



# FCC Test Report

## FCC ID: 2AJDD-IDIAGSF9S1

Applicant: SHENZHEN FCAR TECHNOLOGY CO.,LTD  
Address: 8th Floor, Chuangyi Building, No. 3025 Nanhai Ave., Nanshan, Shenzhen, Guangdong, China 518060  
Manufacturer: SHENZHEN FCAR TECHNOLOGY CO.,LTD  
Address: 8th Floor, Chuangyi Building, No. 3025 Nanhai Ave., Nanshan, Shenzhen, Guangdong, China 518060  
EUT: Auto Diagnostic System  
Trade Mark: FCAR  
Model Number: F9S, F9S-D, F9S-G, F9S-W, F9S-M, F9S-E, F9S-N, F9S-A, F9S-L, F9S Pro  
Date of Receipt: Aug. 12, 2023  
Test Date: Aug. 12, 2023 - Aug. 24, 2023  
Date of Report: Aug. 24, 2023  
Prepared By: Shenzhen DL Testing Technology Co., Ltd.  
Address: 101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone, Baolong Street, Longgang District, Shenzhen, Guangdong, China  
Applicable Standards: FCC CFR Title 47 Part22 Subpart H  
FCC CFR Title 47 Part24 Subpart E  
FCC CFR Title 47 Part27 Subpart E  
ANSI/ TIA/ EIA-603-E-2016  
FCC KDB 971168 D01 Power Meas. License Digital Systems v02v02  
ANSI C63.26:2015  
Test Result: Pass  
Report Number: DL-20230824053E

Prepared (Test Engineer): Pxing Huang  
Reviewer (Supervisor): Jack Bu  
Approved (Manager): Jade Yang



This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.

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**1. TEST SUMMARY**

| Test Items                            | Test Requirement& band                                                                                                 | Result |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------|--------|
| Conducted RF Output Power             | 2.1046(band 2, band 4, band 5, band 12, band 13, band 25, band 66)                                                     | PASS*  |
| Peak to Average Ratio                 | 2.1055,22.355(band 5) 24.235(band 2, band 4, band 25, band 66),27.54(band 12, band 13)                                 | PASS*  |
| 99% & -26 dB Occupied Bandwidth       | 2.1049,<br>22.917(band 5)<br>24.238, (band 2, band 4, band 25, band 66)<br>27.53(band 12, band 13)                     | PASS*  |
| Frequency Stability                   | 2.1055,<br>22.355(band 5)<br>24.235, (band 2, band 4, band 25, band 66)<br>27.54(band 12, band 13)                     | PASS*  |
| Conducted Out of Band Emissions       | 2.1051,2.1057<br>22.917, (band 5)<br>24.238(band 2, band 4, band 25, band 66)<br>27.53(h) /27.53(m) (band 12, band 13) | PASS*  |
| Band Edge                             | 2.1051,2.1057<br>22.917, (band 5)<br>24.238(band 2, band 4, band 25, band 66)<br>27.53(h) /27.53(m) (band 12, band 13) | PASS*  |
| Transmitter Radiated Power (EIPR/ERP) | 22.913, (band 5)<br>24.232(band 2, band 4, band 25, band 66)<br>27.50(d)(4)/27.50(h)(2) (band 12, band 13)             | PASS   |
| Radiated Out of Band Emissions        | 2.1053,2.1057<br>22.917(band 5),<br>24.238(band 2, band 4, band 25, band 66)<br>27.53(g) (band 12) /27.53(c) (band 13) | PASS   |

\*:The module of the modified product has complete certification, and the data reference module ID is 2AJYU-8PYA007



## 2. GENERAL PRODUCT INFORMATION

### 2.1. Description of Device (EUT)

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:          | Auto Diagnostic System                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Trademark              | FCAR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Model No.:             | F9S, F9S-D, F9S-G, F9S-W, F9S-M, F9S-E, F9S-N, F9S-A, F9S-L, F9S Pro                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Model Difference       | The product's different for model number and appearance color.                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Operation Frequency:   | LTE Band 2:<br>Tx: 1850.00 - 1910.00MHz; Rx: 1930.00 - 1990.00MHz<br>LTE Band 4:<br>Tx: 1710.00 - 1755.00MHz; Rx: 2110.00 - 2155.00MHz<br>LTE Band 5:<br>Tx: 824.00 - 849.00MHz; Rx: 869.00 - 894.00MHz<br>LTE Band 12:<br>Tx: 699.00 - 716.00MHz; Rx: 729.00 - 746.00MHz<br>LTE Band 13:<br>Tx: 777.00 - 787.00MHz; Rx: 746.00 - 756.00MHz<br>LTE Band 25:<br>Tx: 1850.00 - 1915.00MHz; Rx: 1930.00 - 1995.00MHz<br>LTE Band 66:<br>Tx: 1710.00 - 1780.00MHz; Rx: 2110.00 - 2200.00MHz |
| Modulation technology: | LTE Mode with QPSK, 16QAM                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Antenna Type:          | Internal Antenna                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Antenna gain:          | LTE Band 2: 1.31dBi<br>LTE Band 4: 1.31dBi<br>LTE Band 5: -2.89dBi<br>LTE Band 12: -1.38dBi<br>LTE Band 13: 1.31dBi<br>LTE Band 66: 1.31dBi                                                                                                                                                                                                                                                                                                                                             |
| Power supply:          | DC 12V from adapter<br>DC 3.7V from battery                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Adapter 1:             | Manufacturer: GME Technology(Shenzhen) Co., Ltd.<br>Model: GME24A-120200FXR<br>Input: 100-240V~ 50-60Hz, 0.8A<br>Output: 12.0V $\overline{\overline{=}}$ 2.0A 24.0W                                                                                                                                                                                                                                                                                                                     |
| Adapter 2:             | Manufacturer: GME Technology(Shenzhen) Co., Ltd.<br>Model: AW025WR-1200200C<br>Input: 100-240V~ 50-60Hz, 0.8A<br>Output: 12.0V $\overline{\overline{=}}$ 2.0A 24.0W                                                                                                                                                                                                                                                                                                                     |
| LTE Category           | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Hardware Version       | V1.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Software Version       | V3.17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. The EUT's all information provided by client.



## 2.2. Product Function

Refer to Technical Construction Form and User Manual.

## 2.3. Independent Operation Modes

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

| Test modes |                                                                               |  |
|------------|-------------------------------------------------------------------------------|--|
| Band       | Radiated                                                                      |  |
| LTE Band 2 | Bandwidth:(MHz)1.4/3/5/10/15/20MHz<br>Modulation: QPSK/16QAM<br>RB:1/50%/100% |  |
| LTE Band 4 | Bandwidth:(MHz)1.4/3/5/10/15/20MHz<br>Modulation: QPSK/16QAM<br>RB:1/50%/100% |  |
| LTE Band 5 | Bandwidth:(MHz)1.4/3/5/10MHz<br>Modulation: QPSK/16QAM<br>RB:1/50%/100%       |  |
| LTE Band12 | Bandwidth:(MHz) 1.4/3/5/10MHz<br>Modulation: QPSK/16QAM<br>RB:1/50%/100%      |  |
| LTE Band13 | Bandwidth:(MHz) 5/10MHz<br>Modulation: QPSK/16QAM<br>RB:1/50%/100%            |  |
| LTE Band25 | Bandwidth:(MHz)1.4/3/5/10/15/20MHz<br>Modulation: QPSK/16QAM<br>RB:1/50%/100% |  |
| LTE Band66 | Bandwidth:(MHz)1.4/3/5/10/15/20MHz<br>Modulation: QPSK/16QAM<br>RB:1/50%/100% |  |



| Test Channel(MHz) |        |        |        |
|-------------------|--------|--------|--------|
| Band              | Low    | Middle | High   |
| LTE Band 2        | 1850.7 | 1880   | 1909.3 |
| LTE Band 4        | 1710.7 | 1732.5 | 1754.3 |
| LTE Band 5        | 824.7  | 836.5  | 848.3  |
| LTE Band 12       | 699.7  | 708.6  | 715.3  |
| LTE Band13        | 779.5  | 782.5  | 784.5  |
| LTE Band25        | 1850.7 | 1880   | 1914.3 |
| LTE Band 66       | 1710.7 | 1745.0 | 1779.0 |

Note1: for LTE mode, if the bandwidth is different, the test frequency is changed.

### 3. TEST SITES

#### 3.1. Test Facilities

##### Site Description

Name of Firm : Shenzhen DL Testing Technology Co., Ltd.

Site Location : 101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone, Baolong Street, Longgang District, Shenzhen, Guangdong, China

#### 3.2. Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

| No. | Item                         | Uncertainty               |
|-----|------------------------------|---------------------------|
| 1   | Conducted Emission Test      | $\pm 1.38\text{dB}$       |
| 2   | RF power,conducted           | $\pm 0.16\text{dB}$       |
| 3   | Spurious emissions,conducted | $\pm 0.21\text{dB}$       |
| 4   | All emissions,radiated(<1G)  | $\pm 4.68\text{dB}$       |
| 5   | All emissions,radiated(>1G)  | $\pm 4.89\text{dB}$       |
| 6   | Temperature                  | $\pm 0.5^{\circ}\text{C}$ |
| 7   | Humidity                     | $\pm 2\%$                 |



## 3.3. List of Test and Measurement Instruments

## 3.3.1. For conducted emission at the mains terminals test

| Equipment         | Manufacturer | Model No. | Serial No. | Last Cal.     | Next Cal.     |
|-------------------|--------------|-----------|------------|---------------|---------------|
| 843 Shielded Room | ChengYu      | 843 Room  | 843        | Sep. 20, 2022 | Sep. 19, 2025 |
| EMI Receiver      | R&S          | ESR       | 101421     | Nov. 05, 2022 | Nov. 04, 2023 |
| LISN              | R&S          | ENV216    | 102417     | Nov. 05, 2022 | Nov. 04, 2023 |
| 843 Cable 1#      | ChengYu      | CE Cable  | 001        | Nov. 05, 2022 | Nov. 04, 2023 |
| 843 Cable 1#      | FUJIKURA     | 843C1#    | 001        | Nov. 05, 2022 | Nov. 04, 2023 |

## 3.3.2. For radiated test

| Equipment                                | Manufacturer    | Model No.          | Serial No.  | Last Cal.     | Next Cal.     |
|------------------------------------------|-----------------|--------------------|-------------|---------------|---------------|
| Spectrum Analyzer<br>(9kHz-26.5GHz)      | Agilent         | E4408B             | MY50140780  | Nov. 05, 2022 | Nov. 04, 2023 |
| Test Receiver<br>(9kHz-7GHz)             | R&S             | ESRP7              | 101393      | Nov. 05, 2022 | Nov. 04, 2023 |
| Bilog Antenna<br>(30MHz-1GHz)            | R&S             | VULB9162           | 00306       | Nov. 05, 2022 | Nov. 04, 2023 |
| Horn Antenna<br>(1GHz-18GHz)             | Schwarzbeck     | BBHA9120D          | 02139       | Nov. 05, 2022 | Nov. 04, 2023 |
| Horn Antenna<br>(18GHz-40GHz)            | A.H. Systems    | SAS-574            | 588         | Nov. 05, 2022 | Nov. 04, 2023 |
| Amplifier<br>(9KHz-6GHz)                 | Schwarzbeck     | BBV9743B           | 00153       | Nov. 05, 2022 | Nov. 04, 2023 |
| Amplifier<br>(1GHz-18GHz)                | EMEC            | EM01G8GA           | 00270       | Nov. 05, 2022 | Nov. 04, 2023 |
| Amplifier(18GHz-40GHz)                   | Quanjuda        | DLE-161            | 97          | Nov. 05, 2022 | Nov. 04, 2023 |
| Loop<br>Antenna(9KHz-30MHz)              | Schwarzbeck     | FMZB1519B          | 00014       | Nov. 05, 2022 | Nov. 04, 2023 |
| RF cables1<br>(9kHz-1GHz)                | ChengYu         | 966                | 004         | Nov. 05, 2022 | Nov. 04, 2023 |
| RF cables2<br>(1GHz-40GHz)               | ChengYu         | 966                | 003         | Nov. 05, 2022 | Nov. 04, 2023 |
| Antenna connector                        | Florida RF Labs | N/A                | RF 01#      | Nov. 05, 2022 | Nov. 04, 2023 |
| Power probe                              | KEYSIGHT        | U2021XA            | MY55210018  | Nov. 05, 2022 | Nov. 04, 2023 |
| Signal Analyzer                          | Agilent         | N9020A             | MY55370280  | Nov. 05, 2022 | Nov. 04, 2023 |
| Test Receiver                            | R&S             | ESU 40             | 100376      | Nov. 05, 2022 | Nov. 04, 2023 |
| D.C. Power Supply                        | LongWei         | PS-305D            | 010964729   | Nov. 05, 2022 | Nov. 04, 2023 |
| Signal Amplifier                         | DAZE            | ZN3380B            | 11235       | Nov. 05, 2022 | Nov. 04, 2023 |
| High Pass filter                         | KANGMAI         | WHKX1.0/1.5G-10SS  | 40          | Nov. 05, 2022 | Nov. 04, 2023 |
| Filter                                   | COM-MW          | ZBSF-C836.5-25-X   | BCTC042     | Nov. 05, 2022 | Nov. 04, 2023 |
| Filter                                   | COM-MW          | ZBSF-C1747.5-75-X2 | BCTC045     | Nov. 05, 2022 | Nov. 04, 2023 |
| Filter                                   | COM-MW          | ZBSF-C1880-60-X2   | BCTC047     | Nov. 05, 2022 | Nov. 04, 2023 |
| Splitter                                 | Agilent         | 11435B             | 1125162     | Nov. 05, 2022 | Nov. 04, 2023 |
| RF CONDUCTED TEST                        |                 |                    |             |               |               |
| System Simulator                         | Agilent         | E5515C             | GB43130252  | Nov. 05, 2022 | Nov. 04, 2023 |
| Spectrum Analyzer                        | Agilent         | N9020A             | MY45108040  | Nov. 05, 2022 | Nov. 04, 2023 |
| DC Power Supply                          | LongWei         | PS-305D            | 010965682   | Nov. 05, 2022 | Nov. 04, 2023 |
| Constant temperature and<br>humidity box | GF              | GTH-800-40-2P      | MAA9906-012 | Nov. 05, 2022 | Nov. 04, 2023 |
| Universal radio<br>communication tester  | R&S             | CMW500             | 115295      | Nov. 05, 2022 | Nov. 04, 2023 |



#### 4. TEST SET-UP

##### 4.1. Principle of Configuration Selection

**Emission:** The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the Operating Instructions.

##### 4.2. Block Diagram of Test Set-up

System Diagram of Connections between EUT and Simulators

EUT

##### 4.3. Test Environment:

Ambient conditions in the test laboratory:

| Items            | Actual |
|------------------|--------|
| Temperature (°C) | 21~23  |
| Humidity (%RH)   | 50~65  |



## 5. EMISSION TEST RESULTS

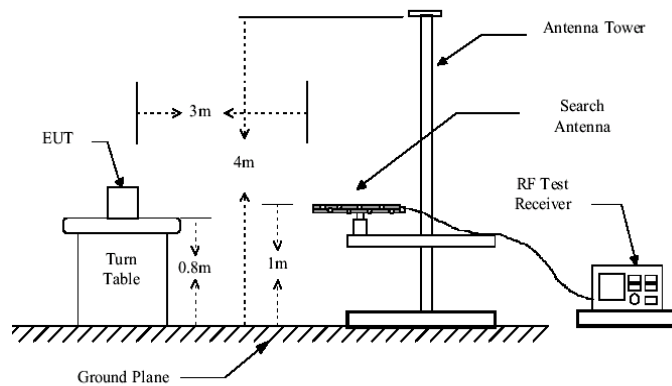
### 5.1. Transmitter Radiated Power (EIRP/ERP)

#### 5.1.1. Limit

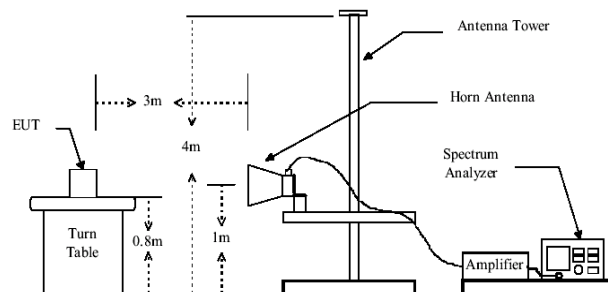
According to FCC section 22.913, the Effective Radiated Power (ERP) of mobile transmitters and auxiliary test transmitters must not exceed 7Watts, and FCC section 24.232, FCC section 27.50 the broadband PCS mobile station is limited to 2 Watts e.i.r.p. peak power.

#### 5.1.2. Test Setup

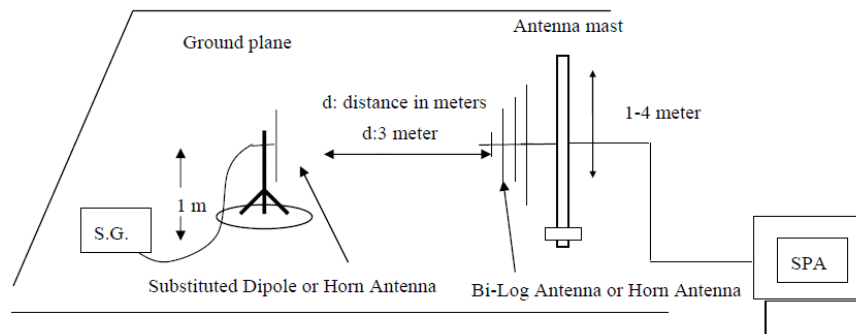
Below 1GHz



Above 1GHz



Substituted method:



#### 5.1.3. Measurement Procedure

The EUT was placed on a non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum



analyzer. all test in Full-Anechoic Chamber.

During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.

