



Report No.: AAEMT/EMC/210901-01-07

FCC Test Report

(Part 27)

Client Information:

Applicant: Netradyne Inc

Applicant add.: 9191 Towne Centre Drive Suite 200, San Diego, CA 92122

Product Information:

EUT Name: Driveri

Model No.: D-215

Brand Name: netradyne

FCC ID: 2AM8R-D215

Standards: FCC PART 27

AA Electro Magnetic Test Laboratory Private Limited

Add.: Plot No 174, Udyog Vihar - Phase 4, Sector 18, Gurgaon, Haryana, India

Date of Receipt: Sep. 01, 2021 Date of Test: Oct. 05~ Oct. 07, 2021

Date of Issue: Nov. 23, 2021 Test Result: Pass

This device described above has been tested by AA Electro Magnetic Test Laboratory Private Limited, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

*This test report must not be used by the client to claim product endorsement by any agency of the U.S. government.

Declaration of Conformity: Declaration of conformity of the results is based as per the standard limits

Prepared By: (+ signature) Abhinav Kumar

Reviewed & Approved by: (+ signature)

Dr. Lenin Raja (Authorized Representative) (/ lenin83/)

Dund





Report No.: AAEMT/EMC/210901-01-07

1 Contents

| COLUED | DA CE | Page |
|--------|--|------|
| COVER | PAGE | |
| 1 C | CONTENTS | 2 |
| 2 T | EST SUMMARY | 3 |
| 2.1 | COMPLIANCE WITH FCC PART 24 SUBPART E | 3 |
| 2.2 | MEASUREMENT UNCERTAINTY | 5 |
| 2.3 | TEST LOCATION | 5 |
| 3 T | TEST FACILITY | 6 |
| 3.1 | DEVIATION FROM STANDARD | 6 |
| 3.2 | ABNORMALITIES FROM STANDARD CONDITIONS | 6 |
| 4 G | GENERAL INFORMATION | 7 |
| 4.1 | GENERAL DESCRIPTION OF EUT | 7 |
| 4.2 | EUT PERIPHERAL LIST | 10 |
| 4.3 | TEST PERIPHERAL LIST | 10 |
| 5 E | QUIPMENTS LIST FOR ALL TEST ITEMS | 11 |
| 5.1 | OUTPUT POWER MEASUREMENT | 13 |
| 5.2 | FREQUENCY STABILITY MEASUREMENT | 17 |
| 5.3 | OCCUPIED BANDWIDTH MEASUREMENT | 19 |
| 5.4 | BAND EDGE MEASUREMENT | 25 |
| 5.5 | PEAK TO AVERAGE RATIO | 29 |
| 5.6 | CONDUCTED SPURIOUS EMISSIONS | 34 |
| 5.7 | RADIATED EMISSION MEASUREMENT | 34 |





Report No.: AAEMT/EMC/210901-01-07

2 Test Summary

2.1 Compliance with FCC Part 27

| | Applied Standard: FCC Pa | rt 27 & Part | 2 (LTE 4) |
|-----------------------|------------------------------|--------------|--|
| FCC Clause | Test Item | Result | Remarks |
| 2.1046 27.50(d)(4) | Maximum Peak Output Power | Pass | Meet the requirement of limit. |
| 2.1047 | Modulation Characteristics | Pass | Meet the requirement. |
| 2.1055 27.54 | Frequency Stability | Pass | Meet the requirement of limit. |
| 2.1049 27.53(h) | Occupied Bandwidth | Pass | Meet the requirement of limit. |
| 27.50(d)(5) | Peak to Average Ratio | Pass | Meet the requirement of limit. |
| 27.53(h) | Band Edge Measurements | Pass | Meet the requirement of limit. |
| 2.1051 27.53(h) | Conducted Spurious Emissions | Pass | Meet the requirement of limit. |
| 2.1053 27.53(h) | Radiated Spurious Emissions | Pass | Meet the requirement of limit. Minimum passing margin is -17.57 dB at 6842.80 MHz. |

| | Applied Standard: FCC Part 27 & Part 2 (LTE 12) | | | | | | |
|--|---|--------|--------------------------------|--|--|--|--|
| FCC Clause | Test Item | Result | Remarks | | | | |
| 2.1046 27.50(c)(10) Maximum Peak Output Power | | Pass | Meet the requirement of limit. | | | | |
| 2.1047 | Modulation Characteristics | Pass | Meet the requirement. | | | | |
| 2.1055 27.54 | Frequency Stability | Pass | Meet the requirement of limit. | | | | |
| 2.1049 | Occupied Bandwidth | Pass | Meet the requirement of limit. | | | | |
| 27.50(d)(5) | Peak to Average Ratio | Pass | Meet the requirement of limit. | | | | |
| 27.53(g) | Band Edge Measurements | Pass | Meet the requirement of limit. | | | | |
| 2.1051 27.53(g) | Conducted Spurious Emissions | Pass | Meet the requirement of limit. | | | | |





Report No.: AAEMT/EMC/210901-01-07

| 2.1053 | Radiated Spurious Emissions | Pass | Meet the requirement of limit. Minimum passing margin is -32.40 dB at 1430.60 |
|----------|-----------------------------|------|---|
| 27.53(g) | | | MHz. |







Report No.: AAEMT/EMC/210901-01-07

2.2 Measurement Uncertainty

All measurements involve certain levels of uncertainties, the following measurements uncertainty Levels have estimated based on standards, the maximum value of the uncertainty as below:

| No. | Item | Uncertainty |
|-----|-------------------------|-------------|
| 1 | Conducted Emission Test | 2.82dB |
| 2 | Radiated Emission Test | 2.79dB |

2.3 Test Location

All tests were performed at:

AA Electro Magnetic Test Laboratory Private Limited

Plot No 174, Udyog Vihar - Phase 4, Sector 18, Gurgaon, Haryana, India

Tel.: +91-0124-4235350





Report No.: AAEMT/EMC/210901-01-07

3 Test Facility

The test facility is recognized, certified or accredited by the following organizations:

ILAC / NABL Accreditation No.: TC-8597

Three 3m Semi-Anechoic Chamber, 1 full-Anechoic chamber and 2 Shielding Rooms of AA Electro Magnetic Test Laboratory Private Limited have been registered by National Accreditation Board for Testing and Calibration Laboratories (NABL).

ILAC -A2LA Accreditation No.: 5593.01

Three 3m Semi-Anechoic Chamber, 1 full-Anechoic chamber and 2 Shielding Rooms of AA Electro Magnetic Test Laboratory Private Limited have been registered American Association of Laboratory Accreditation (A2LA).

FCC- Recognition No.: 137777

Three 3m Semi-Anechoic Chamber, 1 full-Anechoic chamber and 2 Shielding Rooms of AA Electro Magnetic Test Laboratory Private Limited have been registered by Federal Communications Commission (FCC).

ISED Recognition No.: 26046

Three 3m Semi-Anechoic Chamber, 1 full-Anechoic chamber and 2 Shielding Rooms of AA Electro Magnetic Test Laboratory Private Limited have been registered by Institute for Social and Economic Development (ISED).

VCCI- Registration No: 4053

Three 3m Semi-Anechoic Chamber, 1 full-Anechoic chamber and 2 Shielding Rooms of AA Electro Magnetic Test Laboratory Private Limited have been registered by Voluntary Control Council for Interference (VCCI).

TEC Designation No.: IND063

Three 3m Semi-Anechoic Chamber, 1 full-Anechoic chamber and 2 Shielding Rooms of AA Electro Magnetic Test Laboratory Private Limited have been registered by Telecommunication Engineering (TEC) Center.

BIS Recognition No: 816586

BIS recognized as per CRS scheme for IT electronics, LED control gears, Lamp, Inverter / UPS are recognized as per LRS 2020.

