FCC 47 CFR PART 15 SUBPART C

TEST REPORT

For

TITAN 10

Model: GT1000 2D

Trade Name: Amobile Intelligent Corp

Issued to

AMobile Intelligent Corp.

18F,-1, No.150, Jian 1st Rd., Zhong He Dist., New Taipei City 235, Taiwan

Issued by

Compliance Certification Services Inc.
No.11, Wugong 6th Rd., Wugu Dist.,
New Taipei City 24891, Taiwan. (R.O.C.)
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service@ccsrf.com

Issued Date: September 1, 2015





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Report No.: T150722D18-RP3

Revision History

| Rev. | Issue Date | Revisions | Effect Page | Revised By |
|------|-------------------|---------------|-------------|------------|
| 00 | September 1, 2015 | Initial Issue | ALL | Becca Chen |

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1. TEST RESULT CERTIFICATION

Applicant: AMobile Intelligent Corp.

18F,-1, No.150, Jian 1st Rd., Zhong He Dist., New Taipei City

235, Taiwan

Equipment Under Test: TITAN 10

Trade Name:
Model: GT1000 2D

Date of Test: July 6 ~ 26, 2015

| APPLICABLE STANDARDS | | | |
|------------------------------|-------------------------|--|--|
| STANDARD TEST RESULT | | | |
| FCC 47 CFR Part 15 Subpart C | No non-compliance noted | | |

We hereby certify that:

Villa Loo

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in **ANSI C63.10: 2013** and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15.207, 15.209, 15.247.

The test results of this report relate only to the tested sample EUT identified in this report.

Approved by:

Reviewed by:

Miller Lee Manager

Compliance Certification Services Inc.

Angel Cheng Section Manager

Compliance Certification Services Inc.

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2. EUT DESCRIPTION

| Product | TITAN 10 | |
|-----------------------|--|--|
| Trade Name | AMOBILE Intelligent Corp. | |
| Model Number | GT1000 2D | |
| Model Discrepancy | N/A | |
| Received Date | July 22, 2015 | |
| Power Ratting | Powered from Adapter Zzu / ZZU1001-200050U I/P: 100-240Vac, 50/60Hz, Max: 0.5A O/P: 5Vdc, 2.0A Powered from Rechargeable Li-ion Battery ARBOR / GT1000 Rating: 3.8Vdc, 9300mAh, 35.34Wh | |
| Frequency Range | 2402MHz ~ 2480MHz | |
| Transmit Power | -1.31 dBm | |
| Modulation Technique | GFSK (1Mbps) | |
| Number of Channels | 40 Channels | |
| Antenna Specification | SHENZHEN SAN MIKI ELECTRONICS CO.,LTD / P1021 PIFA Antenna / 3.25dBi | |

Remark:

- 1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.
- 2. This submittal(s) (test report) is intended for **FCC ID**: <u>2ACC5-GT10</u> filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.

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3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10: 2013 and FCC CFR 47 Part 15.207, 15.209, 15.247 and DA00-705.

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

According to the requirements ANSI C63.10: 2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 1.5 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements ANSI C63.10: 2013.

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3.4 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|----------------------------|---------------------|-----------------|------------------|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| ¹ 0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614 | 5.35 - 5.46 |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | 7.25 - 7.75 |
| 4.125 - 4.128 | 25.5 - 25.67 | 1300 - 1427 | 8.025 - 8.5 |
| 4.17725 - 4.17775 | 37.5 - 38.25 | 1435 - 1626.5 | 9.0 - 9.2 |
| 4.20725 - 4.20775 | 73 - 74.6 | 1645.5 - 1646.5 | 9.3 - 9.5 |
| 6.215 - 6.218 | 74.8 - 75.2 | 1660 - 1710 | 10.6 - 12.7 |
| 6.26775 - 6.26825 | 108 - 121.94 | 1718.8 - 1722.2 | 13.25 - 13.4 |
| 6.31175 - 6.31225 | 123 - 138 | 2200 - 2300 | 14.47 - 14.5 |
| 8.291 - 8.294 | 149.9 - 150.05 | 2310 - 2390 | 15.35 - 16.2 |
| 8.362 - 8.366 | 156.52475 - | 2483.5 - 2500 | 17.7 - 21.4 |
| 8.37625 - 8.38675 | 156.52525 | 2655 - 2900 | 22.01 - 23.12 |
| 8.41425 - 8.41475 | 156.7 - 156.9 | 3260 - 3267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 162.0125 - 167.17 | 3332 - 3339 | 31.2 - 31.8 |
| 12.51975 - 12.52025 | 167.72 - 173.2 | 3345.8 - 3358 | 36.43 - 36.5 |
| 12.57675 - 12.57725 | 240 - 285 | 3600 - 4400 | (²) |
| 13.36 - 13.41 | 322 - 335.4 | | |

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

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² Above 38.6

⁽b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

3.5 DESCRIPTION OF TEST MODES

The EUT (model: GT1000) had been tested under operating condition.