ERP in frequency band 824.2 –848.80.8MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:

EIRP in frequency band 1850.2 –1909.8MHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:

$$\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)} - 2.15$$

$$\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$$

#### 5.1.4. Test Result

Pass, the table and plot please see annex.



| EUT mode               | Channel | Antenna Pol. | S.G. output (dBm) | Antenna Gain (dBd) | Cable Loss (dB) | EIRP (dBm) | Limit (dBm) | Result |
|------------------------|---------|--------------|-------------------|--------------------|-----------------|------------|-------------|--------|
| LTE BAND 2 1.4MHz QPSK | Lowest  | V            | 5.54              | 19.35              | 2.54            | 22.35      | 33.00       | Pass   |
|                        |         | H            | 5.62              | 19.35              | 2.54            | 22.43      |             |        |
|                        | Middle  | V            | 5.87              | 19.51              | 2.62            | 22.76      | 33.00       | Pass   |
|                        |         | H            | 5.32              | 19.51              | 2.62            | 22.21      |             |        |
|                        | Highest | V            | 5.74              | 19.96              | 2.69            | 23.01      | 33.00       | Pass   |
|                        |         | H            | 5.70              | 19.96              | 2.69            | 22.97      |             |        |
| LTE BAND 2 3MHz QPSK   | Lowest  | V            | 5.43              | 19.35              | 2.54            | 22.24      | 33.00       | Pass   |
|                        |         | H            | 5.52              | 19.35              | 2.54            | 22.33      |             |        |
|                        | Middle  | V            | 5.35              | 19.51              | 2.62            | 22.24      | 33.00       | Pass   |
|                        |         | H            | 5.21              | 19.51              | 2.62            | 22.10      |             |        |
|                        | Highest | V            | 5.62              | 19.96              | 2.69            | 22.89      | 33.00       | Pass   |
|                        |         | H            | 5.61              | 19.96              | 2.69            | 22.88      |             |        |
| LTE BAND 2 5MHz QPSK   | Lowest  | V            | 5.62              | 19.35              | 2.54            | 22.43      | 33.00       | Pass   |
|                        |         | H            | 5.71              | 19.35              | 2.54            | 22.52      |             |        |
|                        | Middle  | V            | 5.55              | 19.51              | 2.62            | 22.44      | 33.00       | Pass   |
|                        |         | H            | 5.40              | 19.51              | 2.62            | 22.29      |             |        |
|                        | Highest | V            | 5.82              | 19.96              | 2.69            | 23.09      | 33.00       | Pass   |
|                        |         | H            | 5.79              | 19.96              | 2.69            | 23.06      |             |        |
| LTE BAND 2 10MHz QPSK  | Lowest  | V            | 5.55              | 19.35              | 2.54            | 22.36      | 33.00       | Pass   |
|                        |         | H            | 5.63              | 19.35              | 2.54            | 22.44      |             |        |
|                        | Middle  | V            | 5.88              | 19.51              | 2.62            | 22.77      | 33.00       | Pass   |
|                        |         | H            | 5.33              | 19.51              | 2.62            | 22.22      |             |        |
|                        | Highest | V            | 5.75              | 19.96              | 2.69            | 23.02      | 33.00       | Pass   |
|                        |         | H            | 5.71              | 19.96              | 2.69            | 22.98      |             |        |
| LTE BAND 2 15MHz QPSK  | Lowest  | V            | 5.44              | 19.35              | 2.54            | 22.25      | 33.00       | Pass   |
|                        |         | H            | 5.53              | 19.35              | 2.54            | 22.34      |             |        |
|                        | Middle  | V            | 5.36              | 19.51              | 2.62            | 22.25      | 33.00       | Pass   |
|                        |         | H            | 5.22              | 19.51              | 2.62            | 22.11      |             |        |
|                        | Highest | V            | 5.63              | 19.96              | 2.69            | 22.90      | 33.00       | Pass   |
|                        |         | H            | 5.62              | 19.96              | 2.69            | 22.89      |             |        |
| LTE BAND 2 20MHz QPSK  | Lowest  | V            | 5.63              | 19.35              | 2.54            | 22.44      | 33.00       | Pass   |
|                        |         | H            | 5.72              | 19.35              | 2.54            | 22.53      |             |        |
|                        | Middle  | V            | 5.56              | 19.51              | 2.62            | 22.45      | 33.00       | Pass   |
|                        |         | H            | 5.41              | 19.51              | 2.62            | 22.30      |             |        |
|                        | Highest | V            | 5.83              | 19.96              | 2.69            | 23.10      | 33.00       | Pass   |
|                        |         | H            | 5.80              | 19.96              | 2.69            | 23.07      |             |        |



| EUT mode                | Channel | Antenna Pol. | S.G. output (dBm) | Antenna Gain (dBd) | Cable Loss (dB) | EIRP (dBm) | Limit (dBm) | Result |
|-------------------------|---------|--------------|-------------------|--------------------|-----------------|------------|-------------|--------|
| LTE BAND 2 1.4MHz 16QAM | Lowest  | V            | 5.45              | 19.35              | 2.54            | 22.26      | 33.00       | Pass   |
|                         |         | H            | 5.53              | 19.35              | 2.54            | 22.34      |             |        |
|                         | Middle  | V            | 6.37              | 19.51              | 2.62            | 23.26      | 33.00       | Pass   |
|                         |         | H            | 5.24              | 19.51              | 2.62            | 22.13      |             |        |
|                         | Highest | V            | 5.65              | 19.96              | 2.69            | 22.92      | 33.00       | Pass   |
|                         |         | H            | 5.61              | 19.96              | 2.69            | 22.88      |             |        |
| LTE BAND 2 3MHz 16QAM   | Lowest  | V            | 5.35              | 19.35              | 2.54            | 22.16      | 33.00       | Pass   |
|                         |         | H            | 5.44              | 19.35              | 2.54            | 22.25      |             |        |
|                         | Middle  | V            | 6.24              | 19.51              | 2.62            | 23.13      | 33.00       | Pass   |
|                         |         | H            | 5.13              | 19.51              | 2.62            | 22.02      |             |        |
|                         | Highest | V            | 5.53              | 19.96              | 2.69            | 22.80      | 33.00       | Pass   |
|                         |         | H            | 5.52              | 19.96              | 2.69            | 22.79      |             |        |
| LTE BAND 2 5MHz 16QAM   | Lowest  | V            | 5.53              | 19.35              | 2.54            | 22.34      | 33.00       | Pass   |
|                         |         | H            | 5.62              | 19.35              | 2.54            | 22.43      |             |        |
|                         | Middle  | V            | 6.46              | 19.51              | 2.62            | 23.35      | 33.00       | Pass   |
|                         |         | H            | 6.31              | 19.51              | 2.62            | 23.20      |             |        |
|                         | Highest | V            | 5.73              | 19.96              | 2.69            | 23.00      | 33.00       | Pass   |
|                         |         | H            | 5.70              | 19.96              | 2.69            | 22.97      |             |        |
| LTE BAND 2 10MHz 16QAM  | Lowest  | V            | 5.03              | 19.33              | 2.52            | 21.84      | 33.00       | Pass   |
|                         |         | H            | 5.19              | 19.33              | 2.52            | 22.00      |             |        |
|                         | Middle  | V            | 5.44              | 19.50              | 2.60            | 22.34      | 33.00       | Pass   |
|                         |         | H            | 5.28              | 19.50              | 2.60            | 22.18      |             |        |
|                         | Highest | V            | 5.71              | 19.94              | 2.71            | 22.94      | 33.00       | Pass   |
|                         |         | H            | 5.64              | 19.94              | 2.71            | 22.87      |             |        |
| LTE BAND 2 15MHz 16QAM  | Lowest  | V            | 5.03              | 19.33              | 2.52            | 21.84      | 33.00       | Pass   |
|                         |         | H            | 5.19              | 19.33              | 2.52            | 22.00      |             |        |
|                         | Middle  | V            | 5.44              | 19.50              | 2.60            | 22.34      | 33.00       | Pass   |
|                         |         | H            | 5.28              | 19.50              | 2.60            | 22.18      |             |        |
|                         | Highest | V            | 5.71              | 19.94              | 2.71            | 22.94      | 33.00       | Pass   |
|                         |         | H            | 5.64              | 19.94              | 2.71            | 22.87      |             |        |
| LTE BAND 2 20MHz 16QAM  | Lowest  | V            | 5.12              | 19.33              | 2.52            | 21.93      | 33.00       | Pass   |
|                         |         | H            | 5.28              | 19.33              | 2.52            | 22.09      |             |        |
|                         | Middle  | V            | 5.53              | 19.50              | 2.60            | 22.43      | 33.00       | Pass   |
|                         |         | H            | 5.37              | 19.50              | 2.60            | 22.27      |             |        |
|                         | Highest | V            | 5.81              | 19.94              | 2.71            | 23.04      | 33.00       | Pass   |
|                         |         | H            | 5.74              | 19.94              | 2.71            | 22.97      |             |        |



| EUT mode               | Channel | Antenna Pol. | S.G. output (dBm) | Antenna Gain (dBd) | Cable Loss (dB) | EIRP (dBm) | Limit (dBm) | Result |
|------------------------|---------|--------------|-------------------|--------------------|-----------------|------------|-------------|--------|
| LTE BAND 4 1.4MHz QPSK | Lowest  | V            | 5.51              | 19.35              | 2.54            | 22.32      | 30.00       | Pass   |
|                        |         | H            | 5.57              | 19.35              | 2.54            | 22.38      |             |        |
|                        | Middle  | V            | 6.41              | 19.51              | 2.62            | 23.30      | 30.00       | Pass   |
|                        |         | H            | 5.27              | 19.51              | 2.62            | 22.16      |             |        |
|                        | Highest | V            | 5.69              | 19.96              | 2.69            | 22.96      | 30.00       | Pass   |
|                        |         | H            | 5.65              | 19.96              | 2.69            | 22.92      |             |        |
| LTE BAND 4 3MHz QPSK   | Lowest  | V            | 5.38              | 19.35              | 2.54            | 22.19      | 30.00       | Pass   |
|                        |         | H            | 5.49              | 19.35              | 2.54            | 22.30      |             |        |
|                        | Middle  | V            | 5.30              | 19.51              | 2.62            | 22.19      | 30.00       | Pass   |
|                        |         | H            | 5.16              | 19.51              | 2.62            | 22.05      |             |        |
|                        | Highest | V            | 5.57              | 19.96              | 2.69            | 22.84      | 30.00       | Pass   |
|                        |         | H            | 5.56              | 19.96              | 2.69            | 22.83      |             |        |
| LTE BAND 4 5MHz QPSK   | Lowest  | V            | 5.58              | 19.35              | 2.54            | 22.39      | 30.00       | Pass   |
|                        |         | H            | 5.66              | 19.35              | 2.54            | 22.47      |             |        |
|                        | Middle  | V            | 5.51              | 19.51              | 2.62            | 22.40      | 30.00       | Pass   |
|                        |         | H            | 5.35              | 19.51              | 2.62            | 22.24      |             |        |
|                        | Highest | V            | 5.77              | 19.96              | 2.69            | 23.04      | 30.00       | Pass   |
|                        |         | H            | 5.74              | 19.96              | 2.69            | 23.01      |             |        |
| LTE BAND 4 10MHz QPSK  | Lowest  | V            | 5.07              | 19.33              | 2.52            | 21.88      | 30.00       | Pass   |
|                        |         | H            | 5.21              | 19.33              | 2.52            | 22.02      |             |        |
|                        | Middle  | V            | 5.48              | 19.50              | 2.60            | 22.38      | 30.00       | Pass   |
|                        |         | H            | 5.30              | 19.50              | 2.60            | 22.20      |             |        |
|                        | Highest | V            | 5.75              | 19.94              | 2.71            | 22.98      | 30.00       | Pass   |
|                        |         | H            | 5.68              | 19.94              | 2.71            | 22.91      |             |        |
| LTE BAND 4 15MHz QPSK  | Lowest  | V            | 5.07              | 19.33              | 2.52            | 21.88      | 30.00       | Pass   |
|                        |         | H            | 5.21              | 19.33              | 2.52            | 22.02      |             |        |
|                        | Middle  | V            | 5.48              | 19.50              | 2.60            | 22.38      | 30.00       | Pass   |
|                        |         | H            | 5.30              | 19.50              | 2.60            | 22.20      |             |        |
|                        | Highest | V            | 5.75              | 19.94              | 2.71            | 22.98      | 30.00       | Pass   |
|                        |         | H            | 5.68              | 19.94              | 2.71            | 22.91      |             |        |
| LTE BAND 4 20MHz QPSK  | Lowest  | V            | 5.07              | 19.33              | 2.52            | 21.88      | 30.00       | Pass   |
|                        |         | H            | 5.21              | 19.33              | 2.52            | 22.02      |             |        |
|                        | Middle  | V            | 5.48              | 19.50              | 2.60            | 22.38      | 30.00       | Pass   |
|                        |         | H            | 5.30              | 19.50              | 2.60            | 22.20      |             |        |
|                        | Highest | V            | 5.75              | 19.94              | 2.71            | 22.98      | 30.00       | Pass   |
|                        |         | H            | 5.68              | 19.94              | 2.71            | 22.91      |             |        |



| EUT mode                | Channel | Antenna Pol. | S.G. output (dBm) | Antenna Gain (dBd) | Cable Loss (dB) | EIRP (dBm) | Limit (dBm) | Result |
|-------------------------|---------|--------------|-------------------|--------------------|-----------------|------------|-------------|--------|
| LTE BAND 4 1.4MHz 16QAM | Lowest  | V            | 5.57              | 19.35              | 2.54            | 22.38      | 30.00       | Pass   |
|                         |         | H            | 5.65              | 19.35              | 2.54            | 22.46      |             |        |
|                         | Middle  | V            | 6.49              | 19.51              | 2.62            | 23.38      | 30.00       | Pass   |
|                         |         | H            | 5.33              | 19.51              | 2.62            | 22.22      |             |        |
|                         | Highest | V            | 5.77              | 19.96              | 2.69            | 23.04      | 30.00       | Pass   |
|                         |         | H            | 5.73              | 19.96              | 2.69            | 23.00      |             |        |
| LTE BAND 4 3MHz 16QAM   | Lowest  | V            | 5.45              | 19.35              | 2.54            | 22.26      | 30.00       | Pass   |
|                         |         | H            | 5.55              | 19.35              | 2.54            | 22.36      |             |        |
|                         | Middle  | V            | 5.36              | 19.51              | 2.62            | 22.25      | 30.00       | Pass   |
|                         |         | H            | 5.22              | 19.51              | 2.62            | 22.11      |             |        |
|                         | Highest | V            | 5.65              | 19.96              | 2.69            | 22.92      | 30.00       | Pass   |
|                         |         | H            | 5.64              | 19.96              | 2.69            | 22.91      |             |        |
| LTE BAND 4 5MHz 16QAM   | Lowest  | V            | 5.55              | 19.35              | 2.54            | 22.36      | 30.00       | Pass   |
|                         |         | H            | 5.64              | 19.35              | 2.54            | 22.45      |             |        |
|                         | Middle  | V            | 5.48              | 19.51              | 2.62            | 22.37      | 30.00       | Pass   |
|                         |         | H            | 5.32              | 19.51              | 2.62            | 22.21      |             |        |
|                         | Highest | V            | 5.75              | 19.96              | 2.69            | 23.02      | 30.00       | Pass   |
|                         |         | H            | 5.72              | 19.96              | 2.69            | 22.99      |             |        |
| LTE BAND 4 10MHz 16QAM  | Lowest  | V            | 5.13              | 19.33              | 2.52            | 21.94      | 30.00       | Pass   |
|                         |         | H            | 5.28              | 19.33              | 2.52            | 22.09      |             |        |
|                         | Middle  | V            | 5.55              | 19.50              | 2.60            | 22.45      | 30.00       | Pass   |
|                         |         | H            | 5.37              | 19.50              | 2.60            | 22.27      |             |        |
|                         | Highest | V            | 5.82              | 19.94              | 2.71            | 23.05      | 30.00       | Pass   |
|                         |         | H            | 5.76              | 19.94              | 2.71            | 22.99      |             |        |
| LTE BAND 4 15MHz 16QAM  | Lowest  | V            | 5.13              | 19.33              | 2.52            | 21.94      | 30.00       | Pass   |
|                         |         | H            | 5.28              | 19.33              | 2.52            | 22.09      |             |        |
|                         | Middle  | V            | 5.55              | 19.50              | 2.60            | 22.45      | 30.00       | Pass   |
|                         |         | H            | 5.37              | 19.50              | 2.60            | 22.27      |             |        |
|                         | Highest | V            | 5.82              | 19.94              | 2.71            | 23.05      | 30.00       | Pass   |
|                         |         | H            | 5.76              | 19.94              | 2.71            | 22.99      |             |        |
| LTE BAND 4 20MHz 16QAM  | Lowest  | V            | 5.13              | 19.33              | 2.52            | 21.94      | 30.00       | Pass   |
|                         |         | H            | 5.28              | 19.33              | 2.52            | 22.09      |             |        |
|                         | Middle  | V            | 5.55              | 19.50              | 2.60            | 22.45      | 30.00       | Pass   |
|                         |         | H            | 5.37              | 19.50              | 2.60            | 22.27      |             |        |
|                         | Highest | V            | 5.82              | 19.94              | 2.71            | 23.05      | 30.00       | Pass   |
|                         |         | H            | 5.76              | 19.94              | 2.71            | 22.99      |             |        |



