

# FCC/ISED RF TEST REPORT

ISSUED BY  
Shenzhen BALUN Technology Co., Ltd.



FOR  
**Smart Phone**

ISSUED TO  
Shenzhen UniStrong Science & Technology Co., Ltd.

B, 4-4Factory, Zhengcheng Road, FuyongBaoan District, Shenzhen,  
China.



Tested by: Deng Biping  
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Date: Mar. 07, 2018

Approved by: Wei Yanquan  
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Date: Mar. 07, 2018

Report No.: BL-EC17C0360-501  
EUT Name: Smart Phone  
Model Name: UT10  
Brand Name: UniStrong  
Test Standard: 47 CFR Part 2 (10-1-17 Edition)  
IC RSS-Gen Issue 4, November 2014  
(Other refer to chapter 3.1)  
FCC ID: 2AOPD-UT10  
ISED Number: 11546A-UT10  
Test Conclusion: Pass  
Test Date: Jan. 03, 2018 ~ Mar. 05, 2018  
Date of Issue: Mar. 07, 2018

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**Revision History**

| <u>Version</u> | <u>Issue Date</u>    | <u>Revisions Content</u> |
|----------------|----------------------|--------------------------|
| <u>Rev. 01</u> | <u>Mar. 07, 2018</u> | <u>Initial Issue</u>     |

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## 1 GENERAL INFORMATION

### 1.1 Identification of the Testing Laboratory

|              |                                                                                                                                  |
|--------------|----------------------------------------------------------------------------------------------------------------------------------|
| Company Name | Shenzhen BALUN Technology Co., Ltd.                                                                                              |
| Address      | Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China. |
| Phone Number | +86 755 6685 0100                                                                                                                |
| Fax Number   | +86 755 6182 4271                                                                                                                |

### 1.2 Identification of the Responsible Testing Location

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Location 1            | Shenzhen BALUN Technology Co., Ltd.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Address                    | Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Accreditation Certificate1 | <p>The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1.</p> <p>The laboratory is a testing organization accredited by FCC as an accredited testing laboratory. The designation number is CN1196.</p> <p>The laboratory is a testing organization accredited by American Association for Laboratory Accreditation(A2LA) according to ISO/IEC 17025. The accreditation certificate number is 4344.01.</p> <p>The laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L6791.</p> |
| Description                | All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

### 1.3 Test Environment Condition

|                           |              |
|---------------------------|--------------|
| Ambient Temperature       | 20 to 35 °C  |
| Ambient Relative Humidity | 30 to 60 %   |
| Ambient Pressure          | 98 to 102KPa |

## 1.4 Announce

- (1) The test report reference to the report template version v1.0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory

## 2 PRODUCT INFORMATION

### 2.1 Applicant Information

|           |                                                                       |
|-----------|-----------------------------------------------------------------------|
| Applicant | Shenzhen UniStrong Science & Technology Co.,Ltd.                      |
| Address   | B, 4-4Factory, Zhengcheng Road, FuyongBaoan District, Shenzhen, China |

### 2.2 Manufacturer Information

|              |                                                                       |
|--------------|-----------------------------------------------------------------------|
| Manufacturer | Shenzhen UniStrong Science & Technology Co.,Ltd.                      |
| Address      | B, 4-4Factory, Zhengcheng Road, FuyongBaoan District, Shenzhen, China |

### 2.3 Factory Information

|         |                                                                       |
|---------|-----------------------------------------------------------------------|
| Factory | Shenzhen UniStrong Science & Technology Co.,Ltd.                      |
| Address | B, 4-4Factory, Zhengcheng Road, FuyongBaoan District, Shenzhen, China |

### 2.4 General Description for Equipment under Test (EUT)

|                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EUT Name                                                                                                                                                                                                                                         | Smart Phone                                                                                                                                                                                                                                     |
| Model Name                                                                                                                                                                                                                                       | UT10                                                                                                                                                                                                                                            |
| Series Model Name                                                                                                                                                                                                                                | N/A                                                                                                                                                                                                                                             |
| Description of Model name differentiation                                                                                                                                                                                                        | N/A                                                                                                                                                                                                                                             |
| Hardware Version                                                                                                                                                                                                                                 | UT10_V104                                                                                                                                                                                                                                       |
| Software Version                                                                                                                                                                                                                                 | UT10_V1.0                                                                                                                                                                                                                                       |
| Dimensions (Approx.)                                                                                                                                                                                                                             | N/A                                                                                                                                                                                                                                             |
| Weight (Approx.)                                                                                                                                                                                                                                 | N/A                                                                                                                                                                                                                                             |
| Network and Wireless connectivity                                                                                                                                                                                                                | GSM/GPRS/EGPRS 850/900/1800/1900 MHz;<br>CDMA Band Class 0;<br>EVDO Rel. 0/Rev. A Band Class 0;<br>WCDMA/HSDPA/HSUPA Band 1/2/5/8;<br>LTE FDD Band 1/2/3/4/5/7/8/17/20/28;<br>LTE TDD Band 38/40/41;<br>Bluetooth, WIFI, GPS, GLONASS, NFC, BDS |
| About the Product                                                                                                                                                                                                                                | The equipment is Smart Phone, intended for used with information technology equipment.                                                                                                                                                          |
| Note 1:<br>The EUT is a smart phone, supporting dual SIM card slots under the same transceiver. Both SIM card slots support GSM, CDMA, WCDMA and LTE. And both SIM card slots share the same transceiver, so only SIM1 is tested in this report. |                                                                                                                                                                                                                                                 |



## 2.5 Ancillary Equipment

|                                                                                                                                                                                                                                                    |                      |                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------|
| Ancillary Equipment 1                                                                                                                                                                                                                              | Battery              |                                     |
|                                                                                                                                                                                                                                                    | Brand Name           | SJYEnergy                           |
|                                                                                                                                                                                                                                                    | Model No.            | BA7800                              |
|                                                                                                                                                                                                                                                    | Serial No.           | N/A                                 |
|                                                                                                                                                                                                                                                    | Capacity             | 8000 mAh                            |
|                                                                                                                                                                                                                                                    | Rated Voltage        | 3.8 V                               |
|                                                                                                                                                                                                                                                    | Limit Charge Voltage | 4.35 V                              |
| Ancillary Equipment 2 <sup>Note</sup>                                                                                                                                                                                                              | Adapter              |                                     |
|                                                                                                                                                                                                                                                    | Brand Name           | N/A                                 |
|                                                                                                                                                                                                                                                    | Model No.            | ASUC71W-050912300                   |
|                                                                                                                                                                                                                                                    | Serial No.           | ASUC71z-050912300 (z= a, e, i, w)   |
|                                                                                                                                                                                                                                                    | Rated Input          | 100-240 V~, 0.7 A, 50/60 Hz         |
|                                                                                                                                                                                                                                                    | Rated Output         | 5 V= 3 A or 9 V= 2 A or 12 V= 1.5 A |
| Ancillary Equipment 3 <sup>Note</sup>                                                                                                                                                                                                              | Adapter              |                                     |
|                                                                                                                                                                                                                                                    | Brand Name           | N/A                                 |
|                                                                                                                                                                                                                                                    | Model No.            | ASUC71W-036120300                   |
|                                                                                                                                                                                                                                                    | Serial No.           | ASUC71z-036120300 (z= a, e, i, w)   |
|                                                                                                                                                                                                                                                    | Rated Input          | 100-240 V~, 0.7 A, 50/60 Hz         |
|                                                                                                                                                                                                                                                    | Rated Output         | 5 V= 3 A or 9 V= 2 A or 12 V= 1.5 A |
| Ancillary Equipment 4                                                                                                                                                                                                                              | USB Cable            |                                     |
|                                                                                                                                                                                                                                                    | Length (Approx.)     | 1.0 m                               |
| <p>Note: Additional models ASUC71z-036120300 are identical in circuitry and electrical, mechanical and physical construction with the test model ASUC71z-050912300, the only differences are the appearance and model no. for trading purpose.</p> |                      |                                     |

## 2.6 Technical Information

The requirement for the following technical information of the EUT was tested in this report:

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Frequency Bands    | GSM/GPRS/EGPRS 850/1900<br>CDMA Band Class 0<br>EVDO Rel. 0/Rev. A Band Class 0<br>WCDMA/HSDPA/HSUPA Band 2/5<br>LTE FDD Band 2/4/5/7/17<br>LTE TDD Band 41                                                                                                                                                                                                                                                              |                    |
| Modulation Type    | GSM/GPRS                                                                                                                                                                                                                                                                                                                                                                                                                 | GMSK               |
|                    | EGPRS                                                                                                                                                                                                                                                                                                                                                                                                                    | 8PSK               |
|                    | CDMA                                                                                                                                                                                                                                                                                                                                                                                                                     | OQPSK, HPSK        |
|                    | EVDO                                                                                                                                                                                                                                                                                                                                                                                                                     | QPSK, 8PSK, 16-QAM |
|                    | WCDMA                                                                                                                                                                                                                                                                                                                                                                                                                    | QPSK               |
|                    | HSDPA                                                                                                                                                                                                                                                                                                                                                                                                                    | QPSK               |
|                    | /HSUPA                                                                                                                                                                                                                                                                                                                                                                                                                   | 16QAM              |
|                    | LTE                                                                                                                                                                                                                                                                                                                                                                                                                      | QPSK<br>16QAM      |
| TX Frequency Range | GSM/GPRS/EGPRS 850: 824 - 849 MHz<br>GSM/GPRS/EGPRS 1900: 1850 - 1910 MHz<br>CDMA/EVDO BC0: 824.025 - 848.985 MHz<br>WCDMA/HSDPA/HSUPA Band 2: 1850 -1910 MHz<br>WCDMA/HSDPA/HSUPA Band 5: 824 - 849 MHz<br>LTE FDD Band 2: 1850 - 1910 MHz<br>LTE FDD Band 4: 1710 - 1755 MHz<br>LTE FDD Band 5: 824 - 849 MHz<br>LTE FDD Band 7: 2500 - 2570 MHz<br>LTE FDD Band 17: 704 - 716 MHz<br>LTE TDD Band 41: 2555 - 2655 MHz |                    |
| Rx Frequency Range | GSM/GPRS/EGPRS 850: 869 - 894 MHz<br>GSM/GPRS/EGPRS 1900: 1930 - 1990 MHz<br>CDMA/EVDO BC0: 869.025 - 893.985 MHz<br>WCDMA/HSDPA/HSUPA Band 2: 1930 - 1990 MHz<br>WCDMA/HSDPA/HSUPA Band 5: 869 - 894 MHz<br>LTE FDD Band 2: 1930 - 1990 MHz<br>LTE FDD Band 4: 2110 - 2155 MHz<br>LTE FDD Band 5: 869 - 894 MHz<br>LTE FDD Band 7: 2620 - 2690 MHz<br>LTE FDD Band 17: 734- 746 MHz<br>LTE TDD Band 41: 2555 - 2655 MHz |                    |
| Power Class        | GSM/GPRS 850: 4<br>GSM/GPRS 1900: 1<br>EGPRS 850/1900: E2<br>CDMA/EVDO BC0: 3<br>WCDMA/HSDPA/HSUPA Band 2: 3                                                                                                                                                                                                                                                                                                             |                    |



|                 |                                                                                                                                                                                                                                                                                                                                     |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | WCDMA/HSDPA/HSUPA Band 5: 3<br>LTE FDD Band 2: 3<br>LTE FDD Band 4: 3<br>LTE FDD Band 5: 3<br>LTE FDD Band 7: 3<br>LTE FDD Band 17: 3<br>LTE TDD Band 41: 3                                                                                                                                                                         |
| Multislot Class | GPRS/EGPRS: 12                                                                                                                                                                                                                                                                                                                      |
| Antenna Type    | PIFA Antenna                                                                                                                                                                                                                                                                                                                        |
| Antenna Gain    | GSM/GPRS/EGPRS 850: 1.5 dBi<br>GSM/GPRS/EGPRS 1900: 1.5 dBi<br>CDMA/EVDO BC0: 1.5 dBi<br>WCDMA/HSDPA/HSUPA Band 2: 1.5 dBi<br>WCDMA/HSDPA/HSUPA Band 5: 1.5 dBi<br>LTE FDD Band 2: 1.5 dBi<br>LTE FDD Band 4: 1.5 dBi<br>LTE FDD Band 5: 1.5 dBi<br>LTE FDD Band 7: 1.5 dBi<br>LTE FDD Band 17: 1.5 dBi<br>LTE TDD Band 41: 1.5 dBi |

Note 1: The EUT information are declared by manufacturer. For more detailed features description, please refer to the manufacturer's specifications or user's manual.

### 3 SUMMARY OF TEST RESULTS

#### 3.1 Test Standards

| No. | Identity                                             | Document Title                                                                                       |
|-----|------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 1   | 47 CFR Part 2<br>(10 – 1 – 17 Edition)               | Frequency Allocations and Radio Treaty Matters;<br>General Rules and Regulations                     |
| 2   | 47 CFR Part 22<br>Subpart H<br>(10 – 1 – 17 Edition) | Cellular Radiotelephone Service                                                                      |
| 3   | 47 CFR Part 24<br>Subpart E<br>(10 – 1 – 17 Edition) | Broadband PCS                                                                                        |
| 4   | 47 CFR Part 27<br>(10 – 1 – 17 Edition)              | Miscellaneous Wireless Communications Services                                                       |
| 5   | RSS-Gen Issue4<br>(November 2014)                    | General Requirements and Information for the Certification of<br>Radio Apparatus                     |
| 6   | RSS-132 Issue3<br>(January 2013)                     | Cellular Telephone Systems Operating in the Bands 824-849<br>MHz and 869-894 MHz                     |
| 7   | RSS-133 Issue6<br>(January 2013)                     | 2 GHz Personal Communications Services                                                               |
| 8   | RSS-139 Issue3<br>(July 2015)                        | Advanced Wireless Services (AWS) Equipment Operating in the<br>Bands 1710-1780 MHz and 2110-2180 MHz |
| 9   | RSS-199 Issue3<br>(December 2016)                    | Broadband Radio Service (BRS) Equipment Operating in the<br>Band 2500-2690 MHz                       |
| 10  | ANSI/TIA-603-E-2016                                  | Land Mobile FM or PM Communications Equipment<br>Measurement and Performance Standards               |
| 11  | KDB 971168<br>D01 v03                                | Measurement Guidance for Certification of Licensed Digital<br>Transmitters                           |

### 3.2 Test Verdict

| No. | Description                            | FCC Part No.                                                               | ISED Part No.                                                            | Test Result                   | Verdict |
|-----|----------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------|---------|
| 1   | Conducted RF Output Power              | 2.1046                                                                     | RSS-Gen 6.12<br>RSS-132 5.4<br>RSS-133 6.4<br>RSS-139 6.5<br>RSS-199 4.4 | Reporting only<br>(ANNEX A.1) | Pass    |
| 2   | Effective (Isotropic) Radiated Power   | 2.1046<br>22.913<br>24.232<br>27.50(b)<br>27.50(c)<br>27.50(d)<br>27.50(h) | RSS-Gen 6.12<br>RSS-132 5.4<br>RSS-133 6.4<br>RSS-139 6.5<br>RSS-199 4.4 | ANNEX A.1                     | Pass    |
| 3   | Peak to Average Ratio                  | 2.1046<br>24.232(d)<br>27.50(d)                                            | RSS-132 5.4<br>RSS-133 6.4<br>RSS-139 6.5<br>RSS-199 4.4                 | ANNEX A.2                     | Pass    |
| 4   | Occupied Bandwidth                     | 2.1049<br>22.917<br>24.238<br>27.53                                        | RSS-Gen 6.6                                                              | ANNEX A.3                     | Pass    |
| 5   | Frequency Stability                    | 2.1055<br>22.355<br>24.235<br>27.54                                        | RSS-Gen 6.11<br>RSS-132 5.3<br>RSS-133 6.3<br>RSS-139 6.4<br>RSS-199 4.3 | ANNEX A.4                     | Pass    |
| 6   | Spurious Emission at Antenna Terminals | 2.1051<br>22.917<br>24.238<br>27.53(c)<br>27.53(g)<br>27.53(h)<br>27.53(m) | RSS-Gen 6.13<br>RSS-132 5.5<br>RSS-133 6.5<br>RSS-139 6.6<br>RSS-199 4.5 | ANNEX A.5                     | Pass    |
| 7   | Band Edge                              | 2.1051<br>22.917<br>24.238<br>27.53(c)<br>27.53(g)<br>27.53(h)<br>27.53(m) | RSS-132 5.5<br>RSS-133 6.5<br>RSS-139 6.6<br>RSS-199 4.5                 | ANNEX A.6                     | Pass    |
| 8   | Field Strength of Spurious Radiation   | 2.1053<br>22.917<br>24.238<br>27.53(c)                                     | RSS-Gen 6.13<br>RSS-132 5.5<br>RSS-133 6.5<br>RSS-139 6.6                | ANNEX A.7                     | Pass    |

| No. | Description                 | FCC Part No.                     | ISED Part No.                             | Test Result | Verdict |
|-----|-----------------------------|----------------------------------|-------------------------------------------|-------------|---------|
|     |                             | 27.53(g)<br>27.53(h)<br>27.53(m) | RSS-199 4.5                               |             |         |
| 9   | Receiver Spurious Emissions | N/A                              | RSS-Gen 7.1<br>RSS-132 5.6<br>RSS-133 6.6 | ANNEX A.8   | Pass    |

## 4 GENERAL TEST CONFIGURATIONS

### 4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

|                             |                       |        |
|-----------------------------|-----------------------|--------|
| Test Voltage of the EUT     | NV (Normal Voltage)   | 3.8 V  |
|                             | LV (Low Voltage)      | 3.7 V  |
|                             | HV (High Voltage)     | 4.35 V |
| Test Temperature of the EUT | LT (Low Temperature)  | -20 °C |
|                             | HT (High Temperature) | 50 °C  |

### 4.2 Test Equipment List

| Description                          | Manufacturer | Model     | Serial No.             | Software /Firmware Version | Cal. Date  | Cal. Due   |
|--------------------------------------|--------------|-----------|------------------------|----------------------------|------------|------------|
| <b>Conducted Test System</b>         |              |           |                        |                            |            |            |
| Test Software 1                      | R&S          | CMUgo     | N/A                    | V2.0.1                     | N/A        | N/A        |
| Test Software 2                      | R&S          | CMWRun    | N/A                    | V1.8.9                     | N/A        | N/A        |
| Test Software 3                      | BALUN        | BL410R    | N/A                    | V2.1.1.355                 | N/A        | N/A        |
| Universal Radio Communication Tester | R&S          | CMU 200   | 123666                 | V5.21                      | 2017.11.02 | 2018.11.01 |
| Wireless Communications Test Set     | R&S          | CMW 500   | 102318                 | V3.2.71                    | 2017.06.12 | 2018.06.11 |
| Spectrum Analyzer                    | R&S          | FSV-30    | 103118                 | 2.30.SP1                   | 2017.06.12 | 2018.06.11 |
| Spectrum Analyzer                    | AGILENT      | E4440A    | MY45304434             | A.11.21                    | 2017.11.02 | 2018.11.01 |
| DC Power Supply                      | R&S          | IT6863A   | 60001401068<br>7210020 | N/A                        | 2017.06.12 | 2018.06.11 |
| Temperature Chamber                  | AHK          | SP20      | 1412                   | N/A                        | 2017.07.20 | 2018.07.19 |
| Power Sensor                         | R&S          | NRP-Z21   | 103971                 | N/A                        | 2017.06.12 | 2018.06.11 |
| Power Splitter                       | KMW          | DCPD-LDC  | 1305003215             | N/A                        | N/A        | N/A        |
| Attenuator (20 dB)                   | KMW          | ZA-S1-201 | 110617091              | N/A                        | N/A        | N/A        |
| Attenuator (6 dB)                    | KMW          | ZA-S1-61  | 1305003189             | N/A                        | N/A        | N/A        |
| <b>Radiated Test System</b>          |              |           |                        |                            |            |            |
| Test Software                        | BALUN        | BL410_E   | N/A                    | V16.921                    | N/A        | N/A        |
| Test Antenna-Loop(9 kHz-30 MHz)      | SCHWARZBECK  | FMZB 1519 | 1519-037               | N/A                        | 2015.07.22 | 2018.07.21 |
| Test Antenna-Bi-Log(30 MHz-3 GHz)    | SCHWARZBECK  | VULB 9163 | 9163-624               | N/A                        | 2015.07.22 | 2018.07.21 |
| Test Antenna-                        | SCHWARZBECK  | VHBB9124  | 9124-594               | N/A                        | 2015.08.13 | 2018.08.12 |

| Description                  | Manufacturer                  | Model                   | Serial No. | Software /Firmware Version | Cal. Date  | Cal. Due   |
|------------------------------|-------------------------------|-------------------------|------------|----------------------------|------------|------------|
| Biconical                    | CK                            |                         |            |                            |            |            |
| Test Antenna-LPDA            | SCHWARZBE<br>CK               | VUSLP9111<br>B          | 9111B-091  | N/A                        | 2015.08.13 | 2018.08.12 |
| Test Antenna-Horn(1-18 GHz)  | SCHWARZBE<br>CK               | BBHA<br>9120D           | 9120D-1600 | N/A                        | 2016.07.12 | 2018.07.11 |
| Test Antenna-Horn(18-40 GHz) | A-INFO                        | LB-<br>180400KF         | J211060273 | N/A                        | 2017.01.06 | 2019.01.05 |
| Anechoic Chamber             | EMC<br>Electronic<br>Co., Ltd | 20.10m*11.<br>60m*7.35m | N/A        | N/A                        | 2016.08.09 | 2018.08.08 |
| EMI Receiver                 | AGILENT                       | E4440A                  | MY46181663 | A.11.21                    | 2017.11.02 | 2018.11.01 |



### 4.3 Test Configurations

| Test Items                             | Test Mode    | Test Channel |     |     |
|----------------------------------------|--------------|--------------|-----|-----|
|                                        |              | LCH          | MCH | HCH |
| E.R.P/E.I. R.P                         | GSM 850      | v            | v   | v   |
|                                        | GSM 1900     | v            | v   | v   |
|                                        | GPRS 850     | v            | v   | v   |
|                                        | GPRS 1900    | v            | v   | v   |
|                                        | EGPRS 850    | v            | v   | v   |
|                                        | EGPRS 1900   | v            | v   | v   |
|                                        | CDMA BC0     | v            | v   | v   |
|                                        | EVDO BC0     | v            | v   | v   |
|                                        | WCDMA Band 2 | v            | v   | v   |
|                                        | WCDMA Band 5 | v            | v   | v   |
|                                        | HSUPA Band 2 | v            | v   | v   |
|                                        | HSUPA Band 5 | v            | v   | v   |
|                                        | HSDPA Band 2 | v            | v   | v   |
|                                        | HSDPA Band 5 | v            | v   | v   |
| Peak to Average Ratio                  | WCDMA Band 2 | v            | v   | v   |
| Occupied Bandwidth                     | GSM 850      | v            | v   | v   |
|                                        | GSM 1900     | v            | v   | v   |
|                                        | EGPRS 850    | v            | v   | v   |
|                                        | EGPRS 1900   | v            | v   | v   |
|                                        | CDMA BC0     | v            | v   | v   |
|                                        | EVDO BC0     | v            | v   | v   |
|                                        | WCDMA Band 2 | v            | v   | v   |
|                                        | WCDMA Band 5 | v            | v   | v   |
| Frequency Stability                    | GSM 850      | v            | v   | v   |
|                                        | GSM 1900     | v            | v   | v   |
|                                        | GPRS 850     | v            | v   | v   |
|                                        | GPRS 1900    | v            | v   | v   |
|                                        | EGPRS 850    | v            | v   | v   |
|                                        | EGPRS 1900   | v            | v   | v   |
|                                        | CDMA BC0     | v            | v   | v   |
|                                        | EVDO BC0     | v            | v   | v   |
|                                        | WCDMA Band 2 | v            | v   | v   |
|                                        | WCDMA Band 5 | v            | v   | v   |
| Spurious Emission at Antenna Terminals | GSM 850      | v            | v   | v   |
|                                        | GSM 1900     | v            | v   | v   |
|                                        | EGPRS 850    | v            | v   | v   |
|                                        | EGPRS 1900   | v            | v   | v   |
|                                        | CDMA BC0     | v            | v   | v   |
|                                        | EVDO BC0     | v            | v   | v   |
|                                        | WCDMA Band 2 | v            | v   | v   |
|                                        | WCDMA Band 5 | v            | v   | v   |

| Test Items                           | Test Mode    | Test Channel |     |     |
|--------------------------------------|--------------|--------------|-----|-----|
|                                      |              | LCH          | MCH | HCH |
| Band Edge                            | GSM 850      | v            | --  | v   |
|                                      | GSM 1900     | v            | --  | v   |
|                                      | EGPRS 850    | v            | --  | v   |
|                                      | EGPRS 1900   | v            | --  | v   |
|                                      | CDMA BC0     | v            | --  | v   |
|                                      | EVDO BC0     | v            | --  | v   |
|                                      | WCDMA Band 2 | v            | --  | v   |
|                                      | WCDMA Band 5 | v            | --  | v   |
| Field Strength of Spurious Radiation | GSM 850      | v            | v   | v   |
|                                      | GSM 1900     | v            | v   | v   |
|                                      | EGPRS 850    | v            | v   | v   |
|                                      | EGPRS 1900   | v            | v   | v   |
|                                      | CDMA BC0     | v            | v   | v   |
|                                      | EVDO BC0     | v            | v   | v   |
|                                      | WCDMA Band 2 | v            | v   | v   |
|                                      | WCDMA Band 5 | v            | v   | v   |
| Receiver Spurious Emissions          | GSM 850      | v            | v   | v   |
|                                      | GSM 1900     | --           | --  | --  |
|                                      | EGPRS 850    | --           | --  | --  |
|                                      | EGPRS 1900   | --           | --  | --  |
|                                      | CDMA BC0     | --           | --  | --  |
|                                      | EVDO BC0     | --           | --  | --  |
|                                      | WCDMA Band 2 | --           | --  | --  |
|                                      | WCDMA Band 5 | --           | --  | --  |

Note 1: The mark "v" means that this configuration is chosen for testing.

| LTE Band                               | Bandwidth (MHz) |    |    |    |    |    | Modulation |        | RB# |      |      | Test Channel |     |     |
|----------------------------------------|-----------------|----|----|----|----|----|------------|--------|-----|------|------|--------------|-----|-----|
|                                        | 1.4             | 3  | 5  | 10 | 15 | 20 | QPSK       | 16-QAM | 1   | Half | Full | LCH          | MCH | HCH |
| E.R.P/E.I.R.P                          |                 |    |    |    |    |    |            |        |     |      |      |              |     |     |
| 2                                      | v               | v  | v  | v  | v  | v  | v          | v      | v   | v    | v    | v            | v   | v   |
| 4                                      | v               | v  | v  | v  | v  | v  | v          | v      | v   | v    | v    | v            | v   | v   |
| 5                                      | v               | v  | v  | v  | n  | n  | v          | v      | v   | v    | v    | v            | v   | v   |
| 7                                      | n               | n  | v  | v  | v  | v  | v          | v      | v   | v    | v    | v            | v   | v   |
| 17                                     | n               | n  | v  | v  | n  | n  | v          | v      | v   | v    | v    | v            | v   | v   |
| 41                                     | n               | n  | v  | v  | v  | v  | v          | v      | v   | v    | v    | v            | v   | v   |
| Peak to Average Ratio                  |                 |    |    |    |    |    |            |        |     |      |      |              |     |     |
| 2                                      | --              | -- | -- | -- | -- | v  | v          | v      | v   | --   | v    | v            | v   | v   |
| 4                                      | --              | -- | -- | -- | -- | v  | v          | v      | v   | --   | v    | v            | v   | v   |
| 5                                      | --              | -- | -- | v  | n  | n  | v          | v      | v   | --   | v    | v            | v   | v   |
| 7                                      | n               | n  | -- | -- | -- | v  | v          | v      | v   | --   | v    | v            | v   | v   |
| 17                                     | n               | n  | -- | v  | n  | n  | v          | v      | v   | --   | v    | v            | v   | v   |
| 41                                     | n               | n  | -- | -- | -- | v  | v          | v      | v   | --   | v    | v            | v   | v   |
| Occupied Bandwidth                     |                 |    |    |    |    |    |            |        |     |      |      |              |     |     |
| 2                                      | v               | v  | v  | v  | v  | v  | v          | v      | --  | --   | v    | v            | v   | v   |
| 4                                      | v               | v  | v  | v  | v  | v  | v          | v      | --  | --   | v    | v            | v   | v   |
| 5                                      | v               | v  | v  | v  | n  | n  | v          | v      | --  | --   | v    | v            | v   | v   |
| 7                                      | n               | n  | v  | v  | v  | v  | v          | v      | --  | --   | v    | v            | v   | v   |
| 17                                     | n               | n  | v  | v  | n  | n  | v          | v      | --  | --   | v    | v            | v   | v   |
| 41                                     | n               | n  | v  | v  | v  | v  | v          | v      | --  | --   | v    | v            | v   | v   |
| Frequency Stability                    |                 |    |    |    |    |    |            |        |     |      |      |              |     |     |
| 2                                      | --              | -- | -- | v  | -- | -- | v          | v      | --  | --   | v    | --           | v   | --  |
| 4                                      | --              | -- | -- | v  | -- | -- | v          | v      | --  | --   | v    | --           | v   | --  |
| 5                                      | --              | -- | -- | v  | n  | n  | v          | v      | --  | --   | v    | --           | v   | --  |
| 7                                      | n               | n  | -- | v  | -- | -- | v          | v      | --  | --   | v    | --           | v   | --  |
| 17                                     | n               | n  | -- | v  | n  | n  | v          | v      | --  | --   | v    | --           | v   | --  |
| 41                                     | n               | n  | -- | v  | -- | -- | v          | v      | --  | --   | v    | --           | v   | --  |
| Spurious Emission at Antenna Terminals |                 |    |    |    |    |    |            |        |     |      |      |              |     |     |
| 2                                      | v               | v  | v  | v  | v  | v  | v          | v      | v   | --   | --   | v            | v   | v   |
| 4                                      | v               | v  | v  | v  | v  | v  | v          | v      | v   | --   | --   | v            | v   | v   |
| 5                                      | v               | v  | v  | v  | n  | n  | v          | v      | v   | --   | --   | v            | v   | v   |
| 7                                      | n               | n  | v  | v  | v  | v  | v          | v      | v   | --   | --   | v            | v   | v   |
| 17                                     | n               | n  | v  | v  | n  | n  | v          | v      | v   | --   | --   | v            | v   | v   |
| 41                                     | n               | n  | v  | v  | v  | v  | v          | v      | v   | --   | --   | v            | v   | v   |
| Band Edge                              |                 |    |    |    |    |    |            |        |     |      |      |              |     |     |
| 2                                      | v               | v  | v  | v  | v  | v  | v          | v      | v   | --   | v    | v            | --  | v   |
| 4                                      | v               | v  | v  | v  | v  | v  | v          | v      | v   | --   | v    | v            | --  | v   |
| 5                                      | v               | v  | v  | v  | n  | n  | v          | v      | v   | --   | v    | v            | --  | v   |
| 7                                      | n               | n  | v  | v  | v  | v  | v          | v      | v   | --   | v    | v            | --  | v   |
| 17                                     | n               | n  | v  | v  | n  | n  | v          | v      | v   | --   | v    | v            | --  | v   |
| 41                                     | n               | n  | v  | v  | v  | v  | v          | v      | v   | --   | v    | v            | --  | v   |

| LTE Band                                                                  | Bandwidth (MHz) |   |   |    |    |    | Modulation |        | RB# |      |      | Test Channel |     |     |
|---------------------------------------------------------------------------|-----------------|---|---|----|----|----|------------|--------|-----|------|------|--------------|-----|-----|
|                                                                           | 1.4             | 3 | 5 | 10 | 15 | 20 | QPSK       | 16-QAM | 1   | Half | Full | LCH          | MCH | HCH |
| Field Strength of Spurious Radiation                                      |                 |   |   |    |    |    |            |        |     |      |      |              |     |     |
| 2                                                                         | v               | v | v | v  | v  | v  | v          | --     | v   | --   | --   | --           | v   | --  |
| 4                                                                         | v               | v | v | v  | v  | v  | v          | --     | v   | --   | --   | --           | v   | --  |
| 5                                                                         | v               | v | v | v  | n  | n  | v          | --     | v   | --   | --   | --           | v   | --  |
| 7                                                                         | n               | n | v | v  | v  | v  | v          | --     | v   | --   | --   | --           | v   | --  |
| 17                                                                        | n               | n | v | v  | n  | n  | v          | --     | v   | --   | --   | --           | v   | --  |
| 41                                                                        | n               | n | v | v  | v  | v  | v          | --     | v   | --   | --   | --           | v   | --  |
| Note 1: The mark "v" means that this configuration is chosen for testing. |                 |   |   |    |    |    |            |        |     |      |      |              |     |     |
| Note 2: The mark "n" means that this bandwidth is not supported.          |                 |   |   |    |    |    |            |        |     |      |      |              |     |     |

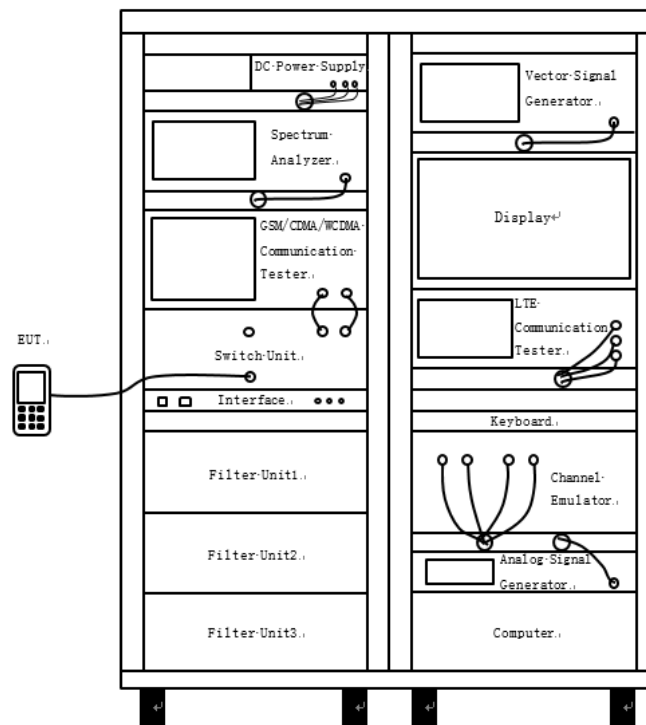
| Test Mode              | UL Channel | UL Channel No. | UL Frequency (MHz) |
|------------------------|------------|----------------|--------------------|
| GSM/GPRS/EGPRS<br>850  | LCH        | 128            | 824.2              |
|                        | MCH        | 190            | 836.6              |
|                        | HCH        | 251            | 848.8              |
| GSM/GPRS/EGPRS<br>1900 | LCH        | 512            | 1850.2             |
|                        | MCH        | 661            | 1880.0             |
|                        | HCH        | 810            | 1909.8             |
| WCDMA Band 2           | LCH        | 9262           | 1852.4             |
|                        | MCH        | 9400           | 1880.0             |
|                        | HCH        | 9538           | 1907.6             |
| WCDMA Band 5           | LCH        | 4132           | 826.4              |
|                        | MCH        | 4182           | 836.4              |
|                        | HCH        | 4233           | 846.6              |
| CDMA/EVDO BC0          | LCH        | 1013           | 824.70             |
|                        | MCH        | 384            | 836.52             |
|                        | HCH        | 777            | 848.31             |

| Test Mode  | UL Channel | Channel Bandwidth (MHz) | UL Channel No. | UL Frequency (MHz) |
|------------|------------|-------------------------|----------------|--------------------|
| LTE Band 2 | Low Range  | 1.4                     | 18607          | 1850.7             |
|            |            | 3                       | 18615          | 1851.5             |
|            |            | 5                       | 18625          | 1852.5             |
|            |            | 10                      | 18650          | 1855               |
|            |            | 15                      | 18675          | 1857.5             |
|            |            | 20                      | 18700          | 1860               |
|            | Mid Range  | 1.4/3/5/10/15/20        | 18900          | 1880               |
|            | High Range | 1.4                     | 19193          | 1909.3             |
|            |            | 3                       | 19185          | 1908.5             |
|            |            | 5                       | 19175          | 1907.5             |
|            |            | 10                      | 19150          | 1905               |
|            |            | 15                      | 19125          | 1902.5             |
|            |            | 20                      | 19100          | 1900               |
| LTE Band 4 | Low Range  | 1.4                     | 19957          | 1710.7             |
|            |            | 3                       | 19965          | 1711.5             |
|            |            | 5                       | 19975          | 1712.5             |
|            |            | 10                      | 20000          | 1715               |
|            |            | 15                      | 20025          | 1717.5             |
|            |            | 20                      | 20050          | 1720               |
|            | Mid Range  | 1.4/3/5/10/15/20        | 20175          | 1732.5             |
|            | High Range | 1.4                     | 20393          | 1754.3             |
|            |            | 3                       | 20385          | 1753.5             |
|            |            | 5                       | 20375          | 1752.5             |
|            |            | 10                      | 20350          | 1750               |
|            |            | 15                      | 20325          | 1747.5             |
|            |            | 20                      | 20300          | 1745               |
| LTE Band 5 | Low Range  | 1.4                     | 20407          | 824.7              |
|            |            | 3                       | 20415          | 825.5              |
|            |            | 5                       | 20425          | 826.5              |
|            |            | 10                      | 20450          | 829                |
|            | Mid Range  | 1.4/3/5/10              | 20525          | 836.5              |
|            | High Range | 1.4                     | 20643          | 848.3              |
|            |            | 3                       | 20635          | 847.5              |
|            |            | 5                       | 20625          | 846.5              |
|            |            | 10                      | 20600          | 844                |
| LTE Band 7 | Low Range  | 5                       | 20775          | 2502.5             |
|            |            | 10                      | 20800          | 2505               |
|            |            | 15                      | 20825          | 2507.5             |
|            |            | 20                      | 20850          | 2510               |
|            | Mid Range  | 5/10/15/20              | 21100          | 2535               |
|            | High Range | 5                       | 21425          | 2567.5             |
|            |            | 10                      | 21400          | 2565               |

| Test Mode   | UL Channel | Channel Bandwidth (MHz) | UL Channel No. | UL Frequency (MHz) |
|-------------|------------|-------------------------|----------------|--------------------|
|             |            | 15                      | 21375          | 2562.5             |
|             |            | 20                      | 21350          | 2560               |
| LTE Band 17 | Low Range  | 5                       | 23755          | 706.5              |
|             |            | 10                      | 23780          | 709                |
|             | Mid Range  | 5/10                    | 23790          | 710                |
|             | High Range | 5                       | 23825          | 713.5              |
|             |            | 10                      | 23800          | 711                |
|             |            |                         |                |                    |
| LTE Band 41 | Low Range  | 5                       | 40265          | 2557.5             |
|             |            | 10                      | 40290          | 2560               |
|             |            | 15                      | 40315          | 2562.5             |
|             |            | 20                      | 40340          | 2565               |
|             | Mid Range  | 5/10/15/20              | 40740          | 2605               |
|             | High Range | 5                       | 41215          | 2652.5             |
|             |            | 10                      | 41190          | 2650               |
|             |            | 15                      | 41165          | 2647.5             |
|             |            | 20                      | 41140          | 2645               |
|             |            |                         |                |                    |
|             |            |                         |                |                    |
|             |            |                         |                |                    |

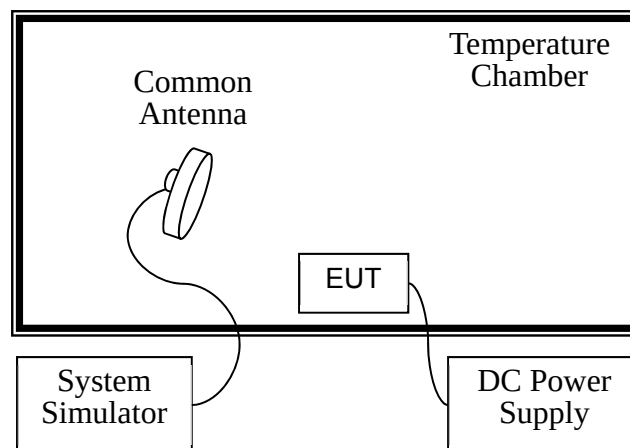
## 4.4 Test Setup

### 4.4.1 For Antenna Port Test



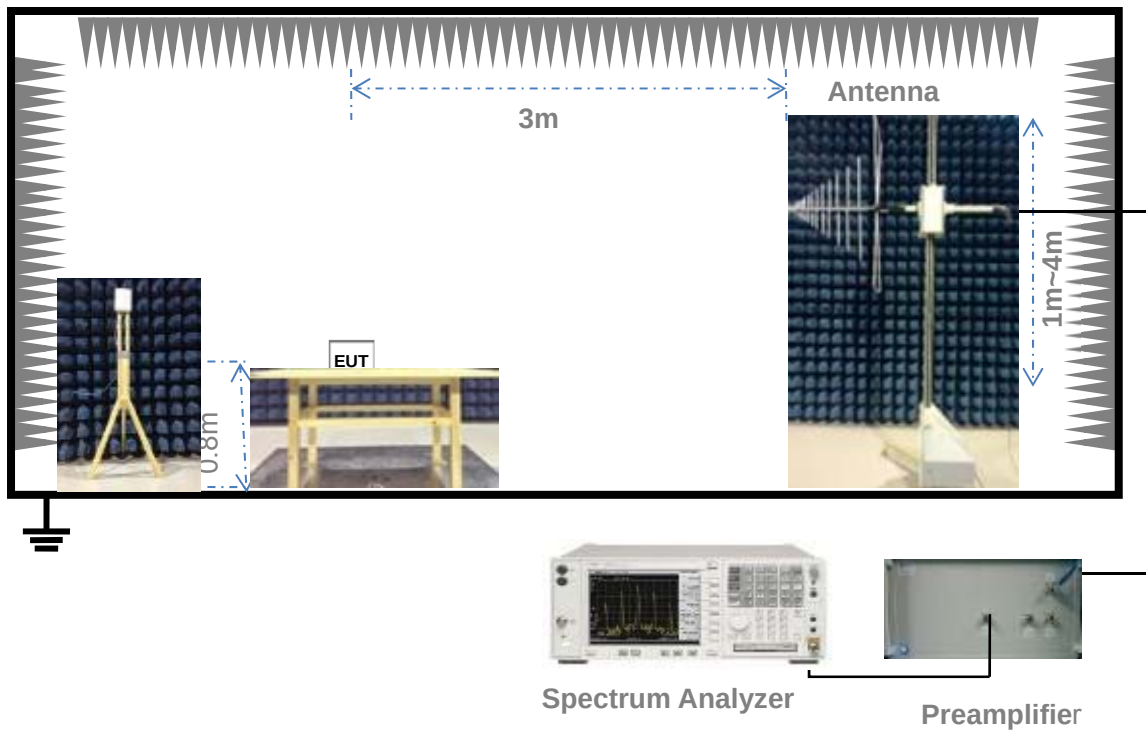
(Diagram 1)

### 4.4.2 For Frequency Stability Test



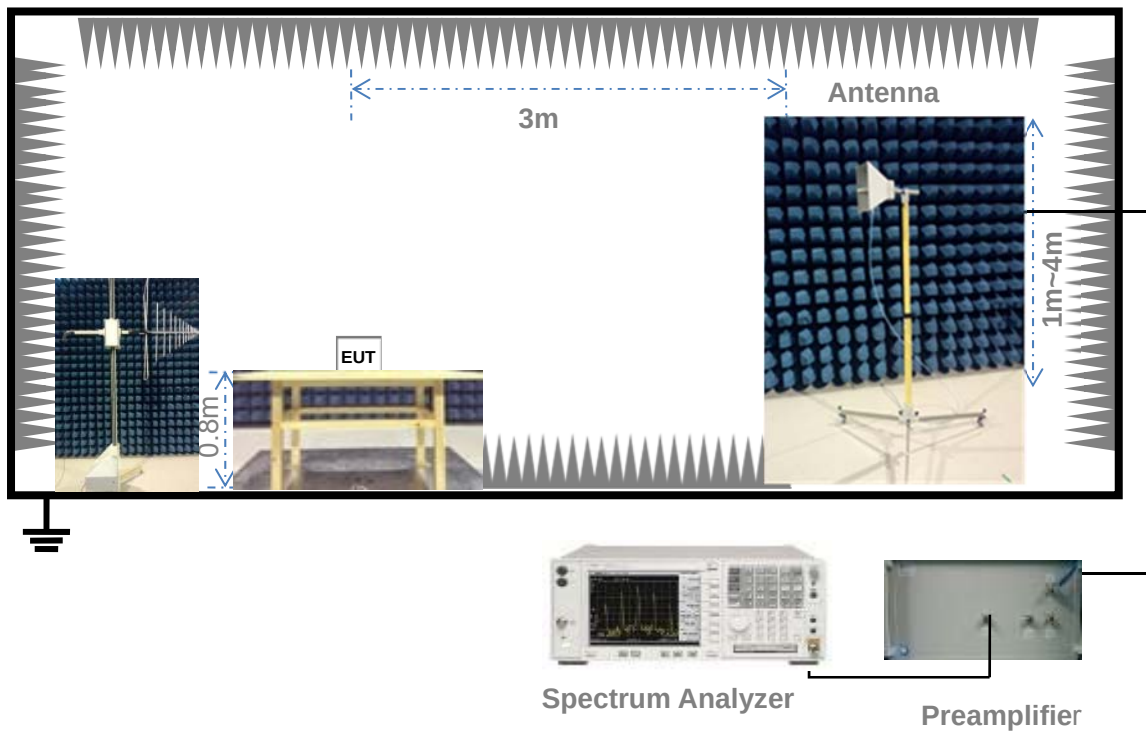
(Diagram 2)

#### 4.4.3 For Radiated Test (30 MHz-1 GHz)



(Diagram 3)

#### 4.4.4 For Radiated Test (Above 1 GHz)



(Diagram 4)



## 5 TEST ITEMS

### 5.1 Transmitter Radiated Power (EIRP/ERP)

#### 5.1.1 Limit

FCC § 2.1046(a) & 22.913(a) & 24.232(c) & 27.50(b) & 27.50(c) & 27.50(d) & 27.50(h)

According to FCC section 22.913(a) (2), the Effective Radiated Power (ERP) of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC section 24.232(c), Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

According to FCC section 27.50(b) (10), portable stations (hand-held devices) transmitting in the 746-757MHz, 776-788MHz, and 805-806MHz bands are limited to 3 watts ERP.

