

# RF TEST REPORT

ISSUED BY  
Shenzhen BALUN Technology Co., Ltd.



FOR  
**Mobile Phone**

ISSUED TO  
vivo Mobile Communication Co., Ltd.

No.1, vivo Road, Chang'an, Dongguan, Guangdong, China



Tested by: Wu Huihui

Wu Huihui

Date Feb. 21, 2022

Approved by: Wei Yanquan

Wei Yanquan  
(Chief Engineer)

Date Feb. 21, 2022

Report No.: BL-SZ2210380-501  
EUT Name: Mobile Phone  
Model Name: V2110  
Brand Name: vivo  
Test Standard: 47 CFR Part 2  
47 CFR Part 22  
47 CFR Part 24  
47 CFR Part 27  
(refer section 3.1)  
FCC ID: 2AUCY-V2110V  
Test Conclusion: Pass  
Test Date: Jul. 19, 2021 ~ Aug. 09, 2021  
Date of Issue: Feb. 21, 2022

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**Revision History**

| <u>Version</u> | <u>Issue Date</u>    | <u>Revisions Content</u> |
|----------------|----------------------|--------------------------|
| <u>Rev. 01</u> | <u>Feb. 21, 2022</u> | <u>Initial Issue</u>     |

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# 1 ADMINISTRATIVE DATA (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  |

## 1.2 Identification of the Responsible Testing Location

|                           |   |
|---------------------------|---|
| Test Location             | 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 Certificate | The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.  |
| 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 Laboratory Condition

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

## 1.4 Announce

- (1) The test report reference to the report template version v6.2.
- (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.
- (7) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant. The applicant is responsible for the impact of the information provided on the validity of the results.

## 2 PRODUCT INFORMATION

### 2.1 Applicant Information

|           |   |
|-----------|---|
| Applicant | vivo Mobile Communication Co., Ltd.                   |
| Address   | No.1, vivo Road, Chang'an, Dongguan, Guangdong, China |

### 2.2 Manufacturer Information

|              |   |
|--------------|---|
| Manufacturer | vivo Mobile Communication Co., Ltd.                   |
| Address      | No.1, vivo Road, Chang'an, Dongguan, Guangdong, China |

### 2.3 Factory Information

|         |     |
|---------|-----|
| Factory | N/A |
| Address | N/A |

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

|   |                        |
|---|------------------------|
| EUT Name                                  | Mobile Phone           |
| Model Name Under Test                     | V2110                  |
| Series Model Name                         | N/A                    |
| Description of Model name differentiation | N/A                    |
| Hardware Version                          | MP_0.1                 |
| Software Version                          | PD2138CF_EX_A_3.6.11   |
| Dimensions (Approx.)                      | 164.26mm*76.08mm*8.0mm |
| Weight (Approx.)                          | 180g                   |

## 2.5 Technical Information

Note: The information provided by the applicant, except for The Max RF Output Power (EIRP/ERP).

|   |  |
|---|--|
| All Network and Wireless connectivity for EUT   | 2G Network GSM/GPRS/EGPRS 850/1900 MHz<br>3G Network WCDMA/HSDPA/HSUPA Band 2/4/5<br>4G Network FDD LTE Band 2/4/5/7/66<br>TDD LTE Band 38/41<br>LTE CA Uplink (UL): CA_7C, CA_38C, CA_41C |
| About the Product   | The equipment is Mobile Phone, intended for used with information technology equipment.  |
| <p>Note 1:<br/>The EUT is a mobile phone, supporting dual SIM card slots under the same transceiver. Both SIM card slots support GSM, WCDMA and LTE. And both SIM card slots share the same transceiver, so only SIM1 is tested in this report.</p> |  |

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

|                    |  |       |
|--------------------|--|-------|
| Operating Bands    | GSM/GPRS/EGPRS 850/1900 MHz<br>WCDMA/HSDPA/HSUPA Band 2/4/5<br>FDD LTE Band 2/4/5/7/66<br>TDD LTE Band 38/41<br>LTE CA Uplink (UL): CA_7C, CA_38C, CA_41C  |       |
| Modulation Type    | GSM/GPRS   | GMSK  |
|                    | EGPRS  | 8PSK  |
|                    | WCDMA  | QPSK  |
|                    | HSDPA  | QPSK  |
|                    | /HSUPA   | 16QAM |
|                    | LTE  | QPSK  |
|                    |  | 16QAM |
|                    | 64QAM  |       |
| TX Frequency Range | GSM/GPRS/EGPRS 850: 824 MHz ~ 849 MHz<br>GSM/GPRS/EGPRS 1900: 1850 MHz ~ 1910 MHz<br>WCDMA/HSDPA/HSUPA Band 2: 1850 MHz ~ 1910 MHz<br>WCDMA/HSDPA/HSUPA Band 4: 1710 MHz ~ 1755 MHz<br>WCDMA/HSDPA/HSUPA Band 5: 824 MHz ~ 849 MHz<br>FDD LTE Band 2: 1850 MHz ~ 1910 MHz<br>FDD LTE Band 4: 1710 MHz ~ 1755 MHz<br>FDD LTE Band 5: 824 MHz ~ 849 MHz<br>FDD LTE Band 7: 2500 MHz ~ 2570 MHz<br>TDD LTE Band 38: 2570 MHz ~ 2620 MHz<br>TDD LTE Band 41: 2496 MHz ~ 2690 MHz<br>FDD LTE Band 66: 1710 MHz ~ 1780 MHz |       |
| Rx Frequency Range | GSM/GPRS/EGPRS 850: 869 MHz ~ 894 MHz<br>GSM/GPRS/EGPRS 1900: 1930 MHz ~ 1990 MHz<br>WCDMA/HSDPA/HSUPA Band 2: 1930 MHz ~ 1990 MHz   |       |

|                                    |  |
|------------------------------------|--|
|                                    | WCDMA/HSDPA/HSUPA Band 4: 2110 MHz ~ 2155 MHz<br>WCDMA/HSDPA/HSUPA Band 5: 869 MHz ~ 894 MHz<br>FDD LTE Band 2: 1930 MHz ~ 1990 MHz<br>FDD LTE Band 4: 2110 MHz ~ 2155 MHz<br>FDD LTE Band 5: 869 MHz ~ 894 MHz<br>FDD LTE Band 7: 2620 MHz ~ 2690 MHz<br>TDD LTE Band 38: 2570 MHz ~ 2620 MHz<br>TDD LTE Band 41: 2496 MHz ~ 2690 MHz<br>FDD LTE Band 66: 2110 MHz ~ 2180 MHz                     |
| Power Class                        | GSM/GPRS 850: 4<br>GSM/GPRS 1900: 1<br>EGPRS 850/1900: E2<br>WCDMA/HSDPA/HSUPA Band 2: 3<br>WCDMA/HSDPA/HSUPA Band 4: 3<br>WCDMA/HSDPA/HSUPA Band 5: 3<br>FDD LTE Band 2: 3<br>FDD LTE Band 4: 3<br>FDD LTE Band 5: 3<br>FDD LTE Band 7: 3<br>TDD LTE Band 38: 3<br>TDD LTE Band 41: 3<br>FDD LTE Band 66: 3   |
| Multislot Class                    | GPRS/EGPRS: 12   |
| Antenna Type                       | PIFA Antenna   |
| Antenna Gain                       | GSM/GPRS/EGPRS 850: -5.29 dBi<br>GSM/GPRS/EGPRS 1900: -4.69 dBi<br>WCDMA/HSDPA/HSUPA Band 2: -4.69 dBi<br>WCDMA/HSDPA/HSUPA Band 4: -3.35 dBi<br>WCDMA/HSDPA/HSUPA Band 5: -5.29 dBi<br>FDD LTE Band 2: -4.69 dBi<br>FDD LTE Band 4: -3.35 dBi<br>FDD LTE Band 5: -5.29 dBi<br>FDD LTE Band 7: -0.55 dBi<br>TDD LTE Band 38: -0.55 dBi<br>TDD LTE Band 41: -0.55 dBi<br>FDD LTE Band 66: -2.63 dBi |
| The Max RF Output Power (EIRP/ERP) | GSM/GPRS/EGPRS 850: 25.48 dBm<br>GSM/GPRS/EGPRS 1900: 25.39 dBm<br>WCDMA/HSDPA/HSUPA Band 2: 18.34 dBm<br>WCDMA/HSDPA/HSUPA Band 4: 19.50 dBm<br>WCDMA/HSDPA/HSUPA Band 5: 16.08 dBm<br>FDD LTE Band 2: 17.87 dBm<br>FDD LTE Band 4: 19.28 dBm<br>FDD LTE Band 5: 16.33 dBm<br>FDD LTE Band 7: 21.66 dBm<br>TDD LTE Band 38: 22.64 dBm   |

|  |  |
|--|--|
|  | TDD LTE Band 41: 22.74 dBm<br>FDD LTE Band 66: 19.97 dBm<br>CA_7C: 22.31 dBm<br>CA_38C: 22.26 dBm<br>CA_41C: 22.31 dBm |
|--|--|

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               | Frequency Allocations and Radio Treaty Matters;<br>General Rules and Regulations       |
| 2   | 47 CFR Part 22<br>Subpart H | Cellular Radiotelephone Service  |
| 3   | 47 CFR Part 24<br>Subpart E | Broadband PCS  |
| 4   | 47 CFR Part 27              | Miscellaneous Wireless Communications Services   |
| 5   | ANSI/TIA-603-E-2016         | Land Mobile FM or PM Communications Equipment<br>Measurement and Performance Standards |
| 6   | KDB 971168<br>D01 v03       | Measurement Guidance for Certification of Licensed Digital<br>Transmitters             |

### 3.2 Test Verdict

| No. | Test Description                       | FCC Part No.                        | Test Result                | Test Verdict |
|-----|--|-------------------------------------|----------------------------|--------------|
| 1   | Conducted RF Output Power              | 2.1046                              | Reporting only (ANNEX A.1) | Pass         |
| 2   | Effective (Isotropic) Radiated Power   | 2.1046<br>22.913<br>24.232<br>27.50 | ANNEX A.1                  | Pass         |
| 3   | Peak to Average Ratio                  | 2.1046<br>24.232(d)<br>27.50(d)     | ANNEX A.2                  | Pass         |
| 4   | Occupied Bandwidth                     | 2.1049<br>22.917<br>24.238<br>27.53 | ANNEX A.3                  | Pass         |
| 5   | Frequency Stability                    | 2.1055<br>22.355<br>24.235<br>27.54 | ANNEX A.4                  | Pass         |
| 6   | Spurious Emission at Antenna Terminals | 2.1051<br>22.917<br>24.238<br>27.53 | ANNEX A.5                  | Pass         |
| 7   | Band Edge                              | 2.1051<br>22.917<br>24.238<br>27.53 | ANNEX A.6                  | Pass         |
| 8   | Field Strength of Spurious Radiation   | 2.1053<br>22.917<br>24.238<br>27.53 | ANNEX A.7                  | Pass         |

Note: Compared with the EUT of test report BL-SZ2170620-501, the EUT of this report replace the:

1. Remove FM function.
  2. Add the NFC function.
  3. Remove LTE Band 12 and LTE Band 17.
  4. Some channels' RF output power of WLAN has been reduced.(Pleas refer to WLAN test report for detail.)
- Other hardware circuit and software are the same as EUT referred in test report BL-SZ2170620-501.  
Therefore, all test data please refer to report BL-SZ2170620-701, which was issued by Shenzhen BALUN Technology Co., Ltd. on Aug. 18, 2021.

## 4 GENERAL TEST CONFIGURATIONS

### 4.1 Test Environments

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

|                             |                         |        |
|-----------------------------|-------------------------|--------|
| Test Voltage of the EUT     | NV (Normal Voltage)     | 3.87 V |
|                             | LV (Low Voltage)        | 3.60 V |
|                             | HV (High Voltage)       | 4.45 V |
| Test Temperature of the EUT | NT (Normal Temperature) | +25 °C |
|                             | LT (Low Temperature)    | -30 °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                    | V1.9.8                     | N/A        | N/A        |
| Test Software 3                      | BALUN        | BL410R        | N/A                    | V2.1.1.48<br>8             | N/A        | N/A        |
| Universal Radio Communication Tester | R&S          | CMU 200       | 119280                 | V5.13                      | 2021.01.14 | 2022.01.13 |
| Wideband Radio Communication Tester  | R&S          | CMW 500       | 127794                 | V3.5.137                   | 2021.06.01 | 2022.05.31 |
| Wideband Radio Communication Tester  | R&S          | CMW 500       | 120598                 | V3.5.137                   | 2021.01.14 | 2022.01.13 |
| Spectrum Analyzer                    | R&S          | FSV-40        | 101544                 | 2.30.SP4                   | 2021.06.01 | 2022.05.31 |
| Spectrum Analyzer                    | Agilent      | E4440A        | MY45304434             | A.11.21                    | 2020.09.25 | 2021.09.24 |
| Spectrum Analyzer                    | Agilent      | E4440A        | MY46181663             | A.11.21                    | 2020.10.21 | 2021.10.20 |
| Temperature Chamber                  | AHK          | SP20          | 1412                   | N/A                        | 2021.06.04 | 2022.06.03 |
| DC Power Supply                      | ITECH        | IT6863A       | 8000140207<br>57120008 | N/A                        | 2020.09.25 | 2021.09.24 |
| Power Sensor                         | Agilent      | E9304A<br>H18 | MY41497164             | N/A                        | 2020.09.25 | 2021.09.24 |
| Power Splitter                       | KMW          | DCPD-<br>LDC  | 1305003215             | N/A                        | N/A        | N/A        |
| Attenuator<br>(20 dB)                | KMW          | ZA-S1-201     | 110617091              | N/A                        | N/A        | N/A        |

|   |             |                 |            |         |            |            |
|---|-------------|-----------------|------------|---------|------------|------------|
| Attenuator<br>(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-<br>Bi-Log(30 MHz-3<br>GHz)  | Schwarzbeck | VULB<br>9163    | 9163-624   | N/A     | 2019.07.02 | 2022.07.01 |
| Test Antenna-<br>Horn(1-18 GHz)           | Schwarzbeck | BBHA<br>9120D   | 9120D-1148 | N/A     | 2019.07.02 | 2022.07.01 |
| Test Antenna-<br>Horn(18-40 GHz)          | A-INFO      | LB-<br>180400KF | J211060273 | N/A     | 2021.01.04 | 2023.01.03 |
| Anechoic Chamber                          | YIHENG      | 9m*6m*6m        | #3         | N/A     | 2018.07.18 | 2022.07.17 |
| Shielded Enclosure                        | ChangNing   | CN-<br>130701   | 130703     | N/A     | N/A        | N/A        |
| EMI Receiver                              | KEYSIGHT    | N9038A          | MY53220118 | A.14.16 | 2020.09.18 | 2021.09.17 |
| Wideband Radio<br>Communication<br>Tester | R&S         | CMW 500         | 127794     | V3.2.73 | 2021.06.01 | 2022.05.31 |

### 4.3 Test Configurations

| Test Items                             | Test Mode    | Test Channel |     |     |
|--|--------------|--------------|-----|-----|
|  |              | LCH          | MCH | HCH |
| Effective (Isotropic) Radiated Power   | 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   |
|  | WCDMA Band 2 | v            | v   | v   |
|  | WCDMA Band 4 | v            | v   | v   |
|  | WCDMA Band 5 | v            | v   | v   |
|  | HSDPA Band 2 | v            | v   | v   |
|  | HSDPA Band 4 | v            | v   | v   |
|  | HSDPA Band 5 | v            | v   | v   |
|  | HSUPA Band 2 | v            | v   | v   |
|  | HSUPA Band 4 | v            | v   | v   |
|  | HSUPA Band 5 | v            | v   | v   |
| Peak to Average Ratio                  | WCDMA Band 2 | v            | v   | v   |
|  | WCDMA Band 4 | v            | v   | v   |
|  | WCDMA Band 5 | 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   |
|  | WCDMA Band 2 | v            | v   | v   |
|  | WCDMA Band 4 | 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   |
|  | WCDMA Band 2 | v            | v   | v   |
|  | WCDMA Band 4 | 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   |
|  | WCDMA Band 2 | v            | v   | v   |
|  | WCDMA Band 4 | 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   |
|                                      | WCDMA Band 2 | v            | --  | v   |
|                                      | WCDMA Band 4 | 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   |
|                                      | WCDMA Band 2 | v            | v   | v   |
|                                      | WCDMA Band 4 | v            | v   | v   |
|                                      | WCDMA Band 5 | v            | v   | v   |

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

| Test Mode           | UL Channel     | UL Channel No. | UL Frequency (MHz) |
|---------------------|----------------|----------------|--------------------|
| GSM/GPRS/EGPRS 850  | Low Channel    | 128            | 824.2              |
|                     | Middle Channel | 190            | 836.6              |
|                     | High Channel   | 251            | 848.8              |
| GSM/GPRS/EGPRS 1900 | Low Channel    | 512            | 1850.2             |
|                     | Middle Channel | 661            | 1880.0             |
|                     | High Channel   | 810            | 1909.8             |
| WCDMA Band 2        | Low Channel    | 9262           | 1852.4             |
|                     | Middle Channel | 9400           | 1880.0             |
|                     | High Channel   | 9538           | 1907.6             |
| WCDMA Band 4        | Low Channel    | 1312           | 1712.4             |
|                     | Middle Channel | 1412           | 1732.4             |
|                     | High Channel   | 1513           | 1752.6             |
| WCDMA Band 5        | Low Channel    | 4132           | 826.4              |
|                     | Middle Channel | 4182           | 836.4              |
|                     | High Channel   | 4233           | 846.6              |

| LTE Band                               | Bandwidth (MHz) |    |    |    |    |    | Modulation Type |        | RB# |      |      | Test Channel |     |     |
|--|-----------------|----|----|----|----|----|-----------------|--------|-----|------|------|--------------|-----|-----|
|  | 1.4             | 3  | 5  | 10 | 15 | 20 | QPSK            | 16-QAM | 1   | Half | Full | LCH          | MCH | HCH |
| Effective (Isotropic) Radiated Power   |                 |    |    |    |    |    |                 |        |     |      |      |              |     |     |
| 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   |
| 38                                     | n               | n  | v  | v  | v  | v  | v               | v      | v   | v    | v    | v            | v   | v   |
| 41                                     | n               | n  | v  | v  | v  | v  | v               | v      | v   | v    | v    | v            | v   | v   |
| 66                                     | v               | v  | 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   |
| 38                                     | n               | n  | -- | -- | -- | v  | v               | v      | v   | --   | v    | v            | v   | v   |
| 41                                     | n               | n  | -- | -- | -- | v  | v               | v      | v   | --   | v    | v            | v   | v   |
| 66                                     | --              | -- | -- | -- | -- | 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   |
| 38                                     | n               | n  | v  | v  | v  | v  | v               | v      | --  | --   | v    | v            | v   | v   |
| 41                                     | n               | n  | v  | v  | v  | v  | v               | v      | --  | --   | v    | v            | v   | v   |
| 66                                     | v               | v  | 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   | --  |
| 38                                     | n               | n  | -- | v  | -- | -- | v               | v      | --  | --   | v    | --           | v   | --  |
| 41                                     | n               | n  | -- | v  | -- | -- | v               | v      | --  | --   | v    | --           | v   | --  |
| 66                                     | --              | -- | -- | 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   |
| 38                                     | n               | n  | v  | v  | v  | v  | v               | v      | v   | --   | --   | v            | v   | v   |
| 41                                     | n               | n  | v  | v  | v  | v  | v               | v      | v   | --   | --   | v            | v   | v   |
| 66                                     | v               | v  | 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   |

| LTE Band  | Bandwidth (MHz) |   |   |    |    |    | Modulation Type |        | RB# |      |      | Test Channel |     |     |
|---|-----------------|---|---|----|----|----|-----------------|--------|-----|------|------|--------------|-----|-----|
|   | 1.4             | 3 | 5 | 10 | 15 | 20 | QPSK            | 16-QAM | 1   | Half | Full | LCH          | MCH | HCH |
| 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   |
| 38  | n               | n | v | v  | v  | v  | v               | v      | v   | --   | v    | v            | --  | v   |
| 41  | n               | n | v | v  | v  | v  | v               | v      | v   | --   | v    | v            | --  | v   |
| 66  | v               | v | v | v  | v  | v  | v               | v      | v   | --   | v    | v            | --  | v   |
| <b>Field Strength of Spurious Radiation</b>   |                 |   |   |    |    |    |                 |        |     |      |      |              |     |     |
| 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   | --  |
| 38  | n               | n | v | v  | v  | v  | v               | --     | v   | --   | --   | --           | v   | --  |
| 41  | n               | n | v | v  | v  | v  | v               | --     | v   | --   | --   | --           | v   | --  |
| 66  | v               | v | v | v  | v  | v  | v               | --     | v   | --   | --   | --           | v   | --  |
| Note 1: The mark "v" means that this configuration is chosen for testing.<br>Note 2: The mark "n" means that this bandwidth is not supported. |                 |   |   |    |    |    |                 |        |     |      |      |              |     |     |



| 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               |
|              | Middle 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               |
|              | Middle 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                |
|              | Middle 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              |
| 10           |              |                         | 20800          | 2505               |
| 15           |              |                         | 20825          | 2507.5             |
| 20           |              |                         | 20850          | 2510               |
| Middle Range |              | 5/10/15/20              | 21100          | 2535               |
| High Range   |              | 5                       | 21425          | 2567.5             |
|              |              | 10                      | 21400          | 2565               |
|              | 15           | 21375                   | 2562.5         |                    |

| Test Mode   | UL Channel   | Channel Bandwidth (MHz) | UL Channel No. | UL Frequency (MHz) |
|-------------|--------------|-------------------------|----------------|--------------------|
|             |              | 20                      | 21350          | 2560               |
| LTE Band 38 | Low Range    | 5                       | 37775          | 2572.5             |
|             |              | 10                      | 37800          | 2575               |
|             |              | 15                      | 37825          | 2577.5             |
|             |              | 20                      | 37850          | 2580               |
|             | Middle Range | 5/10/15/20              | 38000          | 2595               |
|             | High Range   | 5                       | 38225          | 2617.5             |
|             |              | 10                      | 38200          | 2615               |
|             |              | 15                      | 38175          | 2612.5             |
| 20          |              | 38150                   | 2610           |                    |
| LTE Band 41 | Low Range    | 5                       | 39675          | 2498.5             |
|             |              | 10                      | 39700          | 2501               |
|             |              | 15                      | 39725          | 2503.5             |
|             |              | 20                      | 39750          | 2506               |
|             | Middle Range | 5/10/15/20              | 40620          | 2593               |
|             | High Range   | 5                       | 41565          | 2687.5             |
|             |              | 10                      | 41540          | 2685               |
|             |              | 15                      | 41515          | 2682.5             |
| 20          |              | 41490                   | 2680           |                    |
| LTE Band 66 | Low Range    | 1.4                     | 131979         | 1710.7             |
|             |              | 3                       | 131987         | 1711.5             |
|             |              | 5                       | 131997         | 1712.5             |
|             |              | 10                      | 132022         | 1715               |
|             |              | 15                      | 132047         | 1717.5             |
|             |              | 20                      | 132072         | 1720               |
|             | Middle Range | 1.4/3/5/10/15/20        | 132322         | 1745               |
|             | High Range   | 1.4                     | 132665         | 1779.3             |
|             |              | 3                       | 132657         | 1778.5             |
|             |              | 5                       | 132647         | 1777.5             |
|             |              | 10                      | 132622         | 1775               |
|             |              | 15                      | 132597         | 1772.5             |
| 20          |              | 132572                  | 1770           |                    |

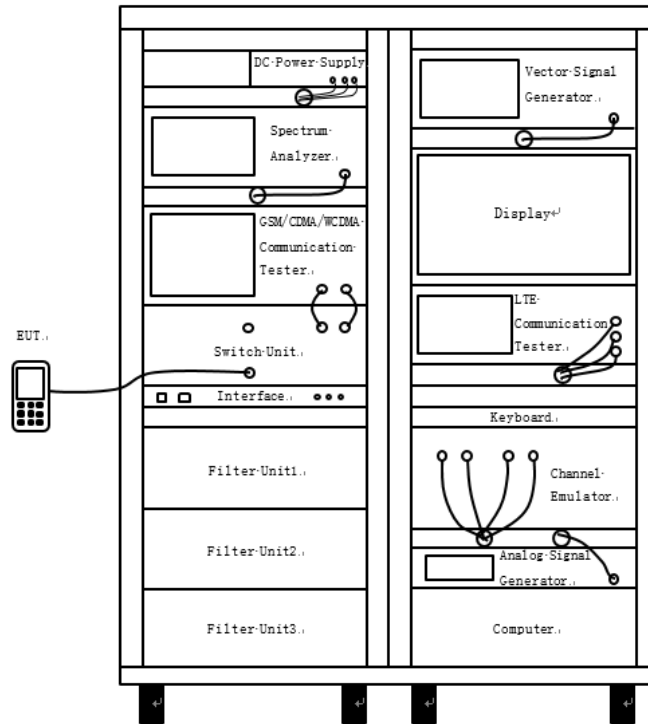
| Test frequencies for CA_7C |                               |            |                 |                          |                 |                          |            |                 |                          |                 |                          |
|----------------------------|-------------------------------|------------|-----------------|--------------------------|-----------------|--------------------------|------------|-----------------|--------------------------|-----------------|--------------------------|
| Range                      | CC-Combo /<br>NRB_agg<br>[RB] | CC1        |                 |                          |                 |                          | CC2        |                 |                          |                 |                          |
|                            |                               | BW<br>[RB] | N <sub>UL</sub> | f <sub>UL</sub><br>[MHz] | N <sub>DL</sub> | f <sub>DL</sub><br>[MHz] | BW<br>[RB] | N <sub>UL</sub> | f <sub>UL</sub><br>[MHz] | N <sub>DL</sub> | f <sub>DL</sub><br>[MHz] |
| Low                        | 50+100                        | 50         | 20805           | 2505.5                   | 2805            | 2625.5                   | 100        | 20949           | 2519.9                   | 2949            | 2639.9                   |
|                            |                               | 100        | 20850           | 2510                     | 2850            | 2630                     | 50         | 20994           | 2524.4                   | 2994            | 2644.4                   |
|                            | 75+50                         | 75         | 20825           | 2507.5                   | 2825            | 2627.5                   | 50         | 20945           | 2519.5                   | 2945            | 2639.5                   |
|                            | 75+75                         | 75         | 20825           | 2507.5                   | 2825            | 2627.5                   | 75         | 20975           | 2522.5                   | 2975            | 2642.5                   |
|                            | 75+100                        | 75         | 20828           | 2507.8                   | 2828            | 2627.8                   | 100        | 20999           | 2524.9                   | 2999            | 2644.9                   |
|                            |                               | 100        | 20850           | 2510                     | 2850            | 2630                     | 75         | 21021           | 2527.1                   | 3021            | 2647.1                   |
| 100+100                    | 100                           | 20850      | 2510            | 2850                     | 2630            | 100                      | 21048      | 2529.8          | 3048                     | 2649.8          |                          |
| Mid                        | 50+100                        | 50         | 21006           | 2525.6                   | 3006            | 2645.6                   | 100        | 21150           | 2540                     | 3150            | 2660                     |
|                            |                               | 100        | 21051           | 2530.1                   | 3051            | 2650.1                   | 50         | 21195           | 2544.5                   | 3195            | 2664.5                   |
|                            | 75+50                         | 75         | 21051           | 2530.1                   | 3051            | 2650.1                   | 50         | 21171           | 2542.1                   | 3171            | 2662.1                   |
|                            | 75+75                         | 75         | 21025           | 2527.5                   | 3025            | 2647.5                   | 75         | 21175           | 2542.5                   | 3175            | 2662.5                   |
|                            | 75+100                        | 75         | 21003           | 2525.3                   | 3003            | 2645.3                   | 100        | 21174           | 2542.4                   | 3174            | 2662.4                   |
|                            |                               | 100        | 21026           | 2527.6                   | 3026            | 2647.6                   | 75         | 21197           | 2544.7                   | 3197            | 2664.7                   |
| 100+100                    | 100                           | 21001      | 2525.1          | 3001                     | 2645.1          | 100                      | 21199      | 2544.9          | 3199                     | 2664.9          |                          |
| High                       | 50+100                        | 50         | 21206           | 2545.6                   | 3206            | 2665.6                   | 100        | 21350           | 2560                     | 3350            | 2680                     |
|                            |                               | 100        | 21251           | 2550.1                   | 3251            | 2670.1                   | 50         | 21395           | 2564.5                   | 3395            | 2684.5                   |
|                            | 75+50                         | 75         | 21277           | 2552.7                   | 3277            | 2672.7                   | 50         | 21397           | 2564.7                   | 3397            | 2684.7                   |
|                            | 75+75                         | 75         | 21225           | 2547.5                   | 3225            | 2667.5                   | 75         | 21375           | 2562.5                   | 3375            | 2682.5                   |
|                            | 75+100                        | 75         | 21179           | 2542.9                   | 3179            | 2662.9                   | 100        | 21350           | 2560                     | 3350            | 2680                     |
|                            |                               | 100        | 21201           | 2545.1                   | 3201            | 2665.1                   | 75         | 21372           | 2562.2                   | 3372            | 2682.2                   |
| 100+100                    | 100                           | 21152      | 2540.2          | 3152                     | 2660.2          | 100                      | 21350      | 2560            | 3350                     | 2680            |                          |

| Test frequencies for CA_38C |                               |            |                    |                             |            |                    |                             |
|-----------------------------|-------------------------------|------------|--------------------|-----------------------------|------------|--------------------|-----------------------------|
| Range                       | CC-Combo /<br>NRB_agg<br>[RB] | CC1        |                    |                             | CC2        |                    |                             |
|                             |                               | BW<br>[RB] | N <sub>UL/DL</sub> | f <sub>UL/DL</sub><br>[MHz] | BW<br>[RB] | N <sub>UL/DL</sub> | f <sub>UL/DL</sub><br>[MHz] |
| Low                         | 75+75                         | 75         | 37825              | 2577.5                      | 75         | 37975              | 2592.5                      |
|                             | 100+100                       | 100        | 37850              | 2580                        | 100        | 38048              | 2599.8                      |
| Mid                         | 75+75                         | 75         | 37925              | 2587.5                      | 75         | 38075              | 2602.5                      |
|                             | 100+100                       | 100        | 37901              | 2585.1                      | 100        | 38099              | 2604.9                      |
| High                        | 75+75                         | 75         | 38025              | 2597.5                      | 75         | 38175              | 2612.5                      |
|                             | 100+100                       | 100        | 37952              | 2590.2                      | 100        | 38150              | 2610                        |

| Test frequencies for CA_41C (2496-2690MHz) |                               |            |                    |                             |            |                    |                             |
|--|-------------------------------|------------|--------------------|-----------------------------|------------|--------------------|-----------------------------|
| Range                                      | CC-Combo /<br>NRB_agg<br>[RB] | CC1        |                    |                             | CC2        |                    |                             |
|  |                               | BW<br>[RB] | N <sub>UL/DL</sub> | f <sub>UL/DL</sub><br>[MHz] | BW<br>[RB] | N <sub>UL/DL</sub> | f <sub>UL/DL</sub><br>[MHz] |
| Low  | 25+100                        | 25         | 39683              | 2499.3                      | 100        | 39800              | 2511                        |
|  |                               | 100        | 39750              | 2506                        | 25         | 39867              | 2517.7                      |
|  | 50+75                         | 50         | 39703              | 2501.3                      | 75         | 39823              | 2513.3                      |
|  |                               | 75         | 39725              | 2503.5                      | 50         | 39845              | 2515.5                      |
|  | 50+100                        | 50         | 39705              | 2501.5                      | 100        | 39849              | 2515.9                      |
|  |                               | 100        | 39750              | 2506                        | 50         | 39894              | 2520.4                      |
|  | 75+75                         | 75         | 39725              | 2503.5                      | 75         | 39875              | 2518.5                      |
|  | 75+100                        | 75         | 39728              | 2503.8                      | 100        | 39899              | 2520.9                      |
|  |                               | 100        | 39750              | 2506                        | 75         | 39921              | 2523.1                      |
|  | 100+100                       | 100        | 39750              | 2506                        | 100        | 39948              | 2525.8                      |
| Mid  | 25+100                        | 25         | 40528              | 2583.8                      | 100        | 40645              | 2595.5                      |
|  |                               | 100        | 40595              | 2590.5                      | 25         | 40712              | 2602.2                      |
|  | 50+75                         | 50         | 40549              | 2585.9                      | 75         | 40669              | 2597.9                      |
|  |                               | 75         | 40571              | 2588.1                      | 50         | 40691              | 2600.1                      |
|  | 50+100                        | 50         | 40526              | 2583.6                      | 100        | 40670              | 2598.0                      |
|  |                               | 100        | 40571              | 2588.1                      | 50         | 40715              | 2602.5                      |
|  | 75+75                         | 75         | 40545              | 2585.5                      | 75         | 40695              | 2600.5                      |
|  | 75+100                        | 75         | 40523              | 2583.3                      | 100        | 40694              | 2600.4                      |
|  |                               | 100        | 40546              | 2585.6                      | 75         | 40717              | 2602.7                      |
|  | 100+100                       | 100        | 40521              | 2583.1                      | 100        | 40719              | 2602.9                      |
| High                                       | 25+100                        | 25         | 41373              | 2668.3                      | 100        | 41490              | 2680                        |
|  |                               | 100        | 41440              | 2675                        | 25         | 41557              | 2686.7                      |
|  | 50+75                         | 50         | 41395              | 2670.5                      | 75         | 41515              | 2682.5                      |
|  |                               | 75         | 41417              | 2672.7                      | 50         | 41537              | 2684.7                      |
|  | 50+100                        | 50         | 41346              | 2665.6                      | 100        | 41490              | 2680                        |
|  |                               | 100        | 41391              | 2670.1                      | 50         | 41535              | 2684.5                      |
|  | 75+75                         | 75         | 41365              | 2667.5                      | 75         | 41515              | 2682.5                      |
|  | 75+100                        | 75         | 41319              | 2662.9                      | 100        | 41490              | 2680                        |
|  |                               | 100        | 41341              | 2665.1                      | 75         | 41512              | 2682.2                      |
|  | 100+100                       | 100        | 41292              | 2660.2                      | 100        | 41490              | 2680                        |

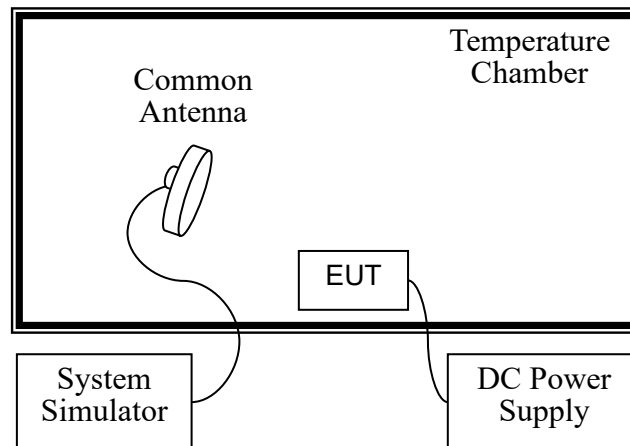
## 4.4 Test Setup

### 4.4.1 For Antenna Port Test



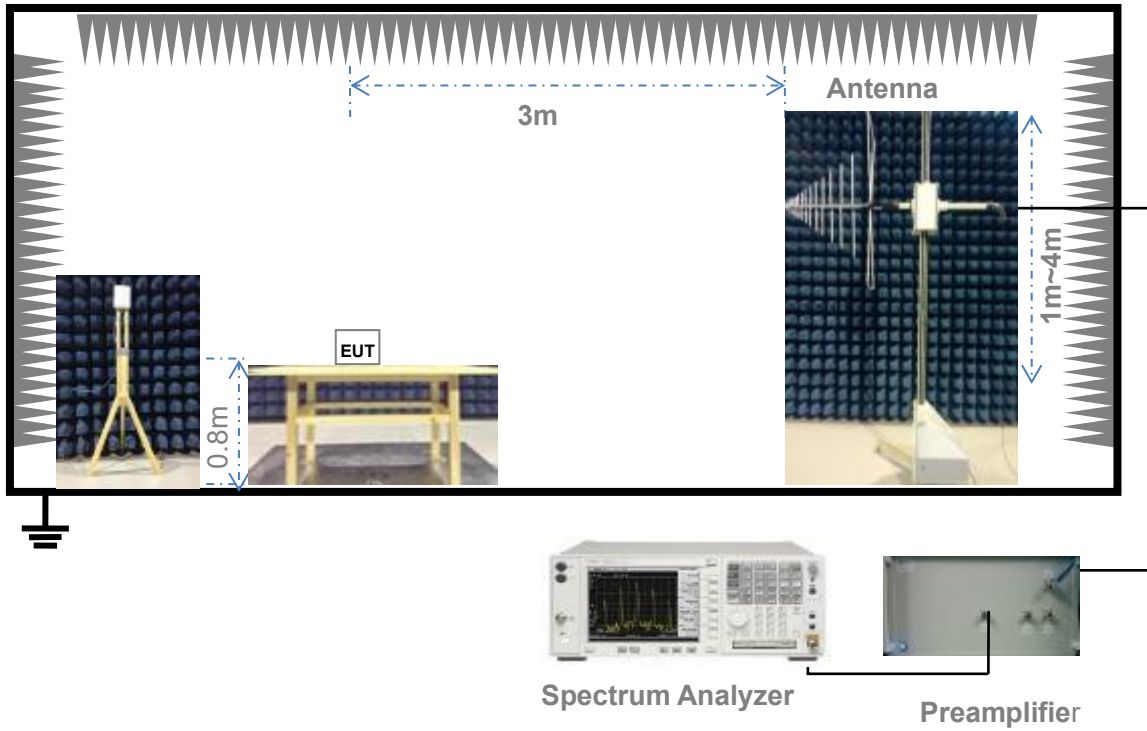
(Diagram 1)

### 4.4.2 For Frequency Stability Test



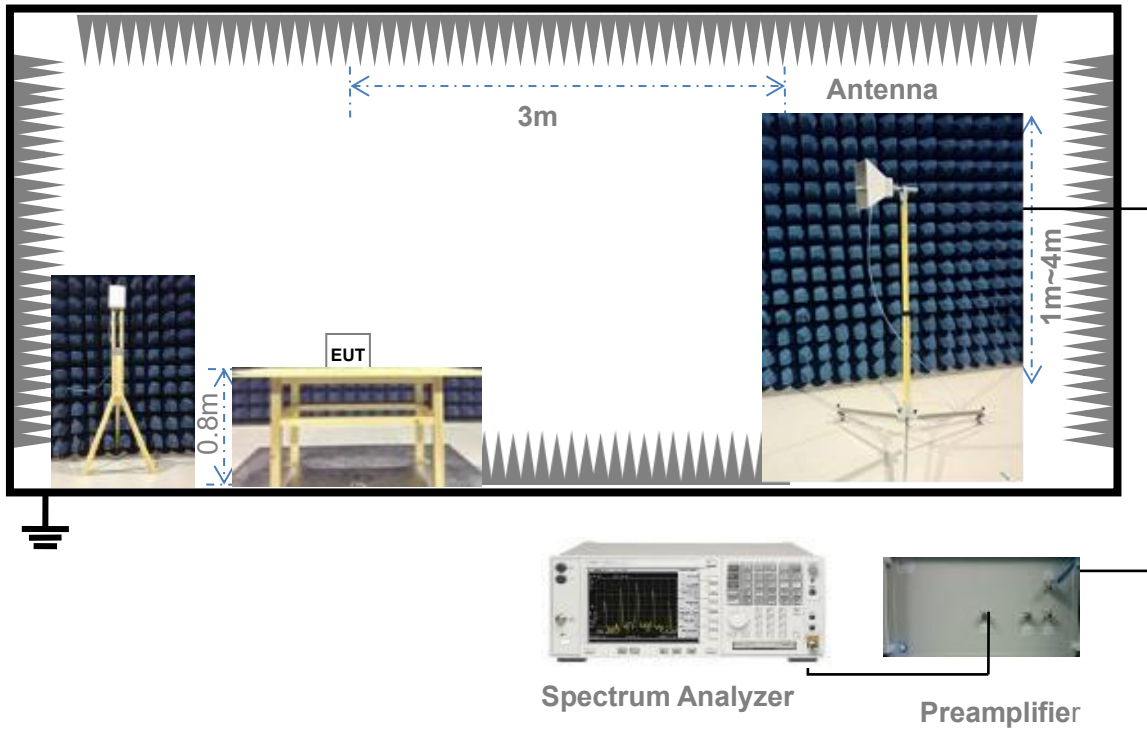
(Diagram 2)

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 & 22.913(a) & 24.232(c) & 27.50(a) & 27.50(b) & 27.50(c) & 27.50(d) & 27.50(h)

According to FCC section 22.913(a) (5), 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(a) (3), for mobile and portable stations transmitting in the 2305-2315MHz band or the 2350-2360MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards.

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 600MHz uplink band and the 698-746MHz band, and fixed and mobile stations in the 600MHz uplink 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.

#### 5.1.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description is used for conducted test, and the section 4.4.3 and 4.4.4 (Diagram 3, 4) test setup description is used for radiated 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.

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);

$P_{\text{Meas}}$  = 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 EIRP test, when  $P_{\text{Meas}}$  value for GSM1900 is 30.2 dBm, LC is 0.6 dB, and GT is -3.4 dB, then final EIRP value is:

$$\text{EIRP for GSM1900} = 30.2 \text{ dBm} - 3.4 \text{ dBi} - 0.6 \text{ dB} = 26.2 \text{ dBm}$$

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:

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

#### 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)

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.

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) (5), 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:

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

#### 5.2.4 Test Result

Please refer to ANNEX A.2.

## 5.3 Occupied Bandwidth

### 5.3.1 Limit

FCC § 2.1049

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.

#### 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

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 25°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 and -30°C is reached.
5. Change supply voltage, and repeat measurement until extreme voltage is reached.

#### 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(a) & 27.53(c) & 27.53(f) & 27.53(g) & 27.53(h) & 27.53(m)

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(a) (4)

For mobile and portable stations operating in the 2305-2315MHz and 2350-2360MHz bands:

(1) By a factor of not less than:  $43 + 10 \log(P)$  dB on all frequencies between 2305 and 2320MHz and on all frequencies between 2345 and 2360MHz that are outside the licensed band(s) of operation, not less than  $55 + 10 \log(P)$  dB on all frequencies between 2320 and 2324MHz and on all frequencies between 2341 and 2345MHz, not less than  $61 + 10 \log(P)$  dB on all frequencies between 2324 and 2328MHz and on all frequencies between 2337 and 2341MHz, and not less than  $67 + 10 \log(P)$  dB on all frequencies between 2328 and 2337MHz.

(2) By a factor of not less than  $43 + 10 \log(P)$  dB on all frequencies between 2300 and 2305MHz,  $55 + 10 \log(P)$  dB on all frequencies between 2296 and 2300MHz,  $61 + 10 \log(P)$  dB on all frequencies between 2292 and 2296MHz,  $67 + 10 \log(P)$  dB on all frequencies between 2288 and 2292MHz, and  $70 + 10 \log(P)$  dB below 2288MHz.

(3) By a factor of not less than  $43 + 10 \log(P)$  dB on all frequencies between 2360 and 2365MHz, and not less than  $70 + 10 \log(P)$  dB above 2365MHz.

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;

(3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than  $76 + 10 \log(P)$  dB in a 6.25 kHz band segment, for base and fixed stations;



(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(f)

For operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to - 70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and - 80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

#### 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)

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 50Ohm; 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 0.001MHz RBW for frequency less than 150kHz, 0.01MHz RBW for frequency less than 30MHz, 0.1MHz RBW for frequency less than 1GHz, and 1MHz RBW for frequency above 1GHz. And sweep point number are at least 401, referring to following formula.

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

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

$$\text{Detector Mode} = \text{mean or average power}$$

5. Record the frequencies and levels of spurious emissions.

### 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(a) & 27.53(c) & 27.53(g) & 27.53(h) & 27.53(m)

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(a) (4)

For mobile and portable stations operating in the 2305-2315MHz and 2350-2360MHz bands:

(1) By a factor of not less than:  $43 + 10 \log(P)$  dB on all frequencies between 2305 and 2320MHz and on all frequencies between 2345 and 2360MHz that are outside the licensed band(s) of operation, not less than  $55 + 10 \log(P)$  dB on all frequencies between 2320 and 2324MHz and on all frequencies between 2341 and 2345MHz, not less than  $61 + 10 \log(P)$  dB on all frequencies between 2324 and 2328MHz and on all frequencies between 2337 and 2341MHz, and not less than  $67 + 10 \log(P)$  dB on all frequencies between 2328 and 2337MHz.

(2) By a factor of not less than  $43 + 10 \log(P)$  dB on all frequencies between 2300 and 2305MHz,  $55 + 10 \log(P)$  dB on all frequencies between 2296 and 2300MHz,  $61 + 10 \log(P)$  dB on all frequencies between 2292 and 2296MHz,  $67 + 10 \log(P)$  dB on all frequencies between 2288 and 2292MHz, and  $70 + 10 \log(P)$  dB below 2288MHz.

(3) By a factor of not less than  $43 + 10 \log(P)$  dB on all frequencies between 2360 and 2365MHz, and not less than  $70 + 10 \log(P)$  dB above 2365MHz.

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;

(3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than  $76 + 10 \log(P)$  dB in a 6.25 kHz band segment, for base and fixed stations;

(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)

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%\*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.

For mobile and portable stations, 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. Since it was not possible to set the resolution bandwidth to 6.25 kHz with the available equipment, a bandwidth of 10 kHz was used instead to show compliance. By using a 10 kHz bandwidth on the spectrum analyzer.

$$10 * \log(10 \text{ kHz} / 6.25 \text{ kHz}) = 2.04 \text{ dB}$$

$$\text{Limit Line} = -35 \text{ dBm} + 2.04 \text{ dB} = -32.96 \text{ dBm}$$

### 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(a) & 27.53(c) & 27.53(f) & 27.53(g) & 27.53(h) & 27.53(m)

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(a) (4)

For mobile and portable stations operating in the 2305-2315MHz and 2350-2360MHz bands:

(1) By a factor of not less than:  $43 + 10 \log(P)$  dB on all frequencies between 2305 and 2320MHz and on all frequencies between 2345 and 2360MHz that are outside the licensed band(s) of operation, not less than  $55 + 10 \log(P)$  dB on all frequencies between 2320 and 2324MHz and on all frequencies between 2341 and 2345MHz, not less than  $61 + 10 \log(P)$  dB on all frequencies between 2324 and 2328MHz and on all frequencies between 2337 and 2341MHz, and not less than  $67 + 10 \log(P)$  dB on all frequencies between 2328 and 2337MHz.

(2) By a factor of not less than  $43 + 10 \log(P)$  dB on all frequencies between 2300 and 2305MHz,  $55 + 10 \log(P)$  dB on all frequencies between 2296 and 2300MHz,  $61 + 10 \log(P)$  dB on all frequencies between 2292 and 2296MHz,  $67 + 10 \log(P)$  dB on all frequencies between 2288 and 2292MHz, and  $70 + 10 \log(P)$  dB below 2288MHz.

(3) By a factor of not less than  $43 + 10 \log(P)$  dB on all frequencies between 2360 and 2365MHz, and not less than  $70 + 10 \log(P)$  dB above 2365MHz.

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;

(3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than  $76 + 10 \log(P)$  dB in a 6.25 kHz band segment, for base and fixed stations;

(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(f)

For operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to - 70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and - 80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

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)

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 80cm 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° 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 ~ 849 MHz) or horn antenna (1 850 ~ 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:

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

#### 5.7.4 Test Result

Please refer to ANNEX A.7.

