

# FCC/IC RF Test Report

APPLICANT : Sierra Wireless Inc.  
EQUIPMENT : Radio Module  
BRAND NAME : AirPrime  
MODEL NAME : EM7565-9  
FCC ID : N7NEM75L  
IC : 2417C-EM75L  
STANDARD : 47 CFR Part 2, 24(E), 27  
IC RSS-130 issue 1  
IC RSS-133 issue 6  
IC RSS-199 issue 3  
CLASSIFICATION : PCS Licensed Transmitter (PCB)

This is a partial report, which the effective radiated power and equivalent isotropic radiated power testing are not included. The product was received on Sep. 19, 2017 and completely tested on Oct. 31, 2017. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA / EIA-603-E and the testing has shown the tested sample to be in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.



Reviewed by: Joseph Lin / Supervisor



Approved by: Jones Tsai / Manager



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FCC ID : N7NEM75L

IC : 2417C-EM75L

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## REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION                              | ISSUED DATE   |
|------------|---------|------------------------------------------|---------------|
| FG791919B  | Rev. 01 | Initial issue of report                  | Oct. 13, 2017 |
| FG791919B  | Rev. 02 | Revise power in appendix A and B         | Nov. 01, 2017 |
| FG791919B  | Rev. 03 | Remove band 30 information in appendix B | Nov. 07, 2017 |
|            |         |                                          |               |
|            |         |                                          |               |
|            |         |                                          |               |
|            |         |                                          |               |
|            |         |                                          |               |
|            |         |                                          |               |
|            |         |                                          |               |
|            |         |                                          |               |
|            |         |                                          |               |
|            |         |                                          |               |
|            |         |                                          |               |
|            |         |                                          |               |

**SUMMARY OF TEST RESULT**

| Report Section | FCC Rule                                              | IC Rule                                                         | Description                                                                            | Limit                         | Result | Remark |
|----------------|-------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------|--------|--------|
| 3.4            | §2.1046                                               | RSS-Gen(6.12)<br>RSS-130(4.4)<br>RSS-133 (6.4)<br>RSS-199 (4.4) | Conducted Output Power                                                                 | Reporting Only                | PASS   | -      |
| 3.5            | §24.232(d)                                            | RSS-130(4.4)<br>RSS-133 (6.4)                                   | Peak-to-Average Ratio                                                                  | <13 dB                        | PASS   | -      |
| 3.6            | §2.1049                                               | RSS-GEN(6.6)<br>RSS-133 (3.1)<br>RSS-130 (3.1)<br>RSS-199 (4.2) | Occupied Bandwidth                                                                     | Reporting Only                | PASS   | -      |
| 3.7            | §2.1051<br>§24.238(a)<br>§27.53(c)(2)(4)<br>§27.53(g) | RSS-133 (6.5.1)<br>RSS-130(4.6)                                 | Conducted Band Edge Measurement<br>(Band 2) (Band 12) (Band 13)<br>(Band 26) (Band 66) | < 43+10log10(P[Watts])        | PASS   | -      |
|                | §27.53(m)(4)                                          | RSS-199 (4.5)                                                   | Conducted Band Edge Measurement<br>(Band 7) (Band 41)                                  | §27.53(m)(4)<br>RSS-199 (4.5) |        |        |



| Report Section | FCC Rule                                                        | IC Rule                                                        | Description                                                                        | Limit                               | Result | Remark                                    |
|----------------|-----------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------|--------|-------------------------------------------|
| 3.8            | §2.1051<br>§24.238(a)<br>§27.53(c)(2)<br>§27.53(g)              | RSS-133 (6.5.1)<br>RSS-130(4.6)                                | Conducted Spurious Emission<br>(Band 2) (Band 12) (Band 13)<br>(Band 26) (Band 66) | $< 43+10\log_{10}(P[\text{Watts}])$ | PASS   | -                                         |
|                | §2.1051<br>§27.53(m)(4)                                         | RSS-199 (4.5)                                                  | Conducted Spurious Emission<br>(Band 7) (Band 41)                                  | $< 55+10\log_{10}(P[\text{Watts}])$ |        |                                           |
| 3.9            | §2.1055<br>§24.235<br>§27.54                                    | RSS-GEN(6.11)<br>RSS-133(6.3)<br>RSS-130(4.3)<br>RSS-199 (4.3) | Frequency Stability<br>Temperature & Voltage                                       | Within Authorized Band              | PASS   | -                                         |
| 4.4            | §2.1053<br>§24.238(a)<br>§27.53(c)(2)<br>§27.53(f)<br>§27.53(g) | RSS-133 (6.5.1)<br>RSS-130(4.6)                                | Radiated Spurious Emission<br>(Band 2) (Band 12) (Band 13)<br>(Band 26) (Band 66)  | $< 43+10\log_{10}(P[\text{Watts}])$ | PASS   | Under limit<br>3.10 dB at<br>7662.000 MHz |
|                | §2.1053<br>§27.53(m)(4)                                         | RSS-199 (4.5)                                                  | Radiated Spurious Emission<br>(Band 7)(Band 41)                                    | $< 55+10\log_{10}(P[\text{Watts}])$ |        |                                           |



# 1 General Description

## 1.1 Applicant

**Sierra Wireless Inc.**

13811 Wireless Way Richmond, BC Canada V6V 3A4

## 1.2 Manufacturer

**Sierra Wireless Inc.**

13811 Wireless Way Richmond, BC Canada V6V 3A4

## 1.3 Product Feature of Equipment Under Test

WCDMA/LTE

## 1.4 Modification of EUT

No modifications are made to the EUT during all test items.

## 1.5 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

|                           |                                                                                                                                                                  |           |                            |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------|
| <b>Test Site</b>          | SPORTON INTERNATIONAL INC.                                                                                                                                       |           |                            |
| <b>Test Site Location</b> | No. 52, Hwa Ya 1 <sup>st</sup> Rd., Hwa Ya Technology Park,<br>Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.<br>TEL: +886-3-327-3456<br>FAX: +886-3-328-4978 |           |                            |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b>                                                                                                                                          |           | <b>IC Registration No.</b> |
|                           | TH05-HY                                                                                                                                                          | 03CH07-HY | 4086B-5                    |



## **1.6 Applicable Standards**

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

- ♦ 47 CFR Part 2, 24(E), 27
- ♦ ANSI / TIA / EIA-603-E
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02
- ♦ ANSI C63.26-2015
- ♦ IC RSS-130 Issue 1
- ♦ IC RSS-133 Issue 6
- ♦ IC RSS-199 Issue 3
- ♦ IC RSS-Gen Issue 4

**Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.



## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v02r02 with maximum output power.

| Test Items             | Band | Bandwidth (MHz) |   |   |    |    |    | Modulation |       |       | RB # |      |      | Test Channel |   |   |
|------------------------|------|-----------------|---|---|----|----|----|------------|-------|-------|------|------|------|--------------|---|---|
|                        |      | 1.4             | 3 | 5 | 10 | 15 | 20 | QPSK       | 16QAM | 64QAM | 1    | Half | Full | L            | M | H |
| Max. Output Power      | 2    | ✓               | ✓ | ✓ | ✓  | ✓  | ✓  | ✓          | ✓     | ✓     | ✓    | ✓    | ✓    | ✓            | ✓ | ✓ |
|                        | 7    | -               | - | ✓ | ✓  | ✓  | ✓  | ✓          | ✓     | ✓     | ✓    | ✓    | ✓    | ✓            | ✓ | ✓ |
|                        | 12   | ✓               | ✓ | ✓ | ✓  | -  | -  | ✓          | ✓     | ✓     | ✓    | ✓    | ✓    | ✓            | ✓ | ✓ |
|                        | 13   | -               | - | ✓ | ✓  | -  | -  | ✓          | ✓     | ✓     | ✓    | ✓    | ✓    | ✓            | ✓ | ✓ |
|                        | 26   | ✓               | ✓ | ✓ | ✓  | ✓  | -  | ✓          | ✓     | ✓     | ✓    | ✓    | ✓    | ✓            | ✓ | ✓ |
|                        | 41   | -               | - | ✓ | ✓  | ✓  | ✓  | ✓          | ✓     | ✓     | ✓    | ✓    | ✓    | ✓            | ✓ | ✓ |
|                        | 66   | ✓               | ✓ | ✓ | ✓  | ✓  | ✓  | ✓          | ✓     | ✓     | ✓    | ✓    | ✓    | ✓            | ✓ | ✓ |
| Peak-to-Average Ratio  | 2    |                 |   |   |    |    | ✓  | ✓          | ✓     | ✓     | ✓    |      | ✓    | ✓            | ✓ | ✓ |
|                        | 7    | -               | - |   |    |    | ✓  | ✓          | ✓     | ✓     | ✓    |      | ✓    | ✓            | ✓ | ✓ |
|                        | 12   |                 |   |   | ✓  | -  | -  | ✓          | ✓     | ✓     | ✓    |      | ✓    | ✓            | ✓ | ✓ |
|                        | 13   | -               | - |   | ✓  | -  | -  | ✓          | ✓     | ✓     | ✓    |      | ✓    | ✓            | ✓ | ✓ |
|                        | 26   |                 |   |   |    | ✓  | -  | ✓          | ✓     | ✓     | ✓    |      | ✓    | ✓            | ✓ | ✓ |
|                        | 41   | -               | - |   |    |    | ✓  | ✓          | ✓     | ✓     | ✓    |      | ✓    | ✓            | ✓ | ✓ |
|                        | 66   |                 |   |   |    |    | ✓  | ✓          | ✓     | ✓     | ✓    |      | ✓    | ✓            | ✓ | ✓ |
| 26dB and 99% Bandwidth | 2    | ✓               | ✓ | ✓ | ✓  | ✓  | ✓  | ✓          | ✓     | ✓     |      |      | ✓    | ✓            | ✓ | ✓ |
|                        | 7    | -               | - | ✓ | ✓  | ✓  | ✓  | ✓          | ✓     | ✓     |      |      | ✓    | ✓            | ✓ | ✓ |
|                        | 12   | ✓               | ✓ | ✓ | ✓  | -  | -  | ✓          | ✓     | ✓     |      |      | ✓    | ✓            | ✓ | ✓ |
|                        | 13   | -               | - | ✓ | ✓  | -  | -  | ✓          | ✓     | ✓     |      |      | ✓    | ✓            | ✓ | ✓ |
|                        | 26   | ✓               | ✓ | ✓ | ✓  | ✓  | -  | ✓          | ✓     | ✓     |      |      | ✓    | ✓            | ✓ | ✓ |
|                        | 41   | -               | - | ✓ | ✓  | ✓  | ✓  | ✓          | ✓     | ✓     |      |      | ✓    | ✓            | ✓ | ✓ |
|                        | 66   | ✓               | ✓ | ✓ | ✓  | ✓  | ✓  | ✓          | ✓     | ✓     |      |      | ✓    | ✓            | ✓ | ✓ |



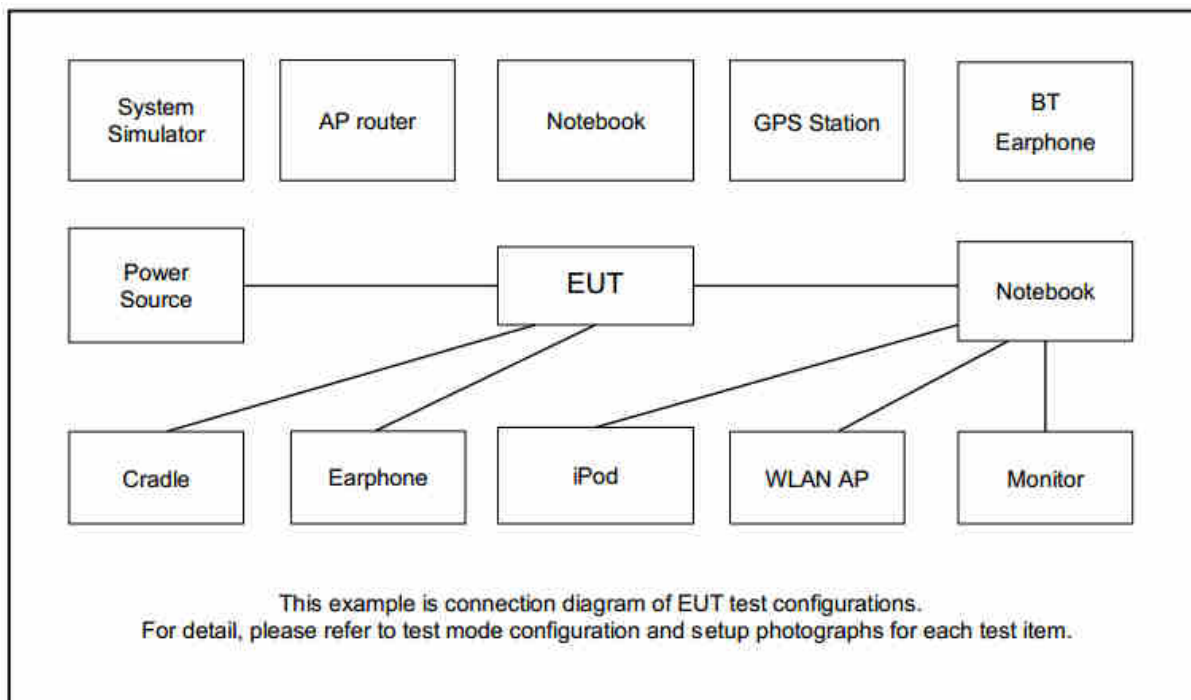
| Test Items                  | Band | Bandwidth (MHz) |   |   |    |    |    | Modulation |       |       | RB # |      |      | Test Channel |   |   |
|-----------------------------|------|-----------------|---|---|----|----|----|------------|-------|-------|------|------|------|--------------|---|---|
|                             |      | 1.4             | 3 | 5 | 10 | 15 | 20 | QPSK       | 16QAM | 64QAM | 1    | Half | Full | L            | M | H |
| Conducted Band Edge         | 2    | ✓               | ✓ | ✓ | ✓  | ✓  | ✓  | ✓          | ✓     | ✓     | ✓    |      | ✓    | ✓            |   | ✓ |
|                             | 7    | -               | - | ✓ | ✓  | ✓  | ✓  | ✓          | ✓     | ✓     | ✓    |      | ✓    | ✓            |   | ✓ |
|                             | 12   | ✓               | ✓ | ✓ | ✓  | -  | -  | ✓          | ✓     | ✓     | ✓    |      | ✓    | ✓            |   | ✓ |
|                             | 13   | -               | - | ✓ | ✓  | -  | -  | ✓          | ✓     | ✓     | ✓    |      | ✓    | ✓            |   | ✓ |
|                             | 26   | ✓               | ✓ | ✓ | ✓  | ✓  | -  | ✓          | ✓     | ✓     | ✓    |      | ✓    | ✓            |   | ✓ |
|                             | 41   | -               | - | ✓ | ✓  | ✓  | ✓  | ✓          | ✓     | ✓     | ✓    |      | ✓    | ✓            |   | ✓ |
|                             | 66   | ✓               | ✓ | ✓ | ✓  | ✓  | ✓  | ✓          | ✓     | ✓     | ✓    |      | ✓    | ✓            |   | ✓ |
| Conducted Spurious Emission | 2    | ✓               | ✓ | ✓ | ✓  | ✓  | ✓  | ✓          | ✓     | ✓     | ✓    |      |      | ✓            | ✓ | ✓ |
|                             | 7    | -               | - | ✓ | ✓  | ✓  | ✓  | ✓          | ✓     | ✓     | ✓    |      |      | ✓            | ✓ | ✓ |
|                             | 12   | ✓               | ✓ | ✓ | ✓  | -  | -  | ✓          | ✓     | ✓     | ✓    |      |      | ✓            | ✓ | ✓ |
|                             | 13   | -               | - | ✓ | ✓  | -  | -  | ✓          | ✓     | ✓     | ✓    |      |      | ✓            | ✓ | ✓ |
|                             | 26   | ✓               | ✓ | ✓ | ✓  | ✓  | -  | ✓          | ✓     | ✓     | ✓    |      |      | ✓            | ✓ | ✓ |
|                             | 41   | -               | - | ✓ | ✓  | ✓  | ✓  | ✓          | ✓     | ✓     | ✓    |      |      | ✓            | ✓ | ✓ |
|                             | 66   | ✓               | ✓ | ✓ | ✓  | ✓  | ✓  | ✓          | ✓     | ✓     | ✓    |      |      | ✓            | ✓ | ✓ |
| Frequency Stability         | 2    |                 |   |   | ✓  |    |    | ✓          |       |       |      |      | ✓    |              | ✓ |   |
|                             | 7    | -               | - | ✓ | ✓  |    |    | ✓          |       |       |      |      | ✓    |              | ✓ |   |
|                             | 12   |                 |   | ✓ | ✓  | -  | -  | ✓          |       |       |      |      | ✓    |              | ✓ |   |
|                             | 13   | -               | - | ✓ | ✓  | -  | -  | ✓          |       |       |      |      | ✓    |              | ✓ |   |
|                             | 26   |                 |   |   | ✓  |    | -  | ✓          |       |       |      |      | ✓    |              | ✓ |   |
|                             | 41   | -               | - | ✓ | ✓  |    |    | ✓          |       |       |      |      | ✓    |              | ✓ |   |
|                             | 66   |                 |   |   | ✓  |    |    | ✓          |       |       |      |      | ✓    |              | ✓ |   |

| Test Items                        | Band                                                                                                                                                                                                                                                                                                                                                                                                                                    | Bandwidth (MHz) |   |   |    |    |    | Modulation |       |       | RB # |      |      | Test Channel |   |   |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---|---|----|----|----|------------|-------|-------|------|------|------|--------------|---|---|
|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.4             | 3 | 5 | 10 | 15 | 20 | QPSK       | 16QAM | 64QAM | 1    | Half | Full | L            | M | H |
| <b>Radiated Spurious Emission</b> | <b>2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                | ✓               | ✓ | ✓ | ✓  | ✓  | ✓  | ✓          |       |       | ✓    |      |      | ✓            | ✓ | ✓ |
|                                   | <b>7</b>                                                                                                                                                                                                                                                                                                                                                                                                                                | -               | - | ✓ | ✓  | ✓  | ✓  | ✓          |       |       | ✓    |      |      | ✓            | ✓ | ✓ |
|                                   | <b>12</b>                                                                                                                                                                                                                                                                                                                                                                                                                               | ✓               | ✓ | ✓ | ✓  | -  | -  | ✓          |       |       | ✓    |      |      | ✓            | ✓ | ✓ |
|                                   | <b>13</b>                                                                                                                                                                                                                                                                                                                                                                                                                               | -               | - | ✓ | ✓  | -  | -  | ✓          |       |       | ✓    |      |      | ✓            | ✓ | ✓ |
|                                   | <b>26</b>                                                                                                                                                                                                                                                                                                                                                                                                                               | ✓               | ✓ | ✓ | ✓  | ✓  | -  | ✓          |       |       | ✓    |      |      | ✓            | ✓ | ✓ |
|                                   | <b>41</b>                                                                                                                                                                                                                                                                                                                                                                                                                               | -               | - | ✓ | ✓  | ✓  | ✓  | ✓          |       |       | ✓    |      |      | ✓            | ✓ | ✓ |
|                                   | <b>66</b>                                                                                                                                                                                                                                                                                                                                                                                                                               | ✓               | ✓ | ✓ | ✓  | ✓  | ✓  | ✓          |       |       | ✓    |      |      | ✓            | ✓ | ✓ |
| <b>Note</b>                       | <ol style="list-style-type: none"> <li>The mark "✓" means that this configuration is chosen for testing</li> <li>The mark "-" means that this bandwidth is not supported.</li> <li>The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.</li> </ol> |                 |   |   |    |    |    |            |       |       |      |      |      |              |   |   |



| Test Items                  | Band                                                                                                                                                                                                                                                                                                                                                                                                                                    | Bandwidth (MHz) |       |       |       |       |       |       |       |      |      | Modulation |       |       | RB # |      |      | Test Channel |   |   |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------|-------|-------|-------|-------|-------|-------|------|------|------------|-------|-------|------|------|------|--------------|---|---|
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                         | 10+20           | 20+10 | 15+15 | 15+20 | 20+15 | 20+20 | 15+10 | 10+15 | 5+20 | 20+5 | QPSK       | 16QAM | 64QAM | 1    | Half | Full | L            | M | H |
| Max. Output Power           | 7_CA                                                                                                                                                                                                                                                                                                                                                                                                                                    | ✓               | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | -     | -    | -    | ✓          | ✓     | ✓     | ✓    | ✓    | ✓    | ✓            | ✓ | ✓ |
|                             | 41_CA                                                                                                                                                                                                                                                                                                                                                                                                                                   | ✓               | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | ✓    | ✓    | ✓          | ✓     | ✓     | ✓    | ✓    | ✓    | ✓            | ✓ | ✓ |
| 26dB and 99% Bandwidth      | 7_CA                                                                                                                                                                                                                                                                                                                                                                                                                                    | ✓               | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | -     | -    | -    | ✓          | ✓     | ✓     |      |      | ✓    | ✓            | ✓ | ✓ |
|                             | 41_CA                                                                                                                                                                                                                                                                                                                                                                                                                                   | ✓               | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | ✓    | ✓    | ✓          | ✓     | ✓     |      |      | ✓    | ✓            | ✓ | ✓ |
| Conducted Band Edge         | 7_CA                                                                                                                                                                                                                                                                                                                                                                                                                                    | ✓               | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | -     | -    | -    | ✓          | ✓     | ✓     | ✓    |      | ✓    | ✓            |   | ✓ |
|                             | 41_CA                                                                                                                                                                                                                                                                                                                                                                                                                                   | ✓               | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | ✓    | ✓    | ✓          | ✓     | ✓     | ✓    |      | ✓    | ✓            |   | ✓ |
| Conducted Spurious Emission | 7_CA                                                                                                                                                                                                                                                                                                                                                                                                                                    | ✓               | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | -     | -    | -    | ✓          | ✓     | ✓     | ✓    |      |      | ✓            | ✓ | ✓ |
|                             | 41_CA                                                                                                                                                                                                                                                                                                                                                                                                                                   | ✓               | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | ✓    | ✓    | ✓          | ✓     | ✓     | ✓    |      |      | ✓            | ✓ | ✓ |
| Radiated Spurious Emission  | 7_CA                                                                                                                                                                                                                                                                                                                                                                                                                                    | ✓               | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | -     | -    | -    | ✓          |       |       | ✓    |      |      | ✓            | ✓ | ✓ |
|                             | 41_CA                                                                                                                                                                                                                                                                                                                                                                                                                                   | ✓               | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | ✓    | ✓    | ✓          |       |       | ✓    |      |      | ✓            | ✓ | ✓ |
| Note                        | <ol style="list-style-type: none"> <li>The mark "✓" means that this configuration is chosen for testing</li> <li>The mark "-" means that this bandwidth is not supported.</li> <li>The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.</li> </ol> |                 |       |       |       |       |       |       |       |      |      |            |       |       |      |      |      |              |   |   |

## 2.2 Connection Diagram of Test System



## 2.3 Support Unit used in test configuration and system

| Item | Equipment        | Trade Name | Model No. | FCC ID | Data Cable | Power Cord        |
|------|------------------|------------|-----------|--------|------------|-------------------|
| 1.   | System Simulator | R&S        | CMU 200   | N/A    | N/A        | Unshielded, 1.8 m |
| 2.   | System Simulator | Anritsu    | MT8820C   | N/A    | N/A        | Unshielded, 1.8 m |



## 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 attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

Example :

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.2 + 10 = 14.2 \text{ (dB)}\end{aligned}$$

## 2.5 Frequency List of Low/Middle/High Channels

| LTE Band 2 Channel and Frequency List |                        |        |        |         |
|---------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                              | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                    | Channel                | 18700  | 18900  | 19100   |
|                                       | Frequency              | 1860   | 1880   | 1900    |
| 15                                    | Channel                | 18675  | 18900  | 19125   |
|                                       | Frequency              | 1857.5 | 1880   | 1902.5  |
| 10                                    | Channel                | 18650  | 18900  | 19150   |
|                                       | Frequency              | 1855   | 1880   | 1905    |
| 5                                     | Channel                | 18625  | 18900  | 19175   |
|                                       | Frequency              | 1852.5 | 1880   | 1907.5  |
| 3                                     | Channel                | 18615  | 18900  | 19185   |
|                                       | Frequency              | 1851.5 | 1880   | 1908.5  |
| 1.4                                   | Channel                | 18607  | 18900  | 19193   |
|                                       | Frequency              | 1850.7 | 1880   | 1909.3  |

| LTE Band 7 Channel and Frequency List |                        |        |        |         |
|---------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                              | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                    | Channel                | 20850  | 21100  | 21350   |
|                                       | Frequency              | 2510   | 2535   | 2560    |
| 15                                    | Channel                | 20825  | 21100  | 21375   |
|                                       | Frequency              | 2507.5 | 2535   | 2562.5  |
| 10                                    | Channel                | 20800  | 21100  | 21400   |
|                                       | Frequency              | 2505   | 2535   | 2565    |
| 5                                     | Channel                | 20775  | 21100  | 21425   |
|                                       | Frequency              | 2502.5 | 2535   | 2567.5  |



| LTE Band 12 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10                                     | Channel                | 23060  | 23095  | 23130   |
|                                        | Frequency              | 704    | 707.5  | 711     |
| 5                                      | Channel                | 23035  | 23095  | 23155   |
|                                        | Frequency              | 701.5  | 707.5  | 713.5   |
| 3                                      | Channel                | 23025  | 23095  | 23165   |
|                                        | Frequency              | 700.5  | 707.5  | 714.5   |
| 1.4                                    | Channel                | 23017  | 23095  | 23173   |
|                                        | Frequency              | 699.7  | 707.5  | 715.3   |

| LTE Band 13 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10                                     | Channel                | -      | 23230  | -       |
|                                        | Frequency              | -      | 782    | -       |
| 5                                      | Channel                | 23205  | 23230  | 23255   |
|                                        | Frequency              | 779.5  | 782    | 784.5   |

| LTE Band 26 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 15                                     | Channel                | 26865  | 26915  | 26965   |
|                                        | Frequency              | 831.5  | 836.5  | 841.5   |
| 10                                     | Channel                | 26840  | 26915  | 26990   |
|                                        | Frequency              | 829    | 836.5  | 844     |
| 5                                      | Channel                | 26815  | 26915  | 27015   |
|                                        | Frequency              | 826.5  | 836.5  | 846.5   |
| 3                                      | Channel                | 26805  | 26915  | 27025   |
|                                        | Frequency              | 825.5  | 836.5  | 847.5   |
| 1.4                                    | Channel                | 26797  | 26915  | 27033   |
|                                        | Frequency              | 824.7  | 836.5  | 848.3   |



| LTE Band 41 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                     | Channel                | 39750  | 40620  | 41490   |
|                                        | Frequency              | 2506   | 2593   | 2680    |
| 15                                     | Channel                | 39725  | 40620  | 41515   |
|                                        | Frequency              | 2503.5 | 2593   | 2682.5  |
| 10                                     | Channel                | 39700  | 40620  | 41540   |
|                                        | Frequency              | 2501   | 2593   | 2685    |
| 5                                      | Channel                | 39675  | 40620  | 41565   |
|                                        | Frequency              | 2498.5 | 2593   | 2687.5  |

| LTE Band 41 Channel and Frequency List_IC |                        |        |        |         |
|-------------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                                  | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                        | Channel                | 39790  | 40620  | 41490   |
|                                           | Frequency              | 2510   | 2593   | 2680    |
| 15                                        | Channel                | 39765  | 40620  | 41515   |
|                                           | Frequency              | 2507.5 | 2593   | 2682.5  |
| 10                                        | Channel                | 39740  | 40620  | 41540   |
|                                           | Frequency              | 2505   | 2593   | 2685    |
| 5                                         | Channel                | 39715  | 40620  | 41565   |
|                                           | Frequency              | 2502.5 | 2593   | 2687.5  |



| LTE Band 66 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                     | Channel                | 132072 | 132322 | 132572  |
|                                        | Frequency              | 1720   | 1745   | 1770    |
| 15                                     | Channel                | 132047 | 132322 | 132597  |
|                                        | Frequency              | 1717.5 | 1745   | 1772.5  |
| 10                                     | Channel                | 132022 | 132322 | 132622  |
|                                        | Frequency              | 1715   | 1745   | 1775    |
| 5                                      | Channel                | 131997 | 132322 | 132647  |
|                                        | Frequency              | 1712.5 | 1745   | 1777.5  |
| 3                                      | Channel                | 131987 | 132322 | 132657  |
|                                        | Frequency              | 1711.5 | 1745   | 1778.5  |
| 1.4                                    | Channel                | 131979 | 132322 | 132665  |
|                                        | Frequency              | 1710.7 | 1745   | 1779.3  |



| LTE Band 7 Channel and Frequency List_CA |                        |           |        |        |         |
|------------------------------------------|------------------------|-----------|--------|--------|---------|
| BW [MHz]                                 | Channel/Frequency(MHz) |           | Lowest | Middle | Highest |
| 20 + 20                                  | PCC                    | Channel   | 20850  | 21001  | 21152   |
|                                          |                        | Frequency | 2510.0 | 2525.1 | 2540.2  |
|                                          | SCC                    | Channel   | 21048  | 21199  | 21350   |
|                                          |                        | Frequency | 2529.8 | 2544.9 | 2560.0  |
| 20 + 15                                  | PCC                    | Channel   | 20850  | 21026  | 21201   |
|                                          |                        | Frequency | 2510.0 | 2527.6 | 2545.1  |
|                                          | SCC                    | Channel   | 21021  | 21197  | 21372   |
|                                          |                        | Frequency | 2527.1 | 2544.7 | 2562.2  |
| 15 + 20                                  | PCC                    | Channel   | 20828  | 21003  | 21179   |
|                                          |                        | Frequency | 2507.8 | 2525.3 | 2542.9  |
|                                          | SCC                    | Channel   | 20999  | 21174  | 21350   |
|                                          |                        | Frequency | 2524.9 | 2542.4 | 2560.0  |
| 20 + 10                                  | PCC                    | Channel   | 20850  | 21051  | 21251   |
|                                          |                        | Frequency | 2510.0 | 2530.1 | 2550.1  |
|                                          | SCC                    | Channel   | 20994  | 21195  | 21395   |
|                                          |                        | Frequency | 2524.4 | 2544.5 | 2564.5  |
| 10 + 20                                  | PCC                    | Channel   | 20805  | 21006  | 21206   |
|                                          |                        | Frequency | 2505.5 | 2525.6 | 2545.6  |
|                                          | SCC                    | Channel   | 20949  | 21150  | 21350   |
|                                          |                        | Frequency | 2519.9 | 2540.0 | 2560.0  |
| 15 + 15                                  | PCC                    | Channel   | 20825  | 21025  | 21225   |
|                                          |                        | Frequency | 2507.5 | 2527.5 | 2547.5  |
|                                          | SCC                    | Channel   | 20975  | 21175  | 21375   |
|                                          |                        | Frequency | 2522.5 | 2542.5 | 2562.5  |
| 15 + 10                                  | PCC                    | Channel   | 20825  | 21051  | 21277   |
|                                          |                        | Frequency | 2507.5 | 2530.1 | 2552.7  |
|                                          | SCC                    | Channel   | 20945  | 21171  | 21397   |
|                                          |                        | Frequency | 2519.5 | 2542.1 | 2564.7  |



| LTE Band 41 Channel and Frequency List_CA |                        |           |        |        |         |
|-------------------------------------------|------------------------|-----------|--------|--------|---------|
| BW [MHz]                                  | Channel/Frequency(MHz) |           | Lowest | Middle | Highest |
| 20 + 20                                   | PCC                    | Channel   | 39750  | 40521  | 41292   |
|                                           |                        | Frequency | 2506   | 2583.1 | 2660.2  |
|                                           | SCC                    | Channel   | 39948  | 40719  | 41490   |
|                                           |                        | Frequency | 2525.8 | 2602.9 | 2680    |
| 20 + 15                                   | PCC                    | Channel   | 39750  | 40546  | 41341   |
|                                           |                        | Frequency | 2506   | 2585.6 | 2665.1  |
|                                           | SCC                    | Channel   | 39921  | 40717  | 41512   |
|                                           |                        | Frequency | 2523.1 | 2602.7 | 2682.2  |
| 15 + 20                                   | PCC                    | Channel   | 39728  | 40523  | 41319   |
|                                           |                        | Frequency | 2503.8 | 2583.3 | 2662.9  |
|                                           | SCC                    | Channel   | 39899  | 40694  | 41490   |
|                                           |                        | Frequency | 2520.9 | 2600.4 | 2680    |
| 20 + 10                                   | PCC                    | Channel   | 39750  | 40571  | 41391   |
|                                           |                        | Frequency | 2506   | 2588.1 | 2670.1  |
|                                           | SCC                    | Channel   | 39894  | 40715  | 41535   |
|                                           |                        | Frequency | 2520.4 | 2602.5 | 2684.5  |
| 10 + 20                                   | PCC                    | Channel   | 39705  | 40526  | 41346   |
|                                           |                        | Frequency | 2501.5 | 2583.6 | 2665.6  |
|                                           | SCC                    | Channel   | 39849  | 40670  | 41490   |
|                                           |                        | Frequency | 2515.9 | 2598   | 2680    |
| 15+ 15                                    | PCC                    | Channel   | 39725  | 40545  | 41365   |
|                                           |                        | Frequency | 2503.5 | 2585.5 | 2667.5  |
|                                           | SCC                    | Channel   | 39875  | 40695  | 41515   |
|                                           |                        | Frequency | 2518.5 | 2600.5 | 2682.5  |
| 5 + 20                                    | PCC                    | Channel   | 39683  | 40528  | 41373   |
|                                           |                        | Frequency | 2499.3 | 2583.8 | 2668.3  |
|                                           | SCC                    | Channel   | 39800  | 40645  | 41490   |
|                                           |                        | Frequency | 2511   | 2595.5 | 2680    |

| LTE Band 41 Channel and Frequency List_CA |                        |           |        |        |         |
|-------------------------------------------|------------------------|-----------|--------|--------|---------|
| BW [MHz]                                  | Channel/Frequency(MHz) |           | Lowest | Middle | Highest |
| 20 + 5                                    | PCC                    | Channel   | 39750  | 40595  | 41440   |
|                                           |                        | Frequency | 2506   | 2590.5 | 2675    |
|                                           | SCC                    | Channel   | 39867  | 40712  | 41557   |
|                                           |                        | Frequency | 2517.7 | 2602.2 | 2686.7  |
| 15+10                                     | PCC                    | Channel   | 39725  | 40571  | 41417   |
|                                           |                        | Frequency | 2503.5 | 2588.1 | 2672.7  |
|                                           | SCC                    | Channel   | 39845  | 40691  | 41537   |
|                                           |                        | Frequency | 2515.5 | 2600.1 | 2684.7  |
| 10+15                                     | PCC                    | Channel   | 39703  | 40549  | 41395   |
|                                           |                        | Frequency | 2501.3 | 2585.9 | 2670.5  |
|                                           | SCC                    | Channel   | 39823  | 40669  | 41515   |
|                                           |                        | Frequency | 2513.3 | 2597.9 | 2682.5  |

**For IC**

| LTE Band 41 Channel and Frequency List_CA_IC |                        |           |        |        |         |
|----------------------------------------------|------------------------|-----------|--------|--------|---------|
| BW [MHz]                                     | Channel/Frequency(MHz) |           | Lowest | Middle | Highest |
| 20 + 20                                      | PCC                    | Channel   | 39790  | 40521  | 41292   |
|                                              |                        | Frequency | 2510   | 2583.1 | 2660.2  |
|                                              | SCC                    | Channel   | 39988  | 40719  | 41490   |
|                                              |                        | Frequency | 2529.8 | 2602.9 | 2680    |
| 20 + 15                                      | PCC                    | Channel   | 39790  | 40546  | 41341   |
|                                              |                        | Frequency | 2510   | 2585.6 | 2665.1  |
|                                              | SCC                    | Channel   | 39961  | 40717  | 41512   |
|                                              |                        | Frequency | 2527.1 | 2602.7 | 2682.2  |
| 15 + 20                                      | PCC                    | Channel   | 39765  | 40523  | 41319   |
|                                              |                        | Frequency | 2507.5 | 2583.3 | 2662.9  |
|                                              | SCC                    | Channel   | 39936  | 40694  | 41490   |
|                                              |                        | Frequency | 2524.6 | 2600.4 | 2680    |



| LTE Band 41 Channel and Frequency List_CA_IC |                        |           |        |        |         |
|----------------------------------------------|------------------------|-----------|--------|--------|---------|
| BW [MHz]                                     | Channel/Frequency(MHz) |           | Lowest | Middle | Highest |
| 20 + 10                                      | PCC                    | Channel   | 39790  | 40571  | 41391   |
|                                              |                        | Frequency | 2510   | 2588.1 | 2670.1  |
|                                              | SCC                    | Channel   | 39934  | 40715  | 41535   |
|                                              |                        | Frequency | 2524.4 | 2602.5 | 2684.5  |
| 10 + 20                                      | PCC                    | Channel   | 39740  | 40526  | 41346   |
|                                              |                        | Frequency | 2505   | 2583.6 | 2665.6  |
|                                              | SCC                    | Channel   | 39884  | 40670  | 41490   |
|                                              |                        | Frequency | 2519.4 | 2598   | 2680    |
| 15 + 15                                      | PCC                    | Channel   | 39765  | 40545  | 41365   |
|                                              |                        | Frequency | 2507.5 | 2585.5 | 2667.5  |
|                                              | SCC                    | Channel   | 39915  | 40695  | 41515   |
|                                              |                        | Frequency | 2522.5 | 2600.5 | 2682.5  |
| 5 + 20                                       | PCC                    | Channel   | 39715  | 40528  | 41373   |
|                                              |                        | Frequency | 2502.5 | 2583.8 | 2668.3  |
|                                              | SCC                    | Channel   | 39832  | 40645  | 41490   |
|                                              |                        | Frequency | 2514.2 | 2595.5 | 2680    |
| 20 + 5                                       | PCC                    | Channel   | 39790  | 40595  | 41440   |
|                                              |                        | Frequency | 2510   | 2590.5 | 2675    |
|                                              | SCC                    | Channel   | 39907  | 40712  | 41557   |
|                                              |                        | Frequency | 2521.7 | 2602.2 | 2686.7  |
| 15+10                                        | PCC                    | Channel   | 39765  | 40571  | 41417   |
|                                              |                        | Frequency | 2507.5 | 2588.1 | 2672.7  |
|                                              | SCC                    | Channel   | 39885  | 40691  | 41537   |
|                                              |                        | Frequency | 2519.5 | 2600.1 | 2684.7  |
| 10+15                                        | PCC                    | Channel   | 39740  | 40549  | 41395   |
|                                              |                        | Frequency | 2505   | 2585.9 | 2670.5  |
|                                              | SCC                    | Channel   | 39860  | 40669  | 41515   |
|                                              |                        | Frequency | 2517   | 2597.9 | 2682.5  |

### 3 Conducted Test Items

#### 3.1 Measuring Instruments

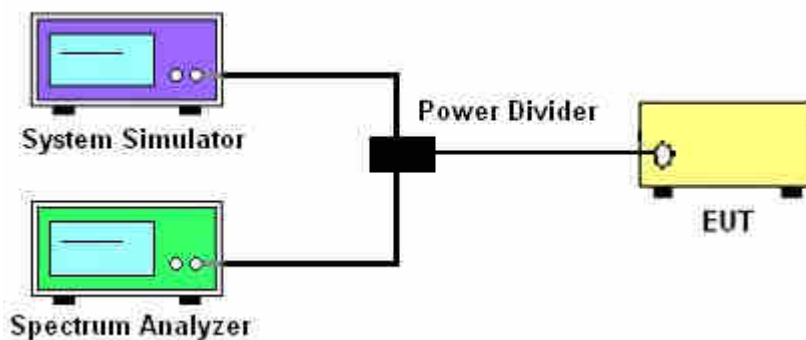
See list of measuring instruments of this test report.

