

Report No.: FG211223003C

FCC RADIO TEST REPORT

FCC ID : PKRISGM3000A

Equipment : Phone
Brand Name : Inseego
Model Name : M3000A
Marketing Name : M3000

Applicant : Inseego Corp.

9710 Scranton Road Suite 200, San Diego, CA 92121

Manufacturer : Inseego Corp.

9710 Scranton Road Suite 200, San Diego, CA 92121

Standard : FCC 47 CFR Part 2, 96

The product was received on Jun. 18, 2022 and testing was performed from Jun. 26, 2022 to Jun. 29, 2022. We, Sporton International (USA) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval of Sporton International (USA) Inc., the test report shall not be reproduced except in full.

Approved by: Neil Kao

Mil Kao

Sporton International (USA) Inc.

1175 Montague Expressway, Milpitas, CA 95035

 TEL: 408 9043300
 Page Number
 : 1 of 12

 Report Template No.: BU5-FGLTE96 Version 2.4
 Issued Date
 : Jul. 03, 2022

Table of Contents

| His | story o | of this test report | 3 |
|-----|---------|--|----|
| Su | mmar | ry of Test Result | 4 |
| 1 | Gene | eral Description | 5 |
| | 1.1 | Product Feature of Equipment Under Test | 5 |
| | 1.2 | Modification of EUT | |
| | 1.3 | Testing Location | 5 |
| | 1.4 | Applied Standards | 5 |
| 2 | Test | Configuration of Equipment Under Test | 6 |
| | 2.1 | Test Mode | 6 |
| | 2.2 | Connection Diagram of Test System | 6 |
| | 2.3 | Support Unit used in test configuration | 7 |
| | 2.4 | Frequency List of Low/Middle/High Channels | 7 |
| 3 | Radi | iated Test Items | 8 |
| | 3.1 | Measuring Instruments | 8 |
| | 3.2 | Test Setup | |
| | 3.3 | Test Result of Radiated Test | 9 |
| | 3.4 | Radiated Spurious Emission | 10 |
| 4 | List | of Measuring Equipment | 11 |
| 5 | Unce | ertainty of Evaluation | 12 |
| Αp | pendi | ix A. Test Results of Radiated Test | |
| Αp | pendi | ix B. Test Setup Photographs | |

 TEL: 408 9043300
 Page Number
 : 2 of 12

 Report Template No.: BU5-FGLTE96 Version 2.4
 Issued Date
 : Jul. 03, 2022

Report Version : 01

History of this test report

| Report No. | Version | Description | Issued Date |
|--------------|---------|-------------------------|---------------|
| FG211223003C | 01 | Initial issue of report | Jul. 03, 2022 |
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 TEL: 408 9043300
 Page Number
 : 3 of 12

 Report Template No.: BU5-FGLTE96 Version 2.4
 Issued Date
 : Jul. 03, 2022

Report Version : 01

Summary of Test Result

| Report Clause | | Test Items | Result (PASS/FAIL) | Remark |
|------------------|-------------------|----------------------------|-----------------------|--------------|
| | §2.1051 §96.41 | | | Under limit |
| 3.4 | | Radiated Spurious Emission | Pass | 6.03 dB at |
| | | | | 7105.000 MHz |

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/manufacturer who shall bear all the risks of non-compliance that may potentially occur
 if measurement uncertainty is taken into account.
- 2. Please refer to the section "Uncertainty of Evaluation" for measurement uncertainty.

Comments and Explanations:

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

TEL: 408 9043300 Page Number : 4 of 12
Report Template No.: BU5-FGLTE96 Version 2.4 sued Date : Jul. 03, 2022

Report Version : 01

1 General Description

1.1 Product Feature of Equipment Under Test

3G-WCDMA, 4G-LTE, 5G-FR1 & FR2, Wi-Fi 2.4GHz 802.11b/g/n/ax, Wi-Fi 5GHz 802.11a/n/ac/ax and GNSS.