## ANNEX A TEST RESULTS

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

#### GSM Mode Test Data

| Test Band | Test Channel | Conducted Output Peak Power (dBm) | Antenna Gain (dBi) | Antenna Gain (dBd) | ERP (dBm) | ERP (W) | Limit (W) | Verdict |
|-----------|--------------|-----------------------------------|--------------------|--------------------|-----------|---------|-----------|---------|
| GSM 850   | LCH          | 33.13                             | -5.29              | -7.44              | 25.69     | 0.371   | 7.000     | Pass    |
|           | MCH          | 33.21                             | -5.29              | -7.44              | 25.77     | 0.378   | 7.000     | Pass    |
|           | HCH          | 33.22                             | -5.29              | -7.44              | 25.78     | 0.378   | 7.000     | Pass    |
| GPRS 850  | LCH          | 33.18                             | -5.29              | -7.44              | 25.74     | 0.375   | 7.000     | Pass    |
|           | MCH          | 33.23                             | -5.29              | -7.44              | 25.79     | 0.379   | 7.000     | Pass    |
|           | HCH          | 33.24                             | -5.29              | -7.44              | 25.80     | 0.380   | 7.000     | Pass    |
| EGPRS 850 | LCH          | 30.40                             | -5.29              | -7.44              | 22.96     | 0.198   | 7.000     | Pass    |
|           | MCH          | 30.52                             | -5.29              | -7.44              | 23.08     | 0.203   | 7.000     | Pass    |
|           | HCH          | 30.50                             | -5.29              | -7.44              | 23.06     | 0.202   | 7.000     | Pass    |

| Test Band  | Test Channel | Conducted Output Peak Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|------------|--------------|-----------------------------------|--------------------|------------|----------|-----------|---------|
| GSM 1900   | LCH          | 30.42                             | -4.69              | 25.73      | 0.374    | 2.000     | Pass    |
|            | MCH          | 30.32                             | -4.69              | 25.63      | 0.366    | 2.000     | Pass    |
|            | HCH          | 30.39                             | -4.69              | 25.70      | 0.372    | 2.000     | Pass    |
| GPRS 1900  | LCH          | 30.48                             | -4.69              | 25.79      | 0.379    | 2.000     | Pass    |
|            | MCH          | 30.35                             | -4.69              | 25.66      | 0.368    | 2.000     | Pass    |
|            | HCH          | 30.42                             | -4.69              | 25.73      | 0.374    | 2.000     | Pass    |
| EGPRS 1900 | LCH          | 29.10                             | -4.69              | 24.41      | 0.276    | 2.000     | Pass    |
|            | MCH          | 29.17                             | -4.69              | 24.48      | 0.281    | 2.000     | Pass    |
|            | HCH          | 29.53                             | -4.69              | 24.84      | 0.305    | 2.000     | Pass    |

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

Note 2:  $ERP/EIRP = P_{Meas} + GT - LC$

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

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

$ERP = EIRP - 2.15$ ; where ERP and EIRP are expressed in consistent units.

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).

**GPRS Conducted Output Power**

| Band      | Channel | Conducted Output Peak Power |            |               |             |               |             |               |             |
|-----------|---------|-----------------------------|------------|---------------|-------------|---------------|-------------|---------------|-------------|
|           |         | 1 Slot (dBm)                | 1 Slot (W) | 2 Slots (dBm) | 2 Slots (W) | 3 Slots (dBm) | 3 Slots (W) | 4 Slots (dBm) | 4 Slots (W) |
| GPRS 850  | LCH     | 33.18                       | 2.080      | 31.84         | 1.528       | 29.89         | 0.976       | 27.85         | 0.609       |
|           | MCH     | 33.23                       | 2.104      | 31.90         | 1.547       | 29.92         | 0.982       | 27.92         | 0.619       |
|           | HCH     | 33.24                       | 2.109      | 31.92         | 1.556       | 29.94         | 0.986       | 27.88         | 0.614       |
| GPRS 1900 | LCH     | 30.48                       | 1.117      | 28.43         | 0.697       | 26.39         | 0.436       | 24.40         | 0.275       |
|           | MCH     | 30.35                       | 1.084      | 28.47         | 0.702       | 26.46         | 0.442       | 24.47         | 0.280       |
|           | HCH     | 30.42                       | 1.102      | 28.68         | 0.738       | 26.76         | 0.475       | 24.79         | 0.301       |

**EGPRS Conducted Output Power**

| Band       | Channel | Conducted Output Peak Power |            |               |             |               |             |               |             |
|------------|---------|-----------------------------|------------|---------------|-------------|---------------|-------------|---------------|-------------|
|            |         | 1 Slot (dBm)                | 1 Slot (W) | 2 Slots (dBm) | 2 Slots (W) | 3 Slots (dBm) | 3 Slots (W) | 4 Slots (dBm) | 4 Slots (W) |
| EGPRS 850  | LCH     | 30.40                       | 1.096      | 28.25         | 0.668       | 26.08         | 0.405       | 24.08         | 0.256       |
|            | MCH     | 30.52                       | 1.127      | 28.22         | 0.663       | 26.05         | 0.403       | 24.18         | 0.262       |
|            | HCH     | 30.50                       | 1.122      | 28.34         | 0.682       | 26.19         | 0.416       | 24.15         | 0.260       |
| EGPRS 1900 | LCH     | 29.10                       | 0.813      | 27.32         | 0.539       | 25.28         | 0.337       | 23.26         | 0.212       |
|            | MCH     | 29.17                       | 0.826      | 27.57         | 0.571       | 25.49         | 0.354       | 23.51         | 0.225       |
|            | HCH     | 29.53                       | 0.897      | 27.87         | 0.612       | 25.91         | 0.390       | 23.84         | 0.242       |

## WCDMA Mode Test Data

| Test Band    | Test Channel | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|--------------|--------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| WCDMA Band 2 | LCH          | 23.02                           | -4.69              | 18.33      | 0.068    | 2.000     | Pass    |
|              | MCH          | 22.97                           | -4.69              | 18.28      | 0.067    | 2.000     | Pass    |
|              | HCH          | 23.17                           | -4.69              | 18.48      | 0.070    | 2.000     | Pass    |
| HSDPA Band 2 | LCH          | 22.03                           | -4.69              | 17.34      | 0.054    | 2.000     | Pass    |
|              | MCH          | 21.99                           | -4.69              | 17.30      | 0.054    | 2.000     | Pass    |
|              | HCH          | 22.16                           | -4.69              | 17.47      | 0.056    | 2.000     | Pass    |
| HSUPA Band 2 | LCH          | 21.02                           | -4.69              | 16.33      | 0.043    | 2.000     | Pass    |
|              | MCH          | 20.93                           | -4.69              | 16.24      | 0.042    | 2.000     | Pass    |
|              | HCH          | 21.13                           | -4.69              | 16.44      | 0.044    | 2.000     | Pass    |

| Test Band    | Test Channel | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|--------------|--------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| WCDMA Band 4 | LCH          | 22.95                           | -3.35              | 19.60      | 0.091    | 1.00      | Pass    |
|              | MCH          | 22.99                           | -3.35              | 19.64      | 0.092    | 1.00      | Pass    |
|              | HCH          | 22.94                           | -3.35              | 19.59      | 0.091    | 1.00      | Pass    |
| HSDPA Band 4 | LCH          | 21.99                           | -3.35              | 18.64      | 0.073    | 1.00      | Pass    |
|              | MCH          | 21.99                           | -3.35              | 18.64      | 0.073    | 1.00      | Pass    |
|              | HCH          | 21.92                           | -3.35              | 18.57      | 0.072    | 1.00      | Pass    |
| HSUPA Band 4 | LCH          | 20.95                           | -3.35              | 17.60      | 0.058    | 1.00      | Pass    |
|              | MCH          | 20.95                           | -3.35              | 17.60      | 0.058    | 1.00      | Pass    |
|              | HCH          | 20.91                           | -3.35              | 17.56      | 0.057    | 1.00      | Pass    |

| Test Band    | Test Channel | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | Antenna Gain (dBd) | ERP (dBm) | ERP (W) | Limit (W) | Verdict |
|--------------|--------------|---------------------------------|--------------------|--------------------|-----------|---------|-----------|---------|
| WCDMA Band 5 | LCH          | 23.16                           | -5.29              | -7.44              | 15.72     | 0.037   | 7.000     | Pass    |
|              | MCH          | 23.21                           | -5.29              | -7.44              | 15.77     | 0.038   | 7.000     | Pass    |
|              | HCH          | 23.25                           | -5.29              | -7.44              | 15.81     | 0.038   | 7.000     | Pass    |
| HSDPA Band 5 | LCH          | 22.14                           | -5.29              | -7.44              | 14.70     | 0.030   | 7.000     | Pass    |
|              | MCH          | 22.22                           | -5.29              | -7.44              | 14.78     | 0.030   | 7.000     | Pass    |
|              | HCH          | 22.28                           | -5.29              | -7.44              | 14.84     | 0.030   | 7.000     | Pass    |
| HSUPA Band 5 | LCH          | 21.14                           | -5.29              | -7.44              | 13.70     | 0.023   | 7.000     | Pass    |
|              | MCH          | 21.20                           | -5.29              | -7.44              | 13.76     | 0.024   | 7.000     | Pass    |
|              | HCH          | 21.22                           | -5.29              | -7.44              | 13.78     | 0.024   | 7.000     | Pass    |

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

Note 2:  $ERP/EIRP = P_{Meas} + GT - LC$

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

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

ERP = EIRP – 2.15; where ERP and EIRP are expressed in consistent units.

#### 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     | 22.03                          | 0.160 | 22.03    | 0.160 | 21.53    | 0.142 | 21.52    | 0.142 |
|                 | MCH     | 21.99                          | 0.158 | 21.94    | 0.156 | 21.46    | 0.140 | 21.42    | 0.139 |
|                 | HCH     | 22.16                          | 0.164 | 22.15    | 0.164 | 21.62    | 0.145 | 21.64    | 0.146 |
| HSDPA<br>Band 4 | LCH     | 21.99                          | 0.158 | 21.98    | 0.158 | 21.44    | 0.139 | 21.43    | 0.139 |
|                 | MCH     | 21.99                          | 0.158 | 21.95    | 0.157 | 21.45    | 0.140 | 21.43    | 0.139 |
|                 | HCH     | 21.92                          | 0.156 | 21.88    | 0.154 | 21.38    | 0.137 | 21.39    | 0.138 |
| HSDPA<br>Band 5 | LCH     | 22.14                          | 0.164 | 22.14    | 0.164 | 21.66    | 0.147 | 21.63    | 0.146 |
|                 | MCH     | 22.22                          | 0.167 | 22.17    | 0.165 | 21.67    | 0.147 | 21.66    | 0.147 |
|                 | HCH     | 22.28                          | 0.169 | 22.16    | 0.164 | 21.71    | 0.148 | 21.72    | 0.149 |

#### 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     | 19.98                          | 0.100 | 20.02    | 0.100 | 21.02    | 0.126 | 19.53    | 0.090 | 20.98    | 0.125 |
|                 | MCH     | 19.91                          | 0.098 | 19.92    | 0.098 | 20.93    | 0.124 | 19.43    | 0.088 | 20.91    | 0.123 |
|                 | HCH     | 20.12                          | 0.103 | 20.15    | 0.104 | 21.13    | 0.130 | 19.65    | 0.092 | 21.09    | 0.129 |
| HSUPA<br>Band 4 | LCH     | 20.01                          | 0.100 | 20.03    | 0.101 | 20.95    | 0.124 | 19.57    | 0.091 | 20.93    | 0.124 |
|                 | MCH     | 20.02                          | 0.100 | 20.02    | 0.100 | 20.95    | 0.124 | 19.53    | 0.090 | 20.90    | 0.123 |
|                 | HCH     | 19.93                          | 0.098 | 19.95    | 0.099 | 20.91    | 0.123 | 19.44    | 0.088 | 20.86    | 0.122 |
| HSUPA<br>Band 5 | LCH     | 20.20                          | 0.105 | 20.22    | 0.105 | 21.14    | 0.130 | 19.72    | 0.094 | 21.11    | 0.129 |
|                 | MCH     | 20.24                          | 0.106 | 20.27    | 0.106 | 21.20    | 0.132 | 19.75    | 0.094 | 21.15    | 0.130 |
|                 | HCH     | 20.19                          | 0.104 | 20.20    | 0.105 | 21.22    | 0.132 | 19.76    | 0.095 | 21.19    | 0.132 |

## LTE Mode Test Data

| Test BW          | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND2</b> |              |           |                       |                                 |                    |            |          |           |         |
| 1.4 MHz          | LCH          | QPSK      | RB1#0                 | 22.55                           | -4.69              | 17.86      | 0.061    | 2.000     | Pass    |
|                  |              |           | RB1#3                 | 22.67                           | -4.69              | 17.98      | 0.063    | 2.000     | Pass    |
|                  |              |           | RB1#5                 | 22.48                           | -4.69              | 17.79      | 0.060    | 2.000     | Pass    |
|                  |              |           | RB3#0                 | 22.62                           | -4.69              | 17.93      | 0.062    | 2.000     | Pass    |
|                  |              |           | RB3#2                 | 22.65                           | -4.69              | 17.96      | 0.063    | 2.000     | Pass    |
|                  |              |           | RB3#3                 | 22.58                           | -4.69              | 17.89      | 0.062    | 2.000     | Pass    |
|                  |              | RB6#0     | 21.57                 | -4.69                           | 16.88              | 0.049      | 2.000    | Pass      |         |
|                  |              | 16-QAM    | RB1#0                 | 21.66                           | -4.69              | 16.97      | 0.050    | 2.000     | Pass    |
|                  |              |           | RB1#3                 | 21.78                           | -4.69              | 17.09      | 0.051    | 2.000     | Pass    |
|                  |              |           | RB1#5                 | 21.65                           | -4.69              | 16.96      | 0.050    | 2.000     | Pass    |
|                  |              |           | RB3#0                 | 21.62                           | -4.69              | 16.93      | 0.049    | 2.000     | Pass    |
|                  |              |           | RB3#2                 | 21.65                           | -4.69              | 16.96      | 0.050    | 2.000     | Pass    |
|                  | RB3#3        |           | 21.62                 | -4.69                           | 16.93              | 0.049      | 2.000    | Pass      |         |
|                  | RB6#0        | 20.76     | -4.69                 | 16.07                           | 0.040              | 2.000      | Pass     |           |         |
|                  | MCH          | QPSK      | RB1#0                 | 22.44                           | -4.69              | 17.75      | 0.060    | 2.000     | Pass    |
|                  |              |           | RB1#3                 | 22.59                           | -4.69              | 17.90      | 0.062    | 2.000     | Pass    |
|                  |              |           | RB1#5                 | 22.4                            | -4.69              | 17.71      | 0.059    | 2.000     | Pass    |
|                  |              |           | RB3#0                 | 22.5                            | -4.69              | 17.81      | 0.060    | 2.000     | Pass    |
|                  |              |           | RB3#2                 | 22.58                           | -4.69              | 17.89      | 0.062    | 2.000     | Pass    |
|                  |              |           | RB3#3                 | 22.52                           | -4.69              | 17.83      | 0.061    | 2.000     | Pass    |
|                  |              | RB6#0     | 21.44                 | -4.69                           | 16.75              | 0.047      | 2.000    | Pass      |         |
|                  |              | 16-QAM    | RB1#0                 | 21.84                           | -4.69              | 17.15      | 0.052    | 2.000     | Pass    |
|                  |              |           | RB1#3                 | 22                              | -4.69              | 17.31      | 0.054    | 2.000     | Pass    |
|                  |              |           | RB1#5                 | 21.82                           | -4.69              | 17.13      | 0.052    | 2.000     | Pass    |
|                  |              |           | RB3#0                 | 21.7                            | -4.69              | 17.01      | 0.050    | 2.000     | Pass    |
|                  |              |           | RB3#2                 | 21.78                           | -4.69              | 17.09      | 0.051    | 2.000     | Pass    |
|                  | RB3#3        |           | 21.75                 | -4.69                           | 17.06              | 0.051      | 2.000    | Pass      |         |
|                  | RB6#0        | 20.35     | -4.69                 | 15.66                           | 0.037              | 2.000      | Pass     |           |         |
|                  | HCH          | QPSK      | RB1#0                 | 22.42                           | -4.69              | 17.73      | 0.059    | 2.000     | Pass    |
|                  |              |           | RB1#3                 | 22.59                           | -4.69              | 17.90      | 0.062    | 2.000     | Pass    |
|                  |              |           | RB1#5                 | 22.38                           | -4.69              | 17.69      | 0.059    | 2.000     | Pass    |
|                  |              |           | RB3#0                 | 22.63                           | -4.69              | 17.94      | 0.062    | 2.000     | Pass    |
|                  |              |           | RB3#2                 | 22.66                           | -4.69              | 17.97      | 0.063    | 2.000     | Pass    |
|                  |              |           | RB3#3                 | 22.68                           | -4.69              | 17.99      | 0.063    | 2.000     | Pass    |
|                  |              | RB6#0     | 21.46                 | -4.69                           | 16.77              | 0.048      | 2.000    | Pass      |         |
|                  |              | 16-QAM    | RB1#0                 | 21.54                           | -4.69              | 16.85      | 0.048    | 2.000     | Pass    |
| RB1#3            |              |           | 21.7                  | -4.69                           | 17.01              | 0.050      | 2.000    | Pass      |         |
| RB1#5            |              |           | 21.52                 | -4.69                           | 16.83              | 0.048      | 2.000    | Pass      |         |
| RB3#0            |              |           | 21.77                 | -4.69                           | 17.08              | 0.051      | 2.000    | Pass      |         |



| Test BW          | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND2</b> |              |           |                       |                                 |                    |            |          |           |         |
|                  |              |           | RB3#2                 | 21.86                           | -4.69              | 17.17      | 0.052    | 2.000     | Pass    |
|                  |              |           | RB3#3                 | 21.8                            | -4.69              | 17.11      | 0.051    | 2.000     | Pass    |
|                  |              |           | RB6#0                 | 20.76                           | -4.69              | 16.07      | 0.040    | 2.000     | Pass    |
| 3 MHz            | LCH          | QPSK      | RB1#0                 | 22.6                            | -4.69              | 17.91      | 0.062    | 2.000     | Pass    |
|                  |              |           | RB1#7                 | 22.53                           | -4.69              | 17.84      | 0.061    | 2.000     | Pass    |
|                  |              |           | RB1#14                | 22.54                           | -4.69              | 17.85      | 0.061    | 2.000     | Pass    |
|                  |              |           | RB8#0                 | 21.58                           | -4.69              | 16.89      | 0.049    | 2.000     | Pass    |
|                  |              |           | RB8#4                 | 21.64                           | -4.69              | 16.95      | 0.050    | 2.000     | Pass    |
|                  |              |           | RB8#7                 | 21.57                           | -4.69              | 16.88      | 0.049    | 2.000     | Pass    |
|                  |              | RB15#0    | 21.62                 | -4.69                           | 16.93              | 0.049      | 2.000    | Pass      |         |
|                  |              | 16-QAM    | RB1#0                 | 21.49                           | -4.69              | 16.80      | 0.048    | 2.000     | Pass    |
|                  |              |           | RB1#7                 | 21.52                           | -4.69              | 16.83      | 0.048    | 2.000     | Pass    |
|                  |              |           | RB1#14                | 21.47                           | -4.69              | 16.78      | 0.048    | 2.000     | Pass    |
|                  |              |           | RB8#0                 | 20.7                            | -4.69              | 16.01      | 0.040    | 2.000     | Pass    |
|                  |              |           | RB8#4                 | 20.77                           | -4.69              | 16.08      | 0.041    | 2.000     | Pass    |
|                  | RB8#7        |           | 20.71                 | -4.69                           | 16.02              | 0.040      | 2.000    | Pass      |         |
|                  | RB15#0       | 20.62     | -4.69                 | 15.93                           | 0.039              | 2.000      | Pass     |           |         |
|                  | MCH          | QPSK      | RB1#0                 | 22.48                           | -4.69              | 17.79      | 0.060    | 2.000     | Pass    |
|                  |              |           | RB1#7                 | 22.46                           | -4.69              | 17.77      | 0.060    | 2.000     | Pass    |
|                  |              |           | RB1#14                | 22.44                           | -4.69              | 17.75      | 0.060    | 2.000     | Pass    |
|                  |              |           | RB8#0                 | 21.48                           | -4.69              | 16.79      | 0.048    | 2.000     | Pass    |
|                  |              |           | RB8#4                 | 21.51                           | -4.69              | 16.82      | 0.048    | 2.000     | Pass    |
|                  |              |           | RB8#7                 | 21.45                           | -4.69              | 16.76      | 0.047    | 2.000     | Pass    |
|                  |              | RB15#0    | 21.46                 | -4.69                           | 16.77              | 0.048      | 2.000    | Pass      |         |
|                  |              | 16-QAM    | RB1#0                 | 21.89                           | -4.69              | 17.20      | 0.052    | 2.000     | Pass    |
|                  |              |           | RB1#7                 | 21.89                           | -4.69              | 17.20      | 0.052    | 2.000     | Pass    |
|                  |              |           | RB1#14                | 21.82                           | -4.69              | 17.13      | 0.052    | 2.000     | Pass    |
|                  |              |           | RB8#0                 | 20.61                           | -4.69              | 15.92      | 0.039    | 2.000     | Pass    |
|                  |              |           | RB8#4                 | 20.65                           | -4.69              | 15.96      | 0.039    | 2.000     | Pass    |
|                  | RB8#7        |           | 20.55                 | -4.69                           | 15.86              | 0.039      | 2.000    | Pass      |         |
| RB15#0           | 20.54        | -4.69     | 15.85                 | 0.038                           | 2.000              | Pass       |          |           |         |
| HCH              | QPSK         | RB1#0     | 22.48                 | -4.69                           | 17.79              | 0.060      | 2.000    | Pass      |         |
|                  |              | RB1#7     | 22.51                 | -4.69                           | 17.82              | 0.061      | 2.000    | Pass      |         |
|                  |              | RB1#14    | 22.46                 | -4.69                           | 17.77              | 0.060      | 2.000    | Pass      |         |
|                  |              | RB8#0     | 21.52                 | -4.69                           | 16.83              | 0.048      | 2.000    | Pass      |         |
|                  |              | RB8#4     | 21.51                 | -4.69                           | 16.82              | 0.048      | 2.000    | Pass      |         |
|                  |              | RB8#7     | 21.47                 | -4.69                           | 16.78              | 0.048      | 2.000    | Pass      |         |
|                  | RB15#0       | 21.55     | -4.69                 | 16.86                           | 0.049              | 2.000      | Pass     |           |         |
|                  | 16-QAM       | RB1#0     | 21.61                 | -4.69                           | 16.92              | 0.049      | 2.000    | Pass      |         |
|                  |              |           | RB1#7                 | 21.58                           | -4.69              | 16.89      | 0.049    | 2.000     | Pass    |

| Test BW          | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |      |
|------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|------|
| <b>LTE BAND2</b> |              |           |                       |                                 |                    |            |          |           |         |      |
| 5 MHz            |              |           | RB1#14                | 21.5                            | -4.69              | 16.81      | 0.048    | 2.000     | Pass    |      |
|                  |              |           | RB8#0                 | 20.64                           | -4.69              | 15.95      | 0.039    | 2.000     | Pass    |      |
|                  |              |           | RB8#4                 | 20.68                           | -4.69              | 15.99      | 0.040    | 2.000     | Pass    |      |
|                  |              |           | RB8#7                 | 20.61                           | -4.69              | 15.92      | 0.039    | 2.000     | Pass    |      |
|                  |              |           | RB15#0                | 20.59                           | -4.69              | 15.90      | 0.039    | 2.000     | Pass    |      |
|                  | LCH          | QPSK      | RB1#0                 | 22.54                           | -4.69              | 17.85      | 0.061    | 2.000     | Pass    |      |
|                  |              |           | RB1#13                | 22.68                           | -4.69              | 17.99      | 0.063    | 2.000     | Pass    |      |
|                  |              |           | RB1#24                | 22.5                            | -4.69              | 17.81      | 0.060    | 2.000     | Pass    |      |
|                  |              |           | RB12#0                | 21.62                           | -4.69              | 16.93      | 0.049    | 2.000     | Pass    |      |
|                  |              |           | RB12#6                | 21.68                           | -4.69              | 16.99      | 0.050    | 2.000     | Pass    |      |
|                  |              |           | RB12#13               | 21.55                           | -4.69              | 16.86      | 0.049    | 2.000     | Pass    |      |
|                  |              |           | RB25#0                | 21.61                           | -4.69              | 16.92      | 0.049    | 2.000     | Pass    |      |
|                  |              | 16-QAM    | RB1#0                 | 21.67                           | -4.69              | 16.98      | 0.050    | 2.000     | Pass    |      |
|                  |              |           | RB1#13                | 21.81                           | -4.69              | 17.12      | 0.052    | 2.000     | Pass    |      |
|                  |              |           | RB1#24                | 21.68                           | -4.69              | 16.99      | 0.050    | 2.000     | Pass    |      |
|                  |              |           | RB12#0                | 20.69                           | -4.69              | 16.00      | 0.040    | 2.000     | Pass    |      |
|                  |              |           | RB12#6                | 20.75                           | -4.69              | 16.06      | 0.040    | 2.000     | Pass    |      |
|                  |              |           | RB12#13               | 20.65                           | -4.69              | 15.96      | 0.039    | 2.000     | Pass    |      |
|                  |              | MCH       | QPSK                  | RB1#0                           | 22.43              | -4.69      | 17.74    | 0.059     | 2.000   | Pass |
|                  |              |           |                       | RB1#13                          | 22.5               | -4.69      | 17.81    | 0.060     | 2.000   | Pass |
|                  |              |           |                       | RB1#24                          | 22.36              | -4.69      | 17.67    | 0.058     | 2.000   | Pass |
|                  |              |           |                       | RB12#0                          | 21.45              | -4.69      | 16.76    | 0.047     | 2.000   | Pass |
|                  |              |           |                       | RB12#6                          | 21.51              | -4.69      | 16.82    | 0.048     | 2.000   | Pass |
|                  | RB12#13      |           |                       | 21.43                           | -4.69              | 16.74      | 0.047    | 2.000     | Pass    |      |
|                  | RB25#0       |           |                       | 21.45                           | -4.69              | 16.76      | 0.047    | 2.000     | Pass    |      |
|                  | 16-QAM       |           | RB1#0                 | 21.95                           | -4.69              | 17.26      | 0.053    | 2.000     | Pass    |      |
|                  |              |           | RB1#13                | 22.04                           | -4.69              | 17.35      | 0.054    | 2.000     | Pass    |      |
|                  |              |           | RB1#24                | 21.87                           | -4.69              | 17.18      | 0.052    | 2.000     | Pass    |      |
| RB12#0           |              |           | 20.62                 | -4.69                           | 15.93              | 0.039      | 2.000    | Pass      |         |      |
| RB12#6           |              |           | 20.66                 | -4.69                           | 15.97              | 0.040      | 2.000    | Pass      |         |      |
| RB12#13          |              |           | 20.59                 | -4.69                           | 15.90              | 0.039      | 2.000    | Pass      |         |      |
| HCH              | QPSK         | RB25#0    | 20.57                 | -4.69                           | 15.88              | 0.039      | 2.000    | Pass      |         |      |
|                  |              | RB1#0     | 22.43                 | -4.69                           | 17.74              | 0.059      | 2.000    | Pass      |         |      |
|                  |              | RB1#13    | 22.54                 | -4.69                           | 17.85              | 0.061      | 2.000    | Pass      |         |      |
|                  |              | RB1#24    | 22.38                 | -4.69                           | 17.69              | 0.059      | 2.000    | Pass      |         |      |
|                  |              | RB12#0    | 21.63                 | -4.69                           | 16.94              | 0.049      | 2.000    | Pass      |         |      |
|                  |              | RB12#6    | 21.62                 | -4.69                           | 16.93              | 0.049      | 2.000    | Pass      |         |      |
|                  |              | RB12#13   | 21.51                 | -4.69                           | 16.82              | 0.048      | 2.000    | Pass      |         |      |
| RB25#0           | 21.6         | -4.69     | 16.91                 | 0.049                           | 2.000              | Pass       |          |           |         |      |

| Test BW          | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND2</b> |              |           |                       |                                 |                    |            |          |           |         |
| 10 MHz           | LCH          | 16-QAM    | RB1#0                 | 21.62                           | -4.69              | 16.93      | 0.049    | 2.000     | Pass    |
|                  |              |           | RB1#13                | 21.7                            | -4.69              | 17.01      | 0.050    | 2.000     | Pass    |
|                  |              |           | RB1#24                | 21.52                           | -4.69              | 16.83      | 0.048    | 2.000     | Pass    |
|                  |              |           | RB12#0                | 20.74                           | -4.69              | 16.05      | 0.040    | 2.000     | Pass    |
|                  |              |           | RB12#6                | 20.75                           | -4.69              | 16.06      | 0.040    | 2.000     | Pass    |
|                  |              |           | RB12#13               | 20.64                           | -4.69              | 15.95      | 0.039    | 2.000     | Pass    |
|                  |              |           | RB25#0                | 20.64                           | -4.69              | 15.95      | 0.039    | 2.000     | Pass    |
|                  | MCH          | QPSK      | RB1#0                 | 22.62                           | -4.69              | 17.93      | 0.062    | 2.000     | Pass    |
|                  |              |           | RB1#25                | 22.7                            | -4.69              | 18.01      | 0.063    | 2.000     | Pass    |
|                  |              |           | RB1#49                | 22.44                           | -4.69              | 17.75      | 0.060    | 2.000     | Pass    |
|                  |              |           | RB25#0                | 21.64                           | -4.69              | 16.95      | 0.050    | 2.000     | Pass    |
|                  |              |           | RB25#13               | 21.62                           | -4.69              | 16.93      | 0.049    | 2.000     | Pass    |
|                  |              |           | RB25#25               | 21.6                            | -4.69              | 16.91      | 0.049    | 2.000     | Pass    |
|                  |              |           | RB50#0                | 21.65                           | -4.69              | 16.96      | 0.050    | 2.000     | Pass    |
|                  |              | 16-QAM    | RB1#0                 | 21.52                           | -4.69              | 16.83      | 0.048    | 2.000     | Pass    |
|                  |              |           | RB1#25                | 21.66                           | -4.69              | 16.97      | 0.050    | 2.000     | Pass    |
|                  |              |           | RB1#49                | 21.47                           | -4.69              | 16.78      | 0.048    | 2.000     | Pass    |
|                  |              |           | RB25#0                | 20.67                           | -4.69              | 15.98      | 0.040    | 2.000     | Pass    |
|                  |              |           | RB25#13               | 20.65                           | -4.69              | 15.96      | 0.039    | 2.000     | Pass    |
|                  |              |           | RB25#25               | 20.62                           | -4.69              | 15.93      | 0.039    | 2.000     | Pass    |
|                  |              |           | RB50#0                | 20.66                           | -4.69              | 15.97      | 0.040    | 2.000     | Pass    |
|                  | HCH          | QPSK      | RB1#0                 | 22.5                            | -4.69              | 17.81      | 0.060    | 2.000     | Pass    |
|                  |              |           | RB1#25                | 22.62                           | -4.69              | 17.93      | 0.062    | 2.000     | Pass    |
|                  |              |           | RB1#49                | 22.37                           | -4.69              | 17.68      | 0.059    | 2.000     | Pass    |
|                  |              |           | RB25#0                | 21.52                           | -4.69              | 16.83      | 0.048    | 2.000     | Pass    |
|                  |              |           | RB25#13               | 21.52                           | -4.69              | 16.83      | 0.048    | 2.000     | Pass    |
|                  |              |           | RB25#25               | 21.46                           | -4.69              | 16.77      | 0.048    | 2.000     | Pass    |
|                  |              |           | RB50#0                | 21.5                            | -4.69              | 16.81      | 0.048    | 2.000     | Pass    |
| 16-QAM           |              | RB1#0     | 21.88                 | -4.69                           | 17.19              | 0.052      | 2.000    | Pass      |         |
|                  |              | RB1#25    | 22.01                 | -4.69                           | 17.32              | 0.054      | 2.000    | Pass      |         |
|                  |              | RB1#49    | 21.8                  | -4.69                           | 17.11              | 0.051      | 2.000    | Pass      |         |
|                  |              | RB25#0    | 20.61                 | -4.69                           | 15.92              | 0.039      | 2.000    | Pass      |         |
|                  |              | RB25#13   | 20.62                 | -4.69                           | 15.93              | 0.039      | 2.000    | Pass      |         |
|                  |              | RB25#25   | 20.57                 | -4.69                           | 15.88              | 0.039      | 2.000    | Pass      |         |
|                  |              | RB50#0    | 20.55                 | -4.69                           | 15.86              | 0.039      | 2.000    | Pass      |         |
| QPSK             | RB1#0        | 22.54     | -4.69                 | 17.85                           | 0.061              | 2.000      | Pass     |           |         |
|                  | RB1#25       | 22.63     | -4.69                 | 17.94                           | 0.062              | 2.000      | Pass     |           |         |
|                  | RB1#49       | 22.4      | -4.69                 | 17.71                           | 0.059              | 2.000      | Pass     |           |         |
|                  | RB25#0       | 21.65     | -4.69                 | 16.96                           | 0.050              | 2.000      | Pass     |           |         |
|                  | RB25#13      | 21.56     | -4.69                 | 16.87                           | 0.049              | 2.000      | Pass     |           |         |

| Test BW          | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND2</b> |              |           |                       |                                 |                    |            |          |           |         |
|                  |              | 16-QAM    | RB25#25               | 21.5                            | -4.69              | 16.81      | 0.048    | 2.000     | Pass    |
|                  |              |           | RB50#0                | 21.65                           | -4.69              | 16.96      | 0.050    | 2.000     | Pass    |
|                  |              |           | RB1#0                 | 21.6                            | -4.69              | 16.91      | 0.049    | 2.000     | Pass    |
|                  |              |           | RB1#25                | 21.7                            | -4.69              | 17.01      | 0.050    | 2.000     | Pass    |
|                  |              |           | RB1#49                | 21.49                           | -4.69              | 16.80      | 0.048    | 2.000     | Pass    |
|                  |              |           | RB25#0                | 20.83                           | -4.69              | 16.14      | 0.041    | 2.000     | Pass    |
|                  |              |           | RB25#13               | 20.73                           | -4.69              | 16.04      | 0.040    | 2.000     | Pass    |
|                  |              |           | RB25#25               | 20.7                            | -4.69              | 16.01      | 0.040    | 2.000     | Pass    |
| 15 MHz           | LCH          | QPSK      | RB1#0                 | 22.56                           | -4.69              | 17.87      | 0.061    | 2.000     | Pass    |
|                  |              |           | RB1#38                | 22.53                           | -4.69              | 17.84      | 0.061    | 2.000     | Pass    |
|                  |              |           | RB1#74                | 22.4                            | -4.69              | 17.71      | 0.059    | 2.000     | Pass    |
|                  |              |           | RB36#0                | 21.65                           | -4.69              | 16.96      | 0.050    | 2.000     | Pass    |
|                  |              |           | RB36#19               | 21.59                           | -4.69              | 16.90      | 0.049    | 2.000     | Pass    |
|                  |              |           | RB36#39               | 21.55                           | -4.69              | 16.86      | 0.049    | 2.000     | Pass    |
|                  |              |           | RB75#0                | 21.6                            | -4.69              | 16.91      | 0.049    | 2.000     | Pass    |
|                  |              | 16-QAM    | RB1#0                 | 21.53                           | -4.69              | 16.84      | 0.048    | 2.000     | Pass    |
|                  |              |           | RB1#38                | 21.51                           | -4.69              | 16.82      | 0.048    | 2.000     | Pass    |
|                  |              |           | RB1#74                | 21.36                           | -4.69              | 16.67      | 0.046    | 2.000     | Pass    |
|                  |              |           | RB36#0                | 20.6                            | -4.69              | 15.91      | 0.039    | 2.000     | Pass    |
|                  |              |           | RB36#19               | 20.62                           | -4.69              | 15.93      | 0.039    | 2.000     | Pass    |
|                  |              |           | RB36#39               | 20.6                            | -4.69              | 15.91      | 0.039    | 2.000     | Pass    |
|                  |              |           | RB75#0                | 20.62                           | -4.69              | 15.93      | 0.039    | 2.000     | Pass    |
|                  | MCH          | QPSK      | RB1#0                 | 22.52                           | -4.69              | 17.83      | 0.061    | 2.000     | Pass    |
|                  |              |           | RB1#38                | 22.42                           | -4.69              | 17.73      | 0.059    | 2.000     | Pass    |
|                  |              |           | RB1#74                | 22.3                            | -4.69              | 17.61      | 0.058    | 2.000     | Pass    |
|                  |              |           | RB36#0                | 21.52                           | -4.69              | 16.83      | 0.048    | 2.000     | Pass    |
|                  |              |           | RB36#19               | 21.5                            | -4.69              | 16.81      | 0.048    | 2.000     | Pass    |
|                  |              |           | RB36#39               | 21.45                           | -4.69              | 16.76      | 0.047    | 2.000     | Pass    |
|                  |              |           | RB75#0                | 21.46                           | -4.69              | 16.77      | 0.048    | 2.000     | Pass    |
| 16-QAM           |              | RB1#0     | 21.9                  | -4.69                           | 17.21              | 0.053      | 2.000    | Pass      |         |
|                  |              | RB1#38    | 21.84                 | -4.69                           | 17.15              | 0.052      | 2.000    | Pass      |         |
|                  |              | RB1#74    | 21.74                 | -4.69                           | 17.05              | 0.051      | 2.000    | Pass      |         |
|                  |              | RB36#0    | 20.63                 | -4.69                           | 15.94              | 0.039      | 2.000    | Pass      |         |
|                  |              | RB36#19   | 20.53                 | -4.69                           | 15.84              | 0.038      | 2.000    | Pass      |         |
|                  |              | RB36#39   | 20.47                 | -4.69                           | 15.78              | 0.038      | 2.000    | Pass      |         |
|                  |              | RB75#0    | 20.47                 | -4.69                           | 15.78              | 0.038      | 2.000    | Pass      |         |
| HCH              | QPSK         | RB1#0     | 22.53                 | -4.69                           | 17.84              | 0.061      | 2.000    | Pass      |         |
|                  |              | RB1#38    | 22.55                 | -4.69                           | 17.86              | 0.061      | 2.000    | Pass      |         |
|                  |              | RB1#74    | 22.33                 | -4.69                           | 17.64              | 0.058      | 2.000    | Pass      |         |

| Test BW          | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |       |       |      |
|------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|-------|-------|------|
| <b>LTE BAND2</b> |              |           |                       |                                 |                    |            |          |           |         |       |       |      |
|                  |              |           | RB36#0                | 21.63                           | -4.69              | 16.94      | 0.049    | 2.000     | Pass    |       |       |      |
|                  |              |           | RB36#19               | 21.59                           | -4.69              | 16.90      | 0.049    | 2.000     | Pass    |       |       |      |
|                  |              |           | RB36#39               | 21.48                           | -4.69              | 16.79      | 0.048    | 2.000     | Pass    |       |       |      |
|                  |              |           | RB75#0                | 21.56                           | -4.69              | 16.87      | 0.049    | 2.000     | Pass    |       |       |      |
|                  |              | 16-QAM    | RB1#0                 | 21.99                           | -4.69              | 17.30      | 0.054    | 2.000     | Pass    |       |       |      |
|                  |              |           | RB1#38                | 21.99                           | -4.69              | 17.30      | 0.054    | 2.000     | Pass    |       |       |      |
|                  |              |           | RB1#74                | 21.85                           | -4.69              | 17.16      | 0.052    | 2.000     | Pass    |       |       |      |
|                  |              |           | RB36#0                | 20.61                           | -4.69              | 15.92      | 0.039    | 2.000     | Pass    |       |       |      |
|                  |              |           | RB36#19               | 20.55                           | -4.69              | 15.86      | 0.039    | 2.000     | Pass    |       |       |      |
|                  |              |           | RB36#39               | 20.48                           | -4.69              | 15.79      | 0.038    | 2.000     | Pass    |       |       |      |
|                  |              |           | RB75#0                | 20.61                           | -4.69              | 15.92      | 0.039    | 2.000     | Pass    |       |       |      |
|                  |              |           | 20 MHz                | LCH                             | QPSK               | RB1#0      | 22.51    | -4.69     | 17.82   | 0.061 | 2.000 | Pass |
|                  |              |           |                       |                                 |                    | RB1#50     | 22.63    | -4.69     | 17.94   | 0.062 | 2.000 | Pass |
|                  |              |           |                       |                                 |                    | RB1#99     | 22.39    | -4.69     | 17.70   | 0.059 | 2.000 | Pass |
|                  |              | RB50#0    |                       |                                 |                    | 21.56      | -4.69    | 16.87     | 0.049   | 2.000 | Pass  |      |
|                  |              | RB50#25   |                       |                                 |                    | 21.6       | -4.69    | 16.91     | 0.049   | 2.000 | Pass  |      |
|                  |              | RB50#50   |                       |                                 |                    | 21.52      | -4.69    | 16.83     | 0.048   | 2.000 | Pass  |      |
|                  |              | 16-QAM    |                       |                                 | RB100#0            | 21.56      | -4.69    | 16.87     | 0.049   | 2.000 | Pass  |      |
|                  |              |           |                       |                                 | RB1#0              | 22.04      | -4.69    | 17.35     | 0.054   | 2.000 | Pass  |      |
| RB1#50           | 22.21        |           |                       |                                 | -4.69              | 17.52      | 0.056    | 2.000     | Pass    |       |       |      |
| RB1#99           | 21.89        |           |                       |                                 | -4.69              | 17.20      | 0.052    | 2.000     | Pass    |       |       |      |
| RB50#0           | 20.64        |           |                       |                                 | -4.69              | 15.95      | 0.039    | 2.000     | Pass    |       |       |      |
| RB50#25          | 20.64        |           |                       |                                 | -4.69              | 15.95      | 0.039    | 2.000     | Pass    |       |       |      |
| RB50#50          | 20.6         |           |                       |                                 | -4.69              | 15.91      | 0.039    | 2.000     | Pass    |       |       |      |
| MCH              | QPSK         | RB100#0   | 20.63                 | -4.69                           | 15.94              | 0.039      | 2.000    | Pass      |         |       |       |      |
|                  |              | RB1#0     | 22.51                 | -4.69                           | 17.82              | 0.061      | 2.000    | Pass      |         |       |       |      |
|                  |              | RB1#50    | 22.57                 | -4.69                           | 17.88              | 0.061      | 2.000    | Pass      |         |       |       |      |
|                  |              | RB1#99    | 22.3                  | -4.69                           | 17.61              | 0.058      | 2.000    | Pass      |         |       |       |      |
|                  |              | RB50#0    | 21.54                 | -4.69                           | 16.85              | 0.048      | 2.000    | Pass      |         |       |       |      |
|                  |              | RB50#25   | 21.48                 | -4.69                           | 16.79              | 0.048      | 2.000    | Pass      |         |       |       |      |
|                  | 16-QAM       | RB50#50   | 21.41                 | -4.69                           | 16.72              | 0.047      | 2.000    | Pass      |         |       |       |      |
|                  |              | RB100#0   | 21.51                 | -4.69                           | 16.82              | 0.048      | 2.000    | Pass      |         |       |       |      |
|                  |              | RB1#0     | 21.98                 | -4.69                           | 17.29              | 0.054      | 2.000    | Pass      |         |       |       |      |
|                  |              | RB1#50    | 22.11                 | -4.69                           | 17.42              | 0.055      | 2.000    | Pass      |         |       |       |      |
|                  |              | RB1#99    | 21.8                  | -4.69                           | 17.11              | 0.051      | 2.000    | Pass      |         |       |       |      |
|                  |              | RB50#0    | 20.64                 | -4.69                           | 15.95              | 0.039      | 2.000    | Pass      |         |       |       |      |
| HCH              | QPSK         | RB50#25   | 20.54                 | -4.69                           | 15.85              | 0.038      | 2.000    | Pass      |         |       |       |      |
|                  |              | RB50#50   | 20.48                 | -4.69                           | 15.79              | 0.038      | 2.000    | Pass      |         |       |       |      |
|                  |              |           | RB100#0               | 20.53                           | -4.69              | 15.84      | 0.038    | 2.000     | Pass    |       |       |      |
|                  |              |           | RB1#0                 | 22.38                           | -4.69              | 17.69      | 0.059    | 2.000     | Pass    |       |       |      |

| Test BW          | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND2</b> |              |           |                       |                                 |                    |            |          |           |         |
|                  |              |           | RB1#50                | 22.63                           | -4.69              | 17.94      | 0.062    | 2.000     | Pass    |
|                  |              |           | RB1#99                | 22.23                           | -4.69              | 17.54      | 0.057    | 2.000     | Pass    |
|                  |              |           | RB50#0                | 21.62                           | -4.69              | 16.93      | 0.049    | 2.000     | Pass    |
|                  |              |           | RB50#25               | 21.6                            | -4.69              | 16.91      | 0.049    | 2.000     | Pass    |
|                  |              |           | RB50#50               | 21.42                           | -4.69              | 16.73      | 0.047    | 2.000     | Pass    |
|                  |              |           | RB100#0               | 21.53                           | -4.69              | 16.84      | 0.048    | 2.000     | Pass    |
|                  |              | 16-QAM    | RB1#0                 | 21.84                           | -4.69              | 17.15      | 0.052    | 2.000     | Pass    |
|                  |              |           | RB1#50                | 22.1                            | -4.69              | 17.41      | 0.055    | 2.000     | Pass    |
|                  |              |           | RB1#99                | 21.78                           | -4.69              | 17.09      | 0.051    | 2.000     | Pass    |
|                  |              |           | RB50#0                | 20.61                           | -4.69              | 15.92      | 0.039    | 2.000     | Pass    |
|                  |              |           | RB50#25               | 20.6                            | -4.69              | 15.91      | 0.039    | 2.000     | Pass    |
|                  |              |           | RB50#50               | 20.41                           | -4.69              | 15.72      | 0.037    | 2.000     | Pass    |
|                  |              |           | RB100#0               | 20.6                            | -4.69              | 15.91      | 0.039    | 2.000     | Pass    |

| Test BW          | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND4</b> |              |           |                       |                                 |                    |            |          |           |         |
| 1.4 MHz          | LCH          | QPSK      | RB1#0                 | 22.43                           | -3.35              | 19.08      | 0.081    | 1.000     | Pass    |
|                  |              |           | RB1#3                 | 22.62                           | -3.35              | 19.27      | 0.085    | 1.000     | Pass    |
|                  |              |           | RB1#5                 | 22.44                           | -3.35              | 19.09      | 0.081    | 1.000     | Pass    |
|                  |              |           | RB3#0                 | 22.61                           | -3.35              | 19.26      | 0.084    | 1.000     | Pass    |
|                  |              |           | RB3#2                 | 22.57                           | -3.35              | 19.22      | 0.084    | 1.000     | Pass    |
|                  |              |           | RB3#3                 | 22.54                           | -3.35              | 19.19      | 0.083    | 1.000     | Pass    |
|                  |              | 16-QAM    | RB6#0                 | 21.52                           | -3.35              | 18.17      | 0.066    | 1.000     | Pass    |
|                  |              |           | RB1#0                 | 21.61                           | -3.35              | 18.26      | 0.067    | 1.000     | Pass    |
|                  |              |           | RB1#3                 | 21.76                           | -3.35              | 18.41      | 0.069    | 1.000     | Pass    |
|                  |              |           | RB1#5                 | 21.64                           | -3.35              | 18.29      | 0.067    | 1.000     | Pass    |
|                  |              |           | RB3#0                 | 21.68                           | -3.35              | 18.33      | 0.068    | 1.000     | Pass    |
|                  |              |           | RB3#2                 | 21.64                           | -3.35              | 18.29      | 0.067    | 1.000     | Pass    |
|                  | MCH          | QPSK      | RB3#3                 | 21.61                           | -3.35              | 18.26      | 0.067    | 1.000     | Pass    |
|                  |              |           | RB6#0                 | 20.7                            | -3.35              | 17.35      | 0.054    | 1.000     | Pass    |
|                  |              |           | RB1#0                 | 22.5                            | -3.35              | 19.15      | 0.082    | 1.000     | Pass    |
|                  |              |           | RB1#3                 | 22.67                           | -3.35              | 19.32      | 0.086    | 1.000     | Pass    |
|                  |              |           | RB1#5                 | 22.49                           | -3.35              | 19.14      | 0.082    | 1.000     | Pass    |
|                  |              |           | RB3#0                 | 22.6                            | -3.35              | 19.25      | 0.084    | 1.000     | Pass    |
|                  |              | 16-QAM    | RB3#2                 | 22.65                           | -3.35              | 19.30      | 0.085    | 1.000     | Pass    |
|                  |              |           | RB3#3                 | 22.59                           | -3.35              | 19.24      | 0.084    | 1.000     | Pass    |
|                  |              |           | RB6#0                 | 21.58                           | -3.35              | 18.23      | 0.067    | 1.000     | Pass    |
|                  |              |           | RB1#0                 | 21.91                           | -3.35              | 18.56      | 0.072    | 1.000     | Pass    |
|                  |              |           | RB1#3                 | 22.06                           | -3.35              | 18.71      | 0.074    | 1.000     | Pass    |
|                  |              |           | RB1#5                 | 21.9                            | -3.35              | 18.55      | 0.072    | 1.000     | Pass    |
|                  | HCH          | QPSK      | RB3#0                 | 21.79                           | -3.35              | 18.44      | 0.070    | 1.000     | Pass    |
|                  |              |           | RB3#2                 | 21.79                           | -3.35              | 18.44      | 0.070    | 1.000     | Pass    |
|                  |              |           | RB3#3                 | 21.81                           | -3.35              | 18.46      | 0.070    | 1.000     | Pass    |
|                  |              |           | RB6#0                 | 20.48                           | -3.35              | 17.13      | 0.052    | 1.000     | Pass    |
|                  |              |           | RB1#0                 | 22.4                            | -3.35              | 19.05      | 0.080    | 1.000     | Pass    |
|                  |              |           | RB1#3                 | 22.57                           | -3.35              | 19.22      | 0.084    | 1.000     | Pass    |
|                  |              | 16-QAM    | RB1#5                 | 22.38                           | -3.35              | 19.03      | 0.080    | 1.000     | Pass    |
|                  |              |           | RB3#0                 | 22.54                           | -3.35              | 19.19      | 0.083    | 1.000     | Pass    |
|                  |              |           | RB3#2                 | 22.57                           | -3.35              | 19.22      | 0.084    | 1.000     | Pass    |
|                  |              |           | RB3#3                 | 22.56                           | -3.35              | 19.21      | 0.083    | 1.000     | Pass    |
|                  |              |           | RB6#0                 | 21.42                           | -3.35              | 18.07      | 0.064    | 1.000     | Pass    |
|                  |              |           | RB1#0                 | 21.47                           | -3.35              | 18.12      | 0.065    | 1.000     | Pass    |
| 16-QAM           | RB1#3        | 21.69     | -3.35                 | 18.34                           | 0.068              | 1.000      | Pass     |           |         |
|                  | RB1#5        | 21.48     | -3.35                 | 18.13                           | 0.065              | 1.000      | Pass     |           |         |
|                  | RB3#0        | 21.68     | -3.35                 | 18.33                           | 0.068              | 1.000      | Pass     |           |         |
|                  | RB3#2        | 21.76     | -3.35                 | 18.41                           | 0.069              | 1.000      | Pass     |           |         |