FCC section 27.50(c) (10), portable stations (hand-held devices) in the 698-746MHz band are limited to 3 watts ERP.

FCC section 27.50(d) (4), Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP. Fixed stations operating in the 1710-1755 MHz band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

(7) Fixed, mobile, and portable (hand-held) stations operating in the 2000-2020 MHz band are limited to 2 watts EIRP.

And FCC section 27.50(h) (2), for mobile and other user stations, mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

RSS-132 § 5.4 & RSS-133 § 6.4 & RSS-139 § 6.5 & RSS-199 § 4.4

According to RSS-132 § 5.4, the Effective Radiated Power (ERP) for mobile equipment shall not exceed 11.5 watts.

According to RSS-133 § 6.4 (SRSP 510), mobile stations and hand-held portables are limited to 2 watts maximum EIRP.

According to RSS-139 § 6.5, the EIRP for mobile and portable transmitters shall not exceed 1 watt.

According to RSS-199 § 4.4, for mobile subscriber equipment, the EIRP shall not exceed 2 watts.

#### 5.1.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description is used for this test. The photo of test setup please refer to ANNEX B.

### 5.1.3 Test Procedure

#### Description of the Conducted Output Power Measurement

The EUT is coupled to the SS with attenuator through power splitter; the RF load attached to EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. A system simulator is used to establish communication with the EUT, and its parameters are 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.

Note: Reference test setup 4.4.1 (Diagram 1)

The relevant equation for determining the conducted measured value is:

$$\text{Conducted Output Power Value (dBm)} = \text{Measured Value (dBm)} + \text{Path Loss (dB)}$$

where:

Conducted Output Power Value = final conducted measured value in the conducted power test, in dBm;

Measured Value = measured conducted power received by spectrum analyzer or power meter, in dBm;

Path Loss = signal attenuation in the connecting cable between the transmitter and spectrum analyzer or power meter, including external cable loss, in dB;

During the test, the data of Path Loss (dB) is added in the spectrum analyzer or power meter, so Measured Value (dBm) is the final values which contains the data of Path Loss (dB).

For example:

In the conducted output power test, when measured value for GSM850 is 24.7 dBm, and path loss is 8.5 dB, then final conducted output power value is:

$$\text{Conducted Output Power Value (dBm)} = 24.7 \text{ dBm} + 8.5 \text{ dB} = 33.2 \text{ dBm}$$

#### Description of the Transmitter Radiated Power Measurement

In many cases, the RF output power limits for licensed digital transmission devices is specified in terms of effective radiated power (ERP) or equivalent isotropic radiated power (EIRP). Typically, ERP is specified when the operating frequency is less than or equal to 1 GHz and EIRP is specified when the operating frequency is greater than 1 GHz. Both are determined by adding the transmit antenna gain to the conducted RF output power with the primary difference between the two being that when determining the ERP, the transmit antenna gain is referenced to a dipole antenna (i.e., dBd) whereas when determining the EIRP, the transmit antenna gain is referenced to an isotropic antenna (dBi).

#### Final measurement calculation as below:

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

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

where:

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as  $P_{\text{Meas}}$ , typically dBW or dBm);

$P_{Meas}$  = measured transmitter output power or PSD, in dBm or dBW;

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

dBd (ERP)=dBi (EIRP) -2.15 dB

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

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

For example:

In the ERP test, when  $P_{Meas}$  value for GSM850 is 33.2 dBm, LC is 0.6 dB, and GT is -3.4 dB, then final ERP value is:

ERP for GSM 850 = 33.2 dBm - 3.4 dBi - 0.6 dB = 29.2 dBm

Note: Reference test setup 4.4.1 (Diagram 1)

The relevant equation for determining the ERP/EIRP from the radiated RF output power is:

ERP/EIRP (dBm) = SA Read Value (dBm) + Correction Factor (dB)

where:

ERP/EIRP = effective or equivalent radiated power, in dBm;

SA Read Value = measured transmitter power received by EMI receiver or spectrum analyzer, in dBm;

Correction Factor = total correction factor including cable loss, in dB;

During the test, the data of Correction Factor (dB) is added in the EMI receiver or spectrum analyzer, so SA Read Value (dBm) is the final values which contains the data of Correction Factor (dB).

For example:

In the ERP test, when SA read value for GSM850 is 21dBm, and correction factor is 8dB, then final ERP value for GSM850 is:

ERP (dBm) = 21dBm + 8dB = 29dBm

Note: Reference test setup 4.4.3 and 4.4.4 (Diagram 3, 4)

#### 5.1.4 Test Result

Please refer to ANNEX A.1.

## 5.2 Peak to average ratio

### 5.2.1 Limit

FCC § 2.1046 & 24.232(d) & 27.50(d)

RSS-132 § 5.4 & RSS-133 § 6.4 & RSS-139 § 6.5 & RSS-199 § 4.4

In addition, when the transmitter power is measured in terms of average value, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time using a signal corresponding to the highest PAPR during periods of continuous transmission.

According to FCC section 24.232(d), power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with 24.232 (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of § 24.51. 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.

For FCC section 24.232(e), peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms equivalent voltage. The measurement results shall be properly adjusted for any instrument limitations, such as detector response times, limited resolution bandwidth capability when compared to the emission bandwidth, sensitivity, etc., so as to obtain a true peak measurement for the emission in question over the full bandwidth of the channel.

According to FCC section 27.50(d), in measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

### 5.2.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description is used for this test. The photo of test setup please refer to ANNEX B.

### 5.2.3 Test Procedure

Here the lowest, middle and highest channels are selected to perform testing to verify the peak-to-average ratio.

According to KDB 971168 D01, there is CCDF procedure for PAPR:

- a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- b) Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Set the measurement interval as follows:
  - 1) for continuous transmissions, set to 1 ms,
  - 2) for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.

e) Record the maximum PAPR level associated with a probability of 0.1%.

Alternate procedure for PAPR:

Use one of the procedures presented in 4.1 to measure the total peak power and record as  $P_{Pk}$ . Use one of the applicable procedures presented 4.2 to measure the total average power and record as  $P_{Avg}$ . Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:

$$PAPR (dB) = P_{Pk} (dBm) - P_{Avg} (dBm).$$

Note: Reference test setup 4.4.1 (Diagram 1).

#### 5.2.4 Test Result

Please refer to ANNEX A.2.

## 5.3 Occupied Bandwidth

### 5.3.1 Limit

FCC § 2.1049

RSS-Gen § 6.6

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

Many of the individual rule parts specify a relative OBW in lieu of the 99% OBW. In such cases, the OBW is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated by at least X dB below the transmitter power, where the value of X is typically specified as 26.

### 5.3.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description is used for this test. The photo of test setup please refer to ANNEX B.

### 5.3.3 Test Procedure

The following procedure shall be used for measuring power bandwidth.

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (i.e., two to five times the anticipated OBW).
- b) The nominal IF filter bandwidth (3 dB 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.
- c) Set the reference level of the instrument as required to keep the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope must be at least  $10\log(\text{OBW} / \text{RBW})$  below the reference level.
- d) NOTE—Steps a) through c) may require iteration to adjust within the specified tolerances.
- e) For -26 dB OBW, the dynamic range of the spectrum analyzer at the selected RBW shall be at least 10dB below the target “-X dB down” requirement, e.g. -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be 36dB below the reference value.
- f) Set the detection mode to peak, and the trace mode to max hold.
- g) For 99% OBW, use the 99 % power bandwidth function of the spectrum analyzer (if available) and report the measured bandwidth.

If the instrument does not have a 99 % power bandwidth function, the trace data points are to be recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99 % power bandwidth is the difference between these two frequencies.

h) For -26 dB OBW, 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).

Determine the “-X dB down amplitude” as equal to (reference value -X). Alternatively, this calculation can be performed by the analyzer by using the marker-delta function.

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 “-X dB down amplitude” determined in step g). 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.

i) The OBW shall be reported by providing plot(s) of the measuring instrument display. The frequency and amplitude axes and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

j) Change variable modulations, coding, or channel bandwidth settings, then repeat above test procedures.

Note: Reference test setup 4.4.1 (Diagram 1).

#### 5.3.4 Test Result

Please refer to ANNEX A.3.

## 5.4 Frequency Stability

### 5.4.1 Limit

FCC § 2.1055 & 22.355 & 24.235 & 27.54

RSS-Gen § 6.11 & RSS-132 § 5.3 & RSS-133 § 6.3 & RSS-139 § 6.4 & RSS-199 § 4.3

FCC § 2.1055

The frequency stability shall be measured with variation of ambient temperature as follows:

- (1) The temperature is varied from -30°C to +50°C.
- (2) Frequency measurements shall be made at the extremes of the specified temperature range and at intervals of not more than 10°C through the range.

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

- (1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than carried battery equipment.
- (2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery operating and point which shall be specified by the manufacture.
- (3) The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

FCC § 22.355

Except as otherwise provided in this part, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table C-1 of this section.

**Table C-1—Frequency Tolerance for Transmitters in the Public Mobile Services**

| Frequency range (MHz) | Base, fixed (ppm) | Mobile > 3 watts (ppm) | Mobile ≤ 3 watts (ppm) |
|-----------------------|-------------------|------------------------|------------------------|
| 25 to 50              | 20.0              | 20.0                   | 50.0                   |
| 50 to 450             | 5.0               | 5.0                    | 50.0                   |
| 450 to 512            | 2.5               | 5.0                    | 5.0                    |
| 821 to 896            | 1.5               | 2.5                    | 2.5                    |
| 928 to 929            | 5.0               | n/a                    | n/a                    |
| 929 to 960            | 1.5               | n/a                    | n/a                    |
| 2110 to 2220          | 10.0              | n/a                    | n/a                    |

FCC § 24.235

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

FCC § 27.54

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



#### 5.4.2 Test Setup

The section 4.4.2 (Diagram 2) test setup description is used for this test. The photo of test setup please refer to ANNEX B.

#### 5.4.3 Test Procedure

1. The EUT is placed in a temperature chamber.
2. The temperature is set to 20°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured.
3. The temperature is increased by not more than 10 degrees, allowed to stabilize and soak, and then repeat the frequency error measurement.
4. Repeat procedure 3 until +50°C is reached.
5. Change supply voltage, and repeat measurement until extreme voltage is reached.

Note: Reference test setup 4.4.2 (Diagram 2).

#### 5.4.4 Test Result

Please refer to ANNEX A.4.

## 5.5 Spurious Emission at Antenna Terminals

### 5.5.1 Limit

FCC § 2.1051 & 22.917(a) & 24.238(a) & 27.53(c) & 27.53(g) & 27.53(h) & 27.53(m)

RSS-Gen § 6.13 & RSS-132 § 5.5 & RSS-133 § 6.5 & RSS-139 § 6.6

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.

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

FCC § 22.917(a) & 24.238(a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. This is calculated to be -13 dBm.

FCC § 27.53(c)

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log(P)$  dB;
- (2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log(P)$  dB;
- (4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than  $65 + 10 \log(P)$  dB in a 6.25 kHz band segment, for mobile and portable stations;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

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;

- (6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

FCC § 27.53(g)

For operations in the 600MHz band and the 698-746MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least  $43 + 10 \log(P)$  dB.

FCC § 27.53(h) (1)

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log_{10}(P)$  dB.

FCC § 27.53(m) (4)

RSS-199 § 4.5

For mobile digital stations (BRS and EBS stations), the attenuation factor shall be not less than:

- $40 + 10 \log P$  dB ( $-10$  dBm,  $100$  nW) on all frequencies between the channel edge and  $5$  MHz from the channel edge.
- $43 + 10 \log P$  dB ( $-13$  dBm,  $50$  nW) on all frequencies between  $5$  MHz and  $X$  MHz from the channel edge,
- $55 + 10 \log P$  dB ( $-25$  dBm,  $3$  nW) on all frequencies more than  $X$  MHz from the channel edge, where  $X$  is the greater of  $6$  MHz or the actual emission bandwidth ( $26$  dB).

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.

### 5.5.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

### 5.5.3 Test Procedure

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power ( $P$ ) by at least  $43 + 10 \log(P)$  dB. Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of  $1$  MHz or greater. However, in the  $1$  MHz bands immediately outside and adjacent to the frequency blocks a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least  $26$  dB below the transmitter power.

1. The EUT is coupled to the system simulator and spectrum analyzer; the RF load attached to EUT antenna terminal is  $50\Omega$ ; the path loss as the factor is calibrated to correct the reading.
2. CMW500 is used to establish communication with the EUT, and its parameters are set to force the EUT transmitting at maximum output power.
3. The RF output of the transmitter is connected to the input of the spectrum analyzer through sufficient attenuation.
4. Spurious emissions are tested with  $0.001$  MHz RBW for frequency less than  $150$  kHz,  $0.01$  MHz RBW for frequency less than  $30$  MHz,  $0.1$  MHz RBW for frequency less than  $1$  GHz, and  $1$  MHz RBW for frequency above  $1$  GHz. And sweep point number are at least  $401$ , referring to following formula.

Sweep point number = Span/RBW

VBW=3\*RBW

Detector Mode=mean or average power

5. Record the frequencies and levels of spurious emissions.

Note: Reference test setup 4.4.1 (Diagram 1).

#### 5.5.4 Test Result

Please refer to ANNEX A.5.

## 5.6 Band Edge

### 5.6.1 Limit

FCC § 2.1051 & 22.917(a) & 24.238(a) & 27.53(c) & 27.53(g) & 27.53(h) & 27.53(m)

RSS-132 § 5.5 & RSS-133 § 6.5 & RSS-139 § 6.6

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.

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

FCC § 22.917 & 24.238

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. This is calculated to be -13 dBm.

FCC § 27.53(c)

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log(P)$  dB;
- (2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log(P)$  dB;
- (4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than  $65 + 10 \log(P)$  dB in a 6.25 kHz band segment, for mobile and portable stations;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. 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;
- (6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

FCC § 27.53(g)

For operations in the 600MHz band and the 698-746MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least  $43 + 10 \log(P)$  dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC § 27.53(h) (1)

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the

power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log_{10}(P)$  dB.

FCC § 27.53(m) (4)

RSS-199 § 4.5

For mobile digital stations (BRS and EBS stations), the attenuation factor shall be not less than:

- $40 + 10 \log P$  dB ( $-10$  dBm,  $100$  nW) on all frequencies between the channel edge and  $5$  MHz from the channel edge.
- $43 + 10 \log P$  dB ( $-13$  dBm,  $50$  nW) on all frequencies between  $5$  MHz and  $X$  MHz from the channel edge,
- $55 + 10 \log P$  dB ( $-25$  dBm,  $3$  nW) on all frequencies more than  $X$  MHz from the channel edge, where  $X$  is the greater of  $6$  MHz or the actual emission bandwidth ( $26$  dB).

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.

### 5.6.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

### 5.6.3 Test Procedure

The EUT, which is powered by the Battery, is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is  $50$  Ohm; the path loss as the factor is calibrated to correct the reading.

1. The EUT is coupled to the system simulator and spectrum analyzer; the RF load attached to EUT antenna terminal is  $50$  Ohm; the path loss as the factor is calibrated to correct the reading.
2. CMW500 is used to establish communication with the EUT, and its parameters are set to force the EUT transmitting at maximum output power.
3. The RF output of the transmitter is connected to the input of the spectrum analyzer through sufficient attenuation.
4. The center of the spectrum analyzer was set to block edge frequency.
5. Band edge are tested with  $1\% \text{cBW}$  (RBW), and sweep point number referred to following formula.

$$\text{Sweep point number} = 2 * \text{Span} / \text{RBW}$$

$$\text{VBW} = 3 \text{RBW}$$

6. Record the frequencies and levels of spurious emissions.

Note: Reference test setup 4.4.1 (Diagram 1).

#### 5.6.4 Test Result

Please refer to ANNEX A.6.

## 5.7 Field Strength of Spurious Radiation

### 5.7.1 Limit

FCC § 2.1053 & 22.917(a) & 24.238(a) & 27.53(c) & 27.53(g) & 27.53(h) & 27.53(m)

RSS-Gen § 6.13 & RSS-132 § 5.5 & RSS-133 § 6.5 & RSS-139 § 6.6

FCC § 22.917(a) & 24.238(a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43+10\log(P)$  dB. This is calculated to be -13 dBm.

FCC § 27.53(c)

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log (P)$  dB;

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log (P)$  dB;

(4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than  $65 + 10 \log (P)$  dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

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;

(6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

FCC § 27.53(g)

For operations in the 600MHz band and the 698-746MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least  $43+10\log(P)$  dB.

FCC § 27.53(h) (1)

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log_{10} (P)$  dB.

FCC § 27.53(m) (4)

RSS-199 § 4.5

For mobile digital stations (BRS and EBS stations), the attenuation factor shall be not less than:



- $40+10\log P$  dB ( $-10$  dBm,  $100$  nW) on all frequencies between the channel edge and  $5$  MHz from the channel edge.
- $43+10\log P$  dB ( $-13$  dBm,  $50$  nW) on all frequencies between  $5$  MHz and  $X$  MHz from the channel edge,
- $55+10\log P$  dB ( $-25$  dBm,  $3$  nW) on all frequencies more than  $X$  MHz from the channel edge, where  $X$  is the greater of  $6$  MHz or the actual emission bandwidth ( $26$  dB).

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.

### 5.7.2 Test Setup

The section 4.4.3 and 4.4.4 (Diagram 3, 4) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

### 5.7.3 Test Procedure

1. On a test site, the EUT shall be placed at  $80$ cm height on a turn table, and in the position close to normal use as declared by the applicant.
2. The test antenna shall be oriented initially for vertical polarization located  $3$  m from EUT to correspond to the fundamental frequency of the transmitter.
3. The output of the test antenna shall be connected to the measuring receiver and the peak detector is used for the measurement.
4. During the measurement of the EUT, the resolution bandwidth was to  $1$  MHz and the average bandwidth was set to  $1$  MHz.
5. The transmitter shall be switched on; the measuring receiver shall be tuned to the frequency of the transmitter under test.
6. The test antenna shall be raised and lowered through the specified range of height until the maximum signal level is detected by the measuring receiver.
7. The transmitter shall be rotated through  $360^\circ$  in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
8. The test antenna shall be raised and lowered again through the specified range of height until the maximum signal level is detected by the measuring receiver.
9. The maximum signal level detected by the measuring receiver shall be noted.
10. The EUT was replaced by half-wave dipole ( $824 \sim 849$  MHz) or horn antenna ( $1\,850 \sim 1\,910$  MHz) connected to a signal generator.
11. In necessary, the input attenuator setting on the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
12. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
13. The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, which is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.

14. The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
15. The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.

Final measurement calculation as below:

The relevant equation for determining the ERP/EIRP from the radiated RF output power is:

$$\text{ERP/EIRP (dBm)} = \text{SA Read Value (dBm)} + \text{Correction Factor (dB)}$$

where:

ERP/EIRP = effective or equivalent radiated power, in dBm;

SA Read Value = measured transmitter power received by EMI receiver or spectrum analyzer, in dBm;

Correction Factor = total correction factor including cable loss, in dB;

During the test, the data of Correction Factor (dB) is added in the EMI receiver or spectrum analyzer, so SA Read Value (dBm) is the final values which contains the data of Correction Factor (dB).

For example:

In the ERP test, when SA read value for GSM850 is 21dBm, and correction factor is 8dB, then final ERP value for GSM850 is:

$$\text{ERP (dBm)} = 21\text{dBm} + 8\text{dB} = 29\text{dBm}$$

Note: Reference test setup 4.4.3 and 4.4.4 (Diagram 3, 4)

#### 5.7.4 Test Result

Please refer to ANNEX A.7.

## 5.8 Receiver Spurious Emissions

RSS-Gen § 7.1 & RSS-132 § 5.6 & RSS-133 § 6.6

For emissions at frequencies below 1 GHz, measurements shall be performed using a CISPR quasi-peak detector and the related measurement bandwidth. At frequencies above 1 GHz, measurements shall be performed using a linear average detector with a minimum resolution bandwidth of 1 MHz.

As an alternative to CISPR quasi-peak or average measurements, compliance with the emission limit can be demonstrated using measuring equipment employing a peak detector function properly adjusted for factors such as pulse desensitization, as required, with a measurement bandwidth equal to, or greater than, the applicable CISPR quasi-peak bandwidth or 1 MHz bandwidth, respectively.

### Receiver Radiated Limits

Radiated emission measurements shall be performed with the receiver antenna connected to the receiver antenna terminals. The search for spurious emissions shall be from the lowest frequency internally generated or used in the receiver (e.g. local oscillator, intermediate or carrier frequency), or 30 MHz, whichever is higher, to at least 5x the highest tunable or local oscillator frequency, whichever is higher, without exceeding 40 GHz.

Spurious emissions from receivers shall not exceed the radiated limits shown in Table 2 below:

**Table 2 – Receiver Radiated Limits**

| Frequency (MHz) | Field Strength ( $\mu\text{V/m}$ at 3 metres) |
|-----------------|-----------------------------------------------|
| 30-88           | 100                                           |
| 88-216          | 150                                           |
| 216-960         | 200                                           |
| Above 960       | 500                                           |

### Receiver Conducted Limits

If the receiver has a detachable antenna of known impedance, an antenna-conducted spurious emissions measurement is permitted as an alternative to radiated measurement. However, the radiated method is preferred.

The antenna-conducted test shall be performed with the antenna disconnected and with the receiver antenna terminals connected to a measuring instrument having equal impedance to that specified for the antenna.

The receiver-spurious emissions measured at the antenna terminals by the antenna-conducted method shall then comply with the following limits:

Receiver-spurious emissions at any discrete frequency shall not exceed 2 nW in the band 30-1000 MHz, nor 5 nW above 1000 MHz.

## ANNEX A TEST RESULTS

### A.1 Transmitter Radiated Power (EIRP/ERP)

#### A.1.1 Conducted Output Power

##### GSM Mode Test Data

| Test Band | Test Channel | PCL | Conducted Output Peak Power (dBm) | Conducted Output Peak Power (W) |
|-----------|--------------|-----|-----------------------------------|---------------------------------|
| GSM 850   | LCH          | 5   | 32.23                             | 1.67                            |
|           | MCH          | 5   | 32.39                             | 1.73                            |
|           | HCH          | 5   | 32.30                             | 1.70                            |
| GPRS 850  | LCH          | 5   | 32.32                             | 1.71                            |
|           | MCH          | 5   | 32.46                             | 1.76                            |
|           | HCH          | 5   | 32.49                             | 1.77                            |
| EGPRS 850 | LCH          | 8   | 29.02                             | 0.80                            |
|           | MCH          | 8   | 29.20                             | 0.83                            |
|           | HCH          | 8   | 29.24                             | 0.84                            |

| Test Band  | Test Channel | PCL | Conducted Output Peak Power (dBm) | Conducted Output Peak Power (W) |
|------------|--------------|-----|-----------------------------------|---------------------------------|
| GSM 1900   | LCH          | 0   | 30.03                             | 1.01                            |
|            | MCH          | 0   | 29.76                             | 0.95                            |
|            | HCH          | 0   | 29.58                             | 0.91                            |
| GPRS 1900  | LCH          | 0   | 30.02                             | 1.00                            |
|            | MCH          | 0   | 29.80                             | 0.95                            |
|            | HCH          | 0   | 29.58                             | 0.91                            |
| EGPRS 1900 | LCH          | 2   | 28.45                             | 0.70                            |
|            | MCH          | 2   | 28.21                             | 0.66                            |
|            | HCH          | 2   | 28.02                             | 0.63                            |

Note 1: For the GPRS and EGPRS mode, all the slots were tested and just the worst data were recorded in this table.

Note 2: Set PCL to 5 for GSM/GPRS 850 (power class 4) and 0 for GSM/GPRS 1900 (power class 1). Set PCL to 8 for EGPRS850 (power class E2) and 2 for EGPRS1900 (power class E2).

### GPRS Conducted Output Power

| Band         | Channel | Conducted Output Peak Power |               |                 |               |                 |               |                 |               |
|--------------|---------|-----------------------------|---------------|-----------------|---------------|-----------------|---------------|-----------------|---------------|
|              |         | Slot 1<br>(dBm)             | Slot 1<br>(W) | Slot 2<br>(dBm) | Slot 2<br>(W) | Slot 3<br>(dBm) | Slot 3<br>(W) | Slot 4<br>(dBm) | Slot 4<br>(W) |
| GPRS<br>850  | LCH     | 32.32                       | 1.71          | 31.23           | 1.33          | 30.04           | 1.01          | 28.88           | 0.77          |
|              | MCH     | 32.46                       | 1.76          | 31.36           | 1.37          | 30.16           | 1.04          | 29.09           | 0.81          |
|              | HCH     | 32.49                       | 1.77          | 31.44           | 1.39          | 30.24           | 1.06          | 29.09           | 0.81          |
| GPRS<br>1900 | LCH     | 30.02                       | 1.00          | 29.40           | 0.87          | 28.22           | 0.66          | 26.98           | 0.50          |
|              | MCH     | 29.80                       | 0.95          | 29.22           | 0.84          | 28.02           | 0.63          | 26.79           | 0.48          |
|              | HCH     | 29.58                       | 0.91          | 29.04           | 0.80          | 27.79           | 0.60          | 26.79           | 0.48          |

### EGPRS Conducted Output Power

| Band          | Channel | Conducted Output Peak Power |               |                 |               |                 |               |                 |               |
|---------------|---------|-----------------------------|---------------|-----------------|---------------|-----------------|---------------|-----------------|---------------|
|               |         | Slot 1<br>(dBm)             | Slot 1<br>(W) | Slot 2<br>(dBm) | Slot 2<br>(W) | Slot 3<br>(dBm) | Slot 3<br>(W) | Slot 4<br>(dBm) | Slot 4<br>(W) |
| EGPRS<br>850  | LCH     | 29.02                       | 0.80          | 27.85           | 0.61          | 26.69           | 0.47          | 25.49           | 0.35          |
|               | MCH     | 29.20                       | 0.83          | 27.88           | 0.61          | 26.60           | 0.46          | 25.43           | 0.35          |
|               | HCH     | 29.24                       | 0.84          | 27.92           | 0.62          | 26.53           | 0.45          | 25.51           | 0.36          |
| EGPRS<br>1900 | LCH     | 28.45                       | 0.70          | 27.23           | 0.53          | 26.10           | 0.41          | 24.95           | 0.31          |
|               | MCH     | 28.21                       | 0.66          | 26.93           | 0.49          | 25.68           | 0.37          | 24.57           | 0.29          |
|               | HCH     | 28.02                       | 0.63          | 26.79           | 0.48          | 25.46           | 0.35          | 24.24           | 0.27          |

WCDMA Mode Test Data:

| Test Band    | Test Channel | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|--------------|--------------|--------------------------------------|------------------------------------|
| WCDMA Band 2 | LCH          | 22.17                                | 0.16                               |
|              | MCH          | 22.15                                | 0.16                               |
|              | HCH          | 22.15                                | 0.16                               |
| HSDPA Band 2 | LCH          | 21.41                                | 0.14                               |
|              | MCH          | 21.27                                | 0.13                               |
|              | HCH          | 21.30                                | 0.13                               |
| HSUPA Band 2 | LCH          | 21.52                                | 0.14                               |
|              | MCH          | 21.28                                | 0.13                               |
|              | HCH          | 21.25                                | 0.13                               |

| Test Band    | Test Channel | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|--------------|--------------|--------------------------------------|------------------------------------|
| WCDMA Band 5 | LCH          | 22.45                                | 0.18                               |
|              | MCH          | 22.36                                | 0.17                               |
|              | HCH          | 22.38                                | 0.17                               |
| HSDPA Band 5 | LCH          | 21.70                                | 0.15                               |
|              | MCH          | 21.53                                | 0.14                               |
|              | HCH          | 21.48                                | 0.14                               |
| HSUPA Band 5 | LCH          | 21.26                                | 0.13                               |
|              | MCH          | 21.34                                | 0.14                               |
|              | HCH          | 21.50                                | 0.14                               |

Note 1: For the HSDPA and HSUPA mode, all the subtests were tested and just the worst data were recorded in this table.

### HSDPA Conducted Output Power

| Band            | Channel | Conducted Output Average Power |      |          |      |          |      |          |      |
|-----------------|---------|--------------------------------|------|----------|------|----------|------|----------|------|
|                 |         | Subtest1                       |      | Subtest2 |      | Subtest3 |      | Subtest4 |      |
|                 |         | (dBm)                          | (W)  | (dBm)    | (W)  | (dBm)    | (W)  | (dBm)    | (W)  |
| HSDPA<br>Band 2 | LCH     | 21.3                           | 0.13 | 21.41    | 0.14 | 20.91    | 0.12 | 20.91    | 0.12 |
|                 | MCH     | 21.27                          | 0.13 | 21.27    | 0.13 | 20.8     | 0.12 | 20.61    | 0.12 |
|                 | HCH     | 21.22                          | 0.13 | 21.3     | 0.13 | 20.83    | 0.12 | 20.84    | 0.12 |
| HSDPA<br>Band 5 | LCH     | 21.3                           | 0.13 | 21.41    | 0.14 | 20.91    | 0.12 | 20.91    | 0.12 |
|                 | MCH     | 21.27                          | 0.13 | 21.27    | 0.13 | 20.8     | 0.12 | 20.61    | 0.12 |
|                 | HCH     | 21.22                          | 0.13 | 21.3     | 0.13 | 20.83    | 0.12 | 20.84    | 0.12 |

### HSUPA Conducted Output Power

| Band            | Channel | Conducted Output Average Power |      |          |      |          |      |          |      |          |      |
|-----------------|---------|--------------------------------|------|----------|------|----------|------|----------|------|----------|------|
|                 |         | Subtest1                       |      | Subtest2 |      | Subtest3 |      | Subtest4 |      | Subtest5 |      |
|                 |         | (dBm)                          | (W)  | (dBm)    | (W)  | (dBm)    | (W)  | (dBm)    | (W)  | (dBm)    | (W)  |
| HSUPA<br>Band 2 | LCH     | 21.52                          | 0.14 | 19.48    | 0.09 | 20.43    | 0.11 | 19.36    | 0.09 | 21.34    | 0.14 |
|                 | MCH     | 21.28                          | 0.13 | 19.25    | 0.08 | 20.11    | 0.10 | 19.3     | 0.09 | 20.96    | 0.12 |
|                 | HCH     | 21.25                          | 0.13 | 19.23    | 0.08 | 20.27    | 0.11 | 19.28    | 0.08 | 21.17    | 0.13 |
| HSUPA<br>Band 5 | LCH     | 21.52                          | 0.14 | 19.48    | 0.09 | 20.43    | 0.11 | 19.36    | 0.09 | 21.34    | 0.14 |
|                 | MCH     | 21.28                          | 0.13 | 19.25    | 0.08 | 20.11    | 0.10 | 19.3     | 0.09 | 20.96    | 0.12 |
|                 | HCH     | 21.25                          | 0.13 | 19.23    | 0.08 | 20.27    | 0.11 | 19.28    | 0.08 | 21.17    | 0.13 |



### CDMA/EVDO Mode Test Data:

| Test Band | Test Configuration | UL Channel | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|-----------|--------------------|------------|--------------------------------------|------------------------------------|
| EVDO BC0  | Release 0          | LCH        | 23.43                                | 0.22                               |
|           |                    | MCH        | 23.56                                | 0.23                               |
|           |                    | HCH        | 23.47                                | 0.22                               |
|           | Revision A         | LCH        | 23.63                                | 0.23                               |
|           |                    | MCH        | 24.21                                | 0.26                               |
|           |                    | HCH        | 23.61                                | 0.23                               |

| Test Band | Test Configuration | UL Channel | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|-----------|--------------------|------------|--------------------------------------|------------------------------------|
| CDMA BC0  | F1R1               | LCH        | 23.96                                | 0.25                               |
|           |                    | MCH        | 24.2                                 | 0.26                               |
|           |                    | HCH        | 23.69                                | 0.23                               |
|           | F3R3               | LCH        | 23.91                                | 0.25                               |
|           |                    | MCH        | 24.07                                | 0.26                               |
|           |                    | HCH        | 23.69                                | 0.23                               |

