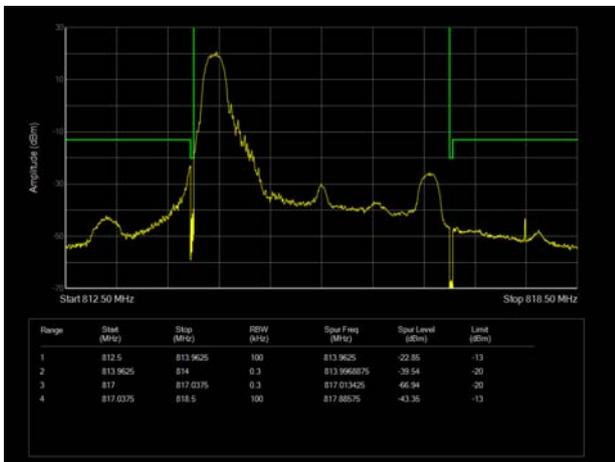
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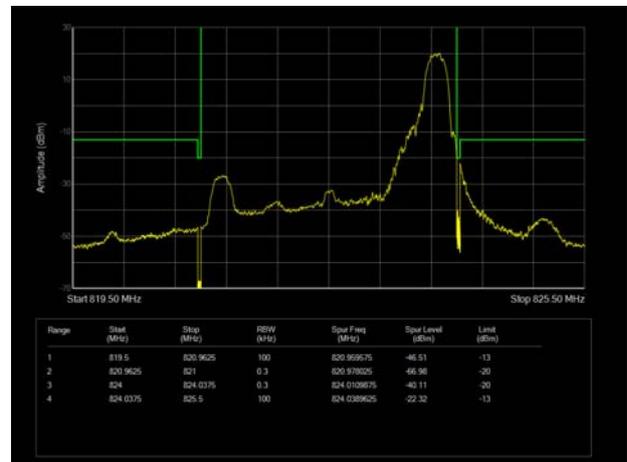
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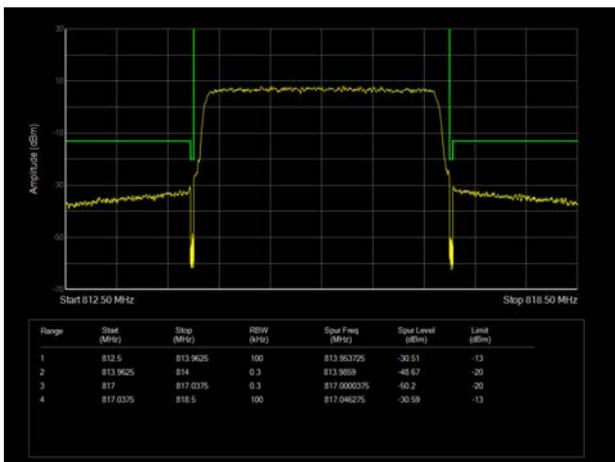
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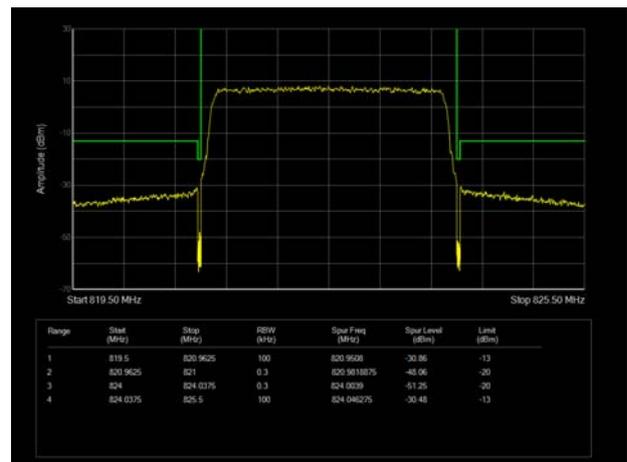
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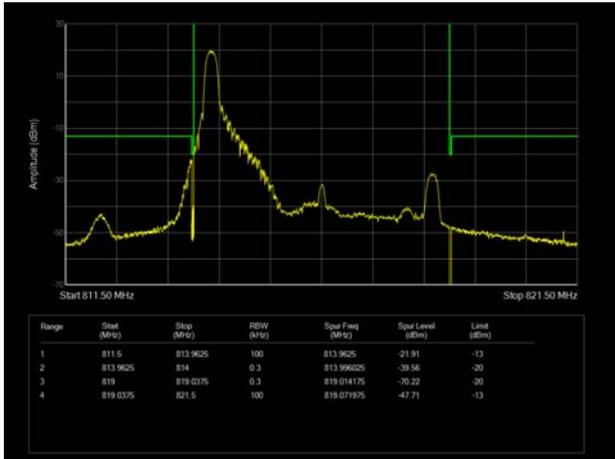
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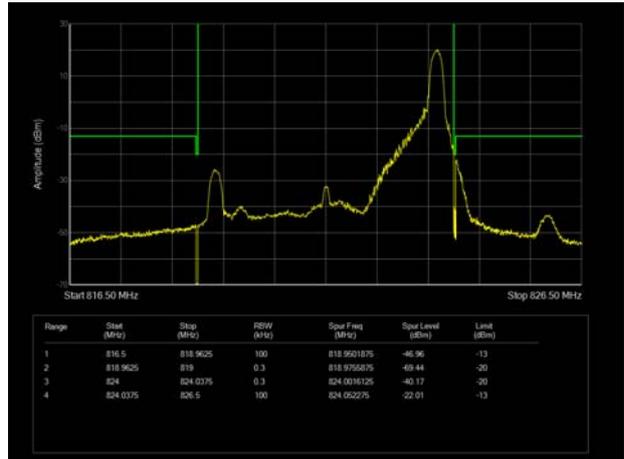
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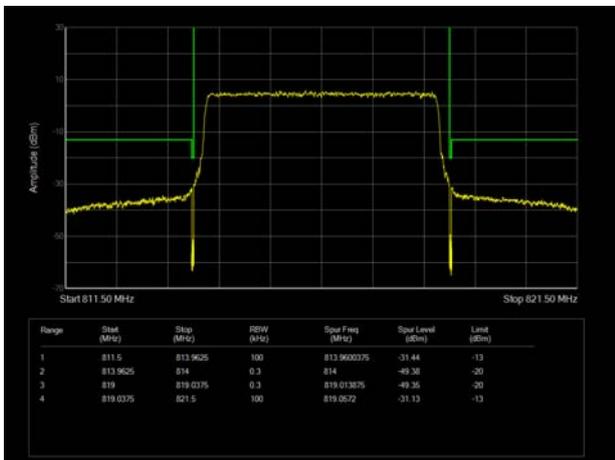
