



# FCC RADIO TEST REPORT

**FCC ID** : RWO-RZ350259  
**Equipment** : Smartphone  
**Brand Name** : RAZER  
**Model Name** : RZ35-0259  
**Applicant** : Razer Inc.  
201 3rd Street, Suite 900, San Francisco,  
CA 94103, USA  
**Manufacturer** : Razer Inc.  
201 3rd Street, Suite 900, San Francisco,  
CA 94103, USA  
**Standard** : FCC 47 CFR Part 2, and 90(S)

The product was received on Jul. 17, 2018 and testing was started from Aug. 08, 2018 and completed on Sep. 28, 2018. 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-603-E and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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

Approved by: Joseph Lin

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**  
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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### History of this test report

| Report No. | Version | Description             | Issued Date   |
|------------|---------|-------------------------|---------------|
| FG871722E  | 01      | Initial issue of report | Sep. 27, 2018 |
|            |         |                         |               |
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### Summary of Test Result

| Report Clause | Ref Std. Clause    | Test Items  | Result (PASS/FAIL) | Remark                                     |
|---------------|--------------------|---|--------------------|--|
| 3.2           | §2.1046<br>§90.635 | Conducted Output Power and Effective Radiated Power | Pass               | -  |
| 3.3           | -                  | Peak-to-Average Ratio                               | Reporting only     | -  |
| 3.4           | §2.1049<br>§90.209 | Occupied Bandwidth and 26dB Bandwidth               | Reporting only     | -  |
| 3.5           | §2.1051<br>§90.691 | Emission masks – In-band emissions                  | Pass               | -  |
| 3.6           | §2.1051<br>§90.691 | Emission masks – Out of band emissions              | Pass               | -  |
| 3.7           | §2.1055<br>§90.213 | Frequency Stability for Temperature & Voltage       | Pass               | -  |
| 3.8           | §2.1053<br>§90.691 | Field Strength of Spurious Radiation                | Pass               | Under limit<br>34.73 dB at<br>2464.000 MHz |

Reviewed by: Wii Chang

Report Producer: Maggie Chiang



# 1 General Description

## 1.1 Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n/ac, NFC, WPC, and GNSS

| Product Specification subjective to this standard |  |
|---|--|
| <b>Antenna Type</b>                               | WWAN: PIFA Antenna<br>WLAN<br><Ant. 1>: PIFA Antenna<br><Ant. 2>: PIFA Antenna<br>Bluetooth: PIFA Antenna<br>GPS/Glonass/BDS: PIFA Antenna<br>NFC: Loop Antenna<br>WPC: Loop antenna |

## 1.2 Modification of EUT

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

## 1.3 Testing Site

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1190 and TW0007 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, Huaya 1st Rd., Guishan Dist.,<br>Taoyuan City, Taiwan (R.O.C.)<br>TEL: +886-3-327-3456<br>FAX: +886-3-328-4978 |
| <b>Test Site No.</b>      | <p style="text-align: center;"><b>Sporton Site No.</b></p> <p style="text-align: center;">TH05-HY</p>                 |

**Note:** The test site complies with ANSI C63.4 2014 requirement.

|                           |   |
|---------------------------|---|
| <b>Test Site</b>          | SPORTON INTERNATIONAL INC.  |
| <b>Test Site Location</b> | No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist.,<br>Taoyuan City, Taiwan (R.O.C.)<br>TEL: +886-3-327-0868<br>FAX: +886-3-327-0855 |
| <b>Test Site No.</b>      | <p style="text-align: center;"><b>Sporton Site No.</b></p> <p style="text-align: center;">03CH13-HY</p>                                   |

**Note:** The test site complies with ANSI C63.4 2014 requirement.



## 1.4 Applied Standards

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

- ♦ FCC 47 CFR Part 2, 90
- ♦ ANSI / TIA-603-E
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦ Interim Guidance for Equipment Authorization of Devices with Channel Bandwidths Combined Across Two Contiguous Service Rule Allocations OET/Lab/EACB, June 6, 2013

**Remark:**

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

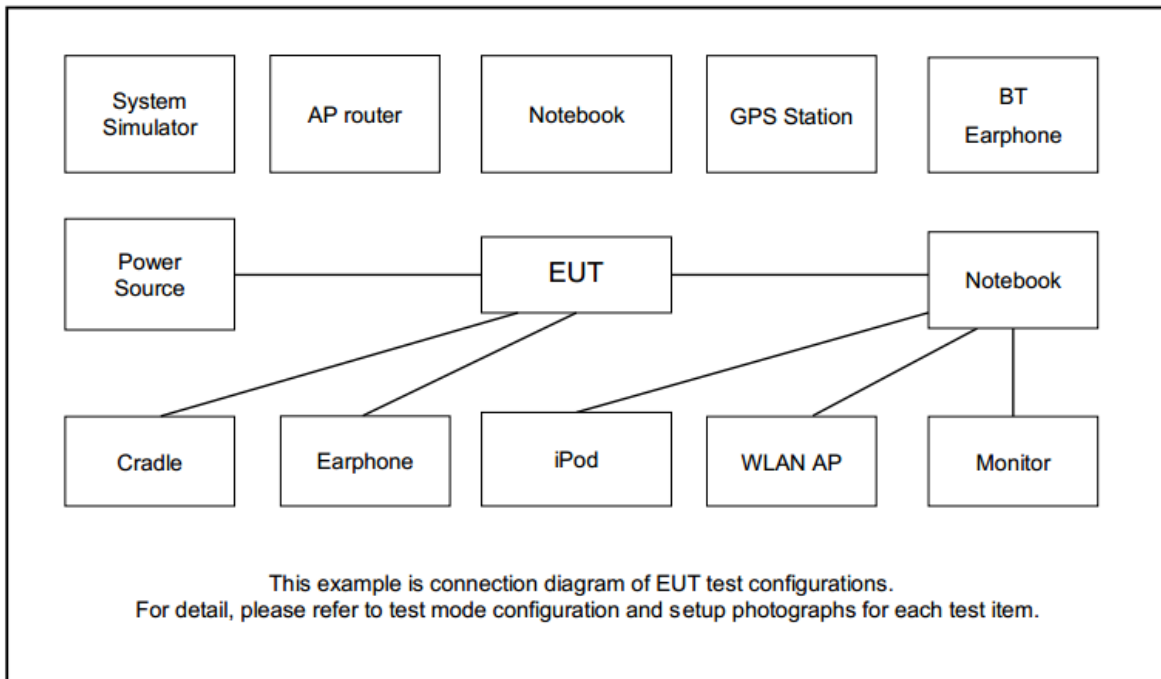
During all testing, EUT is in link mode with base station emulator at maximum power level.

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Z plane for Main Antenna and Y Plane for Aux. Antenna) were recorded in this report.

Frequency range investigated for radiated emission is 30 MHz to 9000 MHz.

| Conducted Test Cases                   | 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                      | 26   | v               | v | v | v  | v  | -  | v          | v     | v     | v    | v    | v    | v            | v | v |
| Peak-to-Average Ratio                  | 26   |                 |   |   |    | v  | -  | v          | v     | v     | v    |      | v    | v            | v | v |
| 26dB and 99% Bandwidth                 | 26   | v               | v | v | v  | v  | -  | v          | v     | v     |      |      | v    | v            | v | v |
| Emission masks In-band emissions       | 26   | v               | v | v | v  | v  | -  | v          | v     | v     | v    |      | v    | v            |   | v |
| Emission masks – Out of band emissions | 26   | v               | v | v | v  | v  | -  | v          | v     | v     | v    |      |      | v            | v | v |
| Frequency Stability                    | 26   | -               | - |   | v  | v  | -  | v          | v     | v     |      |      | v    |              | v |   |
| E.R.P.                                 | 26   |                 |   |   |    | v  | -  | v          | v     | v     | v    |      |      | v            | v | v |
| Radiated Spurious Emission             | 26   | Worst Case      |   |   |    |    |    |            |       |       |      |      | v    | v            | v |   |
| Remark                                 | <ol style="list-style-type: none"> <li>The mark "v" means that this configuration is chosen for testing</li> <li>The mark "-" means that this bandwidth is not supported.</li> <li>LTE Band26 transmit frequency for part22 rule is 824MHz-849MHz, for part90 rule is 814MHz-824MHz. ERP over 15MHz bandwidth complies the ERP limit line of part22 rule, therefore ERP of the partial frequency spectrum which falls within part 22 also complies.</li> <li>All the radiated test cases were performed with Adapter 1.</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 | Anritsu    | MT8820C   | N/A    | N/A        | Unshielded, 1.8 m |
| 2.   | System Simulator | Anritsu    | MT8821C   | 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 RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

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

*Offset = RF cable loss + attenuator factor.*

The following shows an offset computation example with RF cable loss 4.2 dB and a 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 26 Channel and Frequency List |                        |        |        |         |
|--|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 15                                     | Channel                | 26765  | -      | -       |
|  | Frequency              | 821.5  | -      | -       |
| 10                                     | Channel                | -      | 26740  | -       |
|  | Frequency              | -      | 819    | -       |
| 5                                      | Channel                | 26715  | 26740  | 26765   |
|  | Frequency              | 816.5  | 819    | 821.5   |
| 3                                      | Channel                | 26705  | 26740  | 26775   |
|  | Frequency              | 815.5  | 819    | 822.5   |
| 1.4                                    | Channel                | 26697  | 26740  | 26783   |
|  | Frequency              | 814.7  | 819    | 823.3   |

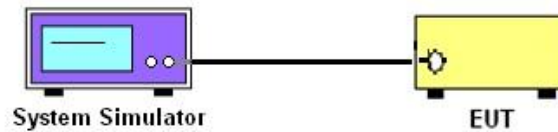
### 3 Conducted Test Items

#### 3.1 Measuring Instruments

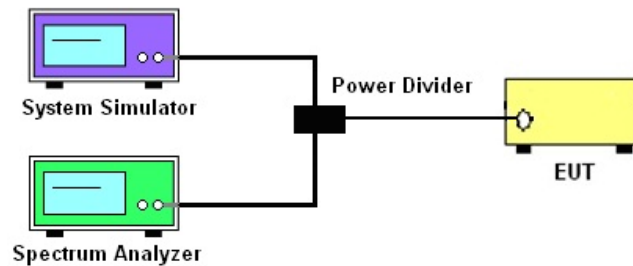
See list of measuring instruments of this test report.

##### 3.1.1 Test Setup

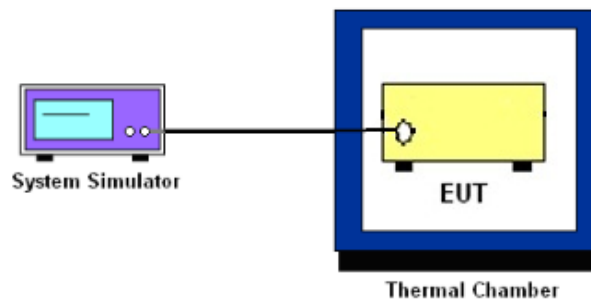
##### 3.1.2 Conducted Output Power



##### 3.1.3 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge, Emission Mask, Emissions Mask – Out Of Band Emissions, and Conducted Spurious Emission



##### 3.1.4 Frequency Stability



##### 3.1.5 Test Result of Conducted Test

Please refer to Appendix A.



## 3.2 Conducted Output Power Measurement and ERP Measurement

### 3.2.1 Description of the Conducted Output Power Measurement and ERP Measurement

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

The ERP of mobile transmitters must not exceed 7 Watts for LTE Band 26.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$ , where

$P_T$  = transmitter output power in dBm

$G_T$  = gain of the transmitting antenna in dBi

$L_C$  = signal attenuation in the connecting cable between the transmitter and antenna in dB

### 3.2.2 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through 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.



### **3.3 Peak-to-Average Ratio**

#### **3.3.1 Description of the PAR Measurement**

Reporting only

#### **3.3.2 Test Procedures**

1. The EUT was connected to spectrum and system simulator via a power divider.
2. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
3. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
4. Record the deviation as Peak to Average Ratio.



## **3.4 99% Occupied Bandwidth and 26dB Bandwidth Measurement**

### **3.4.1 Description of (Occupied) Bandwidth Limitations Measurement**

The 99% 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 emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

### **3.4.2 Test Procedures**

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The 26dB and 99% occupied bandwidth (BW) of the middle channel for the highest RF power with full RB sizes were measured.



### 3.5 Emissions Mask Measurement

#### 3.5.1 Description of Emissions Mask Measurement

Equipment used in this licensed to EA or non-EA systems shall comply with the emission mask provisions of FCC Part 90.691.(a)

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

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

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \text{ Log}_{10}(P)$  decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

#### 3.5.2 Test Procedures

1. The EUT was connected to spectrum analyzer and base station via power divider.
2. The emissions mask of low and high channels for the highest RF powers were measured.
3. The measured RBW and the VBW set 3 times of RBW are then set in spectrum analyzer, and
4. the RBW correction factor  $10 \log (1\% \text{ of } \text{OBW}/\text{measured RBW})(\text{dB})$  was compensated, if required.
5. The test results were shown below plots with a correction offset factor including cable loss, insertion loss of power divider.



### **3.6 Emissions Mask – Out Of Band Emissions Measurement**

#### **3.6.1 Description of Conducted Emissions Out of band emissions measurement**

The power of any emission FCC Part 90.691 (a)(2) on any frequency removed from the assigned frequency by out of the authorized bandwidth at least  $43 + 10 \log (P)$  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.

#### **3.6.2 Test Procedures**

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. 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.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. The limit line is derived from  $43 + 10\log(P)$ dB below the transmitter power P(Watts)



## **3.7 Frequency Stability Measurement**

### **3.7.1 Description of Frequency Stability Measurement**

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

### **3.7.2 Measuring Instruments**

The measuring equipment is listed in the section 4 of this test report.

### **3.7.3 Test Procedures for Temperature Variation**

1. The EUT was set up in the thermal chamber and connected with the base station.
1. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized for three hours. Power was applied and the maximum change in frequency was recorded within one minute.
2. With power OFF, the temperature was raised in 10°C step up to 50°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.

### **3.7.4 Test Procedures for Voltage Variation**

1. The EUT was placed in a temperature chamber at 20±5° C and connected with the base station.
2. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.