| EUT mode                | Channel | Antenna Pol. | S.G. output (dBm) | Antenna Gain (dBd) | Cable Loss (dB) | ERP (dBm) | Limit (dBm) | Result |
|-------------------------|---------|--------------|-------------------|--------------------|-----------------|-----------|-------------|--------|
| LTE BAND 5 1.4MHz QPSK  | Lowest  | V            | 6.98              | 15.68              | 1.65            | 18.86     | 38.45       | Pass   |
|                         |         | H            | 8.02              | 15.68              | 1.65            | 19.90     |             |        |
|                         | Middle  | V            | 7.54              | 15.70              | 1.67            | 19.42     | 38.45       | Pass   |
|                         |         | H            | 7.43              | 15.70              | 1.67            | 19.31     |             |        |
|                         | Highest | V            | 8.20              | 15.70              | 1.71            | 20.04     | 38.45       | Pass   |
|                         |         | H            | 6.98              | 15.70              | 1.71            | 18.82     |             |        |
| LTE BAND 5 3MHz QPSK    | Lowest  | V            | 7.82              | 15.68              | 1.65            | 19.70     | 38.45       | Pass   |
|                         |         | H            | 7.87              | 15.68              | 1.65            | 19.75     |             |        |
|                         | Middle  | V            | 7.38              | 15.70              | 1.67            | 19.26     | 38.45       | Pass   |
|                         |         | H            | 7.28              | 15.70              | 1.67            | 19.16     |             |        |
|                         | Highest | V            | 7.03              | 15.70              | 1.71            | 18.87     | 38.45       | Pass   |
|                         |         | H            | 7.84              | 15.70              | 1.71            | 19.68     |             |        |
| LTE BAND 5 5MHz QPSK    | Lowest  | V            | 7.91              | 15.68              | 1.65            | 19.79     | 38.45       | Pass   |
|                         |         | H            | 7.95              | 15.68              | 1.65            | 19.83     |             |        |
|                         | Middle  | V            | 7.47              | 15.70              | 1.67            | 19.35     | 38.45       | Pass   |
|                         |         | H            | 7.37              | 15.70              | 1.67            | 19.25     |             |        |
|                         | Highest | V            | 7.12              | 15.70              | 1.71            | 18.96     | 38.45       | Pass   |
|                         |         | H            | 7.92              | 15.70              | 1.71            | 19.76     |             |        |
| LTE BAND 5 10MHz QPSK   | Lowest  | V            | 7.83              | 15.68              | 1.65            | 19.71     | 38.45       | Pass   |
|                         |         | H            | 7.88              | 15.68              | 1.65            | 19.76     |             |        |
|                         | Middle  | V            | 7.39              | 15.70              | 1.67            | 19.27     | 38.45       | Pass   |
|                         |         | H            | 6.29              | 15.70              | 1.67            | 18.17     |             |        |
|                         | Highest | V            | 8.05              | 15.70              | 1.71            | 19.89     | 38.45       | Pass   |
|                         |         | H            | 7.85              | 15.70              | 1.71            | 19.69     |             |        |
| LTE BAND 5 1.4MHz 16QAM | Lowest  | V            | 7.01              | 15.68              | 1.65            | 18.89     | 38.45       | Pass   |
|                         |         | H            | 8.05              | 15.68              | 1.65            | 19.93     |             |        |
|                         | Middle  | V            | 7.57              | 15.70              | 1.67            | 19.45     | 38.45       | Pass   |
|                         |         | H            | 7.46              | 15.70              | 1.67            | 19.34     |             |        |
|                         | Highest | V            | 7.23              | 15.70              | 1.71            | 19.07     | 38.45       | Pass   |
|                         |         | H            | 7.01              | 15.70              | 1.71            | 18.85     |             |        |
| LTE BAND 5 3MHz 16QAM   | Lowest  | V            | 7.85              | 15.68              | 1.65            | 19.73     | 38.45       | Pass   |
|                         |         | H            | 7.90              | 15.68              | 1.65            | 19.78     |             |        |
|                         | Middle  | V            | 7.41              | 15.70              | 1.67            | 19.29     | 38.45       | Pass   |
|                         |         | H            | 7.30              | 15.70              | 1.67            | 19.18     |             |        |
|                         | Highest | V            | 7.06              | 15.70              | 1.71            | 18.90     | 38.45       | Pass   |
|                         |         | H            | 7.87              | 15.70              | 1.71            | 19.71     |             |        |
| LTE BAND 5 5MHz 16QAM   | Lowest  | V            | 7.94              | 15.68              | 1.65            | 19.82     | 38.45       | Pass   |
|                         |         | H            | 7.99              | 15.68              | 1.65            | 19.87     |             |        |
|                         | Middle  | V            | 7.50              | 15.70              | 1.67            | 19.38     | 38.45       | Pass   |
|                         |         | H            | 7.40              | 15.70              | 1.67            | 19.28     |             |        |
|                         | Highest | V            | 7.14              | 15.70              | 1.71            | 18.98     | 38.45       | Pass   |
|                         |         | H            | 7.95              | 15.70              | 1.71            | 19.79     |             |        |
| LTE BAND 5 10MHz 16QAM  | Lowest  | V            | 7.86              | 15.68              | 1.65            | 19.74     | 38.45       | Pass   |
|                         |         | H            | 7.91              | 15.68              | 1.65            | 19.79     |             |        |
|                         | Middle  | V            | 7.42              | 15.70              | 1.67            | 19.30     | 38.45       | Pass   |
|                         |         | H            | 7.31              | 15.70              | 1.67            | 19.19     |             |        |
|                         | Highest | V            | 8.08              | 15.70              | 1.71            | 19.92     | 38.45       | Pass   |
|                         |         | H            | 7.95              | 15.70              | 1.71            | 19.79     |             |        |



| EUT mode                    | Channel | Antenna Pol. | S.G. output (dBm) | Antenna Gain (dBd) | Cable Loss (dB) | ERP (dBm) | Limit (dBm) | Result |
|-----------------------------|---------|--------------|-------------------|--------------------|-----------------|-----------|-------------|--------|
| LTE BAND 12<br>1.4MHz QPSK  | Lowest  | V            | 5.53              | 19.35              | 2.54            | 20.19     | 34.77       | Pass   |
|                             |         | H            | 5.61              | 19.35              | 2.54            | 20.27     |             |        |
|                             | Middle  | V            | 6.47              | 19.51              | 2.62            | 21.21     | 34.77       | Pass   |
|                             |         | H            | 5.29              | 19.51              | 2.62            | 20.03     |             |        |
|                             | Highest | V            | 5.73              | 19.96              | 2.69            | 20.85     | 34.77       | Pass   |
|                             |         | H            | 5.69              | 19.96              | 2.69            | 20.81     |             |        |
| LTE BAND 12<br>3MHz QPSK    | Lowest  | V            | 5.40              | 19.35              | 2.54            | 20.06     | 34.77       | Pass   |
|                             |         | H            | 5.51              | 19.35              | 2.54            | 20.17     |             |        |
|                             | Middle  | V            | 5.32              | 19.51              | 2.62            | 20.06     | 34.77       | Pass   |
|                             |         | H            | 5.18              | 19.51              | 2.62            | 19.92     |             |        |
|                             | Highest | V            | 5.61              | 19.96              | 2.69            | 20.73     | 34.77       | Pass   |
|                             |         | H            | 5.60              | 19.96              | 2.69            | 20.72     |             |        |
| LTE BAND 12<br>5MHz QPSK    | Lowest  | V            | 5.51              | 19.35              | 2.54            | 20.17     | 34.77       | Pass   |
|                             |         | H            | 5.60              | 19.35              | 2.54            | 20.26     |             |        |
|                             | Middle  | V            | 5.44              | 19.51              | 2.62            | 20.18     | 34.77       | Pass   |
|                             |         | H            | 5.28              | 19.51              | 2.62            | 20.02     |             |        |
|                             | Highest | V            | 5.71              | 19.96              | 2.69            | 20.83     | 34.77       | Pass   |
|                             |         | H            | 5.68              | 19.96              | 2.69            | 20.80     |             |        |
| LTE BAND 12<br>10MHz QPSK   | Lowest  | V            | 5.53              | 19.35              | 2.54            | 20.19     | 34.77       | Pass   |
|                             |         | H            | 5.61              | 19.35              | 2.54            | 20.27     |             |        |
|                             | Middle  | V            | 5.46              | 19.51              | 2.62            | 20.20     | 34.77       | Pass   |
|                             |         | H            | 5.35              | 19.51              | 2.62            | 20.09     |             |        |
|                             | Highest | V            | 5.74              | 19.96              | 2.69            | 20.86     | 34.77       | Pass   |
|                             |         | H            | 5.68              | 19.96              | 2.69            | 20.80     |             |        |
| LTE BAND 12<br>1.4MHz 16QAM | Lowest  | V            | 5.35              | 19.35              | 2.54            | 20.01     | 34.77       | Pass   |
|                             |         | H            | 5.45              | 19.35              | 2.54            | 20.11     |             |        |
|                             | Middle  | V            | 5.27              | 19.51              | 2.62            | 20.01     | 34.77       | Pass   |
|                             |         | H            | 5.13              | 19.51              | 2.62            | 19.87     |             |        |
|                             | Highest | V            | 5.55              | 19.96              | 2.69            | 20.67     | 34.77       | Pass   |
|                             |         | H            | 5.79              | 19.96              | 2.69            | 20.91     |             |        |
| LTE BAND 12<br>3MHz 16QAM   | Lowest  | V            | 5.46              | 19.35              | 2.54            | 20.12     | 34.77       | Pass   |
|                             |         | H            | 5.55              | 19.35              | 2.54            | 20.21     |             |        |
|                             | Middle  | V            | 5.38              | 19.51              | 2.62            | 20.12     | 34.77       | Pass   |
|                             |         | H            | 5.24              | 19.51              | 2.62            | 19.98     |             |        |
|                             | Highest | V            | 5.66              | 19.96              | 2.69            | 20.78     | 34.77       | Pass   |
|                             |         | H            | 5.63              | 19.96              | 2.69            | 20.75     |             |        |
| LTE BAND 12<br>5MHz 16QAM   | Lowest  | V            | 5.36              | 19.35              | 2.54            | 20.02     | 34.77       | Pass   |
|                             |         | H            | 5.46              | 19.35              | 2.54            | 20.12     |             |        |
|                             | Middle  | V            | 5.28              | 19.51              | 2.62            | 20.02     | 34.77       | Pass   |
|                             |         | H            | 5.14              | 19.51              | 2.62            | 19.88     |             |        |
|                             | Highest | V            | 5.56              | 19.96              | 2.69            | 20.68     | 34.77       | Pass   |
|                             |         | H            | 5.55              | 19.96              | 2.69            | 20.67     |             |        |
| LTE BAND 12<br>10MHz 16QAM  | Lowest  | V            | 5.46              | 19.35              | 2.54            | 20.12     | 34.77       | Pass   |
|                             |         | H            | 5.55              | 19.35              | 2.54            | 20.21     |             |        |
|                             | Middle  | V            | 5.38              | 19.51              | 2.62            | 20.12     | 34.77       | Pass   |
|                             |         | H            | 5.24              | 19.51              | 2.62            | 19.98     |             |        |
|                             | Highest | V            | 5.68              | 19.96              | 2.69            | 20.80     | 34.77       | Pass   |
|                             |         | H            | 5.63              | 19.96              | 2.69            | 20.75     |             |        |



| EUT mode                | Channel | Antenna Pol. | S.G. output (dBm) | Antenna Gain (dBd) | Cable Loss (dB) | ERP (dBm) | Limit (dBm) | Result |
|-------------------------|---------|--------------|-------------------|--------------------|-----------------|-----------|-------------|--------|
| LTE BAND 13 5MHz QPSK   | Lowest  | V            | 5.54              | 19.35              | 2.54            | 20.20     | 34.77       | Pass   |
|                         |         | H            | 5.62              | 19.35              | 2.54            | 20.28     |             |        |
|                         | Middle  | V            | 6.48              | 19.51              | 2.62            | 21.22     | 34.77       | Pass   |
|                         |         | H            | 5.30              | 19.51              | 2.62            | 20.04     |             |        |
|                         | Highest | V            | 5.74              | 19.96              | 2.69            | 20.86     | 34.77       | Pass   |
|                         |         | H            | 5.70              | 19.96              | 2.69            | 20.82     |             |        |
| LTE BAND 13 10MHz QPSK  | Lowest  | V            | 5.41              | 19.35              | 2.54            | 20.07     | 34.77       | Pass   |
|                         |         | H            | 5.52              | 19.35              | 2.54            | 20.18     |             |        |
|                         | Middle  | V            | 5.33              | 19.51              | 2.62            | 20.07     | 34.77       | Pass   |
|                         |         | H            | 5.19              | 19.51              | 2.62            | 19.93     |             |        |
|                         | Highest | V            | 5.62              | 19.96              | 2.69            | 20.74     | 34.77       | Pass   |
|                         |         | H            | 5.61              | 19.96              | 2.69            | 20.73     |             |        |
| LTE BAND 13 5MHz 16QAM  | Lowest  | V            | 5.52              | 19.35              | 2.54            | 20.18     | 34.77       | Pass   |
|                         |         | H            | 5.61              | 19.35              | 2.54            | 20.27     |             |        |
|                         | Middle  | V            | 5.45              | 19.51              | 2.62            | 20.19     | 34.77       | Pass   |
|                         |         | H            | 5.29              | 19.51              | 2.62            | 20.03     |             |        |
|                         | Highest | V            | 5.72              | 19.96              | 2.69            | 20.84     | 34.77       | Pass   |
|                         |         | H            | 5.69              | 19.96              | 2.69            | 20.81     |             |        |
| LTE BAND 13 10MHz 16QAM | Lowest  | V            | 5.54              | 19.35              | 2.54            | 20.20     | 34.77       | Pass   |
|                         |         | H            | 5.62              | 19.35              | 2.54            | 20.28     |             |        |
|                         | Middle  | V            | 5.47              | 19.51              | 2.62            | 20.21     | 34.77       | Pass   |
|                         |         | H            | 5.36              | 19.51              | 2.62            | 20.10     |             |        |
|                         | Highest | V            | 5.75              | 19.96              | 2.69            | 20.87     | 34.77       | Pass   |
|                         |         | H            | 5.69              | 19.96              | 2.69            | 20.81     |             |        |
|                         |         | H            | 5.35              | 19.96              | 2.69            | 20.47     |             |        |



| EUT mode                   | Channel | Antenna Pol. | S.G. output (dBm) | Antenna Gain (dBd) | Cable Loss (dB) | EIRP (dBm) | Limit (dBm) | Result |
|----------------------------|---------|--------------|-------------------|--------------------|-----------------|------------|-------------|--------|
| LTE BAND 25<br>1.4MHz QPSK | Lowest  | V            | 5.51              | 19.35              | 2.54            | 22.32      | 30.00       | Pass   |
|                            |         | H            | 5.57              | 19.35              | 2.54            | 22.38      |             |        |
|                            | Middle  | V            | 6.41              | 19.51              | 2.62            | 23.30      | 30.00       | Pass   |
|                            |         | H            | 5.27              | 19.51              | 2.62            | 22.16      |             |        |
|                            | Highest | V            | 5.69              | 19.96              | 2.69            | 22.96      | 30.00       | Pass   |
|                            |         | H            | 5.65              | 19.96              | 2.69            | 22.92      |             |        |
| LTE BAND 25<br>3MHz QPSK   | Lowest  | V            | 5.38              | 19.35              | 2.54            | 22.19      | 30.00       | Pass   |
|                            |         | H            | 5.49              | 19.35              | 2.54            | 22.30      |             |        |
|                            | Middle  | V            | 5.30              | 19.51              | 2.62            | 22.19      | 30.00       | Pass   |
|                            |         | H            | 5.16              | 19.51              | 2.62            | 22.05      |             |        |
|                            | Highest | V            | 5.57              | 19.96              | 2.69            | 22.84      | 30.00       | Pass   |
|                            |         | H            | 5.56              | 19.96              | 2.69            | 22.83      |             |        |
| LTE BAND 25<br>5MHz QPSK   | Lowest  | V            | 5.58              | 19.35              | 2.54            | 22.39      | 30.00       | Pass   |
|                            |         | H            | 5.66              | 19.35              | 2.54            | 22.47      |             |        |
|                            | Middle  | V            | 5.51              | 19.51              | 2.62            | 22.40      | 30.00       | Pass   |
|                            |         | H            | 5.35              | 19.51              | 2.62            | 22.24      |             |        |
|                            | Highest | V            | 5.77              | 19.96              | 2.69            | 23.04      | 30.00       | Pass   |
|                            |         | H            | 5.74              | 19.96              | 2.69            | 23.01      |             |        |
| LTE BAND 25<br>10MHz QPSK  | Lowest  | V            | 5.07              | 19.33              | 2.52            | 21.88      | 30.00       | Pass   |
|                            |         | H            | 5.21              | 19.33              | 2.52            | 22.02      |             |        |
|                            | Middle  | V            | 5.48              | 19.50              | 2.60            | 22.38      | 30.00       | Pass   |
|                            |         | H            | 5.30              | 19.50              | 2.60            | 22.20      |             |        |
|                            | Highest | V            | 5.75              | 19.94              | 2.71            | 22.98      | 30.00       | Pass   |
|                            |         | H            | 5.68              | 19.94              | 2.71            | 22.91      |             |        |
| LTE BAND 25<br>15MHz QPSK  | Lowest  | V            | 5.07              | 19.33              | 2.52            | 21.88      | 30.00       | Pass   |
|                            |         | H            | 5.21              | 19.33              | 2.52            | 22.02      |             |        |
|                            | Middle  | V            | 5.48              | 19.50              | 2.60            | 22.38      | 30.00       | Pass   |
|                            |         | H            | 5.30              | 19.50              | 2.60            | 22.20      |             |        |
|                            | Highest | V            | 5.75              | 19.94              | 2.71            | 22.98      | 30.00       | Pass   |
|                            |         | H            | 5.68              | 19.94              | 2.71            | 22.91      |             |        |
| LTE BAND 25<br>20MHz QPSK  | Lowest  | V            | 5.07              | 19.33              | 2.52            | 21.88      | 30.00       | Pass   |
|                            |         | H            | 5.21              | 19.33              | 2.52            | 22.02      |             |        |
|                            | Middle  | V            | 5.48              | 19.50              | 2.60            | 22.38      | 30.00       | Pass   |
|                            |         | H            | 5.30              | 19.50              | 2.60            | 22.20      |             |        |
|                            | Highest | V            | 5.75              | 19.94              | 2.71            | 22.98      | 30.00       | Pass   |
|                            |         | H            | 5.68              | 19.94              | 2.71            | 22.91      |             |        |



| EUT mode                          | Channel | Antenna Pol. | S.G. output (dBm) | Antenna Gain (dBd) | Cable Loss (dB) | EIRP (dBm) | Limit (dBm) | Result |
|-----------------------------------|---------|--------------|-------------------|--------------------|-----------------|------------|-------------|--------|
| LTE<br>BAND 25<br>1.4MHz<br>16QAM | Lowest  | V            | 5.57              | 19.35              | 2.54            | 22.38      | 30.00       | Pass   |
|                                   |         | H            | 5.65              | 19.35              | 2.54            | 22.46      |             |        |
|                                   | Middle  | V            | 6.49              | 19.51              | 2.62            | 23.38      | 30.00       | Pass   |
|                                   |         | H            | 5.33              | 19.51              | 2.62            | 22.22      |             |        |
|                                   | Highest | V            | 5.77              | 19.96              | 2.69            | 23.04      | 30.00       | Pass   |
|                                   |         | H            | 5.73              | 19.96              | 2.69            | 23.00      |             |        |
| LTE<br>BAND 25<br>3MHz<br>16QAM   | Lowest  | V            | 5.45              | 19.35              | 2.54            | 22.26      | 30.00       | Pass   |
|                                   |         | H            | 5.55              | 19.35              | 2.54            | 22.36      |             |        |
|                                   | Middle  | V            | 5.36              | 19.51              | 2.62            | 22.25      | 30.00       | Pass   |
|                                   |         | H            | 5.22              | 19.51              | 2.62            | 22.11      |             |        |
|                                   | Highest | V            | 5.65              | 19.96              | 2.69            | 22.92      | 30.00       | Pass   |
|                                   |         | H            | 5.64              | 19.96              | 2.69            | 22.91      |             |        |
| LTE<br>BAND 25<br>5MHz<br>16QAM   | Lowest  | V            | 5.55              | 19.35              | 2.54            | 22.36      | 30.00       | Pass   |
|                                   |         | H            | 5.64              | 19.35              | 2.54            | 22.45      |             |        |
|                                   | Middle  | V            | 5.48              | 19.51              | 2.62            | 22.37      | 30.00       | Pass   |
|                                   |         | H            | 5.32              | 19.51              | 2.62            | 22.21      |             |        |
|                                   | Highest | V            | 5.75              | 19.96              | 2.69            | 23.02      | 30.00       | Pass   |
|                                   |         | H            | 5.72              | 19.96              | 2.69            | 22.99      |             |        |
| LTE<br>BAND 25<br>10MHz<br>16QAM  | Lowest  | V            | 5.13              | 19.33              | 2.52            | 21.94      | 30.00       | Pass   |
|                                   |         | H            | 5.28              | 19.33              | 2.52            | 22.09      |             |        |
|                                   | Middle  | V            | 5.55              | 19.50              | 2.60            | 22.45      | 30.00       | Pass   |
|                                   |         | H            | 5.37              | 19.50              | 2.60            | 22.27      |             |        |
|                                   | Highest | V            | 5.82              | 19.94              | 2.71            | 23.05      | 30.00       | Pass   |
|                                   |         | H            | 5.76              | 19.94              | 2.71            | 22.99      |             |        |
| LTE<br>BAND 25<br>15MHz<br>16QAM  | Lowest  | V            | 5.13              | 19.33              | 2.52            | 21.94      | 30.00       | Pass   |
|                                   |         | H            | 5.28              | 19.33              | 2.52            | 22.09      |             |        |
|                                   | Middle  | V            | 5.55              | 19.50              | 2.60            | 22.45      | 30.00       | Pass   |
|                                   |         | H            | 5.37              | 19.50              | 2.60            | 22.27      |             |        |
|                                   | Highest | V            | 5.82              | 19.94              | 2.71            | 23.05      | 30.00       | Pass   |
|                                   |         | H            | 5.76              | 19.94              | 2.71            | 22.99      |             |        |
| LTE<br>BAND 25<br>20MHz<br>16QAM  | Lowest  | V            | 5.13              | 19.33              | 2.52            | 21.94      | 30.00       | Pass   |
|                                   |         | H            | 5.28              | 19.33              | 2.52            | 22.09      |             |        |
|                                   | Middle  | V            | 5.55              | 19.50              | 2.60            | 22.45      | 30.00       | Pass   |
|                                   |         | H            | 5.37              | 19.50              | 2.60            | 22.27      |             |        |
|                                   | Highest | V            | 5.82              | 19.94              | 2.71            | 23.05      | 30.00       | Pass   |
|                                   |         | H            | 5.78              | 19.50              | 2.60            | 22.68      |             |        |