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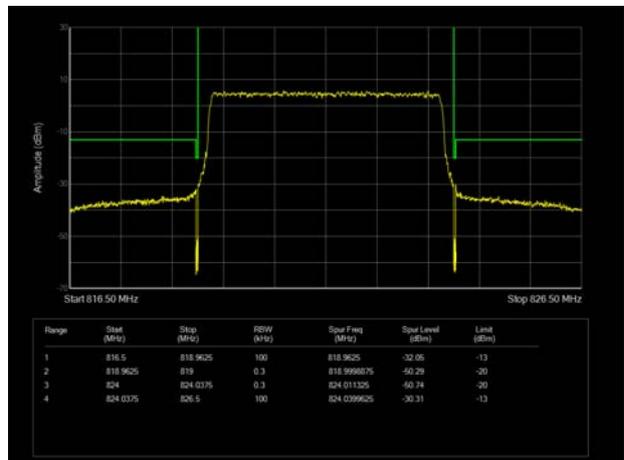
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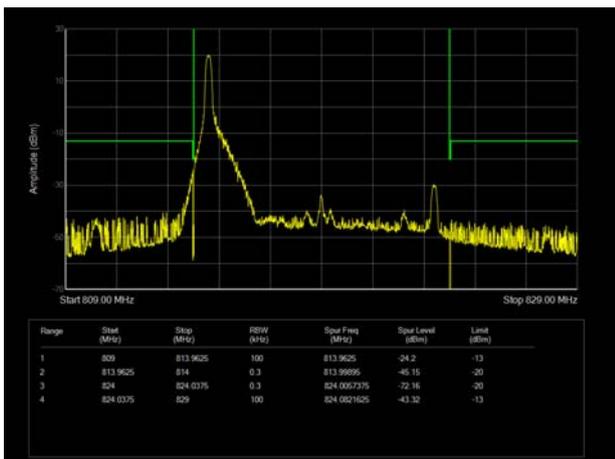
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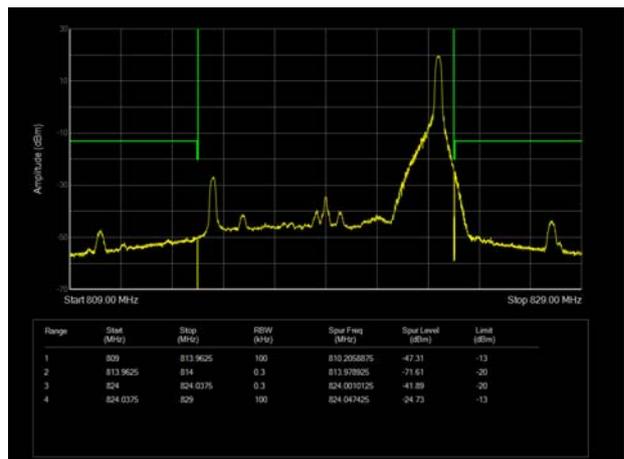
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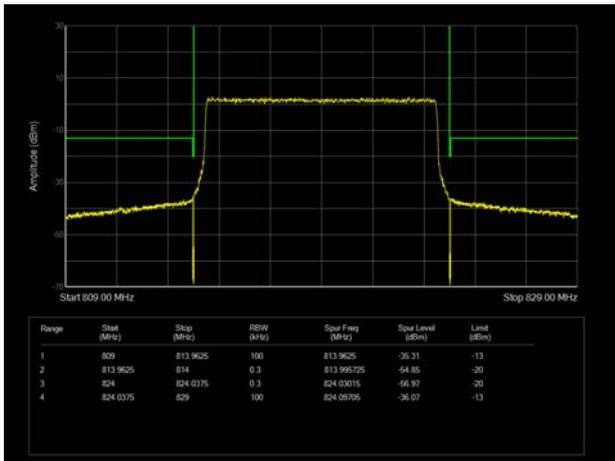
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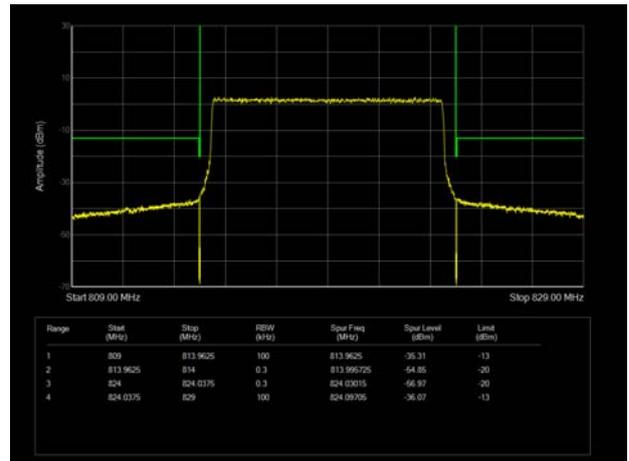
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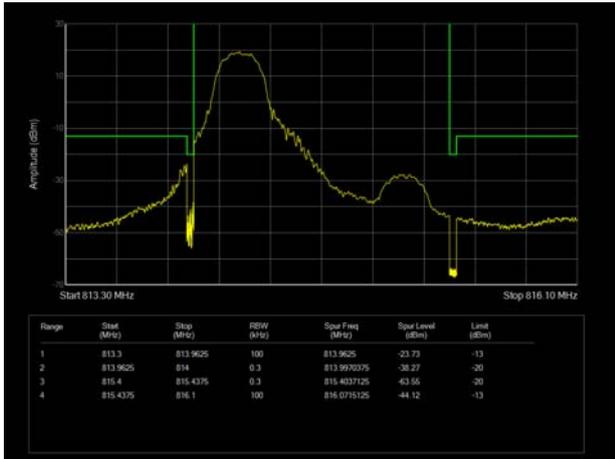
LTE Band 26 16QAM 10MHz CH-Low 100%RB