| Test BW          | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |      |
|------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|------|
| <b>LTE BAND4</b> |              |           |                       |                                 |                    |            |          |           |         |      |
| 3 MHz            |              |           | RB3#3                 | 21.71                           | -3.35              | 18.36      | 0.069    | 1.000     | Pass    |      |
|                  |              |           | RB6#0                 | 20.62                           | -3.35              | 17.27      | 0.053    | 1.000     | Pass    |      |
|                  | LCH          | QPSK      | RB1#0                 | 22.52                           | -3.35              | 19.17      | 0.083    | 1.000     | Pass    |      |
|                  |              |           | RB1#7                 | 22.5                            | -3.35              | 19.15      | 0.082    | 1.000     | Pass    |      |
|                  |              |           | RB1#14                | 22.48                           | -3.35              | 19.13      | 0.082    | 1.000     | Pass    |      |
|                  |              |           | RB8#0                 | 21.56                           | -3.35              | 18.21      | 0.066    | 1.000     | Pass    |      |
|                  |              |           | RB8#4                 | 21.58                           | -3.35              | 18.23      | 0.067    | 1.000     | Pass    |      |
|                  |              |           | RB8#7                 | 21.52                           | -3.35              | 18.17      | 0.066    | 1.000     | Pass    |      |
|                  |              |           | RB15#0                | 21.56                           | -3.35              | 18.21      | 0.066    | 1.000     | Pass    |      |
|                  |              | 16-QAM    | RB1#0                 | 21.46                           | -3.35              | 18.11      | 0.065    | 1.000     | Pass    |      |
|                  |              |           | RB1#7                 | 21.46                           | -3.35              | 18.11      | 0.065    | 1.000     | Pass    |      |
|                  |              |           | RB1#14                | 21.46                           | -3.35              | 18.11      | 0.065    | 1.000     | Pass    |      |
|                  |              |           | RB8#0                 | 20.69                           | -3.35              | 17.34      | 0.054    | 1.000     | Pass    |      |
|                  |              |           | RB8#4                 | 20.69                           | -3.35              | 17.34      | 0.054    | 1.000     | Pass    |      |
|                  |              |           | RB8#7                 | 20.62                           | -3.35              | 17.27      | 0.053    | 1.000     | Pass    |      |
|                  |              |           | RB15#0                | 20.6                            | -3.35              | 17.25      | 0.053    | 1.000     | Pass    |      |
|                  |              | MCH       | QPSK                  | RB1#0                           | 22.5               | -3.35      | 19.15    | 0.082     | 1.000   | Pass |
|                  |              |           |                       | RB1#7                           | 22.51              | -3.35      | 19.16    | 0.082     | 1.000   | Pass |
|                  |              |           |                       | RB1#14                          | 22.49              | -3.35      | 19.14    | 0.082     | 1.000   | Pass |
|                  |              |           |                       | RB8#0                           | 21.54              | -3.35      | 18.19    | 0.066     | 1.000   | Pass |
|                  | RB8#4        |           |                       | 21.59                           | -3.35              | 18.24      | 0.067    | 1.000     | Pass    |      |
|                  | RB8#7        |           |                       | 21.53                           | -3.35              | 18.18      | 0.066    | 1.000     | Pass    |      |
|                  | 16-QAM       |           | RB15#0                | 21.56                           | -3.35              | 18.21      | 0.066    | 1.000     | Pass    |      |
|                  |              |           | RB1#0                 | 21.91                           | -3.35              | 18.56      | 0.072    | 1.000     | Pass    |      |
|                  |              |           | RB1#7                 | 21.93                           | -3.35              | 18.58      | 0.072    | 1.000     | Pass    |      |
|                  |              |           | RB1#14                | 21.89                           | -3.35              | 18.54      | 0.071    | 1.000     | Pass    |      |
|                  |              |           | RB8#0                 | 20.66                           | -3.35              | 17.31      | 0.054    | 1.000     | Pass    |      |
|                  |              |           | RB8#4                 | 20.69                           | -3.35              | 17.34      | 0.054    | 1.000     | Pass    |      |
|                  | HCH          | QPSK      | RB8#7                 | 20.6                            | -3.35              | 17.25      | 0.053    | 1.000     | Pass    |      |
|                  |              |           | RB15#0                | 20.59                           | -3.35              | 17.24      | 0.053    | 1.000     | Pass    |      |
|                  |              |           | RB1#0                 | 22.43                           | -3.35              | 19.08      | 0.081    | 1.000     | Pass    |      |
|                  |              |           | RB1#7                 | 22.41                           | -3.35              | 19.06      | 0.081    | 1.000     | Pass    |      |
|                  |              |           | RB1#14                | 22.41                           | -3.35              | 19.06      | 0.081    | 1.000     | Pass    |      |
| RB8#0            |              |           | 21.43                 | -3.35                           | 18.08              | 0.064      | 1.000    | Pass      |         |      |
| 16-QAM           |              | RB8#4     | 21.48                 | -3.35                           | 18.13              | 0.065      | 1.000    | Pass      |         |      |
|                  |              | RB8#7     | 21.44                 | -3.35                           | 18.09              | 0.064      | 1.000    | Pass      |         |      |
|                  |              | RB15#0    | 21.45                 | -3.35                           | 18.10              | 0.065      | 1.000    | Pass      |         |      |
|                  |              |           | RB1#0                 | 21.51                           | -3.35              | 18.16      | 0.065    | 1.000     | Pass    |      |
|                  |              |           | RB1#7                 | 21.49                           | -3.35              | 18.14      | 0.065    | 1.000     | Pass    |      |
|                  |              |           | RB1#14                | 21.43                           | -3.35              | 18.08      | 0.064    | 1.000     | Pass    |      |



| Test BW          | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |      |
|------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|------|
| <b>LTE BAND4</b> |              |           |                       |                                 |                    |            |          |           |         |      |
| 5 MHz            |              |           | RB8#0                 | 20.56                           | -3.35              | 17.21      | 0.053    | 1.000     | Pass    |      |
|                  |              |           | RB8#4                 | 20.55                           | -3.35              | 17.20      | 0.052    | 1.000     | Pass    |      |
|                  |              |           | RB8#7                 | 20.5                            | -3.35              | 17.15      | 0.052    | 1.000     | Pass    |      |
|                  |              |           | RB15#0                | 20.45                           | -3.35              | 17.10      | 0.051    | 1.000     | Pass    |      |
|                  | LCH          | QPSK      | RB1#0                 | 22.42                           | -3.35              | 19.07      | 0.081    | 1.000     | Pass    |      |
|                  |              |           | RB1#13                | 22.58                           | -3.35              | 19.23      | 0.084    | 1.000     | Pass    |      |
|                  |              |           | RB1#24                | 22.42                           | -3.35              | 19.07      | 0.081    | 1.000     | Pass    |      |
|                  |              |           | RB12#0                | 21.47                           | -3.35              | 18.12      | 0.065    | 1.000     | Pass    |      |
|                  |              |           | RB12#6                | 21.56                           | -3.35              | 18.21      | 0.066    | 1.000     | Pass    |      |
|                  |              |           | RB12#13               | 21.57                           | -3.35              | 18.22      | 0.066    | 1.000     | Pass    |      |
|                  |              |           | RB25#0                | 21.51                           | -3.35              | 18.16      | 0.065    | 1.000     | Pass    |      |
|                  |              | 16-QAM    | RB1#0                 | 21.66                           | -3.35              | 18.31      | 0.068    | 1.000     | Pass    |      |
|                  |              |           | RB1#13                | 21.74                           | -3.35              | 18.39      | 0.069    | 1.000     | Pass    |      |
|                  |              |           | RB1#24                | 21.62                           | -3.35              | 18.27      | 0.067    | 1.000     | Pass    |      |
|                  |              |           | RB12#0                | 20.59                           | -3.35              | 17.24      | 0.053    | 1.000     | Pass    |      |
|                  |              |           | RB12#6                | 20.66                           | -3.35              | 17.31      | 0.054    | 1.000     | Pass    |      |
|                  |              |           | RB12#13               | 20.59                           | -3.35              | 17.24      | 0.053    | 1.000     | Pass    |      |
|                  |              |           | RB25#0                | 20.59                           | -3.35              | 17.24      | 0.053    | 1.000     | Pass    |      |
|                  |              | MCH       | QPSK                  | RB1#0                           | 22.46              | -3.35      | 19.11    | 0.081     | 1.000   | Pass |
|                  |              |           |                       | RB1#13                          | 22.57              | -3.35      | 19.22    | 0.084     | 1.000   | Pass |
|                  | RB1#24       |           |                       | 22.47                           | -3.35              | 19.12      | 0.082    | 1.000     | Pass    |      |
|                  | RB12#0       |           |                       | 21.55                           | -3.35              | 18.20      | 0.066    | 1.000     | Pass    |      |
|                  | RB12#6       |           |                       | 21.56                           | -3.35              | 18.21      | 0.066    | 1.000     | Pass    |      |
|                  | RB12#13      |           |                       | 21.52                           | -3.35              | 18.17      | 0.066    | 1.000     | Pass    |      |
|                  | RB25#0       |           |                       | 21.51                           | -3.35              | 18.16      | 0.065    | 1.000     | Pass    |      |
|                  | 16-QAM       |           | RB1#0                 | 21.99                           | -3.35              | 18.64      | 0.073    | 1.000     | Pass    |      |
|                  |              |           | RB1#13                | 22.1                            | -3.35              | 18.75      | 0.075    | 1.000     | Pass    |      |
|                  |              |           | RB1#24                | 21.99                           | -3.35              | 18.64      | 0.073    | 1.000     | Pass    |      |
|                  |              |           | RB12#0                | 20.66                           | -3.35              | 17.31      | 0.054    | 1.000     | Pass    |      |
|                  |              |           | RB12#6                | 20.72                           | -3.35              | 17.37      | 0.055    | 1.000     | Pass    |      |
|                  |              |           | RB12#13               | 20.7                            | -3.35              | 17.35      | 0.054    | 1.000     | Pass    |      |
|                  |              |           | RB25#0                | 20.61                           | -3.35              | 17.26      | 0.053    | 1.000     | Pass    |      |
| HCH              | QPSK         | RB1#0     | 22.35                 | -3.35                           | 19.00              | 0.079      | 1.000    | Pass      |         |      |
|                  |              | RB1#13    | 22.5                  | -3.35                           | 19.15              | 0.082      | 1.000    | Pass      |         |      |
|                  |              | RB1#24    | 22.26                 | -3.35                           | 18.91              | 0.078      | 1.000    | Pass      |         |      |
|                  |              | RB12#0    | 21.44                 | -3.35                           | 18.09              | 0.064      | 1.000    | Pass      |         |      |
|                  |              | RB12#6    | 21.5                  | -3.35                           | 18.15              | 0.065      | 1.000    | Pass      |         |      |
|                  |              | RB12#13   | 21.4                  | -3.35                           | 18.05              | 0.064      | 1.000    | Pass      |         |      |
|                  |              | RB25#0    | 21.48                 | -3.35                           | 18.13              | 0.065      | 1.000    | Pass      |         |      |
|                  | 16-QAM       | RB1#0     | 21.53                 | -3.35                           | 18.18              | 0.066      | 1.000    | Pass      |         |      |

| Test BW          | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND4</b> |              |           |                       |                                 |                    |            |          |           |         |
|                  |              |           | RB1#13                | 21.61                           | -3.35              | 18.26      | 0.067    | 1.000     | Pass    |
|                  |              |           | RB1#24                | 21.47                           | -3.35              | 18.12      | 0.065    | 1.000     | Pass    |
|                  |              |           | RB12#0                | 20.49                           | -3.35              | 17.14      | 0.052    | 1.000     | Pass    |
|                  |              |           | RB12#6                | 20.58                           | -3.35              | 17.23      | 0.053    | 1.000     | Pass    |
|                  |              |           | RB12#13               | 20.51                           | -3.35              | 17.16      | 0.052    | 1.000     | Pass    |
|                  |              |           | RB25#0                | 20.43                           | -3.35              | 17.08      | 0.051    | 1.000     | Pass    |
| 10 MHz           | LCH          | QPSK      | RB1#0                 | 22.51                           | -3.35              | 19.16      | 0.082    | 1.000     | Pass    |
|                  |              |           | RB1#25                | 22.62                           | -3.35              | 19.27      | 0.085    | 1.000     | Pass    |
|                  |              |           | RB1#49                | 22.43                           | -3.35              | 19.08      | 0.081    | 1.000     | Pass    |
|                  |              |           | RB25#0                | 21.6                            | -3.35              | 18.25      | 0.067    | 1.000     | Pass    |
|                  |              |           | RB25#13               | 21.57                           | -3.35              | 18.22      | 0.066    | 1.000     | Pass    |
|                  |              |           | RB25#25               | 21.55                           | -3.35              | 18.20      | 0.066    | 1.000     | Pass    |
|                  |              | RB50#0    | 21.56                 | -3.35                           | 18.21              | 0.066      | 1.000    | Pass      |         |
|                  |              | 16-QAM    | RB1#0                 | 21.51                           | -3.35              | 18.16      | 0.065    | 1.000     | Pass    |
|                  |              |           | RB1#25                | 21.62                           | -3.35              | 18.27      | 0.067    | 1.000     | Pass    |
|                  |              |           | RB1#49                | 21.43                           | -3.35              | 18.08      | 0.064    | 1.000     | Pass    |
|                  |              |           | RB25#0                | 20.59                           | -3.35              | 17.24      | 0.053    | 1.000     | Pass    |
|                  |              |           | RB25#13               | 20.65                           | -3.35              | 17.30      | 0.054    | 1.000     | Pass    |
|                  | RB25#25      |           | 20.61                 | -3.35                           | 17.26              | 0.053      | 1.000    | Pass      |         |
|                  | RB50#0       | 20.65     | -3.35                 | 17.30                           | 0.054              | 1.000      | Pass     |           |         |
|                  | MCH          | QPSK      | RB1#0                 | 22.54                           | -3.35              | 19.19      | 0.083    | 1.000     | Pass    |
|                  |              |           | RB1#25                | 22.72                           | -3.35              | 19.37      | 0.086    | 1.000     | Pass    |
|                  |              |           | RB1#49                | 22.46                           | -3.35              | 19.11      | 0.081    | 1.000     | Pass    |
|                  |              |           | RB25#0                | 21.6                            | -3.35              | 18.25      | 0.067    | 1.000     | Pass    |
|                  |              |           | RB25#13               | 21.55                           | -3.35              | 18.20      | 0.066    | 1.000     | Pass    |
|                  |              |           | RB25#25               | 21.59                           | -3.35              | 18.24      | 0.067    | 1.000     | Pass    |
|                  |              | RB50#0    | 21.62                 | -3.35                           | 18.27              | 0.067      | 1.000    | Pass      |         |
|                  |              | 16-QAM    | RB1#0                 | 21.98                           | -3.35              | 18.63      | 0.073    | 1.000     | Pass    |
|                  |              |           | RB1#25                | 22.06                           | -3.35              | 18.71      | 0.074    | 1.000     | Pass    |
|                  |              |           | RB1#49                | 21.9                            | -3.35              | 18.55      | 0.072    | 1.000     | Pass    |
| RB25#0           |              |           | 20.68                 | -3.35                           | 17.33              | 0.054      | 1.000    | Pass      |         |
| RB25#13          |              |           | 20.65                 | -3.35                           | 17.30              | 0.054      | 1.000    | Pass      |         |
| RB25#25          | 20.67        |           | -3.35                 | 17.32                           | 0.054              | 1.000      | Pass     |           |         |
| RB50#0           | 20.64        | -3.35     | 17.29                 | 0.054                           | 1.000              | Pass       |          |           |         |
| HCH              | QPSK         | RB1#0     | 22.45                 | -3.35                           | 19.10              | 0.081      | 1.000    | Pass      |         |
|                  |              | RB1#25    | 22.59                 | -3.35                           | 19.24              | 0.084      | 1.000    | Pass      |         |
|                  |              | RB1#49    | 22.36                 | -3.35                           | 19.01              | 0.080      | 1.000    | Pass      |         |
|                  |              | RB25#0    | 21.51                 | -3.35                           | 18.16              | 0.065      | 1.000    | Pass      |         |
|                  |              | RB25#13   | 21.47                 | -3.35                           | 18.12              | 0.065      | 1.000    | Pass      |         |
|                  |              | RB25#25   | 21.45                 | -3.35                           | 18.10              | 0.065      | 1.000    | Pass      |         |

| Test BW          | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND4</b> |              |           |                       |                                 |                    |            |          |           |         |
|                  |              | 16-QAM    | RB50#0                | 21.5                            | -3.35              | 18.15      | 0.065    | 1.000     | Pass    |
|                  |              |           | RB1#0                 | 21.49                           | -3.35              | 18.14      | 0.065    | 1.000     | Pass    |
|                  |              |           | RB1#25                | 21.63                           | -3.35              | 18.28      | 0.067    | 1.000     | Pass    |
|                  |              |           | RB1#49                | 21.4                            | -3.35              | 18.05      | 0.064    | 1.000     | Pass    |
|                  |              |           | RB25#0                | 20.66                           | -3.35              | 17.31      | 0.054    | 1.000     | Pass    |
|                  |              |           | RB25#13               | 20.62                           | -3.35              | 17.27      | 0.053    | 1.000     | Pass    |
|                  |              |           | RB25#25               | 20.6                            | -3.35              | 17.25      | 0.053    | 1.000     | Pass    |
| 15 MHz           | LCH          | QPSK      | RB1#0                 | 22.49                           | -3.35              | 19.14      | 0.082    | 1.000     | Pass    |
|                  |              |           | RB1#38                | 22.51                           | -3.35              | 19.16      | 0.082    | 1.000     | Pass    |
|                  |              |           | RB1#74                | 22.35                           | -3.35              | 19.00      | 0.079    | 1.000     | Pass    |
|                  |              |           | RB36#0                | 21.62                           | -3.35              | 18.27      | 0.067    | 1.000     | Pass    |
|                  |              |           | RB36#19               | 21.58                           | -3.35              | 18.23      | 0.067    | 1.000     | Pass    |
|                  |              |           | RB36#39               | 21.52                           | -3.35              | 18.17      | 0.066    | 1.000     | Pass    |
|                  |              |           | RB75#0                | 21.55                           | -3.35              | 18.20      | 0.066    | 1.000     | Pass    |
|                  |              | 16-QAM    | RB1#0                 | 21.47                           | -3.35              | 18.12      | 0.065    | 1.000     | Pass    |
|                  |              |           | RB1#38                | 21.5                            | -3.35              | 18.15      | 0.065    | 1.000     | Pass    |
|                  |              |           | RB1#74                | 21.37                           | -3.35              | 18.02      | 0.063    | 1.000     | Pass    |
|                  |              |           | RB36#0                | 20.56                           | -3.35              | 17.21      | 0.053    | 1.000     | Pass    |
|                  |              |           | RB36#19               | 20.57                           | -3.35              | 17.22      | 0.053    | 1.000     | Pass    |
|                  |              |           | RB36#39               | 20.5                            | -3.35              | 17.15      | 0.052    | 1.000     | Pass    |
|                  |              |           | RB75#0                | 20.55                           | -3.35              | 17.20      | 0.052    | 1.000     | Pass    |
|                  | MCH          | QPSK      | RB1#0                 | 22.51                           | -3.35              | 19.16      | 0.082    | 1.000     | Pass    |
|                  |              |           | RB1#38                | 22.54                           | -3.35              | 19.19      | 0.083    | 1.000     | Pass    |
|                  |              |           | RB1#74                | 22.37                           | -3.35              | 19.02      | 0.080    | 1.000     | Pass    |
|                  |              |           | RB36#0                | 21.61                           | -3.35              | 18.26      | 0.067    | 1.000     | Pass    |
|                  |              |           | RB36#19               | 21.64                           | -3.35              | 18.29      | 0.067    | 1.000     | Pass    |
|                  |              |           | RB36#39               | 21.59                           | -3.35              | 18.24      | 0.067    | 1.000     | Pass    |
|                  |              |           | RB75#0                | 21.6                            | -3.35              | 18.25      | 0.067    | 1.000     | Pass    |
|                  |              | 16-QAM    | RB1#0                 | 21.94                           | -3.35              | 18.59      | 0.072    | 1.000     | Pass    |
|                  |              |           | RB1#38                | 21.94                           | -3.35              | 18.59      | 0.072    | 1.000     | Pass    |
|                  |              |           | RB1#74                | 21.76                           | -3.35              | 18.41      | 0.069    | 1.000     | Pass    |
|                  |              |           | RB36#0                | 20.64                           | -3.35              | 17.29      | 0.054    | 1.000     | Pass    |
|                  |              |           | RB36#19               | 20.7                            | -3.35              | 17.35      | 0.054    | 1.000     | Pass    |
|                  |              |           | RB36#39               | 20.59                           | -3.35              | 17.24      | 0.053    | 1.000     | Pass    |
|                  |              |           | RB75#0                | 20.59                           | -3.35              | 17.24      | 0.053    | 1.000     | Pass    |
| HCH              | QPSK         | RB1#0     | 22.44                 | -3.35                           | 19.09              | 0.081      | 1.000    | Pass      |         |
|                  |              | RB1#38    | 22.45                 | -3.35                           | 19.10              | 0.081      | 1.000    | Pass      |         |
|                  |              | RB1#74    | 22.29                 | -3.35                           | 18.94              | 0.078      | 1.000    | Pass      |         |
|                  |              | RB36#0    | 21.56                 | -3.35                           | 18.21              | 0.066      | 1.000    | Pass      |         |

| Test BW          | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |      |
|------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|------|
| <b>LTE BAND4</b> |              |           |                       |                                 |                    |            |          |           |         |      |
| 20 MHz           |              |           | RB36#19               | 21.53                           | -3.35              | 18.18      | 0.066    | 1.000     | Pass    |      |
|                  |              |           | RB36#39               | 21.43                           | -3.35              | 18.08      | 0.064    | 1.000     | Pass    |      |
|                  |              |           | RB75#0                | 21.49                           | -3.35              | 18.14      | 0.065    | 1.000     | Pass    |      |
|                  |              | 16-QAM    | RB1#0                 | 21.94                           | -3.35              | 18.59      | 0.072    | 1.000     | Pass    |      |
|                  |              |           | RB1#38                | 21.91                           | -3.35              | 18.56      | 0.072    | 1.000     | Pass    |      |
|                  |              |           | RB1#74                | 21.81                           | -3.35              | 18.46      | 0.070    | 1.000     | Pass    |      |
|                  |              |           | RB36#0                | 20.51                           | -3.35              | 17.16      | 0.052    | 1.000     | Pass    |      |
|                  |              |           | RB36#19               | 20.47                           | -3.35              | 17.12      | 0.052    | 1.000     | Pass    |      |
|                  |              |           | RB36#39               | 20.38                           | -3.35              | 17.03      | 0.050    | 1.000     | Pass    |      |
|                  |              | LCH       | QPSK                  | RB1#0                           | 22.49              | -3.35      | 19.14    | 0.082     | 1.000   | Pass |
|                  |              |           |                       | RB1#50                          | 22.63              | -3.35      | 19.28    | 0.085     | 1.000   | Pass |
|                  |              |           |                       | RB1#99                          | 22.36              | -3.35      | 19.01    | 0.080     | 1.000   | Pass |
|                  |              |           |                       | RB50#0                          | 21.56              | -3.35      | 18.21    | 0.066     | 1.000   | Pass |
|                  |              |           |                       | RB50#25                         | 21.54              | -3.35      | 18.19    | 0.066     | 1.000   | Pass |
|                  |              |           |                       | RB50#50                         | 21.53              | -3.35      | 18.18    | 0.066     | 1.000   | Pass |
|                  |              |           | 16-QAM                | RB100#0                         | 21.52              | -3.35      | 18.17    | 0.066     | 1.000   | Pass |
|                  |              |           |                       | RB1#0                           | 22.04              | -3.35      | 18.69    | 0.074     | 1.000   | Pass |
|                  |              |           |                       | RB1#50                          | 22.21              | -3.35      | 18.86    | 0.077     | 1.000   | Pass |
|                  |              |           |                       | RB1#99                          | 21.94              | -3.35      | 18.59    | 0.072     | 1.000   | Pass |
| RB50#0           | 20.57        |           |                       | -3.35                           | 17.22              | 0.053      | 1.000    | Pass      |         |      |
| RB50#25          | 20.61        |           |                       | -3.35                           | 17.26              | 0.053      | 1.000    | Pass      |         |      |
| MCH              | QPSK         | RB50#50   | 20.58                 | -3.35                           | 17.23              | 0.053      | 1.000    | Pass      |         |      |
|                  |              | RB100#0   | 20.59                 | -3.35                           | 17.24              | 0.053      | 1.000    | Pass      |         |      |
|                  |              | RB1#0     | 22.51                 | -3.35                           | 19.16              | 0.082      | 1.000    | Pass      |         |      |
|                  |              | RB1#50    | 22.73                 | -3.35                           | 19.38              | 0.087      | 1.000    | Pass      |         |      |
|                  |              | RB1#99    | 22.32                 | -3.35                           | 18.97              | 0.079      | 1.000    | Pass      |         |      |
|                  |              | RB50#0    | 21.54                 | -3.35                           | 18.19              | 0.066      | 1.000    | Pass      |         |      |
|                  | 16-QAM       | RB50#25   | 21.54                 | -3.35                           | 18.19              | 0.066      | 1.000    | Pass      |         |      |
|                  |              | RB50#50   | 21.51                 | -3.35                           | 18.16              | 0.065      | 1.000    | Pass      |         |      |
|                  |              | RB100#0   | 21.52                 | -3.35                           | 18.17              | 0.066      | 1.000    | Pass      |         |      |
|                  |              | RB1#0     | 21.97                 | -3.35                           | 18.62              | 0.073      | 1.000    | Pass      |         |      |
|                  |              | RB1#50    | 22.15                 | -3.35                           | 18.80              | 0.076      | 1.000    | Pass      |         |      |
|                  |              | RB1#99    | 21.78                 | -3.35                           | 18.43              | 0.070      | 1.000    | Pass      |         |      |
| HCH              | QPSK         | RB50#0    | 20.63                 | -3.35                           | 17.28              | 0.053      | 1.000    | Pass      |         |      |
|                  |              | RB50#25   | 20.62                 | -3.35                           | 17.27              | 0.053      | 1.000    | Pass      |         |      |
|                  |              |           | RB50#50               | 20.53                           | -3.35              | 17.18      | 0.052    | 1.000     | Pass    |      |
|                  |              |           | RB100#0               | 20.53                           | -3.35              | 17.18      | 0.052    | 1.000     | Pass    |      |
|                  |              |           | RB1#0                 | 22.42                           | -3.35              | 19.07      | 0.081    | 1.000     | Pass    |      |
|                  |              |           | RB1#50                | 22.57                           | -3.35              | 19.22      | 0.084    | 1.000     | Pass    |      |

| Test BW          | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND4</b> |              |           |                       |                                 |                    |            |          |           |         |
|                  |              |           | RB1#99                | 22.17                           | -3.35              | 18.82      | 0.076    | 1.000     | Pass    |
|                  |              |           | RB50#0                | 21.57                           | -3.35              | 18.22      | 0.066    | 1.000     | Pass    |
|                  |              |           | RB50#25               | 21.5                            | -3.35              | 18.15      | 0.065    | 1.000     | Pass    |
|                  |              |           | RB50#50               | 21.38                           | -3.35              | 18.03      | 0.064    | 1.000     | Pass    |
|                  |              |           | RB100#0               | 21.48                           | -3.35              | 18.13      | 0.065    | 1.000     | Pass    |
|                  |              | 16-QAM    | RB1#0                 | 21.9                            | -3.35              | 18.55      | 0.072    | 1.000     | Pass    |
|                  |              |           | RB1#50                | 22.02                           | -3.35              | 18.67      | 0.074    | 1.000     | Pass    |
|                  |              |           | RB1#99                | 21.71                           | -3.35              | 18.36      | 0.069    | 1.000     | Pass    |
|                  |              |           | RB50#0                | 20.6                            | -3.35              | 17.25      | 0.053    | 1.000     | Pass    |
|                  |              |           | RB50#25               | 20.51                           | -3.35              | 17.16      | 0.052    | 1.000     | Pass    |
|                  |              |           | RB50#50               | 20.38                           | -3.35              | 17.03      | 0.050    | 1.000     | Pass    |
|                  |              |           | RB100#0               | 20.48                           | -3.35              | 17.13      | 0.052    | 1.000     | Pass    |

| Test BW          | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | Antenna Gain (dBd) | ERP (dBm) | ERP (W) | Limit (W) | Verdict |
|------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|--------------------|-----------|---------|-----------|---------|
| <b>LTE BAND5</b> |              |           |                       |                                 |                    |                    |           |         |           |         |
| 1.4 MHz          | LCH          | QPSK      | RB1#0                 | 23.16                           | -5.29              | -7.44              | 15.72     | 0.037   | 7.000     | Pass    |
|                  |              |           | RB1#3                 | 23.3                            | -5.29              | -7.44              | 15.86     | 0.039   | 7.000     | Pass    |
|                  |              |           | RB1#5                 | 23.17                           | -5.29              | -7.44              | 15.73     | 0.037   | 7.000     | Pass    |
|                  |              |           | RB3#0                 | 23.42                           | -5.29              | -7.44              | 15.98     | 0.040   | 7.000     | Pass    |
|                  |              |           | RB3#2                 | 23.46                           | -5.29              | -7.44              | 16.02     | 0.040   | 7.000     | Pass    |
|                  |              |           | RB3#3                 | 23.44                           | -5.29              | -7.44              | 16.00     | 0.040   | 7.000     | Pass    |
|                  |              | RB6#0     | 22.19                 | -5.29                           | -7.44              | 14.75              | 0.030     | 7.000   | Pass      |         |
|                  |              | 16-QAM    | RB1#0                 | 22.48                           | -5.29              | -7.44              | 15.04     | 0.032   | 7.000     | Pass    |
|                  |              |           | RB1#3                 | 22.68                           | -5.29              | -7.44              | 15.24     | 0.033   | 7.000     | Pass    |
|                  |              |           | RB1#5                 | 22.48                           | -5.29              | -7.44              | 15.04     | 0.032   | 7.000     | Pass    |
|                  |              |           | RB3#0                 | 22.62                           | -5.29              | -7.44              | 15.18     | 0.033   | 7.000     | Pass    |
|                  |              |           | RB3#2                 | 22.57                           | -5.29              | -7.44              | 15.13     | 0.033   | 7.000     | Pass    |
|                  | RB3#3        |           | 22.61                 | -5.29                           | -7.44              | 15.17              | 0.033     | 7.000   | Pass      |         |
|                  | RB6#0        | 21.6      | -5.29                 | -7.44                           | 14.16              | 0.026              | 7.000     | Pass    |           |         |
|                  | MCH          | QPSK      | RB1#0                 | 23.29                           | -5.29              | -7.44              | 15.85     | 0.038   | 7.000     | Pass    |
|                  |              |           | RB1#3                 | 23.46                           | -5.29              | -7.44              | 16.02     | 0.040   | 7.000     | Pass    |
|                  |              |           | RB1#5                 | 23.26                           | -5.29              | -7.44              | 15.82     | 0.038   | 7.000     | Pass    |
|                  |              |           | RB3#0                 | 23.43                           | -5.29              | -7.44              | 15.99     | 0.040   | 7.000     | Pass    |
|                  |              |           | RB3#2                 | 23.47                           | -5.29              | -7.44              | 16.03     | 0.040   | 7.000     | Pass    |
|                  |              |           | RB3#3                 | 23.46                           | -5.29              | -7.44              | 16.02     | 0.040   | 7.000     | Pass    |
|                  |              | RB6#0     | 22.33                 | -5.29                           | -7.44              | 14.89              | 0.031     | 7.000   | Pass      |         |
|                  |              | 16-QAM    | RB1#0                 | 22.72                           | -5.29              | -7.44              | 15.28     | 0.034   | 7.000     | Pass    |
|                  |              |           | RB1#3                 | 22.89                           | -5.29              | -7.44              | 15.45     | 0.035   | 7.000     | Pass    |
|                  |              |           | RB1#5                 | 22.7                            | -5.29              | -7.44              | 15.26     | 0.034   | 7.000     | Pass    |
|                  |              |           | RB3#0                 | 22.65                           | -5.29              | -7.44              | 15.21     | 0.033   | 7.000     | Pass    |
|                  |              |           | RB3#2                 | 22.63                           | -5.29              | -7.44              | 15.19     | 0.033   | 7.000     | Pass    |
|                  | RB3#3        |           | 22.63                 | -5.29                           | -7.44              | 15.19              | 0.033     | 7.000   | Pass      |         |
|                  | RB6#0        | 21.31     | -5.29                 | -7.44                           | 13.87              | 0.024              | 7.000     | Pass    |           |         |
|                  | HCH          | QPSK      | RB1#0                 | 23.24                           | -5.29              | -7.44              | 15.80     | 0.038   | 7.000     | Pass    |
|                  |              |           | RB1#3                 | 23.47                           | -5.29              | -7.44              | 16.03     | 0.040   | 7.000     | Pass    |
|                  |              |           | RB1#5                 | 23.27                           | -5.29              | -7.44              | 15.83     | 0.038   | 7.000     | Pass    |
|                  |              |           | RB3#0                 | 23.42                           | -5.29              | -7.44              | 15.98     | 0.040   | 7.000     | Pass    |
|                  |              |           | RB3#2                 | 23.47                           | -5.29              | -7.44              | 16.03     | 0.040   | 7.000     | Pass    |
|                  |              |           | RB3#3                 | 23.48                           | -5.29              | -7.44              | 16.04     | 0.040   | 7.000     | Pass    |
|                  |              | RB6#0     | 22.3                  | -5.29                           | -7.44              | 14.86              | 0.031     | 7.000   | Pass      |         |
|                  |              | 16-QAM    | RB1#0                 | 22.3                            | -5.29              | -7.44              | 14.86     | 0.031   | 7.000     | Pass    |
| RB1#3            |              |           | 22.48                 | -5.29                           | -7.44              | 15.04              | 0.032     | 7.000   | Pass      |         |
| RB1#5            |              |           | 22.3                  | -5.29                           | -7.44              | 14.86              | 0.031     | 7.000   | Pass      |         |
| RB3#0            |              |           | 22.52                 | -5.29                           | -7.44              | 15.08              | 0.032     | 7.000   | Pass      |         |

| Test BW          | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | Antenna Gain (dBd) | ERP (dBm) | ERP (W) | Limit (W) | Verdict |      |
|------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|--------------------|-----------|---------|-----------|---------|------|
| <b>LTE BAND5</b> |              |           |                       |                                 |                    |                    |           |         |           |         |      |
| 3 MHz            |              |           | RB3#2                 | 22.61                           | -5.29              | -7.44              | 15.17     | 0.033   | 7.000     | Pass    |      |
|                  |              |           | RB3#3                 | 22.57                           | -5.29              | -7.44              | 15.13     | 0.033   | 7.000     | Pass    |      |
|                  |              |           | RB6#0                 | 21.48                           | -5.29              | -7.44              | 14.04     | 0.025   | 7.000     | Pass    |      |
|                  | LCH          | QPSK      | RB1#0                 | 23.18                           | -5.29              | -7.44              | 15.74     | 0.037   | 7.000     | Pass    |      |
|                  |              |           | RB1#7                 | 23.17                           | -5.29              | -7.44              | 15.73     | 0.037   | 7.000     | Pass    |      |
|                  |              |           | RB1#14                | 23.15                           | -5.29              | -7.44              | 15.71     | 0.037   | 7.000     | Pass    |      |
|                  |              |           | RB8#0                 | 22.24                           | -5.29              | -7.44              | 14.80     | 0.030   | 7.000     | Pass    |      |
|                  |              |           | RB8#4                 | 22.28                           | -5.29              | -7.44              | 14.84     | 0.030   | 7.000     | Pass    |      |
|                  |              |           | RB8#7                 | 22.24                           | -5.29              | -7.44              | 14.80     | 0.030   | 7.000     | Pass    |      |
|                  |              | RB15#0    | 22.3                  | -5.29                           | -7.44              | 14.86              | 0.031     | 7.000   | Pass      |         |      |
|                  |              | 16-QAM    | RB1#0                 | 22.34                           | -5.29              | -7.44              | 14.90     | 0.031   | 7.000     | Pass    |      |
|                  |              |           | RB1#7                 | 22.33                           | -5.29              | -7.44              | 14.89     | 0.031   | 7.000     | Pass    |      |
|                  |              |           | RB1#14                | 22.28                           | -5.29              | -7.44              | 14.84     | 0.030   | 7.000     | Pass    |      |
|                  |              |           | RB8#0                 | 21.53                           | -5.29              | -7.44              | 14.09     | 0.026   | 7.000     | Pass    |      |
|                  |              |           | RB8#4                 | 21.59                           | -5.29              | -7.44              | 14.15     | 0.026   | 7.000     | Pass    |      |
|                  |              |           | RB8#7                 | 21.53                           | -5.29              | -7.44              | 14.09     | 0.026   | 7.000     | Pass    |      |
|                  |              | RB15#0    | 21.5                  | -5.29                           | -7.44              | 14.06              | 0.025     | 7.000   | Pass      |         |      |
|                  |              | MCH       | QPSK                  | RB1#0                           | 23.27              | -5.29              | -7.44     | 15.83   | 0.038     | 7.000   | Pass |
|                  |              |           |                       | RB1#7                           | 23.32              | -5.29              | -7.44     | 15.88   | 0.039     | 7.000   | Pass |
|                  |              |           |                       | RB1#14                          | 23.32              | -5.29              | -7.44     | 15.88   | 0.039     | 7.000   | Pass |
|                  |              |           |                       | RB8#0                           | 22.31              | -5.29              | -7.44     | 14.87   | 0.031     | 7.000   | Pass |
|                  | RB8#4        |           |                       | 22.38                           | -5.29              | -7.44              | 14.94     | 0.031   | 7.000     | Pass    |      |
|                  | RB8#7        |           |                       | 22.27                           | -5.29              | -7.44              | 14.83     | 0.030   | 7.000     | Pass    |      |
|                  | RB15#0       |           | 22.35                 | -5.29                           | -7.44              | 14.91              | 0.031     | 7.000   | Pass      |         |      |
|                  | 16-QAM       |           | RB1#0                 | 22.68                           | -5.29              | -7.44              | 15.24     | 0.033   | 7.000     | Pass    |      |
|                  |              |           | RB1#7                 | 22.73                           | -5.29              | -7.44              | 15.29     | 0.034   | 7.000     | Pass    |      |
|                  |              |           | RB1#14                | 22.73                           | -5.29              | -7.44              | 15.29     | 0.034   | 7.000     | Pass    |      |
|                  |              |           | RB8#0                 | 21.44                           | -5.29              | -7.44              | 14.00     | 0.025   | 7.000     | Pass    |      |
|                  |              |           | RB8#4                 | 21.53                           | -5.29              | -7.44              | 14.09     | 0.026   | 7.000     | Pass    |      |
|                  |              | RB8#7     | 21.42                 | -5.29                           | -7.44              | 13.98              | 0.025     | 7.000   | Pass      |         |      |
| RB15#0           | 21.42        | -5.29     | -7.44                 | 13.98                           | 0.025              | 7.000              | Pass      |         |           |         |      |
| HCH              | QPSK         | RB1#0     | 23.27                 | -5.29                           | -7.44              | 15.83              | 0.038     | 7.000   | Pass      |         |      |
|                  |              | RB1#7     | 23.28                 | -5.29                           | -7.44              | 15.84              | 0.038     | 7.000   | Pass      |         |      |
|                  |              | RB1#14    | 23.28                 | -5.29                           | -7.44              | 15.84              | 0.038     | 7.000   | Pass      |         |      |
|                  |              | RB8#0     | 22.26                 | -5.29                           | -7.44              | 14.82              | 0.030     | 7.000   | Pass      |         |      |
|                  |              | RB8#4     | 22.31                 | -5.29                           | -7.44              | 14.87              | 0.031     | 7.000   | Pass      |         |      |
|                  |              | RB8#7     | 22.23                 | -5.29                           | -7.44              | 14.79              | 0.030     | 7.000   | Pass      |         |      |
|                  | RB15#0       | 22.32     | -5.29                 | -7.44                           | 14.88              | 0.031              | 7.000     | Pass    |           |         |      |
|                  | 16-QAM       | RB1#0     | 22.35                 | -5.29                           | -7.44              | 14.91              | 0.031     | 7.000   | Pass      |         |      |
|                  |              | RB1#7     | 22.34                 | -5.29                           | -7.44              | 14.90              | 0.031     | 7.000   | Pass      |         |      |

| Test BW          | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | Antenna Gain (dBd) | ERP (dBm) | ERP (W) | Limit (W) | Verdict |      |
|------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|--------------------|-----------|---------|-----------|---------|------|
| <b>LTE BAND5</b> |              |           |                       |                                 |                    |                    |           |         |           |         |      |
| 5 MHz            |              |           | RB1#14                | 22.29                           | -5.29              | -7.44              | 14.85     | 0.031   | 7.000     | Pass    |      |
|                  |              |           | RB8#0                 | 21.37                           | -5.29              | -7.44              | 13.93     | 0.025   | 7.000     | Pass    |      |
|                  |              |           | RB8#4                 | 21.44                           | -5.29              | -7.44              | 14.00     | 0.025   | 7.000     | Pass    |      |
|                  |              |           | RB8#7                 | 21.36                           | -5.29              | -7.44              | 13.92     | 0.025   | 7.000     | Pass    |      |
|                  |              |           | RB15#0                | 21.31                           | -5.29              | -7.44              | 13.87     | 0.024   | 7.000     | Pass    |      |
|                  | LCH          | QPSK      | RB1#0                 | 23.15                           | -5.29              | -7.44              | 15.71     | 0.037   | 7.000     | Pass    |      |
|                  |              |           | RB1#13                | 23.35                           | -5.29              | -7.44              | 15.91     | 0.039   | 7.000     | Pass    |      |
|                  |              |           | RB1#24                | 23.2                            | -5.29              | -7.44              | 15.76     | 0.038   | 7.000     | Pass    |      |
|                  |              |           | RB12#0                | 22.26                           | -5.29              | -7.44              | 14.82     | 0.030   | 7.000     | Pass    |      |
|                  |              |           | RB12#6                | 22.38                           | -5.29              | -7.44              | 14.94     | 0.031   | 7.000     | Pass    |      |
|                  |              |           | RB12#13               | 22.37                           | -5.29              | -7.44              | 14.93     | 0.031   | 7.000     | Pass    |      |
|                  |              | 16-QAM    | RB25#0                | 22.37                           | -5.29              | -7.44              | 14.93     | 0.031   | 7.000     | Pass    |      |
|                  |              |           | RB1#0                 | 22.53                           | -5.29              | -7.44              | 15.09     | 0.032   | 7.000     | Pass    |      |
|                  |              |           | RB1#13                | 22.63                           | -5.29              | -7.44              | 15.19     | 0.033   | 7.000     | Pass    |      |
|                  |              |           | RB1#24                | 22.46                           | -5.29              | -7.44              | 15.02     | 0.032   | 7.000     | Pass    |      |
|                  |              |           | RB12#0                | 21.51                           | -5.29              | -7.44              | 14.07     | 0.026   | 7.000     | Pass    |      |
|                  |              |           | RB12#6                | 21.58                           | -5.29              | -7.44              | 14.14     | 0.026   | 7.000     | Pass    |      |
|                  |              | MCH       | QPSK                  | RB12#13                         | 21.56              | -5.29              | -7.44     | 14.12   | 0.026     | 7.000   | Pass |
|                  |              |           |                       | RB25#0                          | 21.54              | -5.29              | -7.44     | 14.10   | 0.026     | 7.000   | Pass |
|                  |              |           |                       | RB1#0                           | 23.21              | -5.29              | -7.44     | 15.77   | 0.038     | 7.000   | Pass |
|                  |              |           |                       | RB1#13                          | 23.33              | -5.29              | -7.44     | 15.89   | 0.039     | 7.000   | Pass |
|                  |              |           |                       | RB1#24                          | 23.2               | -5.29              | -7.44     | 15.76   | 0.038     | 7.000   | Pass |
|                  |              |           |                       | RB12#0                          | 22.36              | -5.29              | -7.44     | 14.92   | 0.031     | 7.000   | Pass |
|                  | 16-QAM       |           | RB12#6                | 22.43                           | -5.29              | -7.44              | 14.99     | 0.032   | 7.000     | Pass    |      |
|                  |              |           | RB12#13               | 22.3                            | -5.29              | -7.44              | 14.86     | 0.031   | 7.000     | Pass    |      |
|                  |              |           | RB25#0                | 22.36                           | -5.29              | -7.44              | 14.92     | 0.031   | 7.000     | Pass    |      |
|                  |              |           | RB1#0                 | 22.76                           | -5.29              | -7.44              | 15.32     | 0.034   | 7.000     | Pass    |      |
|                  |              |           | RB1#13                | 22.87                           | -5.29              | -7.44              | 15.43     | 0.035   | 7.000     | Pass    |      |
| RB1#24           |              |           | 22.76                 | -5.29                           | -7.44              | 15.32              | 0.034     | 7.000   | Pass      |         |      |
| HCH              | QPSK         | RB12#0    | 21.56                 | -5.29                           | -7.44              | 14.12              | 0.026     | 7.000   | Pass      |         |      |
|                  |              | RB12#6    | 21.6                  | -5.29                           | -7.44              | 14.16              | 0.026     | 7.000   | Pass      |         |      |
|                  |              | RB12#13   | 21.54                 | -5.29                           | -7.44              | 14.10              | 0.026     | 7.000   | Pass      |         |      |
|                  |              | RB25#0    | 21.51                 | -5.29                           | -7.44              | 14.07              | 0.026     | 7.000   | Pass      |         |      |
|                  |              | RB1#0     | 23.19                 | -5.29                           | -7.44              | 15.75              | 0.038     | 7.000   | Pass      |         |      |
|                  |              | RB1#13    | 23.27                 | -5.29                           | -7.44              | 15.83              | 0.038     | 7.000   | Pass      |         |      |
|                  |              | RB1#24    | 23.18                 | -5.29                           | -7.44              | 15.74              | 0.037     | 7.000   | Pass      |         |      |
| RB12#0           | 22.37        | -5.29     | -7.44                 | 14.93                           | 0.031              | 7.000              | Pass      |         |           |         |      |
| RB12#6           | 22.38        | -5.29     | -7.44                 | 14.94                           | 0.031              | 7.000              | Pass      |         |           |         |      |
| RB12#13          | 22.22        | -5.29     | -7.44                 | 14.78                           | 0.030              | 7.000              | Pass      |         |           |         |      |
| RB25#0           | 22.34        | -5.29     | -7.44                 | 14.90                           | 0.031              | 7.000              | Pass      |         |           |         |      |



