

FCC Test Report

(PART 27)

Report No.: RF150727C10-3

FCC ID: NM82PQ9300

Test Model: 2PQ9300

Received Date: Jul. 27, 2015

Test Date: Aug. 05, 2015 ~ Sep. 02, 2015

Issued Date: Sep. 17, 2015

Applicant: HTC Corporation

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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(R.O.C)

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Release Control Record

| Issue No. | Description | Date Issued |
|---------------|------------------|---------------|
| RF150727C10-3 | Original Release | Sep. 17, 2015 |



1 Certificate of Conformity

Product: Smartphone
Brand: HTC
Test Model: 2PQ9300
Sample Status: Identical Prototype
Applicant: HTC Corporation
Test Date: Aug. 05, 2015 ~ Sep. 02, 2015
Standards: FCC Part 27, Subpart C, M

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : Ivonne Wu , **Date:** Sep. 17, 2015
Ivonne Wu / Supervisor

Approved by : Kay Wu , **Date:** Sep. 17, 2015
Kay Wu / Supervisor

2 Summary of Test Results

| Applied Standard: FCC Part 27 & Part 2 | | | |
|--|-------------------------------------|--------|---|
| FCC Clause | Test Item | Result | Remarks |
| 2.1046 27.50(h) | Equivalent Isotropic Radiated Power | PASS | Meet the requirement of limit. |
| 2.1055 27.54 | Frequency Stability | PASS | Meet the requirement of limit. |
| 2.1049 | Occupied Bandwidth | PASS | Meet the requirement of limit. |
| | Peak to average ratio | PASS | Meet the requirement of limit. |
| 2.1051 27.53(l) | Band Edge Measurements | PASS | Meet the requirement of limit. |
| 2.1051 27.53(m) | Conducted Spurious Emissions | PASS | Meet the requirement of limit. |
| 2.1053 27.53(m) | Radiated Spurious Emissions | PASS | Meet the requirement of limit. Minimum passing margin is -21.75dB at 41.34MHz. |

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| Measurement | Frequency | Expanded Uncertainty (k=2) (\pm) |
|------------------------------------|------------------|--------------------------------------|
| Conducted Emissions at mains ports | 150kHz ~ 30MHz | 2.44 dB |
| Radiated Emissions up to 1 GHz | 30MHz ~ 200MHz | 2.0153 dB |
| | 200MHz ~ 1000MHz | 2.0224 dB |
| Radiated Emissions above 1 GHz | 1GHz ~ 18GHz | 1.0121 dB |
| | 18GHz ~ 40GHz | 1.1508 dB |

2.2 Test Site And Instruments

| Description & Manufacturer | Model No. | Serial No. | Date of Calibration | Due Date of Calibration |
|--|----------------|---------------------|---------------------|-------------------------|
| Test Receiver Agilent | N9038A | MY51210203 | Jan. 21, 2015 | Jan. 21, 2016 |
| Spectrum Analyzer Agilent | N9010A | MY52220314 | Sep. 03, 2015 | Sep. 02, 2016 |
| Spectrum Analyzer ROHDE & SCHWARZ | FSU43 | 101261 | Dec. 10, 2014 | Dec. 09, 2015 |
| BILOG Antenna SCHWARZBECK | VULB9168 | 9168-472 | Feb. 04, 2015 | Feb. 04, 2016 |
| HORN Antenna SCHWARZBECK | BBHA 9120 D | 9120D-969 | Feb. 09, 2015 | Feb. 09, 2016 |
| HORN Antenna SCHWARZBECK | BBHA 9170 | 9170-480 | Feb. 04, 2015 | Feb. 04, 2016 |
| Preamplifier EMCI | EMC 012645 | 980115 | Dec. 12, 2014 | Dec. 11, 2015 |
| Preamplifier EMCI | EMC 184045 | 980116 | Jan. 09, 2015 | Jan. 08, 2016 |
| Preamplifier EMCI | EMC 330H | 980112 | Dec. 27, 2014 | Dec. 26, 2015 |
| Power Meter Anritsu | ML2495A | 1232002 | Sep. 17, 2014 | Sep. 16, 2015 |
| Power Sensor Anritsu | MA2411B | 1207325 | Sep. 17, 2014 | Sep. 16, 2015 |
| RF signal cable HUBER+SUHNNER | SUCOFLEX 104 | 309219/4 2950114 | Oct. 18, 2014 | Oct. 17, 2015 |
| RF signal cable HUBER+SUHNNER | SUCOFLEX 104 | 250130/4 | Oct. 18, 2014 | Oct. 17, 2015 |
| RF Coaxial Cable Worken | 8D-FB | Cable-Ch10-01 | Nov. 07, 2014 | Nov. 06, 2015 |
| Software BV ADT | E3 6.120103 | NA | NA | NA |
| Antenna Tower MF | MFA-440H | NA | NA | NA |
| Turn Table MF | MFT-201SS | NA | NA | NA |
| Antenna Tower & Turn Table Controller MF | MF-7802 | NA | NA | NA |
| Communications Tester-Wireless Agilent | 8960 Series 10 | MY53201073 | Jul. 03, 2015 | Jul. 02, 2017 |
| Radio Communication Analyzer Anritsu | MT8820C | 6201240432 | Jul. 06, 2015 | Jul. 05, 2017 |

- Note: 1. The calibration interval of the above test instruments is 12 / 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 10.
3. The horn antenna and preamplifier (model: EMC 184045) are used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 690701.
5. The IC Site Registration No. is IC7450F-10.

3 General Information

3.1 General Description of EUT

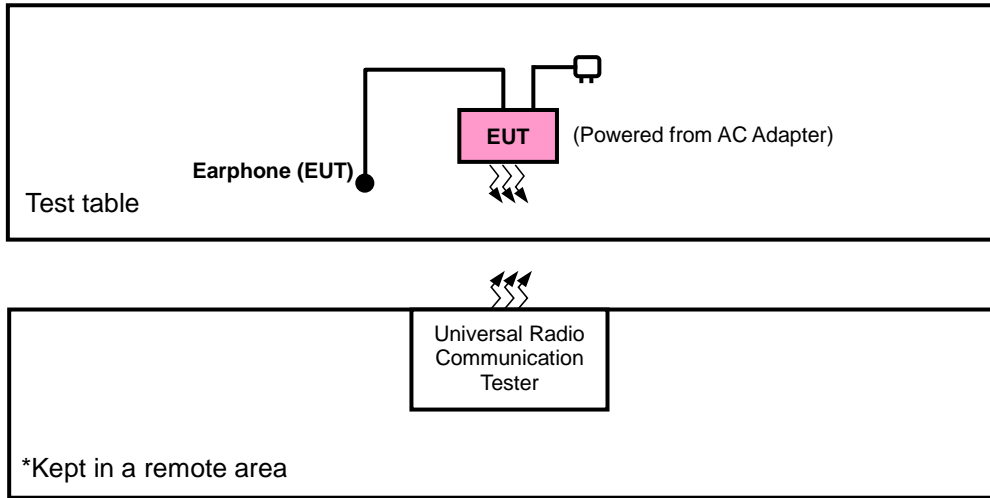
| | | |
|---------------------|--|---------------------|
| Product | Smartphone | |
| Brand | HTC | |
| Test Model | 2PQ9300 | |
| Status of EUT | Identical Prototype | |
| Power Supply Rating | 5.0Vdc (adapter or host equipment) 3.85Vdc (Li-ion battery) | |
| Modulation Type | QPSK, 16QAM | |
| Frequency Range | LTE Band 41 (Channel Bandwidth: 5MHz) | 2498.5 ~ 2687.5 MHz |
| | LTE Band 41 (Channel Bandwidth: 10MHz) | 2501.0 ~ 2685.0 MHz |
| | LTE Band 41 (Channel Bandwidth: 15MHz) | 2503.5 ~ 2682.5 MHz |
| | LTE Band 41 (Channel Bandwidth: 20MHz) | 2506.0 ~ 2680.0 MHz |
| Max. EIRP Power | LTE Band 41 (Channel Bandwidth: 5MHz) | 151.71mW |
| | LTE Band 41 (Channel Bandwidth: 10MHz) | 144.88mW |
| | LTE Band 41 (Channel Bandwidth: 15MHz) | 147.57mW |
| | LTE Band 41 (Channel Bandwidth: 20MHz) | 161.44mW |
| Emission Designator | LTE Band 41 (Channel Bandwidth: 5MHz) | 4M49G7D |
| | LTE Band 41 (Channel Bandwidth: 10MHz) | 8M96G7D |
| | LTE Band 41 (Channel Bandwidth: 15MHz) | 13M4G7D |
| | LTE Band 41 (Channel Bandwidth: 20MHz) | 17M9W7D |
| Antenna Type | Fixed Internal Antenna | |
| Accessory Device | Refer to Note as below | |
| Data Cable Supplied | Refer to Note as below | |

Note:

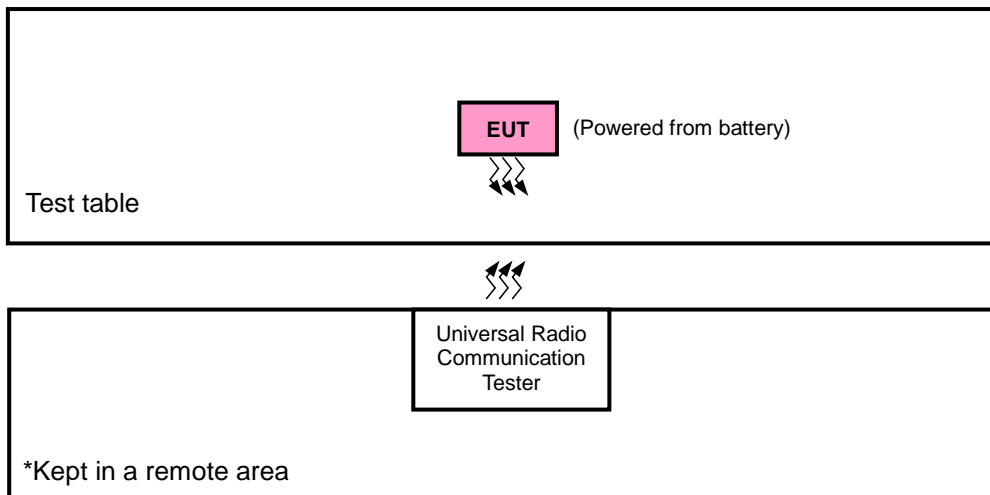
1. The EUT's accessories list refers to Ext. Pho.
2. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 Configuration of System Under Test

<Radiated Emission Test>



<E.I.R.P. Test>



3.2.1 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units.

3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports

The worst case was found when positioned as the table below. Following channel(s) was (were) selected for the final test as listed below:

| Band | ERP | Radiated Emission |
|-------------|---------|-------------------|
| LTE Band 41 | X-plane | Z-axis |

LTE BAND 41

| EUT Configure Mode | Test Item | Available Channel | Tested Channel | Channel Bandwidth | Modulation | Mode |
|--------------------|-----------------------|-------------------|---------------------|-------------------|-------------|----------------------|
| - | EIRP | 39675 to 41565 | 39675, 40620, 41565 | 5MHz | QPSK, 16QAM | 1 RB / 12 RB Offset |
| | | 39700 to 41540 | 39700, 40620, 41540 | 10MHz | QPSK, 16QAM | 1 RB / 24 RB Offset |
| | | 39725 to 41515 | 39725, 40620, 41515 | 15MHz | QPSK, 16QAM | 1 RB / 37 RB Offset |
| | | 39750 to 41490 | 39750, 40620, 41490 | 20MHz | QPSK, 16QAM | 1 RB / 50 RB Offset |
| - | Frequency Stability | 39675 to 41565 | 40620 | 5MHz | QPSK | 1 RB / 12 RB Offset |
| | | 39700 to 41540 | 40620 | 10MHz | QPSK | 1 RB / 24 RB Offset |
| | | 39725 to 41515 | 40620 | 15MHz | QPSK | 1 RB / 37 RB Offset |
| | | 39750 to 41490 | 40620 | 20MHz | QPSK | 1 RB / 50 RB Offset |
| - | Occupied Bandwidth | 39675 to 41565 | 39675, 40620, 41565 | 5MHz | QPSK, 16QAM | 25 RB / 0 RB Offset |
| | | 39700 to 41540 | 39700, 40620, 41540 | 10MHz | QPSK, 16QAM | 50 RB / 0 RB Offset |
| | | 39725 to 41515 | 39725, 40620, 41515 | 15MHz | QPSK, 16QAM | 75 RB / 0 RB Offset |
| | | 39750 to 41490 | 39750, 40620, 41490 | 20MHz | QPSK, 16QAM | 100 RB / 0 RB Offset |
| - | Peak to Average Ratio | 39675 to 41565 | 39675, 40620, 41565 | 5MHz | QPSK, 16QAM | 1 RB / 12 RB Offset |
| | | 39700 to 41540 | 39700, 40620, 41540 | 10MHz | QPSK, 16QAM | 1 RB / 24 RB Offset |
| | | 39725 to 41515 | 39725, 40620, 41515 | 15MHz | QPSK, 16QAM | 1 RB / 37 RB Offset |
| | | 39750 to 41490 | 39750, 40620, 41490 | 20MHz | QPSK, 16QAM | 1 RB / 50 RB Offset |
| - | Band Edge | 39675 to 41565 | 39675, 41565 | 5MHz | QPSK, 16QAM | 25 RB / 0 RB Offset |
| | | 39700 to 41540 | 39700, 41540 | 10MHz | QPSK, 16QAM | 50 RB / 0 RB Offset |
| | | 39725 to 41515 | 39725, 41515 | 15MHz | QPSK, 16QAM | 75 RB / 0 RB Offset |
| | | 39750 to 41490 | 39750, 41490 | 20MHz | QPSK, 16QAM | 100 RB / 0 RB Offset |
| - | Conducted Emission | 39675 to 41565 | 40620 | 5MHz | QPSK | 1 RB / 12 RB Offset |
| | | 39700 to 41540 | 40620 | 10MHz | QPSK | 1 RB / 24 RB Offset |
| | | 39725 to 41515 | 40620 | 15MHz | QPSK | 1 RB / 37 RB Offset |
| | | 39750 to 41490 | 40620 | 20MHz | QPSK | 1 RB / 50 RB Offset |
| - | Radiated Emission | 39750 to 41490 | 40620 | 20MHz | QPSK | 1 RB / 50 RB Offset |

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

Test Condition:

| Test Item | Environmental Conditions | Input Power | Tested By |
|-----------------------|--------------------------|--------------|-------------|
| EIRP | 25deg. C, 65%RH | 3.85Vdc | Anson Lin |
| Frequency Stability | 25deg. C, 65%RH | 3.85Vdc | Carlos Chen |
| Occupied Bandwidth | 25deg. C, 65%RH | 3.85Vdc | Carlos Chen |
| Band Edge | 25deg. C, 65%RH | 3.85Vdc | Carlos Chen |
| Peak to Average Ratio | 25deg. C, 65%RH | 3.85Vdc | Carlos Chen |
| Conducuted Emission | 25deg. C, 65%RH | 3.85Vdc | Carlos Chen |
| Radiated Emission | 25deg. C, 65%RH | 120Vac, 60Hz | Anson Lin |

3.4 EUT Operating Conditions

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency

3.5 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2

FCC 47 CFR Part 27

ANSI/TIA/EIA-603-C 2004

NOTE: All test items have been performed and recorded as per the above standards.

