



# FCC RADIO TEST REPORT

**FCC ID** : LHJ-FE5NAR110  
**Equipment** : FE5NAR110, FE5NAR111  
**Brand Name** : Continental  
**Model Name** : FE5NAR110, FE5NAR111  
**Applicant** : Continental Automotive Systems, Inc.  
21440 W Lake Cook Rd., Deer Park, IL 60010, USA  
**Manufacturer** : Continental Automotive Systems, Inc.  
21440 W Lake Cook Rd., Deer Park, IL 60010, USA  
**Standard** : FCC 47 CFR Part 2, 22(H), 24(E), 27, Part 90(R)

The product was received on Aug. 06, 2024 and testing was performed from Aug. 15, 2024 to Aug. 27, 2024. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI and has been in compliance with the applicable technical standards.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

*Louis Wu*

Approved by: Louis Wu

**Sporton International Inc. EMC & Wireless Communications Laboratory**

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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## History of this test report

| Report No. | Version | Description                                                                                            | Issue Date    |
|------------|---------|--------------------------------------------------------------------------------------------------------|---------------|
| FG480602B  | 01      | Initial issue of report                                                                                | Sep. 18, 2024 |
| FG480602B  | 02      | Revise Section 2.4<br>This report is an updated version, replacing the report issued on Sep. 18, 2024. | Oct. 11, 2024 |
| FG480602B  | 03      | Revise Section 1.4<br>This report is an updated version, replacing the report issued on Oct. 11, 2024. | Oct. 16, 2024 |
|            |         |                                                                                                        |               |
|            |         |                                                                                                        |               |
|            |         |                                                                                                        |               |
|            |         |                                                                                                        |               |
|            |         |                                                                                                        |               |
|            |         |                                                                                                        |               |
|            |         |                                                                                                        |               |
|            |         |                                                                                                        |               |
|            |         |                                                                                                        |               |
|            |         |                                                                                                        |               |
|            |         |                                                                                                        |               |
|            |         |                                                                                                        |               |

## Summary of Test Result

| Report Clause | Ref Std. Clause                                                         | Test Items                                                                      | Result (PASS/FAIL) | Remark   |
|---------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------|----------|
| 3.2           | §2.1046                                                                 | Conducted Output Power                                                          | Pass               | -        |
|               | §22.913 (a)(5)                                                          | Effective Radiated Power (Band 5)                                               | Pass               |          |
|               | §27.50 (b)(10)<br>§27.50 (c)(10)                                        | Effective Radiated Power (Band 12) (Band 13) (Band 71)                          |                    |          |
|               | §24.232 (c)<br>§27.50 (h)(2)                                            | Equivalent Isotropic Radiated Power (Band 2) (Band 7)                           |                    |          |
|               | §90.542 (a)(7)                                                          | Effective Radiated Power (Band 14)                                              |                    |          |
| -             | §24.232 (d)                                                             | Peak-to-Average Ratio                                                           | Pass               | See Note |
| -             | §2.1049                                                                 | Occupied Bandwidth                                                              | Pass               | See Note |
| -             | §2.1051<br>§22.917 (a)<br>§24.238 (a)<br>§27.53 (c)(2)(4)<br>§27.53 (g) | Conducted Band Edge Measurement (Band 2) (Band 5) (Band 12) (Band 13) (Band 71) | Pass               | See Note |
|               | §2.1051<br>§27.53 (m)(4)                                                | Conducted Band Edge Measurement (Band 7)                                        |                    |          |
|               | §2.1051<br>§90.543 (e)(2)                                               | Conducted Band Edge Measuremen (Band 14)                                        |                    |          |
| -             | §2.1051<br>§90.210 (n)                                                  | Emission Mask (Band 14)                                                         | Pass               | See Note |



| Report Clause | Ref Std. Clause                                                                    | Test Items                                                                        | Result (PASS/FAIL) | Remark                                       |
|---------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------|----------------------------------------------|
| -             | §2.1051<br>§22.917 (a)<br>§24.238 (a)<br>§27.53 (c)(2)<br>§27.53 (g)               | Conducted Spurious Emission<br>(Band 2) (Band 5) (Band 12)<br>(Band 13) (Band 71) | Pass               | See Note                                     |
|               | §2.1051<br>§27.53 (m)(4)                                                           | Conducted Spurious Emission<br>(Band 7)                                           |                    |                                              |
|               | §2.1051<br>§90.543 (e)(3)                                                          | Conducted Spurious Emission<br>(Band 14)                                          |                    |                                              |
| -             | §2.1055<br>§22.355<br>§24.235<br>§27.54<br>§90.539 (e)                             | Frequency Stability<br>Temperature & Voltage                                      | Pass               | See Note                                     |
| 4.2           | §2.1053<br>§22.917 (a)<br>§24.238 (a)<br>§27.53 (c)(2)<br>§27.53 (f)<br>§27.53 (g) | Radiated Spurious Emission<br>(Band 2) (Band 5) (Band 12)<br>(Band 13) (Band 71)  | Pass               | 9.32 dB<br>under the limit at<br>1584.00 MHz |
|               | §2.1053<br>§27.53 (m)(4)                                                           | Radiated Spurious Emission<br>(Band 7)                                            |                    |                                              |
|               | §2.1053<br>§90.543 (e)(3)<br>§90.543 (f)                                           | Radiated Spurious Emission<br>(Band 14)                                           |                    |                                              |

**Note:**

- For host device, Radiated Spurious Emission, Equivalent Isotropic Radiated Power and Effective Radiated Power are verified and complies with the limit in this test report.
- For host device, the Conducted Output Power is no difference after compared to module (Model: FE5NAR110, FE5NAR111).

**Conformity Assessment Condition:**

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

**Disclaimer:**

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

**Reviewed by: Yun Huang****Report Producer: Michelle Chen**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

| Product Feature                 |                                                                                                     |
|---------------------------------|-----------------------------------------------------------------------------------------------------|
| Equipment                       | FE5NAR110, FE5NAR111                                                                                |
| Brand Name                      | Continental                                                                                         |
| Model Name                      | FE5NAR110, FE5NAR111                                                                                |
| FCC ID                          | LHJ-FE5NAR110                                                                                       |
| Installed into the Host         | Equipment name: G12N51RG1, G12N50RG1<br>Brand name: Continental<br>Model name: G12N51RG1, G12N50RG1 |
| EUT supports Radios application | WCDMA/HSPA/LTE/5G NR/GNSS                                                                           |
| EUT Stage                       | Identical Prototype                                                                                 |

| Sample Information |           |             |                                                                       |
|--------------------|-----------|-------------|-----------------------------------------------------------------------|
| Sample             | TA-code   | L2/L5 GNSS  | Band Difference                                                       |
| 1                  | FE5NAR110 | Support     | /                                                                     |
| 2                  | FE5NAR111 | Not Support | BOM change: depopulated passive components from the GNSS RF front-end |

**Remark:** The above EUT's information was declared by manufacturer.

| Support band and evaluated information |                                |
|----------------------------------------|--------------------------------|
| Supported band                         | B2, B5, B7, B12, B13, B14, B71 |
| Evaluated and Tested band              | B2, B5, B7, B12, B13, B14, B71 |

| Power Class |     |     |
|-------------|-----|-----|
|             | PC3 | PC2 |
| B2          | V   |     |
| B5          | V   |     |
| B7          | V   |     |
| B12         | V   |     |
| B13         | V   |     |
| B14         | V   |     |
| B71         | V   |     |



## 1.2 Product Specification of Equipment Under Test

| Product Specification is subject to this standard |                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tx Frequency</b>                               | LTE Band 2: 1850.7 MHz ~ 1909.3 MHz<br>LTE Band 5: 824.7 MHz ~ 848.3 MHz<br>LTE Band 7: 2502.5 MHz ~ 2567.5 MHz<br>LTE Band 12: 699.7 MHz ~ 715.3 MHz<br>LTE Band 13: 779.5 MHz ~ 784.5 MHz<br>LTE Band 14: 790.5 MHz ~ 795.5 MHz<br>LTE Band 71: 665.5 MHz ~ 695.5 MHz                                |
| <b>Rx Frequency</b>                               | LTE Band 2: 1930.7 MHz ~ 1989.3 MHz<br>LTE Band 5: 869.7 MHz ~ 893.3 MHz<br>LTE Band 7: 2622.5 MHz ~ 2687.5 MHz<br>LTE Band 12: 729.7 MHz ~ 745.3 MHz<br>LTE Band 13: 748.5 MHz ~ 753.5 MHz<br>LTE Band 14: 760.5 MHz ~ 765.5 MHz<br>LTE Band 71: 619.5 MHz ~ 649.5 MHz                                |
| <b>Bandwidth</b>                                  | LTE Band 2: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz<br>LTE Band 5: 1.4MHz / 3MHz / 5MHz / 10MHz<br>LTE Band 7: 5MHz / 10MHz / 15MHz / 20MHz<br>LTE Band 12: 1.4MHz / 3MHz / 5MHz / 10MHz<br>LTE Band 13: 5MHz / 10MHz<br>LTE Band 14: 5 MHz / 10 MHz<br>LTE Band 71: 5MHz / 10MHz / 15MHz / 20MHz |
| <b>Maximum Output Power to Antenna</b>            | LTE Band 2 : 23.02 dBm<br>LTE Band 5 : 22.93 dBm<br>LTE Band 5B : 22.89 dBm<br>LTE Band 7 : 22.91 dBm<br>LTE Band 7C : 22.35 dBm<br>LTE Band 12 : 22.77 dBm<br>LTE Band 13 : 22.63 dBm<br>LTE Band 14 : 22.58 dBm<br>LTE Band 71 : 22.58 dBm                                                           |



| Product Specification is subject to this standard |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Antenna Type / Gain                               | <p><b>&lt;Internal Antenna&gt;: TCP Antenna</b></p> <p><b>Primary cell antenna:</b></p> <p>LTE Band 2 : 5.15 dBi<br/>LTE Band 5 : 4.69 dBi<br/>LTE Band 7 : 6.70 dBi<br/>LTE Band 12 : 0.05 dBi<br/>LTE Band 13 : 1.92 dBi<br/>LTE Band 14 : 3.05 dBi<br/>LTE Band 71 : 0.06 dBi</p> <p><b>&lt;External Glass Antenna (Composed by component PN: 85038208, 85038209, 85038210, 85732934)&gt;:</b></p> <p><b>Primary cell antenna:</b></p> <p>LTE Band 2 : 4.34 dBi<br/>LTE Band 5 : 2.72 dBi<br/>LTE Band 7 : 4.03 dBi<br/>LTE Band 12 : 0.59 dBi<br/>LTE Band 13 : 3.25 dBi<br/>LTE Band 14 : 3.25 dBi<br/>LTE Band 71 : 2.31 dBi</p> <p><b>&lt;External Front Fender Antenna (Composed by component PN: 86784729, 86784728)&gt;:</b></p> <p><b>Primary cell antenna:</b></p> <p>LTE Band 2 : 4.89 dBi<br/>LTE Band 5 : 4.81 dBi<br/>LTE Band 7 : 6.73 dBi<br/>LTE Band 12 : 5.21 dBi<br/>LTE Band 13 : 6.16 dBi<br/>LTE Band 14 : 6.67 dBi<br/>LTE Band 71 : 4.67 dBi</p> <p><b>&lt;External sharkfin antenna, North America 5G L1 Only + XM (Composed by component PN: 26464255)&gt;:</b></p> <p><b>Primary cell antenna:</b></p> <p>LTE Band 2 : 5.30 dBi<br/>LTE Band 5 : 0.60 dBi<br/>LTE Band 7 : 1.70 dBi<br/>LTE Band 12 : -0.30 dBi<br/>LTE Band 13 : 4.60 dBi<br/>LTE Band 14 : 4.60 dBi<br/>LTE Band 71 : 0.50 dBi</p> <p><b>&lt;External sharkfin antenna, North America 5G L1/L5 + XM (Composed by component PN: 26464260)&gt;:</b></p> <p><b>Primary cell antenna:</b></p> <p>LTE Band 2 : 5.70 dBi<br/>LTE Band 5 : 5.50 dBi<br/>LTE Band 7 : 1.70 dBi<br/>LTE Band 12 : -0.30 dBi<br/>LTE Band 13 : 4.60 dBi<br/>LTE Band 14 : 4.60 dBi<br/>LTE Band 71 : 0.50 dBi</p> |

| Product Specification is subject to this standard |                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Antenna Type / Gain                               | <b>&lt;External Sharkfin Antenna + XM + Dual GNSS +5G (Composed by component PN: 86783279)&gt;:</b><br><b>Primary cell antenna:</b><br>LTE Band 2 : 3.50 dBi<br>LTE Band 5 : 4.00 dBi<br>LTE Band 7 : 6.10 dBi<br>LTE Band 12 : 1.30 dBi<br>LTE Band 13 : 3.50 dBi<br>LTE Band 14 : 3.50 dBi<br>LTE Band 71 : 1.70 dBi |
| Type of Modulation                                | QPSK / 16QAM / 64QAM                                                                                                                                                                                                                                                                                                   |

**Remark:** The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

### 1.3 Modification of EUT

No modifications made to the EUT during the testing.

### 1.4 Testing Location

|                       |                                                                                                                        |
|-----------------------|------------------------------------------------------------------------------------------------------------------------|
| Test Site             | Sporton International Inc. EMC & Wireless Communications Laboratory                                                    |
| Test Site Location    | No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)<br>TEL: +886-3-327-3456<br>FAX: +886-3-328-4978 |
| Test Site No.         | <b>Sporton Site No.</b><br>TH03-HY                                                                                     |
| Test Engineer         | Cotty Hsu                                                                                                              |
| Temperature (°C)      | 22.1~22.8                                                                                                              |
| Relative Humidity (%) | 53.3~55.6                                                                                                              |



|                              |                                                                                                                                                  |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Site</b>             | Sporton International Inc. Wensan Laboratory                                                                                                     |
| <b>Test Site Location</b>    | No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist.,<br>Taoyuan City 333010, Taiwan (R.O.C.)<br>TEL: +886-3-327-0868<br>FAX: +886-3-327-0855 |
| <b>Test Site No.</b>         | <b>Sporton Site No.</b><br>03CH11-HY (TAF Code:3786)                                                                                             |
| <b>Test Engineer</b>         | Daniel Lee, Fu Chen<br>and Troye Hsieh                                                                                                           |
| <b>Temperature (°C)</b>      | 20.1~21.9                                                                                                                                        |
| <b>Relative Humidity (%)</b> | 51.2~65.7                                                                                                                                        |
| <b>Remark</b>                | The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory.                                          |

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

FCC Designation No.: TW1190 and TW3786

## 1.5 Applicable Standards

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

- ♦ ANSI C63.26-2015
- ♦ FCC 47 CFR Part 2, 22(H), 24(E), 27, Part 90(R)
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.

**Remark:**

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.
3. The TAF code is not including all the FCC KDB listed without accreditation.

## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

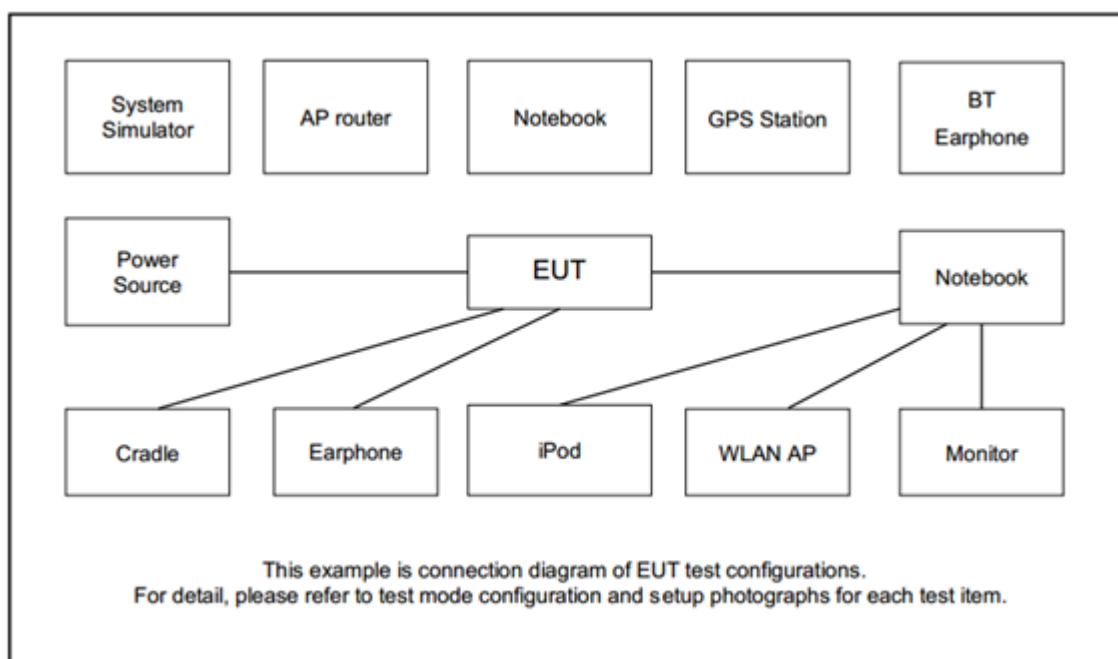
| Modulation Type | Modulation |
|-----------------|------------|
| A               | QPSK       |
| B               | 16QAM      |
| C               | 64QAM      |

| Test Item       | Modulation Type | Bandwidth      | RB Size       | Channel |
|-----------------|-----------------|----------------|---------------|---------|
| Conducted Power | A, B, C         | All            | 1, Half, Full | L, M, H |
| EIRP            | A, B, C         | All            | 1, Half, Full | L, M, H |
| RSE             | A               | 20 MHz or less | 1RB           | L, M, H |

**Remark:**

1. Evaluated all the transmitter signal and reporting worst-case configuration among all modulation types.
2. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst-case emissions are reported.
3. For 4G LTE test combination are CA 2A\_5B, CA 7C.
4. All the radiated test cases were performed with Sample 1.

### 2.2 Connection Diagram of Test System





## 2.3 Support Unit used in test configuration and system

| Item | Equipment         | Brand Name  | Model No. | FCC ID | Data Cable | Power Cord        |
|------|-------------------|-------------|-----------|--------|------------|-------------------|
| 1.   | System Simulator  | Anritsu     | MT8821C   | N/A    | N/A        | Unshielded, 1.8 m |
| 2.   | DC Power Supply   | GW Instek   | GPE-2323  | N/A    | N/A        | N/A               |
| 3.   | Adapter           | TePoo       | PT-WC-03  | N/A    | N/A        | N/A               |
| 4.   | Metal Plate       | N/A         | N/A       | N/A    | N/A        | N/A               |
| 5.   | Teddy Jr Load Box | Continental | N/A       | N/A    | N/A        | N/A               |

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

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



| LTE Band 5 Channel and Frequency List |                        |        |        |         |
|---------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                              | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10                                    | Channel                | 20450  | 20525  | 20600   |
|                                       | Frequency              | 829    | 836.5  | 844     |
| 5                                     | Channel                | 20425  | 20525  | 20625   |
|                                       | Frequency              | 826.5  | 836.5  | 846.5   |
| 3                                     | Channel                | 20415  | 20525  | 20635   |
|                                       | Frequency              | 825.5  | 836.5  | 847.5   |
| 1.4                                   | Channel                | 20407  | 20525  | 20643   |
|                                       | Frequency              | 824.7  | 836.5  | 848.3   |

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

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



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

| LTE Band 14 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10                                     | Channel                | -      | 23330  | -       |
|                                        | Frequency              | -      | 793    | -       |
| 5                                      | Channel                | 23305  | 23330  | 23355   |
|                                        | Frequency              | 790.5  | 793    | 795.5   |

| LTE Band 71 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                     | Channel                | 133222 | 133297 | 133372  |
|                                        | Frequency              | 673.0  | 680.5  | 688.0   |
| 15                                     | Channel                | 133197 | 133297 | 133397  |
|                                        | Frequency              | 670.5  | 680.5  | 690.5   |
| 10                                     | Channel                | 133172 | 133297 | 133422  |
|                                        | Frequency              | 668.0  | 680.5  | 693.0   |
| 5                                      | Channel                | 133147 | 133297 | 133447  |
|                                        | Frequency              | 665.5  | 680.5  | 695.5   |



| LTE Band 5B Channel and Frequency List_CA |                        |           |        |        |         |
|-------------------------------------------|------------------------|-----------|--------|--------|---------|
| BW [MHz]                                  | Channel/Frequency(MHz) |           | Lowest | Middle | Highest |
| 3 + 5                                     | PCC                    | Channel   | 20416  | 20501  | 20586   |
|                                           |                        | Frequency | 825.6  | 834.1  | 842.6   |
|                                           | SCC                    | Channel   | 20455  | 20540  | 20575   |
|                                           |                        | Frequency | 829.5  | 838.0  | 841.5   |
| 5 + 3                                     | PCC                    | Channel   | 20425  | 20510  | 20595   |
|                                           |                        | Frequency | 826.5  | 835.0  | 843.5   |
|                                           | SCC                    | Channel   | 20464  | 20549  | 20634   |
|                                           |                        | Frequency | 830.4  | 838.9  | 847.4   |
| 5 + 10                                    | PCC                    | Channel   | 20428  | 20478  | 20528   |
|                                           |                        | Frequency | 826.8  | 831.8  | 836.8   |
|                                           | SCC                    | Channel   | 20500  | 20550  | 20600   |
|                                           |                        | Frequency | 834.0  | 839.0  | 844.0   |
| 10 + 5                                    | PCC                    | Channel   | 20450  | 20500  | 20550   |
|                                           |                        | Frequency | 829.0  | 834.0  | 839.0   |
|                                           | SCC                    | Channel   | 20522  | 20572  | 20622   |
|                                           |                        | Frequency | 836.2  | 841.2  | 846.2   |
| 10 + 10                                   | PCC                    | Channel   | 20450  | 20476  | 20501   |
|                                           |                        | Frequency | 829.0  | 831.6  | 834.1   |
|                                           | SCC                    | Channel   | 20549  | 20575  | 20600   |
|                                           |                        | Frequency | 838.9  | 841.5  | 844.0   |



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

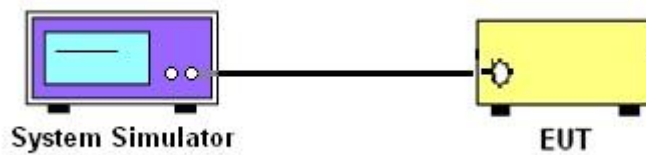
### 3 Conducted Test Items

#### 3.1 Measuring Instruments

See list of measuring instruments of this test report.