#### 3.2 Test Setup

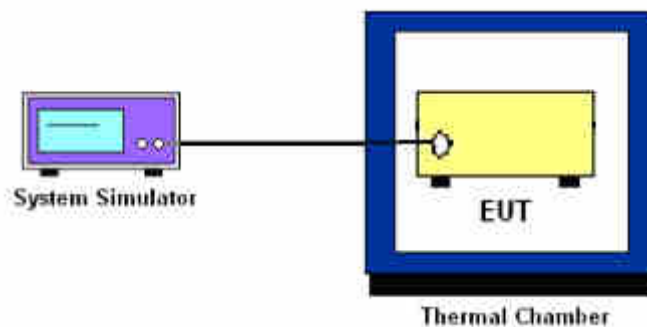
##### 3.2.1 Conducted Output Power



##### 3.2.2 Peak-to-Average Ratio, Occupied Bandwidth ,Conducted Band-Edge and Conducted Spurious Emission



##### 3.2.3 Frequency Stability



### 3.3 Test Result of Conducted Test

Please refer to Appendix A.



## **3.4 Conducted Output Power**

### **3.4.1 Description of the Conducted Output Power Measurement**

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

### **3.4.2 Test Procedures**

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

## 3.5 Peak-to-Average Ratio

### 3.5.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. 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.

### 3.5.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 5.7.1 and ANSI C63.26 Section 5.2.3.4.
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.

## 3.6 Occupied Bandwidth

### 3.6.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is 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 transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

### 3.6.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 4.2 and ANSI C63.26 Section 5.4.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.  
(this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

### 3.7 Conducted Band Edge

#### 3.7.1 Description of Conducted Band Edge Measurement

24.238 (a) and RSS-133

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is  $43 + 10\log_{10}(P[\text{Watts}])$  dB below the transmitter power  $P(\text{Watts})$  in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53 (c) and RSS-130

For operations in the 776-788 MHz band, the FCC limit is  $43 + 10\log_{10}(P[\text{Watts}])$  dB below the transmitter power  $P(\text{Watts})$  in a 100 kHz bandwidth. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power,  $P$  (dBW), by at least  $65 + 10 \log_{10} p(\text{watts})$ , dB, for mobile and portable equipment.

27.53 (g ) and RSS-130

For operations in the 698 -746 MHz band, the FCC limit is  $43 + 10\log_{10}(P[\text{Watts}])$  dB below the transmitter power  $P(\text{Watts})$  in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

**27.53(m)(4)**

For mobile digital stations, the attenuation 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 as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

**RSS-199 4.5(b):**

For mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:

- i)  $40 + 10 \log_{10} p$  from the channel edges to 5 MHz away,
  - ii)  $43 + 10 \log_{10} p$  between 5 MHz and X MHz from the channel edges, and
  - iii)  $55 + 10 \log_{10} p$  at X MHz and beyond from the channel edges.
  - iv) in addition, the attenuation shall be not be less than  $43 + 10 \log_{10} p$  on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log_{10} p$  at or below 2490.5 MHz.
- where p in (a) and (b) is the transmitter power measured in watts and X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

### 3.7.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 6.0 and ANSI C63.26 Section 5.7.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW  $\geq$  1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.

Example:

The limit line is derived from  $43 + 10\log(P)$  dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)} = -13\text{dBm}.$$

9. For LTE Band 7, 41, the other 40 dB, and 55 dB have additionally applied same calculation above.

### 3.8 Conducted Spurious Emission

#### 3.8.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

For Band 7, 41:

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least  $55 + 10 \log (P)$  dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10<sup>th</sup> harmonic.

#### 3.8.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 6.0 and ANSI C63.26 Section 5.7.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.  
The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from  $43 + 10\log(P)$ dB below the transmitter power P(Watts)  
 $= P(W) - [43 + 10\log(P)]$  (dB)  
 $= [30 + 10\log(P)]$  (dBm) -  $[43 + 10\log(P)]$  (dB)  
 $= -13$ dBm.
11. For Band 7, 41  
The limit line is derived from  $55 + 10\log(P)$ dB below the transmitter power P(Watts)  
 $= P(W) - [55 + 10\log(P)]$  (dB)  
 $= [30 + 10\log(P)]$  (dBm) -  $[55 + 10\log(P)]$  (dB)  
 $= -25$ dBm.

## 3.9 Frequency Stability

### 3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within  $\pm 0.00025\%$  ( $\pm 2.5\text{ppm}$ ) of the center frequency.

### 3.9.2 Test Procedures for Temperature Variation

1. The testing follows FCC KDB 971168 v02r02 Section 9.0 and ANSI C63.26 Section 5.6.
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to  $-30^{\circ}\text{C}$  and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in  $10^{\circ}\text{C}$  step up to  $50^{\circ}\text{C}$ . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

### 3.9.3 Test Procedures for Voltage Variation

1. The testing follows FCC KDB 971168 v02r02 Section 9.0 and ANSI C63.26 Section 5.6..
2. The EUT was placed in a temperature chamber at  $25\pm 5^{\circ}\text{C}$  and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.

### 3.9.4 Test Procedures for Frequency Stability

1. The testing follows the Section 6.11 of RSS-GEN.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The EUT was operated at the lowest and highest channel.
4. For RSS-133 the frequency range shall be within the frequency range.
5. For RSS 130,197,199, the frequency at these points shall be recorded as fL and fH respectively. The frequency stability by showing that fL minus the frequency offset and fH plus the frequency offset shall be within the frequency range that the equipment is designed to operate.

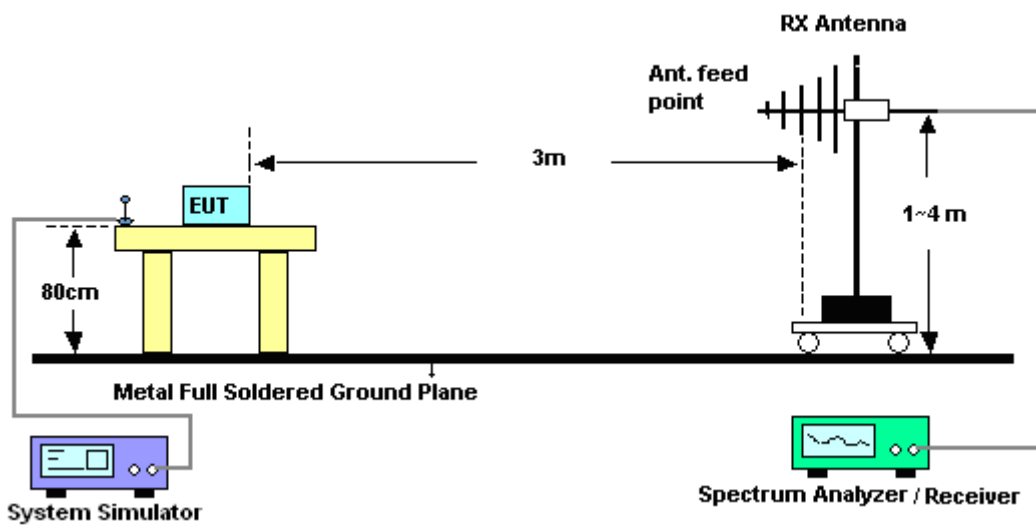
## 4 Radiated Test Items

### 4.1 Measuring Instruments

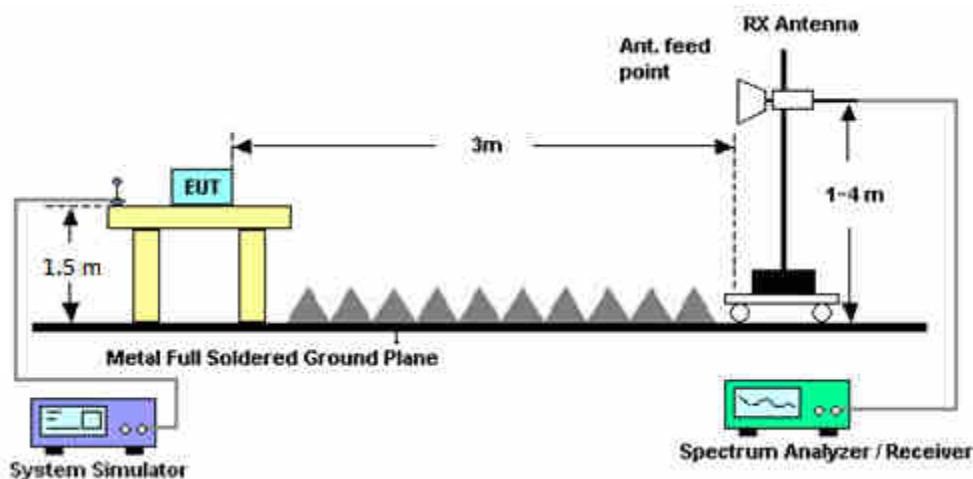
See list of measuring instruments of this test report.

### 4.2 Test Setup

#### 4.2.1 For radiated test from 30MHz to 1GHz



#### 4.2.2 For radiated test above 1GHz



### 4.3 Test Result of Radiated Test

Please refer to Appendix B.



## **4.4 Radiated Spurious Emission**

### **4.4.1 Description of Radiated Spurious Emission**

The radiated spurious emission was measured by substitution method according to ANSI / TIA / EIA-603-E and ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

For Band 7, 41

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $55 + 10 \log (P)$  dB.

For LTE Band 12,13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to  $-70$  dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and  $-80$  dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

#### 4.4.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 5.8 and ANSI / TIA-603-E Section 2.2.12 and ANSI C63.26 Section 5.5.3.
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10.  $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11.  $ERP \text{ (dBm)} = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.  
The limit line is derived from  $43 + 10\log(P)\text{dB}$  below the transmitter power  $P(\text{Watts})$   
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$   
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$   
 $= -13\text{dBm}.$
13. For Band 7, 41:  
The limit line is derived from  $55 + 10\log(P)\text{dB}$  below the transmitter power  $P(\text{Watts})$   
 $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$   
 $ERP \text{ (dBm)} = EIRP - 2.15$



## 5 List of Measuring Equipment

| Instrument                | Manufacturer    | Model No.                                           | Serial No.      | Characteristics                     | Calibration Date | Test Date                        | Due Date      | Remark                   |
|---------------------------|-----------------|-----------------------------------------------------|-----------------|-------------------------------------|------------------|----------------------------------|---------------|--------------------------|
| LTE Base Station          | Anritsu         | MT8820C                                             | 620143282<br>1  | GSM/GPRS<br>/WCDMA/LTE              | Oct. 11, 2016    | Sep. 19, 2017 ~<br>Oct. 04, 2017 | Oct. 10, 2017 | Conducted<br>(TH05-HY)   |
| LTE Base Station          | Anritsu         | MT8820C                                             | 620143282<br>1  | GSM/GPRS<br>/WCDMA/LTE              | Oct. 13, 2017    | Oct. 13, 2017 ~<br>Oct. 31, 2017 | Oct. 12, 2018 | Conducted<br>(TH05-HY)   |
| Spectrum Analyzer         | Rohde & Schwarz | FSV40                                               | 101397          | 10Hz~40GHz                          | Nov. 04, 2016    | Sep. 19, 2017 ~<br>Oct. 31, 2017 | Nov. 03, 2017 | Conducted<br>(TH05-HY)   |
| Temperature Chamber       | ESPEC           | SH-641                                              | 92013720        | -30℃~70℃                            | Aug. 28, 2017    | Sep. 19, 2017 ~<br>Oct. 31, 2017 | Aug. 27, 2018 | Conducted<br>(TH05-HY)   |
| Programmable Power Supply | GW Instek       | PSS-2005                                            | EL890089        | 1V~20V<br>0.5A~5A                   | Jan. 12, 2017    | Sep. 19, 2017 ~<br>Oct. 31, 2017 | Jan. 11, 2018 | Conducted<br>(TH05-HY)   |
| Coupler                   | Warison         | 1-18GHz<br>20dB<br>25WSMA<br>Directional<br>Coupler | #B              | 1G~18GHz                            | Feb. 20, 2017    | Sep. 19, 2017 ~<br>Oct. 31, 2017 | Feb. 19, 2018 | Conducted<br>(TH05-HY)   |
| Bilog Antenna             | Schaffner       | CBL6111C                                            | 2726            | 30MHz ~ 1GHz                        | N/A              | Sep. 23, 2017 ~<br>Oct. 31, 2017 | N/A           | Radiation<br>(03CH07-HY) |
| Double Ridge Horn Antenna | ESCO            | 3117                                                | 00075962        | 1GHz ~ 18GHz                        | Aug. 23, 2017    | Sep. 23, 2017 ~<br>Oct. 31, 2017 | Aug. 22, 2018 | Radiation<br>(03CH07-HY) |
| Preamplifier              | MITEQ           | AMF-7D-0010<br>1800-30-10P                          | 1590075         | 1GHz ~ 18GHz                        | Apr. 25, 2017    | Sep. 23, 2017 ~<br>Oct. 31, 2017 | Apr. 24, 2018 | Radiation<br>(03CH07-HY) |
| Preamplifier              | COM-POWER       | PA-103A                                             | 161241          | 10MHz-1GHz                          | Mar. 14, 2017    | Sep. 23, 2017 ~<br>Oct. 31, 2017 | Mar. 13, 2018 | Radiation<br>(03CH07-HY) |
| EMI Test Receiver         | Agilent         | N9038A<br>(MXE)                                     | MY532900<br>53  | 20Hz to<br>26.5GHz                  | Jan. 12, 2017    | Sep. 23, 2017 ~<br>Oct. 31, 2017 | Jan. 11, 2018 | Radiation<br>(03CH07-HY) |
| Horn Antenna              | ESCO            | 3117                                                | 00066584        | 1GHz~18GHz                          | Sep. 06, 2017    | Sep. 23, 2017 ~<br>Oct. 31, 2017 | Sep. 05, 2018 | Radiation<br>(03CH07-HY) |
| Antenna Mast              | Max-Full        | MFA520BS                                            | N/A             | 1m~4m                               | N/A              | Sep. 23, 2017 ~<br>Oct. 31, 2017 | N/A           | Radiation<br>(03CH07-HY) |
| Turn Table                | ChainTek        | Chaintek<br>3000                                    | N/A             | 0~360 Degree                        | N/A              | Sep. 23, 2017 ~<br>Oct. 31, 2017 | N/A           | Radiation<br>(03CH07-HY) |
| SHF-EHF Horn Antenna      | SCHWARZBE<br>CK | BBHA 9170                                           | BBHA9170<br>584 | 18GHz- 40GHz                        | Nov. 08, 2016    | Sep. 23, 2017 ~<br>Oct. 31, 2017 | Nov. 07, 2017 | Radiation<br>(03CH07-HY) |
| Amplifier                 | MITEQ           | TTA1840-35-<br>HG                                   | 1871923         | 18GHz~40GHz,<br>VSWR : 2.5:1<br>max | Jul. 18, 2017    | Sep. 23, 2017 ~<br>Oct. 31, 2017 | Jul. 17, 2018 | Radiation<br>(03CH07-HY) |
| Signal Generator          | Rohde & Schwarz | SMF100A                                             | 101107          | 100kHz~40GHz                        | May 22, 2017     | Sep. 23, 2017 ~<br>Oct. 31, 2017 | May 21, 2018  | Radiation<br>(03CH07-HY) |

## 6 Uncertainty of Evaluation

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

|                                                                          |      |
|--------------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_c(y)$ ) | 3.05 |
|--------------------------------------------------------------------------|------|

### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

|                                                                          |      |
|--------------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_c(y)$ ) | 3.44 |
|--------------------------------------------------------------------------|------|

### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

|                                                                          |      |
|--------------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_c(y)$ ) | 3.95 |
|--------------------------------------------------------------------------|------|



## Appendix A. Test Results of Conducted Test

### Conducted Output Power(Average power)

| LTE Band 2 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 20                                     | 1       | 0         | QPSK   | 22.55  | 22.24  | 22.26   |
| 20                                     | 1       | 49        |        | 22.07  | 21.90  | 22.09   |
| 20                                     | 1       | 99        |        | 22.08  | 21.91  | 22.06   |
| 20                                     | 50      | 0         |        | 21.36  | 21.08  | 21.27   |
| 20                                     | 50      | 24        |        | 21.18  | 21.00  | 21.23   |
| 20                                     | 50      | 50        |        | 21.12  | 20.86  | 21.17   |
| 20                                     | 100     | 0         |        | 21.19  | 21.03  | 21.23   |
| 20                                     | 1       | 0         | 16-QAM | 21.89  | 21.64  | 21.57   |
| 20                                     | 1       | 49        |        | 21.44  | 21.23  | 21.42   |
| 20                                     | 1       | 99        |        | 21.48  | 21.24  | 21.38   |
| 20                                     | 50      | 0         |        | 20.39  | 20.11  | 20.29   |
| 20                                     | 50      | 24        |        | 20.18  | 20.03  | 20.21   |
| 20                                     | 50      | 50        |        | 20.11  | 19.91  | 20.19   |
| 20                                     | 100     | 0         |        | 20.19  | 20.02  | 20.23   |
| 20                                     | 1       | 0         | 64-QAM | 20.71  | 20.39  | 20.44   |
| 20                                     | 1       | 49        |        | 20.26  | 20.09  | 20.28   |
| 20                                     | 1       | 99        |        | 20.27  | 20.09  | 20.29   |
| 20                                     | 50      | 0         |        | 19.38  | 19.09  | 19.29   |
| 20                                     | 50      | 24        |        | 19.20  | 19.03  | 19.24   |
| 20                                     | 50      | 50        |        | 19.13  | 18.89  | 19.16   |
| 20                                     | 100     | 0         |        | 19.23  | 19.02  | 19.26   |
| 15                                     | 1       | 0         | QPSK   | 22.35  | 22.08  | 22.26   |
| 15                                     | 1       | 37        |        | 22.09  | 21.91  | 22.12   |
| 15                                     | 1       | 74        |        | 22.06  | 21.81  | 22.09   |
| 15                                     | 36      | 0         |        | 21.31  | 21.03  | 21.25   |
| 15                                     | 36      | 20        |        | 21.17  | 21.01  | 21.22   |
| 15                                     | 36      | 39        |        | 21.12  | 20.85  | 21.19   |
| 15                                     | 75      | 0         |        | 21.18  | 21.00  | 21.20   |
| 15                                     | 1       | 0         | 16-QAM | 21.67  | 21.41  | 21.56   |
| 15                                     | 1       | 37        |        | 21.43  | 21.25  | 21.43   |
| 15                                     | 1       | 74        |        | 21.38  | 21.12  | 21.44   |
| 15                                     | 36      | 0         |        | 20.32  | 20.08  | 20.26   |
| 15                                     | 36      | 20        |        | 20.19  | 20.03  | 20.21   |
| 15                                     | 36      | 39        |        | 20.10  | 19.88  | 20.18   |
| 15                                     | 75      | 0         |        | 20.17  | 19.98  | 20.20   |
| 15                                     | 1       | 0         | 64-QAM | 20.57  | 20.27  | 20.44   |
| 15                                     | 1       | 37        |        | 20.29  | 20.08  | 20.28   |
| 15                                     | 1       | 74        |        | 20.27  | 20.01  | 20.27   |
| 15                                     | 36      | 0         |        | 19.35  | 19.08  | 19.28   |
| 15                                     | 36      | 20        |        | 19.20  | 19.04  | 19.24   |
| 15                                     | 36      | 39        |        | 19.14  | 18.90  | 19.18   |
| 15                                     | 75      | 0         |        | 19.16  | 19.01  | 19.19   |



| LTE Band 2 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                     | 1       | 0         | QPSK   | 22.42  | 22.21  | 22.21   |
| 10                                     | 1       | 25        |        | 22.11  | 21.91  | 22.12   |
| 10                                     | 1       | 49        |        | 22.18  | 21.99  | 22.10   |
| 10                                     | 25      | 0         |        | 21.21  | 21.02  | 21.23   |
| 10                                     | 25      | 12        |        | 21.17  | 21.01  | 21.20   |
| 10                                     | 25      | 25        |        | 21.03  | 20.88  | 21.18   |
| 10                                     | 50      | 0         |        | 21.19  | 21.02  | 21.21   |
| 10                                     | 1       | 0         | 16-QAM | 21.72  | 21.58  | 21.51   |
| 10                                     | 1       | 25        |        | 21.45  | 21.28  | 21.48   |
| 10                                     | 1       | 49        |        | 21.50  | 21.36  | 21.38   |
| 10                                     | 25      | 0         |        | 20.22  | 20.03  | 20.22   |
| 10                                     | 25      | 12        |        | 20.18  | 20.03  | 20.22   |
| 10                                     | 25      | 25        |        | 20.05  | 19.90  | 20.19   |
| 10                                     | 50      | 0         |        | 20.19  | 20.02  | 20.24   |
| 10                                     | 1       | 0         | 64-QAM | 20.59  | 20.42  | 20.39   |
| 10                                     | 1       | 25        |        | 20.31  | 20.11  | 20.32   |
| 10                                     | 1       | 49        |        | 20.33  | 20.16  | 20.27   |
| 10                                     | 25      | 0         |        | 19.23  | 19.05  | 19.24   |
| 10                                     | 25      | 12        |        | 19.19  | 19.04  | 19.24   |
| 10                                     | 25      | 25        |        | 19.03  | 18.91  | 19.18   |
| 10                                     | 50      | 0         |        | 19.19  | 19.00  | 19.21   |
| 5                                      | 1       | 0         | QPSK   | 22.15  | 21.96  | 22.18   |
| 5                                      | 1       | 12        |        | 22.08  | 21.89  | 22.08   |
| 5                                      | 1       | 24        |        | 22.09  | 21.79  | 22.10   |
| 5                                      | 12      | 0         |        | 21.14  | 21.00  | 21.20   |
| 5                                      | 12      | 7         |        | 21.15  | 21.00  | 21.22   |
| 5                                      | 12      | 13        |        | 21.09  | 20.94  | 21.15   |
| 5                                      | 25      | 0         |        | 21.13  | 20.98  | 21.17   |
| 5                                      | 1       | 0         | 16-QAM | 21.52  | 21.31  | 21.51   |
| 5                                      | 1       | 12        |        | 21.43  | 21.26  | 21.49   |
| 5                                      | 1       | 24        |        | 21.44  | 21.16  | 21.40   |
| 5                                      | 12      | 0         |        | 20.19  | 20.02  | 20.23   |
| 5                                      | 12      | 7         |        | 20.16  | 20.01  | 20.24   |
| 5                                      | 12      | 13        |        | 20.14  | 20.00  | 20.19   |
| 5                                      | 25      | 0         |        | 20.15  | 20.01  | 20.21   |
| 5                                      | 1       | 0         | 64-QAM | 20.36  | 20.19  | 20.27   |
| 5                                      | 1       | 12        |        | 20.29  | 20.15  | 20.30   |
| 5                                      | 1       | 24        |        | 20.25  | 19.97  | 20.29   |
| 5                                      | 12      | 0         |        | 19.21  | 19.05  | 19.25   |
| 5                                      | 12      | 7         |        | 19.21  | 19.06  | 19.27   |
| 5                                      | 12      | 13        |        | 19.18  | 19.02  | 19.25   |
| 5                                      | 25      | 0         |        | 19.14  | 19.02  | 19.18   |



| LTE Band 2 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 3                                      | 1       | 0         | QPSK   | 22.07  | 21.89  | 22.08   |
| 3                                      | 1       | 8         |        | 22.07  | 21.88  | 22.07   |
| 3                                      | 1       | 14        |        | 22.04  | 21.85  | 22.07   |
| 3                                      | 8       | 0         |        | 21.14  | 20.97  | 21.14   |
| 3                                      | 8       | 4         |        | 21.11  | 20.95  | 21.19   |
| 3                                      | 8       | 7         |        | 21.09  | 20.93  | 21.13   |
| 3                                      | 15      | 0         |        | 21.13  | 20.95  | 21.15   |
| 3                                      | 1       | 0         | 16-QAM | 21.40  | 21.28  | 21.49   |
| 3                                      | 1       | 8         |        | 21.42  | 21.25  | 21.44   |
| 3                                      | 1       | 14        |        | 21.37  | 21.27  | 21.38   |
| 3                                      | 8       | 0         |        | 20.19  | 20.02  | 20.23   |
| 3                                      | 8       | 4         |        | 20.20  | 20.04  | 20.25   |
| 3                                      | 8       | 7         |        | 20.17  | 19.98  | 20.20   |
| 3                                      | 15      | 0         |        | 20.12  | 19.98  | 20.20   |
| 3                                      | 1       | 0         | 64-QAM | 20.27  | 20.15  | 20.24   |
| 3                                      | 1       | 8         |        | 20.25  | 20.08  | 20.25   |
| 3                                      | 1       | 14        |        | 20.25  | 20.05  | 20.23   |
| 3                                      | 8       | 0         |        | 19.16  | 18.98  | 19.21   |
| 3                                      | 8       | 4         |        | 19.18  | 19.02  | 19.22   |
| 3                                      | 8       | 7         |        | 19.14  | 18.99  | 19.19   |
| 3                                      | 15      | 0         |        | 19.12  | 18.96  | 19.18   |
| 1.4                                    | 1       | 0         | QPSK   | 22.03  | 21.87  | 22.03   |
| 1.4                                    | 1       | 3         |        | 22.11  | 21.92  | 22.11   |
| 1.4                                    | 1       | 5         |        | 22.01  | 21.84  | 22.01   |
| 1.4                                    | 3       | 0         |        | 22.06  | 21.89  | 22.08   |
| 1.4                                    | 3       | 1         |        | 22.11  | 21.93  | 22.12   |
| 1.4                                    | 3       | 3         |        | 22.06  | 21.88  | 22.09   |
| 1.4                                    | 6       | 0         |        | 21.06  | 20.89  | 21.10   |
| 1.4                                    | 1       | 0         | 16-QAM | 21.35  | 21.15  | 21.38   |
| 1.4                                    | 1       | 3         |        | 21.43  | 21.25  | 21.43   |
| 1.4                                    | 1       | 5         |        | 21.33  | 21.16  | 21.32   |
| 1.4                                    | 3       | 0         |        | 21.11  | 20.95  | 21.12   |
| 1.4                                    | 3       | 1         |        | 21.13  | 20.95  | 21.14   |
| 1.4                                    | 3       | 3         |        | 21.09  | 20.90  | 21.07   |
| 1.4                                    | 6       | 0         |        | 20.12  | 19.97  | 20.18   |
| 1.4                                    | 1       | 0         | 64-QAM | 20.18  | 19.98  | 20.18   |
| 1.4                                    | 1       | 3         |        | 20.23  | 20.06  | 20.27   |
| 1.4                                    | 1       | 5         |        | 20.14  | 19.99  | 20.20   |
| 1.4                                    | 3       | 0         |        | 20.20  | 20.02  | 20.24   |
| 1.4                                    | 3       | 1         |        | 20.25  | 20.06  | 20.29   |
| 1.4                                    | 3       | 3         |        | 20.20  | 20.02  | 20.22   |
| 1.4                                    | 6       | 0         |        | 19.06  | 18.92  | 19.13   |



| LTE Band 7 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 20                                     | 1       | 0         | QPSK   | 21.65  | 21.78  | 21.82   |
| 20                                     | 1       | 49        |        | 21.59  | 21.65  | 21.74   |
| 20                                     | 1       | 99        |        | 21.58  | 21.65  | 21.81   |
| 20                                     | 50      | 0         |        | 20.60  | 20.81  | 20.79   |
| 20                                     | 50      | 24        |        | 20.69  | 20.72  | 20.83   |
| 20                                     | 50      | 50        |        | 20.66  | 20.72  | 20.82   |
| 20                                     | 100     | 0         |        | 20.70  | 20.74  | 20.80   |
| 20                                     | 1       | 0         | 16-QAM | 20.96  | 21.09  | 21.10   |
| 20                                     | 1       | 49        |        | 20.91  | 20.95  | 21.05   |
| 20                                     | 1       | 99        |        | 20.90  | 20.93  | 21.12   |
| 20                                     | 50      | 0         |        | 19.66  | 19.85  | 19.81   |
| 20                                     | 50      | 24        |        | 19.72  | 19.76  | 19.84   |
| 20                                     | 50      | 50        |        | 19.69  | 19.73  | 19.84   |
| 20                                     | 100     | 0         |        | 19.70  | 19.73  | 19.82   |
| 20                                     | 1       | 0         | 64-QAM | 19.90  | 20.01  | 20.02   |
| 20                                     | 1       | 49        |        | 19.86  | 19.87  | 19.98   |
| 20                                     | 1       | 99        |        | 19.84  | 19.84  | 20.06   |
| 20                                     | 50      | 0         |        | 18.66  | 18.86  | 18.81   |
| 20                                     | 50      | 24        |        | 18.73  | 18.76  | 18.85   |
| 20                                     | 50      | 50        |        | 18.70  | 18.76  | 18.87   |
| 20                                     | 100     | 0         |        | 18.73  | 18.74  | 18.86   |
| 15                                     | 1       | 0         | QPSK   | 21.78  | 21.80  | 21.79   |
| 15                                     | 1       | 37        |        | 21.67  | 21.67  | 21.80   |
| 15                                     | 1       | 74        |        | 21.77  | 21.63  | 21.84   |
| 15                                     | 36      | 0         |        | 20.77  | 20.81  | 20.83   |
| 15                                     | 36      | 20        |        | 20.73  | 20.75  | 20.88   |
| 15                                     | 36      | 39        |        | 20.79  | 20.74  | 20.85   |
| 15                                     | 75      | 0         |        | 20.75  | 20.71  | 20.88   |
| 15                                     | 1       | 0         | 16-QAM | 21.07  | 21.09  | 21.10   |
| 15                                     | 1       | 37        |        | 20.95  | 20.98  | 21.12   |
| 15                                     | 1       | 74        |        | 21.06  | 20.93  | 21.14   |
| 15                                     | 36      | 0         |        | 19.79  | 19.84  | 19.88   |
| 15                                     | 36      | 20        |        | 19.77  | 19.79  | 19.91   |
| 15                                     | 36      | 39        |        | 19.84  | 19.75  | 19.88   |
| 15                                     | 75      | 0         |        | 19.78  | 19.74  | 19.85   |
| 15                                     | 1       | 0         | 64-QAM | 20.05  | 20.04  | 20.02   |
| 15                                     | 1       | 37        |        | 19.89  | 19.90  | 20.01   |
| 15                                     | 1       | 74        |        | 19.98  | 19.86  | 20.07   |
| 15                                     | 36      | 0         |        | 18.80  | 18.85  | 18.88   |
| 15                                     | 36      | 20        |        | 18.79  | 18.79  | 18.94   |
| 15                                     | 36      | 39        |        | 18.86  | 18.77  | 18.93   |
| 15                                     | 75      | 0         |        | 18.76  | 18.77  | 18.88   |