Report No. : FG211223003C

| Product Feature | | | | |
|--|------------------------------------|--|--|--|
| Test Antenna Type WWAN: Fixed Internal Antenna | | | | |
| | <ant. 4="">:</ant.> 1.5 dBi | | | |
| Test Antenna Gain | <ant. 5="">:</ant.> 0.8 dBi | | | |
| lest Antenna Gam | <ant. 6="">:</ant.> 3.8 dBi | | | |
| | <ant. 7="">:</ant.> 2.2 dBi | | | |

Remark: The EUT's information above is declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.2 Modification of EUT

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

1.3 Testing Location

| Test Site | Sporton International (USA) Inc. |
|-----------------------|--|
| Test Site Location | 1175 Montague Expressway, Milpitas, CA 95035 TEL: 408 9043300 |
| Test Site No. | Sporton Site No. |
| rest site No. | 03CH01-CA |
| Test Engineer | Yuan Lee |
| Temperature (°C) | 21~25 |
| Relative Humidity (%) | 42~46 |

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

1.4 Applied Standards

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

- + ANSI C63.26-2015
- ANSI / TIA-603-E
- FCC 47 CFR Part 2, 96
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 940660 D01 Part 96 CBRS Eqpt v03
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- FCC KDB 414788 D01 Radiated Test Site v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.

2. The A2LA code is not including all the FCC KDB listed without accreditation.

 TEL: 408 9043300
 Page Number
 : 5 of 12

 Report Template No.: BU5-FGLTE96 Version 2.4
 Issued Date
 : Jul. 03, 2022

2 Test Configuration of Equipment Under Test

2.1 Test Mode

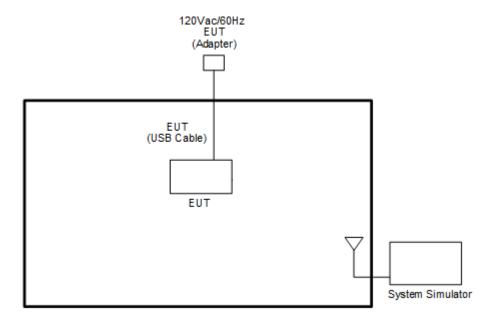
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

Report No.: FG211223003C

For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape) and accessory (Adapter or Earphone), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and find X plane as worst plane.

| Tool House | BI | Bandwidth (MHz) | | | Modulation | | | | RB# | | Test Channel | | | | | |
|----------------------------------|-------------------------------------|---|----|----|------------|--------------|------|-------|-------|--------|-----------------|------|------|---|---|---|
| Test Items | Band | 10 | 15 | 20 | 40 | PI/2 BPSK | QPSK | 16QAM | 64QAM | 256QAM | 1 | Half | Full | L | М | н |
| Radiated Spurious Emission | n48 | | | | v | | v | | | | | | | ٧ | v | ٧ |
| Remark | 2. Th 3. Th er th 4. Fo | The mark "-" means that this bandwidth is not supported. 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. | | | | | | | | | | | | | | |

2.2 Connection Diagram of Test System



TEL: 408 9043300 Page Number : 6 of 12
Report Template No.: BU5-FGLTE96 Version 2.4 Issued Date : Jul. 03, 2022

2.3 Support Unit used in test configuration

| ltem | Equipment | Brand Name | Model No. | FCC ID | Data Cable | Power Cord |
|------|------------------|------------|-----------|--------|------------|-------------------|
| 1. | System Simulator | Keysight | UXM | N/A | N/A | Unshielded, 1.8 m |
| 2. | System Simulator | R&S | CMW500 | N/A | N/A | Unshielded, 1.8 m |

Report No.: FG211223003C

2.4 Frequency List of Low/Middle/High Channels

| 5G NR n48 Channel and Frequency List | | | | | | |
|--------------------------------------|------------------------|--------|---------|---------|--|--|
| BW [MHz] | Channel/Frequency(MHz) | Lowest | Middle | Highest | | |
| 40 | Channel | 638000 | 641666 | 645332 | | |
| 40 | Frequency | 3570 | 3624.99 | 3679.98 | | |