4 Test Types and Results

4.1 Output Power Measurement

4.1.1 Limits of Output Power Measurement

The radiated peak output power shall be according to the specific rule Part 27.50(h)(2) that “User stations are limited to 2 watts” and 27.50(i) specific that “Peak transmit power must be measure over any interval of continuous transmission using instrumentation calibration in terms of rms-equivalent voltage.”

4.1.2 Test Procedures

EIRP Measurement:

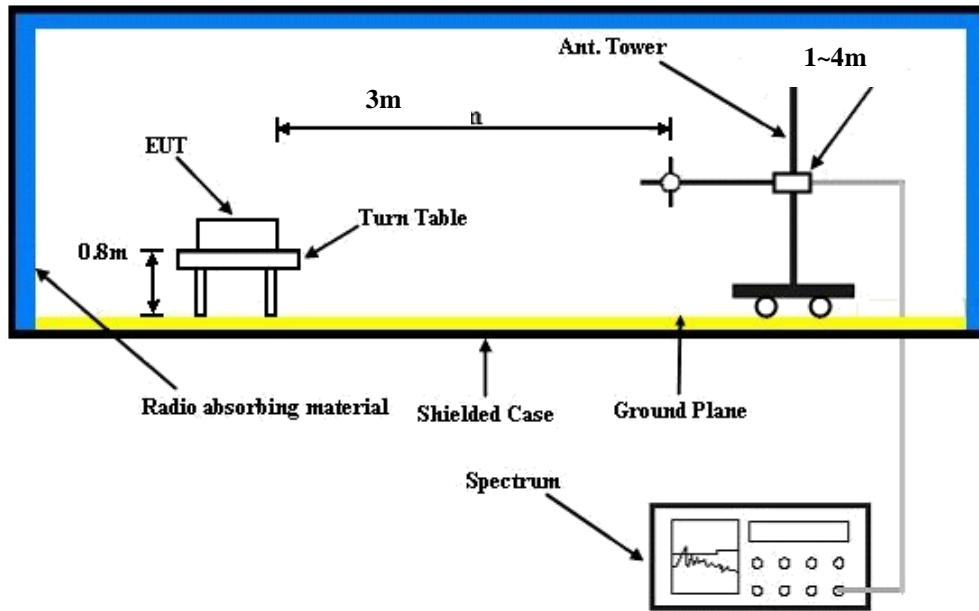
- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 10MHz for LTE mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
- c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value” of step b. Record the power level of S.G
- d. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn.}$

Conducted Power Measurement:

- a. The EUT was set up for the maximum power with LTE link data modulation and link up with simulator.
- b. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

4.1.3 Test Setup

EIRP / ERP MEASUREMENT:



For the actual test configuration, please refer to the attached file (Test Setup Photo).

CONDUCTED POWER MEASUREMENT:



4.1.4 Test Results

CONDUCTED OUTPUT POWER (dBm)

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|-----------|---------|-----------|--------------|--------------|---------------|---------------|--------------|--------------|---------------|---------------|
| | | | Low Ch 39675 | Mid Ch 40620 | High Ch 41565 | | Low Ch 39675 | Mid Ch 40620 | High Ch 41565 | |
| | | | 2498.5 MHz | 2593.0 MHz | 2687.5 MHz | | 2498.5 MHz | 2593.0 MHz | 2687.5 MHz | |
| 41 / 5M | 1 | 0 | 21.83 | 21.53 | 21.33 | 0 | 20.81 | 20.51 | 20.31 | 1 |
| | 1 | 12 | 22.14 | 21.84 | 21.64 | 0 | 21.12 | 20.82 | 20.62 | 1 |
| | 1 | 24 | 22.00 | 21.70 | 21.50 | 0 | 20.98 | 20.68 | 20.48 | 1 |
| | 12 | 0 | 21.10 | 20.80 | 20.60 | 1 | 20.08 | 19.78 | 19.58 | 2 |
| | 12 | 6 | 21.14 | 20.84 | 20.64 | 1 | 20.12 | 19.82 | 19.62 | 2 |
| | 12 | 13 | 21.08 | 20.78 | 20.58 | 1 | 20.06 | 19.76 | 19.56 | 2 |
| | 25 | 0 | 21.12 | 20.82 | 20.62 | 1 | 20.10 | 19.80 | 19.60 | 2 |

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|-----------|---------|-----------|--------------|--------------|---------------|---------------|--------------|--------------|---------------|---------------|
| | | | Low Ch 39700 | Mid Ch 40620 | High Ch 41540 | | Low Ch 39700 | Mid Ch 40620 | High Ch 41540 | |
| | | | 2501.0 MHz | 2593.0 MHz | 2685.0 MHz | | 2501.0 MHz | 2593.0 MHz | 2685.0 MHz | |
| 41 / 10M | 1 | 0 | 21.92 | 21.62 | 21.42 | 0 | 20.90 | 20.60 | 20.40 | 1 |
| | 1 | 24 | 22.23 | 21.93 | 21.73 | 0 | 21.21 | 20.91 | 20.71 | 1 |
| | 1 | 49 | 22.09 | 21.79 | 21.59 | 0 | 21.07 | 20.77 | 20.57 | 1 |
| | 25 | 0 | 21.19 | 20.89 | 20.69 | 1 | 20.17 | 19.87 | 19.67 | 2 |
| | 25 | 12 | 21.23 | 20.93 | 20.73 | 1 | 20.21 | 19.91 | 19.71 | 2 |
| | 25 | 25 | 21.17 | 20.87 | 20.67 | 1 | 20.15 | 19.85 | 19.65 | 2 |
| | 50 | 0 | 21.21 | 20.91 | 20.71 | 1 | 20.19 | 19.89 | 19.69 | 2 |

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|-----------|---------|-----------|--------------|--------------|---------------|---------------|--------------|--------------|---------------|---------------|
| | | | Low Ch 39725 | Mid Ch 40620 | High Ch 41515 | | Low Ch 39725 | Mid Ch 40620 | High Ch 41515 | |
| | | | 2503.5 MHz | 2593.0 MHz | 2682.5 MHz | | 2503.5 MHz | 2593.0 MHz | 2682.5 MHz | |
| 41 / 15M | 1 | 0 | 21.97 | 21.67 | 21.47 | 0 | 20.95 | 20.65 | 20.45 | 1 |
| | 1 | 37 | 22.28 | 21.98 | 21.78 | 0 | 21.26 | 20.96 | 20.76 | 1 |
| | 1 | 74 | 22.14 | 21.84 | 21.64 | 0 | 21.12 | 20.82 | 20.62 | 1 |
| | 36 | 0 | 21.24 | 20.94 | 20.74 | 1 | 20.22 | 19.92 | 19.72 | 2 |
| | 36 | 19 | 21.28 | 20.98 | 20.78 | 1 | 20.26 | 19.96 | 19.76 | 2 |
| | 36 | 39 | 21.22 | 20.92 | 20.72 | 1 | 20.20 | 19.90 | 19.70 | 2 |
| | 75 | 0 | 21.26 | 20.96 | 20.76 | 1 | 20.24 | 19.94 | 19.74 | 2 |

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|-----------|---------|-----------|--------------|--------------|---------------|---------------|--------------|--------------|---------------|---------------|
| | | | Low Ch 39750 | Mid Ch 40620 | High Ch 41490 | | Low Ch 39750 | Mid Ch 40620 | High Ch 41490 | |
| | | | 2506.0 MHz | 2593.0 MHz | 2680.0 MHz | | 2506.0 MHz | 2593.0 MHz | 2680.0 MHz | |
| 41 / 20M | 1 | 0 | 22.00 | 21.70 | 21.50 | 0 | 20.98 | 20.68 | 20.48 | 1 |
| | 1 | 50 | 22.31 | 22.01 | 21.81 | 0 | 21.29 | 20.99 | 20.79 | 1 |
| | 1 | 99 | 22.17 | 21.87 | 21.67 | 0 | 21.15 | 20.85 | 20.65 | 1 |
| | 50 | 0 | 21.27 | 20.97 | 20.77 | 1 | 20.25 | 19.95 | 19.75 | 2 |
| | 50 | 25 | 21.31 | 21.01 | 20.81 | 1 | 20.29 | 19.99 | 19.79 | 2 |
| | 50 | 50 | 21.25 | 20.95 | 20.75 | 1 | 20.23 | 19.93 | 19.73 | 2 |
| | 100 | 0 | 21.29 | 20.99 | 20.79 | 1 | 20.27 | 19.97 | 19.77 | 2 |

EIRP Power (dBm)

| LTE Band 41 | | | | | | | |
|--------------------------------|---------|-----------------|-----------|-----------------------|-----------|----------|--------------------|
| Channel Bandwidth: 5MHz / QPSK | | | | | | | |
| Plane | Channel | Frequency (MHz) | LVL (dBm) | Correction Factor(dB) | EIRP(dBm) | EIRP(mW) | Polarization (H/V) |
| X | 39675 | 2498.5 | -17.18 | 38.99 | 21.81 | 151.71 | H |
| | 40620 | 2593.0 | -16.73 | 38.17 | 21.44 | 139.32 | |
| | 41565 | 2687.5 | -17.51 | 38.55 | 21.04 | 127.06 | |
| | 39675 | 2498.5 | -27.45 | 39.27 | 11.82 | 15.19 | V |
| | 40620 | 2593.0 | -27.45 | 38.68 | 11.23 | 13.27 | |
| | 41565 | 2687.5 | -27.37 | 38.55 | 11.18 | 13.12 | |

| LTE Band 41 | | | | | | | |
|---------------------------------|---------|-----------------|-----------|-----------------------|-----------|----------|--------------------|
| Channel Bandwidth: 5MHz / 16QAM | | | | | | | |
| Plane | Channel | Frequency (MHz) | LVL (dBm) | Correction Factor(dB) | EIRP(dBm) | EIRP(mW) | Polarization (H/V) |
| X | 39675 | 2498.5 | -18.39 | 38.99 | 20.60 | 114.82 | H |
| | 40620 | 2593.0 | -17.74 | 38.17 | 20.43 | 110.41 | |
| | 41565 | 2687.5 | -18.28 | 38.55 | 20.27 | 106.41 | |
| | 39675 | 2498.5 | -28.37 | 39.27 | 10.90 | 12.29 | V |
| | 40620 | 2593.0 | -27.84 | 38.68 | 10.84 | 12.13 | |
| | 41565 | 2687.5 | -28.34 | 38.55 | 10.21 | 10.50 | |

| LTE Band 41 | | | | | | | |
|---------------------------------|---------|-----------------|-----------|-----------------------|-----------|----------|--------------------|
| Channel Bandwidth: 10MHz / QPSK | | | | | | | |
| Plane | Channel | Frequency (MHz) | LVL (dBm) | Correction Factor(dB) | EIRP(dBm) | EIRP(mW) | Polarization (H/V) |
| X | 39700 | 2501.0 | -17.37 | 38.98 | 21.61 | 144.88 | H |
| | 40620 | 2593.0 | -16.70 | 38.17 | 21.47 | 140.28 | |
| | 41540 | 2685.0 | -17.35 | 38.45 | 21.10 | 128.82 | |
| | 39700 | 2501.0 | -27.85 | 39.04 | 11.19 | 13.15 | V |
| | 40620 | 2593.0 | -27.52 | 38.68 | 11.16 | 13.06 | |
| | 41540 | 2685.0 | -27.57 | 38.60 | 11.03 | 12.68 | |

| LTE Band 41 | | | | | | | |
|----------------------------------|---------|-----------------|-----------|-----------------------|-----------|----------|--------------------|
| Channel Bandwidth: 10MHz / 16QAM | | | | | | | |
| Plane | Channel | Frequency (MHz) | LVL (dBm) | Correction Factor(dB) | EIRP(dBm) | EIRP(mW) | Polarization (H/V) |
| X | 39700 | 2501.0 | -18.10 | 38.98 | 20.88 | 122.46 | H |
| | 40620 | 2593.0 | -17.64 | 38.17 | 20.53 | 112.98 | |
| | 41540 | 2685.0 | -18.18 | 38.45 | 20.27 | 106.41 | |
| | 39700 | 2501.0 | -28.06 | 39.04 | 10.98 | 12.53 | V |
| | 40620 | 2593.0 | -27.73 | 38.68 | 10.95 | 12.45 | |
| | 41540 | 2685.0 | -28.25 | 38.60 | 10.35 | 10.84 | |