### LTE Mode Test Data:

| Test BW          | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|------------------|--------------|------------|-----------------------|--------------------------------------|------------------------------------|
| <b>LTE Band2</b> |              |            |                       |                                      |                                    |
| 1.4 MHz          | LCH          | QPSK       | RB1#0                 | 22.54                                | 0.18                               |
|                  |              |            | RB1#3                 | 22.58                                | 0.18                               |
|                  |              |            | RB1#5                 | 22.43                                | 0.17                               |
|                  |              |            | RB3#0                 | 22.47                                | 0.18                               |
|                  |              |            | RB3#2                 | 22.56                                | 0.18                               |
|                  |              |            | RB3#3                 | 22.46                                | 0.18                               |
|                  |              |            | RB6#0                 | 21.57                                | 0.14                               |
|                  |              | 16-QAM     | RB1#0                 | 21.5                                 | 0.14                               |
|                  |              |            | RB1#3                 | 21.76                                | 0.15                               |
|                  |              |            | RB1#5                 | 21.71                                | 0.15                               |
|                  |              |            | RB3#0                 | 21.51                                | 0.14                               |
|                  |              |            | RB3#2                 | 21.5                                 | 0.14                               |
|                  |              |            | RB3#3                 | 21.63                                | 0.15                               |
|                  |              |            | RB6#0                 | 20.82                                | 0.12                               |
|                  | MCH          | QPSK       | RB1#0                 | 22.25                                | 0.17                               |
|                  |              |            | RB1#3                 | 22.2                                 | 0.17                               |
|                  |              |            | RB1#5                 | 22.02                                | 0.16                               |

| Test BW          | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|------------------|--------------|------------|-----------------------|--------------------------------------|------------------------------------|
| <b>LTE Band2</b> |              |            |                       |                                      |                                    |
|                  |              |            | RB3#0                 | 22.06                                | 0.16                               |
|                  |              |            | RB3#2                 | 22.09                                | 0.16                               |
|                  |              |            | RB3#3                 | 22.12                                | 0.16                               |
|                  |              |            | RB6#0                 | 21.27                                | 0.13                               |
|                  |              | 16-QAM     | RB1#0                 | 21.53                                | 0.14                               |
|                  |              |            | RB1#3                 | 21.61                                | 0.14                               |
|                  |              |            | RB1#5                 | 21.09                                | 0.13                               |
|                  |              |            | RB3#0                 | 20.91                                | 0.12                               |
|                  |              |            | RB3#2                 | 20.82                                | 0.12                               |
|                  |              |            | RB3#3                 | 20.74                                | 0.12                               |
|                  |              |            | RB6#0                 | 20.14                                | 0.10                               |
|                  | HCH          | QPSK       | RB1#0                 | 22.32                                | 0.17                               |
|                  |              |            | RB1#3                 | 22.69                                | 0.19                               |
|                  |              |            | RB1#5                 | 22.58                                | 0.18                               |
|                  |              |            | RB3#0                 | 22.31                                | 0.17                               |
|                  |              |            | RB3#2                 | 22.55                                | 0.18                               |
|                  |              |            | RB3#3                 | 22.61                                | 0.18                               |
|                  |              |            | RB6#0                 | 21.28                                | 0.13                               |
|                  |              | 16-QAM     | RB1#0                 | 21.4                                 | 0.14                               |
|                  |              |            | RB1#3                 | 21.4                                 | 0.14                               |
|                  |              |            | RB1#5                 | 21.4                                 | 0.14                               |
|                  |              |            | RB3#0                 | 21.65                                | 0.15                               |
|                  |              |            | RB3#2                 | 21.55                                | 0.14                               |
|                  |              |            | RB3#3                 | 21.46                                | 0.14                               |
|                  |              |            | RB6#0                 | 20.44                                | 0.11                               |
| 3 MHz            | LCH          | QPSK       | RB1#0                 | 22.56                                | 0.18                               |
|                  |              |            | RB1#7                 | 22.44                                | 0.18                               |
|                  |              |            | RB1#14                | 22.56                                | 0.18                               |
|                  |              |            | RB8#0                 | 21.62                                | 0.15                               |
|                  |              |            | RB8#4                 | 21.53                                | 0.14                               |
|                  |              |            | RB8#7                 | 21.56                                | 0.14                               |
|                  |              |            | RB15#0                | 21.62                                | 0.15                               |
|                  |              | 16-QAM     | RB1#0                 | 21                                   | 0.13                               |
|                  |              |            | RB1#7                 | 20.97                                | 0.13                               |
|                  |              |            | RB1#14                | 21                                   | 0.13                               |
|                  |              |            | RB8#0                 | 20.41                                | 0.11                               |
|                  |              |            | RB8#4                 | 20.42                                | 0.11                               |
|                  |              |            | RB8#7                 | 20.34                                | 0.11                               |
|                  |              |            | RB15#0                | 20.62                                | 0.12                               |

| Test BW          | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|------------------|--------------|------------|-----------------------|--------------------------------------|------------------------------------|
| <b>LTE Band2</b> |              |            |                       |                                      |                                    |
|                  | MCH          | QPSK       | RB1#0                 | 22.12                                | 0.16                               |
|                  |              |            | RB1#7                 | 22.12                                | 0.16                               |
|                  |              |            | RB1#14                | 22.22                                | 0.17                               |
|                  |              |            | RB8#0                 | 21.38                                | 0.14                               |
|                  |              |            | RB8#4                 | 21.38                                | 0.14                               |
|                  |              |            | RB8#7                 | 21.28                                | 0.13                               |
|                  |              |            | RB15#0                | 21.37                                | 0.14                               |
|                  |              | 16-QAM     | RB1#0                 | 21.16                                | 0.13                               |
|                  |              |            | RB1#7                 | 21.16                                | 0.13                               |
|                  |              |            | RB1#14                | 21.43                                | 0.14                               |
|                  |              |            | RB8#0                 | 20.29                                | 0.11                               |
|                  |              |            | RB8#4                 | 20.4                                 | 0.11                               |
|                  |              |            | RB8#7                 | 20.37                                | 0.11                               |
|                  |              |            | RB15#0                | 20.4                                 | 0.11                               |
|                  | HCH          | QPSK       | RB1#0                 | 22.34                                | 0.17                               |
|                  |              |            | RB1#7                 | 22.28                                | 0.17                               |
|                  |              |            | RB1#14                | 22.24                                | 0.17                               |
|                  |              |            | RB8#0                 | 21.31                                | 0.14                               |
|                  |              |            | RB8#4                 | 21.32                                | 0.14                               |
|                  |              |            | RB8#7                 | 21.34                                | 0.14                               |
|                  |              |            | RB15#0                | 21.36                                | 0.14                               |
|                  |              | 16-QAM     | RB1#0                 | 21.45                                | 0.14                               |
|                  |              |            | RB1#7                 | 21.39                                | 0.14                               |
|                  |              |            | RB1#14                | 21.37                                | 0.14                               |
|                  |              |            | RB8#0                 | 20.12                                | 0.10                               |
|                  |              |            | RB8#4                 | 20.22                                | 0.11                               |
|                  |              |            | RB8#7                 | 20.19                                | 0.10                               |
|                  |              |            | RB15#0                | 20.5                                 | 0.11                               |
| 5 MHz            | LCH          | QPSK       | RB1#0                 | 22.51                                | 0.18                               |
|                  |              |            | RB1#13                | 22.53                                | 0.18                               |
|                  |              |            | RB1#24                | 22.38                                | 0.17                               |
|                  |              |            | RB12#0                | 21.62                                | 0.15                               |
|                  |              |            | RB12#6                | 21.53                                | 0.14                               |
|                  |              |            | RB12#13               | 21.53                                | 0.14                               |
|                  |              |            | RB25#0                | 21.59                                | 0.14                               |
|                  |              |            | RB1#0                 | 21.2                                 | 0.13                               |
|                  |              | 16-QAM     | RB1#13                | 21.2                                 | 0.13                               |
|                  |              |            | RB1#24                | 20.99                                | 0.13                               |
|                  |              |            | RB12#0                | 20.46                                | 0.11                               |
|                  |              |            |                       |                                      |                                    |

| Test BW          | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|------------------|--------------|------------|-----------------------|--------------------------------------|------------------------------------|
| <b>LTE Band2</b> |              |            |                       |                                      |                                    |
|                  |              |            | RB12#6                | 20.45                                | 0.11                               |
|                  |              |            | RB12#13               | 20.35                                | 0.11                               |
|                  |              |            | RB25#0                | 20.85                                | 0.12                               |
|                  | MCH          | QPSK       | RB1#0                 | 22.36                                | 0.17                               |
|                  |              |            | RB1#13                | 22.31                                | 0.17                               |
|                  |              |            | RB1#24                | 22.36                                | 0.17                               |
|                  |              |            | RB12#0                | 21.37                                | 0.14                               |
|                  |              |            | RB12#6                | 21.44                                | 0.14                               |
|                  |              |            | RB12#13               | 21.36                                | 0.14                               |
|                  |              |            | RB25#0                | 21.37                                | 0.14                               |
|                  |              | 16-QAM     | RB1#0                 | 21.28                                | 0.13                               |
|                  |              |            | RB1#13                | 21.53                                | 0.14                               |
|                  |              |            | RB1#24                | 21.56                                | 0.14                               |
|                  |              |            | RB12#0                | 20.25                                | 0.11                               |
|                  |              |            | RB12#6                | 20.24                                | 0.11                               |
|                  |              |            | RB12#13               | 20.26                                | 0.11                               |
|                  |              |            | RB25#0                | 20.4                                 | 0.11                               |
|                  | HCH          | QPSK       | RB1#0                 | 22.48                                | 0.18                               |
|                  |              |            | RB1#13                | 22.51                                | 0.18                               |
|                  |              |            | RB1#24                | 22.11                                | 0.16                               |
|                  |              |            | RB12#0                | 21.43                                | 0.14                               |
|                  |              |            | RB12#6                | 21.39                                | 0.14                               |
|                  |              |            | RB12#13               | 21.36                                | 0.14                               |
|                  |              |            | RB25#0                | 21.37                                | 0.14                               |
|                  |              | 16-QAM     | RB1#0                 | 20.99                                | 0.13                               |
|                  |              |            | RB1#13                | 21.25                                | 0.13                               |
|                  |              |            | RB1#24                | 21.2                                 | 0.13                               |
|                  |              |            | RB12#0                | 20.52                                | 0.11                               |
|                  |              |            | RB12#6                | 20.39                                | 0.11                               |
|                  |              |            | RB12#13               | 20.38                                | 0.11                               |
|                  |              |            | RB25#0                | 20.55                                | 0.11                               |
| 10 MHz           | LCH          | QPSK       | RB1#0                 | 22.6                                 | 0.18                               |
|                  |              |            | RB1#25                | 22.36                                | 0.17                               |
|                  |              |            | RB1#49                | 22.27                                | 0.17                               |
|                  |              |            | RB25#0                | 21.71                                | 0.15                               |
|                  |              |            | RB25#13               | 21.58                                | 0.14                               |
|                  |              |            | RB25#25               | 21.5                                 | 0.14                               |
|                  |              |            | RB50#0                | 21.59                                | 0.14                               |
|                  |              | 16-QAM     | RB1#0                 | 21.67                                | 0.15                               |

| Test BW   | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|-----------|--------------|------------|-----------------------|--------------------------------------|------------------------------------|
| LTE Band2 |              |            |                       |                                      |                                    |
|           |              |            | RB1#25                | 21.98                                | 0.16                               |
|           |              |            | RB1#49                | 21.33                                | 0.14                               |
|           |              |            | RB25#0                | 20.69                                | 0.12                               |
|           |              |            | RB25#13               | 20.5                                 | 0.11                               |
|           |              |            | RB25#25               | 20.44                                | 0.11                               |
|           |              |            | RB50#0                | 20.58                                | 0.11                               |
|           | MCH          | QPSK       | RB1#0                 | 22.35                                | 0.17                               |
|           |              |            | RB1#25                | 22.29                                | 0.17                               |
|           |              |            | RB1#49                | 22.37                                | 0.17                               |
|           |              |            | RB25#0                | 21.41                                | 0.14                               |
|           |              |            | RB25#13               | 21.49                                | 0.14                               |
|           |              |            | RB25#25               | 21.43                                | 0.14                               |
|           |              | 16-QAM     | RB50#0                | 21.44                                | 0.14                               |
|           |              |            | RB1#0                 | 21.44                                | 0.14                               |
|           |              |            | RB1#25                | 21.3                                 | 0.13                               |
|           |              |            | RB1#49                | 21.48                                | 0.14                               |
|           |              |            | RB25#0                | 20.53                                | 0.11                               |
|           |              |            | RB25#13               | 20.5                                 | 0.11                               |
|           |              |            | RB25#25               | 20.54                                | 0.11                               |
|           |              |            | RB50#0                | 20.3                                 | 0.11                               |
|           | HCH          | QPSK       | RB1#0                 | 22.22                                | 0.17                               |
|           |              |            | RB1#25                | 22.48                                | 0.18                               |
|           |              |            | RB1#49                | 22.16                                | 0.16                               |
|           |              |            | RB25#0                | 21.43                                | 0.14                               |
|           |              |            | RB25#13               | 21.39                                | 0.14                               |
|           |              |            | RB25#25               | 21.41                                | 0.14                               |
|           |              | 16-QAM     | RB50#0                | 21.47                                | 0.14                               |
|           |              |            | RB1#0                 | 21.68                                | 0.15                               |
|           |              |            | RB1#25                | 21.47                                | 0.14                               |
|           |              |            | RB1#49                | 20.95                                | 0.12                               |
|           |              |            | RB25#0                | 20.57                                | 0.11                               |
|           |              |            | RB25#13               | 20.53                                | 0.11                               |
|           |              |            | RB25#25               | 20.46                                | 0.11                               |
|           |              |            | RB50#0                | 20.41                                | 0.11                               |
| 15 MHz    | LCH          | QPSK       | RB1#0                 | 22.6                                 | 0.18                               |
|           |              |            | RB1#38                | 22.23                                | 0.17                               |
|           |              |            | RB1#74                | 22.58                                | 0.18                               |
|           |              |            | RB36#0                | 21.4                                 | 0.14                               |
|           |              |            | RB36#19               | 21.41                                | 0.14                               |

| Test BW          | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|------------------|--------------|------------|-----------------------|--------------------------------------|------------------------------------|
| <b>LTE Band2</b> |              |            |                       |                                      |                                    |
|                  |              |            | RB36#39               | 21.51                                | 0.14                               |
|                  |              |            | RB75#0                | 21.52                                | 0.14                               |
|                  |              | 16-QAM     | RB1#0                 | 22.21                                | 0.17                               |
|                  |              |            | RB1#38                | 22.04                                | 0.16                               |
|                  |              |            | RB1#74                | 21.43                                | 0.14                               |
|                  |              |            | RB36#0                | 20.44                                | 0.11                               |
|                  |              |            | RB36#19               | 20.34                                | 0.11                               |
|                  |              |            | RB36#39               | 20.4                                 | 0.11                               |
|                  |              |            | RB75#0                | 20.48                                | 0.11                               |
|                  |              | QPSK       | RB1#0                 | 22.17                                | 0.16                               |
|                  |              |            | RB1#38                | 22.04                                | 0.16                               |
|                  |              |            | RB1#74                | 22.24                                | 0.17                               |
|                  |              |            | RB36#0                | 21.38                                | 0.14                               |
|                  |              |            | RB36#19               | 21.32                                | 0.14                               |
|                  |              |            | RB36#39               | 21.4                                 | 0.14                               |
|                  |              |            | RB75#0                | 21.37                                | 0.14                               |
|                  | MCH          | 16-QAM     | RB1#0                 | 21.34                                | 0.14                               |
|                  |              |            | RB1#38                | 21.11                                | 0.13                               |
|                  |              |            | RB1#74                | 21.12                                | 0.13                               |
|                  |              |            | RB36#0                | 20.4                                 | 0.11                               |
|                  |              |            | RB36#19               | 20.39                                | 0.11                               |
|                  |              |            | RB36#39               | 20.4                                 | 0.11                               |
|                  |              |            | RB75#0                | 20.25                                | 0.11                               |
|                  |              | QPSK       | RB1#0                 | 22.41                                | 0.17                               |
|                  |              |            | RB1#38                | 22.26                                | 0.17                               |
|                  |              |            | RB1#74                | 22.02                                | 0.16                               |
|                  |              |            | RB36#0                | 21.4                                 | 0.14                               |
|                  |              |            | RB36#19               | 21.43                                | 0.14                               |
|                  |              |            | RB36#39               | 21.45                                | 0.14                               |
|                  |              |            | RB75#0                | 21.41                                | 0.14                               |
|                  | HCH          | 16-QAM     | RB1#0                 | 21.57                                | 0.14                               |
|                  |              |            | RB1#38                | 21.87                                | 0.15                               |
|                  |              |            | RB1#74                | 22.44                                | 0.18                               |
|                  |              |            | RB36#0                | 20.34                                | 0.11                               |
|                  |              |            | RB36#19               | 20.36                                | 0.11                               |
|                  |              |            | RB36#39               | 20.43                                | 0.11                               |
|                  |              |            | RB75#0                | 20.47                                | 0.11                               |
|                  |              | QPSK       | RB1#0                 | 22.58                                | 0.18                               |
|                  |              |            | RB1#50                | 22.37                                | 0.17                               |

| Test BW          | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|------------------|--------------|------------|-----------------------|--------------------------------------|------------------------------------|
| <b>LTE Band2</b> |              |            |                       |                                      |                                    |
|                  |              |            | RB1#99                | 22.18                                | 0.17                               |
|                  |              |            | RB50#0                | 21.42                                | 0.14                               |
|                  |              |            | RB50#25               | 21.47                                | 0.14                               |
|                  |              |            | RB50#50               | 21.49                                | 0.14                               |
|                  |              |            | RB100#0               | 21.47                                | 0.14                               |
|                  |              | 16-QAM     | RB1#0                 | 21.07                                | 0.13                               |
|                  |              |            | RB1#50                | 21.7                                 | 0.15                               |
|                  |              |            | RB1#99                | 21.12                                | 0.13                               |
|                  |              |            | RB50#0                | 20.49                                | 0.11                               |
|                  |              |            | RB50#25               | 20.53                                | 0.11                               |
|                  |              |            | RB50#50               | 20.5                                 | 0.11                               |
|                  |              |            | RB100#0               | 20.54                                | 0.11                               |
|                  | MCH          | QPSK       | RB1#0                 | 22.77                                | 0.19                               |
|                  |              |            | RB1#50                | 22.7                                 | 0.19                               |
|                  |              |            | RB1#99                | 22.61                                | 0.18                               |
|                  |              |            | RB50#0                | 21.49                                | 0.14                               |
|                  |              |            | RB50#25               | 21.4                                 | 0.14                               |
|                  |              |            | RB50#50               | 21.44                                | 0.14                               |
|                  |              |            | RB100#0               | 21.44                                | 0.14                               |
|                  |              | 16-QAM     | RB1#0                 | 21.26                                | 0.13                               |
|                  |              |            | RB1#50                | 21.39                                | 0.14                               |
|                  |              |            | RB1#99                | 21.37                                | 0.14                               |
|                  |              |            | RB50#0                | 20.27                                | 0.11                               |
|                  |              |            | RB50#25               | 20.4                                 | 0.11                               |
|                  |              |            | RB50#50               | 20.46                                | 0.11                               |
|                  |              |            | RB100#0               | 20.45                                | 0.11                               |
|                  | HCH          | QPSK       | RB1#0                 | 22.37                                | 0.17                               |
|                  |              |            | RB1#50                | 22.47                                | 0.18                               |
|                  |              |            | RB1#99                | 22.12                                | 0.16                               |
|                  |              |            | RB50#0                | 21.35                                | 0.14                               |
|                  |              |            | RB50#25               | 21.35                                | 0.14                               |
|                  |              |            | RB50#50               | 21.46                                | 0.14                               |
|                  |              |            | RB100#0               | 21.4                                 | 0.14                               |
|                  |              | 16-QAM     | RB1#0                 | 21.28                                | 0.13                               |
|                  |              |            | RB1#50                | 21.3                                 | 0.13                               |
|                  |              |            | RB1#99                | 20.97                                | 0.13                               |
|                  |              |            | RB50#0                | 20.36                                | 0.11                               |
|                  |              |            | RB50#25               | 20.36                                | 0.11                               |
|                  |              |            | RB50#50               | 20.42                                | 0.11                               |

| Test BW   | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|-----------|--------------|------------|-----------------------|--------------------------------------|------------------------------------|
| LTE Band2 |              |            |                       |                                      |                                    |
|           |              |            | RB100#0               | 20.36                                | 0.11                               |



| Test BW          | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|------------------|--------------|------------|-----------------------|--------------------------------------|------------------------------------|
| <b>LTE Band4</b> |              |            |                       |                                      |                                    |
| 1.4 MHz          | LCH          | QPSK       | RB1#0                 | 23.39                                | 0.22                               |
|                  |              |            | RB1#3                 | 23.3                                 | 0.21                               |
|                  |              |            | RB1#5                 | 23.14                                | 0.21                               |
|                  |              |            | RB3#0                 | 23.21                                | 0.21                               |
|                  |              |            | RB3#2                 | 23.24                                | 0.21                               |
|                  |              |            | RB3#3                 | 23.3                                 | 0.21                               |
|                  |              |            | RB6#0                 | 22.17                                | 0.16                               |
|                  |              | 16-QAM     | RB1#0                 | 22.4                                 | 0.17                               |
|                  |              |            | RB1#3                 | 22.46                                | 0.18                               |
|                  |              |            | RB1#5                 | 22.32                                | 0.17                               |
|                  |              |            | RB3#0                 | 22.19                                | 0.17                               |
|                  |              |            | RB3#2                 | 22.23                                | 0.17                               |
|                  |              |            | RB3#3                 | 22.19                                | 0.17                               |
|                  |              |            | RB6#0                 | 21.15                                | 0.13                               |
|                  | MCH          | QPSK       | RB1#0                 | 23.54                                | 0.23                               |
|                  |              |            | RB1#3                 | 23.69                                | 0.23                               |
|                  |              |            | RB1#5                 | 23.45                                | 0.22                               |
|                  |              |            | RB3#0                 | 23.46                                | 0.22                               |
|                  |              |            | RB3#2                 | 23.62                                | 0.23                               |
|                  |              |            | RB3#3                 | 23.57                                | 0.23                               |
|                  |              |            | RB6#0                 | 22.54                                | 0.18                               |
|                  |              | 16-QAM     | RB1#0                 | 22.51                                | 0.18                               |
|                  |              |            | RB1#3                 | 22.57                                | 0.18                               |
|                  |              |            | RB1#5                 | 22.1                                 | 0.16                               |
|                  |              |            | RB3#0                 | 22.28                                | 0.17                               |
|                  |              |            | RB3#2                 | 22.34                                | 0.17                               |
|                  |              |            | RB3#3                 | 22.43                                | 0.17                               |
|                  |              |            | RB6#0                 | 21.23                                | 0.13                               |
|                  | HCH          | QPSK       | RB1#0                 | 23.23                                | 0.21                               |
|                  |              |            | RB1#3                 | 23.49                                | 0.22                               |
|                  |              |            | RB1#5                 | 23.5                                 | 0.22                               |
|                  |              |            | RB3#0                 | 23.45                                | 0.22                               |
|                  |              |            | RB3#2                 | 23.47                                | 0.22                               |
|                  |              |            | RB3#3                 | 23.42                                | 0.22                               |
|                  |              |            | RB6#0                 | 22.39                                | 0.17                               |
|                  |              | 16-QAM     | RB1#0                 | 22.3                                 | 0.17                               |
|                  |              |            | RB1#3                 | 22.4                                 | 0.17                               |
|                  |              |            | RB1#5                 | 22.3                                 | 0.17                               |
|                  |              |            | RB3#0                 | 22.41                                | 0.17                               |

| Test BW          | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|------------------|--------------|------------|-----------------------|--------------------------------------|------------------------------------|
| <b>LTE Band4</b> |              |            |                       |                                      |                                    |
| 3 MHz            |              |            | RB3#2                 | 22.63                                | 0.18                               |
|                  |              |            | RB3#3                 | 22.69                                | 0.19                               |
|                  |              |            | RB6#0                 | 21.72                                | 0.15                               |
|                  | LCH          | QPSK       | RB1#0                 | 23.14                                | 0.21                               |
|                  |              |            | RB1#7                 | 23.3                                 | 0.21                               |
|                  |              |            | RB1#14                | 23.07                                | 0.20                               |
|                  |              |            | RB8#0                 | 22.26                                | 0.17                               |
|                  |              |            | RB8#4                 | 22.23                                | 0.17                               |
|                  |              |            | RB8#7                 | 22.11                                | 0.16                               |
|                  |              |            | RB15#0                | 22.14                                | 0.16                               |
|                  |              | 16-QAM     | RB1#0                 | 22.26                                | 0.17                               |
|                  |              |            | RB1#7                 | 22.21                                | 0.17                               |
|                  |              |            | RB1#14                | 22.12                                | 0.16                               |
|                  |              |            | RB8#0                 | 21.51                                | 0.14                               |
|                  |              |            | RB8#4                 | 21.56                                | 0.14                               |
|                  |              |            | RB8#7                 | 21.55                                | 0.14                               |
|                  |              |            | RB15#0                | 21.28                                | 0.13                               |
|                  | MCH          | QPSK       | RB1#0                 | 23.56                                | 0.23                               |
|                  |              |            | RB1#7                 | 23.55                                | 0.23                               |
|                  |              |            | RB1#14                | 23.62                                | 0.23                               |
|                  |              |            | RB8#0                 | 22.62                                | 0.18                               |
|                  |              |            | RB8#4                 | 22.52                                | 0.18                               |
|                  |              |            | RB8#7                 | 22.58                                | 0.18                               |
|                  |              |            | RB15#0                | 22.53                                | 0.18                               |
|                  |              | 16-QAM     | RB1#0                 | 23.16                                | 0.21                               |
|                  |              |            | RB1#7                 | 23.13                                | 0.21                               |
|                  |              |            | RB1#14                | 23.13                                | 0.21                               |
|                  |              |            | RB8#0                 | 21.55                                | 0.14                               |
|                  |              |            | RB8#4                 | 21.57                                | 0.14                               |
|                  |              |            | RB8#7                 | 21.53                                | 0.14                               |
|                  |              |            | RB15#0                | 21.64                                | 0.15                               |
|                  | HCH          | QPSK       | RB1#0                 | 23.14                                | 0.21                               |
|                  |              |            | RB1#7                 | 23.2                                 | 0.21                               |
|                  |              |            | RB1#14                | 23.2                                 | 0.21                               |
|                  |              |            | RB8#0                 | 22.33                                | 0.17                               |
|                  |              |            | RB8#4                 | 22.33                                | 0.17                               |
|                  |              |            | RB8#7                 | 22.31                                | 0.17                               |
|                  |              |            | RB15#0                | 22.34                                | 0.17                               |
|                  |              | 16-QAM     | RB1#0                 | 22.11                                | 0.16                               |

| Test BW          | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|------------------|--------------|------------|-----------------------|--------------------------------------|------------------------------------|
| <b>LTE Band4</b> |              |            |                       |                                      |                                    |
| 5 MHz            |              |            | RB1#7                 | 22.14                                | 0.16                               |
|                  |              |            | RB1#14                | 22.2                                 | 0.17                               |
|                  |              |            | RB8#0                 | 21.26                                | 0.13                               |
|                  |              |            | RB8#4                 | 21.19                                | 0.13                               |
|                  |              |            | RB8#7                 | 21.23                                | 0.13                               |
|                  |              |            | RB15#0                | 20.98                                | 0.13                               |
|                  | LCH          | QPSK       | RB1#0                 | 23.02                                | 0.20                               |
|                  |              |            | RB1#13                | 23.11                                | 0.20                               |
|                  |              |            | RB1#24                | 23.02                                | 0.20                               |
|                  |              |            | RB12#0                | 22.03                                | 0.16                               |
|                  |              |            | RB12#6                | 22.21                                | 0.17                               |
|                  |              |            | RB12#13               | 22.16                                | 0.16                               |
|                  |              |            | RB25#0                | 22.08                                | 0.16                               |
|                  |              | 16-QAM     | RB1#0                 | 21.65                                | 0.15                               |
|                  |              |            | RB1#13                | 21.75                                | 0.15                               |
|                  |              |            | RB1#24                | 21.56                                | 0.14                               |
|                  |              |            | RB12#0                | 20.94                                | 0.12                               |
|                  |              |            | RB12#6                | 21.03                                | 0.13                               |
|                  |              |            | RB12#13               | 20.97                                | 0.13                               |
|                  |              |            | RB25#0                | 21.14                                | 0.13                               |
|                  | MCH          | QPSK       | RB1#0                 | 23.42                                | 0.22                               |
|                  |              |            | RB1#13                | 23.44                                | 0.22                               |
|                  |              |            | RB1#24                | 23.16                                | 0.21                               |
|                  |              |            | RB12#0                | 22.52                                | 0.18                               |
|                  |              |            | RB12#6                | 22.56                                | 0.18                               |
|                  |              |            | RB12#13               | 22.56                                | 0.18                               |
|                  |              |            | RB25#0                | 22.54                                | 0.18                               |
|                  |              | 16-QAM     | RB1#0                 | 22.5                                 | 0.18                               |
|                  |              |            | RB1#13                | 22.48                                | 0.18                               |
|                  |              |            | RB1#24                | 21.89                                | 0.15                               |
|                  |              |            | RB12#0                | 21.33                                | 0.14                               |
|                  |              |            | RB12#6                | 21.39                                | 0.14                               |
|                  |              |            | RB12#13               | 21.48                                | 0.14                               |
|                  |              |            | RB25#0                | 21.38                                | 0.14                               |
|                  | HCH          | QPSK       | RB1#0                 | 23.25                                | 0.21                               |
|                  |              |            | RB1#13                | 23.55                                | 0.23                               |
|                  |              |            | RB1#24                | 23.45                                | 0.22                               |
|                  |              |            | RB12#0                | 22.29                                | 0.17                               |
|                  |              |            | RB12#6                | 22.49                                | 0.18                               |

| Test BW          | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|------------------|--------------|------------|-----------------------|--------------------------------------|------------------------------------|
| <b>LTE Band4</b> |              |            |                       |                                      |                                    |
|                  |              |            | RB12#13               | 22.39                                | 0.17                               |
|                  |              |            | RB25#0                | 22.4                                 | 0.17                               |
|                  |              | 16-QAM     | RB1#0                 | 21.93                                | 0.16                               |
|                  |              |            | RB1#13                | 22.07                                | 0.16                               |
|                  |              |            | RB1#24                | 22.02                                | 0.16                               |
|                  |              |            | RB12#0                | 21.28                                | 0.13                               |
|                  |              |            | RB12#6                | 21.41                                | 0.14                               |
|                  |              |            | RB12#13               | 21.21                                | 0.13                               |
|                  |              |            | RB25#0                | 21.19                                | 0.13                               |
| 10 MHz           | LCH          | QPSK       | RB1#0                 | 23.13                                | 0.21                               |
|                  |              |            | RB1#25                | 23.29                                | 0.21                               |
|                  |              |            | RB1#49                | 23.16                                | 0.21                               |
|                  |              |            | RB25#0                | 22.24                                | 0.17                               |
|                  |              |            | RB25#13               | 22.2                                 | 0.17                               |
|                  |              |            | RB25#25               | 22.18                                | 0.17                               |
|                  |              |            | RB50#0                | 22.21                                | 0.17                               |
|                  |              | 16-QAM     | RB1#0                 | 22.02                                | 0.16                               |
|                  |              |            | RB1#25                | 22.48                                | 0.18                               |
|                  |              |            | RB1#49                | 22.75                                | 0.19                               |
|                  |              |            | RB25#0                | 21.17                                | 0.13                               |
|                  |              |            | RB25#13               | 21.17                                | 0.13                               |
|                  |              |            | RB25#25               | 21.23                                | 0.13                               |
|                  |              |            | RB50#0                | 21.14                                | 0.13                               |
|                  | MCH          | QPSK       | RB1#0                 | 23.36                                | 0.22                               |
|                  |              |            | RB1#25                | 23.62                                | 0.23                               |
|                  |              |            | RB1#49                | 23.35                                | 0.22                               |
|                  |              |            | RB25#0                | 22.48                                | 0.18                               |
|                  |              |            | RB25#13               | 22.47                                | 0.18                               |
|                  |              |            | RB25#25               | 22.55                                | 0.18                               |
|                  |              |            | RB50#0                | 22.55                                | 0.18                               |
|                  |              | 16-QAM     | RB1#0                 | 22.29                                | 0.17                               |
|                  |              |            | RB1#25                | 22.08                                | 0.16                               |
|                  |              |            | RB1#49                | 22.17                                | 0.16                               |
|                  |              |            | RB25#0                | 21.45                                | 0.14                               |
|                  |              |            | RB25#13               | 21.5                                 | 0.14                               |
|                  |              |            | RB25#25               | 21.54                                | 0.14                               |
|                  |              |            | RB50#0                | 21.56                                | 0.14                               |
|                  | HCH          | QPSK       | RB1#0                 | 23.42                                | 0.22                               |
|                  |              |            | RB1#25                | 23.51                                | 0.22                               |

| Test BW          | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|------------------|--------------|------------|-----------------------|--------------------------------------|------------------------------------|
| <b>LTE Band4</b> |              |            |                       |                                      |                                    |
|                  |              |            | RB1#49                | 23.36                                | 0.22                               |
|                  |              |            | RB25#0                | 22.3                                 | 0.17                               |
|                  |              |            | RB25#13               | 22.33                                | 0.17                               |
|                  |              |            | RB25#25               | 22.44                                | 0.18                               |
|                  |              |            | RB50#0                | 22.34                                | 0.17                               |
|                  |              | 16-QAM     | RB1#0                 | 22.45                                | 0.18                               |
|                  |              |            | RB1#25                | 22.19                                | 0.17                               |
|                  |              |            | RB1#49                | 22.56                                | 0.18                               |
|                  |              |            | RB25#0                | 21.53                                | 0.14                               |
|                  |              |            | RB25#13               | 21.52                                | 0.14                               |
|                  |              |            | RB25#25               | 21.58                                | 0.14                               |
|                  |              |            | RB50#0                | 21.21                                | 0.13                               |
| 15 MHz           | LCH          | QPSK       | RB1#0                 | 23.02                                | 0.20                               |
|                  |              |            | RB1#38                | 23.42                                | 0.22                               |
|                  |              |            | RB1#74                | 23.57                                | 0.23                               |
|                  |              |            | RB36#0                | 22.27                                | 0.17                               |
|                  |              |            | RB36#19               | 22.29                                | 0.17                               |
|                  |              |            | RB36#39               | 22.33                                | 0.17                               |
|                  |              |            | RB75#0                | 22.14                                | 0.16                               |
|                  |              | 16-QAM     | RB1#0                 | 22.1                                 | 0.16                               |
|                  |              |            | RB1#38                | 22.85                                | 0.19                               |
|                  |              |            | RB1#74                | 22.94                                | 0.20                               |
|                  |              |            | RB36#0                | 21.11                                | 0.13                               |
|                  |              |            | RB36#19               | 21.15                                | 0.13                               |
|                  |              |            | RB36#39               | 21.21                                | 0.13                               |
|                  |              |            | RB75#0                | 21.05                                | 0.13                               |
|                  | MCH          | QPSK       | RB1#0                 | 23.25                                | 0.21                               |
|                  |              |            | RB1#38                | 23.47                                | 0.22                               |
|                  |              |            | RB1#74                | 23.28                                | 0.21                               |
|                  |              |            | RB36#0                | 22.46                                | 0.18                               |
|                  |              |            | RB36#19               | 22.42                                | 0.17                               |
|                  |              |            | RB36#39               | 22.35                                | 0.17                               |
|                  |              |            | RB75#0                | 22.44                                | 0.18                               |
|                  |              | 16-QAM     | RB1#0                 | 22.3                                 | 0.17                               |
|                  |              |            | RB1#38                | 22.28                                | 0.17                               |
|                  |              |            | RB1#74                | 21.62                                | 0.15                               |
|                  |              | 16-QAM     | RB36#0                | 21.41                                | 0.14                               |
|                  |              |            | RB36#19               | 21.44                                | 0.14                               |
|                  |              |            | RB36#39               | 21.31                                | 0.14                               |

| Test BW          | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|------------------|--------------|------------|-----------------------|--------------------------------------|------------------------------------|
| <b>LTE Band4</b> |              |            |                       |                                      |                                    |
|                  | HCH          | QPSK       | RB75#0                | 21.27                                | 0.13                               |
|                  |              |            | RB1#0                 | 23.42                                | 0.22                               |
|                  |              |            | RB1#38                | 23.05                                | 0.20                               |
|                  |              |            | RB1#74                | 23.25                                | 0.21                               |
|                  |              |            | RB36#0                | 22.32                                | 0.17                               |
|                  |              |            | RB36#19               | 22.2                                 | 0.17                               |
|                  |              |            | RB36#39               | 22.25                                | 0.17                               |
|                  |              |            | RB75#0                | 22.33                                | 0.17                               |
|                  |              | 16-QAM     | RB1#0                 | 23.07                                | 0.20                               |
|                  |              |            | RB1#38                | 23.02                                | 0.20                               |
|                  |              |            | RB1#74                | 22.88                                | 0.19                               |
|                  |              |            | RB36#0                | 21.3                                 | 0.13                               |
|                  |              |            | RB36#19               | 21.23                                | 0.13                               |
|                  |              |            | RB36#39               | 21.09                                | 0.13                               |
|                  |              |            | RB75#0                | 21.26                                | 0.13                               |
| 20 MHz           | LCH          | QPSK       | RB1#0                 | 22.73                                | 0.19                               |
|                  |              |            | RB1#50                | 23.34                                | 0.22                               |
|                  |              |            | RB1#99                | 23.11                                | 0.20                               |
|                  |              |            | RB50#0                | 22.19                                | 0.17                               |
|                  |              |            | RB50#25               | 22.29                                | 0.17                               |
|                  |              |            | RB50#50               | 22.29                                | 0.17                               |
|                  |              |            | RB100#0               | 22.26                                | 0.17                               |
|                  |              | 16-QAM     | RB1#0                 | 22.32                                | 0.17                               |
|                  |              |            | RB1#50                | 22.15                                | 0.16                               |
|                  |              |            | RB1#99                | 21.77                                | 0.15                               |
|                  |              |            | RB50#0                | 21.04                                | 0.13                               |
|                  |              |            | RB50#25               | 21.31                                | 0.14                               |
|                  |              |            | RB50#50               | 21.26                                | 0.13                               |
|                  |              |            | RB100#0               | 21.2                                 | 0.13                               |
|                  | MCH          | QPSK       | RB1#0                 | 23.58                                | 0.23                               |
|                  |              |            | RB1#50                | 23.55                                | 0.23                               |
|                  |              |            | RB1#99                | 23.37                                | 0.22                               |
|                  |              |            | RB50#0                | 22.49                                | 0.18                               |
|                  |              |            | RB50#25               | 22.5                                 | 0.18                               |
|                  |              |            | RB50#50               | 22.35                                | 0.17                               |
|                  |              |            | RB100#0               | 22.33                                | 0.17                               |
|                  |              | 16-QAM     | RB1#0                 | 22.17                                | 0.16                               |
|                  |              |            | RB1#50                | 22.19                                | 0.17                               |
|                  |              |            | RB1#99                | 21.99                                | 0.16                               |

| Test BW          | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|------------------|--------------|------------|-----------------------|--------------------------------------|------------------------------------|
| <b>LTE Band4</b> |              |            |                       |                                      |                                    |
|                  |              |            | RB50#0                | 21.31                                | 0.14                               |
|                  |              |            | RB50#25               | 21.37                                | 0.14                               |
|                  |              |            | RB50#50               | 21.06                                | 0.13                               |
|                  |              |            | RB100#0               | 21.25                                | 0.13                               |
|                  | HCH          | QPSK       | RB1#0                 | 23.4                                 | 0.22                               |
|                  |              |            | RB1#50                | 23.35                                | 0.22                               |
|                  |              |            | RB1#99                | 23.45                                | 0.22                               |
|                  |              |            | RB50#0                | 22.49                                | 0.18                               |
|                  |              |            | RB50#25               | 22.34                                | 0.17                               |
|                  |              |            | RB50#50               | 22.24                                | 0.17                               |
|                  |              |            | RB100#0               | 22.49                                | 0.18                               |
|                  |              | 16-QAM     | RB1#0                 | 22.15                                | 0.16                               |
|                  |              |            | RB1#50                | 22.16                                | 0.16                               |
|                  |              |            | RB1#99                | 21.86                                | 0.15                               |
|                  |              |            | RB50#0                | 21.48                                | 0.14                               |
|                  |              |            | RB50#25               | 21.3                                 | 0.13                               |
|                  |              |            | RB50#50               | 21.09                                | 0.13                               |
|                  |              |            | RB100#0               | 21.35                                | 0.14                               |

| Test BW   | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|-----------|--------------|------------|-----------------------|--------------------------------------|------------------------------------|
| LTE Band5 |              |            |                       |                                      |                                    |
| 1.4 MHz   | LCH          | QPSK       | RB1#0                 | 22.81                                | 0.19                               |
|           |              |            | RB1#3                 | 22.79                                | 0.19                               |
|           |              |            | RB1#5                 | 23.14                                | 0.21                               |
|           |              |            | RB3#0                 | 22.95                                | 0.20                               |
|           |              |            | RB3#2                 | 22.98                                | 0.20                               |
|           |              |            | RB3#3                 | 22.79                                | 0.19                               |
|           |              |            | RB6#0                 | 22.08                                | 0.16                               |
|           |              | 16-QAM     | RB1#0                 | 21.84                                | 0.15                               |
|           |              |            | RB1#3                 | 22.14                                | 0.16                               |
|           |              |            | RB1#5                 | 22.15                                | 0.16                               |
|           |              |            | RB3#0                 | 22.2                                 | 0.17                               |
|           |              |            | RB3#2                 | 22.24                                | 0.17                               |
|           |              |            | RB3#3                 | 22.26                                | 0.17                               |
|           |              |            | RB6#0                 | 21.35                                | 0.14                               |
|           | MCH          | QPSK       | RB1#0                 | 22.7                                 | 0.19                               |
|           |              |            | RB1#3                 | 22.88                                | 0.19                               |
|           |              |            | RB1#5                 | 22.76                                | 0.19                               |
|           |              |            | RB3#0                 | 22.82                                | 0.19                               |
|           |              |            | RB3#2                 | 23.01                                | 0.20                               |
|           |              |            | RB3#3                 | 22.98                                | 0.20                               |
|           |              |            | RB6#0                 | 21.84                                | 0.15                               |
|           |              | 16-QAM     | RB1#0                 | 22.61                                | 0.18                               |
|           |              |            | RB1#3                 | 22.8                                 | 0.19                               |
|           |              |            | RB1#5                 | 22.68                                | 0.19                               |
|           |              |            | RB3#0                 | 22.13                                | 0.16                               |
|           |              |            | RB3#2                 | 22.02                                | 0.16                               |
|           |              |            | RB3#3                 | 21.87                                | 0.15                               |
|           |              |            | RB6#0                 | 20.63                                | 0.12                               |
|           | HCH          | QPSK       | RB1#0                 | 22.76                                | 0.19                               |
|           |              |            | RB1#3                 | 22.88                                | 0.19                               |
|           |              |            | RB1#5                 | 22.8                                 | 0.19                               |
|           |              |            | RB3#0                 | 22.83                                | 0.19                               |
|           |              |            | RB3#2                 | 22.86                                | 0.19                               |
|           |              |            | RB3#3                 | 22.76                                | 0.19                               |
|           |              |            | RB6#0                 | 21.76                                | 0.15                               |
|           |              | 16-QAM     | RB1#0                 | 21.63                                | 0.15                               |
|           |              |            | RB1#3                 | 21.85                                | 0.15                               |
|           |              |            | RB1#5                 | 21.91                                | 0.16                               |



| Test BW          | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|------------------|--------------|------------|-----------------------|--------------------------------------|------------------------------------|
| <b>LTE Band5</b> |              |            |                       |                                      |                                    |
| 3 MHz            |              |            | RB3#0                 | 22.2                                 | 0.17                               |
|                  |              |            | RB3#2                 | 22.1                                 | 0.16                               |
|                  |              |            | RB3#3                 | 21.98                                | 0.16                               |
|                  |              |            | RB6#0                 | 20.95                                | 0.12                               |
|                  | LCH          | QPSK       | RB1#0                 | 22.94                                | 0.20                               |
|                  |              |            | RB1#7                 | 23.01                                | 0.20                               |
|                  |              |            | RB1#14                | 22.97                                | 0.20                               |
|                  |              |            | RB8#0                 | 21.99                                | 0.16                               |
|                  |              |            | RB8#4                 | 21.91                                | 0.16                               |
|                  |              |            | RB8#7                 | 21.91                                | 0.16                               |
|                  |              |            | RB15#0                | 22.04                                | 0.16                               |
|                  |              | 16-QAM     | RB1#0                 | 21.7                                 | 0.15                               |
|                  |              |            | RB1#7                 | 21.83                                | 0.15                               |
|                  |              |            | RB1#14                | 21.81                                | 0.15                               |
|                  |              |            | RB8#0                 | 20.83                                | 0.12                               |
|                  |              |            | RB8#4                 | 21.06                                | 0.13                               |
|                  |              |            | RB8#7                 | 21.06                                | 0.13                               |
|                  |              |            | RB15#0                | 20.92                                | 0.12                               |
|                  | MCH          | QPSK       | RB1#0                 | 22.87                                | 0.19                               |
|                  |              |            | RB1#7                 | 22.82                                | 0.19                               |
|                  |              |            | RB1#14                | 22.83                                | 0.19                               |
|                  |              |            | RB8#0                 | 21.95                                | 0.16                               |
|                  |              |            | RB8#4                 | 21.97                                | 0.16                               |
|                  |              |            | RB8#7                 | 22.01                                | 0.16                               |
|                  |              |            | RB15#0                | 21.88                                | 0.15                               |
|                  |              | 16-QAM     | RB1#0                 | 21.72                                | 0.15                               |
|                  |              |            | RB1#7                 | 21.79                                | 0.15                               |
|                  |              |            | RB1#14                | 21.73                                | 0.15                               |
|                  |              |            | RB8#0                 | 20.95                                | 0.12                               |
|                  |              |            | RB8#4                 | 21.06                                | 0.13                               |
|                  |              |            | RB8#7                 | 21.01                                | 0.13                               |
|                  |              |            | RB15#0                | 20.82                                | 0.12                               |
|                  | HCH          | QPSK       | RB1#0                 | 22.89                                | 0.19                               |
|                  |              |            | RB1#7                 | 22.72                                | 0.19                               |
|                  |              |            | RB1#14                | 22.79                                | 0.19                               |
|                  |              |            | RB8#0                 | 22.01                                | 0.16                               |
|                  |              |            | RB8#4                 | 21.8                                 | 0.15                               |
|                  |              |            | RB8#7                 | 21.89                                | 0.15                               |
|                  |              |            | RB15#0                | 21.93                                | 0.16                               |