| Test BW          | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | Antenna Gain (dBd) | ERP (dBm) | ERP (W) | Limit (W) | Verdict |
|------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|--------------------|-----------|---------|-----------|---------|
| <b>LTE BAND5</b> |              |           |                       |                                 |                    |                    |           |         |           |         |
| 10 MHz           |              | 16-QAM    | RB1#0                 | 22.42                           | -5.29              | -7.44              | 14.98     | 0.031   | 7.000     | Pass    |
|                  |              |           | RB1#13                | 22.42                           | -5.29              | -7.44              | 14.98     | 0.031   | 7.000     | Pass    |
|                  |              |           | RB1#24                | 22.29                           | -5.29              | -7.44              | 14.85     | 0.031   | 7.000     | Pass    |
|                  |              |           | RB12#0                | 21.51                           | -5.29              | -7.44              | 14.07     | 0.026   | 7.000     | Pass    |
|                  |              |           | RB12#6                | 21.47                           | -5.29              | -7.44              | 14.03     | 0.025   | 7.000     | Pass    |
|                  |              |           | RB12#13               | 21.32                           | -5.29              | -7.44              | 13.88     | 0.024   | 7.000     | Pass    |
|                  |              |           | RB25#0                | 21.36                           | -5.29              | -7.44              | 13.92     | 0.025   | 7.000     | Pass    |
|                  | LCH          | QPSK      | RB1#0                 | 23.19                           | -5.29              | -7.44              | 15.75     | 0.038   | 7.000     | Pass    |
|                  |              |           | RB1#25                | 23.38                           | -5.29              | -7.44              | 15.94     | 0.039   | 7.000     | Pass    |
|                  |              |           | RB1#49                | 23.3                            | -5.29              | -7.44              | 15.86     | 0.039   | 7.000     | Pass    |
|                  |              |           | RB25#0                | 22.31                           | -5.29              | -7.44              | 14.87     | 0.031   | 7.000     | Pass    |
|                  |              |           | RB25#13               | 22.35                           | -5.29              | -7.44              | 14.91     | 0.031   | 7.000     | Pass    |
|                  |              |           | RB25#25               | 22.34                           | -5.29              | -7.44              | 14.90     | 0.031   | 7.000     | Pass    |
|                  |              |           | RB50#0                | 22.33                           | -5.29              | -7.44              | 14.89     | 0.031   | 7.000     | Pass    |
|                  |              | 16-QAM    | RB1#0                 | 22.37                           | -5.29              | -7.44              | 14.93     | 0.031   | 7.000     | Pass    |
|                  |              |           | RB1#25                | 22.4                            | -5.29              | -7.44              | 14.96     | 0.031   | 7.000     | Pass    |
|                  |              |           | RB1#49                | 22.22                           | -5.29              | -7.44              | 14.78     | 0.030   | 7.000     | Pass    |
|                  |              |           | RB25#0                | 21.46                           | -5.29              | -7.44              | 14.02     | 0.025   | 7.000     | Pass    |
|                  |              |           | RB25#13               | 21.47                           | -5.29              | -7.44              | 14.03     | 0.025   | 7.000     | Pass    |
|                  |              |           | RB25#25               | 21.46                           | -5.29              | -7.44              | 14.02     | 0.025   | 7.000     | Pass    |
|                  |              |           | RB50#0                | 21.4                            | -5.29              | -7.44              | 13.96     | 0.025   | 7.000     | Pass    |
|                  | MCH          | QPSK      | RB1#0                 | 23.32                           | -5.29              | -7.44              | 15.88     | 0.039   | 7.000     | Pass    |
|                  |              |           | RB1#25                | 23.43                           | -5.29              | -7.44              | 15.99     | 0.040   | 7.000     | Pass    |
|                  |              |           | RB1#49                | 23.27                           | -5.29              | -7.44              | 15.83     | 0.038   | 7.000     | Pass    |
|                  |              |           | RB25#0                | 22.51                           | -5.29              | -7.44              | 15.07     | 0.032   | 7.000     | Pass    |
|                  |              |           | RB25#13               | 22.39                           | -5.29              | -7.44              | 14.95     | 0.031   | 7.000     | Pass    |
|                  |              |           | RB25#25               | 22.36                           | -5.29              | -7.44              | 14.92     | 0.031   | 7.000     | Pass    |
|                  |              |           | RB50#0                | 22.46                           | -5.29              | -7.44              | 15.02     | 0.032   | 7.000     | Pass    |
| 16-QAM           |              | RB1#0     | 22.74                 | -5.29                           | -7.44              | 15.30              | 0.034     | 7.000   | Pass      |         |
|                  |              | RB1#25    | 22.81                 | -5.29                           | -7.44              | 15.37              | 0.034     | 7.000   | Pass      |         |
|                  |              | RB1#49    | 22.75                 | -5.29                           | -7.44              | 15.31              | 0.034     | 7.000   | Pass      |         |
|                  |              | RB25#0    | 21.58                 | -5.29                           | -7.44              | 14.14              | 0.026     | 7.000   | Pass      |         |
|                  |              | RB25#13   | 21.49                 | -5.29                           | -7.44              | 14.05              | 0.025     | 7.000   | Pass      |         |
|                  |              | RB25#25   | 21.51                 | -5.29                           | -7.44              | 14.07              | 0.026     | 7.000   | Pass      |         |
|                  |              | RB50#0    | 21.52                 | -5.29                           | -7.44              | 14.08              | 0.026     | 7.000   | Pass      |         |
| HCH              | QPSK         | RB1#0     | 23.35                 | -5.29                           | -7.44              | 15.91              | 0.039     | 7.000   | Pass      |         |
|                  |              | RB1#25    | 23.43                 | -5.29                           | -7.44              | 15.99              | 0.040     | 7.000   | Pass      |         |
|                  |              | RB1#49    | 23.26                 | -5.29                           | -7.44              | 15.82              | 0.038     | 7.000   | Pass      |         |
|                  |              | RB25#0    | 22.4                  | -5.29                           | -7.44              | 14.96              | 0.031     | 7.000   | Pass      |         |
|                  |              | RB25#13   | 22.39                 | -5.29                           | -7.44              | 14.95              | 0.031     | 7.000   | Pass      |         |

| Test BW          | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | Antenna Gain (dBd) | ERP (dBm) | ERP (W) | Limit (W) | Verdict |
|------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|--------------------|-----------|---------|-----------|---------|
| <b>LTE BAND5</b> |              |           |                       |                                 |                    |                    |           |         |           |         |
|                  |              |           | RB25#25               | 22.27                           | -5.29              | -7.44              | 14.83     | 0.030   | 7.000     | Pass    |
|                  |              |           | RB50#0                | 22.39                           | -5.29              | -7.44              | 14.95     | 0.031   | 7.000     | Pass    |
|                  |              | 16-QAM    | RB1#0                 | 22.41                           | -5.29              | -7.44              | 14.97     | 0.031   | 7.000     | Pass    |
|                  |              |           | RB1#25                | 22.53                           | -5.29              | -7.44              | 15.09     | 0.032   | 7.000     | Pass    |
|                  |              |           | RB1#49                | 22.28                           | -5.29              | -7.44              | 14.84     | 0.030   | 7.000     | Pass    |
|                  |              |           | RB25#0                | 21.55                           | -5.29              | -7.44              | 14.11     | 0.026   | 7.000     | Pass    |
|                  |              |           | RB25#13               | 21.58                           | -5.29              | -7.44              | 14.14     | 0.026   | 7.000     | Pass    |
|                  |              |           | RB25#25               | 21.44                           | -5.29              | -7.44              | 14.00     | 0.025   | 7.000     | Pass    |
|                  |              |           | RB50#0                | 21.5                            | -5.29              | -7.44              | 14.06     | 0.025   | 7.000     | Pass    |

| Test BW          | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND7</b> |              |           |                       |                                 |                    |            |          |           |         |
| 5 MHz            | LCH          | QPSK      | RB1#0                 | 22.08                           | -0.55              | 21.53      | 0.142    | 2.000     | Pass    |
|                  |              |           | RB1#13                | 22.24                           | -0.55              | 21.69      | 0.148    | 2.000     | Pass    |
|                  |              |           | RB1#24                | 22.06                           | -0.55              | 21.51      | 0.142    | 2.000     | Pass    |
|                  |              |           | RB12#0                | 21.1                            | -0.55              | 20.55      | 0.114    | 2.000     | Pass    |
|                  |              |           | RB12#6                | 21.22                           | -0.55              | 20.67      | 0.117    | 2.000     | Pass    |
|                  |              |           | RB12#13               | 21.2                            | -0.55              | 20.65      | 0.116    | 2.000     | Pass    |
|                  |              |           | RB25#0                | 21.18                           | -0.55              | 20.63      | 0.116    | 2.000     | Pass    |
|                  |              | 16-QAM    | RB1#0                 | 21.22                           | -0.55              | 20.67      | 0.117    | 2.000     | Pass    |
|                  |              |           | RB1#13                | 21.37                           | -0.55              | 20.82      | 0.121    | 2.000     | Pass    |
|                  |              |           | RB1#24                | 21.19                           | -0.55              | 20.64      | 0.116    | 2.000     | Pass    |
|                  |              |           | RB12#0                | 20.16                           | -0.55              | 19.61      | 0.091    | 2.000     | Pass    |
|                  |              |           | RB12#6                | 20.25                           | -0.55              | 19.70      | 0.093    | 2.000     | Pass    |
|                  |              |           | RB12#13               | 20.22                           | -0.55              | 19.67      | 0.093    | 2.000     | Pass    |
|                  |              |           | RB25#0                | 20.11                           | -0.55              | 19.56      | 0.090    | 2.000     | Pass    |
|                  | MCH          | QPSK      | RB1#0                 | 22.22                           | -0.55              | 21.67      | 0.147    | 2.000     | Pass    |
|                  |              |           | RB1#13                | 22.3                            | -0.55              | 21.75      | 0.150    | 2.000     | Pass    |
|                  |              |           | RB1#24                | 22.17                           | -0.55              | 21.62      | 0.145    | 2.000     | Pass    |
|                  |              |           | RB12#0                | 21.29                           | -0.55              | 20.74      | 0.119    | 2.000     | Pass    |
|                  |              |           | RB12#6                | 21.33                           | -0.55              | 20.78      | 0.120    | 2.000     | Pass    |
|                  |              |           | RB12#13               | 21.34                           | -0.55              | 20.79      | 0.120    | 2.000     | Pass    |
|                  |              |           | RB25#0                | 21.34                           | -0.55              | 20.79      | 0.120    | 2.000     | Pass    |
|                  |              | 16-QAM    | RB1#0                 | 21.38                           | -0.55              | 20.83      | 0.121    | 2.000     | Pass    |
|                  |              |           | RB1#13                | 21.51                           | -0.55              | 20.96      | 0.125    | 2.000     | Pass    |
|                  |              |           | RB1#24                | 21.35                           | -0.55              | 20.80      | 0.120    | 2.000     | Pass    |
|                  |              |           | RB12#0                | 20.38                           | -0.55              | 19.83      | 0.096    | 2.000     | Pass    |
|                  |              |           | RB12#6                | 20.41                           | -0.55              | 19.86      | 0.097    | 2.000     | Pass    |
|                  |              |           | RB12#13               | 20.35                           | -0.55              | 19.80      | 0.095    | 2.000     | Pass    |
|                  |              |           | RB25#0                | 20.34                           | -0.55              | 19.79      | 0.095    | 2.000     | Pass    |
|                  | HCH          | QPSK      | RB1#0                 | 22.1                            | -0.55              | 21.55      | 0.143    | 2.000     | Pass    |
|                  |              |           | RB1#13                | 22.23                           | -0.55              | 21.68      | 0.147    | 2.000     | Pass    |
|                  |              |           | RB1#24                | 22.04                           | -0.55              | 21.49      | 0.141    | 2.000     | Pass    |
|                  |              |           | RB12#0                | 21.27                           | -0.55              | 20.72      | 0.118    | 2.000     | Pass    |
|                  |              |           | RB12#6                | 21.32                           | -0.55              | 20.77      | 0.119    | 2.000     | Pass    |
|                  |              |           | RB12#13               | 21.24                           | -0.55              | 20.69      | 0.117    | 2.000     | Pass    |
|                  |              |           | RB25#0                | 21.25                           | -0.55              | 20.70      | 0.117    | 2.000     | Pass    |
|                  |              | 16-QAM    | RB1#0                 | 21.61                           | -0.55              | 21.06      | 0.128    | 2.000     | Pass    |
|                  |              |           | RB1#13                | 21.78                           | -0.55              | 21.23      | 0.133    | 2.000     | Pass    |
|                  |              |           | RB12#6                | 20.49                           | -0.55              | 19.94      | 0.099    | 2.000     | Pass    |

| Test BW          | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |      |
|------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|------|
| <b>LTE BAND7</b> |              |           |                       |                                 |                    |            |          |           |         |      |
| 10 MHz           |              |           | RB12#13               | 20.39                           | -0.55              | 19.84      | 0.096    | 2.000     | Pass    |      |
|                  |              |           | RB25#0                | 20.36                           | -0.55              | 19.81      | 0.096    | 2.000     | Pass    |      |
|                  | LCH          | QPSK      | RB1#0                 | 22.16                           | -0.55              | 21.61      | 0.145    | 2.000     | Pass    |      |
|                  |              |           | RB1#25                | 22.32                           | -0.55              | 21.77      | 0.150    | 2.000     | Pass    |      |
|                  |              |           | RB1#49                | 22.22                           | -0.55              | 21.67      | 0.147    | 2.000     | Pass    |      |
|                  |              |           | RB25#0                | 21.22                           | -0.55              | 20.67      | 0.117    | 2.000     | Pass    |      |
|                  |              |           | RB25#13               | 21.26                           | -0.55              | 20.71      | 0.118    | 2.000     | Pass    |      |
|                  |              |           | RB25#25               | 21.31                           | -0.55              | 20.76      | 0.119    | 2.000     | Pass    |      |
|                  |              |           | RB50#0                | 21.26                           | -0.55              | 20.71      | 0.118    | 2.000     | Pass    |      |
|                  |              | 16-QAM    | RB1#0                 | 21.11                           | -0.55              | 20.56      | 0.114    | 2.000     | Pass    |      |
|                  |              |           | RB1#25                | 21.34                           | -0.55              | 20.79      | 0.120    | 2.000     | Pass    |      |
|                  |              |           | RB1#49                | 21.15                           | -0.55              | 20.60      | 0.115    | 2.000     | Pass    |      |
|                  |              |           | RB25#0                | 20.17                           | -0.55              | 19.62      | 0.092    | 2.000     | Pass    |      |
|                  |              |           | RB25#13               | 20.26                           | -0.55              | 19.71      | 0.094    | 2.000     | Pass    |      |
|                  |              |           | RB25#25               | 20.29                           | -0.55              | 19.74      | 0.094    | 2.000     | Pass    |      |
|                  |              |           | RB50#0                | 20.21                           | -0.55              | 19.66      | 0.092    | 2.000     | Pass    |      |
|                  |              | MCH       | QPSK                  | RB1#0                           | 22.32              | -0.55      | 21.77    | 0.150     | 2.000   | Pass |
|                  |              |           |                       | RB1#25                          | 22.42              | -0.55      | 21.87    | 0.154     | 2.000   | Pass |
|                  |              |           |                       | RB1#49                          | 22.24              | -0.55      | 21.69    | 0.148     | 2.000   | Pass |
|                  |              |           |                       | RB25#0                          | 21.4               | -0.55      | 20.85    | 0.122     | 2.000   | Pass |
|                  | RB25#13      |           |                       | 21.33                           | -0.55              | 20.78      | 0.120    | 2.000     | Pass    |      |
|                  | RB25#25      |           |                       | 21.35                           | -0.55              | 20.80      | 0.120    | 2.000     | Pass    |      |
|                  | 16-QAM       |           | RB50#0                | 21.32                           | -0.55              | 20.77      | 0.119    | 2.000     | Pass    |      |
|                  |              |           | RB1#0                 | 21.65                           | -0.55              | 21.10      | 0.129    | 2.000     | Pass    |      |
|                  |              |           | RB1#25                | 21.74                           | -0.55              | 21.19      | 0.132    | 2.000     | Pass    |      |
|                  |              |           | RB1#49                | 21.65                           | -0.55              | 21.10      | 0.129    | 2.000     | Pass    |      |
|                  |              |           | RB25#0                | 20.41                           | -0.55              | 19.86      | 0.097    | 2.000     | Pass    |      |
|                  |              |           | RB25#13               | 20.38                           | -0.55              | 19.83      | 0.096    | 2.000     | Pass    |      |
|                  | HCH          | QPSK      | RB25#25               | 20.36                           | -0.55              | 19.81      | 0.096    | 2.000     | Pass    |      |
|                  |              |           | RB50#0                | 20.35                           | -0.55              | 19.80      | 0.095    | 2.000     | Pass    |      |
|                  |              |           | RB1#0                 | 22.28                           | -0.55              | 21.73      | 0.149    | 2.000     | Pass    |      |
|                  |              |           | RB1#25                | 22.31                           | -0.55              | 21.76      | 0.150    | 2.000     | Pass    |      |
|                  |              |           | RB1#49                | 22.15                           | -0.55              | 21.60      | 0.145    | 2.000     | Pass    |      |
| RB25#0           |              |           | 21.29                 | -0.55                           | 20.74              | 0.119      | 2.000    | Pass      |         |      |
| 16-QAM           |              | RB25#13   | 21.26                 | -0.55                           | 20.71              | 0.118      | 2.000    | Pass      |         |      |
|                  |              | RB25#25   | 21.23                 | -0.55                           | 20.68              | 0.117      | 2.000    | Pass      |         |      |
|                  |              | RB50#0    | 21.28                 | -0.55                           | 20.73              | 0.118      | 2.000    | Pass      |         |      |
|                  |              |           | RB1#0                 | 21.25                           | -0.55              | 20.70      | 0.117    | 2.000     | Pass    |      |
|                  |              |           | RB1#25                | 21.37                           | -0.55              | 20.82      | 0.121    | 2.000     | Pass    |      |
|                  |              |           | RB1#49                | 21.2                            | -0.55              | 20.65      | 0.116    | 2.000     | Pass    |      |

| Test BW          | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |      |
|------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|------|
| <b>LTE BAND7</b> |              |           |                       |                                 |                    |            |          |           |         |      |
| 15 MHz           |              |           | RB25#0                | 20.38                           | -0.55              | 19.83      | 0.096    | 2.000     | Pass    |      |
|                  |              |           | RB25#13               | 20.4                            | -0.55              | 19.85      | 0.097    | 2.000     | Pass    |      |
|                  |              |           | RB25#25               | 20.34                           | -0.55              | 19.79      | 0.095    | 2.000     | Pass    |      |
|                  |              |           | RB50#0                | 20.32                           | -0.55              | 19.77      | 0.095    | 2.000     | Pass    |      |
|                  | LCH          | QPSK      | RB1#0                 | 22.16                           | -0.55              | 21.61      | 0.145    | 2.000     | Pass    |      |
|                  |              |           | RB1#38                | 22.26                           | -0.55              | 21.71      | 0.148    | 2.000     | Pass    |      |
|                  |              |           | RB1#74                | 22.1                            | -0.55              | 21.55      | 0.143    | 2.000     | Pass    |      |
|                  |              |           | RB36#0                | 21.22                           | -0.55              | 20.67      | 0.117    | 2.000     | Pass    |      |
|                  |              |           | RB36#19               | 21.32                           | -0.55              | 20.77      | 0.119    | 2.000     | Pass    |      |
|                  |              |           | RB36#39               | 21.31                           | -0.55              | 20.76      | 0.119    | 2.000     | Pass    |      |
|                  |              |           | RB75#0                | 21.3                            | -0.55              | 20.75      | 0.119    | 2.000     | Pass    |      |
|                  |              | 16-QAM    | RB1#0                 | 21.08                           | -0.55              | 20.53      | 0.113    | 2.000     | Pass    |      |
|                  |              |           | RB1#38                | 21.22                           | -0.55              | 20.67      | 0.117    | 2.000     | Pass    |      |
|                  |              |           | RB1#74                | 21.03                           | -0.55              | 20.48      | 0.112    | 2.000     | Pass    |      |
|                  |              |           | RB36#0                | 20.17                           | -0.55              | 19.62      | 0.092    | 2.000     | Pass    |      |
|                  |              |           | RB36#19               | 20.26                           | -0.55              | 19.71      | 0.094    | 2.000     | Pass    |      |
|                  |              |           | RB36#39               | 20.24                           | -0.55              | 19.69      | 0.093    | 2.000     | Pass    |      |
|                  |              |           | RB75#0                | 20.25                           | -0.55              | 19.70      | 0.093    | 2.000     | Pass    |      |
|                  |              | MCH       | QPSK                  | RB1#0                           | 22.28              | -0.55      | 21.73    | 0.149     | 2.000   | Pass |
|                  |              |           |                       | RB1#38                          | 22.34              | -0.55      | 21.79    | 0.151     | 2.000   | Pass |
|                  | RB1#74       |           |                       | 22.12                           | -0.55              | 21.57      | 0.144    | 2.000     | Pass    |      |
|                  | RB36#0       |           |                       | 21.35                           | -0.55              | 20.80      | 0.120    | 2.000     | Pass    |      |
|                  | RB36#19      |           |                       | 21.37                           | -0.55              | 20.82      | 0.121    | 2.000     | Pass    |      |
|                  | RB36#39      |           |                       | 21.32                           | -0.55              | 20.77      | 0.119    | 2.000     | Pass    |      |
|                  | RB75#0       |           |                       | 21.39                           | -0.55              | 20.84      | 0.121    | 2.000     | Pass    |      |
|                  | 16-QAM       |           | RB1#0                 | 21.63                           | -0.55              | 21.08      | 0.128    | 2.000     | Pass    |      |
|                  |              |           | RB1#38                | 21.7                            | -0.55              | 21.15      | 0.130    | 2.000     | Pass    |      |
|                  |              |           | RB1#74                | 21.48                           | -0.55              | 20.93      | 0.124    | 2.000     | Pass    |      |
|                  |              |           | RB36#0                | 20.4                            | -0.55              | 19.85      | 0.097    | 2.000     | Pass    |      |
|                  |              |           | RB36#19               | 20.37                           | -0.55              | 19.82      | 0.096    | 2.000     | Pass    |      |
|                  |              |           | RB36#39               | 20.33                           | -0.55              | 19.78      | 0.095    | 2.000     | Pass    |      |
|                  |              |           | RB75#0                | 20.37                           | -0.55              | 19.82      | 0.096    | 2.000     | Pass    |      |
| HCH              | QPSK         | RB1#0     | 22.21                 | -0.55                           | 21.66              | 0.147      | 2.000    | Pass      |         |      |
|                  |              | RB1#38    | 22.24                 | -0.55                           | 21.69              | 0.148      | 2.000    | Pass      |         |      |
|                  |              | RB1#74    | 22.01                 | -0.55                           | 21.46              | 0.140      | 2.000    | Pass      |         |      |
|                  |              | RB36#0    | 21.29                 | -0.55                           | 20.74              | 0.119      | 2.000    | Pass      |         |      |
|                  |              | RB36#19   | 21.3                  | -0.55                           | 20.75              | 0.119      | 2.000    | Pass      |         |      |
|                  |              | RB36#39   | 21.26                 | -0.55                           | 20.71              | 0.118      | 2.000    | Pass      |         |      |
|                  |              | RB75#0    | 21.27                 | -0.55                           | 20.72              | 0.118      | 2.000    | Pass      |         |      |
|                  | 16-QAM       | RB1#0     | 21.59                 | -0.55                           | 21.04              | 0.127      | 2.000    | Pass      |         |      |

| Test BW          | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND7</b> |              |           |                       |                                 |                    |            |          |           |         |
| 20 MHz           |              |           | RB1#38                | 21.62                           | -0.55              | 21.07      | 0.128    | 2.000     | Pass    |
|                  |              |           | RB1#74                | 21.51                           | -0.55              | 20.96      | 0.125    | 2.000     | Pass    |
|                  |              |           | RB36#0                | 20.26                           | -0.55              | 19.71      | 0.094    | 2.000     | Pass    |
|                  |              |           | RB36#19               | 20.26                           | -0.55              | 19.71      | 0.094    | 2.000     | Pass    |
|                  |              |           | RB36#39               | 20.19                           | -0.55              | 19.64      | 0.092    | 2.000     | Pass    |
|                  |              |           | RB75#0                | 20.27                           | -0.55              | 19.72      | 0.094    | 2.000     | Pass    |
|                  | LCH          | QPSK      | RB1#0                 | 22.1                            | -0.55              | 21.55      | 0.143    | 2.000     | Pass    |
|                  |              |           | RB1#50                | 22.38                           | -0.55              | 21.83      | 0.152    | 2.000     | Pass    |
|                  |              |           | RB1#99                | 22.06                           | -0.55              | 21.51      | 0.142    | 2.000     | Pass    |
|                  |              |           | RB50#0                | 21.16                           | -0.55              | 20.61      | 0.115    | 2.000     | Pass    |
|                  |              |           | RB50#25               | 21.24                           | -0.55              | 20.69      | 0.117    | 2.000     | Pass    |
|                  |              |           | RB50#50               | 21.2                            | -0.55              | 20.65      | 0.116    | 2.000     | Pass    |
|                  |              | 16-QAM    | RB100#0               | 21.17                           | -0.55              | 20.62      | 0.115    | 2.000     | Pass    |
|                  |              |           | RB1#0                 | 21.58                           | -0.55              | 21.03      | 0.127    | 2.000     | Pass    |
|                  |              |           | RB1#50                | 21.9                            | -0.55              | 21.35      | 0.136    | 2.000     | Pass    |
|                  |              |           | RB1#99                | 21.55                           | -0.55              | 21.00      | 0.126    | 2.000     | Pass    |
|                  |              |           | RB50#0                | 20.18                           | -0.55              | 19.63      | 0.092    | 2.000     | Pass    |
|                  |              |           | RB50#25               | 20.26                           | -0.55              | 19.71      | 0.094    | 2.000     | Pass    |
|                  | MCH          | QPSK      | RB50#50               | 20.17                           | -0.55              | 19.62      | 0.092    | 2.000     | Pass    |
|                  |              |           | RB100#0               | 20.19                           | -0.55              | 19.64      | 0.092    | 2.000     | Pass    |
|                  |              |           | RB1#0                 | 22.21                           | -0.55              | 21.66      | 0.147    | 2.000     | Pass    |
| RB1#50           |              |           | 22.51                 | -0.55                           | 21.96              | 0.157      | 2.000    | Pass      |         |
| RB1#99           |              |           | 22.15                 | -0.55                           | 21.60              | 0.145      | 2.000    | Pass      |         |
| RB50#0           |              |           | 21.32                 | -0.55                           | 20.77              | 0.119      | 2.000    | Pass      |         |
| 16-QAM           |              | RB50#25   | 21.34                 | -0.55                           | 20.79              | 0.120      | 2.000    | Pass      |         |
|                  |              | RB50#50   | 21.26                 | -0.55                           | 20.71              | 0.118      | 2.000    | Pass      |         |
|                  |              | RB100#0   | 21.31                 | -0.55                           | 20.76              | 0.119      | 2.000    | Pass      |         |
|                  |              | RB1#0     | 21.63                 | -0.55                           | 21.08              | 0.128      | 2.000    | Pass      |         |
|                  |              | RB1#50    | 21.88                 | -0.55                           | 21.33              | 0.136      | 2.000    | Pass      |         |
|                  |              | RB1#99    | 21.47                 | -0.55                           | 20.92              | 0.124      | 2.000    | Pass      |         |
| HCH              | QPSK         | RB50#0    | 20.37                 | -0.55                           | 19.82              | 0.096      | 2.000    | Pass      |         |
|                  |              | RB50#25   | 20.34                 | -0.55                           | 19.79              | 0.095      | 2.000    | Pass      |         |
|                  |              | RB50#50   | 20.24                 | -0.55                           | 19.69              | 0.093      | 2.000    | Pass      |         |
|                  |              | RB100#0   | 20.26                 | -0.55                           | 19.71              | 0.094      | 2.000    | Pass      |         |
|                  |              | RB1#0     | 22.1                  | -0.55                           | 21.55              | 0.143      | 2.000    | Pass      |         |
|                  |              | RB1#50    | 22.35                 | -0.55                           | 21.80              | 0.151      | 2.000    | Pass      |         |
|                  |              |           | RB1#99                | 21.9                            | -0.55              | 21.35      | 0.136    | 2.000     | Pass    |
|                  |              |           | RB50#0                | 21.27                           | -0.55              | 20.72      | 0.118    | 2.000     | Pass    |
|                  |              |           | RB50#25               | 21.27                           | -0.55              | 20.72      | 0.118    | 2.000     | Pass    |
|                  |              |           | RB50#50               | 21.12                           | -0.55              | 20.57      | 0.114    | 2.000     | Pass    |

| Test BW          | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND7</b> |              |           |                       |                                 |                    |            |          |           |         |
|                  |              |           | RB100#0               | 21.21                           | -0.55              | 20.66      | 0.116    | 2.000     | Pass    |
|                  |              | 16-QAM    | RB1#0                 | 21.57                           | -0.55              | 21.02      | 0.126    | 2.000     | Pass    |
|                  |              |           | RB1#50                | 21.72                           | -0.55              | 21.17      | 0.131    | 2.000     | Pass    |
|                  |              |           | RB1#99                | 21.44                           | -0.55              | 20.89      | 0.123    | 2.000     | Pass    |
|                  |              |           | RB50#0                | 20.23                           | -0.55              | 19.68      | 0.093    | 2.000     | Pass    |
|                  |              |           | RB50#25               | 20.2                            | -0.55              | 19.65      | 0.092    | 2.000     | Pass    |
|                  |              |           | RB50#50               | 20.1                            | -0.55              | 19.55      | 0.090    | 2.000     | Pass    |
|                  |              |           | RB100#0               | 20.2                            | -0.55              | 19.65      | 0.092    | 2.000     | Pass    |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND38</b> |              |           |                       |                                 |                    |            |          |           |         |
| 5 MHz             | LCH          | QPSK      | RB1#0                 | 22.94                           | -0.55              | 22.39      | 0.173    | 2.000     | Pass    |
|                   |              |           | RB1#13                | 23.05                           | -0.55              | 22.50      | 0.178    | 2.000     | Pass    |
|                   |              |           | RB1#24                | 22.86                           | -0.55              | 22.31      | 0.170    | 2.000     | Pass    |
|                   |              |           | RB12#0                | 22.02                           | -0.55              | 21.47      | 0.140    | 2.000     | Pass    |
|                   |              |           | RB12#6                | 22.09                           | -0.55              | 21.54      | 0.143    | 2.000     | Pass    |
|                   |              |           | RB12#13               | 21.99                           | -0.55              | 21.44      | 0.139    | 2.000     | Pass    |
|                   |              |           | RB25#0                | 22.03                           | -0.55              | 21.48      | 0.141    | 2.000     | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 22.34                           | -0.55              | 21.79      | 0.151    | 2.000     | Pass    |
|                   |              |           | RB1#13                | 22.47                           | -0.55              | 21.92      | 0.156    | 2.000     | Pass    |
|                   |              |           | RB1#24                | 22.27                           | -0.55              | 21.72      | 0.149    | 2.000     | Pass    |
|                   |              |           | RB12#0                | 21.11                           | -0.55              | 20.56      | 0.114    | 2.000     | Pass    |
|                   |              |           | RB12#6                | 21.14                           | -0.55              | 20.59      | 0.115    | 2.000     | Pass    |
|                   |              |           | RB12#13               | 21.08                           | -0.55              | 20.53      | 0.113    | 2.000     | Pass    |
|                   |              |           | RB25#0                | 21.03                           | -0.55              | 20.48      | 0.112    | 2.000     | Pass    |
|                   | MCH          | QPSK      | RB1#0                 | 22.85                           | -0.55              | 22.30      | 0.170    | 2.000     | Pass    |
|                   |              |           | RB1#13                | 22.99                           | -0.55              | 22.44      | 0.175    | 2.000     | Pass    |
|                   |              |           | RB1#24                | 22.84                           | -0.55              | 22.29      | 0.169    | 2.000     | Pass    |
|                   |              |           | RB12#0                | 21.99                           | -0.55              | 21.44      | 0.139    | 2.000     | Pass    |
|                   |              |           | RB12#6                | 22.06                           | -0.55              | 21.51      | 0.142    | 2.000     | Pass    |
|                   |              |           | RB12#13               | 22                              | -0.55              | 21.45      | 0.140    | 2.000     | Pass    |
|                   |              |           | RB25#0                | 22                              | -0.55              | 21.45      | 0.140    | 2.000     | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 22.14                           | -0.55              | 21.59      | 0.144    | 2.000     | Pass    |
|                   |              |           | RB1#13                | 22.29                           | -0.55              | 21.74      | 0.149    | 2.000     | Pass    |
|                   |              |           | RB1#24                | 22.14                           | -0.55              | 21.59      | 0.144    | 2.000     | Pass    |
|                   |              |           | RB12#0                | 21.02                           | -0.55              | 20.47      | 0.111    | 2.000     | Pass    |
|                   |              |           | RB12#6                | 21.08                           | -0.55              | 20.53      | 0.113    | 2.000     | Pass    |
|                   |              |           | RB12#13               | 21.02                           | -0.55              | 20.47      | 0.111    | 2.000     | Pass    |
|                   |              |           | RB25#0                | 21.01                           | -0.55              | 20.46      | 0.111    | 2.000     | Pass    |
|                   | HCH          | QPSK      | RB1#0                 | 22.87                           | -0.55              | 22.32      | 0.171    | 2.000     | Pass    |
|                   |              |           | RB1#13                | 23                              | -0.55              | 22.45      | 0.176    | 2.000     | Pass    |
|                   |              |           | RB1#24                | 22.84                           | -0.55              | 22.29      | 0.169    | 2.000     | Pass    |
|                   |              |           | RB12#0                | 22.02                           | -0.55              | 21.47      | 0.140    | 2.000     | Pass    |
|                   |              |           | RB12#6                | 22.1                            | -0.55              | 21.55      | 0.143    | 2.000     | Pass    |
|                   |              |           | RB12#13               | 22.03                           | -0.55              | 21.48      | 0.141    | 2.000     | Pass    |
|                   |              |           | RB25#0                | 22.01                           | -0.55              | 21.46      | 0.140    | 2.000     | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 22.26                           | -0.55              | 21.71      | 0.148    | 2.000     | Pass    |
| RB1#13            |              |           | 22.4                  | -0.55                           | 21.85              | 0.153      | 2.000    | Pass      |         |
| RB12#6            |              |           | 21.09                 | -0.55                           | 20.54              | 0.113      | 2.000    | Pass      |         |



| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |      |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|------|
| <b>LTE BAND38</b> |              |           |                       |                                 |                    |            |          |           |         |      |
| 10 MHz            |              |           | RB12#13               | 21                              | -0.55              | 20.45      | 0.111    | 2.000     | Pass    |      |
|                   |              |           | RB25#0                | 21.08                           | -0.55              | 20.53      | 0.113    | 2.000     | Pass    |      |
|                   | LCH          | QPSK      | RB1#0                 | 23.05                           | -0.55              | 22.50      | 0.178    | 2.000     | Pass    |      |
|                   |              |           | RB1#25                | 23.22                           | -0.55              | 22.67      | 0.185    | 2.000     | Pass    |      |
|                   |              |           | RB1#49                | 22.92                           | -0.55              | 22.37      | 0.173    | 2.000     | Pass    |      |
|                   |              |           | RB25#0                | 22.11                           | -0.55              | 21.56      | 0.143    | 2.000     | Pass    |      |
|                   |              |           | RB25#13               | 22.05                           | -0.55              | 21.50      | 0.141    | 2.000     | Pass    |      |
|                   |              |           | RB25#25               | 22.04                           | -0.55              | 21.49      | 0.141    | 2.000     | Pass    |      |
|                   |              |           | RB50#0                | 22.04                           | -0.55              | 21.49      | 0.141    | 2.000     | Pass    |      |
|                   |              |           | 16-QAM                | RB1#0                           | 22.35              | -0.55      | 21.80    | 0.151     | 2.000   | Pass |
|                   |              | RB1#25    |                       | 22.52                           | -0.55              | 21.97      | 0.157    | 2.000     | Pass    |      |
|                   |              | RB1#49    |                       | 22.26                           | -0.55              | 21.71      | 0.148    | 2.000     | Pass    |      |
|                   |              | RB25#0    |                       | 21.08                           | -0.55              | 20.53      | 0.113    | 2.000     | Pass    |      |
|                   |              | RB25#13   |                       | 21.06                           | -0.55              | 20.51      | 0.112    | 2.000     | Pass    |      |
|                   |              | RB25#25   |                       | 21.04                           | -0.55              | 20.49      | 0.112    | 2.000     | Pass    |      |
|                   |              | MCH       | QPSK                  | RB1#0                           | 23                 | -0.55      | 22.45    | 0.176     | 2.000   | Pass |
|                   |              |           |                       | RB1#25                          | 23.22              | -0.55      | 22.67    | 0.185     | 2.000   | Pass |
|                   |              |           |                       | RB1#49                          | 22.94              | -0.55      | 22.39    | 0.173     | 2.000   | Pass |
|                   |              |           |                       | RB25#0                          | 22.07              | -0.55      | 21.52    | 0.142     | 2.000   | Pass |
|                   |              |           |                       | RB25#13                         | 22.04              | -0.55      | 21.49    | 0.141     | 2.000   | Pass |
|                   | RB25#25      |           |                       | 22.04                           | -0.55              | 21.49      | 0.141    | 2.000     | Pass    |      |
|                   | 16-QAM       |           | RB50#0                | 22.04                           | -0.55              | 21.49      | 0.141    | 2.000     | Pass    |      |
|                   |              |           | RB1#0                 | 22.47                           | -0.55              | 21.92      | 0.156    | 2.000     | Pass    |      |
|                   |              |           | RB1#25                | 22.71                           | -0.55              | 22.16      | 0.164    | 2.000     | Pass    |      |
|                   |              |           | RB1#49                | 22.42                           | -0.55              | 21.87      | 0.154    | 2.000     | Pass    |      |
|                   |              |           | RB25#0                | 21.06                           | -0.55              | 20.51      | 0.112    | 2.000     | Pass    |      |
|                   |              |           | RB25#13               | 21.06                           | -0.55              | 20.51      | 0.112    | 2.000     | Pass    |      |
|                   | HCH          | QPSK      | RB25#25               | 21.04                           | -0.55              | 20.49      | 0.112    | 2.000     | Pass    |      |
|                   |              |           | RB50#0                | 22.05                           | -0.55              | 21.50      | 0.141    | 2.000     | Pass    |      |
|                   |              |           | RB1#0                 | 23.02                           | -0.55              | 22.47      | 0.177    | 2.000     | Pass    |      |
|                   |              |           | RB1#25                | 23.28                           | -0.55              | 22.73      | 0.187    | 2.000     | Pass    |      |
|                   |              |           | RB1#49                | 22.92                           | -0.55              | 22.37      | 0.173    | 2.000     | Pass    |      |
|                   |              |           | RB25#0                | 22.12                           | -0.55              | 21.57      | 0.144    | 2.000     | Pass    |      |
| 16-QAM            |              | RB25#13   | 22.08                 | -0.55                           | 21.53              | 0.142      | 2.000    | Pass      |         |      |
|                   |              | RB25#25   | 22.05                 | -0.55                           | 21.50              | 0.141      | 2.000    | Pass      |         |      |
|                   |              | RB50#0    | 22.05                 | -0.55                           | 21.50              | 0.141      | 2.000    | Pass      |         |      |
|                   |              |           | RB1#0                 | 22.53                           | -0.55              | 21.98      | 0.158    | 2.000     | Pass    |      |
|                   |              |           | RB1#25                | 22.73                           | -0.55              | 22.18      | 0.165    | 2.000     | Pass    |      |
|                   |              |           | RB1#49                | 22.42                           | -0.55              | 21.87      | 0.154    | 2.000     | Pass    |      |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |      |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|------|
| <b>LTE BAND38</b> |              |           |                       |                                 |                    |            |          |           |         |      |
| 15 MHz            |              |           | RB25#0                | 21.16                           | -0.55              | 20.61      | 0.115    | 2.000     | Pass    |      |
|                   |              |           | RB25#13               | 21.13                           | -0.55              | 20.58      | 0.114    | 2.000     | Pass    |      |
|                   |              |           | RB25#25               | 21.11                           | -0.55              | 20.56      | 0.114    | 2.000     | Pass    |      |
|                   |              |           | RB50#0                | 21.11                           | -0.55              | 20.56      | 0.114    | 2.000     | Pass    |      |
|                   | LCH          | QPSK      | RB1#0                 | 22.96                           | -0.55              | 22.41      | 0.174    | 2.000     | Pass    |      |
|                   |              |           | RB1#38                | 22.95                           | -0.55              | 22.40      | 0.174    | 2.000     | Pass    |      |
|                   |              |           | RB1#74                | 22.81                           | -0.55              | 22.26      | 0.168    | 2.000     | Pass    |      |
|                   |              |           | RB36#0                | 22                              | -0.55              | 21.45      | 0.140    | 2.000     | Pass    |      |
|                   |              |           | RB36#19               | 21.95                           | -0.55              | 21.40      | 0.138    | 2.000     | Pass    |      |
|                   |              |           | RB36#39               | 21.91                           | -0.55              | 21.36      | 0.137    | 2.000     | Pass    |      |
|                   |              |           | RB75#0                | 21.96                           | -0.55              | 21.41      | 0.138    | 2.000     | Pass    |      |
|                   |              | 16-QAM    | RB1#0                 | 22.29                           | -0.55              | 21.74      | 0.149    | 2.000     | Pass    |      |
|                   |              |           | RB1#38                | 22.27                           | -0.55              | 21.72      | 0.149    | 2.000     | Pass    |      |
|                   |              |           | RB1#74                | 22.1                            | -0.55              | 21.55      | 0.143    | 2.000     | Pass    |      |
|                   |              |           | RB36#0                | 20.97                           | -0.55              | 20.42      | 0.110    | 2.000     | Pass    |      |
|                   |              |           | RB36#19               | 20.93                           | -0.55              | 20.38      | 0.109    | 2.000     | Pass    |      |
|                   |              |           | RB36#39               | 20.9                            | -0.55              | 20.35      | 0.108    | 2.000     | Pass    |      |
|                   |              |           | RB75#0                | 20.96                           | -0.55              | 20.41      | 0.110    | 2.000     | Pass    |      |
|                   |              | MCH       | QPSK                  | RB1#0                           | 22.93              | -0.55      | 22.38    | 0.173     | 2.000   | Pass |
|                   |              |           |                       | RB1#38                          | 22.95              | -0.55      | 22.40    | 0.174     | 2.000   | Pass |
|                   | RB1#74       |           |                       | 22.79                           | -0.55              | 22.24      | 0.167    | 2.000     | Pass    |      |
|                   | RB36#0       |           |                       | 21.94                           | -0.55              | 21.39      | 0.138    | 2.000     | Pass    |      |
|                   | RB36#19      |           |                       | 21.97                           | -0.55              | 21.42      | 0.139    | 2.000     | Pass    |      |
|                   | RB36#39      |           |                       | 21.87                           | -0.55              | 21.32      | 0.136    | 2.000     | Pass    |      |
|                   | RB75#0       |           |                       | 21.94                           | -0.55              | 21.39      | 0.138    | 2.000     | Pass    |      |
|                   | 16-QAM       |           | RB1#0                 | 22.45                           | -0.55              | 21.90      | 0.155    | 2.000     | Pass    |      |
|                   |              |           | RB1#38                | 22.47                           | -0.55              | 21.92      | 0.156    | 2.000     | Pass    |      |
|                   |              |           | RB1#74                | 22.34                           | -0.55              | 21.79      | 0.151    | 2.000     | Pass    |      |
|                   |              |           | RB36#0                | 20.92                           | -0.55              | 20.37      | 0.109    | 2.000     | Pass    |      |
|                   |              |           | RB36#19               | 20.92                           | -0.55              | 20.37      | 0.109    | 2.000     | Pass    |      |
|                   |              |           | RB36#39               | 20.88                           | -0.55              | 20.33      | 0.108    | 2.000     | Pass    |      |
|                   |              |           | RB75#0                | 20.93                           | -0.55              | 20.38      | 0.109    | 2.000     | Pass    |      |
| HCH               | QPSK         | RB1#0     | 22.93                 | -0.55                           | 22.38              | 0.173      | 2.000    | Pass      |         |      |
|                   |              | RB1#38    | 22.98                 | -0.55                           | 22.43              | 0.175      | 2.000    | Pass      |         |      |
|                   |              | RB1#74    | 22.8                  | -0.55                           | 22.25              | 0.168      | 2.000    | Pass      |         |      |
|                   |              | RB36#0    | 21.96                 | -0.55                           | 21.41              | 0.138      | 2.000    | Pass      |         |      |
|                   |              | RB36#19   | 21.96                 | -0.55                           | 21.41              | 0.138      | 2.000    | Pass      |         |      |
|                   |              | RB36#39   | 21.92                 | -0.55                           | 21.37              | 0.137      | 2.000    | Pass      |         |      |
|                   |              | RB75#0    | 21.97                 | -0.55                           | 21.42              | 0.139      | 2.000    | Pass      |         |      |
|                   | 16-QAM       | RB1#0     | 22.33                 | -0.55                           | 21.78              | 0.151      | 2.000    | Pass      |         |      |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND38</b> |              |           |                       |                                 |                    |            |          |           |         |
| 20 MHz            |              |           | RB1#38                | 22.42                           | -0.55              | 21.87      | 0.154    | 2.000     | Pass    |
|                   |              |           | RB1#74                | 22.24                           | -0.55              | 21.69      | 0.148    | 2.000     | Pass    |
|                   |              |           | RB36#0                | 21.02                           | -0.55              | 20.47      | 0.111    | 2.000     | Pass    |
|                   |              |           | RB36#19               | 21.04                           | -0.55              | 20.49      | 0.112    | 2.000     | Pass    |
|                   |              |           | RB36#39               | 20.97                           | -0.55              | 20.42      | 0.110    | 2.000     | Pass    |
|                   |              |           | RB75#0                | 21.01                           | -0.55              | 20.46      | 0.111    | 2.000     | Pass    |
|                   | LCH          | QPSK      | RB1#0                 | 22.87                           | -0.55              | 22.32      | 0.171    | 2.000     | Pass    |
|                   |              |           | RB1#50                | 23.2                            | -0.55              | 22.65      | 0.184    | 2.000     | Pass    |
|                   |              |           | RB1#99                | 22.73                           | -0.55              | 22.18      | 0.165    | 2.000     | Pass    |
|                   |              |           | RB50#0                | 22                              | -0.55              | 21.45      | 0.140    | 2.000     | Pass    |
|                   |              |           | RB50#25               | 22                              | -0.55              | 21.45      | 0.140    | 2.000     | Pass    |
|                   |              |           | RB50#50               | 21.91                           | -0.55              | 21.36      | 0.137    | 2.000     | Pass    |
|                   |              | 16-QAM    | RB100#0               | 21.97                           | -0.55              | 21.42      | 0.139    | 2.000     | Pass    |
|                   |              |           | RB1#0                 | 22.26                           | -0.55              | 21.71      | 0.148    | 2.000     | Pass    |
|                   |              |           | RB1#50                | 22.55                           | -0.55              | 22.00      | 0.158    | 2.000     | Pass    |
|                   |              |           | RB1#99                | 22.09                           | -0.55              | 21.54      | 0.143    | 2.000     | Pass    |
|                   |              |           | RB50#0                | 20.99                           | -0.55              | 20.44      | 0.111    | 2.000     | Pass    |
|                   |              |           | RB50#25               | 20.97                           | -0.55              | 20.42      | 0.110    | 2.000     | Pass    |
|                   | MCH          | QPSK      | RB50#50               | 20.88                           | -0.55              | 20.33      | 0.108    | 2.000     | Pass    |
|                   |              |           | RB100#0               | 20.94                           | -0.55              | 20.39      | 0.109    | 2.000     | Pass    |
|                   |              |           | RB1#0                 | 22.83                           | -0.55              | 22.28      | 0.169    | 2.000     | Pass    |
| RB1#50            |              |           | 23.1                  | -0.55                           | 22.55              | 0.180      | 2.000    | Pass      |         |
| RB1#99            |              |           | 22.73                 | -0.55                           | 22.18              | 0.165      | 2.000    | Pass      |         |
| RB50#0            |              |           | 21.96                 | -0.55                           | 21.41              | 0.138      | 2.000    | Pass      |         |
| 16-QAM            |              | RB50#25   | 21.99                 | -0.55                           | 21.44              | 0.139      | 2.000    | Pass      |         |
|                   |              | RB50#50   | 21.88                 | -0.55                           | 21.33              | 0.136      | 2.000    | Pass      |         |
|                   |              | RB100#0   | 21.94                 | -0.55                           | 21.39              | 0.138      | 2.000    | Pass      |         |
|                   |              | RB1#0     | 22.13                 | -0.55                           | 21.58              | 0.144      | 2.000    | Pass      |         |
|                   |              | RB1#50    | 22.43                 | -0.55                           | 21.88              | 0.154      | 2.000    | Pass      |         |
|                   |              | RB1#99    | 22.05                 | -0.55                           | 21.50              | 0.141      | 2.000    | Pass      |         |
| HCH               | QPSK         | RB50#0    | 20.98                 | -0.55                           | 20.43              | 0.110      | 2.000    | Pass      |         |
|                   |              | RB50#25   | 20.99                 | -0.55                           | 20.44              | 0.111      | 2.000    | Pass      |         |
|                   |              | RB50#50   | 20.89                 | -0.55                           | 20.34              | 0.108      | 2.000    | Pass      |         |
|                   |              | RB100#0   | 20.96                 | -0.55                           | 20.41              | 0.110      | 2.000    | Pass      |         |
|                   |              | RB1#0     | 22.94                 | -0.55                           | 22.39              | 0.173      | 2.000    | Pass      |         |
|                   |              | RB1#50    | 23.32                 | -0.55                           | 22.77              | 0.189      | 2.000    | Pass      |         |
|                   |              |           | RB1#99                | 22.84                           | -0.55              | 22.29      | 0.169    | 2.000     | Pass    |
|                   |              |           | RB50#0                | 22.01                           | -0.55              | 21.46      | 0.140    | 2.000     | Pass    |
|                   |              |           | RB50#25               | 22.05                           | -0.55              | 21.50      | 0.141    | 2.000     | Pass    |
|                   |              |           | RB50#50               | 21.94                           | -0.55              | 21.39      | 0.138    | 2.000     | Pass    |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND38</b> |              |           |                       |                                 |                    |            |          |           |         |
|                   |              |           | RB100#0               | 21.96                           | -0.55              | 21.41      | 0.138    | 2.000     | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 22.36                           | -0.55              | 21.81      | 0.152    | 2.000     | Pass    |
|                   |              |           | RB1#50                | 22.74                           | -0.55              | 22.19      | 0.166    | 2.000     | Pass    |
|                   |              |           | RB1#99                | 22.29                           | -0.55              | 21.74      | 0.149    | 2.000     | Pass    |
|                   |              |           | RB50#0                | 21.03                           | -0.55              | 20.48      | 0.112    | 2.000     | Pass    |
|                   |              |           | RB50#25               | 21.09                           | -0.55              | 20.54      | 0.113    | 2.000     | Pass    |
|                   |              |           | RB50#50               | 21.01                           | -0.55              | 20.46      | 0.111    | 2.000     | Pass    |
|                   |              |           | RB100#0               | 20.99                           | -0.55              | 20.44      | 0.111    | 2.000     | Pass    |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND41</b> |              |           |                       |                                 |                    |            |          |           |         |
| 5 MHz             | LCH          | QPSK      | RB1#0                 | 22.93                           | -0.55              | 22.38      | 0.173    | 2.000     | Pass    |
|                   |              |           | RB1#13                | 23.01                           | -0.55              | 22.46      | 0.176    | 2.000     | Pass    |
|                   |              |           | RB1#24                | 22.93                           | -0.55              | 22.38      | 0.173    | 2.000     | Pass    |
|                   |              |           | RB12#0                | 21.98                           | -0.55              | 21.43      | 0.139    | 2.000     | Pass    |
|                   |              |           | RB12#6                | 22.04                           | -0.55              | 21.49      | 0.141    | 2.000     | Pass    |
|                   |              |           | RB12#13               | 22                              | -0.55              | 21.45      | 0.140    | 2.000     | Pass    |
|                   |              |           | RB25#0                | 22.01                           | -0.55              | 21.46      | 0.140    | 2.000     | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 22.17                           | -0.55              | 21.62      | 0.145    | 2.000     | Pass    |
|                   |              |           | RB1#13                | 22.25                           | -0.55              | 21.70      | 0.148    | 2.000     | Pass    |
|                   |              |           | RB1#24                | 22.17                           | -0.55              | 21.62      | 0.145    | 2.000     | Pass    |
|                   |              |           | RB12#0                | 20.99                           | -0.55              | 20.44      | 0.111    | 2.000     | Pass    |
|                   |              |           | RB12#6                | 21.05                           | -0.55              | 20.50      | 0.112    | 2.000     | Pass    |
|                   |              |           | RB12#13               | 21                              | -0.55              | 20.45      | 0.111    | 2.000     | Pass    |
|                   |              |           | RB25#0                | 20.94                           | -0.55              | 20.39      | 0.109    | 2.000     | Pass    |
|                   | MCH          | QPSK      | RB1#0                 | 22.88                           | -0.55              | 22.33      | 0.171    | 2.000     | Pass    |
|                   |              |           | RB1#13                | 22.96                           | -0.55              | 22.41      | 0.174    | 2.000     | Pass    |
|                   |              |           | RB1#24                | 22.86                           | -0.55              | 22.31      | 0.170    | 2.000     | Pass    |
|                   |              |           | RB12#0                | 22                              | -0.55              | 21.45      | 0.140    | 2.000     | Pass    |
|                   |              |           | RB12#6                | 22.04                           | -0.55              | 21.49      | 0.141    | 2.000     | Pass    |
|                   |              |           | RB12#13               | 22                              | -0.55              | 21.45      | 0.140    | 2.000     | Pass    |
|                   |              |           | RB25#0                | 21.98                           | -0.55              | 21.43      | 0.139    | 2.000     | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 22.26                           | -0.55              | 21.71      | 0.148    | 2.000     | Pass    |
|                   |              |           | RB1#13                | 22.38                           | -0.55              | 21.83      | 0.152    | 2.000     | Pass    |
|                   |              |           | RB1#24                | 22.23                           | -0.55              | 21.68      | 0.147    | 2.000     | Pass    |
|                   |              |           | RB12#0                | 20.99                           | -0.55              | 20.44      | 0.111    | 2.000     | Pass    |
|                   |              |           | RB12#6                | 21.03                           | -0.55              | 20.48      | 0.112    | 2.000     | Pass    |
|                   |              |           | RB12#13               | 20.97                           | -0.55              | 20.42      | 0.110    | 2.000     | Pass    |
|                   |              |           | RB25#0                | 21                              | -0.55              | 20.45      | 0.111    | 2.000     | Pass    |
|                   | HCH          | QPSK      | RB1#0                 | 23.11                           | -0.55              | 22.56      | 0.180    | 2.000     | Pass    |
|                   |              |           | RB1#13                | 23.26                           | -0.55              | 22.71      | 0.187    | 2.000     | Pass    |
|                   |              |           | RB1#24                | 23.16                           | -0.55              | 22.61      | 0.182    | 2.000     | Pass    |
|                   |              |           | RB12#0                | 22.18                           | -0.55              | 21.63      | 0.146    | 2.000     | Pass    |
|                   |              |           | RB12#6                | 22.28                           | -0.55              | 21.73      | 0.149    | 2.000     | Pass    |
|                   |              |           | RB12#13               | 22.25                           | -0.55              | 21.70      | 0.148    | 2.000     | Pass    |
|                   |              |           | RB25#0                | 22.25                           | -0.55              | 21.70      | 0.148    | 2.000     | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 22.55                           | -0.55              | 22.00      | 0.158    | 2.000     | Pass    |
| RB1#13            |              |           | 22.68                 | -0.55                           | 22.13              | 0.163      | 2.000    | Pass      |         |
| RB1#24            |              |           | 22.58                 | -0.55                           | 22.03              | 0.160      | 2.000    | Pass      |         |
| RB12#0            |              |           | 21.34                 | -0.55                           | 20.79              | 0.120      | 2.000    | Pass      |         |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |      |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|------|
| <b>LTE BAND41</b> |              |           |                       |                                 |                    |            |          |           |         |      |
| 10 MHz            |              |           | RB12#6                | 21.43                           | -0.55              | 20.88      | 0.122    | 2.000     | Pass    |      |
|                   |              |           | RB12#13               | 21.39                           | -0.55              | 20.84      | 0.121    | 2.000     | Pass    |      |
|                   |              |           | RB25#0                | 21.33                           | -0.55              | 20.78      | 0.120    | 2.000     | Pass    |      |
|                   | LCH          | QPSK      | RB1#0                 | 23.03                           | -0.55              | 22.48      | 0.177    | 2.000     | Pass    |      |
|                   |              |           | RB1#25                | 23.29                           | -0.55              | 22.74      | 0.188    | 2.000     | Pass    |      |
|                   |              |           | RB1#49                | 22.99                           | -0.55              | 22.44      | 0.175    | 2.000     | Pass    |      |
|                   |              |           | RB25#0                | 22.05                           | -0.55              | 21.50      | 0.141    | 2.000     | Pass    |      |
|                   |              |           | RB25#13               | 22.06                           | -0.55              | 21.51      | 0.142    | 2.000     | Pass    |      |
|                   |              |           | RB25#25               | 22.09                           | -0.55              | 21.54      | 0.143    | 2.000     | Pass    |      |
|                   |              | 16-QAM    | RB50#0                | 22.01                           | -0.55              | 21.46      | 0.140    | 2.000     | Pass    |      |
|                   |              |           | RB1#0                 | 22.33                           | -0.55              | 21.78      | 0.151    | 2.000     | Pass    |      |
|                   |              |           | RB1#25                | 22.57                           | -0.55              | 22.02      | 0.159    | 2.000     | Pass    |      |
|                   |              |           | RB1#49                | 22.29                           | -0.55              | 21.74      | 0.149    | 2.000     | Pass    |      |
|                   |              |           | RB25#0                | 21.05                           | -0.55              | 20.50      | 0.112    | 2.000     | Pass    |      |
|                   |              |           | RB25#13               | 21.03                           | -0.55              | 20.48      | 0.112    | 2.000     | Pass    |      |
|                   |              | MCH       | QPSK                  | RB25#25                         | 21.07              | -0.55      | 20.52    | 0.113     | 2.000   | Pass |
|                   |              |           |                       | RB50#0                          | 21                 | -0.55      | 20.45    | 0.111     | 2.000   | Pass |
|                   |              |           |                       | RB1#0                           | 23.04              | -0.55      | 22.49    | 0.177     | 2.000   | Pass |
|                   |              |           |                       | RB1#25                          | 23.25              | -0.55      | 22.70    | 0.186     | 2.000   | Pass |
|                   |              |           |                       | RB1#49                          | 22.94              | -0.55      | 22.39    | 0.173     | 2.000   | Pass |
|                   |              |           |                       | RB25#0                          | 22.1               | -0.55      | 21.55    | 0.143     | 2.000   | Pass |
|                   | 16-QAM       |           | RB25#13               | 22.08                           | -0.55              | 21.53      | 0.142    | 2.000     | Pass    |      |
|                   |              |           | RB25#25               | 22.03                           | -0.55              | 21.48      | 0.141    | 2.000     | Pass    |      |
|                   |              |           | RB50#0                | 22.01                           | -0.55              | 21.46      | 0.140    | 2.000     | Pass    |      |
|                   |              |           | RB1#0                 | 22.55                           | -0.55              | 22.00      | 0.158    | 2.000     | Pass    |      |
|                   |              |           | RB1#25                | 22.79                           | -0.55              | 22.24      | 0.167    | 2.000     | Pass    |      |
|                   |              |           | RB1#49                | 22.49                           | -0.55              | 21.94      | 0.156    | 2.000     | Pass    |      |
|                   | HCH          | QPSK      | RB25#0                | 21.09                           | -0.55              | 20.54      | 0.113    | 2.000     | Pass    |      |
|                   |              |           | RB25#13               | 21.08                           | -0.55              | 20.53      | 0.113    | 2.000     | Pass    |      |
|                   |              |           | RB25#25               | 21.06                           | -0.55              | 20.51      | 0.112    | 2.000     | Pass    |      |
| RB50#0            |              |           | 21.06                 | -0.55                           | 20.51              | 0.112      | 2.000    | Pass      |         |      |
| RB1#0             |              |           | 23.14                 | -0.55                           | 22.59              | 0.182      | 2.000    | Pass      |         |      |
| RB1#25            |              |           | 23.44                 | -0.55                           | 22.89              | 0.195      | 2.000    | Pass      |         |      |
| 16-QAM            |              | RB1#49    | 23.21                 | -0.55                           | 22.66              | 0.185      | 2.000    | Pass      |         |      |
|                   |              | RB25#0    | 22.24                 | -0.55                           | 21.69              | 0.148      | 2.000    | Pass      |         |      |
|                   |              | RB1#25    | 22.23                 | -0.55                           | 21.68              | 0.147      | 2.000    | Pass      |         |      |
|                   |              |           | RB25#25               | 22.29                           | -0.55              | 21.74      | 0.149    | 2.000     | Pass    |      |
|                   |              |           | RB50#0                | 22.19                           | -0.55              | 21.64      | 0.146    | 2.000     | Pass    |      |
|                   |              |           | RB1#0                 | 22.61                           | -0.55              | 22.06      | 0.161    | 2.000     | Pass    |      |
|                   |              |           | RB1#25                | 22.9                            | -0.55              | 22.35      | 0.172    | 2.000     | Pass    |      |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND41</b> |              |           |                       |                                 |                    |            |          |           |         |
| 15 MHz            |              |           | RB1#49                | 22.69                           | -0.55              | 22.14      | 0.164    | 2.000     | Pass    |
|                   |              |           | RB25#0                | 21.29                           | -0.55              | 20.74      | 0.119    | 2.000     | Pass    |
|                   |              |           | RB25#13               | 21.34                           | -0.55              | 20.79      | 0.120    | 2.000     | Pass    |
|                   |              |           | RB25#25               | 21.37                           | -0.55              | 20.82      | 0.121    | 2.000     | Pass    |
|                   |              |           | RB50#0                | 21.28                           | -0.55              | 20.73      | 0.118    | 2.000     | Pass    |
|                   | LCH          | QPSK      | RB1#0                 | 23                              | -0.55              | 22.45      | 0.176    | 2.000     | Pass    |
|                   |              |           | RB1#38                | 23.05                           | -0.55              | 22.50      | 0.178    | 2.000     | Pass    |
|                   |              |           | RB1#74                | 22.89                           | -0.55              | 22.34      | 0.171    | 2.000     | Pass    |
|                   |              |           | RB36#0                | 22.09                           | -0.55              | 21.54      | 0.143    | 2.000     | Pass    |
|                   |              |           | RB36#19               | 22.12                           | -0.55              | 21.57      | 0.144    | 2.000     | Pass    |
|                   |              |           | RB36#39               | 22.03                           | -0.55              | 21.48      | 0.141    | 2.000     | Pass    |
|                   |              | RB75#0    | 22.07                 | -0.55                           | 21.52              | 0.142      | 2.000    | Pass      |         |
|                   |              | 16-QAM    | RB1#0                 | 22.29                           | -0.55              | 21.74      | 0.149    | 2.000     | Pass    |
|                   |              |           | RB1#38                | 22.32                           | -0.55              | 21.77      | 0.150    | 2.000     | Pass    |
|                   |              |           | RB1#74                | 22.18                           | -0.55              | 21.63      | 0.146    | 2.000     | Pass    |
|                   |              |           | RB36#0                | 21.01                           | -0.55              | 20.46      | 0.111    | 2.000     | Pass    |
|                   |              |           | RB36#19               | 21.02                           | -0.55              | 20.47      | 0.111    | 2.000     | Pass    |
|                   |              |           | RB36#39               | 20.98                           | -0.55              | 20.43      | 0.110    | 2.000     | Pass    |
|                   | RB75#0       | 21.06     | -0.55                 | 20.51                           | 0.112              | 2.000      | Pass     |           |         |
|                   | MCH          | QPSK      | RB1#0                 | 23                              | -0.55              | 22.45      | 0.176    | 2.000     | Pass    |
|                   |              |           | RB1#38                | 23.04                           | -0.55              | 22.49      | 0.177    | 2.000     | Pass    |
|                   |              |           | RB1#74                | 22.88                           | -0.55              | 22.33      | 0.171    | 2.000     | Pass    |
|                   |              |           | RB36#0                | 22.04                           | -0.55              | 21.49      | 0.141    | 2.000     | Pass    |
|                   |              |           | RB36#19               | 21.99                           | -0.55              | 21.44      | 0.139    | 2.000     | Pass    |
|                   |              |           | RB36#39               | 21.95                           | -0.55              | 21.40      | 0.138    | 2.000     | Pass    |
|                   |              | RB75#0    | 22                    | -0.55                           | 21.45              | 0.140      | 2.000    | Pass      |         |
|                   |              | 16-QAM    | RB1#0                 | 22.55                           | -0.55              | 22.00      | 0.158    | 2.000     | Pass    |
|                   |              |           | RB1#38                | 22.57                           | -0.55              | 22.02      | 0.159    | 2.000     | Pass    |
| RB1#74            |              |           | 22.43                 | -0.55                           | 21.88              | 0.154      | 2.000    | Pass      |         |
| RB36#0            |              |           | 21                    | -0.55                           | 20.45              | 0.111      | 2.000    | Pass      |         |
| RB36#19           |              |           | 20.96                 | -0.55                           | 20.41              | 0.110      | 2.000    | Pass      |         |
| RB36#39           |              |           | 20.93                 | -0.55                           | 20.38              | 0.109      | 2.000    | Pass      |         |
| RB75#0            | 20.99        | -0.55     | 20.44                 | 0.111                           | 2.000              | Pass       |          |           |         |
| HCH               | QPSK         | RB1#0     | 23.03                 | -0.55                           | 22.48              | 0.177      | 2.000    | Pass      |         |
|                   |              | RB1#38    | 23.19                 | -0.55                           | 22.64              | 0.184      | 2.000    | Pass      |         |
|                   |              | RB1#74    | 23.15                 | -0.55                           | 22.60              | 0.182      | 2.000    | Pass      |         |
|                   |              | RB36#0    | 22.12                 | -0.55                           | 21.57              | 0.144      | 2.000    | Pass      |         |
|                   |              | RB36#19   | 22.14                 | -0.55                           | 21.59              | 0.144      | 2.000    | Pass      |         |
|                   |              | RB36#39   | 22.16                 | -0.55                           | 21.61              | 0.145      | 2.000    | Pass      |         |
| RB75#0            | 22.15        | -0.55     | 21.60                 | 0.145                           | 2.000              | Pass       |          |           |         |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND41</b> |              |           |                       |                                 |                    |            |          |           |         |
| 20 MHz            |              | 16-QAM    | RB1#0                 | 22.42                           | -0.55              | 21.87      | 0.154    | 2.000     | Pass    |
|                   |              |           | RB1#38                | 22.56                           | -0.55              | 22.01      | 0.159    | 2.000     | Pass    |
|                   |              |           | RB1#74                | 22.51                           | -0.55              | 21.96      | 0.157    | 2.000     | Pass    |
|                   |              |           | RB36#0                | 21.14                           | -0.55              | 20.59      | 0.115    | 2.000     | Pass    |
|                   |              |           | RB36#19               | 21.21                           | -0.55              | 20.66      | 0.116    | 2.000     | Pass    |
|                   |              |           | RB36#39               | 21.22                           | -0.55              | 20.67      | 0.117    | 2.000     | Pass    |
|                   |              |           | RB75#0                | 21.21                           | -0.55              | 20.66      | 0.116    | 2.000     | Pass    |
|                   | LCH          | QPSK      | RB1#0                 | 22.94                           | -0.55              | 22.39      | 0.173    | 2.000     | Pass    |
|                   |              |           | RB1#50                | 23.27                           | -0.55              | 22.72      | 0.187    | 2.000     | Pass    |
|                   |              |           | RB1#99                | 22.85                           | -0.55              | 22.30      | 0.170    | 2.000     | Pass    |
|                   |              |           | RB50#0                | 21.96                           | -0.55              | 21.41      | 0.138    | 2.000     | Pass    |
|                   |              |           | RB50#25               | 21.98                           | -0.55              | 21.43      | 0.139    | 2.000     | Pass    |
|                   |              |           | RB50#50               | 21.97                           | -0.55              | 21.42      | 0.139    | 2.000     | Pass    |
|                   |              |           | RB100#0               | 21.98                           | -0.55              | 21.43      | 0.139    | 2.000     | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 22.3                            | -0.55              | 21.75      | 0.150    | 2.000     | Pass    |
|                   |              |           | RB1#50                | 22.58                           | -0.55              | 22.03      | 0.160    | 2.000     | Pass    |
|                   |              |           | RB1#99                | 22.16                           | -0.55              | 21.61      | 0.145    | 2.000     | Pass    |
|                   |              |           | RB50#0                | 20.93                           | -0.55              | 20.38      | 0.109    | 2.000     | Pass    |
|                   |              |           | RB50#25               | 20.99                           | -0.55              | 20.44      | 0.111    | 2.000     | Pass    |
|                   |              |           | RB50#50               | 20.94                           | -0.55              | 20.39      | 0.109    | 2.000     | Pass    |
|                   |              |           | RB100#0               | 20.92                           | -0.55              | 20.37      | 0.109    | 2.000     | Pass    |
|                   | MCH          | QPSK      | RB1#0                 | 22.93                           | -0.55              | 22.38      | 0.173    | 2.000     | Pass    |
|                   |              |           | RB1#50                | 23.21                           | -0.55              | 22.66      | 0.185    | 2.000     | Pass    |
|                   |              |           | RB1#99                | 22.75                           | -0.55              | 22.20      | 0.166    | 2.000     | Pass    |
|                   |              |           | RB50#0                | 22.05                           | -0.55              | 21.50      | 0.141    | 2.000     | Pass    |
|                   |              |           | RB50#25               | 22.04                           | -0.55              | 21.49      | 0.141    | 2.000     | Pass    |
|                   |              |           | RB50#50               | 21.95                           | -0.55              | 21.40      | 0.138    | 2.000     | Pass    |
|                   |              |           | RB100#0               | 22.01                           | -0.55              | 21.46      | 0.140    | 2.000     | Pass    |
| 16-QAM            |              | RB1#0     | 22.25                 | -0.55                           | 21.70              | 0.148      | 2.000    | Pass      |         |
|                   |              | RB1#50    | 22.54                 | -0.55                           | 21.99              | 0.158      | 2.000    | Pass      |         |
|                   |              | RB1#99    | 22.1                  | -0.55                           | 21.55              | 0.143      | 2.000    | Pass      |         |
|                   |              | RB50#0    | 21.07                 | -0.55                           | 20.52              | 0.113      | 2.000    | Pass      |         |
|                   |              | RB50#25   | 21.01                 | -0.55                           | 20.46              | 0.111      | 2.000    | Pass      |         |
|                   |              | RB50#50   | 20.95                 | -0.55                           | 20.40              | 0.110      | 2.000    | Pass      |         |
|                   |              | RB100#0   | 21.02                 | -0.55                           | 20.47              | 0.111      | 2.000    | Pass      |         |
| HCH               | QPSK         | RB1#0     | 23.03                 | -0.55                           | 22.48              | 0.177      | 2.000    | Pass      |         |
|                   |              | RB1#50    | 23.44                 | -0.55                           | 22.89              | 0.195      | 2.000    | Pass      |         |
|                   |              | RB1#99    | 23.1                  | -0.55                           | 22.55              | 0.180      | 2.000    | Pass      |         |
|                   |              | RB50#0    | 22.12                 | -0.55                           | 21.57              | 0.144      | 2.000    | Pass      |         |
|                   |              | RB50#25   | 22.15                 | -0.55                           | 21.60              | 0.145      | 2.000    | Pass      |         |



| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND41</b> |              |           |                       |                                 |                    |            |          |           |         |
|                   |              |           | RB50#50               | 22.16                           | -0.55              | 21.61      | 0.145    | 2.000     | Pass    |
|                   |              |           | RB100#0               | 22.14                           | -0.55              | 21.59      | 0.144    | 2.000     | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 22.41                           | -0.55              | 21.86      | 0.153    | 2.000     | Pass    |
|                   |              |           | RB1#50                | 22.85                           | -0.55              | 22.30      | 0.170    | 2.000     | Pass    |
|                   |              |           | RB1#99                | 22.53                           | -0.55              | 21.98      | 0.158    | 2.000     | Pass    |
|                   |              |           | RB50#0                | 21.12                           | -0.55              | 20.57      | 0.114    | 2.000     | Pass    |
|                   |              |           | RB50#25               | 21.2                            | -0.55              | 20.65      | 0.116    | 2.000     | Pass    |
|                   |              |           | RB50#50               | 21.2                            | -0.55              | 20.65      | 0.116    | 2.000     | Pass    |
|                   |              |           | RB100#0               | 21.1                            | -0.55              | 20.55      | 0.114    | 2.000     | Pass    |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND66</b> |              |           |                       |                                 |                    |            |          |           |         |
| 1.4 MHz           | LCH          | QPSK      | RB1#0                 | 22.43                           | -2.63              | 19.80      | 0.095    | 1.000     | Pass    |
|                   |              |           | RB1#3                 | 22.66                           | -2.63              | 20.03      | 0.101    | 1.000     | Pass    |
|                   |              |           | RB1#5                 | 22.42                           | -2.63              | 19.79      | 0.095    | 1.000     | Pass    |
|                   |              |           | RB3#0                 | 22.48                           | -2.63              | 19.85      | 0.097    | 1.000     | Pass    |
|                   |              |           | RB3#2                 | 22.5                            | -2.63              | 19.87      | 0.097    | 1.000     | Pass    |
|                   |              |           | RB3#3                 | 22.46                           | -2.63              | 19.83      | 0.096    | 1.000     | Pass    |
|                   |              | RB6#0     | 21.52                 | -2.63                           | 18.89              | 0.077      | 1.000    | Pass      |         |
|                   |              | 16-QAM    | RB1#0                 | 21.53                           | -2.63              | 18.90      | 0.078    | 1.000     | Pass    |
|                   |              |           | RB1#3                 | 21.7                            | -2.63              | 19.07      | 0.081    | 1.000     | Pass    |
|                   |              |           | RB1#5                 | 21.5                            | -2.63              | 18.87      | 0.077    | 1.000     | Pass    |
|                   |              |           | RB3#0                 | 21.51                           | -2.63              | 18.88      | 0.077    | 1.000     | Pass    |
|                   |              |           | RB3#2                 | 21.47                           | -2.63              | 18.84      | 0.077    | 1.000     | Pass    |
|                   | RB3#3        |           | 21.44                 | -2.63                           | 18.81              | 0.076      | 1.000    | Pass      |         |
|                   | RB6#0        | 20.61     | -2.63                 | 17.98                           | 0.063              | 1.000      | Pass     |           |         |
|                   | MCH          | QPSK      | RB1#0                 | 22.34                           | -2.63              | 19.71      | 0.094    | 1.000     | Pass    |
|                   |              |           | RB1#3                 | 22.54                           | -2.63              | 19.91      | 0.098    | 1.000     | Pass    |
|                   |              |           | RB1#5                 | 22.3                            | -2.63              | 19.67      | 0.093    | 1.000     | Pass    |
|                   |              |           | RB3#0                 | 22.52                           | -2.63              | 19.89      | 0.097    | 1.000     | Pass    |
|                   |              |           | RB3#2                 | 22.48                           | -2.63              | 19.85      | 0.097    | 1.000     | Pass    |
|                   |              |           | RB3#3                 | 22.48                           | -2.63              | 19.85      | 0.097    | 1.000     | Pass    |
|                   |              | RB6#0     | 21.39                 | -2.63                           | 18.76              | 0.075      | 1.000    | Pass      |         |
|                   |              | 16-QAM    | RB1#0                 | 21.79                           | -2.63              | 19.16      | 0.082    | 1.000     | Pass    |
|                   |              |           | RB1#3                 | 21.95                           | -2.63              | 19.32      | 0.086    | 1.000     | Pass    |
|                   |              |           | RB1#5                 | 21.8                            | -2.63              | 19.17      | 0.083    | 1.000     | Pass    |
|                   |              |           | RB3#0                 | 21.75                           | -2.63              | 19.12      | 0.082    | 1.000     | Pass    |
|                   |              |           | RB3#2                 | 21.72                           | -2.63              | 19.09      | 0.081    | 1.000     | Pass    |
|                   | RB3#3        |           | 21.73                 | -2.63                           | 19.10              | 0.081      | 1.000    | Pass      |         |
|                   | RB6#0        | 20.32     | -2.63                 | 17.69                           | 0.059              | 1.000      | Pass     |           |         |
|                   | HCH          | QPSK      | RB1#0                 | 22.33                           | -2.63              | 19.70      | 0.093    | 1.000     | Pass    |
|                   |              |           | RB1#3                 | 22.51                           | -2.63              | 19.88      | 0.097    | 1.000     | Pass    |
|                   |              |           | RB1#5                 | 22.33                           | -2.63              | 19.70      | 0.093    | 1.000     | Pass    |
|                   |              |           | RB3#0                 | 22.47                           | -2.63              | 19.84      | 0.096    | 1.000     | Pass    |
|                   |              |           | RB3#2                 | 22.55                           | -2.63              | 19.92      | 0.098    | 1.000     | Pass    |
|                   |              |           | RB3#3                 | 22.55                           | -2.63              | 19.92      | 0.098    | 1.000     | Pass    |
|                   |              | RB6#0     | 21.41                 | -2.63                           | 18.78              | 0.076      | 1.000    | Pass      |         |
|                   |              | 16-QAM    | RB1#0                 | 21.38                           | -2.63              | 18.75      | 0.075    | 1.000     | Pass    |
| RB1#3             |              |           | 21.6                  | -2.63                           | 18.97              | 0.079      | 1.000    | Pass      |         |
| RB1#5             |              |           | 21.46                 | -2.63                           | 18.83              | 0.076      | 1.000    | Pass      |         |
| RB3#0             |              |           | 21.64                 | -2.63                           | 19.01              | 0.080      | 1.000    | Pass      |         |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |      |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|------|
| <b>LTE BAND66</b> |              |           |                       |                                 |                    |            |          |           |         |      |
| 3 MHz             |              |           | RB3#2                 | 21.67                           | -2.63              | 19.04      | 0.080    | 1.000     | Pass    |      |
|                   |              |           | RB3#3                 | 21.69                           | -2.63              | 19.06      | 0.081    | 1.000     | Pass    |      |
|                   |              |           | RB6#0                 | 20.62                           | -2.63              | 17.99      | 0.063    | 1.000     | Pass    |      |
|                   | LCH          | QPSK      | RB1#0                 | 22.48                           | -2.63              | 19.85      | 0.097    | 1.000     | Pass    |      |
|                   |              |           | RB1#7                 | 22.47                           | -2.63              | 19.84      | 0.096    | 1.000     | Pass    |      |
|                   |              |           | RB1#14                | 22.46                           | -2.63              | 19.83      | 0.096    | 1.000     | Pass    |      |
|                   |              |           | RB8#0                 | 21.5                            | -2.63              | 18.87      | 0.077    | 1.000     | Pass    |      |
|                   |              |           | RB8#4                 | 21.51                           | -2.63              | 18.88      | 0.077    | 1.000     | Pass    |      |
|                   |              |           | RB8#7                 | 21.48                           | -2.63              | 18.85      | 0.077    | 1.000     | Pass    |      |
|                   |              | 16-QAM    | RB15#0                | 21.47                           | -2.63              | 18.84      | 0.077    | 1.000     | Pass    |      |
|                   |              |           | RB1#0                 | 21.38                           | -2.63              | 18.75      | 0.075    | 1.000     | Pass    |      |
|                   |              |           | RB1#7                 | 21.34                           | -2.63              | 18.71      | 0.074    | 1.000     | Pass    |      |
|                   |              |           | RB1#14                | 21.3                            | -2.63              | 18.67      | 0.074    | 1.000     | Pass    |      |
|                   |              |           | RB8#0                 | 20.56                           | -2.63              | 17.93      | 0.062    | 1.000     | Pass    |      |
|                   |              |           | RB8#4                 | 20.62                           | -2.63              | 17.99      | 0.063    | 1.000     | Pass    |      |
|                   |              | MCH       | QPSK                  | RB8#7                           | 20.56              | -2.63      | 17.93    | 0.062     | 1.000   | Pass |
|                   |              |           |                       | RB15#0                          | 20.48              | -2.63      | 17.85    | 0.061     | 1.000   | Pass |
|                   |              |           |                       | RB1#0                           | 22.38              | -2.63      | 19.75    | 0.094     | 1.000   | Pass |
|                   |              |           |                       | RB1#7                           | 22.37              | -2.63      | 19.74    | 0.094     | 1.000   | Pass |
|                   |              |           |                       | RB1#14                          | 22.35              | -2.63      | 19.72    | 0.094     | 1.000   | Pass |
|                   |              |           |                       | RB8#0                           | 21.41              | -2.63      | 18.78    | 0.076     | 1.000   | Pass |
|                   | 16-QAM       |           | RB8#4                 | 21.43                           | -2.63              | 18.80      | 0.076    | 1.000     | Pass    |      |
|                   |              |           | RB8#7                 | 21.39                           | -2.63              | 18.76      | 0.075    | 1.000     | Pass    |      |
|                   |              |           | RB15#0                | 21.41                           | -2.63              | 18.78      | 0.076    | 1.000     | Pass    |      |
|                   |              |           | RB1#0                 | 21.81                           | -2.63              | 19.18      | 0.083    | 1.000     | Pass    |      |
|                   |              |           | RB1#7                 | 21.83                           | -2.63              | 19.20      | 0.083    | 1.000     | Pass    |      |
|                   |              |           | RB1#14                | 21.77                           | -2.63              | 19.14      | 0.082    | 1.000     | Pass    |      |
|                   | HCH          | QPSK      | RB8#0                 | 20.57                           | -2.63              | 17.94      | 0.062    | 1.000     | Pass    |      |
|                   |              |           | RB8#4                 | 20.56                           | -2.63              | 17.93      | 0.062    | 1.000     | Pass    |      |
|                   |              |           | RB8#7                 | 20.5                            | -2.63              | 17.87      | 0.061    | 1.000     | Pass    |      |
| RB15#0            |              |           | 20.47                 | -2.63                           | 17.84              | 0.061      | 1.000    | Pass      |         |      |
| RB1#0             |              |           | 22.4                  | -2.63                           | 19.77              | 0.095      | 1.000    | Pass      |         |      |
| RB1#7             |              |           | 22.39                 | -2.63                           | 19.76              | 0.095      | 1.000    | Pass      |         |      |
| 16-QAM            |              | RB1#14    | 22.39                 | -2.63                           | 19.76              | 0.095      | 1.000    | Pass      |         |      |
|                   |              | RB8#0     | 21.4                  | -2.63                           | 18.77              | 0.075      | 1.000    | Pass      |         |      |
|                   |              |           | RB8#4                 | 21.46                           | -2.63              | 18.83      | 0.076    | 1.000     | Pass    |      |
|                   |              |           | RB8#7                 | 21.38                           | -2.63              | 18.75      | 0.075    | 1.000     | Pass    |      |
|                   |              |           | RB15#0                | 21.43                           | -2.63              | 18.80      | 0.076    | 1.000     | Pass    |      |
|                   |              |           | RB1#0                 | 21.43                           | -2.63              | 18.80      | 0.076    | 1.000     | Pass    |      |
|                   |              |           | RB1#7                 | 21.43                           | -2.63              | 18.80      | 0.076    | 1.000     | Pass    |      |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND66</b> |              |           |                       |                                 |                    |            |          |           |         |
| 5 MHz             |              |           | RB1#14                | 21.41                           | -2.63              | 18.78      | 0.076    | 1.000     | Pass    |
|                   |              |           | RB8#0                 | 20.47                           | -2.63              | 17.84      | 0.061    | 1.000     | Pass    |
|                   |              |           | RB8#4                 | 20.49                           | -2.63              | 17.86      | 0.061    | 1.000     | Pass    |
|                   |              |           | RB8#7                 | 20.46                           | -2.63              | 17.83      | 0.061    | 1.000     | Pass    |
|                   |              |           | RB15#0                | 20.42                           | -2.63              | 17.79      | 0.060    | 1.000     | Pass    |
|                   | LCH          | QPSK      | RB1#0                 | 22.41                           | -2.63              | 19.78      | 0.095    | 1.000     | Pass    |
|                   |              |           | RB1#13                | 22.52                           | -2.63              | 19.89      | 0.097    | 1.000     | Pass    |
|                   |              |           | RB1#24                | 22.38                           | -2.63              | 19.75      | 0.094    | 1.000     | Pass    |
|                   |              |           | RB12#0                | 21.47                           | -2.63              | 18.84      | 0.077    | 1.000     | Pass    |
|                   |              |           | RB12#6                | 21.48                           | -2.63              | 18.85      | 0.077    | 1.000     | Pass    |
|                   |              |           | RB12#13               | 21.42                           | -2.63              | 18.79      | 0.076    | 1.000     | Pass    |
|                   |              | RB25#0    | 21.43                 | -2.63                           | 18.80              | 0.076      | 1.000    | Pass      |         |
|                   |              | 16-QAM    | RB1#0                 | 21.55                           | -2.63              | 18.92      | 0.078    | 1.000     | Pass    |
|                   |              |           | RB1#13                | 21.62                           | -2.63              | 18.99      | 0.079    | 1.000     | Pass    |
|                   |              |           | RB1#24                | 21.49                           | -2.63              | 18.86      | 0.077    | 1.000     | Pass    |
|                   |              |           | RB12#0                | 20.49                           | -2.63              | 17.86      | 0.061    | 1.000     | Pass    |
|                   |              |           | RB12#6                | 20.54                           | -2.63              | 17.91      | 0.062    | 1.000     | Pass    |
|                   | RB12#13      |           | 20.44                 | -2.63                           | 17.81              | 0.060      | 1.000    | Pass      |         |
|                   | RB25#0       | 20.46     | -2.63                 | 17.83                           | 0.061              | 1.000      | Pass     |           |         |
|                   | MCH          | QPSK      | RB1#0                 | 22.31                           | -2.63              | 19.68      | 0.093    | 1.000     | Pass    |
|                   |              |           | RB1#13                | 22.41                           | -2.63              | 19.78      | 0.095    | 1.000     | Pass    |
|                   |              |           | RB1#24                | 22.28                           | -2.63              | 19.65      | 0.092    | 1.000     | Pass    |
|                   |              |           | RB12#0                | 21.44                           | -2.63              | 18.81      | 0.076    | 1.000     | Pass    |
|                   |              |           | RB12#6                | 21.44                           | -2.63              | 18.81      | 0.076    | 1.000     | Pass    |
|                   |              |           | RB12#13               | 21.37                           | -2.63              | 18.74      | 0.075    | 1.000     | Pass    |
|                   |              | RB25#0    | 21.38                 | -2.63                           | 18.75              | 0.075      | 1.000    | Pass      |         |
|                   |              | 16-QAM    | RB1#0                 | 21.91                           | -2.63              | 19.28      | 0.085    | 1.000     | Pass    |
| RB1#13            |              |           | 21.93                 | -2.63                           | 19.30              | 0.085      | 1.000    | Pass      |         |
| RB1#24            |              |           | 21.83                 | -2.63                           | 19.20              | 0.083      | 1.000    | Pass      |         |
| RB12#0            |              |           | 20.58                 | -2.63                           | 17.95              | 0.062      | 1.000    | Pass      |         |
| RB12#6            |              |           | 20.62                 | -2.63                           | 17.99              | 0.063      | 1.000    | Pass      |         |
| RB12#13           | 20.55        |           | -2.63                 | 17.92                           | 0.062              | 1.000      | Pass     |           |         |
| RB25#0            | 20.53        | -2.63     | 17.90                 | 0.062                           | 1.000              | Pass       |          |           |         |
| HCH               | QPSK         | RB1#0     | 22.27                 | -2.63                           | 19.64              | 0.092      | 1.000    | Pass      |         |
|                   |              | RB1#13    | 22.36                 | -2.63                           | 19.73              | 0.094      | 1.000    | Pass      |         |
|                   |              | RB1#24    | 22.26                 | -2.63                           | 19.63              | 0.092      | 1.000    | Pass      |         |
|                   |              | RB12#0    | 21.41                 | -2.63                           | 18.78              | 0.076      | 1.000    | Pass      |         |
|                   |              | RB12#6    | 21.45                 | -2.63                           | 18.82              | 0.076      | 1.000    | Pass      |         |
|                   |              | RB12#13   | 21.38                 | -2.63                           | 18.75              | 0.075      | 1.000    | Pass      |         |
|                   |              | RB25#0    | 21.4                  | -2.63                           | 18.77              | 0.075      | 1.000    | Pass      |         |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND66</b> |              |           |                       |                                 |                    |            |          |           |         |
| 10 MHz            | LCH          | 16-QAM    | RB1#0                 | 21.41                           | -2.63              | 18.78      | 0.076    | 1.000     | Pass    |
|                   |              |           | RB1#13                | 21.57                           | -2.63              | 18.94      | 0.078    | 1.000     | Pass    |
|                   |              |           | RB1#24                | 21.4                            | -2.63              | 18.77      | 0.075    | 1.000     | Pass    |
|                   |              |           | RB12#0                | 20.47                           | -2.63              | 17.84      | 0.061    | 1.000     | Pass    |
|                   |              |           | RB12#6                | 20.54                           | -2.63              | 17.91      | 0.062    | 1.000     | Pass    |
|                   |              |           | RB12#13               | 20.45                           | -2.63              | 17.82      | 0.061    | 1.000     | Pass    |
|                   |              |           | RB25#0                | 20.41                           | -2.63              | 17.78      | 0.060    | 1.000     | Pass    |
|                   | MCH          | QPSK      | RB1#0                 | 22.48                           | -2.63              | 19.85      | 0.097    | 1.000     | Pass    |
|                   |              |           | RB1#25                | 22.54                           | -2.63              | 19.91      | 0.098    | 1.000     | Pass    |
|                   |              |           | RB1#49                | 22.39                           | -2.63              | 19.76      | 0.095    | 1.000     | Pass    |
|                   |              |           | RB25#0                | 21.48                           | -2.63              | 18.85      | 0.077    | 1.000     | Pass    |
|                   |              |           | RB25#13               | 21.51                           | -2.63              | 18.88      | 0.077    | 1.000     | Pass    |
|                   |              |           | RB25#25               | 21.43                           | -2.63              | 18.80      | 0.076    | 1.000     | Pass    |
|                   |              |           | RB50#0                | 21.48                           | -2.63              | 18.85      | 0.077    | 1.000     | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 21.39                           | -2.63              | 18.76      | 0.075    | 1.000     | Pass    |
|                   |              |           | RB1#25                | 21.5                            | -2.63              | 18.87      | 0.077    | 1.000     | Pass    |
|                   |              |           | RB1#49                | 21.28                           | -2.63              | 18.65      | 0.073    | 1.000     | Pass    |
|                   |              |           | RB25#0                | 20.49                           | -2.63              | 17.86      | 0.061    | 1.000     | Pass    |
|                   |              |           | RB25#13               | 20.53                           | -2.63              | 17.90      | 0.062    | 1.000     | Pass    |
|                   |              |           | RB25#25               | 20.45                           | -2.63              | 17.82      | 0.061    | 1.000     | Pass    |
|                   |              |           | RB50#0                | 20.45                           | -2.63              | 17.82      | 0.061    | 1.000     | Pass    |
| HCH               | QPSK         | RB1#0     | 22.42                 | -2.63                           | 19.79              | 0.095      | 1.000    | Pass      |         |
|                   |              | RB1#25    | 22.52                 | -2.63                           | 19.89              | 0.097      | 1.000    | Pass      |         |
|                   |              | RB1#49    | 22.32                 | -2.63                           | 19.69              | 0.093      | 1.000    | Pass      |         |
|                   |              | RB25#0    | 21.44                 | -2.63                           | 18.81              | 0.076      | 1.000    | Pass      |         |
|                   |              | RB25#13   | 21.43                 | -2.63                           | 18.80              | 0.076      | 1.000    | Pass      |         |
|                   |              | RB25#25   | 21.42                 | -2.63                           | 18.79              | 0.076      | 1.000    | Pass      |         |
|                   |              | RB50#0    | 21.47                 | -2.63                           | 18.84              | 0.077      | 1.000    | Pass      |         |
|                   | 16-QAM       | RB1#0     | 21.87                 | -2.63                           | 19.24              | 0.084      | 1.000    | Pass      |         |
|                   |              | RB1#25    | 21.94                 | -2.63                           | 19.31              | 0.085      | 1.000    | Pass      |         |
|                   |              | RB1#49    | 21.73                 | -2.63                           | 19.10              | 0.081      | 1.000    | Pass      |         |
|                   |              | RB25#0    | 20.61                 | -2.63                           | 17.98              | 0.063      | 1.000    | Pass      |         |
|                   |              | RB25#13   | 20.54                 | -2.63                           | 17.91              | 0.062      | 1.000    | Pass      |         |
|                   |              | RB25#25   | 20.56                 | -2.63                           | 17.93              | 0.062      | 1.000    | Pass      |         |
|                   |              | RB50#0    | 20.54                 | -2.63                           | 17.91              | 0.062      | 1.000    | Pass      |         |
| QPSK              | RB1#0        | 22.42     | -2.63                 | 19.79                           | 0.095              | 1.000      | Pass     |           |         |
|                   | RB1#25       | 22.56     | -2.63                 | 19.93                           | 0.098              | 1.000      | Pass     |           |         |
|                   | RB1#49       | 22.37     | -2.63                 | 19.74                           | 0.094              | 1.000      | Pass     |           |         |
|                   | RB25#0       | 21.54     | -2.63                 | 18.91                           | 0.078              | 1.000      | Pass     |           |         |
|                   | RB25#13      | 21.44     | -2.63                 | 18.81                           | 0.076              | 1.000      | Pass     |           |         |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND66</b> |              |           |                       |                                 |                    |            |          |           |         |
|                   |              | 16-QAM    | RB25#25               | 21.41                           | -2.63              | 18.78      | 0.076    | 1.000     | Pass    |
|                   |              |           | RB50#0                | 21.53                           | -2.63              | 18.90      | 0.078    | 1.000     | Pass    |
|                   |              |           | RB1#0                 | 21.36                           | -2.63              | 18.73      | 0.075    | 1.000     | Pass    |
|                   |              |           | RB1#25                | 21.54                           | -2.63              | 18.91      | 0.078    | 1.000     | Pass    |
|                   |              |           | RB1#49                | 21.41                           | -2.63              | 18.78      | 0.076    | 1.000     | Pass    |
|                   |              |           | RB25#0                | 20.6                            | -2.63              | 17.97      | 0.063    | 1.000     | Pass    |
|                   |              |           | RB25#13               | 20.54                           | -2.63              | 17.91      | 0.062    | 1.000     | Pass    |
|                   |              |           | RB25#25               | 20.56                           | -2.63              | 17.93      | 0.062    | 1.000     | Pass    |
| 15 MHz            | LCH          | QPSK      | RB1#0                 | 22.44                           | -2.63              | 19.81      | 0.096    | 1.000     | Pass    |
|                   |              |           | RB1#38                | 22.49                           | -2.63              | 19.86      | 0.097    | 1.000     | Pass    |
|                   |              |           | RB1#74                | 22.35                           | -2.63              | 19.72      | 0.094    | 1.000     | Pass    |
|                   |              |           | RB36#0                | 21.57                           | -2.63              | 18.94      | 0.078    | 1.000     | Pass    |
|                   |              |           | RB36#19               | 21.61                           | -2.63              | 18.98      | 0.079    | 1.000     | Pass    |
|                   |              |           | RB36#39               | 21.53                           | -2.63              | 18.90      | 0.078    | 1.000     | Pass    |
|                   |              |           | RB75#0                | 21.58                           | -2.63              | 18.95      | 0.079    | 1.000     | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 21.4                            | -2.63              | 18.77      | 0.075    | 1.000     | Pass    |
|                   |              |           | RB1#38                | 21.38                           | -2.63              | 18.75      | 0.075    | 1.000     | Pass    |
|                   |              |           | RB1#74                | 21.29                           | -2.63              | 18.66      | 0.073    | 1.000     | Pass    |
|                   |              |           | RB36#0                | 20.51                           | -2.63              | 17.88      | 0.061    | 1.000     | Pass    |
|                   |              |           | RB36#19               | 20.53                           | -2.63              | 17.90      | 0.062    | 1.000     | Pass    |
|                   |              |           | RB36#39               | 20.47                           | -2.63              | 17.84      | 0.061    | 1.000     | Pass    |
|                   |              |           | RB75#0                | 20.56                           | -2.63              | 17.93      | 0.062    | 1.000     | Pass    |
|                   | MCH          | QPSK      | RB1#0                 | 22.41                           | -2.63              | 19.78      | 0.095    | 1.000     | Pass    |
|                   |              |           | RB1#38                | 22.43                           | -2.63              | 19.80      | 0.095    | 1.000     | Pass    |
|                   |              |           | RB1#74                | 22.25                           | -2.63              | 19.62      | 0.092    | 1.000     | Pass    |
|                   |              |           | RB36#0                | 21.52                           | -2.63              | 18.89      | 0.077    | 1.000     | Pass    |
|                   |              |           | RB36#19               | 21.49                           | -2.63              | 18.86      | 0.077    | 1.000     | Pass    |
|                   |              |           | RB36#39               | 21.45                           | -2.63              | 18.82      | 0.076    | 1.000     | Pass    |
|                   |              |           | RB75#0                | 21.5                            | -2.63              | 18.87      | 0.077    | 1.000     | Pass    |
| 16-QAM            |              | RB1#0     | 21.89                 | -2.63                           | 19.26              | 0.084      | 1.000    | Pass      |         |
|                   |              | RB1#38    | 21.87                 | -2.63                           | 19.24              | 0.084      | 1.000    | Pass      |         |
|                   |              | RB1#74    | 21.65                 | -2.63                           | 19.02              | 0.080      | 1.000    | Pass      |         |
|                   |              | RB36#0    | 20.55                 | -2.63                           | 17.92              | 0.062      | 1.000    | Pass      |         |
|                   |              | RB36#19   | 20.6                  | -2.63                           | 17.97              | 0.063      | 1.000    | Pass      |         |
|                   |              | RB36#39   | 20.45                 | -2.63                           | 17.82              | 0.061      | 1.000    | Pass      |         |
|                   |              | RB75#0    | 20.54                 | -2.63                           | 17.91              | 0.062      | 1.000    | Pass      |         |
| HCH               | QPSK         | RB1#0     | 22.41                 | -2.63                           | 19.78              | 0.095      | 1.000    | Pass      |         |
|                   |              | RB1#38    | 22.44                 | -2.63                           | 19.81              | 0.096      | 1.000    | Pass      |         |
|                   |              | RB1#74    | 22.25                 | -2.63                           | 19.62              | 0.092      | 1.000    | Pass      |         |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND66</b> |              |           |                       |                                 |                    |            |          |           |         |
| 20 MHz            | LCH          | 16-QAM    | RB36#0                | 21.55                           | -2.63              | 18.92      | 0.078    | 1.000     | Pass    |
|                   |              |           | RB36#19               | 21.56                           | -2.63              | 18.93      | 0.078    | 1.000     | Pass    |
|                   |              |           | RB36#39               | 21.46                           | -2.63              | 18.83      | 0.076    | 1.000     | Pass    |
|                   |              |           | RB75#0                | 21.52                           | -2.63              | 18.89      | 0.077    | 1.000     | Pass    |
|                   |              | QPSK      | RB1#0                 | 21.73                           | -2.63              | 19.10      | 0.081    | 1.000     | Pass    |
|                   |              |           | RB1#38                | 21.78                           | -2.63              | 19.15      | 0.082    | 1.000     | Pass    |
|                   |              |           | RB1#74                | 21.71                           | -2.63              | 19.08      | 0.081    | 1.000     | Pass    |
|                   |              |           | RB36#0                | 20.46                           | -2.63              | 17.83      | 0.061    | 1.000     | Pass    |
|                   |              |           | RB36#19               | 20.47                           | -2.63              | 17.84      | 0.061    | 1.000     | Pass    |
|                   |              |           | RB36#39               | 20.41                           | -2.63              | 17.78      | 0.060    | 1.000     | Pass    |
|                   |              |           | RB75#0                | 20.45                           | -2.63              | 17.82      | 0.061    | 1.000     | Pass    |
|                   |              |           | RB1#0                 | 22.46                           | -2.63              | 19.83      | 0.096    | 1.000     | Pass    |
|                   |              |           | RB1#50                | 22.69                           | -2.63              | 20.06      | 0.101    | 1.000     | Pass    |
|                   |              |           | RB1#99                | 22.36                           | -2.63              | 19.73      | 0.094    | 1.000     | Pass    |
|                   |              |           | RB50#0                | 21.54                           | -2.63              | 18.91      | 0.078    | 1.000     | Pass    |
|                   |              |           | RB50#25               | 21.47                           | -2.63              | 18.84      | 0.077    | 1.000     | Pass    |
|                   |              |           | RB50#50               | 21.38                           | -2.63              | 18.75      | 0.075    | 1.000     | Pass    |
|                   |              |           | RB100#0               | 21.45                           | -2.63              | 18.82      | 0.076    | 1.000     | Pass    |
|                   |              |           | MCH                   | 16-QAM                          | RB1#0              | 21.9       | -2.63    | 19.27     | 0.085   |
| RB1#50            | 22.11        | -2.63     |                       |                                 | 19.48              | 0.089      | 1.000    | Pass      |         |
| RB1#99            | 21.84        | -2.63     |                       |                                 | 19.21              | 0.083      | 1.000    | Pass      |         |
| RB50#0            | 20.54        | -2.63     |                       |                                 | 17.91              | 0.062      | 1.000    | Pass      |         |
| RB50#25           | 20.51        | -2.63     |                       |                                 | 17.88              | 0.061      | 1.000    | Pass      |         |
| RB50#50           | 20.4         | -2.63     |                       |                                 | 17.77              | 0.060      | 1.000    | Pass      |         |
| RB100#0           | 20.48        | -2.63     |                       |                                 | 17.85              | 0.061      | 1.000    | Pass      |         |
| QPSK              | RB1#0        | 22.44     |                       | -2.63                           | 19.81              | 0.096      | 1.000    | Pass      |         |
|                   | RB1#50       | 22.59     |                       | -2.63                           | 19.96              | 0.099      | 1.000    | Pass      |         |
|                   | RB1#99       | 22.21     |                       | -2.63                           | 19.58              | 0.091      | 1.000    | Pass      |         |
|                   | RB50#0       | 21.51     |                       | -2.63                           | 18.88              | 0.077      | 1.000    | Pass      |         |
|                   | RB50#25      | 21.52     |                       | -2.63                           | 18.89              | 0.077      | 1.000    | Pass      |         |
|                   | RB50#50      | 21.42     |                       | -2.63                           | 18.79              | 0.076      | 1.000    | Pass      |         |
|                   | RB100#0      | 21.43     |                       | -2.63                           | 18.80              | 0.076      | 1.000    | Pass      |         |
|                   | 16-QAM       | RB1#0     |                       | 21.95                           | -2.63              | 19.32      | 0.086    | 1.000     | Pass    |
| RB1#50            |              | 22.08     | -2.63                 | 19.45                           | 0.088              | 1.000      | Pass     |           |         |
| RB1#99            |              | 21.7      | -2.63                 | 19.07                           | 0.081              | 1.000      | Pass     |           |         |
| RB50#0            |              | 20.59     | -2.63                 | 17.96                           | 0.063              | 1.000      | Pass     |           |         |
| RB50#25           |              | 20.63     | -2.63                 | 18.00                           | 0.063              | 1.000      | Pass     |           |         |
| RB50#50           |              | 20.45     | -2.63                 | 17.82                           | 0.061              | 1.000      | Pass     |           |         |
| RB100#0           |              | 20.52     | -2.63                 | 17.89                           | 0.062              | 1.000      | Pass     |           |         |
| HCH               | QPSK         | RB1#0     | 22.25                 | -2.63                           | 19.62              | 0.092      | 1.000    | Pass      |         |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND66</b> |              |           |                       |                                 |                    |            |          |           |         |
|                   |              |           | RB1#50                | 22.58                           | -2.63              | 19.95      | 0.099    | 1.000     | Pass    |
|                   |              |           | RB1#99                | 22.11                           | -2.63              | 19.48      | 0.089    | 1.000     | Pass    |
|                   |              |           | RB50#0                | 21.54                           | -2.63              | 18.91      | 0.078    | 1.000     | Pass    |
|                   |              |           | RB50#25               | 21.41                           | -2.63              | 18.78      | 0.076    | 1.000     | Pass    |
|                   |              |           | RB50#50               | 21.23                           | -2.63              | 18.60      | 0.072    | 1.000     | Pass    |
|                   |              |           | RB100#0               | 21.43                           | -2.63              | 18.80      | 0.076    | 1.000     | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 21.65                           | -2.63              | 19.02      | 0.080    | 1.000     | Pass    |
|                   |              |           | RB1#50                | 21.84                           | -2.63              | 19.21      | 0.083    | 1.000     | Pass    |
|                   |              |           | RB1#99                | 21.69                           | -2.63              | 19.06      | 0.081    | 1.000     | Pass    |
|                   |              |           | RB50#0                | 20.52                           | -2.63              | 17.89      | 0.062    | 1.000     | Pass    |
|                   |              |           | RB50#25               | 20.39                           | -2.63              | 17.76      | 0.060    | 1.000     | Pass    |
|                   |              |           | RB50#50               | 20.22                           | -2.63              | 17.59      | 0.057    | 1.000     | Pass    |
|                   |              |           | RB100#0               | 20.44                           | -2.63              | 17.81      | 0.060    | 1.000     | Pass    |