Software used to control the EUT for staying in continuous transmitting mode was programmed.

After verification, all tests were carried out with the worst case test modes as shown below except radiated spurious emission below 1GHz and power line conducted emissions below 30MHz, which worst case was in normal link mode only.

BT 4.0

| Tested Channel | Frequency (MHz) |
|-----------------------|-----------------|
| Low | 2402 |
| Mid | 2440 |
| High | 2480 |

The field strength of spurious emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (Y axis) and the worst case was recorded.

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4 INSTRUMENT CALIBRATION

4.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

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4.2 MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

Remark: Each piece of equipment is scheduled for calibration once a year.

| Conducted Emissions Test Site | | | | |
|-------------------------------|---------------|-----------|---------------|-----------------|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
| Spectrum Analyzer | Agilent | E4446A | US42510252 | 11/23/2015 |
| Thermostatic/Humidity Chamber | TAICHY | MHG-150LF | 930619 | 10/07/2015 |
| AC Power Source | EXTECH | 6205 | 1140845 | N.C.R |
| DC Power Supply | ABM | 8301HD | D011531 | N.C.R |
| Power Meter | Anritsu | ML2495A | 1012009 | 07/07/2016 |
| Power Sensor | Anritsu | MA2411A | 0917072 | 07/07/2016 |
| Spectrum Analyzer | ROHDE&SCHWARZ | FSV40 | 101073 | 07/19/2016 |

| Wugu 966 Chamber A | | | | | |
|--------------------|----------------------------|---------------------|---------------|-----------------|--|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due | |
| Spectrum Analyzer | Agilent | E4446A | US42510268 | 01/25/2016 | |
| EMI Test Receiver | R&S | ESCI | 100064 | 06/03/2016 | |
| Bilog Antenna | Sunol Sciences | JB3 | A030105 | 08/05/2016 | |
| Horn Antenna | EMCO | 3117 | 00055165 | 01/26/2016 | |
| Horn Antenna | EMCO | 3116 | 26370 | 12/25/2015 | |
| Turn Table | ccs | CC-T-1F | N/A | N.C.R | |
| Antenna Tower | ccs | CC-A-1F | N/A | N.C.R | |
| Controller | ccs | CC-C-1F | N/A | N.C.R | |
| Pre-Amplifier | MITEQ | 1652-3000 | 1490939 | 08/09/2016 | |
| Pre-Amplifier | EMC | EMC 012635 | 980151 | 06/04/2016 | |
| Pre-Amplifier | MITEQ | AMF-6F-260400-40-8P | 985646 | 12/25/2015 | |
| Coaxial Cable | Huber+Suhner | 102 | 29212/2 | 12/25/2015 | |
| Coaxial Cable | Huber+Suhner | 102 | 29406/2 | 12/25/2015 | |
| Test S/W | est S/W EZ-EMC (CCS-3A1RE) | | | | |

| Conducted Emission room # B | | | | |
|-----------------------------|--------------|-----------|---------------|-----------------|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
| EMI Test Receiver | R&S | ESCI | 101073 | 09/18/2015 |
| LISN | R&S | ENV216 | 101054 | 06/06/2016 |
| LISN | SCHWARZBECK | NSLK 8127 | 8127-541 | 11/25/2015 |
| Capacitive Voltage Probe | FCC | F-CVP-1 | 100185 | 03/12/2016 |
| Test S/W | CCS-3A1-CE | | | |

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

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^{2.} N.C.R. = No Calibration Request.

4.3 MEASUREMENT UNCERTAINTY

| PARAMETER | UNCERTAINTY |
|---------------------------------------|-------------|
| Powerline Conducted Emission | +/- 1.2575 |
| 3M Semi Anechoic Chamber / <200M | +/- 4.0138 |
| 3M Semi Anechoic Chamber / 200M~1000M | +/- 3.9483 |
| 3M Semi Anechoic Chamber / 1G~8G | +/- 2.5975 |
| 3M Semi Anechoic Chamber / 8G~18G | +/- 2.6112 |
| 3M Semi Anechoic Chamber / 18G~26G | +/- 2.7389 |
| 3M Semi Anechoic Chamber / 26G~40G | +/- 2.9683 |

Remark: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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5 FACILITIES AND ACCREDITATIONS 5.1 FACILITIES

| All | measurement facilities used to collect the measurement data are located at |
|-----|---|
| | No.199, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan, R.O.C. Tel: 886-2-2217-0894 / Fax: 886-2-2217-1029 |
| | No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.) Tel: 886-2-2299-9720 / Fax: 886-2-2298-4045 |
| | No.81-1, Lane 210, Bade 2nd Rd., Lujhu Township, Taoyuan County 33841, TAIWAN R.O.C. |
| | Tal. 996 2 224 0222 / Eav. 996 2 224 5225 |

Tel: 886-3-324-0332 / Fax: 886-3-324-5235

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10: 2013 and CISPR Publication 22.