 TEL: 408 9043300
 Page Number
 : 7 of 12

 Report Template No.: BU5-FGLTE96 Version 2.4
 Issued Date
 : Jul. 03, 2022

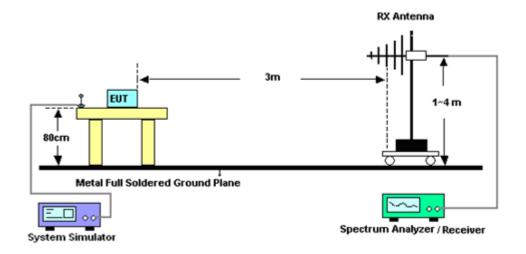
3 Radiated Test Items

3.1 Measuring Instruments

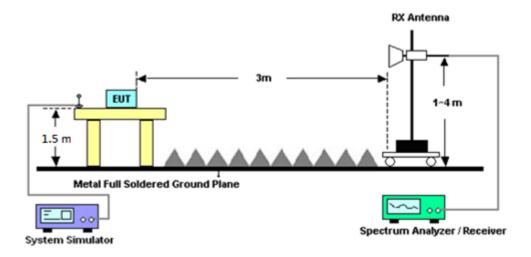
See list of measuring instruments of this test report.

3.2 Test Setup

For radiated emissions from 30MHz to 1GHz



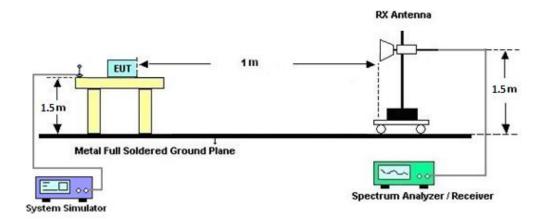
For radiated emissions from 1GHz to 18GHz



TEL: 408 9043300 Page Number : 8 of 12
Report Template No.: BU5-FGLTE96 Version 2.4 Issued Date : Jul. 03, 2022

Report Version : 01

For radiated emissions above 18GHz



3.3 Test Result of Radiated Test

Please refer to Appendix A.

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.

TEL: 408 9043300 Page Number : 9 of 12
Report Template No.: BU5-FGLTE96 Version 2.4 Issued Date : Jul. 03, 2022

Report Version : 01

3.4 Radiated Spurious Emission

3.4.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E.

Report No. : FG211223003C

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 -40dBm / MHz.

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

3.4.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI / TIA-603-E Section 2.2.12.

- 1. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
- 2. The EUT was set 3 meters from the receiving antenna 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 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
- 5. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
- 6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
- 7. Measure the burst average result by setting trace = average with duty cycle factor when margin is not enough
- 8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.

 Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.

```
EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain ERP (dBm) = EIRP - 2.15
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9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

TEL: 408 9043300 Page Number : 10 of 12
Report Template No.: BU5-FGLTE96 Version 2.4 Issued Date : Jul. 03, 2022

4 List of Measuring Equipment

| Instrument | Brand Name | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|----------------------|--------------------|--------------------------------------|---------------------------------------|---|---------------------|---------------------------------|---------------|--------------------------|
| Bilog Antenna | TESEQ | 6111D | 54683 | 30MHz~1GHz | Oct. 15, 2021 | Jun. 26, 2022~ Jun. 29, 2022 | Oct. 14, 2022 | Radiation (03CH01-CA) |
| Bilog Antenna | TESEQ | 6111D | 50391 | 30MHz~1GHz | Jul. 19, 2021 | Jun. 26, 2022~ Jun. 29, 2022 | Jul. 18, 2022 | Radiation (03CH01-CA) |
| Horn Antenna | SCHWARZBE CK | BBHA 9120D | 02140 | 1GHz~18GHz | Sep. 30, 2021 | Jun. 26, 2022~ Jun. 29, 2022 | Sep. 29, 2022 | Radiation (03CH01-CA) |
| Horn Antenna | SCHWARZBE CK | BBHA 9120D | 01895 | 1GHz~18GHz | Aug. 25, 2021 | Jun. 26, 2022~ Jun. 29, 2022 | Aug. 24, 2022 | Radiation (03CH01-CA) |
| Horn Antenna | SCHWARZBE CK | BBHA 9170D | 00842 | 18GHz~40GHz | Jul. 20, 2021 | Jun. 26, 2022~ Jun. 29, 2022 | Jul. 19, 2022 | Radiation (03CH01-CA) |
| Horn Antenna | SCHWARZBE CK | BBHA 9170D | 00841 | 18GHz~40GHz | Aug. 26, 2021 | Jun. 26, 2022~ Jun. 29, 2022 | Aug. 25, 2022 | Radiation (03CH01-CA) |
| Preamplifier | SONOMA | 310N | 372241 | 9kHz~1GHz | May 09, 2022 | Jun. 26, 2022~ Jun. 29, 2022 | May. 08, 2023 | Radiation (03CH01-CA) |
| Preamplifier | E-instrument | ERA-100M-18 G-56-01-A70 | EC1900252 | 1GHz~18GHz | May 09, 2022 | Jun. 26, 2022~ Jun. 29, 2022 | May 08, 2023 | Radiation (03CH01-CA) |
| Preamplifie | EMEC | EMC18G40G | 060725 | 18G-40G | May 10, 2022 | Jun. 26, 2022~ Jun. 29, 2022 | May 09, 2023 | Radiation (03CH01-CA) |
| EMI Test Receiver | R&S | ESU26 | 100123 | 20Hz~26.5GHz | May 31, 2022 | Jun. 26, 2022~ Jun. 29, 2022 | May 30, 2023 | Radiation (03CH01-CA) |
| Signal Generator | Rohde & Schwarz | FSV | 101089 | 10Hz~40GHz | Jun. 01, 2022 | Jun. 26, 2022~ Jun. 29, 2022 | May 31, 2023 | Radiation (03CH01-CA) |
| RF Cable | HUBER+SUH NER | SUCOFLEX 102 | 8015932/2, 8015762/2, 6015772/2 | N/A | Aug. 09, 2021 | Jun. 26, 2022~ Jun. 29, 2022 | Aug. 08, 2022 | Radiation (03CH01-CA) |
| Filter | Wainwright | WHKX8-5872. 5-6750-18000- 40ST | SN8 | 6.75GHz High Pass Filter | Jul. 22, 2021 | Jun. 26, 2022~ Jun. 29, 2022 | Jul. 21, 2022 | Radiation (03CH01-CA) |
| Hygrometer | TESTO | 608-H1 | 45141354 | N/A | Jul. 30, 2021 | Jun. 26, 2022~ Jun. 29, 2022 | Jul. 29, 2022 | Radiation (03CH01-CA) |
| Controller | Chaintek | EM-1000 | 060881 | Control Turn Table & Antenna Mast | N/A | Jun. 26, 2022~ Jun. 29, 2022 | N/A | Radiation (03CH01-CA) |
| Antenna Mast | ChainTek | MBS-520-1 | N/A | 1m~4m | N/A | Jun. 26, 2022~ Jun. 29, 2022 | N/A | Radiation (03CH01-CA) |