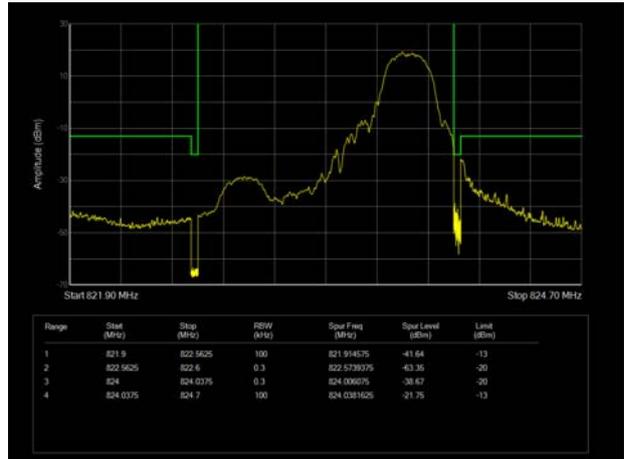
LTE Band 26 16QAM 10MHz CH-High 100%RB



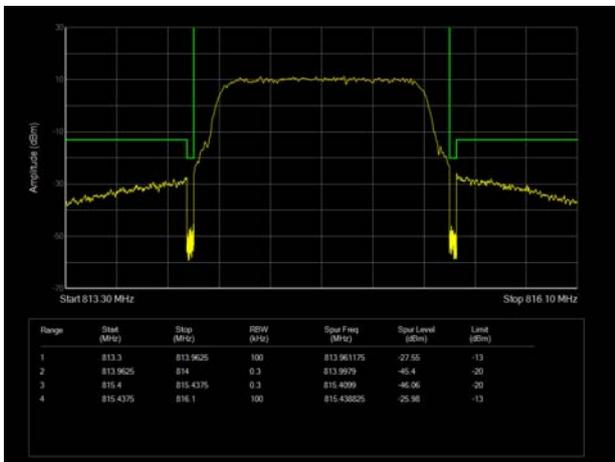
LTE Band 26 64QAM 1.4MHz CH-Low 1RB



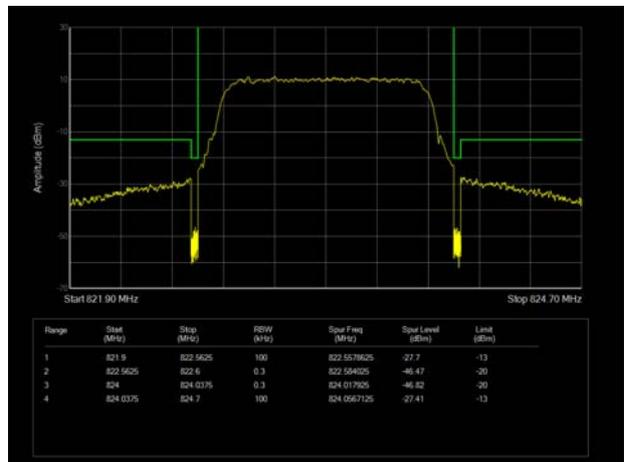
LTE Band 26 64QAM 1.4MHz CH-High 1RB



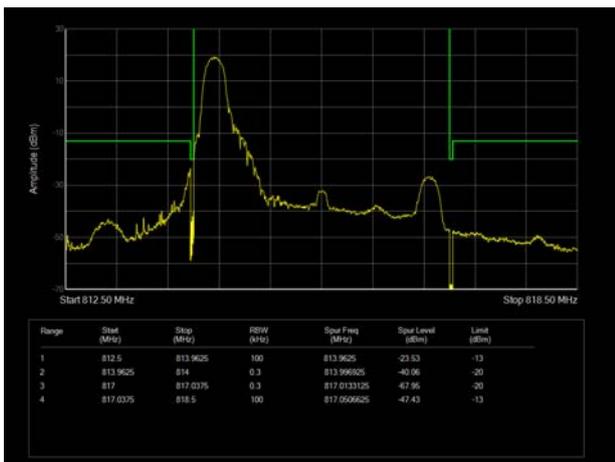
LTE Band 26 64QAM 1.4MHz CH-Low 100%RB



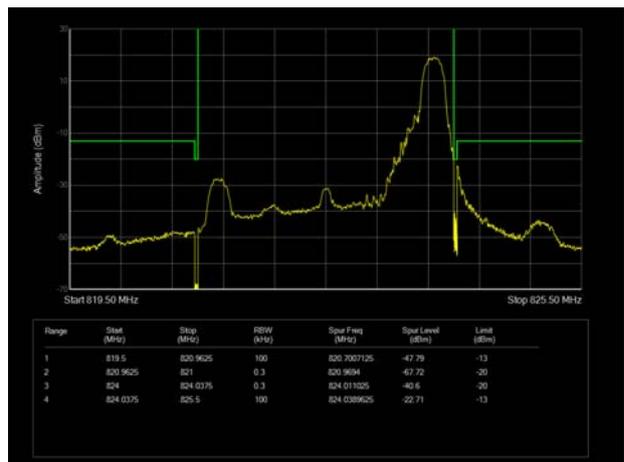
LTE Band 26 64QAM 1.4MHz CH-High 100%RB



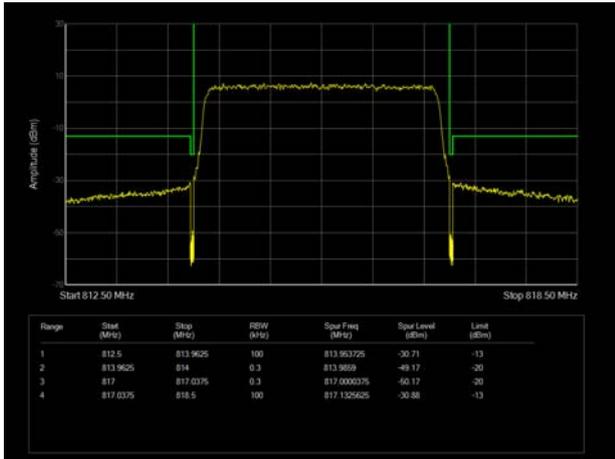
LTE Band 26 64QAM 3MHz CH-Low 1RB



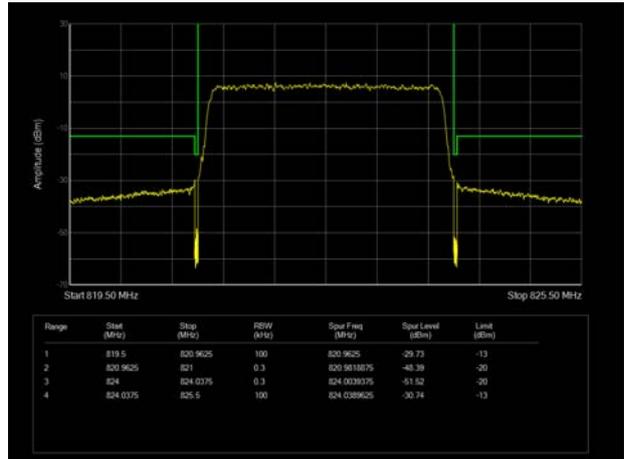
LTE Band 26 64QAM 3MHz CH-High 1RB



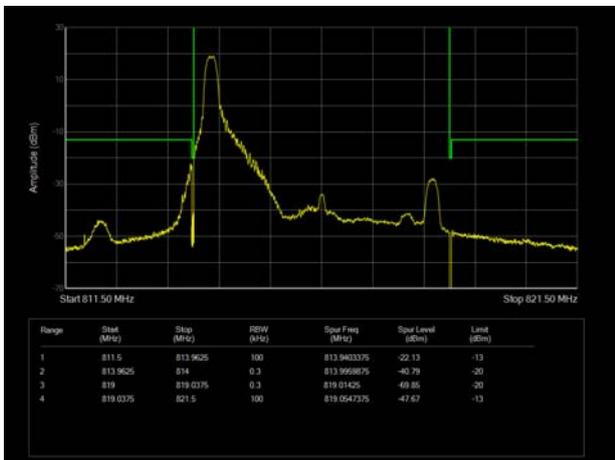
LTE Band 26 64QAM 3MHz CH-Low 100%RB



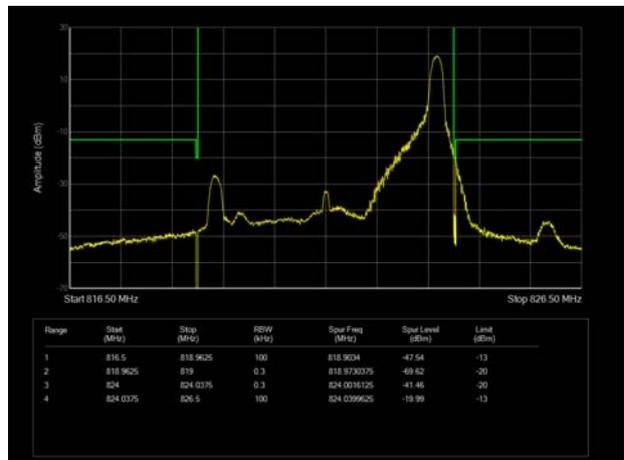
LTE Band 26 64QAM 3MHz CH-High 100%RB



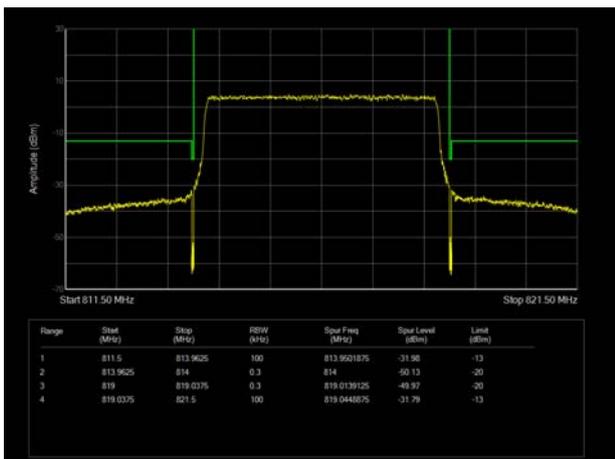
LTE Band 26 64QAM 5MHz CH-Low 1RB



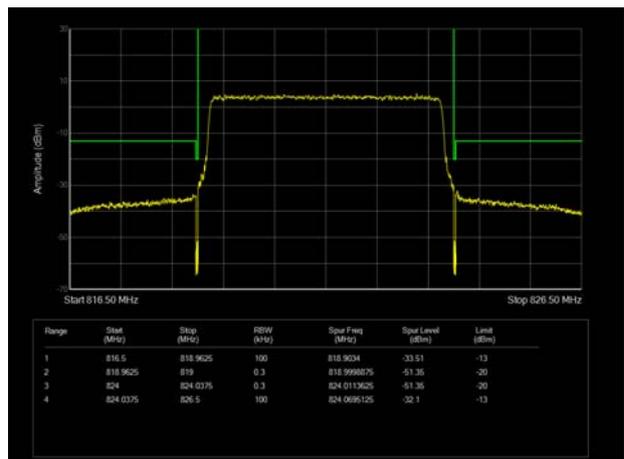
LTE Band 26 64QAM 5MHz CH-High 1RB



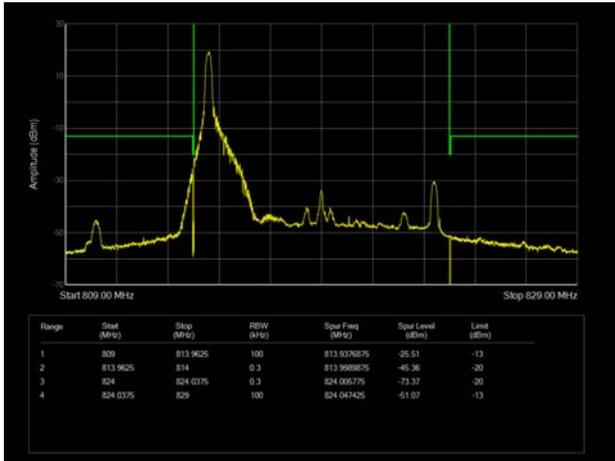
LTE Band 26 64QAM 5MHz CH-Low 100%RB



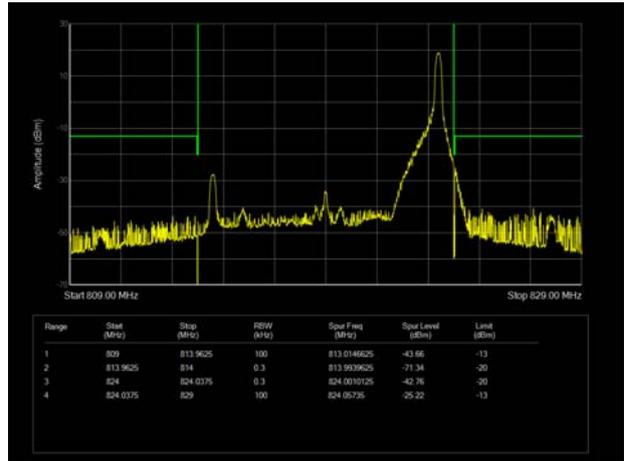
LTE Band 26 64QAM 5MHz CH-High 100%RB



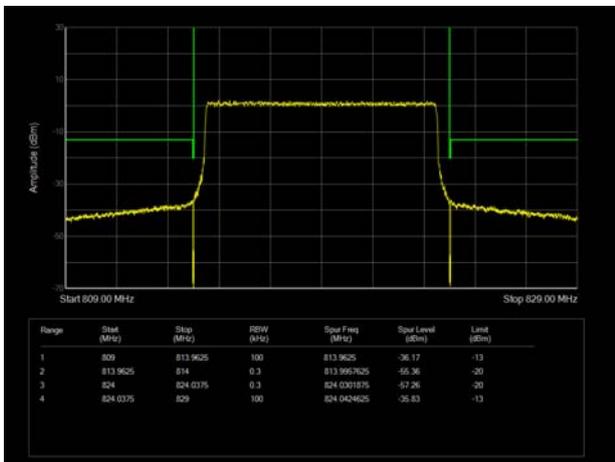
LTE Band 26 64QAM 10MHz CH-Low 1RB



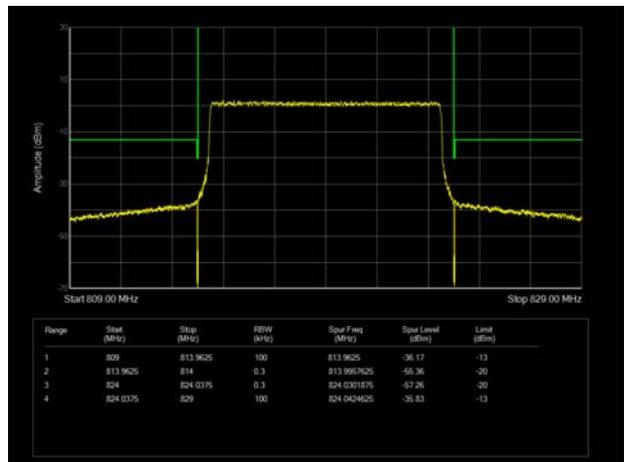
LTE Band 26 64QAM 10MHz CH-High 1RB



LTE Band 26 64QAM 10MHz CH-Low 100%RB



LTE Band 26 64QAM 10MHz CH-High 100%RB



6.4. Peak-to-Average Power Ratio (PAPR)

| Mode | Channel | Frequency (MHz) | Peak (dBm) | Avg (dBm) | PAPR (dB) | Limit (dB) | Conclusion |
|-----------------|---------|-----------------|------------|-----------|-----------|------------|------------|
| 1.4 MHz (QPSK) | 26697 | 814.7 | 27.17 | 22.11 | 5.06 | 13 | PASS |
| | 26740 | 819 | 27.25 | 22.09 | 5.16 | 13 | PASS |