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, bucolical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

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5.3 TABLE OF ACCREDITATIONS AND LISTINGS

| Country | Agency | Scope of Accreditation | Logo |
|---------|--------------------|--|------------------------------------|
| USA | FCC | 3M Semi Anechoic Chamber (FCC MRA: TW1039) to perform FCC Part 15 measurements | FCC MRA: TW1039 |
| Taiwan | TAF | LP0002, RTTE01, FCC Method-47 CFR Part 15 Subpart C, D, E, RSS-210, RSS-310 IDA TS SRD, AS/NZS 4268, AS/NZS 4771, TS 12.1 & 12,2, ETSI EN 300 440-1, ETSI EN 300 440-2, ETSI EN 300 328, ETSI EN 300 220-1, ETSI EN 300 220-2, ETSI EN 301 893, ETSI EN 301 489-1/3/7/17 FCC OET Bulletin 65 + Supplement C, EN 50360, EN 50361, EN 50371, RSS 102, EN 50383, EN 50385, EN 50392, IEC 62209, CNS 14958-1, CNS 14959 FCC Method –47 CFR Part 15 Subpart B IEC / EN 61000-3-2, IEC / EN 61000-3-3, IEC / EN 61000-4-2/3/4/5/6/8/11 | Testing Laboratory 1309 |
| Canada | Industry Canada | 3M Semi Anechoic Chamber (IC 2324G-1 / IC 2324G-2) to perform | Canada IC 2324G-1 IC 2324G-2 |

^{*} No part of this report may be used to claim or imply product endorsement by A2LA or any agency of the US Government.

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6 SETUP OF EQUIPMENT UNDER TEST

6.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix II for the actual connections between EUT and support equipment.

6.2 SUPPORT EQUIPMENT

| N | Device Type | Brand | Model | Series No. | FCC ID | Data Cable | Power Cord |
|---|-------------|-------|-------|------------|--------|------------|------------|
| | N/A | | | | | | |

Remark:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

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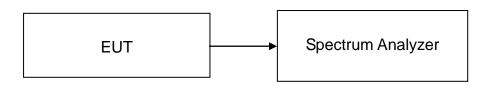
7 FCC PART 15.247 REQUIREMENTS

7.1 6DB BANDWIDTH

LIMIT

According to §15.247(a)(2), systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Configuration



TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer. Set the RBW=100kHz the emission bandwidth, VBW \geq 3 x RBW, Detector = Peak, Trace mode = max hold, Sweep = auto couple. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.

TEST RESULTS

No non-compliance noted

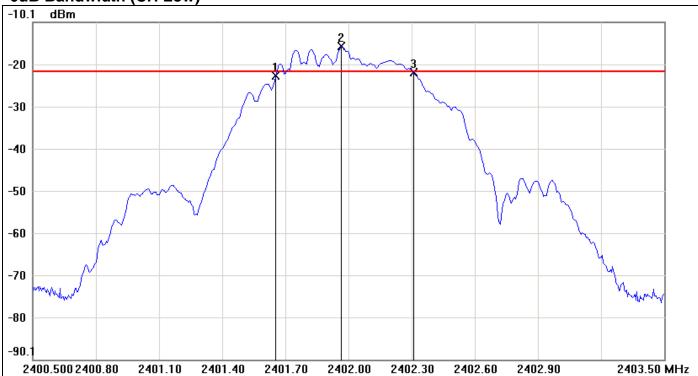
Test Data

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (kHz) | Test Result |
|---------|--------------------|------------------------|----------------|-------------|
| Low | 2402 | 0.655 | | PASS |
| Mid | 2440 | 0.655 | >500 | PASS |
| High | 2480 | 0.655 | | PASS |

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Test Plot

6dB Bandwidth (CH Low)

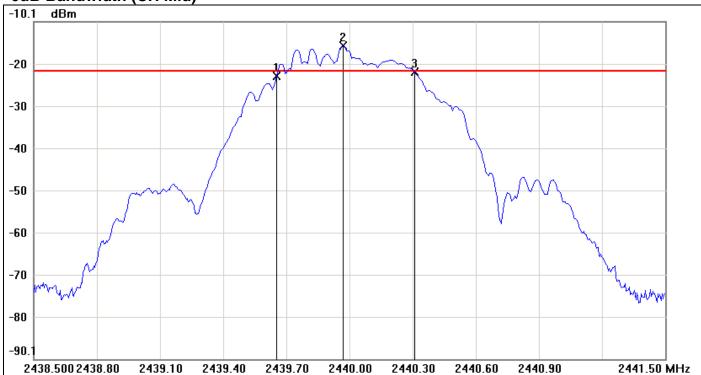


| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2401.6550 | -22.77 | -21.89 | -0.88 |
| 2 | 2401.9650 | -15.89 | -21.89 | 6.00 |
| 3 | 2402.3100 | -22.01 | -21.89 | -0.12 |

| No. | | ∆Frequency(MHz) | ∆Level(dB) | |
|-----|---------|-----------------|------------|--|
| 1 | mk3-mk1 | 0.655 | 0.76 | |