| LTE Band 41 | | | | | | | |
|---------------------------------|---------|-----------------|-----------|-----------------------|-----------|----------|--------------------|
| Channel Bandwidth: 15MHz / QPSK | | | | | | | |
| Plane | Channel | Frequency (MHz) | LVL (dBm) | Correction Factor(dB) | EIRP(dBm) | EIRP(mW) | Polarization (H/V) |
| X | 39725 | 2503.5 | -17.40 | 39.09 | 21.69 | 147.57 | H |
| | 40620 | 2593.0 | -16.70 | 38.17 | 21.47 | 140.28 | |
| | 41515 | 2682.5 | -17.12 | 38.52 | 21.40 | 138.04 | |
| | 39725 | 2503.5 | -27.68 | 39.04 | 11.36 | 13.68 | V |
| | 40620 | 2593.0 | -27.43 | 38.68 | 11.25 | 13.34 | |
| | 41515 | 2682.5 | -27.58 | 38.66 | 11.08 | 12.82 | |

| LTE Band 41 | | | | | | | |
|----------------------------------|---------|-----------------|-----------|-----------------------|-----------|----------|--------------------|
| Channel Bandwidth: 15MHz / 16QAM | | | | | | | |
| Plane | Channel | Frequency (MHz) | LVL (dBm) | Correction Factor(dB) | EIRP(dBm) | EIRP(mW) | Polarization (H/V) |
| X | 39725 | 2503.5 | -18.17 | 39.09 | 20.92 | 123.59 | H |
| | 40620 | 2593.0 | -17.59 | 38.17 | 20.58 | 114.29 | |
| | 41515 | 2682.5 | -18.12 | 38.52 | 20.40 | 109.65 | |
| | 39725 | 2503.5 | -27.98 | 39.04 | 11.06 | 12.76 | V |
| | 40620 | 2593.0 | -27.67 | 38.68 | 11.01 | 12.62 | |
| | 41515 | 2682.5 | -28.08 | 38.66 | 10.58 | 11.43 | |

| LTE Band 41 | | | | | | | |
|---------------------------------|---------|-----------------|-----------|-----------------------|-----------|----------|--------------------|
| Channel Bandwidth: 20MHz / QPSK | | | | | | | |
| Plane | Channel | Frequency (MHz) | LVL (dBm) | Correction Factor(dB) | EIRP(dBm) | EIRP(mW) | Polarization (H/V) |
| X | 39750 | 2506.0 | -17.18 | 39.26 | 22.08 | 161.44 | H |
| | 40620 | 2593.0 | -16.52 | 38.17 | 21.65 | 146.22 | |
| | 41490 | 2680.0 | -17.20 | 38.71 | 21.51 | 141.58 | |
| | 39750 | 2506.0 | -27.35 | 39.33 | 11.98 | 15.78 | V |
| | 40620 | 2593.0 | -27.31 | 38.68 | 11.37 | 13.71 | |
| | 41490 | 2680.0 | -27.54 | 38.76 | 11.22 | 13.24 | |

| LTE Band 41 | | | | | | | |
|----------------------------------|---------|-----------------|-----------|-----------------------|-----------|----------|--------------------|
| Channel Bandwidth: 20MHz / 16QAM | | | | | | | |
| Plane | Channel | Frequency (MHz) | LVL (dBm) | Correction Factor(dB) | EIRP(dBm) | EIRP(mW) | Polarization (H/V) |
| X | 39750 | 2506.0 | -17.91 | 39.26 | 21.35 | 136.46 | H |
| | 40620 | 2593.0 | -17.25 | 38.17 | 20.92 | 123.59 | |
| | 41490 | 2680.0 | -17.93 | 38.71 | 20.78 | 119.67 | |
| | 39750 | 2506.0 | -28.21 | 39.33 | 11.12 | 12.94 | V |
| | 40620 | 2593.0 | -27.64 | 38.68 | 11.04 | 12.71 | |
| | 41490 | 2680.0 | -28.12 | 38.76 | 10.64 | 11.59 | |

4.2 Frequency Stability Measurement

4.2.1 Limits of Frequency Stability Measurement

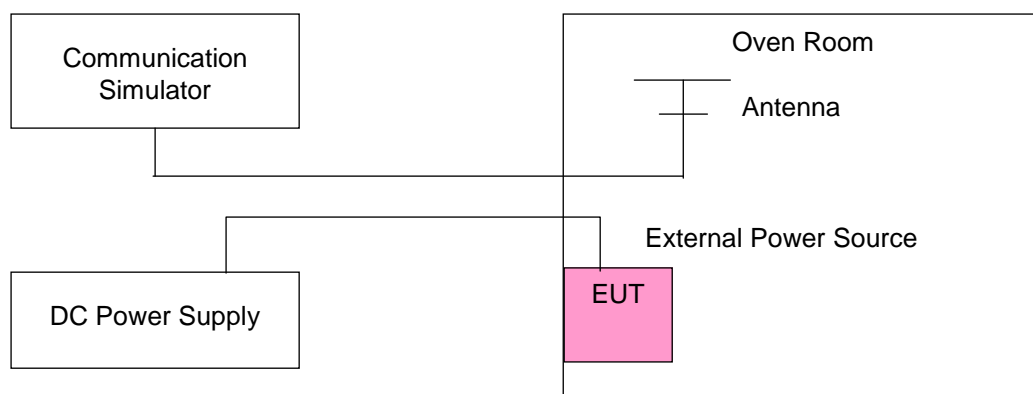
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

4.2.2 Test Procedure

- Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ± 0.5 °C during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

4.2.3 Test Setup



4.2.4 Test Results

Frequency Error vs. Voltage

| Voltage (Volts) | Frequency Error (ppm) | | | | Limit (ppm) |
|-----------------|-----------------------|---------|---------|---------|-------------|
| | LTE Band 41 | | | | |
| | 5MHz | 10MHz | 15MHz | 20MHz | |
| 3.85 | 0.00114 | 0.00044 | 0.00006 | 0.00087 | 2.5 |
| 3.6 | 0.00101 | 0.00034 | 0.00057 | 0.00121 | 2.5 |
| 4.40 | 0.00061 | 0.00147 | 0.00066 | 0.00076 | 2.5 |

NOTE: The applicant defined the normal working voltage of the battery is from 3.6Vdc to 4.40Vdc.

Frequency Error vs. Temperature

| Temp. (°C) | Frequency Error (ppm) | | | | Limit (ppm) |
|------------|-----------------------|----------|----------|----------|-------------|
| | LTE Band 41 | | | | |
| | 5MHz | 10MHz | 15MHz | 20MHz | |
| -30 | 0.00129 | 0.00115 | 0.00039 | 0.00004 | 2.5 |
| -20 | 0.00099 | 0.00091 | 0.00068 | 0.00133 | 2.5 |
| -10 | 0.00061 | 0.00082 | 0.00107 | 0.00073 | 2.5 |
| 0 | 0.00135 | 0.00120 | 0.00096 | 0.00075 | 2.5 |
| 10 | 0.00013 | 0.00019 | 0.00130 | 0.00088 | 2.5 |
| 20 | -0.00073 | -0.00074 | -0.00121 | -0.00108 | 2.5 |
| 30 | -0.00103 | -0.00079 | -0.00088 | -0.00012 | 2.5 |
| 40 | -0.00152 | -0.00071 | -0.00132 | -0.00031 | 2.5 |
| 50 | -0.00102 | -0.00076 | -0.00056 | -0.00126 | 2.5 |
| 60 | -0.00062 | -0.00024 | -0.00136 | -0.00109 | 2.5 |

4.3 Occupied Bandwidth Measurement

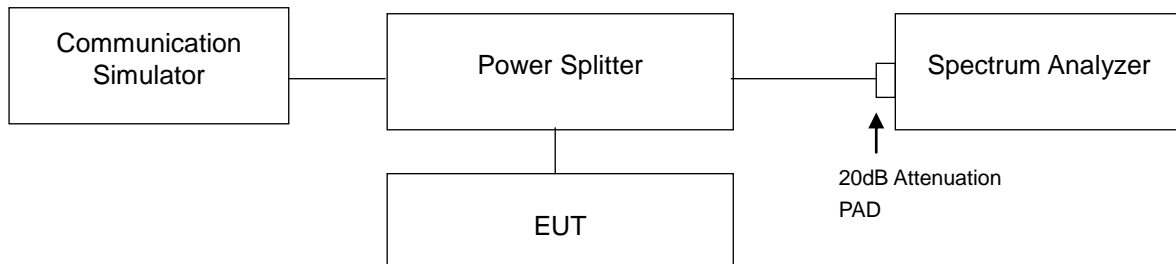
4.3.1 Limits Of Occupied Bandwidth Measurement

