

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT
INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 22 SUBPART H, PART 24 SUBPART E and PART 27 SUBPART
F, L, H REQUIREMENT

OF

Applicant: Moxa Inc.
4TH FL 135 LANE 235 BAOQIAO RD XINDIAN DISTRICT
NEW TAIPEI CITY 231 TAIWAN

Product Name: Arm-based platform

Brand Name: MOXA

Model No.: UC-8220-T-LX

Model Difference: N/A

Report Number: T190327W11-RP

FCC ID: SLE-UC8200

FCC Rule Part: 2, 22H & 24E & 27F, L, H

Issue Date: Jun. 24, 2019

Date of Test: Apr. 01, 2019 ~ May 30, 2019

Date of EUT Received: Apr. 01, 2019

Issued by: Compliance Certification Services Inc. Wugu Lab.
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The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.26: 2015 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report
The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory).

Henry Chiang
Tested By: _____
Henry Chiang / Engineer

Kevin Tsai
Approved By: _____
Kevin Tsai / Deputy Manager



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Revision History

| Report Number | Revision | Description | Effectuated Page | Issue Date | Revised By |
|---------------|----------|------------------------------|------------------|---------------|------------|
| T190327W11-RP | Rev.00 | Initial creation of document | All | Jun. 11, 2019 | Elle Chang |
| T190327W11-RP | Rev.01 | Updated section 8.5 | Page 112~115 | Jun. 24, 2019 | Elle Chang |

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

| | |
|-------------------|--------------------|
| Product Name: | Arm-based platform |
| Brand Name: | Moxa |
| Model No.: | UC-8220-T-LX |
| Model Difference: | N/A |
| Hardware Version: | N/A |
| Software Version: | N/A |
| Power Supply: | 12~48Vdc |

Antenna Designation

| Vendor | Type | Antenna Part No. | Modulation | Frequency (MHz) | Peak Antenna Gain (dBi) |
|--------|--------|------------------|----------------------|-----------------|-------------------------|
| MOXA | Dipole | ANT-LTEUS-ASM-01 | WCDMA / HSPA Band II | 1852.4 ~ 1907.6 | 2 |
| | | | WCDMA / HSPA Band V | 826.4 ~ 846.6 | 1 |
| | | | LTE Band 2 | 1850 ~ 1910 | 2 |
| | | | LTE Band 4 | 1710 ~ 1755 | 2 |
| | | | LTE Band 5 | 824 ~ 849 | 1 |
| | | | LTE Band 13 | 777 ~ 787 | 1 |
| | | | LTE Band 17 | 704 ~ 716 | 1 |

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1.2. WCDMA / LTE: Cellular Phone Standards Frequency Range

| Operating Frequency (MHz) | |
|---------------------------|-----------------|
| WCDMA / HSPA+ Band II | 1852.4 - 1907.6 |
| WCDMA / HSPA+ Band V | 826.4 - 846.6 |

| LTE Band | BW (MHz) | Operation Frequency (MHz) |
|----------|----------|---------------------------|
| 2 | 1.4 | 1850.7 - 1909.3 |
| | 3 | 1851.5 - 1908.5 |
| | 5 | 1852.5 - 1907.5 |
| | 10 | 1855.0 - 1905.0 |
| | 15 | 1857.5 - 1902.5 |
| | 20 | 1860.0 - 1900.0 |
| 4 | 1.4 | 1710.7 - 1754.3 |
| | 3 | 1711.5 - 1753.5 |
| | 5 | 1712.5 - 1752.5 |
| | 10 | 1715.0 - 1750.0 |
| | 15 | 1717.5 - 1747.5 |
| | 20 | 1720.0 - 1745.0 |
| 5 | 1.4 | 824.7 - 848.3 |
| | 3 | 825.5 - 847.5 |
| | 5 | 826.5 - 846.5 |
| | 10 | 829.0 - 844.0 |
| 13 | 5 | 779.5 - 784.5 |
| | 10 | 782 |
| 17 | 5 | 706.5 - 713.5 |
| | 10 | 709.0 - 711.0 |

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1.3. Type of Emission & Max ERP/EIRP Power Measurement Result:

| | ERP / EIRP (dBm) | | W | Type of Emission |
|---------------|------------------|------|-------|------------------|
| WCDMA Band II | 25.12 | EIRP | 0.325 | 4M13F9W |
| HSDPA Band II | 24.71 | EIRP | 0.296 | 4M14F9W |
| HSUPA Band II | 24.71 | EIRP | 0.296 | 4M14F9W |
| WCDMA Band V | 24.24 | ERP | 0.265 | 4M14F9W |
| HSDPA Band V | 24.16 | ERP | 0.261 | 4M14F9W |
| HSUPA Band V | 24.05 | ERP | 0.254 | 4M12F9W |

| LTE Band | BW | Modulation | ERP / EIRP (dBm) | | (W) | Type of Emission |
|----------|-----|------------|------------------|------|--------------|------------------|
| 2 | 1.4 | QPSK | 25.15 | EIRP | 0.327 | 1M12G7D |
| | | 16QAM | 24.12 | EIRP | 0.258 | 1M12D7W |
| 2 | 3 | QPSK | 25.14 | EIRP | 0.327 | 2M71G7D |
| | | 16QAM | 24.58 | EIRP | 0.287 | 2M71D7W |
| 2 | 5 | QPSK | 25.34 | EIRP | 0.342 | 4M52G7D |
| | | 16QAM | 24.80 | EIRP | 0.302 | 4M52D7W |
| 2 | 10 | QPSK | 25.22 | EIRP | 0.333 | 9M05G7D |
| | | 16QAM | 24.53 | EIRP | 0.284 | 9M00D7W |
| 2 | 15 | QPSK | 25.07 | EIRP | 0.321 | 13M5G7D |
| | | 16QAM | 24.90 | EIRP | 0.309 | 13M5D7W |
| 2 | 20 | QPSK | 26.04 | EIRP | 0.402 | 17M9G7D |
| | | 16QAM | 25.11 | EIRP | 0.324 | 17M9D7W |

| LTE Band | BW | Modulation | ERP / EIRP (dBm) | | (W) | Type of Emission |
|----------|-----|------------|------------------|------|--------------|------------------|
| 4 | 1.4 | QPSK | 26.08 | EIRP | 0.406 | 1M12G7D |
| | | 16QAM | 25.04 | EIRP | 0.319 | 1M11D7W |
| 4 | 3 | QPSK | 25.75 | EIRP | 0.376 | 2M70G7D |
| | | 16QAM | 25.17 | EIRP | 0.329 | 2M72D7W |
| 4 | 5 | QPSK | 26.06 | EIRP | 0.404 | 4M52G7D |
| | | 16QAM | 25.19 | EIRP | 0.330 | 4M52D7W |
| 4 | 10 | QPSK | 26.42 | EIRP | 0.439 | 9M03G7D |
| | | 16QAM | 24.84 | EIRP | 0.305 | 8M99D7W |
| 4 | 15 | QPSK | 26.48 | EIRP | 0.445 | 13M5G7D |
| | | 16QAM | 25.82 | EIRP | 0.382 | 13M5D7W |
| 4 | 20 | QPSK | 26.05 | EIRP | 0.403 | 18M0G7D |
| | | 16QAM | 25.13 | EIRP | 0.326 | 18M0D7W |

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| LTE Band | BW | Modulation | ERP / EIRP (dBm) | | (W) | Type of Emission |
|----------|-----|------------|------------------|-----|--------------|------------------|
| | | | | | | |
| 5 | 1.4 | QPSK | 21.86 | ERP | 0.153 | 1M12G7D |
| | | 16QAM | 21.00 | ERP | 0.126 | 1M11D7W |
| 5 | 3 | QPSK | 21.91 | ERP | 0.155 | 2M71G7D |
| | | 16QAM | 21.17 | ERP | 0.131 | 2M71D7W |
| 5 | 5 | QPSK | 21.85 | ERP | 0.153 | 4M52G7D |
| | | 16QAM | 21.00 | ERP | 0.126 | 4M52D7W |
| 5 | 10 | QPSK | 21.47 | ERP | 0.140 | 9M02G7D |
| | | 16QAM | 21.42 | ERP | 0.139 | 9M01D7W |

| LTE Band | BW | Modulation | ERP / EIRP (dBm) | | (W) | Type of Emission |
|----------|----|------------|------------------|-----|--------------|------------------|
| | | | | | | |
| 13 | 5 | QPSK | 21.81 | ERP | 0.152 | 4M51G7D |
| | | 16QAM | 20.89 | ERP | 0.123 | 4M50D7W |
| 13 | 10 | QPSK | 21.78 | ERP | 0.151 | 8M94G7D |
| | | 16QAM | 20.80 | ERP | 0.120 | 8M92D7W |

| LTE Band | BW | Modulation | ERP / EIRP (dBm) | | (W) | Type of Emission |
|----------|----|------------|------------------|-----|--------------|------------------|
| | | | | | | |
| 17 | 5 | QPSK | 22.31 | ERP | 0.170 | 4M56G7D |
| | | 16QAM | 21.64 | ERP | 0.146 | 4M53D7W |
| 17 | 10 | QPSK | 21.82 | ERP | 0.152 | 9M00G7D |
| | | 16QAM | 20.97 | ERP | 0.125 | 8M97D7W |

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1.4. Test Methodology of Applied Standards

CC 47 CFR Part 2, 22, 24, 27.

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03

KDB941225 D01 SAR test for 3G devices v03r01 (SAR Measurement Procedures for 3G Devices, WCDMA / HSPA) was used for EUT and Base station setting.

TS 151 010-1 is used to set, and measure the output power.

Note: All test items have been performed and record as per the above standards.

1.5. Test Facility

Compliance Certification Services Inc. Wugu Lab. No.11, Wugong 6th Rd.,

Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.) (TAF code 1309)

FCC Designation number: TW1309

1.6. Special Accessories

No special accessories were used during testing.

1.7. Equipment Modifications

There were no modifications incorporated into the EUT.

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2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

2.3. Test Procedure

2.3.1 Conducted Measurement at Antenna Port

According to measurement procured ANSI C63.26-2015, the EUT is placed on a turn table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

2.3.2 Radiated Emissions (ERP/EIRP)

According to measurement procured ANSI C63.26-2015, The EUT is a placed on as turn table, for emission measurements below 1 GHz is 0.8 m above ground plane, for emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna according to the requirements in Section 8 and 13.

2.4. Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.
Following shows an offset computation in physical test.

| | RF cable loss (dB) | Attenuation factor(dB) | offset(dB) |
|-------------------------|--------------------|------------------------|------------|
| Low Band (Below 1GHz) | 3.6 | 10 | 13.6 |
| High Band (Above 1 GHz) | 3.9 | 10 | 13.9 |

2.5. Final Amplifier Voltage and Current Information:

| Test Mode | DC voltage (V) | DC current (mA) |
|-------------|----------------|-----------------|
| WCDMA B2 | 24 | 325 |
| WCDMA B5 | | 334 |
| LTE Band 2 | | 345 |
| LTE Band 4 | | 337 |
| LTE Band 5 | | 335 |
| LTE Band 13 | | 316 |
| LTE Band 17 | | 326 |

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2.6. Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Fixed Channel-Conducted)

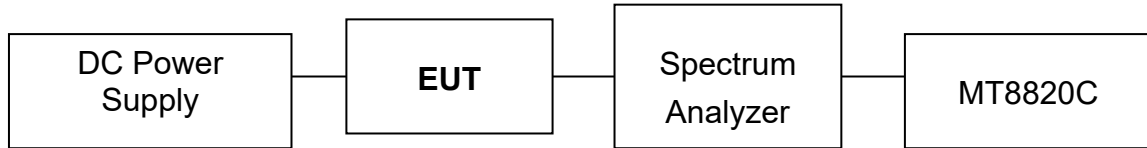


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)

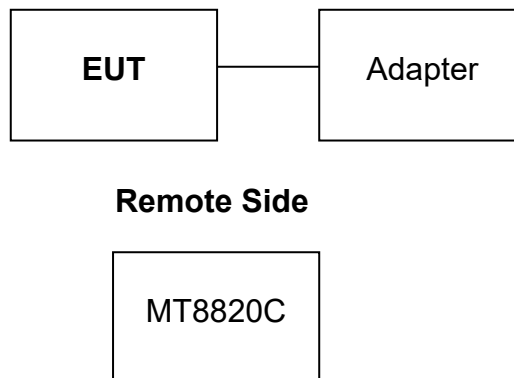


Table 2-1 Equipment Used in Tested System

| Item | Equipment | Mfr/Brand | Model/ Type No. | Series No. | Data Cable | Power Cord |
|------|------------------------------|-----------|--------------------|------------|------------|-------------|
| 1. | Radio Communication Analyser | Anritsu | MT8820C | 6201465317 | shielded | Un-shielded |
| 2. | DC Power Supply | Anritsu | E3640A | MY52410006 | N/A | Unshielded |

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3. SUMMARY OF TEST RESULTS

| FCC Rules | Description Of Test | Result |
|--|---|-----------|
| §2.1046(a) | RF Power Output | Compliant |
| §2.1046(a) §22.913(a)(5) §24.232(c) §27.50(c)(10) 27.50(d)(4) §27.50(h)(2) | ERP/ EIRP measurement | Compliant |
| §2.1049(h) | 99% & 26dB Occupied Bandwidth | Compliant |
| §2.1051 §22.917(a) §24.238(a) §27.53(g) (h) §27.53(m)(4) | Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements | Compliant |
| §2.1053 §22.917(a) §24.238(a) §27.53(g) (h) §27.53(m)(4) | Field Strength of Spurious Radiation | Compliant |
| §24.232(d) | Peak to Average Ratio | Compliant |
| §2.1055(a)(1) §22.355 §24.235 §27.54 | Frequency Stability | Compliant |

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4. DESCRIPTION OF TEST MODES

4.1. The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, X(E1)Y(E2)Z(H) axis and antenna ports. The worst case was found as listed below. Following channel(s) was (were) selected for the final test as listed below:

| BAND | RADIATED EMISSION |
|--------------------|-------------------|
| WCDMA/HSPA Band II | E2-plan |
| WCDMA/HSPA Band V | E2-plan |
| LTE Band 2 | E2-plan |
| LTE Band 4 | E2-plan |
| LTE Band 5 | E2-plan |
| LTE Band 13 | E2-plan |
| LTE Band 17 | E2-plan |

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WCDMA/HSPA MODE

| TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | MODE |
|-----------------------|------------------------------|--------------------------------------|---|
| ERP | 4132 to 4233 | 4132, 4183, 4233 | WCDMA/HSPA Band V |
| EIRP | 9262 to 9538 | 9262, 9400, 9583 | WCDMA/HSPA Band II |
| FREQUENCY STABILITY | 4132 to 4233 9262 to 9538 | 4183 9400 | WCDMA Band II WCDMA Band V |
| OCCUPIED BANDWIDTH | 4132 to 4233 9262 to 9538 | 4132, 4183, 4233 9262, 9400, 9583 | WCDMA/HSPA Band II WCDMA/HSPA Band V |
| PEAK TO AVERAGE RATIO | 4132 to 4233 9262 to 9538 | 4132, 4183, 4233 9262, 9400, 9583 | WCDMA/HSPA Band II WCDMA/HSPA Band V |
| BAND EDGE | 4132 to 4233 9262 to 9538 | 4132, 4233 9262, 9583 | WCDMA Band II WCDMA Band V |
| CONDCUDED EMISSION | 4132 to 4233 9262 to 9538 | 4132, 4183, 4233 9262, 9400, 9583 | WCDMA Band II WCDMA Band V |
| RADIATED EMISSION | 4132 to 4233 9262 to 9538 | 4132, 4183, 4233 9262, 9400, 9583 | WCDMA Band II WCDMA Band V |

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LTE Band 2 MODE

| TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | CHANNEL BANDWIDTH | MODULATION | MODE |
|-----------------------|-------------------|---------------------|-------------------|--------------------|------------------------------|
| EIRP | 18607 to 19193 | 18607, 18900, 19193 | 1.4MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,5 RB Offest |
| | 18615 to 19185 | 18615, 18900, 19185 | 3MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,14 RB Offest |
| | 18625 to 19175 | 18625, 18900, 19175 | 5MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,24 RB Offest |
| | 18650 to 19150 | 18650, 18900, 19150 | 10MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,49 RB Offest |
| | 18675 to 19125 | 18675, 18900, 19125 | 15MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,74 RB Offest |
| | 18700 to 19100 | 18700, 18900, 19100 | 20MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,99 RB Offest |
| FREQUENCY STABILITY | 18650 to 19150 | 18900 | 10MHz | QPSK, | Full RB |
| OCCUPIED BANDWIDTH | 18607 to 19193 | 18607, 18900, 19193 | 1.4MHz | QPSK, 16QAM, 64QAM | Full RB |
| | 18615 to 19185 | 18615, 18900, 19185 | 3MHz | QPSK, 16QAM, 64QAM | Full RB |
| | 18625 to 19175 | 18625, 18900, 19175 | 5MHz | QPSK, 16QAM, 64QAM | Full RB |
| | 18650 to 19150 | 18650, 18900, 19150 | 10MHz | QPSK, 16QAM, 64QAM | Full RB |
| | 18675 to 19125 | 18675, 18900, 19125 | 15MHz | QPSK, 16QAM, 64QAM | Full RB |
| | 18700 to 19100 | 18700, 18900, 19100 | 20MHz | QPSK, 16QAM, 64QAM | Full RB |
| PEAK TO AVERAGE RATIO | 18607 to 19193 | 18607, 18900, 19193 | 1.4MHz | 64QAM | Full RB |
| | 18615 to 19185 | 18615, 18900, 19185 | 3MHz | 64QAM | Full RB |
| | 18625 to 19175 | 18625, 18900, 19175 | 5MHz | 64QAM | Full RB |
| | 18650 to 19150 | 18650, 18900, 19150 | 10MHz | 64QAM | Full RB |
| | 18675 to 19125 | 18675, 18900, 19125 | 15MHz | 64QAM | Full RB |
| | 18700 to 19100 | 18700, 18900, 19100 | 20MHz | 64QAM | Full RB |
| BAND EDGE | 18607 to 19193 | 18607, 19193 | 1.4MHz | QPSK, | 1 RB/ 0,5 RB Offes Full RB |
| | 18615 to 19185 | 18615, 19185 | 3MHz | QPSK, | 1 RB/ 0,14 RB Offest Full RB |
| | 18625 to 19175 | 18625, 19175 | 5MHz | QPSK, | 1 RB/ 0,24 RB Offest Full RB |
| | 18650 to 19150 | 18650, 19150 | 10MHz | QPSK, | 1 RB/ 0,49 RB Offest Full RB |
| | 18675 to 19125 | 18675, 19125 | 15MHz | QPSK, | 1 RB/ 0,74 RB Offest Full RB |
| | 18700 to 19100 | 18700, 19100 | 20MHz | QPSK, | 1 RB/ 0,99 RB Offest Full RB |
| CONDCUDED EMISSION | 18607 to 19193 | 18607, 18900, 19193 | 1.4MHz | QPSK, | 1 RB, 0 RB Offest |
| | 18615 to 19185 | 18615, 18900, 19185 | 3MHz | QPSK, | 1 RB, 0 RB Offest |
| | 18625 to 19175 | 18625, 18900, 19175 | 5MHz | QPSK, | 1 RB, 0 RB Offest |
| | 18650 to 19150 | 18650, 18900, 19150 | 10MHz | QPSK, | 1 RB, 0 RB Offest |
| | 18675 to 19125 | 18675, 18900, 19125 | 15MHz | QPSK, | 1 RB, 0 RB Offest |
| | 18700 to 19100 | 18700, 18900, 19100 | 20MHz | QPSK, | 1 RB, 0 RB Offest |
| RADIATED EMIS- SION | 18700 to 19100 | 18700, 18900, 19100 | 20MHz | QPSK | 1 RB, 0 RB Offest |

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LTE Band 4 MODE

| TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | CHANNEL BANDWIDTH | MODULATION | MODE |
|-----------------------|-------------------|---------------------|-------------------|--------------------|------------------------------|
| EIRP | 19957 to 19393 | 19957, 20175, 19393 | 1.4MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,5 RB Offest |
| | 19965 to 22385 | 19965, 20175, 22385 | 3MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,14 RB Offest |
| | 19975 to 20375 | 19975, 20175, 20375 | 5MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,24 RB Offest |
| | 20000 to 20350 | 20000, 20175, 20350 | 10MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,49 RB Offest |
| | 20025 to 20325 | 20025, 20175, 20325 | 15MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,74 RB Offest |
| | 20050 to 20300 | 20050, 20175, 20300 | 20MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,99 RB Offest |
| FREQUENCY STABILITY | 20000 to 20350 | 20175 | 10MHz | QPSK, | Full RB |
| OCCUPIED BANDWIDTH | 19957 to 19393 | 19957, 20175, 19393 | 1.4MHz | QPSK, 16QAM, 64QAM | Full RB |
| | 19965 to 22385 | 19965, 20175, 22385 | 3MHz | QPSK, 16QAM, 64QAM | Full RB |
| | 19975 to 20375 | 19975, 20175, 20375 | 5MHz | QPSK, 16QAM, 64QAM | Full RB |
| | 20000 to 20350 | 20000, 20175, 20350 | 10MHz | QPSK, 16QAM, 64QAM | Full RB |
| | 20025 to 20325 | 20025, 20175, 20325 | 15MHz | QPSK, 16QAM, 64QAM | Full RB |
| | 20050 to 20300 | 20050, 20175, 20300 | 20MHz | QPSK, 16QAM, 64QAM | Full RB |
| PEAK TO AVERAGE RATIO | 19957 to 19393 | 19957, 20175, 19393 | 1.4MHz | 64QAM | Full RB |
| | 19965 to 22385 | 19965, 20175, 22385 | 3MHz | 64QAM | Full RB |
| | 19975 to 20375 | 19975, 20175, 20375 | 5MHz | 64QAM | Full RB |
| | 20000 to 20350 | 20000, 20175, 20350 | 10MHz | 64QAM | Full RB |
| | 20025 to 20325 | 20025, 20175, 20325 | 15MHz | 64QAM | Full RB |
| | 20050 to 20300 | 20050, 20175, 20300 | 20MHz | 64QAM | Full RB |
| BAND EDGE | 19957 to 19393 | 19957, 19393 | 1.4MHz | QPSK, | 1 RB/ 0,5 RB Offes Full RB |
| | 19965 to 22385 | 19965, 22385 | 3MHz | QPSK, | 1 RB/ 0,14 RB Offest Full RB |
| | 19975 to 20375 | 19975, 20375 | 5MHz | QPSK, | 1 RB/ 0,24 RB Offest Full RB |
| | 20000 to 20350 | 20000, 20350 | 10MHz | QPSK, | 1 RB/ 0,49 RB Offest Full RB |
| | 20025 to 20325 | 20025, 20325 | 15MHz | QPSK, | 1 RB/ 0,74 RB Offest Full RB |
| | 20050 to 20300 | 20050, 20300 | 20MHz | QPSK, | 1 RB/ 0,99 RB Offest Full RB |
| CONDCUDED EMISSION | 19957 to 19393 | 19957, 20175, 19393 | 1.4MHz | QPSK, | 1 RB, 0 RB Offest |
| | 19965 to 22385 | 19965, 20175, 22385 | 3MHz | QPSK, | 1 RB, 0 RB Offest |
| | 19975 to 20375 | 19975, 20175, 20375 | 5MHz | QPSK, | 1 RB, 0 RB Offest |
| | 20000 to 20350 | 20000, 20175, 20350 | 10MHz | QPSK, | 1 RB, 0 RB Offest |
| | 20025 to 20325 | 20025, 20175, 20325 | 15MHz | QPSK, | 1 RB, 0 RB Offest |
| | 20050 to 20300 | 20050, 20175, 20300 | 20MHz | QPSK, | 1 RB, 0 RB Offest |
| RADIATED EMIS- SION | 20025 to 20325 | 20025, 20175, 20325 | 15MHz | QPSK, | 1 RB,0 RB Offest |