| Modulation         | PCC RB |        | SCC RB |        | Conducted Output AV Power (dBm) |       |       | Antenna Gain (dBi) | EIRP (W) |       |       | Limit (W) |
|--------------------|--------|--------|--------|--------|---------------------------------|-------|-------|--------------------|----------|-------|-------|-----------|
|                    | Size   | Offset | Size   | Offset | LCH                             | MCH   | HCH   |                    | LCH      | MCH   | HCH   |           |
| <b>CA_7C</b>       |        |        |        |        |                                 |       |       |                    |          |       |       |           |
| <b>10MHz+20MHz</b> |        |        |        |        |                                 |       |       |                    |          |       |       |           |
| QPSK               | 1      | 49     | 1      | 0      | 21.56                           | 21.6  | 21.56 | -0.55              | 0.126    | 0.127 | 0.126 | 2.000     |
|                    | 50     | 0      | 100    | 0      | 19.67                           | 19.63 | 19.61 | -0.55              | 0.082    | 0.081 | 0.081 | 2.000     |
| 16-QAM             | 1      | 49     | 1      | 0      | 20.96                           | 20.38 | 20.27 | -0.55              | 0.110    | 0.096 | 0.094 | 2.000     |
|                    | 50     | 0      | 100    | 0      | 18.65                           | 18.68 | 18.64 | -0.55              | 0.065    | 0.065 | 0.064 | 2.000     |
| <b>20MHz+10MHz</b> |        |        |        |        |                                 |       |       |                    |          |       |       |           |
| QPSK               | 1      | 99     | 1      | 0      | 21.68                           | 21.76 | 21.66 | -0.55              | 0.130    | 0.132 | 0.129 | 2.000     |
|                    | 100    | 0      | 50     | 0      | 19.7                            | 19.68 | 19.71 | -0.55              | 0.082    | 0.082 | 0.082 | 2.000     |
| 16-QAM             | 1      | 99     | 1      | 0      | 20.57                           | 21.09 | 20.83 | -0.55              | 0.100    | 0.113 | 0.107 | 2.000     |
|                    | 100    | 0      | 50     | 0      | 18.68                           | 18.69 | 18.66 | -0.55              | 0.065    | 0.065 | 0.065 | 2.000     |
| <b>15MHz+15MHz</b> |        |        |        |        |                                 |       |       |                    |          |       |       |           |
| QPSK               | 1      | 74     | 1      | 0      | 21.68                           | 21.46 | 21.37 | -0.55              | 0.130    | 0.123 | 0.121 | 2.000     |
|                    | 75     | 0      | 75     | 0      | 20.2                            | 19.65 | 19.81 | -0.55              | 0.092    | 0.081 | 0.084 | 2.000     |
| 16-QAM             | 1      | 74     | 1      | 0      | 20.43                           | 21.1  | 20.55 | -0.55              | 0.097    | 0.114 | 0.100 | 2.000     |
|                    | 75     | 0      | 75     | 0      | 18.67                           | 19.21 | 18.62 | -0.55              | 0.065    | 0.073 | 0.064 | 2.000     |
| <b>15MHz+20MHz</b> |        |        |        |        |                                 |       |       |                    |          |       |       |           |
| QPSK               | 1      | 74     | 1      | 0      | 21.99                           | 21.98 | 21.9  | -0.55              | 0.139    | 0.139 | 0.136 | 2.000     |
|                    | 75     | 0      | 100    | 0      | 20.14                           | 20.15 | 20.13 | -0.55              | 0.091    | 0.091 | 0.091 | 2.000     |
| 16-QAM             | 1      | 74     | 1      | 0      | 20.76                           | 20.75 | 21.3  | -0.55              | 0.105    | 0.105 | 0.119 | 2.000     |
|                    | 75     | 0      | 100    | 0      | 19.07                           | 19.07 | 19.11 | -0.55              | 0.071    | 0.071 | 0.072 | 2.000     |
| <b>20MHz+15MHz</b> |        |        |        |        |                                 |       |       |                    |          |       |       |           |
| QPSK               | 1      | 99     | 1      | 0      | 22.09                           | 22.25 | 22.19 | -0.55              | 0.143    | 0.148 | 0.146 | 2.000     |
|                    | 100    | 0      | 75     | 0      | 20.11                           | 20.11 | 20.1  | -0.55              | 0.090    | 0.090 | 0.090 | 2.000     |
| 16-QAM             | 1      | 99     | 1      | 0      | 21.25                           | 21.12 | 21.5  | -0.55              | 0.117    | 0.114 | 0.124 | 2.000     |
|                    | 100    | 0      | 75     | 0      | 19.06                           | 19.05 | 19.05 | -0.55              | 0.071    | 0.071 | 0.071 | 2.000     |
| <b>20MHz+20MHz</b> |        |        |        |        |                                 |       |       |                    |          |       |       |           |
| QPSK               | 1      | 99     | 1      | 0      | 22.06                           | 22.12 | 22.17 | -0.55              | 0.142    | 0.144 | 0.145 | 2.000     |
|                    | 100    | 0      | 100    | 0      | 20.11                           | 20.06 | 20.08 | -0.55              | 0.090    | 0.089 | 0.090 | 2.000     |
| 16-QAM             | 1      | 99     | 1      | 0      | 20.91                           | 21.13 | 21.41 | -0.55              | 0.109    | 0.114 | 0.122 | 2.000     |
|                    | 100    | 0      | 100    | 0      | 19.09                           | 19.09 | 19.08 | -0.55              | 0.109    | 0.071 | 0.071 | 2.000     |

| Modulation    | PCC RB |        | SCC RB |        | Conducted Output AV Power (dBm) |       |       | Antenna Gain (dBi) | Antenna Gain (dBd) | ERP (W) |       |       | Limit (W) |
|---------------|--------|--------|--------|--------|---------------------------------|-------|-------|--------------------|--------------------|---------|-------|-------|-----------|
|               | Size   | Offset | Size   | Offset | LCH                             | MCH   | HCH   |                    |                    | LCH     | MCH   | HCH   |           |
| <b>CA_38C</b> |        |        |        |        |                                 |       |       |                    |                    |         |       |       |           |
| 15MHz+15MHz   |        |        |        |        |                                 |       |       |                    |                    |         |       |       |           |
| QPSK          | 1      | 74     | 1      | 0      | 22.63                           | 22.58 | 22.64 | -0.55              | 0.161              | 0.160   | 0.162 | 2.000 |           |
|               | 75     | 0      | 75     | 0      | 20.67                           | 20.66 | 20.69 | -0.55              | 0.103              | 0.103   | 0.103 | 2.000 |           |
| 16-QAM        | 1      | 74     | 1      | 0      | 21.83                           | 21.65 | 21.85 | -0.55              | 0.134              | 0.129   | 0.135 | 2.000 |           |
|               | 75     | 0      | 75     | 0      | 19.67                           | 19.63 | 19.63 | -0.55              | 0.082              | 0.081   | 0.081 | 2.000 |           |
| 20MHz+20MHz   |        |        |        |        |                                 |       |       |                    |                    |         |       |       |           |
| QPSK          | 1      | 99     | 1      | 0      | 22.62                           | 22.57 | 22.61 | -0.55              | 0.161              | 0.159   | 0.161 | 2.000 |           |
|               | 100    | 0      | 100    | 0      | 20.66                           | 20.68 | 20.66 | -0.55              | 0.103              | 0.103   | 0.103 | 2.000 |           |
| 16-QAM        | 1      | 99     | 1      | 0      | 21.5                            | 21.41 | 21.61 | -0.55              | 0.124              | 0.122   | 0.128 | 2.000 |           |
|               | 100    | 0      | 100    | 0      | 19.64                           | 19.66 | 19.62 | -0.55              | 0.081              | 0.081   | 0.081 | 2.000 |           |

| Modulation         | PCC RB |        | SCC RB |        | Conducted Output AV Power (dBm) |       |       | Antenna Gain (dBi) | EIRP (W) |       |       | Limit (W) |
|--------------------|--------|--------|--------|--------|---------------------------------|-------|-------|--------------------|----------|-------|-------|-----------|
|                    | Size   | Offset | Size   | Offset | LCH                             | MCH   | HCH   |                    | LCH      | MCH   | HCH   |           |
| <b>CA_41C</b>      |        |        |        |        |                                 |       |       |                    |          |       |       |           |
| <b>5MHz+20MHz</b>  |        |        |        |        |                                 |       |       |                    |          |       |       |           |
| QPSK               | 1      | 49     | 1      | 0      | 22.64                           | 22.59 | 22.27 | -0.55              | 0.162    | 0.160 | 0.149 | 2.000     |
|                    | 50     | 0      | 100    | 0      | 20.77                           | 20.72 | 20.63 | -0.55              | 0.105    | 0.104 | 0.102 | 2.000     |
| 16-QAM             | 1      | 49     | 1      | 0      | 21.78                           | 21.67 | 21.55 | -0.55              | 0.133    | 0.129 | 0.126 | 2.000     |
|                    | 50     | 0      | 100    | 0      | 19.76                           | 19.68 | 19.61 | -0.55              | 0.083    | 0.082 | 0.081 | 2.000     |
| <b>20MHz+5MHz</b>  |        |        |        |        |                                 |       |       |                    |          |       |       |           |
| QPSK               | 1      | 99     | 1      | 0      | 22.73                           | 22.64 | 22.57 | -0.55              | 0.165    | 0.162 | 0.159 | 2.000     |
|                    | 100    | 0      | 50     | 0      | 20.79                           | 20.67 | 20.59 | -0.55              | 0.106    | 0.103 | 0.101 | 2.000     |
| 16-QAM             | 1      | 99     | 1      | 0      | 21.58                           | 21.53 | 21.49 | -0.55              | 0.127    | 0.125 | 0.124 | 2.000     |
|                    | 100    | 0      | 50     | 0      | 19.73                           | 19.64 | 19.61 | -0.55              | 0.083    | 0.081 | 0.081 | 2.000     |
| <b>10MHz+20MHz</b> |        |        |        |        |                                 |       |       |                    |          |       |       |           |
| QPSK               | 1      | 74     | 1      | 0      | 22.76                           | 22.69 | 22.65 | -0.55              | 0.166    | 0.164 | 0.162 | 2.000     |
|                    | 75     | 0      | 75     | 0      | 20.77                           | 20.68 | 20.61 | -0.55              | 0.105    | 0.103 | 0.101 | 2.000     |
| 16-QAM             | 1      | 74     | 1      | 0      | 21.59                           | 21.54 | 21.47 | -0.55              | 0.127    | 0.126 | 0.124 | 2.000     |
|                    | 75     | 0      | 75     | 0      | 19.74                           | 19.63 | 19.61 | -0.55              | 0.083    | 0.081 | 0.081 | 2.000     |
| <b>20MHz+10MHz</b> |        |        |        |        |                                 |       |       |                    |          |       |       |           |
| QPSK               | 1      | 74     | 1      | 0      | 22.78                           | 22.68 | 22.62 | -0.55              | 0.167    | 0.163 | 0.161 | 2.000     |
|                    | 75     | 0      | 100    | 0      | 20.79                           | 20.67 | 20.65 | -0.55              | 0.106    | 0.103 | 0.102 | 2.000     |
| 16-QAM             | 1      | 74     | 1      | 0      | 21.62                           | 21.58 | 21.52 | -0.55              | 0.128    | 0.127 | 0.125 | 2.000     |
|                    | 75     | 0      | 100    | 0      | 19.78                           | 19.73 | 19.62 | -0.55              | 0.084    | 0.083 | 0.081 | 2.000     |
| <b>15MHz+15MHz</b> |        |        |        |        |                                 |       |       |                    |          |       |       |           |
| QPSK               | 1      | 99     | 1      | 0      | 22.8                            | 22.51 | 22.26 | -0.55              | 0.168    | 0.157 | 0.148 | 2.000     |
|                    | 100    | 0      | 75     | 0      | 20.8                            | 20.6  | 20.59 | -0.55              | 0.106    | 0.101 | 0.101 | 2.000     |
| 16-QAM             | 1      | 99     | 1      | 0      | 21.88                           | 22.01 | 21.86 | -0.55              | 0.136    | 0.140 | 0.135 | 2.000     |
|                    | 100    | 0      | 75     | 0      | 19.79                           | 19.59 | 19.56 | -0.55              | 0.084    | 0.080 | 0.080 | 2.000     |
| <b>15MHz+20MHz</b> |        |        |        |        |                                 |       |       |                    |          |       |       |           |
| QPSK               | 1      | 99     | 1      | 0      | 22.77                           | 22.69 | 22.64 | -0.55              | 0.167    | 0.164 | 0.162 | 2.000     |
|                    | 100    | 0      | 100    | 0      | 20.77                           | 20.68 | 20.61 | -0.55              | 0.105    | 0.103 | 0.101 | 2.000     |
| 16-QAM             | 1      | 99     | 1      | 0      | 21.79                           | 21.67 | 21.61 | -0.55              | 0.133    | 0.129 | 0.128 | 2.000     |
|                    | 100    | 0      | 100    | 0      | 19.78                           | 19.65 | 19.59 | -0.55              | 0.084    | 0.081 | 0.080 | 2.000     |
| <b>20MHz+15MHz</b> |        |        |        |        |                                 |       |       |                    |          |       |       |           |
| QPSK               | 1      | 99     | 1      | 0      | 22.82                           | 22.7  | 22.51 | -0.55              | 0.169    | 0.164 | 0.157 | 2.000     |
|                    | 100    | 0      | 100    | 0      | 20.79                           | 20.66 | 20.61 | -0.55              | 0.106    | 0.103 | 0.101 | 2.000     |
| 16-QAM             | 1      | 99     | 1      | 0      | 21.86                           | 21.82 | 21.26 | -0.55              | 0.135    | 0.134 | 0.118 | 2.000     |
|                    | 100    | 0      | 100    | 0      | 19.71                           | 19.64 | 19.59 | -0.55              | 0.082    | 0.081 | 0.080 | 2.000     |
| <b>20MHz+20MHz</b> |        |        |        |        |                                 |       |       |                    |          |       |       |           |
| QPSK               | 1      | 99     | 1      | 0      | 22.83                           | 22.71 | 22.63 | -0.55              | 0.169    | 0.164 | 0.161 | 2.000     |
|                    | 100    | 0      | 100    | 0      | 20.74                           | 20.64 | 20.6  | -0.55              | 0.104    | 0.102 | 0.101 | 2.000     |
| 16-QAM             | 1      | 99     | 1      | 0      | 21.7                            | 21.62 | 21.57 | -0.55              | 0.130    | 0.128 | 0.126 | 2.000     |
|                    | 100    | 0      | 100    | 0      | 19.69                           | 19.65 | 19.61 | -0.55              | 0.082    | 0.081 | 0.081 | 2.000     |

## 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-SZ2210380-501 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          | 2.91                       | 13         | 1.2                            | Pass    |
|           | MCH          | 3                          | 13         | 1.3                            | Pass    |
|           | HCH          | 2.95                       | 13         | 1.4                            | Pass    |
| Band 4    | LCH          | 2.91                       | 13         | 2.1                            | Pass    |
|           | MCH          | 2.95                       | 13         | 2.2                            | Pass    |
|           | HCH          | 3.05                       | 13         | 2.3                            | Pass    |
| Band 5    | LCH          | 3.19                       | 13         | 3.1                            | Pass    |
|           | MCH          | 2.86                       | 13         | 3.2                            | Pass    |
|           | HCH          | 3                          | 13         | 3.3                            | Pass    |

### LTE Mode Test Data

| Test Band  | Test Bandwidth | Test Channel | Test Mode | 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                 | 4.69                       | 13         | 4.1                            | Pass    |
|            |                |              |           | RB100#0               | 5.58                       | 13         | 4.2                            | Pass    |
|            |                |              | 16-QAM    | RB1#0                 | 5.3                        | 13         | 4.3                            | Pass    |
|            |                |              |           | RB100#0               | 6.33                       | 13         | 4.4                            | Pass    |
|            |                | MCH          | QPSK      | RB1#0                 | 5.25                       | 13         | 4.5                            | Pass    |
|            |                |              |           | RB100#0               | 5.67                       | 13         | 4.6                            | Pass    |
|            |                |              | 16-QAM    | RB1#0                 | 6                          | 13         | 4.7                            | Pass    |
|            |                |              |           | RB100#0               | 6.37                       | 13         | 4.8                            | Pass    |
|            |                | HCH          | QPSK      | RB1#0                 | 5.2                        | 13         | 4.9                            | Pass    |
|            |                |              |           | RB100#0               | 5.62                       | 13         | 4.10                           | Pass    |
|            |                |              | 16-QAM    | RB1#0                 | 6.19                       | 13         | 4.11                           | Pass    |
|            |                |              |           | RB100#0               | 6.37                       | 13         | 4.12                           | Pass    |
| LTE Band 4 | 20 MHz         | LCH          | QPSK      | RB1#0                 | 4.78                       | 13         | 5.1                            | Pass    |
|            |                |              |           | RB100#0               | 5.62                       | 13         | 5.2                            | Pass    |
|            |                |              | 16-QAM    | RB1#0                 | 5.48                       | 13         | 5.3                            | Pass    |
|            |                |              |           | RB100#0               | 6.42                       | 13         | 5.4                            | Pass    |
|            |                | MCH          | QPSK      | RB1#0                 | 4.97                       | 13         | 5.5                            | Pass    |
|            |                |              |           | RB100#0               | 5.48                       | 13         | 5.6                            | Pass    |
|            |                |              | 16-QAM    | RB1#0                 | 5.81                       | 13         | 5.7                            | Pass    |
|            |                |              |           | RB100#0               | 6.23                       | 13         | 5.8                            | Pass    |

| Test Band   | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Peak to Average Ratio (dB) | Limit (dB) | Refer to Plot <sup>Note2</sup> | Verdict |
|-------------|----------------|--------------|-----------|-----------------------|----------------------------|------------|--------------------------------|---------|
|             |                | HCH          | QPSK      | RB1#0                 | 5.02                       | 13         | 5.9                            | Pass    |
|             |                |              |           | RB100#0               | 5.67                       | 13         | 5.10                           | Pass    |
|             |                |              | 16-QAM    | RB1#0                 | 6                          | 13         | 5.11                           | Pass    |
|             |                |              |           | RB100#0               | 6.37                       | 13         | 5.12                           | Pass    |
| LTE Band 5  | 10 MHz         | LCH          | QPSK      | RB1#0                 | 5.02                       | 13         | 6.1                            | Pass    |
|             |                |              |           | RB50#0                | 5.62                       | 13         | 6.2                            | Pass    |
|             |                |              | 16-QAM    | RB1#0                 | 5.91                       | 13         | 6.3                            | Pass    |
|             |                |              |           | RB50#0                | 6.42                       | 13         | 6.4                            | Pass    |
|             |                | MCH          | QPSK      | RB1#0                 | 3.98                       | 13         | 6.5                            | Pass    |
|             |                |              |           | RB50#0                | 5.48                       | 13         | 6.6                            | Pass    |
|             |                |              | 16-QAM    | RB1#0                 | 4.73                       | 13         | 6.7                            | Pass    |
|             |                |              |           | RB50#0                | 6.19                       | 13         | 6.8                            | Pass    |
|             |                | HCH          | QPSK      | RB1#0                 | 4.31                       | 13         | 6.9                            | Pass    |
|             |                |              |           | RB50#0                | 5.53                       | 13         | 6.10                           | Pass    |
|             |                |              | 16-QAM    | RB1#0                 | 5.06                       | 13         | 6.11                           | Pass    |
|             |                |              |           | RB50#0                | 6.28                       | 13         | 6.12                           | Pass    |
| LTE Band 7  | 20 MHz         | LCH          | QPSK      | RB1#0                 | 4.27                       | 13         | 7.1                            | Pass    |
|             |                |              |           | RB100#0               | 5.39                       | 13         | 7.2                            | Pass    |
|             |                |              | 16-QAM    | RB1#0                 | 5.06                       | 13         | 7.3                            | Pass    |
|             |                |              |           | RB100#0               | 6                          | 13         | 7.4                            | Pass    |
|             |                | MCH          | QPSK      | RB1#0                 | 4.64                       | 13         | 7.5                            | Pass    |
|             |                |              |           | RB100#0               | 5.44                       | 13         | 7.6                            | Pass    |
|             |                |              | 16-QAM    | RB1#0                 | 5.58                       | 13         | 7.7                            | Pass    |
|             |                |              |           | RB100#0               | 6.14                       | 13         | 7.8                            | Pass    |
|             |                | HCH          | QPSK      | RB1#0                 | 4.08                       | 13         | 7.9                            | Pass    |
|             |                |              |           | RB100#0               | 5.34                       | 13         | 7.10                           | Pass    |
|             |                |              | 16-QAM    | RB1#0                 | 4.78                       | 13         | 7.11                           | Pass    |
|             |                |              |           | RB100#0               | 6.05                       | 13         | 7.12                           | Pass    |
| LTE Band 38 | 20 MHz         | LCH          | QPSK      | RB1#0                 | 8.72                       | 13         | 8.1                            | Pass    |
|             |                |              |           | RB100#0               | 9.33                       | 13         | 8.2                            | Pass    |
|             |                |              | 16-QAM    | RB1#0                 | 9.33                       | 13         | 8.3                            | Pass    |
|             |                |              |           | RB100#0               | 9.94                       | 13         | 8.4                            | Pass    |
|             |                | MCH          | QPSK      | RB1#0                 | 9.05                       | 13         | 8.5                            | Pass    |
|             |                |              |           | RB100#0               | 9.42                       | 13         | 8.6                            | Pass    |
|             |                |              | 16-QAM    | RB1#0                 | 9.7                        | 13         | 8.7                            | Pass    |
|             |                |              |           | RB100#0               | 10.03                      | 13         | 8.8                            | Pass    |
|             |                | HCH          | QPSK      | RB1#0                 | 9.14                       | 13         | 8.9                            | Pass    |
|             |                |              |           | RB100#0               | 9.47                       | 13         | 8.10                           | Pass    |
|             |                |              | 16-QAM    | RB1#0                 | 9.8                        | 13         | 8.11                           | Pass    |
|             |                |              |           | RB100#0               | 10.12                      | 13         | 8.12                           | Pass    |
| LTE         | 20 MHz         | LCH          | QPSK      | RB1#0                 | 8.62                       | 13         | 9.1                            | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Peak to Average Ratio (dB) | Limit (dB) | Refer to Plot <sup>Note2</sup> | Verdict |      |
|-----------|----------------|--------------|-----------|-----------------------|----------------------------|------------|--------------------------------|---------|------|
| Band 41   |                |              | 16-QAM    | RB100#0               | 9.05                       | 13         | 9.2                            | Pass    |      |
|           |                |              |           | RB1#0                 | 9.23                       | 13         | 9.3                            | Pass    |      |
|           |                |              |           | RB100#0               | 9.7                        | 13         | 9.4                            | Pass    |      |
|           |                | MCH          | QPSK      | RB1#0                 | 9.05                       | 13         | 9.5                            | Pass    |      |
|           |                |              |           | RB100#0               | 9.42                       | 13         | 9.6                            | Pass    |      |
|           |                |              | 16-QAM    | RB1#0                 | 9.7                        | 13         | 9.7                            | Pass    |      |
|           |                |              |           | RB100#0               | 10.03                      | 13         | 9.8                            | Pass    |      |
|           |                |              | HCH       | QPSK                  | RB1#0                      | 8.67       | 13                             | 9.9     | Pass |
|           |                |              |           |                       | RB100#0                    | 9.33       | 13                             | 9.10    | Pass |
|           |                |              | 16-QAM    | RB1#0                 | 9.42                       | 13         | 9.11                           | Pass    |      |
|           |                |              |           | RB100#0               | 9.94                       | 13         | 9.12                           | Pass    |      |
|           |                | LTE Band 66  | 20 MHz    | LCH                   | QPSK                       | RB1#0      | 4.45                           | 13      | 10.1 |
| RB100#0   | 5.34           |              |           |                       |                            | 13         | 10.2                           | Pass    |      |
| 16-QAM    | RB1#0          |              |           |                       | 5.44                       | 13         | 10.3                           | Pass    |      |
|           | RB100#0        |              |           |                       | 6                          | 13         | 10.4                           | Pass    |      |
| MCH       | QPSK           |              |           | RB1#0                 | 4.92                       | 13         | 10.5                           | Pass    |      |
|           |                |              |           | RB100#0               | 5.58                       | 13         | 10.6                           | Pass    |      |
|           | 16-QAM         |              |           | RB1#0                 | 5.53                       | 13         | 10.7                           | Pass    |      |
|           |                |              |           | RB100#0               | 6.37                       | 13         | 10.8                           | Pass    |      |
| HCH       | QPSK           |              |           | RB1#0                 | 4.31                       | 13         | 10.9                           | Pass    |      |
|           |                |              |           | RB100#0               | 5.3                        | 13         | 10.10                          | Pass    |      |
|           | 16-QAM         |              |           | RB1#0                 | 5.2                        | 13         | 10.11                          | Pass    |      |
|           |                |              |           | RB100#0               | 6                          | 13         | 10.12                          | Pass    |      |

| Test Channel | Modulation | PCC RB |        | SCC RB |        | Peak to Average Ratio (dB) | Limit (dB) | Refer to Plot <sup>Note2</sup> | Verdict |
|--------------|------------|--------|--------|--------|--------|----------------------------|------------|--------------------------------|---------|
|              |            | Size   | Offset | Size   | Offset |                            |            |                                |         |
| <b>CA_7C</b> |            |        |        |        |        |                            |            |                                |         |
| 10MHz+20MHz  |            |        |        |        |        |                            |            |                                |         |
| Mid          | QPSK       | 50     | 0      | 100    | 0      | 6.23                       | 13         | 11.1                           | Pass    |
|              | 16-QAM     | 50     | 0      | 100    | 0      | 6.84                       | 13         | 11.2                           | Pass    |
| 20MHz+10MHz  |            |        |        |        |        |                            |            |                                |         |
| Mid          | QPSK       | 100    | 0      | 50     | 0      | 6.33                       | 13         | 11.3                           | Pass    |
|              | 16-QAM     | 100    | 0      | 50     | 0      | 6.89                       | 13         | 11.4                           | Pass    |
| 15MHz+15MHz  |            |        |        |        |        |                            |            |                                |         |
| Mid          | QPSK       | 75     | 0      | 75     | 0      | 6.42                       | 13         | 11.5                           | Pass    |
|              | 16-QAM     | 75     | 0      | 75     | 0      | 6.94                       | 13         | 11.6                           | Pass    |
| 15MHz+20MHz  |            |        |        |        |        |                            |            |                                |         |
| Mid          | QPSK       | 75     | 0      | 100    | 0      | 6.23                       | 13         | 11.7                           | Pass    |
|              | 16-QAM     | 75     | 0      | 100    | 0      | 6.84                       | 13         | 11.8                           | Pass    |
| 20MHz+15MHz  |            |        |        |        |        |                            |            |                                |         |
| Mid          | QPSK       | 100    | 0      | 75     | 0      | 6.19                       | 13         | 11.9                           | Pass    |
|              | 16-QAM     | 100    | 0      | 75     | 0      | 6.84                       | 13         | 11.10                          | Pass    |
| 20MHz+20MHz  |            |        |        |        |        |                            |            |                                |         |
| Mid          | QPSK       | 100    | 0      | 100    | 0      | 6.42                       | 13         | 11.11                          | Pass    |
|              | 16-QAM     | 100    | 0      | 100    | 0      | 6.94                       | 13         | 11.12                          | Pass    |

| Test Channel  | Modulation | PCC RB |        | SCC RB |        | Peak to Average Ratio (dB) | Limit (dB) | Refer to Plot <sup>Note2</sup> | Verdict |
|---------------|------------|--------|--------|--------|--------|----------------------------|------------|--------------------------------|---------|
|               |            | Size   | Offset | Size   | Offset |                            |            |                                |         |
| <b>CA_38C</b> |            |        |        |        |        |                            |            |                                |         |
| 15MHz+15MHz   |            |        |        |        |        |                            |            |                                |         |
| Mid           | QPSK       | 75     | 0      | 75     | 0      | 10.22                      | 13         | 12.1                           | Pass    |
|               | 16-QAM     | 75     | 0      | 75     | 0      | 10.64                      | 13         | 12.2                           | Pass    |
| 20MHz+20MHz   |            |        |        |        |        |                            |            |                                |         |
| Mid           | QPSK       | 100    | 0      | 100    | 0      | 9.89                       | 13         | 12.3                           | Pass    |
|               | 16-QAM     | 100    | 0      | 100    | 0      | 9.89                       | 13         | 12.4                           | Pass    |

| Test Channel       | Modulation | PCC RB |        | SCC RB |        | Peak to Average Ratio (dB) | Limit (dB) | Refer to Plot <sup>Note2</sup> | Verdict |
|--------------------|------------|--------|--------|--------|--------|----------------------------|------------|--------------------------------|---------|
|                    |            | Size   | Offset | Size   | Offset |                            |            |                                |         |
| <b>CA_41C</b>      |            |        |        |        |        |                            |            |                                |         |
| <b>5MHz+20MHz</b>  |            |        |        |        |        |                            |            |                                |         |
| Mid                | QPSK       | 25     | 0      | 100    | 0      | 10.27                      | 13         | 13.1                           | Pass    |
|                    | 16-QAM     | 25     | 0      | 100    | 0      | 10.83                      | 13         | 13.2                           | Pass    |
| <b>20MHz+5MHz</b>  |            |        |        |        |        |                            |            |                                |         |
| Mid                | QPSK       | 100    | 0      | 25     | 100    | 10.36                      | 13         | 13.3                           | Pass    |
|                    | 16-QAM     | 100    | 0      | 25     | 100    | 10.83                      | 13         | 13.4                           | Pass    |
| <b>10MHz+20MHz</b> |            |        |        |        |        |                            |            |                                |         |
| Mid                | QPSK       | 50     | 0      | 100    | 0      | 10.22                      | 13         | 13.5                           | Pass    |
|                    | 16-QAM     | 50     | 0      | 100    | 0      | 10.73                      | 13         | 13.6                           | Pass    |
| <b>20MHz+10MHz</b> |            |        |        |        |        |                            |            |                                |         |
| Mid                | QPSK       | 100    | 0      | 50     | 0      | 10.27                      | 13         | 13.7                           | Pass    |
|                    | 16-QAM     | 100    | 0      | 50     | 0      | 10.83                      | 13         | 13.8                           | Pass    |
| <b>15MHz+15MHz</b> |            |        |        |        |        |                            |            |                                |         |
| Mid                | QPSK       | 75     | 0      | 75     | 0      | 10.41                      | 13         | 13.9                           | Pass    |
|                    | 16-QAM     | 75     | 0      | 75     | 0      | 10.83                      | 13         | 13.10                          | Pass    |
| <b>15MHz+20MHz</b> |            |        |        |        |        |                            |            |                                |         |
| Mid                | QPSK       | 75     | 0      | 100    | 0      | 10.31                      | 13         | 13.11                          | Pass    |
|                    | 16-QAM     | 75     | 0      | 100    | 0      | 10.73                      | 13         | 13.12                          | Pass    |
| <b>20MHz+15MHz</b> |            |        |        |        |        |                            |            |                                |         |
| Mid                | QPSK       | 100    | 0      | 75     | 0      | 10.31                      | 13         | 13.13                          | Pass    |
|                    | 16-QAM     | 100    | 0      | 75     | 0      | 10.78                      | 13         | 13.14                          | Pass    |
| <b>20MHz+20MHz</b> |            |        |        |        |        |                            |            |                                |         |
| Mid                | QPSK       | 100    | 0      | 100    | 0      | 10.08                      | 13         | 13.15                          | Pass    |
|                    | 16-QAM     | 100    | 0      | 100    | 0      | 10.69                      | 13         | 13.16                          | 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-SZ2210380-501 Data Part 2.pdf".

#### GSM and WCDMA Mode Test Data

| Test Band    | Test Channel | Measured 99% Occupied Bandwidth (MHz) | Measured -26 dB Occupied Bandwidth (MHz) | Refer to Plot <sup>Note2</sup> |
|--------------|--------------|---------------------------------------|--|--------------------------------|
| GSM 850      | LCH          | 0.25                                  | 0.32                                     | 1.1                            |
|              | MCH          | 0.25                                  | 0.31                                     | 1.2                            |
|              | HCH          | 0.25                                  | 0.31                                     | 1.3                            |
| GSM 1900     | LCH          | 0.25                                  | 0.31                                     | 2.1                            |
|              | MCH          | 0.25                                  | 0.3                                      | 2.2                            |
|              | HCH          | 0.25                                  | 0.31                                     | 2.3                            |
| EGPRS 850    | LCH          | 0.24                                  | 0.31                                     | 3.1                            |
|              | MCH          | 0.25                                  | 0.32                                     | 3.2                            |
|              | HCH          | 0.25                                  | 0.31                                     | 3.3                            |
| EGPRS 1900   | LCH          | 0.25                                  | 0.31                                     | 4.1                            |
|              | MCH          | 0.25                                  | 0.31                                     | 4.2                            |
|              | HCH          | 0.25                                  | 0.31                                     | 4.3                            |
| WCDMA Band 2 | LCH          | 4.16                                  | 4.72                                     | 5.1                            |
|              | MCH          | 4.15                                  | 4.71                                     | 5.2                            |
|              | HCH          | 4.15                                  | 4.71                                     | 5.3                            |
| WCDMA Band 4 | LCH          | 4.16                                  | 4.72                                     | 6.1                            |
|              | MCH          | 4.15                                  | 4.71                                     | 6.2                            |
|              | HCH          | 4.15                                  | 4.71                                     | 6.3                            |
| WCDMA Band 5 | LCH          | 4.15                                  | 4.7                                      | 7.1                            |
|              | MCH          | 4.16                                  | 4.73                                     | 7.2                            |
|              | HCH          | 4.14                                  | 4.7                                      | 7.3                            |