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

4.3.2 Test Procedure

- The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

4.3.3 Test Setup

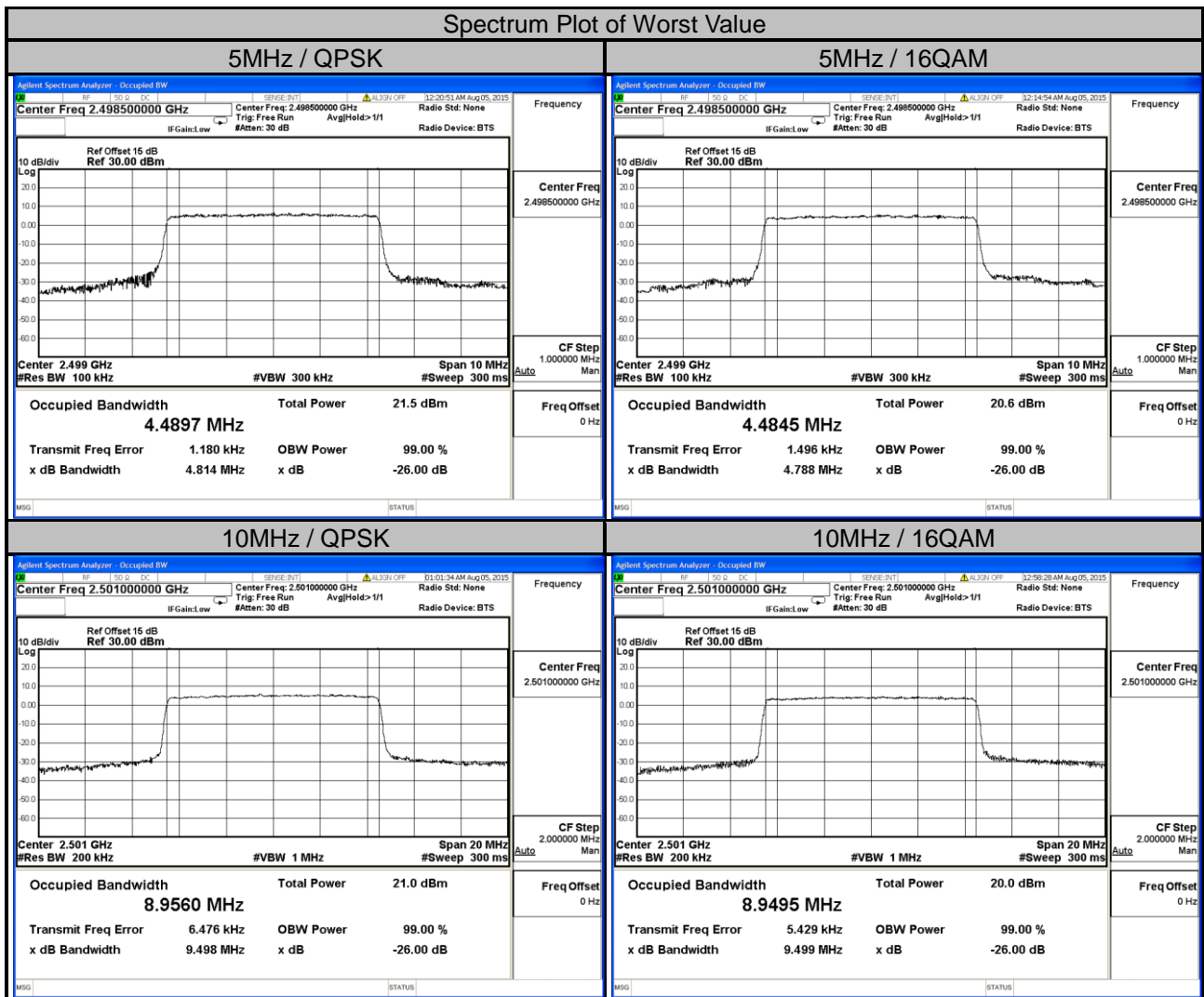




A D T

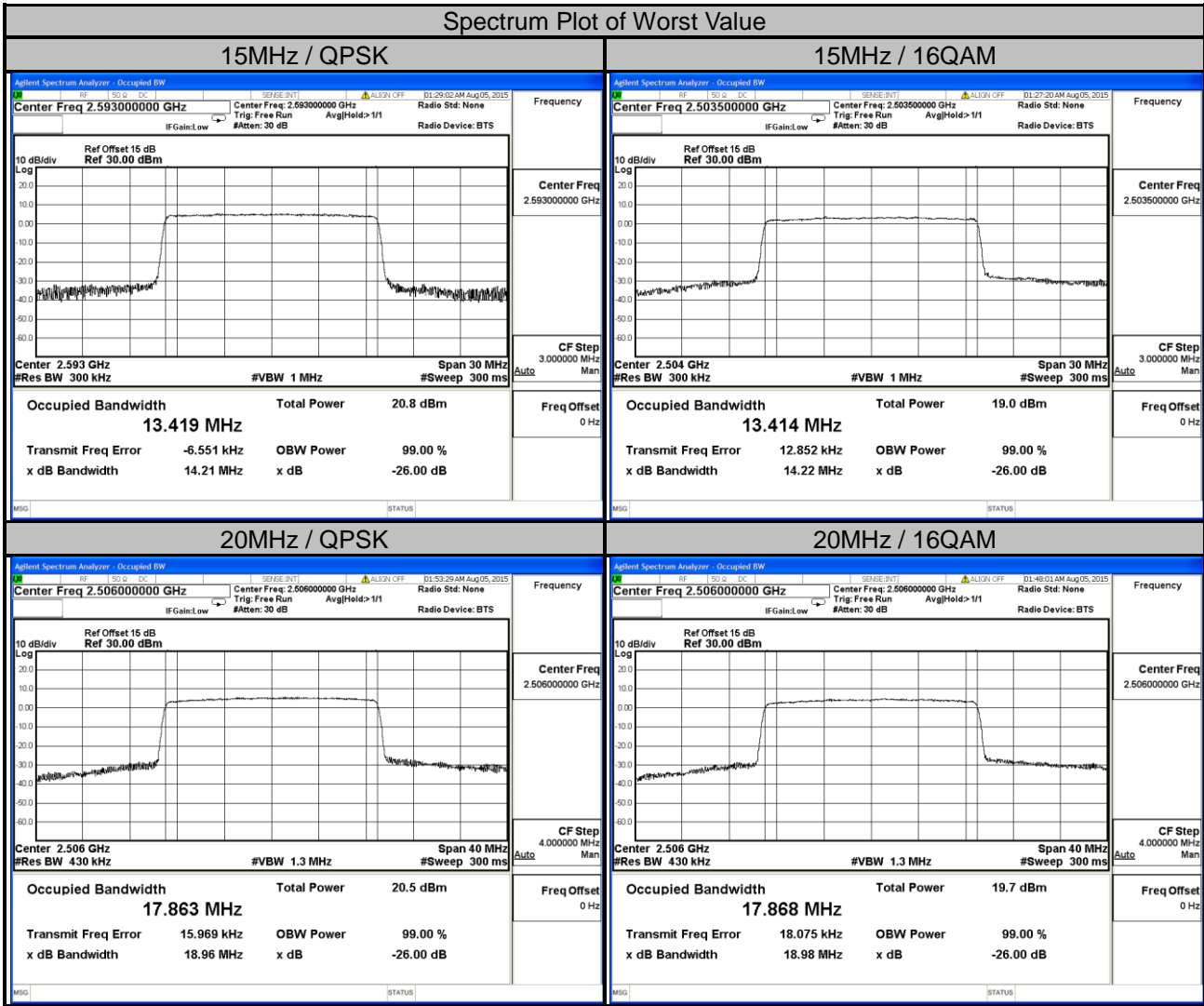
4.3.4 Test Result

| LTE Band 41 | | | | | | | |
|-------------------------|-----------------|------------------------------|--------|--------------------------|-----------------|------------------------------|--------|
| Channel Bandwidth: 5MHz | | | | Channel Bandwidth: 10MHz | | | |
| Channel | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | | Channel | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | |
| | | QPSK | 16QAM | | | QPSK | 16QAM |
| 39675 | 2498.5 | 4.4897 | 4.4845 | 39700 | 2501.0 | 8.9560 | 8.9495 |
| 40620 | 2593.0 | 4.4895 | 4.4798 | 40620 | 2593.0 | 8.9534 | 8.9482 |
| 41565 | 2687.5 | 4.4855 | 4.4809 | 41540 | 2685.0 | 8.9479 | 8.9450 |





| LTE Band 41 | | | | | | | |
|--------------------------|-----------------|------------------------------|--------|--------------------------|-----------------|------------------------------|--------|
| Channel Bandwidth: 15MHz | | | | Channel Bandwidth: 20MHz | | | |
| Channel | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | | Channel | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | |
| | | QPSK | 16QAM | | | QPSK | 16QAM |
| 39725 | 2503.5 | 13.417 | 13.414 | 39750 | 2506.0 | 17.863 | 17.868 |
| 40620 | 2593.0 | 13.419 | 13.404 | 40620 | 2593.0 | 17.862 | 17.846 |
| 41515 | 2682.5 | 13.412 | 13.404 | 41490 | 2680.0 | 17.844 | 17.840 |

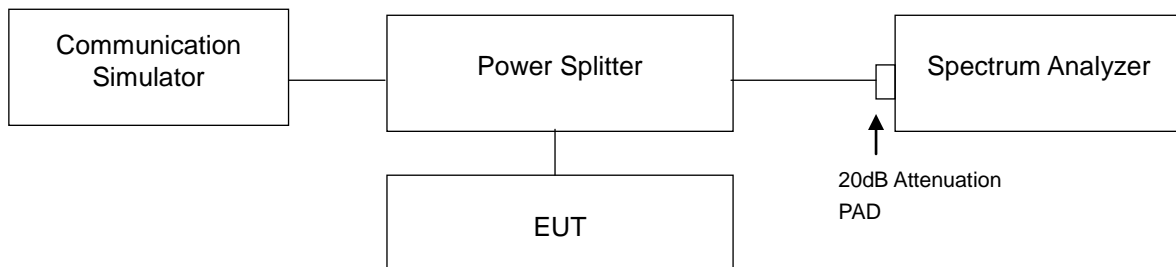


4.4 Band Edge Measurement

4.4.1 Limits of Band Edge Measurement

According to FCC 27.53(l)(4) specified that power of any emission outside of the channel edge must be attenuated below the transmitting power (P) by a factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth. In addition, the attenuation factor shall not be less that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. In the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed.

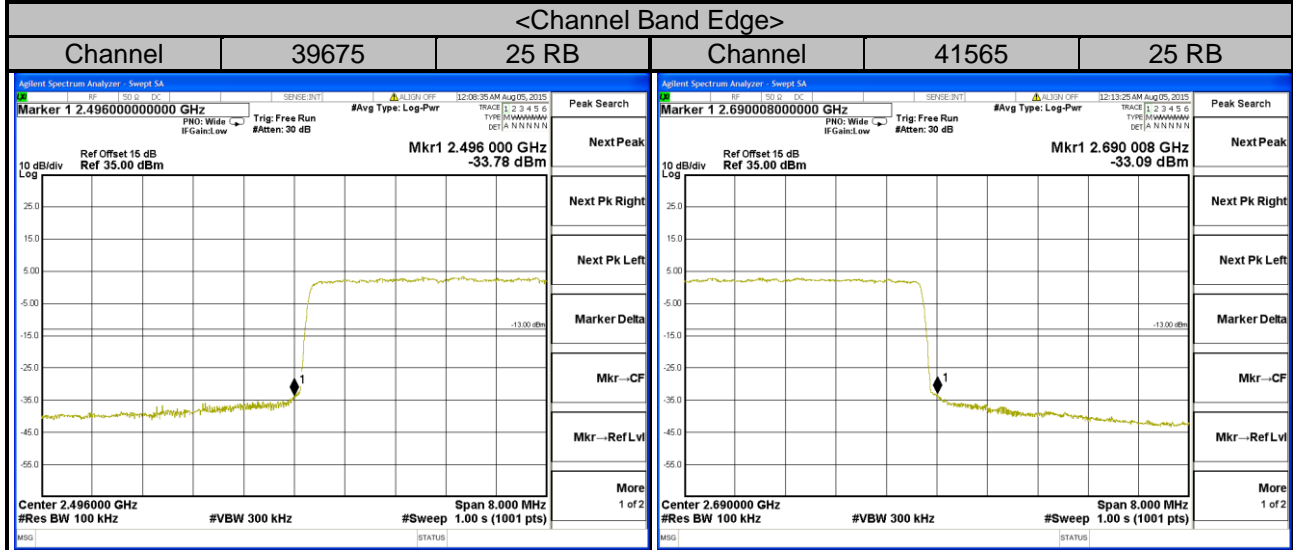
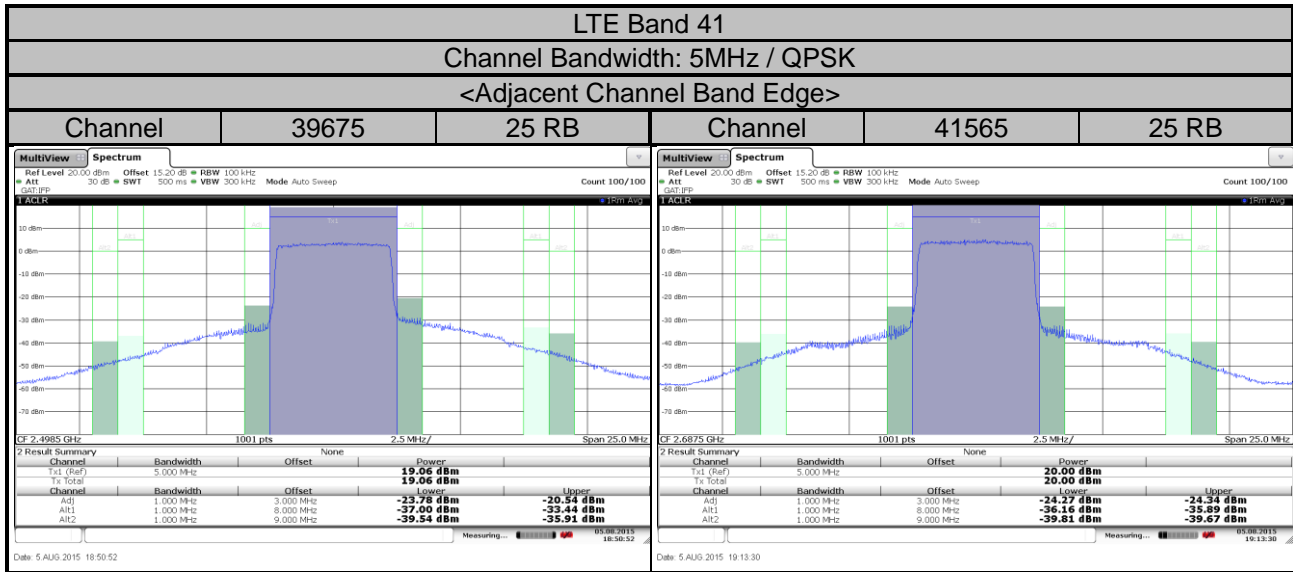
4.4.2 Test Setup



4.4.3 Test Procedures

- a. The EUT was set up for the maximum peak power with LTE link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 2 channels (low and high operational frequency range.).
- b. The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- c. The center frequency of spectrum is the band edge frequency and span is 20MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (Channel bandwidth 5MHz).
- d. The center frequency of spectrum is the band edge frequency and span is 40MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (Channel bandwidth 10MHz).
- e. The center frequency of spectrum is the band edge frequency and span is 60MHz. RB of the spectrum is 200kHz and VB of the spectrum is 1MHz (Channel bandwidth 15MHz).
- f. The center frequency of spectrum is the band edge frequency and span is 80MHz. RB of the spectrum is 200kHz and VB of the spectrum is 1MHz (Channel bandwidth 20MHz).
- g. Record the max trace plot into the test report.

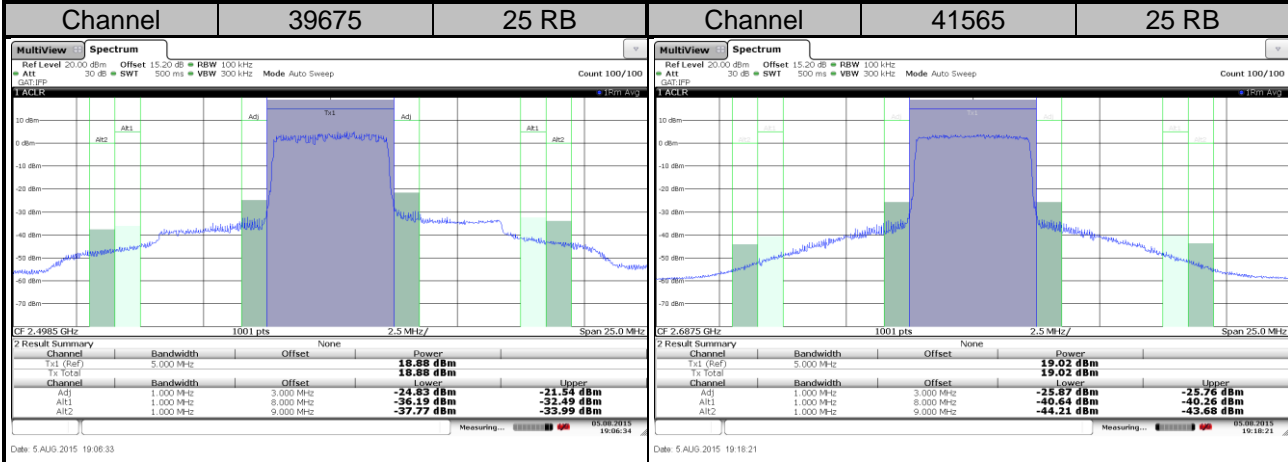
4.4.4 Test Results



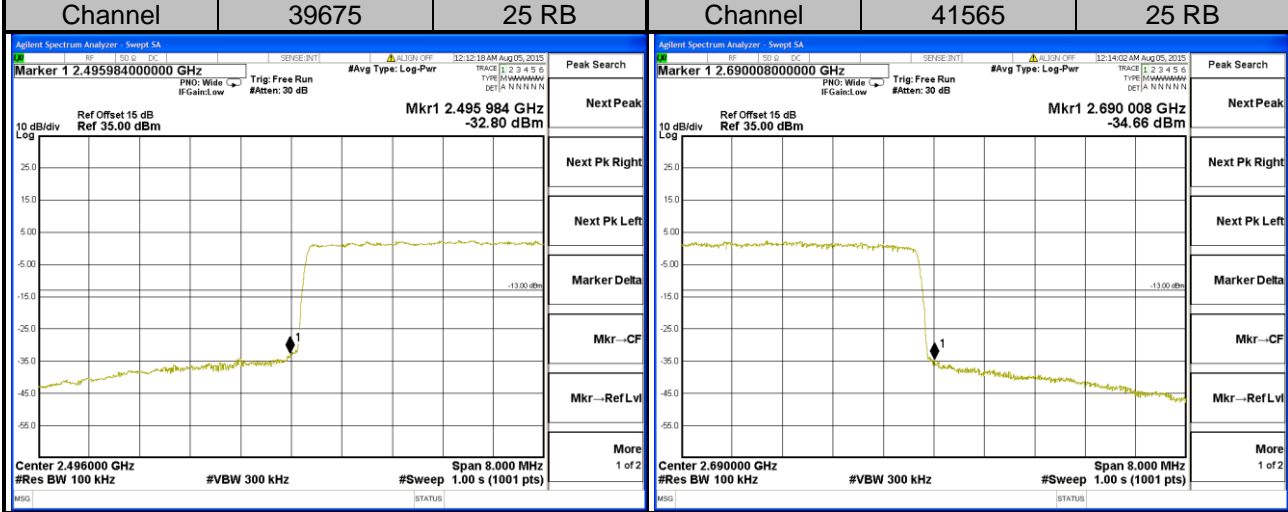


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LTE Band 41
Channel Bandwidth: 5MHz / 16QAM
<Adjacent Channel Band Edge>