| LTE Band 7 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                     | 1       | 0         | QPSK   | 21.75  | 21.82  | 21.83   |
| 10                                     | 1       | 25        |        | 21.73  | 21.68  | 21.86   |
| 10                                     | 1       | 49        |        | 21.78  | 21.69  | 21.83   |
| 10                                     | 25      | 0         |        | 20.75  | 20.71  | 20.87   |
| 10                                     | 25      | 12        |        | 20.75  | 20.75  | 20.92   |
| 10                                     | 25      | 25        |        | 20.70  | 20.71  | 20.86   |
| 10                                     | 50      | 0         |        | 20.74  | 20.73  | 20.85   |
| 10                                     | 1       | 0         | 16-QAM | 21.07  | 21.10  | 21.13   |
| 10                                     | 1       | 25        |        | 21.03  | 21.02  | 21.15   |
| 10                                     | 1       | 49        |        | 21.08  | 21.04  | 21.15   |
| 10                                     | 25      | 0         |        | 19.78  | 19.74  | 19.90   |
| 10                                     | 25      | 12        |        | 19.79  | 19.77  | 19.91   |
| 10                                     | 25      | 25        |        | 19.74  | 19.74  | 19.89   |
| 10                                     | 50      | 0         |        | 19.77  | 19.77  | 19.91   |
| 10                                     | 1       | 0         | 64-QAM | 19.96  | 20.02  | 20.04   |
| 10                                     | 1       | 25        |        | 19.91  | 19.94  | 20.06   |
| 10                                     | 1       | 49        |        | 19.96  | 19.92  | 20.06   |
| 10                                     | 25      | 0         |        | 18.80  | 18.77  | 18.92   |
| 10                                     | 25      | 12        |        | 18.80  | 18.80  | 18.96   |
| 10                                     | 25      | 25        |        | 18.76  | 18.77  | 18.92   |
| 10                                     | 50      | 0         |        | 18.79  | 18.78  | 18.94   |
| 5                                      | 1       | 0         | QPSK   | 21.64  | 21.71  | 21.96   |
| 5                                      | 1       | 12        |        | 21.65  | 21.71  | 21.97   |
| 5                                      | 1       | 24        |        | 21.58  | 21.72  | 21.96   |
| 5                                      | 12      | 0         |        | 20.70  | 20.77  | 21.01   |
| 5                                      | 12      | 7         |        | 20.73  | 20.81  | 21.06   |
| 5                                      | 12      | 13        |        | 20.63  | 20.73  | 21.05   |
| 5                                      | 25      | 0         |        | 20.66  | 20.76  | 21.02   |
| 5                                      | 1       | 0         | 16-QAM | 20.97  | 21.02  | 21.24   |
| 5                                      | 1       | 12        |        | 20.98  | 21.03  | 21.28   |
| 5                                      | 1       | 24        |        | 20.90  | 21.02  | 21.26   |
| 5                                      | 12      | 0         |        | 19.71  | 19.78  | 20.06   |
| 5                                      | 12      | 7         |        | 19.75  | 19.81  | 20.08   |
| 5                                      | 12      | 13        |        | 19.67  | 19.77  | 20.04   |
| 5                                      | 25      | 0         |        | 19.68  | 19.78  | 20.02   |
| 5                                      | 1       | 0         | 64-QAM | 19.88  | 19.91  | 20.16   |
| 5                                      | 1       | 12        |        | 19.85  | 19.95  | 20.18   |
| 5                                      | 1       | 24        |        | 19.81  | 19.91  | 20.15   |
| 5                                      | 12      | 0         |        | 18.75  | 18.80  | 19.06   |
| 5                                      | 12      | 7         |        | 18.78  | 18.83  | 19.10   |
| 5                                      | 12      | 13        |        | 18.72  | 18.82  | 19.06   |
| 5                                      | 25      | 0         |        | 18.69  | 18.76  | 19.02   |



| LTE Band 12 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                      | 1       | 0         | QPSK   | 22.75  | 22.70  | 22.76   |
| 10                                      | 1       | 25        |        | 22.69  | 22.70  | 22.67   |
| 10                                      | 1       | 49        |        | 22.67  | 22.73  | 22.70   |
| 10                                      | 25      | 0         |        | 21.67  | 21.78  | 21.70   |
| 10                                      | 25      | 12        |        | 21.80  | 21.78  | 21.78   |
| 10                                      | 25      | 25        |        | 21.80  | 21.82  | 21.76   |
| 10                                      | 50      | 0         |        | 21.78  | 21.72  | 21.81   |
| 10                                      | 1       | 0         | 16-QAM | 21.90  | 21.98  | 21.99   |
| 10                                      | 1       | 25        |        | 22.04  | 22.01  | 22.04   |
| 10                                      | 1       | 49        |        | 22.01  | 21.99  | 21.98   |
| 10                                      | 25      | 0         |        | 20.74  | 20.76  | 20.69   |
| 10                                      | 25      | 12        |        | 20.84  | 20.77  | 20.83   |
| 10                                      | 25      | 25        |        | 20.74  | 20.84  | 20.79   |
| 10                                      | 50      | 0         |        | 20.82  | 20.75  | 20.82   |
| 10                                      | 1       | 0         | 64-QAM | 20.93  | 20.94  | 20.89   |
| 10                                      | 1       | 25        |        | 20.94  | 20.94  | 20.98   |
| 10                                      | 1       | 49        |        | 20.90  | 20.98  | 20.88   |
| 10                                      | 25      | 0         |        | 19.71  | 19.76  | 19.69   |
| 10                                      | 25      | 12        |        | 19.83  | 19.78  | 19.85   |
| 10                                      | 25      | 25        |        | 19.74  | 19.83  | 19.79   |
| 10                                      | 50      | 0         |        | 19.84  | 19.76  | 19.81   |
| 5                                       | 1       | 0         | QPSK   | 22.72  | 22.71  | 22.75   |
| 5                                       | 1       | 12        |        | 22.62  | 22.65  | 22.72   |
| 5                                       | 1       | 24        |        | 22.72  | 22.75  | 22.71   |
| 5                                       | 12      | 0         |        | 21.71  | 21.73  | 21.76   |
| 5                                       | 12      | 7         |        | 21.73  | 21.71  | 21.79   |
| 5                                       | 12      | 13        |        | 21.79  | 21.69  | 21.74   |
| 5                                       | 25      | 0         |        | 21.68  | 21.74  | 21.73   |
| 5                                       | 1       | 0         | 16-QAM | 21.93  | 22.01  | 21.97   |
| 5                                       | 1       | 12        |        | 21.92  | 21.99  | 21.95   |
| 5                                       | 1       | 24        |        | 22.02  | 22.06  | 21.96   |
| 5                                       | 12      | 0         |        | 20.76  | 20.74  | 20.83   |
| 5                                       | 12      | 7         |        | 20.77  | 20.75  | 20.84   |
| 5                                       | 12      | 13        |        | 20.81  | 20.71  | 20.74   |
| 5                                       | 25      | 0         |        | 20.71  | 20.74  | 20.77   |
| 5                                       | 1       | 0         | 64-QAM | 20.85  | 20.89  | 20.80   |
| 5                                       | 1       | 12        |        | 20.86  | 20.89  | 20.89   |
| 5                                       | 1       | 24        |        | 20.82  | 20.93  | 20.79   |
| 5                                       | 12      | 0         |        | 19.63  | 19.71  | 19.60   |
| 5                                       | 12      | 7         |        | 19.75  | 19.73  | 19.76   |
| 5                                       | 12      | 13        |        | 19.66  | 19.78  | 19.70   |
| 5                                       | 25      | 0         |        | 19.76  | 19.71  | 19.72   |



| LTE Band 12 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 3                                       | 1       | 0         | QPSK   | 22.66  | 22.67  | 22.69   |
| 3                                       | 1       | 8         |        | 22.67  | 22.65  | 22.68   |
| 3                                       | 1       | 14        |        | 22.61  | 22.63  | 22.67   |
| 3                                       | 8       | 0         |        | 21.68  | 21.71  | 21.82   |
| 3                                       | 8       | 4         |        | 21.68  | 21.74  | 21.87   |
| 3                                       | 8       | 7         |        | 21.66  | 21.70  | 21.85   |
| 3                                       | 15      | 0         |        | 21.67  | 21.70  | 21.81   |
| 3                                       | 1       | 0         | 16-QAM | 21.88  | 21.97  | 22.02   |
| 3                                       | 1       | 8         |        | 21.90  | 21.96  | 22.05   |
| 3                                       | 1       | 14        |        | 21.88  | 21.94  | 22.07   |
| 3                                       | 8       | 0         |        | 20.78  | 20.75  | 20.88   |
| 3                                       | 8       | 4         |        | 20.79  | 20.78  | 20.91   |
| 3                                       | 8       | 7         |        | 20.73  | 20.74  | 20.89   |
| 3                                       | 15      | 0         |        | 20.74  | 20.75  | 20.85   |
| 3                                       | 1       | 0         | 64-QAM | 20.86  | 20.88  | 21.01   |
| 3                                       | 1       | 8         |        | 20.89  | 20.86  | 20.99   |
| 3                                       | 1       | 14        |        | 20.86  | 20.87  | 20.97   |
| 3                                       | 8       | 0         |        | 19.75  | 19.75  | 19.87   |
| 3                                       | 8       | 4         |        | 19.74  | 19.77  | 19.90   |
| 3                                       | 8       | 7         |        | 19.71  | 19.73  | 19.87   |
| 3                                       | 15      | 0         |        | 19.69  | 19.74  | 19.85   |
| 1.4                                     | 1       | 0         | QPSK   | 22.40  | 22.41  | 22.50   |
| 1.4                                     | 1       | 3         |        | 22.47  | 22.47  | 22.60   |
| 1.4                                     | 1       | 5         |        | 22.40  | 22.39  | 22.49   |
| 1.4                                     | 3       | 0         |        | 22.49  | 22.45  | 22.56   |
| 1.4                                     | 3       | 1         |        | 22.54  | 22.50  | 22.59   |
| 1.4                                     | 3       | 3         |        | 22.49  | 22.44  | 22.55   |
| 1.4                                     | 6       | 0         |        | 21.44  | 21.45  | 21.56   |
| 1.4                                     | 1       | 0         | 16-QAM | 21.67  | 21.72  | 21.80   |
| 1.4                                     | 1       | 3         |        | 21.72  | 21.77  | 21.88   |
| 1.4                                     | 1       | 5         |        | 21.63  | 21.69  | 21.81   |
| 1.4                                     | 3       | 0         |        | 21.46  | 21.49  | 21.61   |
| 1.4                                     | 3       | 1         |        | 21.51  | 21.53  | 21.65   |
| 1.4                                     | 3       | 3         |        | 21.45  | 21.48  | 21.60   |
| 1.4                                     | 6       | 0         |        | 20.49  | 20.53  | 20.65   |
| 1.4                                     | 1       | 0         | 64-QAM | 20.66  | 20.62  | 20.75   |
| 1.4                                     | 1       | 3         |        | 20.71  | 20.65  | 20.79   |
| 1.4                                     | 1       | 5         |        | 20.65  | 20.62  | 20.71   |
| 1.4                                     | 3       | 0         |        | 20.60  | 20.63  | 20.72   |
| 1.4                                     | 3       | 1         |        | 20.64  | 20.66  | 20.75   |
| 1.4                                     | 3       | 3         |        | 20.58  | 20.59  | 20.71   |
| 1.4                                     | 6       | 0         |        | 19.47  | 19.44  | 19.56   |



| LTE Band 13 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                      | 1       | 0         | QPSK   |        | 22.85  |         |
| 10                                      | 1       | 25        |        |        | 22.79  |         |
| 10                                      | 1       | 49        |        |        | 22.77  |         |
| 10                                      | 25      | 0         |        |        | 21.77  |         |
| 10                                      | 25      | 12        |        |        | 21.90  |         |
| 10                                      | 25      | 25        |        |        | 21.89  |         |
| 10                                      | 50      | 0         |        |        | 21.90  |         |
| 10                                      | 1       | 0         | 16-QAM |        | 22.05  |         |
| 10                                      | 1       | 25        |        |        | 22.17  |         |
| 10                                      | 1       | 49        |        |        | 22.09  |         |
| 10                                      | 25      | 0         |        |        | 20.79  |         |
| 10                                      | 25      | 12        |        |        | 20.92  |         |
| 10                                      | 25      | 25        |        |        | 20.86  |         |
| 10                                      | 50      | 0         |        |        | 20.92  |         |
| 10                                      | 1       | 0         | 64-QAM |        | 21.00  |         |
| 10                                      | 1       | 25        |        |        | 21.02  |         |
| 10                                      | 1       | 49        |        |        | 21.00  |         |
| 10                                      | 25      | 0         |        |        | 19.82  |         |
| 10                                      | 25      | 12        |        |        | 19.96  |         |
| 10                                      | 25      | 25        |        |        | 19.88  |         |
| 10                                      | 50      | 0         |        |        | 19.94  |         |
| 5                                       | 1       | 0         | QPSK   | 22.77  | 22.75  | 22.84   |
| 5                                       | 1       | 12        |        | 22.74  | 22.80  | 22.78   |
| 5                                       | 1       | 24        |        | 22.82  | 22.80  | 22.77   |
| 5                                       | 12      | 0         |        | 21.79  | 21.76  | 21.82   |
| 5                                       | 12      | 7         |        | 21.81  | 21.89  | 21.86   |
| 5                                       | 12      | 13        |        | 21.77  | 21.84  | 21.84   |
| 5                                       | 25      | 0         |        | 21.76  | 21.85  | 21.87   |
| 5                                       | 1       | 0         | 16-QAM | 22.04  | 22.05  | 22.15   |
| 5                                       | 1       | 12        |        | 22.08  | 22.13  | 22.12   |
| 5                                       | 1       | 24        |        | 22.14  | 22.08  | 22.09   |
| 5                                       | 12      | 0         |        | 20.81  | 20.81  | 20.85   |
| 5                                       | 12      | 7         |        | 20.87  | 20.90  | 20.86   |
| 5                                       | 12      | 13        |        | 20.80  | 20.83  | 20.86   |
| 5                                       | 25      | 0         |        | 20.78  | 20.88  | 20.85   |
| 5                                       | 1       | 0         | 64-QAM | 20.83  | 20.84  | 20.78   |
| 5                                       | 1       | 12        |        | 20.83  | 20.83  | 20.86   |
| 5                                       | 1       | 24        |        | 20.79  | 20.85  | 20.79   |
| 5                                       | 12      | 0         |        | 19.62  | 19.65  | 19.57   |
| 5                                       | 12      | 7         |        | 19.72  | 19.69  | 19.73   |
| 5                                       | 12      | 13        |        | 19.65  | 19.71  | 19.67   |
| 5                                       | 25      | 0         |        | 19.72  | 19.69  | 19.69   |



| LTE Band 26 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 15                                      | 1       | 0         | QPSK   | 22.79  | 22.81  | 22.84   |
| 15                                      | 1       | 37        |        | 22.65  | 22.65  | 22.64   |
| 15                                      | 1       | 74        |        | 22.58  | 22.61  | 22.59   |
| 15                                      | 36      | 0         |        | 21.73  | 21.73  | 21.73   |
| 15                                      | 36      | 20        |        | 21.69  | 21.72  | 21.74   |
| 15                                      | 36      | 39        |        | 21.69  | 21.68  | 21.73   |
| 15                                      | 75      | 0         |        | 21.76  | 21.68  | 21.71   |
| 15                                      | 1       | 0         | 16-QAM | 21.97  | 22.04  | 22.05   |
| 15                                      | 1       | 37        |        | 21.95  | 21.97  | 21.95   |
| 15                                      | 1       | 74        |        | 21.88  | 21.92  | 21.92   |
| 15                                      | 36      | 0         |        | 20.74  | 20.73  | 20.78   |
| 15                                      | 36      | 20        |        | 20.71  | 20.71  | 20.72   |
| 15                                      | 36      | 39        |        | 20.68  | 20.74  | 20.72   |
| 15                                      | 75      | 0         |        | 20.74  | 20.66  | 20.70   |
| 15                                      | 1       | 0         | 64-QAM | 20.97  | 20.97  | 20.98   |
| 15                                      | 1       | 37        |        | 20.90  | 20.86  | 20.91   |
| 15                                      | 1       | 74        |        | 20.81  | 20.83  | 20.84   |
| 15                                      | 36      | 0         |        | 19.72  | 19.76  | 19.78   |
| 15                                      | 36      | 20        |        | 19.74  | 19.74  | 19.76   |
| 15                                      | 36      | 39        |        | 19.71  | 19.73  | 19.75   |
| 15                                      | 75      | 0         |        | 19.75  | 19.66  | 19.69   |
| 10                                      | 1       | 0         | QPSK   | 22.77  | 22.66  | 22.74   |
| 10                                      | 1       | 25        |        | 22.68  | 22.61  | 22.78   |
| 10                                      | 1       | 49        |        | 22.67  | 22.58  | 22.67   |
| 10                                      | 25      | 0         |        | 21.86  | 21.66  | 21.76   |
| 10                                      | 25      | 12        |        | 21.74  | 21.63  | 21.85   |
| 10                                      | 25      | 25        |        | 21.67  | 21.57  | 21.80   |
| 10                                      | 50      | 0         |        | 21.72  | 21.59  | 21.82   |
| 10                                      | 1       | 0         | 16-QAM | 22.05  | 21.95  | 22.06   |
| 10                                      | 1       | 25        |        | 22.03  | 21.90  | 22.07   |
| 10                                      | 1       | 49        |        | 22.06  | 21.93  | 22.00   |
| 10                                      | 25      | 0         |        | 20.86  | 20.65  | 20.75   |
| 10                                      | 25      | 12        |        | 20.74  | 20.63  | 20.86   |
| 10                                      | 25      | 25        |        | 20.69  | 20.58  | 20.79   |
| 10                                      | 50      | 0         |        | 20.74  | 20.64  | 20.84   |
| 10                                      | 1       | 0         | 64-QAM | 20.95  | 20.82  | 20.96   |
| 10                                      | 1       | 25        |        | 20.96  | 20.76  | 21.01   |
| 10                                      | 1       | 49        |        | 20.94  | 20.80  | 20.89   |
| 10                                      | 25      | 0         |        | 19.88  | 19.67  | 19.78   |
| 10                                      | 25      | 12        |        | 19.79  | 19.66  | 19.88   |
| 10                                      | 25      | 25        |        | 19.70  | 19.57  | 19.81   |
| 10                                      | 50      | 0         |        | 19.75  | 19.64  | 19.87   |



| LTE Band 26 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 5                                       | 1       | 0         | QPSK   | 22.63  | 22.58  | 22.68   |
| 5                                       | 1       | 12        |        | 22.67  | 22.55  | 22.60   |
| 5                                       | 1       | 24        |        | 22.54  | 22.51  | 22.59   |
| 5                                       | 12      | 0         |        | 21.68  | 21.61  | 21.71   |
| 5                                       | 12      | 7         |        | 21.74  | 21.62  | 21.71   |
| 5                                       | 12      | 13        |        | 21.73  | 21.57  | 21.64   |
| 5                                       | 25      | 0         |        | 21.73  | 21.63  | 21.69   |
| 5                                       | 1       | 0         | 16-QAM | 21.95  | 21.92  | 21.94   |
| 5                                       | 1       | 12        |        | 22.02  | 21.86  | 21.92   |
| 5                                       | 1       | 24        |        | 21.87  | 21.85  | 21.88   |
| 5                                       | 12      | 0         |        | 20.67  | 20.63  | 20.72   |
| 5                                       | 12      | 7         |        | 20.78  | 20.64  | 20.71   |
| 5                                       | 12      | 13        |        | 20.72  | 20.59  | 20.66   |
| 5                                       | 25      | 0         |        | 20.73  | 20.61  | 20.67   |
| 5                                       | 1       | 0         | 64-QAM | 20.87  | 20.76  | 20.89   |
| 5                                       | 1       | 12        |        | 20.88  | 20.70  | 20.94   |
| 5                                       | 1       | 24        |        | 20.86  | 20.74  | 20.82   |
| 5                                       | 12      | 0         |        | 19.80  | 19.61  | 19.71   |
| 5                                       | 12      | 7         |        | 19.71  | 19.60  | 19.81   |
| 5                                       | 12      | 13        |        | 19.62  | 19.51  | 19.74   |
| 5                                       | 25      | 0         |        | 19.67  | 19.58  | 19.80   |
| 3                                       | 1       | 0         | QPSK   | 22.60  | 22.58  | 22.72   |
| 3                                       | 1       | 8         |        | 22.58  | 22.54  | 22.70   |
| 3                                       | 1       | 14        |        | 22.65  | 22.52  | 22.69   |
| 3                                       | 8       | 0         |        | 21.66  | 21.60  | 21.80   |
| 3                                       | 8       | 4         |        | 21.68  | 21.61  | 21.81   |
| 3                                       | 8       | 7         |        | 21.72  | 21.55  | 21.78   |
| 3                                       | 15      | 0         |        | 21.64  | 21.59  | 21.78   |
| 3                                       | 1       | 0         | 16-QAM | 21.92  | 21.89  | 22.03   |
| 3                                       | 1       | 8         |        | 21.93  | 21.91  | 22.05   |
| 3                                       | 1       | 14        |        | 22.00  | 21.83  | 21.98   |
| 3                                       | 8       | 0         |        | 20.70  | 20.64  | 20.83   |
| 3                                       | 8       | 4         |        | 20.72  | 20.65  | 20.86   |
| 3                                       | 8       | 7         |        | 20.78  | 20.62  | 20.83   |
| 3                                       | 15      | 0         |        | 20.65  | 20.59  | 20.81   |
| 3                                       | 1       | 0         | 64-QAM | 20.85  | 20.71  | 20.95   |
| 3                                       | 1       | 8         |        | 20.76  | 20.76  | 20.92   |
| 3                                       | 1       | 14        |        | 20.86  | 20.68  | 20.92   |
| 3                                       | 8       | 0         |        | 19.68  | 19.64  | 19.79   |
| 3                                       | 8       | 4         |        | 19.70  | 19.64  | 19.82   |
| 3                                       | 8       | 7         |        | 19.75  | 19.61  | 19.78   |
| 3                                       | 15      | 0         |        | 19.66  | 19.63  | 19.81   |



| LTE Band 26 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 1.4                                     | 1       | 0         | QPSK   | 22.54  | 22.51  | 22.65   |
| 1.4                                     | 1       | 3         |        | 22.63  | 22.57  | 22.72   |
| 1.4                                     | 1       | 5         |        | 22.54  | 22.49  | 22.65   |
| 1.4                                     | 3       | 0         |        | 22.60  | 22.54  | 22.70   |
| 1.4                                     | 3       | 1         |        | 22.65  | 22.60  | 22.75   |
| 1.4                                     | 3       | 3         |        | 22.61  | 22.56  | 22.71   |
| 1.4                                     | 6       | 0         |        | 21.58  | 21.54  | 21.69   |
| 1.4                                     | 1       | 0         | 16-QAM | 21.88  | 21.81  | 21.93   |
| 1.4                                     | 1       | 3         |        | 21.96  | 21.88  | 22.02   |
| 1.4                                     | 1       | 5         |        | 21.88  | 21.79  | 21.95   |
| 1.4                                     | 3       | 0         |        | 21.63  | 21.60  | 21.76   |
| 1.4                                     | 3       | 1         |        | 21.68  | 21.63  | 21.79   |
| 1.4                                     | 3       | 3         |        | 21.64  | 21.55  | 21.72   |
| 1.4                                     | 6       | 0         |        | 20.68  | 20.62  | 20.80   |
| 1.4                                     | 1       | 0         | 64-QAM | 20.74  | 20.69  | 20.88   |
| 1.4                                     | 1       | 3         |        | 20.79  | 20.72  | 20.93   |
| 1.4                                     | 1       | 5         |        | 20.70  | 20.69  | 20.85   |
| 1.4                                     | 3       | 0         |        | 20.75  | 20.70  | 20.87   |
| 1.4                                     | 3       | 1         |        | 20.81  | 20.75  | 20.91   |
| 1.4                                     | 3       | 3         |        | 20.78  | 20.70  | 20.86   |
| 1.4                                     | 6       | 0         |        | 19.62  | 19.56  | 19.71   |



| LTE Band 41 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 20                                      | 1       | 0         | QPSK   | 21.93  | 21.89  | 21.99   |
| 20                                      | 1       | 49        |        | 21.86  | 21.80  | 21.82   |
| 20                                      | 1       | 99        |        | 21.73  | 21.70  | 21.83   |
| 20                                      | 50      | 0         |        | 20.94  | 20.91  | 20.96   |
| 20                                      | 50      | 24        |        | 20.91  | 20.91  | 20.87   |
| 20                                      | 50      | 50        |        | 20.87  | 20.72  | 20.84   |
| 20                                      | 100     | 0         |        | 20.92  | 20.88  | 20.85   |
| 20                                      | 1       | 0         | 16-QAM | 21.03  | 21.05  | 21.10   |
| 20                                      | 1       | 49        |        | 20.93  | 20.95  | 20.88   |
| 20                                      | 1       | 99        |        | 20.93  | 20.80  | 20.90   |
| 20                                      | 50      | 0         |        | 20.06  | 19.94  | 19.96   |
| 20                                      | 50      | 24        |        | 19.97  | 19.92  | 19.88   |
| 20                                      | 50      | 50        |        | 20.05  | 19.78  | 19.85   |
| 20                                      | 100     | 0         |        | 20.05  | 19.91  | 19.86   |
| 20                                      | 1       | 0         | 64-QAM | 19.81  | 19.65  | 19.76   |
| 20                                      | 1       | 49        |        | 19.69  | 19.56  | 19.52   |
| 20                                      | 1       | 99        |        | 19.63  | 19.45  | 19.56   |
| 20                                      | 50      | 0         |        | 19.05  | 18.91  | 18.94   |
| 20                                      | 50      | 24        |        | 19.04  | 18.91  | 18.85   |
| 20                                      | 50      | 50        |        | 19.02  | 18.75  | 18.86   |
| 20                                      | 100     | 0         |        | 19.05  | 18.90  | 18.89   |
| 15                                      | 1       | 0         | QPSK   | 21.98  | 21.88  | 21.95   |
| 15                                      | 1       | 37        |        | 21.95  | 21.83  | 21.82   |
| 15                                      | 1       | 74        |        | 21.95  | 21.70  | 21.81   |
| 15                                      | 36      | 0         |        | 20.98  | 20.85  | 20.84   |
| 15                                      | 36      | 20        |        | 20.98  | 20.85  | 20.88   |
| 15                                      | 36      | 39        |        | 20.96  | 20.81  | 20.86   |
| 15                                      | 75      | 0         |        | 20.98  | 20.84  | 20.86   |
| 15                                      | 1       | 0         | 16-QAM | 21.14  | 21.02  | 21.06   |
| 15                                      | 1       | 37        |        | 21.06  | 21.00  | 20.92   |
| 15                                      | 1       | 74        |        | 21.02  | 20.71  | 20.93   |
| 15                                      | 36      | 0         |        | 19.98  | 19.85  | 19.83   |
| 15                                      | 36      | 20        |        | 19.96  | 19.86  | 19.84   |
| 15                                      | 36      | 39        |        | 19.94  | 19.79  | 19.79   |
| 15                                      | 75      | 0         |        | 20.00  | 19.87  | 19.87   |
| 15                                      | 1       | 0         | 64-QAM | 19.75  | 19.66  | 19.74   |
| 15                                      | 1       | 37        |        | 19.68  | 19.57  | 19.58   |
| 15                                      | 1       | 74        |        | 19.75  | 19.48  | 19.61   |
| 15                                      | 36      | 0         |        | 18.98  | 18.88  | 18.84   |
| 15                                      | 36      | 20        |        | 18.97  | 18.87  | 18.88   |
| 15                                      | 36      | 39        |        | 18.93  | 18.83  | 18.84   |
| 15                                      | 75      | 0         |        | 18.99  | 18.89  | 18.88   |



| LTE Band 41 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                      | 1       | 0         | QPSK   | 21.99  | 21.84  | 21.85   |
| 10                                      | 1       | 25        |        | 21.99  | 21.83  | 21.84   |
| 10                                      | 1       | 49        |        | 21.94  | 21.72  | 21.85   |
| 10                                      | 25      | 0         |        | 20.99  | 20.86  | 20.90   |
| 10                                      | 25      | 12        |        | 21.01  | 20.90  | 20.91   |
| 10                                      | 25      | 25        |        | 20.98  | 20.86  | 20.88   |
| 10                                      | 50      | 0         |        | 20.98  | 20.86  | 20.88   |
| 10                                      | 1       | 0         | 16-QAM | 21.08  | 20.98  | 20.95   |
| 10                                      | 1       | 25        |        | 21.08  | 20.99  | 20.96   |
| 10                                      | 1       | 49        |        | 21.05  | 20.78  | 20.90   |
| 10                                      | 25      | 0         |        | 20.03  | 19.91  | 19.90   |
| 10                                      | 25      | 12        |        | 20.03  | 19.92  | 19.93   |
| 10                                      | 25      | 25        |        | 19.97  | 19.86  | 19.85   |
| 10                                      | 50      | 0         |        | 20.04  | 19.94  | 19.90   |
| 10                                      | 1       | 0         | 64-QAM | 19.76  | 19.53  | 19.72   |
| 10                                      | 1       | 25        |        | 19.64  | 19.48  | 19.33   |
| 10                                      | 1       | 49        |        | 19.62  | 19.28  | 19.40   |
| 10                                      | 25      | 0         |        | 19.02  | 18.80  | 18.78   |
| 10                                      | 25      | 12        |        | 19.04  | 18.82  | 18.78   |
| 10                                      | 25      | 25        |        | 19.02  | 18.75  | 18.75   |
| 10                                      | 50      | 0         |        | 18.85  | 18.89  | 18.89   |
| 5                                       | 1       | 0         | QPSK   | 21.87  | 21.84  | 21.88   |
| 5                                       | 1       | 12        |        | 21.86  | 21.83  | 21.88   |
| 5                                       | 1       | 24        |        | 21.80  | 21.82  | 21.82   |
| 5                                       | 12      | 0         |        | 20.88  | 20.89  | 20.90   |
| 5                                       | 12      | 7         |        | 20.90  | 20.91  | 20.94   |
| 5                                       | 12      | 13        |        | 20.89  | 20.85  | 20.90   |
| 5                                       | 25      | 0         |        | 20.88  | 20.89  | 20.91   |
| 5                                       | 1       | 0         | 16-QAM | 20.97  | 20.91  | 20.92   |
| 5                                       | 1       | 12        |        | 20.97  | 20.85  | 20.96   |
| 5                                       | 1       | 24        |        | 20.98  | 20.94  | 20.98   |
| 5                                       | 12      | 0         |        | 19.91  | 19.91  | 19.89   |
| 5                                       | 12      | 7         |        | 19.90  | 19.89  | 19.93   |
| 5                                       | 12      | 13        |        | 19.89  | 19.89  | 19.88   |
| 5                                       | 25      | 0         |        | 19.93  | 19.89  | 19.94   |
| 5                                       | 1       | 0         | 64-QAM | 19.68  | 19.45  | 19.71   |
| 5                                       | 1       | 12        |        | 19.58  | 19.47  | 19.52   |
| 5                                       | 1       | 24        |        | 19.48  | 19.36  | 19.49   |
| 5                                       | 12      | 0         |        | 19.00  | 18.75  | 18.84   |
| 5                                       | 12      | 7         |        | 18.84  | 18.83  | 18.66   |
| 5                                       | 12      | 13        |        | 19.00  | 18.61  | 18.68   |
| 5                                       | 25      | 0         |        | 18.88  | 18.83  | 18.80   |



| LTE Band 66 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 20                                      | 1       | 0         | QPSK   | 22.73  | 22.99  | 22.96   |
| 20                                      | 1       | 49        |        | 22.55  | 22.71  | 22.60   |
| 20                                      | 1       | 99        |        | 22.55  | 22.66  | 22.51   |
| 20                                      | 50      | 0         |        | 21.68  | 21.84  | 21.86   |
| 20                                      | 50      | 24        |        | 21.62  | 21.77  | 21.72   |
| 20                                      | 50      | 50        |        | 21.60  | 21.70  | 21.61   |
| 20                                      | 100     | 0         |        | 21.64  | 21.76  | 21.71   |
| 20                                      | 1       | 0         | 16-QAM | 22.10  | 22.28  | 22.27   |
| 20                                      | 1       | 49        |        | 21.90  | 22.05  | 21.93   |
| 20                                      | 1       | 99        |        | 21.90  | 21.95  | 21.86   |
| 20                                      | 50      | 0         |        | 20.67  | 20.85  | 20.90   |
| 20                                      | 50      | 24        |        | 20.63  | 20.77  | 20.68   |
| 20                                      | 50      | 50        |        | 20.60  | 20.70  | 20.61   |
| 20                                      | 100     | 0         |        | 20.62  | 20.76  | 20.67   |
| 20                                      | 1       | 0         | 64-QAM | 20.94  | 21.19  | 21.14   |
| 20                                      | 1       | 49        |        | 20.75  | 20.90  | 20.80   |
| 20                                      | 1       | 99        |        | 20.75  | 20.84  | 20.72   |
| 20                                      | 50      | 0         |        | 19.71  | 19.86  | 19.89   |
| 20                                      | 50      | 24        |        | 19.65  | 19.77  | 19.69   |
| 20                                      | 50      | 50        |        | 19.61  | 19.74  | 19.64   |
| 20                                      | 100     | 0         |        | 19.63  | 19.76  | 19.72   |
| 15                                      | 1       | 0         | QPSK   | 22.81  | 22.88  | 22.93   |
| 15                                      | 1       | 37        |        | 22.65  | 22.71  | 22.63   |
| 15                                      | 1       | 74        |        | 22.69  | 22.70  | 22.57   |
| 15                                      | 36      | 0         |        | 21.77  | 21.80  | 21.74   |
| 15                                      | 36      | 20        |        | 21.72  | 21.76  | 21.70   |
| 15                                      | 36      | 39        |        | 21.70  | 21.72  | 21.61   |
| 15                                      | 75      | 0         |        | 21.75  | 21.78  | 21.66   |
| 15                                      | 1       | 0         | 16-QAM | 22.18  | 22.22  | 22.27   |
| 15                                      | 1       | 37        |        | 22.04  | 22.09  | 21.94   |
| 15                                      | 1       | 74        |        | 21.96  | 22.03  | 21.89   |
| 15                                      | 36      | 0         |        | 20.79  | 20.82  | 20.76   |
| 15                                      | 36      | 20        |        | 20.78  | 20.76  | 20.67   |
| 15                                      | 36      | 39        |        | 20.69  | 20.72  | 20.60   |
| 15                                      | 75      | 0         |        | 20.76  | 20.78  | 20.68   |
| 15                                      | 1       | 0         | 64-QAM | 21.01  | 21.10  | 21.14   |
| 15                                      | 1       | 37        |        | 20.86  | 20.91  | 20.78   |
| 15                                      | 1       | 74        |        | 20.89  | 20.90  | 20.79   |
| 15                                      | 36      | 0         |        | 19.81  | 19.84  | 19.77   |
| 15                                      | 36      | 20        |        | 19.76  | 19.79  | 19.69   |
| 15                                      | 36      | 39        |        | 19.73  | 19.72  | 19.63   |
| 15                                      | 75      | 0         |        | 19.73  | 19.76  | 19.67   |