3.1 Deviation from standard

None

3.2 Abnormalities from standard conditions

None





Report No.: AAEMT/EMC/210901-01-07

4 General Information

4.1 General Description of EUT

| Manufacturer: | Netradyne Inc | | |
|---------------------------------|---|--|--|
| Manufacturer Address: | 9191 Towne Centre Drive Suite 200, San Die | ego, CA 92122 | |
| EUT Name: | Driveri | | |
| Model No: | D-215 | | |
| Brand Name: | N netradyne | | |
| Derivative model No.: | N/A | | |
| | LTE Band 4 Channel Bandwidth: 10MHz | 1715 MHz ~ 1750 MHz | |
| Frequency Range: | LTE Band 12 Channel Bandwidth: 10MHz | 704 MHz ~ 711 MHz | |
| | LTE Band 13 Channel Bandwidth: 10MHz | 704 MHz ~ 711 MHz | |
| Modulation Technology: | LTE Band 4,12,13 : QPSK | | |
| Antenna Gain(dBi): | 2.5dBi | | |
| H/W No.: | 501-1-01549 A2 | | |
| S/W No.: | 4.5.8.rc.1 | | |
| Power Supply Range: | Input: 12VDC 3A | | |
| Condition of Sample on receipt: | Good | | |
| Note: | | | |
| 1. | For a more detailed features description specifications or the User's Manual. | on, please refer to the manufacturer's | |





Report No.: AAEMT/EMC/210901-01-07

4.2 EUT channels and frequencies list:

LTE BAND 4

| EUT Configure | Available Test Item Channel | | Tested Channel | Channel Bandwidth | Modulation |
|------------------|------------------------------------|----------------|---------------------|-------------------|------------|
| - | EIRP | 20000 to 20350 | 20000, 20175, 20350 | 10 MHz | QPSK |
| - | Frequency Stability | 20000 to 20350 | 20000,20350 | 10 MHz | QPSK |
| - | Occupied 20000 to 20350 Bandwidth | | 20000, 20175, 20350 | 10 MHz | QPSK |
| - | Peak to Average Ratio | 20000 to 20350 | 20000, 20175, 20350 | 10 MHz | QPSK |

| EUT Configure | Test Item | Available Channel | Tested Channel | Channel Bandwidth | Modulation |
|------------------|---------------------------|----------------------|---------------------|----------------------|------------|
| | | | 20000 | 10 MHz | QPSK |
| - | Band Edge | 20000 to 20350 | 20350 | 10 MHz | QPSK |
| - | - Conducted Emission 2 | | 20000, 20175, 20350 | 10 MHz | QPSK |
| - Radiated 20000 | | 20000 to 20350 | 20000, 20175, 20350 | 10 MHz | QPSK |
| | Emission 20000 to 20350 | 20000 to 20000 | 20000, 20173, 20330 | 10 141112 | |





Report No.: AAEMT/EMC/210901-01-07

LTE BAND 12

| EUT Configure | Test Item | Available Channel | Tested Channel | Channel Bandwidth | Modulation |
|------------------|--------------------------|----------------------|---------------------|-------------------|------------|
| - | EIRP | 23060 to 23130 | 23060, 23095, 23130 | 10MHz | QPSK |
| - | Frequency Stability | 23060 to 23130 | 23060,23130 | 10MHz | QPSK |
| - | Occupied Bandwidth | 23060 to 23130 | 23060, 23095, 23130 | 10MHz | QPSK |
| - | Peak to Average Ratio | 23060 to 23130 | 23060, 23095, 23130 | 10MHz | QPSK |

| EUT Configure | Test Item | Available Channel | Tested Channel | Channel Bandwidth | Modulation |
|------------------|-----------------------|----------------------|---------------------|----------------------|------------|
| | 1 | | 23060 | 10MHz | QPSK |
| - | Band Edge | 23060 to 23130 | 23130 | 10MHz | QPSK |
| - | Conducted Emission | 23060 to 23130 | 23017, 23095, 23173 | 10MHz | QPSK |
| - | Radiated Emission | 23060 to 23130 | 23017, 23095, 23173 | 10MHz | QPSK |





Report No.: AAEMT/EMC/210901-01-07

4.3 EUT Peripheral List

| No · | Equipment | Manufacturer | Model No. | Serial No. | Power cord | signal cable |
|------|---------------|----------------|-----------|---------------|------------|--------------|
| 1. | Power Adaptor | Netradyne Inc. | N/A | D-210-A D3 | N/A | N/A |

4.4 Test Peripheral List

| No · | Equipment | Manufacturer | Model No. | Serial No. | Power cord | signal cable |
|---------|--------------------|--------------|-----------|----------------|-------------|------------------------|
| 1 | DC Power Supply | JUNKE | N/A | JK15040K | 20181126-43 | 2m Unshielded Cable |
| 2. | Laptop | DELL | N/A | Latitude E7240 | 6SJ2T02 | 2m unshielded |





Report No.: AAEMT/EMC/210901-01-07

5 Equipments List for All Test Items

| No | Test Equipment | Manufacturer | Model No | Serial No | Cal. Date | Cal. Due Date |
|----|-----------------------------|----------------------|-------------|------------|------------|---------------|
| 1 | EMI TEST Receiver | Spectrum Analyzer | FSP40 | 101163 | 2020/12/11 | 2022/12/10 |
| 2 | Loop antenna | DAZE Beijing | ZN30900C | 18052 | 2020/01/29 | 2022/01/28 |
| 3 | Hi power horn antenna | DAZE Beijing | ZN30700 | 18012 | 2020/01/30 | 2022/01/29 |
| 4 | Horn antenna | DAZE Beijing | ZN30702 | 18006 | 2020/01/30 | 2022/01/29 |
| 5 | Horn antenna | DAZE Beijing | ZN30703 | 18005 | 2020/01/30 | 2022/01/29 |
| 6 | Preamplifier | KELIANDA | LNA-0009295 | - | 2021/01/13 | 2022/01/13 |
| 7 | Preamplifier | KELIANDA | CF-00218 | 1 | 2021/01/13 | 2022/01/13 |
| 8 | Bi conical Antenna | DAZE Beijing | ZN30505C | 17038 | 2020/01/28 | 2022/01/29 |
| 9 | EMI-RECEIVER | Schwarzbeck | FCKL | 1528194 | 2021/01/13 | 2022/01/13 |
| 10 | Spectrum Analyzer | ADVANTEST | R3361 | - | 2021/01/13 | 2022/01/13 |
| 11 | LISN | Kyoritsu | KNW-407 | 8-1789-5 | 2021/01/13 | 2022/01/13 |
| 12 | Network-LISN | Schwarzbeck | NNBM8125 | 81251314 | 2021/01/13 | 2022/01/13 |
| 13 | Network-LISN | Schwarzbeck | NNBM8125 | 81251315 | 2021/01/13 | 2022/01/13 |
| 14 | PULSELIMITER | Rohde and Schwarz | ESH3-Z2 | 100681 | 2020/05/13 | 2021/05/12 |
| 15 | 50ΩCoaxialSwitch | DAIWA | 1565157 | - | 2020/05/13 | 2021/05/12 |
| 16 | 50ΩCoaxialSwitch | - | - | - | 2020/05/13 | 2021/05/12 |
| 17 | Wireless signal power meter | DARE!! | RPR3006W | RFSW190220 | 2021/01/13 | 2022/01/13 |
| 18 | Signal Generator | KEYSIGHT | N5181A | 512071 | 2021/01/13 | 2022/01/13 |