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6dB Bandwidth (CH Mid)



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2439.6550 | -22.94 | -21.90 | -1.04 |
| 2 | 2439.9700 | -15.90 | -21.90 | 6.00 |
| 3 | 2440.3100 | -22.04 | -21.90 | -0.14 |

| No. | | ∆Frequency(MHz) | ∆Level(dB) |
|-----|---------|-----------------|------------|
| 1 | mk3-mk1 | 0.655 | 0.9 |

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6dB Bandwidth (CH High)



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2479.6550 | -22.32 | -21.36 | -0.96 |
| 2 | 2479.9700 | -15.36 | -21.36 | 6.00 |
| 3 | 2480.3100 | -21.48 | -21.36 | -0.12 |

| No. | | ∆Frequency(MHz) | ∆Level(dB) | |
|-----|---------|-----------------|------------|--|
| 1 | mk3-mk1 | 0.655 | 0.84 | |

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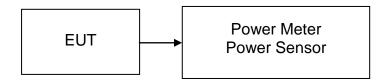
7.2 PEAK POWER

LIMIT

The maximum peak output power of the intentional radiator shall not exceed the following:

- 1. According to §15.247(b)(3), for systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz: 1 Watt.
- 2. According to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test Configuration



TEST PROCEDURE

The transmitter output is connected to the Power Meter. The Power Meter is set to the peak power detection.

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TEST RESULTS

No non-compliance noted

Test Data

| Channel | Frequency Output Power (MHz) (dBm) Output Power (W) | | Limit (W) | Test Result | |
|---------|---|-------|--------------|-------------|------|
| Low | 2402 | -1.88 | 0.0006 | | PASS |
| Mid | 2440 | -1.53 | 0.0007 | 1 | PASS |
| High | 2480 | -1.31 | 0.0007 | | PASS |

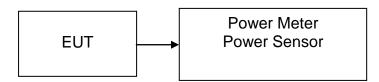
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7.3 AVERAGE POWER

LIMIT

None; for reporting purposes only.

Test Configuration



TEST PROCEDURE

The transmitter output is connected to the Power Meter. The Power Meter is set to the average power detection.

TEST RESULTS

No non-compliance noted.

Test Data

| Channel | Frequency (MHz) | Output Power (dBm) | Output Power (W) |
|---------|--------------------|--------------------|---------------------|
| Low | 2402 | -2.10 | 0.0006 |
| Mid | 2440 | -1.74 | 0.0007 |
| High | 2480 | -1.53 | 0.0007 |

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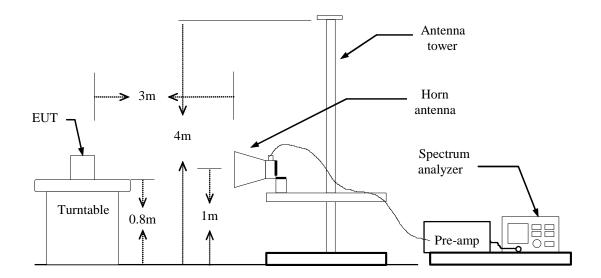
7.4 BAND EDGES MEASUREMENT

LIMIT

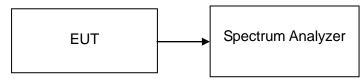
According to §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c)).

Test Configuration

For Radiated



For Conducted



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TEST PROCEDURE

For Radiated

- 1. The EUT is placed on a turntable, which is 1.5m above the ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=1MHz / VBW=3MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz / VBW= 300Hz / Sweep=AUTO
 - (c) if duty cycle≥98%, VBW=10Hz. if duty cycle<98% VBW=1/T.
 - BT4.0=61%, VBW= 2.7 KHz
- Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.

For Conducted

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 100 kHz.

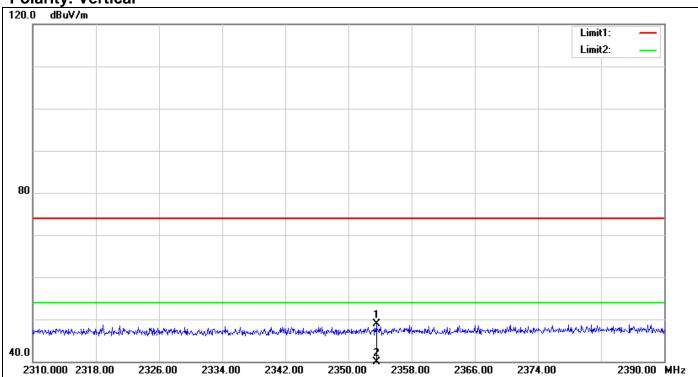
TEST RESULTS

Refer to attach spectrum analyzer data chart.