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LTE Band 5 MODE

| TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | CHANNEL BANDWIDTH | MODULATION | MODE |
|-----------------------|-------------------|---------------------|-------------------|--------------------|------------------------------|
| ERP | 20470 to 20643 | 20470, 20525, 20643 | 1.4MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,5 RB Offest |
| | 20415 to 20635 | 20415, 20525, 20635 | 3MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,14 RB Offest |
| | 20425 to 20625 | 20425, 20525, 20625 | 5MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,24 RB Offest |
| | 20450 to 20600 | 20450, 20525, 20600 | 10MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,49 RB Offest |
| FREQUENCY STABILITY | 20450 to 20600 | 20525 | 10MHz | QPSK | Full RB |
| OCCUPIED BAND-WIDTH | 20470 to 20643 | 20470, 20525, 20643 | 1.4MHz | QPSK, 16QAM, 64QAM | Full RB |
| | 20415 to 20635 | 20415, 20525, 20635 | 3MHz | QPSK, 16QAM, 64QAM | Full RB |
| | 20425 to 20625 | 20425, 20525, 20625 | 5MHz | QPSK, 16QAM, 64QAM | Full RB |
| | 20450 to 20600 | 20450, 20525, 20600 | 10MHz | QPSK, 16QAM, 64QAM | Full RB |
| PEAK TO AVERAGE RATIO | 20470 to 20643 | 20470, 20525, 20643 | 1.4MHz | 64QAM | Full RB |
| | 20415 to 20635 | 20415, 20525, 20635 | 3MHz | 64QAM | Full RB |
| | 20425 to 20625 | 20425, 20525, 20625 | 5MHz | 64QAM | Full RB |
| | 20450 to 20600 | 20450, 20525, 20600 | 10MHz | 64QAM | Full RB |
| BAND EDGE | 20470 to 20643 | 20470, 20643 | 1.4MHz | QPSK | 1 RB/ 0,5 RB Offes Full RB |
| | 20415 to 20635 | 20415, 20635 | 3MHz | QPSK | 1 RB/ 0,14 RB Offest Full RB |
| | 20425 to 20625 | 20425, 20625 | 5MHz | QPSK | 1 RB/ 0,24 RB Offest Full RB |
| | 20450 to 20600 | 20450, 20600 | 10MHz | QPSK | 1 RB/ 0,49 RB Offest Full RB |
| CONDCUDED EMISSION | 20470 to 20643 | 20470, 20525, 20643 | 1.4MHz | QPSK | 1 RB, 0 RB Offest |
| | 20415 to 20635 | 20415, 20525, 20635 | 3MHz | QPSK | 1 RB, 0 RB Offest |
| | 20425 to 20625 | 20425, 20525, 20625 | 5MHz | QPSK | 1 RB, 0 RB Offest |
| | 20450 to 20600 | 20450, 20525, 20600 | 10MHz | QPSK | 1 RB, 0 RB Offest |
| RADIATED EMISSION | 20415 to 20635 | 20415, 20525, 20635 | 3MHz | QPSK | 1 RB, 14 RB Offest |

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LTE Band 13 MODE

| TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | CHANNEL BANDWIDTH | MODULATION | MODE |
|-----------------------|-------------------|---------------------|-------------------|--------------------|---------------------------------|
| ERP | 23205 to 23255 | 23205, 23230, 23255 | 5MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,24 RB Offest |
| | 23230 | 23230 | 10MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,49 RB Offest |
| FREQUENCY STABILITY | 23230 | 23230 | 10MHz | QPSK, | Full RB |
| OCCUPIED BANDWIDTH | 23205 to 23255 | 23205, 23230, 23255 | 5MHz | QPSK, 16QAM, 64QAM | Full RB |
| | 23230 | 23230 | 10MHz | QPSK, 16QAM, 64QAM | Full RB |
| PEAK TO AVERAGE RATIO | 23205 to 23255 | 23205, 23230, 23255 | 5MHz | 64QAM | Full RB |
| | 23230 | 23230 | 10MHz | 64QAM | Full RB |
| BAND EDGE | 23205 to 23255 | 23205, 23255 | 5MHz | QPSK, | 1 RB/ 0,24 RB Offest Full RB |
| | 23230 | 23230 | 10MHz | QPSK, | 1 RB/ 0,49 RB Offest Full RB |
| CONDCUETED EMISSION | 23205 to 23255 | 23205, 23230, 23255 | 5MHz | QPSK, | 1 RB, 0 RB Offest |
| | 23230 | 23230 | 10MHz | QPSK, | 1 RB, 0 RB Offest |
| RADIATED EMISSION | 23205 to 23255 | 23205, 23230, 23255 | 5MHz | QPSK | 1 RB/ 24 RB Offest |

LTE Band 17 MODE

| TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | CHANNEL BANDWIDTH | MODULATION | MODE |
|-----------------------|-------------------|---------------------|-------------------|--------------------|---------------------------------|
| ERP | 23755 to 23825 | 23755, 23790, 23825 | 5MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,24 RB Offest |
| | 23780 to 23800 | 23780, 23790, 23800 | 10MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,49 RB Offest |
| FREQUENCY STABILITY | 23780 to 23800 | 23790 | 10MHz | QPSK | Full RB |
| OCCUPIED BANDWIDTH | 23755 to 23825 | 23755, 23790, 23825 | 5MHz | QPSK, 16QAM, 64QAM | Full RB |
| | 23780 to 23800 | 23780, 23790, 23800 | 10MHz | QPSK, 16QAM, 64QAM | Full RB |
| PEAK TO AVERAGE RATIO | 23755 to 23825 | 23755, 23790, 23825 | 5MHz | 64QAM | Full RB |
| | 23780 to 23800 | 23780, 23790, 23800 | 10MHz | 64QAM | Full RB |
| BAND EDGE | 23755 to 23825 | 23755, 23825 | 5MHz | QPSK | 1 RB/ 0,24 RB Offest Full RB |
| | 23780 to 23800 | 23780, 23800 | 10MHz | QPSK | 1 RB/ 0,49 RB Offest Full RB |
| CONDCUETED EMISSION | 23755 to 23825 | 23755, 23790, 23825 | 5MHz | QPSK | 1 RB, 0 RB Offest |
| | 23780 to 23800 | 23780, 23790, 23800 | 10MHz | QPSK | 1 RB, 0 RB Offest |
| RADIATED EMISSION | 23755 to 23825 | 23755, 23790, 23825 | 5MHz | QPSK | 1 RB, 24 RB Offest |

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5. MEASUREMENT UNCERTAINTY

| Test Items | Uncertainty |
|--|-------------|
| RF Output Power | +/- 1.15 dB |
| 99% Occupied Bandwidth | +/- 0.89% |
| Out of Band Emissions at Antenna Terminals and Band Edge | +/- 0.89 dB |
| Frequency Stability vs. Temperature | +/- 2.64 Hz |
| 3M Semi Anechoic Chamber / 30M~200M | +/- 4.12 dB |
| 3M Semi Anechoic Chamber / 200MHz ~ 1GHz | +/- 4.68 |
| 3M Semi Anechoic Chamber / 1GHz ~ 8GHz | +/- 5.18 |
| 3M Semi Anechoic Chamber / 8GHz ~ 18GHz | +/- 5.47 |
| 3M Semi Anechoic Chamber / 18GHz ~ 26GHz | +/- 3.81 |
| 3M Semi Anechoic Chamber / 26GHz ~ 40GHz | +/- 3.87 |

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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6. RF CONDUCTED OUTPUT POWER MEASUREMENT

6.1. Standard Applicable

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals.

ERP/EIRP LIMIT

According to FCC §2.1046

FCC 22.913(a) (5) mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

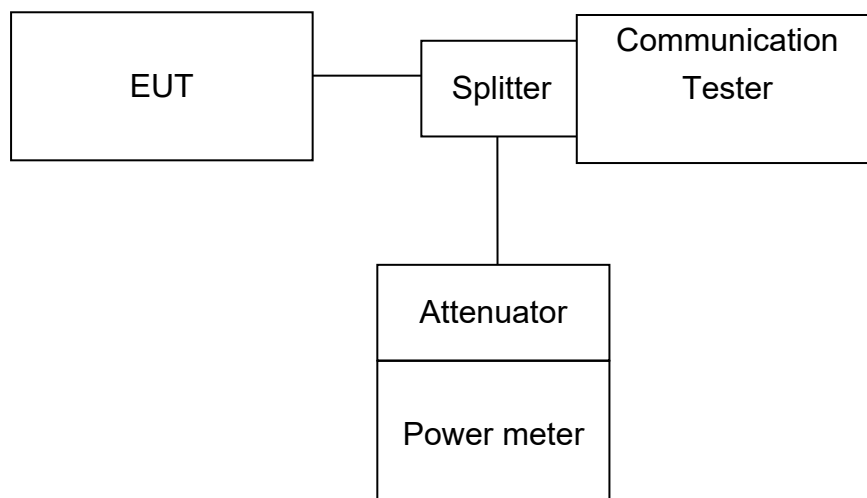
FCC 24.232(b) Mobile and portable stations are limited to 2 W EIRP.

FCC 27.50(c)(10) Portable stations (hand-held devices) are limited to 3 watts ERP.

FCC 27.50(d)(4) Mobile and portable (hand-held) stations are limited to 1 watts EIRP.

FCC 27, 50(h)(2) Mobile and other user stations. Mobile stations are limited to 2 W EIRP

6.2. Test Set-up



Note: Measurement setup for testing on Antenna connector

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6.3. Measurement Procedure

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading. TS 151 010-1 is reference to conduct the test measurement of output power.

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCD-MA/HSPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing, and KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results

All LTE bands conducted average power is obtained from the simulator telecommunication test set.

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP.

TEST PROCEDURE:

ANSI C63.26:2015

KDB 971168 Section 5.6

$$\text{ERP/EIRP} = \text{PMeas} + \text{GT-LC}$$

where: ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);

PMeas = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.2

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

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6.4. Measurement Equipment Used

| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
|-----------------------------|---------|--------------|---------------|------------|------------|
| Radio Communication Analyer | Anritsu | MT8820C | 6201465317 | 01/16/2019 | 01/15/2020 |

6.5. Measurement Result

RF Conducted Output Power WCDMA MODE:

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 V8.4.0 specification. The EUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7). RMC 12.2kps is used for this testing.

Results:

WCDMA/HSUPA/HSDPA Band II Result:

| EUT Mode | Freq. (MHz) | CH | Conducted Avg. Power (dBm) | Antenna Gain (dBi) | ERP (dBm) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|----------|-------------|------|----------------------------|--------------------|-----------|------------|-------------|-------------|
| WCDMA | 1852.4 | 9262 | 21.98 | 2.00 | 21.83 | 23.98 | 33.00 | -9.02 |
| | 1880.0 | 9400 | 23.12 | 2.00 | 22.97 | 25.12 | 33.00 | -7.88 |
| | 1907.6 | 9538 | 23.06 | 2.00 | 22.91 | 25.06 | 33.00 | -7.94 |
| HSDPA | 1852.4 | 9262 | 21.43 | 2.00 | 21.28 | 23.43 | 33.00 | -9.57 |
| | 1880.0 | 9400 | 22.71 | 2.00 | 22.56 | 24.71 | 33.00 | -8.29 |
| | 1907.6 | 9538 | 22.70 | 2.00 | 22.55 | 24.70 | 33.00 | -8.30 |
| HSUPA | 1852.4 | 9262 | 21.47 | 2.00 | 21.32 | 23.47 | 33.00 | -9.53 |
| | 1880.0 | 9400 | 22.56 | 2.00 | 22.41 | 24.56 | 33.00 | -8.44 |
| | 1907.6 | 9538 | 22.71 | 2.00 | 22.56 | 24.71 | 33.00 | -8.29 |

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WCDMA/HSUPA/HSDPA Band V Result:

| EUT Mode | Freq. (MHz) | CH | Conducted Avg. Power (dBm) | Antenna Gain (dBi) | ERP (dBm) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|----------|-------------|------|----------------------------|--------------------|-----------|--------------|-------------|-------------|
| WCDMA | 826.4 | 4132 | 23.24 | 1.00 | 22.09 | 24.24 | 38.50 | -14.26 |
| | 836.6 | 4183 | 22.23 | 1.00 | 21.08 | 23.23 | 38.50 | -15.27 |
| | 846.6 | 4233 | 23.19 | 1.00 | 22.04 | 24.19 | 38.50 | -14.31 |
| HSDPA | 826.4 | 4132 | 23.16 | 1.00 | 22.01 | 24.16 | 38.50 | -14.34 |
| | 836.6 | 4183 | 22.42 | 1.00 | 21.27 | 23.42 | 38.50 | -15.08 |
| | 846.6 | 4233 | 23.15 | 1.00 | 22.00 | 24.15 | 38.50 | -14.35 |
| HSUPA | 826.4 | 4132 | 23.05 | 1.00 | 21.90 | 24.05 | 38.50 | -14.45 |
| | 836.6 | 4183 | 22.45 | 1.00 | 21.30 | 23.45 | 38.50 | -15.05 |
| | 846.6 | 4233 | 23.05 | 1.00 | 21.90 | 24.05 | 38.50 | -14.45 |

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LTE Result:

FDD Band 2

Antenna gain (dBi) 2

| LTE Band 2_Uplink frequency band : 1850 to 1910 MHz | | | | | | | | | |
|---|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 1.4 | 18607 | 1850.7 | QPSK | 1 | 0 | 21.95 | 23.95 | 33 | -9.05 |
| | | | | 1 | 5 | 21.71 | 23.71 | 33 | -9.29 |
| | | | | 3 | 2 | 21.91 | 23.91 | 33 | -9.09 |
| | | | | 6 | 0 | 21.01 | 23.01 | 33 | -9.99 |
| | 18900 | 1880 | QPSK | 1 | 0 | 23.15 | 25.15 | 33 | -7.85 |
| | | | | 1 | 5 | 23.02 | 25.02 | 33 | -7.98 |
| | | | | 3 | 2 | 23.14 | 25.14 | 33 | -7.86 |
| | | | | 6 | 0 | 22.14 | 24.14 | 33 | -8.86 |
| | 19193 | 1909.3 | QPSK | 1 | 0 | 22.71 | 24.71 | 33 | -8.29 |
| | | | | 1 | 5 | 22.51 | 24.51 | 33 | -8.49 |
| | | | | 3 | 2 | 22.60 | 24.60 | 33 | -8.4 |
| | | | | 6 | 0 | 21.61 | 23.61 | 33 | -9.39 |
| | 18607 | 1850.7 | 16QAM | 1 | 0 | 20.98 | 22.98 | 33 | -10.02 |
| | | | | 1 | 5 | 20.32 | 22.32 | 33 | -10.68 |
| | | | | 3 | 2 | 20.94 | 22.94 | 33 | -10.06 |
| | | | | 6 | 0 | 20.06 | 22.06 | 33 | -10.94 |
| | 18900 | 1880 | 16QAM | 1 | 0 | 22.00 | 24.00 | 33 | -9 |
| | | | | 1 | 5 | 21.83 | 23.83 | 33 | -9.17 |
| | | | | 3 | 2 | 22.12 | 24.12 | 33 | -8.88 |
| | | | | 6 | 0 | 21.36 | 23.36 | 33 | -9.64 |
| | 19193 | 1909.3 | 16QAM | 1 | 0 | 22.07 | 24.07 | 33 | -8.93 |
| | | | | 1 | 5 | 21.84 | 23.84 | 33 | -9.16 |
| | | | | 3 | 2 | 21.43 | 23.43 | 33 | -9.57 |
| | | | | 6 | 0 | 20.68 | 22.68 | 33 | -10.32 |

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Antenna gain (dBi) 2

| LTE Band 2_Uplink frequency band : 1850 to 1910 MHz | | | | | | | | | |
|---|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 3 | 18615 | 1851.5 | QPSK | 1 | 0 | 21.86 | 23.86 | 33 | -9.14 |
| | | | | 1 | 14 | 21.76 | 23.76 | 33 | -9.24 |
| | | | | 8 | 4 | 20.98 | 22.98 | 33 | -10.02 |
| | | | | 15 | 0 | 20.89 | 22.89 | 33 | -10.11 |
| | 18900 | 1880 | QPSK | 1 | 0 | 23.14 | 25.14 | 33 | -7.86 |
| | | | | 1 | 14 | 22.90 | 24.90 | 33 | -8.1 |
| | | | | 8 | 4 | 22.12 | 24.12 | 33 | -8.88 |
| | | | | 15 | 0 | 22.18 | 24.18 | 33 | -8.82 |
| | 19185 | 1908.5 | QPSK | 1 | 0 | 22.94 | 24.94 | 33 | -8.06 |
| | | | | 1 | 14 | 22.43 | 24.43 | 33 | -8.57 |
| | | | | 8 | 4 | 21.75 | 23.75 | 33 | -9.25 |
| | | | | 15 | 0 | 21.80 | 23.80 | 33 | -9.2 |
| | 18615 | 1851.5 | 16QAM | 1 | 0 | 21.24 | 23.24 | 33 | -9.76 |
| | | | | 1 | 14 | 21.06 | 23.06 | 33 | -9.94 |
| | | | | 8 | 4 | 19.95 | 21.95 | 33 | -11.05 |
| | | | | 15 | 0 | 19.92 | 21.92 | 33 | -11.08 |
| | 18900 | 1880 | 16QAM | 1 | 0 | 22.58 | 24.58 | 33 | -8.42 |
| | | | | 1 | 14 | 22.30 | 24.30 | 33 | -8.7 |
| | | | | 8 | 4 | 21.32 | 23.32 | 33 | -9.68 |
| | | | | 15 | 0 | 21.19 | 23.19 | 33 | -9.81 |
| | 19185 | 1908.5 | 16QAM | 1 | 0 | 22.18 | 24.18 | 33 | -8.82 |
| | | | | 1 | 14 | 21.67 | 23.67 | 33 | -9.33 |
| | | | | 8 | 4 | 20.98 | 22.98 | 33 | -10.02 |
| | | | | 15 | 0 | 20.97 | 22.97 | 33 | -10.03 |

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Antenna gain (dBi) 2

| LTE Band 2_Uplink frequency band : 1850 to 1910 MHz | | | | | | | | | |
|---|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 5 | 18625 | 1852.5 | QPSK | 1 | 0 | 22.00 | 24.00 | 33 | -9 |
| | | | | 1 | 24 | 21.73 | 23.73 | 33 | -9.27 |
| | | | | 12 | 6 | 20.91 | 22.91 | 33 | -10.09 |
| | | | | 25 | 0 | 20.83 | 22.83 | 33 | -10.17 |
| | 18900 | 1880 | QPSK | 1 | 0 | 23.34 | 25.34 | 33 | -7.66 |
| | | | | 1 | 24 | 22.42 | 24.42 | 33 | -8.58 |
| | | | | 12 | 6 | 22.12 | 24.12 | 33 | -8.88 |
| | | | | 25 | 0 | 22.07 | 24.07 | 33 | -8.93 |
| | 19175 | 1907.5 | QPSK | 1 | 0 | 23.30 | 25.30 | 33 | -7.7 |
| | | | | 1 | 24 | 22.46 | 24.46 | 33 | -8.54 |
| | | | | 12 | 6 | 22.03 | 24.03 | 33 | -8.97 |
| | | | | 25 | 0 | 21.97 | 23.97 | 33 | -9.03 |
| | 18625 | 1852.5 | 16QAM | 1 | 0 | 20.86 | 22.86 | 33 | -10.14 |
| | | | | 1 | 24 | 20.82 | 22.82 | 33 | -10.18 |
| | | | | 12 | 6 | 19.82 | 21.82 | 33 | -11.18 |
| | | | | 25 | 0 | 19.82 | 21.82 | 33 | -11.18 |
| | 18900 | 1880 | 16QAM | 1 | 0 | 22.47 | 24.47 | 33 | -8.53 |
| | | | | 1 | 24 | 21.93 | 23.93 | 33 | -9.07 |
| | | | | 12 | 6 | 21.18 | 23.18 | 33 | -9.82 |
| | | | | 25 | 0 | 21.04 | 23.04 | 33 | -9.96 |
| 19175 | 1907.5 | 16QAM | 1 | 0 | 22.80 | 24.80 | 33 | -8.2 | |
| | | | 1 | 24 | 21.73 | 23.73 | 33 | -9.27 | |
| | | | 12 | 6 | 21.00 | 23.00 | 33 | -10 | |
| | | | 25 | 0 | 20.95 | 22.95 | 33 | -10.05 | |

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Antenna gain (dBi) 2

| LTE Band 2_Uplink frequency band : 1850 to 1910 MHz | | | | | | | | | |
|---|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10 | 18650 | 1855 | QPSK | 1 | 0 | 21.33 | 23.33 | 33 | -9.67 |
| | | | | 1 | 49 | 22.06 | 24.06 | 33 | -8.94 |
| | | | | 25 | 12 | 20.85 | 22.85 | 33 | -10.15 |
| | | | | 50 | 0 | 20.93 | 22.93 | 33 | -10.07 |
| | 18900 | 1880 | QPSK | 1 | 0 | 22.27 | 24.27 | 33 | -8.73 |
| | | | | 1 | 49 | 22.54 | 24.54 | 33 | -8.46 |
| | | | | 25 | 12 | 22.15 | 24.15 | 33 | -8.85 |
| | | | | 50 | 0 | 20.85 | 22.85 | 33 | -10.15 |
| | 19150 | 1905 | QPSK | 1 | 0 | 23.22 | 25.22 | 33 | -7.78 |
| | | | | 1 | 49 | 22.45 | 24.45 | 33 | -8.55 |
| | | | | 25 | 12 | 22.36 | 24.36 | 33 | -8.64 |
| | | | | 50 | 0 | 21.62 | 23.62 | 33 | -9.38 |
| | 18650 | 1855 | 16QAM | 1 | 0 | 21.23 | 23.23 | 33 | -9.77 |
| | | | | 1 | 49 | 21.34 | 23.34 | 33 | -9.66 |
| | | | | 25 | 12 | 19.97 | 21.97 | 33 | -11.03 |
| | | | | 50 | 0 | 19.96 | 21.96 | 33 | -11.04 |
| | 18900 | 1880 | 16QAM | 1 | 0 | 22.53 | 24.53 | 33 | -8.47 |
| | | | | 1 | 49 | 21.55 | 23.55 | 33 | -9.45 |
| | | | | 25 | 12 | 21.10 | 23.10 | 33 | -9.9 |
| | | | | 50 | 0 | 18.92 | 20.92 | 33 | -12.08 |
| | 19150 | 1905 | 16QAM | 1 | 0 | 22.48 | 24.48 | 33 | -8.52 |
| | | | | 1 | 49 | 20.21 | 22.21 | 33 | -10.79 |
| | | | | 25 | 12 | 21.34 | 23.34 | 33 | -9.66 |
| | | | | 50 | 0 | 20.58 | 22.58 | 33 | -10.42 |

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Antenna gain (dBi) 2

| LTE Band 2_Uplink frequency band : 1850 to 1910 MHz | | | | | | | | | |
|---|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 15 | 18675 | 1857.5 | QPSK | 1 | 0 | 22.07 | 24.07 | 33 | -8.93 |
| | | | | 1 | 74 | 22.94 | 24.94 | 33 | -8.06 |
| | | | | 36 | 18 | 20.29 | 22.29 | 33 | -10.71 |
| | | | | 75 | 0 | 21.15 | 23.15 | 33 | -9.85 |
| | 18900 | 1880 | QPSK | 1 | 0 | 23.07 | 25.07 | 33 | -7.93 |
| | | | | 1 | 74 | 22.47 | 24.47 | 33 | -8.53 |
| | | | | 36 | 18 | 22.14 | 24.14 | 33 | -8.86 |
| | | | | 75 | 0 | 22.11 | 24.11 | 33 | -8.89 |
| | 19125 | 1902.5 | QPSK | 1 | 0 | 22.24 | 24.24 | 33 | -8.76 |
| | | | | 1 | 74 | 22.75 | 24.75 | 33 | -8.25 |
| | | | | 36 | 18 | 22.45 | 24.45 | 33 | -8.55 |
| | | | | 75 | 0 | 22.27 | 24.27 | 33 | -8.73 |
| | 18675 | 1857.5 | 16QAM | 1 | 0 | 21.48 | 23.48 | 33 | -9.52 |
| | | | | 1 | 74 | 22.34 | 24.34 | 33 | -8.66 |
| | | | | 36 | 18 | 19.99 | 21.99 | 33 | -11.01 |
| | | | | 75 | 0 | 17.70 | 19.70 | 33 | -13.3 |
| | 18900 | 1880 | 16QAM | 1 | 0 | 22.90 | 24.90 | 33 | -8.1 |
| | | | | 1 | 74 | 21.14 | 23.14 | 33 | -9.86 |
| | | | | 36 | 18 | 21.14 | 23.14 | 33 | -9.86 |
| | | | | 75 | 0 | 18.40 | 20.40 | 33 | -12.6 |
| | 19125 | 1902.5 | 16QAM | 1 | 0 | 20.72 | 22.72 | 33 | -10.28 |
| | | | | 1 | 74 | 22.06 | 24.06 | 33 | -8.94 |
| | | | | 36 | 18 | 21.50 | 23.50 | 33 | -9.5 |
| | | | | 75 | 0 | 21.07 | 23.07 | 33 | -9.93 |