## 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                 | 1.09                                  | 1.28                                     | 8.1                            |
|           |                |              | 16-QAM    | RB6#0                 | 1.09                                  | 1.3                                      | 8.2                            |
|           |                | MCH          | QPSK      | RB6#0                 | 1.09                                  | 1.28                                     | 8.3                            |
|           |                |              | 16-QAM    | RB6#0                 | 1.08                                  | 1.27                                     | 8.4                            |
|           |                | HCH          | QPSK      | RB6#0                 | 1.09                                  | 1.27                                     | 8.5                            |
|           |                |              | 16-QAM    | RB6#0                 | 1.09                                  | 1.27                                     | 8.6                            |
|           | 3 MHz          | LCH          | QPSK      | RB15#0                | 2.69                                  | 2.91                                     | 8.7                            |
|           |                |              | 16-QAM    | RB15#0                | 2.68                                  | 2.9                                      | 8.8                            |
|           |                | MCH          | QPSK      | RB15#0                | 2.69                                  | 2.92                                     | 8.9                            |
|           |                |              | 16-QAM    | RB15#0                | 2.69                                  | 2.91                                     | 8.10                           |
|           |                | HCH          | QPSK      | RB15#0                | 2.69                                  | 2.92                                     | 8.11                           |
|           |                |              | 16-QAM    | RB15#0                | 2.68                                  | 2.91                                     | 8.12                           |
|           | 5 MHz          | LCH          | QPSK      | RB25#0                | 4.5                                   | 4.93                                     | 8.13                           |
|           |                |              | 16-QAM    | RB25#0                | 4.48                                  | 4.9                                      | 8.14                           |
|           |                | MCH          | QPSK      | RB25#0                | 4.51                                  | 4.96                                     | 8.15                           |
|           |                |              | 16-QAM    | RB25#0                | 4.49                                  | 4.94                                     | 8.16                           |
|           |                | HCH          | QPSK      | RB25#0                | 4.49                                  | 4.93                                     | 8.17                           |
|           |                |              | 16-QAM    | RB25#0                | 4.49                                  | 4.95                                     | 8.18                           |
|           | 10 MHz         | LCH          | QPSK      | RB50#0                | 8.98                                  | 9.82                                     | 8.19                           |
|           |                |              | 16-QAM    | RB50#0                | 8.96                                  | 9.72                                     | 8.20                           |
|           |                | MCH          | QPSK      | RB50#0                | 8.95                                  | 9.72                                     | 8.21                           |
|           |                |              | 16-QAM    | RB50#0                | 8.96                                  | 9.7                                      | 8.22                           |
|           |                | HCH          | QPSK      | RB50#0                | 8.97                                  | 9.74                                     | 8.23                           |
|           |                |              | 16-QAM    | RB50#0                | 8.97                                  | 9.78                                     | 8.24                           |
|           | 15 MHz         | LCH          | QPSK      | RB75#0                | 13.45                                 | 14.64                                    | 8.25                           |
|           |                |              | 16-QAM    | RB75#0                | 13.47                                 | 14.7                                     | 8.26                           |
|           |                | MCH          | QPSK      | RB75#0                | 13.42                                 | 14.57                                    | 8.27                           |
|           |                |              | 16-QAM    | RB75#0                | 13.44                                 | 14.62                                    | 8.28                           |
|           |                | HCH          | QPSK      | RB75#0                | 13.44                                 | 14.62                                    | 8.29                           |
|           |                |              | 16-QAM    | RB75#0                | 13.44                                 | 14.6                                     | 8.30                           |
|           | 20 MHz         | LCH          | QPSK      | RB100#0               | 17.9                                  | 19.38                                    | 8.31                           |
|           |                |              | 16-QAM    | RB100#0               | 17.92                                 | 19.38                                    | 8.32                           |
|           |                | MCH          | QPSK      | RB100#0               | 17.9                                  | 19.31                                    | 8.33                           |
|           |                |              | 16-QAM    | RB100#0               | 17.88                                 | 19.4                                     | 8.34                           |
|           |                | HCH          | QPSK      | RB100#0               | 17.92                                 | 19.38                                    | 8.35                           |
|           |                |              | 16-QAM    | RB100#0               | 17.87                                 | 19.35                                    | 8.36                           |

| 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                 | 1.08                                  | 1.27                                     | 9.1                            |
|           |                |              | 16-QAM    | RB6#0                 | 1.09                                  | 1.3                                      | 9.2                            |
|           |                | MCH          | QPSK      | RB6#0                 | 1.09                                  | 1.28                                     | 9.3                            |
|           |                |              | 16-QAM    | RB6#0                 | 1.08                                  | 1.27                                     | 9.4                            |
|           |                | HCH          | QPSK      | RB6#0                 | 1.09                                  | 1.26                                     | 9.5                            |
|           |                |              | 16-QAM    | RB6#0                 | 1.09                                  | 1.27                                     | 9.6                            |
|           | 3 MHz          | LCH          | QPSK      | RB15#0                | 2.68                                  | 2.92                                     | 9.7                            |
|           |                |              | 16-QAM    | RB15#0                | 2.68                                  | 2.9                                      | 9.8                            |
|           |                | MCH          | QPSK      | RB15#0                | 2.68                                  | 2.92                                     | 9.9                            |
|           |                |              | 16-QAM    | RB15#0                | 2.68                                  | 2.92                                     | 9.10                           |
|           |                | HCH          | QPSK      | RB15#0                | 2.69                                  | 2.92                                     | 9.11                           |
|           |                |              | 16-QAM    | RB15#0                | 2.68                                  | 2.93                                     | 9.12                           |
|           | 5 MHz          | LCH          | QPSK      | RB25#0                | 4.49                                  | 4.93                                     | 9.13                           |
|           |                |              | 16-QAM    | RB25#0                | 4.48                                  | 4.89                                     | 9.14                           |
|           |                | MCH          | QPSK      | RB25#0                | 4.49                                  | 4.93                                     | 9.15                           |
|           |                |              | 16-QAM    | RB25#0                | 4.49                                  | 4.91                                     | 9.16                           |
|           |                | HCH          | QPSK      | RB25#0                | 4.48                                  | 4.9                                      | 9.17                           |
|           |                |              | 16-QAM    | RB25#0                | 4.49                                  | 4.92                                     | 9.18                           |
|           | 10 MHz         | LCH          | QPSK      | RB50#0                | 8.97                                  | 9.77                                     | 9.19                           |
|           |                |              | 16-QAM    | RB50#0                | 8.95                                  | 9.76                                     | 9.20                           |
|           |                | MCH          | QPSK      | RB50#0                | 8.95                                  | 9.8                                      | 9.21                           |
|           |                |              | 16-QAM    | RB50#0                | 8.96                                  | 9.71                                     | 9.22                           |
|           |                | HCH          | QPSK      | RB50#0                | 8.97                                  | 9.74                                     | 9.23                           |
|           |                |              | 16-QAM    | RB50#0                | 8.96                                  | 9.78                                     | 9.24                           |
|           | 15 MHz         | LCH          | QPSK      | RB75#0                | 13.44                                 | 14.66                                    | 9.25                           |
|           |                |              | 16-QAM    | RB75#0                | 13.42                                 | 14.64                                    | 9.26                           |
|           |                | MCH          | QPSK      | RB75#0                | 13.43                                 | 14.6                                     | 9.27                           |
|           |                |              | 16-QAM    | RB75#0                | 13.43                                 | 14.6                                     | 9.28                           |
|           |                | HCH          | QPSK      | RB75#0                | 13.43                                 | 14.57                                    | 9.29                           |
|           |                |              | 16-QAM    | RB75#0                | 13.45                                 | 14.61                                    | 9.30                           |
|           | 20 MHz         | LCH          | QPSK      | RB100#0               | 17.92                                 | 19.26                                    | 9.31                           |
|           |                |              | 16-QAM    | RB100#0               | 17.91                                 | 19.41                                    | 9.32                           |
|           |                | MCH          | QPSK      | RB100#0               | 17.88                                 | 19.32                                    | 9.33                           |
|           |                |              | 16-QAM    | RB100#0               | 17.92                                 | 19.48                                    | 9.34                           |
|           |                | HCH          | QPSK      | RB100#0               | 17.91                                 | 19.42                                    | 9.35                           |
|           |                |              | 16-QAM    | RB100#0               | 17.91                                 | 19.36                                    | 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 5    | 1.4 MHz        | LCH          | QPSK      | RB6#0                 | 1.09                                  | 1.29                                     | 10.1                           |
|           |                |              | 16-QAM    | RB6#0                 | 1.09                                  | 1.31                                     | 10.2                           |
|           |                | MCH          | QPSK      | RB6#0                 | 1.09                                  | 1.29                                     | 10.3                           |
|           |                |              | 16-QAM    | RB6#0                 | 1.08                                  | 1.26                                     | 10.4                           |
|           |                | HCH          | QPSK      | RB6#0                 | 1.09                                  | 1.26                                     | 10.5                           |
|           |                |              | 16-QAM    | RB6#0                 | 1.09                                  | 1.28                                     | 10.6                           |
|           | 3 MHz          | LCH          | QPSK      | RB15#0                | 2.69                                  | 2.91                                     | 10.7                           |
|           |                |              | 16-QAM    | RB15#0                | 2.69                                  | 2.93                                     | 10.8                           |
|           |                | MCH          | QPSK      | RB15#0                | 2.69                                  | 2.91                                     | 10.9                           |
|           |                |              | 16-QAM    | RB15#0                | 2.68                                  | 2.91                                     | 10.10                          |
|           |                | HCH          | QPSK      | RB15#0                | 2.69                                  | 2.92                                     | 10.11                          |
|           |                |              | 16-QAM    | RB15#0                | 2.68                                  | 2.92                                     | 10.12                          |
|           | 5 MHz          | LCH          | QPSK      | RB25#0                | 4.5                                   | 4.97                                     | 10.13                          |
|           |                |              | 16-QAM    | RB25#0                | 4.48                                  | 4.91                                     | 10.14                          |
|           |                | MCH          | QPSK      | RB25#0                | 4.49                                  | 4.92                                     | 10.15                          |
|           |                |              | 16-QAM    | RB25#0                | 4.49                                  | 4.93                                     | 10.16                          |
|           |                | HCH          | QPSK      | RB25#0                | 4.48                                  | 4.87                                     | 10.17                          |
|           |                |              | 16-QAM    | RB25#0                | 4.48                                  | 4.94                                     | 10.18                          |
|           | 10 MHz         | LCH          | QPSK      | RB50#0                | 8.96                                  | 9.8                                      | 10.19                          |
|           |                |              | 16-QAM    | RB50#0                | 8.95                                  | 9.74                                     | 10.20                          |
|           |                | MCH          | QPSK      | RB50#0                | 8.96                                  | 9.71                                     | 10.21                          |
|           |                |              | 16-QAM    | RB50#0                | 8.97                                  | 9.73                                     | 10.22                          |
|           |                | HCH          | QPSK      | RB50#0                | 8.97                                  | 9.76                                     | 10.23                          |
|           |                |              | 16-QAM    | RB50#0                | 8.95                                  | 9.82                                     | 10.24                          |

| 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                | 4.49                                  | 4.94                                     | 11.1                           |
|           |                |              | 16-QAM    | RB25#0                | 4.48                                  | 4.95                                     | 11.2                           |
|           |                | MCH          | QPSK      | RB25#0                | 4.49                                  | 4.93                                     | 11.3                           |
|           |                |              | 16-QAM    | RB25#0                | 4.5                                   | 4.94                                     | 11.4                           |
|           |                | HCH          | QPSK      | RB25#0                | 4.5                                   | 4.95                                     | 11.5                           |
|           |                |              | 16-QAM    | RB25#0                | 4.49                                  | 4.92                                     | 11.6                           |
|           | 10 MHz         | LCH          | QPSK      | RB50#0                | 8.98                                  | 9.88                                     | 11.7                           |
|           |                |              | 16-QAM    | RB50#0                | 8.97                                  | 9.73                                     | 11.8                           |
|           |                | MCH          | QPSK      | RB50#0                | 8.95                                  | 9.71                                     | 11.9                           |
|           |                |              | 16-QAM    | RB50#0                | 8.96                                  | 9.72                                     | 11.10                          |
|           |                | HCH          | QPSK      | RB50#0                | 8.96                                  | 9.75                                     | 11.11                          |
|           |                |              | 16-QAM    | RB50#0                | 8.97                                  | 9.79                                     | 11.12                          |
|           | 15 MHz         | LCH          | QPSK      | RB75#0                | 13.46                                 | 14.72                                    | 11.13                          |
|           |                |              | 16-QAM    | RB75#0                | 13.44                                 | 14.63                                    | 11.14                          |
|           |                | MCH          | QPSK      | RB75#0                | 13.42                                 | 14.61                                    | 11.15                          |
|           |                |              | 16-QAM    | RB75#0                | 13.46                                 | 14.57                                    | 11.16                          |
|           |                | HCH          | QPSK      | RB75#0                | 13.44                                 | 14.65                                    | 11.17                          |
|           |                |              | 16-QAM    | RB75#0                | 13.45                                 | 14.63                                    | 11.18                          |
|           | 20 MHz         | LCH          | QPSK      | RB100#0               | 17.92                                 | 19.43                                    | 11.19                          |
|           |                |              | 16-QAM    | RB100#0               | 17.95                                 | 19.43                                    | 11.20                          |
|           |                | MCH          | QPSK      | RB100#0               | 17.93                                 | 19.42                                    | 11.21                          |
|           |                |              | 16-QAM    | RB100#0               | 17.92                                 | 19.45                                    | 11.22                          |
|           |                | HCH          | QPSK      | RB100#0               | 17.9                                  | 19.49                                    | 11.23                          |
|           |                |              | 16-QAM    | RB100#0               | 17.92                                 | 19.47                                    | 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 38   | 5 MHz          | LCH          | QPSK      | RB25#0                | 4.51                                  | 5.2                                      | 12.1                           |
|           |                |              | 16-QAM    | RB25#0                | 4.49                                  | 5.05                                     | 12.2                           |
|           |                | MCH          | QPSK      | RB25#0                | 4.49                                  | 4.97                                     | 12.3                           |
|           |                |              | 16-QAM    | RB25#0                | 4.49                                  | 5.15                                     | 12.4                           |
|           |                | HCH          | QPSK      | RB25#0                | 4.5                                   | 4.98                                     | 12.5                           |
|           |                |              | 16-QAM    | RB25#0                | 4.49                                  | 5.21                                     | 12.6                           |
|           | 10 MHz         | LCH          | QPSK      | RB50#0                | 8.99                                  | 10.42                                    | 12.7                           |
|           |                |              | 16-QAM    | RB50#0                | 8.99                                  | 10.04                                    | 12.8                           |
|           |                | MCH          | QPSK      | RB50#0                | 8.98                                  | 10.23                                    | 12.9                           |
|           |                |              | 16-QAM    | RB50#0                | 8.96                                  | 9.97                                     | 12.10                          |
|           |                | HCH          | QPSK      | RB50#0                | 9                                     | 10.26                                    | 12.11                          |
|           |                |              | 16-QAM    | RB50#0                | 8.99                                  | 10.44                                    | 12.12                          |
|           | 15 MHz         | LCH          | QPSK      | RB75#0                | 13.5                                  | 15.53                                    | 12.13                          |
|           |                |              | 16-QAM    | RB75#0                | 13.5                                  | 15.56                                    | 12.14                          |
|           |                | MCH          | QPSK      | RB75#0                | 13.45                                 | 15.55                                    | 12.15                          |
|           |                |              | 16-QAM    | RB75#0                | 13.5                                  | 15.08                                    | 12.16                          |
|           |                | HCH          | QPSK      | RB75#0                | 13.43                                 | 15.57                                    | 12.17                          |
|           |                |              | 16-QAM    | RB75#0                | 13.53                                 | 16.87                                    | 12.18                          |
|           | 20 MHz         | LCH          | QPSK      | RB100#0               | 17.97                                 | 20.15                                    | 12.19                          |
|           |                |              | 16-QAM    | RB100#0               | 17.94                                 | 20.27                                    | 12.20                          |
|           |                | MCH          | QPSK      | RB100#0               | 17.93                                 | 20.25                                    | 12.21                          |
|           |                |              | 16-QAM    | RB100#0               | 17.95                                 | 21.99                                    | 12.22                          |
|           |                | HCH          | QPSK      | RB100#0               | 17.95                                 | 20.84                                    | 12.23                          |
|           |                |              | 16-QAM    | RB100#0               | 17.93                                 | 20.23                                    | 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 41   | 5 MHz          | LCH          | QPSK      | RB25#0                | 4.49                                  | 4.96                                     | 13.1                           |
|           |                |              | 16-QAM    | RB25#0                | 4.5                                   | 5.05                                     | 13.2                           |
|           |                | MCH          | QPSK      | RB25#0                | 4.5                                   | 5.02                                     | 13.3                           |
|           |                |              | 16-QAM    | RB25#0                | 4.48                                  | 5.08                                     | 13.4                           |
|           |                | HCH          | QPSK      | RB25#0                | 4.5                                   | 5.09                                     | 13.5                           |
|           |                |              | 16-QAM    | RB25#0                | 4.49                                  | 5.03                                     | 13.6                           |
|           | 10 MHz         | LCH          | QPSK      | RB50#0                | 8.99                                  | 10.3                                     | 13.7                           |
|           |                |              | 16-QAM    | RB50#0                | 9                                     | 10.04                                    | 13.8                           |
|           |                | MCH          | QPSK      | RB50#0                | 8.98                                  | 10.3                                     | 13.9                           |
|           |                |              | 16-QAM    | RB50#0                | 8.96                                  | 10.01                                    | 13.10                          |
|           |                | HCH          | QPSK      | RB50#0                | 9.01                                  | 10.8                                     | 13.11                          |
|           |                |              | 16-QAM    | RB50#0                | 8.99                                  | 10.32                                    | 13.12                          |
|           | 15 MHz         | LCH          | QPSK      | RB75#0                | 13.49                                 | 15.36                                    | 13.13                          |
|           |                |              | 16-QAM    | RB75#0                | 13.5                                  | 15.68                                    | 13.14                          |
|           |                | MCH          | QPSK      | RB75#0                | 13.43                                 | 15.54                                    | 13.15                          |
|           |                |              | 16-QAM    | RB75#0                | 13.52                                 | 16.16                                    | 13.16                          |
|           |                | HCH          | QPSK      | RB75#0                | 13.45                                 | 15.44                                    | 13.17                          |
|           |                |              | 16-QAM    | RB75#0                | 13.53                                 | 16.32                                    | 13.18                          |
|           | 20 MHz         | LCH          | QPSK      | RB100#0               | 17.97                                 | 19.92                                    | 13.19                          |
|           |                |              | 16-QAM    | RB100#0               | 17.94                                 | 20.18                                    | 13.20                          |
|           |                | MCH          | QPSK      | RB100#0               | 17.92                                 | 20.09                                    | 13.21                          |
|           |                |              | 16-QAM    | RB100#0               | 17.99                                 | 21.79                                    | 13.22                          |
|           |                | HCH          | QPSK      | RB100#0               | 17.98                                 | 20.68                                    | 13.23                          |
|           |                |              | 16-QAM    | RB100#0               | 17.92                                 | 20.72                                    | 13.24                          |

| 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 66   | 1.4 MHz        | LCH          | QPSK      | RB6#0                 | 1.08                                  | 1.28                                     | 14.1                           |
|           |                |              | 16-QAM    | RB6#0                 | 1.09                                  | 1.3                                      | 14.2                           |
|           |                | MCH          | QPSK      | RB6#0                 | 1.09                                  | 1.29                                     | 14.3                           |
|           |                |              | 16-QAM    | RB6#0                 | 1.08                                  | 1.27                                     | 14.4                           |
|           |                | HCH          | QPSK      | RB6#0                 | 1.09                                  | 1.26                                     | 14.5                           |
|           |                |              | 16-QAM    | RB6#0                 | 1.08                                  | 1.26                                     | 14.6                           |
|           | 3 MHz          | LCH          | QPSK      | RB15#0                | 2.69                                  | 2.92                                     | 14.7                           |
|           |                |              | 16-QAM    | RB15#0                | 2.68                                  | 2.92                                     | 14.8                           |
|           |                | MCH          | QPSK      | RB15#0                | 2.68                                  | 2.92                                     | 14.9                           |
|           |                |              | 16-QAM    | RB15#0                | 2.68                                  | 2.93                                     | 14.10                          |
|           |                | HCH          | QPSK      | RB15#0                | 2.69                                  | 2.92                                     | 14.11                          |
|           |                |              | 16-QAM    | RB15#0                | 2.68                                  | 2.92                                     | 14.12                          |
|           | 5 MHz          | LCH          | QPSK      | RB25#0                | 4.53                                  | 5.17                                     | 14.13                          |
|           |                |              | 16-QAM    | RB25#0                | 4.5                                   | 5.15                                     | 14.14                          |
|           |                | MCH          | QPSK      | RB25#0                | 4.5                                   | 5.14                                     | 14.15                          |
|           |                |              | 16-QAM    | RB25#0                | 4.52                                  | 5.17                                     | 14.16                          |
|           |                | HCH          | QPSK      | RB25#0                | 4.51                                  | 5.12                                     | 14.17                          |
|           |                |              | 16-QAM    | RB25#0                | 4.53                                  | 5.21                                     | 14.18                          |
|           | 10 MHz         | LCH          | QPSK      | RB50#0                | 8.99                                  | 10.13                                    | 14.19                          |
|           |                |              | 16-QAM    | RB50#0                | 8.98                                  | 10.04                                    | 14.20                          |
|           |                | MCH          | QPSK      | RB50#0                | 8.98                                  | 10.06                                    | 14.21                          |
|           |                |              | 16-QAM    | RB50#0                | 8.98                                  | 10.1                                     | 14.22                          |
|           |                | HCH          | QPSK      | RB50#0                | 8.99                                  | 10.12                                    | 14.23                          |
|           |                |              | 16-QAM    | RB50#0                | 9                                     | 10.15                                    | 14.24                          |
|           | 15 MHz         | LCH          | QPSK      | RB75#0                | 13.5                                  | 15.21                                    | 14.25                          |
|           |                |              | 16-QAM    | RB75#0                | 13.46                                 | 14.97                                    | 14.26                          |
|           |                | MCH          | QPSK      | RB75#0                | 13.45                                 | 15.08                                    | 14.27                          |
|           |                |              | 16-QAM    | RB75#0                | 13.47                                 | 15.07                                    | 14.28                          |
|           |                | HCH          | QPSK      | RB75#0                | 13.46                                 | 15.16                                    | 14.29                          |
|           |                |              | 16-QAM    | RB75#0                | 13.48                                 | 15.05                                    | 14.30                          |
|           | 20 MHz         | LCH          | QPSK      | RB100#0               | 17.94                                 | 19.78                                    | 14.31                          |
|           |                |              | 16-QAM    | RB100#0               | 17.97                                 | 19.86                                    | 14.32                          |
|           |                | MCH          | QPSK      | RB100#0               | 17.9                                  | 19.72                                    | 14.33                          |
|           |                |              | 16-QAM    | RB100#0               | 17.94                                 | 19.85                                    | 14.34                          |
|           |                | HCH          | QPSK      | RB100#0               | 17.98                                 | 19.93                                    | 14.35                          |
|           |                |              | 16-QAM    | RB100#0               | 17.92                                 | 19.66                                    | 14.36                          |



| Test Channel | Modulation | PCC RB |        | SCC RB |        | Measured 99% Occupied Bandwidth (MHz) | Measured - 26 dB Occupied Bandwidth (MHz) | Refer to Plot <sup>Note2</sup> |
|--------------|------------|--------|--------|--------|--------|---------------------------------------|---|--------------------------------|
|              |            | Size   | Offset | Size   | Offset |                                       |   |                                |
| <b>CA_7C</b> |            |        |        |        |        |                                       |   |                                |
| 10MHz+20MHz  |            |        |        |        |        |                                       |   |                                |
| Mid          | QPSK       | 50     | 0      | 100    | 0      | 27.88                                 | 29.68                                     | 15.1                           |
|              | 16-QAM     | 50     | 0      | 100    | 0      | 27.76                                 | 29.57                                     | 15.2                           |
| 20MHz+10MHz  |            |        |        |        |        |                                       |   |                                |
| Mid          | QPSK       | 100    | 0      | 50     | 0      | 27.88                                 | 29.72                                     | 15.3                           |
|              | 16-QAM     | 100    | 0      | 50     | 0      | 27.82                                 | 29.51                                     | 15.4                           |
| 15MHz+15MHz  |            |        |        |        |        |                                       |   |                                |
| Mid          | QPSK       | 75     | 0      | 75     | 0      | 28.43                                 | 30.64                                     | 15.5                           |
|              | 16-QAM     | 75     | 0      | 75     | 0      | 28.47                                 | 28.47                                     | 15.6                           |
| 15MHz+20MHz  |            |        |        |        |        |                                       |   |                                |
| Mid          | QPSK       | 75     | 0      | 100    | 0      | 32.76                                 | 34.91                                     | 15.7                           |
|              | 16-QAM     | 75     | 0      | 100    | 0      | 32.67                                 | 34.81                                     | 15.8                           |
| 20MHz+15MHz  |            |        |        |        |        |                                       |   |                                |
| Mid          | QPSK       | 100    | 0      | 75     | 0      | 32.73                                 | 34.86                                     | 15.9                           |
|              | 16-QAM     | 100    | 0      | 75     | 0      | 32.74                                 | 34.77                                     | 15.10                          |
| 20MHz+20MHz  |            |        |        |        |        |                                       |   |                                |
| Mid          | QPSK       | 100    | 0      | 100    | 0      | 37.72                                 | 40.07                                     | 15.11                          |
|              | 16-QAM     | 100    | 0      | 100    | 0      | 37.65                                 | 40.08                                     | 15.12                          |

| Test Channel  | Modulation | PCC RB |        | SCC RB |        | Measured 99% Occupied Bandwidth (MHz) | Measured - 26 dB Occupied Bandwidth (MHz) | Refer to Plot <sup>Note2</sup> |
|---------------|------------|--------|--------|--------|--------|---------------------------------------|---|--------------------------------|
|               |            | Size   | Offset | Size   | Offset |                                       |   |                                |
| <b>CA_38C</b> |            |        |        |        |        |                                       |   |                                |
| 15MHz+15MHz   |            |        |        |        |        |                                       |   |                                |
| Mid           | QPSK       | 75     | 0      | 75     | 0      | 28.42                                 | 32.1                                      | 16.1                           |
|               | 16-QAM     | 75     | 0      | 75     | 0      | 28.47                                 | 34.82                                     | 16.2                           |
| 20MHz+20MHz   |            |        |        |        |        |                                       |   |                                |
| Mid           | QPSK       | 100    | 0      | 100    | 0      | 37.81                                 | 42.89                                     | 16.3                           |
|               | 16-QAM     | 100    | 0      | 100    | 0      | 37.75                                 | 44.59                                     | 16.4                           |

| Test Channel  | Modulation | PCC RB |        | SCC RB |        | Measured 99% Occupied Bandwidth (MHz) | Measured - 26 dB Occupied Bandwidth (MHz) | Refer to Plot <sup>Note2</sup> |
|---------------|------------|--------|--------|--------|--------|---------------------------------------|---|--------------------------------|
|               |            | Size   | Offset | Size   | Offset |                                       |   |                                |
| <b>CA_41C</b> |            |        |        |        |        |                                       |   |                                |
| 5MHz+20MHz    |            |        |        |        |        |                                       |   |                                |
| Mid           | QPSK       | 25     | 0      | 100    | 0      | 23.01                                 | 25.5                                      | 17.1                           |
|               | 16-QAM     | 25     | 0      | 100    | 0      | 22.97                                 | 25.75                                     | 17.2                           |
| 20MHz+5MHz    |            |        |        |        |        |                                       |   |                                |
| Mid           | QPSK       | 100    | 0      | 25     | 0      | 23.07                                 | 25.84                                     | 17.3                           |
|               | 16-QAM     | 100    | 0      | 25     | 0      | 23.01                                 | 25.32                                     | 17.4                           |
| 10MHz+20MHz   |            |        |        |        |        |                                       |   |                                |
| Mid           | QPSK       | 50     | 0      | 100    | 0      | 27.87                                 | 31.65                                     | 17.5                           |
|               | 16-QAM     | 50     | 0      | 100    | 0      | 27.84                                 | 30.75                                     | 17.6                           |
| 20MHz+10MHz   |            |        |        |        |        |                                       |   |                                |
| Mid           | QPSK       | 100    | 0      | 50     | 0      | 27.97                                 | 32  | 17.7                           |
|               | 16-QAM     | 100    | 0      | 50     | 0      | 27.86                                 | 30.95                                     | 17.8                           |
| 15MHz+15MHz   |            |        |        |        |        |                                       |   |                                |
| Mid           | QPSK       | 75     | 0      | 75     | 0      | 28.48                                 | 32.81                                     | 17.9                           |
|               | 16-QAM     | 75     | 0      | 75     | 0      | 28.53                                 | 32.88                                     | 17.10                          |
| 15MHz+20MHz   |            |        |        |        |        |                                       |   |                                |
| Mid           | QPSK       | 75     | 0      | 100    | 0      | 32.82                                 | 36.68                                     | 17.11                          |
|               | 16-QAM     | 75     | 0      | 100    | 0      | 32.73                                 | 38.05                                     | 17.12                          |
| 20MHz+15MHz   |            |        |        |        |        |                                       |   |                                |
| Mid           | QPSK       | 100    | 0      | 75     | 0      | 32.84                                 | 38.17                                     | 17.13                          |
|               | 16-QAM     | 100    | 0      | 75     | 0      | 32.79                                 | 37.23                                     | 17.14                          |
| 20MHz+20MHz   |            |        |        |        |        |                                       |   |                                |
| Mid           | QPSK       | 100    | 0      | 100    | 0      | 37.81                                 | 44.55                                     | 17.15                          |
|               | 16-QAM     | 100    | 0      | 100    | 0      | 37.81                                 | 46.34                                     | 17.16                          |

## 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) |         |
| 3.87            | -30              | -12.95              | ±2060.5     | -6.26            | ±2091.5     | -8.36            | ±2122       | Pass    |
|                 | -20              | -12.14              |             | -7.59            |             | -11.4            |             |         |
|                 | -10              | -14.98              |             | -12.37           |             | -9.46            |             |         |
|                 | 0                | -13.82              |             | -12.3            |             | -6.26            |             |         |
|                 | 10               | -9.81               |             | -9.36            |             | -10.62           |             |         |
|                 | 20               | -11.4               |             | -12.95           |             | -11.82           |             |         |
|                 | 25               | -12.49              |             | -12.49           |             | -10.17           |             |         |
|                 | 30               | -8.78               |             | -9.36            |             | -6.52            |             |         |
|                 | 40               | -10.56              |             | -7.85            |             | -8.1             |             |         |
|                 | 50               | -9.56               |             | -8.65            |             | -5               |             |         |
| 4.45            | 25               | -8.01               |             | -8.49            |             | -9.27            |             |         |
| 3.6             | 25               | -10.65              |             | -9.1             |             | -7.68            |             |         |

## 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) |         |
| 3.87            | -30              | 9.56                | ±4625.5     | 12.75           | ±4700.0     | 11.07             | ±4774.5     | Pass    |
|                 | -20              | 8.27                |             | 9.78            |             | 8.39              |             |         |
|                 | -10              | 7.17                |             | 8.72            |             | -9.65             |             |         |
|                 | 0                | 9.3                 |             | 13.04           |             | 6.81              |             |         |
|                 | 10               | 9.85                |             | 13.5            |             | 9.23              |             |         |
|                 | 20               | 8.2                 |             | 6.78            |             | 9.94              |             |         |
|                 | 25               | 11.24               |             | 12.04           |             | 11.59             |             |         |
|                 | 30               | 12.4                |             | 9.78            |             | 6.42              |             |         |
|                 | 40               | 12.88               |             | 6.26            |             | 8.2               |             |         |
|                 | 50               | 10.43               |             | 10.14           |             | 5.59              |             |         |
| 4.45            | 25               | 10.98               |             | 12.82           |             | 12.53             |             |         |
| 3.6             | 25               | 9.72                |             | 9.81            |             | 8.98              |             |         |

## 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) |         |
| 3.87            | -30              | -11.33              | ±2060.5     | -11.75           | ±2091.5     | -8.78            | ±2122       | Pass    |
|                 | -20              | -11.27              |             | -10.88           |             | -14.37           |             |         |
|                 | -10              | -15.82              |             | -18.82           |             | -13.3            |             |         |
|                 | 0                | -13.79              |             | -11.82           |             | -9.62            |             |         |
|                 | 10               | -12.27              |             | -9.4             |             | -9.56            |             |         |
|                 | 20               | -14.17              |             | -12.43           |             | -14.56           |             |         |
|                 | 25               | -13.88              |             | -11.75           |             | -11.75           |             |         |
|                 | 30               | -9.98               |             | -15.72           |             | -10.04           |             |         |
|                 | 40               | -12.07              |             | -11.24           |             | -12.72           |             |         |
|                 | 50               | -12.98              |             | -13.01           |             | -13.01           |             |         |
| 4.45            | 25               | -14.08              |             | -15.88           |             | -13.01           |             |         |
| 3.6             | 25               | -17.66              |             | -18.31           |             | -14.14           |             |         |

## GPRS 1900

| 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) |         |
| 3.87            | -30              | -3.84               | ±4625.5     | 5.46             | ±4700.0     | 7.88             | ±4774.5     | Pass    |
|                 | -20              | -4.78               |             | -7.62            |             | -10.91           |             |         |
|                 | -10              | -12.3               |             | -13.08           |             | -12.62           |             |         |
|                 | 0                | -8.39               |             | 10.82            |             | -11.75           |             |         |
|                 | 10               | -4.16               |             | 7.52             |             | 8.01             |             |         |
|                 | 20               | 5.55                |             | 12.72            |             | 7.1              |             |         |
|                 | 25               | 6.2                 |             | -9.33            |             | -8.36            |             |         |
|                 | 30               | -13.85              |             | -4.78            |             | -8.49            |             |         |
|                 | 40               | 9.33                |             | 6.3              |             | 4.65             |             |         |
|                 | 50               | 10.43               |             | 5.71             |             | 12.75            |             |         |
| 4.45            | 25               | -5.36               |             | 8.81             |             | -9.78            |             |         |
| 3.6             | 25               | -10.59              |             | -17.14           |             | -14.98           |             |         |

## 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) |         |
| 3.87            | -30              | 8.85                | ±2060.5     | 10.2             | ±2091.5     | 8.36             | ±2122       | Pass    |
|                 | -20              | 7.59                |             | 8.3              |             | 4.88             |             |         |
|                 | -10              | -14.56              |             | -10.98           |             | -8.56            |             |         |
|                 | 0                | -10.2               |             | 6.23             |             | 9.85             |             |         |
|                 | 10               | 7.1                 |             | 7.01             |             | 4.49             |             |         |
|                 | 20               | 9.1                 |             | 9.01             |             | 5.62             |             |         |
|                 | 25               | 6.55                |             | 7.65             |             | 12.11            |             |         |
|                 | 30               | 7.49                |             | 8.49             |             | -10.65           |             |         |
|                 | 40               | 6.49                |             | 5.84             |             | -9.3             |             |         |
|                 | 50               | -8.27               |             | 10.88            |             | 7.81             |             |         |
| 4.45            | 25               | 4.97                |             | 10.49            |             | -4.75            |             |         |
| 3.6             | 25               | 9.98                |             | 3.55             |             | 6.62             |             |         |

## 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) |         |
| 3.87            | -30              | 7.01                | ±4625.5     | -6.91           | ±4700.0     | 9.33              | ±4774.5     | Pass    |
|                 | -20              | -11.85              |             | -15.3           |             | -13.37            |             |         |
|                 | -10              | -12.88              |             | -13.85          |             | -9.75             |             |         |
|                 | 0                | 10.85               |             | 10.78           |             | 11.56             |             |         |
|                 | 10               | 11.59               |             | 9.04            |             | 8.72              |             |         |
|                 | 20               | 7.49                |             | -7.3            |             | 8.23              |             |         |
|                 | 25               | 7.52                |             | 9.14            |             | 13.08             |             |         |
|                 | 30               | 12.88               |             | 10.65           |             | 7.2               |             |         |
|                 | 40               | 8.94                |             | -5.39           |             | 6.1               |             |         |
|                 | 50               | -9.17               |             | -6.3            |             | -11.04            |             |         |
| 4.45            | 25               | 5.62                |             | 9.1             |             | 8.98              |             |         |
| 3.6             | 25               | -8.62               |             | -10.53          |             | 9.23              |             |         |

## WCDMA Band 2

| 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) |         |
| 3.87            | -30              | -15.48              | ±4631       | -17.92          | ±4700       | -19.75            | ±4769       | Pass    |
|                 | -20              | -15.66              |             | -20.15          |             | -16.18            |             |         |
|                 | -10              | -10.26              |             | -11.59          |             | -15.46            |             |         |
|                 | 0                | -17.21              |             | -17.55          |             | -16.75            |             |         |
|                 | 10               | -17.84              |             | -17.27          |             | -21.26            |             |         |
|                 | 20               | -14.68              |             | -19.98          |             | -18.43            |             |         |
|                 | 25               | -14.76              |             | -22.06          |             | -18.65            |             |         |
|                 | 30               | -10.54              |             | -15.98          |             | -17.21            |             |         |
|                 | 40               | -13.61              |             | -19.64          |             | -17.14            |             |         |
|                 | 50               | -14.68              |             | -17.02          |             | -18.55            |             |         |
| 4.45            | 25               | -15.39              |             | -16.23          |             | -20.18            |             |         |
| 3.6             | 25               | -11.27              |             | -18.54          |             | -19.31            |             |         |

## WCDMA Band 4

| 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) |         |
| 3.87            | -30              | -17.39              | ±4281       | -14.95          | ±4331       | -15.61            | ±4381.5     | Pass    |
|                 | -20              | -12.3               |             | -15.04          |             | -17.33            |             |         |
|                 | -10              | -8.16               |             | -14.88          |             | -14.33            |             |         |
|                 | 0                | -12                 |             | -12.3           |             | -16.98            |             |         |
|                 | 10               | -20.18              |             | -14.68          |             | -17.41            |             |         |
|                 | 20               | -16.75              |             | -14.37          |             | -13.41            |             |         |
|                 | 25               | -13.52              |             | -14.45          |             | -13.63            |             |         |
|                 | 30               | -13.42              |             | -14.65          |             | -14.61            |             |         |
|                 | 40               | -12.86              |             | -13.7           |             | -15.05            |             |         |
|                 | 50               | -20.38              |             | -19.1           |             | -13               |             |         |
| 4.45            | 25               | -14.43              |             | -16.83          |             | -11.39            |             |         |
| 3.6             | 25               | -20.09              |             | -14.55          |             | -16.29            |             |         |

## WCDMA Band B5

| 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) |         |
| 3.87            | -30              | -11.9               | ±2066       | -16.87          | ±2091       | -17               | ±2116.5     | Pass    |
|                 | -20              | -12.66              |             | -15.07          |             | -14.82            |             |         |
|                 | -10              | -14.71              |             | -13.94          |             | -12.37            |             |         |
|                 | 0                | -10.19              |             | -14.96          |             | -16.96            |             |         |
|                 | 10               | -11.18              |             | -12.09          |             | -12.54            |             |         |
|                 | 20               | -10.15              |             | -15.08          |             | -14.69            |             |         |
|                 | 25               | -11.92              |             | -16.72          |             | -15.21            |             |         |
|                 | 30               | -10.51              |             | -15.88          |             | -13.4             |             |         |
|                 | 40               | -11.96              |             | -11.7           |             | -14.81            |             |         |
|                 | 50               | -14.07              |             | -12.47          |             | -15.56            |             |         |
| 4.45            | 25               | -14.2               |             | -12.07          |             | -10.97            |             |         |
| 3.6             | 25               | -10.45              |             | -11.71          |             | -11.04            |             |         |

## LTE Band 2 QPSK 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>1880 MHz     |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.87            | -30              | -11.89              | ±4700       | Pass    |
|                 | -20              | -10.89              |             |         |
|                 | -10              | -14.88              |             |         |
|                 | 0                | -5.61               |             |         |
|                 | 10               | -6.59               |             |         |
|                 | 20               | -7.62               |             |         |
|                 | 25               | -6.04               |             |         |
|                 | 30               | -7.62               |             |         |
|                 | 40               | -9.38               |             |         |
|                 | 50               | -5.32               |             |         |
| 4.45            | 25               | -12.85              |             |         |
| 3.6             | 25               | -7.87               |             |         |

## LTE Band 2 16QAM 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>1880 MHz     |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.87            | -30              | -3.42               | ±4700       | Pass    |
|                 | -20              | -7.04               |             |         |
|                 | -10              | -10.66              |             |         |
|                 | 0                | -9.58               |             |         |
|                 | 10               | -9.01               |             |         |
|                 | 20               | -3.63               |             |         |
|                 | 25               | -5.87               |             |         |
|                 | 30               | -7.38               |             |         |
|                 | 40               | -9.67               |             |         |
|                 | 50               | -9.47               |             |         |
| 4.45            | 25               | -4.13               |             |         |
| 3.6             | 25               | -10.96              |             |         |



## LTE Band 4 QPSK 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>1880 MHz     |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.87            | -30              | -6.82               | ±4331.25    | Pass    |
|                 | -20              | -3.59               |             |         |
|                 | -10              | -4.71               |             |         |
|                 | 0                | -5.19               |             |         |
|                 | 10               | -4.25               |             |         |
|                 | 20               | 3.29                |             |         |
|                 | 25               | -5.91               |             |         |
|                 | 30               | -7.04               |             |         |
|                 | 40               | -6.22               |             |         |
|                 | 50               | -4.23               |             |         |
| 4.45            | 25               | -6.15               |             |         |
| 3.6             | 25               | -2.06               |             |         |

## LTE Band 4 16QAM 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>1880 MHz     |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.87            | -30              | -6.04               | ±4331.25    | Pass    |
|                 | -20              | -3.35               |             |         |
|                 | -10              | -5.54               |             |         |
|                 | 0                | -3.73               |             |         |
|                 | 10               | -3.91               |             |         |
|                 | 20               | -2.65               |             |         |
|                 | 25               | -5.39               |             |         |
|                 | 30               | -2.35               |             |         |
|                 | 40               | -3.5                |             |         |
|                 | 50               | -6.29               |             |         |
| 4.45            | 25               | -10.29              |             |         |
| 3.6             | 25               | -4.32               |             |         |

## LTE Band 5 QPSK 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>1880 MHz     |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.87            | -30              | -3.42               | ±2091.25    | Pass    |
|                 | -20              | -5.36               |             |         |
|                 | -10              | -7.91               |             |         |
|                 | 0                | -7.5                |             |         |
|                 | 10               | -5.21               |             |         |
|                 | 20               | -7.65               |             |         |
|                 | 25               | -7.17               |             |         |
|                 | 30               | -3.78               |             |         |
|                 | 40               | -4.05               |             |         |
|                 | 50               | -4.06               |             |         |
| 4.45            | 25               | -7.82               |             |         |
| 3.6             | 25               | -7.45               |             |         |

## LTE Band 5 16QAM 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>1880 MHz     |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.87            | -30              | -5.54               | ±2091.25    | Pass    |
|                 | -20              | -7.97               |             |         |
|                 | -10              | -3.65               |             |         |
|                 | 0                | -7.22               |             |         |
|                 | 10               | -3.59               |             |         |
|                 | 20               | -9.37               |             |         |
|                 | 25               | -2.32               |             |         |
|                 | 30               | -4.76               |             |         |
|                 | 40               | -4.06               |             |         |
|                 | 50               | -4.86               |             |         |
| 4.45            | 25               | -8.2                |             |         |
| 3.6             | 25               | -10.7               |             |         |

## LTE Band 7 QPSK 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>1880 MHz     |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.87            | -30              | -5.56               | ±6337.5     | Pass    |
|                 | -20              | -4.31               |             |         |
|                 | -10              | -0.37               |             |         |
|                 | 0                | -9.04               |             |         |
|                 | 10               | -9.46               |             |         |
|                 | 20               | -8.47               |             |         |
|                 | 25               | -7.05               |             |         |
|                 | 30               | -12.46              |             |         |
|                 | 40               | -9.73               |             |         |
|                 | 50               | -6.37               |             |         |
| 4.45            | 25               | -5.92               |             |         |
| 3.6             | 25               | -8.58               |             |         |

## LTE Band 7 16-QAM 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>1880 MHz     |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.87            | -30              | -3.58               | ±6337.5     | Pass    |
|                 | -20              | 0.37                |             |         |
|                 | -10              | -6.02               |             |         |
|                 | 0                | -9.14               |             |         |
|                 | 10               | -3.15               |             |         |
|                 | 20               | -10.81              |             |         |
|                 | 25               | -5.21               |             |         |
|                 | 30               | -4.58               |             |         |
|                 | 40               | -5.44               |             |         |
|                 | 50               | -1.19               |             |         |
| 4.45            | 25               | -3.88               |             |         |
| 3.6             | 25               | -7.71               |             |         |

## LTE Band 38 QPSK 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>1880 MHz     |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.87            | -30              | -13.65              | ±6487.5     | Pass    |
|                 | -20              | -9.14               |             |         |
|                 | -10              | -6.79               |             |         |
|                 | 0                | -11.74              |             |         |
|                 | 10               | -11.79              |             |         |
|                 | 20               | -9.96               |             |         |
|                 | 25               | -11.24              |             |         |
|                 | 30               | -6.72               |             |         |
|                 | 40               | -6.84               |             |         |
|                 | 50               | -7.93               |             |         |
| 4.45            | 25               | -6.87               |             |         |
| 3.6             | 25               | -7.72               |             |         |

## LTE Band 38 16QAM10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>1880 MHz     |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.87            | -30              | -8.61               | ±6487.5     | Pass    |
|                 | -20              | -5.34               |             |         |
|                 | -10              | -8.64               |             |         |
|                 | 0                | 1.07                |             |         |
|                 | 10               | -10.8               |             |         |
|                 | 20               | -8.04               |             |         |
|                 | 25               | -10.9               |             |         |
|                 | 30               | -4.48               |             |         |
|                 | 40               | -5.92               |             |         |
|                 | 50               | -9.26               |             |         |
| 4.45            | 25               | -9.18               |             |         |
| 3.6             | 25               | -9.67               |             |         |

## LTE Band 41 QPSK 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>1880 MHz     |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.87            | -30              | -8.38               | ±6482.5     | Pass    |
|                 | -20              | -8.65               |             |         |
|                 | -10              | -4.11               |             |         |
|                 | 0                | -3.71               |             |         |
|                 | 10               | -5.66               |             |         |
|                 | 20               | -5.39               |             |         |
|                 | 25               | -5.19               |             |         |
|                 | 30               | -7.54               |             |         |
|                 | 40               | -5.64               |             |         |
|                 | 50               | -5.71               |             |         |
| 4.45            | 25               | -6.59               |             |         |
| 3.6             | 25               | -6.37               |             |         |

## LTE Band 41 16QAM10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>1880 MHz     |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.87            | -30              | -8.7                | ±6482.5     | Pass    |
|                 | -20              | -8.13               |             |         |
|                 | -10              | -8.03               |             |         |
|                 | 0                | -9.47               |             |         |
|                 | 10               | -8.5                |             |         |
|                 | 20               | -9.4                |             |         |
|                 | 25               | -6.34               |             |         |
|                 | 30               | -8.23               |             |         |
|                 | 40               | -7.71               |             |         |
|                 | 50               | -6.75               |             |         |
| 4.45            | 25               | -7.21               |             |         |
| 3.6             | 25               | -8.71               |             |         |

## LTE Band 66 QPSK 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>1880 MHz     |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.87            | -30              | -7.07               | ±4362.5     | Pass    |
|                 | -20              | -2.5                |             |         |
|                 | -10              | -6.01               |             |         |
|                 | 0                | -3.92               |             |         |
|                 | 10               | -4.31               |             |         |
|                 | 20               | -2.05               |             |         |
|                 | 25               | -1.9                |             |         |
|                 | 30               | -5.89               |             |         |
|                 | 40               | -8.6                |             |         |
|                 | 50               | -6.69               |             |         |
| 4.45            | 25               | -2.57               |             |         |
| 3.6             | 25               | -6.21               |             |         |

## LTE Band 66 16QAM10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>1880 MHz     |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.87            | -30              | -1.16               | ±4362.5     | Pass    |
|                 | -20              | -1.59               |             |         |
|                 | -10              | -5.06               |             |         |
|                 | 0                | -1.17               |             |         |
|                 | 10               | -4.32               |             |         |
|                 | 20               | -0.39               |             |         |
|                 | 25               | -2.07               |             |         |
|                 | 30               | -5.51               |             |         |
|                 | 40               | -2.33               |             |         |
|                 | 50               | -6.94               |             |         |
| 4.45            | 25               | -5.09               |             |         |
| 3.6             | 25               | 0.26                |             |         |

## CA\_7C QPSK 20MHz+10MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>2534.8 MHz   |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.87            | -30              | 1.3                 | ±6337       | Pass    |
|                 | -20              | -1.69               |             |         |
|                 | -10              | 0.09                |             |         |
|                 | 0                | -5.02               |             |         |
|                 | 10               | -2.79               |             |         |
|                 | 20               | -1.79               |             |         |
|                 | 25               | 2.56                |             |         |
|                 | 30               | 4.99                |             |         |
|                 | 40               | 1.42                |             |         |
|                 | 50               | -5.61               |             |         |
| 4.45            | 55               | 1.90                |             |         |
| 3.6             | 25               | 0.82                |             |         |

## CA\_7C 16QAM 20MHz+10MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>2534.8 MHz   |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.87            | -30              | -7.97               | ±6337       | Pass    |
|                 | -20              | -10.86              |             |         |
|                 | -10              | -7.6                |             |         |
|                 | 0                | -8.55               |             |         |
|                 | 10               | -3.43               |             |         |
|                 | 20               | -9.08               |             |         |
|                 | 25               | -7.4                |             |         |
|                 | 30               | -8.8                |             |         |
|                 | 40               | -6.77               |             |         |
|                 | 50               | -9.86               |             |         |
| 4.45            | 55               | -7.28               |             |         |
| 3.6             | 25               | -4.38               |             |         |

## CA\_7C QPSK 20MHz+20MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>2535 MHz     |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.87            | -30              | -7.95               | ±6337.5     | Pass    |
|                 | -20              | -2.37               |             |         |
|                 | -10              | -2.23               |             |         |
|                 | 0                | 0.16                |             |         |
|                 | 10               | -3.39               |             |         |
|                 | 20               | -3.36               |             |         |
|                 | 25               | -2.45               |             |         |
|                 | 30               | -4.84               |             |         |
|                 | 40               | -1.5                |             |         |
|                 | 50               | -5.76               |             |         |
| 4.45            | 55               | -6.14               |             |         |
| 3.6             | 25               | -1.37               |             |         |

## CA\_7C 16QAM 20MHz+20MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>2535 MHz     |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.87            | -30              | -4.45               | ±6337.5     | Pass    |
|                 | -20              | -3.71               |             |         |
|                 | -10              | -3.33               |             |         |
|                 | 0                | -9.07               |             |         |
|                 | 10               | -9.44               |             |         |
|                 | 20               | -8.25               |             |         |
|                 | 25               | -4.58               |             |         |
|                 | 30               | -3.22               |             |         |
|                 | 40               | -4.41               |             |         |
|                 | 50               | -4.09               |             |         |
| 4.45            | 55               | -4.6                |             |         |
| 3.6             | 25               | -4.07               |             |         |



## CA\_38C QPSK 15MHz+15MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>2595 MHz     |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.87            | -30              | -6.71               | ±6487.5     | Pass    |
|                 | -20              | -9.18               |             |         |
|                 | -10              | -8.21               |             |         |
|                 | 0                | -6.98               |             |         |
|                 | 10               | -6.97               |             |         |
|                 | 20               | -10.59              |             |         |
|                 | 25               | -7.9                |             |         |
|                 | 30               | -8.77               |             |         |
|                 | 40               | -9.96               |             |         |
|                 | 50               | -8.05               |             |         |
| 4.45            | 55               | -7.11               |             |         |
| 3.6             | 25               | -6.24               |             |         |

## CA\_38C 16QAM 15MHz+15MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>2595 MHz     |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.87            | -30              | -11.99              | ±6487.5     | Pass    |
|                 | -20              | -11.33              |             |         |
|                 | -10              | -9.94               |             |         |
|                 | 0                | -8.43               |             |         |
|                 | 10               | -9.27               |             |         |
|                 | 20               | -8.23               |             |         |
|                 | 25               | -10.21              |             |         |
|                 | 30               | -9.88               |             |         |
|                 | 40               | -9.77               |             |         |
|                 | 50               | -9.06               |             |         |
| 4.45            | 55               | -10.31              |             |         |
| 3.6             | 25               | -11.9               |             |         |

## CA\_38C QPSK 20MHz+20MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>2595 MHz     |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.87            | -30              | -3.45               | ±6487.5     | Pass    |
|                 | -20              | -4.35               |             |         |
|                 | -10              | -3.35               |             |         |
|                 | 0                | -5.16               |             |         |
|                 | 10               | -2.73               |             |         |
|                 | 20               | -3.88               |             |         |
|                 | 25               | -4.31               |             |         |
|                 | 30               | -3.12               |             |         |
|                 | 40               | -5.88               |             |         |
|                 | 50               | -5.99               |             |         |
| 4.45            | 55               | -2.98               |             |         |
| 3.6             | 25               | -4.82               |             |         |

## CA\_38C 16QAM 20MHz+20MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>2595 MHz     |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.87            | -30              | -7.37               | ±6487.5     | Pass    |
|                 | -20              | -7.9                |             |         |
|                 | -10              | -4.13               |             |         |
|                 | 0                | -4.09               |             |         |
|                 | 10               | -1.89               |             |         |
|                 | 20               | -2.9                |             |         |
|                 | 25               | -2.66               |             |         |
|                 | 30               | -2.53               |             |         |
|                 | 40               | -3.12               |             |         |
|                 | 50               | -3.55               |             |         |
| 4.45            | 55               | -4.42               |             |         |
| 3.6             | 25               | -0.86               |             |         |

## CA\_41C QPSK 20MHz+5MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>2592.6 MHz   |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.87            | -30              | -8.5                | ±6481.5     | Pass    |
|                 | -20              | -8.7                |             |         |
|                 | -10              | -3.66               |             |         |
|                 | 0                | -4.28               |             |         |
|                 | 10               | -5.98               |             |         |
|                 | 20               | -8.74               |             |         |
|                 | 25               | -8.77               |             |         |
|                 | 30               | -6.38               |             |         |
|                 | 40               | -7.17               |             |         |
|                 | 50               | -4.36               |             |         |
| 4.45            | 55               | -5.36               |             |         |
| 3.6             | 25               | -3.93               |             |         |

## CA\_41C 16QAM 20MHz+5MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>2592.6 MHz   |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.87            | -30              | -6.44               | ±6481.5     | Pass    |
|                 | -20              | -6.79               |             |         |
|                 | -10              | -4.86               |             |         |
|                 | 0                | -4.68               |             |         |
|                 | 10               | -4.51               |             |         |
|                 | 20               | -4.31               |             |         |
|                 | 25               | -3.4                |             |         |
|                 | 30               | -3.09               |             |         |
|                 | 40               | -3.36               |             |         |
|                 | 50               | -3.88               |             |         |
| 4.45            | 55               | -2.98               |             |         |
| 3.6             | 25               | -4.66               |             |         |

## CA\_41C QPSK 20MHz+20MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>2593 MHz     |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.87            | -30              | 0.56                | ±6482.5     | Pass    |
|                 | -20              | 0.1                 |             |         |
|                 | -10              | 0.09                |             |         |
|                 | 0                | 0.29                |             |         |
|                 | 10               | 0.47                |             |         |
|                 | 20               | 0.3                 |             |         |
|                 | 25               | -3.18               |             |         |
|                 | 30               | -2.72               |             |         |
|                 | 40               | -0.72               |             |         |
| 4.45            | 55               | -2.33               |             |         |
| 3.6             | 25               | -2.66               |             |         |

## CA\_41C 16QAM 20MHz+20MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>2593 MHz     |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.87            | -30              | -6.88               | ±6482.5     | Pass    |
|                 | -20              | -1.53               |             |         |
|                 | -10              | -2.56               |             |         |
|                 | 0                | -0.1                |             |         |
|                 | 10               | 0.5                 |             |         |
|                 | 20               | 1.24                |             |         |
|                 | 25               | 2.36                |             |         |
|                 | 30               | 0.77                |             |         |
|                 | 40               | 0.54                |             |         |
| 4.45            | 55               | -7.07               |             |         |
| 3.6             | 25               | -3.89               |             |         |

## 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 UE carrier frequency.

Note 3: Test plots please refer to the document "Annex No.: BL-SZ2210380-501 Data Part 3.pdf".