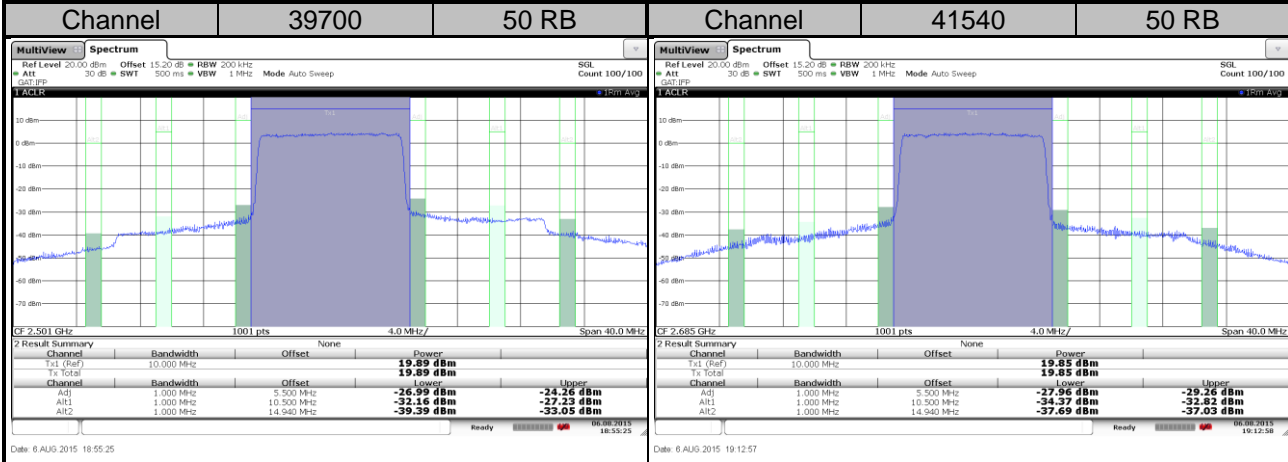
<Channel Band Edge>



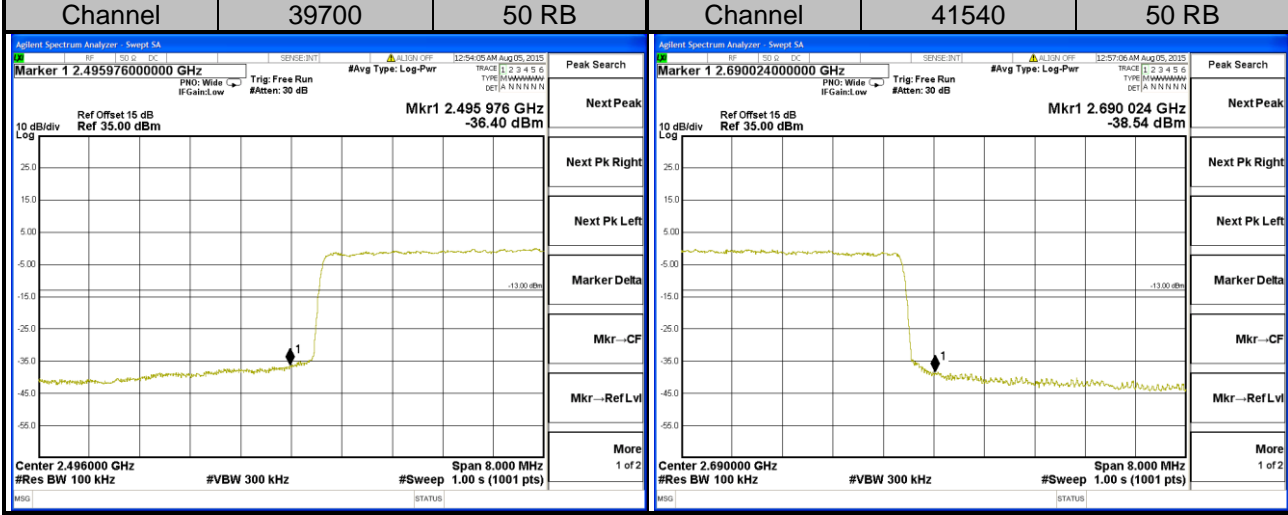


A D T

LTE Band 41
Channel Bandwidth: 10MHz / QPSK
<Adjacent Channel Band Edge>



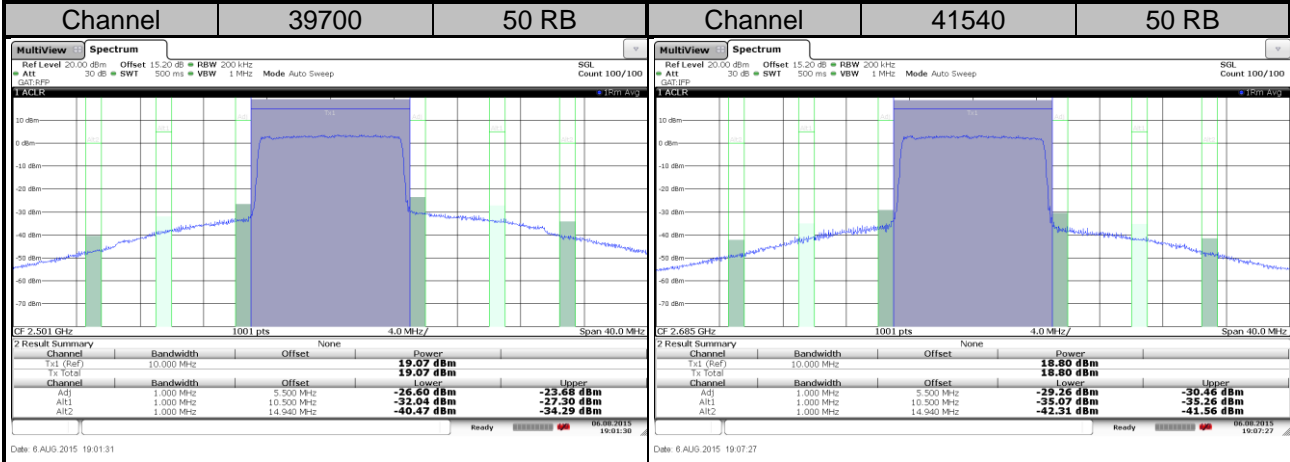
<Channel Band Edge>



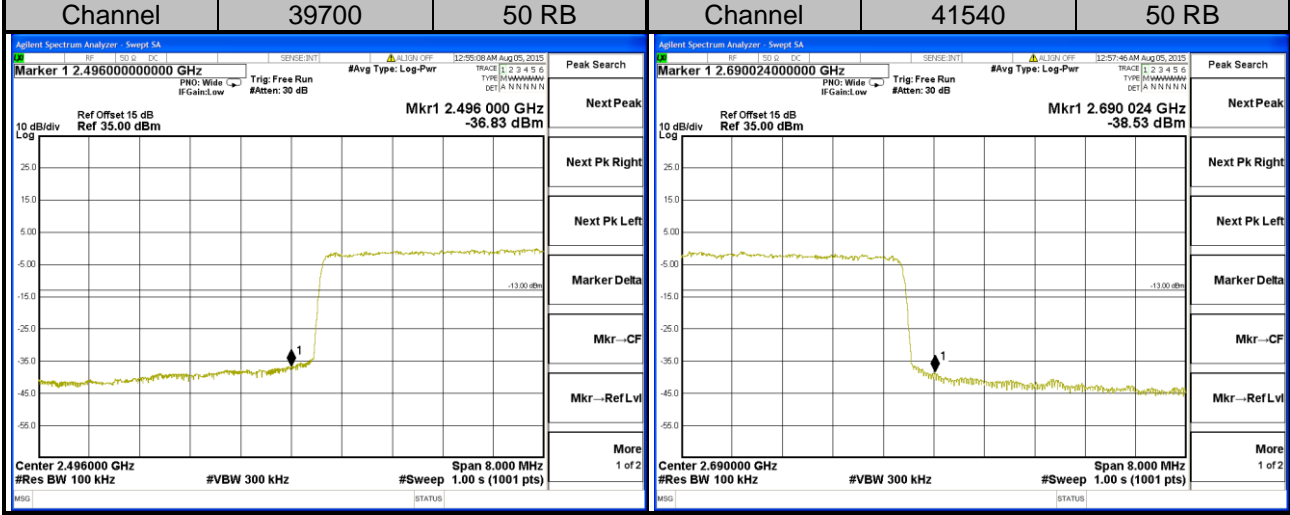


A D T

LTE Band 41
Channel Bandwidth: 10MHz / 16QAM
<Adjacent Channel Band Edge>



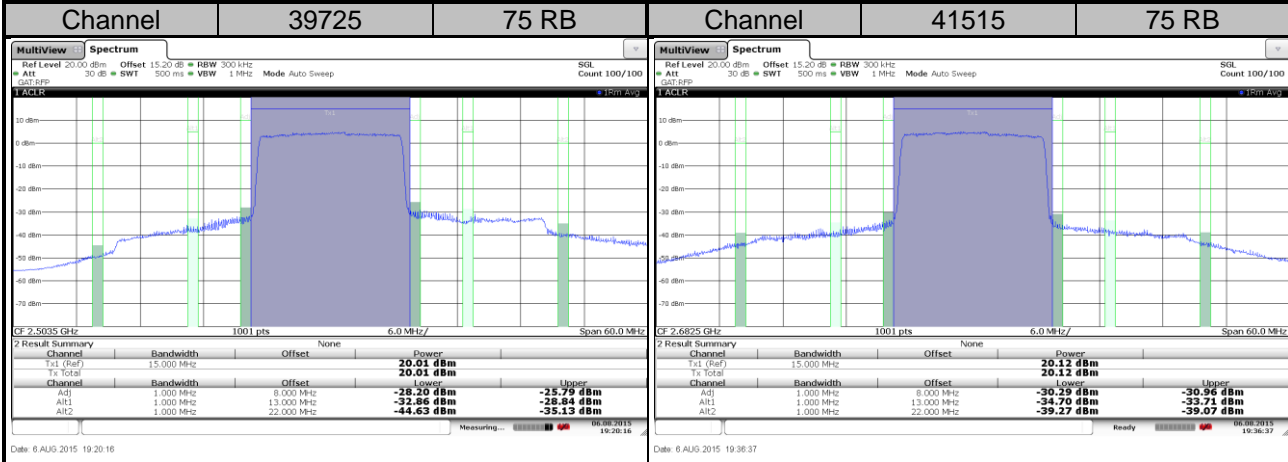