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Antenna gain (dBi) 2

| LTE Band 2_Uplink frequency band : 1850 to 1910 MHz | | | | | | | | | |
|---|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 20 | 18700 | 1860 | QPSK | 1 | 0 | 22.07 | 24.07 | 33 | -8.93 |
| | | | | 1 | 99 | 23.51 | 25.51 | 33 | -7.49 |
| | | | | 50 | 25 | 20.50 | 22.50 | 33 | -10.5 |
| | | | | 100 | 0 | 21.48 | 23.48 | 33 | -9.52 |
| | 18900 | 1880 | QPSK | 1 | 0 | 24.04 | 26.04 | 33 | -6.96 |
| | | | | 1 | 99 | 22.00 | 24.00 | 33 | -9 |
| | | | | 50 | 25 | 22.13 | 24.13 | 33 | -8.87 |
| | 19100 | 1900 | QPSK | 100 | 0 | 22.13 | 24.13 | 33 | -8.87 |
| | | | | 1 | 0 | 21.79 | 23.79 | 33 | -9.21 |
| | | | | 1 | 99 | 23.11 | 25.11 | 33 | -7.89 |
| | 18700 | 1860 | 16QAM | 50 | 25 | 22.24 | 24.24 | 33 | -8.76 |
| | | | | 100 | 0 | 22.07 | 24.07 | 33 | -8.93 |
| | | | | 1 | 0 | 21.35 | 23.35 | 33 | -9.65 |
| | | | | 1 | 99 | 22.03 | 24.03 | 33 | -8.97 |
| | 18900 | 1880 | 16QAM | 50 | 25 | 20.27 | 22.27 | 33 | -10.73 |
| | | | | 100 | 0 | 20.48 | 22.48 | 33 | -10.52 |
| | | | | 1 | 0 | 23.11 | 25.11 | 33 | -7.89 |
| | | | | 1 | 99 | 21.30 | 23.30 | 33 | -9.7 |
| | 19100 | 1900 | 16QAM | 50 | 25 | 19.04 | 21.04 | 33 | -11.96 |
| | | | | 100 | 0 | 21.07 | 23.07 | 33 | -9.93 |
| 1 | | | | 0 | 21.34 | 23.34 | 33 | -9.66 | |
| 1 | | | | 99 | 22.41 | 24.41 | 33 | -8.59 | |
| | | | | 50 | 25 | 21.17 | 23.17 | 33 | -9.83 |
| | | | | 100 | 0 | 20.27 | 22.27 | 33 | -10.73 |
| | | | | | | | | | |

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FDD Band 4

Antenna gain (dBi) 2

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz

| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
|----------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| 1.4 | 19957 | 1710.7 | QPSK | 1 | 0 | 22.81 | 24.81 | 30 | -5.19 |
| | | | | 1 | 5 | 22.78 | 24.78 | 30 | -5.22 |
| | | | | 3 | 2 | 22.80 | 24.80 | 30 | -5.2 |
| | | | | 6 | 0 | 21.80 | 23.80 | 30 | -6.2 |
| | 20175 | 1732.5 | QPSK | 1 | 0 | 24.08 | 26.08 | 30 | -3.92 |
| | | | | 1 | 5 | 23.91 | 25.91 | 30 | -4.09 |
| | | | | 3 | 2 | 23.95 | 25.95 | 30 | -4.05 |
| | | | | 6 | 0 | 22.99 | 24.99 | 30 | -5.01 |
| | 20393 | 1754.3 | QPSK | 1 | 0 | 23.45 | 25.45 | 30 | -4.55 |
| | | | | 1 | 5 | 23.58 | 25.58 | 30 | -4.42 |
| | | | | 3 | 2 | 23.48 | 25.48 | 30 | -4.52 |
| | | | | 6 | 0 | 22.51 | 24.51 | 30 | -5.49 |
| | 19957 | 1710.7 | 16QAM | 1 | 0 | 22.00 | 24.00 | 30 | -6 |
| | | | | 1 | 5 | 21.99 | 23.99 | 30 | -6.01 |
| | | | | 3 | 2 | 21.73 | 23.73 | 30 | -6.27 |
| | | | | 6 | 0 | 20.89 | 22.89 | 30 | -7.11 |
| | 20175 | 1732.5 | 16QAM | 1 | 0 | 23.04 | 25.04 | 30 | -4.96 |
| | | | | 1 | 5 | 22.92 | 24.92 | 30 | -5.08 |
| | | | | 3 | 2 | 22.99 | 24.99 | 30 | -5.01 |
| | | | | 6 | 0 | 22.15 | 24.15 | 30 | -5.85 |
| | 20393 | 1754.3 | 16QAM | 1 | 0 | 22.83 | 24.83 | 30 | -5.17 |
| | | | | 1 | 5 | 23.00 | 25.00 | 30 | -5 |
| | | | | 3 | 2 | 22.53 | 24.53 | 30 | -5.47 |
| | | | | 6 | 0 | 21.61 | 23.61 | 30 | -6.39 |

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Antenna gain (dBi) 2

| LTE Band 4_Uplink frequency band : 1710 to 1755 MHz | | | | | | | | | |
|---|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 3 | 19965 | 1711.5 | QPSK | 1 | 0 | 22.50 | 24.50 | 30 | -5.5 |
| | | | | 1 | 14 | 22.81 | 24.81 | 30 | -5.19 |
| | | | | 8 | 4 | 21.77 | 23.77 | 30 | -6.23 |
| | | | | 15 | 0 | 21.79 | 23.79 | 30 | -6.21 |
| | 20175 | 1732.5 | QPSK | 1 | 0 | 23.61 | 25.61 | 30 | -4.39 |
| | | | | 1 | 14 | 23.75 | 25.75 | 30 | -4.25 |
| | | | | 8 | 4 | 22.98 | 24.98 | 30 | -5.02 |
| | | | | 15 | 0 | 23.02 | 25.02 | 30 | -4.98 |
| | 20385 | 1753.5 | QPSK | 1 | 0 | 23.14 | 25.14 | 30 | -4.86 |
| | | | | 1 | 14 | 23.61 | 25.61 | 30 | -4.39 |
| | | | | 8 | 4 | 22.45 | 24.45 | 30 | -5.55 |
| | | | | 15 | 0 | 22.41 | 24.41 | 30 | -5.59 |
| | 19965 | 1711.5 | 16QAM | 1 | 0 | 21.67 | 23.67 | 30 | -6.33 |
| | | | | 1 | 14 | 21.46 | 23.46 | 30 | -6.54 |
| | | | | 8 | 4 | 20.87 | 22.87 | 30 | -7.13 |
| | | | | 15 | 0 | 20.83 | 22.83 | 30 | -7.17 |
| | 20175 | 1732.5 | 16QAM | 1 | 0 | 23.17 | 25.17 | 30 | -4.83 |
| | | | | 1 | 14 | 23.12 | 25.12 | 30 | -4.88 |
| | | | | 8 | 4 | 21.94 | 23.94 | 30 | -6.06 |
| | | | | 15 | 0 | 22.05 | 24.05 | 30 | -5.95 |
| | 20385 | 1753.5 | 16QAM | 1 | 0 | 22.40 | 24.40 | 30 | -5.6 |
| | | | | 1 | 14 | 22.66 | 24.66 | 30 | -5.34 |
| | | | | 8 | 4 | 21.32 | 23.32 | 30 | -6.68 |
| | | | | 15 | 0 | 21.44 | 23.44 | 30 | -6.56 |

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Antenna gain (dBi) 2

| LTE Band 4_Uplink frequency band : 1710 to 1755 MHz | | | | | | | | | |
|---|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 5 | 19975 | 1712.5 | QPSK | 1 | 0 | 22.80 | 24.80 | 30 | -5.2 |
| | | | | 1 | 24 | 22.88 | 24.88 | 30 | -5.12 |
| | | | | 12 | 6 | 21.80 | 23.80 | 30 | -6.2 |
| | | | | 25 | 0 | 21.78 | 23.78 | 30 | -6.22 |
| | 20175 | 1732.5 | QPSK | 1 | 0 | 24.06 | 26.06 | 30 | -3.94 |
| | | | | 1 | 24 | 23.63 | 25.63 | 30 | -4.37 |
| | | | | 12 | 6 | 23.02 | 25.02 | 30 | -4.98 |
| | | | | 25 | 0 | 22.97 | 24.97 | 30 | -5.03 |
| | 20375 | 1752.5 | QPSK | 1 | 0 | 23.06 | 25.06 | 30 | -4.94 |
| | | | | 1 | 24 | 23.63 | 25.63 | 30 | -4.37 |
| | | | | 12 | 6 | 22.29 | 24.29 | 30 | -5.71 |
| | | | | 25 | 0 | 22.32 | 24.32 | 30 | -5.68 |
| | 19975 | 1712.5 | 16QAM | 1 | 0 | 21.84 | 23.84 | 30 | -6.16 |
| | | | | 1 | 24 | 22.05 | 24.05 | 30 | -5.95 |
| | | | | 12 | 6 | 20.82 | 22.82 | 30 | -7.18 |
| | | | | 25 | 0 | 20.41 | 22.41 | 30 | -7.59 |
| | 20175 | 1732.5 | 16QAM | 1 | 0 | 23.19 | 25.19 | 30 | -4.81 |
| | | | | 1 | 24 | 22.65 | 24.65 | 30 | -5.35 |
| | | | | 12 | 6 | 22.00 | 24.00 | 30 | -6 |
| | | | | 25 | 0 | 21.96 | 23.96 | 30 | -6.04 |
| | 20375 | 1752.5 | 16QAM | 1 | 0 | 22.28 | 24.28 | 30 | -5.72 |
| | | | | 1 | 24 | 22.98 | 24.98 | 30 | -5.02 |
| | | | | 12 | 6 | 21.27 | 23.27 | 30 | -6.73 |
| | | | | 25 | 0 | 21.28 | 23.28 | 30 | -6.72 |

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Antenna gain (dBi) 2

| LTE Band 4_Uplink frequency band : 1710 to 1755 MHz | | | | | | | | | |
|---|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10 | 20000 | 1715 | QPSK | 1 | 0 | 22.77 | 24.77 | 30 | -5.23 |
| | | | | 1 | 49 | 23.38 | 25.38 | 30 | -4.62 |
| | | | | 25 | 12 | 21.16 | 23.16 | 30 | -6.84 |
| | | | | 50 | 0 | 21.22 | 23.22 | 30 | -6.78 |
| | 20175 | 1732.5 | QPSK | 1 | 0 | 24.42 | 26.42 | 30 | -3.58 |
| | | | | 1 | 49 | 21.84 | 23.84 | 30 | -6.16 |
| | | | | 25 | 12 | 23.02 | 25.02 | 30 | -4.98 |
| | | | | 50 | 0 | 22.97 | 24.97 | 30 | -5.03 |
| | 20375 | 1750 | QPSK | 1 | 0 | 23.03 | 25.03 | 30 | -4.97 |
| | | | | 1 | 49 | 21.95 | 23.95 | 30 | -6.05 |
| | | | | 25 | 12 | 21.45 | 23.45 | 30 | -6.55 |
| | | | | 50 | 0 | 22.23 | 24.23 | 30 | -5.77 |
| | 20000 | 1715 | 16QAM | 1 | 0 | 21.92 | 23.92 | 30 | -6.08 |
| | | | | 1 | 49 | 22.64 | 24.64 | 30 | -5.36 |
| | | | | 25 | 12 | 20.92 | 22.92 | 30 | -7.08 |
| | | | | 50 | 0 | 20.91 | 22.91 | 30 | -7.09 |
| | 20175 | 1732.5 | 16QAM | 1 | 0 | 22.70 | 24.70 | 30 | -5.3 |
| | | | | 1 | 49 | 20.91 | 22.91 | 30 | -7.09 |
| | | | | 25 | 12 | 22.04 | 24.04 | 30 | -5.96 |
| | | | | 50 | 0 | 21.24 | 23.24 | 30 | -6.76 |
| 20375 | 1750 | 16QAM | 1 | 0 | 22.21 | 24.21 | 30 | -5.79 | |
| | | | 1 | 49 | 22.84 | 24.84 | 30 | -5.16 | |
| | | | 25 | 12 | 20.38 | 22.38 | 30 | -7.62 | |
| | | | 50 | 0 | 21.21 | 23.21 | 30 | -6.79 | |

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Antenna gain (dBi) 2

| LTE Band 4_Uplink frequency band : 1710 to 1755 MHz | | | | | | | | | |
|---|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 15 | 20025 | 1717.5 | QPSK | 1 | 0 | 22.86 | 24.86 | 30 | -5.14 |
| | | | | 1 | 74 | 23.92 | 25.92 | 30 | -4.08 |
| | | | | 36 | 18 | 21.64 | 23.64 | 30 | -6.36 |
| | | | | 75 | 0 | 22.31 | 24.31 | 30 | -5.69 |
| | 20175 | 1732.5 | QPSK | 1 | 0 | 24.48 | 26.48 | 30 | -3.52 |
| | | | | 1 | 74 | 23.40 | 25.40 | 30 | -4.6 |
| | | | | 36 | 18 | 23.04 | 25.04 | 30 | -4.96 |
| | | | | 75 | 0 | 20.93 | 22.93 | 30 | -7.07 |
| | 20325 | 1747.5 | QPSK | 1 | 0 | 23.22 | 25.22 | 30 | -4.78 |
| | | | | 1 | 74 | 23.69 | 25.69 | 30 | -4.31 |
| | | | | 36 | 18 | 22.12 | 24.12 | 30 | -5.88 |
| | | | | 75 | 0 | 22.19 | 24.19 | 30 | -5.81 |
| | 20025 | 1717.5 | 16QAM | 1 | 0 | 22.24 | 24.24 | 30 | -5.76 |
| | | | | 1 | 74 | 21.32 | 23.32 | 30 | -6.68 |
| | | | | 36 | 18 | 21.16 | 23.16 | 30 | -6.84 |
| | | | | 75 | 0 | 20.85 | 22.85 | 30 | -7.15 |
| | 20175 | 1732.5 | 16QAM | 1 | 0 | 23.82 | 25.82 | 30 | -4.18 |
| | | | | 1 | 74 | 22.76 | 24.76 | 30 | -5.24 |
| | | | | 36 | 18 | 22.07 | 24.07 | 30 | -5.93 |
| | | | | 75 | 0 | 21.77 | 23.77 | 30 | -6.23 |
| 20325 | 1747.5 | 16QAM | 1 | 0 | 22.40 | 24.40 | 30 | -5.6 | |
| | | | 1 | 74 | 22.88 | 24.88 | 30 | -5.12 | |
| | | | 36 | 18 | 20.78 | 22.78 | 30 | -7.22 | |
| | | | 75 | 0 | 21.19 | 23.19 | 30 | -6.81 | |

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Antenna gain (dBi) 2

| LTE Band 4_Uplink frequency band : 1710 to 1755 MHz | | | | | | | | | |
|---|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 20 | 20050 | 1720 | QPSK | 1 | 0 | 22.95 | 24.95 | 30 | -5.05 |
| | | | | 1 | 99 | 24.05 | 26.05 | 30 | -3.95 |
| | | | | 50 | 25 | 18.19 | 20.19 | 30 | -9.81 |
| | | | | 100 | 0 | 22.56 | 24.56 | 30 | -5.44 |
| | 20175 | 1732.5 | QPSK | 1 | 0 | 23.89 | 25.89 | 30 | -4.11 |
| | | | | 1 | 99 | 22.98 | 24.98 | 30 | -5.02 |
| | | | | 50 | 25 | 23.00 | 25.00 | 30 | -5 |
| | | | | 100 | 0 | 23.02 | 25.02 | 30 | -4.98 |
| | 20300 | 1745 | QPSK | 1 | 0 | 23.44 | 25.44 | 30 | -4.56 |
| | | | | 1 | 99 | 22.46 | 24.46 | 30 | -5.54 |
| | | | | 50 | 25 | 22.01 | 24.01 | 30 | -5.99 |
| | | | | 100 | 0 | 22.22 | 24.22 | 30 | -5.78 |
| | 20050 | 1720 | 16QAM | 1 | 0 | 20.70 | 22.70 | 30 | -7.3 |
| | | | | 1 | 99 | 22.75 | 24.75 | 30 | -5.25 |
| | | | | 50 | 25 | 18.13 | 20.13 | 30 | -9.87 |
| | | | | 100 | 0 | 21.52 | 23.52 | 30 | -6.48 |
| | 20175 | 1732.5 | 16QAM | 1 | 0 | 23.13 | 25.13 | 30 | -4.87 |
| | | | | 1 | 99 | 22.31 | 24.31 | 30 | -5.69 |
| | | | | 50 | 25 | 21.95 | 23.95 | 30 | -6.05 |
| | | | | 100 | 0 | 21.98 | 23.98 | 30 | -6.02 |
| 20300 | 1745 | 16QAM | 1 | 0 | 21.80 | 23.80 | 30 | -6.2 | |
| | | | 1 | 99 | 22.87 | 24.87 | 30 | -5.13 | |
| | | | 50 | 25 | 20.79 | 22.79 | 30 | -7.21 | |
| | | | 100 | 0 | 21.18 | 23.18 | 30 | -6.82 | |

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FDD Band 5

| LTE Band 5_Uplink frequency band : 824 to 849 MHz | | | | | | | | | | |
|---|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|------------------|-------------|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 1.4 | 20407 | 824.7 | QPSK | 1 | 0 | 22.81 | 21.66 | 23.81 | 38.45 | -14.64 |
| | | | | 1 | 5 | 22.97 | 21.82 | 23.97 | 38.45 | -14.48 |
| | | | | 3 | 2 | 23.01 | 21.86 | 24.01 | 38.45 | -14.44 |
| | | | | 6 | 0 | 21.94 | 20.79 | 22.94 | 38.45 | -15.51 |
| | 20525 | 836.5 | QPSK | 1 | 0 | 21.86 | 20.71 | 22.86 | 38.45 | -15.59 |
| | | | | 1 | 5 | 22.06 | 20.91 | 23.06 | 38.45 | -15.39 |
| | | | | 3 | 2 | 21.99 | 20.84 | 22.99 | 38.45 | -15.46 |
| | | | | 6 | 0 | 21.21 | 20.06 | 22.21 | 38.45 | -16.24 |
| | 20643 | 848.3 | QPSK | 1 | 0 | 22.77 | 21.62 | 23.77 | 38.45 | -14.68 |
| | | | | 1 | 5 | 22.76 | 21.61 | 23.76 | 38.45 | -14.69 |
| | | | | 3 | 2 | 22.78 | 21.63 | 23.78 | 38.45 | -14.67 |
| | | | | 6 | 0 | 21.82 | 20.67 | 22.82 | 38.45 | -15.63 |
| | 20407 | 824.7 | 16QAM | 1 | 0 | 22.01 | 20.86 | 23.01 | 38.45 | -15.44 |
| | | | | 1 | 5 | 22.12 | 20.97 | 23.12 | 38.45 | -15.33 |
| | | | | 3 | 2 | 21.83 | 20.68 | 22.83 | 38.45 | -15.62 |
| | | | | 6 | 0 | 21.00 | 19.85 | 22.00 | 38.45 | -16.45 |
| | 20525 | 836.5 | 16QAM | 1 | 0 | 20.94 | 19.79 | 21.94 | 38.45 | -16.51 |
| | | | | 1 | 5 | 20.66 | 19.51 | 21.66 | 38.45 | -16.79 |
| | | | | 3 | 2 | 21.16 | 20.01 | 22.16 | 38.45 | -16.29 |
| | | | | 6 | 0 | 20.19 | 19.04 | 21.19 | 38.45 | -17.26 |
| | 20643 | 848.3 | 16QAM | 1 | 0 | 22.15 | 21.00 | 23.15 | 38.45 | -15.3 |
| | | | | 1 | 5 | 22.14 | 20.99 | 23.14 | 38.45 | -15.31 |
| | | | | 3 | 2 | 21.78 | 20.63 | 22.78 | 38.45 | -15.67 |
| | | | | 6 | 0 | 20.96 | 19.81 | 21.96 | 38.45 | -16.49 |

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Antenna gain (dBi) 1

| LTE Band 5_Uplink frequency band : 824 to 849 MHz | | | | | | | | | | |
|---|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|------------------|-------------|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 3 | 20415 | 825.5 | QPSK | 1 | 0 | 22.82 | 21.67 | 23.82 | 38.45 | -14.63 |
| | | | | 1 | 14 | 23.06 | 21.91 | 24.06 | 38.45 | -14.39 |
| | | | | 8 | 4 | 22.24 | 21.09 | 23.24 | 38.45 | -15.21 |
| | | | | 15 | 0 | 22.18 | 21.03 | 23.18 | 38.45 | -15.27 |
| | 20525 | 836.5 | QPSK | 1 | 0 | 21.89 | 20.74 | 22.89 | 38.45 | -15.56 |
| | | | | 1 | 14 | 22.19 | 21.04 | 23.19 | 38.45 | -15.26 |
| | | | | 8 | 4 | 21.19 | 20.04 | 22.19 | 38.45 | -16.26 |
| | 20635 | 847.5 | QPSK | 15 | 0 | 21.16 | 20.01 | 22.16 | 38.45 | -16.29 |
| | | | | 1 | 0 | 22.48 | 21.33 | 23.48 | 38.45 | -14.97 |
| | | | | 1 | 14 | 22.26 | 21.11 | 23.26 | 38.45 | -15.19 |
| | 20415 | 825.5 | 16QAM | 8 | 4 | 21.82 | 20.67 | 22.82 | 38.45 | -15.63 |
| | | | | 15 | 0 | 21.80 | 20.65 | 22.80 | 38.45 | -15.65 |
| | | | | 1 | 0 | 21.47 | 20.32 | 22.47 | 38.45 | -15.98 |
| | 20415 | 825.5 | 16QAM | 1 | 14 | 22.32 | 21.17 | 23.32 | 38.45 | -15.13 |
| | | | | 8 | 4 | 21.09 | 19.94 | 22.09 | 38.45 | -16.36 |
| | | | | 15 | 0 | 21.07 | 19.92 | 22.07 | 38.45 | -16.38 |
| | 20525 | 836.5 | 16QAM | 1 | 0 | 21.07 | 19.92 | 22.07 | 38.45 | -16.38 |
| | | | | 1 | 14 | 21.36 | 20.21 | 22.36 | 38.45 | -16.09 |
| | | | | 8 | 4 | 20.03 | 18.88 | 21.03 | 38.45 | -17.42 |
| | 20525 | 836.5 | 16QAM | 15 | 0 | 19.99 | 18.84 | 20.99 | 38.45 | -17.46 |
| | | | | 1 | 0 | 22.06 | 20.91 | 23.06 | 38.45 | -15.39 |
| | | | | 1 | 14 | 21.74 | 20.59 | 22.74 | 38.45 | -15.71 |
| | 20635 | 847.5 | 16QAM | 8 | 4 | 20.87 | 19.72 | 21.87 | 38.45 | -16.58 |
| | | | | 15 | 0 | 20.83 | 19.68 | 21.83 | 38.45 | -16.62 |

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Antenna gain (dBi) 1

| LTE Band 5_Uplink frequency band : 824 to 849 MHz | | | | | | | | | | |
|---|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|------------------|-------------|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 5 | 20425 | 826.5 | QPSK | 1 | 0 | 23.00 | 21.85 | 24.00 | 38.45 | -14.45 |
| | | | | 1 | 24 | 22.75 | 21.60 | 23.75 | 38.45 | -14.7 |
| | | | | 12 | 6 | 22.24 | 21.09 | 23.24 | 38.45 | -15.21 |
| | | | | 25 | 0 | 22.19 | 21.04 | 23.19 | 38.45 | -15.26 |
| | 20525 | 836.5 | QPSK | 1 | 0 | 22.09 | 20.94 | 23.09 | 38.45 | -15.36 |
| | | | | 1 | 24 | 22.22 | 21.07 | 23.22 | 38.45 | -15.23 |
| | | | | 12 | 6 | 21.20 | 20.05 | 22.20 | 38.45 | -16.25 |
| | | | | 25 | 0 | 21.20 | 20.05 | 22.20 | 38.45 | -16.25 |
| | 20625 | 846.5 | QPSK | 1 | 0 | 22.70 | 21.55 | 23.70 | 38.45 | -14.75 |
| | | | | 1 | 24 | 22.53 | 21.38 | 23.53 | 38.45 | -14.92 |
| | | | | 12 | 6 | 21.82 | 20.67 | 22.82 | 38.45 | -15.63 |
| | | | | 25 | 0 | 21.83 | 20.68 | 22.83 | 38.45 | -15.62 |
| | 20425 | 826.5 | 16QAM | 1 | 0 | 22.15 | 21.00 | 23.15 | 38.45 | -15.3 |
| | | | | 1 | 24 | 21.69 | 20.54 | 22.69 | 38.45 | -15.76 |
| | | | | 12 | 6 | 21.14 | 19.99 | 22.14 | 38.45 | -16.31 |
| | | | | 25 | 0 | 21.07 | 19.92 | 22.07 | 38.45 | -16.38 |
| | 20525 | 836.5 | 16QAM | 1 | 0 | 21.46 | 20.31 | 22.46 | 38.45 | -15.99 |
| | | | | 1 | 24 | 21.54 | 20.39 | 22.54 | 38.45 | -15.91 |
| | | | | 12 | 6 | 20.07 | 18.92 | 21.07 | 38.45 | -17.38 |
| | | | | 25 | 0 | 20.08 | 18.93 | 21.08 | 38.45 | -17.37 |
| | 20625 | 846.5 | 16QAM | 1 | 0 | 22.07 | 20.92 | 23.07 | 38.45 | -15.38 |
| | | | | 1 | 24 | 21.54 | 20.39 | 22.54 | 38.45 | -15.91 |
| | | | | 12 | 6 | 20.80 | 19.65 | 21.80 | 38.45 | -16.65 |
| | | | | 25 | 0 | 20.70 | 19.55 | 21.70 | 38.45 | -16.75 |