| | 26783 | 823.3 | 27.25 | 22.12 | 5.13 | 13 | PASS |
| 3 MHz (QPSK) | 26697 | 814.7 | 27.21 | 22.03 | 5.18 | 13 | PASS |
| | 26740 | 819 | 27.17 | 22.04 | 5.13 | 13 | PASS |
| | 26783 | 823.3 | 27.21 | 22.04 | 5.17 | 13 | PASS |
| 5 MHz (QPSK) | 26697 | 814.7 | 27.25 | 22.03 | 5.22 | 13 | PASS |
| | 26740 | 819 | 27.25 | 22.04 | 5.21 | 13 | PASS |
| | 26783 | 823.3 | 27.32 | 22.06 | 5.26 | 13 | PASS |
| 10 MHz (QPSK) | 26740 | 819 | 27.29 | 22.09 | 5.20 | 13 | PASS |
| 1.4 MHz (16QAM) | 26697 | 814.7 | 26.87 | 21.06 | 5.81 | 13 | PASS |
| | 26740 | 819 | 26.90 | 21.07 | 5.83 | 13 | PASS |
| | 26783 | 823.3 | 27.07 | 21.14 | 5.93 | 13 | PASS |
| 3 MHz (16QAM) | 26697 | 814.7 | 26.97 | 21.07 | 5.90 | 13 | PASS |
| | 26740 | 819 | 26.99 | 21.02 | 5.97 | 13 | PASS |
| | 26783 | 823.3 | 27.02 | 21.03 | 5.99 | 13 | PASS |
| 5 MHz (16QAM) | 26697 | 814.7 | 26.98 | 21.04 | 5.94 | 13 | PASS |
| | 26740 | 819 | 26.99 | 21.07 | 5.92 | 13 | PASS |
| | 26783 | 823.3 | 26.99 | 21.04 | 5.95 | 13 | PASS |
| 10 MHz (16QAM) | 26740 | 819 | 27.02 | 21.05 | 5.97 | 13 | PASS |
| 1.4 MHz (64QAM) | 26697 | 814.7 | 26.14 | 20.27 | 5.87 | 13 | PASS |
| | 26740 | 819 | 26.23 | 20.32 | 5.91 | 13 | PASS |
| | 26783 | 823.3 | 26.32 | 20.37 | 5.95 | 13 | PASS |
| 3 MHz (64QAM) | 26697 | 814.7 | 26.16 | 20.23 | 5.93 | 13 | PASS |
| | 26740 | 819 | 26.20 | 20.21 | 5.99 | 13 | PASS |
| | 26783 | 823.3 | 26.19 | 20.27 | 5.92 | 13 | PASS |
| 5 MHz (64QAM) | 26697 | 814.7 | 26.20 | 20.24 | 5.96 | 13 | PASS |
| | 26740 | 819 | 26.23 | 20.26 | 5.97 | 13 | PASS |
| | 26783 | 823.3 | 26.24 | 20.25 | 5.99 | 13 | PASS |
| 10 MHz (64QAM) | 26740 | 819 | 26.23 | 20.26 | 5.97 | 13 | PASS |