<Channel Band Edge>



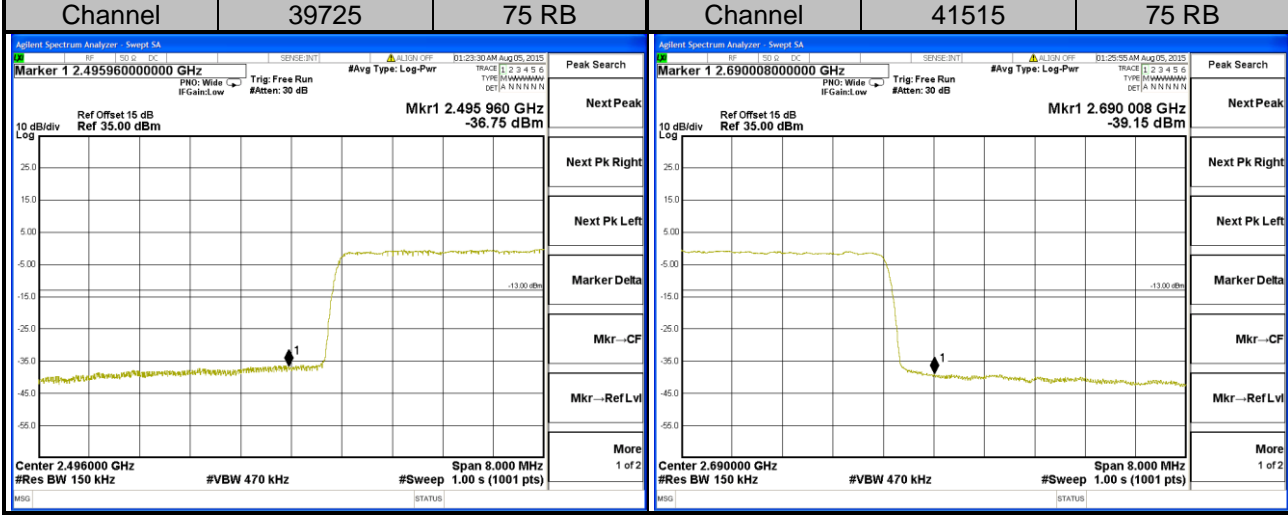


A D T

LTE Band 41
Channel Bandwidth: 15MHz / QPSK
<Adjacent Channel Band Edge>



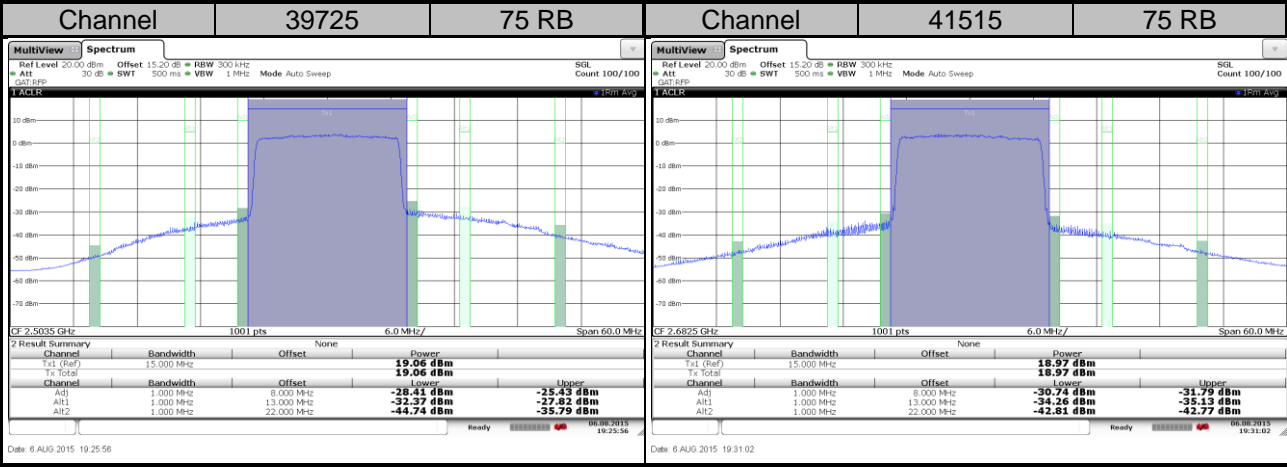
<Channel Band Edge>



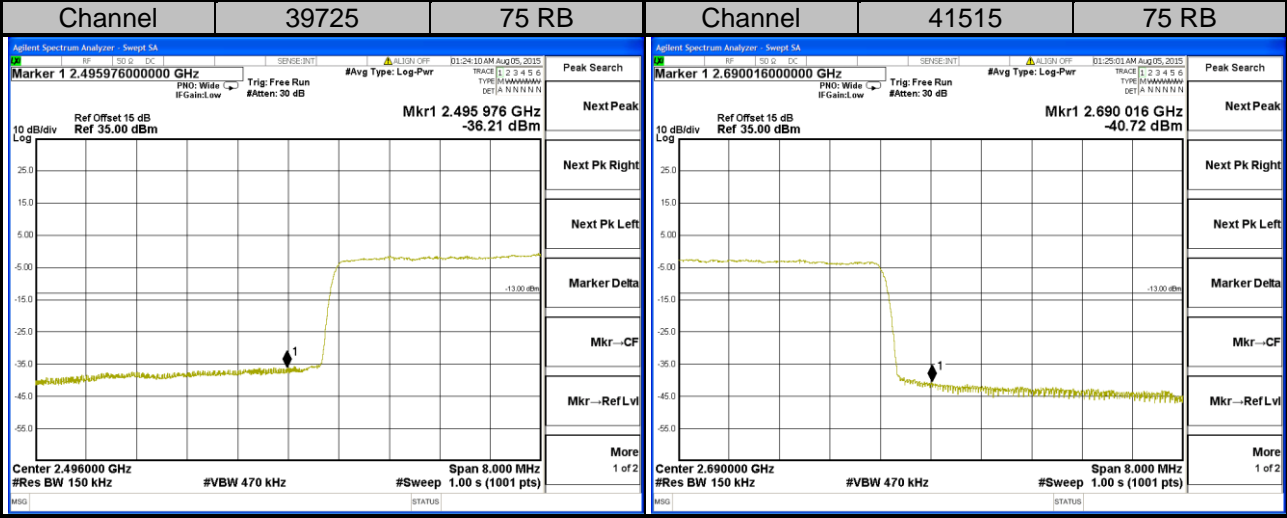


A D T

LTE Band 41
 Channel Bandwidth: 15MHz / 16QAM
 <Adjacent Channel Band Edge>

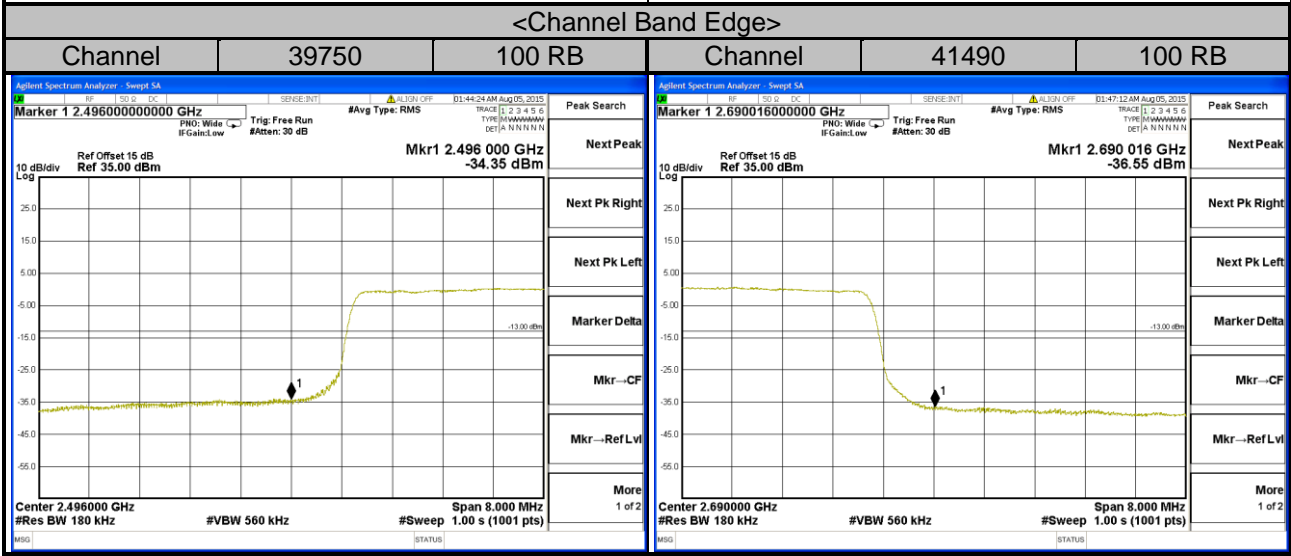
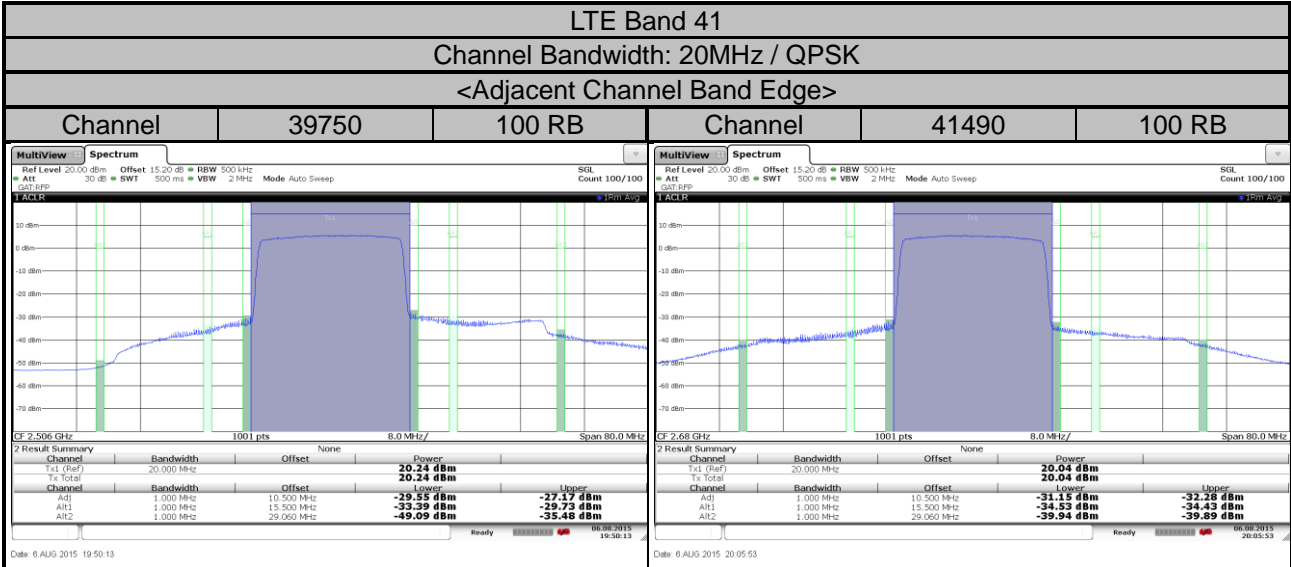