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Antenna gain (dBi) 1

| LTE Band 5_Uplink frequency band : 824 to 849 MHz | | | | | | | | | | |
|---|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|------------------|-------------|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10 | 20450 | 829 | QPSK | 1 | 0 | 22.39 | 21.24 | 23.39 | 38.45 | -15.06 |
| | | | | 1 | 49 | 22.35 | 21.20 | 23.35 | 38.45 | -15.1 |
| | | | | 25 | 12 | 21.98 | 20.83 | 22.98 | 38.45 | -15.47 |
| | | | | 50 | 0 | 20.97 | 19.82 | 21.97 | 38.45 | -16.48 |
| | 20525 | 836.5 | QPSK | 1 | 0 | 22.21 | 21.06 | 23.21 | 38.45 | -15.24 |
| | | | | 1 | 49 | 22.62 | 21.47 | 23.62 | 38.45 | -14.83 |
| | | | | 25 | 12 | 21.22 | 20.07 | 22.22 | 38.45 | -16.23 |
| | 20600 | 844 | QPSK | 50 | 0 | 21.32 | 20.17 | 22.32 | 38.45 | -16.13 |
| | | | | 1 | 0 | 22.41 | 21.26 | 23.41 | 38.45 | -15.04 |
| | | | | 1 | 49 | 22.52 | 21.37 | 23.52 | 38.45 | -14.93 |
| | 20450 | 829 | 16QAM | 25 | 12 | 20.83 | 19.68 | 21.83 | 38.45 | -16.62 |
| | | | | 50 | 0 | 21.64 | 20.49 | 22.64 | 38.45 | -15.81 |
| | | | | 1 | 0 | 22.57 | 21.42 | 23.57 | 38.45 | -14.88 |
| | 20525 | 836.5 | 16QAM | 1 | 49 | 21.64 | 20.49 | 22.64 | 38.45 | -15.81 |
| | | | | 25 | 12 | 20.79 | 19.64 | 21.79 | 38.45 | -16.66 |
| | | | | 50 | 0 | 20.87 | 19.72 | 21.87 | 38.45 | -16.58 |
| | 20600 | 844 | 16QAM | 1 | 0 | 21.45 | 20.30 | 22.45 | 38.45 | -16 |
| | | | | 1 | 49 | 21.89 | 20.74 | 22.89 | 38.45 | -15.56 |
| | | | | 25 | 12 | 19.02 | 17.87 | 20.02 | 38.45 | -18.43 |
| | 20450 | 829 | 16QAM | 50 | 0 | 20.19 | 19.04 | 21.19 | 38.45 | -17.26 |
| 1 | | | | 0 | 21.41 | 20.26 | 22.41 | 38.45 | -16.04 | |
| 1 | | | | 49 | 21.51 | 20.36 | 22.51 | 38.45 | -15.94 | |
| 20600 | 844 | 16QAM | 25 | 12 | 20.79 | 19.64 | 21.79 | 38.45 | -16.66 | |
| | | | 50 | 0 | 20.72 | 19.57 | 21.72 | 38.45 | -16.73 | |

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FDD Band 13

Antenna gain (dBi) 1

| LTE Band 13_Uplink frequency band : 777 to 787 MHz | | | | | | | | | | |
|--|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|------------------|-------------|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 5 | 23205 | 779.5 | QPSK | 1 | 0 | 20.81 | 19.66 | 21.81 | 34.77 | -12.96 |
| | | | | 1 | 24 | 22.96 | 21.81 | 23.96 | 34.77 | -10.81 |
| | | | | 12 | 6 | 21.12 | 19.97 | 22.12 | 34.77 | -12.65 |
| | | | | 25 | 0 | 21.28 | 20.13 | 22.28 | 34.77 | -12.49 |
| | 23230 | 782 | QPSK | 1 | 0 | 21.96 | 20.81 | 22.96 | 34.77 | -11.81 |
| | | | | 1 | 24 | 21.91 | 20.76 | 22.91 | 34.77 | -11.86 |
| | | | | 12 | 6 | 21.70 | 20.55 | 22.70 | 34.77 | -12.07 |
| | | | | 25 | 0 | 21.52 | 20.37 | 22.52 | 34.77 | -12.25 |
| | 23255 | 784.5 | QPSK | 1 | 0 | 22.76 | 21.61 | 23.76 | 34.77 | -11.01 |
| | | | | 1 | 24 | 22.48 | 21.33 | 23.48 | 34.77 | -11.29 |
| | | | | 12 | 6 | 20.90 | 19.75 | 21.90 | 34.77 | -12.87 |
| | | | | 25 | 0 | 21.20 | 20.05 | 22.20 | 34.77 | -12.57 |
| | 23205 | 779.5 | 16QAM | 1 | 0 | 20.14 | 18.99 | 21.14 | 34.77 | -13.63 |
| | | | | 1 | 24 | 21.81 | 20.66 | 22.81 | 34.77 | -11.96 |
| | | | | 12 | 6 | 20.02 | 18.87 | 21.02 | 34.77 | -13.75 |
| | | | | 25 | 0 | 20.25 | 19.10 | 21.25 | 34.77 | -13.52 |
| | 23230 | 782 | 16QAM | 1 | 0 | 20.76 | 19.61 | 21.76 | 34.77 | -13.01 |
| | | | | 1 | 24 | 21.02 | 19.87 | 22.02 | 34.77 | -12.75 |
| | | | | 12 | 6 | 20.74 | 19.59 | 21.74 | 34.77 | -13.03 |
| | | | | 25 | 0 | 20.49 | 19.34 | 21.49 | 34.77 | -13.28 |
| 23255 | 784.5 | 16QAM | 1 | 0 | 22.04 | 20.89 | 23.04 | 34.77 | -11.73 | |
| | | | 1 | 24 | 21.94 | 20.79 | 22.94 | 34.77 | -11.83 | |
| | | | 12 | 6 | 20.05 | 18.90 | 21.05 | 34.77 | -13.72 | |
| | | | 25 | 0 | 20.25 | 19.10 | 21.25 | 34.77 | -13.52 | |

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Antenna gain (dBi) 1

| LTE Band 13_Uplink frequency band : 777 to 787 MHz | | | | | | | | | | |
|--|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|------------------|-------------|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10 | 23230 | 782 | QPSK | 1 | 0 | 20.65 | 19.50 | 21.65 | 34.77 | -13.12 |
| | | | | 1 | 49 | 22.93 | 21.78 | 23.93 | 34.77 | -10.84 |
| | | | | 25 | 12 | 20.81 | 19.66 | 21.81 | 34.77 | -12.96 |
| | | | | 50 | 0 | 21.14 | 19.99 | 22.14 | 34.77 | -12.63 |
| | 23230 | 782 | 16QAM | 1 | 0 | 19.96 | 18.81 | 20.96 | 34.77 | -13.81 |
| | | | | 1 | 49 | 21.95 | 20.80 | 22.95 | 34.77 | -11.82 |
| | | | | 25 | 12 | 20.42 | 19.27 | 21.42 | 34.77 | -13.35 |
| | | | | 50 | 0 | 20.12 | 18.97 | 21.12 | 34.77 | -13.65 |

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FDD Band 17

Antenna gain (dBi) 1

| LTE Band 17_Uplink frequency band : 704 to 716 MHz | | | | | | | | | | |
|--|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|------------------|-------------|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 5 | 23755 | 706.5 | QPSK | 1 | 0 | 22.60 | 21.45 | 23.60 | 34.77 | -11.17 |
| | | | | 1 | 24 | 23.46 | 22.31 | 24.46 | 34.77 | -10.31 |
| | | | | 12 | 6 | 22.13 | 20.98 | 23.13 | 34.77 | -11.64 |
| | | | | 25 | 0 | 22.18 | 21.03 | 23.18 | 34.77 | -11.59 |
| | 23790 | 710 | QPSK | 1 | 0 | 23.05 | 21.90 | 24.05 | 34.77 | -10.72 |
| | | | | 1 | 24 | 22.27 | 21.12 | 23.27 | 34.77 | -11.5 |
| | | | | 12 | 6 | 22.30 | 21.15 | 23.30 | 34.77 | -11.47 |
| | | | | 25 | 0 | 22.17 | 21.02 | 23.17 | 34.77 | -11.6 |
| | 23825 | 713.5 | QPSK | 1 | 0 | 23.16 | 22.01 | 24.16 | 34.77 | -10.61 |
| | | | | 1 | 24 | 22.37 | 21.22 | 23.37 | 34.77 | -11.4 |
| | | | | 12 | 6 | 22.31 | 21.16 | 23.31 | 34.77 | -11.46 |
| | | | | 25 | 0 | 22.17 | 21.02 | 23.17 | 34.77 | -11.6 |
| | 23755 | 706.5 | 16QAM | 1 | 0 | 22.05 | 20.90 | 23.05 | 34.77 | -11.72 |
| | | | | 1 | 24 | 22.79 | 21.64 | 23.79 | 34.77 | -10.98 |
| | | | | 12 | 6 | 21.01 | 19.86 | 22.01 | 34.77 | -12.76 |
| | | | | 25 | 0 | 21.06 | 19.91 | 22.06 | 34.77 | -12.71 |
| | 23790 | 710 | 16QAM | 1 | 0 | 22.25 | 21.10 | 23.25 | 34.77 | -11.52 |
| | | | | 1 | 24 | 21.87 | 20.72 | 22.87 | 34.77 | -11.9 |
| | | | | 12 | 6 | 21.15 | 20.00 | 22.15 | 34.77 | -12.62 |
| | | | | 25 | 0 | 21.10 | 19.95 | 22.10 | 34.77 | -12.67 |

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Antenna gain (dBi) 1

| LTE Band 17_Uplink frequency band : 704 to 716 MHz | | | | | | | | | | |
|--|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|------------------|-------------|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10 | 23780 | 709 | QPSK | 1 | 0 | 22.54 | 21.39 | 23.54 | 34.77 | -11.23 |
| | | | | 1 | 49 | 21.96 | 20.81 | 22.96 | 34.77 | -11.81 |
| | | | | 25 | 12 | 22.26 | 21.11 | 23.26 | 34.77 | -11.51 |
| | | | | 50 | 0 | 21.84 | 20.69 | 22.84 | 34.77 | -11.93 |
| | 23790 | 710 | QPSK | 1 | 0 | 22.71 | 21.56 | 23.71 | 34.77 | -11.06 |
| | | | | 1 | 49 | 22.14 | 20.99 | 23.14 | 34.77 | -11.63 |
| | | | | 25 | 12 | 22.21 | 21.06 | 23.21 | 34.77 | -11.56 |
| | | | | 50 | 0 | 21.87 | 20.72 | 22.87 | 34.77 | -11.9 |
| | 23800 | 711 | QPSK | 1 | 0 | 22.97 | 21.82 | 23.97 | 34.77 | -10.8 |
| | | | | 1 | 49 | 22.22 | 21.07 | 23.22 | 34.77 | -11.55 |
| | | | | 25 | 12 | 21.92 | 20.77 | 22.92 | 34.77 | -11.85 |
| | | | | 50 | 0 | 21.87 | 20.72 | 22.87 | 34.77 | -11.9 |
| | 23780 | 709 | 16QAM | 1 | 0 | 22.12 | 20.97 | 23.12 | 34.77 | -11.65 |
| | | | | 1 | 49 | 20.65 | 19.50 | 21.65 | 34.77 | -13.12 |
| | | | | 25 | 12 | 21.01 | 19.86 | 22.01 | 34.77 | -12.76 |
| | | | | 50 | 0 | 20.87 | 19.72 | 21.87 | 34.77 | -12.9 |
| | 23790 | 710 | 16QAM | 1 | 0 | 21.52 | 20.37 | 22.52 | 34.77 | -12.25 |
| | | | | 1 | 49 | 21.20 | 20.05 | 22.20 | 34.77 | -12.57 |
| | | | | 25 | 12 | 21.11 | 19.96 | 22.11 | 34.77 | -12.66 |
| | | | | 50 | 0 | 20.93 | 19.78 | 21.93 | 34.77 | -12.84 |
| 23800 | 711 | 16QAM | 1 | 0 | 22.02 | 20.87 | 23.02 | 34.77 | -11.75 | |
| | | | 1 | 49 | 21.15 | 20.00 | 22.15 | 34.77 | -12.62 | |
| | | | 25 | 12 | 20.96 | 19.81 | 21.96 | 34.77 | -12.81 | |
| | | | 50 | 0 | 20.97 | 19.82 | 21.97 | 34.77 | -12.8 | |

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HSDPA Release 6 MODE:

The following 4 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C10.1.4 & C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing.

HSDPA SUB-TEST Setting

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH(FOR HSDPA)

| Sub-test | β_c | β_d | β_d (SF) | β_c/β_d | β_{HS} (Note 1, Note 2) | CM (dB) (Note 3) | MPR (dB) (Note 3) | RMC (Kbps) |
|----------|-------------------|-------------------|-------------------|-------------------|-------------------------------------|---------------------|-------------------------|---------------|
| 1 | 2/15 | 15/15 | 64 | 2/15 | 4/15 | 0.0 | 0.0 | 12.2 |
| 2 | 12/15 (Note 4) | 15/15 (Note 4) | 64 | 12/15 (Note 4) | 24/15 | 1.0 | 0.0 | 12.2 |
| 3 | 15/15 | 8/15 | 64 | 15/8 | 30/15 | 1.5 | 0.5 | 12.2 |
| 4 | 15/15 | 4/15 | 64 | 15/4 | 30/15 | 1.5 | 0.5 | 12.2 |

Note: The recommended HSDPA MPRs are implemented as per following sub-tests.

Results:

| Mode | Sub test | Avg. Power (dBm) Channel | | |
|----------|----------|-----------------------------|---------|---------|
| | | 9262.00 | 9400.00 | 9538.00 |
| HSDPA II | 1 | 21.43 | 22.71 | 22.70 |
| | 2 | 21.46 | 22.69 | 22.71 |
| | 3 | 21.03 | 22.28 | 22.30 |
| | 4 | 21.02 | 22.30 | 22.32 |

| Mode | Sub test | Avg. Power (dBm) Channel | | |
|---------|----------|-----------------------------|---------|---------|
| | | 4132.00 | 4183.00 | 4233.00 |
| HSDPA V | 1 | 23.16 | 22.42 | 23.15 |
| | 2 | 23.09 | 22.41 | 23.10 |
| | 3 | 22.66 | 21.99 | 22.70 |
| | 4 | 22.67 | 22.05 | 22.68 |

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HSPA (HSDPA & HSUPA) Release 6 MODE

The following 5 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing

HSPA SUB-TEST Setting

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH(FOR HSUPA)

| Sub-test | β_c | β_d | β_d (SF) | β_c/β_d | β_{HS} | β_{ec} | β_{ed} | β_{ed} (SF) | β_{ed} (Code s) | CM (dB) | MPR (dB) | AG Index | E-TFCI | RMC (Kbps) |
|----------|----------------|----------------|----------------|-------------------|--------------|--------------|--|-------------------|-----------------------|---------|----------|----------|--------|------------|
| 1 | 11/15 (Note 3) | 15/15 (Note 3) | 64 | 11/15 (Note 3) | 22/15 | 209/225 | 1309/225 | 4 | 1 | 1.0 | 0.0 | 20 | 75 | 12.2 |
| 2 | 6/15 | 15/15 | 64 | 6/15 | 12/15 | 12/15 | 94/75 | 4 | 1 | 3.0 | 2.0 | 12 | 67 | 12.2 |
| 3 | 15/15 | 9/15 | 64 | 15/9 | 30/15 | 30/15 | $\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$ | 4 4 | 2 | 2.0 | 1.0 | 15 | 92 | 12.2 |
| 4 | 2/15 | 15/15 | 64 | 2/15 | 4/15 | 2/15 | 56/75 | 4 | 1 | 3.0 | 2.0 | 17 | 71 | 12.2 |
| 5 | 15/15 (Note 4) | 15/15 (Note 4) | 64 | 15/15 (Note 4) | 30/15 | 24/15 | 134/15 | 4 | 1 | 1.0 | 0.0 | 21 | 81 | 12.2 |

Note: The recommended HSUPA MPRs are implemented as per following sub-tests.

Results:

| Mode | Sub test | Avg. Power (dBm) | | |
|----------|----------|------------------|---------|---------|
| | | Channel | | |
| | | 9262.00 | 9400.00 | 9538.00 |
| HSUPA II | 1 | 21.47 | 22.56 | 22.71 |
| | 2 | 21.45 | 22.64 | 22.68 |
| | 3 | 21.03 | 22.26 | 22.28 |
| | 4 | 21.49 | 22.67 | 22.72 |
| | 5 | 21.01 | 22.25 | 22.24 |

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| Mode | Sub test | Avg. Power (dBm) | | |
|---------|----------|------------------|---------|---------|
| | | Channel | | |
| | | 4132.00 | 4183.00 | 4233.00 |
| HSUPA V | 1 | 23.05 | 22.45 | 23.05 |
| | 2 | 23.07 | 22.41 | 23.08 |
| | 3 | 22.62 | 22.00 | 22.57 |
| | 4 | 23.13 | 22.43 | 23.14 |
| | 5 | 22.62 | 21.96 | 22.57 |

WCDMA/HSDPA/HSUPA band V

The EUT output power was controlled by simulator. Set Communication Tester MT8820C function key “UE Power Control” and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm. Then record the read (see page 15 for measurement data). The min. power was measures by a function key “minimum power” then record the read. It is -52.3dBm. The power variation can be 0.1dB step by setting.

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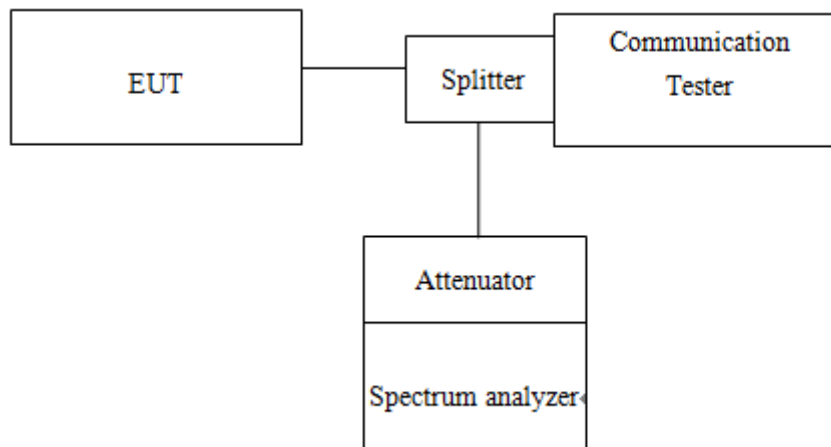
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7. OCCUPIED BANDWIDTH MEASUREMENT

7.1. Standard Applicable

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power.

7.2. Test Set-up



7.3. Measurement Procedure

99% &26dB Bandwidth with detector peak

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW, -26dBc display line was placed on the screen (or 26dB bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. Then set RBW to 99% bandwidth, RBW= 1%, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

99% Bandwidth with detector sample

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% ~ 5% of emission BW, VBW= 3 times RBW, -20dBc display line was placed on the screen (or 20dB bandwidth). Set RBW to 99% bandwidth, RBW= 1% ~ 5%, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

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7.4. Measurement Equipment Used

| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
|------------------------------|-----------|--------------|---------------|------------|------------|
| Spectrum Analyzer | Agilent | N9010A | MY53400256 | 11/21/2018 | 11/20/2019 |
| Radio Communication Analyzer | Anritsu | MT8820C | 6201465317 | 01/16/2019 | 01/15/2020 |
| DC Block | PASTERNAK | PE8210 | RF256 | 02/26/2019 | 02/25/2020 |
| Splitter | Woken | DOM35LW1A2 | RF83 | 02/26/2019 | 02/25/2020 |
| Attenuator | Marvelous | MVE2213-10 | RF80 | 02/26/2019 | 02/25/2020 |

7.5. Measurement Result

| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
|-------------|------|--------------|----------|----------|----------------|----------|----------|
| | | WCDMA II | HSDPA II | HSUPA II | WCDMA II | HSDPA II | HSUPA II |
| 1852.40 | 9262 | 4.13056 | 4.10633 | 4.11710 | 4.710 | 4.659 | 4.661 |
| 1880.00 | 9400 | 4.12167 | 4.10991 | 4.10620 | 4.712 | 4.677 | 4.658 |
| 1907.60 | 9538 | 4.13084 | 4.13623 | 4.13583 | 4.686 | 4.718 | 4.747 |
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | WCDMA V | HSDPA V | HSUPA V | WCDMA V | HSDPA V | HSUPA V |
| 826.40 | 4132 | 4.11314 | 4.09898 | 4.09969 | 4.654 | 4.681 | 4.666 |
| 836.60 | 4183 | 4.14097 | 4.14333 | 4.12174 | 4.687 | 4.685 | 4.679 |
| 846.60 | 4233 | 4.10690 | 4.09859 | 4.11015 | 4.665 | 4.670 | 4.664 |

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| LTE BAND 2 Channel bandwidth: 1.4MHz | | | | | |
|--------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1850.7 | 18607 | 1.1179 | 1.1118 | 1.498 | 1.481 |
| 1880.0 | 18900 | 1.1191 | 1.1150 | 1.512 | 1.482 |
| 1909.3 | 19193 | 1.1163 | 1.1124 | 1.499 | 1.496 |

| LTE BAND 2 Channel bandwidth: 3MHz | | | | | |
|------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1851.5 | 18615 | 2.7054 | 2.7062 | 3.148 | 3.203 |
| 1880.0 | 18900 | 2.7081 | 2.7050 | 3.158 | 3.141 |
| 1908.5 | 19185 | 2.7054 | 2.7088 | 3.163 | 3.195 |

| LTE BAND 2 Channel bandwidth: 5MHz | | | | | |
|------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1852.5 | 18625 | 4.5216 | 4.5126 | 5.331 | 5.446 |
| 1880.0 | 18900 | 4.5134 | 4.5106 | 5.430 | 5.344 |
| 1907.5 | 19175 | 4.5171 | 4.5162 | 5.452 | 5.344 |

| LTE BAND 2 Channel bandwidth: 10MHz | | | | | |
|-------------------------------------|-------|---------------|---------------|----------------|---------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1855.0 | 18650 | 9.0480 | 9.0031 | 11.325 | 10.707 |
| 1880.0 | 18900 | 9.0152 | 8.9923 | 11.495 | 10.305 |
| 1905.0 | 19150 | 9.0316 | 9.0015 | 11.478 | 10.125 |

| LTE BAND 2 Channel bandwidth: 15MHz | | | | | |
|-------------------------------------|-------|---------------|---------------|----------------|---------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1857.5 | 18675 | 13.510 | 13.520 | 16.275 | 16.580 |
| 1880.0 | 18900 | 13.536 | 13.521 | 16.580 | 16.534 |
| 1902.5 | 19125 | 13.510 | 13.520 | 17.091 | 16.456 |

| LTE BAND 2 Channel bandwidth: 20MHz | | | | | |
|-------------------------------------|-------|---------------|---------------|----------------|---------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1860.0 | 18700 | 17.931 | 17.943 | 20.067 | 19.765 |
| 1880.0 | 18900 | 17.915 | 17.933 | 20.175 | 19.923 |
| 1900.0 | 19100 | 17.854 | 17.897 | 20.120 | 19.895 |