##### 3.1.1 Test Setup

##### 3.1.2 Conducted Output Power



##### 3.1.3 Test Result of Conducted Test

Please refer to Appendix A.



## **3.2 Conducted Output Power and ERP/EIRP**

### **3.2.1 Description of the Conducted Output Power Measurement and ERP/EIRP Measurement**

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

The ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12, Band 13, Band 14, Band 71

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2, Band 7

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$ ,  $ERP = EIRP - 2.15$ , where

$P_T$  = transmitter output power in dBm

$G_T$  = gain of the transmitting antenna in dBi

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

### **3.2.2 Test Procedures**

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

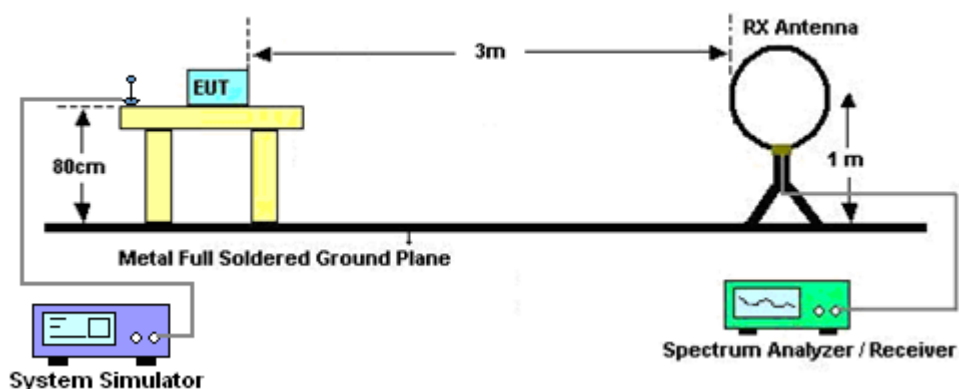
## 4 Radiated Test Items

### 4.1 Measuring Instruments

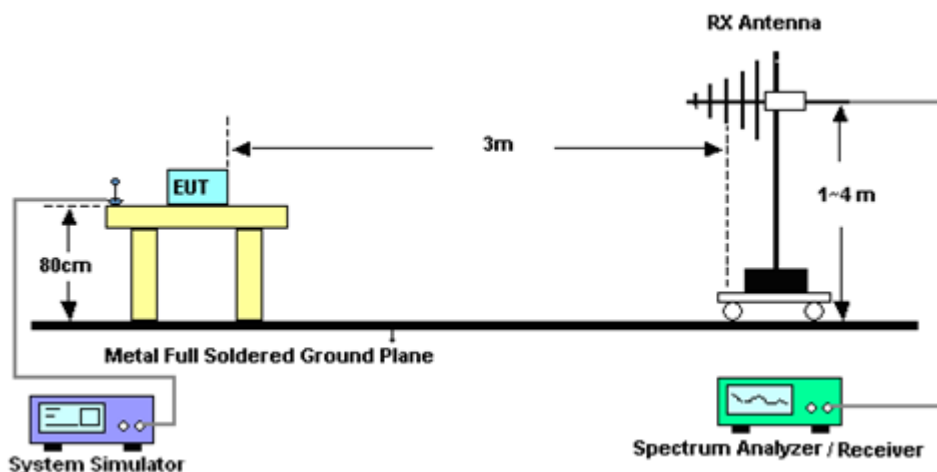
See list of measuring instruments of this test report.

#### 4.1.1 Test Setup

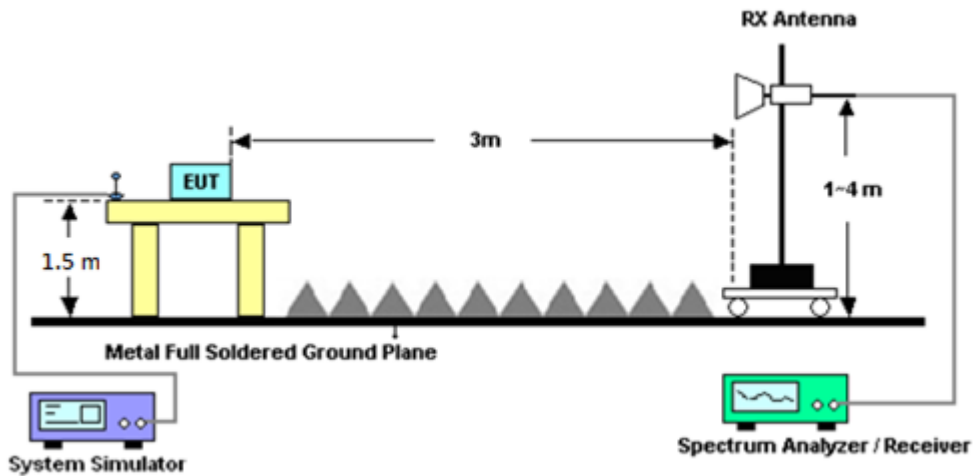
For radiated test below 30MHz



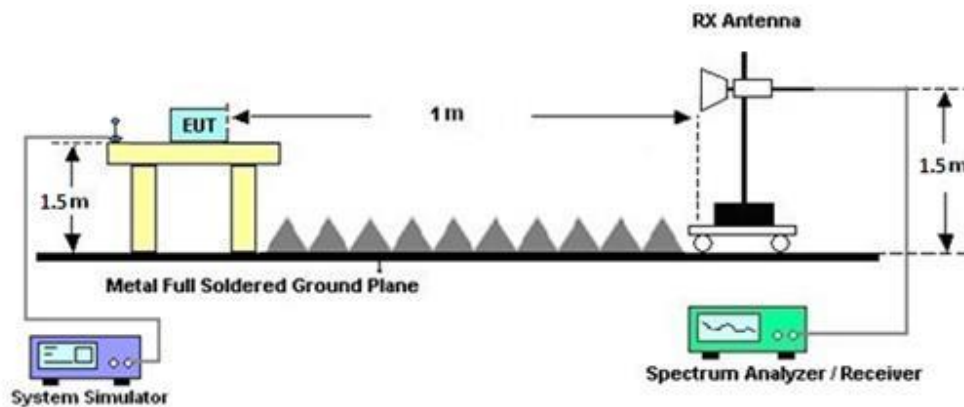
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



#### 4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

##### Note:

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.



## **4.2 Radiated Spurious Emission Measurement**

### **4.2.1 Description of Radiated Spurious Emission Measurement**

The radiated spurious emission was measured by substitution method according to ANSI C63.26-2015. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

For LTE Band 7

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

For LTE Band 13

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

For LTE Band 14

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

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



#### 4.2.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI C63.26-2015 section 5.5.4 Radiated measurement using the field strength method.

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. To convert spectrum reading E(dBuV/m) to EIRP(dBm)  
$$\text{EIRP(dBm)} = \text{Level (dBuV/m)} + 20\log(d) - 104.77,$$
where d is the distance at which field strength limit is specified in the rules
7. Field Strength Level (dBm) = Spectrum Reading (dBm) + Antenna Factor + Cable Loss + Read Level - Preamp Factor.
8. ERP (dBm) = EIRP (dBm) - 2.15
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.



## 5 List of Measuring Equipment

| Instrument           | Brand Name      | Model No.                    | Serial No.           | Characteristics               | Calibration Date | Test Date                       | Due Date      | Remark                   |
|----------------------|-----------------|------------------------------|----------------------|-------------------------------|------------------|---------------------------------|---------------|--------------------------|
| Bilog Antenna        | TESEQ           | CBL 6111D & N-6-06           | 35414 & AT-N0602     | 30MHz~1GHz                    | Oct. 07, 2023    | Aug. 16, 2024~<br>Aug. 27, 2024 | Oct. 06, 2024 | Radiation<br>(03CH11-HY) |
| Loop Antenna         | Rohde & Schwarz | HFH2-Z2                      | 100488               | 9 kHz~30 MHz                  | Sep. 12, 2023    | Aug. 16, 2024~<br>Aug. 27, 2024 | Sep. 11, 2024 | Radiation<br>(03CH11-HY) |
| Horn Antenna         | SCHWARZBECK     | BBHA 9120 D                  | 9120D-02038          | 1GHz~18GHz                    | Jul. 29, 2024    | Aug. 16, 2024~<br>Aug. 27, 2024 | Jul. 28, 2025 | Radiation<br>(03CH11-HY) |
| SHF-EHF Horn Antenna | SCHWARZBECK     | BBHA 9170                    | 1224                 | 18GHz~40GHz                   | Jun. 24, 2024    | Aug. 16, 2024~<br>Aug. 27, 2024 | Jun. 23, 2025 | Radiation<br>(03CH11-HY) |
| Amplifier            | SONOMA          | 310N                         | 187312               | 9kHz~1GHz                     | Dec. 08, 2023    | Aug. 16, 2024~<br>Aug. 27, 2024 | Dec. 07, 2024 | Radiation<br>(03CH11-HY) |
| Preamplifier         | Keysight        | 83017A                       | MY53270080           | 1GHz~26.5GHz                  | Mar. 25, 2024    | Aug. 16, 2024~<br>Aug. 27, 2024 | Mar. 24, 2025 | Radiation<br>(03CH11-HY) |
| Preamplifier         | Jet-Power       | JPA0118-55-303               | 1710001800<br>055007 | 1GHz~18GHz                    | Jun. 13, 2024    | Aug. 16, 2024~<br>Aug. 27, 2024 | Jun. 12, 2025 | Radiation<br>(03CH11-HY) |
| Preamplifier         | EMEC            | EM18G40G                     | 060801               | 18GHz~40GHz                   | May 27, 2024     | Aug. 16, 2024~<br>Aug. 27, 2024 | May 26, 2025  | Radiation<br>(03CH11-HY) |
| Preamplifier         | EMEC            | EM18G40G                     | 060872               | 18GHz~40GHz                   | Sep. 06, 2023    | Aug. 16, 2024~<br>Aug. 27, 2024 | Sep. 05, 2024 | Radiation<br>(03CH11-HY) |
| Preamplifier         | EMEC            | EM18G40G                     | 06715                | 18GHz~40GHz                   | Dec. 07, 2023    | Aug. 16, 2024~<br>Aug. 27, 2024 | Dec. 06, 2024 | Radiation<br>(03CH11-HY) |
| Spectrum Analyzer    | Keysight        | N9010A                       | MY54200486           | 10Hz~44GHz                    | Oct. 05, 2023    | Aug. 16, 2024~<br>Aug. 27, 2024 | Oct. 04, 2024 | Radiation<br>(03CH11-HY) |
| Controller           | EMEC            | EM 1000                      | N/A                  | Control Turn table & Ant Mast | N/A              | Aug. 16, 2024~<br>Aug. 27, 2024 | N/A           | Radiation<br>(03CH11-HY) |
| Antenna Mast         | EMEC            | AM-BS-4500-B                 | N/A                  | 1~4m                          | N/A              | Aug. 16, 2024~<br>Aug. 27, 2024 | N/A           | Radiation<br>(03CH11-HY) |
| Turn Table           | EMEC            | TT 2000                      | N/A                  | 0~360 Degree                  | N/A              | Aug. 16, 2024~<br>Aug. 27, 2024 | N/A           | Radiation<br>(03CH11-HY) |
| Software             | Audix           | E3<br>6.2009-8-24            | RK-001053            | N/A                           | N/A              | Aug. 16, 2024~<br>Aug. 27, 2024 | N/A           | Radiation<br>(03CH11-HY) |
| Hygrometer           | TECPEL          | DTM-303B                     | TP140325             | N/A                           | Dec. 08, 2023    | Aug. 16, 2024~<br>Aug. 27, 2024 | Dec. 07, 2024 | Radiation<br>(03CH11-HY) |
| RF Cable             | HUBER + SUHNER  | SUCOFLEX 102                 | 801595/2             | 30M~40G                       | Mar. 06, 2024    | Aug. 16, 2024~<br>Aug. 27, 2024 | Mar. 05, 2025 | Radiation<br>(03CH11-HY) |
| RF Cable             | HUBER + SUHNER  | SUCOFLEX 102                 | 804013/2             | 30M~40G                       | May 23, 2024     | Aug. 16, 2024~<br>Aug. 27, 2024 | May 22, 2025  | Radiation<br>(03CH11-HY) |
| RF Cable             | HUBER + SUHNER  | SUCOFLEX 102                 | MY2859/2             | 30MHz~40GHz                   | Mar. 06, 2024    | Aug. 16, 2024~<br>Aug. 27, 2024 | Mar. 05, 2025 | Radiation<br>(03CH11-HY) |
| RF Cable             | HUBER + SUHNER  | SUCOFLEX 102                 | 803951/2             | 9K~30M                        | Mar. 06, 2024    | Aug. 16, 2024~<br>Aug. 27, 2024 | Mar. 05, 2025 | Radiation<br>(03CH11-HY) |
| RF Cable             | HUBER + SUHNER  | SUCOFLEX 102                 | 803951/2             | 30M~40G                       | Mar. 06, 2024    | Aug. 16, 2024~<br>Aug. 27, 2024 | Mar. 05, 2025 | Radiation<br>(03CH11-HY) |
| Filter               | Wainwright      | WHKX12-900-1000-15000-60SS   | SN12                 | 1GHz High Pass Filter         | Sep. 11, 2023    | Aug. 16, 2024~<br>Aug. 27, 2024 | Sep. 10, 2024 | Radiation<br>(03CH11-HY) |
| Filter               | Wainwright      | WHKX12-2700-3000-18000-60SS  | SN3                  | 3GHz High Pass Filter         | Sep. 11, 2023    | Aug. 16, 2024~<br>Aug. 27, 2024 | Sep. 10, 2024 | Radiation<br>(03CH11-HY) |
| Filter               | Wainwright      | WHKX8-5872.5-6750-18000-40SS | SN3                  | 6.75GHz High Pass Filter      | Sep. 11, 2023    | Aug. 16, 2024~<br>Aug. 27, 2024 | Sep. 10, 2024 | Radiation<br>(03CH11-HY) |



| Instrument                   | Brand Name                           | Model No.                                                                   | Serial No.      | Characteristics                     | Calibration Date | Test Date                       | Due Date      | Remark                 |
|------------------------------|--------------------------------------|-----------------------------------------------------------------------------|-----------------|-------------------------------------|------------------|---------------------------------|---------------|------------------------|
| Radio Communication Analyzer | Anritsu                              | MT8821C                                                                     | 6262025353      | LTE FDD/TDD<br>LTE-2CC<br>DLCA/ULCA | Oct. 03, 2023    | Aug. 15, 2024~<br>Aug. 20, 2024 | Oct. 02, 2024 | Conducted<br>(TH03-HY) |
| DC Power Supply              | GW Instek                            | GPP-2323                                                                    | GES906037       | 0V~64V : 0A~6A                      | Nov. 28, 2023    | Aug. 15, 2024~<br>Aug. 20, 2024 | Nov. 27, 2024 | Conducted<br>(TH03-HY) |
| Coupler+10dB+<br>RFCable     | Warison +<br>WoKen +<br>E-Instrument | 20dB 25W<br>SMA<br>Directional<br>Coupler+ 10dB<br>18GHz_5W+S<br>FL405_1.5M | #A+#1+#1+#<br>7 | 1-18GHz                             | Jan. 02, 2024    | Aug. 15, 2024~<br>Aug. 20, 2024 | Jan. 01, 2025 | Conducted<br>(TH03-HY) |
| Software                     | Sporton                              | FCC<br>Test Tools                                                           | N/A             | Conducted Test<br>Item              | N/A              | Aug. 15, 2024~<br>Aug. 20, 2024 | N/A           | Conducted<br>(TH03-HY) |



## 6 Measurement Uncertainty

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

|                                                                            |          |
|----------------------------------------------------------------------------|----------|
| Measuring Uncertainty for a Level of<br>Confidence of 95% ( $U = 2Uc(y)$ ) | 3.290 dB |
|----------------------------------------------------------------------------|----------|

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

|                                                                            |          |
|----------------------------------------------------------------------------|----------|
| Measuring Uncertainty for a Level of<br>Confidence of 95% ( $U = 2Uc(y)$ ) | 2.076 dB |
|----------------------------------------------------------------------------|----------|

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

|                                                                            |          |
|----------------------------------------------------------------------------|----------|
| Measuring Uncertainty for a Level of<br>Confidence of 95% ( $U = 2Uc(y)$ ) | 2.082 dB |
|----------------------------------------------------------------------------|----------|



## Appendix A. Test Results of Conducted Test

### Conducted Output Power(Average power & ERP/EIRP)

| LTE Band 2 Maximum Average Power [dBm] (GT - LC = 5.7 dB) |           |           |        |        |        |         |            |          |
|-----------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                  | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 20                                                        | 1         | 0         | QPSK   | 22.75  | 23.02  | 22.90   | 28.72      | 0.7447   |
| 20                                                        | 1         | 49        |        | 22.63  | 22.76  | 22.84   |            |          |
| 20                                                        | 1         | 99        |        | 22.73  | 22.86  | 22.75   |            |          |
| 20                                                        | 50        | 0         |        | 21.70  | 21.78  | 21.81   |            |          |
| 20                                                        | 50        | 24        |        | 21.83  | 21.95  | 21.89   |            |          |
| 20                                                        | 50        | 50        |        | 21.83  | 21.92  | 21.87   |            |          |
| 20                                                        | 100       | 0         |        | 21.76  | 21.75  | 21.90   |            |          |
| 20                                                        | 1         | 0         | 16-QAM | 22.11  | 22.14  | 22.19   | 27.89      | 0.6152   |
| 20                                                        | 1         | 49        |        | 22.09  | 22.09  | 22.10   |            |          |
| 20                                                        | 1         | 99        |        | 22.01  | 22.16  | 22.00   |            |          |
| 20                                                        | 50        | 0         |        | 20.73  | 20.78  | 20.79   |            |          |
| 20                                                        | 50        | 24        |        | 20.89  | 20.93  | 20.97   |            |          |
| 20                                                        | 50        | 50        |        | 20.84  | 20.97  | 20.95   |            |          |
| 20                                                        | 100       | 0         |        | 20.83  | 20.82  | 20.88   |            |          |
| 20                                                        | 1         | 0         | 64-QAM | 20.97  | 20.97  | 21.08   | 26.84      | 0.4831   |
| 20                                                        | 1         | 49        |        | 20.94  | 20.97  | 21.06   |            |          |
| 20                                                        | 1         | 99        |        | 20.97  | 21.09  | 21.14   |            |          |
| 20                                                        | 50        | 0         |        | 19.75  | 19.84  | 19.81   |            |          |
| 20                                                        | 50        | 24        |        | 19.96  | 19.91  | 20.02   |            |          |
| 20                                                        | 50        | 50        |        | 19.85  | 19.95  | 19.95   |            |          |
| 20                                                        | 100       | 0         |        | 19.81  | 19.80  | 19.87   |            |          |
| Limit                                                     | EIRP < 2W |           |        | Result |        |         | Pass       |          |