<Channel Band Edge>





A D T



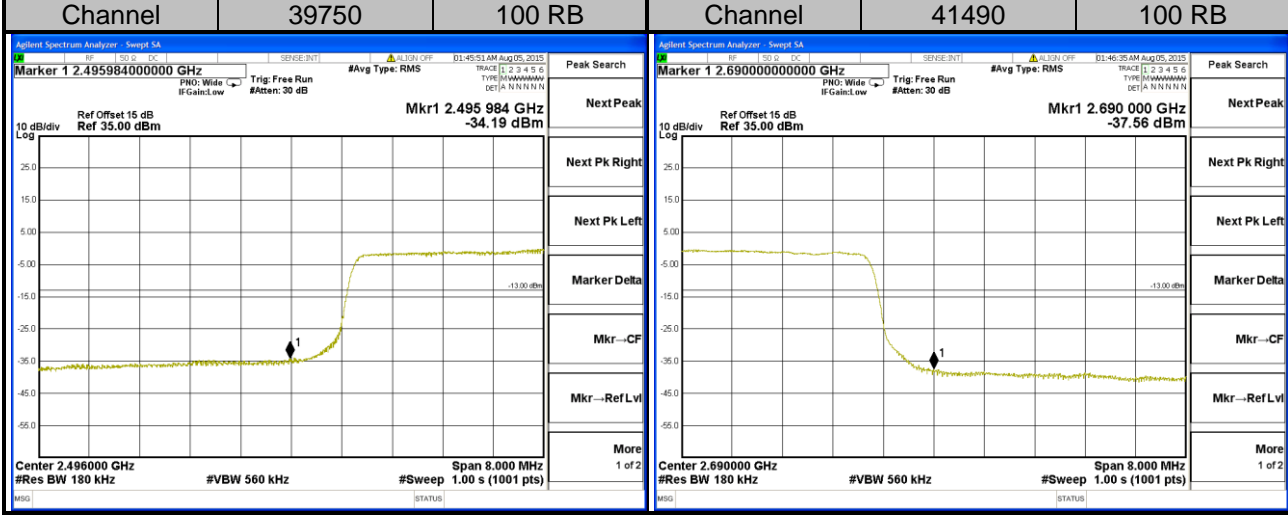


A D T

LTE Band 41
Channel Bandwidth: 20MHz / 16QAM
<Adjacent Channel Band Edge>



<Channel Band Edge>

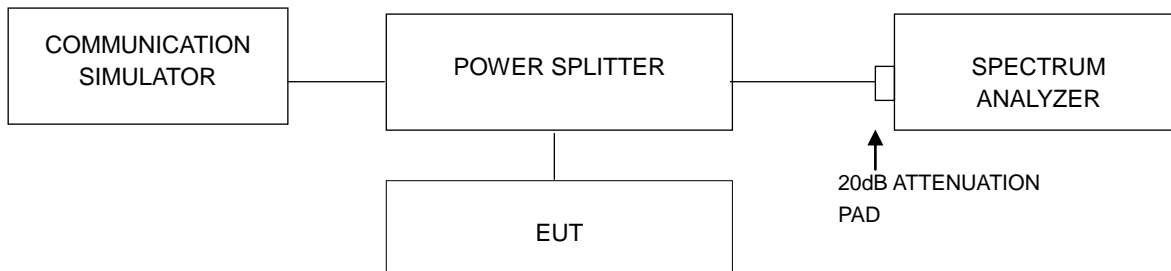


4.5 Peak To Average Ratio

4.5.1 Limits of Peak To Average Ratio Measurement

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

4.5.2 Test Setup

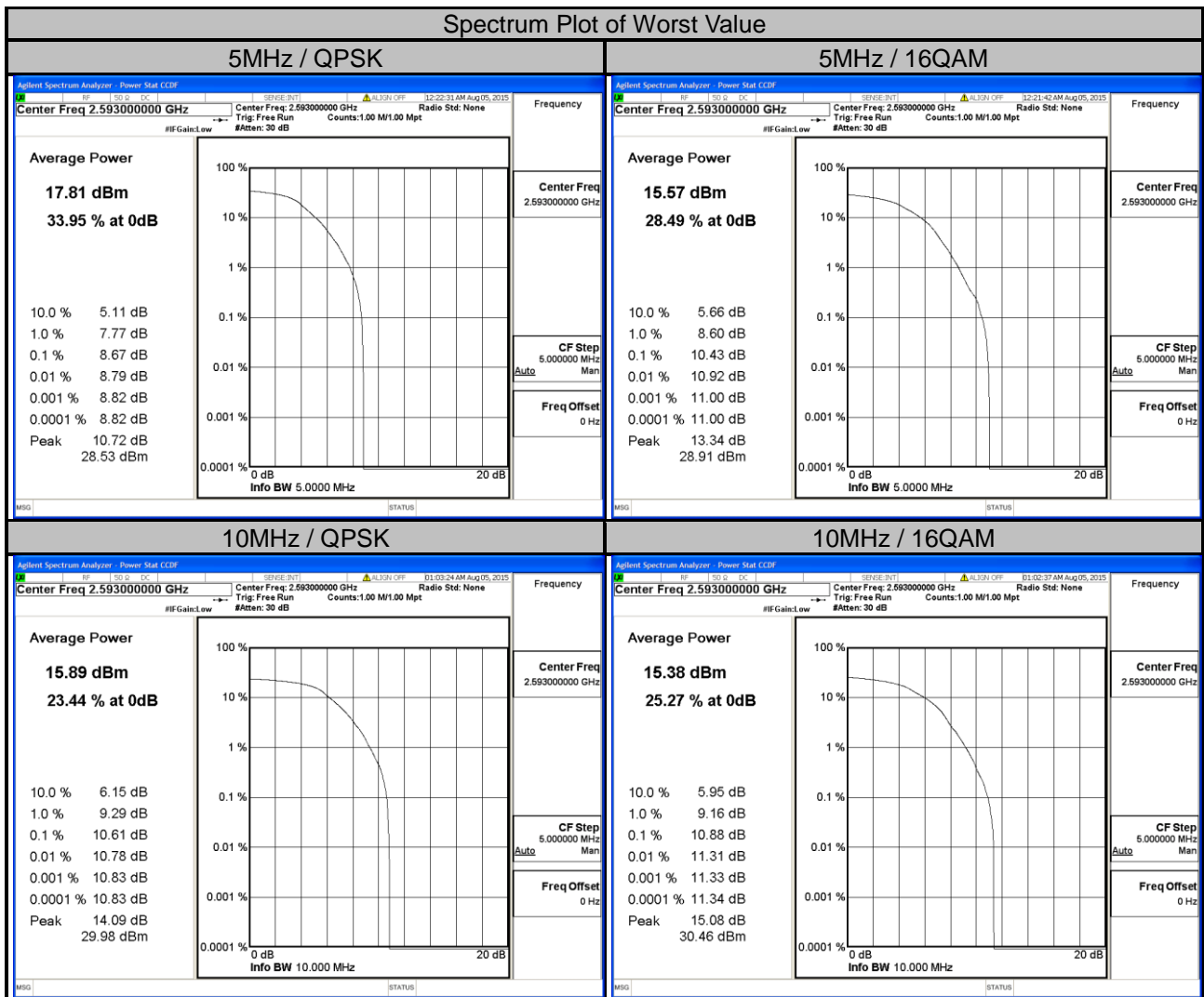


4.5.3 Test Procedures

1. Set resolution/measurement bandwidth \geq signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.

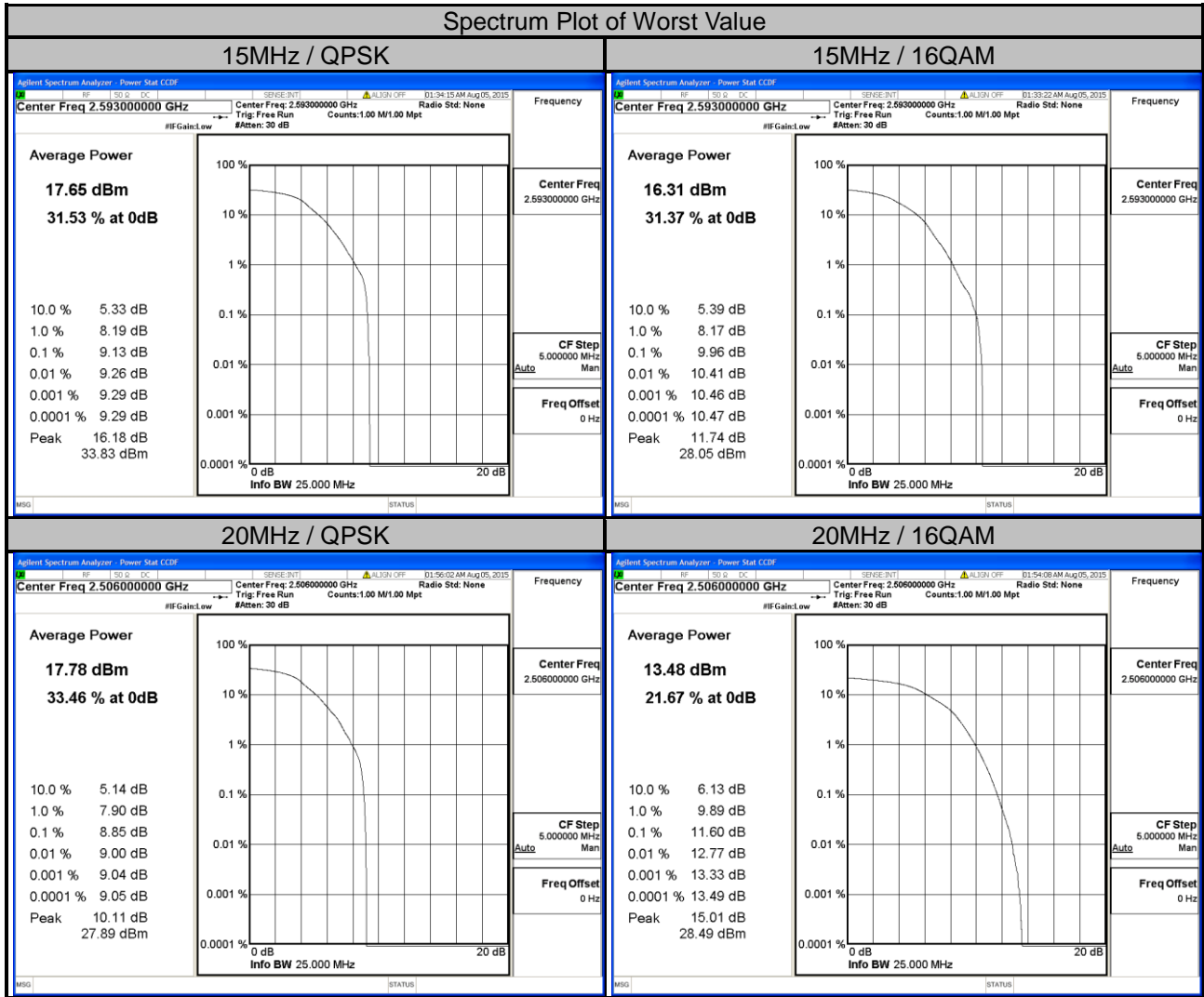
4.5.4 Test Results

| LTE Band 41 | | | | | | | |
|-------------------------|-----------------|----------------------------|-------|--------------------------|-----------------|----------------------------|-------|
| Channel Bandwidth: 5MHz | | | | Channel Bandwidth: 10MHz | | | |
| Channel | Frequency (MHz) | Peak to Average Ratio (dB) | | Channel | Frequency (MHz) | Peak to Average Ratio (dB) | |
| | | QPSK | 16QAM | | | QPSK | 16QAM |
| 39675 | 2498.5 | 8.41 | 9.69 | 39700 | 2501.0 | 8.52 | 9.37 |
| 40620 | 2593.0 | 8.67 | 10.43 | 40620 | 2593.0 | 10.61 | 10.88 |
| 41565 | 2687.5 | 7.69 | 9.64 | 41540 | 2685.0 | 7.50 | 8.94 |





| LTE Band 41 | | | | | | | |
|--------------------------|-----------------|----------------------------|-------|--------------------------|-----------------|----------------------------|-------|
| Channel Bandwidth: 15MHz | | | | Channel Bandwidth: 20MHz | | | |
| Channel | Frequency (MHz) | Peak to Average Ratio (dB) | | Channel | Frequency (MHz) | Peak to Average Ratio (dB) | |
| | | QPSK | 16QAM | | | QPSK | 16QAM |
| 39725 | 2503.5 | 8.28 | 9.91 | 39750 | 2506.0 | 8.85 | 11.60 |
| 40620 | 2593.0 | 9.13 | 9.96 | 40620 | 2593.0 | 8.34 | 9.06 |
| 41515 | 2682.5 | 7.28 | 9.16 | 41490 | 2680.0 | 8.07 | 9.40 |

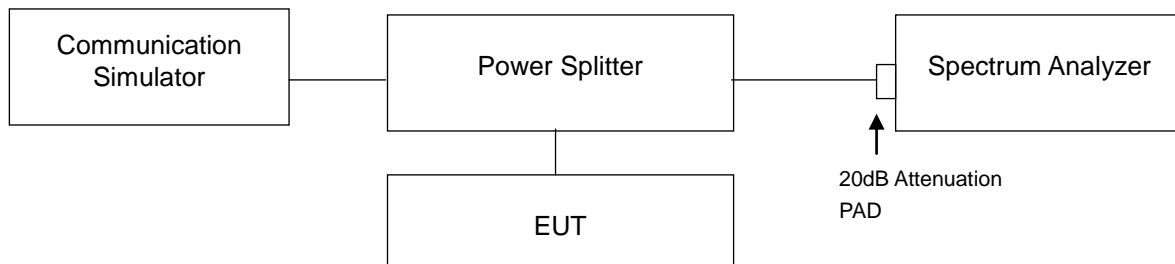


4.6 Conducted Spurious Emissions

4.6.1 Limits of Conducted Spurious Emissions Measurement

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $55 + 10 \log_{10}(P)$ dB. The limit of emission is equal to -25dBm.

4.6.2 Test Setup



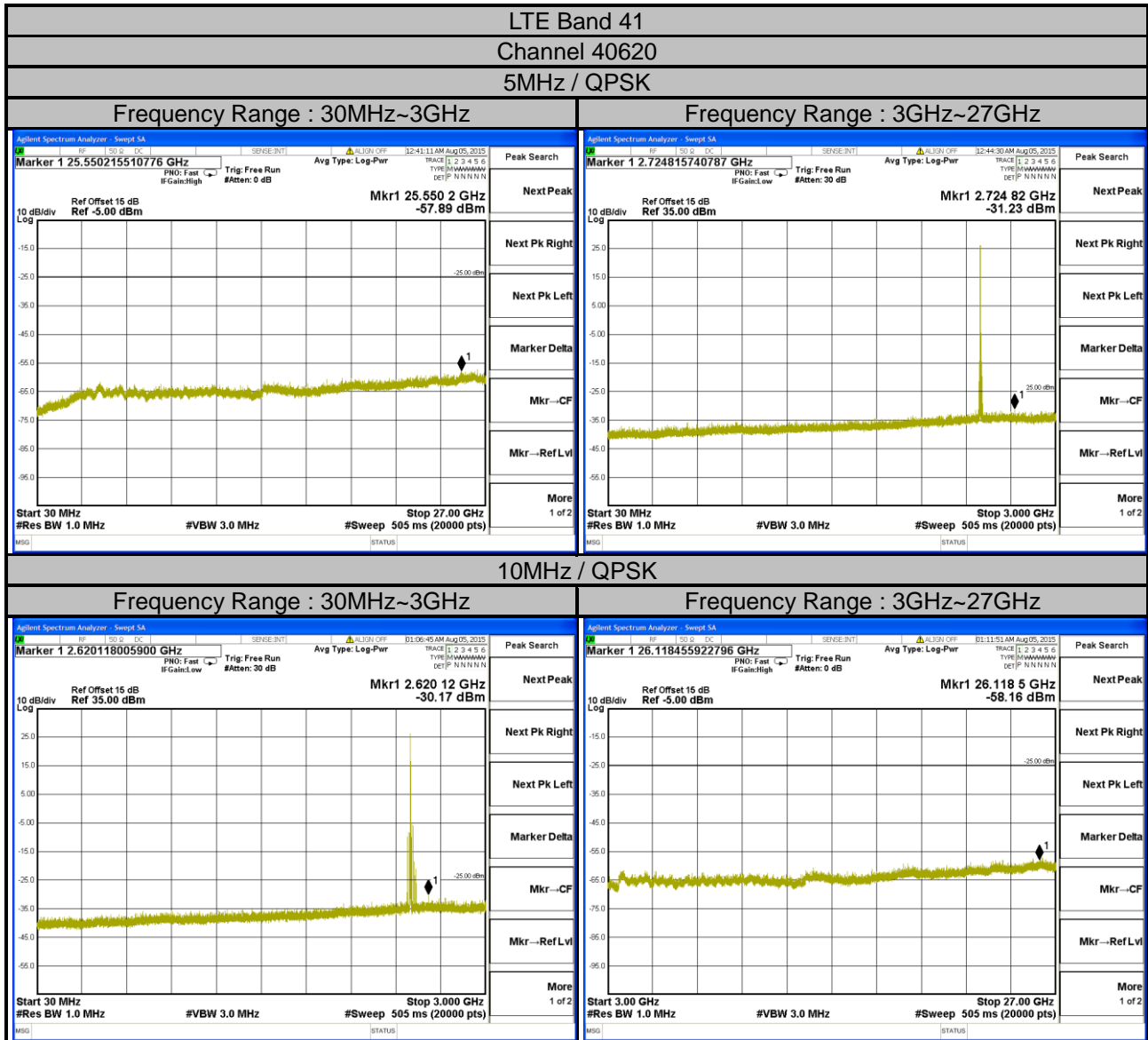
4.6.3 Test Procedure

- The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- Measuring frequency range is from 30MHz to 27GHz for LTE Band 41. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz are used for conducted emission measurement.