| LTE Band 66 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                      | 1       | 0         | QPSK   | 22.76  | 22.84  | 22.72   |
| 10                                      | 1       | 25        |        | 22.66  | 22.73  | 22.62   |
| 10                                      | 1       | 49        |        | 22.64  | 22.65  | 22.56   |
| 10                                      | 25      | 0         |        | 21.72  | 21.78  | 21.69   |
| 10                                      | 25      | 12        |        | 21.72  | 21.76  | 21.65   |
| 10                                      | 25      | 25        |        | 21.69  | 21.71  | 21.63   |
| 10                                      | 50      | 0         |        | 21.72  | 21.73  | 21.66   |
| 10                                      | 1       | 0         | 16-QAM | 22.06  | 22.15  | 22.07   |
| 10                                      | 1       | 25        |        | 22.03  | 22.08  | 21.97   |
| 10                                      | 1       | 49        |        | 21.97  | 21.99  | 21.87   |
| 10                                      | 25      | 0         |        | 20.74  | 20.76  | 20.70   |
| 10                                      | 25      | 12        |        | 20.74  | 20.77  | 20.68   |
| 10                                      | 25      | 25        |        | 20.71  | 20.70  | 20.61   |
| 10                                      | 50      | 0         |        | 20.75  | 20.74  | 20.68   |
| 10                                      | 1       | 0         | 64-QAM | 20.91  | 20.99  | 20.91   |
| 10                                      | 1       | 25        |        | 20.85  | 20.96  | 20.81   |
| 10                                      | 1       | 49        |        | 20.78  | 20.88  | 20.78   |
| 10                                      | 25      | 0         |        | 19.75  | 19.81  | 19.73   |
| 10                                      | 25      | 12        |        | 19.76  | 19.77  | 19.69   |
| 10                                      | 25      | 25        |        | 19.71  | 19.73  | 19.63   |
| 10                                      | 50      | 0         |        | 19.75  | 19.76  | 19.69   |
| 5                                       | 1       | 0         | QPSK   | 22.58  | 22.74  | 22.68   |
| 5                                       | 1       | 12        |        | 22.55  | 22.72  | 22.60   |
| 5                                       | 1       | 24        |        | 22.54  | 22.68  | 22.57   |
| 5                                       | 12      | 0         |        | 21.58  | 21.74  | 21.65   |
| 5                                       | 12      | 7         |        | 21.60  | 21.75  | 21.68   |
| 5                                       | 12      | 13        |        | 21.53  | 21.71  | 21.61   |
| 5                                       | 25      | 0         |        | 21.56  | 21.75  | 21.64   |
| 5                                       | 1       | 0         | 16-QAM | 21.93  | 22.14  | 22.02   |
| 5                                       | 1       | 12        |        | 21.88  | 22.03  | 21.95   |
| 5                                       | 1       | 24        |        | 21.87  | 22.04  | 21.91   |
| 5                                       | 12      | 0         |        | 20.61  | 20.76  | 20.68   |
| 5                                       | 12      | 7         |        | 20.61  | 20.77  | 20.66   |
| 5                                       | 12      | 13        |        | 20.54  | 20.74  | 20.62   |
| 5                                       | 25      | 0         |        | 20.55  | 20.74  | 20.65   |
| 5                                       | 1       | 0         | 64-QAM | 20.78  | 20.95  | 20.88   |
| 5                                       | 1       | 12        |        | 20.70  | 20.91  | 20.82   |
| 5                                       | 1       | 24        |        | 20.70  | 20.95  | 20.79   |
| 5                                       | 12      | 0         |        | 19.60  | 19.79  | 19.70   |
| 5                                       | 12      | 7         |        | 19.62  | 19.78  | 19.71   |
| 5                                       | 12      | 13        |        | 19.59  | 19.77  | 19.67   |
| 5                                       | 25      | 0         |        | 19.56  | 19.74  | 19.65   |



| LTE Band 66 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 3                                       | 1       | 0         | QPSK   | 22.56  | 22.69  | 22.61   |
| 3                                       | 1       | 8         |        | 22.52  | 22.67  | 22.62   |
| 3                                       | 1       | 14        |        | 22.52  | 22.64  | 22.58   |
| 3                                       | 8       | 0         |        | 21.53  | 21.70  | 21.63   |
| 3                                       | 8       | 4         |        | 21.56  | 21.73  | 21.65   |
| 3                                       | 8       | 7         |        | 21.54  | 21.67  | 21.64   |
| 3                                       | 15      | 0         |        | 21.54  | 21.70  | 21.64   |
| 3                                       | 1       | 0         | 16-QAM | 21.88  | 22.08  | 21.92   |
| 3                                       | 1       | 8         |        | 21.87  | 22.03  | 21.93   |
| 3                                       | 1       | 14        |        | 21.84  | 22.04  | 21.89   |
| 3                                       | 8       | 0         |        | 20.60  | 20.77  | 20.68   |
| 3                                       | 8       | 4         |        | 20.62  | 20.81  | 20.71   |
| 3                                       | 8       | 7         |        | 20.58  | 20.74  | 20.67   |
| 3                                       | 15      | 0         |        | 20.57  | 20.72  | 20.65   |
| 3                                       | 1       | 0         | 64-QAM | 20.75  | 20.88  | 20.80   |
| 3                                       | 1       | 8         |        | 20.68  | 20.89  | 20.78   |
| 3                                       | 1       | 14        |        | 20.70  | 20.84  | 20.75   |
| 3                                       | 8       | 0         |        | 19.57  | 19.75  | 19.68   |
| 3                                       | 8       | 4         |        | 19.60  | 19.77  | 19.70   |
| 3                                       | 8       | 7         |        | 19.56  | 19.71  | 19.63   |
| 3                                       | 15      | 0         |        | 19.54  | 19.71  | 19.64   |
| 1.4                                     | 1       | 0         | QPSK   | 22.47  | 22.66  | 22.55   |
| 1.4                                     | 1       | 3         |        | 22.55  | 22.73  | 22.65   |
| 1.4                                     | 1       | 5         |        | 22.47  | 22.65  | 22.55   |
| 1.4                                     | 3       | 0         |        | 22.51  | 22.69  | 22.59   |
| 1.4                                     | 3       | 1         |        | 22.55  | 22.73  | 22.64   |
| 1.4                                     | 3       | 3         |        | 22.49  | 22.69  | 22.58   |
| 1.4                                     | 6       | 0         |        | 21.47  | 21.66  | 21.56   |
| 1.4                                     | 1       | 0         | 16-QAM | 21.79  | 21.97  | 21.85   |
| 1.4                                     | 1       | 3         |        | 21.87  | 22.04  | 21.92   |
| 1.4                                     | 1       | 5         |        | 21.80  | 21.98  | 21.85   |
| 1.4                                     | 3       | 0         |        | 21.56  | 21.73  | 21.63   |
| 1.4                                     | 3       | 1         |        | 21.59  | 21.76  | 21.68   |
| 1.4                                     | 3       | 3         |        | 21.54  | 21.73  | 21.63   |
| 1.4                                     | 6       | 0         |        | 20.55  | 20.73  | 20.67   |
| 1.4                                     | 1       | 0         | 64-QAM | 20.62  | 20.86  | 20.76   |
| 1.4                                     | 1       | 3         |        | 20.68  | 20.90  | 20.79   |
| 1.4                                     | 1       | 5         |        | 20.56  | 20.83  | 20.74   |
| 1.4                                     | 3       | 0         |        | 20.65  | 20.85  | 20.76   |
| 1.4                                     | 3       | 1         |        | 20.72  | 20.90  | 20.79   |
| 1.4                                     | 3       | 3         |        | 20.68  | 20.84  | 20.72   |
| 1.4                                     | 6       | 0         |        | 19.49  | 19.66  | 19.59   |

**For IC**

| LTE Band 41 Maximum Average Power [dBm] |         |           |        |        |              |         |
|-----------------------------------------|---------|-----------|--------|--------|--------------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle       | Highest |
| 20                                      | 1       | 0         | QPSK   | 21.79  | <b>21.89</b> | 21.85   |
| 20                                      | 1       | 49        |        | 21.73  | <b>21.80</b> | 21.80   |
| 20                                      | 1       | 99        |        | 21.67  | 21.70        | 21.75   |
| 20                                      | 50      | 0         |        | 20.78  | 20.91        | 20.68   |
| 20                                      | 50      | 24        |        | 20.79  | 20.91        | 20.70   |
| 20                                      | 50      | 50        |        | 20.78  | 20.72        | 20.83   |
| 20                                      | 100     | 0         |        | 20.81  | 20.88        | 20.82   |
| 20                                      | 1       | 0         | 16-QAM | 20.93  | 21.05        | 21.03   |
| 20                                      | 1       | 49        |        | 20.86  | 20.95        | 20.78   |
| 20                                      | 1       | 99        |        | 20.83  | 20.80        | 20.80   |
| 20                                      | 50      | 0         |        | 19.85  | 19.94        | 19.91   |
| 20                                      | 50      | 24        |        | 19.86  | 19.92        | 19.79   |
| 20                                      | 50      | 50        |        | 19.80  | 19.78        | 19.70   |
| 20                                      | 100     | 0         |        |        | 19.91        | 19.82   |
| 20                                      | 1       | 0         | 64-QAM | 19.67  | 19.65        | 19.68   |
| 20                                      | 1       | 49        |        | 19.56  | 19.56        | 19.58   |
| 20                                      | 1       | 99        |        | 19.47  | 19.45        | 19.38   |
| 20                                      | 50      | 0         |        | 18.84  | 18.91        | 18.85   |
| 20                                      | 50      | 24        |        | 18.82  | 18.91        | 18.72   |
| 20                                      | 50      | 50        |        | 18.83  | 18.75        | 18.91   |
| 20                                      | 100     | 0         |        | 18.85  | 18.90        | 18.79   |
| 15                                      | 1       | 0         | QPSK   | 21.78  | 21.88        | 21.77   |
| 15                                      | 1       | 37        |        | 21.71  | <b>21.83</b> | 21.76   |
| 15                                      | 1       | 74        |        | 21.78  | 21.70        | 21.76   |
| 15                                      | 36      | 0         |        | 20.75  | 20.85        | 20.73   |
| 15                                      | 36      | 20        |        | 20.75  | 20.85        | 20.70   |
| 15                                      | 36      | 39        |        | 20.76  | 20.81        | 20.84   |
| 15                                      | 75      | 0         |        | 20.75  | 20.84        | 20.68   |
| 15                                      | 1       | 0         | 16-QAM | 20.90  | 21.02        | 20.98   |
| 15                                      | 1       | 37        |        | 20.81  | 21.00        | 20.80   |
| 15                                      | 1       | 74        |        | 20.82  | 20.71        | 20.89   |
| 15                                      | 36      | 0         |        | 19.77  | 19.85        | 19.85   |
| 15                                      | 36      | 20        |        | 19.80  | 19.86        | 19.86   |
| 15                                      | 36      | 39        |        | 19.72  | 19.79        | 19.62   |
| 15                                      | 75      | 0         |        | 19.80  | 19.87        | 19.79   |
| 15                                      | 1       | 0         | 64-QAM | 19.61  | 19.66        | 19.57   |
| 15                                      | 1       | 37        |        | 19.56  | 19.57        | 19.48   |
| 15                                      | 1       | 74        |        | 19.54  | 19.48        | 19.50   |
| 15                                      | 36      | 0         |        | 18.74  | 18.88        | 18.66   |
| 15                                      | 36      | 20        |        | 18.76  | 18.87        | 18.85   |
| 15                                      | 36      | 39        |        | 18.76  | 18.83        | 18.71   |
| 15                                      | 75      | 0         |        | 18.81  | 18.89        | 18.89   |



| LTE Band 41 Maximum Average Power [dBm] |         |           |        |              |        |         |
|-----------------------------------------|---------|-----------|--------|--------------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest       | Middle | Highest |
| 10                                      | 1       | 0         | QPSK   | 21.75        | 21.84  | 21.80   |
| 10                                      | 1       | 25        |        | 21.73        | 21.83  | 21.67   |
| 10                                      | 1       | 49        |        | <b>21.76</b> | 21.72  | 21.75   |
| 10                                      | 25      | 0         |        | 20.73        | 20.86  | 20.70   |
| 10                                      | 25      | 12        |        | 20.82        | 20.90  | 20.91   |
| 10                                      | 25      | 25        |        | 20.83        | 20.86  | 20.73   |
| 10                                      | 50      | 0         |        | 20.76        | 20.86  | 20.74   |
| 10                                      | 1       | 0         | 16-QAM | 20.85        | 20.98  | 20.87   |
| 10                                      | 1       | 25        |        | 20.91        | 20.99  | 20.97   |
| 10                                      | 1       | 49        |        | 20.86        | 20.78  | 20.96   |
| 10                                      | 25      | 0         |        | 19.83        | 19.91  | 19.75   |
| 10                                      | 25      | 12        |        | 19.84        | 19.92  | 19.90   |
| 10                                      | 25      | 25        |        | 19.82        | 19.86  | 19.76   |
| 10                                      | 50      | 0         |        | 19.85        | 19.94  | 19.78   |
| 10                                      | 1       | 0         | 64-QAM | 19.47        | 19.53  | 19.50   |
| 10                                      | 1       | 25        |        | 19.56        | 19.48  | 19.50   |
| 10                                      | 1       | 49        |        | 19.44        | 19.28  | 19.54   |
| 10                                      | 25      | 0         |        | 18.73        | 18.80  | 18.70   |
| 10                                      | 25      | 12        |        | 18.63        | 18.82  | 18.73   |
| 10                                      | 25      | 25        |        | 18.79        | 18.75  | 18.72   |
| 10                                      | 50      | 0         |        | 18.72        | 18.89  | 18.80   |
| 5                                       | 1       | 0         | QPSK   | <b>21.83</b> | 21.84  | 21.73   |
| 5                                       | 1       | 12        |        | 21.82        | 21.83  | 21.75   |
| 5                                       | 1       | 24        |        | 21.76        | 21.82  | 21.83   |
| 5                                       | 12      | 0         |        | 20.84        | 20.89  | 20.85   |
| 5                                       | 12      | 7         |        | 20.87        | 20.91  | 20.97   |
| 5                                       | 12      | 13        |        | 20.87        | 20.85  | 20.77   |
| 5                                       | 25      | 0         |        | 20.88        | 20.89  | 20.90   |
| 5                                       | 1       | 0         | 16-QAM | 20.94        | 20.91  | 20.89   |
| 5                                       | 1       | 12        |        | 20.95        | 20.85  | 20.92   |
| 5                                       | 1       | 24        |        | 20.97        | 20.94  | 20.91   |
| 5                                       | 12      | 0         |        | 19.88        | 19.91  | 19.98   |
| 5                                       | 12      | 7         |        | 19.90        | 19.89  | 19.83   |
| 5                                       | 12      | 13        |        | 19.85        | 19.89  | 19.91   |
| 5                                       | 25      | 0         |        | 19.90        | 19.89  | 19.86   |
| 5                                       | 1       | 0         | 64-QAM | 19.48        | 19.45  | 19.47   |
| 5                                       | 1       | 12        |        | 19.46        | 19.47  | 19.56   |
| 5                                       | 1       | 24        |        | 19.44        | 19.36  | 19.53   |
| 5                                       | 12      | 0         |        | 18.79        | 18.75  | 18.87   |
| 5                                       | 12      | 7         |        | 18.82        | 18.83  | 18.81   |
| 5                                       | 12      | 13        |        | 18.73        | 18.61  | 18.76   |
| 5                                       | 25      | 0         |        | 18.66        | 18.83  | 18.57   |



| LTE Band 7_CA Maximum Average Power [dBm] |         |           |         |           |        |        |        |         |
|-------------------------------------------|---------|-----------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                  | PCC     |           | SCC     |           | Mod    | Lowest | Middle | Highest |
|                                           | RB Size | RB Offset | RB Size | RB Offset |        |        |        |         |
| 20+20                                     | 0       | 0         | 1       | 99        | QPSK   | 22.14  | 22.25  | 22.17   |
| 20+20                                     | 1       | 0         | 0       | 0         |        | 22.38  | 22.49  | 22.48   |
| 20+20                                     | 100     | 0         | 0       | 0         |        | 21.30  | 21.13  | 21.27   |
| 20+20                                     | 100     | 0         | 100     | 0         |        | 21.08  | 20.93  | 20.90   |
| 20+20                                     | 1       | 0         | 1       | 99        |        | 14.77  | 14.72  | 14.59   |
| 20+20                                     | 1       | 0         | 1       | 0         |        | 18.54  | 18.48  | 18.36   |
| 20+20                                     | 1       | 99        | 1       | 0         |        | 22.97  | 22.99  | 22.80   |
| 20+20                                     | 100     | 0         | 1       | 99        |        | 19.66  | 19.76  | 19.83   |
| 20+20                                     | 0       | 0         | 1       | 99        | 16-QAM | 21.62  | 21.62  | 21.72   |
| 20+20                                     | 1       | 0         | 0       | 0         |        | 21.86  | 21.79  | 21.89   |
| 20+20                                     | 100     | 0         | 0       | 0         |        | 20.33  | 20.38  | 20.48   |
| 20+20                                     | 100     | 0         | 100     | 0         |        | 20.13  | 20.30  | 20.03   |
| 20+20                                     | 1       | 0         | 1       | 99        |        | 14.89  | 14.84  | 14.93   |
| 20+20                                     | 1       | 0         | 1       | 0         |        | 18.94  | 18.87  | 18.77   |
| 20+20                                     | 1       | 99        | 1       | 0         |        | 22.18  | 22.21  | 22.18   |
| 20+20                                     | 100     | 0         | 1       | 99        |        | 19.64  | 19.80  | 19.74   |
| 20+20                                     | 0       | 0         | 1       | 99        | 64-QAM | 20.70  | 20.56  | 20.82   |
| 20+20                                     | 1       | 0         | 0       | 0         |        | 20.78  | 20.77  | 20.92   |
| 20+20                                     | 100     | 0         | 0       | 0         |        | 19.32  | 19.30  | 19.36   |
| 20+20                                     | 100     | 0         | 100     | 0         |        | 20.14  | 20.31  | 20.14   |
| 20+20                                     | 1       | 0         | 1       | 99        |        | 14.93  | 15.08  | 14.87   |
| 20+20                                     | 1       | 0         | 1       | 0         |        | 19.05  | 18.85  | 18.89   |
| 20+20                                     | 1       | 99        | 1       | 0         |        | 20.26  | 20.16  | 20.13   |
| 20+20                                     | 100     | 0         | 1       | 99        |        | 19.64  | 19.65  | 19.55   |



| LTE Band 7_CA Maximum Average Power [dBm] |         |           |         |           |        |        |        |         |
|-------------------------------------------|---------|-----------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                  | PCC     |           | SCC     |           | Mod    | Lowest | Middle | Highest |
|                                           | RB Size | RB Offset | RB Size | RB Offset |        |        |        |         |
| 20+15                                     | 100     | 0         | 75      | 0         | QPSK   | 20.82  | 21.06  | 21.23   |
| 20+15                                     | 1       | 0         | 1       | 74        |        | 14.39  | 14.53  | 14.75   |
| 20+15                                     | 1       | 99        | 1       | 0         |        | 22.65  | 22.74  | 22.89   |
| 20+15                                     | 100     | 0         | 75      | 0         | 16-QAM | 19.79  | 20.04  | 20.24   |
| 20+15                                     | 1       | 0         | 1       | 74        |        | 14.46  | 14.61  | 14.68   |
| 20+15                                     | 1       | 99        | 1       | 0         |        | 21.81  | 21.95  | 22.23   |
| 20+15                                     | 100     | 0         | 75      | 0         | 64-QAM | 19.71  | 20.01  | 20.34   |
| 20+15                                     | 1       | 0         | 1       | 74        |        | 14.41  | 14.47  | 14.55   |
| 20+15                                     | 1       | 99        | 1       | 0         |        | 19.88  | 20.09  | 20.28   |
| 15+20                                     | 75      | 0         | 100     | 0         | QPSK   | 20.83  | 20.96  | 21.23   |
| 15+20                                     | 1       | 0         | 1       | 99        |        | 14.67  | 14.37  | 14.71   |
| 15+20                                     | 1       | 74        | 1       | 0         |        | 22.83  | 22.69  | 22.95   |
| 15+20                                     | 75      | 0         | 100     | 0         | 16-QAM | 19.87  | 19.98  | 20.23   |
| 15+20                                     | 1       | 0         | 1       | 99        |        | 14.64  | 14.60  | 14.52   |
| 15+20                                     | 1       | 74        | 1       | 0         |        | 22.19  | 21.92  | 22.07   |
| 15+20                                     | 75      | 0         | 100     | 0         | 64-QAM | 19.91  | 19.99  | 20.31   |
| 15+20                                     | 1       | 0         | 1       | 99        |        | 14.82  | 14.45  | 14.45   |
| 15+20                                     | 1       | 74        | 1       | 0         |        | 19.87  | 19.96  | 20.09   |
| 20+10                                     | 100     | 0         | 50      | 0         | QPSK   | 20.81  | 21.01  | 21.25   |
| 20+10                                     | 1       | 0         | 1       | 49        |        | 14.23  | 14.35  | 14.74   |
| 20+10                                     | 1       | 99        | 1       | 0         |        | 22.61  | 22.74  | 22.98   |
| 20+10                                     | 100     | 0         | 50      | 0         | 16-QAM | 19.77  | 19.86  | 20.05   |
| 20+10                                     | 1       | 0         | 1       | 49        |        | 14.26  | 14.60  | 14.49   |
| 20+10                                     | 1       | 99        | 1       | 0         |        | 21.61  | 21.81  | 22.09   |
| 20+10                                     | 100     | 0         | 50      | 0         | 64-QAM | 19.56  | 19.90  | 20.31   |
| 20+10                                     | 1       | 0         | 1       | 49        |        | 14.26  | 14.38  | 14.51   |
| 20+10                                     | 1       | 99        | 1       | 0         |        | 19.82  | 19.89  | 20.15   |
| 10+20                                     | 50      | 0         | 100     | 0         | QPSK   | 20.90  | 21.06  | 21.35   |
| 10+20                                     | 1       | 0         | 1       | 99        |        | 14.24  | 14.41  | 14.57   |
| 10+20                                     | 1       | 49        | 1       | 0         |        | 22.54  | 22.71  | 22.98   |
| 10+20                                     | 50      | 0         | 100     | 0         | 16-QAM | 19.63  | 19.93  | 20.17   |
| 10+20                                     | 1       | 0         | 1       | 99        |        | 14.35  | 14.58  | 14.62   |
| 10+20                                     | 1       | 49        | 1       | 0         |        | 21.62  | 21.83  | 22.03   |
| 10+20                                     | 50      | 0         | 100     | 0         | 64-QAM | 19.63  | 19.91  | 20.31   |
| 10+20                                     | 1       | 0         | 1       | 99        |        | 14.36  | 14.31  | 14.35   |
| 10+20                                     | 1       | 49        | 1       | 0         |        | 19.84  | 20.08  | 20.24   |
| 15+15                                     | 75      | 0         | 75      | 0         | QPSK   | 20.79  | 21.06  | 21.25   |
| 15+15                                     | 1       | 0         | 1       | 74        |        | 14.27  | 14.49  | 14.78   |
| 15+15                                     | 1       | 74        | 1       | 0         |        | 22.49  | 22.70  | 23.00   |
| 15+15                                     | 75      | 0         | 75      | 0         | 16-QAM | 19.71  | 19.91  | 20.04   |
| 15+15                                     | 1       | 0         | 1       | 74        |        | 14.32  | 14.54  | 14.52   |
| 15+15                                     | 1       | 74        | 1       | 0         |        | 21.62  | 21.82  | 22.13   |
| 15+15                                     | 75      | 0         | 75      | 0         | 64-QAM | 19.67  | 19.83  | 20.28   |
| 15+15                                     | 1       | 0         | 1       | 74        |        | 14.33  | 14.41  | 14.52   |
| 15+15                                     | 1       | 74        | 1       | 0         |        | 19.70  | 20.06  | 20.09   |
| 15+10                                     | 75      | 0         | 50      | 0         | QPSK   | 20.77  | 20.92  | 21.12   |
| 15+10                                     | 1       | 0         | 1       | 49        |        | 14.22  | 14.52  | 14.56   |
| 15+10                                     | 1       | 74        | 1       | 0         |        | 22.57  | 22.64  | 22.93   |
| 15+10                                     | 75      | 0         | 50      | 0         | 16-QAM | 19.73  | 19.85  | 20.13   |
| 15+10                                     | 1       | 0         | 1       | 49        |        | 14.32  | 14.47  | 14.58   |
| 15+10                                     | 1       | 74        | 1       | 0         |        | 21.75  | 21.89  | 22.15   |
| 15+10                                     | 75      | 0         | 50      | 0         | 64-QAM | 19.61  | 19.86  | 20.19   |
| 15+10                                     | 1       | 0         | 1       | 49        |        | 14.41  | 14.38  | 14.55   |
| 15+10                                     | 1       | 74        | 1       | 0         |        | 19.83  | 20.09  | 20.12   |



| LTE Band 41_CA Maximum Average Power [dBm] |         |           |         |           |        |        |        |         |
|--------------------------------------------|---------|-----------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                   | PCC     |           | SCC     |           | Mod    | Lowest | Middle | Highest |
|                                            | RB Size | RB Offset | RB Size | RB Offset |        |        |        |         |
| 20+20                                      | 0       | 0         | 1       | 99        | QPSK   | 22.36  | 22.51  | 22.26   |
| 20+20                                      | 1       | 0         | 0       | 0         |        | 22.50  | 22.38  | 22.57   |
| 20+20                                      | 100     | 0         | 0       | 0         |        | 21.09  | 20.94  | 21.26   |
| 20+20                                      | 100     | 0         | 100     | 0         |        | 20.89  | 20.81  | 20.98   |
| 20+20                                      | 1       | 0         | 1       | 99        |        | 14.87  | 14.68  | 15.06   |
| 20+20                                      | 1       | 0         | 1       | 0         |        | 18.88  | 18.88  | 19.04   |
| 20+20                                      | 1       | 99        | 1       | 0         |        | 22.86  | 22.98  | 22.73   |
| 20+20                                      | 100     | 0         | 1       | 99        |        | 19.67  | 19.70  | 19.79   |
| 20+20                                      | 0       | 0         | 1       | 99        | 16-QAM | 22.04  | 22.09  | 22.24   |
| 20+20                                      | 1       | 0         | 0       | 0         |        | 22.12  | 21.92  | 22.04   |
| 20+20                                      | 100     | 0         | 0       | 0         |        | 20.42  | 20.26  | 20.53   |
| 20+20                                      | 100     | 0         | 100     | 0         |        | 20.24  | 20.11  | 20.20   |
| 20+20                                      | 1       | 0         | 1       | 99        |        | 15.28  | 15.18  | 15.45   |
| 20+20                                      | 1       | 0         | 1       | 0         |        | 19.44  | 19.46  | 19.41   |
| 20+20                                      | 1       | 99        | 1       | 0         |        | 22.55  | 22.58  | 22.48   |
| 20+20                                      | 100     | 0         | 1       | 99        |        | 19.81  | 19.87  | 19.96   |
| 20+20                                      | 0       | 0         | 1       | 99        | 64-QAM | 20.88  | 20.72  | 20.71   |
| 20+20                                      | 1       | 0         | 0       | 0         |        | 20.97  | 20.81  | 20.88   |
| 20+20                                      | 100     | 0         | 0       | 0         |        | 19.44  | 19.50  | 19.47   |
| 20+20                                      | 100     | 0         | 100     | 0         |        | 20.13  | 20.16  | 20.24   |
| 20+20                                      | 1       | 0         | 1       | 99        |        | 14.67  | 14.80  | 14.83   |
| 20+20                                      | 1       | 0         | 1       | 0         |        | 19.15  | 19.30  | 19.08   |
| 20+20                                      | 1       | 99        | 1       | 0         |        | 20.15  | 20.32  | 20.10   |
| 20+20                                      | 100     | 0         | 1       | 99        |        | 19.65  | 19.77  | 19.65   |



| LTE Band 41_CA Maximum Average Power [dBm] |         |           |         |           |       |        |        |         |
|--------------------------------------------|---------|-----------|---------|-----------|-------|--------|--------|---------|
| BW [MHz]                                   | PCC     |           | SCC     |           | Mod   | Lowest | Middle | Highest |
|                                            | RB Size | RB Offset | RB Size | RB Offset |       |        |        |         |
| 20+15                                      | 100     | 0         | 75      | 0         | QPSK  | 20.87  | 21.13  | 20.80   |
| 20+15                                      | 1       | 0         | 1       | 74        |       | 14.56  | 14.62  | 14.62   |
| 20+15                                      | 1       | 99        | 1       | 0         |       | 22.62  | 22.82  | 22.48   |
| 20+15                                      | 100     | 0         | 75      | 0         | 16QAM | 19.71  | 20.09  | 20.07   |
| 20+15                                      | 1       | 0         | 1       | 74        |       | 15.02  | 15.17  | 14.96   |
| 20+15                                      | 1       | 99        | 1       | 0         |       | 22.21  | 22.41  | 22.03   |
| 20+15                                      | 100     | 0         | 75      | 0         | 64QAM | 19.98  | 20.21  | 20.06   |
| 20+15                                      | 1       | 0         | 1       | 74        |       | 14.83  | 14.96  | 14.79   |
| 20+15                                      | 1       | 99        | 1       | 0         |       | 19.88  | 20.38  | 20.04   |
| 15+20                                      | 75      | 0         | 100     | 0         | QPSK  | 20.79  | 20.97  | 20.67   |
| 15+20                                      | 1       | 0         | 1       | 99        |       | 14.39  | 14.44  | 14.42   |
| 15+20                                      | 1       | 74        | 1       | 0         |       | 22.46  | 22.66  | 22.44   |
| 15+20                                      | 75      | 0         | 100     | 0         | 16QAM | 19.62  | 20.02  | 20.00   |
| 15+20                                      | 1       | 0         | 1       | 99        |       | 14.99  | 15.01  | 14.90   |
| 15+20                                      | 1       | 74        | 1       | 0         |       | 22.13  | 22.31  | 21.98   |
| 15+20                                      | 75      | 0         | 100     | 0         | 64QAM | 19.78  | 20.13  | 19.88   |
| 15+20                                      | 1       | 0         | 1       | 99        |       | 14.67  | 14.88  | 14.79   |
| 15+20                                      | 1       | 74        | 1       | 0         |       | 19.79  | 20.23  | 19.85   |
| 20+10                                      | 100     | 0         | 50      | 0         | QPSK  | 20.76  | 20.96  | 20.65   |
| 20+10                                      | 1       | 0         | 1       | 49        |       | 14.56  | 14.50  | 14.52   |
| 20+10                                      | 1       | 99        | 1       | 0         |       | 22.43  | 22.79  | 22.32   |
| 20+10                                      | 100     | 0         | 50      | 0         | 16QAM | 19.60  | 19.90  | 19.96   |
| 20+10                                      | 1       | 0         | 1       | 49        |       | 14.88  | 15.10  | 14.96   |
| 20+10                                      | 1       | 99        | 1       | 0         |       | 22.12  | 22.30  | 21.91   |
| 20+10                                      | 100     | 0         | 50      | 0         | 64QAM | 19.83  | 20.05  | 20.02   |
| 20+10                                      | 1       | 0         | 1       | 49        |       | 14.81  | 14.95  | 14.65   |
| 20+10                                      | 1       | 99        | 1       | 0         |       | 19.74  | 20.20  | 19.84   |
| 10+20                                      | 50      | 0         | 100     | 0         | QPSK  | 20.78  | 20.94  | 20.74   |
| 10+20                                      | 1       | 0         | 1       | 99        |       | 14.38  | 14.57  | 14.58   |
| 10+20                                      | 1       | 49        | 1       | 0         |       | 22.58  | 22.66  | 22.39   |
| 10+20                                      | 50      | 0         | 100     | 0         | 16QAM | 19.59  | 20.04  | 20.02   |
| 10+20                                      | 1       | 0         | 1       | 99        |       | 14.98  | 15.02  | 14.89   |
| 10+20                                      | 1       | 49        | 1       | 0         |       | 22.18  | 22.41  | 21.93   |
| 10+20                                      | 50      | 0         | 100     | 0         | 64QAM | 19.98  | 20.01  | 19.98   |
| 10+20                                      | 1       | 0         | 1       | 99        |       | 14.82  | 14.95  | 14.68   |
| 10+20                                      | 1       | 49        | 1       | 0         |       | 19.75  | 20.34  | 19.85   |
| 20+5                                       | 100     | 0         | 25      | 0         | QPSK  | 20.67  | 21.02  | 20.65   |
| 20+5                                       | 1       | 0         | 1       | 24        |       | 14.38  | 14.56  | 14.58   |
| 20+5                                       | 1       | 99        | 1       | 0         |       | 22.49  | 22.63  | 22.47   |
| 20+5                                       | 100     | 0         | 25      | 0         | 16QAM | 19.71  | 20.04  | 20.04   |
| 20+5                                       | 1       | 0         | 1       | 24        |       | 15.00  | 15.05  | 14.90   |
| 20+5                                       | 1       | 99        | 1       | 0         |       | 22.07  | 22.36  | 21.87   |
| 20+5                                       | 100     | 0         | 25      | 0         | 64QAM | 19.83  | 20.06  | 19.86   |
| 20+5                                       | 1       | 0         | 1       | 24        |       | 14.75  | 14.93  | 14.60   |
| 20+5                                       | 1       | 99        | 1       | 0         |       | 19.68  | 20.21  | 19.98   |

|       |    |    |     |    |       |       |       |       |
|-------|----|----|-----|----|-------|-------|-------|-------|
| 5+20  | 25 | 0  | 100 | 0  | QPSK  | 20.86 | 21.13 | 20.71 |
| 5+20  | 1  | 0  | 1   | 99 |       | 14.43 | 14.44 | 14.51 |
| 5+20  | 1  | 24 | 1   | 0  |       | 22.45 | 22.72 | 22.43 |
| 5+20  | 25 | 0  | 100 | 0  | 16QAM | 19.57 | 19.95 | 20.00 |
| 5+20  | 1  | 0  | 1   | 99 |       | 14.97 | 15.16 | 14.84 |
| 5+20  | 1  | 24 | 1   | 0  |       | 22.12 | 22.26 | 22.03 |
| 5+20  | 25 | 0  | 100 | 0  | 64QAM | 19.97 | 20.01 | 19.99 |
| 5+20  | 1  | 0  | 1   | 99 |       | 14.80 | 14.80 | 14.79 |
| 5+20  | 1  | 24 | 1   | 0  |       | 19.82 | 20.36 | 19.99 |
| 15+15 | 75 | 0  | 75  | 0  | QPSK  | 20.86 | 21.06 | 20.65 |
| 15+15 | 1  | 0  | 1   | 74 |       | 14.40 | 14.50 | 14.44 |
| 15+15 | 1  | 74 | 1   | 0  |       | 22.58 | 22.70 | 22.35 |
| 15+15 | 75 | 0  | 75  | 0  | 16QAM | 19.55 | 19.93 | 19.89 |
| 15+15 | 1  | 0  | 1   | 74 |       | 14.85 | 15.08 | 14.90 |
| 15+15 | 1  | 74 | 1   | 0  |       | 22.15 | 22.31 | 22.01 |
| 15+15 | 75 | 0  | 75  | 0  | 64QAM | 19.89 | 20.18 | 19.91 |
| 15+15 | 1  | 0  | 1   | 74 |       | 14.63 | 14.84 | 14.61 |
| 15+15 | 1  | 74 | 1   | 0  |       | 19.84 | 20.35 | 19.93 |
| 15+10 | 75 | 0  | 50  | 0  | QPSK  | 20.77 | 20.94 | 20.71 |
| 15+10 | 1  | 0  | 1   | 49 |       | 14.23 | 14.32 | 14.50 |
| 15+10 | 1  | 74 | 1   | 0  |       | 22.34 | 22.71 | 22.33 |
| 15+10 | 75 | 0  | 50  | 0  | 16QAM | 19.45 | 19.95 | 19.87 |
| 15+10 | 1  | 0  | 1   | 49 |       | 14.81 | 15.04 | 14.81 |
| 15+10 | 1  | 74 | 1   | 0  |       | 22.04 | 22.18 | 21.89 |
| 15+10 | 75 | 0  | 50  | 0  | 64QAM | 19.84 | 20.00 | 19.81 |
| 15+10 | 1  | 0  | 1   | 49 |       | 14.64 | 14.79 | 14.78 |
| 15+10 | 1  | 74 | 1   | 0  |       | 19.79 | 20.26 | 19.88 |
| 10+15 | 50 | 0  | 75  | 0  | QPSK  | 20.76 | 21.12 | 20.65 |
| 10+15 | 1  | 49 | 1   | 0  |       | 14.38 | 14.29 | 14.31 |
| 10+15 | 1  | 0  | 1   | 74 |       | 22.43 | 22.64 | 22.23 |
| 10+15 | 50 | 0  | 75  | 0  | 16QAM | 19.40 | 19.89 | 19.93 |
| 10+15 | 1  | 49 | 1   | 0  |       | 14.82 | 15.15 | 14.66 |
| 10+15 | 1  | 0  | 1   | 74 |       | 22.12 | 22.07 | 22.03 |
| 10+15 | 50 | 0  | 75  | 0  | 64QAM | 19.97 | 19.86 | 19.97 |
| 10+15 | 1  | 49 | 1   | 0  |       | 14.78 | 14.74 | 14.69 |
| 10+15 | 1  | 0  | 1   | 74 |       | 19.77 | 20.36 | 19.90 |