| Test BW          | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|------------------|--------------|------------|-----------------------|--------------------------------------|------------------------------------|
| <b>LTE Band5</b> |              |            |                       |                                      |                                    |
|                  |              | 16-QAM     | RB1#0                 | 21.91                                | 0.16                               |
|                  |              |            | RB1#7                 | 21.71                                | 0.15                               |
|                  |              |            | RB1#14                | 21.78                                | 0.15                               |
|                  |              |            | RB8#0                 | 20.68                                | 0.12                               |
|                  |              |            | RB8#4                 | 20.72                                | 0.12                               |
|                  |              |            | RB8#7                 | 20.52                                | 0.11                               |
|                  |              |            | RB15#0                | 20.71                                | 0.12                               |
| 5 MHz            | LCH          | QPSK       | RB1#0                 | 22.75                                | 0.19                               |
|                  |              |            | RB1#13                | 22.94                                | 0.20                               |
|                  |              |            | RB1#24                | 22.9                                 | 0.19                               |
|                  |              |            | RB12#0                | 22                                   | 0.16                               |
|                  |              |            | RB12#6                | 22.03                                | 0.16                               |
|                  |              |            | RB12#13               | 21.98                                | 0.16                               |
|                  |              |            | RB25#0                | 21.97                                | 0.16                               |
|                  |              | 16-QAM     | RB1#0                 | 21.5                                 | 0.14                               |
|                  |              |            | RB1#13                | 21.57                                | 0.14                               |
|                  |              |            | RB1#24                | 21.46                                | 0.14                               |
|                  |              |            | RB12#0                | 20.78                                | 0.12                               |
|                  |              |            | RB12#6                | 20.79                                | 0.12                               |
|                  |              |            | RB12#13               | 20.78                                | 0.12                               |
|                  |              |            | RB25#0                | 21.04                                | 0.13                               |
|                  | MCH          | QPSK       | RB1#0                 | 22.55                                | 0.18                               |
|                  |              |            | RB1#13                | 22.85                                | 0.19                               |
|                  |              |            | RB1#24                | 22.6                                 | 0.18                               |
|                  |              |            | RB12#0                | 21.83                                | 0.15                               |
|                  |              |            | RB12#6                | 22                                   | 0.16                               |
|                  |              |            | RB12#13               | 21.8                                 | 0.15                               |
|                  |              |            | RB25#0                | 21.83                                | 0.15                               |
|                  |              | 16-QAM     | RB1#0                 | 21.73                                | 0.15                               |
|                  |              |            | RB1#13                | 21.94                                | 0.16                               |
|                  |              |            | RB1#24                | 21.9                                 | 0.15                               |
|                  |              |            | RB12#0                | 20.69                                | 0.12                               |
|                  |              |            | RB12#6                | 20.79                                | 0.12                               |
|                  |              |            | RB12#13               | 20.75                                | 0.12                               |
|                  |              |            | RB25#0                | 21.11                                | 0.13                               |
|                  | HCH          | QPSK       | RB1#0                 | 22.69                                | 0.19                               |
|                  |              |            | RB1#13                | 23.05                                | 0.20                               |
|                  |              |            | RB1#24                | 22.8                                 | 0.19                               |
|                  |              |            | RB12#0                | 22.07                                | 0.16                               |

| Test BW          | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|------------------|--------------|------------|-----------------------|--------------------------------------|------------------------------------|
| <b>LTE Band5</b> |              |            |                       |                                      |                                    |
|                  |              |            | RB12#6                | 22.08                                | 0.16                               |
|                  |              |            | RB12#13               | 21.84                                | 0.15                               |
|                  |              |            | RB25#0                | 22.01                                | 0.16                               |
|                  |              | 16-QAM     | RB1#0                 | 21.86                                | 0.15                               |
|                  |              |            | RB1#13                | 21.87                                | 0.15                               |
|                  |              |            | RB1#24                | 21.51                                | 0.14                               |
|                  |              |            | RB12#0                | 20.82                                | 0.12                               |
|                  |              |            | RB12#6                | 20.86                                | 0.12                               |
|                  |              |            | RB12#13               | 20.89                                | 0.12                               |
|                  |              |            | RB25#0                | 21.03                                | 0.13                               |
| 10 MHz           | LCH          | QPSK       | RB1#0                 | 22.86                                | 0.19                               |
|                  |              |            | RB1#25                | 22.93                                | 0.20                               |
|                  |              |            | RB1#49                | 22.68                                | 0.19                               |
|                  |              |            | RB25#0                | 21.96                                | 0.16                               |
|                  |              |            | RB25#13               | 21.97                                | 0.16                               |
|                  |              |            | RB25#25               | 21.93                                | 0.16                               |
|                  |              |            | RB50#0                | 22.04                                | 0.16                               |
|                  |              | 16-QAM     | RB1#0                 | 21.75                                | 0.15                               |
|                  |              |            | RB1#25                | 22.19                                | 0.17                               |
|                  |              |            | RB1#49                | 21.66                                | 0.15                               |
|                  |              |            | RB25#0                | 20.99                                | 0.13                               |
|                  |              |            | RB25#13               | 20.84                                | 0.12                               |
|                  |              |            | RB25#25               | 20.85                                | 0.12                               |
|                  |              |            | RB50#0                | 20.87                                | 0.12                               |
|                  | MCH          | QPSK       | RB1#0                 | 23.05                                | 0.20                               |
|                  |              |            | RB1#25                | 22.96                                | 0.20                               |
|                  |              |            | RB1#49                | 23.09                                | 0.20                               |
|                  |              |            | RB25#0                | 21.97                                | 0.16                               |
|                  |              |            | RB25#13               | 21.89                                | 0.15                               |
|                  |              |            | RB25#25               | 21.92                                | 0.16                               |
|                  |              |            | RB50#0                | 21.89                                | 0.15                               |
|                  |              | 16-QAM     | RB1#0                 | 21.91                                | 0.16                               |
|                  |              |            | RB1#25                | 21.86                                | 0.15                               |
|                  |              |            | RB1#49                | 21.89                                | 0.15                               |
|                  |              |            | RB25#0                | 20.89                                | 0.12                               |
|                  |              |            | RB25#13               | 20.92                                | 0.12                               |
|                  |              |            | RB25#25               | 20.84                                | 0.12                               |
|                  |              |            | RB50#0                | 20.91                                | 0.12                               |
|                  | HCH          | QPSK       | RB1#0                 | 22.84                                | 0.19                               |

| Test BW          | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|------------------|--------------|------------|-----------------------|--------------------------------------|------------------------------------|
| <b>LTE Band5</b> |              |            |                       |                                      |                                    |
|                  |              |            | RB1#25                | 23.08                                | 0.20                               |
|                  |              |            | RB1#49                | 23.24                                | 0.21                               |
|                  |              |            | RB25#0                | 21.96                                | 0.16                               |
|                  |              |            | RB25#13               | 22.07                                | 0.16                               |
|                  |              |            | RB25#25               | 22.06                                | 0.16                               |
|                  |              |            | RB50#0                | 21.99                                | 0.16                               |
|                  |              | 16-QAM     | RB1#0                 | 21.79                                | 0.15                               |
|                  |              |            | RB1#25                | 22.13                                | 0.16                               |
|                  |              |            | RB1#49                | 21.89                                | 0.15                               |
|                  |              |            | RB25#0                | 21.2                                 | 0.13                               |
|                  |              |            | RB25#13               | 21.08                                | 0.13                               |
|                  |              |            | RB25#25               | 21.06                                | 0.13                               |
|                  |              |            | RB50#0                | 20.85                                | 0.12                               |

| Test BW          | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|------------------|--------------|------------|-----------------------|--------------------------------------|------------------------------------|
| <b>LTE Band7</b> |              |            |                       |                                      |                                    |
| 5 MHz            | LCH          | QPSK       | RB1#0                 | 22.17                                | 0.16                               |
|                  |              |            | RB1#13                | 22.27                                | 0.17                               |
|                  |              |            | RB1#24                | 22.29                                | 0.17                               |
|                  |              |            | RB12#0                | 21.49                                | 0.14                               |
|                  |              |            | RB12#6                | 21.43                                | 0.14                               |
|                  |              |            | RB12#13               | 21.46                                | 0.14                               |
|                  |              |            | RB25#0                | 21.45                                | 0.14                               |
|                  |              | 16-QAM     | RB1#0                 | 21.05                                | 0.13                               |
|                  |              |            | RB1#13                | 21.07                                | 0.13                               |
|                  |              |            | RB1#24                | 20.87                                | 0.12                               |
|                  |              |            | RB12#0                | 20.31                                | 0.11                               |
|                  |              |            | RB12#6                | 20.34                                | 0.11                               |
|                  |              |            | RB12#13               | 20.28                                | 0.11                               |
|                  |              |            | RB25#0                | 20.47                                | 0.11                               |
|                  | MCH          | QPSK       | RB1#0                 | 22.45                                | 0.18                               |
|                  |              |            | RB1#13                | 22.48                                | 0.18                               |
|                  |              |            | RB1#24                | 22.29                                | 0.17                               |
|                  |              |            | RB12#0                | 21.6                                 | 0.14                               |
|                  |              |            | RB12#6                | 21.64                                | 0.15                               |
|                  |              |            | RB12#13               | 21.68                                | 0.15                               |
|                  |              |            | RB25#0                | 21.55                                | 0.14                               |
|                  |              | 16-QAM     | RB1#0                 | 21.53                                | 0.14                               |
|                  |              |            | RB1#13                | 21.63                                | 0.15                               |
|                  |              |            | RB1#24                | 21.27                                | 0.13                               |
|                  |              |            | RB12#0                | 20.44                                | 0.11                               |
|                  |              |            | RB12#6                | 20.53                                | 0.11                               |
|                  |              |            | RB12#13               | 20.53                                | 0.11                               |
|                  |              |            | RB25#0                | 20.61                                | 0.12                               |
|                  | HCH          | QPSK       | RB1#0                 | 22.54                                | 0.18                               |
|                  |              |            | RB1#13                | 22.53                                | 0.18                               |
|                  |              |            | RB1#24                | 22.46                                | 0.18                               |
|                  |              |            | RB12#0                | 21.59                                | 0.14                               |
|                  |              |            | RB12#6                | 21.69                                | 0.15                               |
|                  |              |            | RB12#13               | 21.51                                | 0.14                               |
|                  |              |            | RB25#0                | 21.59                                | 0.14                               |
|                  |              | 16-QAM     | RB1#0                 | 21.31                                | 0.14                               |
|                  |              |            | RB1#13                | 21.21                                | 0.13                               |
|                  |              |            | RB1#24                | 20.97                                | 0.13                               |
|                  |              |            | RB12#0                | 20.4                                 | 0.11                               |

| Test BW          | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|------------------|--------------|------------|-----------------------|--------------------------------------|------------------------------------|
| <b>LTE Band7</b> |              |            |                       |                                      |                                    |
| 10 MHz           |              |            | RB12#6                | 20.62                                | 0.12                               |
|                  |              |            | RB12#13               | 20.51                                | 0.11                               |
|                  |              |            | RB25#0                | 20.52                                | 0.11                               |
|                  | LCH          | QPSK       | RB1#0                 | 22.37                                | 0.17                               |
|                  |              |            | RB1#25                | 22.47                                | 0.18                               |
|                  |              |            | RB1#49                | 22.33                                | 0.17                               |
|                  |              |            | RB25#0                | 21.55                                | 0.14                               |
|                  |              |            | RB25#13               | 21.49                                | 0.14                               |
|                  |              |            | RB25#25               | 21.55                                | 0.14                               |
|                  |              |            | RB50#0                | 21.58                                | 0.14                               |
|                  |              | 16-QAM     | RB1#0                 | 21.55                                | 0.14                               |
|                  |              |            | RB1#25                | 21.98                                | 0.16                               |
|                  |              |            | RB1#49                | 21.32                                | 0.14                               |
|                  |              |            | RB25#0                | 20.49                                | 0.11                               |
|                  |              |            | RB25#13               | 20.62                                | 0.12                               |
|                  |              |            | RB25#25               | 20.55                                | 0.11                               |
|                  |              |            | RB50#0                | 20.49                                | 0.11                               |
|                  | MCH          | QPSK       | RB1#0                 | 22.54                                | 0.18                               |
|                  |              |            | RB1#25                | 23.04                                | 0.20                               |
|                  |              |            | RB1#49                | 22.62                                | 0.18                               |
|                  |              |            | RB25#0                | 21.61                                | 0.14                               |
|                  |              |            | RB25#13               | 21.67                                | 0.15                               |
|                  |              |            | RB25#25               | 21.71                                | 0.15                               |
|                  |              |            | RB50#0                | 21.65                                | 0.15                               |
|                  |              | 16-QAM     | RB1#0                 | 21.42                                | 0.14                               |
|                  |              |            | RB1#25                | 21.4                                 | 0.14                               |
|                  |              |            | RB1#49                | 20.94                                | 0.12                               |
|                  |              |            | RB25#0                | 20.61                                | 0.12                               |
|                  |              |            | RB25#13               | 20.66                                | 0.12                               |
|                  |              |            | RB25#25               | 20.62                                | 0.12                               |
|                  |              |            | RB50#0                | 20.73                                | 0.12                               |
|                  | HCH          | QPSK       | RB1#0                 | 22.59                                | 0.18                               |
|                  |              |            | RB1#25                | 22.79                                | 0.19                               |
|                  |              |            | RB1#49                | 22.43                                | 0.17                               |
|                  |              |            | RB25#0                | 21.66                                | 0.15                               |
|                  |              |            | RB25#13               | 21.66                                | 0.15                               |
|                  |              |            | RB25#25               | 21.56                                | 0.14                               |
|                  |              |            | RB50#0                | 21.66                                | 0.15                               |
|                  |              | 16-QAM     | RB1#0                 | 21.65                                | 0.15                               |

| Test BW          | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|------------------|--------------|------------|-----------------------|--------------------------------------|------------------------------------|
| <b>LTE Band7</b> |              |            |                       |                                      |                                    |
|                  |              |            | RB1#25                | 21.52                                | 0.14                               |
|                  |              |            | RB1#49                | 21.69                                | 0.15                               |
|                  |              |            | RB25#0                | 20.86                                | 0.12                               |
|                  |              |            | RB25#13               | 20.78                                | 0.12                               |
|                  |              |            | RB25#25               | 20.67                                | 0.12                               |
|                  |              |            | RB50#0                | 20.58                                | 0.11                               |
| 15 MHz           | LCH          | QPSK       | RB1#0                 | 22.37                                | 0.17                               |
|                  |              |            | RB1#38                | 22.39                                | 0.17                               |
|                  |              |            | RB1#74                | 22.4                                 | 0.17                               |
|                  |              |            | RB36#0                | 21.5                                 | 0.14                               |
|                  |              |            | RB36#19               | 21.53                                | 0.14                               |
|                  |              |            | RB36#39               | 21.52                                | 0.14                               |
|                  |              |            | RB75#0                | 21.43                                | 0.14                               |
|                  |              | 16-QAM     | RB1#0                 | 21.57                                | 0.14                               |
|                  |              |            | RB1#38                | 22.06                                | 0.16                               |
|                  |              |            | RB1#74                | 21.38                                | 0.14                               |
|                  |              |            | RB36#0                | 20.55                                | 0.11                               |
|                  |              |            | RB36#19               | 20.52                                | 0.11                               |
|                  |              |            | RB36#39               | 20.51                                | 0.11                               |
|                  |              |            | RB75#0                | 20.51                                | 0.11                               |
|                  | MCH          | QPSK       | RB1#0                 | 22.34                                | 0.17                               |
|                  |              |            | RB1#38                | 22.57                                | 0.18                               |
|                  |              |            | RB1#74                | 22.54                                | 0.18                               |
|                  |              |            | RB36#0                | 21.63                                | 0.15                               |
|                  |              |            | RB36#19               | 21.59                                | 0.14                               |
|                  |              |            | RB36#39               | 21.68                                | 0.15                               |
|                  |              |            | RB75#0                | 21.64                                | 0.15                               |
|                  |              | 16-QAM     | RB1#0                 | 21.55                                | 0.14                               |
|                  |              |            | RB1#38                | 21.52                                | 0.14                               |
|                  |              |            | RB1#74                | 21.04                                | 0.13                               |
|                  |              |            | RB36#0                | 20.63                                | 0.12                               |
|                  |              |            | RB36#19               | 20.69                                | 0.12                               |
|                  |              |            | RB36#39               | 20.68                                | 0.12                               |
|                  |              |            | RB75#0                | 20.55                                | 0.11                               |
|                  | HCH          | QPSK       | RB1#0                 | 22.49                                | 0.18                               |
|                  |              |            | RB1#38                | 22.42                                | 0.17                               |
|                  |              |            | RB1#74                | 22.41                                | 0.17                               |
|                  |              |            | RB36#0                | 21.62                                | 0.15                               |
|                  |              |            | RB36#19               | 21.55                                | 0.14                               |

| Test BW          | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|------------------|--------------|------------|-----------------------|--------------------------------------|------------------------------------|
| <b>LTE Band7</b> |              |            |                       |                                      |                                    |
|                  |              |            | RB36#39               | 21.6                                 | 0.14                               |
|                  |              |            | RB75#0                | 21.6                                 | 0.14                               |
|                  |              | 16-QAM     | RB1#0                 | 22.22                                | 0.17                               |
|                  |              |            | RB1#38                | 22.03                                | 0.16                               |
|                  |              |            | RB1#74                | 22.03                                | 0.16                               |
|                  |              |            | RB36#0                | 20.67                                | 0.12                               |
|                  |              |            | RB36#19               | 20.65                                | 0.12                               |
|                  |              |            | RB36#39               | 20.52                                | 0.11                               |
|                  |              |            | RB75#0                | 20.63                                | 0.12                               |
| 20 MHz           | LCH          | QPSK       | RB1#0                 | 22.21                                | 0.17                               |
|                  |              |            | RB1#50                | 22.65                                | 0.18                               |
|                  |              |            | RB1#99                | 22.24                                | 0.17                               |
|                  |              |            | RB50#0                | 21.5                                 | 0.14                               |
|                  |              |            | RB50#25               | 21.52                                | 0.14                               |
|                  |              |            | RB50#50               | 21.54                                | 0.14                               |
|                  |              |            | RB100#0               | 21.53                                | 0.14                               |
|                  |              | 16-QAM     | RB1#0                 | 21.64                                | 0.15                               |
|                  |              |            | RB1#50                | 21.93                                | 0.16                               |
|                  |              |            | RB1#99                | 21.16                                | 0.13                               |
|                  |              |            | RB50#0                | 20.48                                | 0.11                               |
|                  |              |            | RB50#25               | 20.63                                | 0.12                               |
|                  |              |            | RB50#50               | 20.64                                | 0.12                               |
|                  |              |            | RB100#0               | 20.48                                | 0.11                               |
|                  | MCH          | QPSK       | RB1#0                 | 22.5                                 | 0.18                               |
|                  |              |            | RB1#50                | 22.96                                | 0.20                               |
|                  |              |            | RB1#99                | 22.65                                | 0.18                               |
|                  |              |            | RB50#0                | 21.68                                | 0.15                               |
|                  |              |            | RB50#25               | 21.67                                | 0.15                               |
|                  |              |            | RB50#50               | 21.73                                | 0.15                               |
|                  |              |            | RB100#0               | 21.69                                | 0.15                               |
|                  |              | 16-QAM     | RB1#0                 | 21.96                                | 0.16                               |
|                  |              |            | RB1#50                | 21.53                                | 0.14                               |
|                  |              |            | RB1#99                | 21.29                                | 0.13                               |
|                  |              |            | RB50#0                | 20.65                                | 0.12                               |
|                  |              |            | RB50#25               | 20.64                                | 0.12                               |
|                  |              |            | RB50#50               | 20.68                                | 0.12                               |
|                  |              |            | RB100#0               | 20.76                                | 0.12                               |
|                  | HCH          | QPSK       | RB1#0                 | 22.37                                | 0.17                               |
|                  |              |            | RB1#50                | 22.34                                | 0.17                               |



| Test BW          | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|------------------|--------------|------------|-----------------------|--------------------------------------|------------------------------------|
| <b>LTE Band7</b> |              |            |                       |                                      |                                    |
|                  |              |            | RB1#99                | 22.32                                | 0.17                               |
|                  |              |            | RB50#0                | 21.66                                | 0.15                               |
|                  |              |            | RB50#25               | 21.56                                | 0.14                               |
|                  |              |            | RB50#50               | 21.58                                | 0.14                               |
|                  |              |            | RB100#0               | 21.6                                 | 0.14                               |
|                  |              | 16-QAM     | RB1#0                 | 21.7                                 | 0.15                               |
|                  |              |            | RB1#50                | 21.4                                 | 0.14                               |
|                  |              |            | RB1#99                | 21.29                                | 0.13                               |
|                  |              |            | RB50#0                | 20.68                                | 0.12                               |
|                  |              |            | RB50#25               | 20.67                                | 0.12                               |
|                  |              |            | RB50#50               | 20.34                                | 0.11                               |
|                  |              |            | RB100#0               | 20.74                                | 0.12                               |

| Test BW           | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|-------------------|--------------|------------|-----------------------|--------------------------------------|------------------------------------|
| <b>LTE Band17</b> |              |            |                       |                                      |                                    |
| 5 MHz             | LCH          | QPSK       | RB1#0                 | 21.86                                | 0.15                               |
|                   |              |            | RB1#13                | 22.06                                | 0.16                               |
|                   |              |            | RB1#24                | 21.71                                | 0.15                               |
|                   |              |            | RB12#0                | 20.96                                | 0.12                               |
|                   |              |            | RB12#6                | 20.87                                | 0.12                               |
|                   |              |            | RB12#13               | 20.9                                 | 0.12                               |
|                   |              |            | RB25#0                | 20.93                                | 0.12                               |
|                   |              | 16-QAM     | RB1#0                 | 20.61                                | 0.12                               |
|                   |              |            | RB1#13                | 20.62                                | 0.12                               |
|                   |              |            | RB1#24                | 20.18                                | 0.10                               |
|                   |              |            | RB12#0                | 19.85                                | 0.10                               |
|                   |              |            | RB12#6                | 20.03                                | 0.10                               |
|                   |              |            | RB12#13               | 19.73                                | 0.09                               |
|                   |              |            | RB25#0                | 20.03                                | 0.10                               |
|                   | MCH          | QPSK       | RB1#0                 | 21.81                                | 0.15                               |
|                   |              |            | RB1#13                | 21.81                                | 0.15                               |
|                   |              |            | RB1#24                | 21.63                                | 0.15                               |
|                   |              |            | RB12#0                | 20.9                                 | 0.12                               |
|                   |              |            | RB12#6                | 20.9                                 | 0.12                               |
|                   |              |            | RB12#13               | 20.89                                | 0.12                               |
|                   |              |            | RB25#0                | 20.9                                 | 0.12                               |
|                   |              | 16-QAM     | RB1#0                 | 20.87                                | 0.12                               |
|                   |              |            | RB1#13                | 21.07                                | 0.13                               |
|                   |              |            | RB1#24                | 20.39                                | 0.11                               |
|                   |              |            | RB12#0                | 19.96                                | 0.10                               |
|                   |              |            | RB12#6                | 19.72                                | 0.09                               |
|                   |              |            | RB12#13               | 19.74                                | 0.09                               |
|                   |              |            | RB25#0                | 19.84                                | 0.10                               |
|                   | HCH          | QPSK       | RB1#0                 | 21.96                                | 0.16                               |
|                   |              |            | RB1#13                | 21.83                                | 0.15                               |
|                   |              |            | RB1#24                | 21.83                                | 0.15                               |
|                   |              |            | RB12#0                | 20.93                                | 0.12                               |
|                   |              |            | RB12#6                | 20.93                                | 0.12                               |
|                   |              |            | RB12#13               | 20.77                                | 0.12                               |
|                   |              |            | RB25#0                | 20.87                                | 0.12                               |
|                   |              | 16-QAM     | RB1#0                 | 20.38                                | 0.11                               |
|                   |              |            | RB1#13                | 20.71                                | 0.12                               |
|                   |              |            | RB1#24                | 19.97                                | 0.10                               |

| Test BW           | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|-------------------|--------------|------------|-----------------------|--------------------------------------|------------------------------------|
| <b>LTE Band17</b> |              |            |                       |                                      |                                    |
| 10 MHz            |              |            | RB12#0                | 19.77                                | 0.09                               |
|                   |              |            | RB12#6                | 19.87                                | 0.10                               |
|                   |              |            | RB12#13               | 19.71                                | 0.09                               |
|                   |              |            | RB25#0                | 19.82                                | 0.10                               |
|                   | LCH          | QPSK       | RB1#0                 | 22.03                                | 0.16                               |
|                   |              |            | RB1#25                | 21.99                                | 0.16                               |
|                   |              |            | RB1#49                | 21.82                                | 0.15                               |
|                   |              |            | RB25#0                | 21.05                                | 0.13                               |
|                   |              |            | RB25#13               | 21.04                                | 0.13                               |
|                   |              |            | RB25#25               | 20.93                                | 0.12                               |
|                   |              |            | RB50#0                | 21.05                                | 0.13                               |
|                   |              | 16-QAM     | RB1#0                 | 21.01                                | 0.13                               |
|                   |              |            | RB1#25                | 21.47                                | 0.14                               |
|                   |              |            | RB1#49                | 20.79                                | 0.12                               |
|                   |              |            | RB25#0                | 20.24                                | 0.11                               |
|                   |              |            | RB25#13               | 20.21                                | 0.10                               |
|                   |              |            | RB25#25               | 19.89                                | 0.10                               |
|                   |              |            | RB50#0                | 19.99                                | 0.10                               |
|                   | MCH          | QPSK       | RB1#0                 | 22.15                                | 0.16                               |
|                   |              |            | RB1#25                | 21.85                                | 0.15                               |
|                   |              |            | RB1#49                | 21.76                                | 0.15                               |
|                   |              |            | RB25#0                | 21.06                                | 0.13                               |
|                   |              |            | RB25#13               | 20.9                                 | 0.12                               |
|                   |              |            | RB25#25               | 20.94                                | 0.12                               |
|                   |              |            | RB50#0                | 20.89                                | 0.12                               |
|                   |              | 16-QAM     | RB1#0                 | 20.74                                | 0.12                               |
|                   |              |            | RB1#25                | 20.93                                | 0.12                               |
|                   |              |            | RB1#49                | 20.14                                | 0.10                               |
|                   |              |            | RB25#0                | 19.95                                | 0.10                               |
|                   |              |            | RB25#13               | 20                                   | 0.10                               |
|                   |              |            | RB25#25               | 20.04                                | 0.10                               |
|                   |              |            | RB50#0                | 19.94                                | 0.10                               |
|                   | HCH          | QPSK       | RB1#0                 | 21.92                                | 0.16                               |
|                   |              |            | RB1#25                | 22.13                                | 0.16                               |
|                   |              |            | RB1#49                | 21.6                                 | 0.14                               |
|                   |              |            | RB25#0                | 20.96                                | 0.12                               |
|                   |              |            | RB25#13               | 20.97                                | 0.13                               |
|                   |              |            | RB25#25               | 20.88                                | 0.12                               |
|                   |              |            | RB50#0                | 20.93                                | 0.12                               |

| Test BW           | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|-------------------|--------------|------------|-----------------------|--------------------------------------|------------------------------------|
| <b>LTE Band17</b> |              |            |                       |                                      |                                    |
|                   |              | 16-QAM     | RB1#0                 | 20.73                                | 0.12                               |
|                   |              |            | RB1#25                | 20.77                                | 0.12                               |
|                   |              |            | RB1#49                | 20.75                                | 0.12                               |
|                   |              |            | RB25#0                | 20.23                                | 0.11                               |
|                   |              |            | RB25#13               | 20.23                                | 0.11                               |
|                   |              |            | RB25#25               | 20.12                                | 0.10                               |
|                   |              |            | RB50#0                | 19.82                                | 0.10                               |

| Test BW           | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|-------------------|--------------|------------|-----------------------|--------------------------------------|------------------------------------|
| <b>LTE Band41</b> |              |            |                       |                                      |                                    |
| 5 MHz             | LCH          | QPSK       | RB1#0                 | 22.08                                | 0.16                               |
|                   |              |            | RB1#13                | 22.18                                | 0.17                               |
|                   |              |            | RB1#24                | 22.09                                | 0.16                               |
|                   |              |            | RB12#0                | 21.22                                | 0.13                               |
|                   |              |            | RB12#6                | 21.31                                | 0.14                               |
|                   |              |            | RB12#13               | 21.27                                | 0.13                               |
|                   |              |            | RB25#0                | 21.29                                | 0.13                               |
|                   |              | 16-QAM     | RB1#0                 | 20.66                                | 0.12                               |
|                   |              |            | RB1#13                | 20.74                                | 0.12                               |
|                   |              |            | RB1#24                | 20.73                                | 0.12                               |
|                   |              |            | RB12#0                | 20.19                                | 0.10                               |
|                   |              |            | RB12#6                | 20.19                                | 0.10                               |
|                   |              |            | RB12#13               | 20.12                                | 0.10                               |
|                   |              |            | RB25#0                | 20.32                                | 0.11                               |
|                   | MCH          | QPSK       | RB1#0                 | 22.11                                | 0.16                               |
|                   |              |            | RB1#13                | 22.12                                | 0.16                               |
|                   |              |            | RB1#24                | 22.21                                | 0.17                               |
|                   |              |            | RB12#0                | 21.46                                | 0.14                               |
|                   |              |            | RB12#6                | 21.54                                | 0.14                               |
|                   |              |            | RB12#13               | 21.48                                | 0.14                               |
|                   |              |            | RB25#0                | 21.51                                | 0.14                               |
|                   |              | 16-QAM     | RB1#0                 | 21.36                                | 0.14                               |
|                   |              |            | RB1#13                | 21.06                                | 0.13                               |
|                   |              |            | RB1#24                | 20.99                                | 0.13                               |
|                   |              |            | RB12#0                | 20.35                                | 0.11                               |
|                   |              |            | RB12#6                | 20.39                                | 0.11                               |
|                   |              |            | RB12#13               | 20.35                                | 0.11                               |
|                   |              |            | RB25#0                | 20.44                                | 0.11                               |
|                   | HCH          | QPSK       | RB1#0                 | 22.35                                | 0.17                               |
|                   |              |            | RB1#13                | 22.47                                | 0.18                               |
|                   |              |            | RB1#24                | 22.47                                | 0.18                               |
|                   |              |            | RB12#0                | 21.71                                | 0.15                               |
|                   |              |            | RB12#6                | 21.7                                 | 0.15                               |
|                   |              |            | RB12#13               | 21.67                                | 0.15                               |
|                   |              |            | RB25#0                | 21.61                                | 0.14                               |
|                   |              | 16-QAM     | RB1#0                 | 21.44                                | 0.14                               |
|                   |              |            | RB1#13                | 21.4                                 | 0.14                               |
|                   |              |            | RB1#24                | 21.42                                | 0.14                               |
|                   |              |            | RB12#0                | 20.73                                | 0.12                               |

| Test BW           | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|-------------------|--------------|------------|-----------------------|--------------------------------------|------------------------------------|
| <b>LTE Band41</b> |              |            |                       |                                      |                                    |
| 10 MHz            | LCH          |            | RB12#6                | 20.84                                | 0.12                               |
|                   |              |            | RB12#13               | 20.8                                 | 0.12                               |
|                   |              |            | RB25#0                | 20.64                                | 0.12                               |
|                   | LCH          | QPSK       | RB1#0                 | 22.28                                | 0.17                               |
|                   |              |            | RB1#25                | 22.3                                 | 0.17                               |
|                   |              |            | RB1#49                | 22.28                                | 0.17                               |
|                   |              |            | RB25#0                | 21.37                                | 0.14                               |
|                   |              |            | RB25#13               | 21.41                                | 0.14                               |
|                   |              |            | RB25#25               | 21.33                                | 0.14                               |
|                   |              |            | RB50#0                | 21.36                                | 0.14                               |
|                   |              | 16-QAM     | RB1#0                 | 21.67                                | 0.15                               |
|                   |              |            | RB1#25                | 21.93                                | 0.16                               |
|                   |              |            | RB1#49                | 21.47                                | 0.14                               |
|                   |              |            | RB25#0                | 20.49                                | 0.11                               |
|                   |              |            | RB25#13               | 20.51                                | 0.11                               |
|                   |              |            | RB25#25               | 20.46                                | 0.11                               |
|                   |              |            | RB50#0                | 20.18                                | 0.10                               |
|                   | MCH          | QPSK       | RB1#0                 | 22.46                                | 0.18                               |
|                   |              |            | RB1#25                | 22.58                                | 0.18                               |
|                   |              |            | RB1#49                | 22.43                                | 0.17                               |
|                   |              |            | RB25#0                | 21.53                                | 0.14                               |
|                   |              |            | RB25#13               | 21.54                                | 0.14                               |
|                   |              |            | RB25#25               | 21.49                                | 0.14                               |
|                   |              |            | RB50#0                | 21.55                                | 0.14                               |
|                   |              | 16-QAM     | RB1#0                 | 20.95                                | 0.12                               |
|                   |              |            | RB1#25                | 20.89                                | 0.12                               |
|                   |              |            | RB1#49                | 20.87                                | 0.12                               |
|                   |              |            | RB25#0                | 20.53                                | 0.11                               |
|                   |              |            | RB25#13               | 20.5                                 | 0.11                               |
|                   |              |            | RB25#25               | 20.46                                | 0.11                               |
|                   |              |            | RB50#0                | 20.57                                | 0.11                               |
|                   | HCH          | QPSK       | RB1#0                 | 22.55                                | 0.18                               |
|                   |              |            | RB1#25                | 22.41                                | 0.17                               |
|                   |              |            | RB1#49                | 22.48                                | 0.18                               |
|                   |              |            | RB25#0                | 21.7                                 | 0.15                               |
|                   |              |            | RB25#13               | 21.95                                | 0.16                               |
|                   |              |            | RB25#25               | 21.74                                | 0.15                               |
|                   |              |            | RB50#0                | 21.66                                | 0.15                               |
|                   |              | 16-QAM     | RB1#0                 | 22.4                                 | 0.17                               |

| Test BW           | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|-------------------|--------------|------------|-----------------------|--------------------------------------|------------------------------------|
| <b>LTE Band41</b> |              |            |                       |                                      |                                    |
| 15 MHz            |              |            | RB1#25                | 22.66                                | 0.18                               |
|                   |              |            | RB1#49                | 22.45                                | 0.18                               |
|                   |              |            | RB25#0                | 20.75                                | 0.12                               |
|                   |              |            | RB25#13               | 20.74                                | 0.12                               |
|                   |              |            | RB25#25               | 20.81                                | 0.12                               |
|                   |              |            | RB50#0                | 20.75                                | 0.12                               |
|                   | LCH          | QPSK       | RB1#0                 | 22.34                                | 0.17                               |
|                   |              |            | RB1#38                | 22.33                                | 0.17                               |
|                   |              |            | RB1#74                | 22.16                                | 0.16                               |
|                   |              |            | RB36#0                | 21.35                                | 0.14                               |
|                   |              |            | RB36#19               | 21.34                                | 0.14                               |
|                   |              |            | RB36#39               | 21.33                                | 0.14                               |
|                   |              |            | RB75#0                | 21.34                                | 0.14                               |
|                   |              | 16-QAM     | RB1#0                 | 21.69                                | 0.15                               |
|                   |              |            | RB1#38                | 21.61                                | 0.14                               |
|                   |              |            | RB1#74                | 21.64                                | 0.15                               |
|                   |              |            | RB36#0                | 20.16                                | 0.10                               |
|                   |              |            | RB36#19               | 20.12                                | 0.10                               |
|                   |              |            | RB36#39               | 20.08                                | 0.10                               |
|                   |              |            | RB75#0                | 20.5                                 | 0.11                               |
|                   | MCH          | QPSK       | RB1#0                 | 22.21                                | 0.17                               |
|                   |              |            | RB1#38                | 22.24                                | 0.17                               |
|                   |              |            | RB1#74                | 22.17                                | 0.16                               |
|                   |              |            | RB36#0                | 21.5                                 | 0.14                               |
|                   |              |            | RB36#19               | 21.49                                | 0.14                               |
|                   |              |            | RB36#39               | 21.48                                | 0.14                               |
|                   |              |            | RB75#0                | 21.5                                 | 0.14                               |
|                   |              | 16-QAM     | RB1#0                 | 21.43                                | 0.14                               |
|                   |              |            | RB1#38                | 21.3                                 | 0.13                               |
|                   |              |            | RB1#74                | 21.31                                | 0.14                               |
|                   |              |            | RB36#0                | 20.46                                | 0.11                               |
|                   |              |            | RB36#19               | 20.37                                | 0.11                               |
|                   |              |            | RB36#39               | 20.45                                | 0.11                               |
|                   |              |            | RB75#0                | 20.6                                 | 0.11                               |
|                   | HCH          | QPSK       | RB1#0                 | 22.69                                | 0.19                               |
|                   |              |            | RB1#38                | 22.5                                 | 0.18                               |
|                   |              |            | RB1#74                | 22.45                                | 0.18                               |
|                   |              |            | RB36#0                | 21.71                                | 0.15                               |
|                   |              |            | RB36#19               | 21.63                                | 0.15                               |

| Test BW           | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|-------------------|--------------|------------|-----------------------|--------------------------------------|------------------------------------|
| <b>LTE Band41</b> |              |            |                       |                                      |                                    |
|                   |              |            | RB36#39               | 21.65                                | 0.15                               |
|                   |              |            | RB75#0                | 21.65                                | 0.15                               |
|                   |              | 16-QAM     | RB1#0                 | 22.14                                | 0.16                               |
|                   |              |            | RB1#38                | 21.95                                | 0.16                               |
|                   |              |            | RB1#74                | 22.04                                | 0.16                               |
|                   |              |            | RB36#0                | 20.53                                | 0.11                               |
|                   |              |            | RB36#19               | 20.47                                | 0.11                               |
|                   |              |            | RB36#39               | 20.53                                | 0.11                               |
|                   |              |            | RB75#0                | 20.79                                | 0.12                               |
| 20 MHz            | LCH          | QPSK       | RB1#0                 | 22.02                                | 0.16                               |
|                   |              |            | RB1#50                | 22.31                                | 0.17                               |
|                   |              |            | RB1#99                | 22.01                                | 0.16                               |
|                   |              |            | RB50#0                | 21.38                                | 0.14                               |
|                   |              |            | RB50#25               | 21.35                                | 0.14                               |
|                   |              |            | RB50#50               | 21.35                                | 0.14                               |
|                   |              |            | RB100#0               | 21.32                                | 0.14                               |
|                   |              | 16-QAM     | RB1#0                 | 20.99                                | 0.13                               |
|                   |              |            | RB1#50                | 21.13                                | 0.13                               |
|                   |              |            | RB1#99                | 20.84                                | 0.12                               |
|                   |              |            | RB50#0                | 20.38                                | 0.11                               |
|                   |              |            | RB50#25               | 20.36                                | 0.11                               |
|                   |              |            | RB50#50               | 20.38                                | 0.11                               |
|                   |              |            | RB100#0               | 20.36                                | 0.11                               |
|                   | MCH          | QPSK       | RB1#0                 | 22.19                                | 0.17                               |
|                   |              |            | RB1#50                | 22.5                                 | 0.18                               |
|                   |              |            | RB1#99                | 22.08                                | 0.16                               |
|                   |              |            | RB50#0                | 21.52                                | 0.14                               |
|                   |              |            | RB50#25               | 21.47                                | 0.14                               |
|                   |              |            | RB50#50               | 21.47                                | 0.14                               |
|                   |              |            | RB100#0               | 21.47                                | 0.14                               |
|                   |              | 16-QAM     | RB1#0                 | 20.64                                | 0.12                               |
|                   |              |            | RB1#50                | 20.66                                | 0.12                               |
|                   |              |            | RB1#99                | 20.55                                | 0.11                               |
|                   |              |            | RB50#0                | 20.53                                | 0.11                               |
|                   |              |            | RB50#25               | 20.51                                | 0.11                               |
|                   |              |            | RB50#50               | 20.55                                | 0.11                               |
|                   |              |            | RB100#0               | 20.42                                | 0.11                               |
|                   | HCH          | QPSK       | RB1#0                 | 22.85                                | 0.19                               |
|                   |              |            | RB1#50                | 22.73                                | 0.19                               |



| Test BW           | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output Average Power (dBm) | Conducted Output Average Power (W) |
|-------------------|--------------|------------|-----------------------|--------------------------------------|------------------------------------|
| <b>LTE Band41</b> |              |            |                       |                                      |                                    |
|                   |              |            | RB1#99                | 22.6                                 | 0.18                               |
|                   |              |            | RB50#0                | 21.74                                | 0.15                               |
|                   |              |            | RB50#25               | 21.63                                | 0.15                               |
|                   |              |            | RB50#50               | 21.65                                | 0.15                               |
|                   |              |            | RB100#0               | 21.67                                | 0.15                               |
|                   |              | 16-QAM     | RB1#0                 | 22.26                                | 0.17                               |
|                   |              |            | RB1#50                | 21.76                                | 0.15                               |
|                   |              |            | RB1#99                | 21.96                                | 0.16                               |
|                   |              |            | RB50#0                | 20.84                                | 0.12                               |
|                   |              |            | RB50#25               | 20.69                                | 0.12                               |
|                   |              |            | RB50#50               | 20.64                                | 0.12                               |
|                   |              |            | RB100#0               | 20.73                                | 0.12                               |

## A.1.2 Effective (Isotropic) Radiated Power

### GSM Mode Test Data

| Test Band | Channel | PCL | Measured ERP        |                       |           |         | Limit (W) | Verdict |
|-----------|---------|-----|---------------------|-----------------------|-----------|---------|-----------|---------|
|           |         |     | SA Read Value (dBm) | Correction Factor(dB) | ERP (dBm) | ERP (W) |           |         |
| GSM 850   | LCH     | 5   | 16.46               | 9.83                  | 26.29     | 0.43    | 7         | Pass    |
|           | MCH     | 5   | 16.33               | 9.83                  | 26.16     | 0.41    |           | Pass    |
|           | HCH     | 5   | 16.5                | 9.83                  | 26.33     | 0.43    |           | Pass    |
| GPRS 850  | LCH     | 5   | 14.73               | 9.83                  | 24.56     | 0.29    |           | Pass    |
|           | MCH     | 5   | 15.01               | 9.83                  | 24.84     | 0.30    |           | Pass    |
|           | HCH     | 5   | 15.34               | 9.83                  | 25.17     | 0.33    |           | Pass    |
| EGPRS 850 | LCH     | 8   | 14.53               | 9.83                  | 24.36     | 0.27    |           | Pass    |
|           | MCH     | 8   | 15.44               | 9.83                  | 25.27     | 0.34    |           | Pass    |
|           | HCH     | 8   | 14.93               | 9.83                  | 24.76     | 0.30    |           | Pass    |

| Test Band  | Channel | PCL | Measured EIRP       |                       |            |          | Limit (W) | Verdict |
|------------|---------|-----|---------------------|-----------------------|------------|----------|-----------|---------|
|            |         |     | SA Read Value (dBm) | Correction Factor(dB) | EIRP (dBm) | EIRP (W) |           |         |
| GSM 1900   | LCH     | 0   | 11.62               | 17.8                  | 29.42      | 0.87     | 2         | Pass    |
|            | MCH     | 0   | 11.41               | 17.8                  | 29.21      | 0.83     |           | Pass    |
|            | HCH     | 0   | 11.72               | 17.8                  | 29.52      | 0.90     |           | Pass    |
| GPRS 1900  | LCH     | 0   | 11.69               | 17.8                  | 29.49      | 0.89     |           | Pass    |
|            | MCH     | 0   | 11.47               | 17.8                  | 29.27      | 0.85     |           | Pass    |
|            | HCH     | 0   | 11.78               | 17.8                  | 29.58      | 0.91     |           | Pass    |
| EGPRS 1900 | LCH     | 2   | 11.49               | 17.8                  | 29.29      | 0.85     |           | Pass    |
|            | MCH     | 2   | 11.69               | 17.8                  | 29.49      | 0.89     |           | Pass    |
|            | HCH     | 2   | 11.11               | 17.8                  | 28.91      | 0.78     |           | Pass    |

Note 1: For the GPRS and EGPRS mode, all the slots were tested and just the worst data were recorded in this table.