## 3.8 Field Strength of Spurious Radiation Measurement

### 3.8.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. The power of any emission FCC Part 90.691 on any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth at least  $43 + 10 \log (P)$  dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

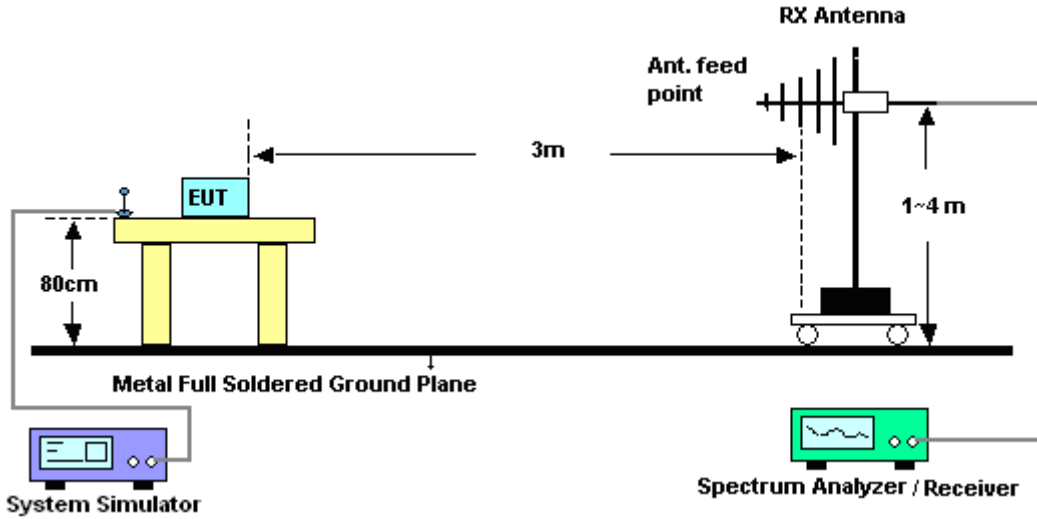
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $43+10\log_{10}(P[\text{Watts}])$  dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

### 3.8.2 Test Procedures

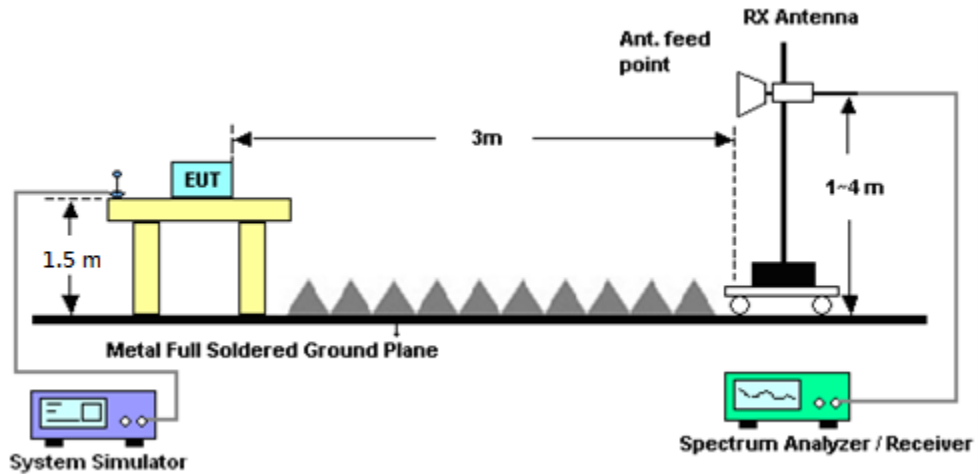
4. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
5. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
6. The table was rotated 360 degrees to determine the position of the highest spurious emission.
7. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
8. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
9. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
10. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
11. Taking the record of output power at antenna port.
12. Repeat step 7 to step 8 for another polarization.
13.  $\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$
14.  $\text{ERP (dBm)} = \text{EIRP} - 2.15$
15. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
16. The limit line is derived from  $43 + 10\log(P)$  dB below the transmitter power P(Watts)

### 3.8.3 Test Setup

For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



### 3.8.4 Test Result of Field Strength of Spurious Radiated

Please refer to Appendix B.



## 4 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. 13, 2017    | Aug. 08, 2018 ~<br>Sep. 28, 2018 | Oct. 12, 2018 | Conducted<br>(TH05-HY)   |
| Spectrum Analyzer         | Rohde & Schwarz   | FSV40                                   | 101397               | 10Hz~40GHz                          | Nov. 07, 2017    | Aug. 08, 2018 ~<br>Sep. 28, 2018 | Nov. 06, 2018 | Conducted<br>(TH05-HY)   |
| Programmable Power Supply | GW Instek         | PSS-2005                                | EL890001             | 1V~20V<br>0.5A~5A                   | Oct. 06, 2017    | Aug. 08, 2018 ~<br>Sep. 28, 2018 | Oct. 05, 2018 | Conducted<br>(TH05-HY)   |
| Coupler                   | Warison           | 1-18GHz 20dB 25WSMA Directional Coupler | #B                   | 1G~18GHz                            | Dec. 04, 2017    | Aug. 08, 2018 ~<br>Sep. 28, 2018 | Dec. 03, 2018 | Conducted<br>(TH05-HY)   |
| Loop Antenna              | Rohde & Schwarz   | HFH2-Z2                                 | 100488               | 9 kHz~30 MHz                        | Nov. 23, 2017    | Sep. 10, 2018~<br>Sep. 19, 2018  | Nov. 22, 2018 | Radiation<br>(03CH13-HY) |
| Amplifier                 | MITEQ             | TTA1840-35-HG                           | 1871923              | 18GHz~40GHz,<br>VSWR : 2.5:1<br>max | Jul. 16, 2018    | Sep. 10, 2018~<br>Sep. 19, 2018  | Jul. 15, 2019 | Radiation<br>(03CH13-HY) |
| Amplifier                 | Sonoma-Instrument | 310 N                                   | 187282               | 9KHz~1GHz                           | Dec. 21, 2016    | Sep. 10, 2018~<br>Sep. 19, 2018  | Dec. 20, 2018 | Radiation<br>(03CH13-HY) |
| Bilog Antenna             | TESEQ             | CBL<br>6111D&00800<br>N1D01N-06         | 40103&07             | 30MHz to 1GHz                       | Jan. 10, 2018    | Sep. 10, 2018~<br>Sep. 19, 2018  | Jan. 09, 2019 | Radiation<br>(03CH13-HY) |
| Horn Antenna              | SCHWARZBECK       | BBHA 9120 D                             | 9120D-124<br>1       | 1GHz ~ 18GHz                        | Jun. 29, 2018    | Sep. 10, 2018~<br>Sep. 19, 2018  | Jun. 28, 2019 | Radiation<br>(03CH13-HY) |
| Horn Antenna              | SCHWARZBECK       | BBHA 9120 D                             | 9120D-152<br>2       | 1G~18GHz                            | Sep. 07, 2018    | Sep. 10, 2018~<br>Sep. 19, 2018  | Sep. 06, 2019 | Radiation<br>(03CH13-HY) |
| Filter                    | Wainwright        | WLKS1200-8SS                            | SN3                  | 1.2G Low Pass                       | Nov. 21, 2017    | Sep. 10, 2018~<br>Sep. 19, 2018  | Nov. 20, 2018 | Radiation<br>(03CH13-HY) |
| Filter                    | Wainwright        | WHKX12-270<br>0-3000-18000<br>-60SS     | SN477220             | 3G High Pass                        | Nov. 21, 2017    | Sep. 10, 2018~<br>Sep. 19, 2018  | Nov. 20, 2018 | Radiation<br>(03CH13-HY) |
| Filter                    | Wainwright        | WHKX12-108<br>0-1200-15000<br>-60ST     | SN3                  | 1.2 GHz High pass                   | Jul. 05, 2018    | Sep. 10, 2018~<br>Sep. 19, 2018  | Jul. 04, 2019 | Radiation<br>(03CH13-HY) |
| SHF-EHF Horn Antenna      | SCHWARZBECK       | BBHA 9170                               | BBHA9170<br>251      | 18GHz- 40GHz                        | Nov. 10, 2017    | Sep. 10, 2018~<br>Sep. 19, 2018  | Nov. 09, 2018 | Radiation<br>(03CH13-HY) |
| Preamplifier              | EMEC              | EM18G40G                                | 060715               | 18GHz ~ 40GHz                       | Dec. 05, 2017    | Sep. 10, 2018~<br>Sep. 19, 2018  | Dec. 04, 2018 | Radiation<br>(03CH13-HY) |
| Preamplifier              | Jet-Power         | JPA0118-55-303                          | 171000180<br>0054001 | 1GHz~18GHz                          | Apr. 16, 2018    | Sep. 10, 2018~<br>Sep. 19, 2018  | Apr. 15, 2019 | Radiation<br>(03CH13-HY) |
| Preamplifier              | Keysight          | 83017A                                  | MY532701<br>47       | 1GHz~26.5GHz                        | Feb. 02, 2018    | Sep. 10, 2018~<br>Sep. 19, 2018  | Feb. 01, 2019 | Radiation<br>(03CH13-HY) |
| Spectrum Analyzer         | Keysight          | N9010A                                  | MY553705<br>26       | 10Hz~44GHz                          | Mar. 15, 2018    | Sep. 10, 2018~<br>Sep. 19, 2018  | Mar. 14, 2019 | Radiation<br>(03CH13-HY) |
| Antenna Mast              | EMEC              | AM-BS-4500-B                            | N/A                  | 1m~4m                               | N/A              | Sep. 10, 2018~<br>Sep. 19, 2018  | N/A           | Radiation<br>(03CH13-HY) |
| Turn Table                | EMEC              | TT2000                                  | N/A                  | 0~360 Degree                        | N/A              | Sep. 10, 2018~<br>Sep. 19, 2018  | N/A           | Radiation<br>(03CH13-HY) |



| Instrument       | Manufacturer      | Model No.          | Serial No.    | Characteristics | Calibration Date | Test Date                       | Due Date      | Remark                   |
|------------------|-------------------|--------------------|---------------|-----------------|------------------|---------------------------------|---------------|--------------------------|
| Signal Generator | Anritsu           | MG3694C            | 163401        | 0.1Hz~40GHz     | Jan. 15, 2018    | Sep. 10, 2018~<br>Sep. 19, 2018 | Jan. 14, 2019 | Radiation<br>(03CH13-HY) |
| RF Cable         | HUBER +<br>SUHNER | SUCOFLEX<br>126E   | 0030/126E     | 30M-18G         | Jan. 22, 2018    | Sep. 10, 2018~<br>Sep. 19, 2018 | Jan. 21, 2019 | Radiation<br>(03CH13-HY) |
| RF Cable         | HUBER +<br>SUHNER | SUCOFLEX<br>104    | 335041/4      | 30M-18G         | Jan. 22, 2018    | Sep. 10, 2018~<br>Sep. 19, 2018 | Jan. 21, 2019 | Radiation<br>(03CH13-HY) |
| RF Cable         | HUBER +<br>SUHNER | SUCOFLEX<br>104    | MY24961/<br>4 | 30M~18GHz       | Jan. 22, 2018    | Sep. 10, 2018~<br>Sep. 19, 2018 | Jan. 21, 2019 | Radiation<br>(03CH13-HY) |
| RF Cable         | HUBER +<br>SUHNER | SUCOFLEX<br>102    | 505134/2      | 30M~40GHz       | Oct. 17, 2017    | Sep. 10, 2018~<br>Sep. 19, 2018 | Oct. 16, 2018 | Radiation<br>(03CH13-HY) |
| RF Cable         | HUBER +<br>SUHNER | SUCOFLEX<br>102    | 800740/2      | 30M~40GHz       | Oct. 17, 2017    | Sep. 10, 2018~<br>Sep. 19, 2018 | Oct. 16, 2018 | Radiation<br>(03CH13-HY) |
| Software         | AUDIX             | E3<br>6.2009-8-24c | RK-001124     | N/A             | N/A              | Sep. 10, 2018~<br>Sep. 19, 2018 | N/A           | Radiation<br>(03CH13-HY) |



## 5 Uncertainty of Evaluation

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

|   |      |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 3.07 |
|---|------|

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

|   |      |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 3.48 |
|---|------|

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

|   |      |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 3.92 |
|---|------|



## Appendix A. Test Results of Conducted Test

### Conducted Output Power(Average power)

| LTE Band 26 Maximum Average Power [dBm] |         |           |        |              |        |         |
|---|---------|-----------|--------|--------------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest       | Middle | Highest |
| 15                                      | 1       | 0         | QPSK   | <b>23.92</b> | -      | -       |
| 15                                      | 1       | 37        |        | 23.89        | -      | -       |
| 15                                      | 1       | 74        |        | 23.86        | -      | -       |
| 15                                      | 36      | 0         |        | 22.80        | -      | -       |
| 15                                      | 36      | 20        |        | 22.89        | -      | -       |
| 15                                      | 36      | 39        |        | 22.82        | -      | -       |
| 15                                      | 75      | 0         |        | 22.90        | -      | -       |
| 15                                      | 1       | 0         | 16-QAM | 22.86        | -      | -       |
| 15                                      | 1       | 37        |        | 22.95        | -      | -       |
| 15                                      | 1       | 74        |        | 22.86        | -      | -       |
| 15                                      | 36      | 0         |        | 21.68        | -      | -       |
| 15                                      | 36      | 20        |        | 21.66        | -      | -       |
| 15                                      | 36      | 39        |        | 21.78        | -      | -       |
| 15                                      | 75      | 0         |        | 21.75        | -      | -       |
| 15                                      | 1       | 0         | 64-QAM | 21.78        | -      | -       |
| 15                                      | 1       | 37        |        | 21.88        | -      | -       |
| 15                                      | 1       | 74        |        | 21.69        | -      | -       |
| 15                                      | 36      | 0         |        | 20.65        | -      | -       |
| 15                                      | 36      | 20        |        | 20.73        | -      | -       |
| 15                                      | 36      | 39        |        | 20.72        | -      | -       |
| 15                                      | 75      | 0         |        | 20.81        | -      | -       |
| 10                                      | 1       | 0         | QPSK   | -            | 23.72  | -       |
| 10                                      | 1       | 25        |        | -            | 23.72  | -       |
| 10                                      | 1       | 49        |        | -            | 23.71  | -       |
| 10                                      | 25      | 0         |        | -            | 22.79  | -       |
| 10                                      | 25      | 12        |        | -            | 22.85  | -       |
| 10                                      | 25      | 25        |        | -            | 22.83  | -       |
| 10                                      | 50      | 0         |        | -            | 22.77  | -       |
| 10                                      | 1       | 0         | 16-QAM | -            | 22.63  | -       |
| 10                                      | 1       | 25        |        | -            | 22.80  | -       |
| 10                                      | 1       | 49        |        | -            | 22.94  | -       |
| 10                                      | 25      | 0         |        | -            | 21.73  | -       |
| 10                                      | 25      | 12        |        | -            | 21.88  | -       |
| 10                                      | 25      | 25        |        | -            | 21.77  | -       |
| 10                                      | 50      | 0         |        | -            | 21.90  | -       |
| 10                                      | 1       | 0         | 64-QAM | -            | 21.77  | -       |
| 10                                      | 1       | 25        |        | -            | 21.89  | -       |
| 10                                      | 1       | 49        |        | -            | 21.68  | -       |
| 10                                      | 25      | 0         |        | -            | 20.73  | -       |
| 10                                      | 25      | 12        |        | -            | 20.98  | -       |
| 10                                      | 25      | 25        |        | -            | 20.88  | -       |
| 10                                      | 50      | 0         |        | -            | 20.81  | -       |