Report No.: AAEMT/EMC/210901-01-07

| | report to the minimum property of the contract | | | | | |
|----|--|----------|------------|--------------------------|------------|------------|
| 19 | RF Vector Signal Generator | Keysight | N5182B | 512094 | 2021/01/13 | 2022/01/13 |
| 20 | Spectrum analyzer | R&S | FSV-40N | 101385 | 2021/01/13 | 2022/01/13 |
| 21 | Radio Communication R&S | | CMW 500 | 124589 | 2020/5/15 | 2021/5/14 |
| 22 | Signal Generator | R&S | SMP02 | 837017/004 836593/005 | 2020/5/15 | 2021/5/14 |
| 23 | DC Power Supply | Guanker | JK15040K | TNC/ET/C/0 01/15 | 2020/2/2 | 2022/2/1 |
| 24 | Pro. Temp & Humi. chamber | MENTEK | MHP-150-1C | MAA081125 01 | 2020/2/2 | 2022/2/1 |
| 25 | Attenuators | AGILENT | 8494B | | - | - |
| 26 | Attenuators | AGILENT | 8495B | 1 | - | - |
| | | | | | | |





Report No.: AAEMT/EMC/210901-01-07

5.1 Output Power Measurement

5.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

Portable stations (hand-held devices) operating in the 746-757 MHz, 776-788 MHz and 805-806 MHz band are limited to 3 watts ERP

Portable stations (hand-held device) operating in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

5.1.2 TEST PROCEDURES

EIRP/ERP Measurement:

- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 10 MHz for LTE mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G.
- d. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution horn. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.R.P power 2.15 dB.

CONDUCTED POWER MEASUREMENT:

- a. The EUT was set up for the maximum power with LTE link data modulation and link up with simulator.
- b. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.



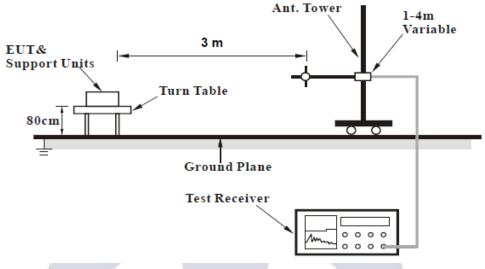


Report No.: AAEMT/EMC/210901-01-07

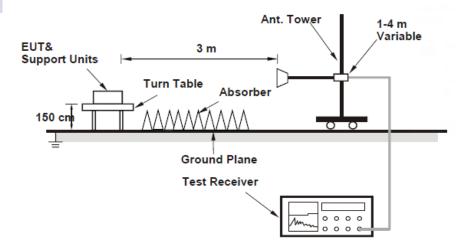
5.1.3 TEST SETUP

EIRP/ERP Measurement:

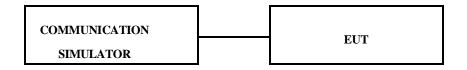
< Radiated Emission below or equal 1 GHz>



< Radiated Emission above 1 GHz>



CONDUCTED POWER MEASUREMENT:







Report No.: AAEMT/EMC/210901-01-07

5.1.4 Test results

Conducted Output Power (dBm)

Band 4

| LTE Band 4 | | | | | |
|------------|-----------|----------|-----------------|------------------|--|
| Modulation | Bandwidth | Channels | Frequency (MHz) | Tx Average (dBm) | |
| | | 20000 | 1715 | 23.93 | |
| QPSK | 10MHz | 20175 | 1732.5 | 25.39 | |
| | | 20350 | 1750 | 25.29 | |

Band 12

| LTE Band 12 | | | | | |
|-------------|-----------|----------|-----------------|------------------|--|
| Modulation | Bandwidth | Channels | Frequency (MHz) | Tx Average (dBm) | |
| | | 23060 | 704 | 26.66 | |
| QPSK | 10MHz | 23095 | 707.5 | 25.86 | |
| | | 23130 | 711 | 26.31 | |





Report No.: AAEMT/EMC/210901-01-07

ERP Power (dBm)

| | LTE Band 12 | | | | | | | |
|-------|----------------------------------|-----------------|---------------|---------------------------|-----------|----------|--------------------|--|
| | Channel Bandwidth: 10 MHz / QPSK | | | | | | | |
| Plane | Channel | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | ERP (dBm) | ERP (mW) | Polarization (H/V) | |
| | 23060 | 704 | -3.19 | 30.36 | 25.02 | 317.69 | | |
| | 23095 | 707.5 | -3.23 | 30.17 | 24.79 | 301.30 | | |
| | 23130 | 711 | -3.44 | 30.17 | 24.58 | 287.08 | Н | |
| X | 23060 | 704 | -11.76 | 32.03 | 18.12 | 64.86 | | |
| | 23095 | 707.5 | -12.05 | 31.98 | 17.78 | 59.98 | ** | |
| | 23130 | 711 | -12.30 | 32.06 | 17.61 | 57.68 | V | |

Note: ERP(dBm) = Reading(dBm) + Correction Factor(dB) - 2.15

| | LTE Band 4 | | | | | | | |
|-------|----------------------------------|--------|--------|-------|-------|--------|-----------------------|--|
| | Channel Bandwidth: 10 MHz / QPSK | | | | | | | |
| Plane | | | | | | | Polarization (H/V) | |
| | 20000 | 1715 | -8.48 | 36.45 | 27.97 | 626.61 | | |
| | 20175 | 1732.5 | -8.66 | 36.80 | 28.14 | 651.63 | ** | |
| | 20350 | 1750 | -9.12 | 36.94 | 27.82 | 605.34 | Н | |
| X | 20000 | 1715 | -14.00 | 37.28 | 23.28 | 212.81 | | |
| | 20175 | 1732.5 | -14.11 | 37.63 | 23.52 | 224.91 | X 7 | |
| | 20350 | 1750 | -14.66 | 37.64 | 22.98 | 198.61 | V | |

Note: EIRP(dBm) = Reading(dBm) + Correction Factor(dB)





Report No.: AAEMT/EMC/210901-01-07

5.2 FREQUENCY STABILITY MEASUREMENT

5.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

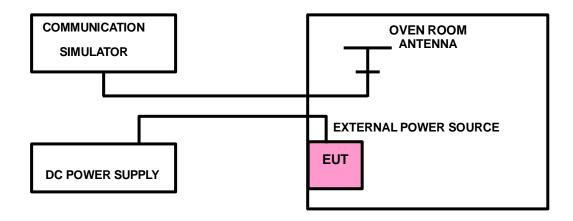
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

5.2.2 TEST PROCEDURE

- a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- b. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ± 0.5 °C during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

5.2.3 TEST SETUP







Report No.: AAEMT/EMC/210901-01-07

5.2.4 TEST RESULTS

Frequency Error vs. Temperature

| | LTE Band 4 Channel Bandwidth: 10 MHz | | | | | |
|------------|--------------------------------------|-----------------------|-----------------|-----------------------|--|--|
| Temp. (°C) | Low C | hannel | High Channel | | | |
| Temp. (C) | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) | | |
| -20 | 1715.45780 | 0.002 | 1750.35790 | 0.001 | | |
| 20 | 1715.55380 | -0.002 | 1750.35790 | -0.001 | | |
| 50 | 1715.45780 | -0.002 | 1750.35790 | -0.001 | | |

| | LTE Band 12 Channel Bandwidth: 10 MHz | | | | | | |
|------------|---------------------------------------|-----------------------|-----------------|-----------------------|--|--|--|
| Temp. (°C) | Low C | hannel | High Channel | | | | |
| Temp. (C) | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) | | | |
| -20 | 704.45780 | 0.002 | 711.35790 | 0.001 | | | |
| 20 | 704.45380 | -0.002 | 711.35690 | -0.001 | | | |
| 50 | 704.45780 | -0.002 | 711.35790 | -0.001 | | | |