# FCC RADIO TEST REPORT

Report No. : FG480602B

| LTE Band 2 Maximum Average Power [dBm] (GT - LC = 5.7 dB) |           |           |        |        |        |         |            |          |
|-----------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                  | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 15                                                        | 1         | 0         | QPSK   | 22.73  | 22.92  | 22.82   | 28.62      | 0.7278   |
| 15                                                        | 1         | 37        |        | 22.59  | 22.85  | 22.82   |            |          |
| 15                                                        | 1         | 74        |        | 22.68  | 22.84  | 22.76   |            |          |
| 15                                                        | 36        | 0         |        | 21.83  | 21.79  | 21.84   |            |          |
| 15                                                        | 36        | 20        |        | 21.91  | 21.87  | 21.85   |            |          |
| 15                                                        | 36        | 39        |        | 21.82  | 21.96  | 21.95   |            |          |
| 15                                                        | 75        | 0         |        | 21.83  | 21.77  | 21.89   |            |          |
| 15                                                        | 1         | 0         | 16-QAM | 21.99  | 22.08  | 22.14   | 27.93      | 0.6209   |
| 15                                                        | 1         | 37        |        | 21.99  | 22.10  | 22.11   |            |          |
| 15                                                        | 1         | 74        |        | 22.00  | 22.23  | 22.13   |            |          |
| 15                                                        | 36        | 0         |        | 20.82  | 20.82  | 20.79   |            |          |
| 15                                                        | 36        | 20        |        | 20.85  | 20.90  | 20.85   |            |          |
| 15                                                        | 36        | 39        |        | 20.84  | 21.01  | 20.97   |            |          |
| 15                                                        | 75        | 0         |        | 20.85  | 20.89  | 20.83   |            |          |
| 15                                                        | 1         | 0         | 64-QAM | 20.85  | 20.94  | 21.08   | 26.91      | 0.4909   |
| 15                                                        | 1         | 37        |        | 20.97  | 21.21  | 21.14   |            |          |
| 15                                                        | 1         | 74        |        | 20.95  | 21.05  | 21.13   |            |          |
| 15                                                        | 36        | 0         |        | 19.80  | 19.82  | 19.87   |            |          |
| 15                                                        | 36        | 20        |        | 19.89  | 19.85  | 19.91   |            |          |
| 15                                                        | 36        | 39        |        | 19.95  | 20.01  | 19.93   |            |          |
| 15                                                        | 75        | 0         |        | 19.86  | 19.87  | 19.91   |            |          |
| Limit                                                     | EIRP < 2W |           |        | Result |        |         | Pass       |          |



| LTE Band 2 Maximum Average Power [dBm] (GT - LC = 5.7 dB) |           |           |        |        |        |         |            |          |
|-----------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                  | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 10                                                        | 1         | 0         | QPSK   | 22.86  | 22.91  | 22.90   | 28.61      | 0.7261   |
| 10                                                        | 1         | 25        |        | 22.42  | 22.57  | 22.88   |            |          |
| 10                                                        | 1         | 49        |        | 22.56  | 22.62  | 22.88   |            |          |
| 10                                                        | 25        | 0         |        | 21.80  | 21.85  | 21.85   |            |          |
| 10                                                        | 25        | 12        |        | 21.88  | 21.91  | 22.00   |            |          |
| 10                                                        | 25        | 25        |        | 21.81  | 21.86  | 21.83   |            |          |
| 10                                                        | 50        | 0         |        | 21.85  | 21.83  | 22.00   |            |          |
| 10                                                        | 1         | 0         | 16-QAM | 21.80  | 21.88  | 22.29   | 28.00      | 0.6310   |
| 10                                                        | 1         | 25        |        | 22.23  | 22.27  | 22.30   |            |          |
| 10                                                        | 1         | 49        |        | 21.88  | 21.95  | 22.17   |            |          |
| 10                                                        | 25        | 0         |        | 20.84  | 20.83  | 20.85   |            |          |
| 10                                                        | 25        | 12        |        | 20.91  | 20.92  | 21.02   |            |          |
| 10                                                        | 25        | 25        |        | 20.76  | 20.85  | 20.89   |            |          |
| 10                                                        | 50        | 0         |        | 20.81  | 20.83  | 20.87   |            |          |
| 10                                                        | 1         | 0         | 64-QAM | 20.61  | 20.65  | 21.06   | 26.90      | 0.4898   |
| 10                                                        | 1         | 25        |        | 21.13  | 21.20  | 21.14   |            |          |
| 10                                                        | 1         | 49        |        | 20.70  | 20.84  | 21.04   |            |          |
| 10                                                        | 25        | 0         |        | 19.87  | 19.86  | 19.88   |            |          |
| 10                                                        | 25        | 12        |        | 19.96  | 20.01  | 20.03   |            |          |
| 10                                                        | 25        | 25        |        | 19.88  | 19.95  | 19.94   |            |          |
| 10                                                        | 50        | 0         |        | 19.83  | 19.89  | 19.95   |            |          |
| Limit                                                     | EIRP < 2W |           |        | Result |        |         | Pass       |          |



| LTE Band 2 Maximum Average Power [dBm] (GT - LC = 5.7 dB) |           |           |        |        |        |         |            |          |
|-----------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                  | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 5                                                         | 1         | 0         | QPSK   | 22.83  | 22.97  | 22.83   | 28.67      | 0.7362   |
| 5                                                         | 1         | 12        |        | 22.81  | 22.79  | 22.82   |            |          |
| 5                                                         | 1         | 24        |        | 22.70  | 22.78  | 22.82   |            |          |
| 5                                                         | 12        | 0         |        | 21.95  | 21.98  | 21.95   |            |          |
| 5                                                         | 12        | 7         |        | 21.94  | 21.94  | 22.01   |            |          |
| 5                                                         | 12        | 13        |        | 21.90  | 21.95  | 21.93   |            |          |
| 5                                                         | 25        | 0         |        | 21.90  | 21.90  | 21.93   |            |          |
| 5                                                         | 1         | 0         | 16-QAM | 22.13  | 22.05  | 22.16   | 27.93      | 0.6209   |
| 5                                                         | 1         | 12        |        | 22.20  | 22.21  | 22.23   |            |          |
| 5                                                         | 1         | 24        |        | 22.02  | 22.16  | 22.08   |            |          |
| 5                                                         | 12        | 0         |        | 20.98  | 20.97  | 21.00   |            |          |
| 5                                                         | 12        | 7         |        | 20.96  | 21.00  | 21.00   |            |          |
| 5                                                         | 12        | 13        |        | 20.92  | 21.01  | 20.95   |            |          |
| 5                                                         | 25        | 0         |        | 20.93  | 20.99  | 20.94   |            |          |
| 5                                                         | 1         | 0         | 64-QAM | 21.13  | 21.06  | 20.99   | 26.89      | 0.4887   |
| 5                                                         | 1         | 12        |        | 21.03  | 21.18  | 21.19   |            |          |
| 5                                                         | 1         | 24        |        | 20.99  | 21.06  | 21.10   |            |          |
| 5                                                         | 12        | 0         |        | 20.00  | 20.00  | 19.99   |            |          |
| 5                                                         | 12        | 7         |        | 19.99  | 20.03  | 20.03   |            |          |
| 5                                                         | 12        | 13        |        | 19.95  | 20.02  | 20.00   |            |          |
| 5                                                         | 25        | 0         |        | 19.92  | 19.90  | 19.95   |            |          |
| Limit                                                     | EIRP < 2W |           |        | Result |        |         | Pass       |          |



# FCC RADIO TEST REPORT

Report No. : FG480602B

| LTE Band 2 Maximum Average Power [dBm] (GT - LC = 5.7 dB) |           |           |        |        |        |         |            |          |
|-----------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                  | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 3                                                         | 1         | 0         | QPSK   | 22.86  | 23.01  | 22.92   | 28.71      | 0.7430   |
| 3                                                         | 1         | 8         |        | 22.85  | 22.87  | 22.90   |            |          |
| 3                                                         | 1         | 14        |        | 22.77  | 22.88  | 22.84   |            |          |
| 3                                                         | 8         | 0         |        | 21.96  | 22.00  | 21.97   |            |          |
| 3                                                         | 8         | 4         |        | 21.99  | 21.94  | 22.05   |            |          |
| 3                                                         | 8         | 7         |        | 21.86  | 21.98  | 21.92   |            |          |
| 3                                                         | 15        | 0         |        | 21.93  | 21.92  | 22.00   |            |          |
| 3                                                         | 1         | 0         | 16-QAM | 22.11  | 22.20  | 22.28   | 28.01      | 0.6324   |
| 3                                                         | 1         | 8         |        | 22.18  | 22.31  | 22.28   |            |          |
| 3                                                         | 1         | 14        |        | 22.12  | 22.19  | 22.17   |            |          |
| 3                                                         | 8         | 0         |        | 20.99  | 21.01  | 21.08   |            |          |
| 3                                                         | 8         | 4         |        | 21.00  | 21.01  | 21.06   |            |          |
| 3                                                         | 8         | 7         |        | 20.93  | 21.03  | 21.05   |            |          |
| 3                                                         | 15        | 0         |        | 20.94  | 20.99  | 21.04   |            |          |
| 3                                                         | 1         | 0         | 64-QAM | 21.16  | 21.16  | 21.12   | 26.91      | 0.4909   |
| 3                                                         | 1         | 8         |        | 21.12  | 21.21  | 21.18   |            |          |
| 3                                                         | 1         | 14        |        | 21.07  | 21.05  | 21.05   |            |          |
| 3                                                         | 8         | 0         |        | 19.98  | 20.00  | 20.05   |            |          |
| 3                                                         | 8         | 4         |        | 20.00  | 20.06  | 20.07   |            |          |
| 3                                                         | 8         | 7         |        | 19.93  | 20.01  | 20.02   |            |          |
| 3                                                         | 15        | 0         |        | 19.92  | 20.01  | 20.03   |            |          |
| Limit                                                     | EIRP < 2W |           |        | Result |        |         | Pass       |          |



| LTE Band 2 Maximum Average Power [dBm] (GT - LC = 5.7 dB) |           |           |        |        |        |         |            |          |
|-----------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                  | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 1.4                                                       | 1         | 0         | QPSK   | 22.80  | 22.93  | 22.89   | 28.63      | 0.7295   |
| 1.4                                                       | 1         | 3         |        | 22.78  | 22.91  | 22.88   |            |          |
| 1.4                                                       | 1         | 5         |        | 22.74  | 22.78  | 22.82   |            |          |
| 1.4                                                       | 3         | 0         |        | 22.78  | 22.87  | 22.86   |            |          |
| 1.4                                                       | 3         | 1         |        | 22.85  | 22.89  | 22.90   |            |          |
| 1.4                                                       | 3         | 3         |        | 22.76  | 22.88  | 22.81   |            |          |
| 1.4                                                       | 6         | 0         |        | 21.84  | 21.93  | 21.91   |            |          |
| 1.4                                                       | 1         | 0         | 16-QAM | 22.09  | 22.12  | 22.13   | 27.96      | 0.6252   |
| 1.4                                                       | 1         | 3         |        | 22.19  | 22.22  | 22.26   |            |          |
| 1.4                                                       | 1         | 5         |        | 22.02  | 22.17  | 22.11   |            |          |
| 1.4                                                       | 3         | 0         |        | 21.88  | 21.92  | 21.96   |            |          |
| 1.4                                                       | 3         | 1         |        | 21.94  | 22.02  | 22.00   |            |          |
| 1.4                                                       | 3         | 3         |        | 21.75  | 21.93  | 21.87   |            |          |
| 1.4                                                       | 6         | 0         |        | 20.96  | 20.96  | 21.02   |            |          |
| 1.4                                                       | 1         | 0         | 64-QAM | 21.01  | 21.11  | 21.05   | 26.86      | 0.4853   |
| 1.4                                                       | 1         | 3         |        | 21.04  | 21.16  | 21.05   |            |          |
| 1.4                                                       | 1         | 5         |        | 20.96  | 21.08  | 21.03   |            |          |
| 1.4                                                       | 3         | 0         |        | 20.97  | 21.07  | 21.06   |            |          |
| 1.4                                                       | 3         | 1         |        | 21.02  | 21.13  | 21.09   |            |          |
| 1.4                                                       | 3         | 3         |        | 20.95  | 21.04  | 21.07   |            |          |
| 1.4                                                       | 6         | 0         |        | 19.86  | 19.93  | 19.93   |            |          |
| Limit                                                     | EIRP < 2W |           |        | Result |        |         | Pass       |          |



| LTE Band 5 Maximum Average Power [dBm] (GT - LC = 5.5 dB) |          |           |        |        |        |         |           |         |
|-----------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                  | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 10                                                        | 1        | 0         | QPSK   | 22.76  | 22.93  | 22.84   | 26.28     | 0.4246  |
| 10                                                        | 1        | 25        |        | 22.62  | 22.75  | 22.80   |           |         |
| 10                                                        | 1        | 49        |        | 22.72  | 22.76  | 22.80   |           |         |
| 10                                                        | 25       | 0         |        | 21.75  | 21.80  | 21.81   |           |         |
| 10                                                        | 25       | 12        |        | 21.83  | 21.83  | 21.77   |           |         |
| 10                                                        | 25       | 25        |        | 21.78  | 21.87  | 21.82   |           |         |
| 10                                                        | 50       | 0         |        | 21.78  | 21.75  | 21.75   |           |         |
| 10                                                        | 1        | 0         | 16-QAM | 22.19  | 22.11  | 22.13   | 25.54     | 0.3581  |
| 10                                                        | 1        | 25        |        | 22.06  | 22.16  | 22.07   |           |         |
| 10                                                        | 1        | 49        |        | 22.07  | 22.16  | 22.03   |           |         |
| 10                                                        | 25       | 0         |        | 20.76  | 20.81  | 20.76   |           |         |
| 10                                                        | 25       | 12        |        | 20.86  | 20.78  | 20.79   |           |         |
| 10                                                        | 25       | 25        |        | 20.75  | 20.82  | 20.76   |           |         |
| 10                                                        | 50       | 0         |        | 20.72  | 20.75  | 20.66   |           |         |
| 10                                                        | 1        | 0         | 64-QAM | 20.88  | 21.05  | 20.87   | 24.40     | 0.2754  |
| 10                                                        | 1        | 25        |        | 21.04  | 21.05  | 21.00   |           |         |
| 10                                                        | 1        | 49        |        | 20.98  | 21.03  | 20.97   |           |         |
| 10                                                        | 25       | 0         |        | 19.84  | 19.87  | 19.83   |           |         |
| 10                                                        | 25       | 12        |        | 19.83  | 19.88  | 19.89   |           |         |
| 10                                                        | 25       | 25        |        | 19.84  | 19.84  | 19.91   |           |         |
| 10                                                        | 50       | 0         |        | 19.78  | 19.74  | 19.76   |           |         |
| Limit                                                     | ERP < 7W |           |        | Result |        |         | Pass      |         |



| LTE Band 5 Maximum Average Power [dBm] (GT - LC = 5.5 dB) |          |           |        |        |        |         |           |         |
|-----------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                  | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 5                                                         | 1        | 0         | QPSK   | 22.67  | 22.86  | 22.85   | 26.21     | 0.4178  |
| 5                                                         | 1        | 12        |        | 22.60  | 22.68  | 22.70   |           |         |
| 5                                                         | 1        | 24        |        | 22.59  | 22.75  | 22.73   |           |         |
| 5                                                         | 12       | 0         |        | 21.72  | 21.81  | 21.81   |           |         |
| 5                                                         | 12       | 7         |        | 21.78  | 21.88  | 21.88   |           |         |
| 5                                                         | 12       | 13        |        | 21.79  | 21.89  | 21.81   |           |         |
| 5                                                         | 25       | 0         |        | 21.73  | 21.79  | 21.88   |           |         |
| 5                                                         | 1        | 0         | 16-QAM | 21.90  | 22.02  | 21.98   | 25.52     | 0.3565  |
| 5                                                         | 1        | 12        |        | 22.13  | 22.17  | 22.11   |           |         |
| 5                                                         | 1        | 24        |        | 21.99  | 22.09  | 22.05   |           |         |
| 5                                                         | 12       | 0         |        | 20.75  | 20.83  | 20.78   |           |         |
| 5                                                         | 12       | 7         |        | 20.91  | 20.96  | 20.88   |           |         |
| 5                                                         | 12       | 13        |        | 20.75  | 20.86  | 20.80   |           |         |
| 5                                                         | 25       | 0         |        | 20.82  | 20.84  | 20.93   |           |         |
| 5                                                         | 1        | 0         | 64-QAM | 20.82  | 20.93  | 21.00   | 24.46     | 0.2793  |
| 5                                                         | 1        | 12        |        | 20.91  | 21.11  | 21.01   |           |         |
| 5                                                         | 1        | 24        |        | 20.99  | 20.98  | 20.97   |           |         |
| 5                                                         | 12       | 0         |        | 19.74  | 19.89  | 19.83   |           |         |
| 5                                                         | 12       | 7         |        | 19.88  | 19.94  | 19.89   |           |         |
| 5                                                         | 12       | 13        |        | 19.85  | 19.91  | 19.88   |           |         |
| 5                                                         | 25       | 0         |        | 19.77  | 19.81  | 19.95   |           |         |
| Limit                                                     | ERP < 7W |           |        | Result |        |         | Pass      |         |



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| LTE Band 5 Maximum Average Power [dBm] (GT - LC = 5.5 dB) |          |           |        |        |        |         |           |         |
|-----------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                  | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 3                                                         | 1        | 0         | QPSK   | 22.56  | 22.81  | 22.65   | 26.16     | 0.4130  |
| 3                                                         | 1        | 8         |        | 22.51  | 22.57  | 22.51   |           |         |
| 3                                                         | 1        | 14        |        | 22.58  | 22.67  | 22.58   |           |         |
| 3                                                         | 8        | 0         |        | 21.66  | 21.80  | 21.75   |           |         |
| 3                                                         | 8        | 4         |        | 21.66  | 21.75  | 21.83   |           |         |
| 3                                                         | 8        | 7         |        | 21.67  | 21.76  | 21.69   |           |         |
| 3                                                         | 15       | 0         |        | 21.71  | 21.69  | 21.75   |           |         |
| 3                                                         | 1        | 0         | 16-QAM | 21.86  | 21.94  | 21.92   | 25.46     | 0.3516  |
| 3                                                         | 1        | 8         |        | 22.06  | 22.11  | 21.92   |           |         |
| 3                                                         | 1        | 14        |        | 21.87  | 22.07  | 21.88   |           |         |
| 3                                                         | 8        | 0         |        | 20.75  | 20.68  | 20.71   |           |         |
| 3                                                         | 8        | 4         |        | 20.79  | 20.93  | 20.77   |           |         |
| 3                                                         | 8        | 7         |        | 20.64  | 20.83  | 20.77   |           |         |
| 3                                                         | 15       | 0         |        | 20.72  | 20.82  | 20.79   |           |         |
| 3                                                         | 1        | 0         | 64-QAM | 20.77  | 20.76  | 20.88   | 24.33     | 0.2710  |
| 3                                                         | 1        | 8         |        | 20.82  | 20.92  | 20.92   |           |         |
| 3                                                         | 1        | 14        |        | 20.85  | 20.98  | 20.84   |           |         |
| 3                                                         | 8        | 0         |        | 19.73  | 19.70  | 19.79   |           |         |
| 3                                                         | 8        | 4         |        | 19.78  | 19.81  | 19.87   |           |         |
| 3                                                         | 8        | 7         |        | 19.82  | 19.89  | 19.78   |           |         |
| 3                                                         | 15       | 0         |        | 19.60  | 19.78  | 19.86   |           |         |
| Limit                                                     | ERP < 7W |           |        | Result |        |         | Pass      |         |



| LTE Band 5 Maximum Average Power [dBm] (GT - LC = 5.5 dB) |          |           |        |        |        |         |           |         |
|-----------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                  | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 1.4                                                       | 1        | 0         | QPSK   | 22.61  | 22.75  | 22.83   | 26.18     | 0.4150  |
| 1.4                                                       | 1        | 3         |        | 22.57  | 22.55  | 22.78   |           |         |
| 1.4                                                       | 1        | 5         |        | 22.60  | 22.65  | 22.67   |           |         |
| 1.4                                                       | 3        | 0         |        | 22.41  | 22.55  | 22.65   |           |         |
| 1.4                                                       | 3        | 1         |        | 22.45  | 22.39  | 22.73   |           |         |
| 1.4                                                       | 3        | 3         |        | 22.54  | 22.52  | 22.59   |           |         |
| 1.4                                                       | 6        | 0         |        | 21.76  | 21.67  | 21.66   |           |         |
| 1.4                                                       | 1        | 0         | 16-QAM | 22.09  | 21.96  | 22.12   | 25.47     | 0.3524  |
| 1.4                                                       | 1        | 3         |        | 21.97  | 21.99  | 21.98   |           |         |
| 1.4                                                       | 1        | 5         |        | 22.01  | 22.06  | 21.89   |           |         |
| 1.4                                                       | 3        | 0         |        | 22.08  | 21.80  | 21.93   |           |         |
| 1.4                                                       | 3        | 1         |        | 21.81  | 21.86  | 21.88   |           |         |
| 1.4                                                       | 3        | 3         |        | 22.00  | 22.03  | 21.78   |           |         |
| 1.4                                                       | 6        | 0         |        | 20.61  | 20.63  | 20.53   |           |         |
| 1.4                                                       | 1        | 0         | 64-QAM | 20.80  | 21.01  | 20.78   | 24.38     | 0.2742  |
| 1.4                                                       | 1        | 3         |        | 20.91  | 20.94  | 20.97   |           |         |
| 1.4                                                       | 1        | 5         |        | 20.88  | 21.03  | 20.84   |           |         |
| 1.4                                                       | 3        | 0         |        | 20.68  | 20.68  | 20.69   |           |         |
| 1.4                                                       | 3        | 1         |        | 20.70  | 20.64  | 20.63   |           |         |
| 1.4                                                       | 3        | 3         |        | 20.85  | 21.03  | 20.68   |           |         |
| 1.4                                                       | 6        | 0         |        | 19.76  | 19.69  | 19.59   |           |         |
| Limit                                                     | ERP < 7W |           |        | Result |        |         | Pass      |         |



| LTE Band 7 Maximum Average Power [dBm] (GT - LC = 6.73 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 20                                                         | 1         | 0         | QPSK   | 22.91  | 22.41  | 22.30   | 29.64      | 0.9204   |
| 20                                                         | 1         | 49        |        | 22.65  | 22.17  | 22.01   |            |          |
| 20                                                         | 1         | 99        |        | 22.47  | 22.33  | 22.28   |            |          |
| 20                                                         | 50        | 0         |        | 21.60  | 21.24  | 21.12   |            |          |
| 20                                                         | 50        | 24        |        | 21.75  | 21.28  | 21.06   |            |          |
| 20                                                         | 50        | 50        |        | 21.60  | 21.10  | 21.00   |            |          |
| 20                                                         | 100       | 0         |        | 21.68  | 21.25  | 21.02   |            |          |
| 20                                                         | 1         | 0         | 16-QAM | 22.08  | 21.71  | 21.40   | 28.81      | 0.7603   |
| 20                                                         | 1         | 49        |        | 22.05  | 21.40  | 21.25   |            |          |
| 20                                                         | 1         | 99        |        | 21.76  | 21.30  | 21.36   |            |          |
| 20                                                         | 50        | 0         |        | 20.63  | 20.19  | 20.06   |            |          |
| 20                                                         | 50        | 24        |        | 20.76  | 20.28  | 20.10   |            |          |
| 20                                                         | 50        | 50        |        | 20.64  | 20.10  | 20.04   |            |          |
| 20                                                         | 100       | 0         |        | 20.67  | 20.25  | 20.04   |            |          |
| 20                                                         | 1         | 0         | 64-QAM | 20.91  | 20.52  | 20.34   | 27.64      | 0.5808   |
| 20                                                         | 1         | 49        |        | 20.85  | 20.33  | 20.19   |            |          |
| 20                                                         | 1         | 99        |        | 20.71  | 20.25  | 20.23   |            |          |
| 20                                                         | 50        | 0         |        | 19.66  | 19.28  | 19.11   |            |          |
| 20                                                         | 50        | 24        |        | 19.81  | 19.37  | 19.12   |            |          |
| 20                                                         | 50        | 50        |        | 19.63  | 19.15  | 19.03   |            |          |
| 20                                                         | 100       | 0         |        | 19.68  | 19.26  | 19.07   |            |          |
| Limit                                                      | EIRP < 2W |           |        | Result |        |         | Pass       |          |