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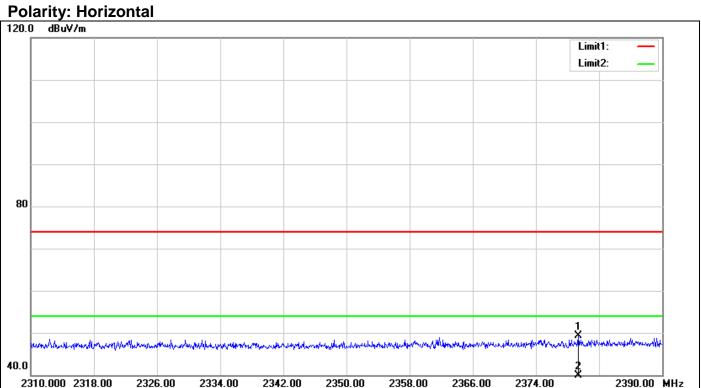
Band Edges (CH Low)

Polarity: Vertical



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Height | Degree | Remark |
|-----|-----------|---------|--------------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV) | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB) | (cm) | (°) | |
| 1 | 2353.520 | 51.78 | -2.80 | 48.98 | 74.00 | -25.02 | 100 | 82 | peak |
| 2 | 2353.520 | 39.16 | -2.80 | 36.36 | 54.00 | -17.64 | 100 | 82 | AVG |

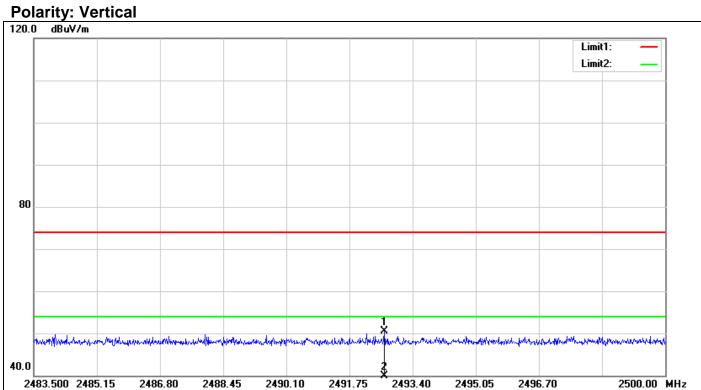
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| No. | Frequency | Reading | Correct | Result | Limit | Margin | Height | Degree | Remark |
|-----|-----------|---------|--------------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV) | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB) | (cm) | (°) | |
| 1 | 2379.360 | 51.87 | -2.58 | 49.29 | 74.00 | -24.71 | 100 | 264 | peak |
| 2 | 2379.360 | 39.17 | -2.58 | 36.59 | 54.00 | -17.41 | 100 | 264 | AVG |

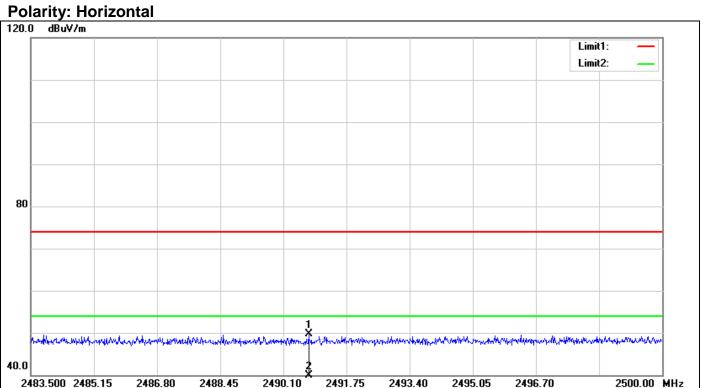
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Band Edges (CH High)



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Height | Degree | Remark |
|-----|-----------|---------|--------------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV) | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB) | (cm) | (°) | |
| 1 | 2492.657 | 52.45 | -1.91 | 50.54 | 74.00 | -23.46 | 100 | 199 | peak |
| 2 | 2492.657 | 39.01 | -1.91 | 37.10 | 54.00 | -16.90 | 100 | 199 | AVG |