Report No.: AAEMT/EMC/210901-01-07

5.3 OCCUPIED BANDWIDTH MEASUREMENT

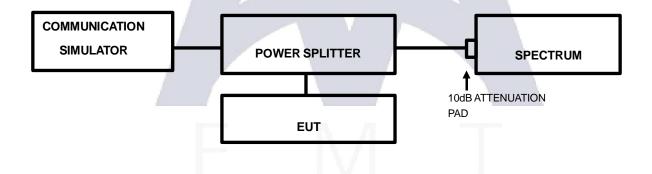
5.3.1 Limits of Occupied Bandwidth Measurement

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

5.3.2 TEST PROCEDURES

- a. The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- b. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

5.3.3 TEST SETUP







Report No.: AAEMT/EMC/210901-01-07

5.3.4 TEST RESULTS

| | LTE Band 4 Channel Bandwidth: 10 MHz | | | | | | |
|-------------------|--------------------------------------|-------------------------------|--|--|--|--|--|
| Channel Frequency | | 99 % Occupied Bandwidth (MHz) | | | | | |
| Channel | (MHz) | QPSK | | | | | |
| 20000 | 1715 | 2.431 | | | | | |
| 20175 | 1732.5 | 2.402 | | | | | |
| 20350 | 1750 | 2.431 | | | | | |

| | LTE Band 12 Channel Bandwidth: 10 MHz | | | | | |
|---------|---------------------------------------|-------------------------|--|--|--|--|
| | Frequency | 99 % Occupied Bandwidth | | | | |
| Channel | (MHz) | QPSK | | | | |
| 23060 | 704 | 2.460 | | | | |
| 23095 | 707.5 | 2.749 | | | | |
| 23130 | 711 | 2.547 | | | | |

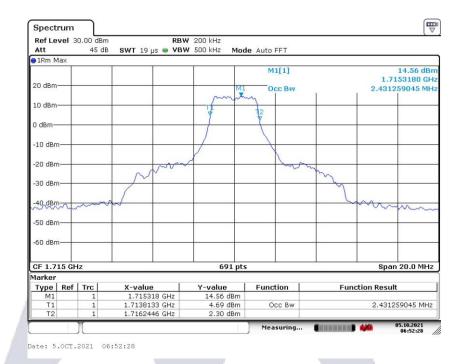




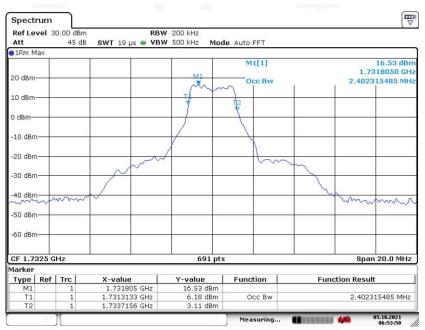
Report No.: AAEMT/EMC/210901-01-07

Band 4

1715MHz



1732.5MHz



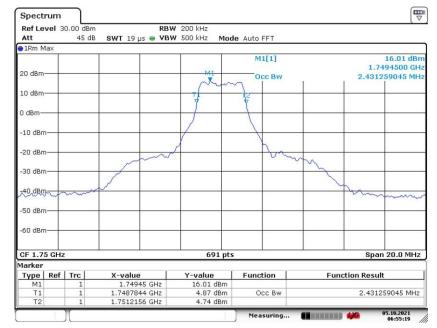
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Report No.: AAEMT/EMC/210901-01-07

1750MHz



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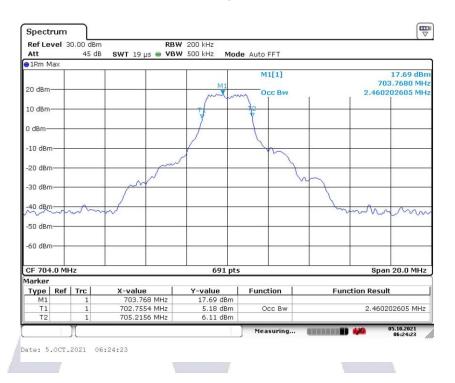




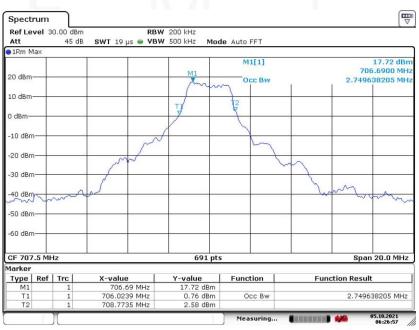
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Band 12

704MHz



707.5MHz



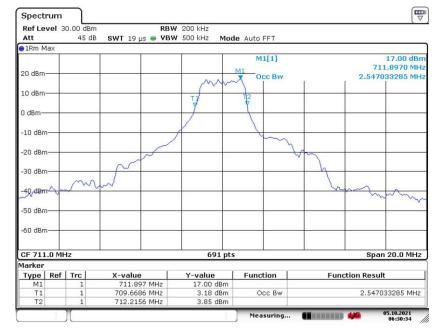
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Report No.: AAEMT/EMC/210901-01-07

711MHz



Date: 5.0CT.2021 06:30:34





Report No.: AAEMT/EMC/210901-01-07

5.4 BAND EDGE MEASUREMENT

5.4.1LIMITS OF BAND EDGE MEASUREMENT

For operations in the 698-787 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater.

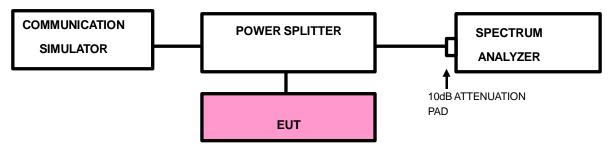
However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB.

On all frequencies between 763-775 MHz and 793-805 MHz, by a factor no less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.

For operations in the 1710–1755 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P) dB$.

5.4.2TEST SETUP



5.4.3TEST PROCEDURES

- a. All measurements were done at low and high operational frequency range.
- b. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 20 KHz and VBW of the spectrum is 100 kHz. (LTE bandwidth 1.4MHz)
- C. Record the max trace plot into the test report.