| EUT mode                   | Channel | Antenna Pol. | S.G. output (dBm) | Antenna Gain (dBd) | Cable Loss (dB) | EIRP (dBm) | Limit (dBm) | Result |
|----------------------------|---------|--------------|-------------------|--------------------|-----------------|------------|-------------|--------|
| LTE BAND 66<br>1.4MHz QPSK | Lowest  | V            | 5.52              | 19.35              | 2.54            | 22.33      | 33.00       | Pass   |
|                            |         | H            | 5.60              | 19.35              | 2.54            | 22.41      |             |        |
|                            | Middle  | V            | 6.44              | 19.51              | 2.62            | 23.33      | 33.00       | Pass   |
|                            |         | H            | 5.29              | 19.51              | 2.62            | 22.18      |             |        |
|                            | Highest | V            | 5.72              | 19.96              | 2.69            | 22.99      | 33.00       | Pass   |
|                            |         | H            | 5.68              | 19.96              | 2.69            | 22.95      |             |        |
| LTE BAND 66<br>3MHz QPSK   | Lowest  | V            | 5.40              | 19.35              | 2.54            | 22.21      | 33.00       | Pass   |
|                            |         | H            | 5.50              | 19.35              | 2.54            | 22.31      |             |        |
|                            | Middle  | V            | 5.32              | 19.51              | 2.62            | 22.21      | 33.00       | Pass   |
|                            |         | H            | 5.19              | 19.51              | 2.62            | 22.08      |             |        |
|                            | Highest | V            | 5.60              | 19.96              | 2.69            | 22.87      | 33.00       | Pass   |
|                            |         | H            | 5.59              | 19.96              | 2.69            | 22.86      |             |        |
| LTE BAND 66<br>5MHz QPSK   | Lowest  | V            | 5.59              | 19.35              | 2.54            | 22.40      | 33.00       | Pass   |
|                            |         | H            | 5.67              | 19.35              | 2.54            | 22.48      |             |        |
|                            | Middle  | V            | 6.52              | 19.51              | 2.62            | 23.41      | 33.00       | Pass   |
|                            |         | H            | 5.35              | 19.51              | 2.62            | 22.24      |             |        |
|                            | Highest | V            | 5.79              | 19.96              | 2.69            | 23.06      | 33.00       | Pass   |
|                            |         | H            | 5.75              | 19.96              | 2.69            | 23.02      |             |        |
| LTE BAND 66<br>10MHz QPSK  | Lowest  | V            | 5.47              | 19.35              | 2.54            | 22.28      | 33.00       | Pass   |
|                            |         | H            | 5.57              | 19.35              | 2.54            | 22.38      |             |        |
|                            | Middle  | V            | 5.38              | 19.51              | 2.62            | 22.27      | 33.00       | Pass   |
|                            |         | H            | 5.25              | 19.51              | 2.62            | 22.14      |             |        |
|                            | Highest | V            | 5.67              | 19.96              | 2.69            | 22.94      | 33.00       | Pass   |
|                            |         | H            | 5.66              | 19.96              | 2.69            | 22.93      |             |        |
| LTE BAND 66<br>15MHz QPSK  | Lowest  | V            | 5.57              | 19.35              | 2.54            | 22.38      | 33.00       | Pass   |
|                            |         | H            | 5.66              | 19.35              | 2.54            | 22.47      |             |        |
|                            | Middle  | V            | 5.50              | 19.51              | 2.62            | 22.39      | 33.00       | Pass   |
|                            |         | H            | 5.34              | 19.51              | 2.62            | 22.23      |             |        |
|                            | Highest | V            | 5.77              | 19.96              | 2.69            | 23.04      | 33.00       | Pass   |
|                            |         | H            | 5.74              | 19.96              | 2.69            | 23.01      |             |        |
| LTE BAND 66<br>20MHz QPSK  | Lowest  | V            | 5.59              | 19.35              | 2.54            | 22.40      | 33.00       | Pass   |
|                            |         | H            | 5.67              | 19.35              | 2.54            | 22.48      |             |        |
|                            | Middle  | V            | 5.52              | 19.51              | 2.62            | 22.41      | 33.00       | Pass   |
|                            |         | H            | 5.35              | 19.51              | 2.62            | 22.24      |             |        |
|                            | Highest | V            | 5.79              | 19.96              | 2.69            | 23.06      | 33.00       | Pass   |
|                            |         | H            | 5.75              | 19.96              | 2.69            | 23.02      |             |        |



| EUT mode                       | Channel | Antenna Pol. | S.G. output (dBm) | Antenna Gain (dBd) | Cable Loss (dB) | EIRP (dBm) | Limit (dBm) | Result |
|--------------------------------|---------|--------------|-------------------|--------------------|-----------------|------------|-------------|--------|
| LTE BAND 66<br>1.4MHz<br>16QAM | Lowest  | V            | 5.54              | 19.35              | 2.54            | 22.35      | 33.00       | Pass   |
|                                |         | H            | 5.62              | 19.35              | 2.54            | 22.43      |             |        |
|                                | Middle  | V            | 6.46              | 19.51              | 2.62            | 23.35      | 33.00       | Pass   |
|                                |         | H            | 5.30              | 19.51              | 2.62            | 22.19      |             |        |
|                                | Highest | V            | 5.74              | 19.96              | 2.69            | 23.01      | 33.00       | Pass   |
|                                |         | H            | 5.70              | 19.96              | 2.69            | 22.97      |             |        |
| LTE BAND 66<br>3MHz<br>16QAM   | Lowest  | V            | 5.42              | 19.35              | 2.54            | 22.23      | 33.00       | Pass   |
|                                |         | H            | 5.52              | 19.35              | 2.54            | 22.33      |             |        |
|                                | Middle  | V            | 5.33              | 19.51              | 2.62            | 22.22      | 33.00       | Pass   |
|                                |         | H            | 5.20              | 19.51              | 2.62            | 22.09      |             |        |
|                                | Highest | V            | 5.62              | 19.96              | 2.69            | 22.89      | 33.00       | Pass   |
|                                |         | H            | 5.61              | 19.96              | 2.69            | 22.88      |             |        |
| LTE BAND 66<br>5MHz<br>16QAM   | Lowest  | V            | 5.42              | 19.35              | 2.54            | 22.23      | 33.00       | Pass   |
|                                |         | H            | 5.51              | 19.35              | 2.54            | 22.32      |             |        |
|                                | Middle  | V            | 5.34              | 19.51              | 2.62            | 22.23      | 33.00       | Pass   |
|                                |         | H            | 5.20              | 19.51              | 2.62            | 22.09      |             |        |
|                                | Highest | V            | 5.61              | 19.96              | 2.69            | 22.88      | 33.00       | Pass   |
|                                |         | H            | 5.60              | 19.96              | 2.69            | 22.87      |             |        |
| LTE BAND 66<br>10MHz<br>16QAM  | Lowest  | V            | 5.51              | 19.35              | 2.54            | 22.32      | 33.00       | Pass   |
|                                |         | H            | 5.60              | 19.35              | 2.54            | 22.41      |             |        |
|                                | Middle  | V            | 5.44              | 19.51              | 2.62            | 22.33      | 33.00       | Pass   |
|                                |         | H            | 5.30              | 19.51              | 2.62            | 22.19      |             |        |
|                                | Highest | V            | 5.71              | 19.96              | 2.69            | 22.98      | 33.00       | Pass   |
|                                |         | H            | 5.68              | 19.96              | 2.69            | 22.95      |             |        |
| LTE BAND 66<br>15MHz<br>16QAM  | Lowest  | V            | 5.42              | 19.35              | 2.54            | 22.23      | 33.00       | Pass   |
|                                |         | H            | 5.51              | 19.35              | 2.54            | 22.32      |             |        |
|                                | Middle  | V            | 5.34              | 19.51              | 2.62            | 22.23      | 33.00       | Pass   |
|                                |         | H            | 5.20              | 19.51              | 2.62            | 22.09      |             |        |
|                                | Highest | V            | 5.61              | 19.96              | 2.69            | 22.88      | 33.00       | Pass   |
|                                |         | H            | 5.60              | 19.96              | 2.69            | 22.87      |             |        |
| LTE BAND 66<br>20MHz<br>16QAM  | Lowest  | V            | 5.51              | 19.35              | 2.54            | 22.32      | 33.00       | Pass   |
|                                |         | H            | 5.60              | 19.35              | 2.54            | 22.41      |             |        |
|                                | Middle  | V            | 5.59              | 19.51              | 2.62            | 22.48      | 33.00       | Pass   |
|                                |         | H            | 5.67              | 19.51              | 2.62            | 22.56      |             |        |
|                                | Highest | V            | 6.52              | 19.96              | 2.69            | 23.79      | 33.00       | Pass   |
|                                |         | H            | 5.35              | 19.96              | 2.69            | 22.62      |             |        |



## 5.2. Radiated Out of Band Emissions

### 5.2.1. Limit

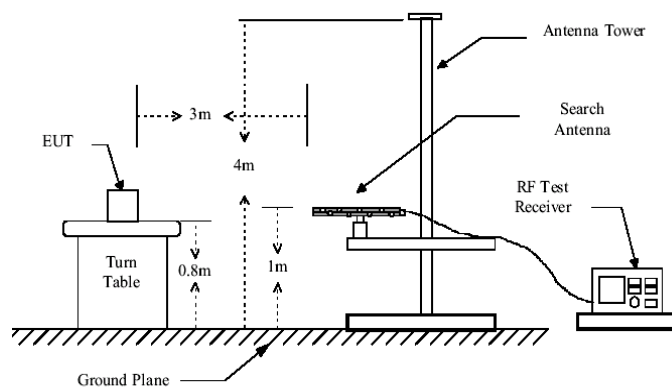
According to FCC section 22.917(a) and section 24.238(a), 27.53(g) 27.53(h), 27.53(c) the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power.

(P) by a factor of at least  $43+10*\log(P)$ dB. This calculated to be -13dBm.

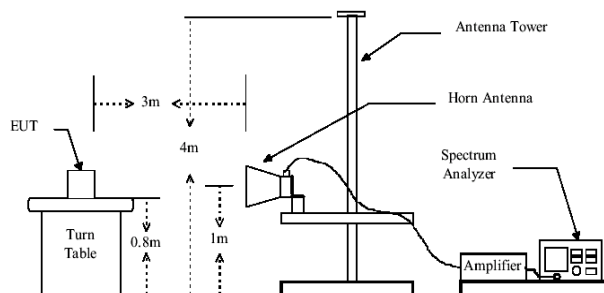
The spurious emission with frequency band 1900 according to FCC section 2.1057.

### 5.2.2. Test Setup

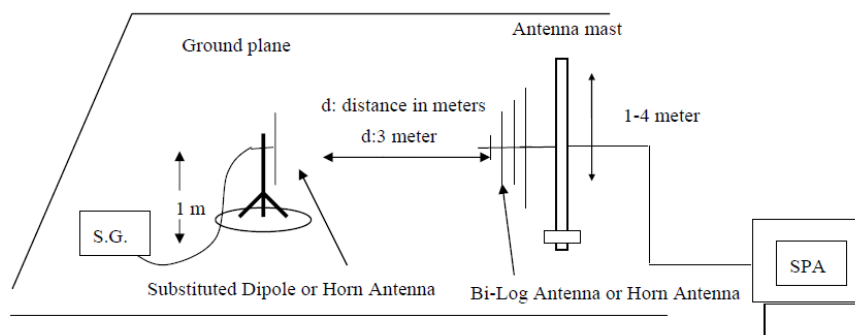
Below 1GHz



Above 1GHz



Substituted method:





#### 5.2.3. Measurement Procedure

The EUT was placed on a non-conductive, The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations. all test in Full-Anechoic Chamber.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$EIRP \text{ (Level)} = S.G. \text{ output (dBm)} + \text{Antenna Gain(dBi)} - \text{Cable Loss (dB)}$

Note: Measurement Uncertainty:  $\pm 3.6 \text{ dB}$ .

The data show only the worst results, and the other results are very low and not shown in the report.

#### 5.2.4. Test Result



| Band                      | Frequency (MHz) | Spurious Emission |                   |                    |                 |             | Limit (dBm) | Result |
|---------------------------|-----------------|-------------------|-------------------|--------------------|-----------------|-------------|-------------|--------|
|                           |                 | Polarization      | S.G. output (dBm) | Antenna Gain (dBi) | Cable Loss (dB) | Level (dBm) |             |        |
| LTE BAND 2 1.4MHz Lowest  | 87.15           | Vertical          | -75.40            | 3.35               | 0.38            | -72.43      | -13         | PASS   |
|                           | 3701.40         | Vertical          | -46.14            | 7.76               | 3.75            | -42.13      |             |        |
|                           | 5552.10         | Vertical          | -47.26            | 9.84               | 4.94            | -42.36      |             |        |
|                           | 7402.80         | Vertical          | -39.69            | 10.21              | 5.32            | -34.80      |             |        |
|                           | 9253.50         | Vertical          | -43.08            | 11.36              | 6.02            | -37.74      |             |        |
|                           | 11104.20        | Vertical          | -44.61            | 14.52              | 6.68            | -36.77      |             |        |
| LTE BAND 2 1.4MHz Middle  | 88.27           | Vertical          | -75.40            | 3.35               | 0.38            | -72.43      | -13         | PASS   |
|                           | 3760.00         | Vertical          | -47.47            | 7.76               | 3.75            | -43.46      |             |        |
|                           | 5640.00         | Vertical          | -47.07            | 9.84               | 4.94            | -42.17      |             |        |
|                           | 7520.00         | Vertical          | -42.69            | 10.21              | 5.32            | -37.80      |             |        |
|                           | 9400.00         | Vertical          | -42.10            | 11.36              | 6.02            | -36.76      |             |        |
|                           | 11280.00        | Vertical          | -46.04            | 14.52              | 6.68            | -38.20      |             |        |
| LTE BAND 2 1.4MHz Highest | 88.21           | Vertical          | -75.36            | 3.35               | 0.38            | -72.39      | -13         | PASS   |
|                           | 3819.60         | Vertical          | -47.07            | 7.79               | 3.53            | -42.81      |             |        |
|                           | 5729.40         | Vertical          | -41.53            | 9.88               | 5.02            | -36.67      |             |        |
|                           | 7639.20         | Vertical          | -37.73            | 10.25              | 5.54            | -33.02      |             |        |
|                           | 9549.00         | Vertical          | -44.58            | 11.38              | 6.16            | -39.36      |             |        |
|                           | 11458.80        | Vertical          | -47.01            | 14.56              | 6.72            | -39.17      |             |        |
| LTE BAND 2 3MHz Lowest    | 87.33           | Vertical          | -75.40            | 3.35               | 0.38            | -72.43      | -13         | PASS   |
|                           | 3700.40         | Vertical          | -46.14            | 7.76               | 3.75            | -42.13      |             |        |
|                           | 5550.60         | Vertical          | -46.94            | 9.84               | 4.94            | -42.04      |             |        |
|                           | 7400.80         | Vertical          | -39.43            | 10.21              | 5.32            | -34.54      |             |        |
|                           | 9251.00         | Vertical          | -42.79            | 11.36              | 6.02            | -37.45      |             |        |
|                           | 11101.20        | Vertical          | -44.31            | 14.52              | 6.68            | -36.47      |             |        |
| LTE BAND 2 3MHz Middle    | 88.32           | Vertical          | -74.98            | 3.35               | 0.38            | -72.01      | -13         | PASS   |
|                           | 3760.00         | Vertical          | -47.21            | 7.76               | 3.75            | -43.20      |             |        |
|                           | 5640.00         | Vertical          | -46.80            | 9.84               | 4.94            | -41.90      |             |        |
|                           | 7520.00         | Vertical          | -42.45            | 10.21              | 5.32            | -37.56      |             |        |
|                           | 9400.00         | Vertical          | -41.87            | 11.36              | 6.02            | -36.53      |             |        |
|                           | 11280.00        | Vertical          | -45.79            | 14.52              | 6.68            | -37.95      |             |        |
| LTE BAND 2 3MHz Highest   | 88.45           | Vertical          | -74.94            | 3.35               | 0.38            | -71.97      | -13         | PASS   |
|                           | 3819.60         | Vertical          | -46.80            | 7.79               | 3.53            | -42.54      |             |        |
|                           | 5729.40         | Vertical          | -41.30            | 9.88               | 5.02            | -36.44      |             |        |
|                           | 7639.20         | Vertical          | -37.52            | 10.25              | 5.54            | -32.81      |             |        |
|                           | 9549.00         | Vertical          | -44.33            | 11.38              | 6.16            | -39.11      |             |        |
|                           | 11458.80        | Vertical          | -46.75            | 14.56              | 6.72            | -38.91      |             |        |