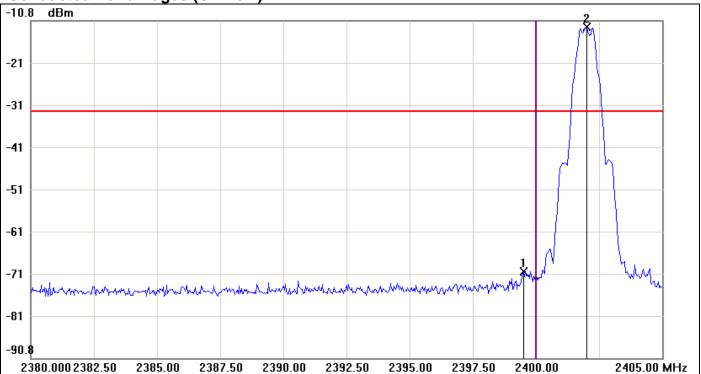
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| N | о. | Frequency | Reading | Correct | Result | Limit | Margin | Height | Degree | Remark |
|---|----|-----------|---------|--------------|----------|----------|--------|--------|--------|--------|
| | | (MHz) | (dBuV) | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB) | (cm) | (°) | |
| · | 1 | 2490.760 | 51.70 | -1.92 | 49.78 | 74.00 | -24.22 | 100 | 312 | peak |
| 2 | 2 | 2490.760 | 39.03 | -1.92 | 37.11 | 54.00 | -16.89 | 100 | 312 | AVG |

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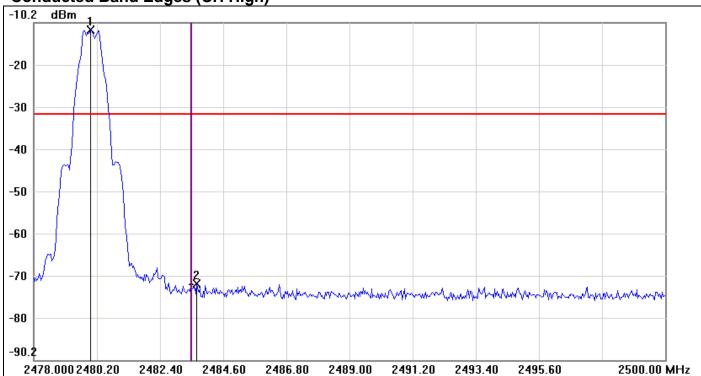
Conducted Band Edges (CH Low)



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2399.5000 | -70.22 | -32.33 | -37.89 |
| 2 | 2402.0000 | -12.33 | -32.33 | 20.00 |

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Conducted Band Edges (CH High)



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2479.9800 | -11.85 | -31.85 | 20.00 |
| 2 | 2483.6833 | -72.06 | -31.85 | -40.21 |

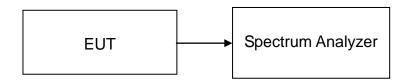
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7.5 PEAK POWER SPECTRAL DENSITY

LIMIT

- 1. According to §15.247(e), for digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.
- 2. According to §15.247(f), the digital modulation operation of the hybrid system, with the frequency hopping turned off, shall comply with the power density requirements of paragraph (d) of this section.

Test Configuration



TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. Set the RBW = 100 kHz, VBW ≥ 300 kHz, span to 1.5 times the DTS bandwidth, Detector = peak, Trace mode = max hold, Sweep = auto couple. Use the peak marker function to determine the maximum amplitude level within the RBW ¹, If measured value exceeds limit, reduce RBW (no less than 3 kHz).

TEST RESULTS

No non-compliance noted

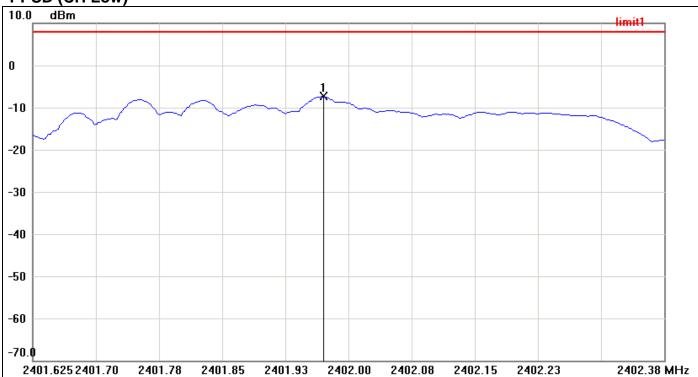
Test Data

| Channel | Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Result |
|---------|--------------------|---------------|----------------|--------|
| Low | 2402 | -7.34 | | PASS |
| Mid | 2440 | -6.67 | 8.00 | PASS |
| High | 2480 | -6.55 | | PASS |

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Test Plot

PPSD (CH Low)