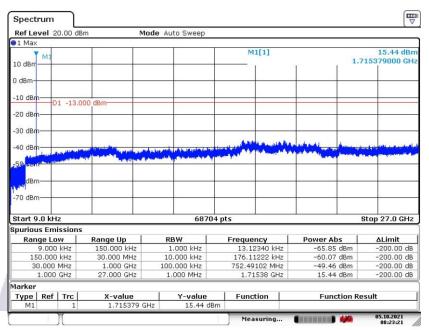
Report No.: AAEMT/EMC/210901-01-07

6.5.4. TEST RESULTS

LTE Band 4

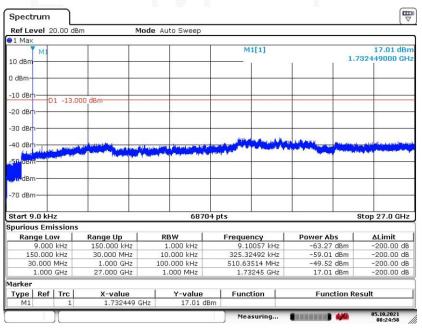
Channel Bandwidth: 10 MHz

1715MHz



Date: 5.0CT.2021 08:23:21

1732.5MHZ



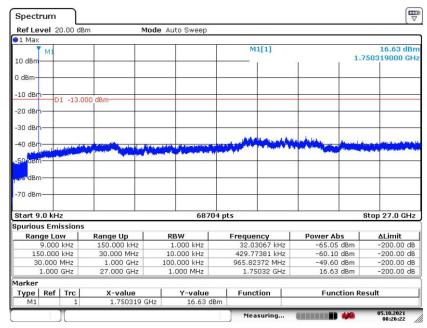
Date: 5.0CT.2021 08:24:58





Report No.: AAEMT/EMC/210901-01-07

1750MHz

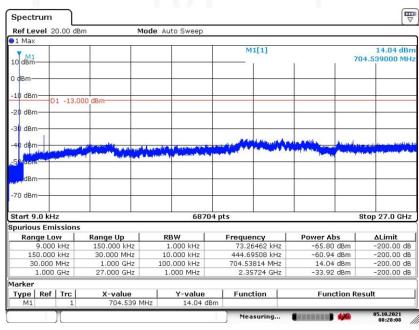


Date: 5.0CT.2021 08:26:21

LTE Band 12

Channel Bandwidth: 10 MHz

704MHz



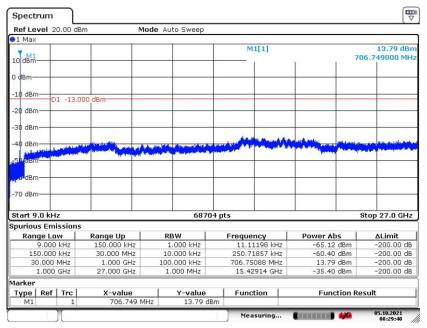
Date: 5.0CT.2021 08:28:08





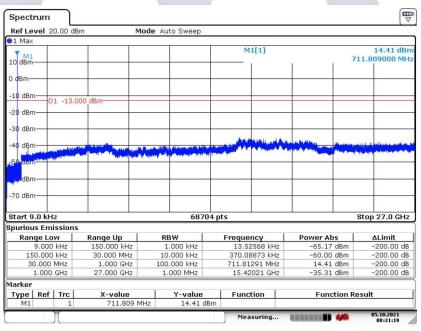
Report No.: AAEMT/EMC/210901-01-07

707.5MHz



Date: 5.0CT.2021 08:29:40

711MHz



Date: 5.0CT.2021 08:31:18





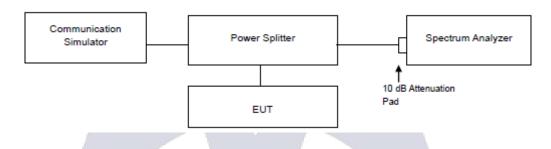
Report No.: AAEMT/EMC/210901-01-07

5.5 PEAK TO AVERAGE RATIO

5.3.5 Limits of Peak to Average Ratio Measurement

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

5.3.6 Test Setup



5.3.7 Test Procedures

- 1. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- 2. Set the number of counts to a value that stabilizes the measured CCDF curve;
- 3. Record the maximum PAPR level associated with a probability of 0.1 %.





Report No.: AAEMT/EMC/210901-01-07

5.3.8 Test Result

| LTE Band 4 Channel Bandwidth: 10 MHz | | | | | | |
|--------------------------------------|--------|-----------------------|--|--|--|--|
| Channel Frequency | | Peak to Average Ratio | | | | |
| Channel | (MHz) | QPSK | | | | |
| 20000 | 1715 | 8.18 | | | | |
| 20175 | 1732.5 | 5.25 | | | | |
| 20350 | 1750 | 5.23 | | | | |

| LTE Band 12 Channel Bandwidth: 10 MHz | | | | | |
|---------------------------------------|-------|-----------------------|--|--|--|
| Channel Frequency | | Peak to Average Ratio | | | |
| Channel | (MHz) | QPSK | | | |
| 23060 | 704 | 6.58 | | | |
| 23095 | 707.5 | 6.19 | | | |
| 23130 | 711 | 4.49 | | | |

Band 4

1715MHz







Report No.: AAEMT/EMC/210901-01-07

1732.5MHz



1750MHz



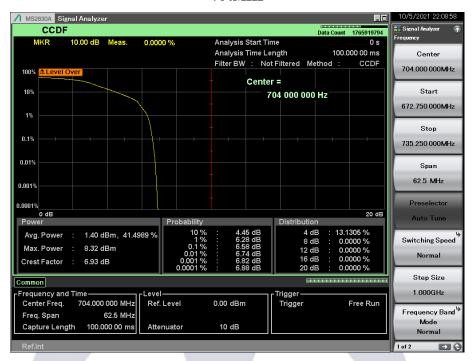




Report No.: AAEMT/EMC/210901-01-07

Band12

704MHz



707.5MHz







Report No.: AAEMT/EMC/210901-01-07

711MHz







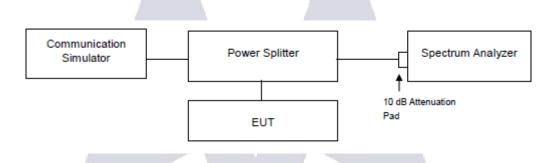
Report No.: AAEMT/EMC/210901-01-07

5.4 Conducted Spurious Emissions

5.4.1 Limits of Conducted Spurious Emissions Measurement

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

5.4.2 Test Setup



5.4.3 Test Procedure

- a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- Measuring frequency range is from 9 kHz to 1 GHz. 10 dB attenuation pad is connected with spectrum.
 RBW = 100 kHz and VBW = 300 kHz is used for conducted emission measurement.
- c. Measuring frequency range is from 1 GHz to 27 GHz. 10 dB attenuation pad is connected with spectrum. RBW = 1 MHz and VBW = 3 MHz is used for conducted emission measurement.