| LTE Band 26 Maximum Average Power [dBm] |         |           |        |        |        |         |
|---|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 5                                       | 1       | 0         | QPSK   | 23.77  | 23.81  | 23.67   |
| 5                                       | 1       | 12        |        | 23.81  | 23.75  | 23.78   |
| 5                                       | 1       | 24        |        | 23.84  | 23.69  | 23.69   |
| 5                                       | 12      | 0         |        | 22.67  | 22.81  | 22.68   |
| 5                                       | 12      | 7         |        | 22.75  | 22.70  | 22.77   |
| 5                                       | 12      | 13        |        | 22.88  | 22.75  | 22.82   |
| 5                                       | 25      | 0         |        | 22.78  | 22.75  | 22.65   |
| 5                                       | 1       | 0         | 16-QAM | 22.71  | 22.73  | 22.77   |
| 5                                       | 1       | 12        |        | 22.72  | 22.71  | 22.76   |
| 5                                       | 1       | 24        |        | 22.73  | 22.80  | 22.63   |
| 5                                       | 12      | 0         |        | 21.75  | 21.80  | 21.79   |
| 5                                       | 12      | 7         |        | 21.86  | 21.91  | 21.82   |
| 5                                       | 12      | 13        |        | 21.79  | 21.88  | 21.83   |
| 5                                       | 25      | 0         |        | 21.67  | 21.88  | 21.82   |
| 5                                       | 1       | 0         | 64-QAM | 21.80  | 21.81  | 21.71   |
| 5                                       | 1       | 12        |        | 21.73  | 21.70  | 21.62   |
| 5                                       | 1       | 24        |        | 21.80  | 21.83  | 21.81   |
| 5                                       | 12      | 0         |        | 20.79  | 20.85  | 20.92   |
| 5                                       | 12      | 7         |        | 20.82  | 20.77  | 20.91   |
| 5                                       | 12      | 13        |        | 20.84  | 20.93  | 20.93   |
| 5                                       | 25      | 0         |        | 20.67  | 20.90  | 20.73   |
| 3                                       | 1       | 0         | QPSK   | 23.76  | 23.74  | 23.60   |
| 3                                       | 1       | 8         |        | 23.68  | 23.79  | 23.72   |
| 3                                       | 1       | 14        |        | 23.72  | 23.77  | 23.70   |
| 3                                       | 8       | 0         |        | 22.84  | 22.70  | 22.63   |
| 3                                       | 8       | 4         |        | 22.66  | 22.67  | 22.62   |
| 3                                       | 8       | 7         |        | 22.76  | 22.68  | 22.67   |
| 3                                       | 15      | 0         |        | 22.69  | 22.70  | 22.61   |
| 3                                       | 1       | 0         | 16-QAM | 22.76  | 22.74  | 22.71   |
| 3                                       | 1       | 8         |        | 22.66  | 22.80  | 22.65   |
| 3                                       | 1       | 14        |        | 22.80  | 22.74  | 22.74   |
| 3                                       | 8       | 0         |        | 21.71  | 22.00  | 21.87   |
| 3                                       | 8       | 4         |        | 21.87  | 21.77  | 21.85   |
| 3                                       | 8       | 7         |        | 21.80  | 21.89  | 21.82   |
| 3                                       | 15      | 0         |        | 21.76  | 21.93  | 21.74   |
| 3                                       | 1       | 0         | 64-QAM | 21.86  | 21.76  | 21.69   |
| 3                                       | 1       | 8         |        | 21.88  | 21.68  | 21.76   |
| 3                                       | 1       | 14        |        | 21.67  | 21.70  | 21.78   |
| 3                                       | 8       | 0         |        | 20.80  | 20.94  | 20.79   |
| 3                                       | 8       | 4         |        | 20.99  | 20.80  | 20.81   |
| 3                                       | 8       | 7         |        | 20.90  | 20.80  | 20.90   |
| 3                                       | 15      | 0         |        | 20.91  | 20.79  | 20.71   |



| LTE Band 26 Maximum Average Power [dBm] |         |           |        |        |        |         |
|---|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 1.4                                     | 1       | 0         | QPSK   | 23.69  | 23.67  | 23.64   |
| 1.4                                     | 1       | 3         |        | 23.67  | 23.62  | 23.62   |
| 1.4                                     | 1       | 5         |        | 23.66  | 23.61  | 23.56   |
| 1.4                                     | 3       | 0         |        | 23.69  | 23.69  | 23.56   |
| 1.4                                     | 3       | 1         |        | 23.73  | 23.61  | 23.58   |
| 1.4                                     | 3       | 3         |        | 23.59  | 23.67  | 23.54   |
| 1.4                                     | 6       | 0         |        | 22.73  | 22.69  | 22.67   |
| 1.4                                     | 1       | 0         | 16-QAM | 22.65  | 22.76  | 22.81   |
| 1.4                                     | 1       | 3         |        | 22.75  | 22.66  | 22.69   |
| 1.4                                     | 1       | 5         |        | 22.82  | 22.86  | 22.67   |
| 1.4                                     | 3       | 0         |        | 22.92  | 22.83  | 22.76   |
| 1.4                                     | 3       | 1         |        | 22.78  | 22.76  | 22.77   |
| 1.4                                     | 3       | 3         |        | 22.83  | 22.79  | 22.61   |
| 1.4                                     | 6       | 0         |        | 21.85  | 21.88  | 21.69   |
| 1.4                                     | 1       | 0         | 64-QAM | 21.77  | 21.87  | 21.93   |
| 1.4                                     | 1       | 3         |        | 21.71  | 21.82  | 21.74   |
| 1.4                                     | 1       | 5         |        | 21.83  | 21.95  | 21.84   |
| 1.4                                     | 3       | 0         |        | 21.77  | 21.95  | 21.90   |
| 1.4                                     | 3       | 1         |        | 21.83  | 21.71  | 21.97   |
| 1.4                                     | 3       | 3         |        | 21.67  | 21.86  | 21.87   |
| 1.4                                     | 6       | 0         |        | 20.70  | 20.76  | 20.59   |





# LTE Band 26\_Part 90S

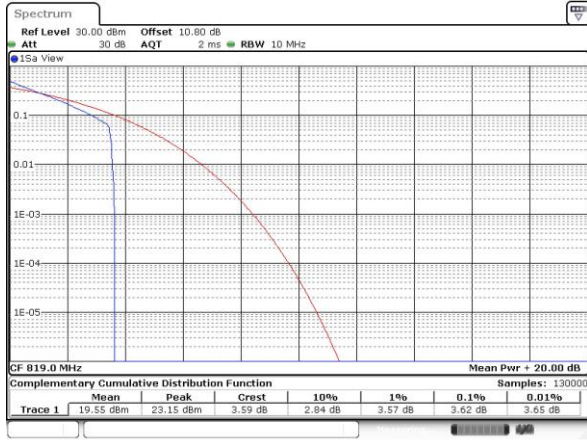
## Peak-to-Average Ratio

| Mode       | LTE Band 26 / 10MHz |         |       |         |             |
|------------|---------------------|---------|-------|---------|-------------|
| Mod.       | QPSK                |         | 16QAM |         | Limit: 13dB |
| RB Size    | 1RB                 | Full RB | 1RB   | Full RB | Result      |
| Lowest CH  | -                   | -       | -     | -       | PASS        |
| Middle CH  | 3.62                | 4.67    | 4.49  | 5.88    |             |
| Highest CH | -                   | -       | -     | -       |             |
| Mode       | LTE Band 26 / 10MHz |         |       |         |             |
| Mod.       | 64QAM               |         |       |         | Limit: 13dB |
| RB Size    | 1RB                 | Full RB |       |         | Result      |
| Lowest CH  | -                   | -       | -     | -       | PASS        |
| Middle CH  | 5.54                | 6.43    | -     | -       |             |
| Highest CH | -                   | -       | -     | -       |             |



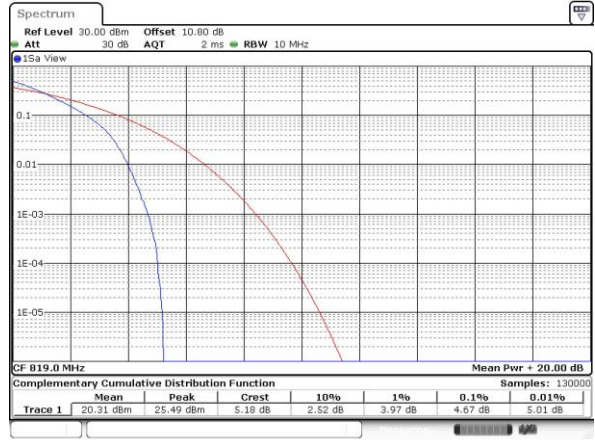
LTE Band 26 / 10MHz / QPSK

Middle Channel / 1RB



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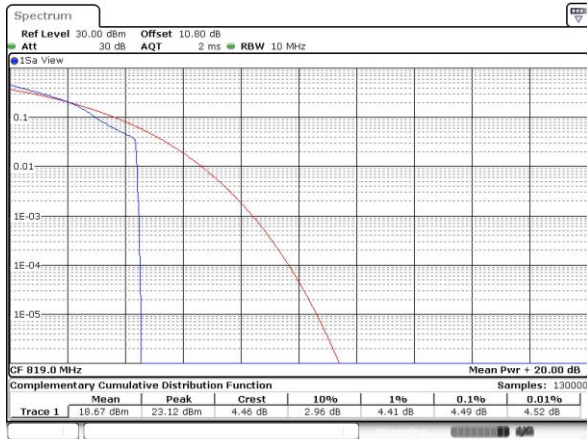
Middle Channel / Full RB



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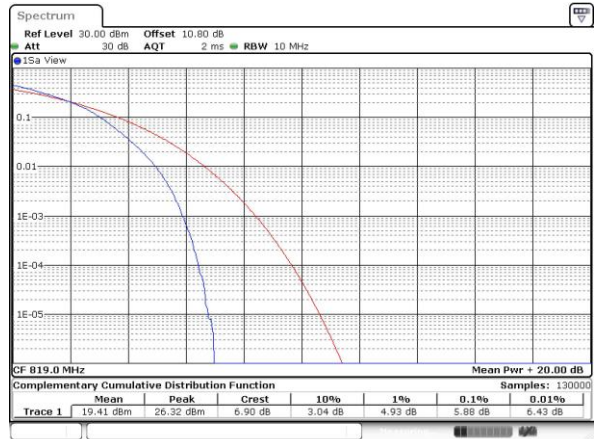
LTE Band 26 / 10MHz / 16QAM

Middle Channel / 1RB



Date: 14.SEP.2018 18:42:25

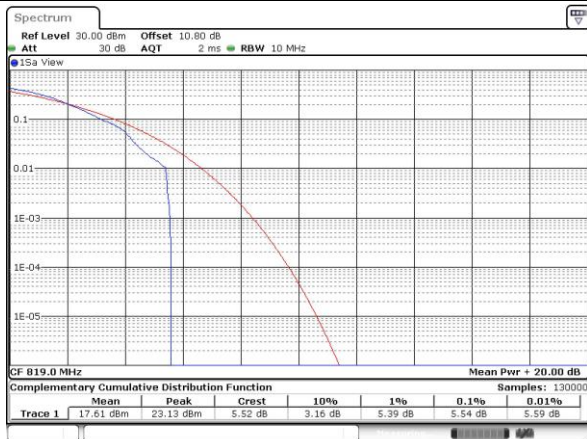
Middle Channel / Full RB



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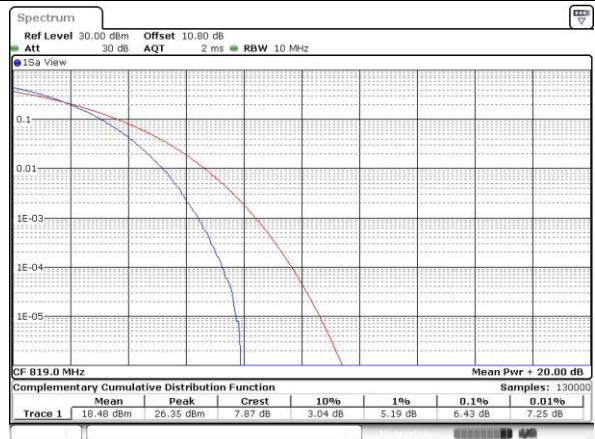
LTE Band 26 / 10MHz / 64QAM

Middle Channel / 1RB



Date: 14.SEP.2018 18:45:35

Middle Channel / Full RB



Date: 14.SEP.2018 18:46:23



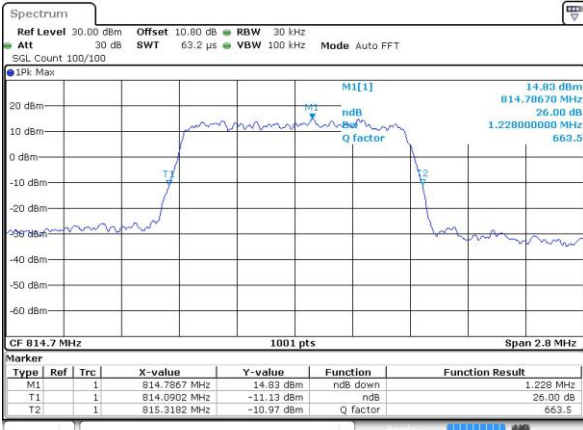
**26dB Bandwidth**

| Mode       | LTE Band 26 : 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  | 1.23                       | 1.22  | 2.96  | 3.07  | 4.95  | 4.88  | -     | -     | 14.33 | 14.33 | -     | -     |
| Middle CH  | 1.23                       | 1.25  | 3.06  | 3.01  | 4.91  | 4.87  | 9.75  | 9.93  | -     | -     | -     | -     |
| Highest CH | 1.22                       | 1.22  | 3.00  | 3.00  | 4.89  | 4.88  | -     | -     | -     | -     | -     | -     |
| Mode       | LTE Band 26 : 26dB BW(MHz) |       |       |       |       |       |       |       |       |       |       |       |
| BW         | 1.4MHz                     |       | 3MHz  |       | 5MHz  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | 64QAM                      |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       |
| Lowest CH  | 1.21                       | -     | 2.99  | -     | 4.88  | -     | -     | -     | 14.45 | -     | -     | -     |
| Middle CH  | 1.23                       | -     | 3.04  | -     | 4.90  | -     | 9.73  | -     | -     | -     | -     | -     |
| Highest CH | 1.23                       | -     | 3.03  | -     | 4.87  | -     | -     | -     | -     | -     | -     | -     |



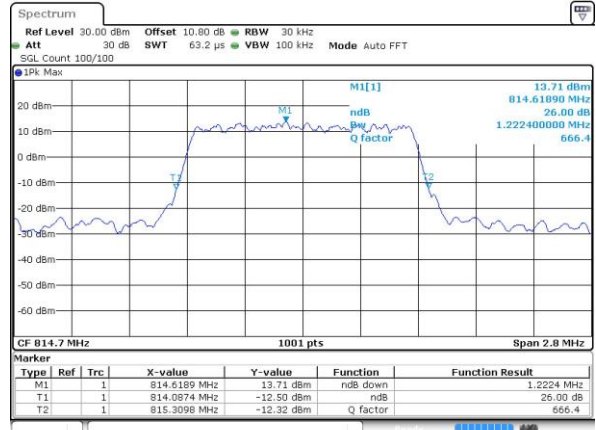
LTE Band 26

Lowest Channel / 1.4MHz / QPSK



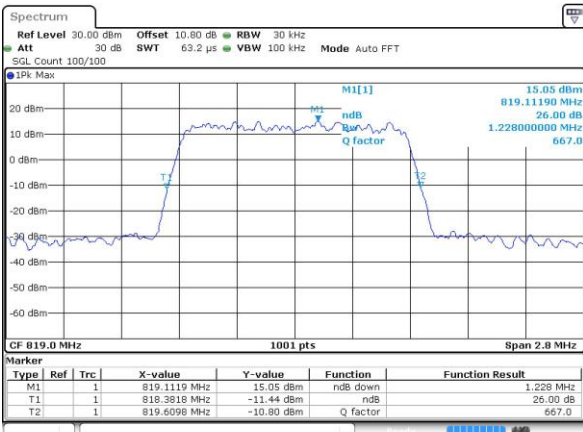
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Lowest Channel / 1.4MHz / 16QAM



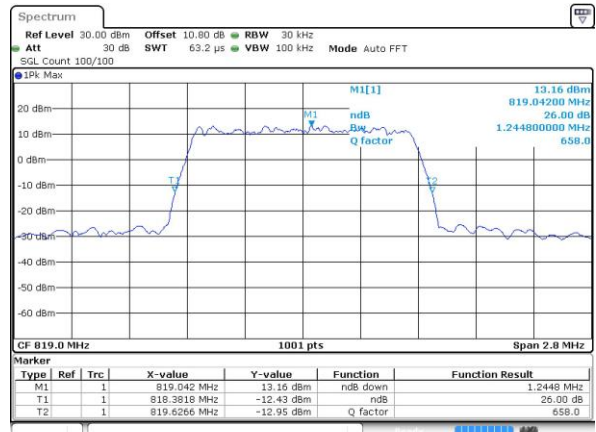
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Middle Channel / 1.4MHz / QPSK