| Band                     | Frequency (MHz) | Spurious Emission |                   |                    |                 |             | Limit (dBm) | Result |
|--------------------------|-----------------|-------------------|-------------------|--------------------|-----------------|-------------|-------------|--------|
|                          |                 | Polarization      | S.G. output (dBm) | Antenna Gain (dBi) | Cable Loss (dB) | Level (dBm) |             |        |
| LTE BAND 2 5MHz Lowest   | 87.54           | Vertical          | -75.02            | 3.35               | 0.38            | -72.05      | -13         | PASS   |
|                          | 3700.40         | Vertical          | -45.92            | 7.76               | 3.75            | -41.91      |             |        |
|                          | 5550.60         | Vertical          | -47.02            | 9.84               | 4.94            | -42.12      |             |        |
|                          | 7400.80         | Vertical          | -39.50            | 10.21              | 5.32            | -34.61      |             |        |
|                          | 9251.00         | Vertical          | -42.86            | 11.36              | 6.02            | -37.52      |             |        |
|                          | 11101.20        | Vertical          | -44.38            | 14.52              | 6.68            | -36.54      |             |        |
| LTE BAND 2 5MHz Middle   | 88.76           | Vertical          | -75.02            | 3.35               | 0.38            | -72.05      | -13         | PASS   |
|                          | 3760.00         | Vertical          | -47.23            | 7.76               | 3.75            | -43.22      |             |        |
|                          | 5640.00         | Vertical          | -46.83            | 9.84               | 4.94            | -41.93      |             |        |
|                          | 7520.00         | Vertical          | -42.47            | 10.21              | 5.32            | -37.58      |             |        |
|                          | 9400.00         | Vertical          | -41.89            | 11.36              | 6.02            | -36.55      |             |        |
|                          | 11280.00        | Vertical          | -45.82            | 14.52              | 6.68            | -37.98      |             |        |
| LTE BAND 2 5MHz Highest  | 88.56           | Vertical          | -74.98            | 3.35               | 0.38            | -72.01      | -13         | PASS   |
|                          | 3819.60         | Vertical          | -46.83            | 7.79               | 3.53            | -42.57      |             |        |
|                          | 5729.40         | Vertical          | -41.32            | 9.88               | 5.02            | -36.46      |             |        |
|                          | 7639.20         | Vertical          | -37.54            | 10.25              | 5.54            | -32.83      |             |        |
|                          | 9549.00         | Vertical          | -44.35            | 11.38              | 6.16            | -39.13      |             |        |
|                          | 11458.80        | Vertical          | -46.78            | 14.56              | 6.72            | -38.94      |             |        |
| LTE BAND 2 10MHz Lowest  | 87.23           | Vertical          | -75.02            | 3.35               | 0.38            | -72.05      | -13         | PASS   |
|                          | 3700.40         | Vertical          | -46.17            | 7.76               | 3.75            | -42.16      |             |        |
|                          | 5550.60         | Vertical          | -46.97            | 9.84               | 4.94            | -42.07      |             |        |
|                          | 7400.80         | Vertical          | -39.45            | 10.21              | 5.32            | -34.56      |             |        |
|                          | 9251.00         | Vertical          | -42.81            | 11.36              | 6.02            | -37.47      |             |        |
|                          | 11101.20        | Vertical          | -44.33            | 14.52              | 6.68            | -36.49      |             |        |
| LTE BAND 2 10MHz Middle  | 88.56           | Vertical          | -75.07            | 3.35               | 0.38            | -72.10      | -13         | PASS   |
|                          | 3760.00         | Vertical          | -47.26            | 7.76               | 3.75            | -43.25      |             |        |
|                          | 5640.00         | Vertical          | -46.86            | 9.84               | 4.94            | -41.96      |             |        |
|                          | 7520.00         | Vertical          | -42.50            | 10.21              | 5.32            | -37.61      |             |        |
|                          | 9400.00         | Vertical          | -41.91            | 11.36              | 6.02            | -36.57      |             |        |
|                          | 11280.00        | Vertical          | -45.85            | 14.52              | 6.68            | -38.01      |             |        |
| LTE BAND 2 10MHz Highest | 88.54           | Vertical          | -75.03            | 3.35               | 0.38            | -72.06      | -13         | PASS   |
|                          | 3819.60         | Vertical          | -46.86            | 7.79               | 3.53            | -42.60      |             |        |
|                          | 5729.40         | Vertical          | -41.35            | 9.88               | 5.02            | -36.49      |             |        |
|                          | 7639.20         | Vertical          | -37.56            | 10.25              | 5.54            | -32.85      |             |        |
|                          | 9549.00         | Vertical          | -44.38            | 11.38              | 6.16            | -39.16      |             |        |
|                          | 11458.80        | Vertical          | -46.81            | 14.56              | 6.72            | -38.97      |             |        |



| Band                     | Frequency (MHz) | Spurious Emission |                   |                    |                 |             | Limit (dBm) | Result |
|--------------------------|-----------------|-------------------|-------------------|--------------------|-----------------|-------------|-------------|--------|
|                          |                 | Polarization      | S.G. output (dBm) | Antenna Gain (dBi) | Cable Loss (dB) | Level (dBm) |             |        |
| LTE BAND 2 15MHz Lowest  | 87.41           | Vertical          | -74.84            | 3.35               | 0.38            | -71.87      | -13         | PASS   |
|                          | 3700.40         | Vertical          | -45.85            | 7.76               | 3.75            | -41.84      |             |        |
|                          | 5550.60         | Vertical          | -46.95            | 9.84               | 4.94            | -42.05      |             |        |
|                          | 7400.80         | Vertical          | -39.44            | 10.21              | 5.32            | -34.55      |             |        |
|                          | 9251.00         | Vertical          | -42.80            | 11.36              | 6.02            | -37.46      |             |        |
|                          | 11101.20        | Vertical          | -44.31            | 14.52              | 6.68            | -36.47      |             |        |
| LTE BAND 2 15MHz Middle  | 88.14           | Vertical          | -74.91            | 3.35               | 0.38            | -71.94      | -13         | PASS   |
|                          | 3760.00         | Vertical          | -47.16            | 7.76               | 3.75            | -43.15      |             |        |
|                          | 5640.00         | Vertical          | -46.76            | 9.84               | 4.94            | -41.86      |             |        |
|                          | 7520.00         | Vertical          | -42.41            | 10.21              | 5.32            | -37.52      |             |        |
|                          | 9400.00         | Vertical          | -41.83            | 11.36              | 6.02            | -36.49      |             |        |
|                          | 11280.00        | Vertical          | -45.75            | 14.52              | 6.68            | -37.91      |             |        |
| LTE BAND 2 15MHz Highest | 88.62           | Vertical          | -74.87            | 3.35               | 0.38            | -71.90      | -13         | PASS   |
|                          | 3819.60         | Vertical          | -46.76            | 7.79               | 3.53            | -42.50      |             |        |
|                          | 5729.40         | Vertical          | -41.26            | 9.88               | 5.02            | -36.40      |             |        |
|                          | 7639.20         | Vertical          | -37.48            | 10.25              | 5.54            | -32.77      |             |        |
|                          | 9549.00         | Vertical          | -44.28            | 11.38              | 6.16            | -39.06      |             |        |
|                          | 11458.80        | Vertical          | -46.71            | 14.56              | 6.72            | -38.87      |             |        |
| LTE BAND 2 20MHz Lowest  | 87.53           | Vertical          | -74.88            | 3.35               | 0.38            | -71.91      | -13         | PASS   |
|                          | 3700.40         | Vertical          | -45.83            | 7.76               | 3.75            | -41.82      |             |        |
|                          | 5550.60         | Vertical          | -46.93            | 9.84               | 4.94            | -42.03      |             |        |
|                          | 7400.80         | Vertical          | -39.43            | 10.21              | 5.32            | -34.54      |             |        |
|                          | 9251.00         | Vertical          | -42.78            | 11.36              | 6.02            | -37.44      |             |        |
|                          | 11101.20        | Vertical          | -44.30            | 14.52              | 6.68            | -36.46      |             |        |
| LTE BAND 2 20MHz Middle  | 88.65           | Vertical          | -74.88            | 3.35               | 0.38            | -71.91      | -13         | PASS   |
|                          | 3760.00         | Vertical          | -47.14            | 7.76               | 3.75            | -43.13      |             |        |
|                          | 5640.00         | Vertical          | -46.74            | 9.84               | 4.94            | -41.84      |             |        |
|                          | 7520.00         | Vertical          | -42.39            | 10.21              | 5.32            | -37.50      |             |        |
|                          | 9400.00         | Vertical          | -41.81            | 11.36              | 6.02            | -36.47      |             |        |
|                          | 11280.00        | Vertical          | -45.73            | 14.52              | 6.68            | -37.89      |             |        |
| LTE BAND 2 20MHz Highest | 88.34           | Vertical          | -74.84            | 3.35               | 0.38            | -71.87      | -13         | PASS   |
|                          | 3819.60         | Vertical          | -46.74            | 7.79               | 3.53            | -42.48      |             |        |
|                          | 5729.40         | Vertical          | -41.24            | 9.88               | 5.02            | -36.38      |             |        |
|                          | 7639.20         | Vertical          | -37.46            | 10.25              | 5.54            | -32.75      |             |        |
|                          | 9549.00         | Vertical          | -44.26            | 11.38              | 6.16            | -39.04      |             |        |
|                          | 11458.80        | Vertical          | -46.69            | 14.56              | 6.72            | -38.85      |             |        |



| Band                      | Frequency (MHz) | Spurious Emission |                   |                    |                 |             | Limit (dBm) | Result |
|---------------------------|-----------------|-------------------|-------------------|--------------------|-----------------|-------------|-------------|--------|
|                           |                 | Polarization      | S.G. output (dBm) | Antenna Gain (dBi) | Cable Loss (dB) | Level (dBm) |             |        |
| LTE BAND 4 1.4MHz Lowest  | 87.28           | Vertical          | -74.99            | 3.35               | 0.38            | -72.02      | -13         | PASS   |
|                           | 3421.40         | Vertical          | -45.89            | 7.76               | 3.75            | -41.88      |             |        |
|                           | 5132.10         | Vertical          | -47.00            | 9.84               | 4.94            | -42.10      |             |        |
|                           | 6842.80         | Vertical          | -39.48            | 10.21              | 5.32            | -34.59      |             |        |
|                           | 8553.50         | Vertical          | -42.84            | 11.36              | 6.02            | -37.50      |             |        |
|                           | 10264.20        | Vertical          | -44.37            | 14.52              | 6.68            | -36.53      |             |        |
| LTE BAND 4 1.4MHz Middle  | 88.21           | Vertical          | -74.99            | 3.35               | 0.38            | -72.02      | -13         | PASS   |
|                           | 3465.00         | Vertical          | -47.20            | 7.76               | 3.75            | -43.19      |             |        |
|                           | 5197.50         | Vertical          | -46.81            | 9.84               | 4.94            | -41.91      |             |        |
|                           | 6930.00         | Vertical          | -42.45            | 10.21              | 5.32            | -37.56      |             |        |
|                           | 8662.50         | Vertical          | -41.86            | 11.36              | 6.02            | -36.52      |             |        |
|                           | 10395.00        | Vertical          | -45.80            | 14.52              | 6.68            | -37.96      |             |        |
| LTE BAND 4 1.4MHz Highest | 88.43           | Vertical          | -74.95            | 3.35               | 0.38            | -71.98      | -13         | PASS   |
|                           | 3508.60         | Vertical          | -46.81            | 7.79               | 3.53            | -42.55      |             |        |
|                           | 5262.90         | Vertical          | -41.30            | 9.88               | 5.02            | -36.44      |             |        |
|                           | 7017.20         | Vertical          | -37.52            | 10.25              | 5.54            | -32.81      |             |        |
|                           | 8771.50         | Vertical          | -44.34            | 11.38              | 6.16            | -39.12      |             |        |
|                           | 10525.80        | Vertical          | -46.76            | 14.56              | 6.72            | -38.92      |             |        |
| LTE BAND 4 3MHz Lowest    | 87.45           | Vertical          | -75.02            | 3.35               | 0.38            | -72.05      | -13         | PASS   |
|                           | 3423.00         | Vertical          | -45.91            | 7.76               | 3.75            | -41.90      |             |        |
|                           | 5134.50         | Vertical          | -47.02            | 9.84               | 4.94            | -42.12      |             |        |
|                           | 6846.00         | Vertical          | -39.49            | 10.21              | 5.32            | -34.60      |             |        |
|                           | 8557.50         | Vertical          | -42.86            | 11.36              | 6.02            | -37.52      |             |        |
|                           | 10269.00        | Vertical          | -44.38            | 14.52              | 6.68            | -36.54      |             |        |
| LTE BAND 4 3MHz Middle    | 88.21           | Vertical          | -75.04            | 3.35               | 0.38            | -72.07      | -13         | PASS   |
|                           | 3508.60         | Vertical          | -47.22            | 7.76               | 3.75            | -43.21      |             |        |
|                           | 5262.90         | Vertical          | -46.83            | 9.84               | 4.94            | -41.93      |             |        |
|                           | 7017.20         | Vertical          | -42.47            | 10.21              | 5.32            | -37.58      |             |        |
|                           | 8771.50         | Vertical          | -41.88            | 11.36              | 6.02            | -36.54      |             |        |
|                           | 10525.80        | Vertical          | -45.82            | 14.52              | 6.68            | -37.98      |             |        |
| LTE BAND 4 3MHz Highest   | 88.33           | Vertical          | -74.98            | 3.35               | 0.38            | -72.01      | -13         | PASS   |
|                           | 3507.00         | Vertical          | -46.83            | 7.79               | 3.53            | -42.57      |             |        |
|                           | 5260.50         | Vertical          | -41.32            | 9.88               | 5.02            | -36.46      |             |        |
|                           | 7014.00         | Vertical          | -37.54            | 10.25              | 5.54            | -32.83      |             |        |
|                           | 8767.50         | Vertical          | -44.35            | 11.38              | 6.16            | -39.13      |             |        |
|                           | 10521.00        | Vertical          | -46.78            | 14.56              | 6.72            | -38.94      |             |        |



| Band                     | Frequency (MHz) | Spurious Emission |                   |                    |                 |             | Limit (dBm) | Result |
|--------------------------|-----------------|-------------------|-------------------|--------------------|-----------------|-------------|-------------|--------|
|                          |                 | Polarization      | S.G. output (dBm) | Antenna Gain (dBi) | Cable Loss (dB) | Level (dBm) |             |        |
| LTE BAND 4 5MHz Lowest   | 87.34           | Vertical          | -74.96            | 3.35               | 0.38            | -71.99      | -13         | PASS   |
|                          | 3425.00         | Vertical          | -45.88            | 7.76               | 3.75            | -41.87      |             |        |
|                          | 5137.50         | Vertical          | -46.98            | 9.84               | 4.94            | -42.08      |             |        |
|                          | 6850.00         | Vertical          | -39.47            | 10.21              | 5.32            | -34.58      |             |        |
|                          | 8562.50         | Vertical          | -42.83            | 11.36              | 6.02            | -37.49      |             |        |
|                          | 10275.00        | Vertical          | -44.35            | 14.52              | 6.68            | -36.51      |             |        |
| LTE BAND 4 5MHz Middle   | 88.24           | Vertical          | -74.96            | 3.35               | 0.38            | -71.99      | -13         | PASS   |
|                          | 3423.00         | Vertical          | -47.19            | 7.76               | 3.75            | -43.18      |             |        |
|                          | 5134.50         | Vertical          | -46.79            | 9.84               | 4.94            | -41.89      |             |        |
|                          | 6846.00         | Vertical          | -42.45            | 10.21              | 5.32            | -37.56      |             |        |
|                          | 8557.50         | Vertical          | -41.86            | 11.36              | 6.02            | -36.52      |             |        |
|                          | 10269.00        | Vertical          | -45.78            | 14.52              | 6.68            | -37.94      |             |        |
| LTE BAND 4 5MHz Highest  | 88.34           | Vertical          | -74.92            | 3.35               | 0.38            | -71.95      | -13         | PASS   |
|                          | 3505.00         | Vertical          | -46.79            | 7.79               | 3.53            | -42.53      |             |        |
|                          | 5257.50         | Vertical          | -41.29            | 9.88               | 5.02            | -36.43      |             |        |
|                          | 7010.00         | Vertical          | -37.52            | 10.25              | 5.54            | -32.81      |             |        |
|                          | 8762.50         | Vertical          | -44.32            | 11.38              | 6.16            | -39.10      |             |        |
|                          | 10515.00        | Vertical          | -46.74            | 14.56              | 6.72            | -38.90      |             |        |
| LTE BAND 4 10MHz Lowest  | 87.21           | Vertical          | -74.90            | 3.35               | 0.38            | -71.93      | -13         | PASS   |
|                          | 3430.00         | Vertical          | -45.84            | 7.76               | 3.75            | -41.83      |             |        |
|                          | 5145.00         | Vertical          | -46.95            | 9.84               | 4.94            | -42.05      |             |        |
|                          | 6860.00         | Vertical          | -39.45            | 10.21              | 5.32            | -34.56      |             |        |
|                          | 8575.00         | Vertical          | -42.80            | 11.36              | 6.02            | -37.46      |             |        |
|                          | 10290.00        | Vertical          | -44.32            | 14.52              | 6.68            | -36.48      |             |        |
| LTE BAND 4 10MHz Middle  | 88.41           | Vertical          | -74.85            | 3.35               | 0.38            | -71.88      | -13         | PASS   |
|                          | 3505.00         | Vertical          | -47.16            | 7.76               | 3.75            | -43.15      |             |        |
|                          | 5257.50         | Vertical          | -46.76            | 9.84               | 4.94            | -41.86      |             |        |
|                          | 7010.00         | Vertical          | -42.42            | 10.21              | 5.32            | -37.53      |             |        |
|                          | 8762.50         | Vertical          | -41.83            | 11.36              | 6.02            | -36.49      |             |        |
|                          | 10515.00        | Vertical          | -45.74            | 14.52              | 6.68            | -37.90      |             |        |
| LTE BAND 4 10MHz Highest | 88.34           | Vertical          | -74.86            | 3.35               | 0.38            | -71.89      | -13         | PASS   |
|                          | 3500.00         | Vertical          | -46.76            | 7.79               | 3.53            | -42.50      |             |        |
|                          | 5250.00         | Vertical          | -41.26            | 9.88               | 5.02            | -36.40      |             |        |
|                          | 7000.00         | Vertical          | -37.49            | 10.25              | 5.54            | -32.78      |             |        |
|                          | 8750.00         | Vertical          | -44.29            | 11.38              | 6.16            | -39.07      |             |        |
|                          | 10500.00        | Vertical          | -46.71            | 14.56              | 6.72            | -38.87      |             |        |