Note 2:  $ERP/EIRP = SA \text{ Read Value} + \text{Correction Factor}$

where:

ERP/EIRP = effective or equivalent radiated power, in dBm;

SA Read Value = measured transmitter power received by EMI receiver or spectrum analyzer, in dBm;

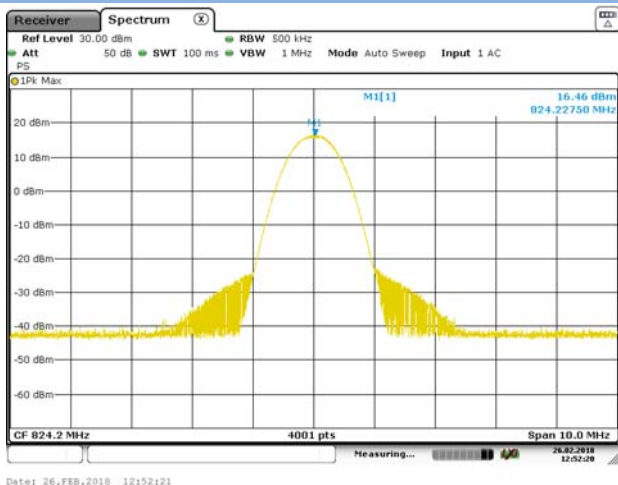
Correction Factor = total correction factor including cable loss, in dB;

Note 3: Set PCL to 5 for GSM/GPRS 850 (power class 4) and 0 for GSM/GPRS 1900 (power class 1). Set PCL to 8 for EGPRS850 (power class E2) and 2 for EGPRS1900 (power class E2).

## GSM Mode Test Plots

### GSM850

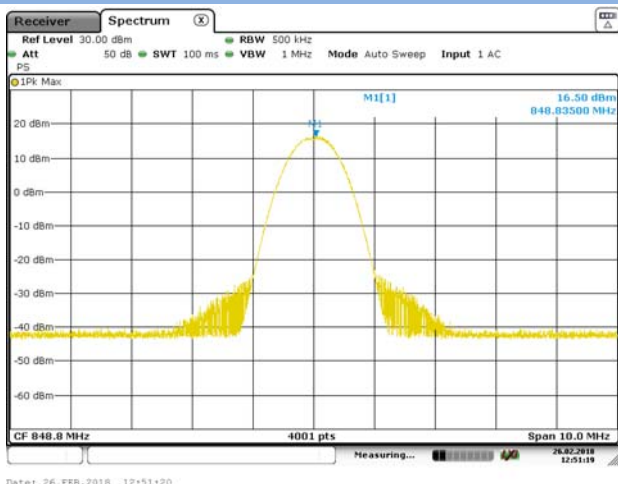
#### GSM 850 LOW CHANNEL



#### GSM 850 MIDDLE CHANNEL

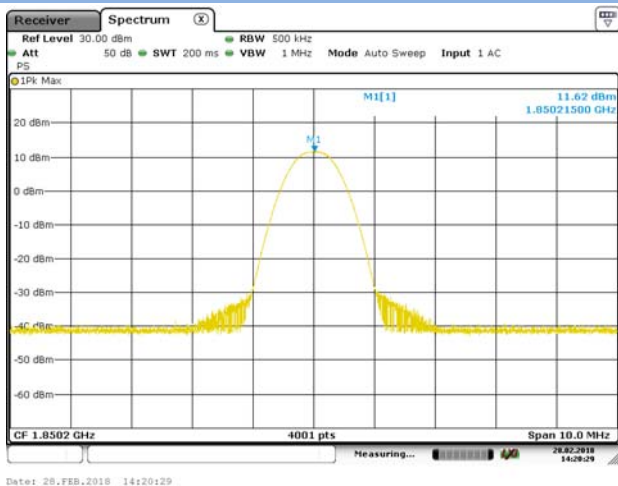


#### GSM 850 HIGH CHANNEL

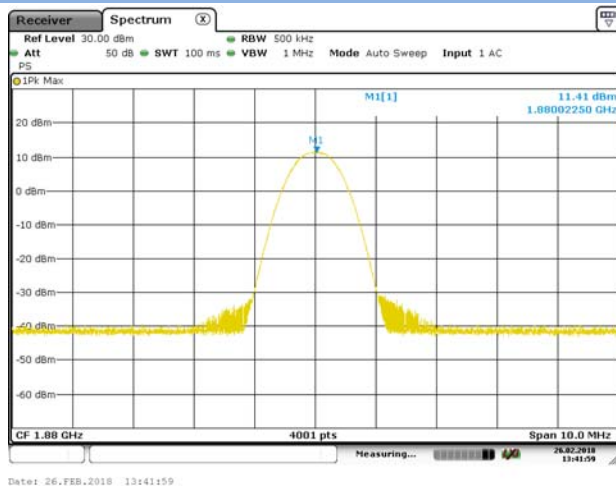


### GSM1900

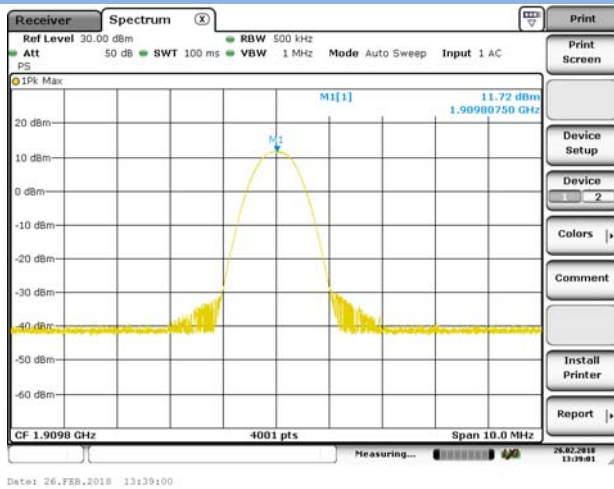
#### GSM 1900 LOW CHANNEL



#### GSM 1900 MIDDLE CHANNEL

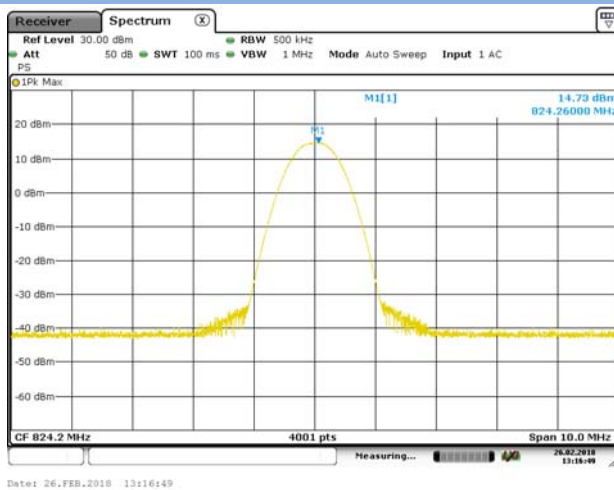


## GSM 1900 HIGH CHANNEL

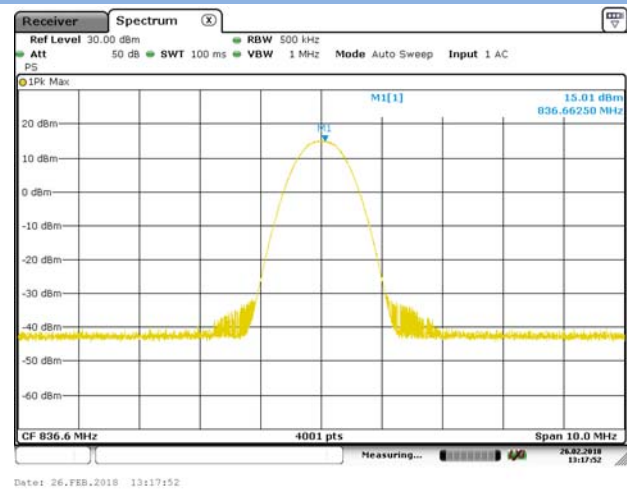


## GPRS850

### GPRS 850 LOW CHANNEL



### GPRS 850 MIDDLE CHANNEL

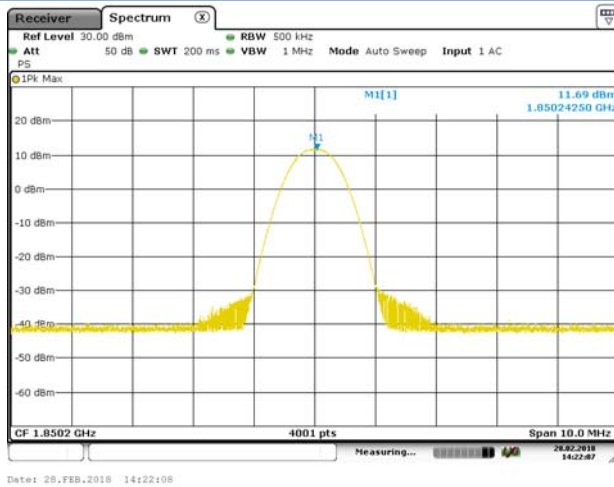


### GPRS 850 HIGH CHANNEL

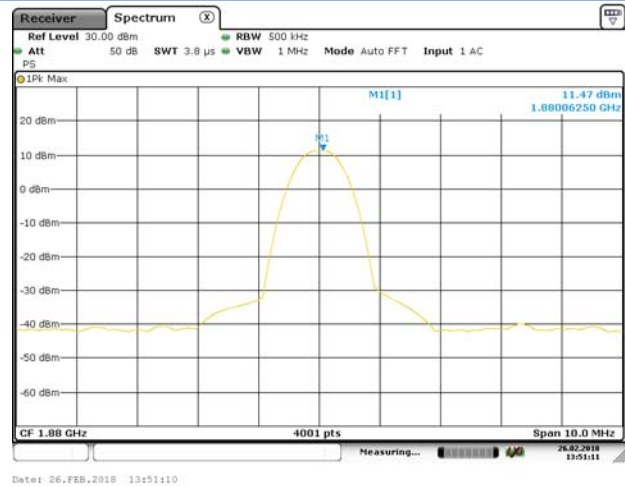


## GPRS1900

### GPRS 1900 LOW CHANNEL



### GPRS 1900 MIDDLE CHANNEL

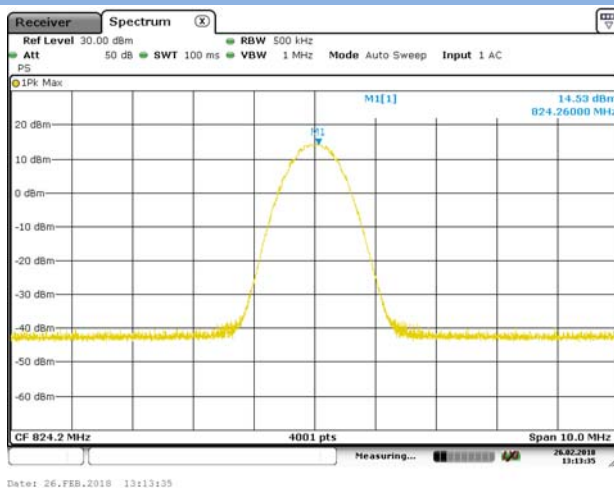


### GPRS 1900 HIGH CHANNEL

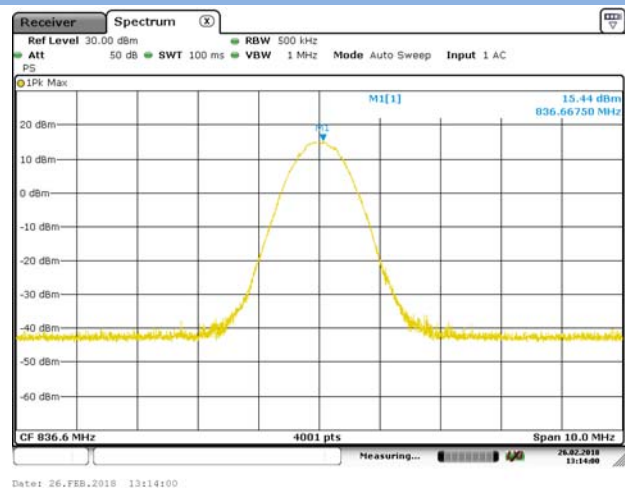


## EGPRS850

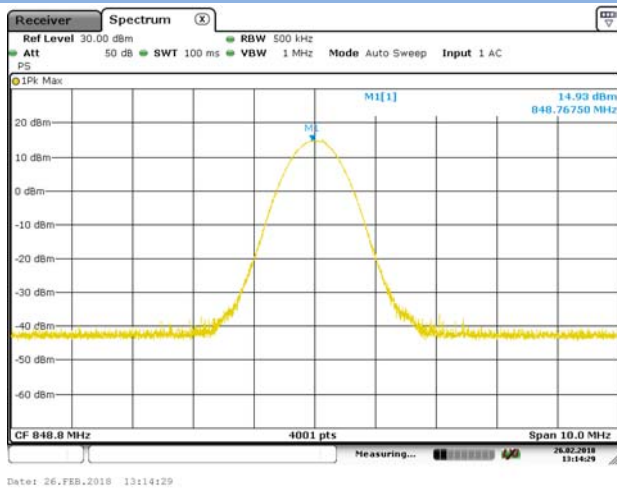
### EGPRS 850 LOW CHANNEL



### EGPRS 850 MIDDLE CHANNEL

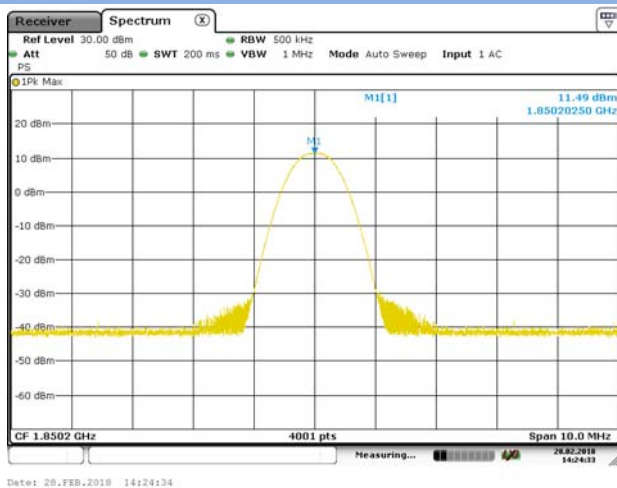


### EGPRS 850 HIGH CHANNEL

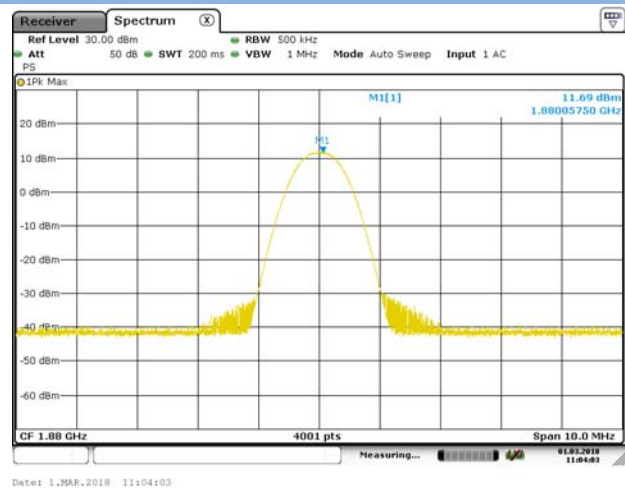


### EGPRS1900

#### EGPRS 1900 LOW CHANNEL



#### EGPRS 1900 MIDDLE CHANNEL



#### EGPRS 1900 HIGH CHANNEL



## WCDMA Mode Test Data:

| Test Band | Channel | Measured EIRP       |                       |            |          | Limit (W) | Verdict |
|-----------|---------|---------------------|-----------------------|------------|----------|-----------|---------|
|           |         | SA Read Value (dBm) | Correction Factor(dB) | EIRP (dBm) | EIRP (W) |           |         |
| WCDMA B2  | LCH     | 0.81                | 17.8                  | 18.61      | 0.07     | 2         | Pass    |
|           | MCH     | 0.67                | 17.8                  | 18.47      | 0.07     |           | Pass    |
|           | HCH     | 0.71                | 17.8                  | 18.51      | 0.07     |           | Pass    |
| HSDPA B2  | LCH     | 0.72                | 17.8                  | 18.52      | 0.07     |           | Pass    |
|           | MCH     | 0.61                | 17.8                  | 18.41      | 0.07     |           | Pass    |
|           | HCH     | 0.67                | 17.8                  | 18.47      | 0.07     |           | Pass    |
| HSUPA B2  | LCH     | 0.58                | 17.8                  | 18.38      | 0.07     |           | Pass    |
|           | MCH     | 0.51                | 17.8                  | 18.31      | 0.07     |           | Pass    |
|           | HCH     | 0.53                | 17.8                  | 18.33      | 0.07     |           | Pass    |

| Test Band | Channel | Measured ERP        |                       |           |         | Limit (W) | Verdict |
|-----------|---------|---------------------|-----------------------|-----------|---------|-----------|---------|
|           |         | SA Read Value (dBm) | Correction Factor(dB) | ERP (dBm) | ERP (W) |           |         |
| WCDMA B5  | LCH     | 9.35                | 9.83                  | 19.18     | 0.08    | 7         | Pass    |
|           | MCH     | 9.32                | 9.83                  | 19.15     | 0.08    |           | Pass    |
|           | HCH     | 9.11                | 9.83                  | 18.94     | 0.08    |           | Pass    |
| HSDPA B5  | LCH     | 8.14                | 9.83                  | 17.97     | 0.06    |           | Pass    |
|           | MCH     | 8.09                | 9.83                  | 17.92     | 0.06    |           | Pass    |
|           | HCH     | 8.1                 | 9.83                  | 17.93     | 0.06    |           | Pass    |
| HSUPA B5  | LCH     | 7.15                | 9.83                  | 16.98     | 0.05    |           | Pass    |
|           | MCH     | 7.23                | 9.83                  | 17.06     | 0.05    |           | Pass    |
|           | HCH     | 7.21                | 9.83                  | 17.04     | 0.05    |           | Pass    |

Note 1: For the HSDPA and HSUPA mode, all the subtests were tested and just the worst data were recorded in this table.

Note 2:  $ERP/EIRP = SA\ Read\ Value + Correction\ Factor$

where:

ERP/EIRP = effective or equivalent radiated power, in dBm;

SA Read Value = measured transmitter power received by EMI receiver or spectrum analyzer, in dBm;

Correction Factor = total correction factor including cable loss, in dB;



## CDMA/EVDO Mode Test Data:

| Test Band   | Channel | Measured ERP        |                       |           |         | Limit (W) | Verdict |
|-------------|---------|---------------------|-----------------------|-----------|---------|-----------|---------|
|             |         | SA Read Value (dBm) | Correction Factor(dB) | ERP (dBm) | ERP (W) |           |         |
| CDMA F1R1   | LCH     | 8.34                | 9.83                  | 18.17     | 0.07    | 7         | Pass    |
|             | MCH     | 8.15                | 9.83                  | 17.98     | 0.06    |           | Pass    |
|             | HCH     | 8.09                | 9.83                  | 17.92     | 0.06    |           | Pass    |
| CDMA F3R3   | LCH     | 8.11                | 9.83                  | 17.94     | 0.06    |           | Pass    |
|             | MCH     | 8.01                | 9.83                  | 17.84     | 0.06    |           | Pass    |
|             | HCH     | 8.12                | 9.83                  | 17.95     | 0.06    |           | Pass    |
| CDMA Rel. 0 | LCH     | 8.25                | 9.83                  | 18.08     | 0.06    |           | Pass    |
|             | MCH     | 8.19                | 9.83                  | 18.02     | 0.06    |           | Pass    |
|             | HCH     | 8.14                | 9.83                  | 17.97     | 0.06    |           | Pass    |
| CDMA Rev. A | LCH     | 8.28                | 9.83                  | 18.11     | 0.06    |           | Pass    |
|             | MCH     | 8.08                | 9.83                  | 17.91     | 0.06    |           | Pass    |
|             | HCH     | 8.17                | 9.83                  | 18.00     | 0.06    |           | Pass    |

## LTE Mode Test Data:

| Test BW   | Test Channel | Test Model | Test RB (Size#Offset) | SA Read Value (dBm) | Correction Factor(dB) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-----------|--------------|------------|-----------------------|---------------------|-----------------------|------------|----------|-----------|---------|
| LTE BAND2 |              |            |                       |                     |                       |            |          |           |         |
| 1.4 MHz   | LCH          | QPSK       | RB1#0                 | 0.87                | 17.8                  | 18.67      | 0.07     | 2.00      | Pass    |
|           |              |            | RB6#0                 | 0.11                | 17.8                  | 17.91      | 0.06     | 2.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 0.67                | 17.8                  | 18.47      | 0.07     | 2.00      | Pass    |
|           |              |            | RB6#0                 | -0.17               | 17.8                  | 17.63      | 0.06     | 2.00      | Pass    |
|           | MCH          | QPSK       | RB1#0                 | 0.78                | 17.8                  | 18.58      | 0.07     | 2.00      | Pass    |
|           |              |            | RB6#0                 | 0.08                | 17.8                  | 17.88      | 0.06     | 2.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 0.11                | 17.8                  | 17.91      | 0.06     | 2.00      | Pass    |
|           |              |            | RB6#0                 | -0.57               | 17.8                  | 17.23      | 0.05     | 2.00      | Pass    |
|           | HCH          | QPSK       | RB1#0                 | 0.78                | 17.8                  | 18.58      | 0.07     | 2.00      | Pass    |
|           |              |            | RB6#0                 | 0.24                | 17.8                  | 18.04      | 0.06     | 2.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 0.77                | 17.8                  | 18.57      | 0.07     | 2.00      | Pass    |
|           |              |            | RB6#0                 | 0.43                | 17.8                  | 18.23      | 0.07     | 2.00      | Pass    |
| 3 MHz     | LCH          | QPSK       | RB1#0                 | 1.3                 | 17.8                  | 19.10      | 0.08     | 2.00      | Pass    |
|           |              |            | RB15#0                | 0.18                | 17.8                  | 17.98      | 0.06     | 2.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 1.03                | 17.8                  | 18.83      | 0.08     | 2.00      | Pass    |
|           |              |            | RB15#0                | 0.11                | 17.8                  | 17.91      | 0.06     | 2.00      | Pass    |
|           | MCH          | QPSK       | RB1#0                 | 0.72                | 17.8                  | 18.52      | 0.07     | 2.00      | Pass    |
|           |              |            | RB15#0                | 0.21                | 17.8                  | 18.01      | 0.06     | 2.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 0.41                | 17.8                  | 18.21      | 0.07     | 2.00      | Pass    |
|           |              |            | RB15#0                | -0.33               | 17.8                  | 17.47      | 0.06     | 2.00      | Pass    |
|           | HCH          | QPSK       | RB1#0                 | 0.97                | 17.8                  | 18.77      | 0.08     | 2.00      | Pass    |
|           |              |            | RB15#0                | 0.2                 | 17.8                  | 18.00      | 0.06     | 2.00      | Pass    |



| Test BW          | Test Channel | Test Model | Test RB (Size#Offset) | SA Read Value (dBm) | Correction Factor(dB) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|------------------|--------------|------------|-----------------------|---------------------|-----------------------|------------|----------|-----------|---------|
| <b>LTE BAND2</b> |              |            |                       |                     |                       |            |          |           |         |
| 5 MHz            |              | 16-QAM     | RB1#0                 | 0.65                | 17.8                  | 18.45      | 0.07     | 2.00      | Pass    |
|                  |              |            | RB15#0                | 0.46                | 17.8                  | 18.26      | 0.07     | 2.00      | Pass    |
|                  | LCH          | QPSK       | RB1#0                 | 1.12                | 17.8                  | 18.92      | 0.08     | 2.00      | Pass    |
|                  |              |            | RB25#0                | 0.33                | 17.8                  | 18.13      | 0.07     | 2.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 0.55                | 17.8                  | 18.35      | 0.07     | 2.00      | Pass    |
|                  |              |            | RB25#0                | 0.03                | 17.8                  | 17.83      | 0.06     | 2.00      | Pass    |
|                  | MCH          | QPSK       | RB1#0                 | 1.19                | 17.8                  | 18.99      | 0.08     | 2.00      | Pass    |
|                  |              |            | RB25#0                | 0.27                | 17.8                  | 18.07      | 0.06     | 2.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 0.28                | 17.8                  | 18.08      | 0.06     | 2.00      | Pass    |
|                  |              |            | RB25#0                | -0.3                | 17.8                  | 17.50      | 0.06     | 2.00      | Pass    |
|                  | HCH          | QPSK       | RB1#0                 | 0.92                | 17.8                  | 18.72      | 0.07     | 2.00      | Pass    |
|                  |              |            | RB25#0                | 0.16                | 17.8                  | 17.96      | 0.06     | 2.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 1.2                 | 17.8                  | 19.00      | 0.08     | 2.00      | Pass    |
|                  |              |            | RB25#0                | 0.41                | 17.8                  | 18.21      | 0.07     | 2.00      | Pass    |
| 10 MHz           | LCH          | QPSK       | RB1#0                 | 1.22                | 17.8                  | 19.02      | 0.08     | 2.00      | Pass    |
|                  |              |            | RB50#0                | 0.37                | 17.8                  | 18.17      | 0.07     | 2.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 0.58                | 17.8                  | 18.38      | 0.07     | 2.00      | Pass    |
|                  |              |            | RB50#0                | 0.19                | 17.8                  | 17.99      | 0.06     | 2.00      | Pass    |
|                  | MCH          | QPSK       | RB1#0                 | 1.04                | 17.8                  | 18.84      | 0.08     | 2.00      | Pass    |
|                  |              |            | RB50#0                | 0.22                | 17.8                  | 18.02      | 0.06     | 2.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 0.27                | 17.8                  | 18.07      | 0.06     | 2.00      | Pass    |
|                  |              |            | RB50#0                | -0.39               | 17.8                  | 17.41      | 0.06     | 2.00      | Pass    |
|                  | HCH          | QPSK       | RB1#0                 | 0.88                | 17.8                  | 18.68      | 0.07     | 2.00      | Pass    |
|                  |              |            | RB50#0                | 0.35                | 17.8                  | 18.15      | 0.07     | 2.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 1                   | 17.8                  | 18.80      | 0.08     | 2.00      | Pass    |
|                  |              |            | RB50#0                | 0.8                 | 17.8                  | 18.60      | 0.07     | 2.00      | Pass    |
| 15 MHz           | LCH          | QPSK       | RB1#0                 | 1.04                | 17.8                  | 18.84      | 0.08     | 2.00      | Pass    |
|                  |              |            | RB75#0                | 0.11                | 17.8                  | 17.91      | 0.06     | 2.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 0.87                | 17.8                  | 18.67      | 0.07     | 2.00      | Pass    |
|                  |              |            | RB75#0                | -0.21               | 17.8                  | 17.59      | 0.06     | 2.00      | Pass    |
|                  | MCH          | QPSK       | RB1#0                 | 1.19                | 17.8                  | 18.99      | 0.08     | 2.00      | Pass    |
|                  |              |            | RB75#0                | 0.34                | 17.8                  | 18.14      | 0.07     | 2.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 0.29                | 17.8                  | 18.09      | 0.06     | 2.00      | Pass    |
|                  |              |            | RB75#0                | -0.48               | 17.8                  | 17.32      | 0.05     | 2.00      | Pass    |
|                  | HCH          | QPSK       | RB1#0                 | 0.67                | 17.8                  | 18.47      | 0.07     | 2.00      | Pass    |
|                  |              |            | RB75#0                | 0.33                | 17.8                  | 18.13      | 0.07     | 2.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 1.1                 | 17.8                  | 18.90      | 0.08     | 2.00      | Pass    |
|                  |              |            | RB75#0                | 0.71                | 17.8                  | 18.51      | 0.07     | 2.00      | Pass    |
| 20 MHz           | LCH          | QPSK       | RB1#0                 | 1.17                | 17.8                  | 18.97      | 0.08     | 2.00      | Pass    |
|                  |              |            | RB100#0               | -0.04               | 17.8                  | 17.76      | 0.06     | 2.00      | Pass    |

| Test BW          | Test Channel | Test Model | Test RB (Size#Offset) | SA Read Value (dBm) | Correction Factor(dB) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|------------------|--------------|------------|-----------------------|---------------------|-----------------------|------------|----------|-----------|---------|
| <b>LTE BAND2</b> |              |            |                       |                     |                       |            |          |           |         |
|                  |              | 16-QAM     | RB1#0                 | 0.49                | 17.8                  | 18.29      | 0.07     | 2.00      | Pass    |
|                  |              |            | RB100#0               | -0.34               | 17.8                  | 17.46      | 0.06     | 2.00      | Pass    |
|                  | MCH          | QPSK       | RB1#0                 | 0.91                | 17.8                  | 18.71      | 0.07     | 2.00      | Pass    |
|                  |              |            | RB100#0               | 0.45                | 17.8                  | 18.25      | 0.07     | 2.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 0.41                | 17.8                  | 18.21      | 0.07     | 2.00      | Pass    |
|                  |              |            | RB100#0               | -0.51               | 17.8                  | 17.29      | 0.05     | 2.00      | Pass    |
|                  | HCH          | QPSK       | RB1#0                 | 0.94                | 17.8                  | 18.74      | 0.07     | 2.00      | Pass    |
|                  |              |            | RB100#0               | 0.53                | 17.8                  | 18.33      | 0.07     | 2.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 1.08                | 17.8                  | 18.88      | 0.08     | 2.00      | Pass    |
|                  |              |            | RB100#0               | 0.36                | 17.8                  | 18.16      | 0.07     | 2.00      | Pass    |

| Test BW          | Test Channel | Test Model | Test RB (Size#Offset) | SA Read Value (dBm) | Correction Factor(dB) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|------------------|--------------|------------|-----------------------|---------------------|-----------------------|------------|----------|-----------|---------|
| <b>LTE BAND4</b> |              |            |                       |                     |                       |            |          |           |         |
| 1.4 MHz          | LCH          | QPSK       | RB1#0                 | 5.36                | 14.4                  | 19.76      | 0.09     | 1.00      | Pass    |
|                  |              |            | RB6#0                 | 4.54                | 14.4                  | 18.94      | 0.08     | 1.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 5.14                | 14.4                  | 19.54      | 0.09     | 1.00      | Pass    |
|                  |              |            | RB6#0                 | 4.23                | 14.4                  | 18.63      | 0.07     | 1.00      | Pass    |
|                  | MCH          | QPSK       | RB1#0                 | 5.28                | 14.4                  | 19.68      | 0.09     | 1.00      | Pass    |
|                  |              |            | RB6#0                 | 4.65                | 14.4                  | 19.05      | 0.08     | 1.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 5.11                | 14.4                  | 19.51      | 0.09     | 1.00      | Pass    |
|                  |              |            | RB6#0                 | 4.13                | 14.4                  | 18.53      | 0.07     | 1.00      | Pass    |
|                  | HCH          | QPSK       | RB1#0                 | 5.27                | 14.4                  | 19.67      | 0.09     | 1.00      | Pass    |
|                  |              |            | RB6#0                 | 4.08                | 14.4                  | 18.48      | 0.07     | 1.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 5.22                | 14.4                  | 19.62      | 0.09     | 1.00      | Pass    |
|                  |              |            | RB6#0                 | 4.12                | 14.4                  | 18.52      | 0.07     | 1.00      | Pass    |
| 3 MHz            | LCH          | QPSK       | RB1#0                 | 5.54                | 14.4                  | 19.94      | 0.10     | 1.00      | Pass    |
|                  |              |            | RB15#0                | 4.49                | 14.4                  | 18.89      | 0.08     | 1.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 5.15                | 14.4                  | 19.55      | 0.09     | 1.00      | Pass    |
|                  |              |            | RB15#0                | 4.5                 | 14.4                  | 18.90      | 0.08     | 1.00      | Pass    |
|                  | MCH          | QPSK       | RB1#0                 | 5.43                | 14.4                  | 19.83      | 0.10     | 1.00      | Pass    |
|                  |              |            | RB15#0                | 4.95                | 14.4                  | 19.35      | 0.09     | 1.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 5.05                | 14.4                  | 19.45      | 0.09     | 1.00      | Pass    |
|                  |              |            | RB15#0                | 4.08                | 14.4                  | 18.48      | 0.07     | 1.00      | Pass    |
|                  | HCH          | QPSK       | RB1#0                 | 5.44                | 14.4                  | 19.84      | 0.10     | 1.00      | Pass    |
|                  |              |            | RB15#0                | 4.32                | 14.4                  | 18.72      | 0.07     | 1.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 5.16                | 14.4                  | 19.56      | 0.09     | 1.00      | Pass    |
|                  |              |            | RB15#0                | 4.14                | 14.4                  | 18.54      | 0.07     | 1.00      | Pass    |
| 5 MHz            | LCH          | QPSK       | RB1#0                 | 5.76                | 14.4                  | 20.16      | 0.10     | 1.00      | Pass    |
|                  |              |            | RB25#0                | 4.81                | 14.4                  | 19.21      | 0.08     | 1.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 5.59                | 14.4                  | 19.99      | 0.10     | 1.00      | Pass    |
|                  |              |            | RB25#0                | 4.13                | 14.4                  | 18.53      | 0.07     | 1.00      | Pass    |
|                  | MCH          | QPSK       | RB1#0                 | 5.23                | 14.4                  | 19.63      | 0.09     | 1.00      | Pass    |
|                  |              |            | RB25#0                | 4.73                | 14.4                  | 19.13      | 0.08     | 1.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 5.37                | 14.4                  | 19.77      | 0.09     | 1.00      | Pass    |
|                  |              |            | RB25#0                | 4.42                | 14.4                  | 18.82      | 0.08     | 1.00      | Pass    |
|                  | HCH          | QPSK       | RB1#0                 | 5.23                | 14.4                  | 19.63      | 0.09     | 1.00      | Pass    |
|                  |              |            | RB25#0                | 3.98                | 14.4                  | 18.38      | 0.07     | 1.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 5.23                | 14.4                  | 19.63      | 0.09     | 1.00      | Pass    |
|                  |              |            | RB25#0                | 4.59                | 14.4                  | 18.99      | 0.08     | 1.00      | Pass    |
| 10 MHz           | LCH          | QPSK       | RB1#0                 | 5.55                | 14.4                  | 19.95      | 0.10     | 1.00      | Pass    |
|                  |              |            | RB50#0                | 4.86                | 14.4                  | 19.26      | 0.08     | 1.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 5.52                | 14.4                  | 19.92      | 0.10     | 1.00      | Pass    |
|                  |              |            | RB50#0                | 4.49                | 14.4                  | 18.89      | 0.08     | 1.00      | Pass    |

| Test BW          | Test Channel | Test Model | Test RB (Size#Offset) | SA Read Value (dBm) | Correction Factor(dB) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|------------------|--------------|------------|-----------------------|---------------------|-----------------------|------------|----------|-----------|---------|
| <b>LTE BAND4</b> |              |            |                       |                     |                       |            |          |           |         |
|                  | MCH          | QPSK       | RB1#0                 | 5.7                 | 14.4                  | 20.10      | 0.10     | 1.00      | Pass    |
|                  |              |            | RB50#0                | 4.72                | 14.4                  | 19.12      | 0.08     | 1.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 5.1                 | 14.4                  | 19.50      | 0.09     | 1.00      | Pass    |
|                  |              |            | RB50#0                | 4.29                | 14.4                  | 18.69      | 0.07     | 1.00      | Pass    |
|                  | HCH          | QPSK       | RB1#0                 | 5.24                | 14.4                  | 19.64      | 0.09     | 1.00      | Pass    |
|                  |              |            | RB50#0                | 4.51                | 14.4                  | 18.91      | 0.08     | 1.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 5.66                | 14.4                  | 20.06      | 0.10     | 1.00      | Pass    |
|                  |              |            | RB50#0                | 4.21                | 14.4                  | 18.61      | 0.07     | 1.00      | Pass    |
| 15 MHz           | LCH          | QPSK       | RB1#0                 | 5.31                | 14.4                  | 19.71      | 0.09     | 1.00      | Pass    |
|                  |              |            | RB75#0                | 4.96                | 14.4                  | 19.36      | 0.09     | 1.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 5.11                | 14.4                  | 19.51      | 0.09     | 1.00      | Pass    |
|                  |              |            | RB75#0                | 4.27                | 14.4                  | 18.67      | 0.07     | 1.00      | Pass    |
|                  | MCH          | QPSK       | RB1#0                 | 5.53                | 14.4                  | 19.93      | 0.10     | 1.00      | Pass    |
|                  |              |            | RB75#0                | 4.84                | 14.4                  | 19.24      | 0.08     | 1.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 4.98                | 14.4                  | 19.38      | 0.09     | 1.00      | Pass    |
|                  |              |            | RB75#0                | 4.23                | 14.4                  | 18.63      | 0.07     | 1.00      | Pass    |
|                  | HCH          | QPSK       | RB1#0                 | 5.38                | 14.4                  | 19.78      | 0.10     | 1.00      | Pass    |
|                  |              |            | RB75#0                | 4.48                | 14.4                  | 18.88      | 0.08     | 1.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 5.39                | 14.4                  | 19.79      | 0.10     | 1.00      | Pass    |
|                  |              |            | RB75#0                | 4.21                | 14.4                  | 18.61      | 0.07     | 1.00      | Pass    |
| 20 MHz           | LCH          | QPSK       | RB1#0                 | 5.49                | 14.4                  | 19.89      | 0.10     | 1.00      | Pass    |
|                  |              |            | RB100#0               | 4.63                | 14.4                  | 19.03      | 0.08     | 1.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 5.3                 | 14.4                  | 19.70      | 0.09     | 1.00      | Pass    |
|                  |              |            | RB100#0               | 4.62                | 14.4                  | 19.02      | 0.08     | 1.00      | Pass    |
|                  | MCH          | QPSK       | RB1#0                 | 5.2                 | 14.4                  | 19.60      | 0.09     | 1.00      | Pass    |
|                  |              |            | RB100#0               | 4.67                | 14.4                  | 19.07      | 0.08     | 1.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 5.21                | 14.4                  | 19.61      | 0.09     | 1.00      | Pass    |
|                  |              |            | RB100#0               | 4.12                | 14.4                  | 18.52      | 0.07     | 1.00      | Pass    |
|                  | HCH          | QPSK       | RB1#0                 | 5.51                | 14.4                  | 19.91      | 0.10     | 1.00      | Pass    |
|                  |              |            | RB100#0               | 4.29                | 14.4                  | 18.69      | 0.07     | 1.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 5.42                | 14.4                  | 19.82      | 0.10     | 1.00      | Pass    |
|                  |              |            | RB100#0               | 4.45                | 14.4                  | 18.85      | 0.08     | 1.00      | Pass    |