For IC

| LTE Band 41_CA Maximum Average Power [dBm] |         |           |         |           |        |        |        |         |
|--------------------------------------------|---------|-----------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                   | PCC     |           | SCC     |           | Mod    | Lowest | Middle | Highest |
|                                            | RB Size | RB Offset | RB Size | RB Offset |        |        |        |         |
| 20+20                                      | 0       | 0         | 1       | 99        | QPSK   | 22.35  | 22.51  | 22.26   |
| 20+20                                      | 1       | 0         | 0       | 0         |        | 22.49  | 22.38  | 22.57   |
| 20+20                                      | 100     | 0         | 0       | 0         |        | 20.99  | 20.94  | 21.26   |
| 20+20                                      | 100     | 0         | 100     | 0         |        | 20.81  | 20.81  | 20.98   |
| 20+20                                      | 1       | 0         | 1       | 99        |        | 14.87  | 14.68  | 15.06   |
| 20+20                                      | 1       | 0         | 1       | 0         |        | 18.82  | 18.88  | 19.04   |
| 20+20                                      | 1       | 99        | 1       | 0         |        | 22.85  | 22.98  | 22.73   |
| 20+20                                      | 100     | 0         | 1       | 99        |        | 19.61  | 19.70  | 19.79   |
| 20+20                                      | 0       | 0         | 1       | 99        | 16-QAM | 22.03  | 22.09  | 22.24   |
| 20+20                                      | 1       | 0         | 0       | 0         |        | 22.12  | 21.92  | 22.04   |
| 20+20                                      | 100     | 0         | 0       | 0         |        | 20.39  | 20.26  | 20.53   |
| 20+20                                      | 100     | 0         | 100     | 0         |        | 20.16  | 20.11  | 20.20   |
| 20+20                                      | 1       | 0         | 1       | 99        |        | 15.21  | 15.18  | 15.45   |
| 20+20                                      | 1       | 0         | 1       | 0         |        | 19.37  | 19.46  | 19.41   |
| 20+20                                      | 1       | 99        | 1       | 0         |        | 22.46  | 22.58  | 22.48   |
| 20+20                                      | 100     | 0         | 1       | 99        |        | 19.77  | 19.87  | 19.96   |
| 20+20                                      | 0       | 0         | 1       | 99        | 64-QAM | 20.80  | 20.72  | 20.71   |
| 20+20                                      | 1       | 0         | 0       | 0         |        | 20.97  | 20.81  | 20.88   |
| 20+20                                      | 100     | 0         | 0       | 0         |        | 19.36  | 19.50  | 19.47   |
| 20+20                                      | 100     | 0         | 100     | 0         |        | 20.04  | 20.16  | 20.24   |
| 20+20                                      | 1       | 0         | 1       | 99        |        | 14.67  | 14.80  | 14.83   |
| 20+20                                      | 1       | 0         | 1       | 0         |        | 19.11  | 19.30  | 19.08   |
| 20+20                                      | 1       | 99        | 1       | 0         |        | 20.06  | 20.32  | 20.10   |
| 20+20                                      | 100     | 0         | 1       | 99        |        | 19.57  | 19.77  | 19.65   |



| LTE Band 41_CA Maximum Average Power [dBm] |         |           |         |           |       |        |        |         |
|--------------------------------------------|---------|-----------|---------|-----------|-------|--------|--------|---------|
| BW [MHz]                                   | PCC     |           | SCC     |           | Mod   | Lowest | Middle | Highest |
|                                            | RB Size | RB Offset | RB Size | RB Offset |       |        |        |         |
| 20+15                                      | 100     | 0         | 75      | 0         | QPSK  | 20.77  | 21.13  | 20.80   |
| 20+15                                      | 1       | 0         | 1       | 74        |       | 14.50  | 14.62  | 14.62   |
| 20+15                                      | 1       | 99        | 1       | 0         |       | 22.61  | 22.82  | 22.48   |
| 20+15                                      | 100     | 0         | 75      | 0         | 16QAM | 19.70  | 20.09  | 20.07   |
| 20+15                                      | 1       | 0         | 1       | 74        |       | 14.97  | 15.17  | 14.96   |
| 20+15                                      | 1       | 99        | 1       | 0         |       | 22.11  | 22.41  | 22.03   |
| 20+15                                      | 100     | 0         | 75      | 0         | 64QAM | 19.95  | 20.21  | 20.06   |
| 20+15                                      | 1       | 0         | 1       | 74        |       | 14.82  | 14.96  | 14.79   |
| 20+15                                      | 1       | 99        | 1       | 0         |       | 19.80  | 20.38  | 20.04   |
| 15+20                                      | 75      | 0         | 100     | 0         | QPSK  | 20.72  | 20.97  | 20.67   |
| 15+20                                      | 1       | 0         | 1       | 99        |       | 14.37  | 14.44  | 14.42   |
| 15+20                                      | 1       | 74        | 1       | 0         |       | 22.45  | 22.66  | 22.44   |
| 15+20                                      | 75      | 0         | 100     | 0         | 16QAM | 19.59  | 20.02  | 20.00   |
| 15+20                                      | 1       | 0         | 1       | 99        |       | 14.99  | 15.01  | 14.90   |
| 15+20                                      | 1       | 74        | 1       | 0         |       | 22.12  | 22.31  | 21.98   |
| 15+20                                      | 75      | 0         | 100     | 0         | 64QAM | 19.75  | 20.13  | 19.88   |
| 15+20                                      | 1       | 0         | 1       | 99        |       | 14.58  | 14.88  | 14.79   |
| 15+20                                      | 1       | 74        | 1       | 0         |       | 19.70  | 20.23  | 19.85   |
| 20+10                                      | 100     | 0         | 50      | 0         | QPSK  | 20.68  | 20.96  | 20.65   |
| 20+10                                      | 1       | 0         | 1       | 49        |       | 14.53  | 14.50  | 14.52   |
| 20+10                                      | 1       | 99        | 1       | 0         |       | 22.41  | 22.79  | 22.32   |
| 20+10                                      | 100     | 0         | 50      | 0         | 16QAM | 19.60  | 19.90  | 19.96   |
| 20+10                                      | 1       | 0         | 1       | 49        |       | 14.87  | 15.10  | 14.96   |
| 20+10                                      | 1       | 99        | 1       | 0         |       | 22.04  | 22.30  | 21.91   |
| 20+10                                      | 100     | 0         | 50      | 0         | 64QAM | 19.80  | 20.05  | 20.02   |
| 20+10                                      | 1       | 0         | 1       | 49        |       | 14.81  | 14.95  | 14.65   |
| 20+10                                      | 1       | 99        | 1       | 0         |       | 19.69  | 20.20  | 19.84   |
| 10+20                                      | 50      | 0         | 100     | 0         | QPSK  | 20.73  | 20.94  | 20.74   |
| 10+20                                      | 1       | 0         | 1       | 99        |       | 14.36  | 14.57  | 14.58   |
| 10+20                                      | 1       | 49        | 1       | 0         |       | 22.51  | 22.66  | 22.39   |
| 10+20                                      | 50      | 0         | 100     | 0         | 16QAM | 19.52  | 20.04  | 20.02   |
| 10+20                                      | 1       | 0         | 1       | 99        |       | 14.97  | 15.02  | 14.89   |
| 10+20                                      | 1       | 49        | 1       | 0         |       | 22.16  | 22.41  | 21.93   |
| 10+20                                      | 50      | 0         | 100     | 0         | 64QAM | 19.88  | 20.01  | 19.98   |
| 10+20                                      | 1       | 0         | 1       | 99        |       | 14.76  | 14.95  | 14.68   |
| 10+20                                      | 1       | 49        | 1       | 0         |       | 19.68  | 20.34  | 19.85   |
| 20+5                                       | 100     | 0         | 25      | 0         | QPSK  | 20.64  | 21.02  | 20.65   |
| 20+5                                       | 1       | 0         | 1       | 24        |       | 14.34  | 14.56  | 14.58   |
| 20+5                                       | 1       | 99        | 1       | 0         |       | 22.43  | 22.63  | 22.47   |
| 20+5                                       | 100     | 0         | 25      | 0         | 16QAM | 19.69  | 20.04  | 20.04   |
| 20+5                                       | 1       | 0         | 1       | 24        |       | 14.97  | 15.05  | 14.90   |
| 20+5                                       | 1       | 99        | 1       | 0         |       | 22.05  | 22.36  | 21.87   |
| 20+5                                       | 100     | 0         | 25      | 0         | 64QAM | 19.82  | 20.06  | 19.86   |
| 20+5                                       | 1       | 0         | 1       | 24        |       | 14.71  | 14.93  | 14.60   |
| 20+5                                       | 1       | 99        | 1       | 0         |       | 19.67  | 20.21  | 19.98   |

|       |    |    |     |    |       |              |              |       |
|-------|----|----|-----|----|-------|--------------|--------------|-------|
| 5+20  | 25 | 0  | 100 | 0  | QPSK  | 20.78        | 21.13        | 20.71 |
| 5+20  | 1  | 0  | 1   | 99 |       | 14.34        | 14.44        | 14.51 |
| 5+20  | 1  | 24 | 1   | 0  |       | 22.44        | <b>22.72</b> | 22.43 |
| 5+20  | 25 | 0  | 100 | 0  | 16QAM | 19.53        | 19.95        | 20.00 |
| 5+20  | 1  | 0  | 1   | 99 |       | 14.97        | 15.16        | 14.84 |
| 5+20  | 1  | 24 | 1   | 0  |       | 22.08        | <b>22.26</b> | 22.03 |
| 5+20  | 25 | 0  | 100 | 0  | 64QAM | 19.87        | 20.01        | 19.99 |
| 5+20  | 1  | 0  | 1   | 99 |       | 14.80        | 14.80        | 14.79 |
| 5+20  | 1  | 24 | 1   | 0  |       | 19.72        | <b>20.36</b> | 19.99 |
| 15+15 | 75 | 0  | 75  | 0  | QPSK  | 20.77        | 21.06        | 20.65 |
| 15+15 | 1  | 0  | 1   | 74 |       | 14.40        | 14.50        | 14.44 |
| 15+15 | 1  | 74 | 1   | 0  |       | 22.52        | <b>22.70</b> | 22.35 |
| 15+15 | 75 | 0  | 75  | 0  | 16QAM | 19.53        | 19.93        | 19.89 |
| 15+15 | 1  | 0  | 1   | 74 |       | 14.83        | 15.08        | 14.90 |
| 15+15 | 1  | 74 | 1   | 0  |       | 22.05        | <b>22.31</b> | 22.01 |
| 15+15 | 75 | 0  | 75  | 0  | 64QAM | 19.88        | 20.18        | 19.91 |
| 15+15 | 1  | 0  | 1   | 74 |       | 14.57        | 14.84        | 14.61 |
| 15+15 | 1  | 74 | 1   | 0  |       | 19.75        | <b>20.35</b> | 19.93 |
| 15+10 | 75 | 0  | 50  | 0  | QPSK  | 20.72        | 20.94        | 20.71 |
| 15+10 | 1  | 0  | 1   | 49 |       | 14.20        | 14.32        | 14.50 |
| 15+10 | 1  | 74 | 1   | 0  |       | 22.24        | <b>22.71</b> | 22.33 |
| 15+10 | 75 | 0  | 50  | 0  | 16QAM | 19.38        | 19.95        | 19.87 |
| 15+10 | 1  | 0  | 1   | 49 |       | 14.79        | 15.04        | 14.81 |
| 15+10 | 1  | 74 | 1   | 0  |       | 22.02        | <b>22.18</b> | 21.89 |
| 15+10 | 75 | 0  | 50  | 0  | 64QAM | 19.76        | 20.00        | 19.81 |
| 15+10 | 1  | 0  | 1   | 49 |       | 14.54        | 14.79        | 14.78 |
| 15+10 | 1  | 74 | 1   | 0  |       | 19.78        | <b>20.26</b> | 19.88 |
| 10+15 | 50 | 0  | 75  | 0  | QPSK  | 20.70        | 21.12        | 20.65 |
| 10+15 | 1  | 49 | 1   | 0  |       | 14.33        | 14.29        | 14.31 |
| 10+15 | 1  | 0  | 1   | 74 |       | 22.39        | <b>22.64</b> | 22.23 |
| 10+15 | 50 | 0  | 75  | 0  | 16QAM | 19.36        | 19.89        | 19.93 |
| 10+15 | 1  | 49 | 1   | 0  |       | 14.80        | 15.15        | 14.66 |
| 10+15 | 1  | 0  | 1   | 74 |       | <b>22.11</b> | 22.07        | 22.03 |
| 10+15 | 50 | 0  | 75  | 0  | 64QAM | 19.94        | 19.86        | 19.97 |
| 10+15 | 1  | 49 | 1   | 0  |       | 14.77        | 14.74        | 14.69 |
| 10+15 | 1  | 0  | 1   | 74 |       | 19.72        | <b>20.36</b> | 19.90 |



## LTE Band 2

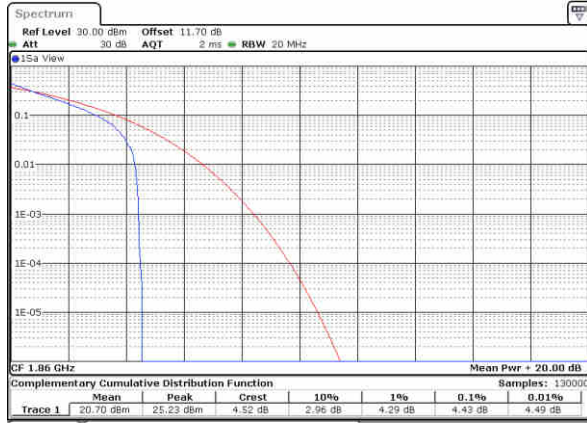
### Peak-to-Average Ratio

| Mode       | LTE Band 2 / 20MHz |         |       |         |             |
|------------|--------------------|---------|-------|---------|-------------|
| Mod.       | QPSK               |         | 16QAM |         | Limit: 13dB |
| RB Size    | 1RB                | Full RB | 1RB   | Full RB | Result      |
| Lowest CH  | 4.43               | 5.07    | 5.01  | 6.14    | PASS        |
| Middle CH  | 4.9                | 5.25    | 5.83  | 6.23    |             |
| Highest CH | 4.64               | 5.16    | 5.65  | 6.2     |             |
| Mode       | LTE Band 2 / 20MHz |         |       |         |             |
| Mod.       | 64QAM              |         |       |         | Limit: 13dB |
| RB Size    | 1RB                | Full RB |       |         | Result      |
| Lowest CH  | 6.64               | 6.52    |       |         | PASS        |
| Middle CH  | 6.78               | 6.64    |       |         |             |
| Highest CH | 6.32               | 6.58    |       |         |             |

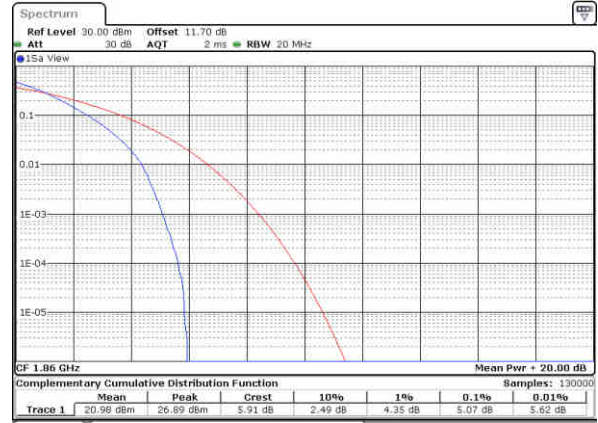


## LTE Band 2 / 20MHz / QPSK

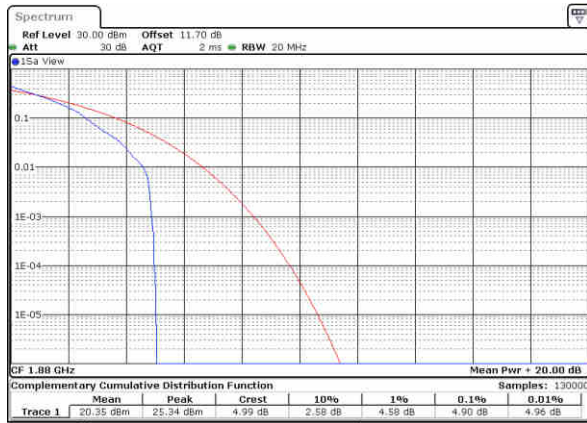
## Lowest Channel / 1RB



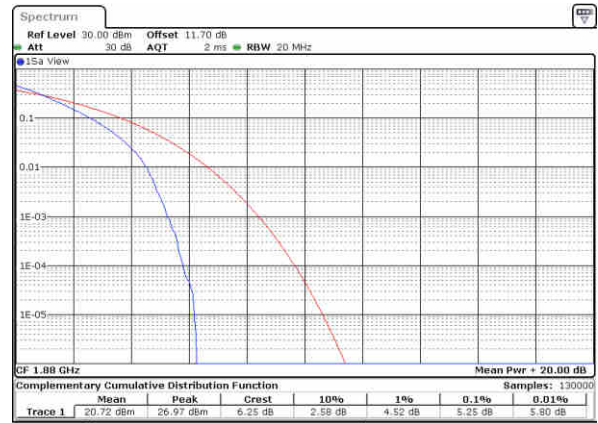
## Lowest Channel / Full RB



## Middle Channel / 1RB



## Middle Channel / Full RB

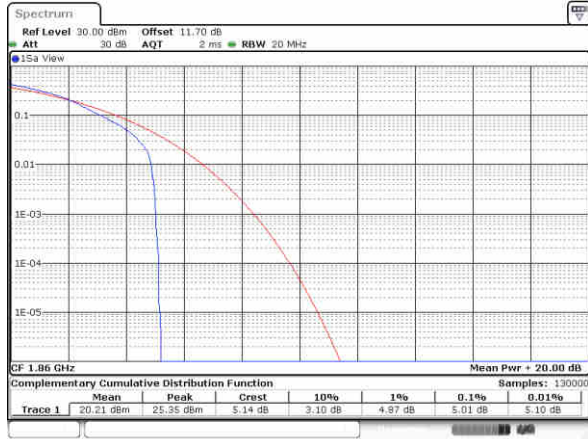
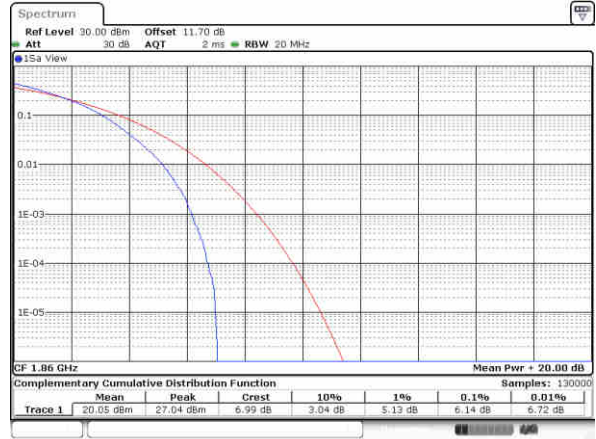
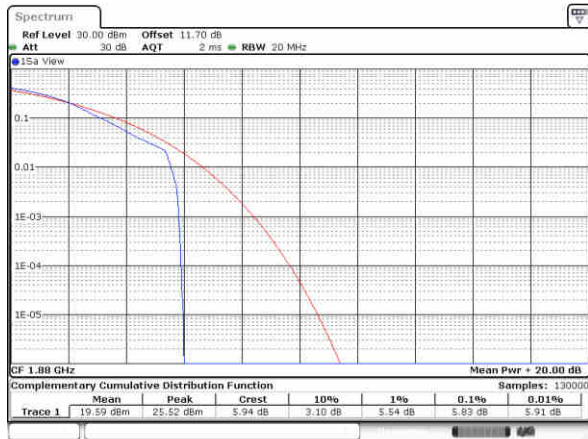
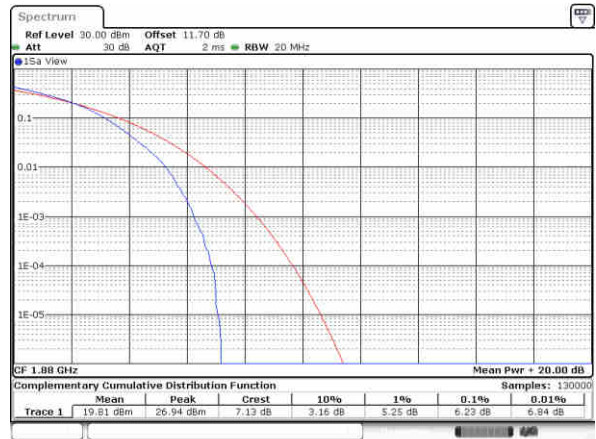
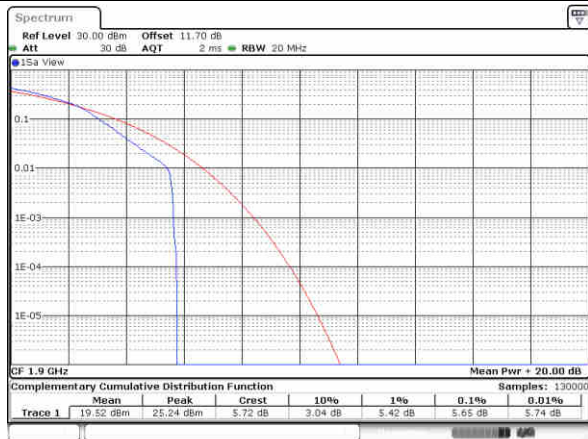
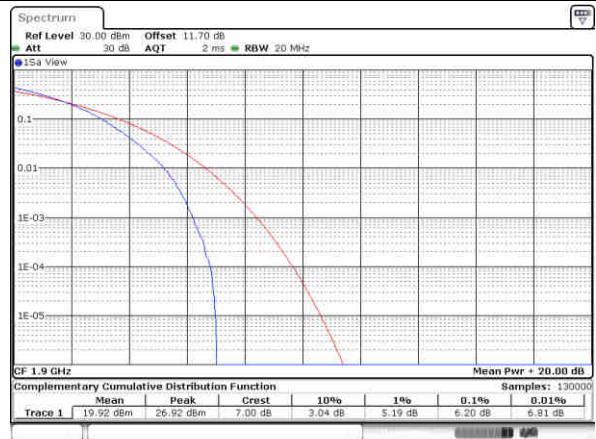


## Highest Channel / 1RB



## Highest Channel / Full RB

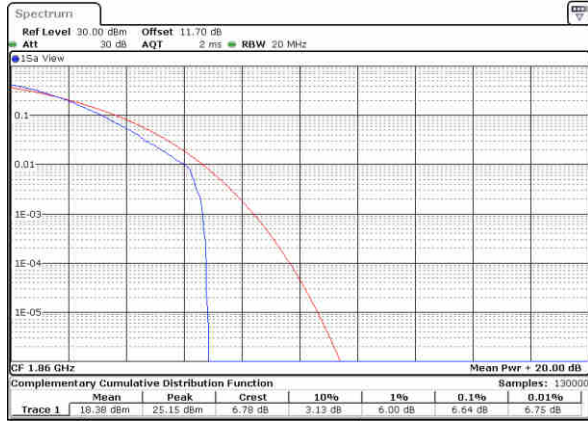


**LTE Band 2 / 20MHz / 16QAM**
**Lowest Channel / 1RB**

**Lowest Channel / Full RB**

**Middle Channel / 1RB**

**Middle Channel / Full RB**

**Highest Channel / 1RB**

**Highest Channel / Full RB**


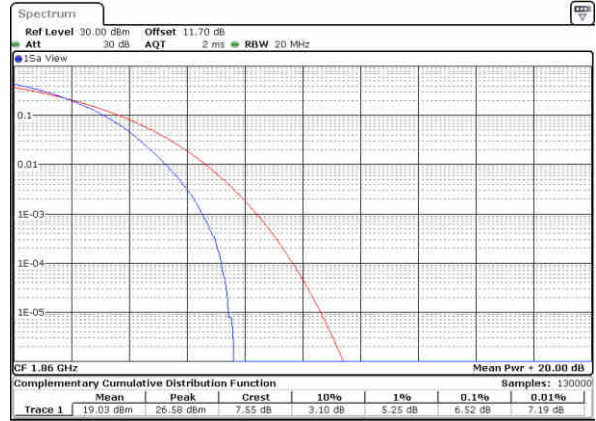


## LTE Band 2 / 20MHz / 64QAM

## Lowest Channel / 1RB



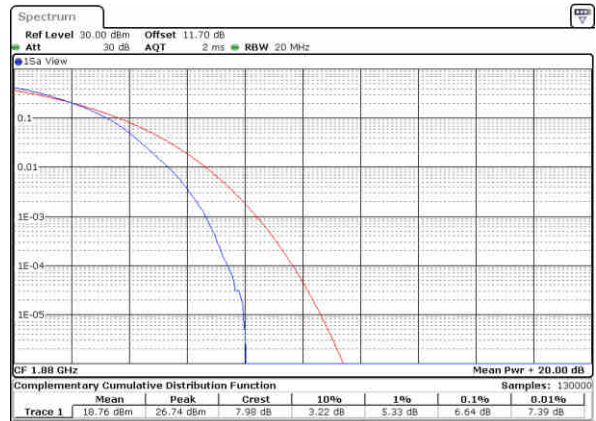
## Lowest Channel / Full RB



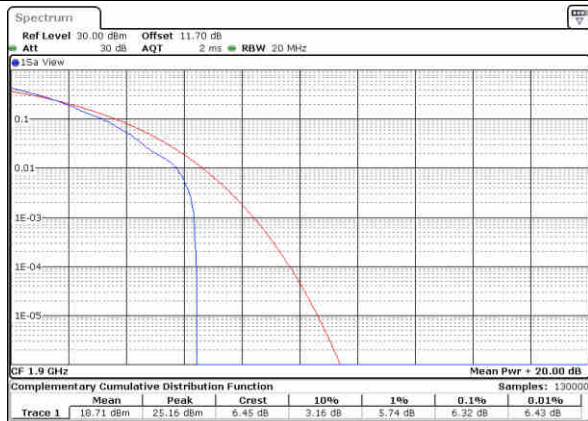
## Middle Channel / 1RB



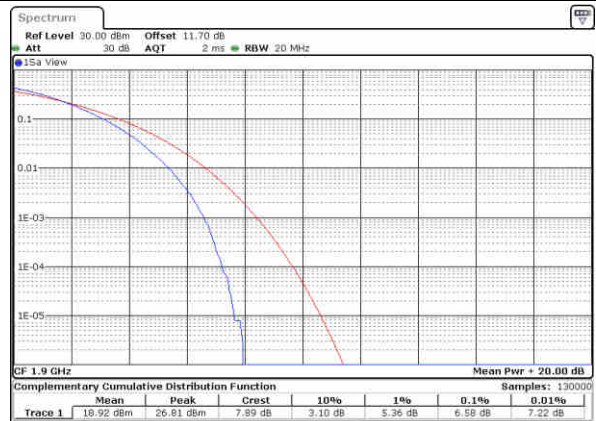
## Middle Channel / Full RB



## Highest Channel / 1RB



## Highest Channel / Full RB



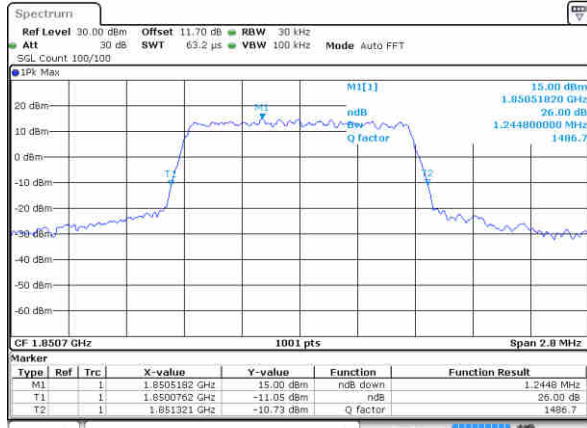
**26dB Bandwidth**

| Mode       | LTE Band 2 : 26dB BW(MHz) |       |       |       |       |       |       |       |       |       |       |       |
|------------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 1.4MHz                    |       | 3MHz  |       | 5MHz  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                      | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | 1.25                      | 1.23  | 3.02  | 3.03  | 4.97  | 4.99  | 9.79  | 9.65  | 14.12 | 14.21 | 20.14 | 20.22 |
| Middle CH  | 1.23                      | 1.23  | 3.05  | 3.02  | 4.87  | 4.92  | 9.69  | 9.89  | 14.45 | 14.36 | 20.10 | 20.22 |
| Highest CH | 1.23                      | 1.23  | 3.06  | 3.06  | 4.94  | 4.87  | 9.65  | 9.83  | 14.66 | 14.36 | 20.18 | 20.14 |
| Mode       | LTE Band 2 : 26dB BW(MHz) |       |       |       |       |       |       |       |       |       |       |       |
| BW         | 1.4MHz                    |       | 3MHz  |       | 5MHz  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | 64QAM                     |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       |
| Lowest CH  | 1.23                      | -     | 3.03  | -     | 4.91  | -     | 9.81  | -     | 14.54 | -     | 20.18 | -     |
| Middle CH  | 1.23                      | -     | 3     | -     | 4.91  | -     | 9.83  | -     | 14.54 | -     | 20.22 | -     |
| Highest CH | 1.23                      | -     | 3.01  | -     | 4.86  | -     | 9.89  | -     | 14.21 | -     | 20.06 | -     |