| Band                     | Frequency (MHz) | Spurious Emission |                   |                    |                 |             | Limit (dBm) | Result |
|--------------------------|-----------------|-------------------|-------------------|--------------------|-----------------|-------------|-------------|--------|
|                          |                 | Polarization      | S.G. output (dBm) | Antenna Gain (dBi) | Cable Loss (dB) | Level (dBm) |             |        |
| LTE BAND 4 15MHz Lowest  | 87.32           | Vertical          | -74.86            | 3.35               | 0.38            | -71.89      | -13         | PASS   |
|                          | 3435.00         | Vertical          | -45.81            | 7.76               | 3.75            | -41.80      |             |        |
|                          | 5152.50         | Vertical          | -46.92            | 9.84               | 4.94            | -42.02      |             |        |
|                          | 6870.00         | Vertical          | -39.43            | 10.21              | 5.32            | -34.54      |             |        |
|                          | 8587.50         | Vertical          | -42.78            | 11.36              | 6.02            | -37.44      |             |        |
|                          | 10305.00        | Vertical          | -44.30            | 14.52              | 6.68            | -36.46      |             |        |
| LTE BAND 4 15MHz Middle  | 88.32           | Vertical          | -74.86            | 3.35               | 0.38            | -71.89      | -13         | PASS   |
|                          | 3505.00         | Vertical          | -47.13            | 7.76               | 3.75            | -43.12      |             |        |
|                          | 5257.50         | Vertical          | -46.74            | 9.84               | 4.94            | -41.84      |             |        |
|                          | 7010.00         | Vertical          | -42.39            | 10.21              | 5.32            | -37.50      |             |        |
|                          | 8762.50         | Vertical          | -41.81            | 11.36              | 6.02            | -36.47      |             |        |
|                          | 10515.00        | Vertical          | -45.71            | 14.52              | 6.68            | -37.87      |             |        |
| LTE BAND 4 15MHz Highest | 88.32           | Vertical          | -74.82            | 3.35               | 0.38            | -71.85      | -13         | PASS   |
|                          | 3495.00         | Vertical          | -46.74            | 7.79               | 3.53            | -42.48      |             |        |
|                          | 5242.50         | Vertical          | -41.23            | 9.88               | 5.02            | -36.37      |             |        |
|                          | 6990.00         | Vertical          | -37.46            | 10.25              | 5.54            | -32.75      |             |        |
|                          | 8737.50         | Vertical          | -44.27            | 11.38              | 6.16            | -39.05      |             |        |
|                          | 10485.00        | Vertical          | -46.69            | 14.56              | 6.72            | -38.85      |             |        |
| LTE BAND 4 20MHz Lowest  | 87.34           | Vertical          | -74.90            | 3.35               | 0.38            | -71.93      | -13         | PASS   |
|                          | 3440.00         | Vertical          | -45.84            | 7.76               | 3.75            | -41.83      |             |        |
|                          | 5160.00         | Vertical          | -46.94            | 9.84               | 4.94            | -42.04      |             |        |
|                          | 6880.00         | Vertical          | -39.44            | 10.21              | 5.32            | -34.55      |             |        |
|                          | 8600.00         | Vertical          | -42.80            | 11.36              | 6.02            | -37.46      |             |        |
|                          | 10320.00        | Vertical          | -44.32            | 14.52              | 6.68            | -36.48      |             |        |
| LTE BAND 4 20MHz Middle  | 88.45           | Vertical          | -74.95            | 3.35               | 0.38            | -71.98      | -13         | PASS   |
|                          | 3505.00         | Vertical          | -47.15            | 7.76               | 3.75            | -43.14      |             |        |
|                          | 5257.50         | Vertical          | -46.76            | 9.84               | 4.94            | -41.86      |             |        |
|                          | 7010.00         | Vertical          | -42.41            | 10.21              | 5.32            | -37.52      |             |        |
|                          | 8762.50         | Vertical          | -41.83            | 11.36              | 6.02            | -36.49      |             |        |
|                          | 10515.00        | Vertical          | -45.74            | 14.52              | 6.68            | -37.90      |             |        |
| LTE BAND 4 20MHz Highest | 88.56           | Vertical          | -74.86            | 3.35               | 0.38            | -71.89      | -13         | PASS   |
|                          | 3490.00         | Vertical          | -46.76            | 7.79               | 3.53            | -42.50      |             |        |
|                          | 5235.00         | Vertical          | -41.25            | 9.88               | 5.02            | -36.39      |             |        |
|                          | 6980.00         | Vertical          | -37.48            | 10.25              | 5.54            | -32.77      |             |        |
|                          | 8725.00         | Vertical          | -44.29            | 11.38              | 6.16            | -39.07      |             |        |
|                          | 10470.00        | Vertical          | -46.71            | 14.56              | 6.72            | -38.87      |             |        |



| Band                      | Frequency (MHz) | Spurious Emission |                   |                    |                 |             | Limit (dBm) | Result |
|---------------------------|-----------------|-------------------|-------------------|--------------------|-----------------|-------------|-------------|--------|
|                           |                 | Polarization      | S.G. output (dBm) | Antenna Gain (dBi) | Cable Loss (dB) | Level (dBm) |             |        |
| LTE BAND 5 1.4MHz Lowest  | 87.45           | Vertical          | -74.92            | 3.35               | 0.38            | -71.95      | -13         | PASS   |
|                           | 3700.40         | Vertical          | -45.86            | 7.76               | 3.75            | -41.85      |             |        |
|                           | 5550.60         | Vertical          | -46.96            | 9.84               | 4.94            | -42.06      |             |        |
|                           | 7400.80         | Vertical          | -39.45            | 10.21              | 5.32            | -34.56      |             |        |
|                           | 9251.00         | Vertical          | -42.81            | 11.36              | 6.02            | -37.47      |             |        |
|                           | 11101.20        | Vertical          | -44.33            | 14.52              | 6.68            | -36.49      |             |        |
| LTE BAND 5 1.4MHz Middle  | 88.21           | Vertical          | -74.92            | 3.35               | 0.38            | -71.95      | -13         | PASS   |
|                           | 3760.00         | Vertical          | -47.17            | 7.76               | 3.75            | -43.16      |             |        |
|                           | 5640.00         | Vertical          | -46.77            | 9.84               | 4.94            | -41.87      |             |        |
|                           | 7520.00         | Vertical          | -42.42            | 10.21              | 5.32            | -37.53      |             |        |
|                           | 9400.00         | Vertical          | -41.84            | 11.36              | 6.02            | -36.50      |             |        |
|                           | 11280.00        | Vertical          | -45.76            | 14.52              | 6.68            | -37.92      |             |        |
| LTE BAND 5 1.4MHz Highest | 88.77           | Vertical          | -74.88            | 3.35               | 0.38            | -71.91      | -13         | PASS   |
|                           | 3819.60         | Vertical          | -46.77            | 7.79               | 3.53            | -42.51      |             |        |
|                           | 5729.40         | Vertical          | -41.26            | 9.88               | 5.02            | -36.40      |             |        |
|                           | 7639.20         | Vertical          | -37.49            | 10.25              | 5.54            | -32.78      |             |        |
|                           | 9549.00         | Vertical          | -44.30            | 11.38              | 6.16            | -39.08      |             |        |
|                           | 11458.80        | Vertical          | -46.72            | 14.56              | 6.72            | -38.88      |             |        |
| LTE BAND 5 3MHz Lowest    | 87.98           | Vertical          | -74.87            | 3.35               | 0.38            | -71.90      | -13         | PASS   |
|                           | 3700.40         | Vertical          | -45.82            | 7.76               | 3.75            | -41.81      |             |        |
|                           | 5550.60         | Vertical          | -46.93            | 9.84               | 4.94            | -42.03      |             |        |
|                           | 7400.80         | Vertical          | -39.43            | 10.21              | 5.32            | -34.54      |             |        |
|                           | 9251.00         | Vertical          | -42.78            | 11.36              | 6.02            | -37.44      |             |        |
|                           | 11101.20        | Vertical          | -44.30            | 14.52              | 6.68            | -36.46      |             |        |
| LTE BAND 5 3MHz Middle    | 88.78           | Vertical          | -75.00            | 3.35               | 0.38            | -72.03      | -13         | PASS   |
|                           | 3760.00         | Vertical          | -47.22            | 7.76               | 3.75            | -43.21      |             |        |
|                           | 5640.00         | Vertical          | -46.82            | 9.84               | 4.94            | -41.92      |             |        |
|                           | 7520.00         | Vertical          | -42.47            | 10.21              | 5.32            | -37.58      |             |        |
|                           | 9400.00         | Vertical          | -41.88            | 11.36              | 6.02            | -36.54      |             |        |
|                           | 11280.00        | Vertical          | -45.80            | 14.52              | 6.68            | -37.96      |             |        |
| LTE BAND 5 3MHz Highest   | 88.67           | Vertical          | -74.96            | 3.35               | 0.38            | -71.99      | -13         | PASS   |
|                           | 3819.60         | Vertical          | -46.82            | 7.79               | 3.53            | -42.56      |             |        |
|                           | 5729.40         | Vertical          | -41.30            | 9.88               | 5.02            | -36.44      |             |        |
|                           | 7639.20         | Vertical          | -37.53            | 10.25              | 5.54            | -32.82      |             |        |
|                           | 9549.00         | Vertical          | -44.35            | 11.38              | 6.16            | -39.13      |             |        |
|                           | 11458.80        | Vertical          | -46.77            | 14.56              | 6.72            | -38.93      |             |        |



| Band                     | Frequency (MHz) | Spurious Emission |                   |                    |                 |             | Limit (dBm) | Result |
|--------------------------|-----------------|-------------------|-------------------|--------------------|-----------------|-------------|-------------|--------|
|                          |                 | Polarization      | S.G. output (dBm) | Antenna Gain (dBi) | Cable Loss (dB) | Level (dBm) |             |        |
| LTE BAND 5 5MHz Lowest   | 87.66           | Vertical          | -74.48            | 3.35               | 0.38            | -71.51      | -13         | PASS   |
|                          | 3700.40         | Vertical          | -45.58            | 7.76               | 3.75            | -41.57      |             |        |
|                          | 5550.60         | Vertical          | -46.68            | 9.84               | 4.94            | -41.78      |             |        |
|                          | 7400.80         | Vertical          | -39.22            | 10.21              | 5.32            | -34.33      |             |        |
|                          | 9251.00         | Vertical          | -42.56            | 11.36              | 6.02            | -37.22      |             |        |
|                          | 11101.20        | Vertical          | -44.07            | 14.52              | 6.68            | -36.23      |             |        |
| LTE BAND 5 5MHz Middle   | 88.32           | Vertical          | -74.48            | 3.35               | 0.38            | -71.51      | -13         | PASS   |
|                          | 3760.00         | Vertical          | -46.89            | 7.76               | 3.75            | -42.88      |             |        |
|                          | 5640.00         | Vertical          | -46.50            | 9.84               | 4.94            | -41.60      |             |        |
|                          | 7520.00         | Vertical          | -42.17            | 10.21              | 5.32            | -37.28      |             |        |
|                          | 9400.00         | Vertical          | -41.58            | 11.36              | 6.02            | -36.24      |             |        |
|                          | 11280.00        | Vertical          | -45.48            | 14.52              | 6.68            | -37.64      |             |        |
| LTE BAND 5 5MHz Highest  | 88.32           | Vertical          | -74.44            | 3.35               | 0.38            | -71.47      | -13         | PASS   |
|                          | 3819.60         | Vertical          | -46.50            | 7.79               | 3.53            | -42.24      |             |        |
|                          | 5729.40         | Vertical          | -41.02            | 9.88               | 5.02            | -36.16      |             |        |
|                          | 7639.20         | Vertical          | -37.27            | 10.25              | 5.54            | -32.56      |             |        |
|                          | 9549.00         | Vertical          | -44.04            | 11.38              | 6.16            | -38.82      |             |        |
|                          | 11458.80        | Vertical          | -46.45            | 14.56              | 6.72            | -38.61      |             |        |
| LTE BAND 5 10MHz Lowest  | 87.23           | Vertical          | -74.51            | 3.35               | 0.38            | -71.54      | -13         | PASS   |
|                          | 3700.40         | Vertical          | -45.60            | 7.76               | 3.75            | -41.59      |             |        |
|                          | 5550.60         | Vertical          | -46.69            | 9.84               | 4.94            | -41.79      |             |        |
|                          | 7400.80         | Vertical          | -39.23            | 10.21              | 5.32            | -34.34      |             |        |
|                          | 9251.00         | Vertical          | -42.58            | 11.36              | 6.02            | -37.24      |             |        |
|                          | 11101.20        | Vertical          | -44.09            | 14.52              | 6.68            | -36.25      |             |        |
| LTE BAND 5 10MHz Middle  | 88.21           | Vertical          | -74.58            | 3.35               | 0.38            | -71.61      | -13         | PASS   |
|                          | 3760.00         | Vertical          | -46.95            | 7.76               | 3.75            | -42.94      |             |        |
|                          | 5640.00         | Vertical          | -46.55            | 9.84               | 4.94            | -41.65      |             |        |
|                          | 7520.00         | Vertical          | -42.24            | 10.21              | 5.32            | -37.35      |             |        |
|                          | 9400.00         | Vertical          | -41.64            | 11.36              | 6.02            | -36.30      |             |        |
|                          | 11280.00        | Vertical          | -45.54            | 14.52              | 6.68            | -37.70      |             |        |
| LTE BAND 5 10MHz Highest | 88.15           | Vertical          | -74.54            | 3.35               | 0.38            | -71.57      | -13         | PASS   |
|                          | 3819.60         | Vertical          | -46.55            | 7.79               | 3.53            | -42.29      |             |        |
|                          | 5729.40         | Vertical          | -41.08            | 9.88               | 5.02            | -36.22      |             |        |
|                          | 7639.20         | Vertical          | -37.33            | 10.25              | 5.54            | -32.62      |             |        |
|                          | 9549.00         | Vertical          | -44.10            | 11.38              | 6.16            | -38.88      |             |        |
|                          | 11458.80        | Vertical          | -46.50            | 14.56              | 6.72            | -38.66      |             |        |



| Band                       | Frequency (MHz) | Spurious Emission |                   |                    |                 |             | Limit (dBm) | Result |
|----------------------------|-----------------|-------------------|-------------------|--------------------|-----------------|-------------|-------------|--------|
|                            |                 | Polarization      | S.G. output (dBm) | Antenna Gain (dBi) | Cable Loss (dB) | Level (dBm) |             |        |
| LTE BAND 12 1.4MHz Lowest  | 87.89           | Vertical          | -74.75            | 3.35               | 0.38            | -71.78      | -13         | PASS   |
|                            | 5005.00         | Vertical          | -45.72            | 7.76               | 3.75            | -41.71      |             |        |
|                            | 7507.50         | Vertical          | -46.82            | 9.84               | 4.94            | -41.92      |             |        |
|                            | 10010.00        | Vertical          | -39.34            | 10.21              | 5.32            | -34.45      |             |        |
|                            | 12512.50        | Vertical          | -42.69            | 11.36              | 6.02            | -37.35      |             |        |
|                            | 15015.00        | Vertical          | -44.21            | 14.52              | 6.68            | -36.37      |             |        |
| LTE BAND 12 1.4MHz Middle  | 87.87           | Vertical          | -74.71            | 3.35               | 0.38            | -71.74      | -13         | PASS   |
|                            | 5070.00         | Vertical          | -47.04            | 7.76               | 3.75            | -43.03      |             |        |
|                            | 7605.00         | Vertical          | -46.63            | 9.84               | 4.94            | -41.73      |             |        |
|                            | 10140.00        | Vertical          | -42.30            | 10.21              | 5.32            | -37.41      |             |        |
|                            | 12675.00        | Vertical          | -41.71            | 11.36              | 6.02            | -36.37      |             |        |
|                            | 15210.00        | Vertical          | -45.62            | 14.52              | 6.68            | -37.78      |             |        |
| LTE BAND 12 1.4MHz Highest | 88.87           | Vertical          | -74.67            | 3.35               | 0.38            | -71.70      | -13         | PASS   |
|                            | 5135.00         | Vertical          | -46.63            | 7.79               | 3.53            | -42.37      |             |        |
|                            | 7702.50         | Vertical          | -41.15            | 9.88               | 5.02            | -36.29      |             |        |
|                            | 10270.00        | Vertical          | -37.39            | 10.25              | 5.54            | -32.68      |             |        |
|                            | 12837.50        | Vertical          | -44.18            | 11.38              | 6.16            | -38.96      |             |        |
|                            | 15405.00        | Vertical          | -46.58            | 14.56              | 6.72            | -38.74      |             |        |
| LTE BAND 12 3MHz Lowest    | 87.53           | Vertical          | -73.87            | 3.35               | 0.38            | -70.90      | -13         | PASS   |
|                            | 5010.00         | Vertical          | -45.21            | 7.76               | 3.75            | -41.20      |             |        |
|                            | 7515.00         | Vertical          | -46.29            | 9.84               | 4.94            | -41.39      |             |        |
|                            | 10020.00        | Vertical          | -38.90            | 10.21              | 5.32            | -34.01      |             |        |
|                            | 12525.00        | Vertical          | -42.21            | 11.36              | 6.02            | -36.87      |             |        |
|                            | 15030.00        | Vertical          | -43.71            | 14.52              | 6.68            | -35.87      |             |        |
| LTE BAND 12 3MHz Middle    | 88.23           | Vertical          | -74.77            | 3.35               | 0.38            | -71.80      | -13         | PASS   |
|                            | 5070.00         | Vertical          | -47.07            | 7.76               | 3.75            | -43.06      |             |        |
|                            | 7605.00         | Vertical          | -46.67            | 9.84               | 4.94            | -41.77      |             |        |
|                            | 10140.00        | Vertical          | -42.34            | 10.21              | 5.32            | -37.45      |             |        |
|                            | 12675.00        | Vertical          | -41.76            | 11.36              | 6.02            | -36.42      |             |        |
|                            | 15210.00        | Vertical          | -45.66            | 14.52              | 6.68            | -37.82      |             |        |
| LTE BAND 12 3MHz Highest   | 88.23           | Vertical          | -74.73            | 3.35               | 0.38            | -71.76      | -13         | PASS   |
|                            | 5130.00         | Vertical          | -46.67            | 7.79               | 3.53            | -42.41      |             |        |
|                            | 7695.00         | Vertical          | -41.18            | 9.88               | 5.02            | -36.32      |             |        |
|                            | 10260.00        | Vertical          | -37.42            | 10.25              | 5.54            | -32.71      |             |        |
|                            | 12825.00        | Vertical          | -44.22            | 11.38              | 6.16            | -39.00      |             |        |
|                            | 15390.00        | Vertical          | -46.62            | 14.56              | 6.72            | -38.78      |             |        |