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| LTE Band 7 Maximum Average Power [dBm] (GT - LC = 6.73 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 15                                                         | 1         | 0         | QPSK   | 22.80  | 22.29  | 22.28   | 29.53      | 0.8974   |
| 15                                                         | 1         | 37        |        | 22.69  | 22.15  | 22.10   |            |          |
| 15                                                         | 1         | 74        |        | 22.59  | 22.11  | 22.24   |            |          |
| 15                                                         | 36        | 0         |        | 21.69  | 21.30  | 21.06   |            |          |
| 15                                                         | 36        | 20        |        | 21.82  | 21.30  | 21.16   |            |          |
| 15                                                         | 36        | 39        |        | 21.73  | 21.16  | 21.10   |            |          |
| 15                                                         | 75        | 0         |        | 21.79  | 21.22  | 21.06   |            |          |
| 15                                                         | 1         | 0         | 16-QAM | 22.11  | 21.60  | 21.35   | 28.84      | 0.7656   |
| 15                                                         | 1         | 37        |        | 22.01  | 21.46  | 21.41   |            |          |
| 15                                                         | 1         | 74        |        | 21.98  | 21.27  | 21.36   |            |          |
| 15                                                         | 36        | 0         |        | 20.69  | 20.22  | 20.11   |            |          |
| 15                                                         | 36        | 20        |        | 20.80  | 20.26  | 20.21   |            |          |
| 15                                                         | 36        | 39        |        | 20.73  | 20.09  | 20.06   |            |          |
| 15                                                         | 75        | 0         |        | 20.77  | 20.23  | 20.03   |            |          |
| 15                                                         | 1         | 0         | 64-QAM | 20.97  | 20.37  | 20.31   | 27.70      | 0.5888   |
| 15                                                         | 1         | 37        |        | 20.94  | 20.40  | 20.32   |            |          |
| 15                                                         | 1         | 74        |        | 20.79  | 20.27  | 20.27   |            |          |
| 15                                                         | 36        | 0         |        | 19.74  | 19.24  | 19.09   |            |          |
| 15                                                         | 36        | 20        |        | 19.90  | 19.36  | 19.17   |            |          |
| 15                                                         | 36        | 39        |        | 19.79  | 19.15  | 19.08   |            |          |
| 15                                                         | 75        | 0         |        | 19.79  | 19.29  | 19.04   |            |          |
| Limit                                                      | EIRP < 2W |           |        | Result |        |         | Pass       |          |



# FCC RADIO TEST REPORT

Report No. : FG480602B

| LTE Band 7 Maximum Average Power [dBm] (GT - LC = 6.73 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 10                                                         | 1         | 0         | QPSK   | 22.73  | 22.29  | 22.11   | 29.46      | 0.8831   |
| 10                                                         | 1         | 25        |        | 22.63  | 22.17  | 22.05   |            |          |
| 10                                                         | 1         | 49        |        | 22.65  | 22.11  | 22.02   |            |          |
| 10                                                         | 25        | 0         |        | 21.78  | 21.26  | 21.05   |            |          |
| 10                                                         | 25        | 12        |        | 21.78  | 21.30  | 21.09   |            |          |
| 10                                                         | 25        | 25        |        | 21.77  | 21.24  | 21.11   |            |          |
| 10                                                         | 50        | 0         |        | 21.74  | 21.19  | 21.01   |            |          |
| 10                                                         | 1         | 0         | 16-QAM | 22.14  | 21.64  | 21.35   | 28.87      | 0.7709   |
| 10                                                         | 1         | 25        |        | 22.07  | 21.52  | 21.32   |            |          |
| 10                                                         | 1         | 49        |        | 21.99  | 21.43  | 21.34   |            |          |
| 10                                                         | 25        | 0         |        | 20.76  | 20.27  | 20.07   |            |          |
| 10                                                         | 25        | 12        |        | 20.86  | 20.30  | 20.06   |            |          |
| 10                                                         | 25        | 25        |        | 20.82  | 20.19  | 20.05   |            |          |
| 10                                                         | 50        | 0         |        | 20.75  | 20.23  | 20.01   |            |          |
| 10                                                         | 1         | 0         | 64-QAM | 20.89  | 20.44  | 20.29   | 27.68      | 0.5861   |
| 10                                                         | 1         | 25        |        | 20.95  | 20.51  | 20.29   |            |          |
| 10                                                         | 1         | 49        |        | 20.90  | 20.37  | 20.22   |            |          |
| 10                                                         | 25        | 0         |        | 19.79  | 19.19  | 19.12   |            |          |
| 10                                                         | 25        | 12        |        | 19.91  | 19.35  | 19.14   |            |          |
| 10                                                         | 25        | 25        |        | 19.89  | 19.30  | 19.13   |            |          |
| 10                                                         | 50        | 0         |        | 19.78  | 19.25  | 19.01   |            |          |
| Limit                                                      | EIRP < 2W |           |        | Result |        |         | Pass       |          |



# FCC RADIO TEST REPORT

Report No. : FG480602B

| LTE Band 7 Maximum Average Power [dBm] (GT - LC = 6.73 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 5                                                          | 1         | 0         | QPSK   | 22.89  | 22.31  | 22.15   | 29.62      | 0.9162   |
| 5                                                          | 1         | 12        |        | 22.86  | 22.26  | 22.14   |            |          |
| 5                                                          | 1         | 24        |        | 22.78  | 22.16  | 22.07   |            |          |
| 5                                                          | 12        | 0         |        | 21.87  | 21.24  | 21.06   |            |          |
| 5                                                          | 12        | 7         |        | 21.90  | 21.29  | 21.19   |            |          |
| 5                                                          | 12        | 13        |        | 21.79  | 21.21  | 21.11   |            |          |
| 5                                                          | 25        | 0         |        | 21.80  | 21.26  | 21.08   |            |          |
| 5                                                          | 1         | 0         | 16-QAM | 22.09  | 21.57  | 21.42   | 28.93      | 0.7816   |
| 5                                                          | 1         | 12        |        | 22.20  | 21.64  | 21.41   |            |          |
| 5                                                          | 1         | 24        |        | 22.11  | 21.53  | 21.34   |            |          |
| 5                                                          | 12        | 0         |        | 20.84  | 20.24  | 20.08   |            |          |
| 5                                                          | 12        | 7         |        | 20.88  | 20.32  | 20.22   |            |          |
| 5                                                          | 12        | 13        |        | 20.84  | 20.22  | 20.12   |            |          |
| 5                                                          | 25        | 0         |        | 20.85  | 20.24  | 20.12   |            |          |
| 5                                                          | 1         | 0         | 64-QAM | 21.03  | 20.54  | 20.33   | 27.82      | 0.6053   |
| 5                                                          | 1         | 12        |        | 20.99  | 20.53  | 20.29   |            |          |
| 5                                                          | 1         | 24        |        | 21.09  | 20.42  | 20.33   |            |          |
| 5                                                          | 12        | 0         |        | 19.87  | 19.30  | 19.14   |            |          |
| 5                                                          | 12        | 7         |        | 19.89  | 19.36  | 19.22   |            |          |
| 5                                                          | 12        | 13        |        | 19.85  | 19.32  | 19.12   |            |          |
| 5                                                          | 25        | 0         |        | 19.86  | 19.27  | 19.13   |            |          |
| Limit                                                      | EIRP < 2W |           |        | Result |        |         | Pass       |          |



# FCC RADIO TEST REPORT

Report No. : FG480602B

| LTE Band 12 Maximum Average Power [dBm] (GT - LC = 5.21 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 10                                                          | 1        | 0         | QPSK   | 22.71  | 22.77  | 22.75   | 25.83     | 0.3828  |
| 10                                                          | 1        | 25        |        | 22.68  | 22.58  | 22.57   |           |         |
| 10                                                          | 1        | 49        |        | 22.66  | 22.61  | 22.70   |           |         |
| 10                                                          | 25       | 0         |        | 21.69  | 21.61  | 21.62   |           |         |
| 10                                                          | 25       | 12        |        | 21.79  | 21.84  | 21.74   |           |         |
| 10                                                          | 25       | 25        |        | 21.67  | 21.74  | 21.71   |           |         |
| 10                                                          | 50       | 0         |        | 21.73  | 21.68  | 21.57   |           |         |
| 10                                                          | 1        | 0         | 16-QAM | 22.00  | 22.02  | 22.07   | 25.13     | 0.3258  |
| 10                                                          | 1        | 25        |        | 22.04  | 21.95  | 22.04   |           |         |
| 10                                                          | 1        | 49        |        | 21.97  | 22.05  | 22.01   |           |         |
| 10                                                          | 25       | 0         |        | 20.67  | 20.58  | 20.66   |           |         |
| 10                                                          | 25       | 12        |        | 20.80  | 20.81  | 20.75   |           |         |
| 10                                                          | 25       | 25        |        | 20.68  | 20.66  | 20.71   |           |         |
| 10                                                          | 50       | 0         |        | 20.75  | 20.68  | 20.62   |           |         |
| 10                                                          | 1        | 0         | 64-QAM | 20.92  | 20.95  | 20.82   | 24.06     | 0.2547  |
| 10                                                          | 1        | 25        |        | 20.88  | 20.99  | 20.84   |           |         |
| 10                                                          | 1        | 49        |        | 21.00  | 20.78  | 20.92   |           |         |
| 10                                                          | 25       | 0         |        | 19.72  | 19.64  | 19.68   |           |         |
| 10                                                          | 25       | 12        |        | 19.87  | 19.86  | 19.80   |           |         |
| 10                                                          | 25       | 25        |        | 19.68  | 19.70  | 19.76   |           |         |
| 10                                                          | 50       | 0         |        | 19.81  | 19.78  | 19.66   |           |         |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |



# FCC RADIO TEST REPORT

Report No. : FG480602B

| LTE Band 12 Maximum Average Power [dBm] (GT - LC = 5.21 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 5                                                           | 1        | 0         | QPSK   | 22.60  | 22.64  | 22.71   | 25.77     | 0.3776  |
| 5                                                           | 1        | 12        |        | 22.63  | 22.53  | 22.45   |           |         |
| 5                                                           | 1        | 24        |        | 22.65  | 22.58  | 22.51   |           |         |
| 5                                                           | 12       | 0         |        | 21.61  | 21.44  | 21.56   |           |         |
| 5                                                           | 12       | 7         |        | 21.77  | 21.72  | 21.61   |           |         |
| 5                                                           | 12       | 13        |        | 21.67  | 21.58  | 21.55   |           |         |
| 5                                                           | 25       | 0         |        | 21.73  | 21.62  | 21.56   |           |         |
| 5                                                           | 1        | 0         | 16-QAM | 21.90  | 21.98  | 21.94   | 25.06     | 0.3206  |
| 5                                                           | 1        | 12        |        | 22.00  | 21.91  | 21.90   |           |         |
| 5                                                           | 1        | 24        |        | 21.79  | 21.96  | 21.92   |           |         |
| 5                                                           | 12       | 0         |        | 20.55  | 20.55  | 20.60   |           |         |
| 5                                                           | 12       | 7         |        | 20.78  | 20.68  | 20.70   |           |         |
| 5                                                           | 12       | 13        |        | 20.55  | 20.48  | 20.52   |           |         |
| 5                                                           | 25       | 0         |        | 20.63  | 20.64  | 20.42   |           |         |
| 5                                                           | 1        | 0         | 64-QAM | 20.92  | 20.83  | 20.73   | 23.99     | 0.2506  |
| 5                                                           | 1        | 12        |        | 20.70  | 20.84  | 20.80   |           |         |
| 5                                                           | 1        | 24        |        | 20.93  | 20.71  | 20.79   |           |         |
| 5                                                           | 12       | 0         |        | 19.65  | 19.45  | 19.55   |           |         |
| 5                                                           | 12       | 7         |        | 19.85  | 19.82  | 19.77   |           |         |
| 5                                                           | 12       | 13        |        | 19.62  | 19.61  | 19.57   |           |         |
| 5                                                           | 25       | 0         |        | 19.80  | 19.65  | 19.53   |           |         |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |



# FCC RADIO TEST REPORT

Report No. : FG480602B

| LTE Band 12 Maximum Average Power [dBm] (GT - LC = 5.21 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 3                                                           | 1        | 0         | QPSK   | 22.67  | 22.57  | 22.60   | 25.73     | 0.3741  |
| 3                                                           | 1        | 8         |        | 22.59  | 22.41  | 22.38   |           |         |
| 3                                                           | 1        | 14        |        | 22.55  | 22.58  | 22.60   |           |         |
| 3                                                           | 8        | 0         |        | 21.62  | 21.41  | 21.46   |           |         |
| 3                                                           | 8        | 4         |        | 21.74  | 21.72  | 21.57   |           |         |
| 3                                                           | 8        | 7         |        | 21.58  | 21.54  | 21.64   |           |         |
| 3                                                           | 15       | 0         |        | 21.61  | 21.55  | 21.49   |           |         |
| 3                                                           | 1        | 0         | 16-QAM | 21.92  | 21.91  | 22.07   | 25.13     | 0.3258  |
| 3                                                           | 1        | 8         |        | 21.89  | 21.83  | 21.93   |           |         |
| 3                                                           | 1        | 14        |        | 21.83  | 21.90  | 21.86   |           |         |
| 3                                                           | 8        | 0         |        | 20.59  | 20.58  | 20.49   |           |         |
| 3                                                           | 8        | 4         |        | 20.77  | 20.73  | 20.64   |           |         |
| 3                                                           | 8        | 7         |        | 20.64  | 20.63  | 20.52   |           |         |
| 3                                                           | 15       | 0         |        | 20.59  | 20.61  | 20.62   |           |         |
| 3                                                           | 1        | 0         | 64-QAM | 20.88  | 20.90  | 20.69   | 24.03     | 0.2529  |
| 3                                                           | 1        | 8         |        | 20.80  | 20.95  | 20.69   |           |         |
| 3                                                           | 1        | 14        |        | 20.97  | 20.76  | 20.74   |           |         |
| 3                                                           | 8        | 0         |        | 19.59  | 19.53  | 19.68   |           |         |
| 3                                                           | 8        | 4         |        | 19.71  | 19.72  | 19.66   |           |         |
| 3                                                           | 8        | 7         |        | 19.68  | 19.58  | 19.64   |           |         |
| 3                                                           | 15       | 0         |        | 19.72  | 19.67  | 19.61   |           |         |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |



# FCC RADIO TEST REPORT

Report No. : FG480602B

| LTE Band 12 Maximum Average Power [dBm] (GT - LC = 5.21 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 1.4                                                         | 1        | 0         | QPSK   | 22.60  | 22.63  | 22.69   | 25.75     | 0.3758  |
| 1.4                                                         | 1        | 3         |        | 22.59  | 22.42  | 22.41   |           |         |
| 1.4                                                         | 1        | 5         |        | 22.57  | 22.48  | 22.51   |           |         |
| 1.4                                                         | 3        | 0         |        | 22.55  | 22.68  | 22.61   |           |         |
| 1.4                                                         | 3        | 1         |        | 22.65  | 22.56  | 22.46   |           |         |
| 1.4                                                         | 3        | 3         |        | 22.57  | 22.43  | 22.56   |           |         |
| 1.4                                                         | 6        | 0         |        | 21.54  | 21.54  | 21.41   |           |         |
| 1.4                                                         | 1        | 0         | 16-QAM | 21.90  | 21.91  | 21.97   | 25.12     | 0.3251  |
| 1.4                                                         | 1        | 3         |        | 21.95  | 21.86  | 21.97   |           |         |
| 1.4                                                         | 1        | 5         |        | 21.84  | 21.85  | 21.83   |           |         |
| 1.4                                                         | 3        | 0         |        | 21.55  | 21.64  | 21.45   |           |         |
| 1.4                                                         | 3        | 1         |        | 21.97  | 21.99  | 22.06   |           |         |
| 1.4                                                         | 3        | 3         |        | 22.01  | 21.85  | 22.04   |           |         |
| 1.4                                                         | 6        | 0         |        | 20.68  | 20.61  | 20.46   |           |         |
| 1.4                                                         | 1        | 0         | 64-QAM | 20.91  | 20.81  | 20.62   | 24.03     | 0.2529  |
| 1.4                                                         | 1        | 3         |        | 20.77  | 20.84  | 20.73   |           |         |
| 1.4                                                         | 1        | 5         |        | 20.97  | 20.77  | 20.90   |           |         |
| 1.4                                                         | 3        | 0         |        | 20.57  | 20.61  | 20.47   |           |         |
| 1.4                                                         | 3        | 1         |        | 20.91  | 20.78  | 20.70   |           |         |
| 1.4                                                         | 3        | 3         |        | 20.85  | 20.80  | 20.68   |           |         |
| 1.4                                                         | 6        | 0         |        | 19.78  | 19.61  | 19.56   |           |         |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |



| LTE Band 13 Maximum Average Power [dBm] (GT - LC = 6.16 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 10                                                          | 1        | 0         | QPSK   | -      | 22.63  | -       | 26.64     | 0.4613  |
| 10                                                          | 1        | 25        |        |        | 22.36  |         |           |         |
| 10                                                          | 1        | 49        |        |        | 22.41  |         |           |         |
| 10                                                          | 25       | 0         |        |        | 21.51  |         |           |         |
| 10                                                          | 25       | 12        |        |        | 21.55  |         |           |         |
| 10                                                          | 25       | 25        |        |        | 21.43  |         |           |         |
| 10                                                          | 50       | 0         |        |        | 21.26  |         |           |         |
| 10                                                          | 1        | 0         | 16-QAM |        | 21.22  |         | 25.90     | 0.3890  |
| 10                                                          | 1        | 25        |        |        | 21.89  |         |           |         |
| 10                                                          | 1        | 49        |        |        | 21.68  |         |           |         |
| 10                                                          | 25       | 0         |        |        | 20.52  |         |           |         |
| 10                                                          | 25       | 12        |        |        | 20.57  |         |           |         |
| 10                                                          | 25       | 25        |        |        | 20.35  |         |           |         |
| 10                                                          | 50       | 0         |        |        | 20.21  |         |           |         |
| 10                                                          | 1        | 0         | 64-QAM |        | 20.02  |         | 24.82     | 0.3034  |
| 10                                                          | 1        | 25        |        |        | 20.81  |         |           |         |
| 10                                                          | 1        | 49        |        |        | 20.48  |         |           |         |
| 10                                                          | 25       | 0         |        |        | 19.32  |         |           |         |
| 10                                                          | 25       | 12        |        |        | 19.39  |         |           |         |
| 10                                                          | 25       | 25        |        |        | 19.14  |         |           |         |
| 10                                                          | 50       | 0         |        |        | 19.00  |         |           |         |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |



| LTE Band 13 Maximum Average Power [dBm] (GT - LC = 6.16 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 5                                                           | 1        | 0         | QPSK   | 22.47  | 22.49  | 22.39   | 26.50     | 0.4467  |
| 5                                                           | 1        | 12        |        | 22.19  | 22.28  | 22.10   |           |         |
| 5                                                           | 1        | 24        |        | 22.38  | 22.39  | 22.06   |           |         |
| 5                                                           | 12       | 0         |        | 21.33  | 21.44  | 21.31   |           |         |
| 5                                                           | 12       | 7         |        | 21.49  | 21.42  | 21.25   |           |         |
| 5                                                           | 12       | 13        |        | 21.41  | 21.24  | 21.30   |           |         |
| 5                                                           | 25       | 0         |        | 21.26  | 21.13  | 21.06   |           |         |
| 5                                                           | 1        | 0         | 16-QAM | 21.11  | 21.09  | 21.04   | 25.87     | 0.3864  |
| 5                                                           | 1        | 12        |        | 21.70  | 21.86  | 21.61   |           |         |
| 5                                                           | 1        | 24        |        | 21.54  | 21.51  | 21.63   |           |         |
| 5                                                           | 12       | 0         |        | 20.39  | 20.41  | 20.17   |           |         |
| 5                                                           | 12       | 7         |        | 20.55  | 20.56  | 20.39   |           |         |
| 5                                                           | 12       | 13        |        | 20.30  | 20.22  | 20.13   |           |         |
| 5                                                           | 25       | 0         |        | 20.08  | 20.14  | 20.05   |           |         |
| 5                                                           | 1        | 0         | 64-QAM | 20.06  | 20.01  | 20.11   | 24.78     | 0.3006  |
| 5                                                           | 1        | 12        |        | 20.77  | 20.76  | 20.61   |           |         |
| 5                                                           | 1        | 24        |        | 20.43  | 20.42  | 20.36   |           |         |
| 5                                                           | 12       | 0         |        | 19.18  | 19.27  | 19.11   |           |         |
| 5                                                           | 12       | 7         |        | 19.25  | 19.26  | 19.11   |           |         |
| 5                                                           | 12       | 13        |        | 19.01  | 19.04  | 19.09   |           |         |
| 5                                                           | 25       | 0         |        | 19.00  | 19.10  | 19.08   |           |         |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |



| LTE Band 71 Maximum Average Power [dBm] (GT - LC = 4.67 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 20                                                          | 1        | 0         | QPSK   | 22.48  | 22.58  | 22.54   | 25.10     | 0.3236  |
| 20                                                          | 1        | 49        |        | 22.44  | 22.51  | 22.53   |           |         |
| 20                                                          | 1        | 99        |        | 22.44  | 22.48  | 22.37   |           |         |
| 20                                                          | 50       | 0         |        | 21.36  | 21.51  | 21.51   |           |         |
| 20                                                          | 50       | 24        |        | 21.58  | 21.62  | 21.61   |           |         |
| 20                                                          | 50       | 50        |        | 21.51  | 21.60  | 21.57   |           |         |
| 20                                                          | 100      | 0         |        | 21.47  | 21.57  | 21.55   |           |         |
| 20                                                          | 1        | 0         | 16-QAM | 21.85  | 21.76  | 21.90   | 24.46     | 0.2793  |
| 20                                                          | 1        | 49        |        | 21.82  | 21.94  | 21.88   |           |         |
| 20                                                          | 1        | 99        |        | 21.73  | 21.81  | 21.76   |           |         |
| 20                                                          | 50       | 0         |        | 20.44  | 20.52  | 20.59   |           |         |
| 20                                                          | 50       | 24        |        | 20.45  | 20.67  | 20.65   |           |         |
| 20                                                          | 50       | 50        |        | 20.60  | 20.64  | 20.67   |           |         |
| 20                                                          | 100      | 0         |        | 20.46  | 20.52  | 20.54   |           |         |
| 20                                                          | 1        | 0         | 64-QAM | 20.64  | 20.54  | 20.80   | 23.32     | 0.2148  |
| 20                                                          | 1        | 49        |        | 20.58  | 20.66  | 20.57   |           |         |
| 20                                                          | 1        | 99        |        | 20.62  | 20.69  | 20.60   |           |         |
| 20                                                          | 50       | 0         |        | 19.40  | 19.52  | 19.54   |           |         |
| 20                                                          | 50       | 24        |        | 19.50  | 19.62  | 19.60   |           |         |
| 20                                                          | 50       | 50        |        | 19.66  | 19.66  | 19.64   |           |         |
| 20                                                          | 100      | 0         |        | 19.56  | 19.57  | 19.55   |           |         |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |



# FCC RADIO TEST REPORT

Report No. : FG480602B

| LTE Band 71 Maximum Average Power [dBm] (GT - LC = 4.67 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 15                                                          | 1        | 0         | QPSK   | 22.31  | 22.39  | 22.56   | 25.08     | 0.3221  |
| 15                                                          | 1        | 37        |        | 22.44  | 22.51  | 22.47   |           |         |
| 15                                                          | 1        | 74        |        | 22.28  | 22.32  | 22.26   |           |         |
| 15                                                          | 36       | 0         |        | 21.23  | 21.47  | 21.37   |           |         |
| 15                                                          | 36       | 20        |        | 21.44  | 21.51  | 21.57   |           |         |
| 15                                                          | 36       | 39        |        | 21.40  | 21.57  | 21.43   |           |         |
| 15                                                          | 75       | 0         |        | 21.38  | 21.52  | 21.55   |           |         |
| 15                                                          | 1        | 0         | 16-QAM | 21.68  | 21.64  | 21.79   | 24.41     | 0.2761  |
| 15                                                          | 1        | 37        |        | 21.79  | 21.89  | 21.83   |           |         |
| 15                                                          | 1        | 74        |        | 21.64  | 21.69  | 21.61   |           |         |
| 15                                                          | 36       | 0         |        | 20.34  | 20.43  | 20.44   |           |         |
| 15                                                          | 36       | 20        |        | 20.39  | 20.66  | 20.47   |           |         |
| 15                                                          | 36       | 39        |        | 20.54  | 20.55  | 20.65   |           |         |
| 15                                                          | 75       | 0         |        | 20.45  | 20.46  | 20.38   |           |         |
| 15                                                          | 1        | 0         | 64-QAM | 20.51  | 20.34  | 20.68   | 23.20     | 0.2089  |
| 15                                                          | 1        | 37        |        | 20.54  | 20.52  | 20.43   |           |         |
| 15                                                          | 1        | 74        |        | 20.58  | 20.59  | 20.58   |           |         |
| 15                                                          | 36       | 0         |        | 19.38  | 19.47  | 19.48   |           |         |
| 15                                                          | 36       | 20        |        | 19.32  | 19.48  | 19.40   |           |         |
| 15                                                          | 36       | 39        |        | 19.51  | 19.59  | 19.46   |           |         |
| 15                                                          | 75       | 0         |        | 19.49  | 19.47  | 19.38   |           |         |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |



| LTE Band 71 Maximum Average Power [dBm] (GT - LC = 4.67 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 10                                                          | 1        | 0         | QPSK   | 22.48  | 22.39  | 22.43   | 25.00     | 0.3162  |
| 10                                                          | 1        | 25        |        | 22.38  | 22.45  | 22.36   |           |         |
| 10                                                          | 1        | 49        |        | 22.34  | 22.45  | 22.27   |           |         |
| 10                                                          | 25       | 0         |        | 21.24  | 21.37  | 21.39   |           |         |
| 10                                                          | 25       | 12        |        | 21.46  | 21.42  | 21.45   |           |         |
| 10                                                          | 25       | 25        |        | 21.39  | 21.49  | 21.48   |           |         |
| 10                                                          | 50       | 0         |        | 21.27  | 21.52  | 21.45   |           |         |
| 10                                                          | 1        | 0         | 16-QAM | 21.83  | 21.73  | 21.71   | 24.38     | 0.2742  |
| 10                                                          | 1        | 25        |        | 21.69  | 21.86  | 21.68   |           |         |
| 10                                                          | 1        | 49        |        | 21.69  | 21.77  | 21.74   |           |         |
| 10                                                          | 25       | 0         |        | 20.24  | 20.48  | 20.51   |           |         |
| 10                                                          | 25       | 12        |        | 20.31  | 20.51  | 20.59   |           |         |
| 10                                                          | 25       | 25        |        | 20.48  | 20.54  | 20.66   |           |         |
| 10                                                          | 50       | 0         |        | 20.33  | 20.34  | 20.35   |           |         |
| 10                                                          | 1        | 0         | 64-QAM | 20.59  | 20.54  | 20.62   | 23.16     | 0.2070  |
| 10                                                          | 1        | 25        |        | 20.53  | 20.64  | 20.50   |           |         |
| 10                                                          | 1        | 49        |        | 20.53  | 20.50  | 20.55   |           |         |
| 10                                                          | 25       | 0         |        | 19.29  | 19.50  | 19.39   |           |         |
| 10                                                          | 25       | 12        |        | 19.39  | 19.44  | 19.56   |           |         |
| 10                                                          | 25       | 25        |        | 19.54  | 19.66  | 19.56   |           |         |
| 10                                                          | 50       | 0         |        | 19.45  | 19.49  | 19.47   |           |         |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |



# FCC RADIO TEST REPORT

Report No. : FG480602B

| LTE Band 71 Maximum Average Power [dBm] (GT - LC = 4.67 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 5                                                           | 1        | 0         | QPSK   | 22.37  | 22.52  | 22.40   | 25.04     | 0.3192  |
| 5                                                           | 1        | 12        |        | 22.31  | 22.46  | 22.51   |           |         |
| 5                                                           | 1        | 24        |        | 22.39  | 22.48  | 22.32   |           |         |
| 5                                                           | 12       | 0         |        | 21.25  | 21.46  | 21.45   |           |         |
| 5                                                           | 12       | 7         |        | 21.53  | 21.47  | 21.52   |           |         |
| 5                                                           | 12       | 13        |        | 21.44  | 21.58  | 21.56   |           |         |
| 5                                                           | 25       | 0         |        | 21.28  | 21.56  | 21.44   |           |         |
| 5                                                           | 1        | 0         | 16-QAM | 21.85  | 21.56  | 21.70   | 24.37     | 0.2735  |
| 5                                                           | 1        | 12        |        | 21.74  | 21.84  | 21.83   |           |         |
| 5                                                           | 1        | 24        |        | 21.56  | 21.69  | 21.61   |           |         |
| 5                                                           | 12       | 0         |        | 20.36  | 20.40  | 20.44   |           |         |
| 5                                                           | 12       | 7         |        | 20.30  | 20.55  | 20.52   |           |         |
| 5                                                           | 12       | 13        |        | 20.41  | 20.59  | 20.63   |           |         |
| 5                                                           | 25       | 0         |        | 20.43  | 20.44  | 20.35   |           |         |
| 5                                                           | 1        | 0         | 64-QAM | 20.46  | 20.40  | 20.80   | 23.32     | 0.2148  |
| 5                                                           | 1        | 12        |        | 20.50  | 20.63  | 20.54   |           |         |
| 5                                                           | 1        | 24        |        | 20.62  | 20.64  | 20.44   |           |         |
| 5                                                           | 12       | 0         |        | 19.25  | 19.46  | 19.34   |           |         |
| 5                                                           | 12       | 7         |        | 19.39  | 19.60  | 19.47   |           |         |
| 5                                                           | 12       | 13        |        | 19.56  | 19.54  | 19.60   |           |         |
| 5                                                           | 25       | 0         |        | 19.55  | 19.41  | 19.42   |           |         |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |



# FCC RADIO TEST REPORT

Report No. : FG480602B

| LTE Band 14 Maximum Average Power [dBm] (GT - LC = 6.67 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 10                                                          | 1        | 0         | QPSK   |        | 22.58  |         | 27.10     | 0.5129  |
| 10                                                          | 1        | 25        |        |        | 22.31  |         |           |         |
| 10                                                          | 1        | 49        |        |        | 22.29  |         |           |         |
| 10                                                          | 25       | 0         |        |        | 21.51  |         |           |         |
| 10                                                          | 25       | 12        |        |        | 21.60  |         |           |         |
| 10                                                          | 25       | 25        |        |        | 21.44  |         |           |         |
| 10                                                          | 50       | 0         |        |        | 21.52  |         |           |         |
| 10                                                          | 1        | 0         | 16-QAM | -      | 21.95  | -       | 26.47     | 0.4436  |
| 10                                                          | 1        | 25        |        |        | 21.79  |         |           |         |
| 10                                                          | 1        | 49        |        |        | 21.85  |         |           |         |
| 10                                                          | 25       | 0         |        |        | 20.44  |         |           |         |
| 10                                                          | 25       | 12        |        |        | 20.61  |         |           |         |
| 10                                                          | 25       | 25        |        |        | 20.44  |         |           |         |
| 10                                                          | 50       | 0         |        |        | 20.58  |         |           |         |
| 10                                                          | 1        | 0         | 64-QAM |        | 20.90  |         | 25.42     | 0.3483  |
| 10                                                          | 1        | 25        |        |        | 20.78  |         |           |         |
| 10                                                          | 1        | 49        |        |        | 20.57  |         |           |         |
| 10                                                          | 25       | 0         |        |        | 19.51  |         |           |         |
| 10                                                          | 25       | 12        |        |        | 19.61  |         |           |         |
| 10                                                          | 25       | 25        |        |        | 19.48  |         |           |         |
| 10                                                          | 50       | 0         |        |        | 19.58  |         |           |         |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |



| LTE Band 14 Maximum Average Power [dBm] (GT - LC = 6.67 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 5                                                           | 1        | 0         | QPSK   | 22.43  | 22.47  | 22.44   | 26.99     | 0.5000  |
| 5                                                           | 1        | 12        |        | 22.13  | 22.11  | 22.13   |           |         |
| 5                                                           | 1        | 24        |        | 22.09  | 22.14  | 22.20   |           |         |
| 5                                                           | 12       | 0         |        | 21.39  | 21.41  | 21.50   |           |         |
| 5                                                           | 12       | 7         |        | 21.41  | 21.52  | 21.52   |           |         |
| 5                                                           | 12       | 13        |        | 21.39  | 21.35  | 21.26   |           |         |
| 5                                                           | 25       | 0         |        | 21.47  | 21.39  | 21.47   |           |         |
| 5                                                           | 1        | 0         | 16-QAM | 21.87  | 21.88  | 21.80   | 26.40     | 0.4365  |
| 5                                                           | 1        | 12        |        | 21.75  | 21.72  | 21.62   |           |         |
| 5                                                           | 1        | 24        |        | 21.66  | 21.68  | 21.70   |           |         |
| 5                                                           | 12       | 0         |        | 20.34  | 20.24  | 20.40   |           |         |
| 5                                                           | 12       | 7         |        | 20.47  | 20.45  | 20.50   |           |         |
| 5                                                           | 12       | 13        |        | 20.28  | 20.33  | 20.38   |           |         |
| 5                                                           | 25       | 0         |        | 20.52  | 20.40  | 20.57   |           |         |
| 5                                                           | 1        | 0         | 64-QAM | 20.73  | 20.73  | 20.86   | 25.38     | 0.3451  |
| 5                                                           | 1        | 12        |        | 20.75  | 20.72  | 20.75   |           |         |
| 5                                                           | 1        | 24        |        | 20.54  | 20.39  | 20.51   |           |         |
| 5                                                           | 12       | 0         |        | 19.46  | 19.33  | 19.46   |           |         |
| 5                                                           | 12       | 7         |        | 19.53  | 19.47  | 19.44   |           |         |
| 5                                                           | 12       | 13        |        | 19.31  | 19.28  | 19.46   |           |         |
| 5                                                           | 25       | 0         |        | 19.54  | 19.45  | 19.50   |           |         |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |



| LTE Band 5B_CA Maximum Average Power [dBm] (GT - LC = 5.5 dB) |          |           |         |           |        |        |        |         |           |         |
|---------------------------------------------------------------|----------|-----------|---------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                      | PCC      |           | SCC     |           | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
|                                                               | RB Size  | RB Offset | RB Size | RB Offset |        |        |        |         |           |         |
| 10+10                                                         | 50       | 0         | 50      | 0         | QPSK   | 20.54  | 20.57  | 20.51   | 25.76     | 0.3767  |
| 10+10                                                         | 1        | 0         | 1       | 49        |        | 10.74  | 11.03  | 11.15   |           |         |
| 10+10                                                         | 1        | 49        | 1       | 0         |        | 22.41  | 22.33  | 22.34   |           |         |
| 10+10                                                         | 50       | 0         | 50      | 0         | 16-QAM | 19.58  | 19.59  | 19.59   | 25.24     | 0.3342  |
| 10+10                                                         | 1        | 0         | 1       | 49        |        | 11.28  | 11.57  | 11.79   |           |         |
| 10+10                                                         | 1        | 49        | 1       | 0         |        | 21.86  | 21.89  | 21.80   |           |         |
| 10+10                                                         | 50       | 0         | 50      | 0         | 64-QAM | 19.58  | 19.60  | 19.56   | 24.14     | 0.2594  |
| 10+10                                                         | 1        | 0         | 1       | 49        |        | 11.08  | 11.48  | 11.64   |           |         |
| 10+10                                                         | 1        | 49        | 1       | 0         |        | 20.58  | 20.79  | 20.58   |           |         |
| 10+5                                                          | 50       | 0         | 25      | 0         | QPSK   | 20.56  | 20.48  | 20.53   | 25.68     | 0.3698  |
| 10+5                                                          | 1        | 0         | 1       | 24        |        | 11.26  | 11.99  | 12.02   |           |         |
| 10+5                                                          | 1        | 49        | 1       | 0         |        | 22.33  | 22.29  | 22.27   |           |         |
| 10+5                                                          | 50       | 0         | 25      | 0         | 16-QAM | 19.58  | 19.50  | 19.51   | 25.21     | 0.3319  |
| 10+5                                                          | 1        | 0         | 1       | 24        |        | 11.82  | 12.56  | 12.49   |           |         |
| 10+5                                                          | 1        | 49        | 1       | 0         |        | 21.84  | 21.86  | 21.82   |           |         |
| 10+5                                                          | 50       | 0         | 25      | 0         | 64-QAM | 19.58  | 19.58  | 19.55   | 24.09     | 0.2564  |
| 10+5                                                          | 1        | 0         | 1       | 24        |        | 11.62  | 12.51  | 12.32   |           |         |
| 10+5                                                          | 1        | 49        | 1       | 0         |        | 20.74  | 20.59  | 20.65   |           |         |
| 5+10                                                          | 25       | 0         | 50      | 0         | QPSK   | 20.52  | 20.57  | 20.49   | 25.81     | 0.3811  |
| 5+10                                                          | 1        | 0         | 1       | 49        |        | 11.23  | 11.97  | 11.98   |           |         |
| 5+10                                                          | 1        | 24        | 1       | 0         |        | 22.46  | 22.41  | 22.45   |           |         |
| 5+10                                                          | 25       | 0         | 50      | 0         | 16-QAM | 19.54  | 19.54  | 19.55   | 25.38     | 0.3451  |
| 5+10                                                          | 1        | 0         | 1       | 49        |        | 11.71  | 12.48  | 12.60   |           |         |
| 5+10                                                          | 1        | 24        | 1       | 0         |        | 22.03  | 21.87  | 21.81   |           |         |
| 5+10                                                          | 25       | 0         | 50      | 0         | 64-QAM | 19.60  | 19.57  | 19.54   | 24.14     | 0.2594  |
| 5+10                                                          | 1        | 0         | 1       | 49        |        | 11.58  | 12.41  | 12.30   |           |         |
| 5+10                                                          | 1        | 24        | 1       | 0         |        | 20.79  | 20.69  | 20.68   |           |         |
| Limit                                                         | ERP < 7W |           |         |           |        | Result |        |         | Pass      |         |



# FCC RADIO TEST REPORT

Report No. : FG480602B

| LTE Band 5B_CA Maximum Average Power [dBm] (GT - LC = 5.5 dB) |          |           |         |           |        |        |        |         |           |         |
|---------------------------------------------------------------|----------|-----------|---------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                      | PCC      |           | SCC     |           | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
|                                                               | RB Size  | RB Offset | RB Size | RB Offset |        |        |        |         |           |         |
| 5+3                                                           | 25       | 0         | 15      | 0         | QPSK   | 22.51  | 22.18  | 21.72   | 25.86     | 0.3855  |
| 5+3                                                           | 1        | 0         | 1       | 14        |        | 10.89  | 12.00  | 11.23   |           |         |
| 5+3                                                           | 1        | 24        | 1       | 0         |        | 22.47  | 22.28  | 21.88   |           |         |
| 5+3                                                           | 25       | 0         | 15      | 0         | 16-QAM | 21.94  | 21.46  | 20.11   | 26.24     | 0.4207  |
| 5+3                                                           | 1        | 0         | 1       | 14        |        | 11.39  | 12.38  | 11.70   |           |         |
| 5+3                                                           | 1        | 24        | 1       | 0         |        | 22.89  | 21.74  | 21.21   |           |         |
| 5+3                                                           | 25       | 0         | 15      | 0         | 64-QAM | 21.02  | 20.39  | 20.23   | 24.97     | 0.3141  |
| 5+3                                                           | 1        | 0         | 1       | 14        |        | 11.29  | 12.43  | 11.61   |           |         |
| 5+3                                                           | 1        | 24        | 1       | 0         |        | 21.62  | 20.69  | 20.23   |           |         |
| 3+5                                                           | 15       | 0         | 25      | 0         | QPSK   | 22.38  | 22.39  | 22.21   | 25.76     | 0.3767  |
| 3+5                                                           | 1        | 0         | 1       | 24        |        | 10.86  | 11.94  | 11.16   |           |         |
| 3+5                                                           | 1        | 14        | 1       | 0         |        | 22.41  | 22.38  | 22.20   |           |         |
| 3+5                                                           | 15       | 0         | 25      | 0         | 16-QAM | 21.73  | 20.21  | 21.51   | 25.96     | 0.3945  |
| 3+5                                                           | 1        | 0         | 1       | 24        |        | 11.37  | 12.49  | 11.73   |           |         |
| 3+5                                                           | 1        | 14        | 1       | 0         |        | 22.61  | 21.91  | 21.62   |           |         |
| 3+5                                                           | 15       | 0         | 25      | 0         | 64-QAM | 20.70  | 20.58  | 20.51   | 24.94     | 0.3119  |
| 3+5                                                           | 1        | 0         | 1       | 24        |        | 11.30  | 12.37  | 11.43   |           |         |
| 3+5                                                           | 1        | 14        | 1       | 0         |        | 21.59  | 20.46  | 20.61   |           |         |
| Limit                                                         | ERP < 7W |           |         |           |        | Result |        |         | Pass      |         |



| LTE Band 7C_CA Maximum Average Power [dBm] (GT - LC = 6.73 dB) |           |           |         |           |        |        |        |         |            |          |
|----------------------------------------------------------------|-----------|-----------|---------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                       | PCC       |           | SCC     |           | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
|                                                                | RB Size   | RB Offset | RB Size | RB Offset |        |        |        |         |            |          |
| 20+20                                                          | 100       | 0         | 100     | 0         | QPSK   | 20.00  | 17.98  | 19.80   | 28.75      | 0.7499   |
| 20+20                                                          | 1         | 0         | 1       | 99        |        | 13.17  | 13.23  | 12.99   |            |          |
| 20+20                                                          | 1         | 99        | 1       | 0         |        | 22.02  | 19.62  | 21.59   |            |          |
| 20+20                                                          | 100       | 0         | 100     | 0         | 16-QAM | 19.05  | 19.02  | 18.80   | 28.14      | 0.6516   |
| 20+20                                                          | 1         | 0         | 1       | 99        |        | 13.68  | 13.86  | 13.67   |            |          |
| 20+20                                                          | 1         | 99        | 1       | 0         |        | 21.41  | 18.93  | 21.04   |            |          |
| 20+20                                                          | 100       | 0         | 100     | 0         | 64-QAM | 18.45  | 18.26  | 17.56   | 26.44      | 0.4406   |
| 20+20                                                          | 1         | 0         | 1       | 99        |        | 13.48  | 13.53  | 13.26   |            |          |
| 20+20                                                          | 1         | 99        | 1       | 0         |        | 19.71  | 14.77  | 18.05   |            |          |
| 20+15                                                          | 100       | 0         | 75      | 0         | QPSK   | 21.46  | 17.01  | 20.49   | 28.73      | 0.7464   |
| 20+15                                                          | 1         | 0         | 1       | 74        |        | 13.27  | 13.25  | 13.11   |            |          |
| 20+15                                                          | 1         | 99        | 1       | 0         |        | 22.00  | 19.75  | 21.60   |            |          |
| 20+15                                                          | 100       | 0         | 75      | 0         | 16-QAM | 20.30  | 20.23  | 19.57   | 29.08      | 0.8091   |
| 20+15                                                          | 1         | 0         | 1       | 74        |        | 13.85  | 13.82  | 13.62   |            |          |
| 20+15                                                          | 1         | 99        | 1       | 0         |        | 22.35  | 19.27  | 21.93   |            |          |
| 20+15                                                          | 100       | 0         | 75      | 0         | 64-QAM | 18.53  | 18.21  | 17.53   | 26.55      | 0.4519   |
| 20+15                                                          | 1         | 0         | 1       | 74        |        | 13.59  | 13.74  | 13.55   |            |          |
| 20+15                                                          | 1         | 99        | 1       | 0         |        | 19.82  | 15.12  | 18.17   |            |          |
| 15+20                                                          | 75        | 0         | 100     | 0         | QPSK   | 20.02  | 20.05  | 19.81   | 28.78      | 0.7551   |
| 15+20                                                          | 1         | 0         | 1       | 99        |        | 13.27  | 13.30  | 12.83   |            |          |
| 15+20                                                          | 1         | 74        | 1       | 0         |        | 22.05  | 21.81  | 21.73   |            |          |
| 15+20                                                          | 75        | 0         | 100     | 0         | 16-QAM | 19.09  | 18.98  | 18.84   | 28.26      | 0.6699   |
| 15+20                                                          | 1         | 0         | 1       | 99        |        | 13.80  | 13.85  | 13.60   |            |          |
| 15+20                                                          | 1         | 74        | 1       | 0         |        | 21.53  | 21.32  | 20.96   |            |          |
| 15+20                                                          | 75        | 0         | 100     | 0         | 64-QAM | 18.34  | 18.62  | 17.55   | 26.62      | 0.4592   |
| 15+20                                                          | 1         | 0         | 1       | 99        |        | 13.57  | 13.52  | 13.64   |            |          |
| 15+20                                                          | 1         | 74        | 1       | 0         |        | 19.08  | 19.89  | 18.13   |            |          |
| Limit                                                          | EIRP < 2W |           |         |           |        | Result |        |         | Pass       |          |