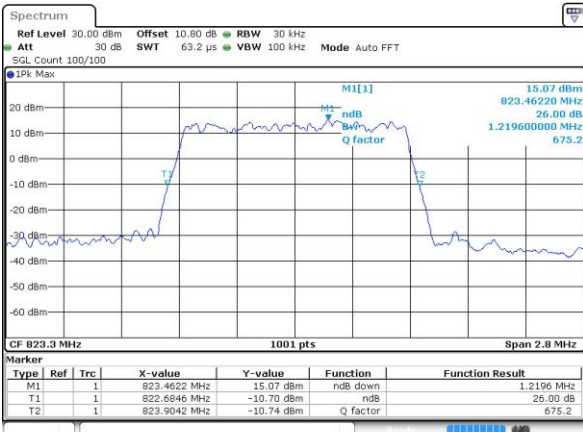
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Middle Channel / 1.4MHz / 16QAM



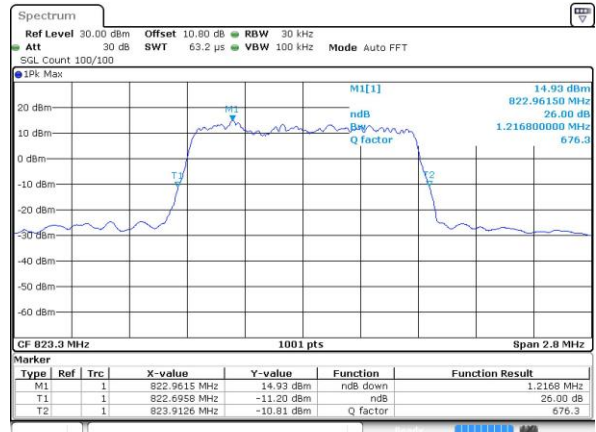
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Highest Channel / 1.4MHz / QPSK



Date: 14 SEP 2018 18:40:02

Highest Channel / 1.4MHz / 16QAM

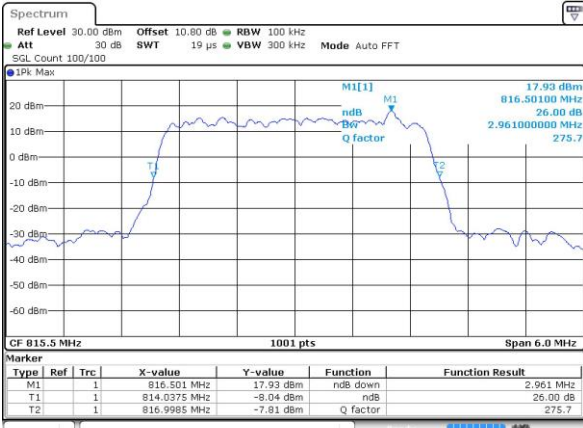


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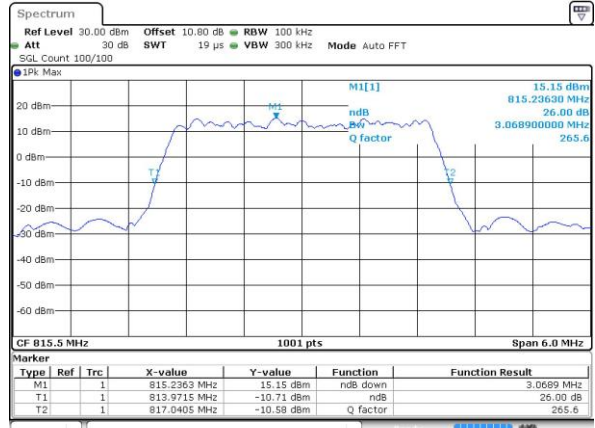
LTE Band 26

Lowest Channel / 3MHz / QPSK



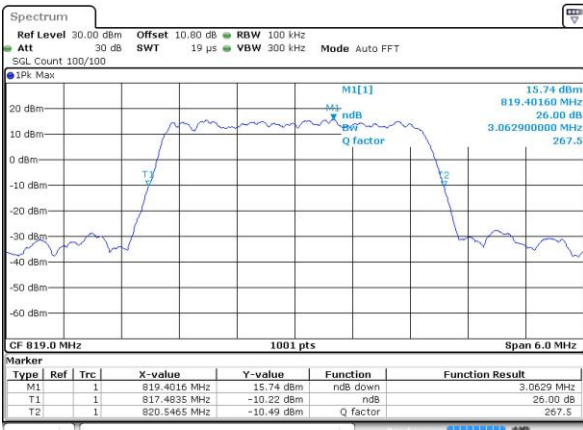
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Lowest Channel / 3MHz / 16QAM



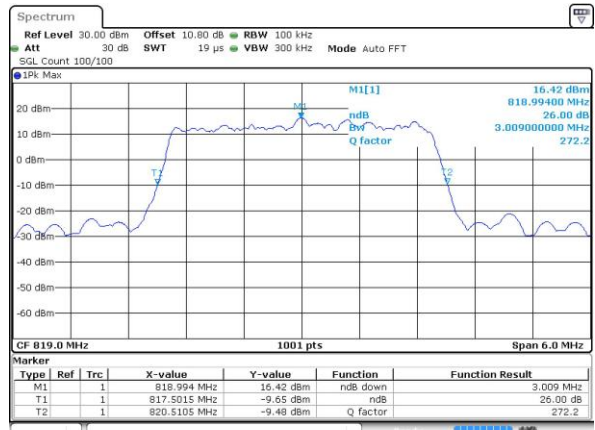
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Middle Channel / 3MHz / QPSK



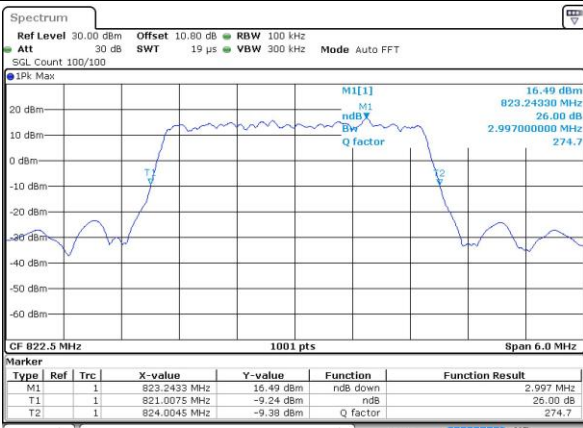
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Middle Channel / 3MHz / 16QAM



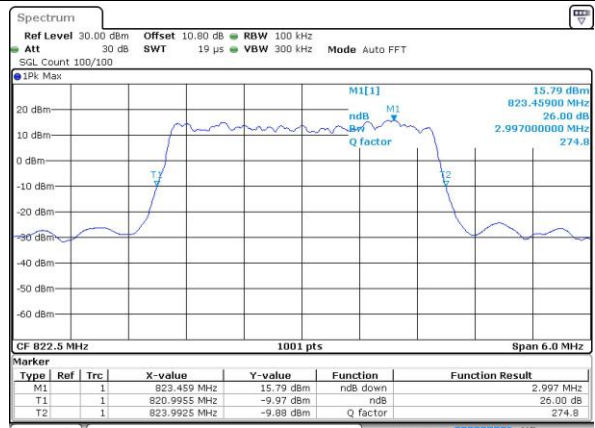
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Highest Channel / 3MHz / QPSK



Date: 14 SEP 2018 18:20:04

Highest Channel / 3MHz / 16QAM

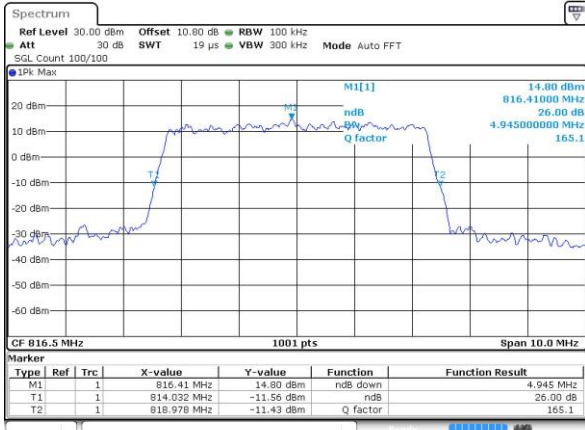


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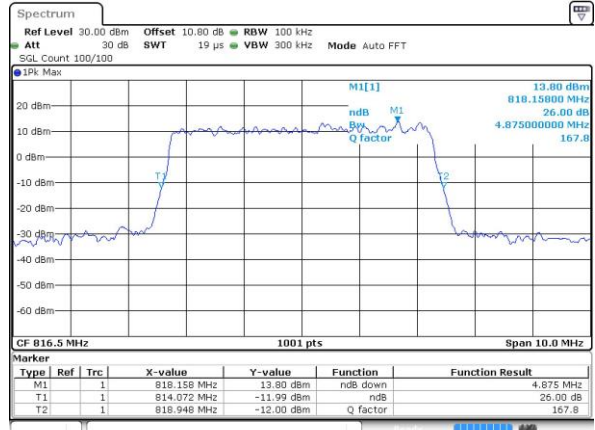
LTE Band 26

Lowest Channel / 5MHz / QPSK



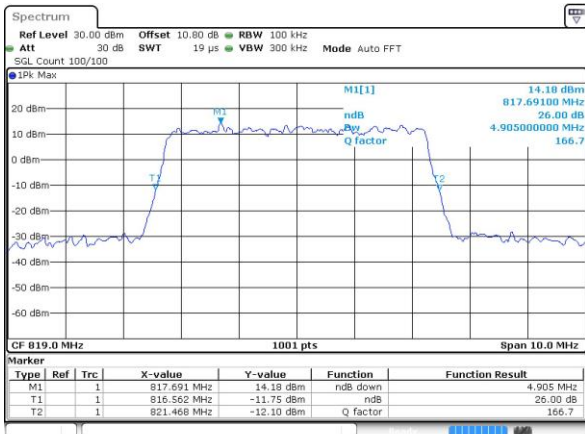
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Lowest Channel / 5MHz / 16QAM



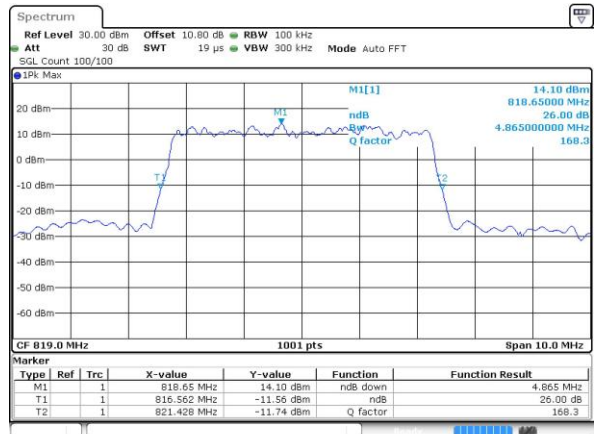
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Middle Channel / 5MHz / QPSK



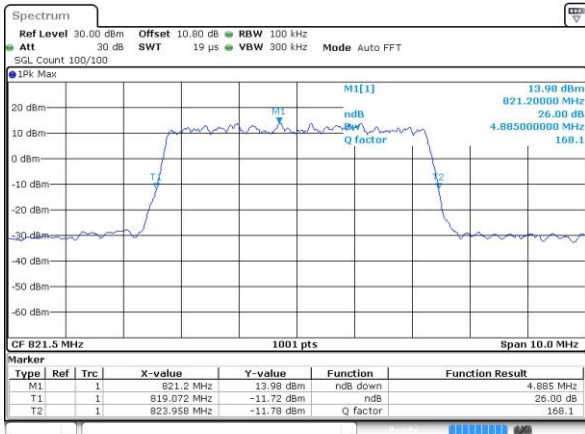
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Middle Channel / 5MHz / 16QAM



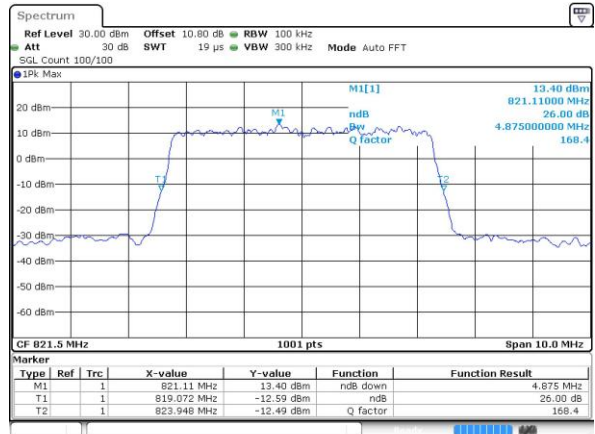
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Highest Channel / 5MHz / QPSK