| Test BW          | Test Channel | Test Model | Test RB (Size#Offset) | SA Read Value (dBm) | Correction Factor(dB) | ERP (dBm) | ERP (W) | Limit (W) | Verdict |
|------------------|--------------|------------|-----------------------|---------------------|-----------------------|-----------|---------|-----------|---------|
| <b>LTE BAND5</b> |              |            |                       |                     |                       |           |         |           |         |
| 1.4 MHz          | LCH          | QPSK       | RB1#0                 | 8.09                | 9.83                  | 17.92     | 0.06    | 7.00      | Pass    |
|                  |              |            | RB6#0                 | 7.14                | 9.83                  | 16.97     | 0.05    | 7.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 7.9                 | 9.83                  | 17.73     | 0.06    | 7.00      | Pass    |
|                  |              |            | RB6#0                 | 7.27                | 9.83                  | 17.10     | 0.05    | 7.00      | Pass    |
|                  | MCH          | QPSK       | RB1#0                 | 7.68                | 9.83                  | 17.51     | 0.06    | 7.00      | Pass    |
|                  |              |            | RB6#0                 | 7.06                | 9.83                  | 16.89     | 0.05    | 7.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 7.12                | 9.83                  | 16.95     | 0.05    | 7.00      | Pass    |
|                  |              |            | RB6#0                 | 7.85                | 9.83                  | 17.68     | 0.06    | 7.00      | Pass    |
|                  | HCH          | QPSK       | RB1#0                 | 8.22                | 9.83                  | 18.05     | 0.06    | 7.00      | Pass    |
|                  |              |            | RB6#0                 | 7.3                 | 9.83                  | 17.13     | 0.05    | 7.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 7.94                | 9.83                  | 17.77     | 0.06    | 7.00      | Pass    |
|                  |              |            | RB6#0                 | 7.53                | 9.83                  | 17.36     | 0.05    | 7.00      | Pass    |
| 3 MHz            | LCH          | QPSK       | RB1#0                 | 8.13                | 9.83                  | 17.96     | 0.06    | 7.00      | Pass    |
|                  |              |            | RB15#0                | 7.37                | 9.83                  | 17.20     | 0.05    | 7.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 7.73                | 9.83                  | 17.56     | 0.06    | 7.00      | Pass    |
|                  |              |            | RB15#0                | 7.52                | 9.83                  | 17.35     | 0.05    | 7.00      | Pass    |
|                  | MCH          | QPSK       | RB1#0                 | 8.14                | 9.83                  | 17.97     | 0.06    | 7.00      | Pass    |
|                  |              |            | RB15#0                | 7.07                | 9.83                  | 16.90     | 0.05    | 7.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 7.18                | 9.83                  | 17.01     | 0.05    | 7.00      | Pass    |
|                  |              |            | RB15#0                | 7.83                | 9.83                  | 17.66     | 0.06    | 7.00      | Pass    |
|                  | HCH          | QPSK       | RB1#0                 | 7.76                | 9.83                  | 17.59     | 0.06    | 7.00      | Pass    |
|                  |              |            | RB15#0                | 7.27                | 9.83                  | 17.10     | 0.05    | 7.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 8.11                | 9.83                  | 17.94     | 0.06    | 7.00      | Pass    |
|                  |              |            | RB15#0                | 7.57                | 9.83                  | 17.40     | 0.05    | 7.00      | Pass    |
| 5 MHz            | LCH          | QPSK       | RB1#0                 | 7.93                | 9.83                  | 17.76     | 0.06    | 7.00      | Pass    |
|                  |              |            | RB25#0                | 7.1                 | 9.83                  | 16.93     | 0.05    | 7.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 7.71                | 9.83                  | 17.54     | 0.06    | 7.00      | Pass    |
|                  |              |            | RB25#0                | 7.34                | 9.83                  | 17.17     | 0.05    | 7.00      | Pass    |
|                  | MCH          | QPSK       | RB1#0                 | 7.69                | 9.83                  | 17.52     | 0.06    | 7.00      | Pass    |
|                  |              |            | RB25#0                | 7.34                | 9.83                  | 17.17     | 0.05    | 7.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 7.36                | 9.83                  | 17.19     | 0.05    | 7.00      | Pass    |
|                  |              |            | RB25#0                | 7.4                 | 9.83                  | 17.23     | 0.05    | 7.00      | Pass    |
|                  | HCH          | QPSK       | RB1#0                 | 7.74                | 9.83                  | 17.57     | 0.06    | 7.00      | Pass    |
|                  |              |            | RB25#0                | 7.64                | 9.83                  | 17.47     | 0.06    | 7.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 8.14                | 9.83                  | 17.97     | 0.06    | 7.00      | Pass    |
|                  |              |            | RB25#0                | 7.44                | 9.83                  | 17.27     | 0.05    | 7.00      | Pass    |
| 10 MHz           | LCH          | QPSK       | RB1#0                 | 7.97                | 9.83                  | 17.80     | 0.06    | 7.00      | Pass    |
|                  |              |            | RB50#0                | 7.3                 | 9.83                  | 17.13     | 0.05    | 7.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 8.05                | 9.83                  | 17.88     | 0.06    | 7.00      | Pass    |

| Test BW          | Test Channel | Test Model | Test RB (Size#Offset) | SA Read Value (dBm) | Correction Factor(dB) | ERP (dBm) | ERP (W) | Limit (W) | Verdict |
|------------------|--------------|------------|-----------------------|---------------------|-----------------------|-----------|---------|-----------|---------|
| <b>LTE BAND5</b> |              |            |                       |                     |                       |           |         |           |         |
|                  | MCH          | QPSK       | RB50#0                | 7.46                | 9.83                  | 17.29     | 0.05    | 7.00      | Pass    |
|                  |              |            | RB1#0                 | 8.21                | 9.83                  | 18.04     | 0.06    | 7.00      | Pass    |
|                  |              | 16-QAM     | RB50#0                | 7.29                | 9.83                  | 17.12     | 0.05    | 7.00      | Pass    |
|                  |              |            | RB1#0                 | 7.3                 | 9.83                  | 17.13     | 0.05    | 7.00      | Pass    |
|                  | HCH          | QPSK       | RB50#0                | 7.76                | 9.83                  | 17.59     | 0.06    | 7.00      | Pass    |
|                  |              |            | RB1#0                 | 7.91                | 9.83                  | 17.74     | 0.06    | 7.00      | Pass    |
|                  |              | 16-QAM     | RB50#0                | 7.23                | 9.83                  | 17.06     | 0.05    | 7.00      | Pass    |
|                  |              |            | RB1#0                 | 7.7                 | 9.83                  | 17.53     | 0.06    | 7.00      | Pass    |
|                  |              |            | RB50#0                | 7.5                 | 9.83                  | 17.33     | 0.05    | 7.00      | Pass    |

| Test BW          | Test Channel | Test Model | Test RB (Size#Offset) | SA Read Value (dBm) | Correction Factor(dB) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|------------------|--------------|------------|-----------------------|---------------------|-----------------------|------------|----------|-----------|---------|
| <b>LTE BAND7</b> |              |            |                       |                     |                       |            |          |           |         |
| 5 MHz            | LCH          | QPSK       | RB1#0                 | 1.19                | 19.5                  | 20.69      | 0.12     | 2.00      | Pass    |
|                  |              |            | RB25#0                | 0.03                | 19.5                  | 19.53      | 0.09     | 2.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 0.87                | 19.5                  | 20.37      | 0.11     | 2.00      | Pass    |
|                  |              |            | RB25#0                | -0.16               | 19.5                  | 19.34      | 0.09     | 2.00      | Pass    |
|                  | MCH          | QPSK       | RB1#0                 | 1                   | 19.5                  | 20.50      | 0.11     | 2.00      | Pass    |
|                  |              |            | RB25#0                | 0.1                 | 19.5                  | 19.60      | 0.09     | 2.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 0.44                | 19.5                  | 19.94      | 0.10     | 2.00      | Pass    |
|                  |              |            | RB25#0                | -0.5                | 19.5                  | 19.00      | 0.08     | 2.00      | Pass    |
|                  | HCH          | QPSK       | RB1#0                 | 0.84                | 19.5                  | 20.34      | 0.11     | 2.00      | Pass    |
|                  |              |            | RB25#0                | 0.35                | 19.5                  | 19.85      | 0.10     | 2.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 1.21                | 19.5                  | 20.71      | 0.12     | 2.00      | Pass    |
|                  |              |            | RB25#0                | 0.46                | 19.5                  | 19.96      | 0.10     | 2.00      | Pass    |
| 10 MHz           | LCH          | QPSK       | RB1#0                 | 1.01                | 19.5                  | 20.51      | 0.11     | 2.00      | Pass    |
|                  |              |            | RB50#0                | 0.09                | 19.5                  | 19.59      | 0.09     | 2.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 0.97                | 19.5                  | 20.47      | 0.11     | 2.00      | Pass    |
|                  |              |            | RB50#0                | 0.28                | 19.5                  | 19.78      | 0.10     | 2.00      | Pass    |
|                  | MCH          | QPSK       | RB1#0                 | 0.66                | 19.5                  | 20.16      | 0.10     | 2.00      | Pass    |
|                  |              |            | RB50#0                | 0.21                | 19.5                  | 19.71      | 0.09     | 2.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 0.09                | 19.5                  | 19.59      | 0.09     | 2.00      | Pass    |
|                  |              |            | RB50#0                | -0.58               | 19.5                  | 18.92      | 0.08     | 2.00      | Pass    |
|                  | HCH          | QPSK       | RB1#0                 | 0.77                | 19.5                  | 20.27      | 0.11     | 2.00      | Pass    |
|                  |              |            | RB50#0                | 0.48                | 19.5                  | 19.98      | 0.10     | 2.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 1.03                | 19.5                  | 20.53      | 0.11     | 2.00      | Pass    |
|                  |              |            | RB50#0                | 0.55                | 19.5                  | 20.05      | 0.10     | 2.00      | Pass    |
| 15 MHz           | LCH          | QPSK       | RB1#0                 | 1.21                | 19.5                  | 20.71      | 0.12     | 2.00      | Pass    |
|                  |              |            | RB75#0                | 0.41                | 19.5                  | 19.91      | 0.10     | 2.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 0.65                | 19.5                  | 20.15      | 0.10     | 2.00      | Pass    |
|                  |              |            | RB75#0                | 0.24                | 19.5                  | 19.74      | 0.09     | 2.00      | Pass    |
|                  | MCH          | QPSK       | RB1#0                 | 0.99                | 19.5                  | 20.49      | 0.11     | 2.00      | Pass    |
|                  |              |            | RB75#0                | 0.05                | 19.5                  | 19.55      | 0.09     | 2.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 0.28                | 19.5                  | 19.78      | 0.10     | 2.00      | Pass    |
|                  |              |            | RB75#0                | -0.35               | 19.5                  | 19.15      | 0.08     | 2.00      | Pass    |
|                  | HCH          | QPSK       | RB1#0                 | 1.2                 | 19.5                  | 20.70      | 0.12     | 2.00      | Pass    |
|                  |              |            | RB75#0                | 0.56                | 19.5                  | 20.06      | 0.10     | 2.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 1.15                | 19.5                  | 20.65      | 0.12     | 2.00      | Pass    |
|                  |              |            | RB75#0                | 0.52                | 19.5                  | 20.02      | 0.10     | 2.00      | Pass    |
| 20 MHz           | LCH          | QPSK       | RB1#0                 | 1.03                | 19.5                  | 20.53      | 0.11     | 2.00      | Pass    |
|                  |              |            | RB100#0               | 0.38                | 19.5                  | 19.88      | 0.10     | 2.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 0.8                 | 19.5                  | 20.30      | 0.11     | 2.00      | Pass    |

| Test BW          | Test Channel | Test Model | Test RB (Size#Offset) | SA Read Value (dBm) | Correction Factor(dB) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|------------------|--------------|------------|-----------------------|---------------------|-----------------------|------------|----------|-----------|---------|
| <b>LTE BAND7</b> |              |            |                       |                     |                       |            |          |           |         |
|                  | MCH          | QPSK       | RB100#0               | -0.13               | 19.5                  | 19.37      | 0.09     | 2.00      | Pass    |
|                  |              |            | RB1#0                 | 1.06                | 19.5                  | 20.56      | 0.11     | 2.00      | Pass    |
|                  |              | 16-QAM     | RB100#0               | 0.4                 | 19.5                  | 19.90      | 0.10     | 2.00      | Pass    |
|                  |              |            | RB1#0                 | 0.06                | 19.5                  | 19.56      | 0.09     | 2.00      | Pass    |
|                  | HCH          | QPSK       | RB100#0               | -0.46               | 19.5                  | 19.04      | 0.08     | 2.00      | Pass    |
|                  |              |            | RB1#0                 | 0.94                | 19.5                  | 20.44      | 0.11     | 2.00      | Pass    |
|                  |              | 16-QAM     | RB100#0               | 0.2                 | 19.5                  | 19.70      | 0.09     | 2.00      | Pass    |
|                  |              |            | RB1#0                 | 0.76                | 19.5                  | 20.26      | 0.11     | 2.00      | Pass    |
|                  |              | 16-QAM     | RB100#0               | 0.56                | 19.5                  | 20.06      | 0.10     | 2.00      | Pass    |
|                  |              |            | RB1#0                 | 0.56                | 19.5                  | 20.06      | 0.10     | 2.00      | Pass    |

| Test BW           | Test Channel | Test Model | Test RB (Size#Offset) | SA Read Value (dBm) | Correction Factor(dB) | ERP (dBm) | ERP (W) | Limit (W) | Verdict |
|-------------------|--------------|------------|-----------------------|---------------------|-----------------------|-----------|---------|-----------|---------|
| <b>LTE BAND17</b> |              |            |                       |                     |                       |           |         |           |         |
| 5 MHz             | LCH          | QPSK       | RB1#0                 | 10.09               | 8.1                   | 18.19     | 0.07    | 3.00      | Pass    |
|                   |              |            | RB25#0                | 9.2                 | 8.1                   | 17.30     | 0.05    | 3.00      | Pass    |
|                   |              | 16-QAM     | RB1#0                 | 9.09                | 8.1                   | 17.19     | 0.05    | 3.00      | Pass    |
|                   |              |            | RB25#0                | 8.44                | 8.1                   | 16.54     | 0.05    | 3.00      | Pass    |
|                   | MCH          | QPSK       | RB1#0                 | 9.68                | 8.1                   | 17.78     | 0.06    | 3.00      | Pass    |
|                   |              |            | RB25#0                | 9.4                 | 8.1                   | 17.50     | 0.06    | 3.00      | Pass    |
|                   |              | 16-QAM     | RB1#0                 | 8.16                | 8.1                   | 16.26     | 0.04    | 3.00      | Pass    |
|                   |              |            | RB25#0                | 8.54                | 8.1                   | 16.64     | 0.05    | 3.00      | Pass    |
|                   | HCH          | QPSK       | RB1#0                 | 9.79                | 8.1                   | 17.89     | 0.06    | 3.00      | Pass    |
|                   |              |            | RB25#0                | 9.5                 | 8.1                   | 17.60     | 0.06    | 3.00      | Pass    |
|                   |              | 16-QAM     | RB1#0                 | 9.11                | 8.1                   | 17.21     | 0.05    | 3.00      | Pass    |
|                   |              |            | RB25#0                | 8.59                | 8.1                   | 16.69     | 0.05    | 3.00      | Pass    |
| 10 MHz            | LCH          | QPSK       | RB1#0                 | 10.02               | 8.1                   | 18.12     | 0.06    | 3.00      | Pass    |
|                   |              |            | RB50#0                | 9.07                | 8.1                   | 17.17     | 0.05    | 3.00      | Pass    |
|                   |              | 16-QAM     | RB1#0                 | 8.71                | 8.1                   | 16.81     | 0.05    | 3.00      | Pass    |
|                   |              |            | RB50#0                | 8.27                | 8.1                   | 16.37     | 0.04    | 3.00      | Pass    |
|                   | MCH          | QPSK       | RB1#0                 | 9.92                | 8.1                   | 18.02     | 0.06    | 3.00      | Pass    |
|                   |              |            | RB50#0                | 9.01                | 8.1                   | 17.11     | 0.05    | 3.00      | Pass    |
|                   |              | 16-QAM     | RB1#0                 | 8.38                | 8.1                   | 16.48     | 0.04    | 3.00      | Pass    |
|                   |              |            | RB50#0                | 8.65                | 8.1                   | 16.75     | 0.05    | 3.00      | Pass    |
|                   | HCH          | QPSK       | RB1#0                 | 9.96                | 8.1                   | 18.06     | 0.06    | 3.00      | Pass    |
|                   |              |            | RB50#0                | 9.3                 | 8.1                   | 17.40     | 0.05    | 3.00      | Pass    |
|                   |              | 16-QAM     | RB1#0                 | 8.83                | 8.1                   | 16.93     | 0.05    | 3.00      | Pass    |
|                   |              |            | RB50#0                | 8.69                | 8.1                   | 16.79     | 0.05    | 3.00      | Pass    |



| Test BW           | Test Channel | Test Model | Test RB (Size#Offset) | SA Read Value (dBm) | Correction Factor(dB) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-------------------|--------------|------------|-----------------------|---------------------|-----------------------|------------|----------|-----------|---------|
| <b>LTE BAND41</b> |              |            |                       |                     |                       |            |          |           |         |
| 5 MHz             | LCH          | QPSK       | RB1#0                 | 1.13                | 19.5                  | 20.63      | 0.12     | 2.00      | Pass    |
|                   |              |            | RB25#0                | 0.54                | 19.5                  | 20.04      | 0.10     | 2.00      | Pass    |
|                   |              | 16-QAM     | RB1#0                 | 0.97                | 19.5                  | 20.47      | 0.11     | 2.00      | Pass    |
|                   |              |            | RB25#0                | -0.15               | 19.5                  | 19.35      | 0.09     | 2.00      | Pass    |
|                   | MCH          | QPSK       | RB1#0                 | 0.83                | 19.5                  | 20.33      | 0.11     | 2.00      | Pass    |
|                   |              |            | RB25#0                | 0.06                | 19.5                  | 19.56      | 0.09     | 2.00      | Pass    |
|                   |              | 16-QAM     | RB1#0                 | 0.24                | 19.5                  | 19.74      | 0.09     | 2.00      | Pass    |
|                   |              |            | RB25#0                | -0.44               | 19.5                  | 19.06      | 0.08     | 2.00      | Pass    |
|                   | HCH          | QPSK       | RB1#0                 | 0.67                | 19.5                  | 20.17      | 0.10     | 2.00      | Pass    |
|                   |              |            | RB25#0                | 0.32                | 19.5                  | 19.82      | 0.10     | 2.00      | Pass    |
|                   |              | 16-QAM     | RB1#0                 | 0.82                | 19.5                  | 20.32      | 0.11     | 2.00      | Pass    |
|                   |              |            | RB25#0                | 0.78                | 19.5                  | 20.28      | 0.11     | 2.00      | Pass    |
| 10 MHz            | LCH          | QPSK       | RB1#0                 | 1.12                | 19.5                  | 20.62      | 0.12     | 2.00      | Pass    |
|                   |              |            | RB50#0                | 0.32                | 19.5                  | 19.82      | 0.10     | 2.00      | Pass    |
|                   |              | 16-QAM     | RB1#0                 | 0.97                | 19.5                  | 20.47      | 0.11     | 2.00      | Pass    |
|                   |              |            | RB50#0                | 0.09                | 19.5                  | 19.59      | 0.09     | 2.00      | Pass    |
|                   | MCH          | QPSK       | RB1#0                 | 0.69                | 19.5                  | 20.19      | 0.10     | 2.00      | Pass    |
|                   |              |            | RB50#0                | 0.4                 | 19.5                  | 19.90      | 0.10     | 2.00      | Pass    |
|                   |              | 16-QAM     | RB1#0                 | 0.36                | 19.5                  | 19.86      | 0.10     | 2.00      | Pass    |
|                   |              |            | RB50#0                | -0.47               | 19.5                  | 19.03      | 0.08     | 2.00      | Pass    |
|                   | HCH          | QPSK       | RB1#0                 | 1.19                | 19.5                  | 20.69      | 0.12     | 2.00      | Pass    |
|                   |              |            | RB50#0                | 0.19                | 19.5                  | 19.69      | 0.09     | 2.00      | Pass    |
|                   |              | 16-QAM     | RB1#0                 | 0.78                | 19.5                  | 20.28      | 0.11     | 2.00      | Pass    |
|                   |              |            | RB50#0                | 0.6                 | 19.5                  | 20.10      | 0.10     | 2.00      | Pass    |
| 15 MHz            | LCH          | QPSK       | RB1#0                 | 0.86                | 19.5                  | 20.36      | 0.11     | 2.00      | Pass    |
|                   |              |            | RB75#0                | 0.14                | 19.5                  | 19.64      | 0.09     | 2.00      | Pass    |
|                   |              | 16-QAM     | RB1#0                 | 0.59                | 19.5                  | 20.09      | 0.10     | 2.00      | Pass    |
|                   |              |            | RB75#0                | 0.05                | 19.5                  | 19.55      | 0.09     | 2.00      | Pass    |
|                   | MCH          | QPSK       | RB1#0                 | 0.81                | 19.5                  | 20.31      | 0.11     | 2.00      | Pass    |
|                   |              |            | RB75#0                | 0.14                | 19.5                  | 19.64      | 0.09     | 2.00      | Pass    |
|                   |              | 16-QAM     | RB1#0                 | 0.51                | 19.5                  | 20.01      | 0.10     | 2.00      | Pass    |
|                   |              |            | RB75#0                | -0.34               | 19.5                  | 19.16      | 0.08     | 2.00      | Pass    |
|                   | HCH          | QPSK       | RB1#0                 | 1.01                | 19.5                  | 20.51      | 0.11     | 2.00      | Pass    |
|                   |              |            | RB75#0                | 0.64                | 19.5                  | 20.14      | 0.10     | 2.00      | Pass    |
|                   |              | 16-QAM     | RB1#0                 | 0.72                | 19.5                  | 20.22      | 0.11     | 2.00      | Pass    |
|                   |              |            | RB75#0                | 0.41                | 19.5                  | 19.91      | 0.10     | 2.00      | Pass    |
| 20 MHz            | LCH          | QPSK       | RB1#0                 | 1.19                | 19.5                  | 20.69      | 0.12     | 2.00      | Pass    |
|                   |              |            | RB100#0               | 0.31                | 19.5                  | 19.81      | 0.10     | 2.00      | Pass    |
|                   |              | 16-QAM     | RB1#0                 | 0.59                | 19.5                  | 20.09      | 0.10     | 2.00      | Pass    |

| Test BW           | Test Channel | Test Model | Test RB (Size#Offset) | SA Read Value (dBm) | Correction Factor(dB) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-------------------|--------------|------------|-----------------------|---------------------|-----------------------|------------|----------|-----------|---------|
| <b>LTE BAND41</b> |              |            |                       |                     |                       |            |          |           |         |
|                   | MCH          | QPSK       | RB100#0               | 0.04                | 19.5                  | 19.54      | 0.09     | 2.00      | Pass    |
|                   |              |            | RB1#0                 | 0.86                | 19.5                  | 20.36      | 0.11     | 2.00      | Pass    |
|                   |              | 16-QAM     | RB100#0               | 0.22                | 19.5                  | 19.72      | 0.09     | 2.00      | Pass    |
|                   |              |            | RB1#0                 | 0.46                | 19.5                  | 19.96      | 0.10     | 2.00      | Pass    |
|                   | HCH          | QPSK       | RB100#0               | -0.62               | 19.5                  | 18.88      | 0.08     | 2.00      | Pass    |
|                   |              |            | RB1#0                 | 0.75                | 19.5                  | 20.25      | 0.11     | 2.00      | Pass    |
|                   |              | 16-QAM     | RB100#0               | 0.68                | 19.5                  | 20.18      | 0.10     | 2.00      | Pass    |
|                   |              |            | RB1#0                 | 1.09                | 19.5                  | 20.59      | 0.11     | 2.00      | Pass    |
|                   |              |            | RB100#0               | 0.35                | 19.5                  | 19.85      | 0.10     | 2.00      | Pass    |

## A.2 Peak to Average Ratio

Note 1: For average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB. For GSM, GPRS and EGPRS, there are peak power to demonstrate compliance, PAR measurements are not required.

Note 2: Test plots please refer to the document "Annex No.:BL-EC17C0360-501 Data Part 1.pdf".

### WCDMA Mode Test Data

| Test Band | Test Channel | Peak to Average Ratio (dB) | Limit (dB) | Refer to Plot <sup>Note2</sup> | Verdict |
|-----------|--------------|----------------------------|------------|--------------------------------|---------|
| Band 2    | LCH          | 3.30                       | 13         | 1.1                            | Pass    |
|           | MCH          | 3.04                       | 13         | 1.2                            | Pass    |
|           | HCH          | 3.04                       | 13         | 1.3                            | Pass    |

### LTE Mode Test Data

| Test Band  | Test Bandwidth | Test Channel | Test Model | Test RB (Size#Offset) | Peak to Average Ratio (dB) | Limit (dB) | Refer to Plot <sup>Note2</sup> | Verdict |
|------------|----------------|--------------|------------|-----------------------|----------------------------|------------|--------------------------------|---------|
| LTE Band 2 | 20 MHz         | LCH          | QPSK       | RB1#0                 | 4.49                       | 13         | 2.1                            | Pass    |
|            |                |              |            | RB100#0               | 4.75                       | 13         | 2.2                            | Pass    |
|            |                |              | 16-QAM     | RB1#0                 | 5.36                       | 13         | 2.3                            | Pass    |
|            |                |              |            | RB100#0               | 5.80                       | 13         | 2.4                            | Pass    |
|            |                | MCH          | QPSK       | RB1#0                 | 4.09                       | 13         | 2.5                            | Pass    |
|            |                |              |            | RB100#0               | 4.49                       | 13         | 2.6                            | Pass    |
|            |                |              | 16-QAM     | RB1#0                 | 4.99                       | 13         | 2.7                            | Pass    |
|            |                |              |            | RB100#0               | 5.54                       | 13         | 2.8                            | Pass    |
|            |                | HCH          | QPSK       | RB1#0                 | 4.06                       | 13         | 2.9                            | Pass    |
|            |                |              |            | RB100#0               | 4.67                       | 13         | 2.10                           | Pass    |
|            |                |              | 16-QAM     | RB1#0                 | 5.31                       | 13         | 2.11                           | Pass    |
|            |                |              |            | RB100#0               | 5.71                       | 13         | 2.12                           | Pass    |
| LTE Band 4 | 20 MHz         | LCH          | QPSK       | RB1#0                 | 3.91                       | 13         | 3.1                            | Pass    |
|            |                |              |            | RB100#0               | 4.67                       | 13         | 3.2                            | Pass    |
|            |                |              | 16-QAM     | RB1#0                 | 4.67                       | 13         | 3.3                            | Pass    |
|            |                |              |            | RB100#0               | 5.74                       | 13         | 3.4                            | Pass    |
|            |                | MCH          | QPSK       | RB1#0                 | 4.29                       | 13         | 3.5                            | Pass    |
|            |                |              |            | RB100#0               | 4.81                       | 13         | 3.6                            | Pass    |
|            |                |              | 16-QAM     | RB1#0                 | 5.22                       | 13         | 3.7                            | Pass    |
|            |                |              |            | RB100#0               | 5.86                       | 13         | 3.8                            | Pass    |
|            |                | HCH          | QPSK       | RB1#0                 | 4.29                       | 13         | 3.9                            | Pass    |
|            |                |              |            | RB100#0               | 4.58                       | 13         | 3.1                            | Pass    |
|            |                |              | 16-QAM     | RB1#0                 | 5.13                       | 13         | 3.11                           | Pass    |
|            |                |              |            | RB100#0               | 5.65                       | 13         | 3.12                           | Pass    |
| LTE Band 5 | 10 MHz         | LCH          | QPSK       | RB1#0                 | 3.65                       | 13         | 4.1                            | Pass    |
|            |                |              |            | RB50#0                | 4.90                       | 13         | 4.2                            | Pass    |

| Test Band   | Test Bandwidth | Test Channel | Test Model | Test RB (Size#Offset) | Peak to Average Ratio (dB) | Limit (dB) | Refer to Plot <sup>Note2</sup> | Verdict |
|-------------|----------------|--------------|------------|-----------------------|----------------------------|------------|--------------------------------|---------|
|             |                |              | 16-QAM     | RB1#0                 | 4.61                       | 13         | 4.3                            | Pass    |
|             |                |              |            | RB50#0                | 5.83                       | 13         | 4.4                            | Pass    |
|             |                | MCH          | QPSK       | RB1#0                 | 3.59                       | 13         | 4.5                            | Pass    |
|             |                |              |            | RB50#0                | 4.72                       | 13         | 4.6                            | Pass    |
|             |                |              | 16-QAM     | RB1#0                 | 4.55                       | 13         | 4.7                            | Pass    |
|             |                |              |            | RB50#0                | 5.77                       | 13         | 4.8                            | Pass    |
|             |                | HCH          | QPSK       | RB1#0                 | 3.68                       | 13         | 4.9                            | Pass    |
|             |                |              |            | RB50#0                | 4.78                       | 13         | 4.1                            | Pass    |
|             |                |              | 16-QAM     | RB1#0                 | 4.58                       | 13         | 4.11                           | Pass    |
|             |                |              |            | RB50#0                | 5.80                       | 13         | 4.12                           | Pass    |
| LTE Band 7  | 20 MHz         | LCH          | QPSK       | RB1#0                 | 4.03                       | 13         | 5.1                            | Pass    |
|             |                |              |            | RB100#0               | 4.43                       | 13         | 5.2                            | Pass    |
|             |                |              | 16-QAM     | RB1#0                 | 4.75                       | 13         | 5.3                            | Pass    |
|             |                |              |            | RB100#0               | 5.54                       | 13         | 5.4                            | Pass    |
|             |                | MCH          | QPSK       | RB1#0                 | 4.26                       | 13         | 5.5                            | Pass    |
|             |                |              |            | RB100#0               | 4.61                       | 13         | 5.6                            | Pass    |
|             |                |              | 16-QAM     | RB1#0                 | 5.16                       | 13         | 5.7                            | Pass    |
|             |                |              |            | RB100#0               | 5.59                       | 13         | 5.8                            | Pass    |
|             |                | HCH          | QPSK       | RB1#0                 | 4.17                       | 13         | 5.9                            | Pass    |
|             |                |              |            | RB100#0               | 4.67                       | 13         | 5.1                            | Pass    |
|             |                |              | 16-QAM     | RB1#0                 | 5.13                       | 13         | 5.11                           | Pass    |
|             |                |              |            | RB100#0               | 5.65                       | 13         | 5.12                           | Pass    |
| LTE Band 17 | 10 MHz         | LCH          | QPSK       | RB1#0                 | 4.72                       | 13         | 6.1                            | Pass    |
|             |                |              |            | RB50#0                | 5.13                       | 13         | 6.2                            | Pass    |
|             |                |              | 16-QAM     | RB1#0                 | 5.68                       | 13         | 6.3                            | Pass    |
|             |                |              |            | RB50#0                | 6.17                       | 13         | 6.4                            | Pass    |
|             |                | MCH          | QPSK       | RB1#0                 | 4.58                       | 13         | 6.5                            | Pass    |
|             |                |              |            | RB50#0                | 5.13                       | 13         | 6.6                            | Pass    |
|             |                |              | 16-QAM     | RB1#0                 | 5.36                       | 13         | 6.7                            | Pass    |
|             |                |              |            | RB50#0                | 6.17                       | 13         | 6.8                            | Pass    |
|             |                | HCH          | QPSK       | RB1#0                 | 4.70                       | 13         | 6.9                            | Pass    |
|             |                |              |            | RB50#0                | 5.10                       | 13         | 6.1                            | Pass    |
|             |                |              | 16-QAM     | RB1#0                 | 5.80                       | 13         | 6.11                           | Pass    |
|             |                |              |            | RB50#0                | 6.17                       | 13         | 6.12                           | Pass    |
| LTE Band 41 | 20 MHz         | LCH          | QPSK       | RB1#0                 | 8.06                       | 13         | 7.1                            | Pass    |
|             |                |              |            | RB100#0               | 8.52                       | 13         | 7.2                            | Pass    |
|             |                |              | 16-QAM     | RB1#0                 | 9.16                       | 13         | 7.3                            | Pass    |
|             |                |              |            | RB100#0               | 9.10                       | 13         | 7.4                            | Pass    |
|             |                | MCH          | QPSK       | RB1#0                 | 8.41                       | 13         | 7.5                            | Pass    |
|             |                |              |            | RB100#0               | 8.46                       | 13         | 7.6                            | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Model | Test RB (Size#Offset) | Peak to Average Ratio (dB) | Limit (dB) | Refer to Plot <sup>Note2</sup> | Verdict |
|-----------|----------------|--------------|------------|-----------------------|----------------------------|------------|--------------------------------|---------|
|           |                |              | 16-QAM     | RB1#0                 | 8.87                       | 13         | 7.7                            | Pass    |
|           |                |              |            | RB100#0               | 9.01                       | 13         | 7.8                            | Pass    |
|           |                | HCH          | QPSK       | RB1#0                 | 8.00                       | 13         | 7.9                            | Pass    |
|           |                |              |            | RB100#0               | 7.94                       | 13         | 7.1                            | Pass    |
|           |                |              | 16-QAM     | RB1#0                 | 8.75                       | 13         | 7.11                           | Pass    |
|           |                |              |            | RB100#0               | 9.22                       | 13         | 7.12                           | Pass    |

### A.3 Occupied Bandwidth

Note 1: All modes were tested, but only the typical data were reported in this report.

Note 2: Test plots please refer to the document “Annex No.: BL-EC17C0360-501 Data Part 2.pdf”.

#### GSM, CDMA and WCDMA Mode Test Data

| Test Band    | Test Channel | Measured 99%<br>Occupied Bandwidth<br>(MHz) | Measured -26 dB<br>Occupied Bandwidth<br>(MHz) | Refer to<br>Plot <sup>Note2</sup> |
|--------------|--------------|---------------------------------------------|------------------------------------------------|-----------------------------------|
| GSM 850      | LCH          | 0.25                                        | 0.31                                           | 1.1                               |
|              | MCH          | 0.24                                        | 0.31                                           | 1.2                               |
|              | HCH          | 0.24                                        | 0.31                                           | 1.3                               |
| GSM 1900     | LCH          | 0.25                                        | 0.31                                           | 2.1                               |
|              | MCH          | 0.25                                        | 0.31                                           | 2.2                               |
|              | HCH          | 0.25                                        | 0.31                                           | 2.3                               |
| EGPRS 850    | LCH          | 0.24                                        | 0.31                                           | 3.1                               |
|              | MCH          | 0.24                                        | 0.31                                           | 3.2                               |
|              | HCH          | 0.24                                        | 0.30                                           | 3.3                               |
| EGPRS 1900   | LCH          | 0.25                                        | 0.31                                           | 4.1                               |
|              | MCH          | 0.24                                        | 0.31                                           | 4.2                               |
|              | HCH          | 0.25                                        | 0.31                                           | 4.3                               |
| CDMA BC0     | LCH          | 1.28                                        | 1.42                                           | 5.1                               |
|              | MCH          | 1.27                                        | 1.43                                           | 5.2                               |
|              | HCH          | 1.28                                        | 1.44                                           | 5.3                               |
| EVDO BC0     | LCH          | 1.27                                        | 1.43                                           | 6.1                               |
|              | MCH          | 1.27                                        | 1.42                                           | 6.2                               |
|              | HCH          | 1.27                                        | 1.43                                           | 6.3                               |
| WCDMA Band 2 | LCH          | 4.10                                        | 4.66                                           | 7.1                               |
|              | MCH          | 4.11                                        | 4.69                                           | 7.2                               |
|              | HCH          | 4.10                                        | 4.69                                           | 7.3                               |
| WCDMA Band 5 | LCH          | 4.11                                        | 4.68                                           | 8.1                               |
|              | MCH          | 4.10                                        | 4.67                                           | 8.2                               |
|              | HCH          | 4.11                                        | 4.69                                           | 8.3                               |