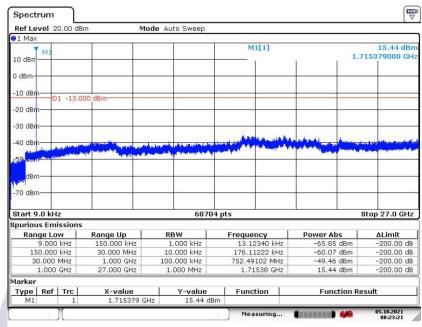
Report No.: AAEMT/EMC/210901-01-07

5.4.4 Test Results

LTE Band 4

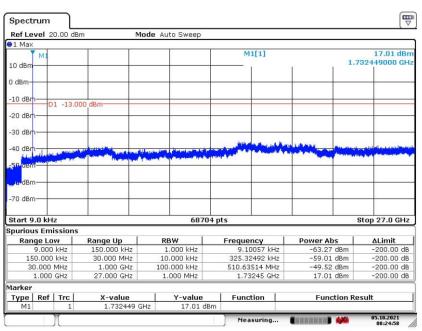
Channel Bandwidth: 10 MHz

1715MHz



Date: 5.0CT.2021 08:23:21

1732.5MHz



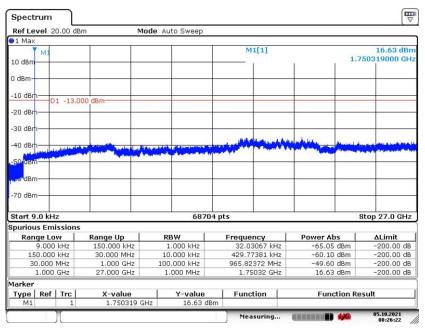
Date: 5.0CT.2021 08:24:58





Report No.: AAEMT/EMC/210901-01-07

1750MHz

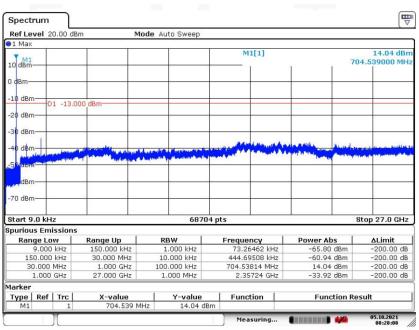


Date: 5.0CT.2021 08:26:21

LTE Band 12

Channel Bandwidth: 10 MHz

704MHz



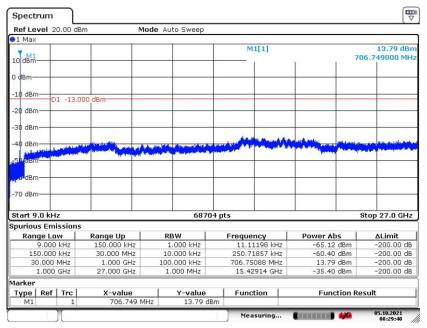
Date: 5.0CT.2021 08:28:08





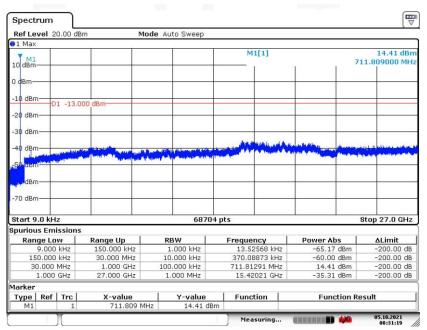
Report No.: AAEMT/EMC/210901-01-07

707.5MHz



Date: 5.0CT.2021 08:29:40

711MHz



Date: 5.0CT.2021 08:31:18





Report No.: AAEMT/EMC/210901-01-07

5.5 Radiated Emission Measurement

5.5.1 Limits of Radiated Emission Measurement

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

5.5.2 Test Procedure

- 1. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- 2. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G.
- 3. EIRP = Output power level of S.G TX cable loss + Antenna gain
- 4. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.R.P power 2.15 dB

NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz.

4.5.1 Deviation from Test Standard

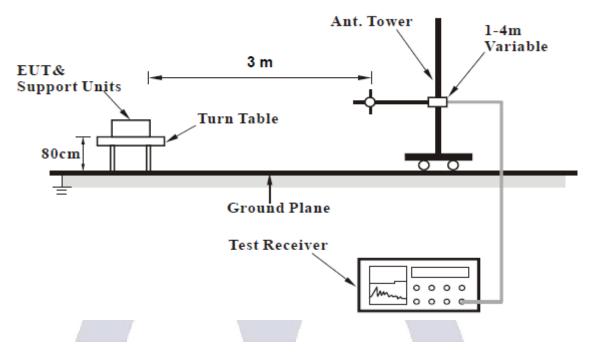
No deviation.



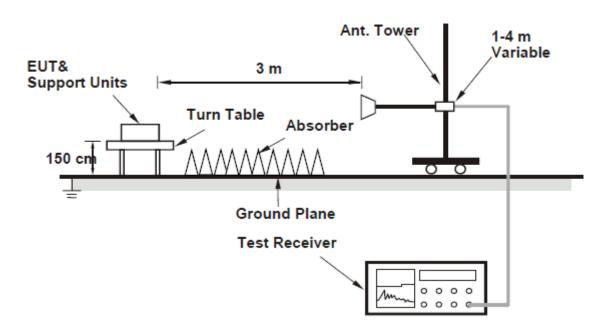
Report No.: AAEMT/EMC/210901-01-07

5.5.3 Test Setup

< Radiated Emission below or equal 1 GHz>



< Radiated Emission above 1 GHz>







Report No.: AAEMT/EMC/210901-01-07

5.5.4 Test Results

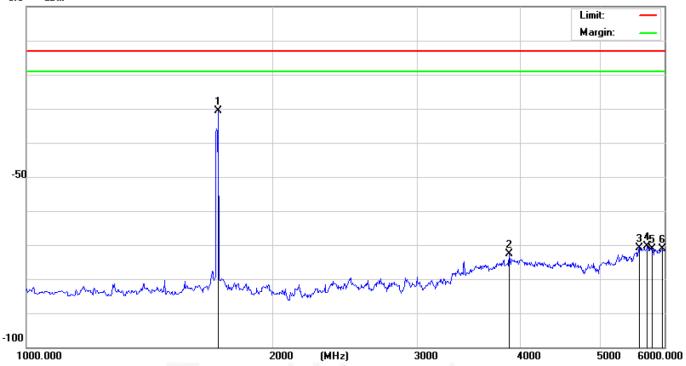
LTE Band 4

Channel Bandwidth: 10 MHz/QPSK

1715MHz

Vertical

0.0 dBm



| No. | Mk | . Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|-----|----|----------|------------------|-------------------|------------------|--------|--------|----------|
| | | MHz | dBm | dB | dBm | dB | dB | Detector |
| 1 | * | 1715.000 | -21.62 | -8.90 | -30.52 | -13.00 | -17.52 | peak |
| 2 | | 3880.000 | -66.99 | -5.57 | -72.56 | -13.00 | -59.56 | peak |
| 3 | | 5595.000 | -67.01 | -3.83 | -70.84 | -13.00 | -57.84 | peak |
| 4 | | 5725.000 | -66.99 | -3.49 | -70.48 | -13.00 | -57.48 | peak |
| 5 | | 5805.000 | -67.81 | -3.27 | -71.08 | -13.00 | -58.08 | peak |
| 6 | | 5965.000 | -68.29 | -2.84 | -71.13 | -13.00 | -58.13 | peak |



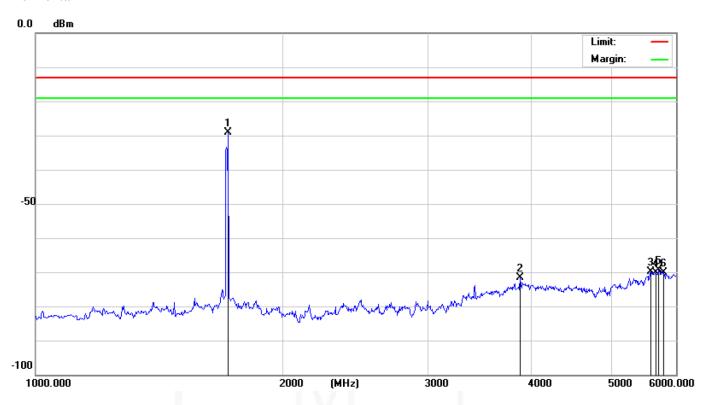


Report No.: AAEMT/EMC/210901-01-07

LTE Band 4

Channel Bandwidth: 10 MHz/QPSK

1715MHz Horizontal



| No. | Mk | . Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|-----|----|----------|------------------|-------------------|------------------|--------|--------|----------|
| | | MHz | dBm | dB | dBm | dB | dB | Detector |
| 1 | * | 1715.000 | -20.12 | -8.90 | -29.02 | -13.00 | -16.02 | peak |
| 2 | | 3880.000 | -65.99 | -5.57 | -71.56 | -13.00 | -58.56 | peak |
| 3 | | 5595.000 | -66.01 | -3.83 | -69.84 | -13.00 | -56.84 | peak |
| 4 | | 5675.000 | -66.56 | -3.62 | -70.18 | -13.00 | -57.18 | peak |
| 5 | | 5725.000 | -65.99 | -3.49 | -69.48 | -13.00 | -56.48 | peak |
| 6 | | 5805.000 | -66.81 | -3.27 | -70.08 | -13.00 | -57.08 | peak |