Date: 14 SEP 2018 18:26:31

Highest Channel / 5MHz / 16QAM

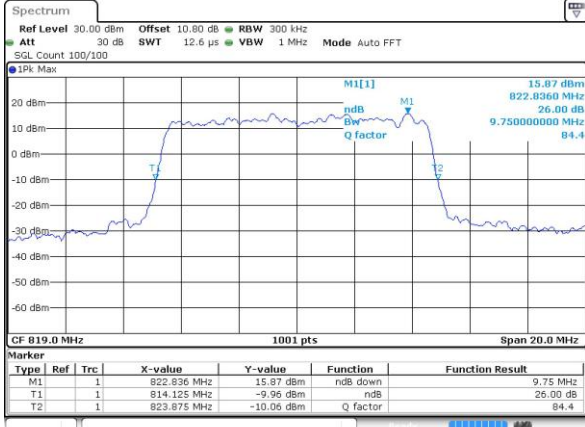


Date: 14 SEP 2018 18:26:43



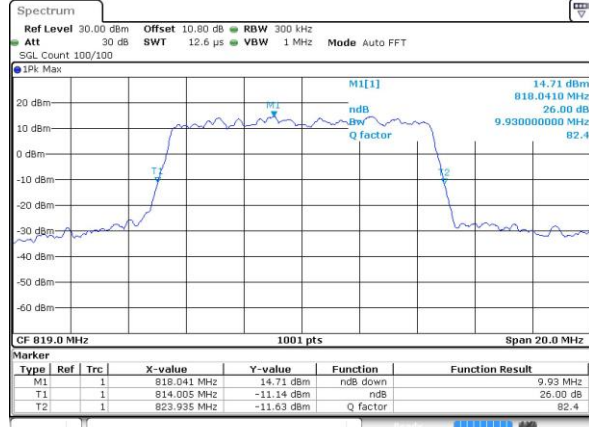
LTE Band 26

Middle Channel / 10MHz / QPSK



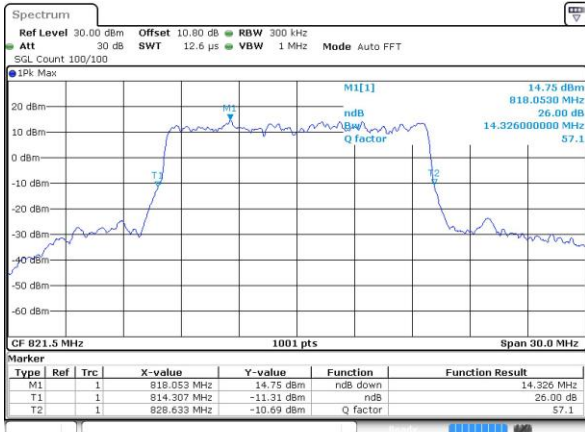
Date: 14 SEP 2018 18:28:40

Middle Channel / 10MHz / 16QAM



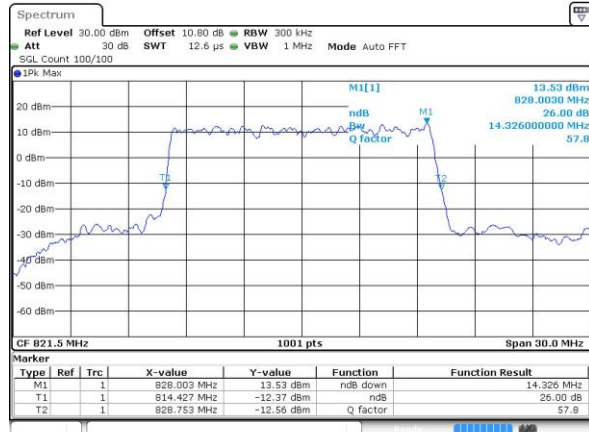
Date: 14 SEP 2018 18:28:51

Lowest Channel / 15MHz / QPSK



Date: 14 SEP 2018 18:30:49

Lowest Channel / 15MHz / 16QAM

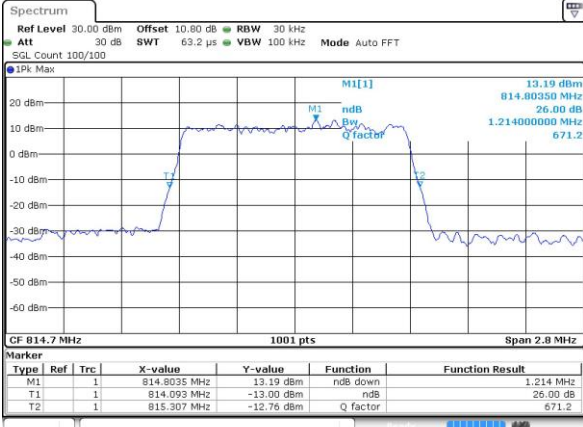


Date: 14 SEP 2018 18:31:00



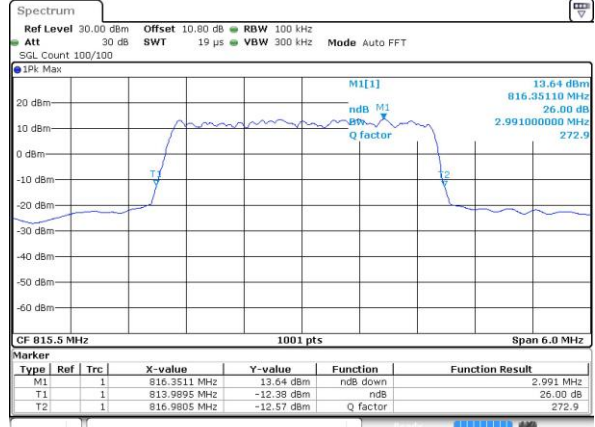
LTE Band 26

Lowest Channel / 1.4MHz / 64QAM



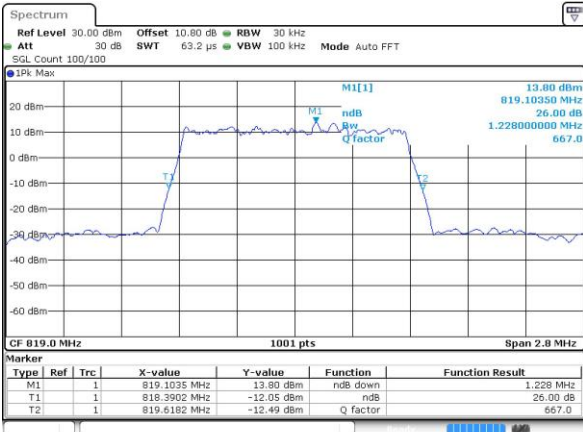
Date: 14 SEP 2018 18:12:22

Lowest Channel / 3MHz / 64QAM



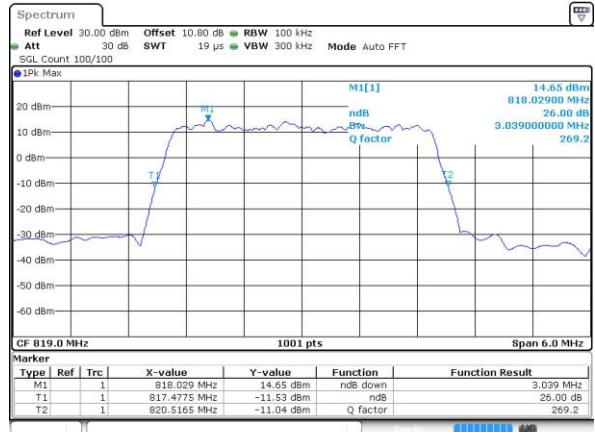
Date: 14 SEP 2018 17:45:44

Middle Channel / 1.4MHz / 64QAM



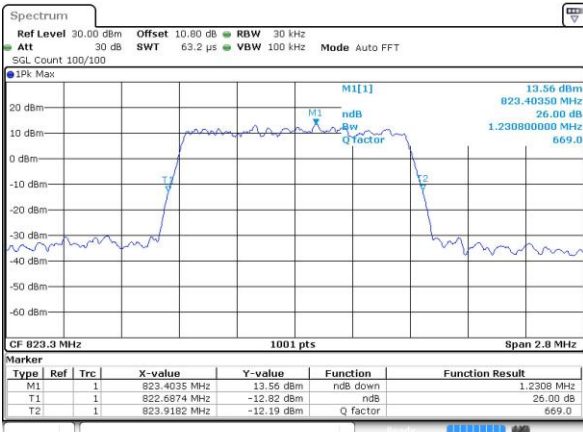
Date: 14 SEP 2018 18:13:27

Middle Channel / 3MHz / 64QAM



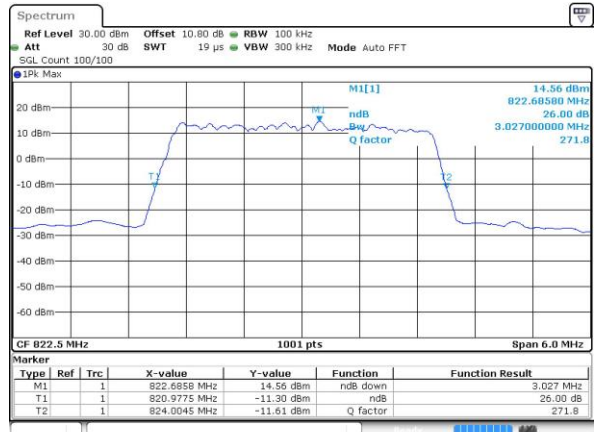
Date: 14 SEP 2018 17:46:48

Highest Channel / 1.4MHz / 64QAM



Date: 14 SEP 2018 18:14:31

Highest Channel / 3MHz / 64QAM



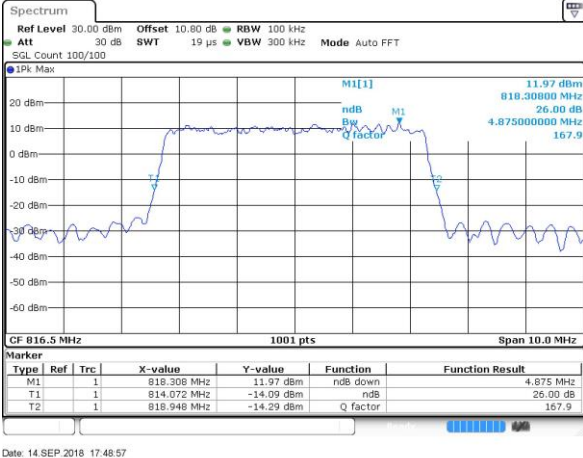
Date: 14 SEP 2018 17:47:53





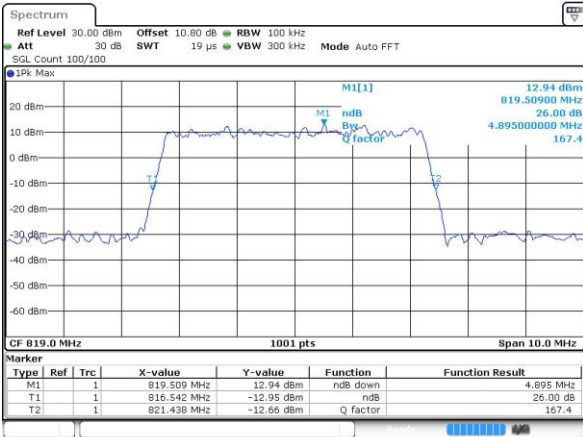
LTE Band 26

Lowest Channel / 5MHz / 64QAM



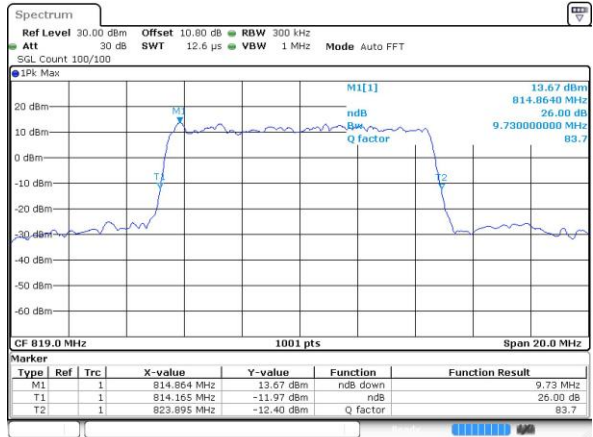
Date: 14.SEP.2016 17:48:57

Middle Channel / 5MHz / 64QAM



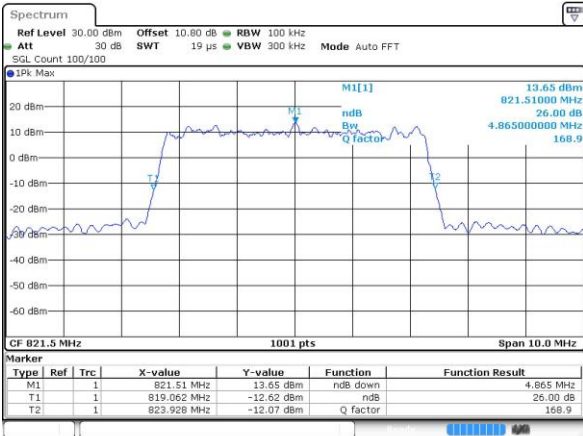
Date: 14.SEP.2016 17:50:01

Middle Channel / 10MHz / 64QAM



Date: 14.SEP.2016 17:52:10

Highest Channel / 5MHz / 64QAM

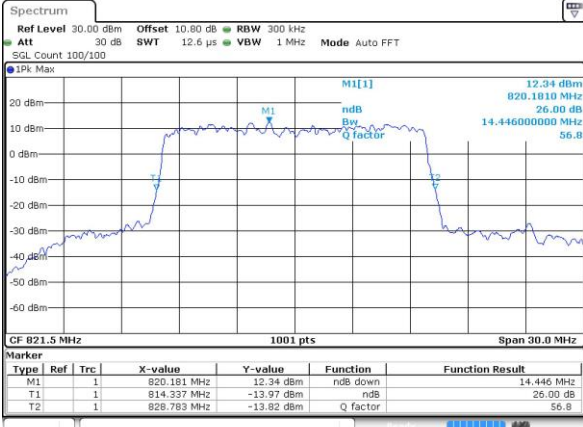


Date: 14.SEP.2016 17:51:06



LTE Band 26

Lowest Channel / 15MHz / 64QAM





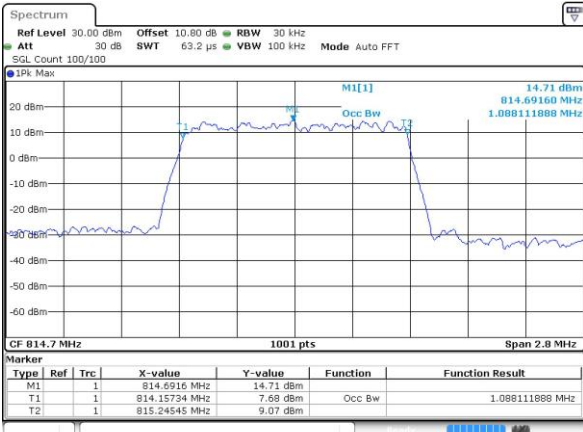
**Occupied Bandwidth**

| Mode       | LTE Band 26 : 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  | 2.73  | 4.5   | 4.49  | -     | -     | 13.34 | 13.49 | -     | -     |
| Middle CH  | 1.09                      | 1.09  | 2.72  | 2.7   | 4.48  | 4.5   | 9.07  | 9.01  | -     | -     | -     | -     |
| Highest CH | 1.09                      | 1.09  | 2.72  | 2.7   | 4.51  | 4.48  | -     | -     | -     | -     | -     | -     |
| Mode       | LTE Band 26 : 99%OBW(MHz) |       |       |       |       |       |       |       |       |       |       |       |
| BW         | 1.4MHz                    |       | 3MHz  |       | 5MHz  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | 64QAM                     |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       |
| Lowest CH  | 1.09                      | -     | 2.72  | -     | 4.52  | -     | -     | -     | 13.40 | -     | -     | -     |
| Middle CH  | 1.09                      | -     | 2.70  | -     | 4.47  | -     | 9.01  | -     | -     | -     | -     | -     |
| Highest CH | 1.09                      | -     | 2.72  | -     | 4.50  | -     | -     | -     | -     | -     | -     | -     |