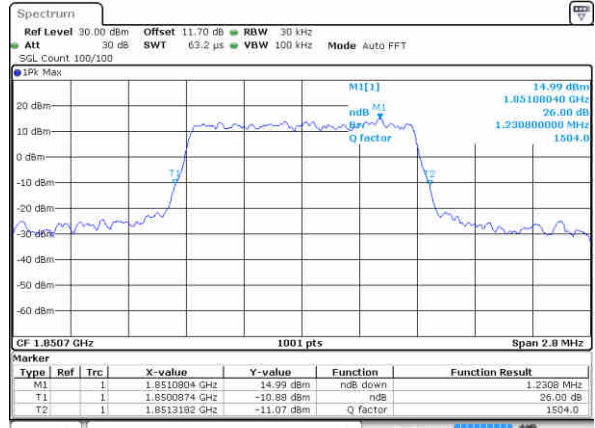
## LTE Band 2

## Lowest Channel / 1.4MHz / QPSK



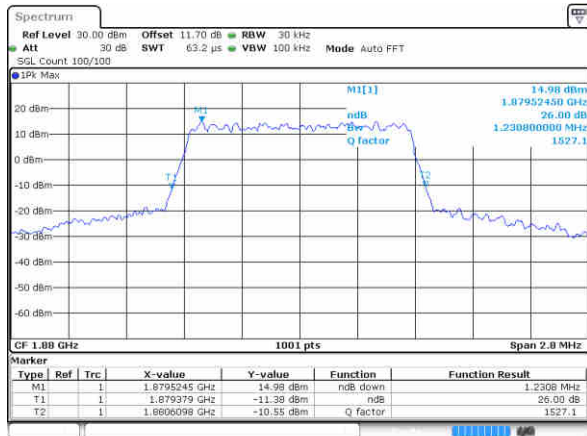
Date: 30 SEP 2017 17:52:37

## Lowest Channel / 1.4MHz / 16QAM



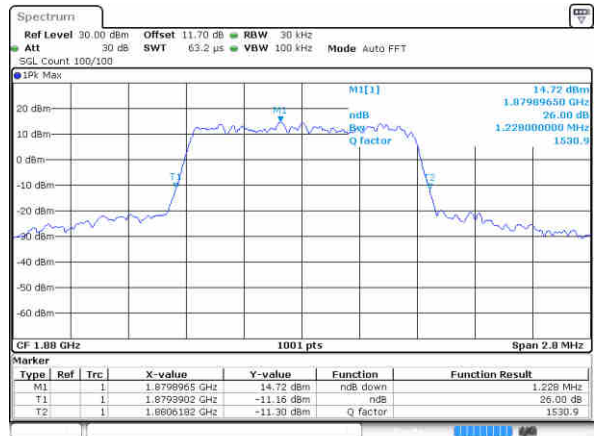
Date: 30 SEP 2017 17:52:47

## Middle Channel / 1.4MHz / QPSK



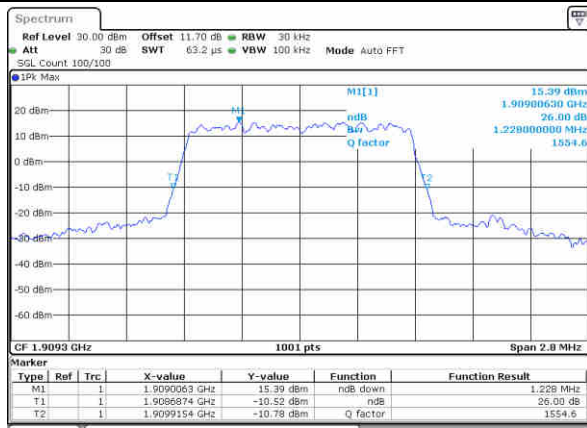
Date: 30 SEP 2017 17:59:40

## Middle Channel / 1.4MHz / 16QAM



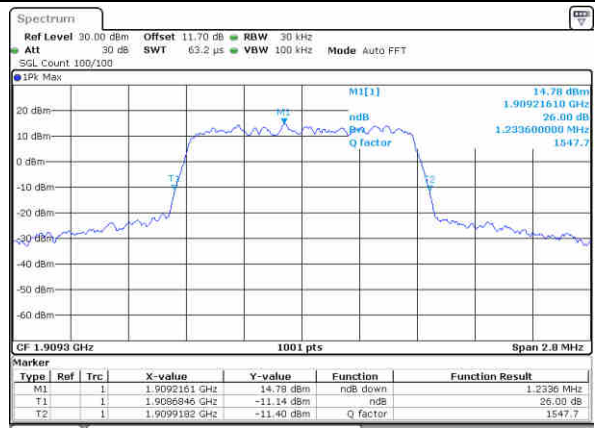
Date: 30 SEP 2017 17:59:50

## Highest Channel / 1.4MHz / QPSK



Date: 30 SEP 2017 18:02:08

## Highest Channel / 1.4MHz / 16QAM

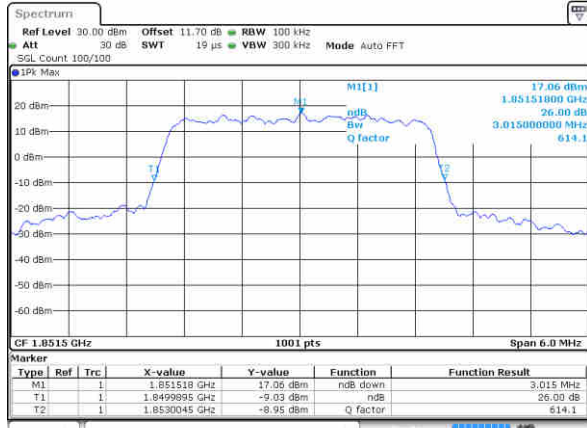


Date: 30 SEP 2017 18:02:18



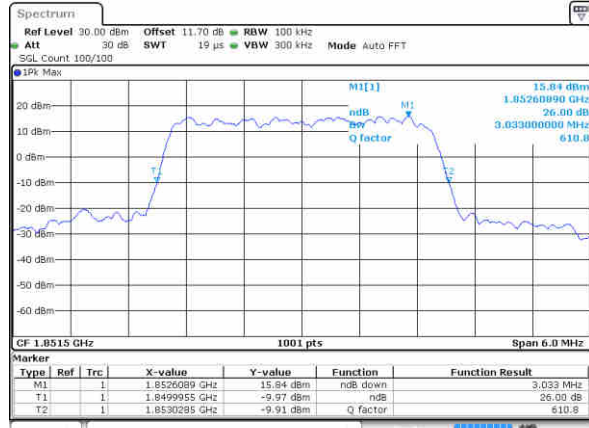
## LTE Band 2

## Lowest Channel / 3MHz / QPSK



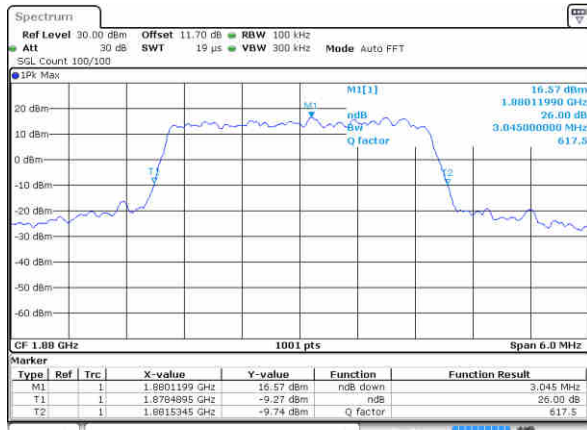
Date: 30 SEP 2017 15:40:39

## Lowest Channel / 3MHz / 16QAM



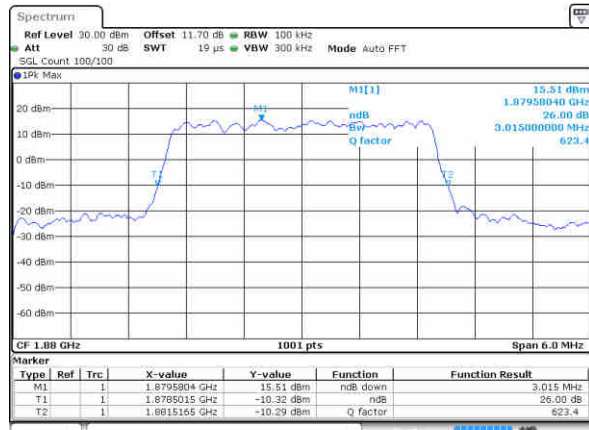
Date: 30 SEP 2017 15:40:49

## Middle Channel / 3MHz / QPSK



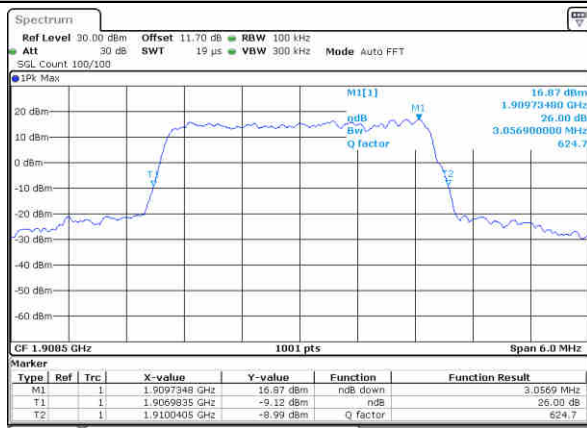
Date: 30 SEP 2017 15:47:42

## Middle Channel / 3MHz / 16QAM



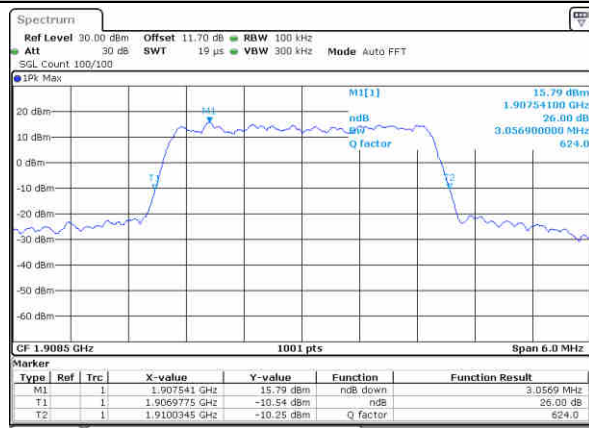
Date: 30 SEP 2017 15:47:52

## Highest Channel / 3MHz / QPSK



Date: 30 SEP 2017 15:50:10

## Highest Channel / 3MHz / 16QAM

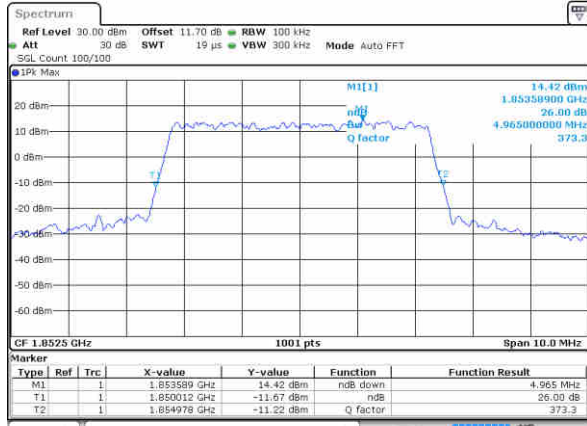


Date: 30 SEP 2017 15:50:20



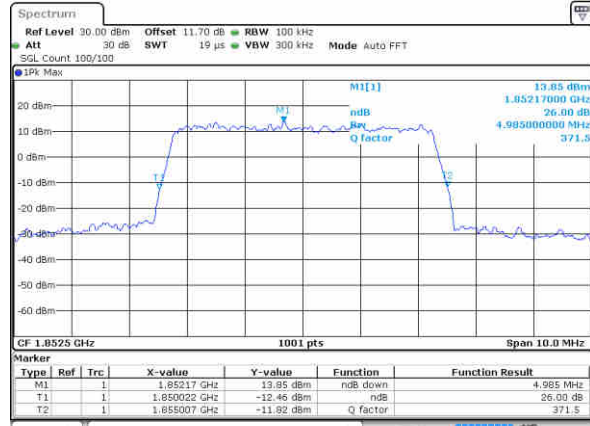
## LTE Band 2

## Lowest Channel / 5MHz / QPSK



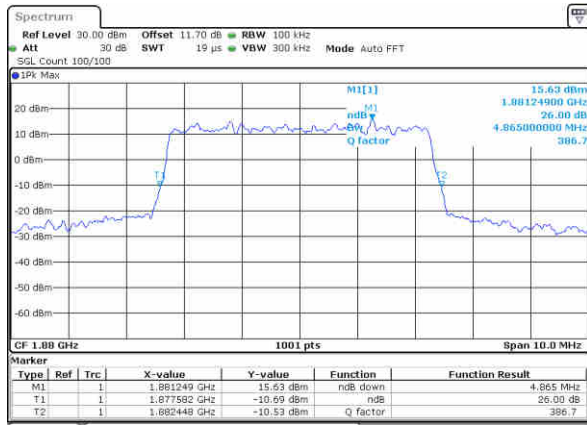
Date: 30 SEP 2017 15:57:13

## Lowest Channel / 5MHz / 16QAM



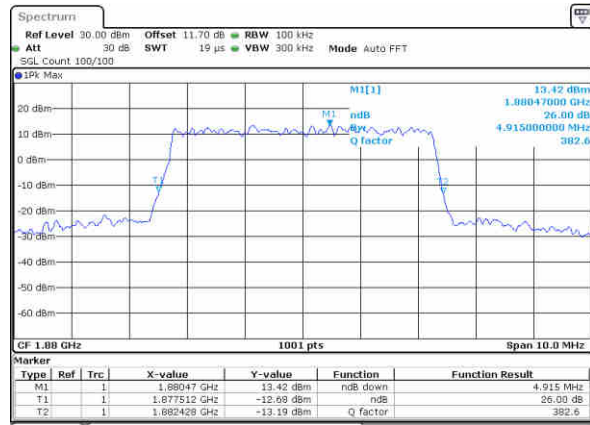
Date: 30 SEP 2017 15:57:23

## Middle Channel / 5MHz / QPSK



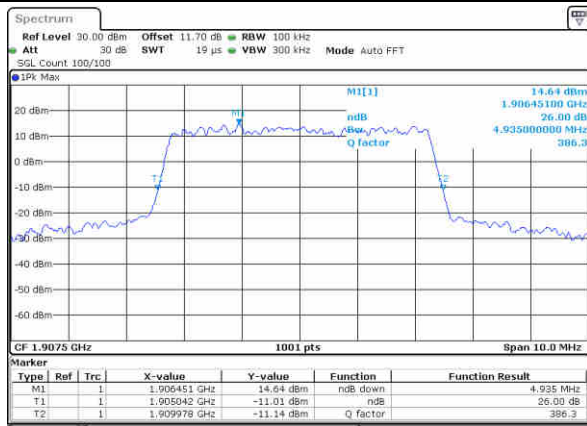
Date: 30 SEP 2017 16:04:16

## Middle Channel / 5MHz / 16QAM



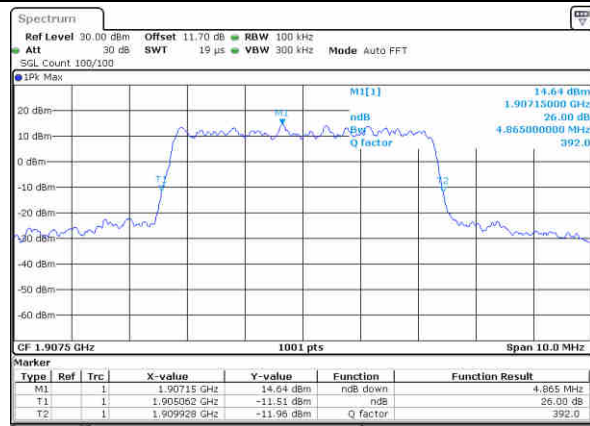
Date: 30 SEP 2017 16:04:26

## Highest Channel / 5MHz / QPSK



Date: 30 SEP 2017 16:06:44

## Highest Channel / 5MHz / 16QAM

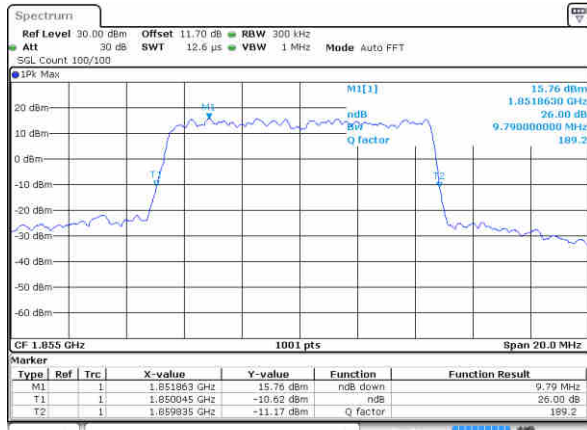


Date: 30 SEP 2017 16:06:54

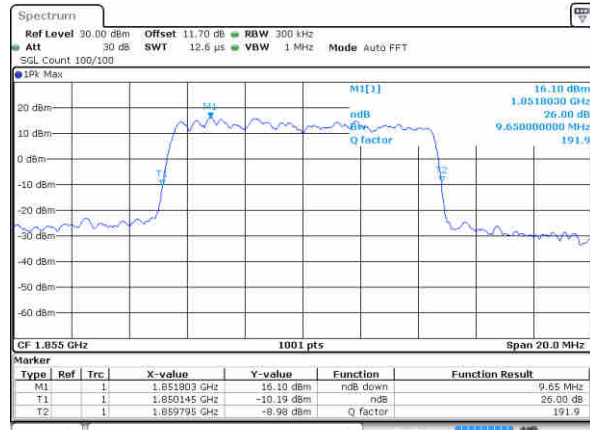


## LTE Band 2

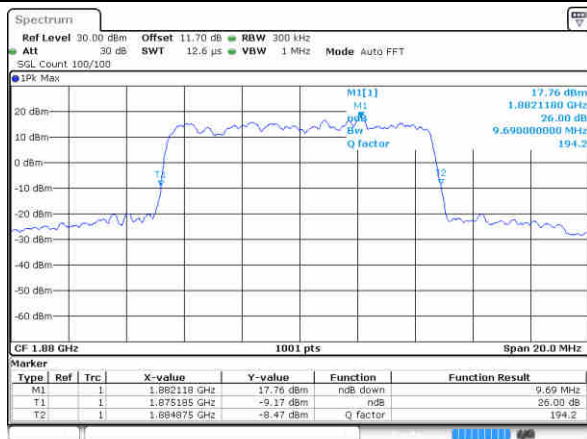
## Lowest Channel / 10MHz / QPSK



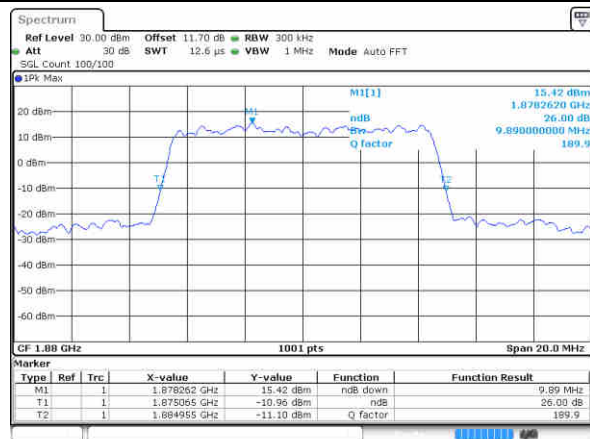
## Lowest Channel / 10MHz / 16QAM



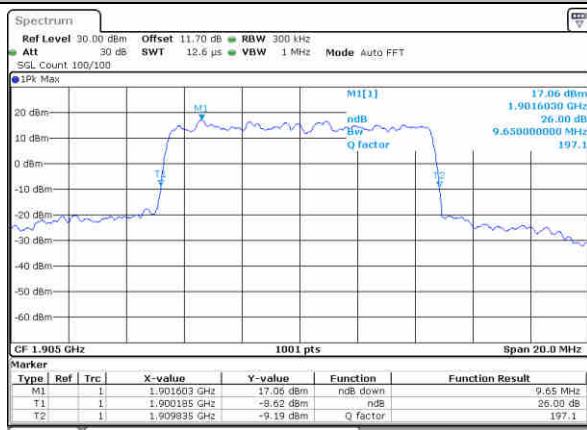
## Middle Channel / 10MHz / QPSK



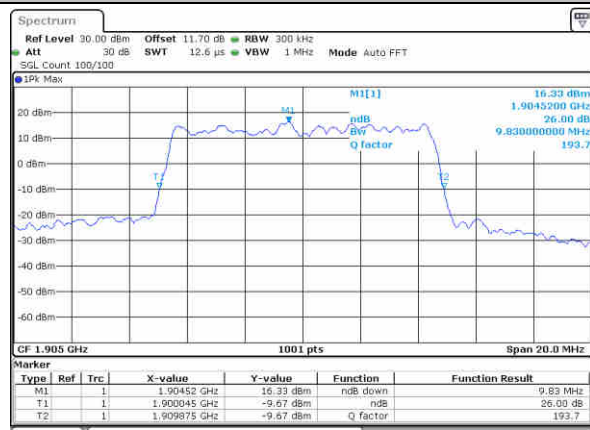
## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