# FCC RADIO TEST REPORT

Report No. : FG480602B

| LTE Band 7C_CA Maximum Average Power [dBm] (GT - LC = 6.73 dB) |           |           |         |           |        |        |        |         |            |          |
|----------------------------------------------------------------|-----------|-----------|---------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                       | PCC       |           | SCC     |           | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
|                                                                | RB Size   | RB Offset | RB Size | RB Offset |        |        |        |         |            |          |
| 20+10                                                          | 100       | 0         | 50      | 0         | QPSK   | 20.01  | 17.39  | 19.67   | 28.71      | 0.7430   |
| 20+10                                                          | 1         | 0         | 1       | 49        |        | 13.29  | 13.37  | 13.11   |            |          |
| 20+10                                                          | 1         | 99        | 1       | 0         |        | 21.98  | 19.24  | 21.52   |            |          |
| 20+10                                                          | 100       | 0         | 50      | 0         | 16-QAM | 18.99  | 18.91  | 18.68   | 28.19      | 0.6592   |
| 20+10                                                          | 1         | 0         | 1       | 49        |        | 13.81  | 13.99  | 13.63   |            |          |
| 20+10                                                          | 1         | 99        | 1       | 0         |        | 21.46  | 18.78  | 21.00   |            |          |
| 20+10                                                          | 100       | 0         | 50      | 0         | 64-QAM | 18.35  | 17.79  | 17.71   | 25.51      | 0.3556   |
| 20+10                                                          | 1         | 0         | 1       | 49        |        | 13.65  | 13.77  | 13.48   |            |          |
| 20+10                                                          | 1         | 99        | 1       | 0         |        | 18.56  | 18.50  | 18.78   |            |          |
| 10+20                                                          | 50        | 0         | 100     | 0         | QPSK   | 20.03  | 19.97  | 19.67   | 28.78      | 0.7551   |
| 10+20                                                          | 1         | 0         | 1       | 99        |        | 13.38  | 13.34  | 13.13   |            |          |
| 10+20                                                          | 1         | 49        | 1       | 0         |        | 22.05  | 21.86  | 21.69   |            |          |
| 10+20                                                          | 50        | 0         | 100     | 0         | 16-QAM | 19.07  | 19.00  | 18.76   | 28.20      | 0.6607   |
| 10+20                                                          | 1         | 0         | 1       | 99        |        | 13.79  | 13.95  | 13.69   |            |          |
| 10+20                                                          | 1         | 49        | 1       | 0         |        | 21.47  | 21.26  | 21.07   |            |          |
| 10+20                                                          | 50        | 0         | 100     | 0         | 64-QAM | 18.00  | 18.82  | 17.55   | 26.60      | 0.4571   |
| 10+20                                                          | 1         | 0         | 1       | 99        |        | 13.64  | 13.64  | 13.40   |            |          |
| 10+20                                                          | 1         | 49        | 1       | 0         |        | 18.74  | 19.87  | 18.39   |            |          |
| 15+15                                                          | 75        | 0         | 75      | 0         | QPSK   | 20.03  | 19.38  | 19.71   | 28.79      | 0.7568   |
| 15+15                                                          | 1         | 0         | 1       | 74        |        | 13.38  | 13.28  | 13.11   |            |          |
| 15+15                                                          | 1         | 74        | 1       | 0         |        | 22.06  | 21.79  | 21.58   |            |          |
| 15+15                                                          | 75        | 0         | 75      | 0         | 16-QAM | 19.13  | 19.04  | 18.78   | 28.20      | 0.6607   |
| 15+15                                                          | 1         | 0         | 1       | 74        |        | 13.99  | 13.93  | 13.64   |            |          |
| 15+15                                                          | 1         | 74        | 1       | 0         |        | 21.47  | 21.14  | 21.07   |            |          |
| 15+15                                                          | 75        | 0         | 75      | 0         | 64-QAM | 18.23  | 18.31  | 17.60   | 26.12      | 0.4093   |
| 15+15                                                          | 1         | 0         | 1       | 74        |        | 13.68  | 13.72  | 13.52   |            |          |
| 15+15                                                          | 1         | 74        | 1       | 0         |        | 19.00  | 19.39  | 18.59   |            |          |
| Limit                                                          | EIRP < 2W |           |         |           |        | Result |        |         | Pass       |          |



# FCC RADIO TEST REPORT

Report No. : FG480602B

| LTE Band 7C_CA Maximum Average Power [dBm] (GT - LC = 6.73 dB) |           |           |         |           |        |        |        |         |            |          |
|----------------------------------------------------------------|-----------|-----------|---------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                       | PCC       |           | SCC     |           | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
|                                                                | RB Size   | RB Offset | RB Size | RB Offset |        |        |        |         |            |          |
| 15+10                                                          | 75        | 0         | 50      | 0         | QPSK   | 20.11  | 19.02  | 19.76   | 28.73      | 0.7464   |
| 15+10                                                          | 1         | 0         | 1       | 49        |        | 13.47  | 13.44  | 13.16   |            |          |
| 15+10                                                          | 1         | 74        | 1       | 0         |        | 22.00  | 19.55  | 21.58   |            |          |
| 15+10                                                          | 75        | 0         | 50      | 0         | 16-QAM | 19.14  | 19.02  | 18.73   | 28.14      | 0.6516   |
| 15+10                                                          | 1         | 0         | 1       | 49        |        | 13.99  | 13.99  | 13.76   |            |          |
| 15+10                                                          | 1         | 74        | 1       | 0         |        | 21.41  | 18.97  | 20.96   |            |          |
| 15+10                                                          | 75        | 0         | 50      | 0         | 64-QAM | 18.38  | 18.16  | 17.96   | 26.34      | 0.4305   |
| 15+10                                                          | 1         | 0         | 1       | 49        |        | 13.99  | 13.77  | 13.52   |            |          |
| 15+10                                                          | 1         | 74        | 1       | 0         |        | 19.61  | 17.36  | 18.97   |            |          |
| Limit                                                          | EIRP < 2W |           |         |           |        | Result |        |         | Pass       |          |



## Appendix B. Test Results of Radiated Test

### B1. Summary of each worse mode

| Mode | Part     | Band       | Ch | Freq (MHz) | Level (dBm) | Det | Ant Factor (dB) | AmplCbl (dB) | Filter (dB) | EIRPCF (dB) | Reading (dBuV) | Limit (dBm) | Margin (dB) | Pol | Ant                                                    |
|------|----------|------------|----|------------|-------------|-----|-----------------|--------------|-------------|-------------|----------------|-------------|-------------|-----|--------------------------------------------------------|
| 2    | Part 22H | LTE B5     | M  | 3337       | -58.19      | RMS | 29.57           | -25.04       | 0.25        | -95.23      | 32.26          | -13.00      | -45.19      | V   | External sharkfin antenna, North America 5G L1/L5 + XM |
| 3    | Part 22H | LTE CA B5B | M  | 3344       | -58.25      | RMS | 29.59           | -25.03       | 0.24        | -95.23      | 32.18          | -13.00      | -45.25      | H   | External sharkfin antenna, North America 5G L1/L5 + XM |
| 2    | Part 24E | LTE B2     | M  | 7484       | -48.65      | RMS | 36.23           | -20.78       | 0.60        | -95.23      | 30.53          | -13.00      | -35.65      | H   | External sharkfin antenna, North America 5G L1/L5 + XM |
| 1    | Part 27M | LTE B7     | L  | 10004      | -45.81      | RMS | 38.02           | -18.09       | 0.58        | -95.23      | 28.91          | -25.00      | -20.81      | H   | External Front Fender Antenna                          |
| 2    | Part 27M | LTE CA B7C | L  | 10076      | -45.59      | RMS | 38.20           | -18.06       | 0.58        | -95.23      | 28.92          | -25.00      | -20.59      | H   | External Front Fender Antenna                          |
| 1    | Part 27N | LTE B71    | H  | 2773       | -59.18      | RMS | 28.50           | -25.96       | 0.24        | -95.23      | 33.27          | -13.00      | -46.18      | H   | External Front Fender Antenna                          |
| 1    | Part 27H | LTE B12    | H  | 2845       | -59.40      | RMS | 28.60           | -25.86       | 0.25        | -95.23      | 32.84          | -13.00      | -46.40      | V   | External Front Fender Antenna                          |
| 1    | Part 27F | LTE B13    | H  | 1568       | -56.30      | RMS | 25.40           | -28.68       | 0.44        | -95.23      | 41.77          | -42.15      | -14.15      | H   | External Front Fender Antenna                          |
| 1    | Part 90R | LTE B14    | M  | 1584       | -51.47      | RMS | 25.54           | -28.62       | 0.42        | -95.23      | 46.42          | -42.15      | -9.32       | V   | External Front Fender Antenna                          |

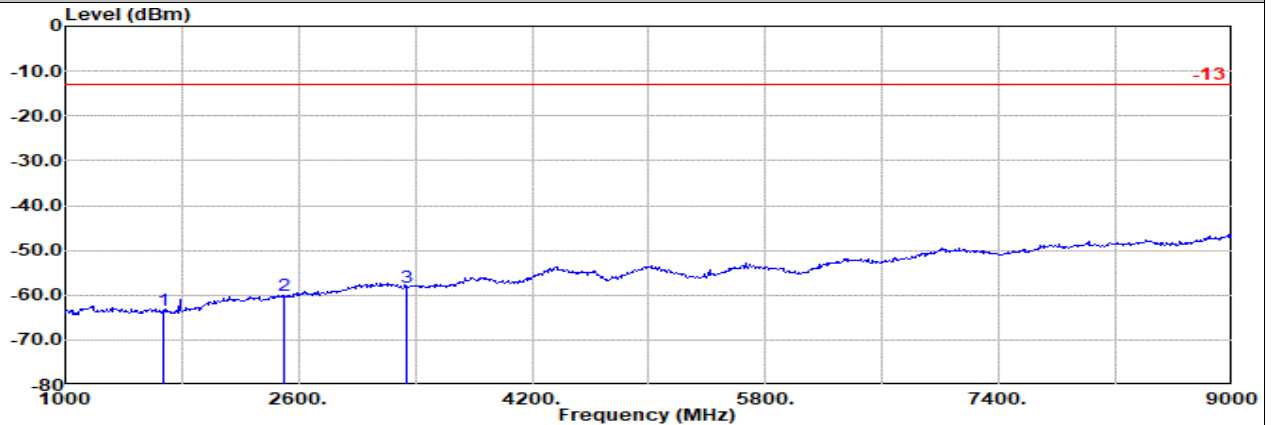


External sharkfin antenna, North America 5G L1/L5 + XM

Part 22H Mode 2

LTE B5 5M Ch20525 1RB0 QPSK

M

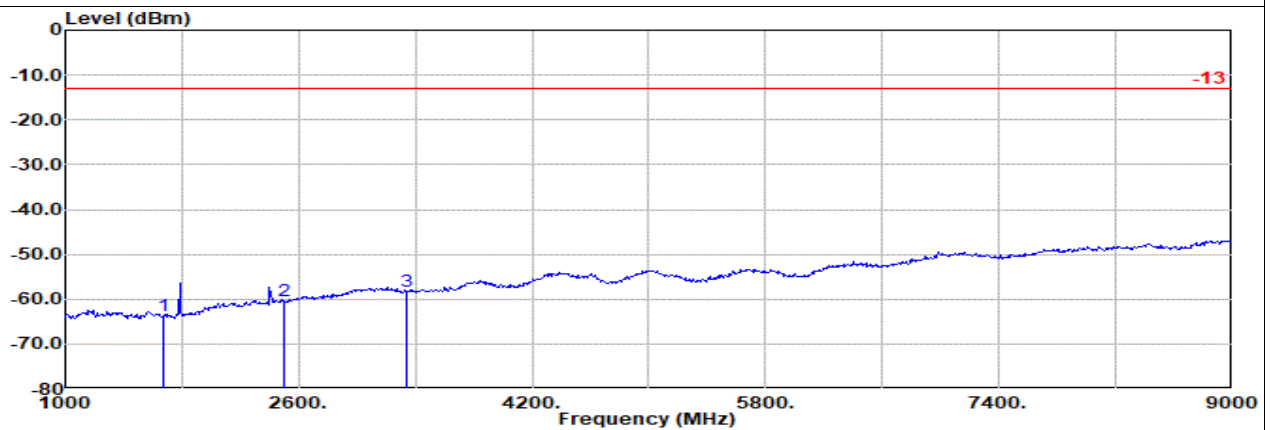


Site : 03CH11-HY

Condition: -13 3m 9120D\_02038\_240729 Horizontal

: LTE Band 5 5M Ch20525 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Amp\Cb |        | Filter | EIRPCF |       | Readin | Limit  | Margin     | Pol |
|---|---------|--------|----------|------------|--------|--------|--------|-------|--------|--------|------------|-----|
|   |         |        |          | Factor     | 1      |        |        |       | g      |        |            |     |
|   | MHz     | dBm    |          |            | dB/m   | dB     | dB     | dB    | dBuV   | dBm    | dB         |     |
| 1 | 1669.00 | -63.39 | RMS      | 25.28      | -28.36 | 0.33   | -95.23 | 34.59 | -13.00 | -50.39 | Horizontal |     |
| 2 | 2503.00 | -60.17 | RMS      | 27.80      | -26.33 | 0.21   | -95.23 | 33.38 | -13.00 | -47.17 | Horizontal |     |
| 3 | 3337.00 | -58.38 | RMS      | 29.57      | -25.04 | 0.25   | -95.23 | 32.07 | -13.00 | -45.38 | Horizontal |     |



Site : 03CH11-HY

Condition: -13 3m 9120D\_02038\_240729 Vertical

: LTE Band 5 5M Ch20525 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Amp\Cb |        | Filter | EIRPCF |       | Readin | Limit  | Margin   | Pol |
|---|---------|--------|----------|------------|--------|--------|--------|-------|--------|--------|----------|-----|
|   |         |        |          | Factor     | 1      |        |        |       | g      |        |          |     |
|   | MHz     | dBm    |          |            | dB/m   | dB     | dB     | dB    | dBuV   | dBm    | dB       |     |
| 1 | 1669.00 | -63.62 | RMS      | 25.28      | -28.36 | 0.33   | -95.23 | 34.36 | -13.00 | -50.62 | Vertical |     |
| 2 | 2503.00 | -60.31 | RMS      | 27.80      | -26.33 | 0.21   | -95.23 | 33.24 | -13.00 | -47.31 | Vertical |     |
| 3 | 3337.00 | -58.19 | RMS      | 29.57      | -25.04 | 0.25   | -95.23 | 32.26 | -13.00 | -45.19 | Vertical |     |

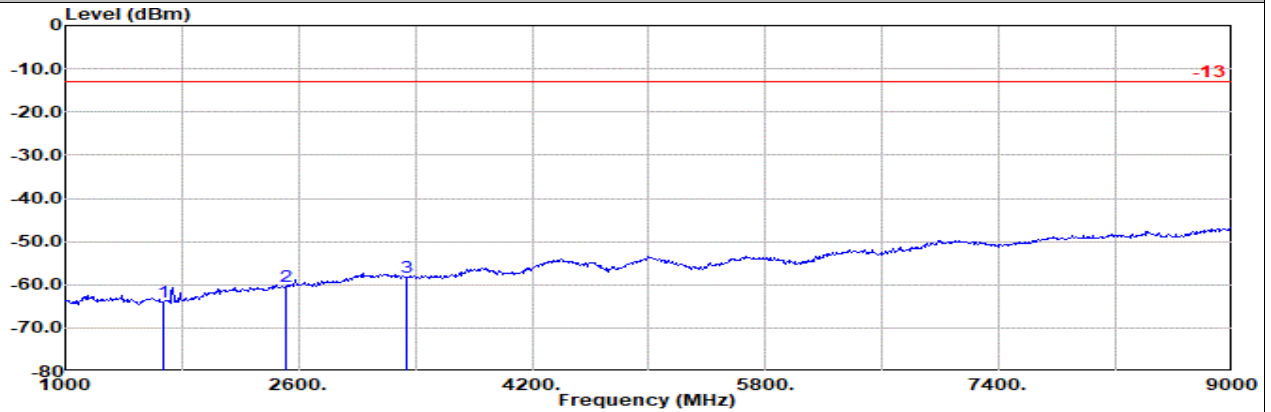


External sharkfin antenna, North America 5G L1/L5 + XM

## Part 22H Mode 3

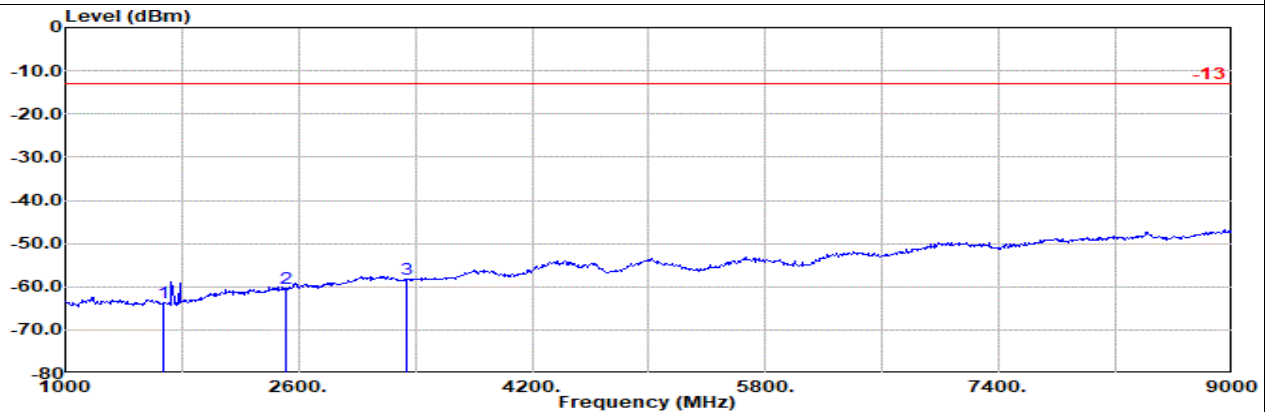
LTE CA B5B 10M + 10M Ch20476 1RB49 QPSK + Ch20575 1RB0 QPSK

M



Site : 03CH11-HY  
Condition: -13 3m 9120D\_02038\_240729 Horizontal  
: LTE Band 5 10M Ch20476 1RB49 QPSK  
: LTE Band 5 10M Ch20575 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Readin g | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|--------|----------|--------|----------|--------|--------|------------|
|   | MHz     | dBm    |          |            |        | dB/m     | dB     | dB       | dB     | dB     |            |
| 1 | 1672.02 | -63.86 | RMS      | 25.28      | -28.35 | 0.33     | -95.23 | 34.11    | -13.00 | -50.86 | Horizontal |
| 2 | 2508.03 | -60.44 | RMS      | 27.80      | -26.32 | 0.21     | -95.23 | 33.10    | -13.00 | -47.44 | Horizontal |
| 3 | 3344.04 | -58.25 | RMS      | 29.59      | -25.03 | 0.24     | -95.23 | 32.18    | -13.00 | -45.25 | Horizontal |



Site : 03CH11-HY  
Condition: -13 3m 9120D\_02038\_240729 Vertical  
: LTE Band 5 10M Ch20476 1RB49 QPSK  
: LTE Band 5 10M Ch20575 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Readin g | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|--------|----------|--------|----------|--------|--------|----------|
|   | MHz     | dBm    |          |            |        | dB/m     | dB     | dB       | dB     | dB     |          |
| 1 | 1672.02 | -63.56 | RMS      | 25.28      | -28.35 | 0.33     | -95.23 | 34.41    | -13.00 | -50.56 | Vertical |
| 2 | 2508.03 | -60.43 | RMS      | 27.80      | -26.32 | 0.21     | -95.23 | 33.11    | -13.00 | -47.43 | Vertical |
| 3 | 3344.04 | -58.31 | RMS      | 29.59      | -25.03 | 0.24     | -95.23 | 32.12    | -13.00 | -45.31 | Vertical |