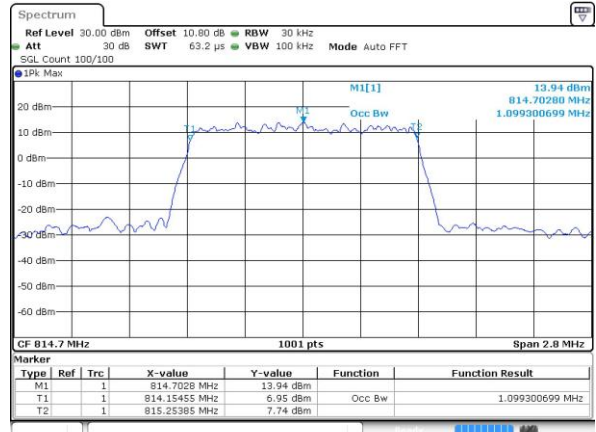
LTE Band 26

Lowest Channel / 1.4MHz / QPSK



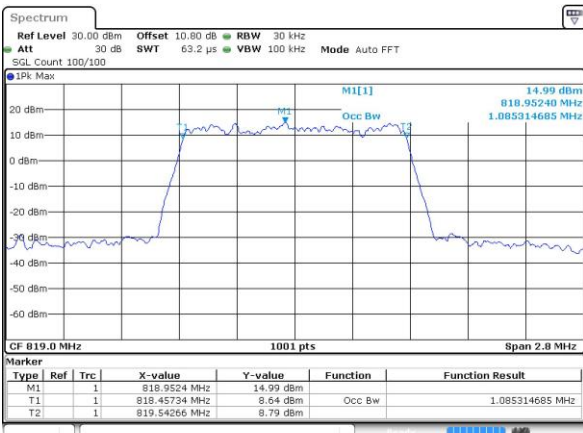
Date: 14 SEP 2018 18:35:22

Lowest Channel / 1.4MHz / 16QAM



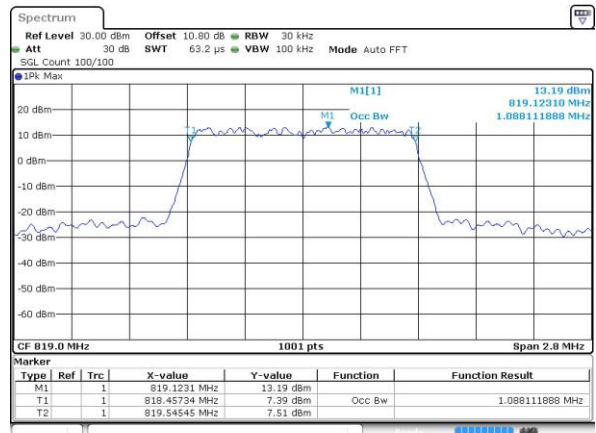
Date: 14 SEP 2018 18:35:33

Middle Channel / 1.4MHz / QPSK



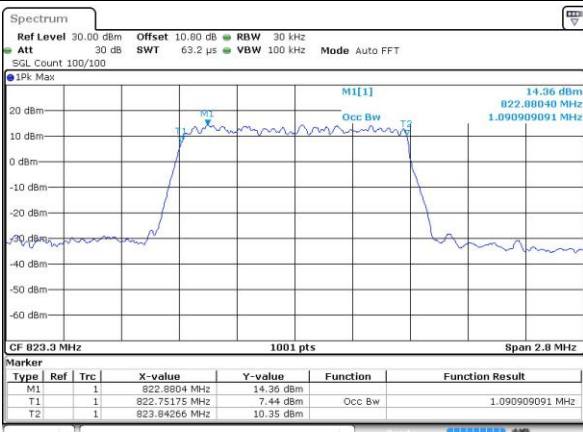
Date: 14 SEP 2018 18:37:30

Middle Channel / 1.4MHz / 16QAM



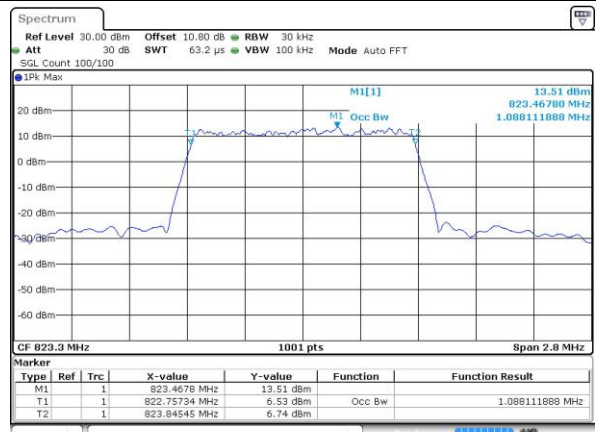
Date: 14 SEP 2018 18:37:42

Highest Channel / 1.4MHz / QPSK



Date: 14 SEP 2018 18:39:39

Highest Channel / 1.4MHz / 16QAM

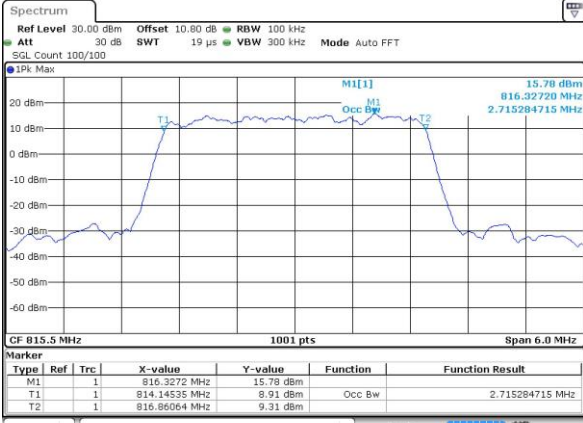


Date: 14 SEP 2018 18:39:51



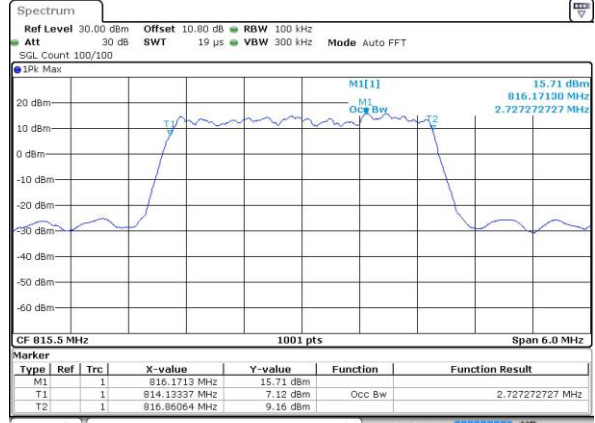
LTE Band 26

Lowest Channel / 3MHz / QPSK



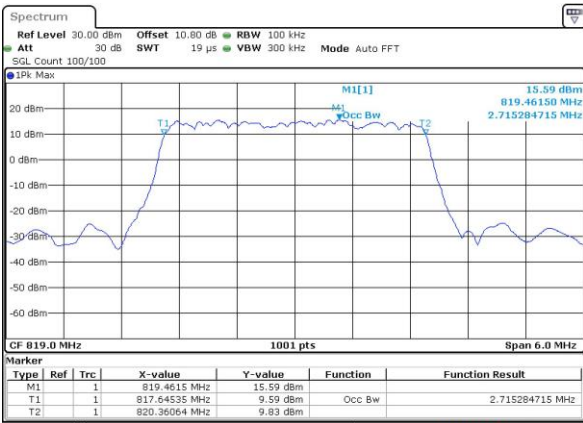
Date: 14 SEP 2018 18:15:24

Lowest Channel / 3MHz / 16QAM



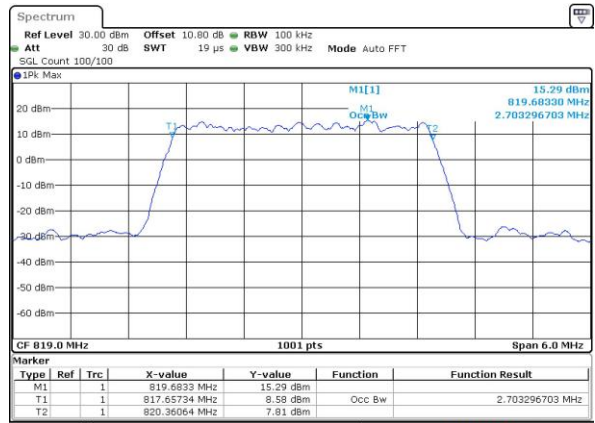
Date: 14 SEP 2018 18:15:36

Middle Channel / 3MHz / QPSK



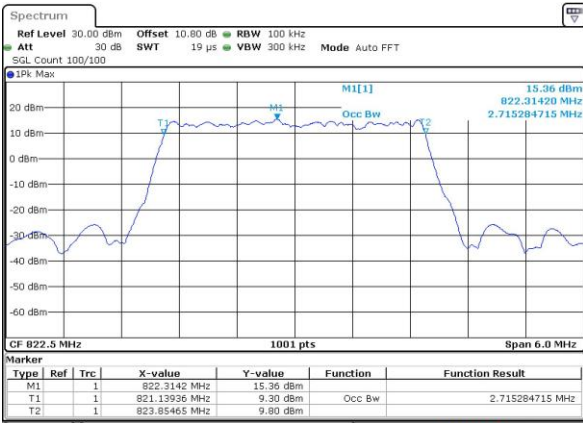
Date: 14 SEP 2018 18:17:33

Middle Channel / 3MHz / 16QAM



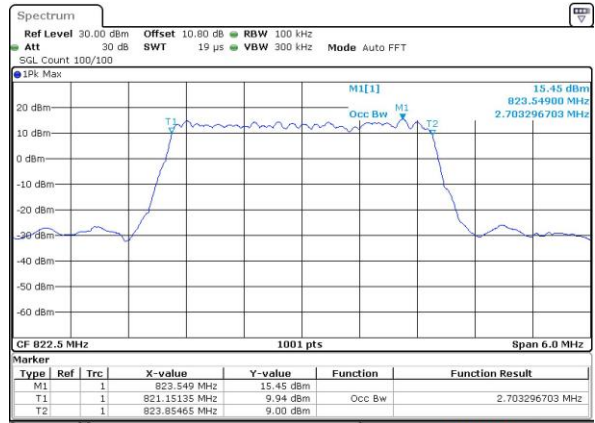
Date: 14 SEP 2018 18:17:44

Highest Channel / 3MHz / QPSK



Date: 14 SEP 2018 18:19:41

Highest Channel / 3MHz / 16QAM

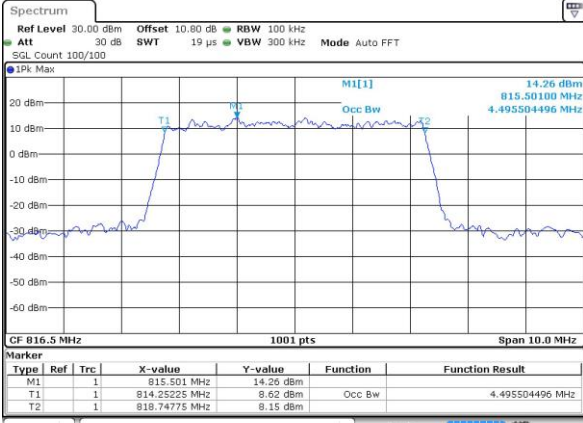


Date: 14 SEP 2018 18:19:53



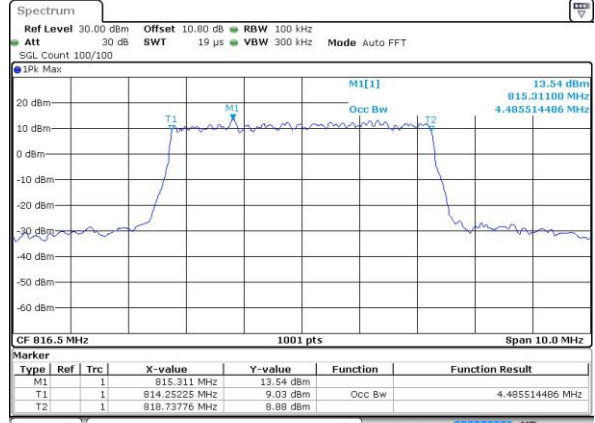
LTE Band 26

Lowest Channel / 5MHz / QPSK



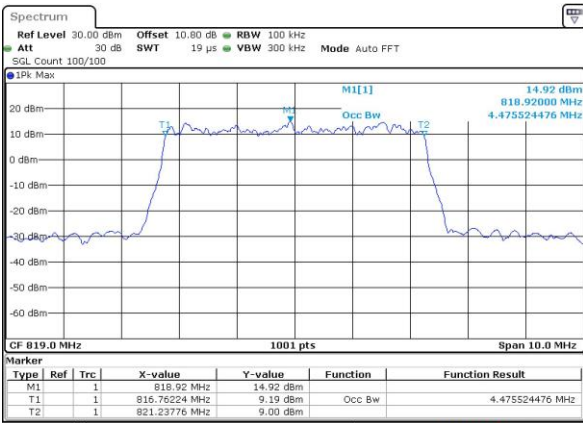
Date: 14 SEP 2018 18:21:50

Lowest Channel / 5MHz / 16QAM



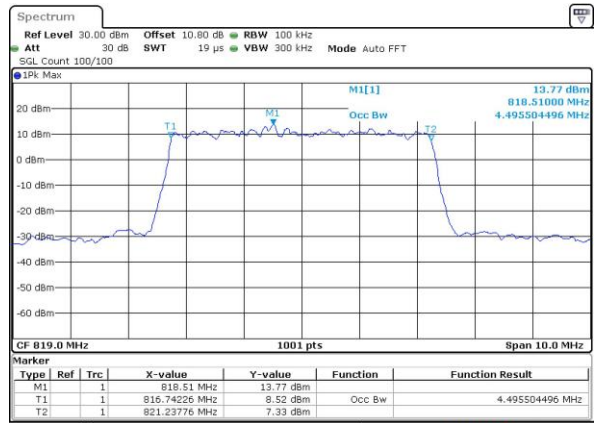
Date: 14 SEP 2018 18:22:02

Middle Channel / 5MHz / QPSK



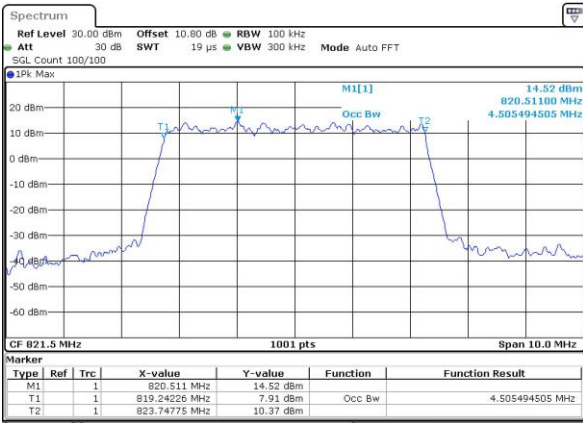
Date: 14 SEP 2018 18:23:59

Middle Channel / 5MHz / 16QAM



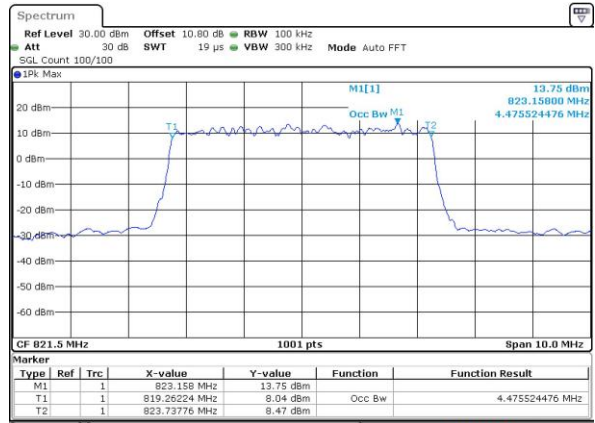
Date: 14 SEP 2018 18:24:11