6.5. Frequency Stability

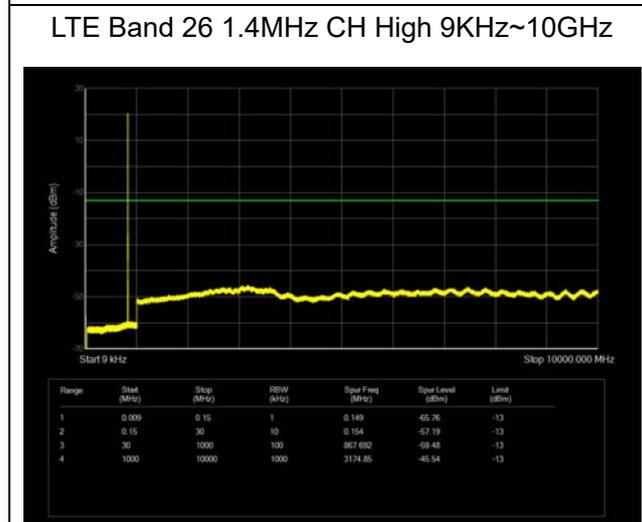
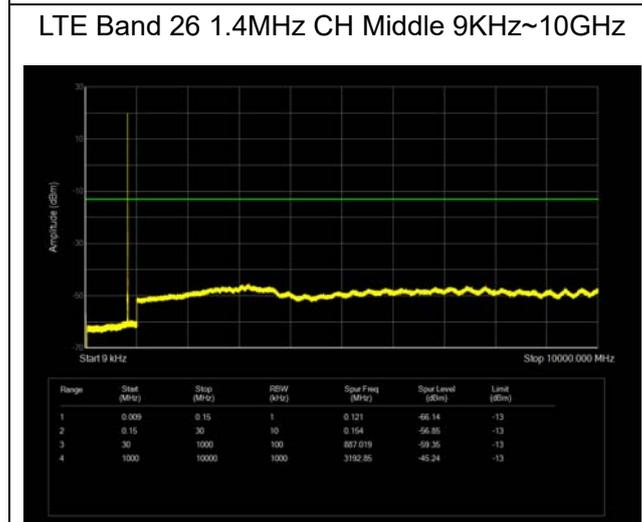
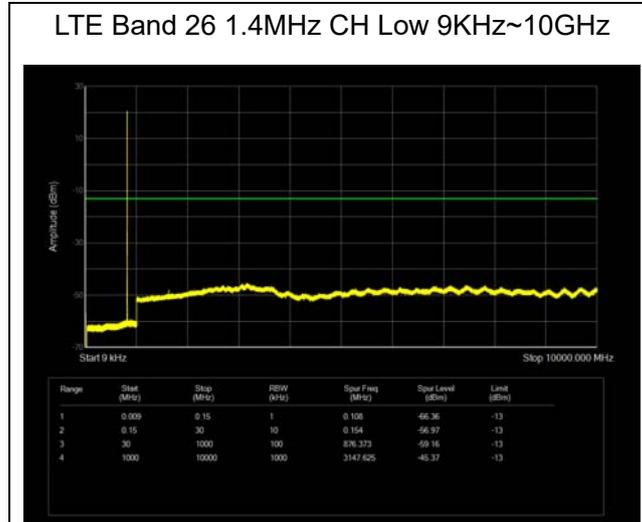
| LTE Band 26 | | | | | | | | |
|-----------------|---------|-----------------|-----------------|-----------------|---------------------------|---------------------------|---------------------------|---------|
| Condition | | Freq.Error (Hz) | Freq.Error (Hz) | Freq.Error (Hz) | Frequency Stability (ppm) | Frequency Stability (ppm) | Frequency Stability (ppm) | Verdict |
| BANDWIDTH | 1.4MHz | | | | | | | |
| Temperature | Voltage | 64QAM | 16QAM | QPSK | 64QAM | 16QAM | QPSK | |
| Normal (25°C) | Normal | 12.08 | 17.17 | 11.76 | 0.01475 | 0.02096 | 0.01436 | PASS |
| Extreme (50°C) | | 5.34 | 5.73 | 9.61 | 0.00652 | 0.00700 | 0.01173 | PASS |
| Extreme (40°C) | | 5.21 | 9.58 | 6.79 | 0.00636 | 0.01169 | 0.00829 | PASS |
| Extreme (30°C) | | 15.76 | 12.23 | 8.41 | 0.01924 | 0.01493 | 0.01027 | PASS |
| Extreme (20°C) | | 6.56 | 16.99 | 8.70 | 0.00800 | 0.02074 | 0.01062 | PASS |
| Extreme (10°C) | | 16.99 | 13.49 | 11.16 | 0.02074 | 0.01647 | 0.01363 | PASS |
| Extreme (0°C) | | 8.28 | 14.36 | 7.41 | 0.01011 | 0.01753 | 0.00905 | PASS |
| Extreme (-10°C) | | 13.84 | 9.45 | 14.70 | 0.01690 | 0.01154 | 0.01795 | PASS |
| Extreme (-20°C) | | 5.26 | 12.35 | 5.48 | 0.00642 | 0.01508 | 0.00669 | PASS |
| Extreme (-30°C) | | 17.15 | 1.87 | 15.44 | 0.02094 | 0.00229 | 0.01885 | PASS |
| 25°C | LV | 14.40 | 11.51 | 4.20 | 0.01759 | 0.01406 | 0.00513 | PASS |
| | HV | 15.03 | 4.30 | 7.38 | 0.01836 | 0.00525 | 0.00901 | PASS |
| Condition | | Freq.Error (Hz) | Freq.Error (Hz) | Freq.Error (Hz) | Frequency Stability (ppm) | Frequency Stability (ppm) | Frequency Stability (ppm) | Verdict |
| BANDWIDTH | 3MHz | | | | | | | |
| Temperature | Voltage | 64QAM | 16QAM | QPSK | 64QAM | 16QAM | QPSK | |
| Normal (25°C) | Normal | 11.40 | 14.24 | 8.55 | 0.01392 | 0.01739 | 0.01044 | PASS |
| Extreme (50°C) | | 4.10 | 14.80 | 8.42 | 0.00500 | 0.01807 | 0.01028 | PASS |
| Extreme (40°C) | | 13.36 | 13.69 | 16.11 | 0.01631 | 0.01671 | 0.01967 | PASS |
| Extreme (30°C) | | 17.14 | 14.95 | 15.89 | 0.02093 | 0.01826 | 0.01940 | PASS |
| Extreme (20°C) | | 12.73 | 14.67 | 10.89 | 0.01554 | 0.01791 | 0.01330 | PASS |
| Extreme (10°C) | | 8.26 | 13.54 | 13.31 | 0.01008 | 0.01654 | 0.01625 | PASS |
| Extreme (0°C) | | 2.91 | 16.08 | 2.67 | 0.00355 | 0.01963 | 0.00326 | PASS |
| Extreme (-10°C) | | 4.70 | 3.10 | 5.34 | 0.00574 | 0.00378 | 0.00652 | PASS |
| Extreme (-20°C) | | 9.93 | 1.95 | 15.53 | 0.01212 | 0.00238 | 0.01896 | PASS |
| Extreme (-30°C) | | 1.58 | 11.27 | 13.45 | 0.00193 | 0.01376 | 0.01643 | PASS |
| 25°C | LV | 12.06 | 9.47 | 12.78 | 0.01472 | 0.01156 | 0.01560 | PASS |
| | HV | 14.88 | 10.04 | 14.92 | 0.01816 | 0.01226 | 0.01822 | PASS |
| Condition | | Freq.Error (Hz) | Freq.Error (Hz) | Freq.Error (Hz) | Frequency Stability (ppm) | Frequency Stability (ppm) | Frequency Stability (ppm) | Verdict |
| BANDWIDTH | 5MHz | | | | | | | |
| Temperature | Voltage | 64QAM | 16QAM | QPSK | 64QAM | 16QAM | QPSK | |