### GSM and WCDMA Mode Test Verdict

| 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    |
| WCDMA Band 2 | LCH          | 5.1                            | Pass    |
|              | MCH          | 5.2                            | Pass    |
|              | HCH          | 5.3                            | Pass    |
| WCDMA Band 4 | LCH          | 6.1                            | Pass    |
|              | MCH          | 6.2                            | Pass    |
|              | HCH          | 6.3                            | Pass    |
| WCDMA Band 5 | LCH          | 7.1                            | Pass    |
|              | MCH          | 7.2                            | Pass    |
|              | HCH          | 7.3                            | 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                 | 8.1                            | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.2                            | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 8.3                            | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.4                            | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 8.5                            | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.6                            | Pass    |
|           | 3 MHz          | LCH          | QPSK      | RB1#0                 | 8.7                            | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.8                            | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 8.9                            | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.10                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 8.11                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.12                           | Pass    |
|           | 5 MHz          | LCH          | QPSK      | RB1#0                 | 8.13                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.14                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 8.15                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.16                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 8.17                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.18                           | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                 | 8.19                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.20                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 8.21                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.22                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 8.23                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.24                           | Pass    |
|           | 15 MHz         | LCH          | QPSK      | RB1#0                 | 8.25                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.26                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 8.27                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.28                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 8.29                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.30                           | Pass    |
|           | 20 MHz         | LCH          | QPSK      | RB1#0                 | 8.31                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.32                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 8.33                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.34                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 8.35                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.36                           | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Refer to Plot <sup>Note3</sup> | Verdict |
|-----------|----------------|--------------|-----------|-----------------------|--------------------------------|---------|
| Band 4    | 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                 | 9.30                           | 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>Note3</sup> | Verdict |
|-----------|----------------|--------------|-----------|-----------------------|--------------------------------|---------|
| Band 5    | 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    |



| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Refer to Plot <sup>Note3</sup> | Verdict |
|-----------|----------------|--------------|-----------|-----------------------|--------------------------------|---------|
| Band 7    | 5 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    |
|           | 10 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    |
|           | 15 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    |
|           | 20 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>Note3</sup> | Verdict |
|-----------|----------------|--------------|-----------|-----------------------|--------------------------------|---------|
| Band 38   | 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>Note3</sup> | Verdict |
|-----------|----------------|--------------|-----------|-----------------------|--------------------------------|---------|
| Band 41   | 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    |
|           | 15 MHz         | LCH          | QPSK      | RB1#0                 | 13.13                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 13.14                          | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 13.15                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 13.16                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 13.17                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 13.18                          | Pass    |
|           | 20 MHz         | LCH          | QPSK      | RB1#0                 | 13.19                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 13.20                          | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 13.21                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 13.22                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 13.23                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 13.24                          | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Refer to Plot <sup>Note3</sup> | Verdict |
|-----------|----------------|--------------|-----------|-----------------------|--------------------------------|---------|
| Band 66   | 1.4 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    |
|           | 3 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    |
|           | 5 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    |
|           | 10 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    |
|           | 15 MHz         | LCH          | QPSK      | RB1#0                 | 14.25                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 14.26                          | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 14.27                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 14.28                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 14.29                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 14.30                          | Pass    |
|           | 20 MHz         | LCH          | QPSK      | RB1#0                 | 14.31                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 14.32                          | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 14.33                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 14.34                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 14.35                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 14.36                          | Pass    |

| Test Channel | Modulation | PCC RB |        | SCC RB |        | Refer to Plot <sup>Note2</sup> | Verdict |
|--------------|------------|--------|--------|--------|--------|--------------------------------|---------|
|              |            | Size   | Offset | Size   | Offset |                                |         |
| <b>CA_7C</b> |            |        |        |        |        |                                |         |
| 20MHz+10MHz  |            |        |        |        |        |                                |         |
| Low          | QPSK       | 1      | 99     | 1      | 0      | 15.1                           | Pass    |
|              | 16-QAM     | 1      | 99     | 1      | 0      | 15.2                           | Pass    |
| Mid          | QPSK       | 1      | 99     | 1      | 0      | 15.3                           | Pass    |
|              | 16-QAM     | 1      | 99     | 1      | 0      | 15.4                           | Pass    |
| High         | QPSK       | 1      | 99     | 1      | 0      | 15.5                           | Pass    |
|              | 16-QAM     | 1      | 99     | 1      | 0      | 15.6                           | Pass    |
| 20MHz+20MHz  |            |        |        |        |        |                                |         |
| Low          | QPSK       | 1      | 99     | 1      | 0      | 15.6                           | Pass    |
|              | 16-QAM     | 1      | 99     | 1      | 0      | 15.8                           | Pass    |
| Mid          | QPSK       | 1      | 99     | 1      | 0      | 15.9                           | Pass    |
|              | 16-QAM     | 1      | 99     | 1      | 0      | 15.10                          | Pass    |
| High         | QPSK       | 1      | 99     | 1      | 0      | 15.11                          | Pass    |
|              | 16-QAM     | 1      | 99     | 1      | 0      | 15.12                          | Pass    |

| Test Channel  | Modulation | PCC RB |        | SCC RB |        | Refer to Plot <sup>Note2</sup> | Verdict |
|---------------|------------|--------|--------|--------|--------|--------------------------------|---------|
|               |            | Size   | Offset | Size   | Offset |                                |         |
| <b>CA_38C</b> |            |        |        |        |        |                                |         |
| 15MHz+15MHz   |            |        |        |        |        |                                |         |
| Low           | QPSK       | 1      | 74     | 1      | 0      | 16.1                           | Pass    |
|               | 16-QAM     | 1      | 74     | 1      | 0      | 16.2                           | Pass    |
| Mid           | QPSK       | 1      | 74     | 1      | 0      | 16.3                           | Pass    |
|               | 16-QAM     | 1      | 74     | 1      | 0      | 16.4                           | Pass    |
| High          | QPSK       | 1      | 74     | 1      | 0      | 16.4                           | Pass    |
|               | 16-QAM     | 1      | 74     | 1      | 0      | 16.6                           | Pass    |
| 20MHz+20MHz   |            |        |        |        |        |                                |         |
| Low           | QPSK       | 1      | 99     | 1      | 0      | 16.7                           | Pass    |
|               | 16-QAM     | 1      | 99     | 1      | 0      | 16.8                           | Pass    |
| Mid           | QPSK       | 1      | 99     | 1      | 0      | 16.9                           | Pass    |
|               | 16-QAM     | 1      | 99     | 1      | 0      | 16.10                          | Pass    |
| High          | QPSK       | 1      | 99     | 1      | 0      | 16.11                          | Pass    |
|               | 16-QAM     | 1      | 99     | 1      | 0      | 16.12                          | Pass    |

| Test Channel  | Modulation | PCC RB |        | SCC RB |        | Refer to Plot <sup>Note2</sup> | Verdict |
|---------------|------------|--------|--------|--------|--------|--------------------------------|---------|
|               |            | Size   | Offset | Size   | Offset |                                |         |
| <b>CA_41C</b> |            |        |        |        |        |                                |         |
| 20MHz+5MHz    |            |        |        |        |        |                                |         |
| Low           | QPSK       | 1      | 99     | 1      | 0      | 17.1                           | Pass    |
|               | 16-QAM     | 1      | 99     | 1      | 0      | 17.2                           | Pass    |
| Mid           | QPSK       | 1      | 99     | 1      | 0      | 17.3                           | Pass    |
|               | 16-QAM     | 1      | 99     | 1      | 0      | 17.4                           | Pass    |
| High          | QPSK       | 1      | 99     | 1      | 0      | 17.5                           | Pass    |
|               | 16-QAM     | 1      | 99     | 1      | 0      | 17.6                           | Pass    |
| 20MHz+20MHz   |            |        |        |        |        |                                |         |
| Low           | QPSK       | 1      | 99     | 1      | 0      | 17.7                           | Pass    |
|               | 16-QAM     | 1      | 99     | 1      | 0      | 17.8                           | Pass    |
| Mid           | QPSK       | 1      | 99     | 1      | 0      | 17.9                           | Pass    |
|               | 16-QAM     | 1      | 99     | 1      | 0      | 17.10                          | Pass    |
| High          | QPSK       | 1      | 99     | 1      | 0      | 17.11                          | Pass    |
|               | 16-QAM     | 1      | 99     | 1      | 0      | 17.12                          | Pass    |

## A.6 Band Edge

Note 1: Test plots please refer to the document "Annex No.: BL-SZ2210380-501 Data Part 4.pdf".

GSM and WCDMA Mode Test Verdict

| 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    |
| WCDMA Band 2 | LCH          | 5.1                            | Pass    |
|              | HCH          | 5.2                            | Pass    |
| WCDMA Band 4 | LCH          | 6.1                            | Pass    |
|              | HCH          | 6.2                            | Pass    |
| WCDMA Band 5 | LCH          | 7.1                            | Pass    |
|              | HCH          | 7.2                            | 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                 | 8.1                            | Pass    |
|           |                |              |           | RB6#0                 | 8.2                            | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.3                            | Pass    |
|           |                |              |           | RB6#0                 | 8.4                            | Pass    |
|           |                | HCH          | QPSK      | RB1#5                 | 8.5                            | Pass    |
|           |                |              |           | RB6#0                 | 8.6                            | Pass    |
|           |                |              | 16-QAM    | RB1#5                 | 8.7                            | Pass    |
|           |                |              |           | RB6#0                 | 8.8                            | Pass    |
|           | 3 MHz          | LCH          | QPSK      | RB1#0                 | 8.9                            | Pass    |
|           |                |              |           | RB15#0                | 8.10                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.11                           | Pass    |
|           |                |              |           | RB15#0                | 8.12                           | Pass    |
|           |                | HCH          | QPSK      | RB1#14                | 8.13                           | Pass    |
|           |                |              |           | RB15#0                | 8.14                           | Pass    |
|           |                |              | 16-QAM    | RB1#14                | 8.15                           | Pass    |
|           |                |              |           | RB15#0                | 8.16                           | Pass    |
|           | 5 MHz          | LCH          | QPSK      | RB1#0                 | 8.17                           | Pass    |
|           |                |              |           | RB25#0                | 8.18                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.19                           | Pass    |
|           |                |              |           | RB25#0                | 8.20                           | Pass    |
|           |                | HCH          | QPSK      | RB1#24                | 8.21                           | Pass    |
|           |                |              |           | RB25#0                | 8.22                           | Pass    |
|           |                |              | 16-QAM    | RB1#24                | 8.23                           | Pass    |
|           |                |              |           | RB25#0                | 8.24                           | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                 | 8.25                           | Pass    |
|           |                |              |           | RB50#0                | 8.26                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.27                           | Pass    |
|           |                |              |           | RB50#0                | 8.28                           | Pass    |
|           |                | HCH          | QPSK      | RB1#49                | 8.29                           | Pass    |
|           |                |              |           | RB50#0                | 8.30                           | Pass    |
|           |                |              | 16-QAM    | RB1#49                | 8.31                           | Pass    |
|           |                |              |           | RB50#0                | 8.32                           | Pass    |
| 15 MHz    | LCH            | QPSK         | RB1#0     | 8.33                  | Pass                           |         |
|           |                |              | RB75#0    | 8.34                  | Pass                           |         |
|           |                | 16-QAM       | RB1#0     | 8.35                  | Pass                           |         |
|           |                |              | RB75#0    | 8.36                  | Pass                           |         |
|           | HCH            | QPSK         | RB1#74    | 8.37                  | Pass                           |         |
|           |                |              | RB75#0    | 8.38                  | Pass                           |         |
|           |                | 16-QAM       | RB1#74    | 8.39                  | Pass                           |         |
|           |                |              | RB75#0    | 8.40                  | Pass                           |         |
| 20 MHz    | LCH            | QPSK         | RB1#0     | 8.41                  | Pass                           |         |



| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Refer to Plot <sup>Note1</sup> | Verdict |
|-----------|----------------|--------------|-----------|-----------------------|--------------------------------|---------|
|           |                |              |           | RB100#0               | 8.42                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.43                           | Pass    |
|           |                |              |           | RB100#0               | 8.44                           | Pass    |
|           |                | HCH          | QPSK      | RB1#99                | 8.45                           | Pass    |
|           |                |              |           | RB100#0               | 8.46                           | Pass    |
|           |                |              | 16-QAM    | RB1#99                | 8.47                           | Pass    |
|           |                |              |           | RB100#0               | 8.48                           | 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                 | 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    |
|           | 20 MHz         | LCH          | QPSK      | RB1#0                 | 9.41                           | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Refer to Plot <sup>Note1</sup> | Verdict |
|-----------|----------------|--------------|-----------|-----------------------|--------------------------------|---------|
|           |                |              |           | 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 5    | 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                           |         |
|           |                |              | RB50#0    | 10.32                 | 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                 | 11.1                           | Pass    |
|           |                |              |           | RB25#0                | 11.2                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 11.3                           | Pass    |
|           |                |              |           | RB25#0                | 11.4                           | Pass    |
|           |                | HCH          | QPSK      | RB1#24                | 11.5                           | Pass    |
|           |                |              |           | RB25#0                | 11.6                           | Pass    |
|           |                |              | 16-QAM    | RB1#24                | 11.7                           | Pass    |
|           |                |              |           | RB25#0                | 11.8                           | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                 | 11.9                           | Pass    |
|           |                |              |           | RB50#0                | 11.10                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 11.11                          | Pass    |
|           |                |              |           | RB50#0                | 11.12                          | Pass    |
|           |                | HCH          | QPSK      | RB1#49                | 11.13                          | Pass    |
|           |                |              |           | RB50#0                | 11.14                          | Pass    |
|           |                |              | 16-QAM    | RB1#49                | 11.15                          | Pass    |
|           |                |              |           | RB50#0                | 11.16                          | Pass    |
|           | 15 MHz         | LCH          | QPSK      | RB1#0                 | 11.17                          | Pass    |
|           |                |              |           | RB75#0                | 11.18                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 11.19                          | Pass    |
|           |                |              |           | RB75#0                | 11.20                          | Pass    |
|           |                | HCH          | QPSK      | RB1#74                | 11.21                          | Pass    |
|           |                |              |           | RB75#0                | 11.22                          | Pass    |
|           |                |              | 16-QAM    | RB1#74                | 11.23                          | Pass    |
|           |                |              |           | RB75#0                | 11.24                          | Pass    |
|           | 20 MHz         | LCH          | QPSK      | RB1#0                 | 11.25                          | Pass    |
|           |                |              |           | RB100#0               | 11.26                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 11.27                          | Pass    |
|           |                |              |           | RB100#0               | 11.28                          | Pass    |
|           |                | HCH          | QPSK      | RB1#99                | 11.29                          | Pass    |
|           |                |              |           | RB100#0               | 11.30                          | Pass    |
|           |                |              | 16-QAM    | RB1#99                | 11.31                          | Pass    |
|           |                |              |           | RB100#0               | 11.32                          | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Refer to Plot <sup>Note1</sup> | Verdict |
|-----------|----------------|--------------|-----------|-----------------------|--------------------------------|---------|
| Band 38   | 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 41   | 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    |
|           | 15 MHz         | LCH          | QPSK      | RB1#0                 | 13.17                          | Pass    |
|           |                |              |           | RB75#0                | 13.18                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 13.19                          | Pass    |
|           |                |              |           | RB75#0                | 13.20                          | Pass    |
|           |                | HCH          | QPSK      | RB1#74                | 13.21                          | Pass    |
|           |                |              |           | RB75#0                | 13.22                          | Pass    |
|           |                |              | 16-QAM    | RB1#74                | 13.23                          | Pass    |
|           |                |              |           | RB75#0                | 13.24                          | Pass    |
|           | 20 MHz         | LCH          | QPSK      | RB1#0                 | 13.25                          | Pass    |
|           |                |              |           | RB100#0               | 13.26                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 13.27                          | Pass    |
|           |                |              |           | RB100#0               | 13.28                          | Pass    |
|           |                | HCH          | QPSK      | RB1#99                | 13.29                          | Pass    |
|           |                |              |           | RB100#0               | 13.30                          | Pass    |
|           |                |              | 16-QAM    | RB1#99                | 13.31                          | Pass    |
|           |                |              |           | RB100#0               | 13.32                          | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Refer to Plot <sup>Note1</sup> | Verdict |
|-----------|----------------|--------------|-----------|-----------------------|--------------------------------|---------|
| Band 66   | 1.4 MHz        | LCH          | QPSK      | RB1#0                 | 14.1                           | Pass    |
|           |                |              |           | RB6#0                 | 14.2                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 14.3                           | Pass    |
|           |                |              |           | RB6#0                 | 14.4                           | Pass    |
|           |                | HCH          | QPSK      | RB1#5                 | 14.5                           | Pass    |
|           |                |              |           | RB6#0                 | 14.6                           | Pass    |
|           |                | 16-QAM       | RB1#5     | 14.7                  | Pass                           |         |
|           |                |              | RB6#0     | 14.8                  | Pass                           |         |
|           | 3 MHz          | LCH          | QPSK      | RB1#0                 | 14.9                           | Pass    |
|           |                |              |           | RB15#0                | 14.10                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 14.11                          | Pass    |
|           |                |              |           | RB15#0                | 14.12                          | Pass    |
|           |                | HCH          | QPSK      | RB1#14                | 14.13                          | Pass    |
|           |                |              |           | RB15#0                | 14.14                          | Pass    |
|           |                | 16-QAM       | RB1#14    | 14.15                 | Pass                           |         |
|           |                |              | RB15#0    | 14.16                 | Pass                           |         |
|           | 5 MHz          | LCH          | QPSK      | RB1#0                 | 14.17                          | Pass    |
|           |                |              |           | RB25#0                | 14.18                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 14.19                          | Pass    |
|           |                |              |           | RB25#0                | 14.20                          | Pass    |
|           |                | HCH          | QPSK      | RB1#24                | 14.21                          | Pass    |
|           |                |              |           | RB25#0                | 14.22                          | Pass    |
|           |                | 16-QAM       | RB1#24    | 14.23                 | Pass                           |         |
|           |                |              | RB25#0    | 14.24                 | Pass                           |         |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                 | 14.25                          | Pass    |
|           |                |              |           | RB50#0                | 14.26                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 14.27                          | Pass    |
|           |                |              |           | RB50#0                | 14.28                          | Pass    |
|           |                | HCH          | QPSK      | RB1#49                | 14.29                          | Pass    |
|           |                |              |           | RB50#0                | 14.30                          | Pass    |
|           |                | 16-QAM       | RB1#49    | 14.31                 | Pass                           |         |
|           |                |              | RB50#0    | 14.32                 | Pass                           |         |
| 15 MHz    | LCH            | QPSK         | RB1#0     | 14.33                 | Pass                           |         |
|           |                |              | RB75#0    | 14.34                 | Pass                           |         |
|           |                | 16-QAM       | RB1#0     | 14.35                 | Pass                           |         |
|           |                |              | RB75#0    | 14.36                 | Pass                           |         |
|           | HCH            | QPSK         | RB1#74    | 14.37                 | Pass                           |         |
|           |                |              | RB75#0    | 14.38                 | Pass                           |         |
|           | 16-QAM         | RB1#74       | 14.39     | Pass                  |                                |         |
|           |                | RB75#0       | 14.40     | Pass                  |                                |         |
| 20 MHz    | LCH            | QPSK         | RB1#0     | 14.41                 | Pass                           |         |
|           |                |              | RB100#0   | 14.42                 | Pass                           |         |



| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Refer to Plot <sup>Note1</sup> | Verdict |
|-----------|----------------|--------------|-----------|-----------------------|--------------------------------|---------|
|           |                |              | 16-QAM    | RB1#0                 | 14.43                          | Pass    |
|           |                |              |           | RB100#0               | 14.44                          | Pass    |
|           |                | HCH          | QPSK      | RB1#99                | 14.45                          | Pass    |
|           |                |              |           | RB100#0               | 14.46                          | Pass    |
|           |                |              | 16-QAM    | RB1#99                | 14.47                          | Pass    |
|           |                |              |           | RB100#0               | 14.48                          | Pass    |

| Test Channel | Modulation | PCC RB |        | SCC RB |        | Refer to Plot <sup>Note2</sup> | Verdict |
|--------------|------------|--------|--------|--------|--------|--------------------------------|---------|
|              |            | Size   | Offset | Size   | Offset |                                |         |
| <b>CA_7C</b> |            |        |        |        |        |                                |         |
| 15MHz+15MHz  |            |        |        |        |        |                                |         |
| Low          | QPSK       | 1      | 0      | 1      | 0      | 15.1                           | Pass    |
|              |            | 1      | 0      | 1      | 49     | 15.2                           | Pass    |
|              |            | 100    | 0      | 50     | 0      | 15.3                           | Pass    |
|              | 16-QAM     | 1      | 0      | 1      | 0      | 15.4                           | Pass    |
|              |            | 1      | 0      | 1      | 49     | 15.5                           | Pass    |
|              |            | 100    | 0      | 50     | 0      | 15.6                           | Pass    |
| High         | QPSK       | 1      | 0      | 1      | 49     | 15.7                           | Pass    |
|              |            | 1      | 99     | 1      | 49     | 15.8                           | Pass    |
|              |            | 100    | 0      | 50     | 0      | 15.9                           | Pass    |
|              | 16-QAM     | 1      | 0      | 1      | 49     | 15.10                          | Pass    |
|              |            | 1      | 99     | 1      | 49     | 15.11                          | Pass    |
|              |            | 100    | 0      | 50     | 0      | 15.12                          | Pass    |
| 20MHz+20MHz  |            |        |        |        |        |                                |         |
| Low          | QPSK       | 1      | 0      | 1      | 0      | 15.13                          | Pass    |
|              |            | 1      | 0      | 1      | 99     | 15.14                          | Pass    |
|              |            | 100    | 0      | 100    | 0      | 15.15                          | Pass    |
|              | 16-QAM     | 1      | 0      | 1      | 0      | 15.16                          | Pass    |
|              |            | 1      | 0      | 1      | 99     | 15.17                          | Pass    |
|              |            | 100    | 0      | 100    | 0      | 15.18                          | Pass    |
| High         | QPSK       | 1      | 0      | 1      | 99     | 15.19                          | Pass    |
|              |            | 1      | 99     | 1      | 99     | 15.20                          | Pass    |
|              |            | 100    | 0      | 100    | 0      | 15.21                          | Pass    |
|              | 16-QAM     | 1      | 0      | 1      | 99     | 15.22                          | Pass    |
|              |            | 1      | 99     | 1      | 99     | 15.23                          | Pass    |
|              |            | 100    | 0      | 100    | 0      | 15.24                          | Pass    |

| Test Channel       | Modulation | PCC RB |        | SCC RB |        | Refer to Plot <sup>Note2</sup> | Verdict |
|--------------------|------------|--------|--------|--------|--------|--------------------------------|---------|
|                    |            | Size   | Offset | Size   | Offset |                                |         |
| <b>CA_38C</b>      |            |        |        |        |        |                                |         |
| <b>15MHz+15MHz</b> |            |        |        |        |        |                                |         |
| Low                | QPSK       | 1      | 0      | 1      | 0      | 16.1                           | Pass    |
|                    |            | 1      | 0      | 1      | 74     | 16.2                           | Pass    |
|                    |            | 75     | 0      | 75     | 0      | 16.3                           | Pass    |
|                    | 16-QAM     | 1      | 0      | 1      | 0      | 16.4                           | Pass    |
|                    |            | 1      | 0      | 1      | 74     | 16.5                           | Pass    |
|                    |            | 75     | 0      | 75     | 0      | 16.6                           | Pass    |
| High               | QPSK       | 1      | 0      | 1      | 74     | 16.7                           | Pass    |
|                    |            | 1      | 74     | 1      | 74     | 16.8                           | Pass    |
|                    |            | 75     | 0      | 75     | 0      | 16.9                           | Pass    |
|                    | 16-QAM     | 1      | 0      | 1      | 74     | 16.10                          | Pass    |
|                    |            | 1      | 74     | 1      | 74     | 16.11                          | Pass    |
|                    |            | 75     | 0      | 75     | 0      | 16.12                          | Pass    |
| <b>20MHz+20MHz</b> |            |        |        |        |        |                                |         |
| Low                | QPSK       | 1      | 0      | 1      | 0      | 16.13                          | Pass    |
|                    |            | 1      | 0      | 1      | 99     | 16.14                          | Pass    |
|                    |            | 100    | 0      | 100    | 0      | 16.15                          | Pass    |
|                    | 16-QAM     | 1      | 0      | 1      | 0      | 16.16                          | Pass    |
|                    |            | 1      | 0      | 1      | 99     | 16.17                          | Pass    |
|                    |            | 100    | 0      | 100    | 0      | 16.18                          | Pass    |
| High               | QPSK       | 1      | 0      | 1      | 99     | 16.19                          | Pass    |
|                    |            | 1      | 99     | 1      | 99     | 16.20                          | Pass    |
|                    |            | 100    | 0      | 100    | 0      | 16.21                          | Pass    |
|                    | 16-QAM     | 1      | 0      | 1      | 99     | 16.22                          | Pass    |
|                    |            | 1      | 99     | 1      | 99     | 16.23                          | Pass    |
|                    |            | 100    | 0      | 100    | 0      | 16.24                          | Pass    |

| Test Channel       | Modulation | PCC RB |        | SCC RB |        | Refer to Plot <sup>Note2</sup> | Verdict |
|--------------------|------------|--------|--------|--------|--------|--------------------------------|---------|
|                    |            | Size   | Offset | Size   | Offset |                                |         |
| <b>CA_41C</b>      |            |        |        |        |        |                                |         |
| <b>20MHz+5MHz</b>  |            |        |        |        |        |                                |         |
| Low                | QPSK       | 1      | 0      | 1      | 0      | 17.1                           | Pass    |
|                    |            | 1      | 0      | 1      | 24     | 17.2                           | Pass    |
|                    |            | 100    | 0      | 25     | 0      | 17.3                           | Pass    |
|                    | 16-QAM     | 1      | 0      | 1      | 0      | 17.4                           | Pass    |
|                    |            | 1      | 0      | 1      | 24     | 17.5                           | Pass    |
|                    |            | 100    | 0      | 25     | 0      | 17.6                           | Pass    |
| High               | QPSK       | 1      | 0      | 1      | 24     | 17.7                           | Pass    |
|                    |            | 1      | 99     | 1      | 24     | 17.8                           | Pass    |
|                    |            | 100    | 0      | 25     | 0      | 17.9                           | Pass    |
|                    | 16-QAM     | 1      | 0      | 1      | 24     | 17.10                          | Pass    |
|                    |            | 1      | 99     | 1      | 24     | 17.11                          | Pass    |
|                    |            | 100    | 0      | 25     | 0      | 17.12                          | Pass    |
| <b>20MHz+20MHz</b> |            |        |        |        |        |                                |         |
| Low                | QPSK       | 1      | 0      | 1      | 0      | 17.13                          | Pass    |
|                    |            | 1      | 0      | 1      | 99     | 17.14                          | Pass    |
|                    |            | 100    | 0      | 100    | 0      | 17.15                          | Pass    |
|                    | 16-QAM     | 1      | 0      | 1      | 0      | 17.16                          | Pass    |
|                    |            | 1      | 0      | 1      | 99     | 17.17                          | Pass    |
|                    |            | 100    | 0      | 100    | 0      | 17.18                          | Pass    |
| High               | QPSK       | 1      | 0      | 1      | 99     | 17.19                          | Pass    |
|                    |            | 1      | 99     | 1      | 99     | 17.20                          | Pass    |
|                    |            | 100    | 0      | 100    | 0      | 17.21                          | Pass    |
|                    | 16-QAM     | 1      | 0      | 1      | 99     | 17.22                          | Pass    |
|                    |            | 1      | 99     | 1      | 99     | 17.23                          | Pass    |
|                    |            | 100    | 0      | 100    | 0      | 17.24                          | 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 UE carrier frequency.

Note 3: Test plots please refer to the document "Annex No.: BL-SZ2210380-501 Data Part 5.pdf".

### Up Antenna

#### GSM and WCDMA Mode Test Verdict

| 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    |
| WCDMA Band 2 | LCH          | 5.1                            | Pass    |
|              | MCH          | 5.2                            | Pass    |
|              | HCH          | 5.3                            | Pass    |
| WCDMA Band 4 | LCH          | 6.1                            | Pass    |
|              | MCH          | 6.2                            | Pass    |
|              | HCH          | 6.3                            | Pass    |
| WCDMA Band 5 | LCH          | 7.1                            | Pass    |
|              | MCH          | 7.2                            | Pass    |
|              | HCH          | 7.3                            | 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                 | 8.1                            | Pass    |
|           | 3 MHz          | MCH          | QPSK      | RB1#0                 | 8.2                            | Pass    |
|           | 5 MHz          | MCH          | QPSK      | RB1#0                 | 8.3                            | Pass    |
|           | 10 MHz         | MCH          | QPSK      | RB1#0                 | 8.4                            | Pass    |
|           | 15 MHz         | MCH          | QPSK      | RB1#0                 | 8.5                            | Pass    |
|           | 20 MHz         | MCH          | QPSK      | RB1#0                 | 8.6                            | Pass    |
| Band 4    | 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 5    | 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    |
| Band 7    | 5 MHz          | MCH          | QPSK      | RB1#0                 | 11.1                           | Pass    |
|           | 10 MHz         | MCH          | QPSK      | RB1#0                 | 11.2                           | Pass    |
|           | 15 MHz         | MCH          | QPSK      | RB1#0                 | 11.3                           | Pass    |
|           | 20 MHz         | MCH          | QPSK      | RB1#0                 | 11.4                           | Pass    |
| Band 38   | 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 41   | 5 MHz          | MCH          | QPSK      | RB1#0                 | 13.1                           | Pass    |
|           | 10 MHz         | MCH          | QPSK      | RB1#0                 | 13.2                           | Pass    |
|           | 15 MHz         | MCH          | QPSK      | RB1#0                 | 13.3                           | Pass    |
|           | 20 MHz         | MCH          | QPSK      | RB1#0                 | 13.4                           | Pass    |
| Band 66   | 1.4 MHz        | MCH          | QPSK      | RB1#0                 | 14.1                           | Pass    |
|           | 3 MHz          | MCH          | QPSK      | RB1#0                 | 14.2                           | Pass    |
|           | 5 MHz          | MCH          | QPSK      | RB1#0                 | 14.3                           | Pass    |
|           | 10 MHz         | MCH          | QPSK      | RB1#0                 | 14.4                           | Pass    |
|           | 15 MHz         | MCH          | QPSK      | RB1#0                 | 14.5                           | Pass    |
|           | 20 MHz         | MCH          | QPSK      | RB1#0                 | 14.6                           | Pass    |

| Test Channel | Modulation | PCC RB |        | SCC RB |        | Refer to Plot <sup>Note2</sup> | Verdict |
|--------------|------------|--------|--------|--------|--------|--------------------------------|---------|
|              |            | Size   | Offset | Size   | Offset |                                |         |
| <b>CA_7C</b> |            |        |        |        |        |                                |         |
| 20MHz+10MHz  |            |        |        |        |        |                                |         |
| Low          | QPSK       | 1      | 99     | 1      | 0      | 15.1                           | Pass    |
|              | 16-QAM     | 1      | 99     | 1      | 0      | 15.2                           | Pass    |
| Mid          | QPSK       | 1      | 99     | 1      | 0      | 15.3                           | Pass    |
|              | 16-QAM     | 1      | 99     | 1      | 0      | 15.4                           | Pass    |
| High         | QPSK       | 1      | 99     | 1      | 0      | 15.5                           | Pass    |
|              | 16-QAM     | 1      | 99     | 1      | 0      | 15.6                           | Pass    |
| 20MHz+20MHz  |            |        |        |        |        |                                |         |
| Low          | QPSK       | 1      | 99     | 1      | 0      | 15.7                           | Pass    |
|              | 16-QAM     | 1      | 99     | 1      | 0      | 15.8                           | Pass    |
| Mid          | QPSK       | 1      | 99     | 1      | 0      | 15.9                           | Pass    |
|              | 16-QAM     | 1      | 99     | 1      | 0      | 15.10                          | Pass    |
| High         | QPSK       | 1      | 99     | 1      | 0      | 15.11                          | Pass    |
|              | 16-QAM     | 1      | 99     | 1      | 0      | 15.12                          | Pass    |

| Test Channel  | Modulation | PCC RB |        | SCC RB |        | Refer to Plot <sup>Note2</sup> | Verdict |
|---------------|------------|--------|--------|--------|--------|--------------------------------|---------|
|               |            | Size   | Offset | Size   | Offset |                                |         |
| <b>CA_38C</b> |            |        |        |        |        |                                |         |
| 15MHz+15MHz   |            |        |        |        |        |                                |         |
| Low           | QPSK       | 1      | 74     | 1      | 0      | 16.1                           | Pass    |
|               | 16-QAM     | 1      | 74     | 1      | 0      | 16.2                           | Pass    |
| Mid           | QPSK       | 1      | 74     | 1      | 0      | 16.3                           | Pass    |
|               | 16-QAM     | 1      | 74     | 1      | 0      | 16.4                           | Pass    |
| High          | QPSK       | 1      | 74     | 1      | 0      | 16.5                           | Pass    |
|               | 16-QAM     | 1      | 74     | 1      | 0      | 16.6                           | Pass    |
| 20MHz+20MHz   |            |        |        |        |        |                                |         |
| Low           | QPSK       | 1      | 99     | 1      | 0      | 16.7                           | Pass    |
|               | 16-QAM     | 1      | 99     | 1      | 0      | 16.8                           | Pass    |
| Mid           | QPSK       | 1      | 99     | 1      | 0      | 16.9                           | Pass    |
|               | 16-QAM     | 1      | 99     | 1      | 0      | 16.10                          | Pass    |
| High          | QPSK       | 1      | 99     | 1      | 0      | 16.11                          | Pass    |
|               | 16-QAM     | 1      | 99     | 1      | 0      | 16.12                          | Pass    |

| Test Channel  | Modulation | PCC RB |        | SCC RB |        | Refer to Plot <sup>Note2</sup> | Verdict |
|---------------|------------|--------|--------|--------|--------|--------------------------------|---------|
|               |            | Size   | Offset | Size   | Offset |                                |         |
| <b>CA_41C</b> |            |        |        |        |        |                                |         |
| 20MHz+5MHz    |            |        |        |        |        |                                |         |
| Low           | QPSK       | 1      | 99     | 1      | 0      | 17.1                           | Pass    |
|               | 16-QAM     | 1      | 99     | 1      | 0      | 17.2                           | Pass    |
| Mid           | QPSK       | 1      | 99     | 1      | 0      | 17.3                           | Pass    |
|               | 16-QAM     | 1      | 99     | 1      | 0      | 17.4                           | Pass    |
| High          | QPSK       | 1      | 99     | 1      | 0      | 17.5                           | Pass    |
|               | 16-QAM     | 1      | 99     | 1      | 0      | 17.6                           | Pass    |
| 20MHz+20MHz   |            |        |        |        |        |                                |         |
| Low           | QPSK       | 1      | 99     | 1      | 0      | 17.7                           | Pass    |
|               | 16-QAM     | 1      | 99     | 1      | 0      | 17.8                           | Pass    |
| Mid           | QPSK       | 1      | 99     | 1      | 0      | 17.9                           | Pass    |
|               | 16-QAM     | 1      | 99     | 1      | 0      | 17.10                          | Pass    |
| High          | QPSK       | 1      | 99     | 1      | 0      | 17.11                          | Pass    |
|               | 16-QAM     | 1      | 99     | 1      | 0      | 17.12                          | Pass    |



Down Antenna

## GSM and WCDMA Mode Test Verdict

| Test Band    | Test Channel | Refer to Plot <sup>Note3</sup> | Verdict |
|--------------|--------------|--------------------------------|---------|
| GSM 850      | LCH          | 18.1                           | Pass    |
|              | MCH          | 18.2                           | Pass    |
|              | HCH          | 18.3                           | Pass    |
| GSM 1900     | LCH          | 19.1                           | Pass    |
|              | MCH          | 19.2                           | Pass    |
|              | HCH          | 19.3                           | Pass    |
| EGPRS 850    | LCH          | 20.1                           | Pass    |
|              | MCH          | 20.2                           | Pass    |
|              | HCH          | 20.3                           | Pass    |
| EGPRS 1900   | LCH          | 21.1                           | Pass    |
|              | MCH          | 21.2                           | Pass    |
|              | HCH          | 21.3                           | Pass    |
| WCDMA Band 2 | LCH          | 22.1                           | Pass    |
|              | MCH          | 22.2                           | Pass    |
|              | HCH          | 22.3                           | Pass    |
| WCDMA Band 4 | LCH          | 23.1                           | Pass    |
|              | MCH          | 23.2                           | Pass    |
|              | HCH          | 23.3                           | Pass    |
| WCDMA Band 5 | LCH          | 24.1                           | Pass    |
|              | MCH          | 24.2                           | Pass    |
|              | HCH          | 24.3                           | 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                 | 25.1                           | Pass    |
|           | 3 MHz          | MCH          | QPSK      | RB1#0                 | 25.2                           | Pass    |
|           | 5 MHz          | MCH          | QPSK      | RB1#0                 | 25.3                           | Pass    |
|           | 10 MHz         | MCH          | QPSK      | RB1#0                 | 25.4                           | Pass    |
|           | 15 MHz         | MCH          | QPSK      | RB1#0                 | 25.5                           | Pass    |
|           | 20 MHz         | MCH          | QPSK      | RB1#0                 | 25.6                           | Pass    |
| Band 4    | 1.4 MHz        | MCH          | QPSK      | RB1#0                 | 26.1                           | Pass    |
|           | 3 MHz          | MCH          | QPSK      | RB1#0                 | 26.2                           | Pass    |
|           | 5 MHz          | MCH          | QPSK      | RB1#0                 | 26.3                           | Pass    |
|           | 10 MHz         | MCH          | QPSK      | RB1#0                 | 26.4                           | Pass    |
|           | 15 MHz         | MCH          | QPSK      | RB1#0                 | 26.5                           | Pass    |
|           | 20 MHz         | MCH          | QPSK      | RB1#0                 | 26.6                           | Pass    |
| Band 5    | 1.4 MHz        | MCH          | QPSK      | RB1#0                 | 27.1                           | Pass    |
|           | 3 MHz          | MCH          | QPSK      | RB1#0                 | 27.2                           | Pass    |
|           | 5 MHz          | MCH          | QPSK      | RB1#0                 | 27.3                           | Pass    |
|           | 10 MHz         | MCH          | QPSK      | RB1#0                 | 27.4                           | Pass    |
| Band 7    | 1.4 MHz        | MCH          | QPSK      | RB1#0                 | 28.1                           | Pass    |
|           | 3 MHz          | MCH          | QPSK      | RB1#0                 | 28.2                           | Pass    |
|           | 5 MHz          | MCH          | QPSK      | RB1#0                 | 28.3                           | Pass    |
|           | 10 MHz         | MCH          | QPSK      | RB1#0                 | 28.4                           | Pass    |
| Band 38   | 5 MHz          | MCH          | QPSK      | RB1#0                 | 29.1                           | Pass    |
|           | 10 MHz         | MCH          | QPSK      | RB1#0                 | 29.2                           | Pass    |
|           | 15 MHz         | MCH          | QPSK      | RB1#0                 | 29.3                           | Pass    |
|           | 20 MHz         | MCH          | QPSK      | RB1#0                 | 29.4                           | Pass    |
| Band 41   | 5 MHz          | MCH          | QPSK      | RB1#0                 | 30.1                           | Pass    |
|           | 10 MHz         | MCH          | QPSK      | RB1#0                 | 30.2                           | Pass    |
|           | 15 MHz         | MCH          | QPSK      | RB1#0                 | 30.3                           | Pass    |
|           | 20 MHz         | MCH          | QPSK      | RB1#0                 | 30.4                           | Pass    |
| Band 66   | 1.4 MHz        | MCH          | QPSK      | RB1#0                 | 31.1                           | Pass    |
|           | 3 MHz          | MCH          | QPSK      | RB1#0                 | 31.2                           | Pass    |
|           | 5 MHz          | MCH          | QPSK      | RB1#0                 | 31.3                           | Pass    |
|           | 10 MHz         | MCH          | QPSK      | RB1#0                 | 31.4                           | Pass    |
|           | 15 MHz         | MCH          | QPSK      | RB1#0                 | 31.5                           | Pass    |
|           | 20 MHz         | MCH          | QPSK      | RB1#0                 | 31.6                           | Pass    |

| Test Channel | Modulation | PCC RB |        | SCC RB |        | Refer to Plot <sup>Note2</sup> | Verdict |
|--------------|------------|--------|--------|--------|--------|--------------------------------|---------|
|              |            | Size   | Offset | Size   | Offset |                                |         |
| <b>CA_7C</b> |            |        |        |        |        |                                |         |
| 20MHz+10MHz  |            |        |        |        |        |                                |         |
| Low          | QPSK       | 1      | 99     | 1      | 0      | 32.1                           | Pass    |
|              | 16-QAM     | 1      | 99     | 1      | 0      | 32.2                           | Pass    |
| Mid          | QPSK       | 1      | 99     | 1      | 0      | 32.3                           | Pass    |
|              | 16-QAM     | 1      | 99     | 1      | 0      | 32.4                           | Pass    |
| High         | QPSK       | 1      | 99     | 1      | 0      | 32.5                           | Pass    |
|              | 16-QAM     | 1      | 99     | 1      | 0      | 32.6                           | Pass    |
| 20MHz+20MHz  |            |        |        |        |        |                                |         |
| Low          | QPSK       | 1      | 99     | 1      | 0      | 32.7                           | Pass    |
|              | 16-QAM     | 1      | 99     | 1      | 0      | 32.8                           | Pass    |
| Mid          | QPSK       | 1      | 99     | 1      | 0      | 32.9                           | Pass    |
|              | 16-QAM     | 1      | 99     | 1      | 0      | 32.10                          | Pass    |
| High         | QPSK       | 1      | 99     | 1      | 0      | 32.11                          | Pass    |
|              | 16-QAM     | 1      | 99     | 1      | 0      | 32.12                          | Pass    |

| Test Channel  | Modulation | PCC RB |        | SCC RB |        | Refer to Plot <sup>Note2</sup> | Verdict |
|---------------|------------|--------|--------|--------|--------|--------------------------------|---------|
|               |            | Size   | Offset | Size   | Offset |                                |         |
| <b>CA_38C</b> |            |        |        |        |        |                                |         |
| 15MHz+15MHz   |            |        |        |        |        |                                |         |
| Low           | QPSK       | 1      | 74     | 1      | 0      | 33.1                           | Pass    |
|               | 16-QAM     | 1      | 74     | 1      | 0      | 33.2                           | Pass    |
| Mid           | QPSK       | 1      | 74     | 1      | 0      | 33.3                           | Pass    |
|               | 16-QAM     | 1      | 74     | 1      | 0      | 33.4                           | Pass    |
| High          | QPSK       | 1      | 74     | 1      | 0      | 33.5                           | Pass    |
|               | 16-QAM     | 1      | 74     | 1      | 0      | 33.6                           | Pass    |
| 20MHz+20MHz   |            |        |        |        |        |                                |         |
| Low           | QPSK       | 1      | 99     | 1      | 0      | 33.7                           | Pass    |
|               | 16-QAM     | 1      | 99     | 1      | 0      | 33.8                           | Pass    |
| Mid           | QPSK       | 1      | 99     | 1      | 0      | 33.9                           | Pass    |
|               | 16-QAM     | 1      | 99     | 1      | 0      | 33.10                          | Pass    |
| High          | QPSK       | 1      | 99     | 1      | 0      | 33.11                          | Pass    |
|               | 16-QAM     | 1      | 99     | 1      | 0      | 33.12                          | Pass    |

| Test Channel  | Modulation | PCC RB |        | SCC RB |        | Refer to Plot <sup>Note2</sup> | Verdict |
|---------------|------------|--------|--------|--------|--------|--------------------------------|---------|
|               |            | Size   | Offset | Size   | Offset |                                |         |
| <b>CA_41C</b> |            |        |        |        |        |                                |         |
| 20MHz+5MHz    |            |        |        |        |        |                                |         |
| Low           | QPSK       | 1      | 99     | 1      | 0      | 34.1                           | Pass    |
|               | 16-QAM     | 1      | 99     | 1      | 0      | 34.2                           | Pass    |
| Mid           | QPSK       | 1      | 99     | 1      | 0      | 34.3                           | Pass    |
|               | 16-QAM     | 1      | 99     | 1      | 0      | 34.4                           | Pass    |
| High          | QPSK       | 1      | 99     | 1      | 0      | 34.5                           | Pass    |
|               | 16-QAM     | 1      | 99     | 1      | 0      | 34.6                           | Pass    |
| 20MHz+20MHz   |            |        |        |        |        |                                |         |
| Low           | QPSK       | 1      | 99     | 1      | 0      | 34.7                           | Pass    |
|               | 16-QAM     | 1      | 99     | 1      | 0      | 34.8                           | Pass    |
| Mid           | QPSK       | 1      | 99     | 1      | 0      | 34.9                           | Pass    |
|               | 16-QAM     | 1      | 99     | 1      | 0      | 34.10                          | Pass    |
| High          | QPSK       | 1      | 99     | 1      | 0      | 34.11                          | Pass    |
|               | 16-QAM     | 1      | 99     | 1      | 0      | 34.12                          | Pass    |

## **ANNEX B TEST SETUP PHOTOS**

Please refer to the document "BL-SZ2210380-AR.PDF".

## **ANNEX C EUT EXTERNAL PHOTOS**

Please refer to the document "BL-SZ2210380-AW.PDF".

## **ANNEX D EUT INTERNAL PHOTOS**

Please refer to the document "BL-SZ2210380-AI.PDF".

--END OF REPORT--