| Turn Table | ChainTek | T-200-S-1 | N/A | 0~360 Degree | N/A | Jun. 26, 2022~ Jun. 29, 2022 | N/A | Radiation (03CH01-CA) |
| Test Software | Audix E3 | E6.2009-8-24d | PK-002093 | N/A | N/A | Jun. 26, 2022~ Jun. 29, 2022 | N/A | Radiation (03CH01-CA) |

 TEL: 408 9043300
 Page Number
 : 11 of 12

 Report Template No.: BU5-FGLTE96 Version 2.4
 Issued Date
 : Jul. 03, 2022

Report Version : 01

5 Uncertainty of Evaluation

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

| Measuring Uncertainty for a Level of | 3.40 dB |
|--------------------------------------|---------|
| Confidence of 95% (U = 2Uc(y)) | 3.40 UB |

Report No. : FG211223003C

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

| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 3.60 dB |
|---|---------|
| | |

<u>Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)</u>

| | - |
|--------------------------------------|---------|
| Measuring Uncertainty for a Level of | 4.30 dB |
| Confidence of 95% (U = 2Uc(y)) | 4.30 dB |

TEL: 408 9043300 Page Number : 12 of 12
Report Template No.: BU5-FGLTE96 Version 2.4 Issued Date : Jul. 03, 2022

Appendix A. Test Results of Radiated Test

<Ant. 4>

5G NR n48

Report No. : FG211223003C

| 5GNR n48/ 40MHz / QPSK | | | | | | | | | |
|------------------------|--------------------|---------------|------------------|------------------|-------------------------|--------------------------|----------------------|-----------------------------|-----------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| | 7105 | -52.14 | -40 | -12.14 | -47.63 | -62.24 | 1.15 | 11.25 | Н |
| | 10655 | -54.92 | -40 | -14.92 | -52.68 | -64.33 | 1.39 | 10.79 | Н |
| | 17762 | -50.45 | -40 | -10.45 | -55.7 | -58.49 | 1.85 | 9.88 | Н |
| | | | | | | | | | Н |
| | | | | | | | | | Н |
| | | | | | | | | | Н |
| Lowest | 7105 | -46.03 | -40 | -6.03 | -42.19 | -56.11 | 1.15 | 11.22 | V |
| | 10655 | -53.48 | -40 | -13.48 | -51.12 | -62.93 | 1.39 | 10.84 | V |
| | 17762 | -48.70 | -40 | -8.70 | -55.91 | -56.76 | 1.85 | 9.90 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | 7215 | -55.56 | -40 | -15.56 | -51.22 | -65.50 | 1.15 | 11.09 | Н |
| | 10820 | -55.65 | -40 | -15.65 | -53.67 | -64.93 | 1.37 | 10.65 | Н |
| | 18033 | -60.68 | -40 | -20.68 | -73.63 | -64.52 | 13.93 | 17.77 | Н |
| | | | | | | | | | Н |
| | | | | | | | | | Н |
| | | | | | | | | | Н |
| Middle | 7215 | -47.55 | -40 | -7.55 | -44.29 | -57.63 | 1.15 | 11.22 | V |
| | 10820 | -51.83 | -40 | -11.83 | -49.8 | -61.15 | 1.37 | 10.69 | V |
| | 18033 | -55.63 | -40 | -15.63 | -68.99 | -59.40 | 13.93 | 17.71 | V |
| | 25248 | -56.46 | -40 | -16.46 | -75.87 | -58.93 | 16.57 | 19.03 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |

TEL: 408 9043300 Page Number: A1 of A4

| | 7395 | -56.06 | -40 | -16.06 | -50.35 | -65.77 | 1.30 | 11.01 | Н |
|---------|-------|--------|-----|--------|--------|--------|-------|-------|---|
| | 11095 | -54.91 | -40 | -14.91 | -53.65 | -64.32 | 1.41 | 10.82 | Н |
| | 25892 | -64.12 | -40 | -24.12 | -78.48 | -66.75 | 16.81 | 19.44 | Н |
| | | | | | | | | | Н |
| | | | | | | | | | Н |
| LP-L | | | | | | | | | Н |