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| LTE BAND 4 Channel bandwidth: 1.4MHz | | | | | |
|--------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1710.7 | 19957 | 1.1167 | 1.1134 | 1.499 | 1.457 |
| 1732.5 | 20175 | 1.1164 | 1.1104 | 1.451 | 1.464 |
| 1754.3 | 20393 | 1.1180 | 1.1134 | 1.507 | 1.469 |

| LTE BAND 4 Channel bandwidth: 3MHz | | | | | |
|------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1711.5 | 19965 | 2.7037 | 2.7202 | 3.107 | 2.929 |
| 1732.5 | 20175 | 2.7024 | 2.7178 | 3.149 | 3.160 |
| 1753.5 | 20385 | 2.7038 | 2.7026 | 3.177 | 3.204 |

| LTE BAND 4 Channel bandwidth: 5MHz | | | | | |
|------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1712.5 | 19957 | 4.5196 | 4.5197 | 5.398 | 5.377 |
| 1732.5 | 20175 | 4.5126 | 4.5109 | 5.342 | 5.391 |
| 1752.5 | 20375 | 4.5183 | 4.5141 | 5.453 | 5.349 |

| LTE BAND 4 Channel bandwidth: 10MHz | | | | | |
|-------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1715.0 | 20000 | 9.0268 | 8.9758 | 10.101 | 9.942 |
| 1732.5 | 20175 | 9.0063 | 8.9728 | 9.972 | 9.898 |
| 1750.0 | 20350 | 9.0258 | 8.9857 | 10.010 | 9.926 |

| LTE BAND 4 Channel bandwidth: 15MHz | | | | | |
|-------------------------------------|-------|---------------|---------------|----------------|---------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1717.5 | 20025 | 13.459 | 13.474 | 14.774 | 14.763 |
| 1732.5 | 20175 | 13.463 | 13.470 | 14.762 | 14.722 |
| 1747.5 | 20325 | 13.480 | 13.495 | 14.800 | 14.849 |

| LTE BAND 4 Channel bandwidth: 20MHz | | | | | |
|-------------------------------------|-------|---------------|---------------|----------------|---------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1720.0 | 20050 | 17.885 | 17.902 | 19.353 | 19.326 |
| 1732.5 | 20175 | 17.878 | 17.881 | 19.374 | 19.358 |
| 1745.0 | 20300 | 17.951 | 17.979 | 19.382 | 19.495 |

| LTE BAND 5 Channel bandwidth: 1.4MHz | | | | | |
|--------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 824.7 | 20407 | 1.1152 | 1.1124 | 1.456 | 1.478 |
| 836.5 | 20525 | 1.1163 | 1.1124 | 1.483 | 1.483 |
| 848.3 | 20643 | 1.1168 | 1.1123 | 1.485 | 1.481 |

| LTE BAND 5 Channel bandwidth: 3MHz | | | | | |
|------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 825.5 | 20415 | 2.7036 | 2.7134 | 3.141 | 3.178 |
| 836.5 | 20525 | 2.7082 | 2.7147 | 3.171 | 3.184 |
| 847.5 | 20635 | 2.7124 | 2.7085 | 3.160 | 3.167 |

| LTE BAND 5 Channel bandwidth: 5MHz | | | | | |
|------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 826.5 | 20425 | 4.5068 | 4.4975 | 5.238 | 5.181 |
| 836.5 | 20525 | 4.5153 | 4.5154 | 5.304 | 5.164 |
| 846.5 | 20625 | 4.5059 | 4.5045 | 5.314 | 5.245 |

| LTE BAND 5 Channel bandwidth: 10MHz | | | | | |
|-------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 829.0 | 20450 | 8.9894 | 8.9494 | 9.854 | 9.895 |
| 836.5 | 20525 | 9.0179 | 9.0090 | 9.985 | 9.991 |
| 844.0 | 20600 | 8.9548 | 8.9549 | 9.872 | 9.906 |

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| LTE BAND 13 Channel bandwidth: 5MHz | | | | | |
|-------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 779.5 | 23205 | 4.5028 | 4.4953 | 5.147 | 5.093 |
| 782.0 | 23230 | 4.5056 | 4.5018 | 5.139 | 5.113 |
| 784.5 | 23255 | 4.5067 | 4.4988 | 5.154 | 5.110 |

| LTE BAND 13 Channel bandwidth: 10MHz | | | | | |
|--------------------------------------|-------|--------------|--------------|----------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 782.0 | 23230 | 8.940 | 8.923 | 9.814 | 9.842 |

| LTE BAND 17 Channel bandwidth: 5MHz | | | | | |
|-------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 706.5 | 23755 | 4.5207 | 4.5182 | 5.556 | 5.628 |
| 710.0 | 23790 | 4.5224 | 4.5138 | 5.840 | 5.667 |
| 713.5 | 23825 | 4.5612 | 4.5345 | 6.709 | 6.969 |

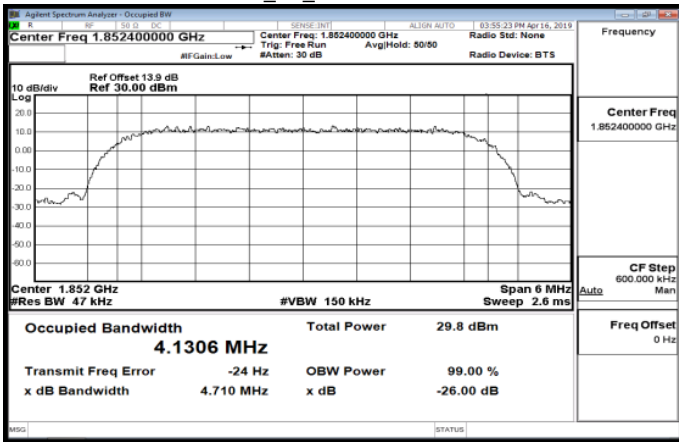
| LTE BAND 17 Channel bandwidth: 10MHz | | | | | |
|--------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 709.0 | 23780 | 8.9588 | 8.9170 | 9.887 | 9.885 |
| 710.0 | 23790 | 8.9878 | 8.9433 | 9.963 | 9.866 |
| 711.0 | 23800 | 8.9998 | 8.9710 | 9.983 | 9.883 |

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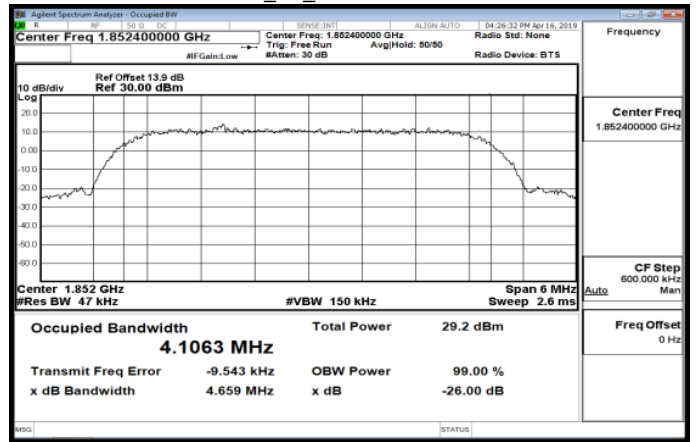
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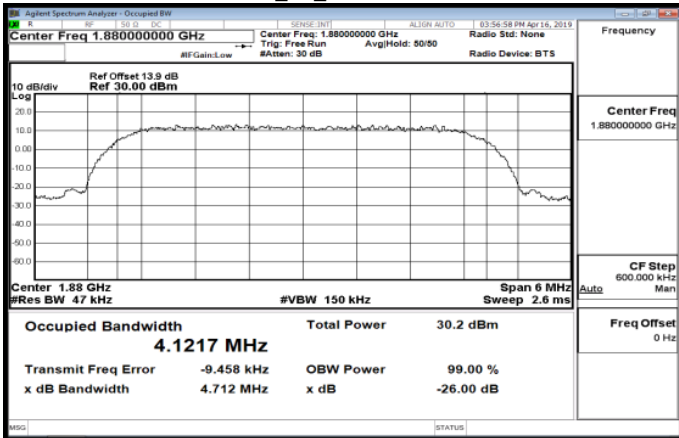
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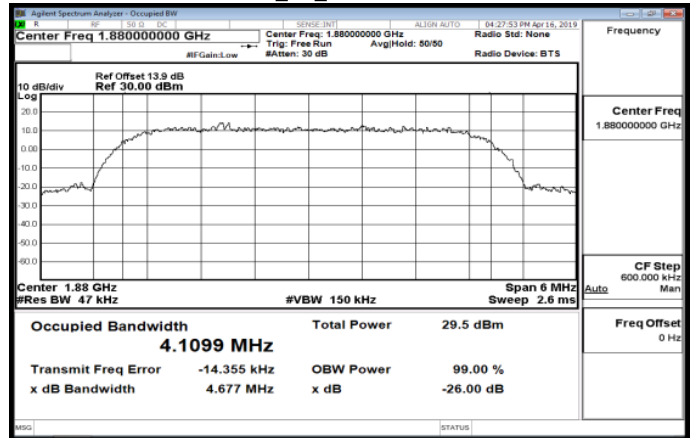
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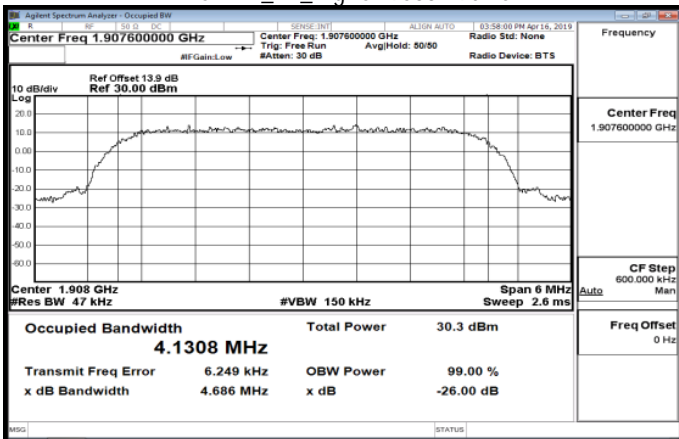
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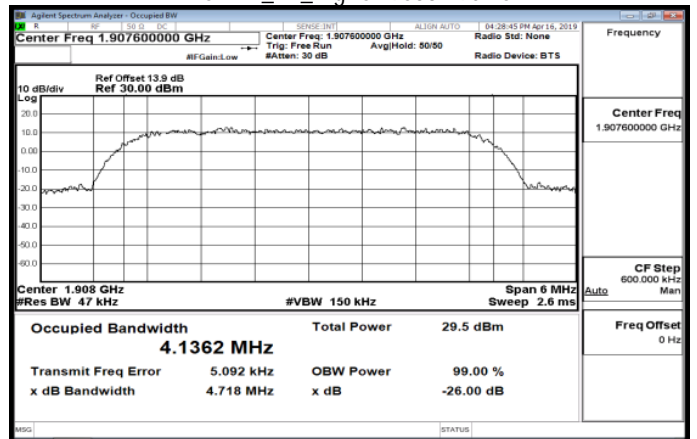
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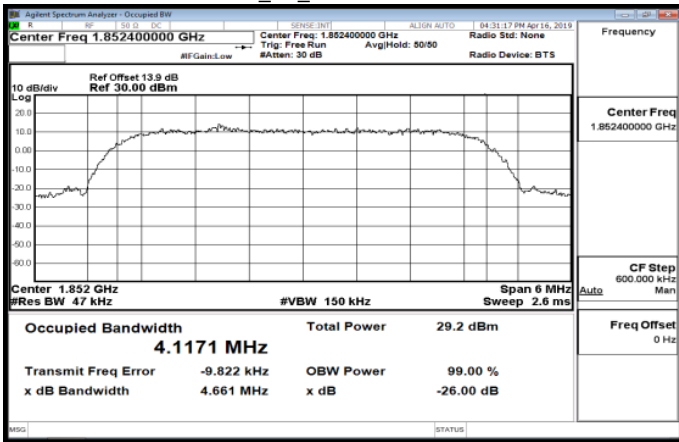


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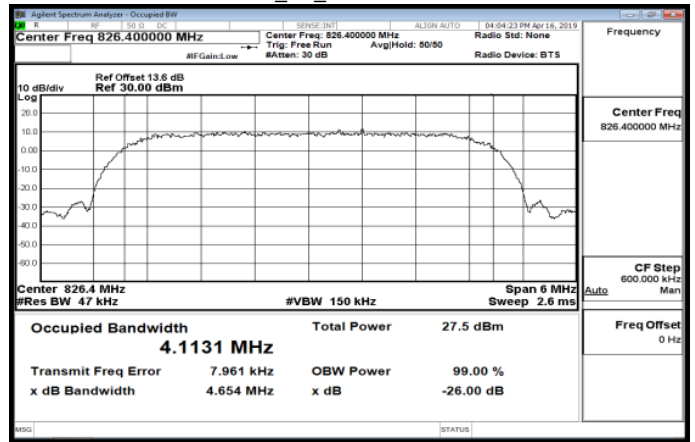
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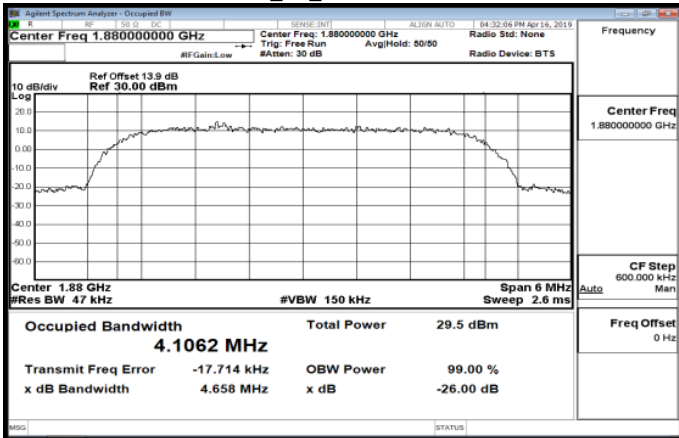
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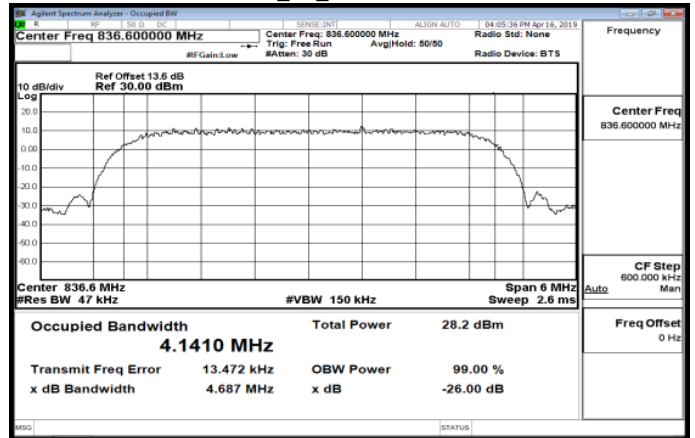
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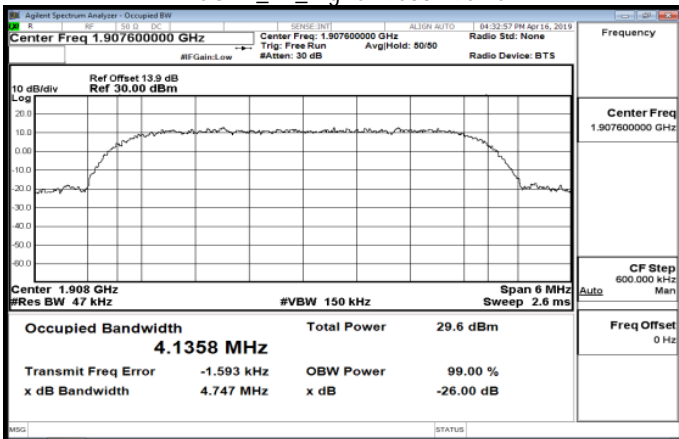
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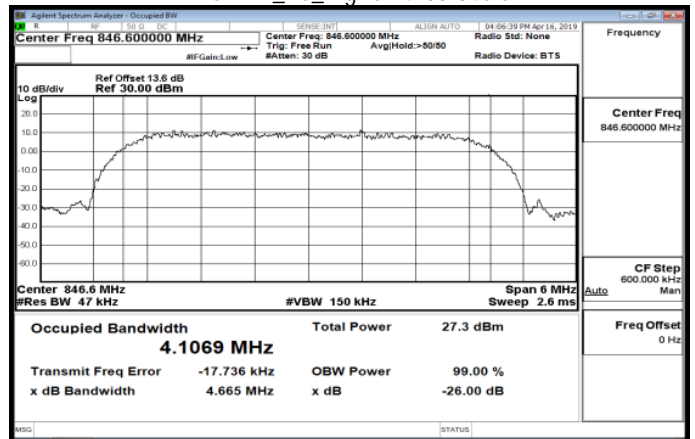
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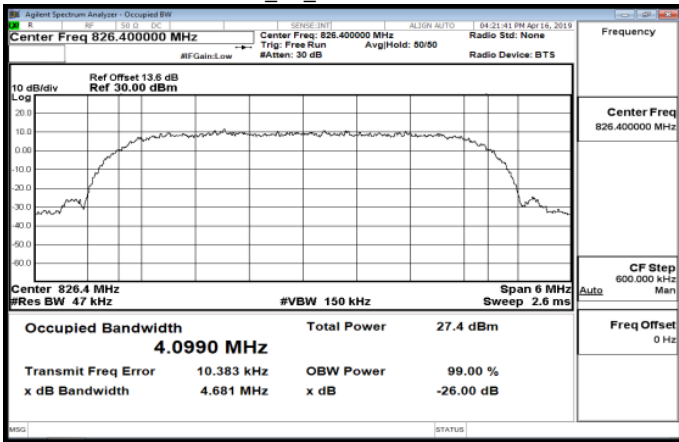


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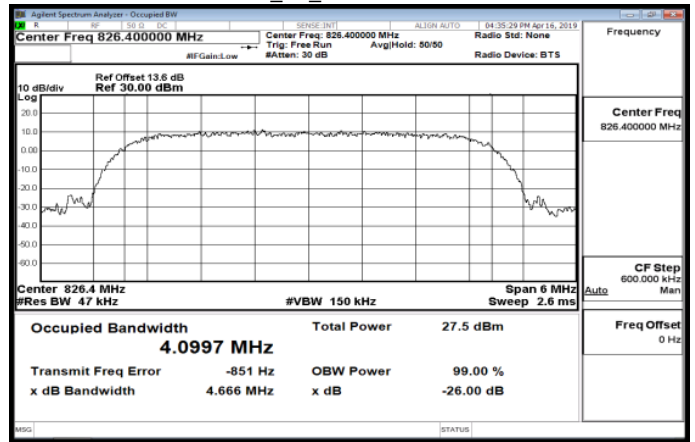
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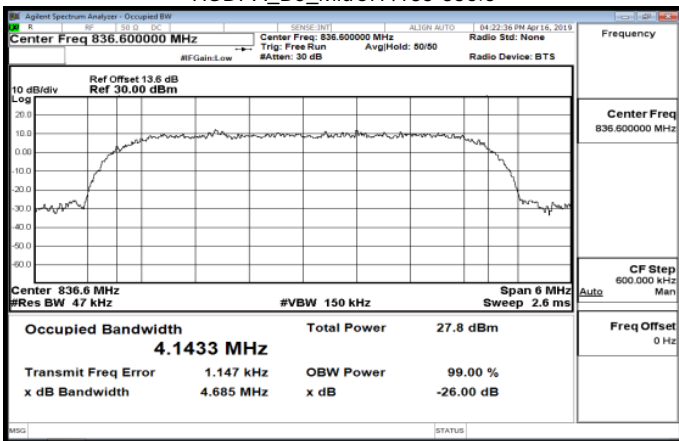
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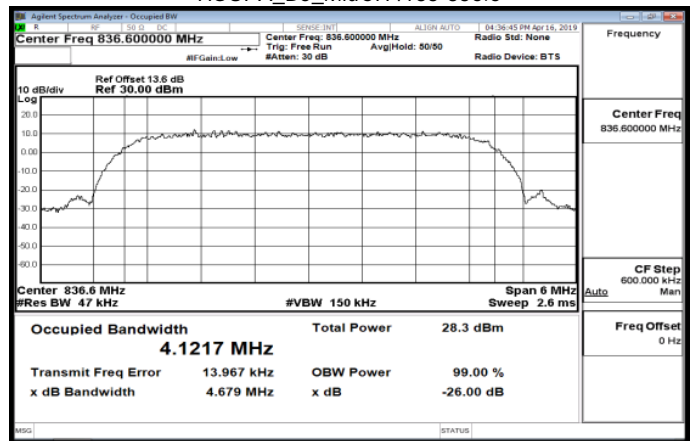
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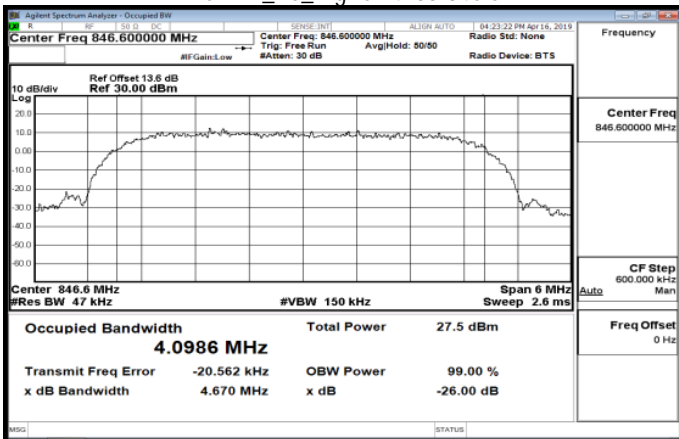
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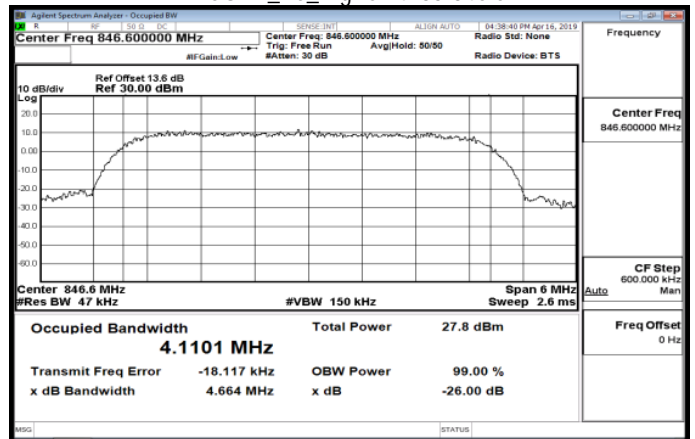
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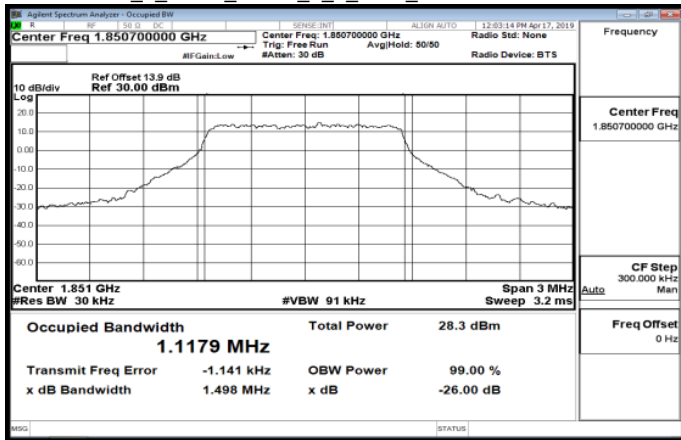