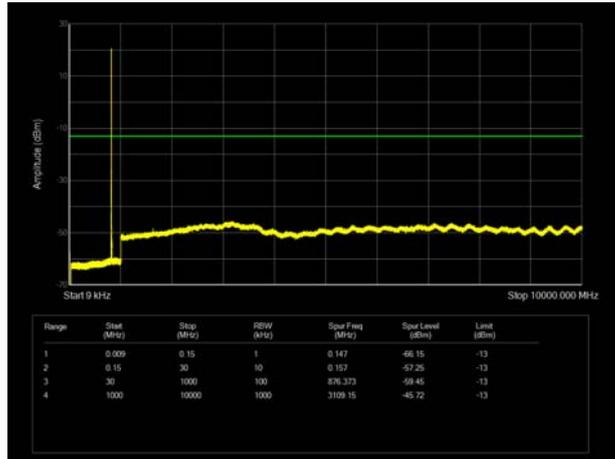
| | | | | | | | | |
|-----------------|---------|-----------------|-----------------|-----------------|---------------------------|---------------------------|---------------------------|---------|
| Normal (25°C) | Normal | 12.41 | 7.29 | 13.00 | 0.01515 | 0.00890 | 0.01587 | PASS |
| Extreme (50°C) | | 2.88 | 5.60 | 12.49 | 0.00352 | 0.00684 | 0.01524 | PASS |
| Extreme (40°C) | | 14.16 | 13.14 | 9.89 | 0.01729 | 0.01605 | 0.01207 | PASS |
| Extreme (30°C) | | 5.51 | 16.36 | 7.53 | 0.00673 | 0.01997 | 0.00920 | PASS |
| Extreme (20°C) | | 3.06 | 9.79 | 6.29 | 0.00373 | 0.01196 | 0.00767 | PASS |
| Extreme (10°C) | | 14.81 | 4.43 | 15.66 | 0.01809 | 0.00541 | 0.01912 | PASS |
| Extreme (0°C) | | 14.49 | 5.32 | 12.16 | 0.01769 | 0.00650 | 0.01484 | PASS |
| Extreme (-10°C) | | 2.99 | 4.02 | 10.68 | 0.00365 | 0.00491 | 0.01304 | PASS |
| Extreme (-20°C) | | 9.12 | 1.75 | 3.50 | 0.01114 | 0.00213 | 0.00428 | PASS |
| Extreme (-30°C) | | 1.15 | 1.22 | 13.27 | 0.00140 | 0.00149 | 0.01620 | PASS |
| 25°C | | LV | 8.95 | 17.35 | 16.31 | 0.01092 | 0.02118 | 0.01991 |
| | HV | 12.49 | 9.16 | 10.43 | 0.01526 | 0.01118 | 0.01274 | PASS |
| Condition | | Freq.Error (Hz) | Freq.Error (Hz) | Freq.Error (Hz) | Frequency Stability (ppm) | Frequency Stability (ppm) | Frequency Stability (ppm) | Verdict |
| BANDWIDTH | 10MHz | | | | | | | |
| Temperature | Voltage | 64QAM | 16QAM | QPSK | 64QAM | 16QAM | QPSK | |
| Normal (25°C) | Normal | 17.71 | 14.67 | 3.45 | 0.02162 | 0.01792 | 0.00422 | PASS |
| Extreme (50°C) | | 8.99 | 13.27 | 6.61 | 0.01097 | 0.01620 | 0.00807 | PASS |
| Extreme (40°C) | | 10.04 | 3.76 | 12.06 | 0.01226 | 0.00459 | 0.01473 | PASS |
| Extreme (30°C) | | 5.11 | 3.94 | 17.35 | 0.00624 | 0.00481 | 0.02118 | PASS |
| Extreme (20°C) | | 2.50 | 5.88 | 6.62 | 0.00305 | 0.00717 | 0.00808 | PASS |
| Extreme (10°C) | | 13.93 | 13.61 | 13.60 | 0.01701 | 0.01662 | 0.01661 | PASS |
| Extreme (0°C) | | 15.14 | 12.78 | 13.43 | 0.01849 | 0.01561 | 0.01639 | PASS |
| Extreme (-10°C) | | 1.12 | 2.33 | 3.33 | 0.00136 | 0.00284 | 0.00406 | PASS |
| Extreme (-20°C) | | 10.66 | 3.29 | 15.38 | 0.01302 | 0.00402 | 0.01878 | PASS |
| Extreme (-30°C) | | 3.36 | 15.94 | 13.06 | 0.00410 | 0.01946 | 0.01595 | PASS |
| 25°C | | LV | 3.10 | 3.71 | 17.70 | 0.00379 | 0.00453 | 0.02161 |
| | HV | 3.08 | 7.20 | 3.43 | 0.00376 | 0.00879 | 0.00418 | PASS |

6.6. Spurious Emissions at Antenna Terminals

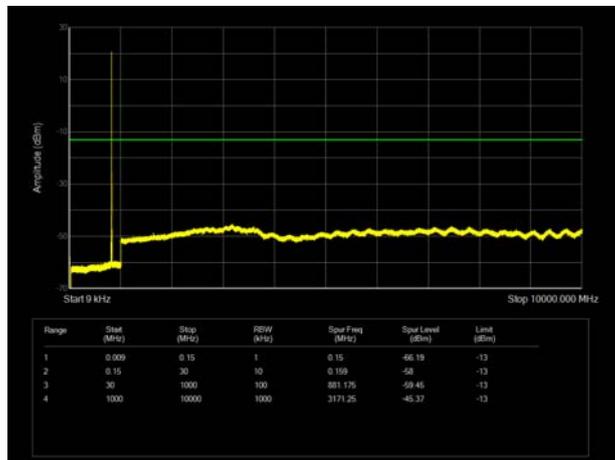
If disturbances were found more than 20dB below limit line, the mark is not required for the EUT. The signal beyond the limit is carrier.