| Highest | 7395 | -47.97 | -40 | -7.97 | -42.59 | -57.69 | 1.30 | 11.01 | V |
| | 11095 | -54.21 | -40 | -14.21 | -53.05 | -63.68 | 1.41 | 10.88 | V |
| | 25892 | -53.96 | -40 | -13.96 | -73.08 | -56.50 | 16.81 | 19.35 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |

Report No. : FG211223003C

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

TEL: 408 9043300 Page Number: A2 of A4

MIMO <Ant. 4+6>

5GNR n48 MIMO

Report No. : FG211223003C

| 5GNR n48 MIMO/ 40MHz / QPSK | | | | | | | | | |
|-----------------------------|----------------------|---------------|------------------|------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| | 7105 | -57.86 | -40 | -17.86 | -53.35 | -67.96 | 1.15 | 11.25 | Н |
| | 10655 | -56.14 | -40 | -16.14 | -53.9 | -65.55 | 1.39 | 10.79 | Н |
| | 14211 | -56.43 | -40 | -16.43 | -57.73 | -66.40 | 1.52 | 11.48 | Н |
| | | | | | | | | | Н |
| | | | | | | | | | Н |
| Lowest | | | | | | | | | Н |
| Lowest | 7105 | -50.16 | -40 | -10.16 | -46.32 | -60.24 | 1.15 | 11.22 | V |
| | 10655 | -56.17 | -40 | -16.17 | -53.81 | -65.62 | 1.39 | 10.84 | V |
| | 14211 | -55.84 | -40 | -15.84 | -57.9 | -65.94 | 1.52 | 11.61 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | 7214 | -57.78 | -40 | -17.78 | -53.44 | -67.72 | 1.15 | 11.09 | Н |
| | 10820 | -56.21 | -40 | -16.21 | -54.23 | -65.49 | 1.37 | 10.65 | Н |
| | 14425 | -55.25 | -40 | -15.25 | -56.1 | -64.91 | 1.54 | 11.20 | Н |
| | | | | | | | | | Н |
| | | | | | | | | | Н |
| Middle | | | | | | | | | Н |
| ivildale | 7214 | -50.26 | -40 | -10.26 | -47.02 | -60.34 | 1.15 | 11.22 | V |
| | 10820 | -56.25 | -40 | -16.25 | -54.22 | -65.57 | 1.37 | 10.69 | V |
| | 14425 | -53.69 | -40 | -13.69 | -56.05 | -63.39 | 1.54 | 11.23 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |

TEL: 408 9043300 Page Number : A3 of A4

| Highest | 7395 | -57.20 | -40 | -17.20 | -51.49 | -66.91 | 1.30 | 11.01 | Н |
|---------|-------|--------|-----|--------|--------|--------|------|-------|---|
| | 11090 | -55.19 | -40 | -15.19 | -53.92 | -64.59 | 1.41 | 10.80 | Н |
| | 14791 | -55.23 | -40 | -15.23 | -56.95 | -65.02 | 1.63 | 11.42 | Н |
| | | | | | | | | | Н |
| | | | | | | | | | Н |
| | | | | | | | | | Н |
| | 7395 | -49.92 | -40 | -9.92 | -44.54 | -59.64 | 1.30 | 11.01 | V |
| | 11090 | -55.37 | -40 | -15.37 | -54.2 | -64.82 | 1.41 | 10.85 | V |
| | 14791 | -53.39 | -40 | -13.39 | -57.26 | -63.11 | 1.63 | 11.35 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |

Report No. : FG211223003C

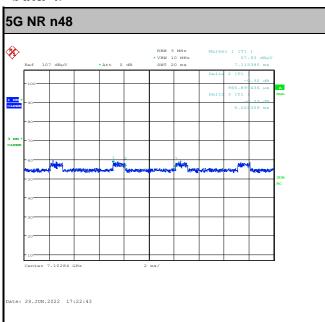
Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

TEL: 408 9043300 Page Number : A4 of A4

Appendix B. Duty Cycle Plots

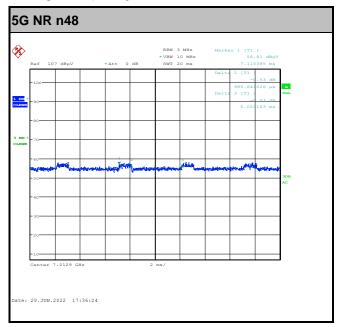
Report No. : FG211223003C

<Ant. 4>



Note: Duty cycle = 19.30 %, Variation <2%

MIMO <Ant. 4+6>



Note: Duty cycle = 19.62 %, Variation <2%

TEL: 408 9043300 Page Number : B1 of B1



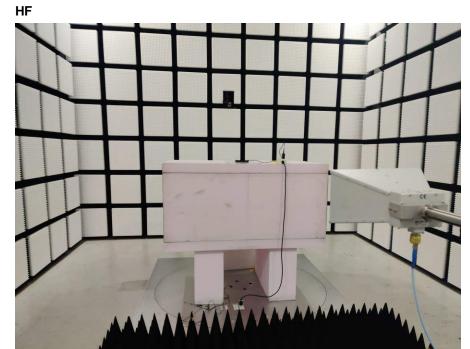
Appendix C. Setup Photographs

<Radiated Emission>

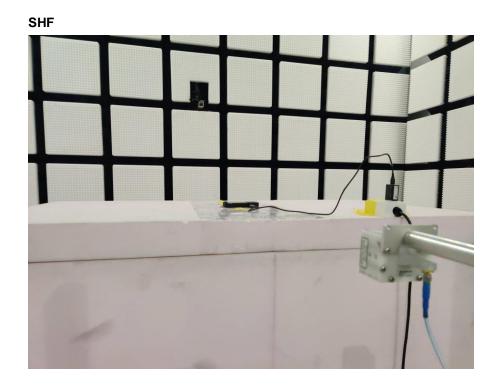
X Plane







TEL: 408 9043300 Page Number: B1 of B2



----THE END-----

TEL: 408 9043300 Page Number: B2 of B2