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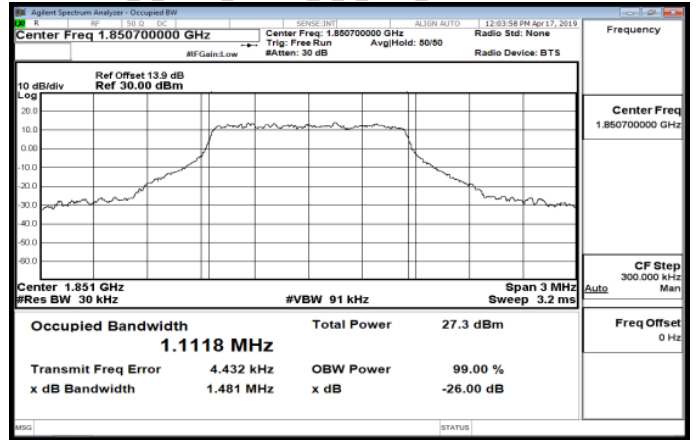
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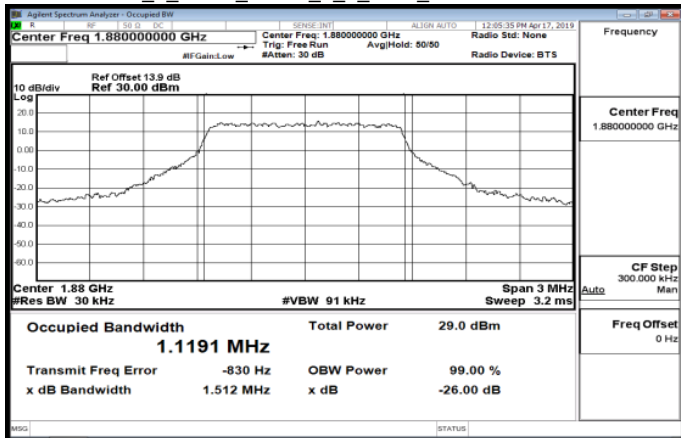
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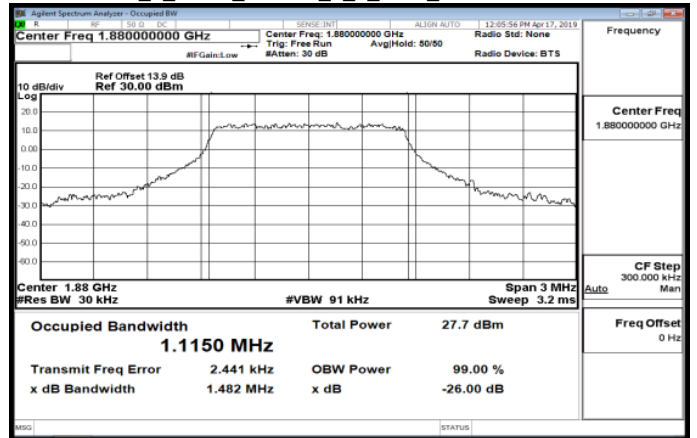
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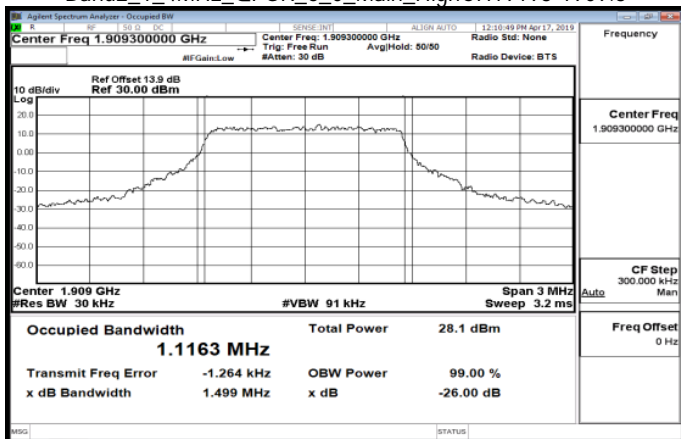
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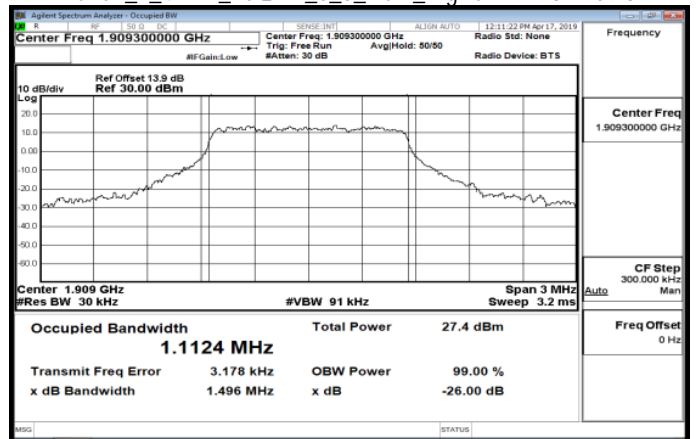
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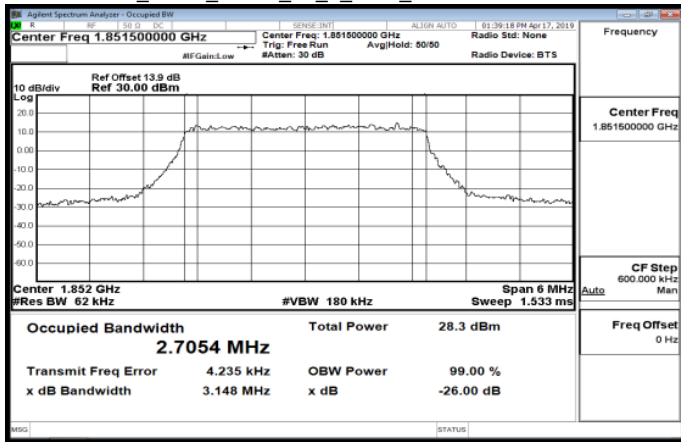


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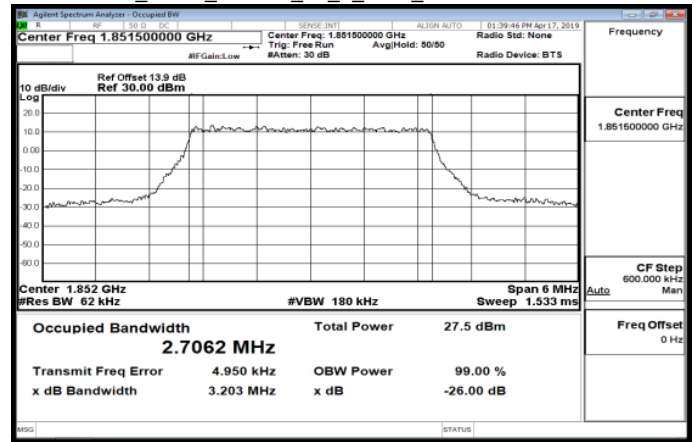
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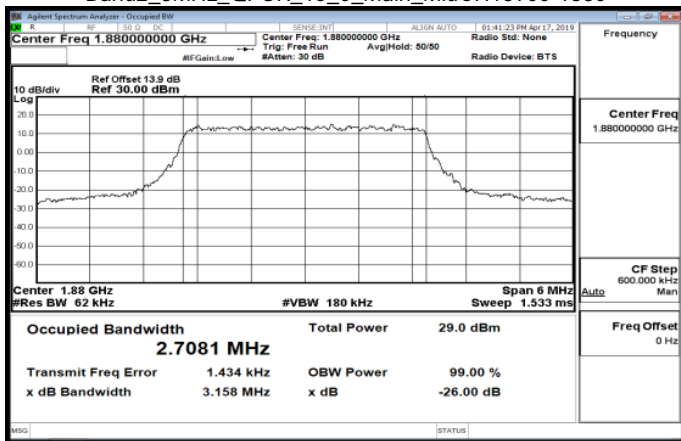
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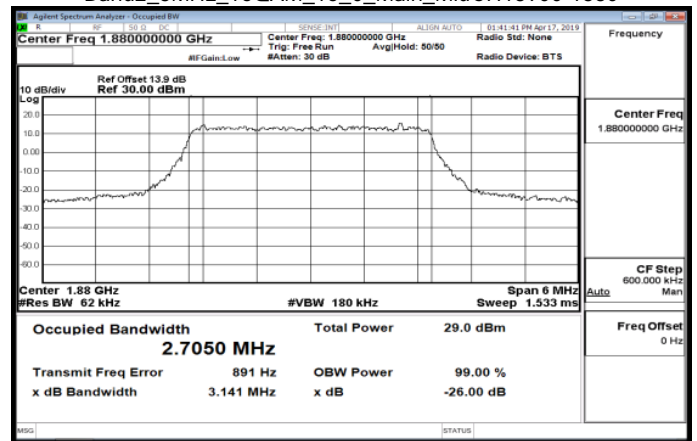
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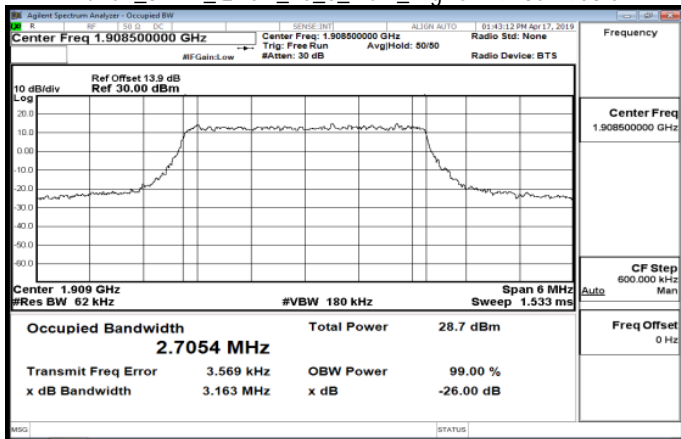
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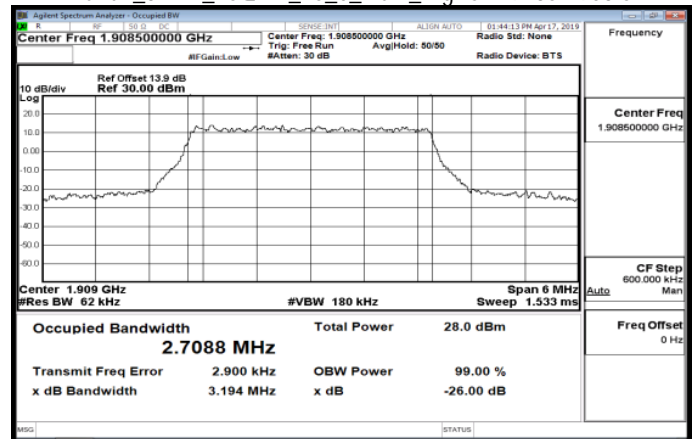
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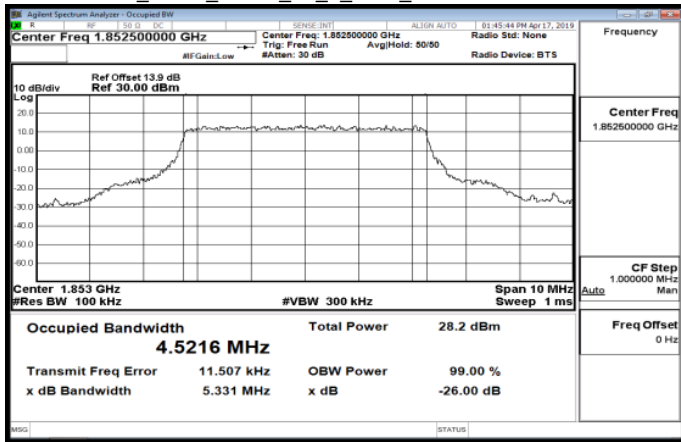


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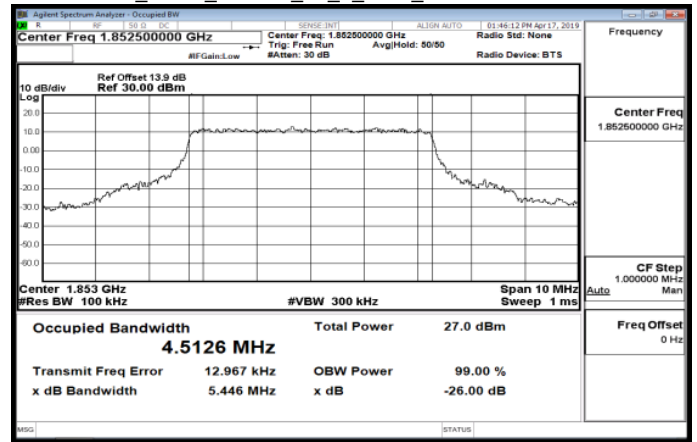
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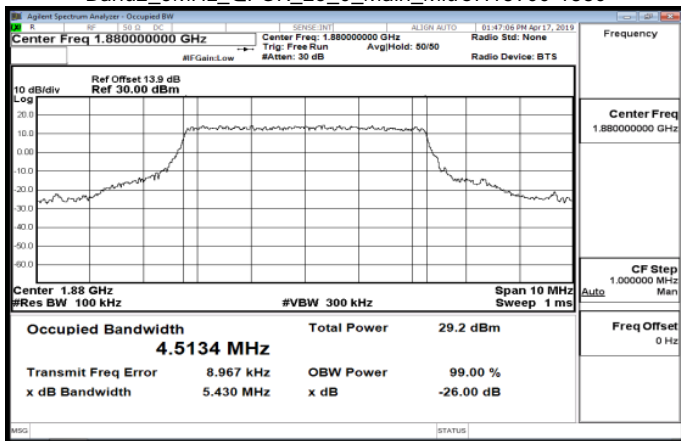
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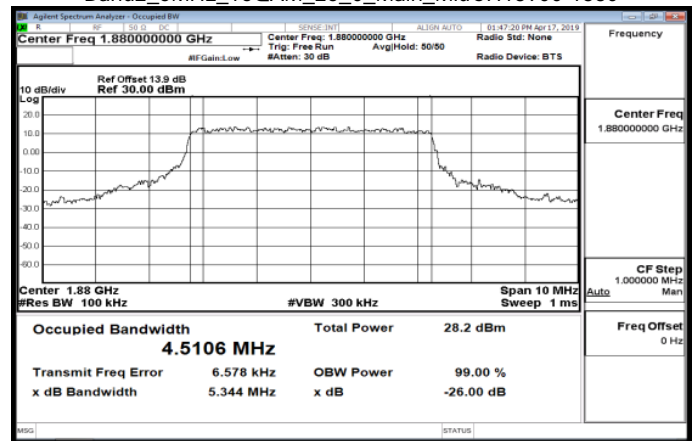
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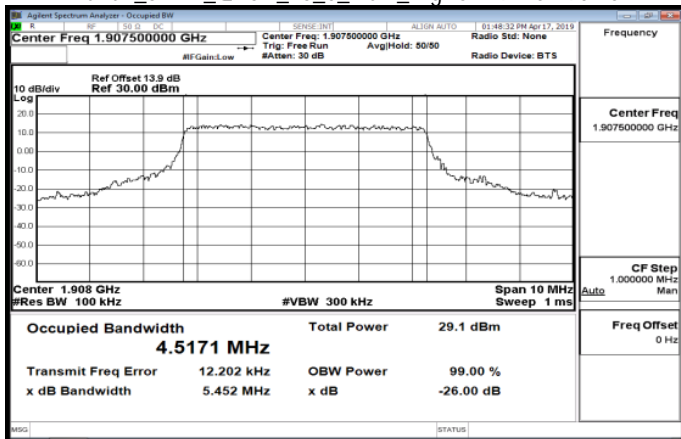
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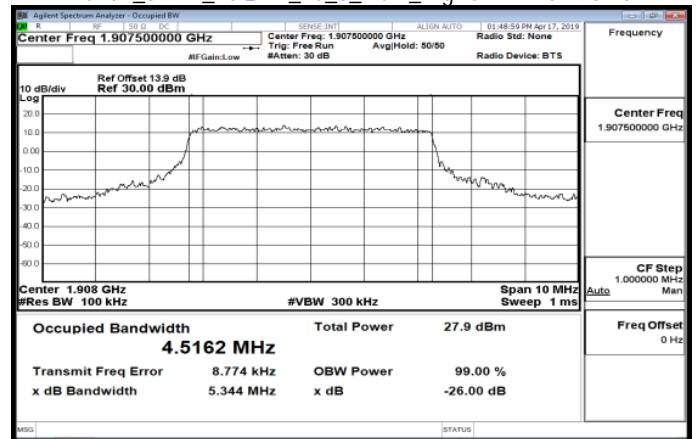
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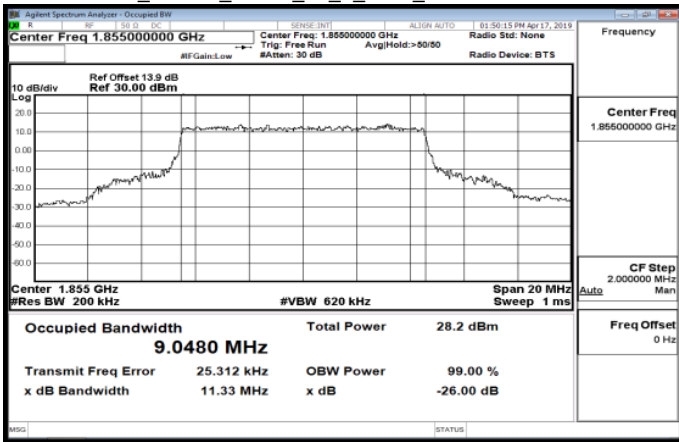


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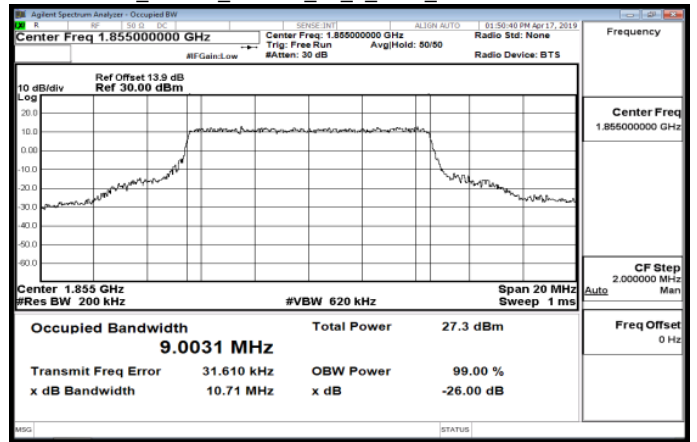
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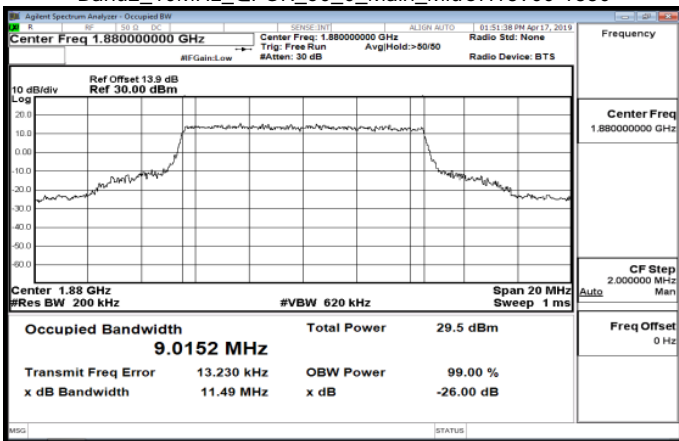
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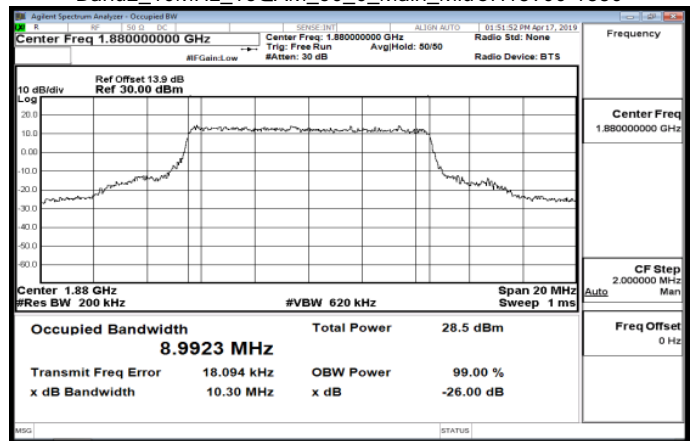
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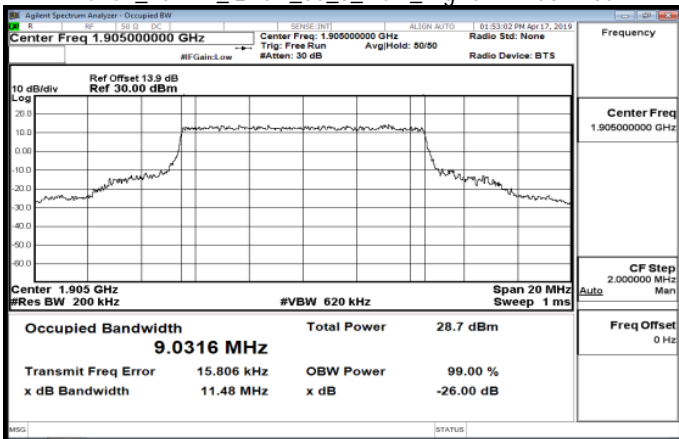
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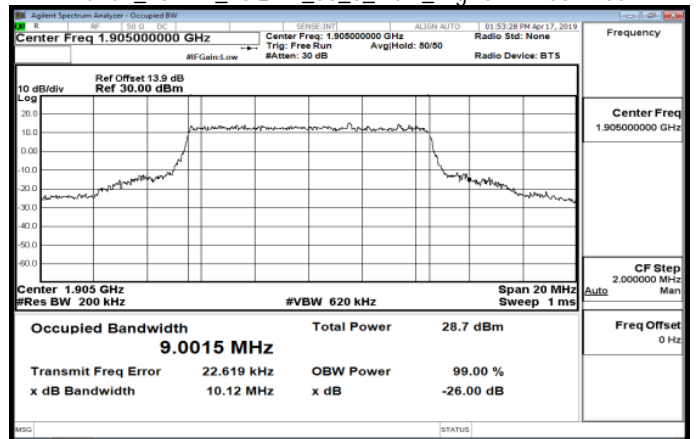
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Band2_10MHz_QPSK_50_0_Main_HighCH19150-1905



Band2_10MHz_16QAM_50_0_Main_HighCH19150-1905

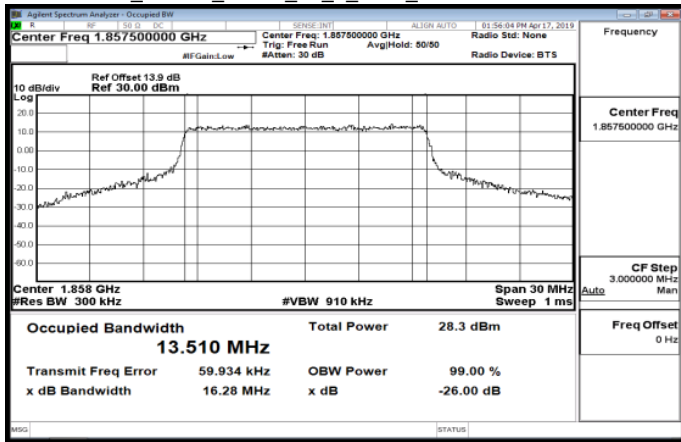


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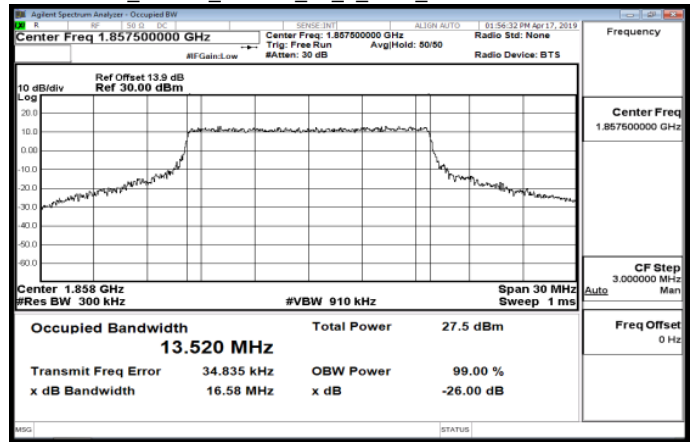
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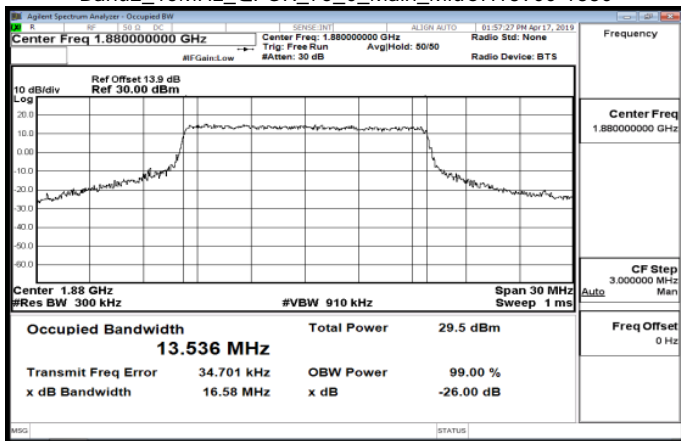
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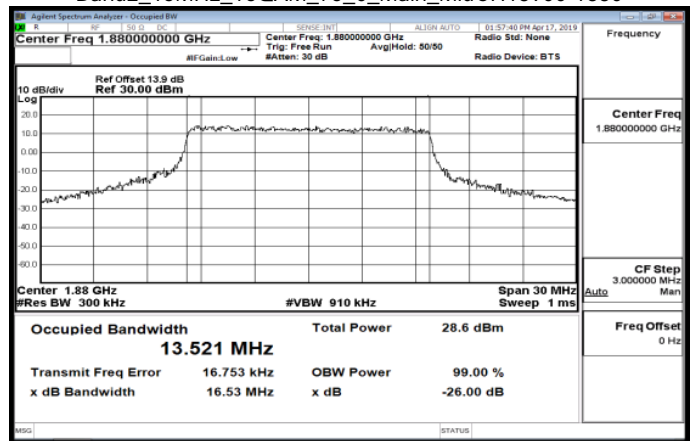
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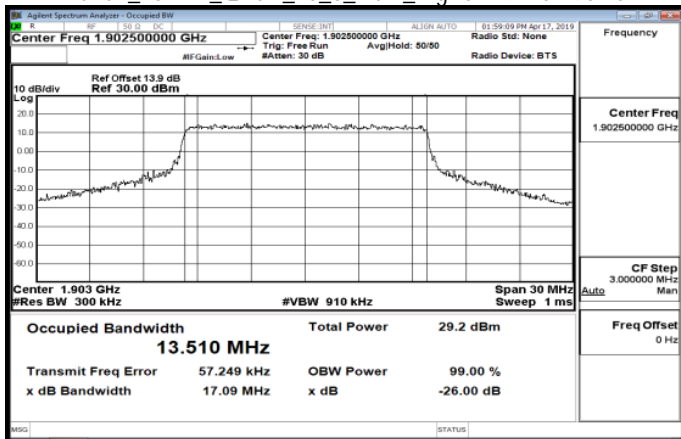
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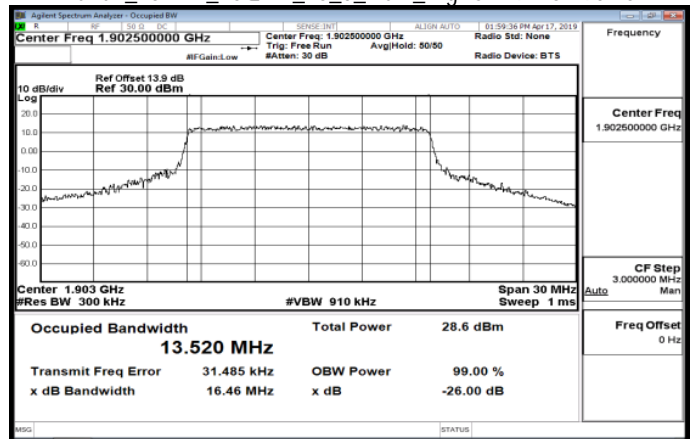
Band2_15MHz_16QAM_75_0_Main_MidCH18900-1880