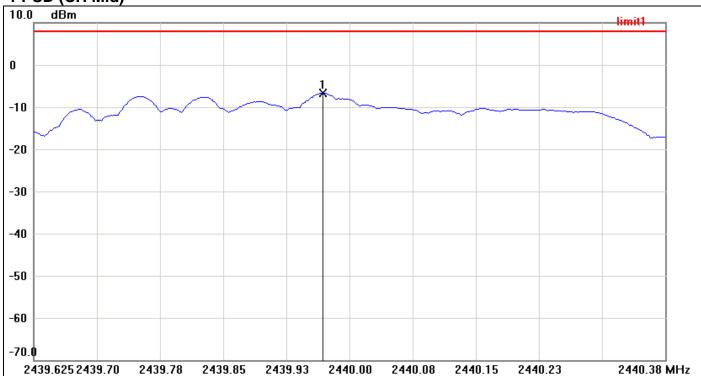


| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2401.9700 | -7.34 | 8.00 | -15.34 |

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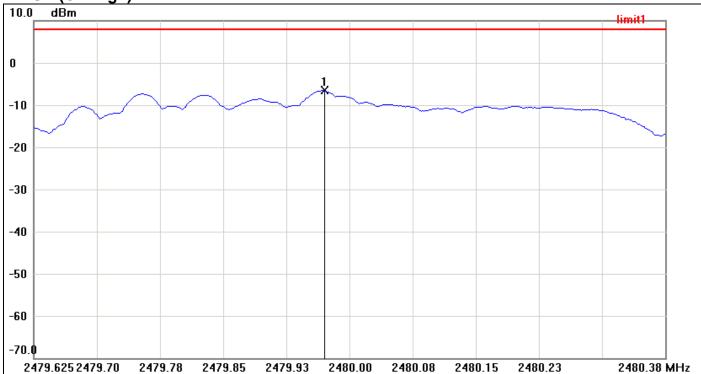
PPSD (CH Mid)



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2439.9688 | -6.67 | 8.00 | -14.67 |

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PPSD (CH High)



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2479.9700 | -6.55 | 8.00 | -14.55 |

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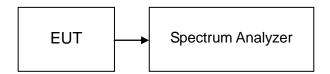
7.6 SPURIOUS EMISSIONS

7.6.1 Conducted Measurement

LIMIT

According to §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c)).

Test Configuration



TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. Set the RBW=100 kHz and VBW= 300 kHz. Investigate the frequency from 30 MHz to 26 GHz with L, M and H channels separately.

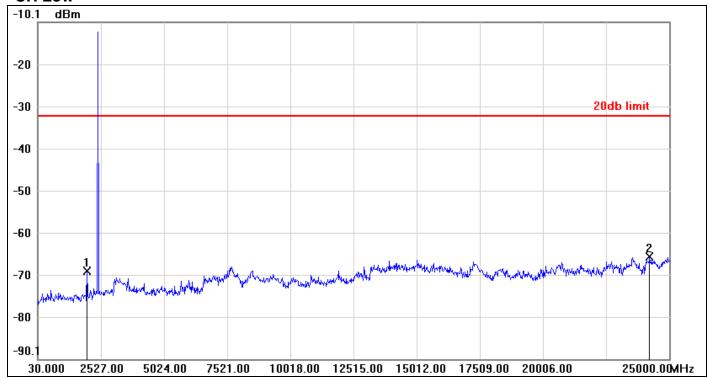
TEST RESULTS

No non-compliance noted.

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Test Plot

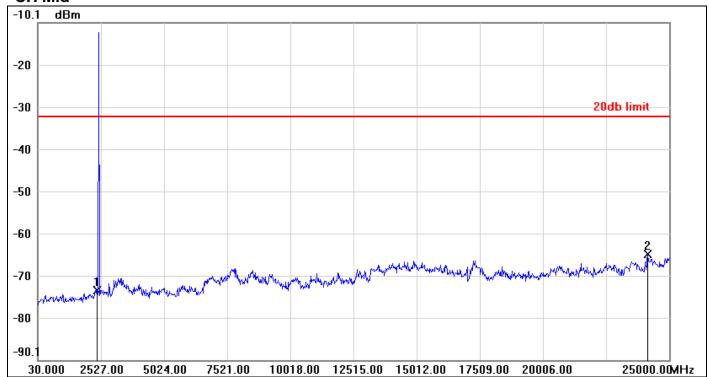
CH Low



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 1977.6600 | -69.12 | -32.38 | -36.74 |
| 2 | 24225.9300 | -65.73 | -32.38 | -33.35 |

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CH Mid

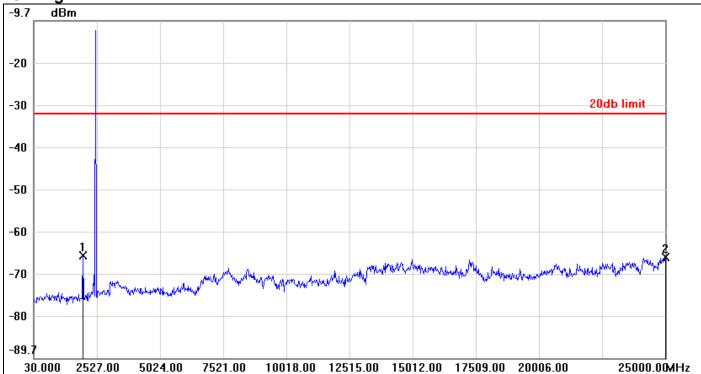


| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2377.1800 | -73.55 | -32.41 | -41.14 |
| 2 | 24151.0200 | -64.99 | -32.41 | -32.58 |