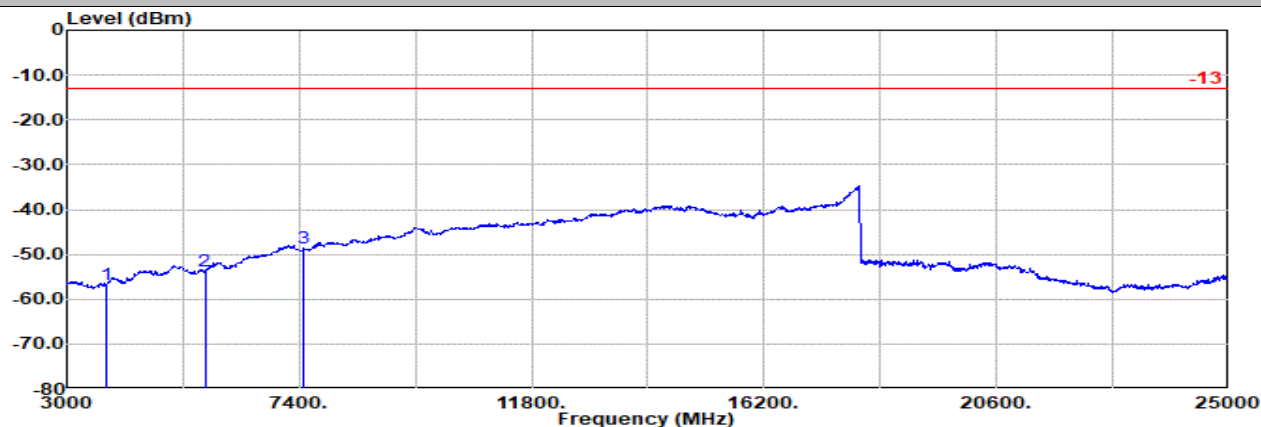


External sharkfin antenna, North America 5G L1/L5 + XM

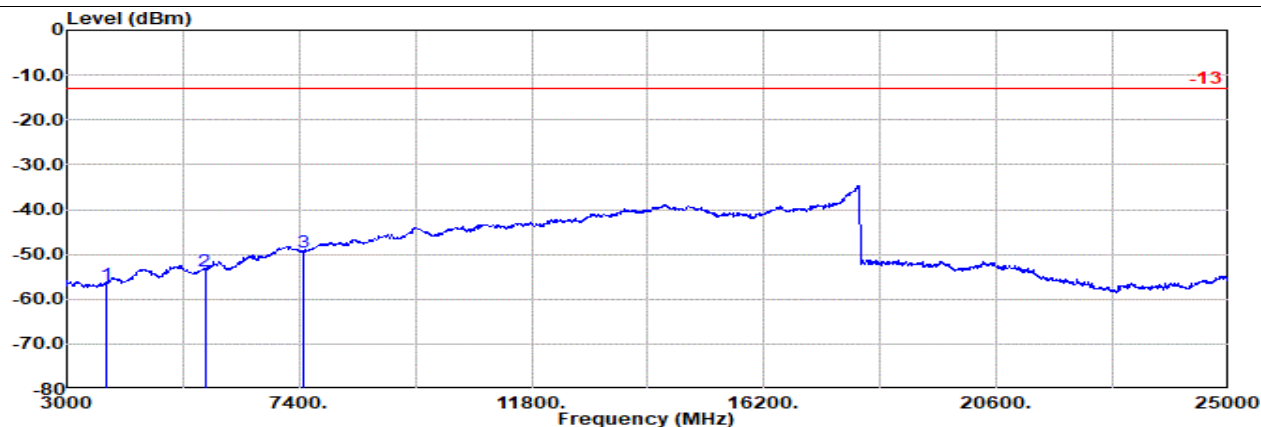
Part 24E Mode 2

LTE B2 20M Ch18900 1RB0 QPSK

M



|   | Freq    | Level  | Detector | Ant Amp\Cb Filter |        |        |        | Readin | Limit  | Margin | Pol        |
|---|---------|--------|----------|-------------------|--------|--------|--------|--------|--------|--------|------------|
|   |         |        |          | Factor            | 1      | EIRPCF |        |        |        |        |            |
|   | MHz     | dBm    |          | dB/m              | dB     | dB     | dB     | dBuV   | dBm    | dB     |            |
| 1 | 3742.00 | -56.80 | RMS      | 29.95             | -24.31 | 0.71   | -95.23 | 32.08  | -13.00 | -43.80 | Horizontal |
| 2 | 5613.00 | -53.87 | RMS      | 32.78             | -22.11 | 0.49   | -95.23 | 30.20  | -13.00 | -40.87 | Horizontal |
| 3 | 7484.00 | -48.65 | RMS      | 36.23             | -20.78 | 0.60   | -95.23 | 30.53  | -13.00 | -35.65 | Horizontal |



|   | Freq    | Level  | Detector | Ant Amp\Cb Filter |        |        |        | Readin | Limit  | Margin | Pol      |
|---|---------|--------|----------|-------------------|--------|--------|--------|--------|--------|--------|----------|
|   |         |        |          | Factor            | 1      | EIRPCF |        |        |        |        |          |
|   | MHz     | dBm    |          | dB/m              | dB     | dB     | dB     | dBuV   | dBm    | dB     |          |
| 1 | 3742.00 | -56.77 | RMS      | 29.95             | -24.31 | 0.71   | -95.23 | 32.11  | -13.00 | -43.77 | Vertical |
| 2 | 5613.00 | -53.72 | RMS      | 32.78             | -22.11 | 0.49   | -95.23 | 30.35  | -13.00 | -40.72 | Vertical |
| 3 | 7484.00 | -49.42 | RMS      | 36.23             | -20.78 | 0.60   | -95.23 | 29.76  | -13.00 | -36.42 | Vertical |

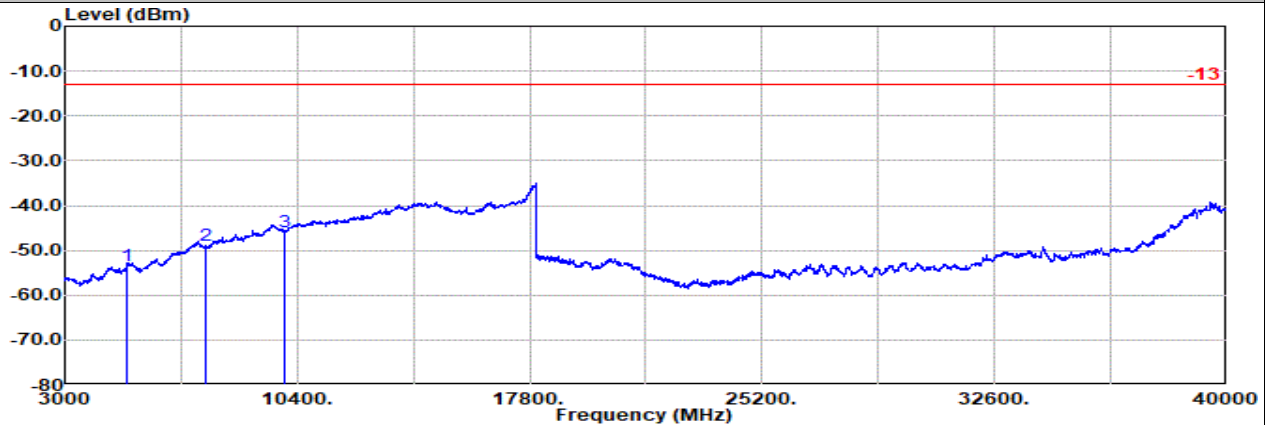


## External Front Fender Antenna

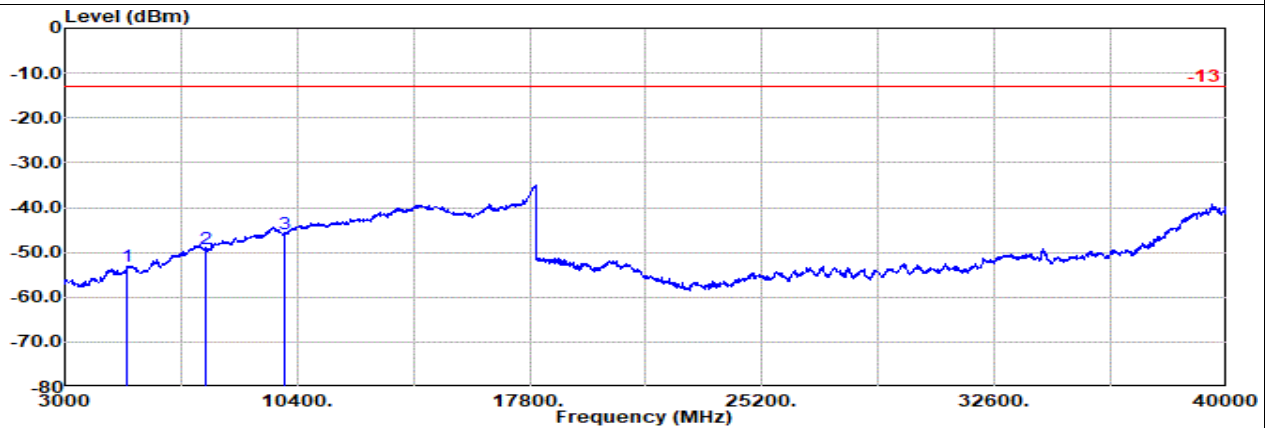
## Part 27M Mode 1

## LTE B7 20M Ch20850 1RB0 QPSK

## L



|   | Freq     | Level  | Detector | Ant Amp\Cb Filter |        |        |        | Readin | Limit  | Margin | Pol        |
|---|----------|--------|----------|-------------------|--------|--------|--------|--------|--------|--------|------------|
|   |          |        |          | Factor            | 1      | EIRPCF |        |        |        |        |            |
|   | MHz      | dBm    |          | dB/m              | dB     | dB     | dB     | dBuV   | dBm    | dB     |            |
| 1 | 5002.00  | -53.32 | RMS      | 33.29             | -22.64 | 0.50   | -95.23 | 30.76  | -25.00 | -28.32 | Horizontal |
| 2 | 7503.00  | -48.97 | RMS      | 36.19             | -20.74 | 0.59   | -95.23 | 30.22  | -25.00 | -23.97 | Horizontal |
| 3 | 10004.00 | -45.81 | RMS      | 38.02             | -18.09 | 0.58   | -95.23 | 28.91  | -25.00 | -20.81 | Horizontal |



|   | Freq     | Level  | Detector | Ant Amp\Cb Filter |        |        |        | Readin | Limit  | Margin | Pol      |
|---|----------|--------|----------|-------------------|--------|--------|--------|--------|--------|--------|----------|
|   |          |        |          | Factor            | 1      | EIRPCF |        |        |        |        |          |
|   | MHz      | dBm    |          | dB/m              | dB     | dB     | dB     | dBuV   | dBm    | dB     |          |
| 1 | 5002.00  | -53.27 | RMS      | 33.29             | -22.64 | 0.50   | -95.23 | 30.81  | -25.00 | -28.27 | Vertical |
| 2 | 7503.00  | -49.09 | RMS      | 36.19             | -20.74 | 0.59   | -95.23 | 30.10  | -25.00 | -24.09 | Vertical |
| 3 | 10004.00 | -45.86 | RMS      | 38.02             | -18.09 | 0.58   | -95.23 | 28.86  | -25.00 | -20.86 | Vertical |

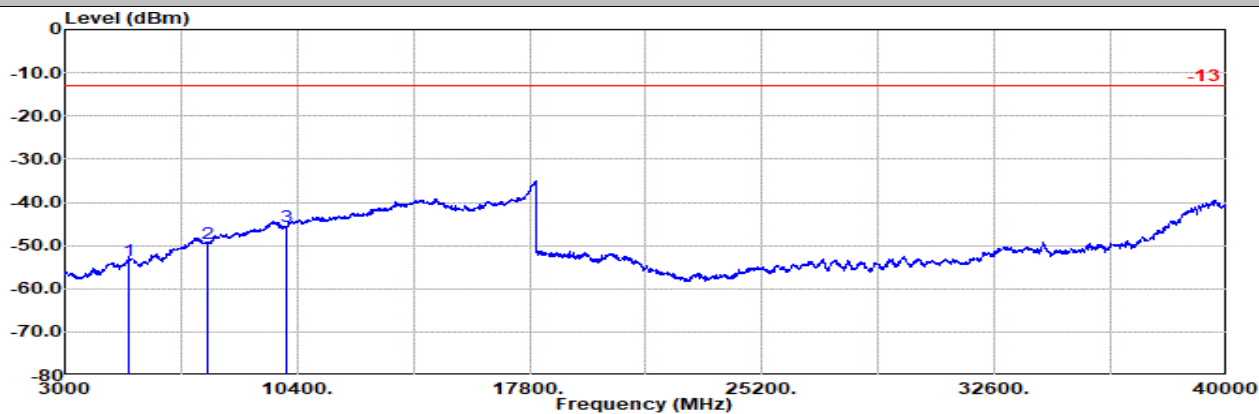


## External Front Fender Antenna

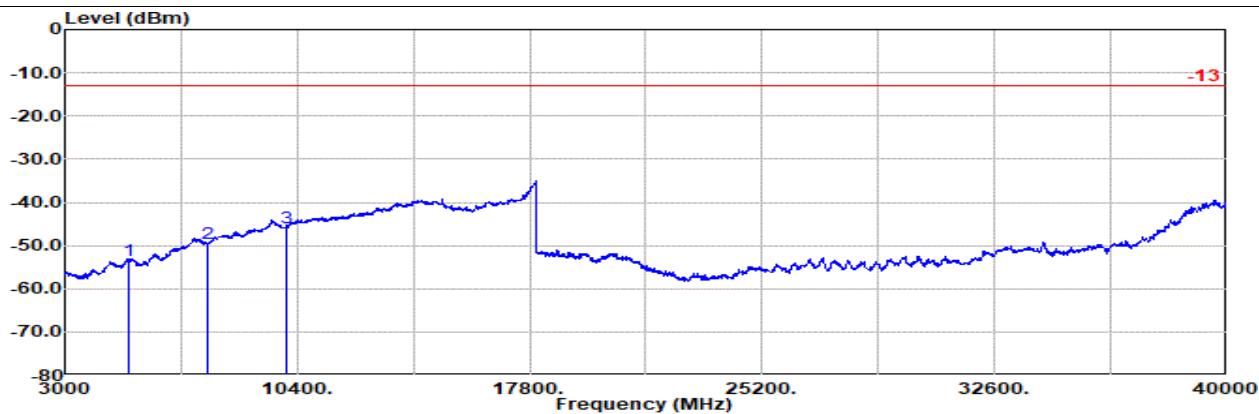
## Part 27M Mode 2

LTE CA B7C 20M + 20M Ch20850 1RB99 QPSK + Ch21048 1RB0 QPSK

L



|   | Freq<br>MHz | Level<br>dBm | Detector | Ant Amp\Cb Filter |        |        |        | Readin<br>g | Limit  | Margin | Pol        |
|---|-------------|--------------|----------|-------------------|--------|--------|--------|-------------|--------|--------|------------|
|   |             |              |          | Factor            | 1      | EIRPCF |        |             |        |        |            |
|   |             |              |          |                   |        |        |        |             |        |        |            |
| 1 | 5038.00     | -53.32       | RMS      | 33.07             | -22.60 | 0.50   | -95.23 | 30.94       | -25.00 | -28.32 | Horizontal |
| 2 | 7557.00     | -49.62       | RMS      | 36.01             | -20.65 | 0.56   | -95.23 | 29.69       | -25.00 | -24.62 | Horizontal |
| 3 | 10076.00    | -45.59       | RMS      | 38.20             | -18.06 | 0.58   | -95.23 | 28.92       | -25.00 | -20.59 | Horizontal |



|   | Freq<br>MHz | Level<br>dBm | Detector | Ant Amp\Cb Filter |        |        |        | Readin<br>g | Limit  | Margin | Pol      |
|---|-------------|--------------|----------|-------------------|--------|--------|--------|-------------|--------|--------|----------|
|   |             |              |          | Factor            | 1      | EIRPCF |        |             |        |        |          |
|   |             |              |          |                   |        |        |        |             |        |        |          |
| 1 | 5038.00     | -53.50       | RMS      | 33.07             | -22.60 | 0.50   | -95.23 | 30.76       | -25.00 | -28.50 | Vertical |
| 2 | 7557.00     | -49.38       | RMS      | 36.01             | -20.65 | 0.56   | -95.23 | 29.93       | -25.00 | -24.38 | Vertical |
| 3 | 10076.00    | -45.78       | RMS      | 38.20             | -18.06 | 0.58   | -95.23 | 28.73       | -25.00 | -20.78 | Vertical |

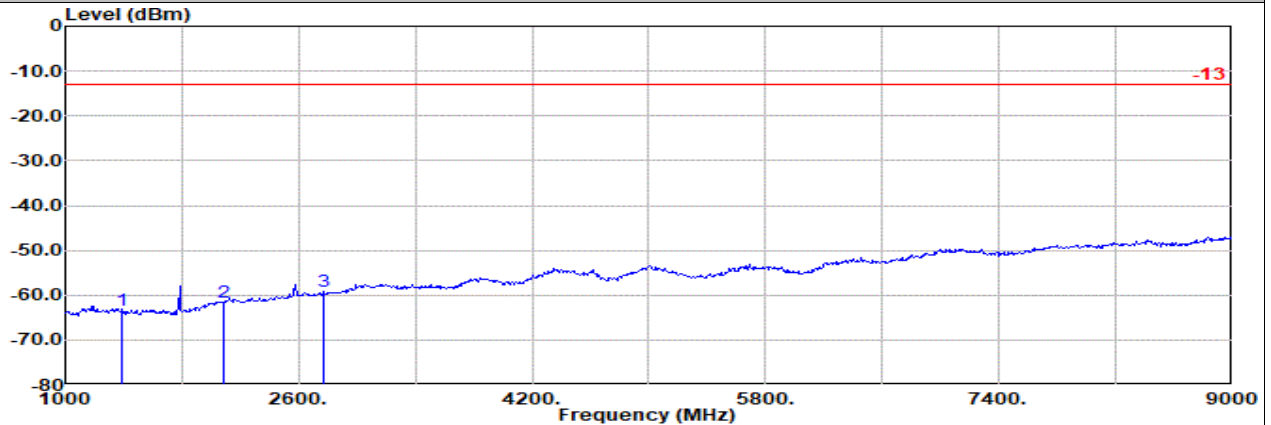


## External Front Fender Antenna

## Part 27N Mode 1

## LTE B71 5M Ch133447 1RB0 QPSK

## H

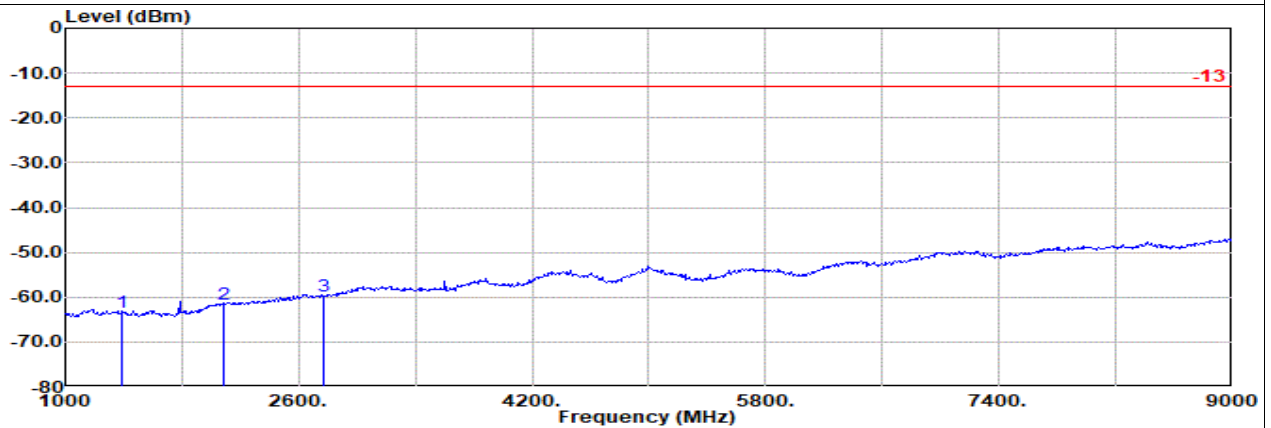


Site : 03CH11-HY

Condition: -13 3m 9120D\_02038\_240729 Horizontal

: LTE Band 71 5M Ch133447 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Readin g | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|--------|----------|--------|----------|--------|--------|------------|
|   | MHz     | dBm    |          |            |        | dB/m     | dB     | dB       | dB     | dB     |            |
| 1 | 1387.00 | -63.45 | RMS      | 25.97      | -29.67 | 0.68     | -95.23 | 34.80    | -13.00 | -50.45 | Horizontal |
| 2 | 2080.00 | -61.47 | RMS      | 27.40      | -26.87 | 0.12     | -95.23 | 33.11    | -13.00 | -48.47 | Horizontal |
| 3 | 2773.00 | -59.18 | RMS      | 28.50      | -25.96 | 0.24     | -95.23 | 33.27    | -13.00 | -46.18 | Horizontal |



Site : 03CH11-HY

Condition: -13 3m 9120D\_02038\_240729 Vertical

: LTE Band 71 5M Ch133447 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Readin g | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|--------|----------|--------|----------|--------|--------|----------|
|   | MHz     | dBm    |          |            |        | dB/m     | dB     | dB       | dB     | dB     |          |
| 1 | 1387.00 | -63.39 | RMS      | 25.97      | -29.67 | 0.68     | -95.23 | 34.86    | -13.00 | -50.39 | Vertical |
| 2 | 2080.00 | -61.52 | RMS      | 27.40      | -26.87 | 0.12     | -95.23 | 33.06    | -13.00 | -48.52 | Vertical |
| 3 | 2773.00 | -59.63 | RMS      | 28.50      | -25.96 | 0.24     | -95.23 | 32.82    | -13.00 | -46.63 | Vertical |