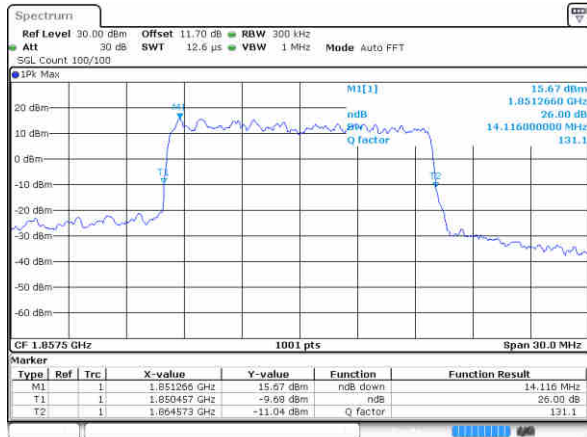
## Highest Channel / 10MHz / 16QAM



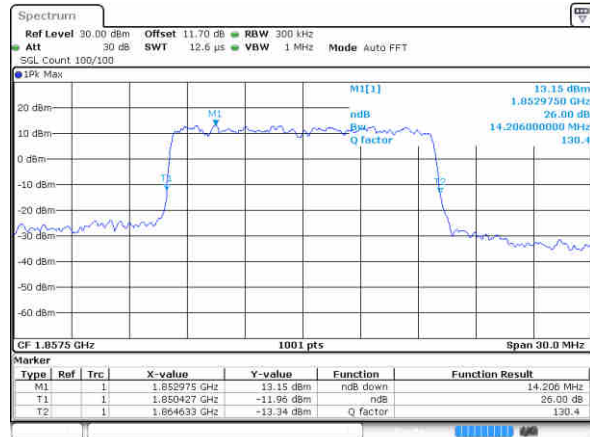


## LTE Band 2

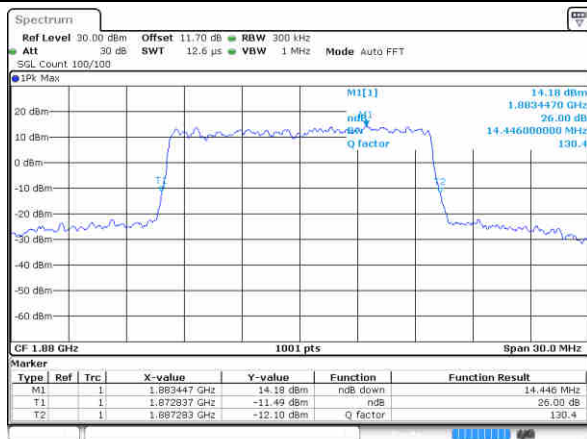
## Lowest Channel / 15MHz / QPSK



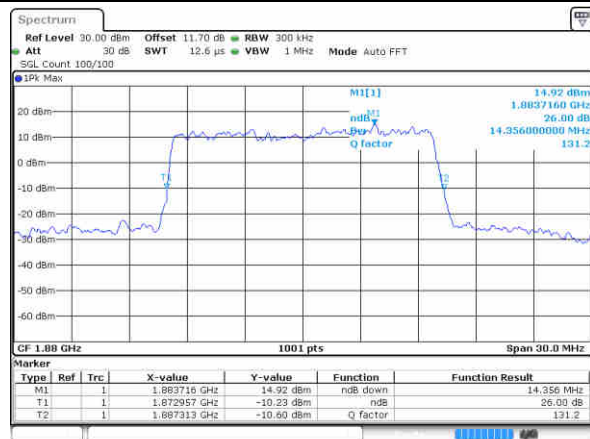
## Lowest Channel / 15MHz / 16QAM



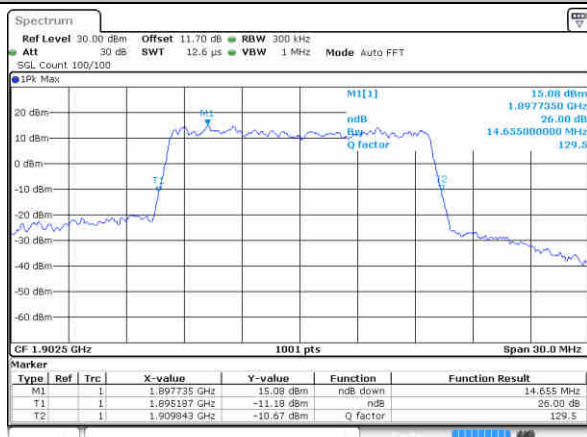
## Middle Channel / 15MHz / QPSK



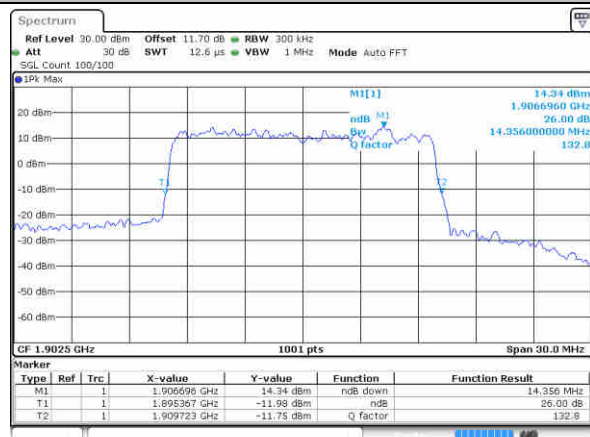
## Middle Channel / 15MHz / 16QAM



## Highest Channel / 15MHz / QPSK



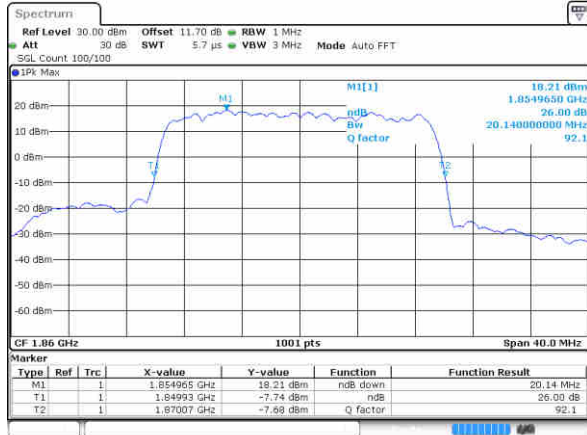
## Highest Channel / 15MHz / 16QAM



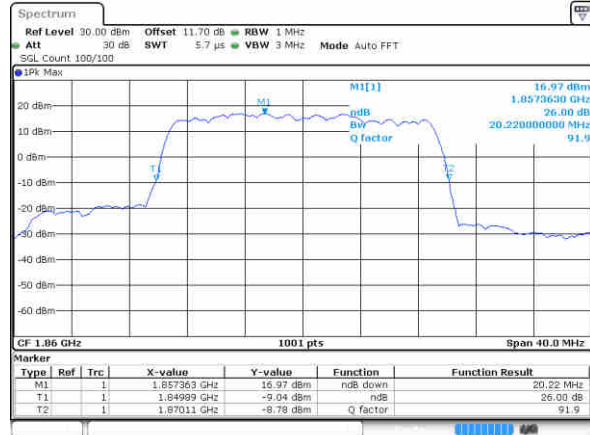


## LTE Band 2

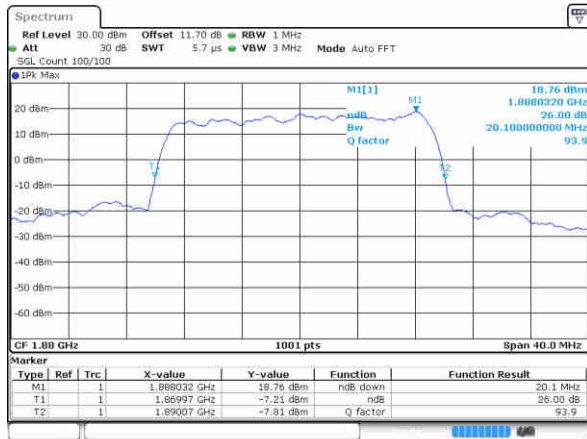
## Lowest Channel / 20MHz / QPSK



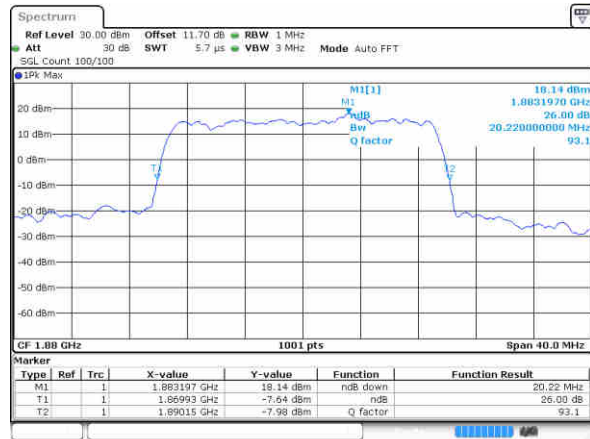
## Lowest Channel / 20MHz / 16QAM



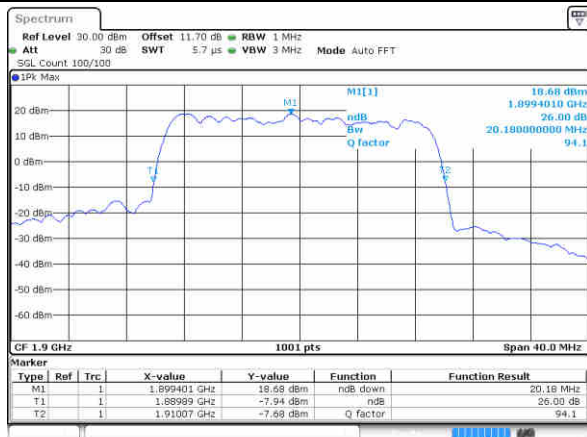
## Middle Channel / 20MHz / QPSK



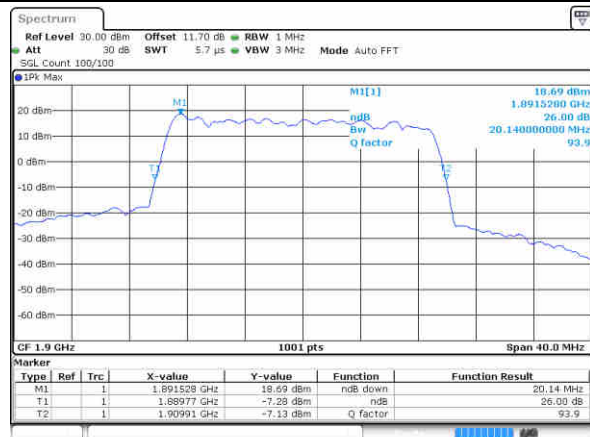
## Middle Channel / 20MHz / 16QAM



## Highest Channel / 20MHz / QPSK



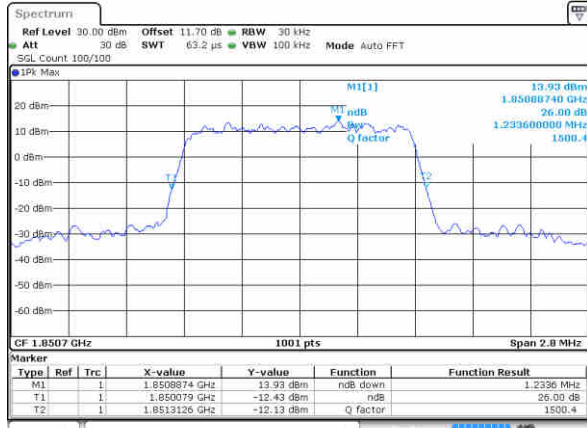
## Highest Channel / 20MHz / 16QAM





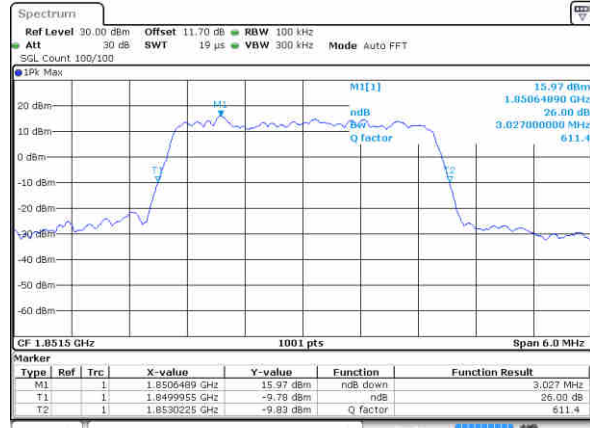
## LTE Band 2

## Lowest Channel / 1.4MHz / 64QAM



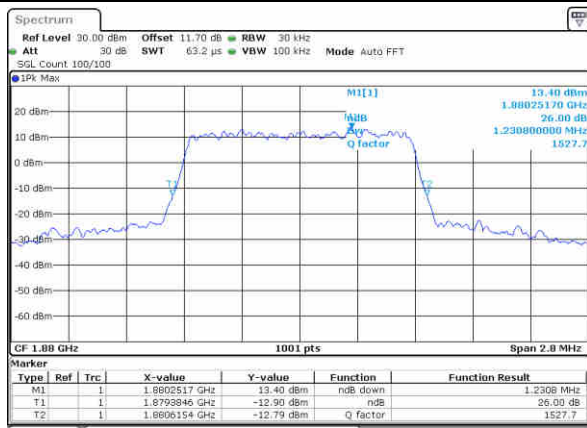
Date: 30 SEP 2017 17:44:11

## Lowest Channel / 3MHz / 64QAM



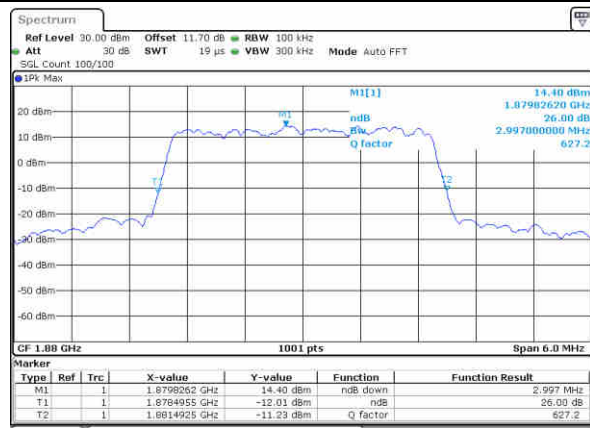
Date: 30 SEP 2017 17:03:17

## Middle Channel / 1.4MHz / 64QAM



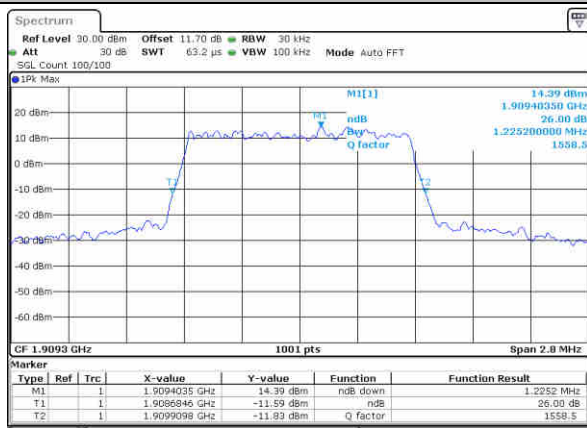
Date: 30 SEP 2017 17:47:42

## Middle Channel / 3MHz / 64QAM



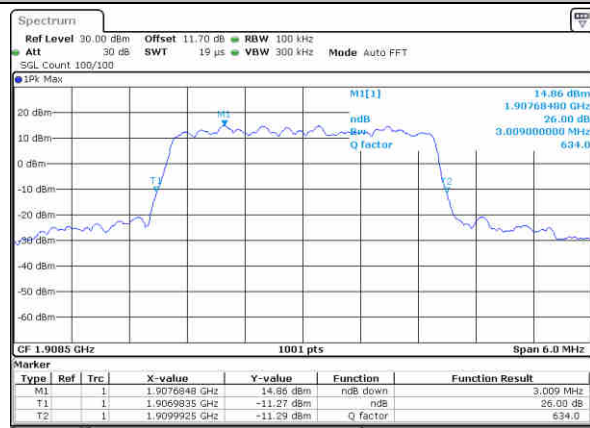
Date: 30 SEP 2017 17:06:49

## Highest Channel / 1.4MHz / 64QAM



Date: 30 SEP 2017 17:48:56

## Highest Channel / 3MHz / 64QAM

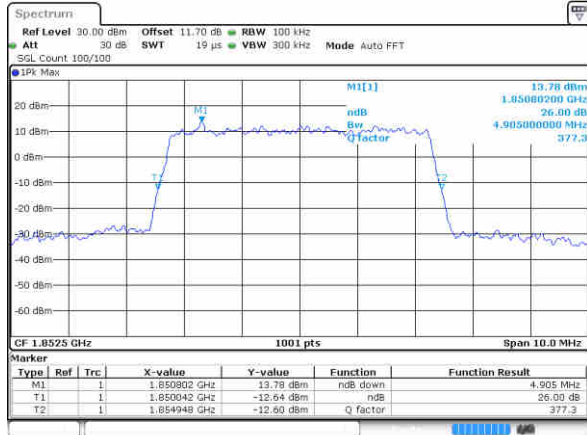


Date: 30 SEP 2017 17:08:03

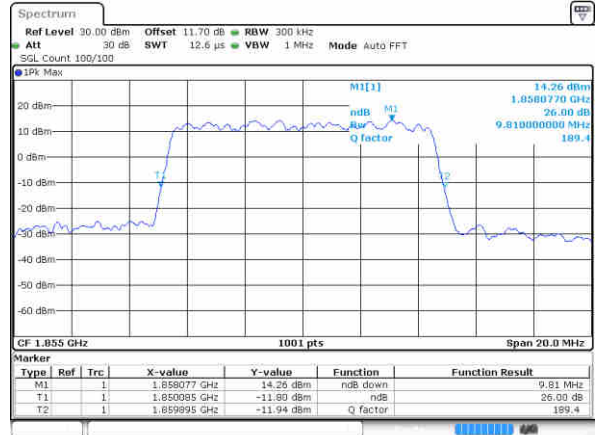


## LTE Band 2

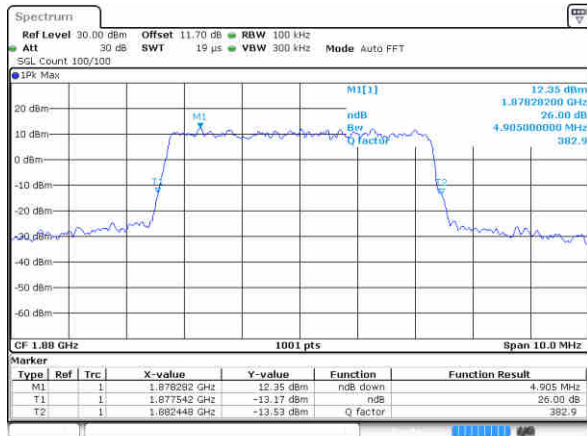
## Lowest Channel / 5MHz / 64QAM



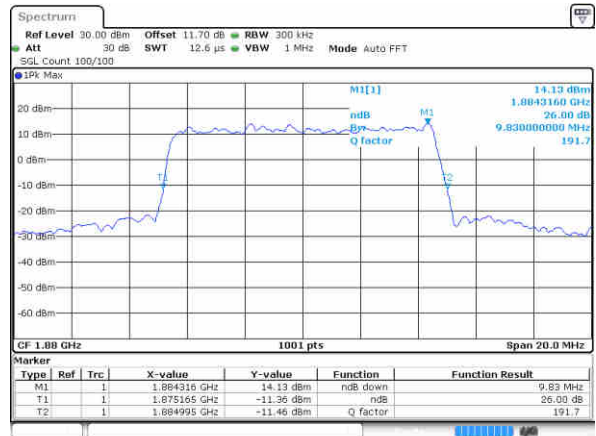
## Lowest Channel / 10MHz / 64QAM



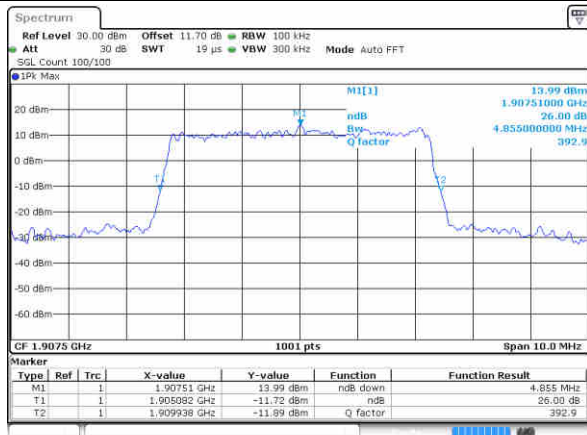
## Middle Channel / 5MHz / 64QAM



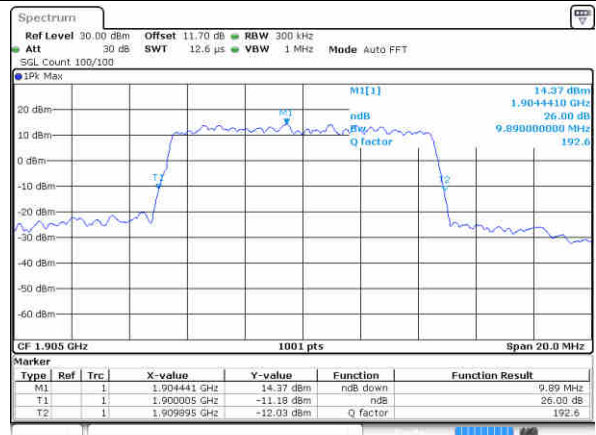
## Middle Channel / 10MHz / 64QAM



## Highest Channel / 5MHz / 64QAM



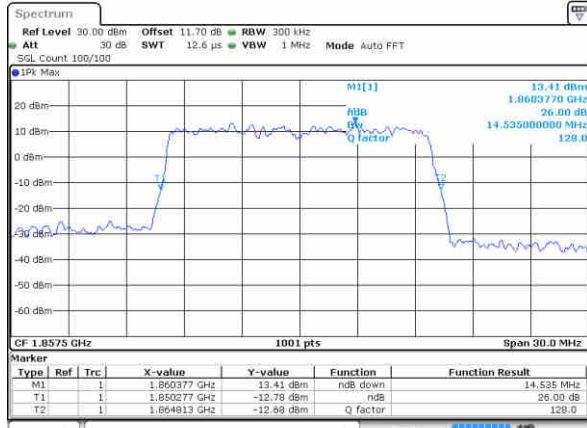
## Highest Channel / 10MHz / 64QAM



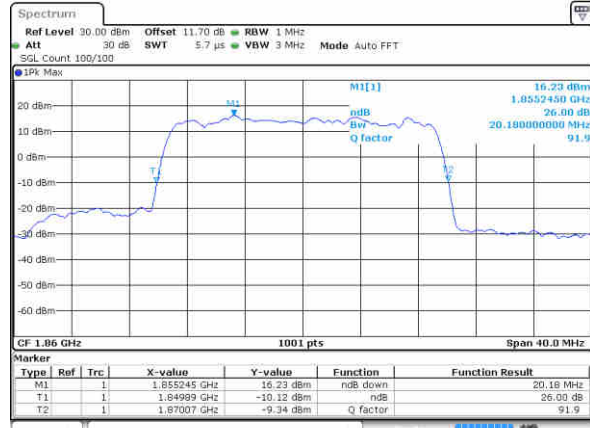


## LTE Band 2

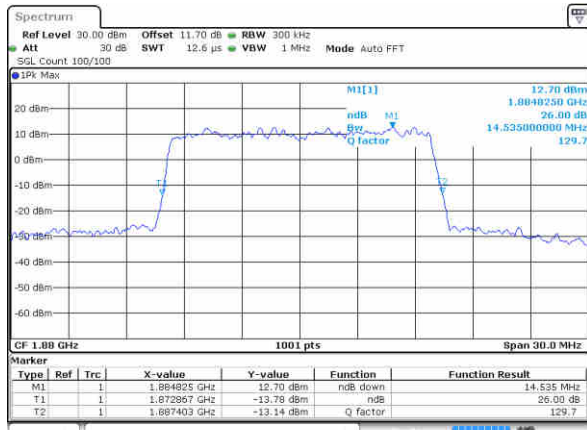
## Lowest Channel / 15MHz / 64QAM



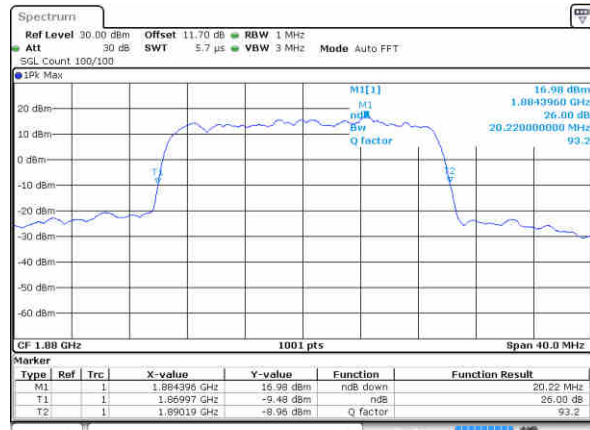
## Lowest Channel / 20MHz / 64QAM



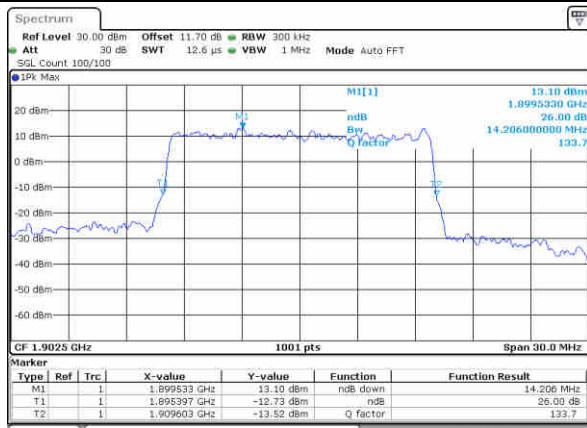
## Middle Channel / 15MHz / 64QAM



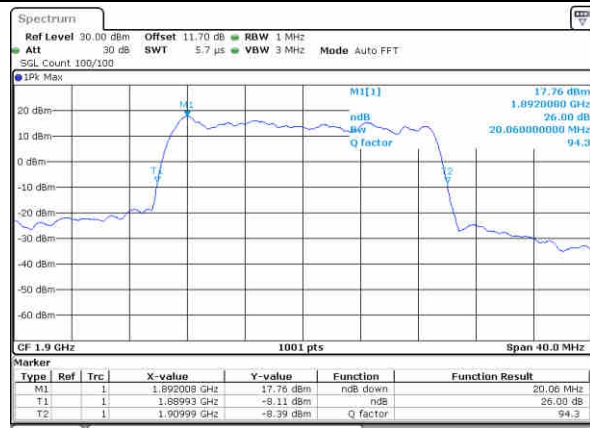
## Middle Channel / 20MHz / 64QAM



## Highest Channel / 15MHz / 64QAM



## Highest Channel / 20MHz / 64QAM



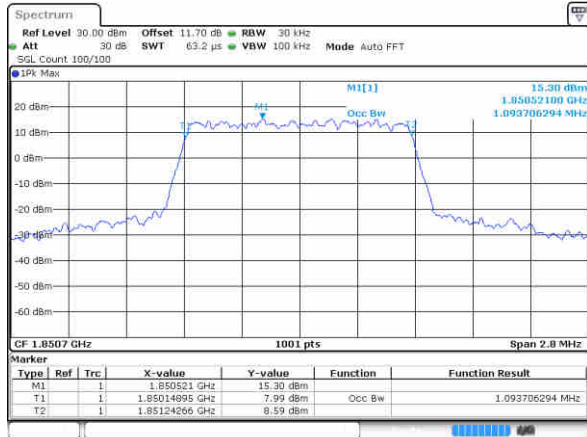
**Occupied Bandwidth**

| Mode       | LTE Band 2 : 99%OBW(MHz) |       |       |       |       |       |       |       |       |       |       |       |
|------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 1.4MHz                   |       | 3MHz  |       | 5MHz  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                     | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | 1.09                     | 1.1   | 2.72  | 2.72  | 4.5   | 4.5   | 9.03  | 9.03  | 13.4  | 13.46 | 18.3  | 18.38 |
| Middle CH  | 1.09                     | 1.1   | 2.73  | 2.72  | 4.49  | 4.52  | 9.01  | 9.01  | 13.4  | 13.46 | 18.5  | 18.26 |
| Highest CH | 1.09                     | 1.09  | 2.73  | 2.7   | 4.51  | 4.49  | 9.03  | 9.03  | 13.46 | 13.43 | 18.3  | 18.46 |
| Mode       | LTE Band 2 : 99%OBW(MHz) |       |       |       |       |       |       |       |       |       |       |       |
| BW         | 1.4MHz                   |       | 3MHz  |       | 5MHz  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | 64QAM                    |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       |
| Lowest CH  | 1.1                      | -     | 2.72  | -     | 4.49  | -     | 9.01  | -     | 13.4  | -     | 18.26 | -     |
| Middle CH  | 1.09                     | -     | 2.72  | -     | 4.51  | -     | 9.09  | -     | 13.43 | -     | 18.34 | -     |
| Highest CH | 1.09                     | -     | 2.72  | -     | 4.5   | -     | 9.05  | -     | 13.49 | -     | 18.34 | -     |