Highest Channel / 5MHz / QPSK



Date: 14 SEP 2018 18:26:08

Highest Channel / 5MHz / 16QAM

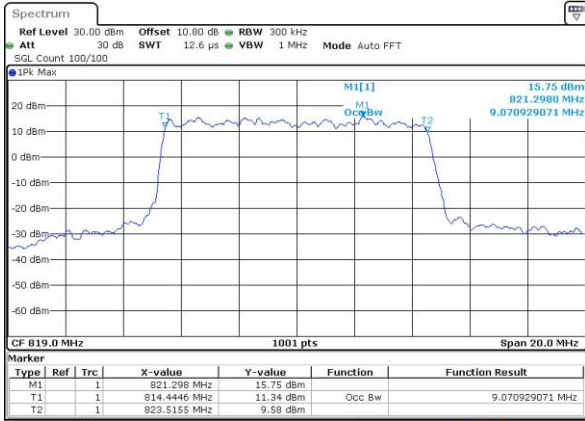


Date: 14 SEP 2018 18:26:20



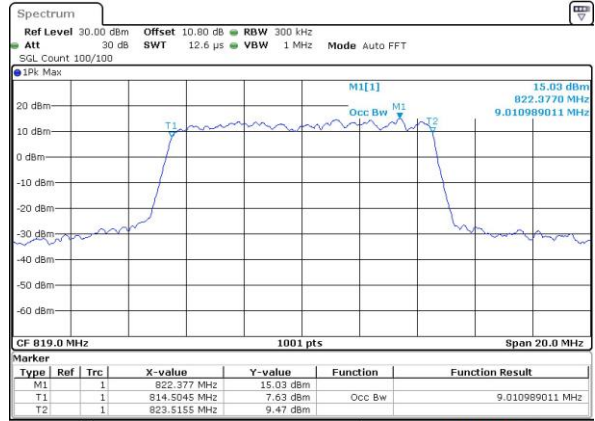
LTE Band 26

Middle Channel / 10MHz / QPSK



Date: 14 SEP 2018 18:28:17

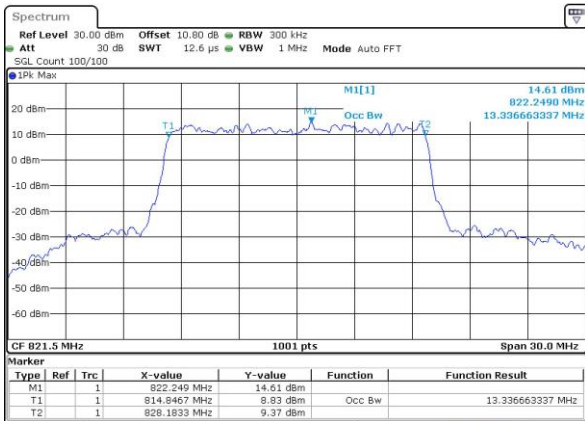
Middle Channel / 10MHz / 16QAM



Date: 14 SEP 2018 18:28:29

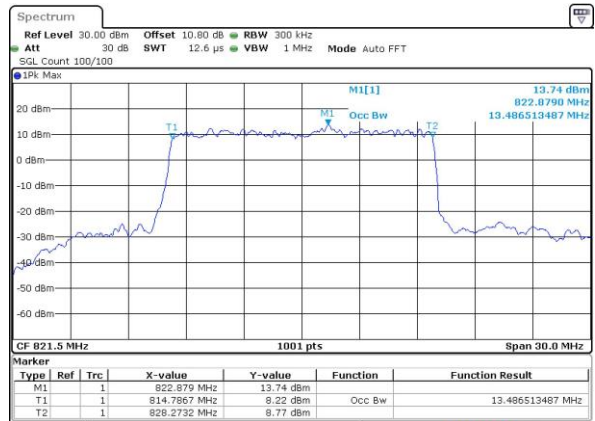
LTE Band 26

Lowest Channel / 15MHz / QPSK



Date: 14 SEP 2018 18:30:26

Lowest Channel / 15MHz / 16QAM

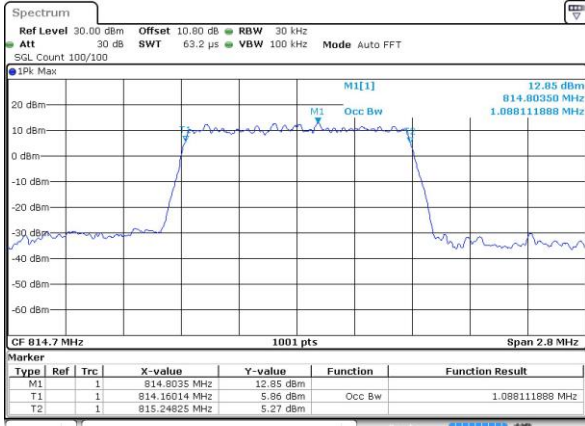


Date: 14 SEP 2018 18:30:37



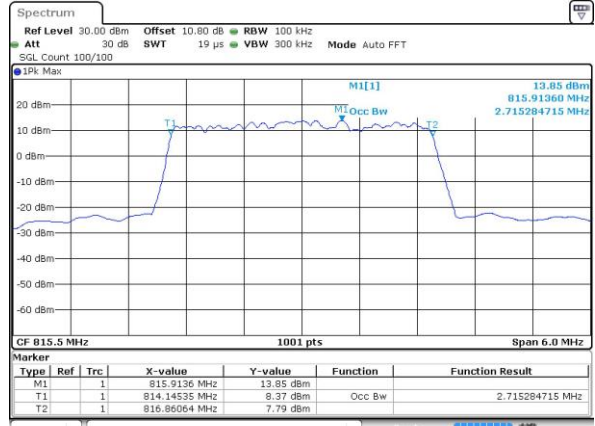
LTE Band 26

Lowest Channel / 1.4MHz / 64QAM



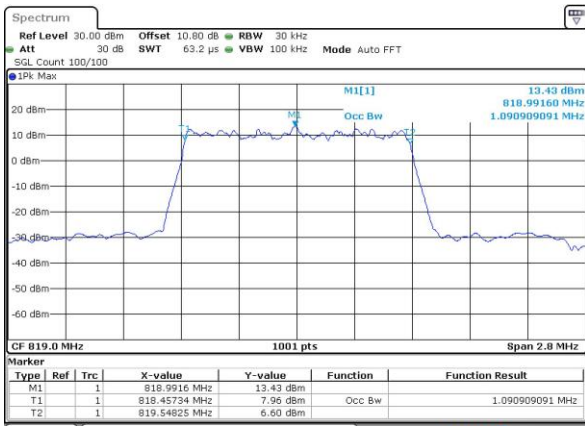
Date: 14 SEP 2018 18:12:11

Lowest Channel / 3MHz / 64QAM



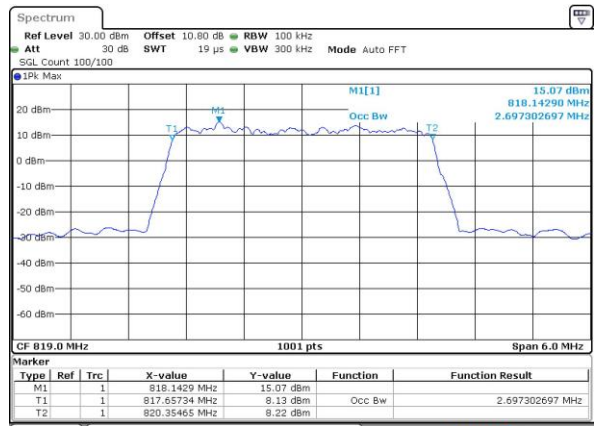
Date: 14 SEP 2018 17:45:33

Middle Channel / 1.4MHz / 64QAM



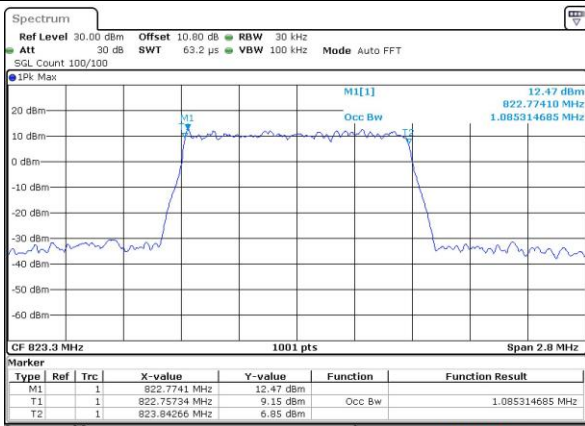
Date: 14 SEP 2018 18:13:15

Middle Channel / 3MHz / 64QAM



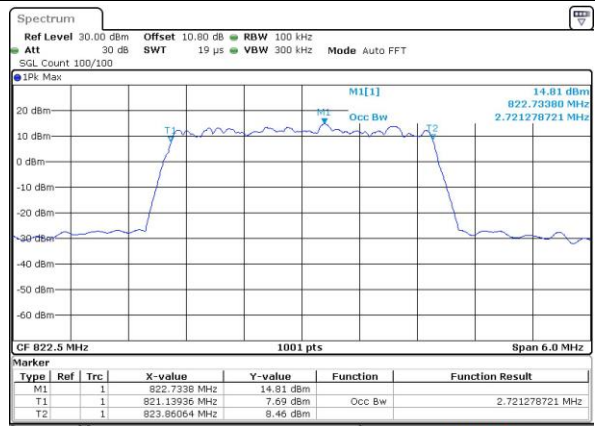
Date: 14 SEP 2018 17:46:37

Highest Channel / 1.4MHz / 64QAM



Date: 14 SEP 2018 18:14:20

Highest Channel / 3MHz / 64QAM



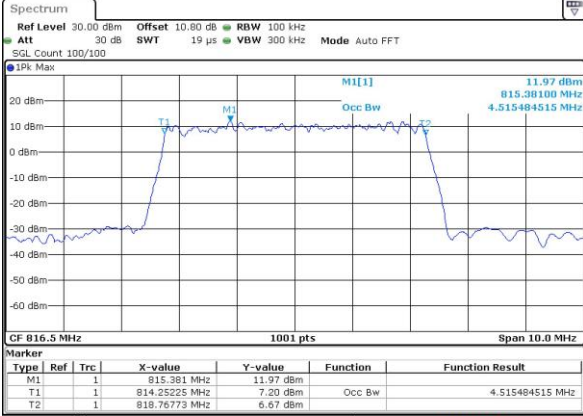
Date: 14 SEP 2018 17:47:41





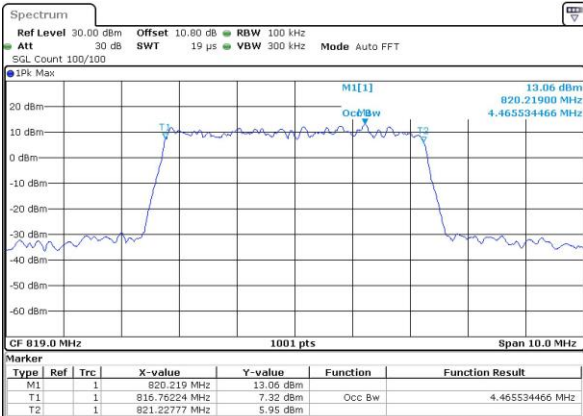
LTE Band 26

Lowest Channel / 5MHz / 64QAM



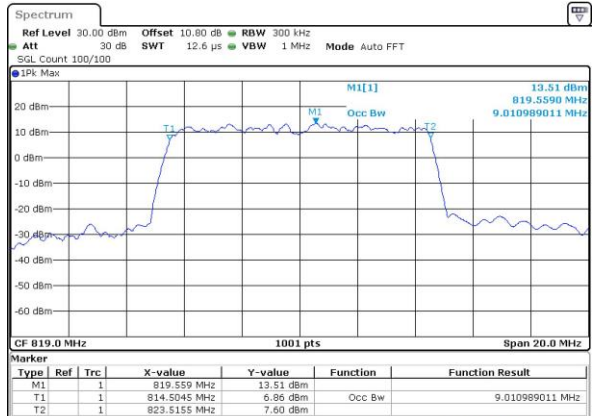
Date: 14.SEP.2018 17:48:46

Middle Channel / 5MHz / 64QAM



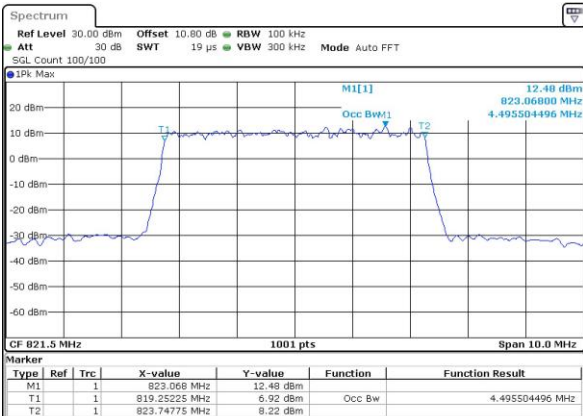
Date: 14.SEP.2018 17:49:50

Middle Channel / 10MHz / 64QAM



Date: 14.SEP.2018 17:51:59

Highest Channel / 5MHz / 64QAM

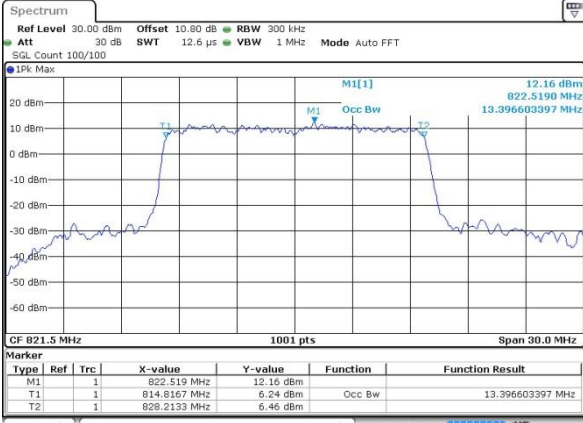


Date: 14.SEP.2018 17:50:54



LTE Band 26

Lowest Channel / 15MHz / 64QAM



Date: 14.SEP.2018 17:53:03