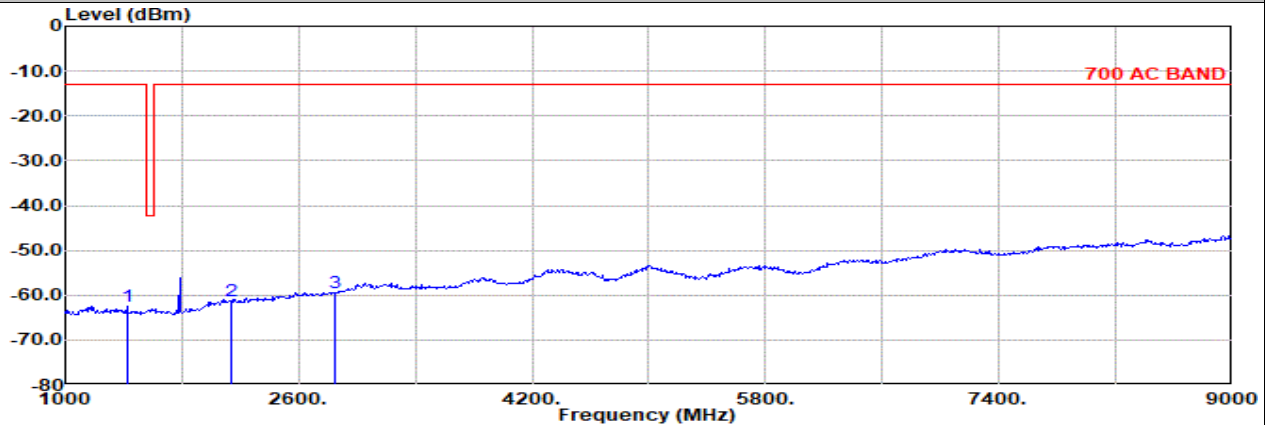


## External Front Fender Antenna

## Part 27H Mode 1

## LTE B12 5M Ch23155 1RB0 QPSK

## H

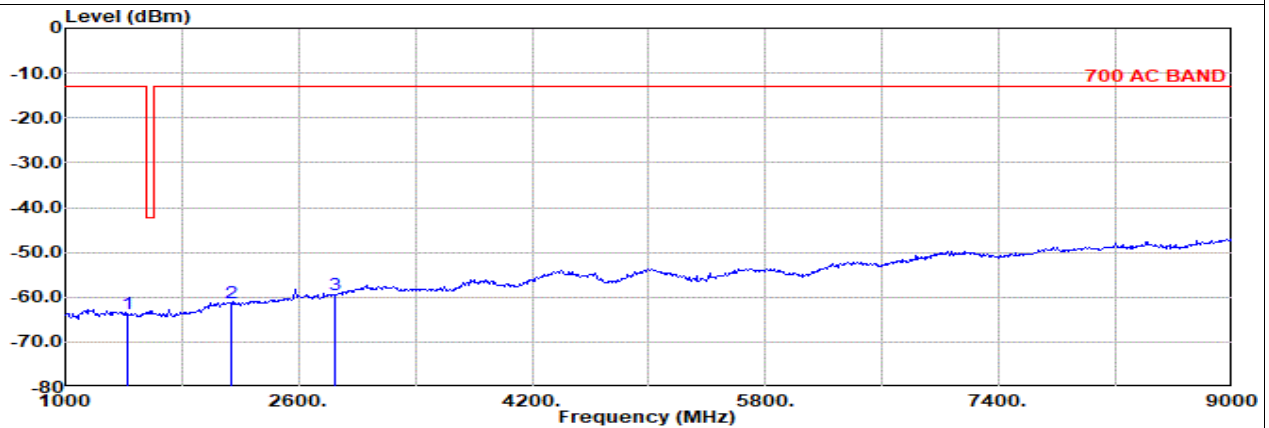


Site : 03CH11-HY

Condition: 700 AC BAND 3m 9120D\_02038\_240729 Horizontal

: LTE Band 12 5M Ch23155 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Readin g | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|--------|----------|--------|----------|--------|--------|------------|
|   | MHz     | dBm    |          | dB/m       |        | dB       | dB     | dBuV     | dBm    | dB     |            |
| 1 | 1422.00 | -62.50 | RMS      | 25.70      | -29.46 | 0.65     | -95.23 | 35.84    | -13.00 | -49.50 | Horizontal |
| 2 | 2134.00 | -61.29 | RMS      | 27.30      | -26.85 | 0.16     | -95.23 | 33.33    | -13.00 | -48.29 | Horizontal |
| 3 | 2845.00 | -59.45 | RMS      | 28.60      | -25.86 | 0.25     | -95.23 | 32.79    | -13.00 | -46.45 | Horizontal |



Site : 03CH11-HY

Condition: 700 AC BAND 3m 9120D\_02038\_240729 Vertical

: LTE Band 12 5M Ch23155 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Readin g | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|--------|----------|--------|----------|--------|--------|----------|
|   | MHz     | dBm    |          | dB/m       |        | dB       | dB     | dBuV     | dBm    | dB     |          |
| 1 | 1422.00 | -63.59 | RMS      | 25.70      | -29.46 | 0.65     | -95.23 | 34.75    | -13.00 | -50.59 | Vertical |
| 2 | 2134.00 | -61.38 | RMS      | 27.30      | -26.85 | 0.16     | -95.23 | 33.24    | -13.00 | -48.38 | Vertical |
| 3 | 2845.00 | -59.40 | RMS      | 28.60      | -25.86 | 0.25     | -95.23 | 32.84    | -13.00 | -46.40 | Vertical |

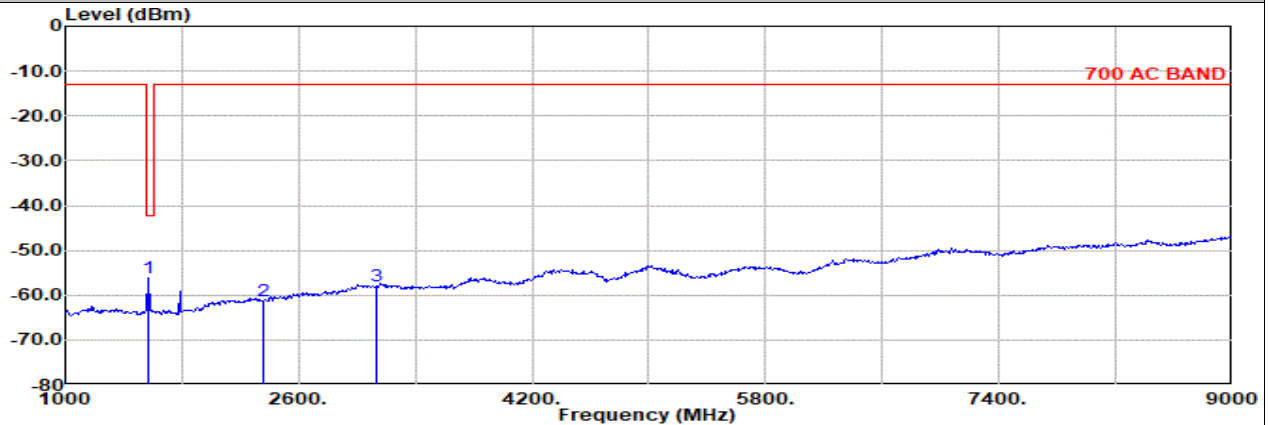


## External Front Fender Antenna

## Part 27F Mode 1

## LTE B13 5M Ch23255 1RB0 QPSK

## H

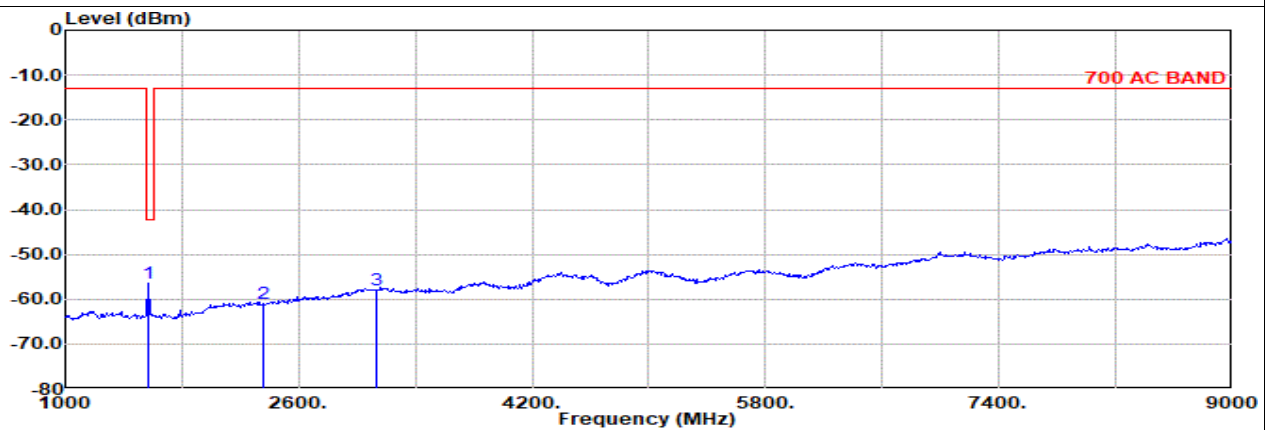


Site : 03CH11-HY

Condition: 700 AC BAND 3m 9120D\_02038\_240729 Horizontal

: LTE Band 13 5M Ch23255 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Readin g | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|--------|----------|--------|----------|--------|--------|------------|
|   | MHz     | dBm    |          |            |        | dB/m     | dB     | dB       | dB     | dB     |            |
| 1 | 1568.00 | -56.30 | RMS      | 25.40      | -28.68 | 0.44     | -95.23 | 41.77    | -42.15 | -14.15 | Horizontal |
| 2 | 2352.00 | -61.21 | RMS      | 27.30      | -26.61 | 0.23     | -95.23 | 33.10    | -13.00 | -48.21 | Horizontal |
| 3 | 3136.00 | -57.95 | RMS      | 29.74      | -25.38 | 0.27     | -95.23 | 32.65    | -13.00 | -44.95 | Horizontal |



Site : 03CH11-HY

Condition: 700 AC BAND 3m 9120D\_02038\_240729 Vertical

: LTE Band 13 5M Ch23255 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Readin g | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|--------|----------|--------|----------|--------|--------|----------|
|   | MHz     | dBm    |          |            |        | dB/m     | dB     | dB       | dB     | dB     |          |
| 1 | 1568.00 | -56.45 | RMS      | 25.40      | -28.68 | 0.44     | -95.23 | 41.62    | -42.15 | -14.30 | Vertical |
| 2 | 2352.00 | -61.01 | RMS      | 27.30      | -26.61 | 0.23     | -95.23 | 33.30    | -13.00 | -48.01 | Vertical |
| 3 | 3136.00 | -57.96 | RMS      | 29.74      | -25.38 | 0.27     | -95.23 | 32.64    | -13.00 | -44.96 | Vertical |

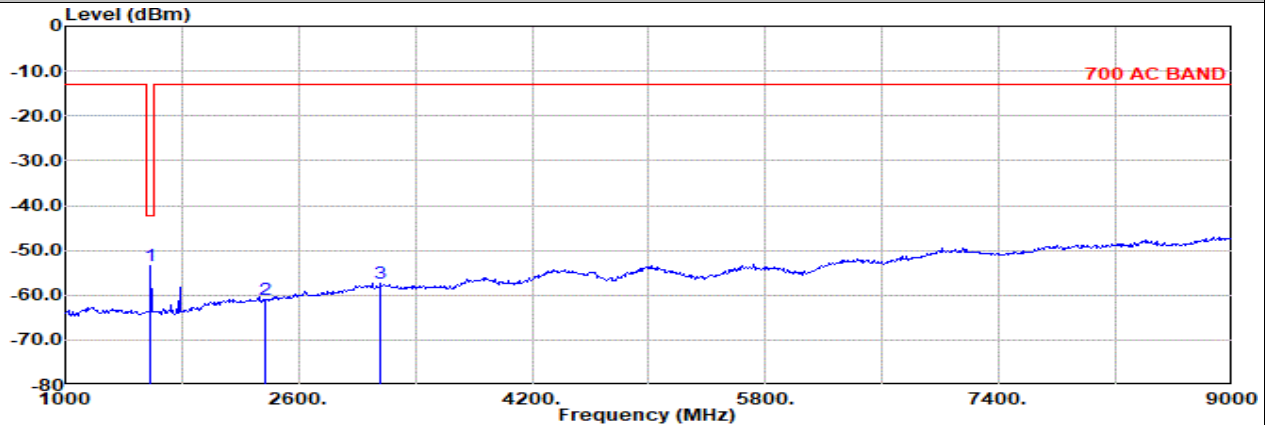


## External Front Fender Antenna

Part 90R Mode 1

LTE B14 5M Ch23330 1RB0 QPSK

M

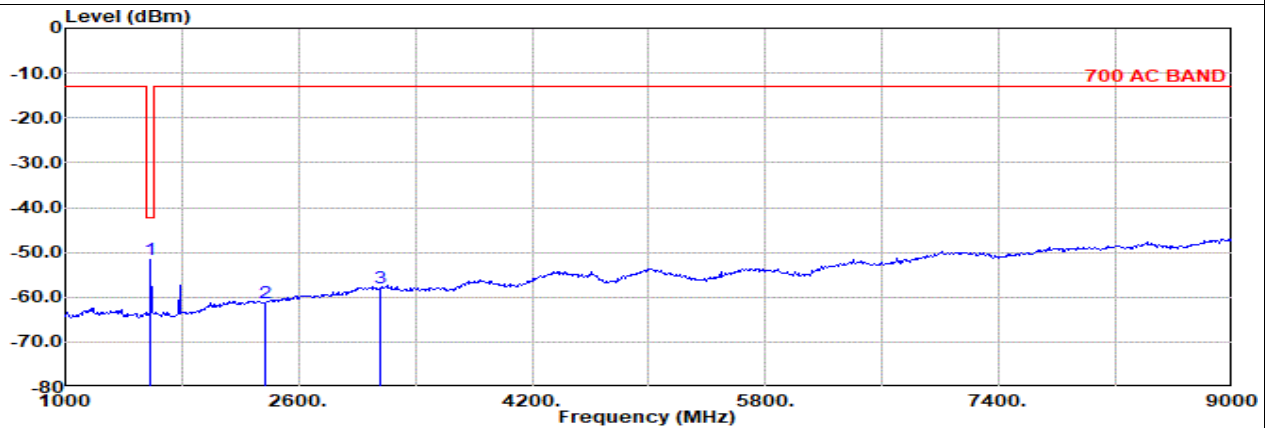


Site : 03CH11-HY

Condition: 700 AC BAND 3m 9120D\_02038\_240729 Horizontal

: LTE Band 14 5M Ch23330 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb 1 | Filter | EIRPCF | Readin g | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|----------|--------|--------|----------|--------|--------|------------|
|   | MHz     | dBm    |          | dB/m       | dB       | dB     | dB     | dBuV     | dBm    | dB     |            |
| 1 | 1584.00 | -53.32 | RMS      | 25.54      | -28.62   | 0.42   | -95.23 | 44.57    | -42.15 | -11.17 | Horizontal |
| 2 | 2372.00 | -61.13 | RMS      | 27.30      | -26.58   | 0.23   | -95.23 | 33.15    | -13.00 | -48.13 | Horizontal |
| 3 | 3163.00 | -57.35 | RMS      | 29.80      | -25.33   | 0.27   | -95.23 | 33.14    | -13.00 | -44.35 | Horizontal |



Site : 03CH11-HY

Condition: 700 AC BAND 3m 9120D\_02038\_240729 Vertical

: LTE Band 14 5M Ch23330 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant    | Amp\Cb | Filter | EIRPCF | Readin | Limit  | Margin | Pol      |
|---|---------|--------|----------|--------|--------|--------|--------|--------|--------|--------|----------|
|   |         |        |          | Factor | 1      |        |        |        | g      |        |          |
|   | MHz     | dBm    |          | dB/m   | dB     | dB     |        | dBuV   | dBm    |        |          |
| 1 | 1584.00 | -51.47 | RMS      | 25.54  | -28.62 | 0.42   | -95.23 | 46.42  | -42.15 | -9.32  | Vertical |
| 2 | 2372.00 | -61.32 | RMS      | 27.30  | -26.58 | 0.23   | -95.23 | 32.96  | -13.00 | -48.32 | Vertical |
| 3 | 3163.00 | -57.82 | RMS      | 29.80  | -25.33 | 0.27   | -95.23 | 32.67  | -13.00 | -44.82 | Vertical |

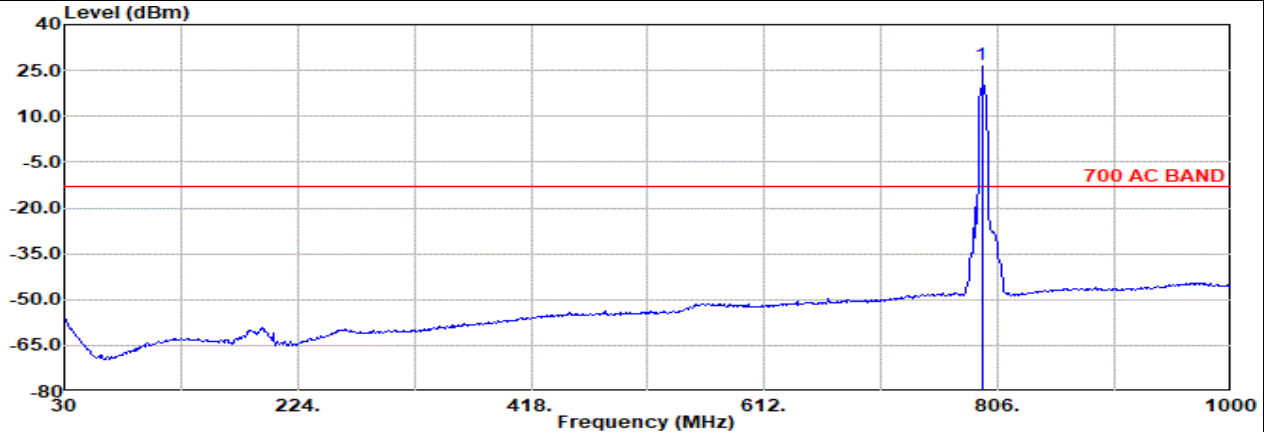


## External Front Fender Antenna

Part 90R Mode 1

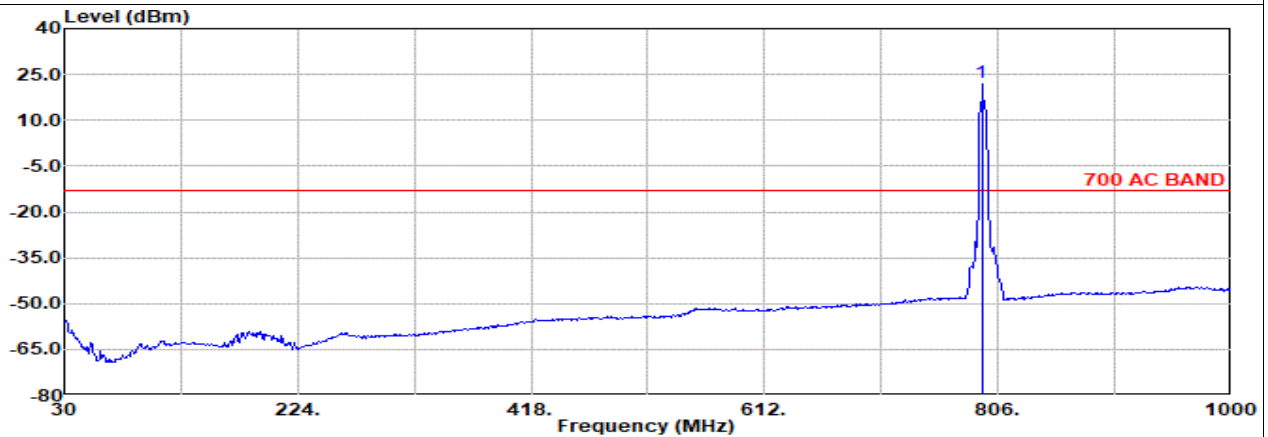
LTE B14 5M Ch23330 1RB0 QPSK

M



Site : 03CH11-HY  
Condition: 700 AC BAND 3m Bilog\_35414\_231007 Horizontal  
: LTE Band 14 5M Ch23330 1RB0 QPSK  
: #1 is fundamental signal which can be ignored.

|   | Freq   | Level | Detector | Ant Amp\Cb Filter |      | EIRPCF | Readin | Limit | Margin Pol |                  |
|---|--------|-------|----------|-------------------|------|--------|--------|-------|------------|------------------|
|   |        |       |          | Factor            | 1    |        |        |       |            |                  |
|   | MHz    | dBm   |          | dB/m              | dB   | dB     | dBuV   | dBm   | dB         |                  |
| 1 | 792.42 | 26.95 | RMS      | 28.23             | 3.69 | 0.00   | -95.23 | 90.26 | -13.00     | 39.95 Horizontal |



Site : 03CH11-HY  
Condition: 700 AC BAND 3m Bilog\_35414\_231007 Vertical  
: LTE Band 14 5M Ch23330 1RB0 QPSK  
: #1 is fundamental signal which can be ignored.

|   | Freq   | Level | Detector | Ant Amp\Cb Filter |      | EIRPCF | Readin | Limit | Margin Pol |                |
|---|--------|-------|----------|-------------------|------|--------|--------|-------|------------|----------------|
|   |        |       |          | Factor            | 1    |        |        |       |            |                |
|   | MHz    | dBm   |          | dB/m              | dB   | dB     | dBuV   | dBm   | dB         |                |
| 1 | 792.42 | 22.33 | RMS      | 28.23             | 3.69 | 0.00   | -95.23 | 85.64 | -13.00     | 35.33 Vertical |

Remark: #1 is fundamental signal which can be ignored.