# LTE Mode Test Data

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset ) | Measured 99% Occupied Bandwidth (MHz) | Measured -26 dB Occupied Bandwidth (MHz) | Refer to Plot <sup>Note2</sup> |
|-----------|----------------|--------------|-----------|------------------------|---------------------------------------|------------------------------------------|--------------------------------|
| Band 2    | 1.4 MHz        | LCH          | QPSK      | RB6#0                  | 1.07                                  | 1.24                                     | 9.1                            |
|           |                |              | 16-QAM    | RB6#0                  | 1.08                                  | 1.25                                     | 9.2                            |
|           |                | MCH          | QPSK      | RB6#0                  | 1.07                                  | 1.24                                     | 9.3                            |
|           |                |              | 16-QAM    | RB6#0                  | 1.07                                  | 1.22                                     | 9.4                            |
|           |                | HCH          | QPSK      | RB6#0                  | 1.08                                  | 1.25                                     | 9.5                            |
|           |                |              | 16-QAM    | RB6#0                  | 1.08                                  | 1.24                                     | 9.6                            |
|           | 3 MHz          | LCH          | QPSK      | RB15#0                 | 2.68                                  | 2.90                                     | 9.7                            |
|           |                |              | 16-QAM    | RB15#0                 | 2.67                                  | 2.91                                     | 9.8                            |
|           |                | MCH          | QPSK      | RB15#0                 | 2.68                                  | 2.91                                     | 9.9                            |
|           |                |              | 16-QAM    | RB15#0                 | 2.67                                  | 2.95                                     | 9.10                           |
|           |                | HCH          | QPSK      | RB15#0                 | 2.68                                  | 2.93                                     | 9.11                           |
|           |                |              | 16-QAM    | RB15#0                 | 2.68                                  | 2.92                                     | 9.12                           |
|           | 5 MHz          | LCH          | QPSK      | RB25#0                 | 4.45                                  | 4.93                                     | 9.13                           |
|           |                |              | 16-QAM    | RB25#0                 | 4.46                                  | 4.90                                     | 9.14                           |
|           |                | MCH          | QPSK      | RB25#0                 | 4.46                                  | 4.90                                     | 9.15                           |
|           |                |              | 16-QAM    | RB25#0                 | 4.46                                  | 4.85                                     | 9.16                           |
|           |                | HCH          | QPSK      | RB25#0                 | 4.45                                  | 4.89                                     | 9.17                           |
|           |                |              | 16-QAM    | RB25#0                 | 4.45                                  | 4.91                                     | 9.18                           |
|           | 10 MHz         | LCH          | QPSK      | RB50#0                 | 8.92                                  | 9.67                                     | 9.19                           |
|           |                |              | 16-QAM    | RB50#0                 | 8.92                                  | 9.61                                     | 9.20                           |
|           |                | MCH          | QPSK      | RB50#0                 | 8.91                                  | 9.64                                     | 9.21                           |
|           |                |              | 16-QAM    | RB50#0                 | 8.91                                  | 9.57                                     | 9.22                           |
|           |                | HCH          | QPSK      | RB50#0                 | 8.91                                  | 9.69                                     | 9.23                           |
|           |                |              | 16-QAM    | RB50#0                 | 8.91                                  | 9.63                                     | 9.24                           |
|           | 15 MHz         | LCH          | QPSK      | RB75#0                 | 13.34                                 | 14.35                                    | 9.25                           |
|           |                |              | 16-QAM    | RB75#0                 | 13.36                                 | 14.40                                    | 9.26                           |
|           |                | MCH          | QPSK      | RB75#0                 | 13.34                                 | 14.32                                    | 9.27                           |
|           |                |              | 16-QAM    | RB75#0                 | 13.35                                 | 14.35                                    | 9.28                           |
|           |                | HCH          | QPSK      | RB75#0                 | 13.36                                 | 14.46                                    | 9.29                           |
|           |                |              | 16-QAM    | RB75#0                 | 13.35                                 | 14.41                                    | 9.3                            |
|           | 20 MHz         | LCH          | QPSK      | RB100#0                | 17.77                                 | 18.92                                    | 9.31                           |
|           |                |              | 16-QAM    | RB100#0                | 17.82                                 | 19.10                                    | 9.32                           |
|           |                | MCH          | QPSK      | RB100#0                | 17.80                                 | 19.02                                    | 9.33                           |
|           |                |              | 16-QAM    | RB100#0                | 17.83                                 | 19.12                                    | 9.34                           |
|           |                | HCH          | QPSK      | RB100#0                | 17.81                                 | 19.26                                    | 9.35                           |
|           |                |              | 16-QAM    | RB100#0                | 17.80                                 | 18.92                                    | 9.36                           |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset ) | Measured 99% Occupied Bandwidth (MHz) | Measured -26 dB Occupied Bandwidth (MHz) | Refer to Plot <sup>Note2</sup> |
|-----------|----------------|--------------|-----------|------------------------|---------------------------------------|------------------------------------------|--------------------------------|
| Band 4    | 1.4 MHz        | LCH          | QPSK      | RB6#0                  | 1.07                                  | 1.24                                     | 10.1                           |
|           |                |              | 16-QAM    | RB6#0                  | 1.07                                  | 1.25                                     | 10.2                           |
|           |                | MCH          | QPSK      | RB6#0                  | 1.07                                  | 1.25                                     | 10.3                           |
|           |                |              | 16-QAM    | RB6#0                  | 1.07                                  | 1.25                                     | 10.4                           |
|           |                | HCH          | QPSK      | RB6#0                  | 1.08                                  | 1.24                                     | 10.5                           |
|           |                |              | 16-QAM    | RB6#0                  | 1.08                                  | 1.24                                     | 10.6                           |
|           | 3 MHz          | LCH          | QPSK      | RB15#0                 | 2.68                                  | 2.94                                     | 10.7                           |
|           |                |              | 16-QAM    | RB15#0                 | 2.67                                  | 2.95                                     | 10.8                           |
|           |                | MCH          | QPSK      | RB15#0                 | 2.68                                  | 2.89                                     | 10.9                           |
|           |                |              | 16-QAM    | RB15#0                 | 2.68                                  | 2.92                                     | 10.10                          |
|           |                | HCH          | QPSK      | RB15#0                 | 2.68                                  | 2.94                                     | 10.11                          |
|           |                |              | 16-QAM    | RB15#0                 | 2.68                                  | 2.92                                     | 10.12                          |
|           | 5 MHz          | LCH          | QPSK      | RB25#0                 | 4.46                                  | 4.88                                     | 10.13                          |
|           |                |              | 16-QAM    | RB25#0                 | 4.46                                  | 4.84                                     | 10.14                          |
|           |                | MCH          | QPSK      | RB25#0                 | 4.46                                  | 4.87                                     | 10.15                          |
|           |                |              | 16-QAM    | RB25#0                 | 4.46                                  | 4.91                                     | 10.16                          |
|           |                | HCH          | QPSK      | RB25#0                 | 4.46                                  | 4.90                                     | 10.17                          |
|           |                |              | 16-QAM    | RB25#0                 | 4.46                                  | 4.94                                     | 10.18                          |
|           | 10 MHz         | LCH          | QPSK      | RB50#0                 | 8.91                                  | 9.64                                     | 10.19                          |
|           |                |              | 16-QAM    | RB50#0                 | 8.91                                  | 9.60                                     | 10.20                          |
|           |                | MCH          | QPSK      | RB50#0                 | 8.92                                  | 9.63                                     | 10.21                          |
|           |                |              | 16-QAM    | RB50#0                 | 8.92                                  | 9.59                                     | 10.22                          |
|           |                | HCH          | QPSK      | RB50#0                 | 8.92                                  | 9.66                                     | 10.23                          |
|           |                |              | 16-QAM    | RB50#0                 | 8.91                                  | 9.61                                     | 10.24                          |
|           | 15 MHz         | LCH          | QPSK      | RB75#0                 | 13.35                                 | 14.36                                    | 10.25                          |
|           |                |              | 16-QAM    | RB75#0                 | 13.34                                 | 14.33                                    | 10.26                          |
|           |                | MCH          | QPSK      | RB75#0                 | 13.34                                 | 14.35                                    | 10.27                          |
|           |                |              | 16-QAM    | RB75#0                 | 13.37                                 | 14.40                                    | 10.28                          |
|           |                | HCH          | QPSK      | RB75#0                 | 13.32                                 | 14.38                                    | 10.29                          |
|           |                |              | 16-QAM    | RB75#0                 | 13.34                                 | 14.40                                    | 10.30                          |
|           | 20 MHz         | LCH          | QPSK      | RB100#0                | 17.81                                 | 18.94                                    | 10.31                          |
|           |                |              | 16-QAM    | RB100#0                | 17.79                                 | 20.39                                    | 10.32                          |
|           |                | MCH          | QPSK      | RB100#0                | 17.81                                 | 19.06                                    | 10.33                          |
|           |                |              | 16-QAM    | RB100#0                | 17.85                                 | 19.21                                    | 10.34                          |
|           |                | HCH          | QPSK      | RB100#0                | 17.78                                 | 19.12                                    | 10.35                          |
|           |                |              | 16-QAM    | RB100#0                | 17.76                                 | 18.98                                    | 10.36                          |



| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset ) | Measured 99% Occupied Bandwidth (MHz) | Measured -26 dB Occupied Bandwidth (MHz) | Refer to Plot <sup>Note2</sup> |
|-----------|----------------|--------------|-----------|------------------------|---------------------------------------|------------------------------------------|--------------------------------|
| Band 5    | 1.4 MHz        | LCH          | QPSK      | RB6#0                  | 1.07                                  | 1.23                                     | 11.1                           |
|           |                |              | 16-QAM    | RB6#0                  | 1.08                                  | 1.25                                     | 11.2                           |
|           |                | MCH          | QPSK      | RB6#0                  | 1.07                                  | 1.23                                     | 11.3                           |
|           |                |              | 16-QAM    | RB6#0                  | 1.08                                  | 1.2                                      | 11.4                           |
|           |                | HCH          | QPSK      | RB6#0                  | 1.08                                  | 1.25                                     | 11.5                           |
|           |                |              | 16-QAM    | RB6#0                  | 1.08                                  | 1.24                                     | 11.6                           |
|           | 3 MHz          | LCH          | QPSK      | RB15#0                 | 2.68                                  | 2.90                                     | 11.7                           |
|           |                |              | 16-QAM    | RB15#0                 | 2.68                                  | 2.94                                     | 11.8                           |
|           |                | MCH          | QPSK      | RB15#0                 | 2.68                                  | 2.92                                     | 11.9                           |
|           |                |              | 16-QAM    | RB15#0                 | 2.67                                  | 2.94                                     | 11.10                          |
|           |                | HCH          | QPSK      | RB15#0                 | 2.68                                  | 2.93                                     | 11.11                          |
|           |                |              | 16-QAM    | RB15#0                 | 2.67                                  | 2.91                                     | 11.12                          |
|           | 5 MHz          | LCH          | QPSK      | RB25#0                 | 4.47                                  | 4.89                                     | 11.13                          |
|           |                |              | 16-QAM    | RB25#0                 | 4.46                                  | 4.87                                     | 11.14                          |
|           |                | MCH          | QPSK      | RB25#0                 | 4.46                                  | 4.91                                     | 11.15                          |
|           |                |              | 16-QAM    | RB25#0                 | 4.46                                  | 4.89                                     | 11.16                          |
|           |                | HCH          | QPSK      | RB25#0                 | 4.46                                  | 4.91                                     | 11.17                          |
|           |                |              | 16-QAM    | RB25#0                 | 4.46                                  | 4.93                                     | 11.18                          |
|           | 10 MHz         | LCH          | QPSK      | RB50#0                 | 8.93                                  | 9.72                                     | 11.19                          |
|           |                |              | 16-QAM    | RB50#0                 | 8.93                                  | 9.63                                     | 11.20                          |
|           |                | MCH          | QPSK      | RB50#0                 | 8.91                                  | 9.63                                     | 11.21                          |
|           |                |              | 16-QAM    | RB50#0                 | 8.92                                  | 9.61                                     | 11.22                          |
|           |                | HCH          | QPSK      | RB50#0                 | 8.93                                  | 9.71                                     | 11.23                          |
|           |                |              | 16-QAM    | RB50#0                 | 8.93                                  | 9.63                                     | 11.24                          |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset ) | Measured 99% Occupied Bandwidth (MHz) | Measured -26 dB Occupied Bandwidth (MHz) | Refer to Plot <sup>Note2</sup> |
|-----------|----------------|--------------|-----------|------------------------|---------------------------------------|------------------------------------------|--------------------------------|
| Band 7    | 5 MHz          | LCH          | QPSK      | RB25#0                 | 4.47                                  | 4.9                                      | 12.1                           |
|           |                |              | 16-QAM    | RB25#0                 | 4.46                                  | 4.85                                     | 12.2                           |
|           |                | MCH          | QPSK      | RB25#0                 | 4.46                                  | 4.89                                     | 12.3                           |
|           |                |              | 16-QAM    | RB25#0                 | 4.46                                  | 4.89                                     | 12.4                           |
|           |                | HCH          | QPSK      | RB25#0                 | 4.46                                  | 4.86                                     | 12.5                           |
|           |                |              | 16-QAM    | RB25#0                 | 4.46                                  | 4.94                                     | 12.6                           |
|           | 10 MHz         | LCH          | QPSK      | RB50#0                 | 8.92                                  | 9.70                                     | 12.7                           |
|           |                |              | 16-QAM    | RB50#0                 | 8.92                                  | 9.60                                     | 12.8                           |
|           |                | MCH          | QPSK      | RB50#0                 | 8.91                                  | 9.66                                     | 12.9                           |
|           |                |              | 16-QAM    | RB50#0                 | 8.92                                  | 9.55                                     | 12.10                          |
|           |                | HCH          | QPSK      | RB50#0                 | 8.92                                  | 9.64                                     | 12.11                          |
|           |                |              | 16-QAM    | RB50#0                 | 8.92                                  | 9.65                                     | 12.12                          |
|           | 15 MHz         | LCH          | QPSK      | RB75#0                 | 13.37                                 | 14.53                                    | 12.13                          |
|           |                |              | 16-QAM    | RB75#0                 | 13.35                                 | 14.37                                    | 12.14                          |
|           |                | MCH          | QPSK      | RB75#0                 | 13.35                                 | 14.35                                    | 12.15                          |
|           |                |              | 16-QAM    | RB75#0                 | 13.37                                 | 14.41                                    | 12.16                          |
|           |                | HCH          | QPSK      | RB75#0                 | 13.36                                 | 14.39                                    | 12.17                          |
|           |                |              | 16-QAM    | RB75#0                 | 13.37                                 | 14.44                                    | 12.18                          |
|           | 20 MHz         | LCH          | QPSK      | RB100#0                | 17.79                                 | 18.96                                    | 12.19                          |
|           |                |              | 16-QAM    | RB100#0                | 17.80                                 | 19.10                                    | 12.20                          |
|           |                | MCH          | QPSK      | RB100#0                | 17.81                                 | 19.05                                    | 12.21                          |
|           |                |              | 16-QAM    | RB100#0                | 17.85                                 | 19.15                                    | 12.22                          |
|           |                | HCH          | QPSK      | RB100#0                | 17.83                                 | 19.22                                    | 12.23                          |
|           |                |              | 16-QAM    | RB100#0                | 17.79                                 | 19.08                                    | 12.24                          |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset ) | Measured 99% Occupied Bandwidth (MHz) | Measured -26 dB Occupied Bandwidth (MHz) | Refer to Plot <sup>Note2</sup> |
|-----------|----------------|--------------|-----------|------------------------|---------------------------------------|------------------------------------------|--------------------------------|
| Band 17   | 5 MHz          | LCH          | QPSK      | RB25#0                 | 4.46                                  | 4.91                                     | 13.1                           |
|           |                |              | 16-QAM    | RB25#0                 | 4.46                                  | 4.88                                     | 13.2                           |
|           |                | MCH          | QPSK      | RB25#0                 | 4.45                                  | 4.90                                     | 13.3                           |
|           |                |              | 16-QAM    | RB25#0                 | 4.46                                  | 4.86                                     | 13.4                           |
|           |                | HCH          | QPSK      | RB25#0                 | 4.46                                  | 4.84                                     | 13.5                           |
|           |                |              | 16-QAM    | RB25#0                 | 4.46                                  | 4.92                                     | 13.6                           |
|           | 10 MHz         | LCH          | QPSK      | RB50#0                 | 8.92                                  | 9.72                                     | 13.7                           |
|           |                |              | 16-QAM    | RB50#0                 | 8.91                                  | 9.67                                     | 13.8                           |
|           |                | MCH          | QPSK      | RB50#0                 | 8.92                                  | 9.63                                     | 13.9                           |
|           |                |              | 16-QAM    | RB50#0                 | 8.91                                  | 9.58                                     | 13.10                          |
|           |                | HCH          | QPSK      | RB50#0                 | 8.91                                  | 9.65                                     | 13.11                          |
|           |                |              | 16-QAM    | RB50#0                 | 8.91                                  | 9.62                                     | 13.12                          |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset ) | Measured 99% Occupied Bandwidth (MHz) | Measured -26 dB Occupied Bandwidth (MHz) | Refer to Plot <sup>Note2</sup> |
|-----------|----------------|--------------|-----------|------------------------|---------------------------------------|------------------------------------------|--------------------------------|
| Band 41   | 5 MHz          | LCH          | QPSK      | RB25#0                 | 4.46                                  | 4.91                                     | 14.1                           |
|           |                |              | 16-QAM    | RB25#0                 | 4.46                                  | 4.89                                     | 14.2                           |
|           |                | MCH          | QPSK      | RB25#0                 | 4.47                                  | 4.89                                     | 14.3                           |
|           |                |              | 16-QAM    | RB25#0                 | 4.45                                  | 4.89                                     | 14.4                           |
|           |                | HCH          | QPSK      | RB25#0                 | 4.46                                  | 4.84                                     | 14.5                           |
|           |                |              | 16-QAM    | RB25#0                 | 4.46                                  | 4.93                                     | 14.6                           |
|           | 10 MHz         | LCH          | QPSK      | RB50#0                 | 8.92                                  | 9.63                                     | 14.7                           |
|           |                |              | 16-QAM    | RB50#0                 | 8.91                                  | 9.65                                     | 14.8                           |
|           |                | MCH          | QPSK      | RB50#0                 | 8.91                                  | 9.73                                     | 14.9                           |
|           |                |              | 16-QAM    | RB50#0                 | 8.92                                  | 9.56                                     | 14.10                          |
|           |                | HCH          | QPSK      | RB50#0                 | 8.92                                  | 9.84                                     | 14.11                          |
|           |                |              | 16-QAM    | RB50#0                 | 8.90                                  | 9.59                                     | 14.12                          |
|           | 15 MHz         | LCH          | QPSK      | RB75#0                 | 13.36                                 | 14.70                                    | 14.13                          |
|           |                |              | 16-QAM    | RB75#0                 | 13.37                                 | 14.77                                    | 14.14                          |
|           |                | MCH          | QPSK      | RB75#0                 | 13.35                                 | 14.41                                    | 14.15                          |
|           |                |              | 16-QAM    | RB75#0                 | 13.4                                  | 14.57                                    | 14.16                          |
|           |                | HCH          | QPSK      | RB75#0                 | 13.38                                 | 15.18                                    | 14.17                          |
|           |                |              | 16-QAM    | RB75#0                 | 13.39                                 | 15.00                                    | 14.18                          |
|           | 20 MHz         | LCH          | QPSK      | RB100#0                | 17.81                                 | 18.88                                    | 14.19                          |
|           |                |              | 16-QAM    | RB100#0                | 17.76                                 | 19.07                                    | 14.20                          |
|           |                | MCH          | QPSK      | RB100#0                | 17.81                                 | 19.08                                    | 14.21                          |
|           |                |              | 16-QAM    | RB100#0                | 17.82                                 | 19.32                                    | 14.22                          |
|           |                | HCH          | QPSK      | RB100#0                | 17.81                                 | 19.61                                    | 14.23                          |
|           |                |              | 16-QAM    | RB100#0                | 17.80                                 | 19.05                                    | 14.24                          |

#### A.4 Frequency Stability

##### GSM 850

| Test Conditions |                  | Frequency Deviation |             |                  |             |                  |             | Verdict |
|-----------------|------------------|---------------------|-------------|------------------|-------------|------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | LCH<br>824.2 MHz    |             | MCH<br>836.6 MHz |             | HCH<br>848.8 MHz |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) | Value (Hz)       | Limits (Hz) | Value (Hz)       | Limits (Hz) |         |
| 3.8             | -20              | 6.13                | ±2060.5     | 8.2              | ±2091.5     | 4.94             | ±2122       | Pass    |
|                 | -15              | 1.81                |             | 2.71             |             | 6.39             |             |         |
|                 | -10              | 5.07                |             | 0.84             |             | 10.11            |             |         |
|                 | 0                | 5.55                |             | 8.91             |             | 8.78             |             |         |
|                 | 10               | -0.26               |             | 5.62             |             | 3.84             |             |         |
|                 | 20               | 4.94                |             | 4.52             |             | 5.00             |             |         |
|                 | 25               | 1.42                |             | 5.84             |             | 4.36             |             |         |
|                 | 30               | 3.00                |             | 3.42             |             | 4.94             |             |         |
|                 | 40               | 1.26                |             | 6.59             |             | 4.07             |             |         |
|                 | 50               | 3.16                |             | 3.58             |             | 6.68             |             |         |
| 3.7             | 25               | 5.42                |             | 3.84             |             | 2.84             |             |         |
| 4.35            | 25               | 0.58                |             | 2.78             |             | 4.26             |             |         |

##### GSM 1900

| Test Conditions |                  | Frequency Deviation |             |                 |             |                   |             | Verdict |
|-----------------|------------------|---------------------|-------------|-----------------|-------------|-------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | LCH<br>1850.2 MHz   |             | MCH<br>1880 MHz |             | HCH<br>1909.8 MHz |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) | Value (Hz)      | Limits (Hz) | Value (Hz)        | Limits (Hz) |         |
| 3.8             | -20              | 5.52                | ±4625.5     | 3.55            | ±4700.0     | 5.23              | ±4774.5     | Pass    |
|                 | -15              | 2.97                |             | 0.03            |             | 0.84              |             |         |
|                 | -10              | 6.97                |             | 1.03            |             | 8.07              |             |         |
|                 | 0                | 11.78               |             | 0.16            |             | 3.42              |             |         |
|                 | 10               | 5                   |             | 3.23            |             | 0.16              |             |         |
|                 | 20               | 4.78                |             | 0.97            |             | 5.71              |             |         |
|                 | 25               | 11.36               |             | -0.39           |             | 1.03              |             |         |
|                 | 30               | -0.65               |             | 2.91            |             | 4.94              |             |         |
|                 | 40               | 2.68                |             | 5.65            |             | 6.17              |             |         |
|                 | 50               | 3.16                |             | -1.39           |             | 1.81              |             |         |
| 3.7             | 25               | 7.01                | ±4625.5     | 8.17            | ±4700.0     | 7.59              | ±4774.5     | Pass    |
| 4.35            | 25               | -3.13               |             | 0.36            |             | 3.94              |             |         |

### GPRS 850

| Test Conditions |                  | Frequency Deviation |             |                  |             |                  |             | Verdict |
|-----------------|------------------|---------------------|-------------|------------------|-------------|------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | LCH<br>824.2 MHz    |             | MCH<br>836.6 MHz |             | HCH<br>848.8 MHz |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) | Value (Hz)       | Limits (Hz) | Value (Hz)       | Limits (Hz) |         |
| 3.8             | -20              | 17.6                | ±2060.5     | 16.92            | ±2091.5     | 17.79            | ±2122       | Pass    |
|                 | -15              | 16.89               |             | 15.11            |             | 17.21            |             |         |
|                 | -10              | 18.82               |             | 16.43            |             | 19.21            |             |         |
|                 | 0                | 16.79               |             | 15.88            |             | 16.14            |             |         |
|                 | 10               | 17.43               |             | 15.11            |             | 18.08            |             |         |
|                 | 20               | 17.72               |             | 14.59            |             | 14.14            |             |         |
|                 | 25               | 16.85               |             | 14.04            |             | 19.24            |             |         |
|                 | 30               | 17.4                |             | 15.82            |             | 17.56            |             |         |
|                 | 40               | 17.69               |             | 16.98            |             | 16.63            |             |         |
|                 | 50               | 17.18               |             | 14.98            |             | 20.24            |             |         |
| 3.7             | 25               | 17.82               |             | 18.98            |             | 16.85            |             |         |
| 4.35            | 25               | 18.4                |             | 16.82            |             | 17.24            |             |         |

### GPRS 1900

| Test Conditions |                  | Frequency Deviation |             |                 |             |                   |             | Verdict |
|-----------------|------------------|---------------------|-------------|-----------------|-------------|-------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | LCH<br>1850.2 MHz   |             | MCH<br>1880 MHz |             | HCH<br>1909.8 MHz |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) | Value (Hz)      | Limits (Hz) | Value (Hz)        | Limits (Hz) |         |
| 3.8             | -20              | 24.8                | ±4625.5     | 17.47           | ±4700.0     | 26.15             | ±4774.5     | Pass    |
|                 | -15              | 22.5                |             | 11.88           |             | 13.01             |             |         |
|                 | -10              | 22.05               |             | 10.14           |             | 8.65              |             |         |
|                 | 0                | 13.43               |             | 18.5            |             | 8.52              |             |         |
|                 | 10               | 19.47               |             | 6.62            |             | 13.75             |             |         |
|                 | 20               | 29.61               |             | 8.91            |             | 5.04              |             |         |
|                 | 25               | 23.67               |             | 0.19            |             | -1.45             |             |         |
|                 | 30               | 29.77               |             | 18.6            |             | 6.42              |             |         |
|                 | 40               | 22.05               |             | 13.37           |             | 5.52              |             |         |
|                 | 50               | 15.37               |             | 12.98           |             | 10.04             |             |         |
| 3.7             | 25               | 9.69                |             | 28.67           |             | 22.57             |             |         |
| 4.35            | 25               | 23.67               |             | 10.43           |             | 5.88              |             |         |

EGPRS 850

| Test Conditions |                  | Frequency Deviation |             |                  |             |                  |             | Verdict |
|-----------------|------------------|---------------------|-------------|------------------|-------------|------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | LCH<br>824.2 MHz    |             | MCH<br>836.6 MHz |             | HCH<br>848.8 MHz |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) | Value (Hz)       | Limits (Hz) | Value (Hz)       | Limits (Hz) |         |
| 3.8             | -20              | 18.47               | ±2060.5     | 18.98            | ±2091.5     | 25.28            | ±2122       | Pass    |
|                 | -15              | 22.89               |             | 23.6             |             | 19.92            |             |         |
|                 | -10              | 19.6                |             | 19.05            |             | 23.34            |             |         |
|                 | 0                | 20.34               |             | 17.95            |             | 23.08            |             |         |
|                 | 10               | 21.28               |             | 19.27            |             | 20.24            |             |         |
|                 | 20               | 20.08               |             | 16.53            |             | 22.89            |             |         |
|                 | 25               | 22.66               |             | 21.92            |             | 18.82            |             |         |
|                 | 30               | 22.83               |             | 18.89            |             | 19.02            |             |         |
|                 | 40               | 20.44               |             | 24.8             |             | 17.66            |             |         |
|                 | 50               | 19.86               |             | 21.37            |             | 20.7             |             |         |
| 3.7             | 25               | 21.57               |             | 21.89            |             | 17.95            |             |         |
| 4.35            | 25               | 21.86               |             | 23.5             |             | 20.89            |             |         |

EGPRS 1900

| Test Conditions |                  | Frequency Deviation |             |                 |             |                   |             | Verdict |
|-----------------|------------------|---------------------|-------------|-----------------|-------------|-------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | LCH<br>1850.2 MHz   |             | MCH<br>1880 MHz |             | HCH<br>1909.8 MHz |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) | Value (Hz)      | Limits (Hz) | Value (Hz)        | Limits (Hz) |         |
| 3.8             | -20              | 27.51               | ±4625.5     | 13.69           | ±4700.0     | 8.91              | ±4774.5     | Pass    |
|                 | -15              | 19.69               |             | 15.53           |             | 11.43             |             |         |
|                 | -10              | 19.47               |             | 23.34           |             | 31.58             |             |         |
|                 | 0                | 45.07               |             | 25.67           |             | 16.69             |             |         |
|                 | 10               | 13.95               |             | 14.33           |             | 12.66             |             |         |
|                 | 20               | 29.64               |             | 15.24           |             | 9.04              |             |         |
|                 | 25               | 36.87               |             | 18.18           |             | 15.17             |             |         |
|                 | 30               | 19.37               |             | 13.14           |             | 4.36              |             |         |
|                 | 40               | 35.87               |             | 23.44           |             | 10.4              |             |         |
|                 | 50               | 13.4                |             | 0.48            |             | 14.69             |             |         |
| 3.7             | 25               | 40.94               |             | 29.61           |             | 36.42             |             |         |
| 4.35            | 25               | 34.16               |             | 27.38           |             | 9.69              |             |         |

### CDMA BC0

| Test Conditions |                  | Frequency Deviation |             |                   |             |                   |               | Verdict |
|-----------------|------------------|---------------------|-------------|-------------------|-------------|-------------------|---------------|---------|
| Power (VDC)     | Temperature (°C) | LCH<br>824.70 MHz   |             | MCH<br>836.52 MHz |             | HCH<br>848.31 MHz |               |         |
|                 |                  | Value (Hz)          | Limits (Hz) | Value (Hz)        | Limits (Hz) | Value (Hz)        | Limits (Hz)   |         |
| 3.8             | -20              | 0.44                | ±2061.75    | 0.88              | ±2091.3     | -0.95             | ±2120.77<br>5 | Pass    |
|                 | -15              | -0.15               |             | 1.54              |             | 0                 |               |         |
|                 | -10              | 0.73                |             | 1.1               |             | -1.1              |               |         |
|                 | 0                | 0.73                |             | 0.59              |             | 0.66              |               |         |
|                 | 10               | 0.95                |             | -0.95             |             | 0.29              |               |         |
|                 | 20               | -0.07               |             | -0.15             |             | -1.25             |               |         |
|                 | 25               | -0.59               |             | 0.59              |             | -0.07             |               |         |
|                 | 30               | -1.25               |             | -0.66             |             | 0.15              |               |         |
|                 | 40               | 0.95                |             | -0.15             |             | -0.51             |               |         |
|                 | 50               | -0.29               |             | 0.66              |             | -0.95             |               |         |
| 3.7             | 25               | -1.61               |             | 1.32              |             | -0.81             |               |         |
| 4.35            | 25               | -1.03               |             | -0.73             |             | 0.44              |               |         |

### EVDO BC0

| Test Conditions |                  | Frequency Deviation |             |                   |             |                   |               | Verdict |
|-----------------|------------------|---------------------|-------------|-------------------|-------------|-------------------|---------------|---------|
| Power (VDC)     | Temperature (°C) | LCH<br>824.70 MHz   |             | MCH<br>836.52 MHz |             | HCH<br>848.31 MHz |               |         |
|                 |                  | Value (Hz)          | Limits (Hz) | Value (Hz)        | Limits (Hz) | Value (Hz)        | Limits (Hz)   |         |
| 3.8             | -20              | -1.54               | ±2061.75    | 0.88              | ±2091.3     | -0.29             | ±2120.77<br>5 | Pass    |
|                 | -15              | 0.29                |             | 0.73              |             | -0.44             |               |         |
|                 | -10              | -1.9                |             | -2.05             |             | 0.22              |               |         |
|                 | 0                | 0.81                |             | -1.68             |             | -1.83             |               |         |
|                 | 10               | -0.51               |             | 0.81              |             | -0.95             |               |         |
|                 | 20               | -0.59               |             | -0.07             |             | -0.51             |               |         |
|                 | 25               | -1.98               |             | 0.81              |             | 1.46              |               |         |
|                 | 30               | -1.61               |             | 1.03              |             | 1.17              |               |         |
|                 | 40               | -0.15               |             | -1.46             |             | -1.32             |               |         |
|                 | 50               | -1.32               |             | 0.73              |             | 0.37              |               |         |
| 3.7             | 25               | -0.07               |             | -1.03             |             | -1.46             |               |         |
| 4.35            | 25               | -2.27               |             | -0.22             |             | -0.88             |               |         |



### WCDMA Band 2

| Test Conditions |                  | Frequency Deviation |             |                 |             |                   |             | Verdict |
|-----------------|------------------|---------------------|-------------|-----------------|-------------|-------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | LCH<br>1852.4 MHz   |             | MCH<br>1880 MHz |             | HCH<br>1907.6 MHz |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) | Value (Hz)      | Limits (Hz) | Value (Hz)        | Limits (Hz) |         |
| 3.8             | -20              | 0.56                | ±4631       | -0.75           | ±4700       | -3.5              | ±4769       | Pass    |
|                 | -15              | 0.2                 |             | -0.8            |             | -3.36             |             |         |
|                 | -10              | 1.04                |             | -2.33           |             | -2.5              |             |         |
|                 | 0                | 0.04                |             | 0.26            |             | -2.92             |             |         |
|                 | 10               | -0.28               |             | -1.14           |             | -2.15             |             |         |
|                 | 20               | 1.45                |             | -0.72           |             | -3.49             |             |         |
|                 | 25               | 0.44                |             | -1.45           |             | -2.94             |             |         |
|                 | 30               | 0.13                |             | -1.03           |             | -3                |             |         |
|                 | 40               | -0.57               |             | -0.8            |             | -2.74             |             |         |
|                 | 50               | -0.18               |             | -1.44           |             | -2.35             |             |         |
| 3.7             | 25               | 0.65                |             | -1.25           |             | -3.68             |             |         |
| 4.35            | 25               | -0.12               |             | -0.94           |             | -2.32             |             |         |

### WCDMA Band B5

| Test Conditions |                  | Frequency Deviation |             |                  |             |                  |             | Verdict |
|-----------------|------------------|---------------------|-------------|------------------|-------------|------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | LCH<br>826.4 MHz    |             | MCH<br>836.4 MHz |             | HCH<br>846.6 MHz |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) | Value (Hz)       | Limits (Hz) | Value (Hz)       | Limits (Hz) |         |
| 3.8             | -20              | 0.81                | ±2066       | -0.51            | ±2091       | -0.69            | ±2116.5     | Pass    |
|                 | -15              | 0.41                |             | -0.87            |             | -1.34            |             |         |
|                 | -10              | 0.65                |             | -0.35            |             | -1.04            |             |         |
|                 | 0                | 0.24                |             | -0.56            |             | -0.96            |             |         |
|                 | 10               | -0.45               |             | -0.36            |             | -0.82            |             |         |
|                 | 20               | 0.92                |             | -0.09            |             | -0.97            |             |         |
|                 | 25               | 0.39                |             | -0.17            |             | -1.22            |             |         |
|                 | 30               | 0.24                |             | -0.35            |             | -1.09            |             |         |
|                 | 40               | 0.44                |             | -0.16            |             | -1.2             |             |         |
|                 | 50               | 0.66                |             | 0                |             | -1.02            |             |         |
| 3.7             | 25               | 0.01                |             | 0.1              |             | -1.42            |             |         |
| 4.35            | 25               | 0.54                |             | -0.46            |             | -1.2             |             |         |

### LTE Band 2 QPSK 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>1880 MHz     |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.8             | -20              | -3.99               | ±4700       | Pass    |
|                 | -15              | -4.45               |             |         |
|                 | -10              | -0.94               |             |         |
|                 | 0                | -4.33               |             |         |
|                 | 10               | -2.72               |             |         |
|                 | 20               | -2.27               |             |         |
|                 | 25               | -4.95               |             |         |
|                 | 30               | -4.08               |             |         |
|                 | 40               | -5.78               |             |         |
|                 | 50               | -3.93               |             |         |
| 3.7             | 25               | -4.59               |             |         |
| 4.35            | 25               | -3.25               |             |         |

### LTE Band 2 16-QAM 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>1880 MHz     |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.8             | -20              | -3.75               | ±4700       | Pass    |
|                 | -15              | -3.79               |             |         |
|                 | -10              | -1.86               |             |         |
|                 | 0                | -3.56               |             |         |
|                 | 10               | -1.09               |             |         |
|                 | 20               | -5.55               |             |         |
|                 | 25               | -2.12               |             |         |
|                 | 30               | -5.58               |             |         |
|                 | 40               | -3.69               |             |         |
|                 | 50               | -3.96               |             |         |
| 3.7             | 25               | -3.86               |             |         |
| 4.35            | 25               | -3.63               |             |         |

### LTE Band 4 QPSK 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>1732.5 MHz   |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.8             | -20              | -0.34               | ±4331.25    | Pass    |
|                 | -15              | -0.24               |             |         |
|                 | -10              | -0.16               |             |         |
|                 | 0                | -1.29               |             |         |
|                 | 10               | 1.27                |             |         |
|                 | 20               | 0.69                |             |         |
|                 | 25               | 0.3                 |             |         |
|                 | 30               | 1.59                |             |         |
|                 | 40               | -0.66               |             |         |
|                 | 50               | -0.39               |             |         |
| 3.7             | 25               | 0.47                | ±4331.25    | Pass    |
| 4.35            | 25               | -0.5                |             |         |

### LTE Band 4 16QAM 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>1732.5 MHz   |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.8             | -20              | 0.44                | ±4331.25    | Pass    |
|                 | -15              | 0.14                |             |         |
|                 | -10              | 1                   |             |         |
|                 | 0                | -0.29               |             |         |
|                 | 10               | 0.11                |             |         |
|                 | 20               | 1.36                |             |         |
|                 | 25               | -1.16               |             |         |
|                 | 30               | -0.2                |             |         |
|                 | 40               | 1.03                |             |         |
|                 | 50               | 0.13                |             |         |
| 3.7             | 25               | 0.07                | ±4331.25    | Pass    |
| 4.35            | 25               | 0.2                 |             |         |

### LTE Band 5 QPSK 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>836.5 MHz    |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.8             | -20              | -1.83               | ±2091.25    | Pass    |
|                 | -15              | 0.14                |             |         |
|                 | -10              | -0.86               |             |         |
|                 | 0                | -0.9                |             |         |
|                 | 10               | -0.74               |             |         |
|                 | 20               | -1.52               |             |         |
|                 | 25               | -0.41               |             |         |
|                 | 30               | -0.1                |             |         |
|                 | 40               | -0.34               |             |         |
|                 | 50               | -1.22               |             |         |
| 3.7             | 25               | -0.84               | ±2091.25    | Pass    |
| 4.35            | 25               | -1.2                |             |         |

### LTE Band 5 16QAM 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>836.5 MHz    |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.8             | -20              | -0.13               | ±2091.25    | Pass    |
|                 | -15              | -0.19               |             |         |
|                 | -10              | -0.34               |             |         |
|                 | 0                | 0.2                 |             |         |
|                 | 10               | 0.16                |             |         |
|                 | 20               | 0.14                |             |         |
|                 | 25               | 0.03                |             |         |
|                 | 30               | -0.11               |             |         |
|                 | 40               | -0.21               |             |         |
|                 | 50               | -0.8                |             |         |
| 3.7             | 25               | -1.23               | ±2091.25    | Pass    |
| 4.35            | 25               | -0.89               |             |         |

### LTE Band 7 QPSK 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>2535 MHz     |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.8             | -20              | -3.68               | ±6337.5     | Pass    |
|                 | -15              | -4.05               |             |         |
|                 | -10              | -5.24               |             |         |
|                 | 0                | -2.49               |             |         |
|                 | 10               | -1.53               |             |         |
|                 | 20               | -3.42               |             |         |
|                 | 25               | -1.52               |             |         |
|                 | 30               | -2.98               |             |         |
|                 | 40               | -5.42               |             |         |
|                 | 50               | -3.46               |             |         |
| 3.7             | 25               | -3.81               |             |         |
| 4.35            | 25               | -3.3                |             |         |

### LTE Band 7 16-QAM 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>2535 MHz     |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.8             | -20              | -3.19               | ±6337.5     | Pass    |
|                 | -15              | -4.49               |             |         |
|                 | -10              | -2.8                |             |         |
|                 | 0                | -2.69               |             |         |
|                 | 10               | -2.93               |             |         |
|                 | 20               | -5.54               |             |         |
|                 | 25               | -2.1                |             |         |
|                 | 30               | -3.58               |             |         |
|                 | 40               | -3.71               |             |         |
|                 | 50               | -3.15               |             |         |
| 3.7             | 25               | -3.4                | ±6337.5     | Pass    |
| 4.35            | 25               | -2.35               |             |         |

### LTE Band 17 QPSK 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>710 MHz      |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.8             | -20              | 0.03                | ±1775       | Pass    |
|                 | -15              | -0.73               |             |         |
|                 | -10              | -0.96               |             |         |
|                 | 0                | -0.36               |             |         |
|                 | 10               | -0.99               |             |         |
|                 | 20               | -0.03               |             |         |
|                 | 25               | 1.62                |             |         |
|                 | 30               | -1.26               |             |         |
|                 | 40               | 0.6                 |             |         |
|                 | 50               | -0.57               |             |         |
| 3.7             | 25               | -0.69               | ±1775       | Pass    |
| 4.35            | 25               | -0.72               |             |         |

### LTE Band 17 16QAM10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>710 MHz      |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.8             | -20              | 0.14                | ±1775       | Pass    |
|                 | -15              | -0.29               |             |         |
|                 | -10              | 0.19                |             |         |
|                 | 0                | 1.59                |             |         |
|                 | 10               | -1.86               |             |         |
|                 | 20               | 0.23                |             |         |
|                 | 25               | -0.01               |             |         |
|                 | 30               | 0.3                 |             |         |
|                 | 40               | -0.67               |             |         |
|                 | 50               | -0.76               |             |         |
| 3.7             | 25               | 0                   | ±1775       | Pass    |
| 4.35            | 25               | 0.07                |             |         |

### LTE Band 41 QPSK 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>2605 MHz     |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.8             | -20              | -2.26               | ±6512.5     | Pass    |
|                 | -15              | 4.48                |             |         |
|                 | -10              | 3.56                |             |         |
|                 | 0                | 5.98                |             |         |
|                 | 10               | 5.22                |             |         |
|                 | 20               | 4.92                |             |         |
|                 | 25               | 3.6                 |             |         |
|                 | 30               | 6.12                |             |         |
|                 | 40               | 0.87                |             |         |
|                 | 50               | 4.16                |             |         |
| 3.7             | 25               | 6.51                |             |         |
| 4.35            | 25               | 5.21                |             |         |

### LTE Band 41 16QAM 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>2605 MHz     |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.8             | -20              | -1.13               | ±6512.5     | Pass    |
|                 | -15              | 2.57                |             |         |
|                 | -10              | 4.18                |             |         |
|                 | 0                | 2.26                |             |         |
|                 | 10               | 1.75                |             |         |
|                 | 20               | -2                  |             |         |
|                 | 25               | 4.38                |             |         |
|                 | 30               | 1.57                |             |         |
|                 | 40               | 3.38                |             |         |
|                 | 50               | 5.71                |             |         |
| 3.7             | 25               | 3.53                |             |         |
| 4.35            | 25               | 4.82                |             |         |

## A.5 Spurious Emission at Antenna Terminals

Note 1: GSM and EGPRS modes have been verified, and only the worst data with different bandwidth for LTE are shown here.

Note 2: The frequencies of verdict which are marked by "N/A" should be ignored because they are MS carrier frequency.

Note 3: Test plots please refer to the document "Annex No.: BL-EC17C0360-501 Data Part 3.pdf".