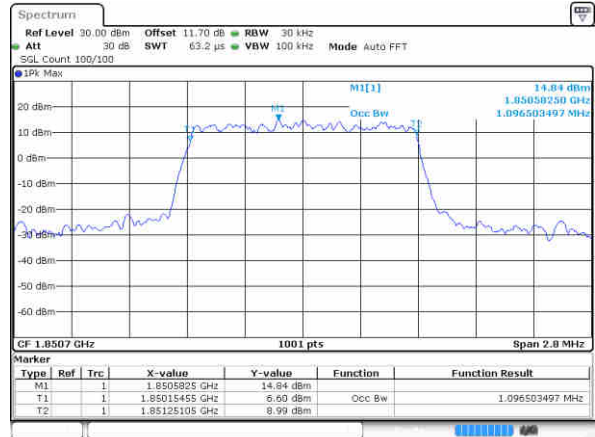


## LTE Band 2

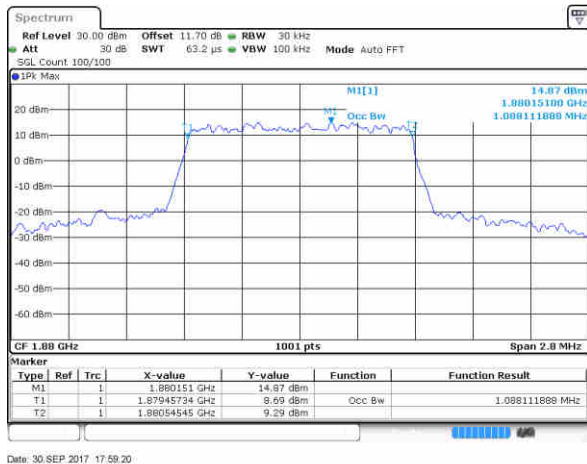
## Lowest Channel / 1.4MHz / QPSK



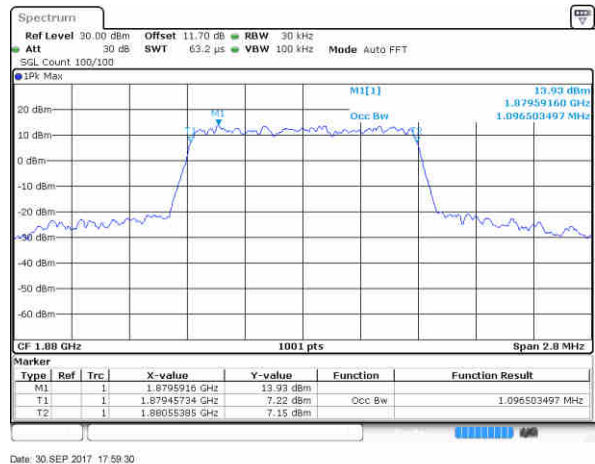
## Lowest Channel / 1.4MHz / 16QAM



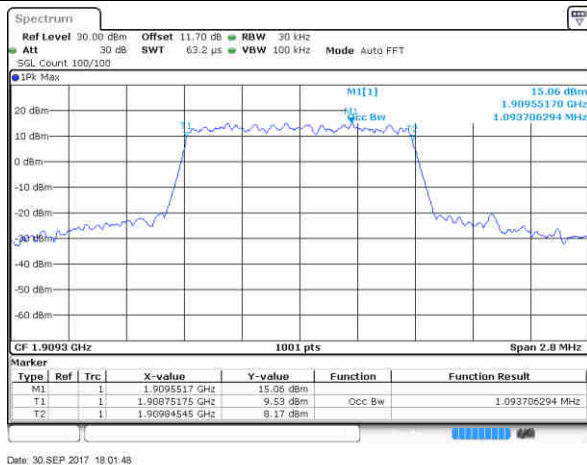
## Middle Channel / 1.4MHz / QPSK



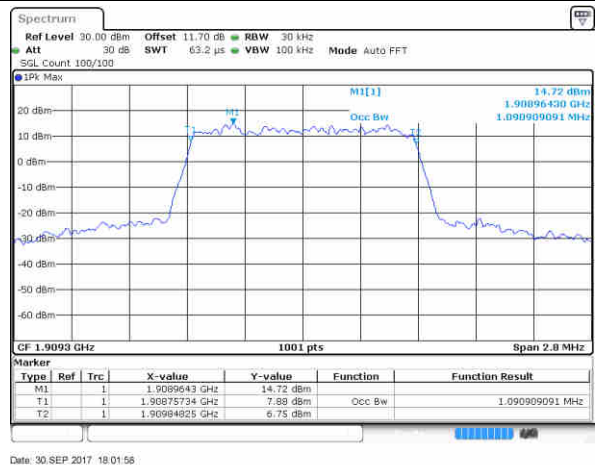
## Middle Channel / 1.4MHz / 16QAM



## Highest Channel / 1.4MHz / QPSK



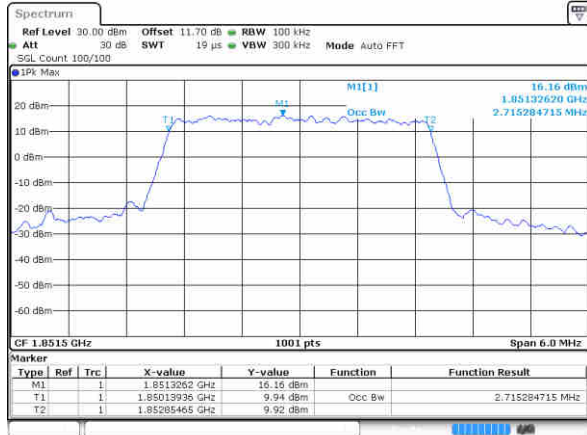
## Highest Channel / 1.4MHz / 16QAM



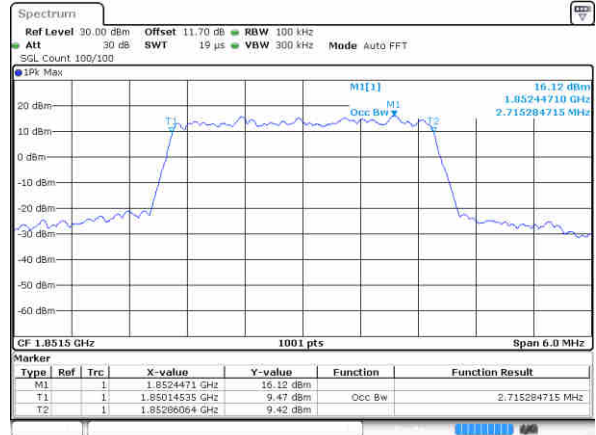


## LTE Band 2

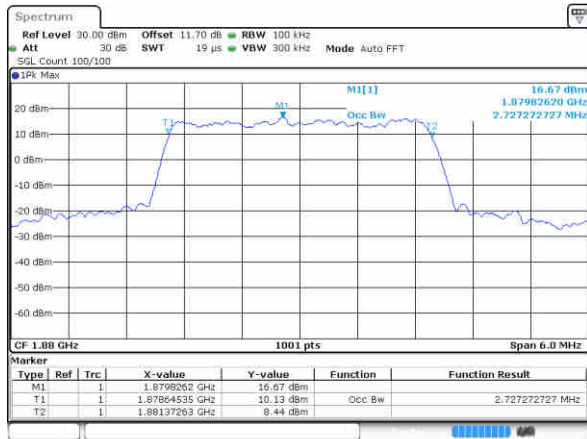
## Lowest Channel / 3MHz / QPSK



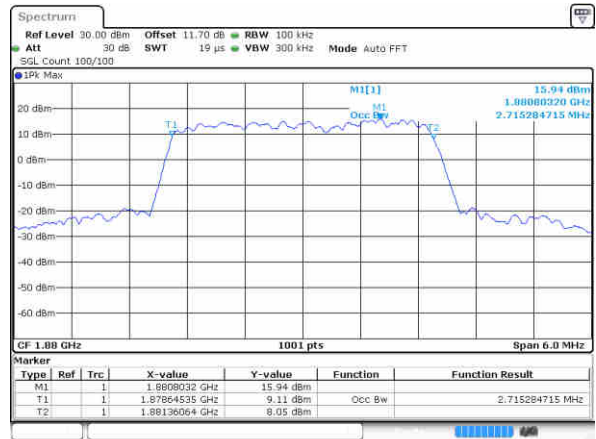
## Lowest Channel / 3MHz / 16QAM



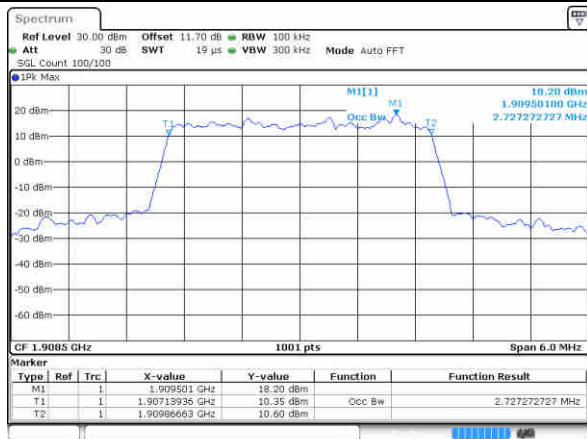
## Middle Channel / 3MHz / QPSK



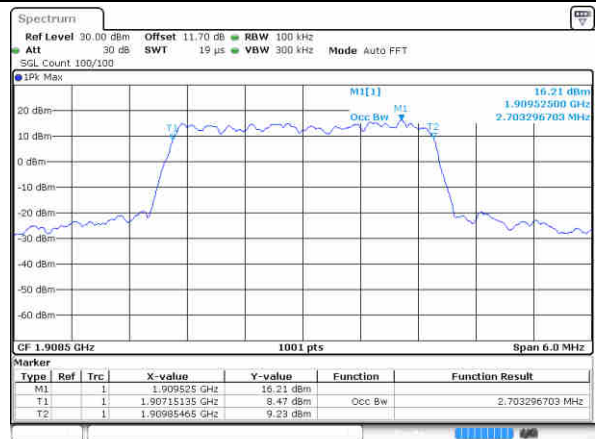
## Middle Channel / 3MHz / 16QAM



## Highest Channel / 3MHz / QPSK



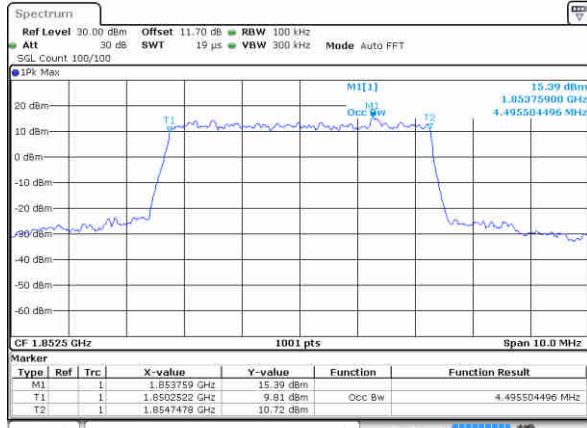
## Highest Channel / 3MHz / 16QAM





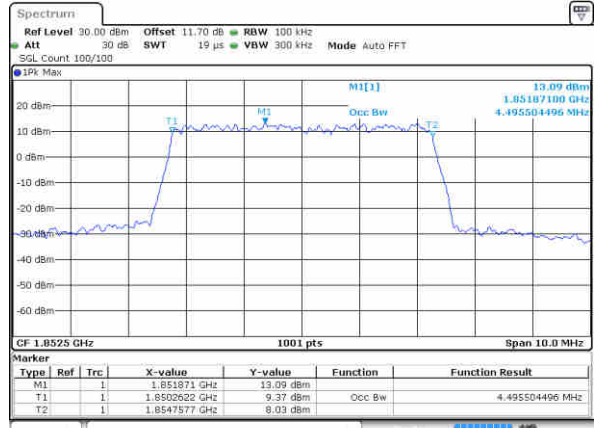
## LTE Band 2

## Lowest Channel / 5MHz / QPSK



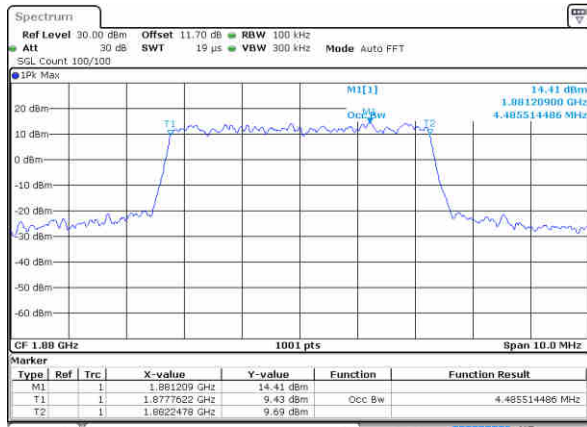
Date: 30 SEP 2017 15:56:53

## Lowest Channel / 5MHz / 16QAM



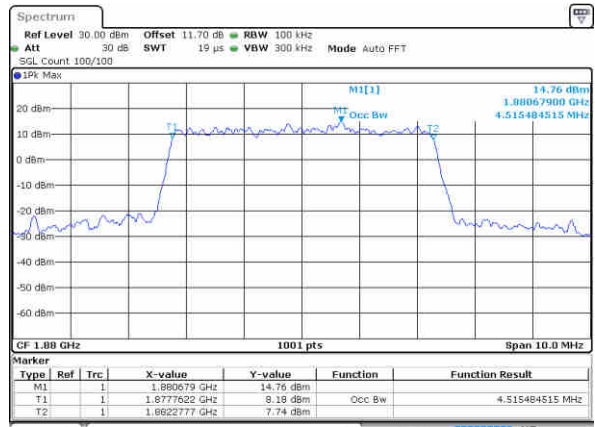
Date: 30 SEP 2017 15:57:03

## Middle Channel / 5MHz / QPSK



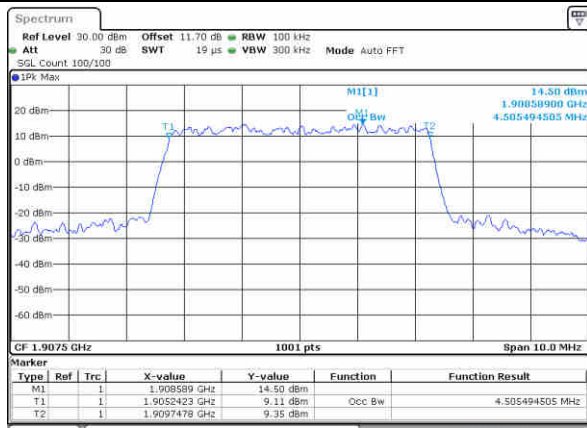
Date: 30 SEP 2017 16:03:56

## Middle Channel / 5MHz / 16QAM



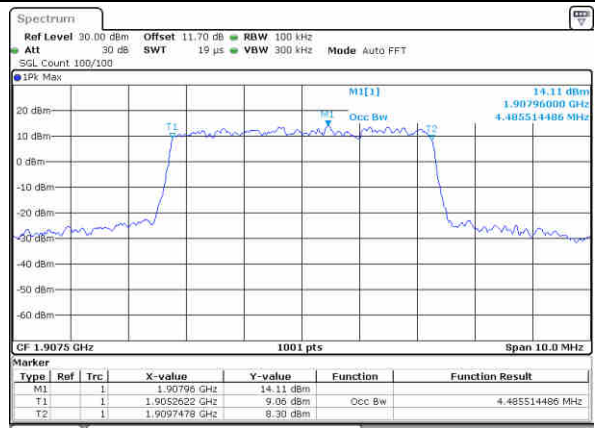
Date: 30 SEP 2017 16:04:06

## Highest Channel / 5MHz / QPSK



Date: 30 SEP 2017 16:06:24

## Highest Channel / 5MHz / 16QAM

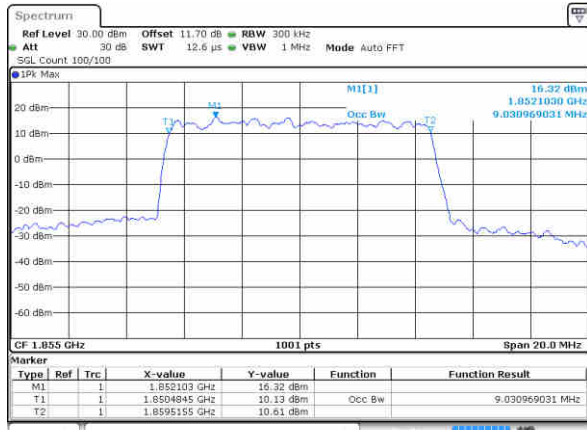


Date: 30 SEP 2017 16:06:34



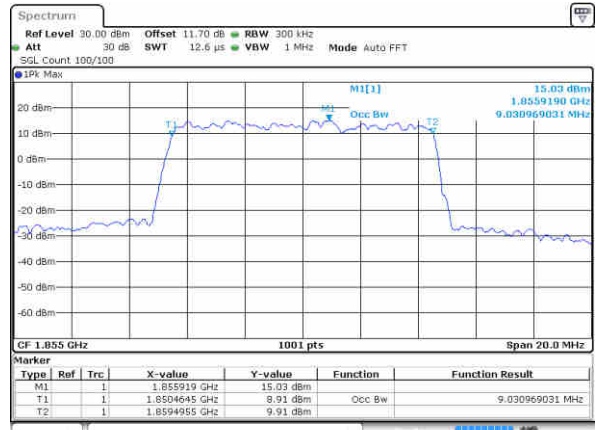
## LTE Band 2

## Lowest Channel / 10MHz / QPSK



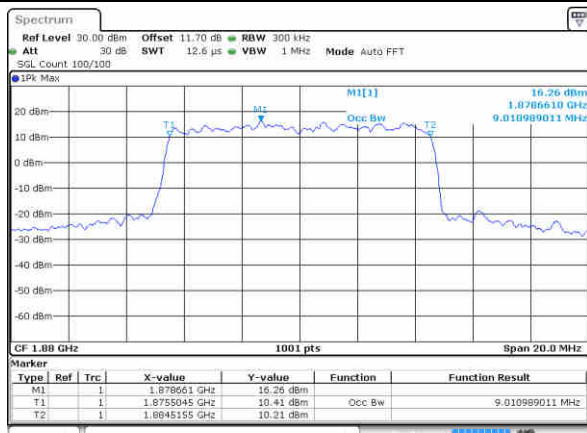
Date: 30 SEP 2017 16:13:27

## Lowest Channel / 10MHz / 16QAM



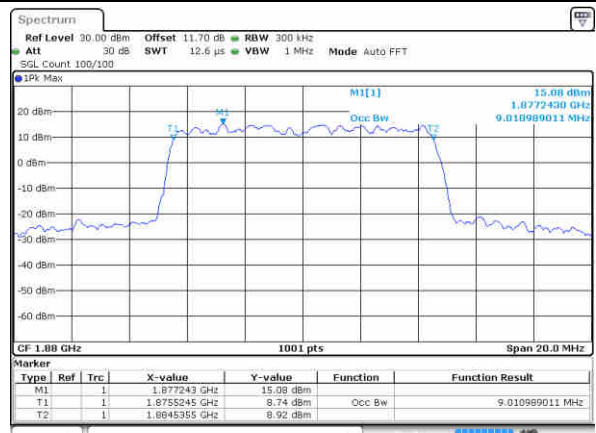
Date: 30 SEP 2017 16:13:37

## Middle Channel / 10MHz / QPSK



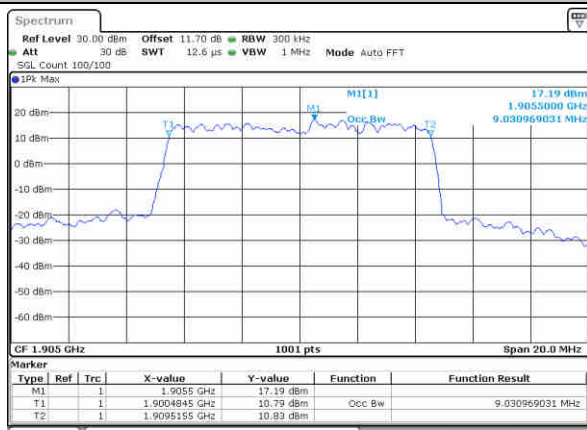
Date: 30 SEP 2017 16:20:30

## Middle Channel / 10MHz / 16QAM



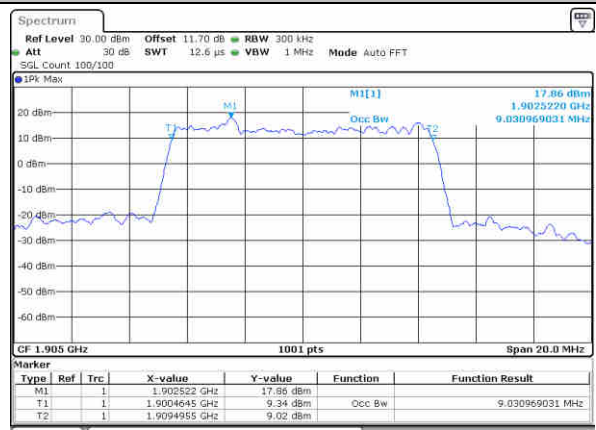
Date: 30 SEP 2017 16:20:40

## Highest Channel / 10MHz / QPSK



Date: 30 SEP 2017 16:22:58

## Highest Channel / 10MHz / 16QAM

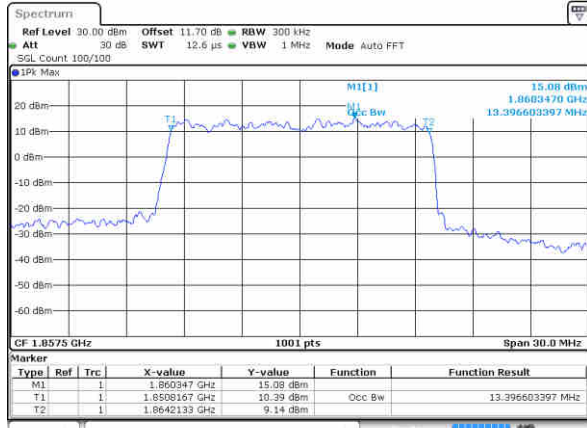


Date: 30 SEP 2017 16:23:08



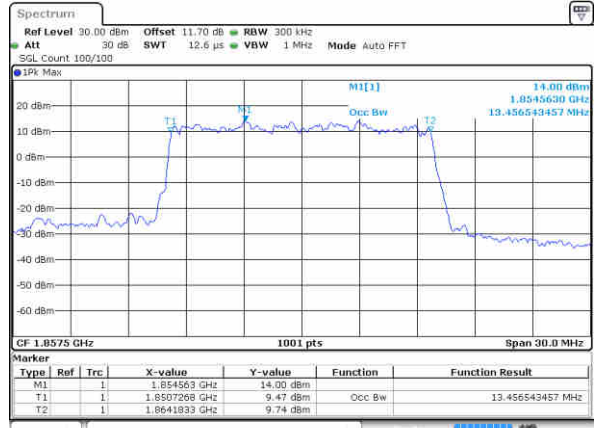
## LTE Band 2

## Lowest Channel / 15MHz / QPSK



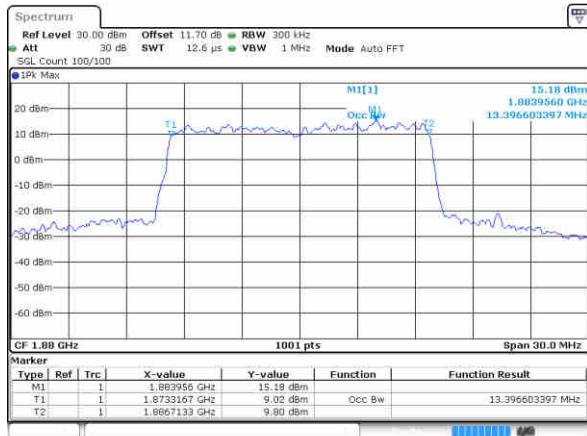
Date: 30 SEP 2017 16:30:01

## Lowest Channel / 15MHz / 16QAM



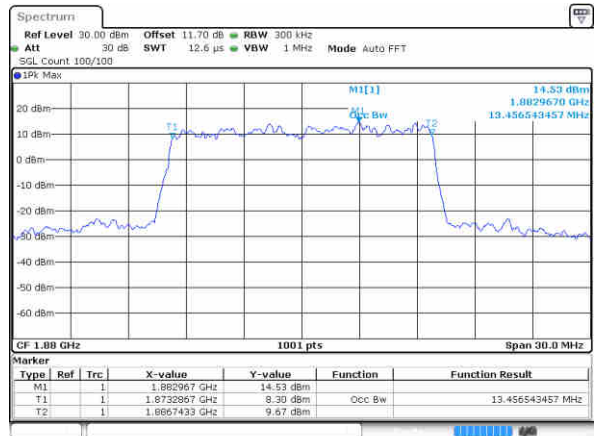
Date: 30 SEP 2017 16:30:11

## Middle Channel / 15MHz / QPSK



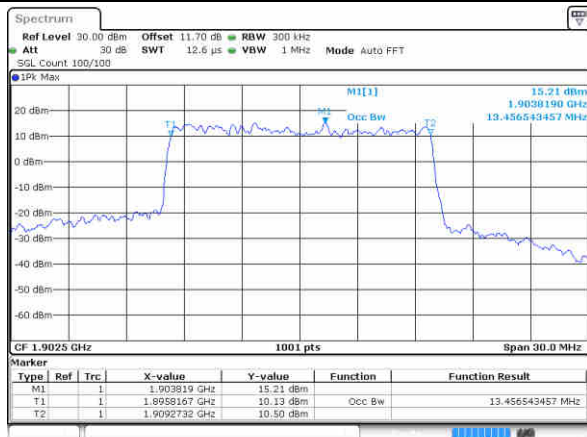
Date: 30 SEP 2017 16:37:03

## Middle Channel / 15MHz / 16QAM



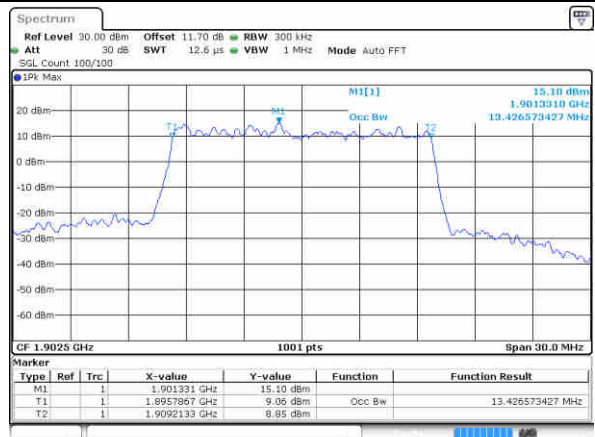
Date: 30 SEP 2017 16:37:13

## Highest Channel / 15MHz / QPSK



Date: 30 SEP 2017 16:39:31

## Highest Channel / 15MHz / 16QAM

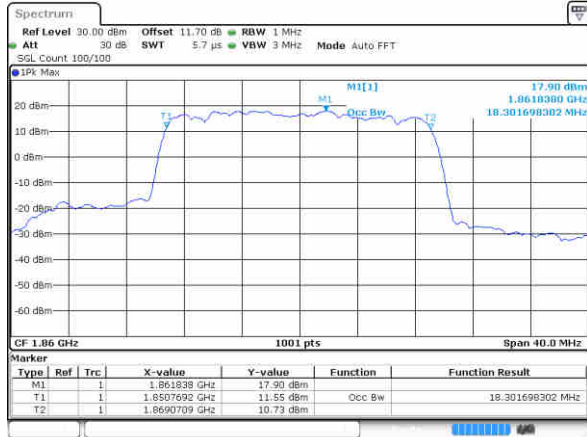


Date: 30 SEP 2017 16:39:41

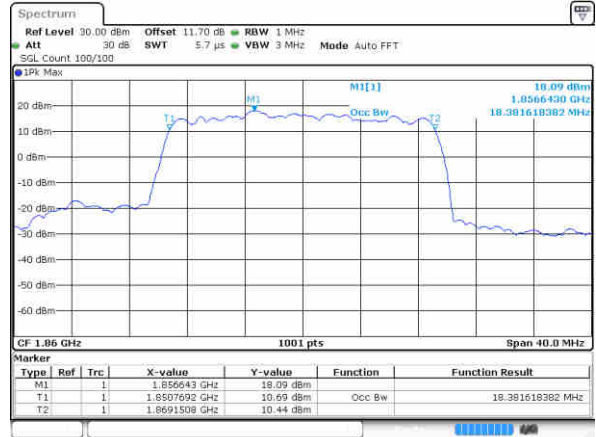


## LTE Band 2

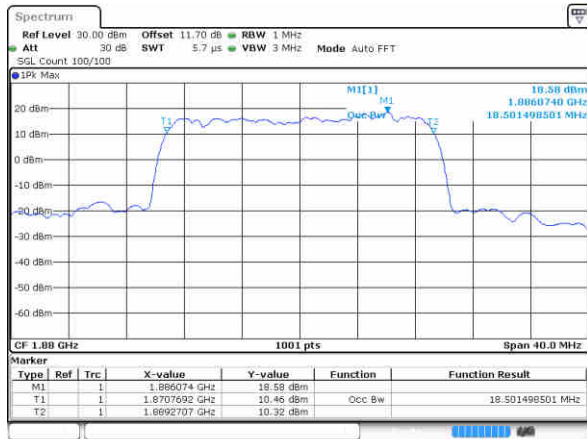
## Lowest Channel / 20MHz / QPSK



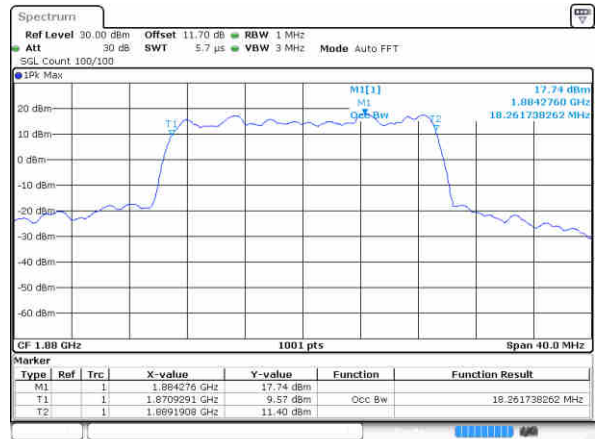
## Lowest Channel / 20MHz / 16QAM



## Middle Channel / 20MHz / QPSK



## Middle Channel / 20MHz / 16QAM



## Highest Channel / 20MHz / QPSK



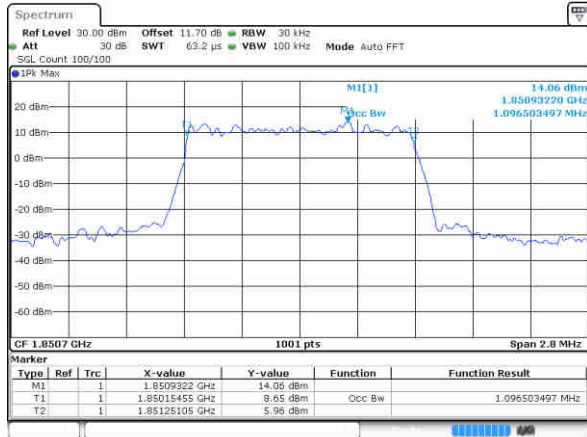
## Highest Channel / 20MHz / 16QAM



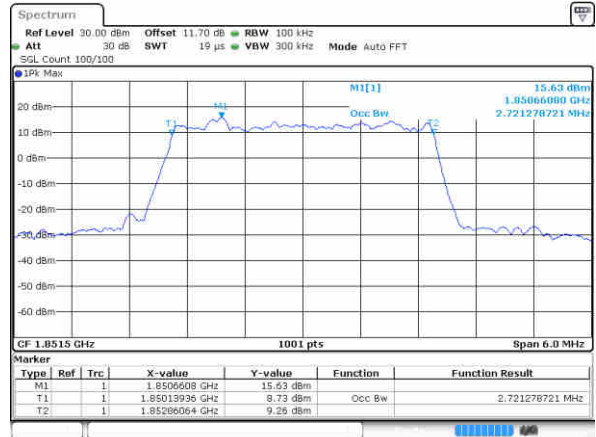


## LTE Band 2

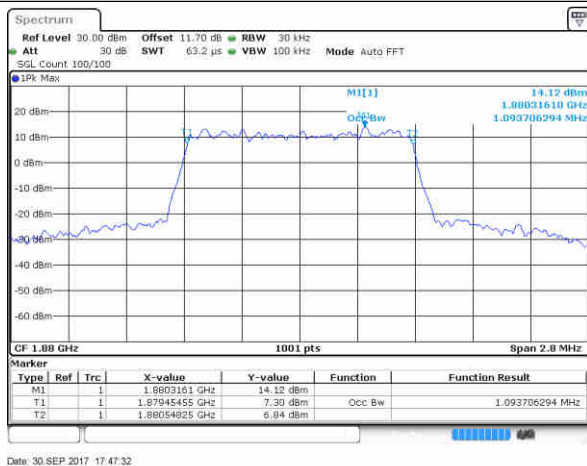
## Lowest Channel / 1.4MHz / 64QAM



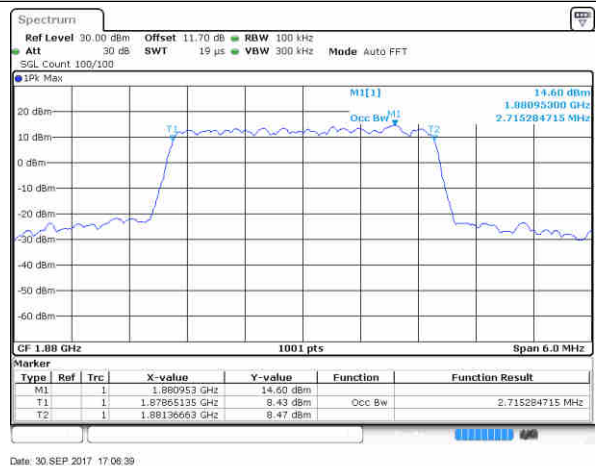
## Lowest Channel / 3MHz / 64QAM



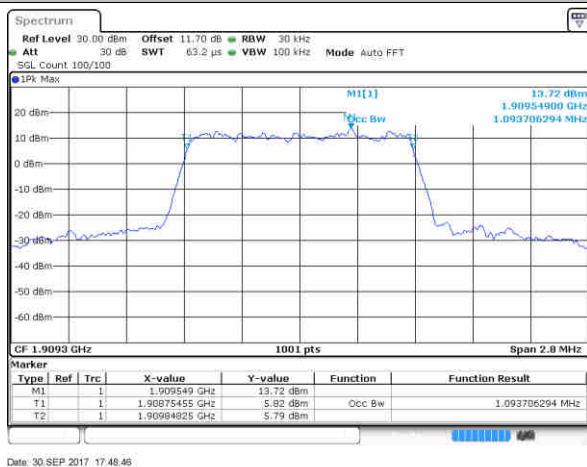
## Middle Channel / 1.4MHz / 64QAM



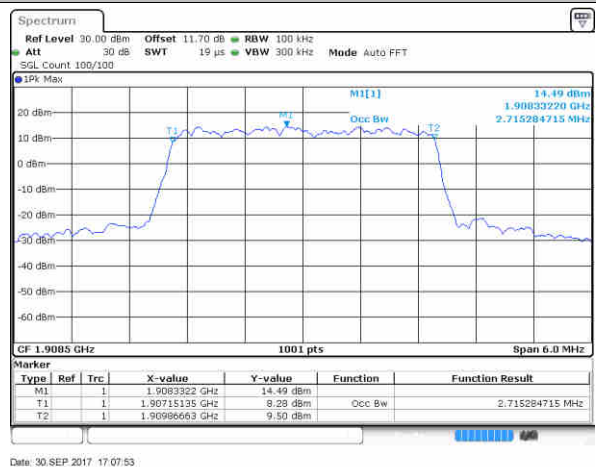
## Middle Channel / 3MHz / 64QAM



## Highest Channel / 1.4MHz / 64QAM



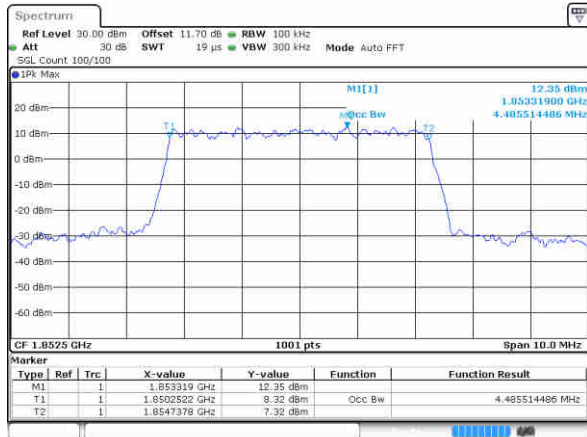
## Highest Channel / 3MHz / 64QAM



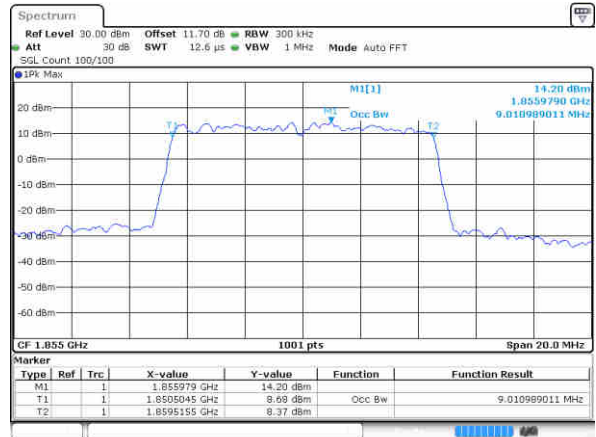


## LTE Band 2

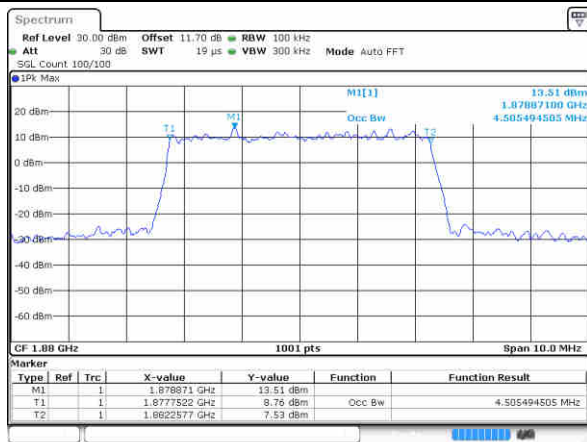
## Lowest Channel / 5MHz / 64QAM



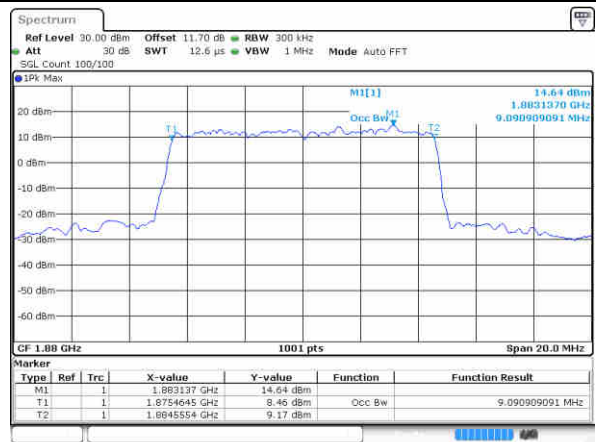
## Lowest Channel / 10MHz / 64QAM



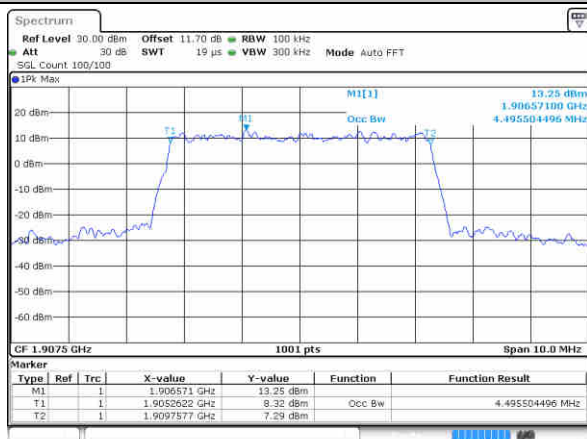
## Middle Channel / 5MHz / 64QAM



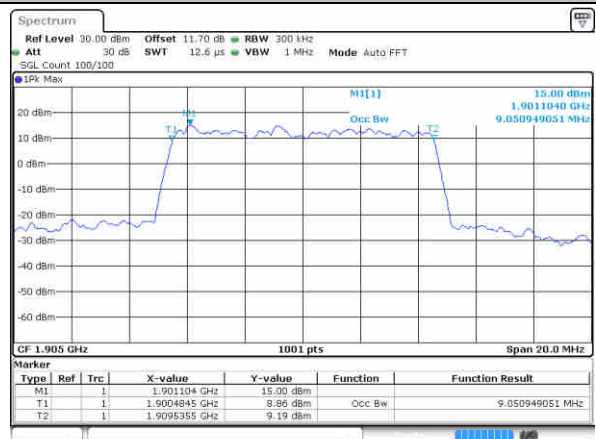
## Middle Channel / 10MHz / 64QAM



## Highest Channel / 5MHz / 64QAM



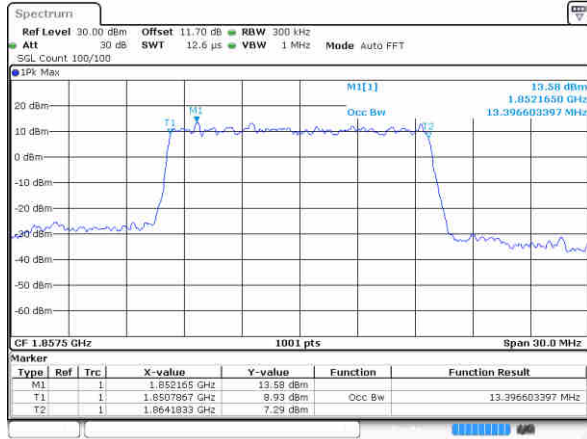
## Highest Channel / 10MHz / 64QAM



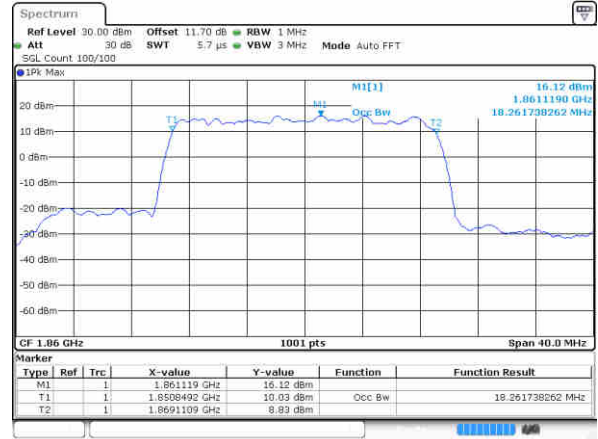


## LTE Band 2

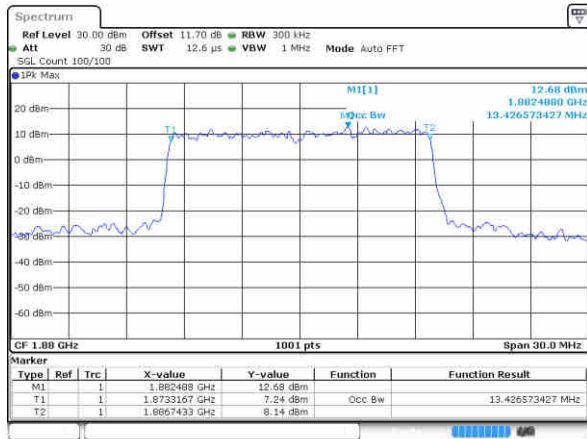
## Lowest Channel / 15MHz / 64QAM



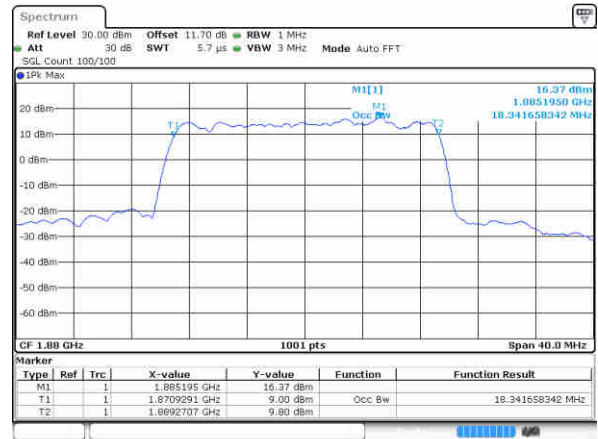
## Lowest Channel / 20MHz / 64QAM



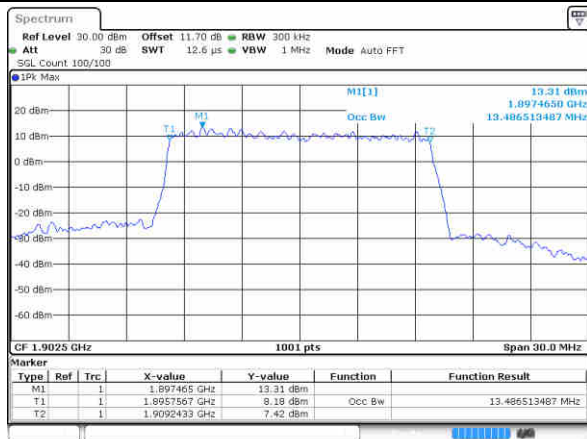
## Middle Channel / 15MHz / 64QAM



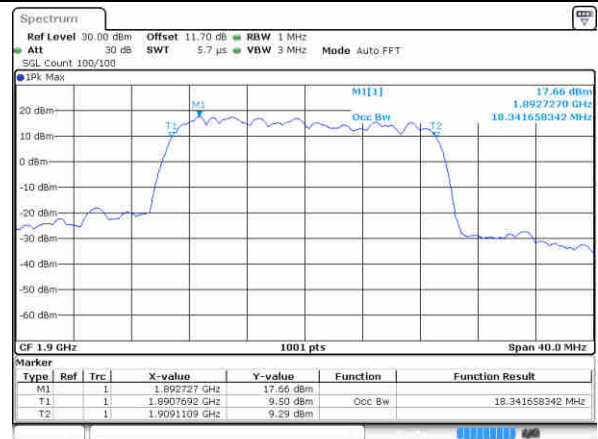
## Middle Channel / 20MHz / 64QAM



## Highest Channel / 15MHz / 64QAM



## Highest Channel / 20MHz / 64QAM

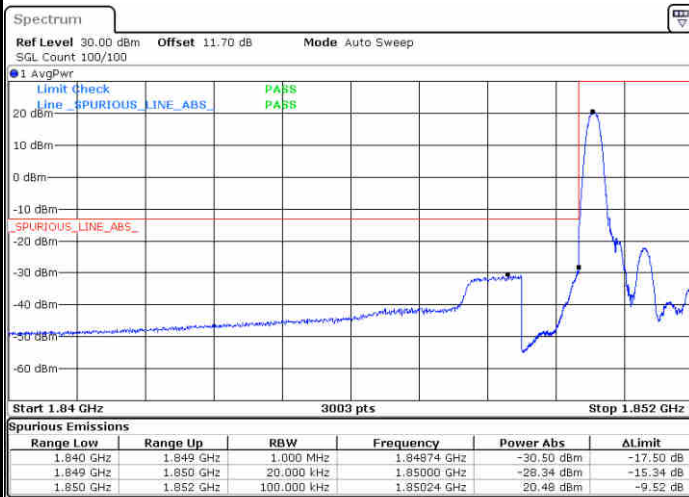




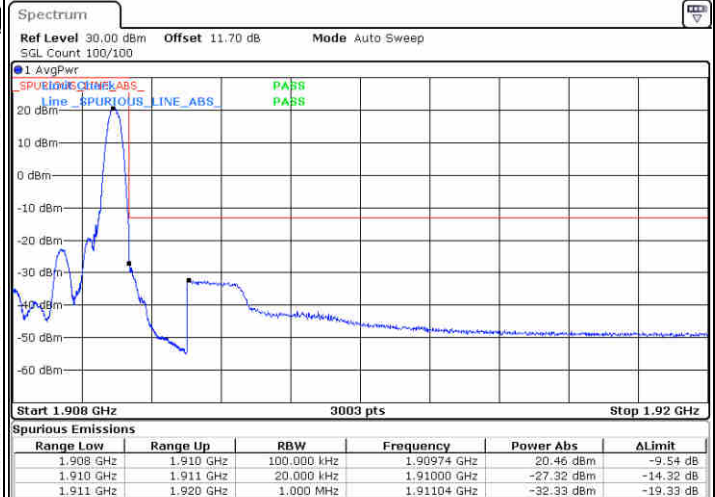
# Conducted Band Edge

## LTE Band 2 / 1.4MHz / QPSK

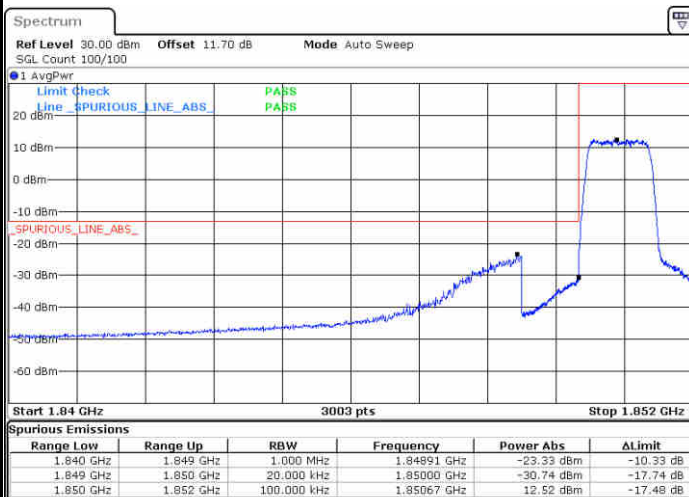
### Lowest Band Edge / 1RB



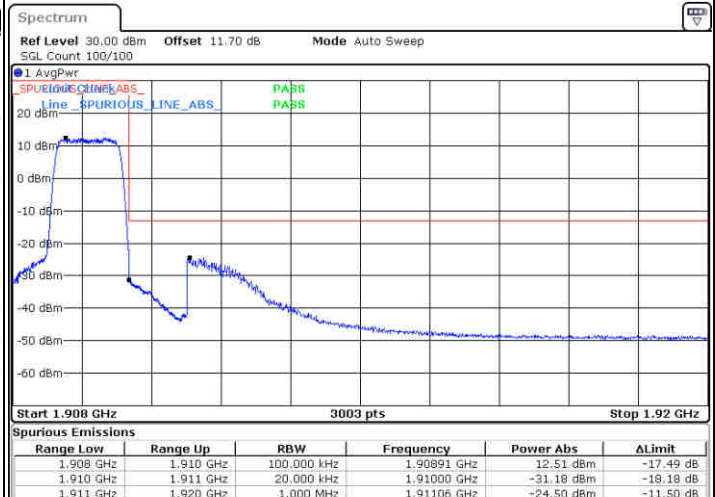
### Highest Band Edge / 1RB



### Lowest Band Edge / Full RB



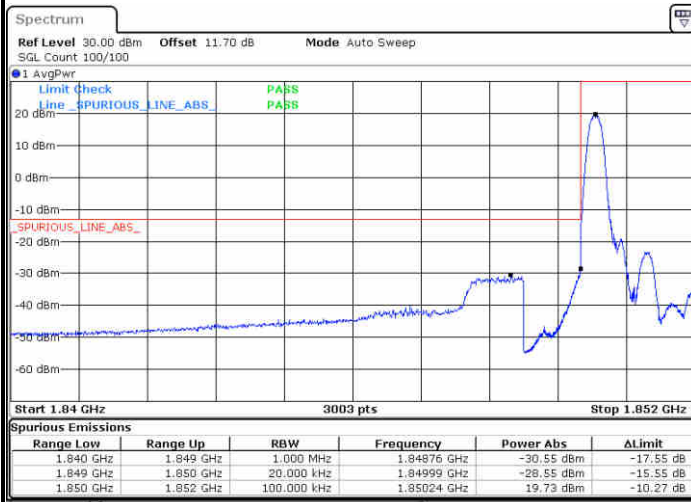
### Highest Band Edge / Full RB





## LTE Band 2 / 1.4MHz / 16QAM

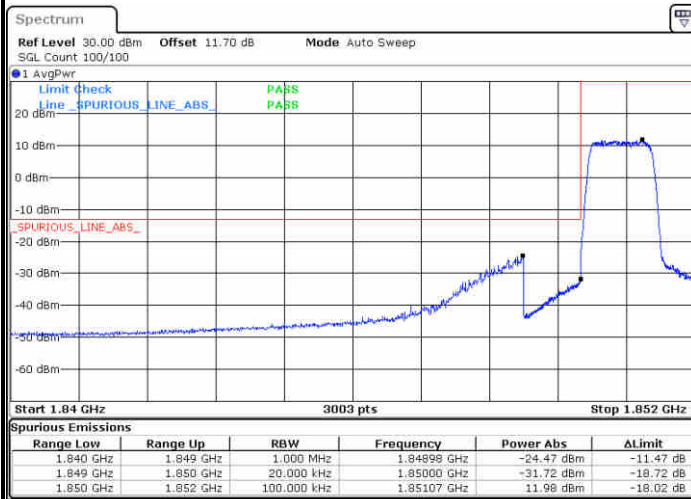
## Lowest Band Edge / 1 RB



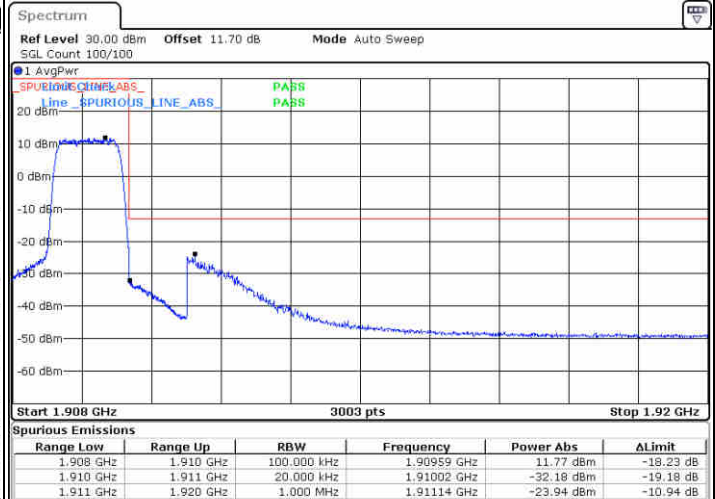
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



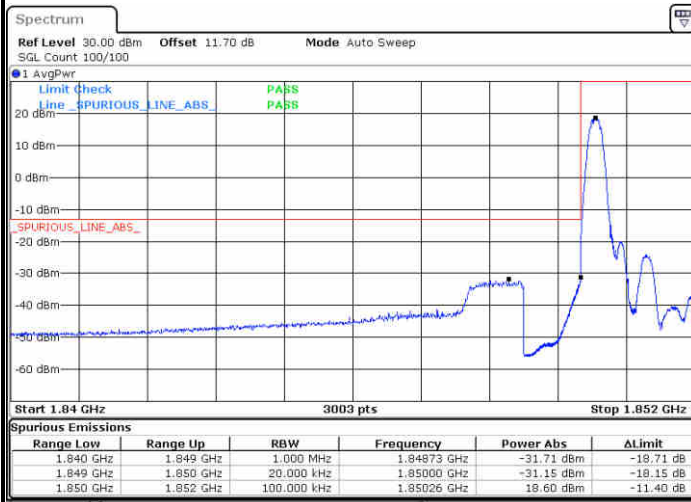
## Highest Band Edge / Full RB





## LTE Band 2 / 1.4MHz / 64QAM

## Lowest Band Edge / 1 RB



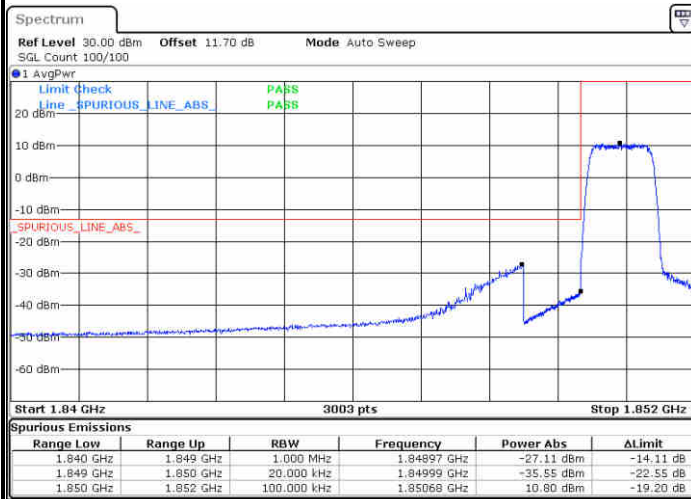
Date: 30.SEP.2017 17:45:19

## Highest Band Edge / 1 RB



Date: 30.SEP.2017 17:50:04

## Lowest Band Edge / Full RB



Date: 30.SEP.2017 17:46:28

## Highest Band Edge / Full RB



Date: 30.SEP.2017 17:51:13