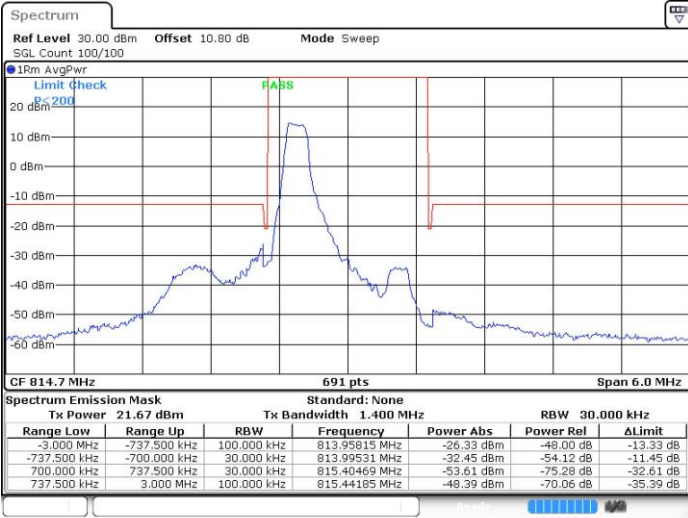


Conducted Band Edge

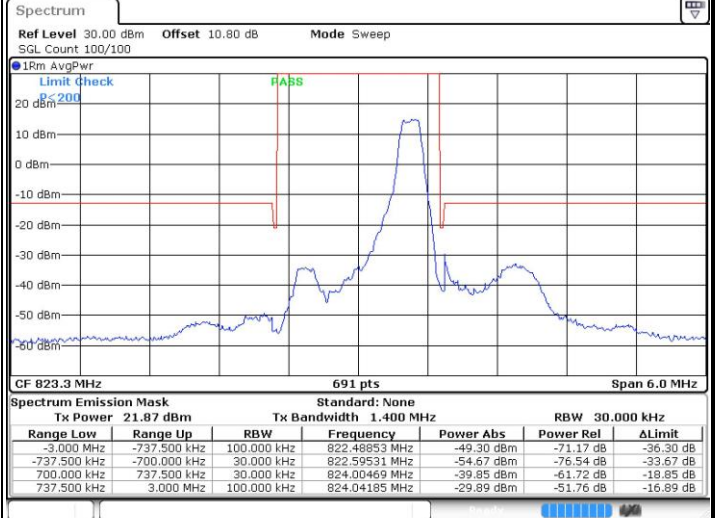
LTE Band 26 / 1.4MHz / QPSK

Lowest Band Edge / 1RB

Highest Band Edge / 1RB



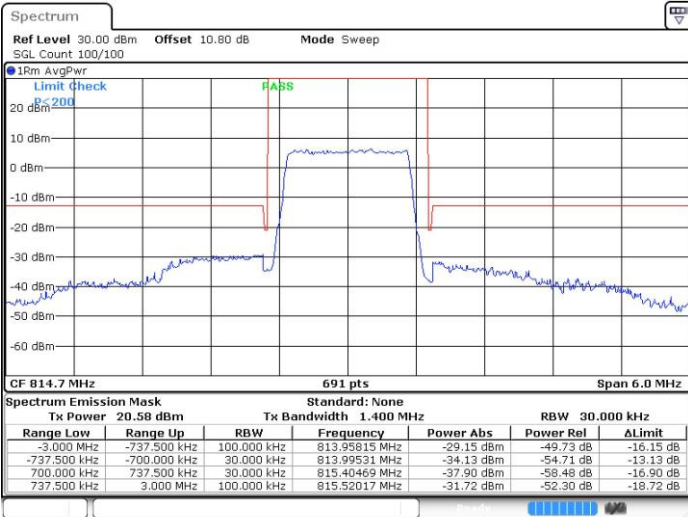
Date: 14.SEP.2018 16:56:23



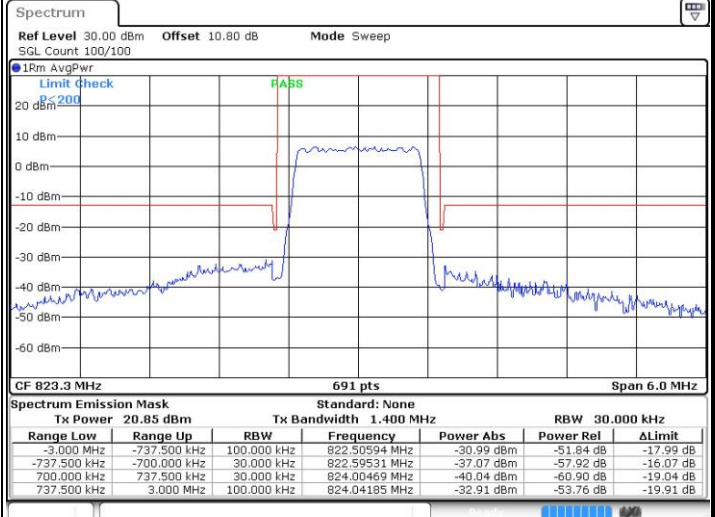
Date: 14.SEP.2018 17:00:05

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 14.SEP.2018 16:58:14

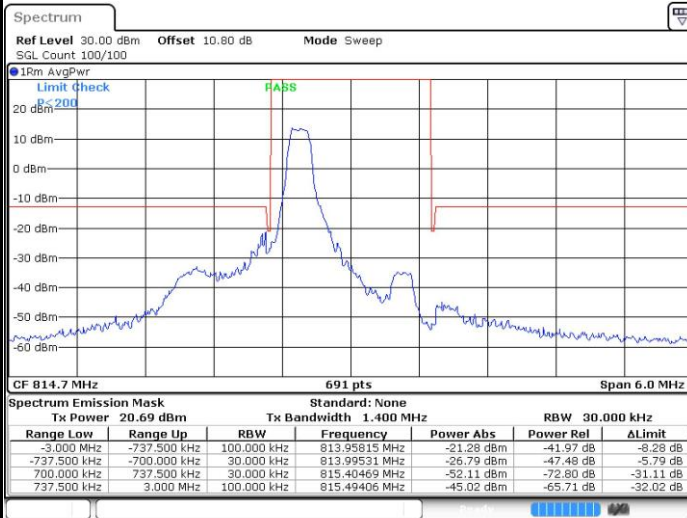


Date: 14.SEP.2018 17:01:56



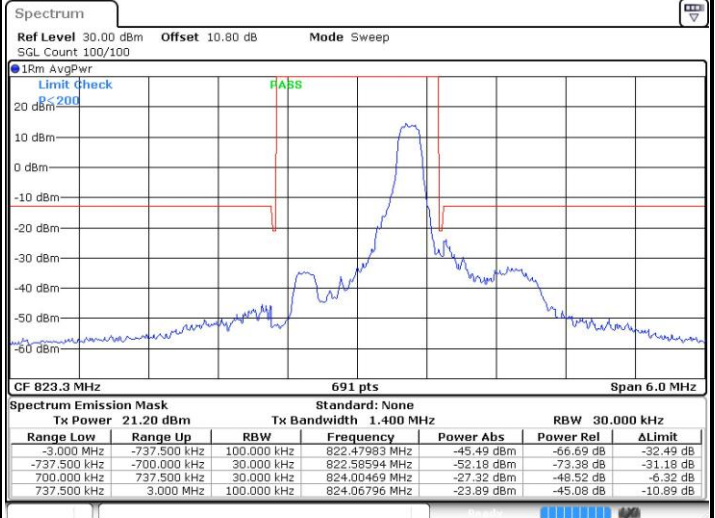
LTE Band 26 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



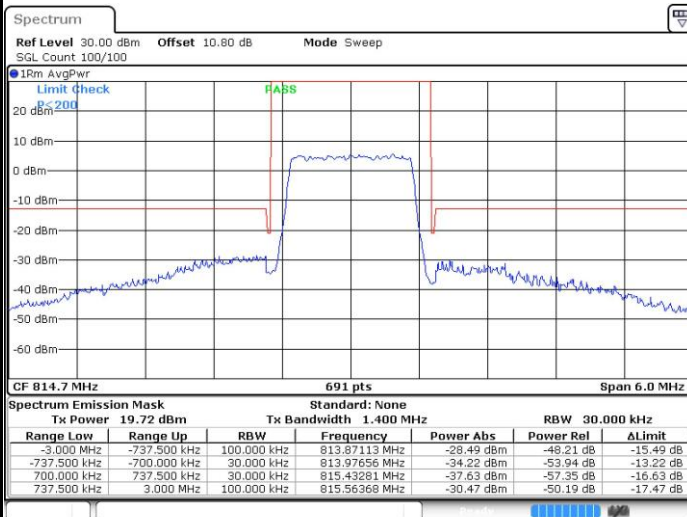
Date: 14.SEP.2018 16:57:19

Highest Band Edge / 1 RB



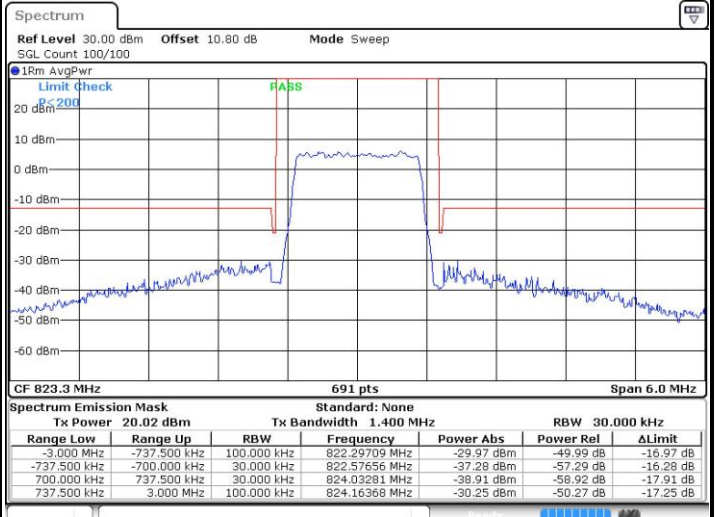
Date: 14.SEP.2018 17:01:00

Lowest Band Edge / Full RB



Date: 14.SEP.2018 16:59:10

Highest Band Edge / Full RB

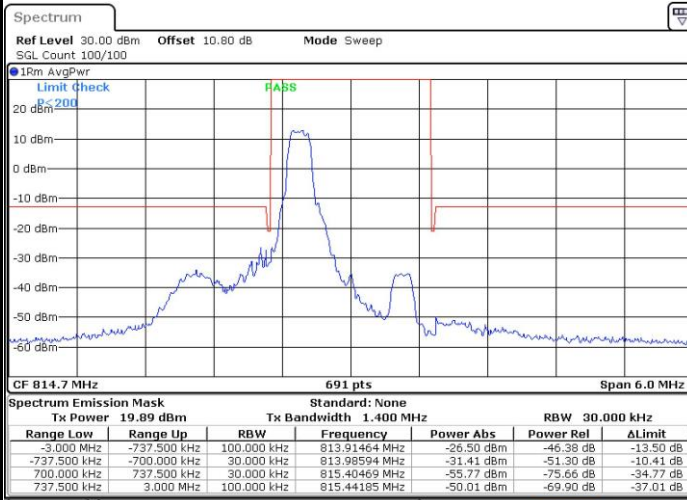


Date: 14.SEP.2018 17:02:51



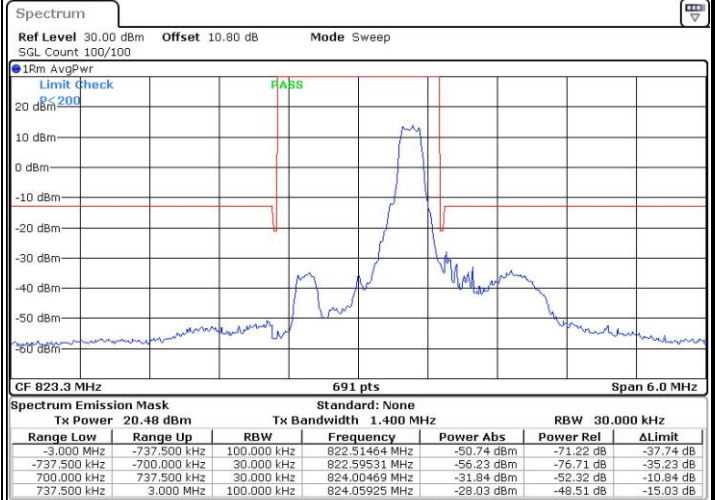
LTE Band 26 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



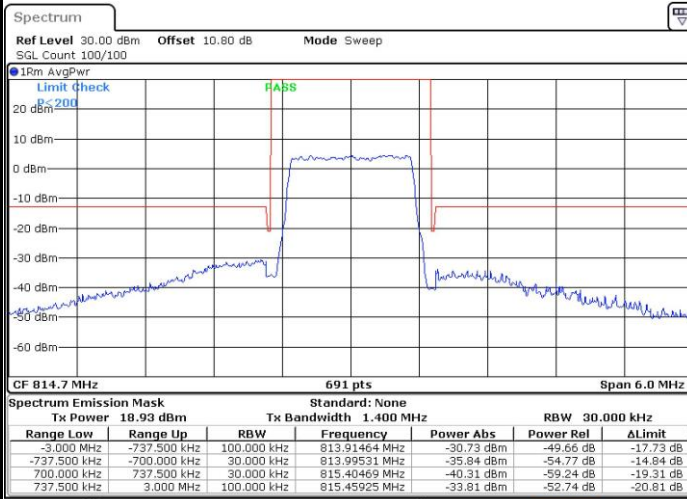
Date: 14.SEP.2018 17:29:39

Highest Band Edge / 1 RB



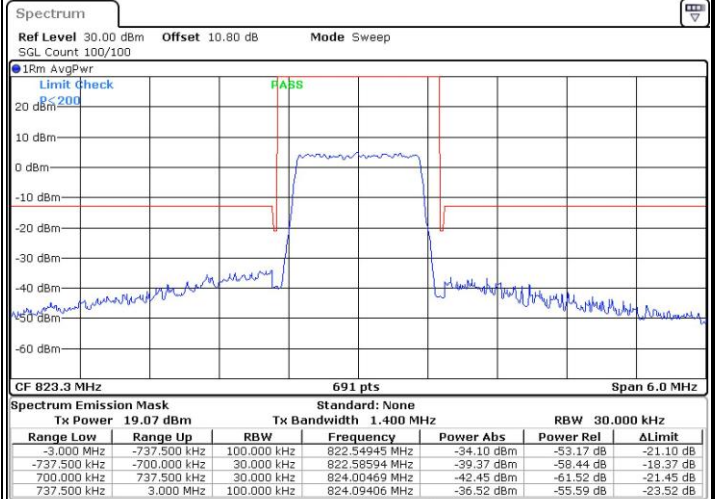
Date: 14.SEP.2018 17:31:30

Lowest Band Edge / Full RB



Date: 14.SEP.2018 17:30:34

Highest Band Edge / Full RB

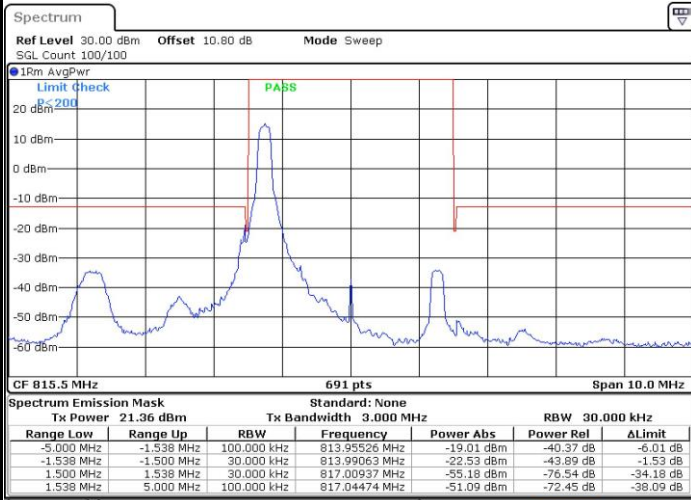


Date: 14.SEP.2018 17:32:25



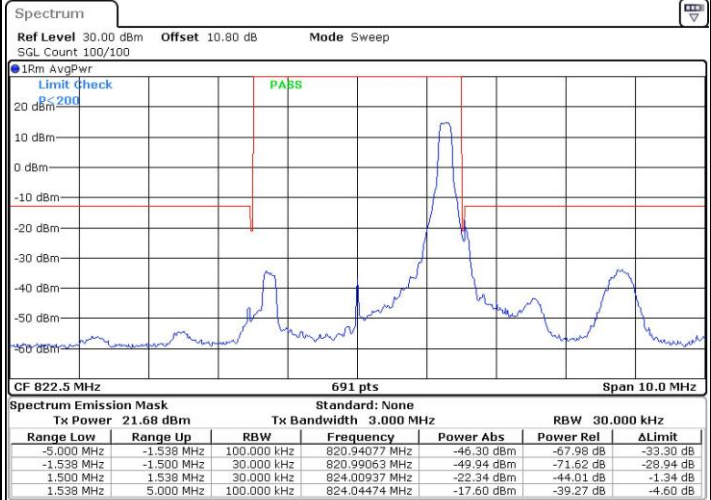
LTE Band 26 / 3MHz / QPSK

Lowest Band Edge / 1RB



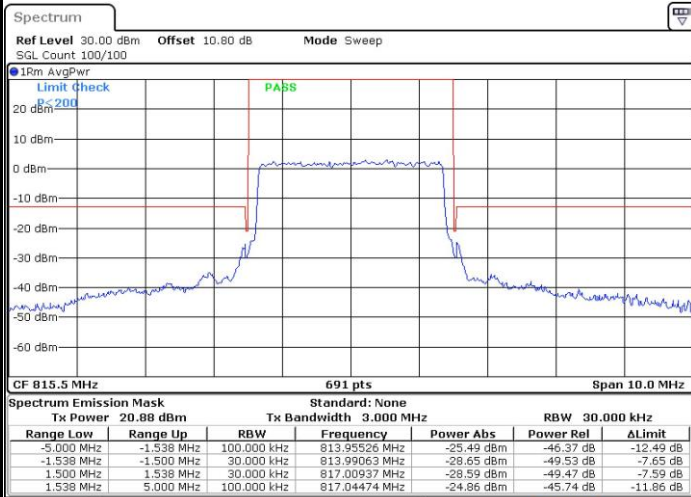
Date: 14.SEP.2018 17:03:47

Highest Band Edge / 1 RB



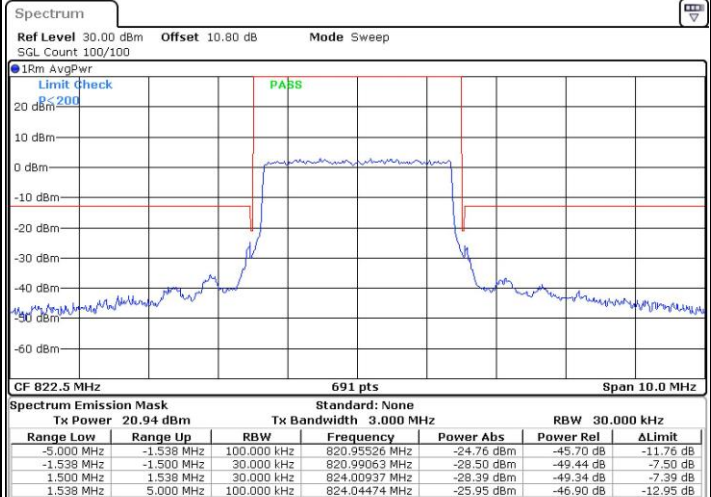
Date: 14.SEP.2018 17:07:29

Lowest Band Edge / Full RB



Date: 14.SEP.2018 17:05:38

Highest Band Edge / Full RB



Date: 14.SEP.2018 17:09:21