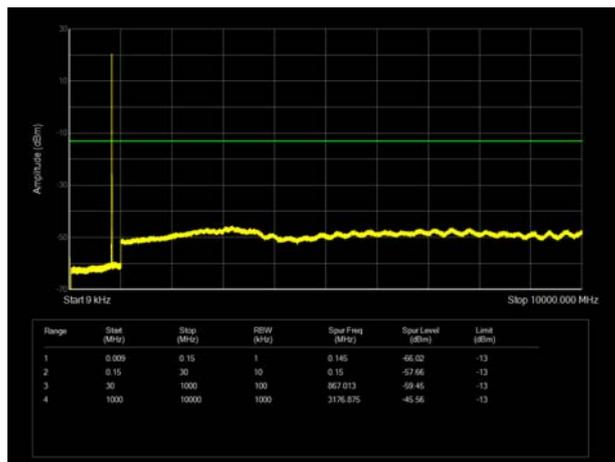
LTE Band 26 3MHz CH Low 9KHz~10GHz



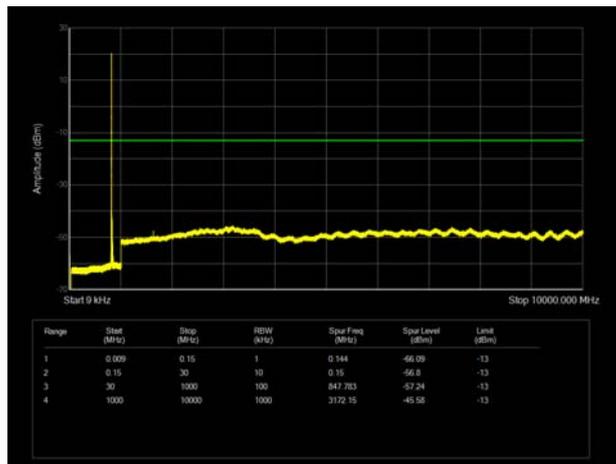
LTE Band 26 3MHz CH Middle 9KHz~10GHz



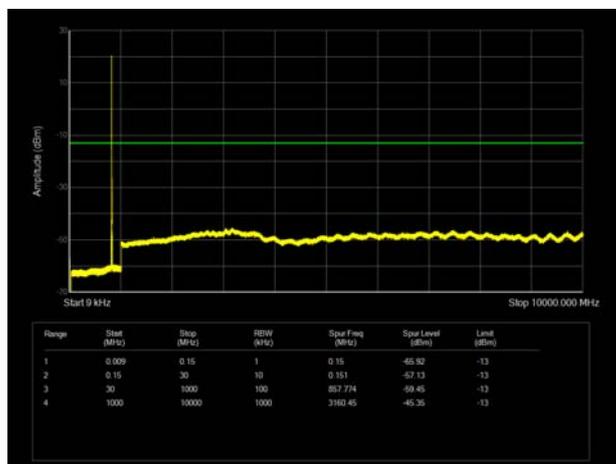
LTE Band 26 3MHz CH High 9KHz~10GHz



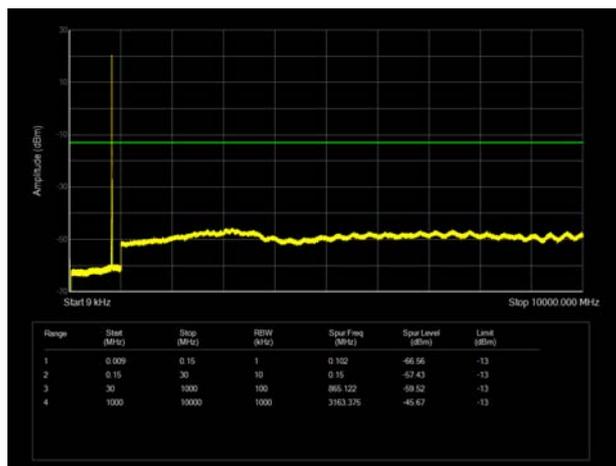
LTE Band 26 5MHz CH Low 9KHz~10GHz



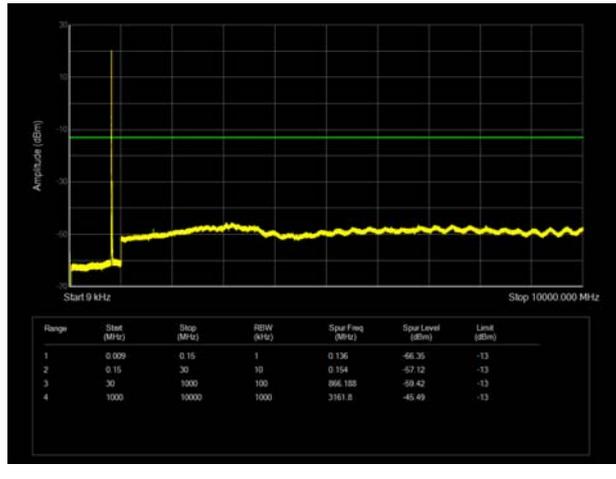
LTE Band 26 5MHz CH Middle 9KHz~10GHz



LTE Band 26 5MHz CH High 9KHz~10GHz



LTE Band 26 10MHz CH Middle 9KHz~10GHz



6.7. Radiated Spurious Emission

Sweep the whole frequency band through the range from 30MHz to the 10th harmonic of the carrier, the emissions below the noise floor will not be recorded in the report.

Upper Antenna

LTE Band 26 1.4MHz CH Middle

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | ERP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|-----------------|-------------|-------------|---------------|
| 2 | 1636.60 | -64.45 | 1.70 | 8.70 | Vertical | -59.60 | -13.00 | 46.60 | 90 |
| 3 | 2454.90 | -65.60 | 2.30 | 12.00 | Vertical | -58.05 | -13.00 | 45.05 | 225 |
| 4 | 3273.20 | -67.70 | 2.20 | 13.10 | Vertical | -58.95 | -13.00 | 45.95 | 170 |
| 5 | 4091.50 | -63.57 | 3.00 | 12.50 | Vertical | -56.22 | -13.00 | 43.22 | 49 |
| 6 | 4909.80 | -62.28 | 3.10 | 12.50 | Vertical | -55.03 | -13.00 | 42.03 | 286 |
| 7 | 5728.10 | -61.63 | 3.40 | 12.50 | Vertical | -54.68 | -13.00 | 41.68 | 149 |
| 8 | 6546.40 | -60.05 | 3.80 | 11.50 | Vertical | -54.50 | -13.00 | 41.50 | 270 |
| 9 | 7364.70 | -56.63 | 4.20 | 12.20 | Vertical | -50.78 | -13.00 | 37.78 | 49 |
| 10 | 8183.00 | -55.07 | 4.30 | 12.30 | Vertical | -49.22 | -13.00 | 36.22 | 38 |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
 2.The worst emission was found in the antenna is Vertical position.

LTE Band 26 5MHz CH Middle

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | ERP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|-----------------|-------------|-------------|---------------|
| 2 | 1633.00 | -63.14 | 1.70 | 8.70 | Vertical | -58.29 | -13.00 | 45.29 | 280 |
| 3 | 2449.50 | -63.94 | 2.30 | 12.00 | Vertical | -56.39 | -13.00 | 43.39 | 103 |
| 4 | 3266.00 | -67.16 | 2.20 | 13.10 | Vertical | -58.41 | -13.00 | 45.41 | 41 |
| 5 | 4082.50 | -64.69 | 3.00 | 12.50 | Vertical | -57.34 | -13.00 | 44.34 | 89 |
| 6 | 4899.00 | -63.03 | 3.10 | 12.50 | Vertical | -55.78 | -13.00 | 42.78 | 34 |
| 7 | 5715.50 | -61.46 | 3.40 | 12.50 | Vertical | -54.51 | -13.00 | 41.51 | 79 |
| 8 | 6532.00 | -59.93 | 3.80 | 11.50 | Vertical | -54.38 | -13.00 | 41.38 | 55 |
| 9 | 7348.50 | -56.11 | 4.20 | 12.20 | Vertical | -50.26 | -13.00 | 37.26 | 173 |
| 10 | 8165.00 | -54.62 | 4.30 | 12.30 | Vertical | -48.77 | -13.00 | 35.77 | 96 |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
 2.The worst emission was found in the antenna is Vertical position.