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4.6.4 Test Results



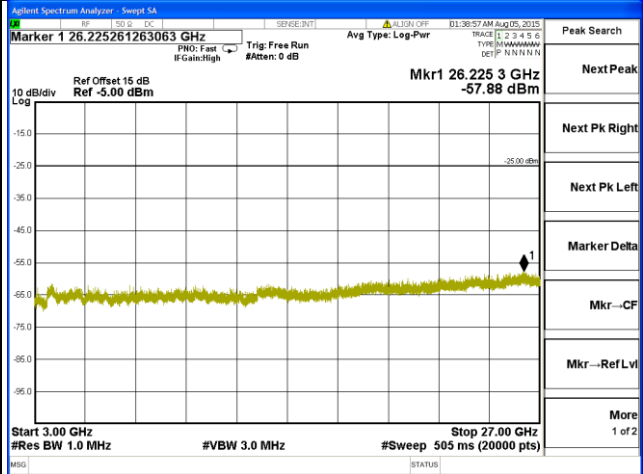
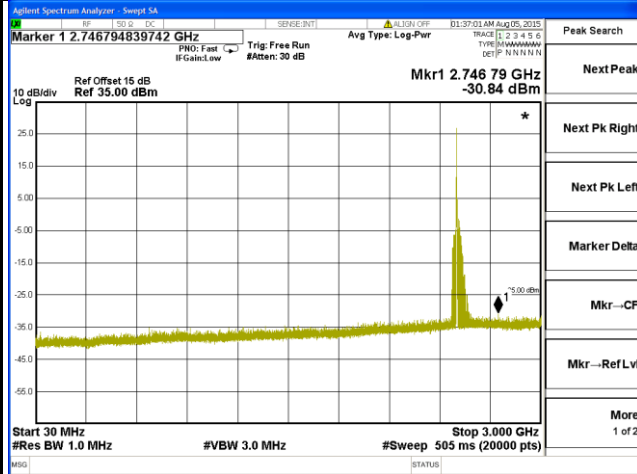


A D T

LTE Band 41
Channel 40620
15MHz / QPSK

Frequency Range : 30MHz~3GHz

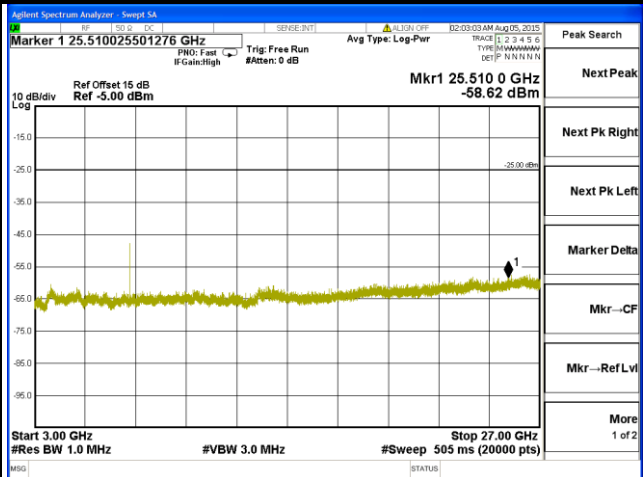
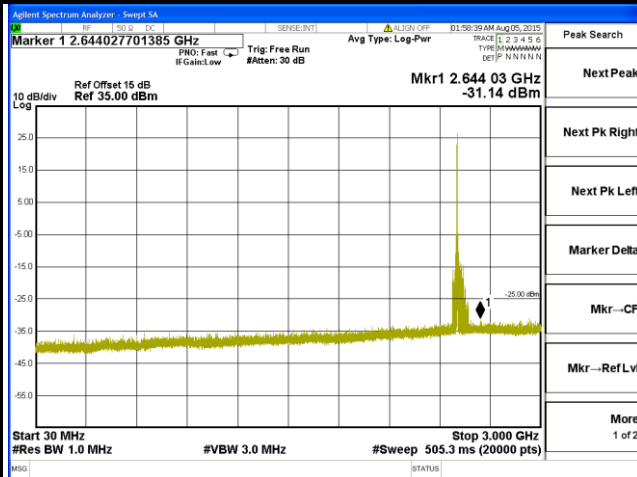
Frequency Range : 3GHz~27GHz



20MHz / QPSK

Frequency Range : 30MHz~3GHz

Frequency Range : 3GHz~27GHz



4.7 Radiated Emission Measurement

4.7.1 Limits of Radiated Emission Measurement

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $55 + 10 \log_{10}(P)$ dB. The limit of emission equal to -25dBm.

4.7.2 Test Procedure

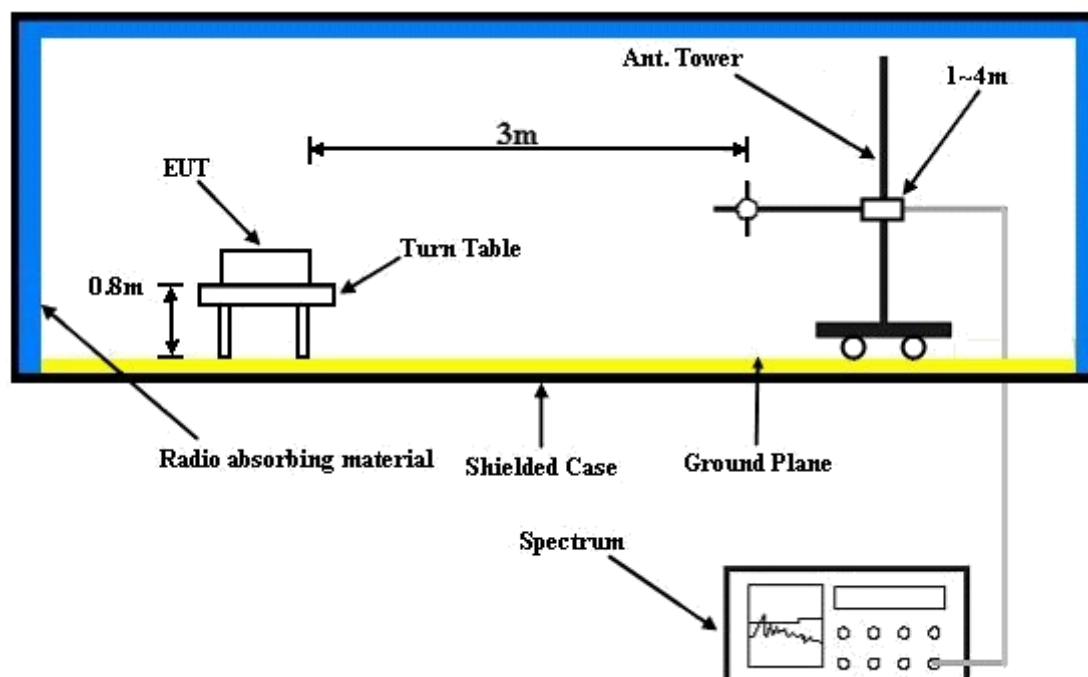
- Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G
- $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn.}$
- E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, $E.R.P \text{ power} = E.I.P.R \text{ power} - 2.15dBi.$

NOTE: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

4.7.3 Deviation from Test Standard

No deviation.

4.7.4 Test Setup



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.7.5 Test Results

LTE Band 41

Channel Bandwidth: 20MHz / QPSK

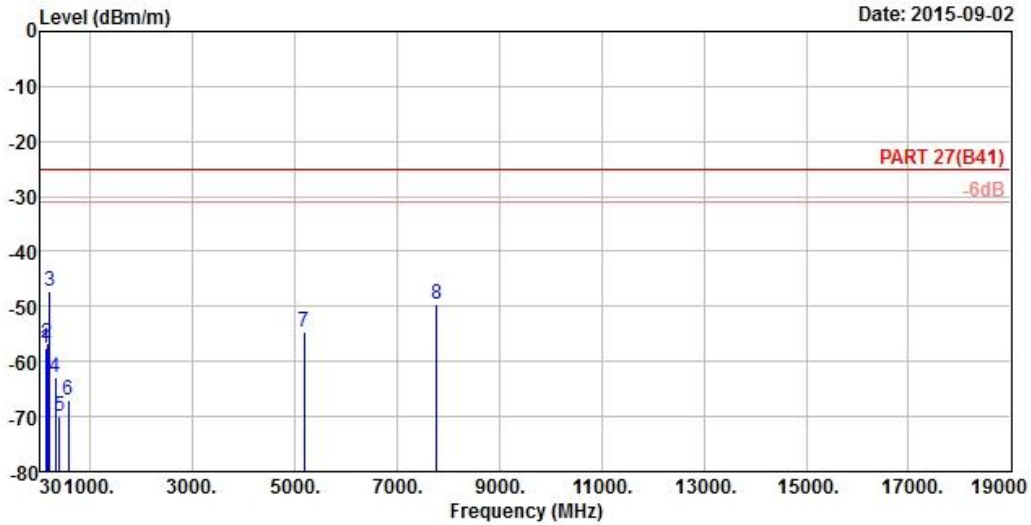


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 13

Date: 2015-09-02



Site : 966 Chamber 5
 Condition: PART 27(B41) 3m HORIZONTAL
 Remark : LTE Band 41_QPSK_20M_(1,50)
 Tested by: Anson Lin
 Plane : Z

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|------|---------|--------|------------|------------|------------|--------|--------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | |
| 1 | 127.20 | -57.70 | -48.66 | -25.00 | -32.70 | -9.04 | Peak |
| 2 | 159.87 | -56.74 | -51.90 | -25.00 | -31.74 | -4.84 | Peak |
| 3 pp | 213.33 | -47.14 | -39.67 | -25.00 | -22.14 | -7.47 | Peak |
| 4 | 321.70 | -62.84 | -56.17 | -25.00 | -37.84 | -6.67 | Peak |
| 5 | 395.90 | -69.94 | -63.97 | -25.00 | -44.94 | -5.97 | Peak |
| 6 | 578.60 | -67.15 | -65.51 | -25.00 | -42.15 | -1.64 | Peak |
| 7 | 5186.00 | -54.57 | -51.71 | -25.00 | -29.57 | -2.86 | Peak |
| 8 | 7779.00 | -49.65 | -54.77 | -25.00 | -24.65 | 5.12 | Peak |

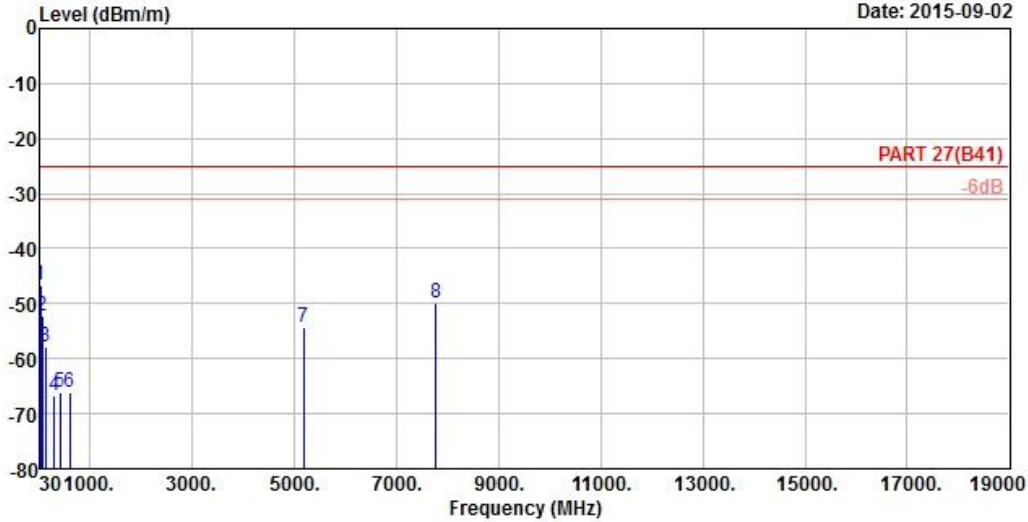


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 14

Date: 2015-09-02



Site : 966 Chamber 5
 Condition: PART 27(B41) 3m VERTICAL
 Remark : LTE Band 41_QPSK_20M_(1,50)
 Tested by: Anson Lin
 Plane : Z

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|---|------|---------|------------|------------|------------|--------|------------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | |
| 1 | pp | 41.34 | -46.75 | -46.34 | -25.00 | -21.75 | -0.41 Peak |
| 2 | | 65.10 | -52.20 | -44.17 | -25.00 | -27.20 | -8.03 Peak |
| 3 | | 127.47 | -57.90 | -48.86 | -25.00 | -32.90 | -9.04 Peak |
| 4 | | 307.70 | -66.84 | -59.95 | -25.00 | -41.84 | -6.89 Peak |
| 5 | | 409.20 | -66.26 | -60.39 | -25.00 | -41.26 | -5.87 Peak |
| 6 | | 612.90 | -66.14 | -65.35 | -25.00 | -41.14 | -0.79 Peak |
| 7 | | 5186.00 | -54.46 | -51.60 | -25.00 | -29.46 | -2.86 Peak |
| 8 | | 7779.00 | -49.79 | -54.91 | -25.00 | -24.79 | 5.12 Peak |



5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).



Appendix – Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

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