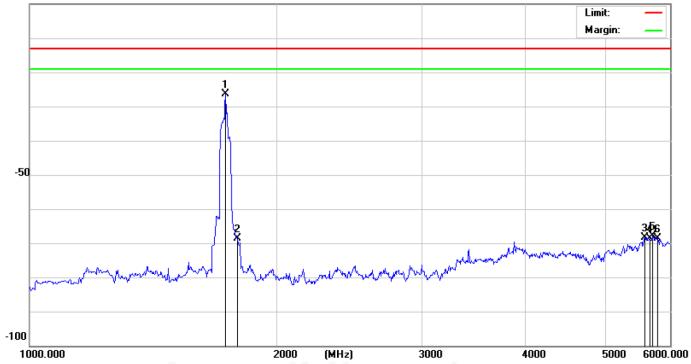
Report No.: AAEMT/EMC/210901-01-07

LTE Band 4

Channel Bandwidth: 10 MHz/QPSK

1732.5MHz Vertical





| No. | Mk | c. Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|-----|----|----------|------------------|-------------------|------------------|--------|--------|----------|
| | | MHz | dBm | dB | dBm | dB | dB | Detector |
| 1 | * | 1730.272 | -17.53 | -8.90 | -26.43 | -13.00 | -13.43 | peak |
| 2 | | 1790.190 | -59.69 | -8.92 | -68.61 | -13.00 | -55.61 | peak |
| 3 | | 5595.000 | -64.51 | -3.83 | -68.34 | -13.00 | -55.34 | peak |
| 4 | | 5675.000 | -65.06 | -3.62 | -68.68 | -13.00 | -55.68 | peak |
| 5 | | 5725.000 | -64.49 | -3.49 | -67.98 | -13.00 | -54.98 | peak |
| 6 | | 5805.000 | -65.31 | -3.27 | -68.58 | -13.00 | -55.58 | peak |



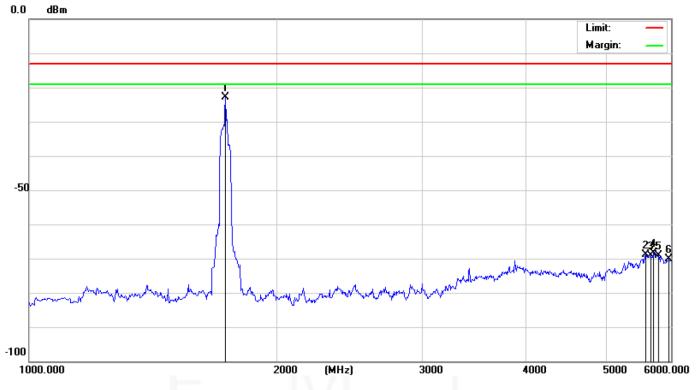


Report No.: AAEMT/EMC/210901-01-07

LTE Band 4

Channel Bandwidth: 10 MHz/QPSK

1732.5MHz Horizontal



| No. | Mk | . Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|-----|----|----------|------------------|-------------------|------------------|--------|--------|----------|
| | | MHz | dBm | dB | dBm | dB | dB | Detector |
| 1 | * | 1730.272 | -14.03 | -8.90 | -22.93 | -13.00 | -9.93 | peak |
| 2 | | 5595.000 | -65.01 | -3.83 | -68.84 | -13.00 | -55.84 | peak |
| 3 | | 5675.000 | -65.56 | -3.62 | -69.18 | -13.00 | -56.18 | peak |
| 4 | | 5725.000 | -64.99 | -3.49 | -68.48 | -13.00 | -55.48 | peak |
| 5 | | 5805.000 | -65.81 | -3.27 | -69.08 | -13.00 | -56.08 | peak |
| 6 | | 5965.000 | -67.29 | -2.84 | -70.13 | -13.00 | -57.13 | peak |



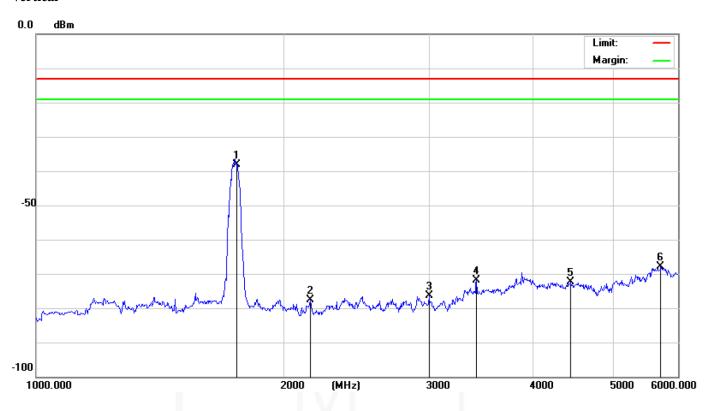


Report No.: AAEMT/EMC/210901-01-07

LTE Band 4

Channel Bandwidth: 10 MHz/QPSK

1750MHz Vertical



| No. | Mk | c. Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|-----|----|----------|------------------|-------------------|------------------|--------|--------|----------|
| | | MHz | dBm | dB | dBm | dB | dB | Detector |
| 1 | * | 1750.000 | -29.29 | -8.91 | -38.20 | -13.00 | -25.20 | peak |
| 2 | | 2150.000 | -68.57 | -9.17 | -77.74 | -13.00 | -64.74 | peak |
| 3 | | 2995.000 | -67.15 | -9.13 | -76.28 | -13.00 | -63.28 | peak |
| 4 | | 3420.000 | -64.80 | -7.03 | -71.83 | -13.00 | -58.83 | peak |
| 5 | | 4450.000 | -65.46 | -6.96 | -72.42 | -13.00 | -59.42 | peak |
| 6 | | 5725.000 | -64.49 | -3.49 | -67.98 | -13.00 | -54.98 | peak |





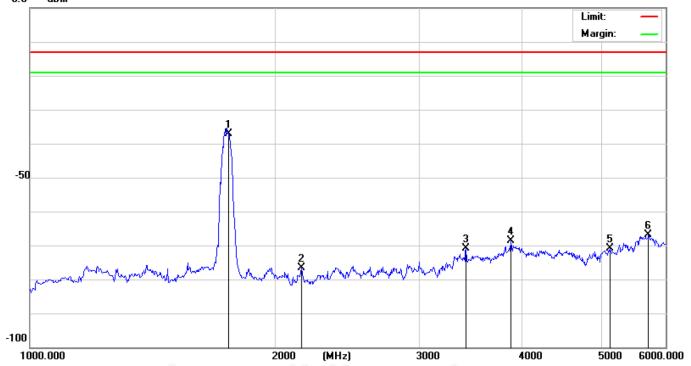
Report No.: AAEMT/EMC/210901-01-07

LTE Band 4

Channel Bandwidth: 10 MHz/QPSK

1750MHz Horizontal

0.0 dBm



| No. | Mk | c. Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|-----|----|----------|------------------|-------------------|------------------|--------|--------|----------|
| | | MHz | dBm | dB | dBm | dB | dB | Detector |
| 1 | * | 1750.000 | -28.29 | -8.91 | -37.20 | -13.00 | -24.20 | peak |
| 2 | | 2150.000 | -67.57 | -9.17 | -76.74 | -13.00 | -63.74 | peak |
| 3 | | 3420.000 | -63.80 | -7.03 | -70.83 | -13.00 | -57.83 | peak |
| 4 | | 3880.000 | -62.99 | -5.57 | -68.56 | -13.00 | -55.56 | peak |
| 5 | | 5130.000 | -63.05 | -7.83 | -70.88 | -13.00 | -57.88 | peak |
| 6 | | 5725.000 | -63.49 | -3.49 | -66.98 | -13.00 | -53.98 | peak |





Report No.: AAEMT/EMC/210901-01-07

LTE Band 12

Channel Bandwidth: 10 MHz/QPSK

704MHz Vertical



| | | | | 10.70 | | | | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
| | | MHz | dBm | dB | dBm | dB | dB | Detector |
| 1 | | 35.8200 | -50.92 | -15.96 | -66.88 | -13.00 | -53.88 | peak |
| 2 | | 73.6500 | -44.40 | -17.65 | -62.05 | -13.00 | -49.05 | peak |
| 3 | | 227.8798 | -47.57 | -13.73 | -61.30 | -13.00 | -48.30 | peak |
| 4 | 4 | 470.3799 | -53.37 | -6.76 | -60.13 | -13.00 | -47.13 | peak |
| 5 | * | 704.0000 | -25.13 | -2.25 | -27.38 | -13.00 | -14.38 | peak |
| 6 | (| 929.1900 | -52.67 | 2.53 | -50.14 | -13.00 | -37.14 | peak |