| Band                               | Frequency (MHz) | Spurious Emission |                   |                    |                 |             | Limit (dBm) | Result |
|------------------------------------|-----------------|-------------------|-------------------|--------------------|-----------------|-------------|-------------|--------|
|                                    |                 | Polarization      | S.G. output (dBm) | Antenna Gain (dBi) | Cable Loss (dB) | Level (dBm) |             |        |
| LTE<br>BAND 12<br>5MHz<br>Lowest   | 87.12           | Vertical          | -74.45            | 3.35               | 0.38            | -71.48      | -13         | PASS   |
|                                    | 5015.00         | Vertical          | -45.57            | 7.76               | 3.75            | -41.56      |             |        |
|                                    | 7522.50         | Vertical          | -46.66            | 9.84               | 4.94            | -41.76      |             |        |
|                                    | 10030.00        | Vertical          | -39.21            | 10.21              | 5.32            | -34.32      |             |        |
|                                    | 12537.50        | Vertical          | -42.54            | 11.36              | 6.02            | -37.20      |             |        |
|                                    | 15045.00        | Vertical          | -44.06            | 14.52              | 6.68            | -36.22      |             |        |
| LTE<br>BAND 12<br>5MHz<br>Middle   | 88.87           | Vertical          | -74.45            | 3.35               | 0.38            | -71.48      | -13         | PASS   |
|                                    | 5070.00         | Vertical          | -46.87            | 7.76               | 3.75            | -42.86      |             |        |
|                                    | 7605.00         | Vertical          | -46.47            | 9.84               | 4.94            | -41.57      |             |        |
|                                    | 10140.00        | Vertical          | -42.16            | 10.21              | 5.32            | -37.27      |             |        |
|                                    | 12675.00        | Vertical          | -41.57            | 11.36              | 6.02            | -36.23      |             |        |
|                                    | 15210.00        | Vertical          | -45.47            | 14.52              | 6.68            | -37.63      |             |        |
| LTE<br>BAND 12<br>5MHz<br>Highest  | 88.29           | Vertical          | -74.41            | 3.35               | 0.38            | -71.44      | -13         | PASS   |
|                                    | 5125.00         | Vertical          | -46.47            | 7.79               | 3.53            | -42.21      |             |        |
|                                    | 7687.50         | Vertical          | -41.01            | 9.88               | 5.02            | -36.15      |             |        |
|                                    | 10250.00        | Vertical          | -37.27            | 10.25              | 5.54            | -32.56      |             |        |
|                                    | 12812.50        | Vertical          | -44.03            | 11.38              | 6.16            | -38.81      |             |        |
|                                    | 15375.00        | Vertical          | -46.42            | 14.56              | 6.72            | -38.58      |             |        |
| LTE<br>BAND 12<br>10MHz<br>Lowest  | 87.81           | Vertical          | -74.42            | 3.35               | 0.38            | -71.45      | -13         | PASS   |
|                                    | 5020.00         | Vertical          | -45.55            | 7.76               | 3.75            | -41.54      |             |        |
|                                    | 7530.00         | Vertical          | -46.64            | 9.84               | 4.94            | -41.74      |             |        |
|                                    | 10040.00        | Vertical          | -39.19            | 10.21              | 5.32            | -34.30      |             |        |
|                                    | 12550.00        | Vertical          | -42.53            | 11.36              | 6.02            | -37.19      |             |        |
|                                    | 15060.00        | Vertical          | -44.04            | 14.52              | 6.68            | -36.20      |             |        |
| LTE<br>BAND 12<br>10MHz<br>Middle  | 88.56           | Vertical          | -74.62            | 3.35               | 0.38            | -71.65      | -13         | PASS   |
|                                    | 5070.00         | Vertical          | -46.97            | 7.76               | 3.75            | -42.96      |             |        |
|                                    | 7605.00         | Vertical          | -46.57            | 9.84               | 4.94            | -41.67      |             |        |
|                                    | 10140.00        | Vertical          | -42.26            | 10.21              | 5.32            | -37.37      |             |        |
|                                    | 12675.00        | Vertical          | -41.67            | 11.36              | 6.02            | -36.33      |             |        |
|                                    | 15210.00        | Vertical          | -45.57            | 14.52              | 6.68            | -37.73      |             |        |
| LTE<br>BAND 12<br>10MHz<br>Highest | 88.22           | Vertical          | -74.58            | 3.35               | 0.38            | -71.61      | -13         | PASS   |
|                                    | 5120.00         | Vertical          | -46.57            | 7.79               | 3.53            | -42.31      |             |        |
|                                    | 7680.00         | Vertical          | -41.11            | 9.88               | 5.02            | -36.25      |             |        |
|                                    | 10240.00        | Vertical          | -37.34            | 10.25              | 5.54            | -32.63      |             |        |
|                                    | 12800.00        | Vertical          | -44.13            | 11.38              | 6.16            | -38.91      |             |        |
|                                    | 15360.00        | Vertical          | -46.52            | 14.56              | 6.72            | -38.68      |             |        |



| Band                               | Frequency (MHz) | Spurious Emission |                   |                    |                 |             | Limit (dBm) | Result |
|------------------------------------|-----------------|-------------------|-------------------|--------------------|-----------------|-------------|-------------|--------|
|                                    |                 | Polarization      | S.G. output (dBm) | Antenna Gain (dBi) | Cable Loss (dB) | Level (dBm) |             |        |
| LTE<br>BAND 13<br>5MHz<br>Lowest   | 87.65           | Vertical          | -74.56            | 3.35               | 0.38            | -71.59      | -13         | PASS   |
|                                    | 5015.00         | Vertical          | -45.64            | 7.76               | 3.75            | -41.63      |             |        |
|                                    | 7522.50         | Vertical          | -46.73            | 9.84               | 4.94            | -41.83      |             |        |
|                                    | 10030.00        | Vertical          | -39.27            | 10.21              | 5.32            | -34.38      |             |        |
|                                    | 12537.50        | Vertical          | -42.60            | 11.36              | 6.02            | -37.26      |             |        |
|                                    | 15045.00        | Vertical          | -44.12            | 14.52              | 6.68            | -36.28      |             |        |
| LTE<br>BAND 13<br>5MHz<br>Middle   | 88.58           | Vertical          | -74.56            | 3.35               | 0.38            | -71.59      | -13         | PASS   |
|                                    | 5070.00         | Vertical          | -46.94            | 7.76               | 3.75            | -42.93      |             |        |
|                                    | 7605.00         | Vertical          | -46.54            | 9.84               | 4.94            | -41.64      |             |        |
|                                    | 10140.00        | Vertical          | -42.21            | 10.21              | 5.32            | -37.32      |             |        |
|                                    | 12675.00        | Vertical          | -41.63            | 11.36              | 6.02            | -36.29      |             |        |
|                                    | 15210.00        | Vertical          | -45.54            | 14.52              | 6.68            | -37.70      |             |        |
| LTE<br>BAND 13<br>5MHz<br>Highest  | 88.83           | Vertical          | -74.52            | 3.35               | 0.38            | -71.55      | -13         | PASS   |
|                                    | 5125.00         | Vertical          | -46.54            | 7.79               | 3.53            | -42.28      |             |        |
|                                    | 7687.50         | Vertical          | -41.07            | 9.88               | 5.02            | -36.21      |             |        |
|                                    | 10250.00        | Vertical          | -37.32            | 10.25              | 5.54            | -32.61      |             |        |
|                                    | 12812.50        | Vertical          | -44.09            | 11.38              | 6.16            | -38.87      |             |        |
|                                    | 15375.00        | Vertical          | -46.49            | 14.56              | 6.72            | -38.65      |             |        |
| LTE<br>BAND 13<br>10MHz<br>Lowest  | 87.36           | Vertical          | -74.53            | 3.35               | 0.38            | -71.56      | -13         | PASS   |
|                                    | 5020.00         | Vertical          | -45.62            | 7.76               | 3.75            | -41.61      |             |        |
|                                    | 7530.00         | Vertical          | -46.71            | 9.84               | 4.94            | -41.81      |             |        |
|                                    | 10040.00        | Vertical          | -39.25            | 10.21              | 5.32            | -34.36      |             |        |
|                                    | 12550.00        | Vertical          | -42.59            | 11.36              | 6.02            | -37.25      |             |        |
|                                    | 15060.00        | Vertical          | -44.10            | 14.52              | 6.68            | -36.26      |             |        |
| LTE<br>BAND 13<br>10MHz<br>Middle  | 88.76           | Vertical          | -74.73            | 3.35               | 0.38            | -71.76      | -13         | PASS   |
|                                    | 5070.00         | Vertical          | -47.04            | 7.76               | 3.75            | -43.03      |             |        |
|                                    | 7605.00         | Vertical          | -46.64            | 9.84               | 4.94            | -41.74      |             |        |
|                                    | 10140.00        | Vertical          | -42.31            | 10.21              | 5.32            | -37.42      |             |        |
|                                    | 12675.00        | Vertical          | -41.73            | 11.36              | 6.02            | -36.39      |             |        |
|                                    | 15210.00        | Vertical          | -45.64            | 14.52              | 6.68            | -37.80      |             |        |
| LTE<br>BAND 13<br>10MHz<br>Highest | 88.97           | Vertical          | -74.69            | 3.35               | 0.38            | -71.72      | -13         | PASS   |
|                                    | 5120.00         | Vertical          | -46.64            | 7.79               | 3.53            | -42.38      |             |        |
|                                    | 7680.00         | Vertical          | -41.17            | 9.88               | 5.02            | -36.31      |             |        |
|                                    | 10240.00        | Vertical          | -37.39            | 10.25              | 5.54            | -32.68      |             |        |
|                                    | 12800.00        | Vertical          | -44.19            | 11.38              | 6.16            | -38.97      |             |        |
|                                    | 15360.00        | Vertical          | -46.59            | 14.56              | 6.72            | -38.75      |             |        |



| Band                                | Frequency (MHz) | Spurious Emission |                   |                    |                 |             | Limit (dBm) | Result |
|-------------------------------------|-----------------|-------------------|-------------------|--------------------|-----------------|-------------|-------------|--------|
|                                     |                 | Polarization      | S.G. output (dBm) | Antenna Gain (dBi) | Cable Loss (dB) | Level (dBm) |             |        |
| LTE<br>BAND 25<br>1.4MHz<br>Lowest  | 88.78           | Vertical          | -75.44            | 3.35               | 0.38            | -72.47      | -13         | PASS   |
|                                     | 3701.40         | Vertical          | -46.16            | 7.76               | 3.75            | -42.15      |             |        |
|                                     | 5552.10         | Vertical          | -47.28            | 9.84               | 4.94            | -42.38      |             |        |
|                                     | 7402.80         | Vertical          | -39.71            | 10.21              | 5.32            | -34.82      |             |        |
|                                     | 9253.50         | Vertical          | -43.10            | 11.36              | 6.02            | -37.76      |             |        |
|                                     | 11104.20        | Vertical          | -44.64            | 14.52              | 6.68            | -36.80      |             |        |
| LTE<br>BAND 25<br>1.4MHz<br>Middle  | 89.76           | Vertical          | -75.44            | 3.35               | 0.38            | -72.47      | -13         | PASS   |
|                                     | 3760.00         | Vertical          | -47.49            | 7.76               | 3.75            | -43.48      |             |        |
|                                     | 5640.00         | Vertical          | -47.09            | 9.84               | 4.94            | -42.19      |             |        |
|                                     | 7520.00         | Vertical          | -42.71            | 10.21              | 5.32            | -37.82      |             |        |
|                                     | 9400.00         | Vertical          | -42.12            | 11.36              | 6.02            | -36.78      |             |        |
|                                     | 11280.00        | Vertical          | -46.06            | 14.52              | 6.68            | -38.22      |             |        |
| LTE<br>BAND 25<br>1.4MHz<br>Highest | 88.85           | Vertical          | -75.40            | 3.35               | 0.38            | -72.43      | -13         | PASS   |
|                                     | 3819.60         | Vertical          | -47.09            | 7.79               | 3.53            | -42.83      |             |        |
|                                     | 5729.40         | Vertical          | -41.55            | 9.88               | 5.02            | -36.69      |             |        |
|                                     | 7639.20         | Vertical          | -37.75            | 10.25              | 5.54            | -33.04      |             |        |
|                                     | 9549.00         | Vertical          | -44.61            | 11.38              | 6.16            | -39.39      |             |        |
|                                     | 11458.80        | Vertical          | -47.03            | 14.56              | 6.72            | -39.19      |             |        |
| LTE<br>BAND 25<br>3MHz<br>Lowest    | 87.43           | Vertical          | -75.44            | 3.35               | 0.38            | -72.47      | -13         | PASS   |
|                                     | 3700.40         | Vertical          | -46.16            | 7.76               | 3.75            | -42.15      |             |        |
|                                     | 5550.60         | Vertical          | -46.96            | 9.84               | 4.94            | -42.06      |             |        |
|                                     | 7400.80         | Vertical          | -39.45            | 10.21              | 5.32            | -34.56      |             |        |
|                                     | 9251.00         | Vertical          | -42.81            | 11.36              | 6.02            | -37.47      |             |        |
|                                     | 11101.20        | Vertical          | -44.33            | 14.52              | 6.68            | -36.49      |             |        |
| LTE<br>BAND 25<br>3MHz<br>Middle    | 88.78           | Vertical          | -75.01            | 3.35               | 0.38            | -72.04      | -13         | PASS   |
|                                     | 3760.00         | Vertical          | -47.23            | 7.76               | 3.75            | -43.22      |             |        |
|                                     | 5640.00         | Vertical          | -46.82            | 9.84               | 4.94            | -41.92      |             |        |
|                                     | 7520.00         | Vertical          | -42.47            | 10.21              | 5.32            | -37.58      |             |        |
|                                     | 9400.00         | Vertical          | -41.89            | 11.36              | 6.02            | -36.55      |             |        |
|                                     | 11280.00        | Vertical          | -45.81            | 14.52              | 6.68            | -37.97      |             |        |
| LTE<br>BAND 25<br>3MHz<br>Highest   | 88.77           | Vertical          | -74.97            | 3.35               | 0.38            | -72.00      | -13         | PASS   |
|                                     | 3819.60         | Vertical          | -46.82            | 7.79               | 3.53            | -42.56      |             |        |
|                                     | 5729.40         | Vertical          | -41.32            | 9.88               | 5.02            | -36.46      |             |        |
|                                     | 7639.20         | Vertical          | -37.54            | 10.25              | 5.54            | -32.83      |             |        |
|                                     | 9549.00         | Vertical          | -44.36            | 11.38              | 6.16            | -39.14      |             |        |
|                                     | 11458.80        | Vertical          | -46.77            | 14.56              | 6.72            | -38.93      |             |        |



| Band                               | Frequency (MHz) | Spurious Emission |                   |                    |                 |             | Limit (dBm) | Result |
|------------------------------------|-----------------|-------------------|-------------------|--------------------|-----------------|-------------|-------------|--------|
|                                    |                 | Polarization      | S.G. output (dBm) | Antenna Gain (dBi) | Cable Loss (dB) | Level (dBm) |             |        |
| LTE<br>BAND 25<br>5MHz<br>Lowest   | 87.25           | Vertical          | -75.05            | 3.35               | 0.38            | -72.08      | -13         | PASS   |
|                                    | 3700.40         | Vertical          | -45.94            | 7.76               | 3.75            | -41.93      |             |        |
|                                    | 5550.60         | Vertical          | -47.04            | 9.84               | 4.94            | -42.14      |             |        |
|                                    | 7400.80         | Vertical          | -39.52            | 10.21              | 5.32            | -34.63      |             |        |
|                                    | 9251.00         | Vertical          | -42.88            | 11.36              | 6.02            | -37.54      |             |        |
|                                    | 11101.20        | Vertical          | -44.41            | 14.52              | 6.68            | -36.57      |             |        |
| LTE<br>BAND 25<br>5MHz<br>Middle   | 88.37           | Vertical          | -75.05            | 3.35               | 0.38            | -72.08      | -13         | PASS   |
|                                    | 3760.00         | Vertical          | -47.25            | 7.76               | 3.75            | -43.24      |             |        |
|                                    | 5640.00         | Vertical          | -46.85            | 9.84               | 4.94            | -41.95      |             |        |
|                                    | 7520.00         | Vertical          | -42.49            | 10.21              | 5.32            | -37.60      |             |        |
|                                    | 9400.00         | Vertical          | -41.91            | 11.36              | 6.02            | -36.57      |             |        |
|                                    | 11280.00        | Vertical          | -45.84            | 14.52              | 6.68            | -38.00      |             |        |
| LTE<br>BAND 25<br>5MHz<br>Highest  | 88.54           | Vertical          | -75.01            | 3.35               | 0.38            | -72.04      | -13         | PASS   |
|                                    | 3819.60         | Vertical          | -46.85            | 7.79               | 3.53            | -42.59      |             |        |
|                                    | 5729.40         | Vertical          | -41.34            | 9.88               | 5.02            | -36.48      |             |        |
|                                    | 7639.20         | Vertical          | -37.56            | 10.25              | 5.54            | -32.85      |             |        |
|                                    | 9549.00         | Vertical          | -44.38            | 11.38              | 6.16            | -39.16      |             |        |
|                                    | 11458.80        | Vertical          | -46.80            | 14.56              | 6.72            | -38.96      |             |        |
| LTE<br>BAND 25<br>10MHz<br>Lowest  | 87.42           | Vertical          | -75.05            | 3.35               | 0.38            | -72.08      | -13         | PASS   |
|                                    | 3700.40         | Vertical          | -46.19            | 7.76               | 3.75            | -42.18      |             |        |
|                                    | 5550.60         | Vertical          | -46.99            | 9.84               | 4.94            | -42.09      |             |        |
|                                    | 7400.80         | Vertical          | -39.47            | 10.21              | 5.32            | -34.58      |             |        |
|                                    | 9251.00         | Vertical          | -42.83            | 11.36              | 6.02            | -37.49      |             |        |
|                                    | 11101.20        | Vertical          | -44.36            | 14.52              | 6.68            | -36.52      |             |        |
| LTE<br>BAND 25<br>10MHz<br>Middle  | 88.43           | Vertical          | -75.10            | 3.35               | 0.38            | -72.13      | -13         | PASS   |
|                                    | 3760.00         | Vertical          | -47.28            | 7.76               | 3.75            | -43.27      |             |        |
|                                    | 5640.00         | Vertical          | -46.88            | 9.84               | 4.94            | -41.98      |             |        |
|                                    | 7520.00         | Vertical          | -42.52            | 10.21              | 5.32            | -37.63      |             |        |
|                                    | 9400.00         | Vertical          | -41.93            | 11.36              | 6.02            | -36.59      |             |        |
|                                    | 11280.00        | Vertical          | -45.87            | 14.52              | 6.68            | -38.03      |             |        |
| LTE<br>BAND 25<br>10MHz<br>Highest | 88.42           | Vertical          | -75.06            | 3.35               | 0.38            | -72.09      | -13         | PASS   |
|                                    | 3819.60         | Vertical          | -46.88            | 7.79               | 3.53            | -42.62      |             |        |
|                                    | 5729.40         | Vertical          | -41.37            | 9.88               | 5.02            | -36.51      |             |        |
|                                    | 7639.20         | Vertical          | -37.58            | 10.25              | 5.54            | -32.87      |             |        |
|                                    | 9549.00         | Vertical          | -44.41            | 11.38              | 6.16            | -39.19      |             |        |
|                                    | 11458.80        | Vertical          | -46.83            | 14.56              | 6.72            | -38.99      |             |        |