Band2_15MHz_QPSK_75_0_Main_HighCH19125-1902.5



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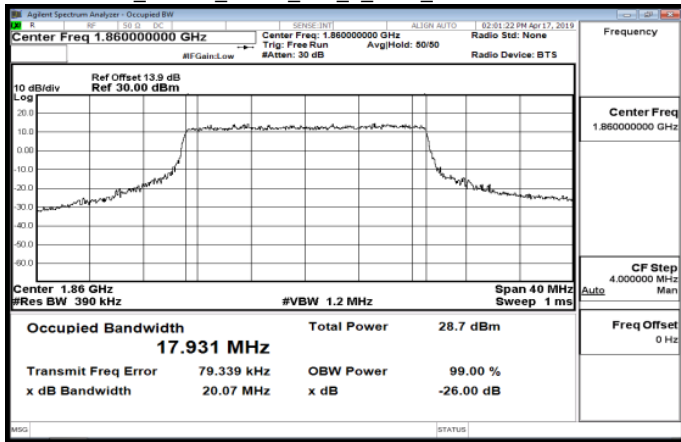


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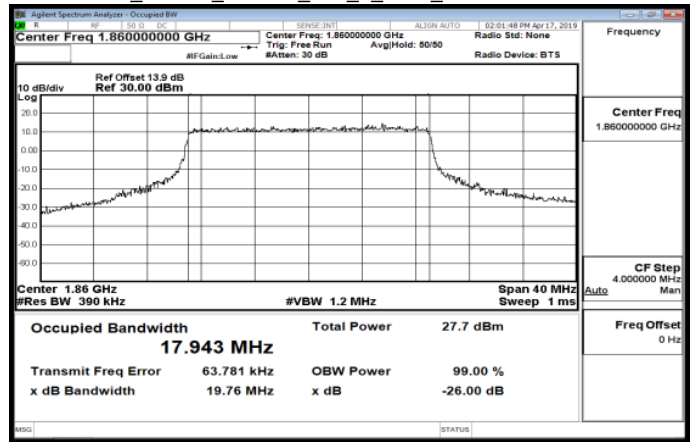
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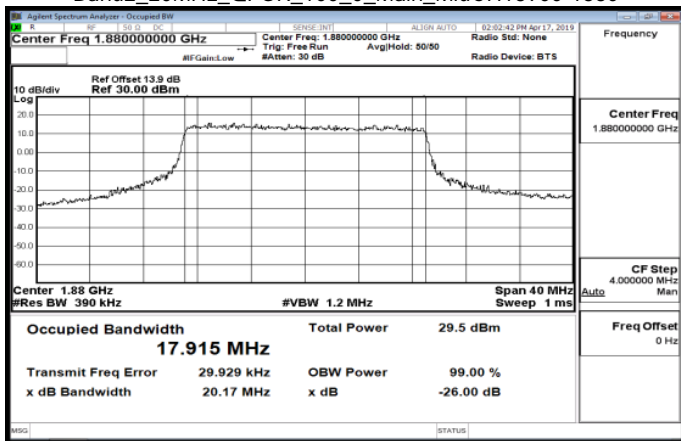
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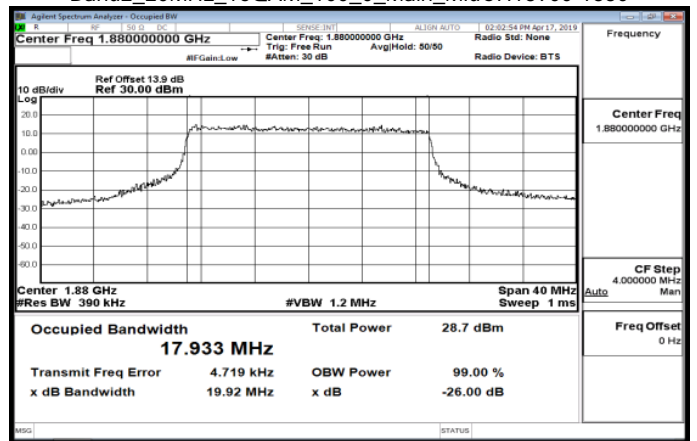
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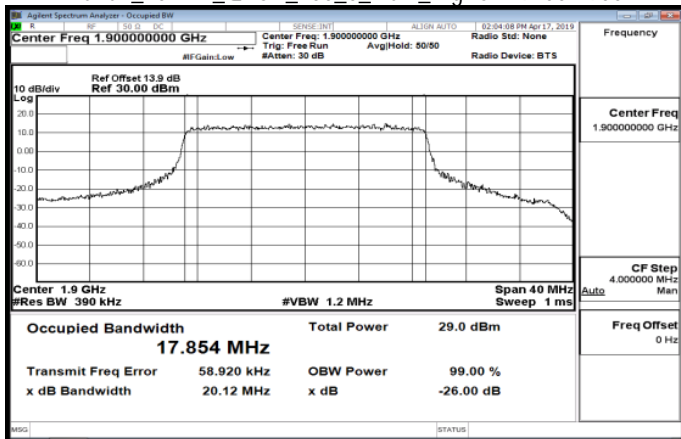
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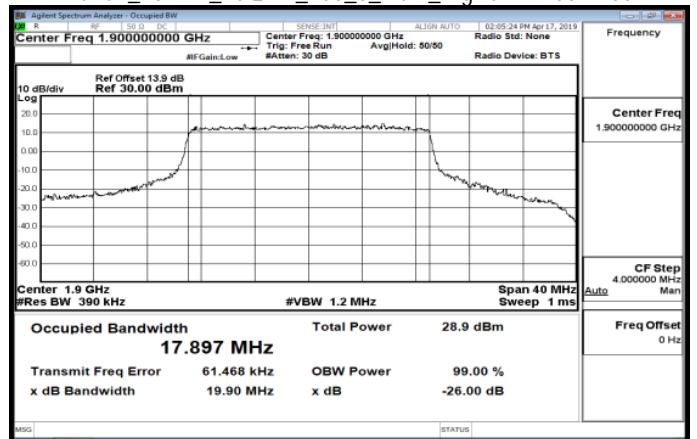
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Band2_20MHz_QPSK_100_0_Main_HighCH19100-1900



Band2_20MHz_16QAM_100_0_Main_HighCH19100-1900

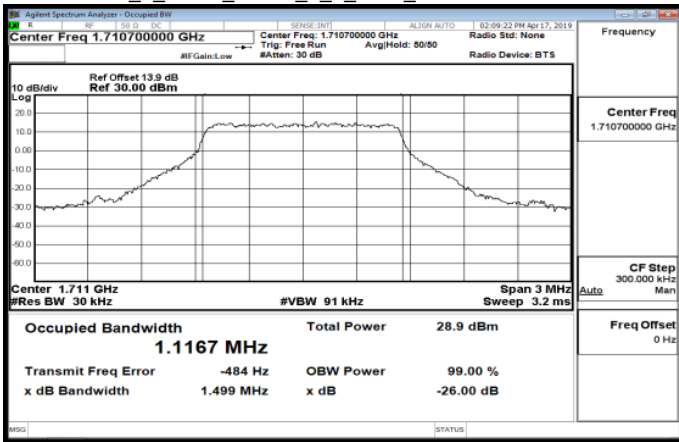


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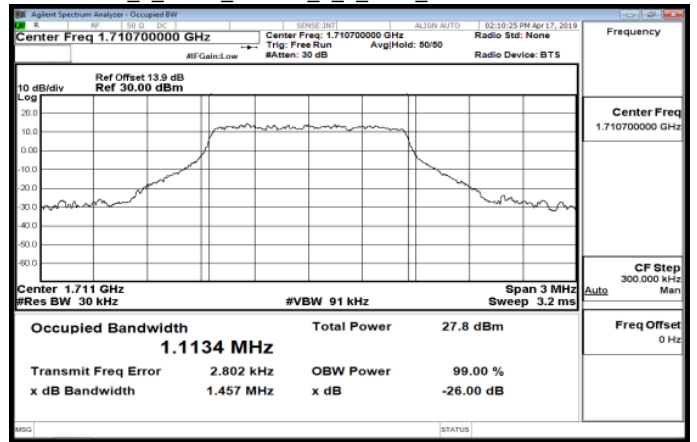
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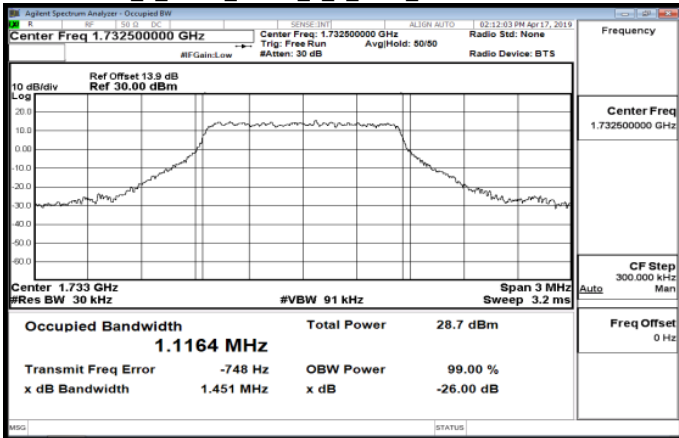
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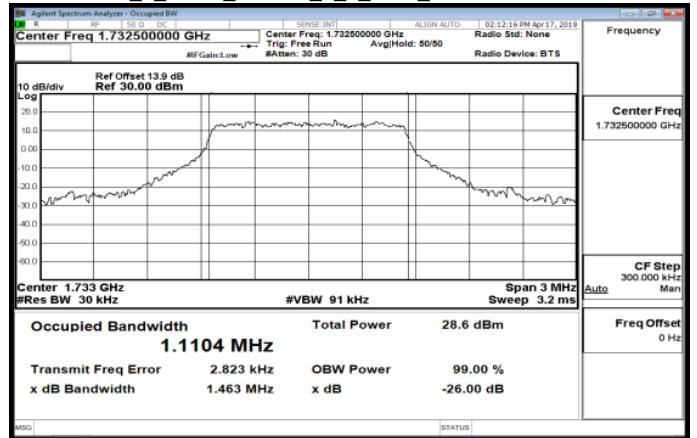
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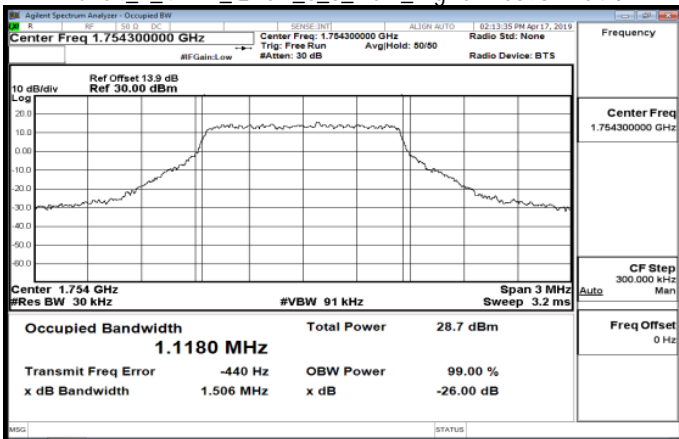
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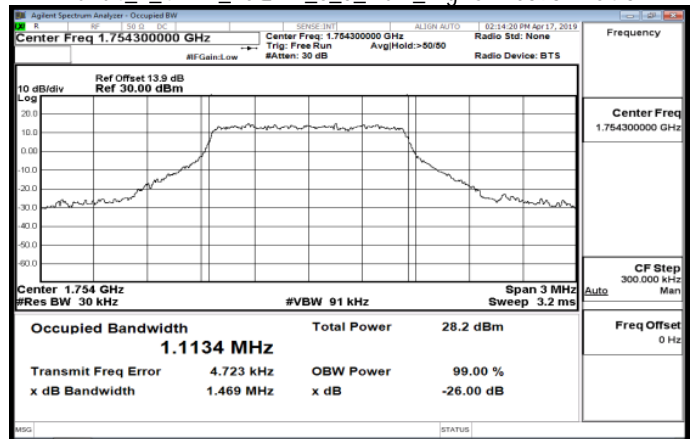
Band4_1_4MHz_16QAM_6_0_Main_MidCH20175-1732.5



Band4_1_4MHz_QPSK_6_0_Main_HighCH20393-1754.3



Band4_1_4MHz_16QAM_6_0_Main_HighCH20393-1754.3

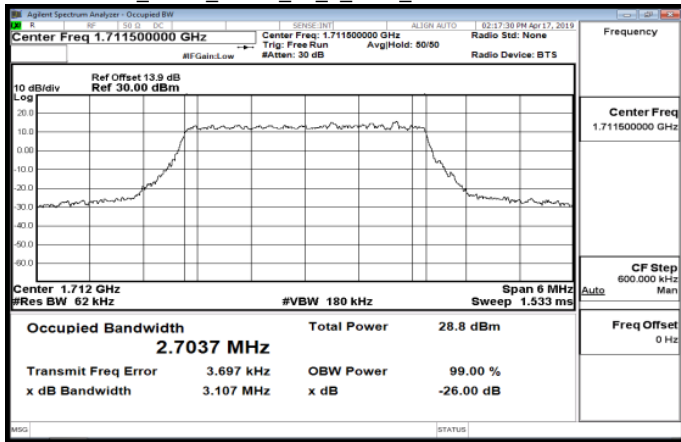


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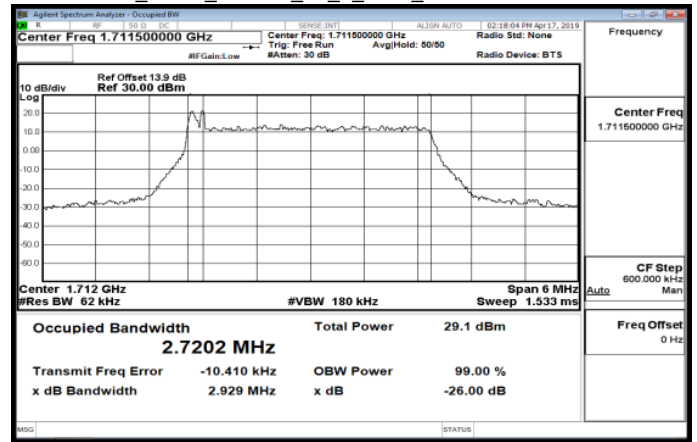
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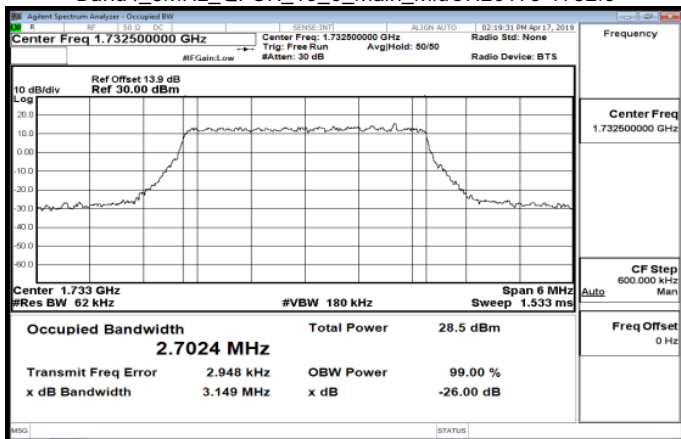
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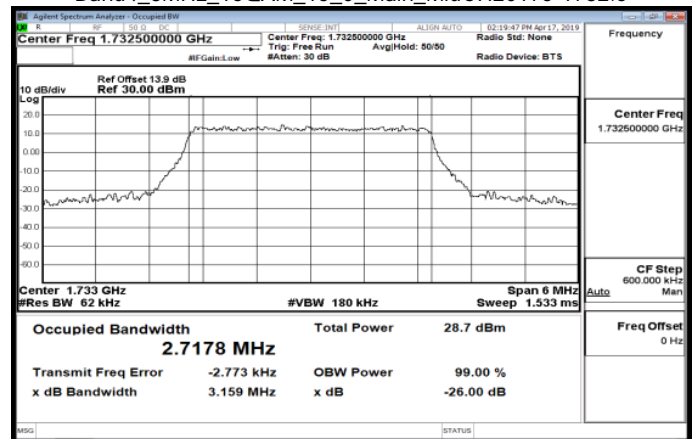
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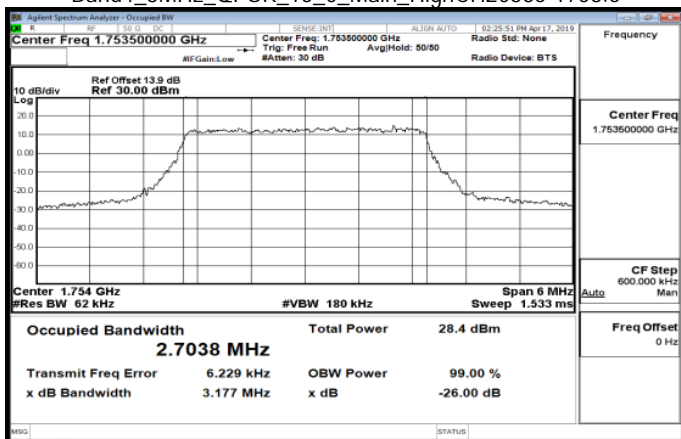
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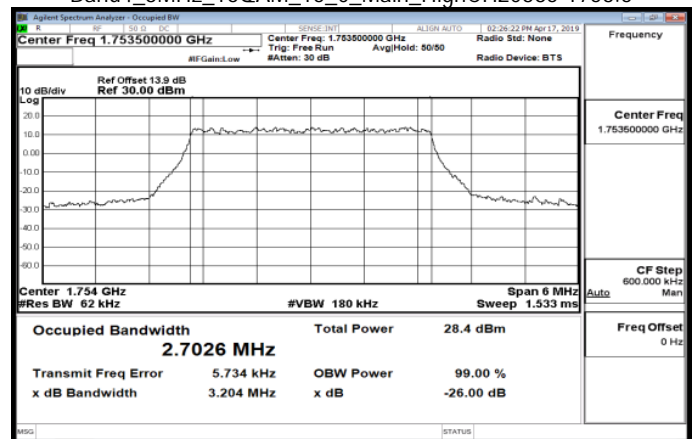
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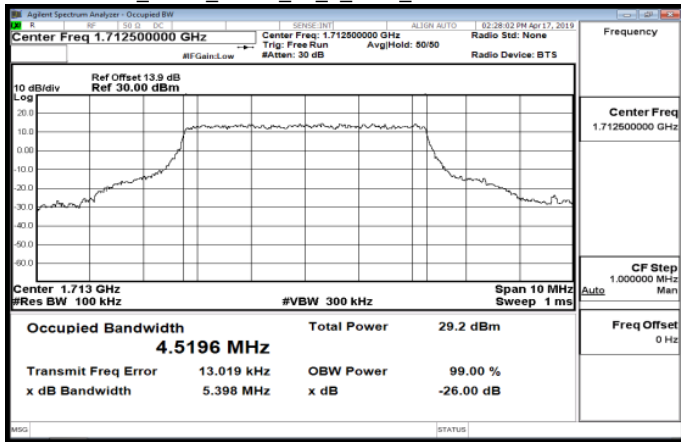


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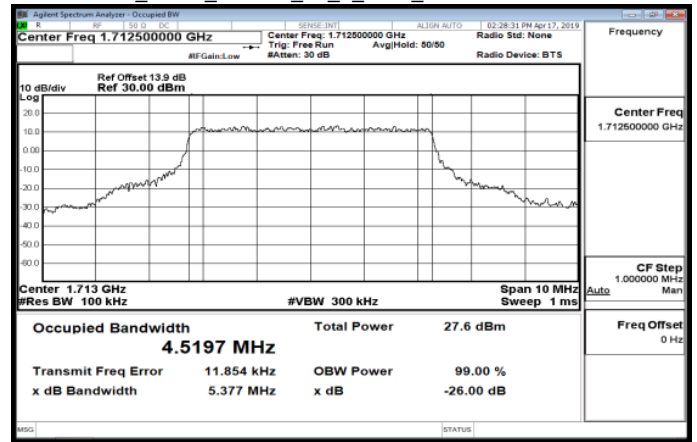
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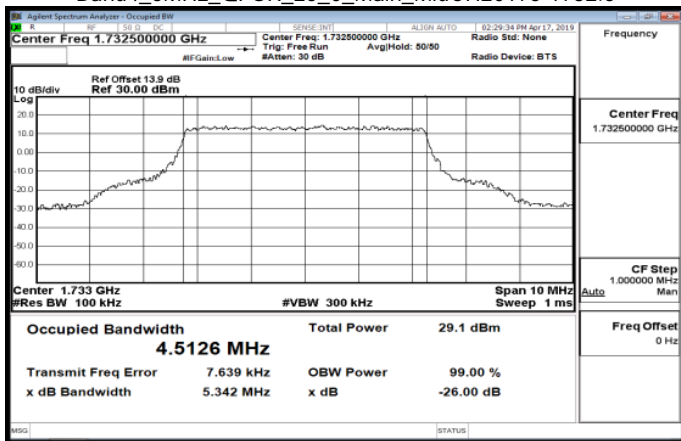
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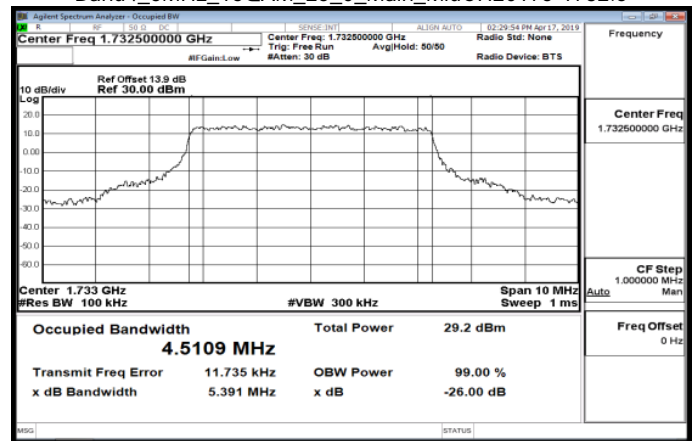
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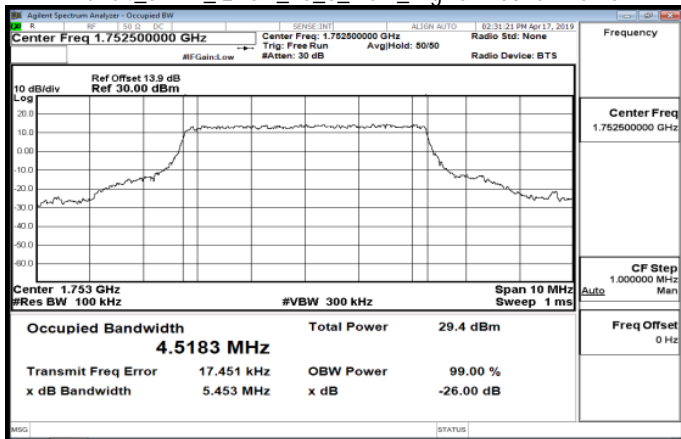
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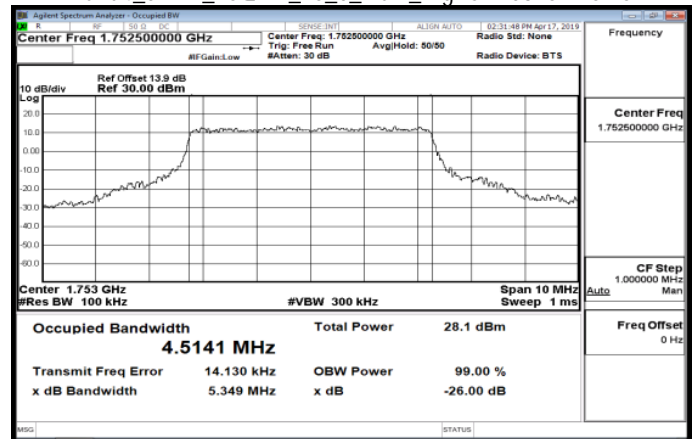
Band4_5MHz_16QAM_25_0_Main_MidCH20175-1732.5