Report No.: AAEMT/EMC/210901-01-07

LTE Band 12

Channel Bandwidth: 10 MHz/QPSK

704MHz Horizontal



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|
| | | MHz | dBm | dB | dBm | dB | dB | Detector |
| 1 | | 35.8200 | -50.42 | -15.96 | -66.38 | -13.00 | -53.38 | peak |
| 2 | | 73.6500 | -43.40 | -17.65 | -61.05 | -13.00 | -48.05 | peak |
| 3 | | 227.8798 | -46.57 | -13.73 | -60.30 | -13.00 | -47.30 | peak |
| 4 | | 470.3799 | -51.37 | -6.76 | -58.13 | -13.00 | -45.13 | peak |
| 5 | * | 704.0000 | -27.13 | -2.25 | -29.38 | -13.00 | -16.38 | peak |
| 6 | | 929.1900 | -51.67 | 2.53 | -49.14 | -13.00 | -36.14 | peak |





Report No.: AAEMT/EMC/210901-01-07

LTE Band 12

Channel Bandwidth: 10 MHz/QPSK

707.5MHz Vertical



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|-----|-----|---------|------------------|-------------------|------------------|--------|--------|----------|
| | | MHz | dBm | dB | dBm | dB | dB | Detector |
| 1 | 2 | 27.8797 | -41.82 | -13.73 | -55.55 | -13.00 | -42.55 | peak |
| 2 | 6 | 32.3700 | -50.41 | -3.32 | -53.73 | -13.00 | -40.73 | peak |
| 3 | * 7 | 07.0596 | -18.54 | -2.22 | -20.76 | -13.00 | -7.76 | peak |
| 4 | 7 | 80.7798 | -50.05 | -1.48 | -51.53 | -13.00 | -38.53 | peak |
| 5 | 8 | 01.1499 | -52.09 | -1.25 | -53.34 | -13.00 | -40.34 | peak |
| 6 | 9 | 43.7400 | -53.14 | 2.52 | -50.62 | -13.00 | -37.62 | peak |





Report No.: AAEMT/EMC/210901-01-07

LTE Band 12

Channel Bandwidth: 10 MHz/QPSK

707.5MHz Horizontal



| No. | Mk | . Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|-----|----|----------|------------------|-------------------|------------------|--------|--------|----------|
| | | MHz | dBm | dB | dBm | dB | dB | Detector |
| 1 | | 227.8797 | -43.82 | -13.73 | -57.55 | -13.00 | -44.55 | peak |
| 2 | | 632.3700 | -53.41 | -3.32 | -56.73 | -13.00 | -43.73 | peak |
| 3 | * | 707.0596 | -23.54 | -2.22 | -25.76 | -13.00 | -12.76 | peak |
| 4 | | 780.7798 | -52.55 | -1.48 | -54.03 | -13.00 | -41.03 | peak |
| 5 | | 801.1499 | -54.59 | -1.25 | -55.84 | -13.00 | -42.84 | peak |
| 6 | | 943.7400 | -54.14 | 2.52 | -51.62 | -13.00 | -38.62 | peak |





Report No.: AAEMT/EMC/210901-01-07

LTE Band 12

Channel Bandwidth: 10 MHz/QPSK

711MHz Vertical



| No. Mk. Freq. Reading Level Correct Factor Measurement Limit Over 1 456.8000 -51.46 -7.11 -58.57 -13.00 -45.57 peak 2 * 710.9400 -21.80 -2.18 -23.98 -13.00 -10.98 peak 3 738.1000 -54.43 -1.91 -56.34 -13.00 -43.34 peak 4 789.5099 -55.65 -1.40 -57.05 -13.00 -44.05 peak 5 875.8400 -60.08 1.65 -58.43 -13.00 -45.43 peak 6 945.6798 -48.99 2.51 -46.48 -13.00 -33.48 peak | | | | | 10.0 | | | | |
|---|-----|-----|----------|--------|-------|--------|--------|--------|----------|
| 1 456.8000 -51.46 -7.11 -58.57 -13.00 -45.57 peak 2 * 710.9400 -21.80 -2.18 -23.98 -13.00 -10.98 peak 3 738.1000 -54.43 -1.91 -56.34 -13.00 -43.34 peak 4 789.5099 -55.65 -1.40 -57.05 -13.00 -44.05 peak 5 875.8400 -60.08 1.65 -58.43 -13.00 -45.43 peak | No. | Mk. | Freq. | • | | | | Over | |
| 2 * 710.9400 -21.80 -2.18 -23.98 -13.00 -10.98 peak 3 738.1000 -54.43 -1.91 -56.34 -13.00 -43.34 peak 4 789.5099 -55.65 -1.40 -57.05 -13.00 -44.05 peak 5 875.8400 -60.08 1.65 -58.43 -13.00 -45.43 peak | | | MHz | dBm | dB | dBm | dB | dB | Detector |
| 3 738.1000 -54.43 -1.91 -56.34 -13.00 -43.34 peak 4 789.5099 -55.65 -1.40 -57.05 -13.00 -44.05 peak 5 875.8400 -60.08 1.65 -58.43 -13.00 -45.43 peak | 1 | 4 | 456.8000 | -51.46 | -7.11 | -58.57 | -13.00 | -45.57 | peak |
| 4 789.5099 -55.65 -1.40 -57.05 -13.00 -44.05 peak 5 875.8400 -60.08 1.65 -58.43 -13.00 -45.43 peak | 2 | * | 710.9400 | -21.80 | -2.18 | -23.98 | -13.00 | -10.98 | peak |
| 5 875.8400 -60.08 1.65 -58.43 -13.00 -45.43 peak | 3 | - | 738.1000 | -54.43 | -1.91 | -56.34 | -13.00 | -43.34 | peak |
| | 4 | • | 789.5099 | -55.65 | -1.40 | -57.05 | -13.00 | -44.05 | peak |
| 6 945.6798 -48.99 2.51 -46.48 -13.00 -33.48 peak | 5 | (| 875.8400 | -60.08 | 1.65 | -58.43 | -13.00 | -45.43 | peak |
| | 6 | , | 945.6798 | -48.99 | 2.51 | -46.48 | -13.00 | -33.48 | peak |





Report No.: AAEMT/EMC/210901-01-07

LTE Band 12

Channel Bandwidth: 10 MHz/QPSK

711MHz Horizontal



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|-----|-----|---------|------------------|-------------------|------------------|--------|--------|----------|
| | | MHz | dBm | dB | dBm | dB | dB | Detector |
| 1 | 6 | 41.1000 | -53.93 | -3.19 | -57.12 | -13.00 | -44.12 | peak |
| 2 | * 7 | 10.9400 | -23.80 | -2.18 | -25.98 | -13.00 | -12.98 | peak |
| 3 | 7 | 38.1000 | -52.43 | -1.91 | -54.34 | -13.00 | -41.34 | peak |
| 4 | 7 | 89.5099 | -53.65 | -1.40 | -55.05 | -13.00 | -42.05 | peak |
| 5 | 8 | 75.8400 | -59.08 | 1.65 | -57.43 | -13.00 | -44.43 | peak |
| 6 | 9 | 45.6798 | -49.99 | 2.51 | -47.48 | -13.00 | -34.48 | peak |
| | | | | | | | | |

** END OF REPORT**