### GSM, CDMA and WCDMA Mode Test Data

| Test Band    | Test Channel | Refer to Plot <sup>Note3</sup> | Verdict |
|--------------|--------------|--------------------------------|---------|
| GSM 850      | LCH          | 1.1                            | Pass    |
|              | MCH          | 1.2                            | Pass    |
|              | HCH          | 1.3                            | Pass    |
| GSM 1900     | LCH          | 2.1                            | Pass    |
|              | MCH          | 2.2                            | Pass    |
|              | HCH          | 2.3                            | Pass    |
| EGPRS 850    | LCH          | 3.1                            | Pass    |
|              | MCH          | 3.2                            | Pass    |
|              | HCH          | 3.3                            | Pass    |
| EGPRS 1900   | LCH          | 4.1                            | Pass    |
|              | MCH          | 4.2                            | Pass    |
|              | HCH          | 4.3                            | Pass    |
| CDMA BC0     | LCH          | 5.1                            | Pass    |
|              | MCH          | 5.2                            | Pass    |
|              | HCH          | 5.3                            | Pass    |
| EVDO BC0     | LCH          | 6.1                            | Pass    |
|              | MCH          | 6.2                            | Pass    |
|              | HCH          | 6.3                            | Pass    |
| WCDMA Band 2 | LCH          | 7.1                            | Pass    |
|              | MCH          | 7.2                            | Pass    |
|              | HCH          | 7.3                            | Pass    |
| WCDMA Band 5 | LCH          | 8.1                            | Pass    |
|              | MCH          | 8.2                            | Pass    |
|              | HCH          | 8.3                            | Pass    |



# LTE Mode Test Verdict

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB(Size#Offset) | Refer to Plot <sup>Note3</sup> | Verdict |
|-----------|----------------|--------------|-----------|----------------------|--------------------------------|---------|
| Band 2    | 1.4 MHz        | LCH          | QPSK      | RB1#0                | 9.1                            | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 9.2                            | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 9.3                            | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 9.4                            | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 9.5                            | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 9.6                            | Pass    |
|           | 3 MHz          | LCH          | QPSK      | RB1#0                | 9.7                            | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 9.8                            | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 9.9                            | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 9.10                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 9.11                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 9.12                           | Pass    |
|           | 5 MHz          | LCH          | QPSK      | RB1#0                | 9.13                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 9.14                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 9.15                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 9.16                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 9.17                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 9.18                           | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                | 9.19                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 9.20                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 9.21                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 9.22                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 9.23                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 9.24                           | Pass    |
|           | 15 MHz         | LCH          | QPSK      | RB1#0                | 9.25                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 9.26                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 9.27                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 9.28                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 9.29                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 9.3                            | Pass    |
|           | 20 MHz         | LCH          | QPSK      | RB1#0                | 9.31                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 9.32                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 9.33                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 9.34                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 9.35                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 9.36                           | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB(Size#Offset) | Refer to Plot <sup>Note2</sup> | Verdict |
|-----------|----------------|--------------|-----------|----------------------|--------------------------------|---------|
| Band 4    | 1.4 MHz        | LCH          | QPSK      | RB1#0                | 10.1                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 10.2                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 10.3                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 10.4                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 10.5                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 10.6                           | Pass    |
|           | 3 MHz          | LCH          | QPSK      | RB1#0                | 10.7                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 10.8                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 10.9                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 10.10                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 10.11                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 10.12                          | Pass    |
|           | 5 MHz          | LCH          | QPSK      | RB1#0                | 10.13                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 10.14                          | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 10.15                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 10.16                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 10.17                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 10.18                          | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                | 10.19                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 10.20                          | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 10.21                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 10.22                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 10.23                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 10.24                          | Pass    |
|           | 15 MHz         | LCH          | QPSK      | RB1#0                | 10.25                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 10.26                          | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 10.27                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 10.28                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 10.29                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 10.30                          | Pass    |
|           | 20 MHz         | LCH          | QPSK      | RB1#0                | 10.31                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 10.32                          | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 10.33                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 10.34                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 10.35                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 10.36                          | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB(Size#Offset) | Refer to Plot <sup>Note2</sup> | Verdict |
|-----------|----------------|--------------|-----------|----------------------|--------------------------------|---------|
| Band 5    | 1.4 MHz        | LCH          | QPSK      | RB1#0                | 11.1                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 11.2                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 11.3                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 11.4                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 11.5                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 11.6                           | Pass    |
|           | 3 MHz          | LCH          | QPSK      | RB1#0                | 11.7                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 11.8                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 11.9                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 11.10                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 11.11                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 11.12                          | Pass    |
|           | 5 MHz          | LCH          | QPSK      | RB1#0                | 11.13                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 11.14                          | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 11.15                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 11.16                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 11.17                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 11.18                          | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                | 11.19                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 11.20                          | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 11.21                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 11.22                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 11.23                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 11.24                          | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB(Size#Offset) | Refer to Plot <sup>Note2</sup> | Verdict |
|-----------|----------------|--------------|-----------|----------------------|--------------------------------|---------|
| Band 7    | 5 MHz          | LCH          | QPSK      | RB1#0                | 12.1                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 12.2                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 12.3                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 12.4                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 12.5                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 12.6                           | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                | 12.7                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 12.8                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 12.9                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 12.10                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 12.11                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 12.12                          | Pass    |
|           | 15 MHz         | LCH          | QPSK      | RB1#0                | 12.13                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 12.14                          | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 12.15                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 12.16                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 12.17                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 12.18                          | Pass    |
|           | 20 MHz         | LCH          | QPSK      | RB1#0                | 12.19                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 12.20                          | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 12.21                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 12.22                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 12.23                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 12.24                          | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB(Size#Offset) | Refer to Plot <sup>Note2</sup> | Verdict |
|-----------|----------------|--------------|-----------|----------------------|--------------------------------|---------|
| Band 17   | 5 MHz          | LCH          | QPSK      | RB1#0                | 13.1                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 13.2                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 13.3                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 13.4                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 13.5                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 13.6                           | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                | 13.7                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 13.8                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 13.9                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 13.10                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 13.11                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 13.12                          | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB(Size#Offset) | Refer to Plot <sup>Note2</sup> | Verdict |
|-----------|----------------|--------------|-----------|----------------------|--------------------------------|---------|
| Band 41   | 5 MHz          | LCH          | QPSK      | RB1#0                | 14.1                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 14.2                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 14.3                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 14.4                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 14.5                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 14.6                           | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                | 14.7                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 14.8                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 14.9                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 14.10                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 14.11                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 14.12                          | Pass    |
|           | 15 MHz         | LCH          | QPSK      | RB1#0                | 14.13                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 14.14                          | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 14.15                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 14.16                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 14.17                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 14.18                          | Pass    |
|           | 20 MHz         | LCH          | QPSK      | RB1#0                | 14.19                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 14.20                          | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 14.21                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 14.22                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 14.23                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 14.24                          | Pass    |

## A.6 Band Edge

Note 1: Test plots please refer to the document “Annex No.: BL-EC17C0360-501 Data Part 4.pdf”.

### GSM, CDMA and WCDMA Mode Test Data

| Test Band    | Test Channel | Refer to Plot <sup>Note1</sup> | Verdict |
|--------------|--------------|--------------------------------|---------|
| GSM 850      | LCH          | 1.1                            | Pass    |
|              | HCH          | 1.2                            | Pass    |
| GSM 1900     | LCH          | 2.1                            | Pass    |
|              | HCH          | 2.2                            | Pass    |
| EGPRS 850    | LCH          | 3.1                            | Pass    |
|              | HCH          | 3.2                            | Pass    |
| EGPRS 1900   | LCH          | 4.1                            | Pass    |
|              | HCH          | 4.2                            | Pass    |
| CDMA BC0     | LCH          | 5.1                            | Pass    |
|              | HCH          | 5.2                            | Pass    |
| EVDO BC0     | LCH          | 6.1                            | Pass    |
|              | HCH          | 6.2                            | Pass    |
| WCDMA Band 2 | LCH          | 7.1                            | Pass    |
|              | HCH          | 7.2                            | Pass    |
| WCDMA Band 5 | LCH          | 8.1                            | Pass    |
|              | HCH          | 8.2                            | Pass    |

# LTE Mode Test Verdict

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB(Size#Offset) | Refer to Plot <sup>Note1</sup> | Verdict |
|-----------|----------------|--------------|-----------|----------------------|--------------------------------|---------|
| Band 2    | 1.4 MHz        | LCH          | QPSK      | RB1#0                | 9.1                            | Pass    |
|           |                |              |           | RB6#0                | 9.2                            | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 9.3                            | Pass    |
|           |                |              |           | RB6#0                | 9.4                            | Pass    |
|           |                | HCH          | QPSK      | RB1#5                | 9.5                            | Pass    |
|           |                |              |           | RB6#0                | 9.6                            | Pass    |
|           |                |              | 16-QAM    | RB1#5                | 9.7                            | Pass    |
|           |                |              |           | RB6#0                | 9.8                            | Pass    |
|           | 3 MHz          | LCH          | QPSK      | RB1#0                | 9.9                            | Pass    |
|           |                |              |           | RB15#0               | 9.10                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 9.11                           | Pass    |
|           |                |              |           | RB15#0               | 9.12                           | Pass    |
|           |                | HCH          | QPSK      | RB1#14               | 9.13                           | Pass    |
|           |                |              |           | RB15#0               | 9.14                           | Pass    |
|           |                |              | 16-QAM    | RB1#14               | 9.15                           | Pass    |
|           |                |              |           | RB15#0               | 9.16                           | Pass    |
|           | 5 MHz          | LCH          | QPSK      | RB1#0                | 9.17                           | Pass    |
|           |                |              |           | RB25#0               | 9.18                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 9.19                           | Pass    |
|           |                |              |           | RB25#0               | 9.20                           | Pass    |
|           |                | HCH          | QPSK      | RB1#24               | 9.21                           | Pass    |
|           |                |              |           | RB25#0               | 9.22                           | Pass    |
|           |                |              | 16-QAM    | RB1#24               | 9.23                           | Pass    |
|           |                |              |           | RB25#0               | 9.24                           | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                | 9.25                           | Pass    |
|           |                |              |           | RB50#0               | 9.26                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 9.27                           | Pass    |
|           |                |              |           | RB50#0               | 9.28                           | Pass    |
|           |                | HCH          | QPSK      | RB1#49               | 9.29                           | Pass    |
|           |                |              |           | RB50#0               | 9.30                           | Pass    |
|           |                |              | 16-QAM    | RB1#49               | 9.31                           | Pass    |
|           |                |              |           | RB50#0               | 9.32                           | Pass    |
|           | 15 MHz         | LCH          | QPSK      | RB1#0                | 9.33                           | Pass    |
|           |                |              |           | RB75#0               | 9.34                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 9.35                           | Pass    |
|           |                |              |           | RB75#0               | 9.36                           | Pass    |
|           |                | HCH          | QPSK      | RB1#74               | 9.37                           | Pass    |
|           |                |              |           | RB75#0               | 9.38                           | Pass    |
|           |                |              | 16-QAM    | RB1#74               | 9.39                           | Pass    |
|           |                |              |           | RB75#0               | 9.40                           | Pass    |



| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB(Size#Offset) | Refer to Plot <sup>Note1</sup> | Verdict |
|-----------|----------------|--------------|-----------|----------------------|--------------------------------|---------|
|           | 20 MHz         | LCH          | QPSK      | RB1#0                | 9.41                           | Pass    |
|           |                |              |           | RB100#0              | 9.42                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 9.43                           | Pass    |
|           |                |              |           | RB100#0              | 9.44                           | Pass    |
|           |                | HCH          | QPSK      | RB1#99               | 9.45                           | Pass    |
|           |                |              |           | RB100#0              | 9.46                           | Pass    |
|           |                |              | 16-QAM    | RB1#99               | 9.47                           | Pass    |
|           |                |              |           | RB100#0              | 9.48                           | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB(Size#Offset) | Refer to Plot <sup>Note1</sup> | Verdict |
|-----------|----------------|--------------|-----------|----------------------|--------------------------------|---------|
| Band 4    | 1.4 MHz        | LCH          | QPSK      | RB1#0                | 10.1                           | Pass    |
|           |                |              |           | RB6#0                | 10.2                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 10.3                           | Pass    |
|           |                |              |           | RB6#0                | 10.4                           | Pass    |
|           |                | HCH          | QPSK      | RB1#5                | 10.5                           | Pass    |
|           |                |              |           | RB6#0                | 10.6                           | Pass    |
|           |                |              | 16-QAM    | RB1#5                | 10.7                           | Pass    |
|           |                |              |           | RB6#0                | 10.8                           | Pass    |
|           | 3 MHz          | LCH          | QPSK      | RB1#0                | 10.9                           | Pass    |
|           |                |              |           | RB15#0               | 10.10                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 10.11                          | Pass    |
|           |                |              |           | RB15#0               | 10.12                          | Pass    |
|           |                | HCH          | QPSK      | RB1#14               | 10.13                          | Pass    |
|           |                |              |           | RB15#0               | 10.14                          | Pass    |
|           |                |              | 16-QAM    | RB1#14               | 10.15                          | Pass    |
|           |                |              |           | RB15#0               | 10.16                          | Pass    |
|           | 5 MHz          | LCH          | QPSK      | RB1#0                | 10.17                          | Pass    |
|           |                |              |           | RB25#0               | 10.18                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 10.19                          | Pass    |
|           |                |              |           | RB25#0               | 10.20                          | Pass    |
|           |                | HCH          | QPSK      | RB1#24               | 10.21                          | Pass    |
|           |                |              |           | RB25#0               | 10.22                          | Pass    |
|           |                |              | 16-QAM    | RB1#24               | 10.23                          | Pass    |
|           |                |              |           | RB25#0               | 10.24                          | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                | 10.25                          | Pass    |
|           |                |              |           | RB50#0               | 10.26                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 10.27                          | Pass    |
|           |                |              |           | RB50#0               | 10.28                          | Pass    |
|           |                | HCH          | QPSK      | RB1#49               | 10.29                          | Pass    |
|           |                |              |           | RB50#0               | 10.30                          | Pass    |
|           |                |              | 16-QAM    | RB1#49               | 10.31                          | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB(Size#Offset) | Refer to Plot <sup>Note1</sup> | Verdict |
|-----------|----------------|--------------|-----------|----------------------|--------------------------------|---------|
|           |                |              |           | RB50#0               | 10.32                          | Pass    |
|           | 15 MHz         | LCH          | QPSK      | RB1#0                | 10.33                          | Pass    |
|           |                |              |           | RB75#0               | 10.34                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 10.35                          | Pass    |
|           |                |              |           | RB75#0               | 10.36                          | Pass    |
|           |                | HCH          | QPSK      | RB1#74               | 10.37                          | Pass    |
|           |                |              |           | RB75#0               | 10.38                          | Pass    |
|           |                |              | 16-QAM    | RB1#74               | 10.39                          | Pass    |
|           |                |              |           | RB75#0               | 10.40                          | Pass    |
|           | 20 MHz         | LCH          | QPSK      | RB1#0                | 10.41                          | Pass    |
|           |                |              |           | RB100#0              | 10.42                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 10.43                          | Pass    |
|           |                |              |           | RB100#0              | 10.44                          | Pass    |
|           |                | HCH          | QPSK      | RB1#99               | 10.45                          | Pass    |
|           |                |              |           | RB100#0              | 10.46                          | Pass    |
|           |                |              | 16-QAM    | RB1#99               | 10.47                          | Pass    |
|           |                |              |           | RB100#0              | 10.48                          | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB(Size#Offset) | Refer to Plot <sup>Note1</sup> | Verdict |
|-----------|----------------|--------------|-----------|----------------------|--------------------------------|---------|
| Band 5    | 1.4 MHz        | LCH          | QPSK      | RB1#0                | 11.1                           | Pass    |
|           |                |              |           | RB6#0                | 11.2                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 11.3                           | Pass    |
|           |                |              |           | RB6#0                | 11.4                           | Pass    |
|           |                | HCH          | QPSK      | RB1#5                | 11.5                           | Pass    |
|           |                |              |           | RB6#0                | 11.6                           | Pass    |
|           |                |              | 16-QAM    | RB1#5                | 11.7                           | Pass    |
|           |                |              |           | RB6#0                | 11.8                           | Pass    |
|           | 3 MHz          | LCH          | QPSK      | RB1#0                | 11.9                           | Pass    |
|           |                |              |           | RB15#0               | 11.10                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 11.11                          | Pass    |
|           |                |              |           | RB15#0               | 11.12                          | Pass    |
|           |                | HCH          | QPSK      | RB1#14               | 11.13                          | Pass    |
|           |                |              |           | RB15#0               | 11.14                          | Pass    |
|           |                |              | 16-QAM    | RB1#14               | 11.15                          | Pass    |
|           |                |              |           | RB15#0               | 11.16                          | Pass    |
|           | 5 MHz          | LCH          | QPSK      | RB1#0                | 11.17                          | Pass    |
|           |                |              |           | RB25#0               | 11.18                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 11.19                          | Pass    |
|           |                |              |           | RB25#0               | 11.20                          | Pass    |
|           |                | HCH          | QPSK      | RB1#24               | 11.21                          | Pass    |
|           |                |              |           | RB25#0               | 11.22                          | Pass    |
|           |                |              | 16-QAM    | RB1#24               | 11.23                          | Pass    |
|           |                |              |           | RB25#0               | 11.24                          | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                | 11.25                          | Pass    |
|           |                |              |           | RB50#0               | 11.26                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 11.27                          | Pass    |
|           |                |              |           | RB50#0               | 11.28                          | Pass    |
|           |                | HCH          | QPSK      | RB1#49               | 11.29                          | Pass    |
|           |                |              |           | RB50#0               | 11.30                          | Pass    |
|           |                |              | 16-QAM    | RB1#49               | 11.31                          | Pass    |
|           |                |              |           | RB50#0               | 11.32                          | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB(Size#Offset) | Refer to Plot <sup>Note1</sup> | Verdict |
|-----------|----------------|--------------|-----------|----------------------|--------------------------------|---------|
| Band 7    | 5 MHz          | LCH          | QPSK      | RB1#0                | 12.1                           | Pass    |
|           |                |              |           | RB25#0               | 12.2                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 12.3                           | Pass    |
|           |                |              |           | RB25#0               | 12.4                           | Pass    |
|           |                | HCH          | QPSK      | RB1#24               | 12.5                           | Pass    |
|           |                |              |           | RB25#0               | 12.6                           | Pass    |
|           |                |              | 16-QAM    | RB1#24               | 12.7                           | Pass    |
|           |                |              |           | RB25#0               | 12.8                           | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                | 12.9                           | Pass    |
|           |                |              |           | RB50#0               | 12.10                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 12.11                          | Pass    |
|           |                |              |           | RB50#0               | 12.12                          | Pass    |
|           |                | HCH          | QPSK      | RB1#49               | 12.13                          | Pass    |
|           |                |              |           | RB50#0               | 12.14                          | Pass    |
|           |                |              | 16-QAM    | RB1#49               | 12.15                          | Pass    |
|           |                |              |           | RB50#0               | 12.16                          | Pass    |
|           | 15 MHz         | LCH          | QPSK      | RB1#0                | 12.17                          | Pass    |
|           |                |              |           | RB75#0               | 12.18                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 12.19                          | Pass    |
|           |                |              |           | RB75#0               | 12.20                          | Pass    |
|           |                | HCH          | QPSK      | RB1#74               | 12.21                          | Pass    |
|           |                |              |           | RB75#0               | 12.22                          | Pass    |
|           |                |              | 16-QAM    | RB1#74               | 12.23                          | Pass    |
|           |                |              |           | RB75#0               | 12.24                          | Pass    |
|           | 20 MHz         | LCH          | QPSK      | RB1#0                | 12.25                          | Pass    |
|           |                |              |           | RB100#0              | 12.26                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 12.27                          | Pass    |
|           |                |              |           | RB100#0              | 12.28                          | Pass    |
|           |                | HCH          | QPSK      | RB1#99               | 12.29                          | Pass    |
|           |                |              |           | RB100#0              | 12.30                          | Pass    |
|           |                |              | 16-QAM    | RB1#99               | 12.31                          | Pass    |
|           |                |              |           | RB100#0              | 12.32                          | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB(Size#Offset) | Refer to Plot <sup>Note1</sup> | Verdict |
|-----------|----------------|--------------|-----------|----------------------|--------------------------------|---------|
| Band 17   | 5 MHz          | LCH          | QPSK      | RB1#0                | 13.1                           | Pass    |
|           |                |              |           | RB25#0               | 13.2                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 13.3                           | Pass    |
|           |                |              |           | RB25#0               | 13.4                           | Pass    |
|           |                | HCH          | QPSK      | RB1#24               | 13.5                           | Pass    |
|           |                |              |           | RB25#0               | 13.6                           | Pass    |
|           |                |              | 16-QAM    | RB1#24               | 13.7                           | Pass    |
|           |                |              |           | RB25#0               | 13.8                           | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                | 13.9                           | Pass    |
|           |                |              |           | RB50#0               | 13.10                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 13.11                          | Pass    |
|           |                |              |           | RB50#0               | 13.12                          | Pass    |
|           |                | HCH          | QPSK      | RB1#49               | 13.13                          | Pass    |
|           |                |              |           | RB50#0               | 13.14                          | Pass    |
|           |                |              | 16-QAM    | RB1#49               | 13.15                          | Pass    |
|           |                |              |           | RB50#0               | 13.16                          | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB(Size#Offset) | Refer to Plot <sup>Note1</sup> | Verdict |
|-----------|----------------|--------------|-----------|----------------------|--------------------------------|---------|
| Band 41   | 5 MHz          | LCH          | QPSK      | RB1#0                | 14.1                           | Pass    |
|           |                |              |           | RB25#0               | 14.2                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 14.3                           | Pass    |
|           |                |              |           | RB25#0               | 14.4                           | Pass    |
|           |                | HCH          | QPSK      | RB1#24               | 14.5                           | Pass    |
|           |                |              |           | RB25#0               | 14.6                           | Pass    |
|           |                |              | 16-QAM    | RB1#24               | 14.7                           | Pass    |
|           |                |              |           | RB25#0               | 14.8                           | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                | 14.9                           | Pass    |
|           |                |              |           | RB50#0               | 14.10                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 14.11                          | Pass    |
|           |                |              |           | RB50#0               | 14.12                          | Pass    |
|           |                | HCH          | QPSK      | RB1#49               | 14.13                          | Pass    |
|           |                |              |           | RB50#0               | 14.14                          | Pass    |
|           |                |              | 16-QAM    | RB1#49               | 14.15                          | Pass    |
|           |                |              |           | RB50#0               | 14.16                          | Pass    |
|           | 15 MHz         | LCH          | QPSK      | RB1#0                | 14.17                          | Pass    |
|           |                |              |           | RB75#0               | 14.18                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 14.19                          | Pass    |
|           |                |              |           | RB75#0               | 14.20                          | Pass    |
|           |                | HCH          | QPSK      | RB1#74               | 14.21                          | Pass    |
|           |                |              |           | RB75#0               | 14.22                          | Pass    |
|           |                |              | 16-QAM    | RB1#74               | 14.23                          | Pass    |
|           |                |              |           | RB75#0               | 14.24                          | Pass    |
|           | 20 MHz         | LCH          | QPSK      | RB1#0                | 14.25                          | Pass    |
|           |                |              |           | RB100#0              | 14.26                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 14.27                          | Pass    |
|           |                |              |           | RB100#0              | 14.28                          | Pass    |
|           |                | HCH          | QPSK      | RB1#99               | 14.29                          | Pass    |
|           |                |              |           | RB100#0              | 14.30                          | Pass    |
|           |                |              | 16-QAM    | RB1#99               | 14.31                          | Pass    |
|           |                |              |           | RB100#0              | 14.32                          | Pass    |

## A.7 Field Strength of Spurious Radiation

Note 1: GSM and EGPRS modes have been verified, only the worst data with different transmit bandwidth for LTE are shown here.

Note 2: The frequencies of verdict which are marked by "N/A" should be ignored because they are MS carrier frequency.

Note 3: When measurement frequency is above 18GHz, there is only noise floor of test system existing.

So that there is no test data above 18GHz in the report.

Note 4: Test plots please refer to the document "Annex No.: BL-EC17C0360-501 Data Part 5.pdf".

### GSM, CDMA and WCDMA Mode Test Data

| Test Band    | Test Channel | Refer to Plot <sup>Note3</sup> | Verdict |
|--------------|--------------|--------------------------------|---------|
| GSM 850      | LCH          | 1.1                            | Pass    |
|              | MCH          | 1.2                            | Pass    |
|              | HCH          | 1.3                            | Pass    |
| GSM 1900     | LCH          | 2.1                            | Pass    |
|              | MCH          | 2.2                            | Pass    |
|              | HCH          | 2.3                            | Pass    |
| EGPRS 850    | LCH          | 3.1                            | Pass    |
|              | MCH          | 3.2                            | Pass    |
|              | HCH          | 3.3                            | Pass    |
| EGPRS 1900   | LCH          | 4.1                            | Pass    |
|              | MCH          | 4.2                            | Pass    |
|              | HCH          | 4.3                            | Pass    |
| CDMA BC0     | LCH          | 5.3                            | Pass    |
|              | MCH          | 5.1                            | Pass    |
|              | HCH          | 5.2                            | Pass    |
| EVDO BC0     | LCH          | 6.3                            | Pass    |
|              | MCH          | 6.1                            | Pass    |
|              | HCH          | 6.2                            | Pass    |
| WCDMA Band 2 | LCH          | 7.1                            | Pass    |
|              | MCH          | 7.2                            | Pass    |
|              | HCH          | 7.3                            | Pass    |
| WCDMA Band 5 | LCH          | 8.1                            | Pass    |
|              | MCH          | 8.2                            | Pass    |
|              | HCH          | 8.3                            | Pass    |

# LTE Mode Test Verdict

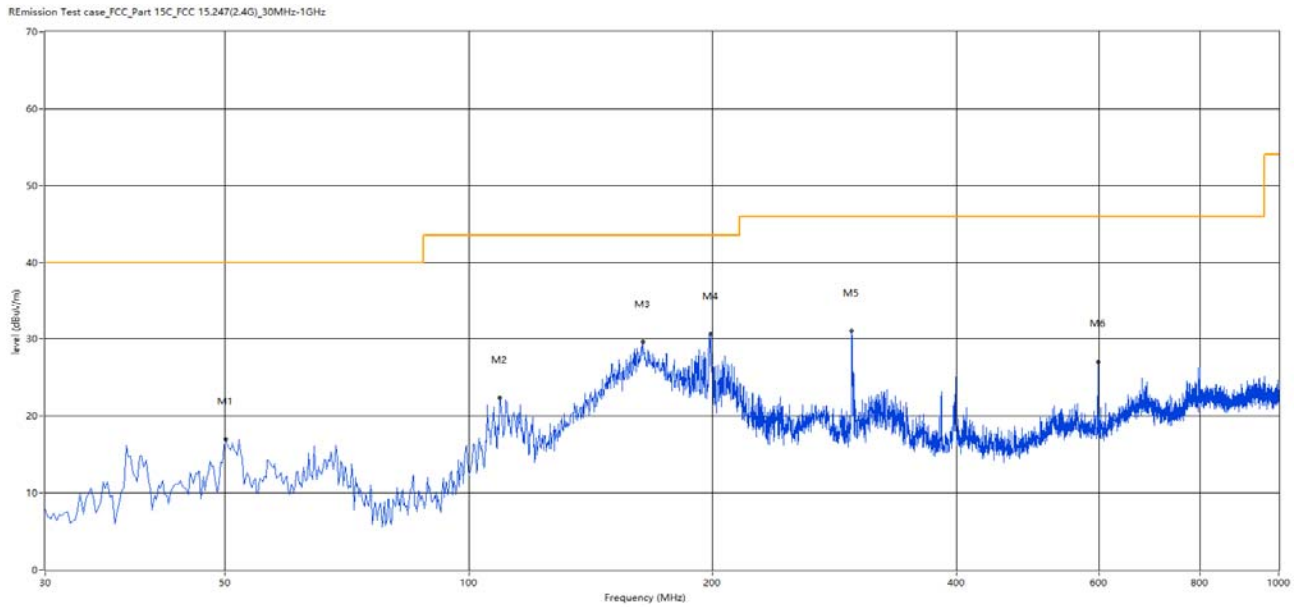
| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB(Size#Offset) | Refer to Plot <sup>Note3</sup> | Verdict |
|-----------|----------------|--------------|-----------|----------------------|--------------------------------|---------|
| Band 2    | 1.4 MHz        | MCH          | QPSK      | RB1#0                | 9.1                            | Pass    |
|           | 3 MHz          | MCH          | QPSK      | RB1#0                | 9.2                            | Pass    |
|           | 5 MHz          | MCH          | QPSK      | RB1#0                | 9.3                            | Pass    |
|           | 10 MHz         | MCH          | QPSK      | RB1#0                | 9.4                            | Pass    |
|           | 15 MHz         | MCH          | QPSK      | RB1#0                | 9.5                            | Pass    |
|           | 20 MHz         | MCH          | QPSK      | RB1#0                | 9.6                            | Pass    |
| Band 4    | 1.4 MHz        | MCH          | QPSK      | RB1#0                | 10.1                           | Pass    |
|           | 3 MHz          | MCH          | QPSK      | RB1#0                | 10.2                           | Pass    |
|           | 5 MHz          | MCH          | QPSK      | RB1#0                | 10.3                           | Pass    |
|           | 10 MHz         | MCH          | QPSK      | RB1#0                | 10.4                           | Pass    |
|           | 15 MHz         | MCH          | QPSK      | RB1#0                | 10.5                           | Pass    |
|           | 20 MHz         | MCH          | QPSK      | RB1#0                | 10.6                           | Pass    |
| Band 5    | 1.4 MHz        | MCH          | QPSK      | RB1#0                | 11.1                           | Pass    |
|           | 3 MHz          | MCH          | QPSK      | RB1#0                | 11.2                           | Pass    |
|           | 5 MHz          | MCH          | QPSK      | RB1#0                | 11.3                           | Pass    |
|           | 10 MHz         | MCH          | QPSK      | RB1#0                | 11.4                           | Pass    |
| Band 7    | 5 MHz          | MCH          | QPSK      | RB1#0                | 12.1                           | Pass    |
|           | 10 MHz         | MCH          | QPSK      | RB1#0                | 12.2                           | Pass    |
|           | 15 MHz         | MCH          | QPSK      | RB1#0                | 12.3                           | Pass    |
|           | 20 MHz         | MCH          | QPSK      | RB1#0                | 12.4                           | Pass    |
| Band 17   | 5 MHz          | MCH          | QPSK      | RB1#0                | 13.1                           | Pass    |
|           | 10 MHz         | MCH          | QPSK      | RB1#0                | 13.2                           | Pass    |
| Band 41   | 5 MHz          | MCH          | QPSK      | RB1#0                | 14.1                           | Pass    |
|           | 10 MHz         | MCH          | QPSK      | RB1#0                | 14.2                           | Pass    |
|           | 15 MHz         | MCH          | QPSK      | RB1#0                | 14.3                           | Pass    |
|           | 20 MHz         | MCH          | QPSK      | RB1#0                | 14.4                           | Pass    |



## A.8 Receiver Spurious Emissions

Note: Only the worst test results were recorded in this report.

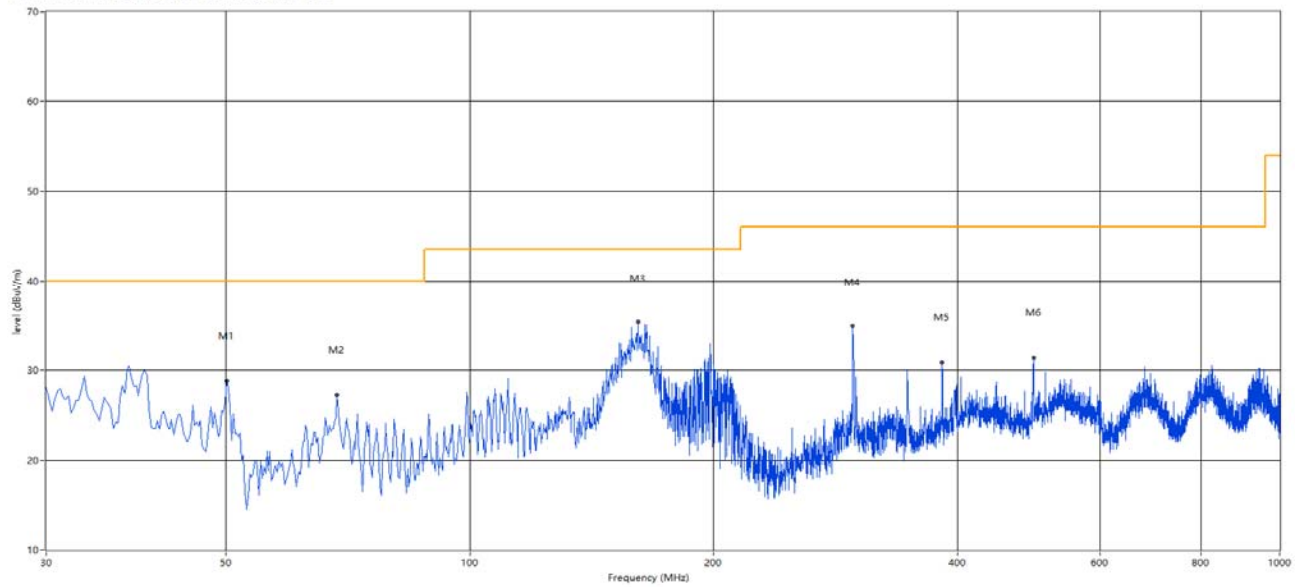
### 30MHz to 1GHz, ANT H



| Frequency (MHz) | Peak Level (dBuV/m) | Q-peak Level (dBuV/m) | Average Level (dBuV/m) | Factor (dB) | PK Limit (dBuV/m) | QP Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Table (o) | Height (cm) | ANT        | Verdict |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|------------|---------|
| 50.122          | 16.92               | --                    | --                     | -26.61      | --                | 40.0              | --                | 23.08       | 2.00      | 100         | Horizontal | Pass    |
| 109.278         | 22.30               | --                    | --                     | -28.71      | --                | 43.5              | --                | 21.20       | 3.00      | 100         | Horizontal | Pass    |
| 164.069         | 29.56               | --                    | --                     | -31.37      | --                | 43.5              | --                | 13.94       | 3.00      | 100         | Horizontal | Pass    |
| 199.223         | 30.64               | --                    | --                     | -28.70      | --                | 43.5              | --                | 12.86       | 4.00      | 100         | Horizontal | Pass    |
| 297.168         | 31.05               | --                    | --                     | -26.70      | --                | 46.0              | --                | 14.95       | 1.00      | 100         | Horizontal | Pass    |
| 598.763         | 27.01               | --                    | --                     | -19.00      | --                | 46.0              | --                | 18.99       | 3.00      | 100         | Horizontal | Pass    |

## 30MHz to 1GHz, ANT V

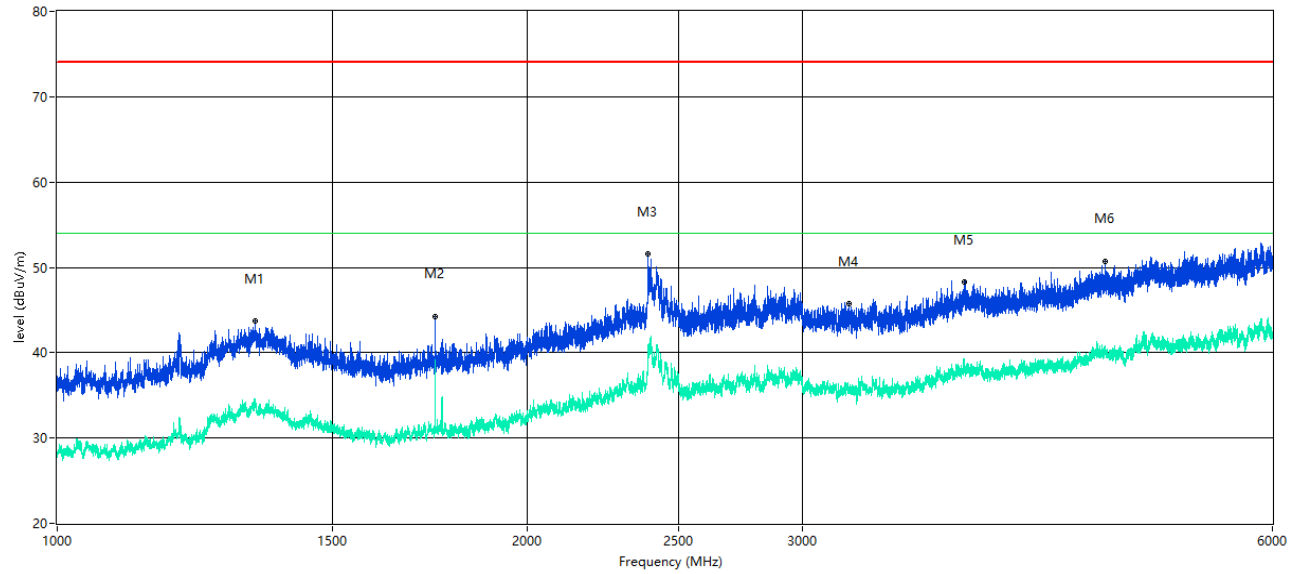
REmission Test case\_FCC\_Part 15C\_FCC 15.247(2.4G)\_30MHz-1GHz



| Frequency (MHz) | Peak Level (dBuV/m) | Q-peak Level (dBuV/m) | Average Level (dBuV/m) | Factor (dB) | PK Limit (dBuV/m) | QP Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Table (o) | Height (cm) | ANT      | Verdict |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|----------|---------|
| 50.122          | 28.75               | --                    | --                     | -26.61      | --                | 40.0              | --                | 11.25       | 19.00     | 100         | Vertical | Pass    |
| 68.548          | 27.23               | --                    | --                     | -30.34      | --                | 40.0              | --                | 12.77       | 230.00    | 100         | Vertical | Pass    |
| 161.402         | 35.34               | --                    | --                     | -31.48      | --                | 43.5              | --                | 8.16        | 2.00      | 100         | Vertical | Pass    |
| 297.168         | 34.96               | --                    | --                     | -26.70      | --                | 46.0              | --                | 11.04       | 246.00    | 100         | Vertical | Pass    |
| 383.234         | 30.85               | --                    | --                     | -24.58      | --                | 46.0              | --                | 15.15       | 4.00      | 100         | Vertical | Pass    |
| 496.696         | 31.38               | --                    | --                     | -21.97      | --                | 46.0              | --                | 14.62       | 3.00      | 100         | Vertical | Pass    |

## 1GHz to 6GHz, ANT H

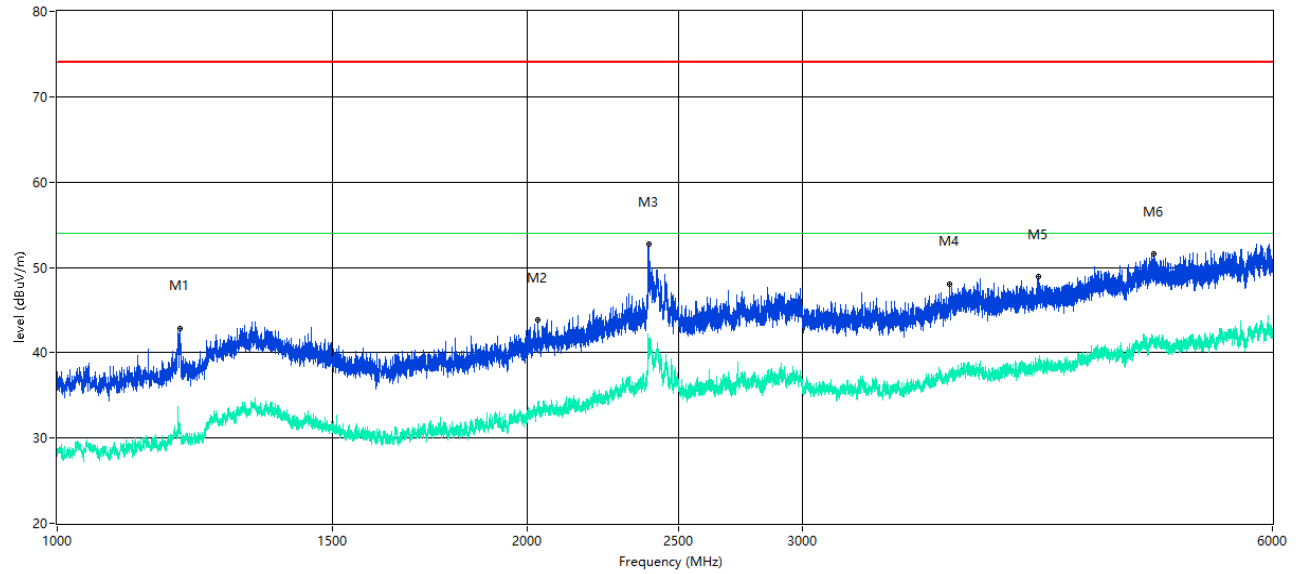
REmission Test case\_FCC\_Part 15C\_FCC 15.247(2.4G)\_1GHz-6GHz



| Frequency<br>(MHz) | Peak<br>Level<br>(dBuV/m) | Q-peak<br>Level<br>(dBuV/m) | Average<br>Level<br>(dBuV/m) | Factor<br>(dB) | PK Limit<br>(dBuV/m) | QP Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) | Table (o) | Height<br>(cm) | ANT        | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 1339.708           | 43.67                     | --                          | 33.6                         | -11.93         | 74.0                 | --                   | 54.0                 | 20.40          | 1.00      | 100            | Horizontal | Pass    |
| 1745.657           | 44.26                     | --                          | 39.0                         | -11.32         | 74.0                 | --                   | 54.0                 | 15.00          | 117.00    | 100            | Horizontal | Pass    |
| 2389.576           | 51.52                     | --                          | 40.2                         | -1.63          | 74.0                 | --                   | 54.0                 | 13.80          | 252.00    | 100            | Horizontal | Pass    |
| 3215.973           | 45.76                     | --                          | 35.8                         | -5.19          | 74.0                 | --                   | 54.0                 | 18.20          | 208.00    | 100            | Horizontal | Pass    |
| 3808.399           | 48.23                     | --                          | 38.4                         | -2.58          | 74.0                 | --                   | 54.0                 | 15.60          | 1.00      | 100            | Horizontal | Pass    |
| 4686.914           | 50.63                     | --                          | 40.0                         | -0.16          | 74.0                 | --                   | 54.0                 | 14.00          | 120.00    | 100            | Horizontal | Pass    |

## 1GHz to 6GHz, ANT V

REmission Test case\_FCC\_Part 15C\_FCC 15.247(2.4G)\_1GHz-6GHz



| Frequency (MHz) | Peak Level (dBuV/m) | Q-peak Level (dBuV/m) | Average Level (dBuV/m) | Factor (dB) | PK Limit (dBuV/m) | QP Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Table (o) | Height (cm) | ANT      | Verdict |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|----------|---------|
| 1197.975        | 42.88               | --                    | 31.1                   | -12.17      | 74.0              | --                | 54.0              | 22.90       | 1.00      | 100         | Vertical | Pass    |
| 2032.371        | 43.83               | --                    | 33.3                   | -7.78       | 74.0              | --                | 54.0              | 20.70       | 316.00    | 100         | Vertical | Pass    |
| 2391.326        | 52.70               | --                    | 41.2                   | -0.56       | 74.0              | --                | 54.0              | 12.80       | 5.00      | 100         | Vertical | Pass    |
| 3728.534        | 48.03               | --                    | 37.9                   | -3.36       | 74.0              | --                | 54.0              | 16.10       | 334.00    | 100         | Vertical | Pass    |
| 4252.718        | 48.92               | --                    | 38.0                   | -1.78       | 74.0              | --                | 54.0              | 16.00       | 160.00    | 100         | Vertical | Pass    |
| 5037.495        | 51.55               | --                    | 41.2                   | 1.05        | 74.0              | --                | 54.0              | 12.80       | 232.00    | 100         | Vertical | Pass    |

## **ANNEX B TEST SETUP PHOTOS**

Please refer to the document "BL-EC17C0360-AR.PDF".

## **ANNEX C EUT EXTERNAL PHOTOS**

Please refer to the document "BL-EC17C0360-AW.PDF".

## **ANNEX D EUT INTERNAL PHOTOS**

Please refer to the document "BL-EC17C0360-AI.PDF".

--END OF REPORT--