LTE Band 26 10MHz CH Middle

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | ERP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|-----------------|-------------|-------------|---------------|
| 2 | 1628.00 | -59.16 | 1.70 | 8.70 | Vertical | -54.31 | -13.00 | 41.31 | 315 |
| 3 | 2442.00 | -55.35 | 2.30 | 12.00 | Vertical | -47.80 | -13.00 | 34.80 | 111 |
| 4 | 3256.00 | -67.32 | 2.20 | 13.10 | Vertical | -58.57 | -13.00 | 45.57 | 166 |
| 5 | 4070.00 | -64.70 | 3.00 | 12.50 | Vertical | -57.35 | -13.00 | 44.35 | 9 |
| 6 | 4884.00 | -63.00 | 3.10 | 12.50 | Vertical | -55.75 | -13.00 | 42.75 | 79 |
| 7 | 5698.00 | -62.05 | 3.40 | 12.50 | Vertical | -55.10 | -13.00 | 42.10 | 190 |
| 8 | 6512.00 | -58.90 | 3.80 | 11.50 | Vertical | -53.35 | -13.00 | 40.35 | 34 |
| 9 | 7326.00 | -55.37 | 4.20 | 12.20 | Vertical | -49.52 | -13.00 | 36.52 | 47 |
| 10 | 8140.00 | -54.85 | 4.30 | 12.30 | Vertical | -49.00 | -13.00 | 36.00 | 229 |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2.The worst emission was found in the antenna is Vertical position.

Low Antenna

LTE Band 26 1.4MHz CH Middle

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | ERP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|-----------------|-------------|-------------|---------------|
| 2 | 1637.30 | -57.63 | 1.70 | 8.70 | Vertical | -52.78 | -13.00 | 39.78 | 178 |
| 3 | 2455.55 | -53.00 | 2.30 | 12.00 | Vertical | -45.45 | -13.00 | 32.45 | 160 |
| 4 | 3273.20 | -66.96 | 2.20 | 13.10 | Vertical | -58.21 | -13.00 | 45.21 | 309 |
| 5 | 4091.50 | -64.29 | 3.00 | 12.50 | Vertical | -56.94 | -13.00 | 43.94 | 17 |
| 6 | 4909.80 | -63.06 | 3.10 | 12.50 | Vertical | -55.81 | -13.00 | 42.81 | 81 |
| 7 | 5728.10 | -61.61 | 3.40 | 12.50 | Vertical | -54.66 | -13.00 | 41.66 | 53 |
| 8 | 6546.40 | -59.80 | 3.80 | 11.50 | Vertical | -54.25 | -13.00 | 41.25 | 134 |
| 9 | 7364.70 | -56.09 | 4.20 | 12.20 | Vertical | -50.24 | -13.00 | 37.24 | 157 |
| 10 | 8183.00 | -54.69 | 4.30 | 12.30 | Vertical | -48.84 | -13.00 | 35.84 | 75 |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
 2.The worst emission was found in the antenna is Vertical position.

LTE Band 26 5MHz CH Middle

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | ERP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|-----------------|-------------|-------------|---------------|
| 2 | 1633.85 | -58.67 | 1.70 | 8.70 | Vertical | -53.82 | -13.00 | 40.82 | 10 |
| 3 | 2450.25 | -53.40 | 2.30 | 12.00 | Vertical | -45.85 | -13.00 | 32.85 | 154 |
| 4 | 3266.00 | -67.86 | 2.20 | 13.10 | Vertical | -59.11 | -13.00 | 46.11 | 31 |
| 5 | 4082.50 | -63.80 | 3.00 | 12.50 | Vertical | -56.45 | -13.00 | 43.45 | 178 |
| 6 | 4899.00 | -64.27 | 3.10 | 12.50 | Vertical | -57.02 | -13.00 | 44.02 | 87 |
| 7 | 5715.50 | -62.30 | 3.40 | 12.50 | Vertical | -55.35 | -13.00 | 42.35 | 34 |
| 8 | 6532.00 | -60.68 | 3.80 | 11.50 | Vertical | -55.13 | -13.00 | 42.13 | 264 |
| 9 | 7348.50 | -55.73 | 4.20 | 12.20 | Vertical | -49.88 | -13.00 | 36.88 | 307 |
| 10 | 8165.00 | -54.89 | 4.30 | 12.30 | Vertical | -49.04 | -13.00 | 36.04 | 163 |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
 2.The worst emission was found in the antenna is Vertical position.

LTE Band 26 10MHz CH Middle

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | ERP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|-----------------|-------------|-------------|---------------|
| 2 | 1629.35 | -60.77 | 1.70 | 8.70 | Vertical | -55.92 | -13.00 | 42.92 | 5 |
| 3 | 2443.95 | -54.80 | 2.30 | 12.00 | Vertical | -47.25 | -13.00 | 34.25 | 170 |
| 4 | 3256.00 | -66.56 | 2.20 | 13.10 | Vertical | -57.81 | -13.00 | 44.81 | 56 |
| 5 | 4070.00 | -64.64 | 3.00 | 12.50 | Vertical | -57.29 | -13.00 | 44.29 | 38 |
| 6 | 4884.00 | -63.05 | 3.10 | 12.50 | Vertical | -55.80 | -13.00 | 42.80 | 97 |
| 7 | 5698.00 | -61.55 | 3.40 | 12.50 | Vertical | -54.60 | -13.00 | 41.60 | 109 |
| 8 | 6512.00 | -59.74 | 3.80 | 11.50 | Vertical | -54.19 | -13.00 | 41.19 | 122 |
| 9 | 7326.00 | -56.23 | 4.20 | 12.20 | Vertical | -50.38 | -13.00 | 37.38 | 81 |
| 10 | 8140.00 | -54.02 | 4.30 | 12.30 | Vertical | -48.17 | -13.00 | 35.17 | 43 |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
 2.The worst emission was found in the antenna is Vertical position.



7. Main Test Instruments

| Name | Manufacturer | Type | Serial Number | Calibration Date | Expiration Date |
|--------------------------------------|--------------|------------|---------------|------------------|-----------------|
| Base Station Simulator | R&S | CMW500 | 150415 | 2022-05-14 | 2023-05-13 |
| TRILOG Broadband Antenna | SCHWARZBECK | VULB 9163 | 1023 | 2020-05-05 | 2023-05-04 |
| Spectrum Analyzer | Agilent | N9020A | MY50510203 | 2021-12-12 | 2022-12-11 |
| Universal Radio Communication Tester | Key sight | E5515C | GB44400275 | 2021-12-12 | 2022-12-11 |
| Signal Analyzer | R&S | FSV3030 | 101411 | 2021-12-12 | 2022-12-11 |
| Climatic Chamber | ESPEC | SU-242 | 93000506 | 2021-12-12 | 2022-12-11 |
| Spectrum Analyzer | R&S | FSV30 | 104028 | 2021-12-12 | 2022-12-11 |
| Horn Antenna | Schwarzbeck | BBHA 9120D | 1594 | 2020-12-17 | 2023-12-16 |
| Software | R&S | EMC32 | 10.35.10 | / | / |

*****END OF REPORT *****



ANNEX A: The EUT Appearance

The EUT Appearance is submitted separately.



ANNEX B: Test Setup Photos

The Test Setup Photos is submitted separately.