| Band                               | Frequency (MHz) | Spurious Emission |                   |                    |                 |             | Limit (dBm) | Result |
|------------------------------------|-----------------|-------------------|-------------------|--------------------|-----------------|-------------|-------------|--------|
|                                    |                 | Polarization      | S.G. output (dBm) | Antenna Gain (dBi) | Cable Loss (dB) | Level (dBm) |             |        |
| LTE<br>BAND 25<br>15MHz<br>Lowest  | 87.54           | Vertical          | -74.87            | 3.35               | 0.38            | -71.90      | -13         | PASS   |
|                                    | 3700.40         | Vertical          | -45.87            | 7.76               | 3.75            | -41.86      |             |        |
|                                    | 5550.60         | Vertical          | -46.97            | 9.84               | 4.94            | -42.07      |             |        |
|                                    | 7400.80         | Vertical          | -39.46            | 10.21              | 5.32            | -34.57      |             |        |
|                                    | 9251.00         | Vertical          | -42.82            | 11.36              | 6.02            | -37.48      |             |        |
|                                    | 11101.20        | Vertical          | -44.33            | 14.52              | 6.68            | -36.49      |             |        |
| LTE<br>BAND 25<br>15MHz<br>Middle  | 88.54           | Vertical          | -74.94            | 3.35               | 0.38            | -71.97      | -13         | PASS   |
|                                    | 3760.00         | Vertical          | -47.18            | 7.76               | 3.75            | -43.17      |             |        |
|                                    | 5640.00         | Vertical          | -46.78            | 9.84               | 4.94            | -41.88      |             |        |
|                                    | 7520.00         | Vertical          | -42.43            | 10.21              | 5.32            | -37.54      |             |        |
|                                    | 9400.00         | Vertical          | -41.85            | 11.36              | 6.02            | -36.51      |             |        |
|                                    | 11280.00        | Vertical          | -45.77            | 14.52              | 6.68            | -37.93      |             |        |
| LTE<br>BAND 25<br>15MHz<br>Highest | 88.54           | Vertical          | -74.90            | 3.35               | 0.38            | -71.93      | -13         | PASS   |
|                                    | 3819.60         | Vertical          | -46.78            | 7.79               | 3.53            | -42.52      |             |        |
|                                    | 5729.40         | Vertical          | -41.28            | 9.88               | 5.02            | -36.42      |             |        |
|                                    | 7639.20         | Vertical          | -37.50            | 10.25              | 5.54            | -32.79      |             |        |
|                                    | 9549.00         | Vertical          | -44.30            | 11.38              | 6.16            | -39.08      |             |        |
|                                    | 11458.80        | Vertical          | -46.73            | 14.56              | 6.72            | -38.89      |             |        |
| LTE<br>BAND 25<br>20MHz<br>Lowest  | 87.65           | Vertical          | -74.91            | 3.35               | 0.38            | -71.94      | -13         | PASS   |
|                                    | 3700.40         | Vertical          | -45.85            | 7.76               | 3.75            | -41.84      |             |        |
|                                    | 5550.60         | Vertical          | -46.95            | 9.84               | 4.94            | -42.05      |             |        |
|                                    | 7400.80         | Vertical          | -39.45            | 10.21              | 5.32            | -34.56      |             |        |
|                                    | 9251.00         | Vertical          | -42.80            | 11.36              | 6.02            | -37.46      |             |        |
|                                    | 11101.20        | Vertical          | -44.32            | 14.52              | 6.68            | -36.48      |             |        |
| LTE<br>BAND 25<br>20MHz<br>Middle  | 88.76           | Vertical          | -74.91            | 3.35               | 0.38            | -71.94      | -13         | PASS   |
|                                    | 3760.00         | Vertical          | -47.16            | 7.76               | 3.75            | -43.15      |             |        |
|                                    | 5640.00         | Vertical          | -46.76            | 9.84               | 4.94            | -41.86      |             |        |
|                                    | 7520.00         | Vertical          | -42.41            | 10.21              | 5.32            | -37.52      |             |        |
|                                    | 9400.00         | Vertical          | -41.83            | 11.36              | 6.02            | -36.49      |             |        |
|                                    | 11280.00        | Vertical          | -45.75            | 14.52              | 6.68            | -37.91      |             |        |
| LTE<br>BAND 25<br>20MHz<br>Highest | 88.58           | Vertical          | -74.87            | 3.35               | 0.38            | -71.90      | -13         | PASS   |
|                                    | 3819.60         | Vertical          | -46.76            | 7.79               | 3.53            | -42.50      |             |        |
|                                    | 5729.40         | Vertical          | -41.26            | 9.88               | 5.02            | -36.40      |             |        |
|                                    | 7639.20         | Vertical          | -37.48            | 10.25              | 5.54            | -32.77      |             |        |
|                                    | 9549.00         | Vertical          | -44.28            | 11.38              | 6.16            | -39.06      |             |        |
|                                    | 11458.80        | Vertical          | -46.71            | 14.56              | 6.72            | -38.87      |             |        |



| Band                                | Frequency (MHz) | Spurious Emission |                   |                    |                 |             | Limit (dBm) | Result |
|-------------------------------------|-----------------|-------------------|-------------------|--------------------|-----------------|-------------|-------------|--------|
|                                     |                 | Polarization      | S.G. output (dBm) | Antenna Gain (dBi) | Cable Loss (dB) | Level (dBm) |             |        |
| LTE<br>BAND 66<br>1.4MHz<br>Lowest  | 87.18           | Vertical          | -74.77            | 3.35               | 0.38            | -71.80      | -13         | PASS   |
|                                     | 3421.40         | Vertical          | -45.76            | 7.76               | 3.75            | -41.75      |             |        |
|                                     | 5132.10         | Vertical          | -46.86            | 9.84               | 4.94            | -41.96      |             |        |
|                                     | 6842.80         | Vertical          | -39.37            | 10.21              | 5.32            | -34.48      |             |        |
|                                     | 8553.50         | Vertical          | -42.72            | 11.36              | 6.02            | -37.38      |             |        |
|                                     | 10264.20        | Vertical          | -44.24            | 14.52              | 6.68            | -36.40      |             |        |
| LTE<br>BAND 66<br>1.4MHz<br>Middle  | 88.32           | Vertical          | -74.77            | 3.35               | 0.38            | -71.80      | -13         | PASS   |
|                                     | 3490.00         | Vertical          | -47.08            | 7.76               | 3.75            | -43.07      |             |        |
|                                     | 5235.00         | Vertical          | -46.67            | 9.84               | 4.94            | -41.77      |             |        |
|                                     | 6980.00         | Vertical          | -42.34            | 10.21              | 5.32            | -37.45      |             |        |
|                                     | 8725.00         | Vertical          | -41.75            | 11.36              | 6.02            | -36.41      |             |        |
|                                     | 10470.00        | Vertical          | -45.66            | 14.52              | 6.68            | -37.82      |             |        |
| LTE<br>BAND 66<br>1.4MHz<br>Highest | 88.11           | Vertical          | -74.73            | 3.35               | 0.38            | -71.76      | -13         | PASS   |
|                                     | 3558.60         | Vertical          | -46.67            | 7.79               | 3.53            | -42.41      |             |        |
|                                     | 5337.90         | Vertical          | -41.19            | 9.88               | 5.02            | -36.33      |             |        |
|                                     | 7117.20         | Vertical          | -37.42            | 10.25              | 5.54            | -32.71      |             |        |
|                                     | 8896.50         | Vertical          | -44.21            | 11.38              | 6.16            | -38.99      |             |        |
|                                     | 10675.80        | Vertical          | -46.62            | 14.56              | 6.72            | -38.78      |             |        |
| LTE<br>BAND 66<br>3MHz<br>Lowest    | 87.32           | Vertical          | -74.79            | 3.35               | 0.38            | -71.82      | -13         | PASS   |
|                                     | 3423.00         | Vertical          | -45.78            | 7.76               | 3.75            | -41.77      |             |        |
|                                     | 5134.50         | Vertical          | -46.88            | 9.84               | 4.94            | -41.98      |             |        |
|                                     | 6846.00         | Vertical          | -39.38            | 10.21              | 5.32            | -34.49      |             |        |
|                                     | 8557.50         | Vertical          | -42.73            | 11.36              | 6.02            | -37.39      |             |        |
|                                     | 10269.00        | Vertical          | -44.25            | 14.52              | 6.68            | -36.41      |             |        |
| LTE<br>BAND 66<br>3MHz<br>Middle    | 88.21           | Vertical          | -74.81            | 3.35               | 0.38            | -71.84      | -13         | PASS   |
|                                     | 3490.00         | Vertical          | -47.10            | 7.76               | 3.75            | -43.09      |             |        |
|                                     | 5235.00         | Vertical          | -46.71            | 9.84               | 4.94            | -41.81      |             |        |
|                                     | 6980.00         | Vertical          | -42.36            | 10.21              | 5.32            | -37.47      |             |        |
|                                     | 8725.00         | Vertical          | -41.78            | 11.36              | 6.02            | -36.44      |             |        |
|                                     | 10470.00        | Vertical          | -45.70            | 14.52              | 6.68            | -37.86      |             |        |
| LTE<br>BAND 66<br>3MHz<br>Highest   | 88.76           | Vertical          | -74.78            | 3.35               | 0.38            | -71.81      | -13         | PASS   |
|                                     | 3557.00         | Vertical          | -46.71            | 7.79               | 3.53            | -42.45      |             |        |
|                                     | 5335.50         | Vertical          | -41.21            | 9.88               | 5.02            | -36.35      |             |        |
|                                     | 7114.00         | Vertical          | -37.44            | 10.25              | 5.54            | -32.73      |             |        |
|                                     | 8892.50         | Vertical          | -44.23            | 11.38              | 6.16            | -39.01      |             |        |
|                                     | 10671.00        | Vertical          | -46.66            | 14.56              | 6.72            | -38.82      |             |        |



| Band                               | Frequency (MHz) | Spurious Emission |                   |                    |                 |             | Limit (dBm) | Result |
|------------------------------------|-----------------|-------------------|-------------------|--------------------|-----------------|-------------|-------------|--------|
|                                    |                 | Polarization      | S.G. output (dBm) | Antenna Gain (dBi) | Cable Loss (dB) | Level (dBm) |             |        |
| LTE<br>BAND 66<br>5MHz<br>Lowest   | 87.45           | Vertical          | -74.66            | 3.35               | 0.38            | -71.69      | -13         | PASS   |
|                                    | 3425.00         | Vertical          | -45.70            | 7.76               | 3.75            | -41.69      |             |        |
|                                    | 5137.50         | Vertical          | -46.80            | 9.84               | 4.94            | -41.90      |             |        |
|                                    | 6850.00         | Vertical          | -39.31            | 10.21              | 5.32            | -34.42      |             |        |
|                                    | 8562.50         | Vertical          | -42.66            | 11.36              | 6.02            | -37.32      |             |        |
|                                    | 10275.00        | Vertical          | -44.17            | 14.52              | 6.68            | -36.33      |             |        |
| LTE<br>BAND 66<br>5MHz<br>Middle   | 88.65           | Vertical          | -74.66            | 3.35               | 0.38            | -71.69      | -13         | PASS   |
|                                    | 3490.00         | Vertical          | -47.00            | 7.76               | 3.75            | -42.99      |             |        |
|                                    | 5235.00         | Vertical          | -46.61            | 9.84               | 4.94            | -41.71      |             |        |
|                                    | 6980.00         | Vertical          | -42.27            | 10.21              | 5.32            | -37.38      |             |        |
|                                    | 8725.00         | Vertical          | -41.69            | 11.36              | 6.02            | -36.35      |             |        |
|                                    | 10470.00        | Vertical          | -45.60            | 14.52              | 6.68            | -37.76      |             |        |
| LTE<br>BAND 66<br>5MHz<br>Highest  | 88.36           | Vertical          | -74.62            | 3.35               | 0.38            | -71.65      | -13         | PASS   |
|                                    | 3555.00         | Vertical          | -46.61            | 7.79               | 3.53            | -42.35      |             |        |
|                                    | 5332.50         | Vertical          | -41.13            | 9.88               | 5.02            | -36.27      |             |        |
|                                    | 7110.00         | Vertical          | -37.36            | 10.25              | 5.54            | -32.65      |             |        |
|                                    | 8887.50         | Vertical          | -44.14            | 11.38              | 6.16            | -38.92      |             |        |
|                                    | 10665.00        | Vertical          | -46.56            | 14.56              | 6.72            | -38.72      |             |        |
| LTE<br>BAND 66<br>10MHz<br>Lowest  | 87.11           | Vertical          | -74.68            | 3.35               | 0.38            | -71.71      | -13         | PASS   |
|                                    | 3430.00         | Vertical          | -45.71            | 7.76               | 3.75            | -41.70      |             |        |
|                                    | 5145.00         | Vertical          | -46.81            | 9.84               | 4.94            | -41.91      |             |        |
|                                    | 6860.00         | Vertical          | -39.32            | 10.21              | 5.32            | -34.43      |             |        |
|                                    | 8575.00         | Vertical          | -42.74            | 11.36              | 6.02            | -37.40      |             |        |
|                                    | 10290.00        | Vertical          | -44.26            | 14.52              | 6.68            | -36.42      |             |        |
| LTE<br>BAND 66<br>10MHz<br>Middle  | 88.21           | Vertical          | -74.70            | 3.35               | 0.38            | -71.73      | -13         | PASS   |
|                                    | 3490.00         | Vertical          | -47.03            | 7.76               | 3.75            | -43.02      |             |        |
|                                    | 5235.00         | Vertical          | -46.63            | 9.84               | 4.94            | -41.73      |             |        |
|                                    | 6980.00         | Vertical          | -42.29            | 10.21              | 5.32            | -37.40      |             |        |
|                                    | 8725.00         | Vertical          | -41.71            | 11.36              | 6.02            | -36.37      |             |        |
|                                    | 10470.00        | Vertical          | -45.62            | 14.52              | 6.68            | -37.78      |             |        |
| LTE<br>BAND 66<br>10MHz<br>Highest | 88.54           | Vertical          | -74.66            | 3.35               | 0.38            | -71.69      | -13         | PASS   |
|                                    | 3550.00         | Vertical          | -46.63            | 7.79               | 3.53            | -42.37      |             |        |
|                                    | 5325.00         | Vertical          | -41.15            | 9.88               | 5.02            | -36.29      |             |        |
|                                    | 7100.00         | Vertical          | -37.38            | 10.25              | 5.54            | -32.67      |             |        |
|                                    | 8875.00         | Vertical          | -44.16            | 11.38              | 6.16            | -38.94      |             |        |
|                                    | 10650.00        | Vertical          | -46.58            | 14.56              | 6.72            | -38.74      |             |        |



| Band                               | Frequency (MHz) | Spurious Emission |                   |                    |                 |             | Limit (dBm) | Result |
|------------------------------------|-----------------|-------------------|-------------------|--------------------|-----------------|-------------|-------------|--------|
|                                    |                 | Polarization      | S.G. output (dBm) | Antenna Gain (dBi) | Cable Loss (dB) | Level (dBm) |             |        |
| LTE<br>BAND 66<br>20MHz<br>Lowest  | 87.18           | Vertical          | -73.74            | 3.35               | 0.38            | -70.77      | -13         | PASS   |
|                                    | 3440.00         | Vertical          | -45.13            | 7.76               | 3.75            | -41.12      |             |        |
|                                    | 5160.00         | Vertical          | -46.23            | 9.84               | 4.94            | -41.33      |             |        |
|                                    | 6880.00         | Vertical          | -38.83            | 10.21              | 5.32            | -33.94      |             |        |
|                                    | 8600.00         | Vertical          | -42.14            | 11.36              | 6.02            | -36.80      |             |        |
|                                    | 10320.00        | Vertical          | -43.63            | 14.52              | 6.68            | -35.79      |             |        |
| LTE<br>BAND 66<br>20MHz<br>Middle  | 88.43           | Vertical          | -73.74            | 3.35               | 0.38            | -70.77      | -13         | PASS   |
|                                    | 3490.00         | Vertical          | -46.43            | 7.76               | 3.75            | -42.42      |             |        |
|                                    | 5235.00         | Vertical          | -46.04            | 9.84               | 4.94            | -41.14      |             |        |
|                                    | 6980.00         | Vertical          | -41.75            | 10.21              | 5.32            | -36.86      |             |        |
|                                    | 8725.00         | Vertical          | -41.18            | 11.36              | 6.02            | -35.84      |             |        |
|                                    | 10470.00        | Vertical          | -45.03            | 14.52              | 6.68            | -37.19      |             |        |
| LTE<br>BAND 66<br>20MHz<br>Highest | 88.12           | Vertical          | -73.70            | 3.35               | 0.38            | -70.73      | -13         | PASS   |
|                                    | 3540.00         | Vertical          | -46.04            | 7.79               | 3.53            | -41.78      |             |        |
|                                    | 5310.00         | Vertical          | -40.62            | 9.88               | 5.02            | -35.76      |             |        |
|                                    | 7080.00         | Vertical          | -36.91            | 10.25              | 5.54            | -32.20      |             |        |
|                                    | 8850.00         | Vertical          | -43.60            | 11.38              | 6.16            | -38.38      |             |        |
|                                    | 10620.00        | Vertical          | -45.99            | 14.56              | 6.72            | -38.15      |             |        |

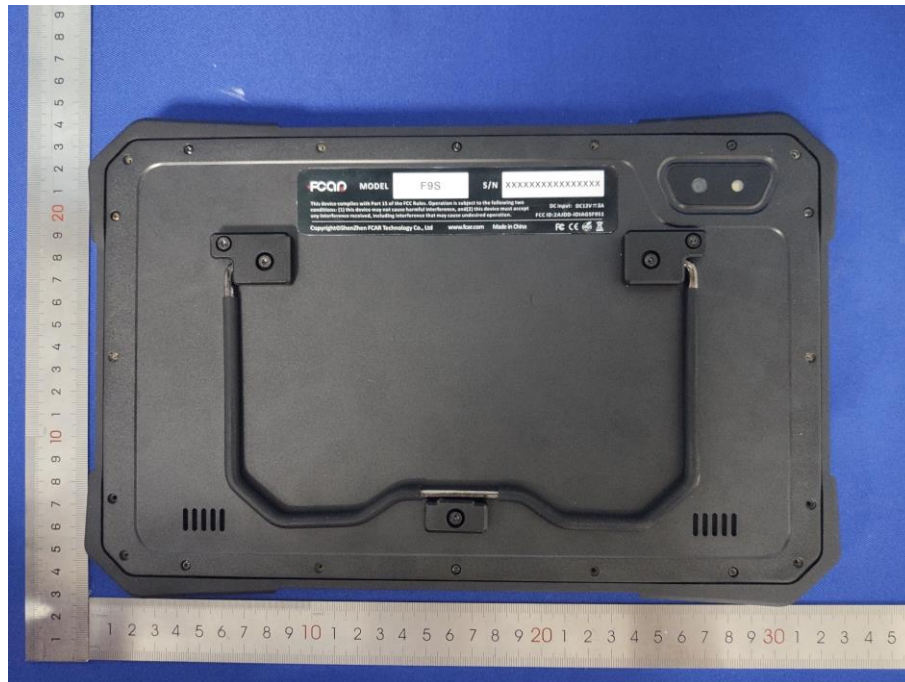


## 6. PHOTOGRAPHS OF TEST SET-UP

Please see setup photo.

## 7. PHOTOGRAPHS OF THE EUT





\*\*\*\*\* END OF REPORT \*\*\*\*\*