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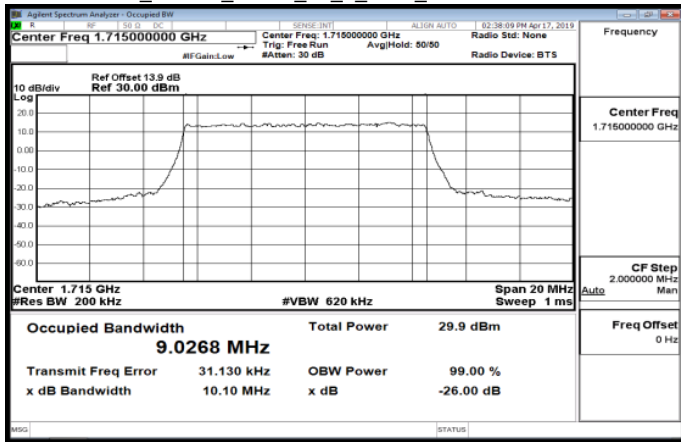


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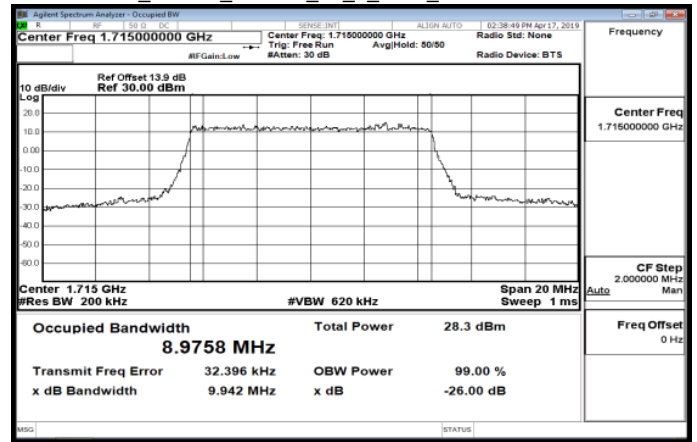
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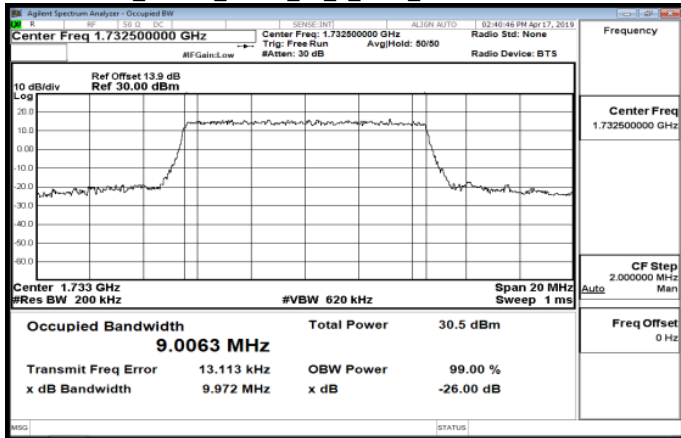
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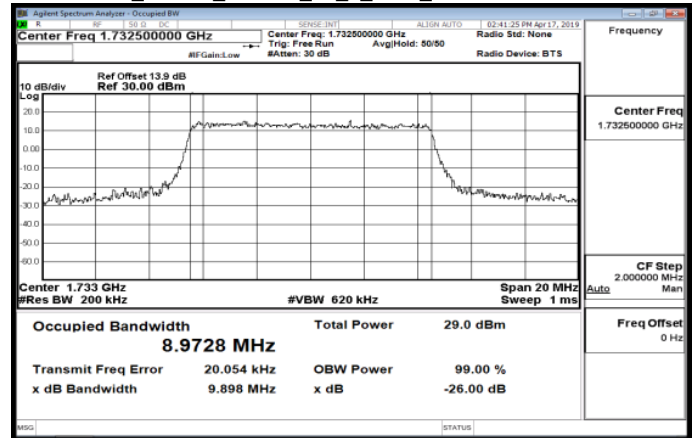
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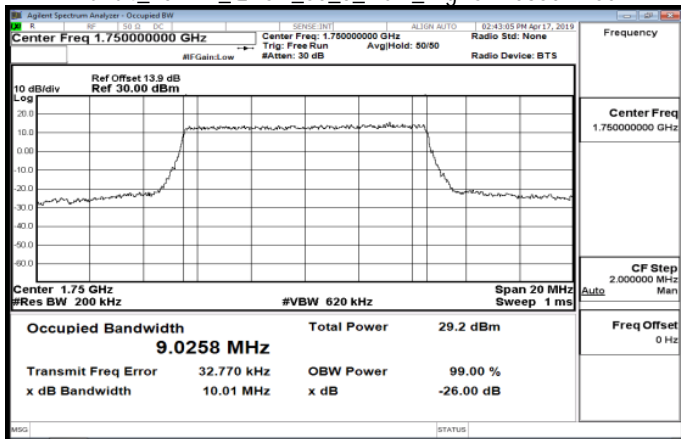
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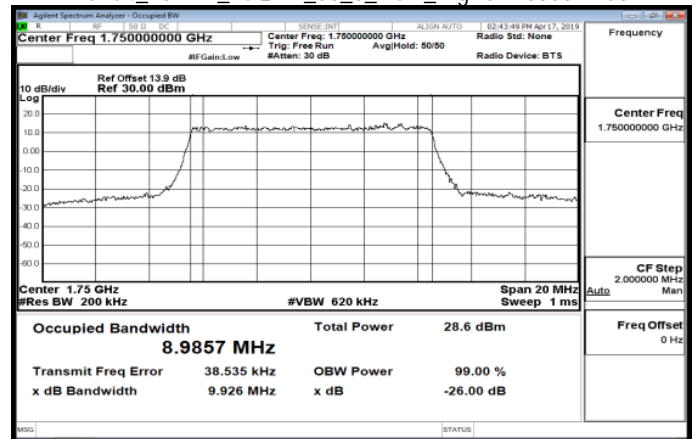
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Band4_10MHz_QPSK_50_0_Main_HighCH20350-1750



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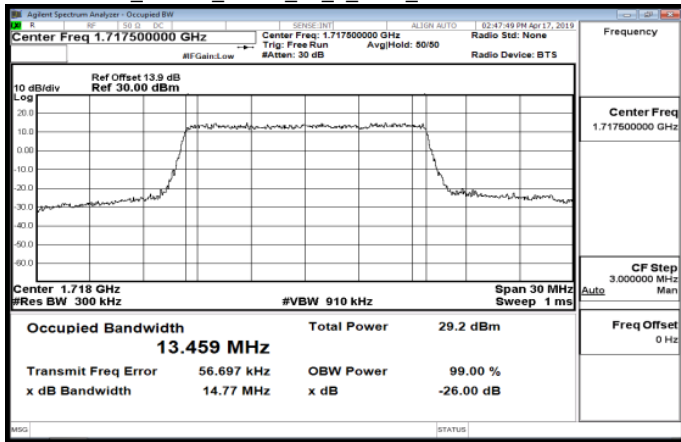


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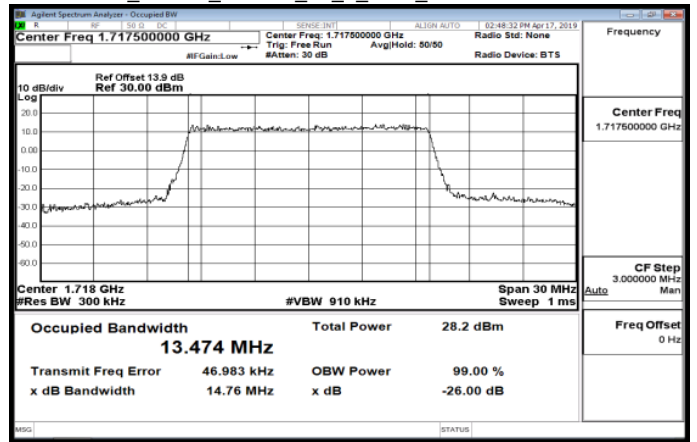
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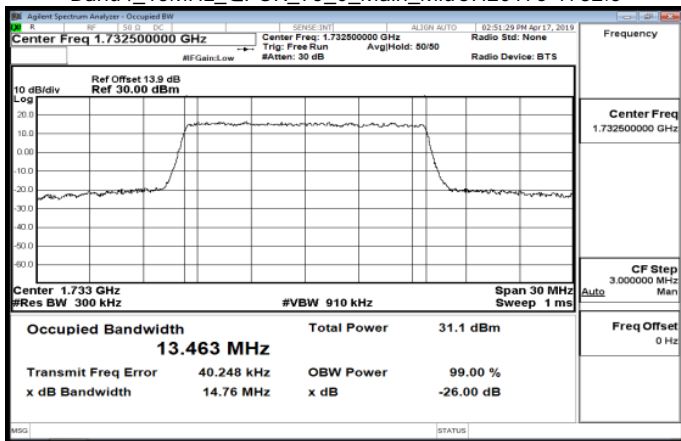
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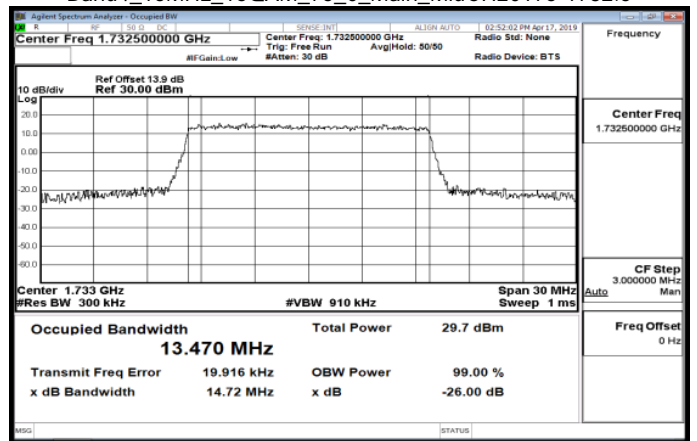
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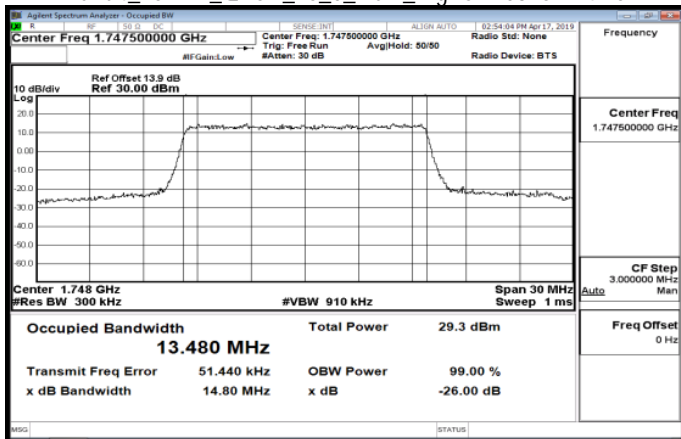
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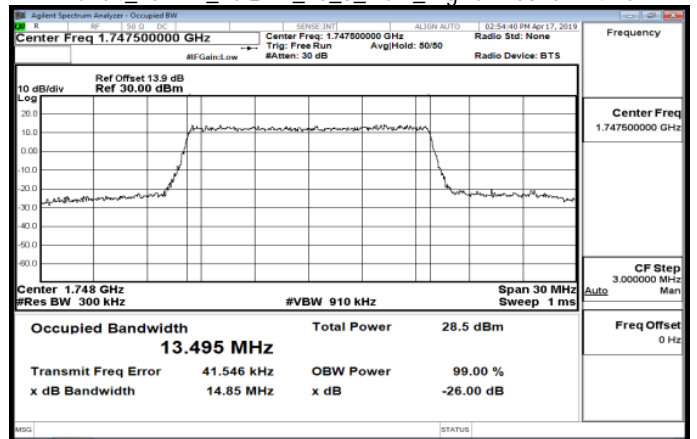
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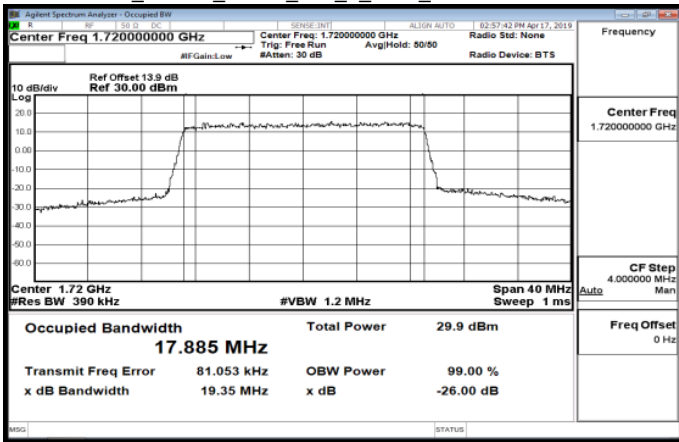


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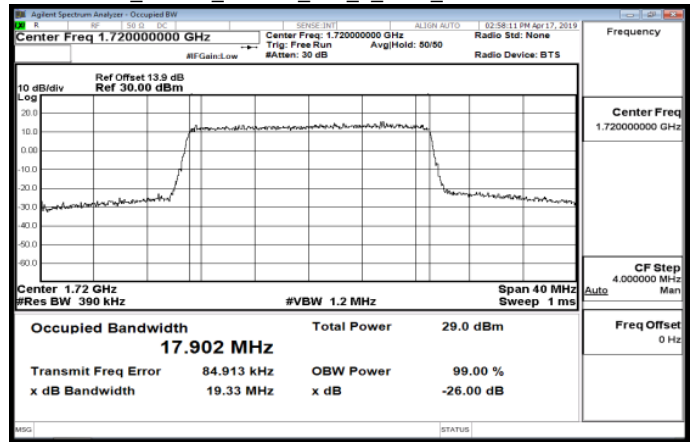
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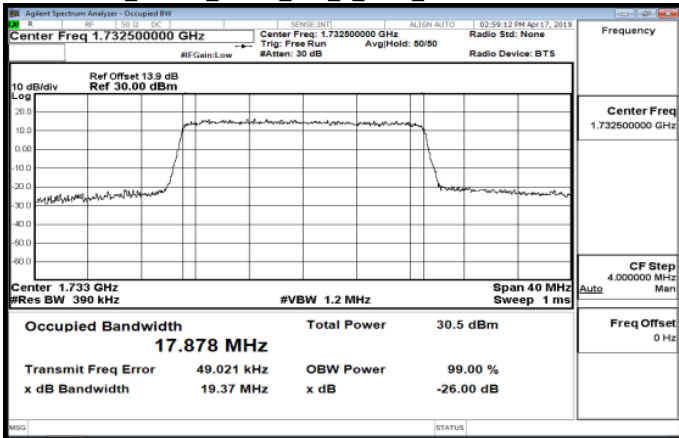
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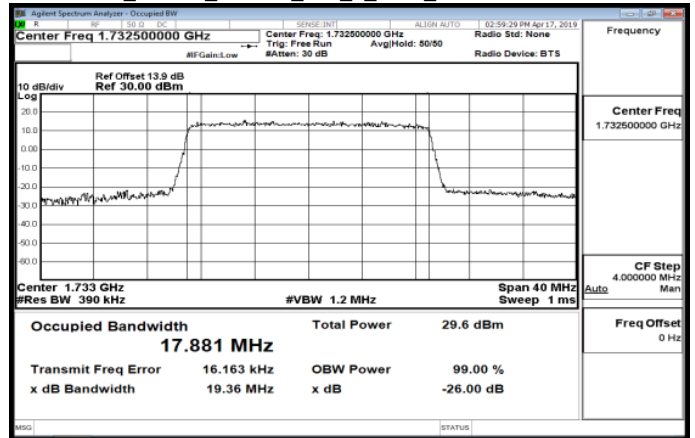
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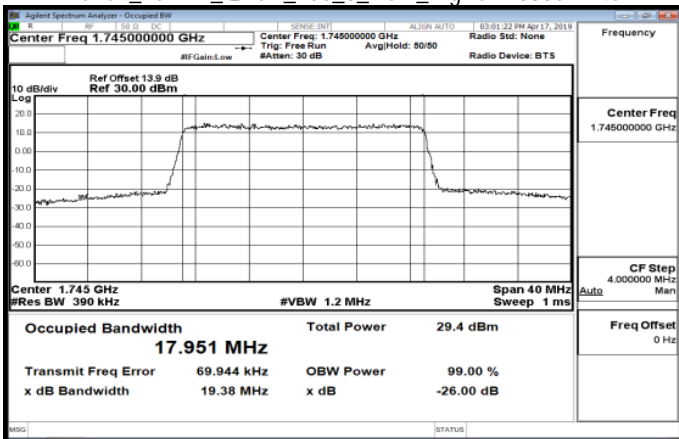
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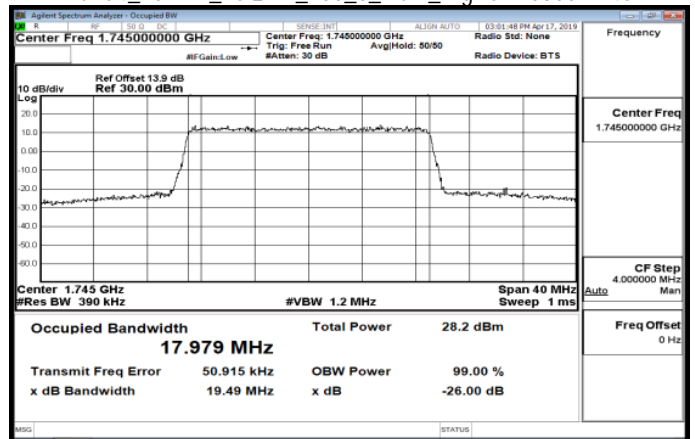
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Band4_20MHz_QPSK_100_0_Main_HighCH20300-1745



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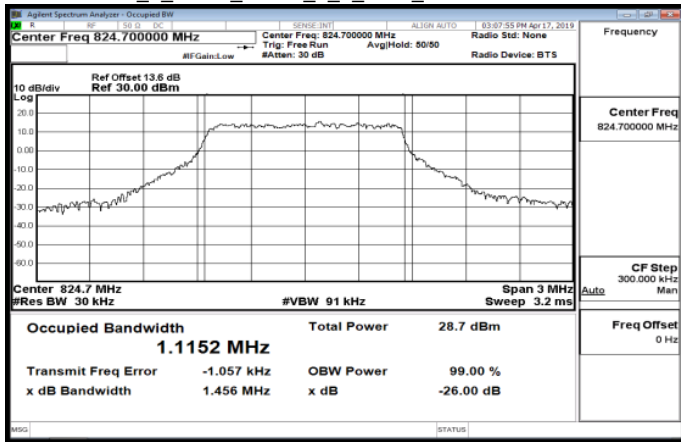


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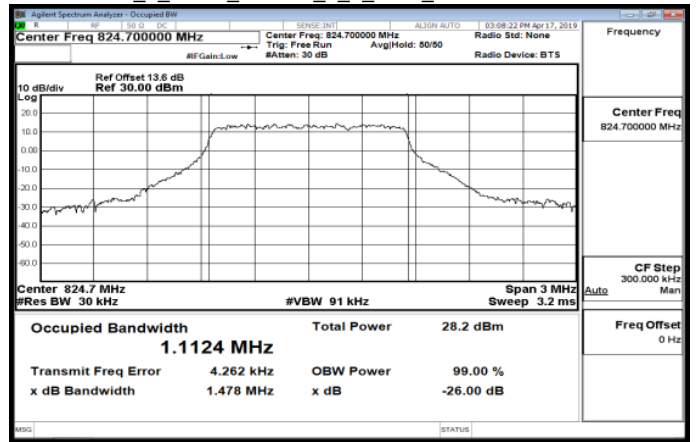
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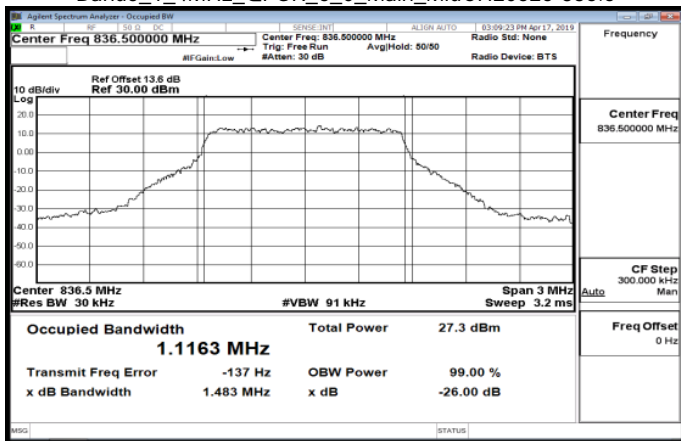
Band5_1_4MHz_QPSK_6_0_Main_LowCH20407-824.7



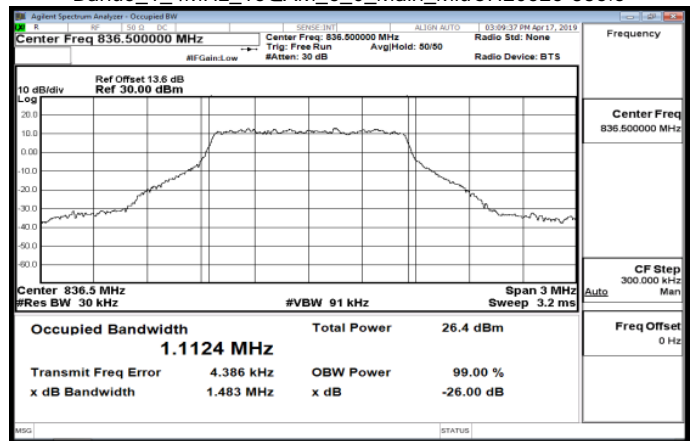
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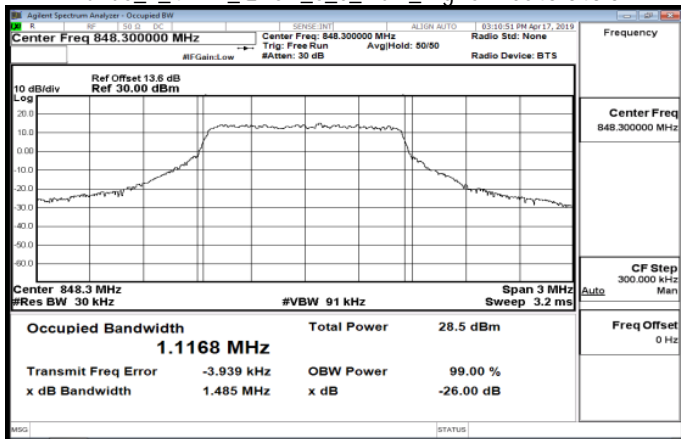
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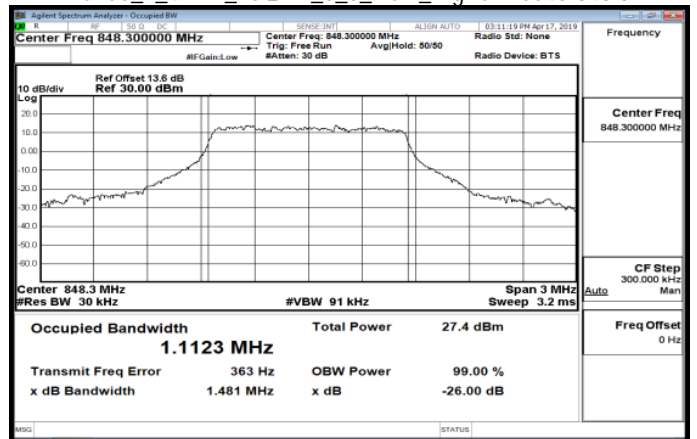
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Band5_1_4MHz_QPSK_6_0_Main_HighCH20643-848.3



Band5_1_4MHz_16QAM_6_0_Main_HighCH20643-848.3



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