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CH High



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) | |
|-----|----------------|-------------|------------|-------------|--|
| 1 | 1977.6600 | -65.47 | -31.87 | -33.60 | |
| 2 | 25000.0000 | -65.77 | -31.87 | -33.90 | |

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7.6.2 Radiated Emissions

LIMIT

1. According to §15.209(a), except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency (MHz) | Field Strength (μV/m) | Measurement Distance (m) |
|--------------------|--------------------------|--------------------------|
| 0.009 - 0.490 | 2400/F(kHz) | 300 |
| 0.490 - 1.705 | 24000/F(kHz) | 30 |
| 1.705 – 30.0 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

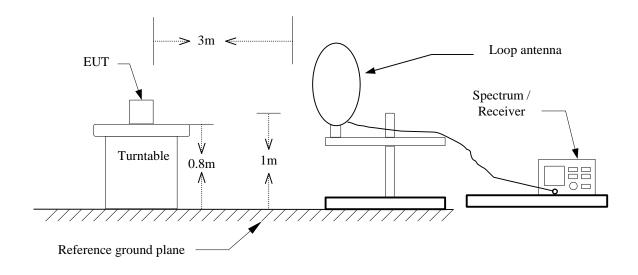
2. In the emission table above, the tighter limit applies at the band edges.

| Frequency (MHz) | Field Strength (μV/m at 3-meter) | Field Strength (dBµV/m at 3-meter) |
|--------------------|-------------------------------------|---------------------------------------|
| 0.009 - 0.490 | 2400/F(kHz) +80 | 20LOG((2400/F(kHz))+80) |
| 0.490 - 1.705 | 24000/F(kHz) +40 | 20LOG((24000/F(kHz))+40) |
| 1.705 – 30.0 | 30 | 69.54 |
| 30-88 | 100 | 40 |
| 88-216 | 150 | 43.5 |
| 216-960 | 200 | 46 |
| Above 960 | 500 | 54 |

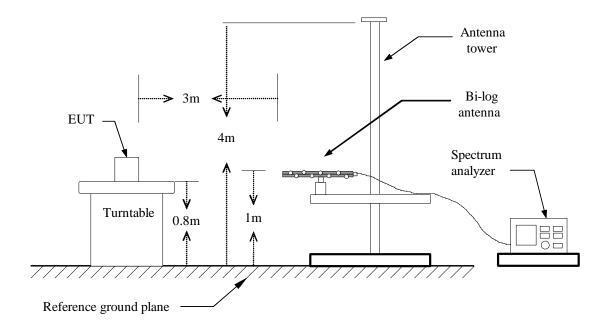
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Test Configuration

9kHz ~ 30MHz



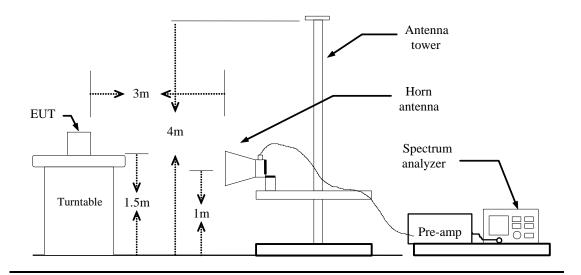
30MHz ~ 1GHz



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Above 1 GHz



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TEST PROCEDURE

- 1. The EUT is placed on a turntable, Above 1 GHz is 1.5m high and below 1 GHz is 0.8m high above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Set the spectrum analyzer in the following setting as:

Below 1GHz:

RBW=100kHz / VBW=300kHz / Sweep=AUTO

Above 1GHz:

- (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
- (b) AVERAGE: RBW=1MHz / VBW=300Hz / Sweep=AUTO
- (c) if duty cycle≥98%, VBW=10Hz.

if duty cycle<98% VBW=1/T.

BT4.0<98%, VBW= 2.7 KHz

- 7. Repeat above procedures until the measurements for all frequencies are complete.
- 8. Result = Spectrum Reading + cable loss(spectrum to Amp) Amp Gain + Cable loss(Amp to receive Ant)+ Receive Ant.

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Below 1 GHz

Operation Mode: Normal Link Test Date: July 26, 2015

Temperature:27°CTested by:Jason LuHumidity:53% RHPolarity:Ver. / Hor.

| Frequency (MHz) | Reading (dBuV) | Correction Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark | Ant.Pol. (H/V) |
|-----------------|-------------------|--------------------------------|--------------------|-------------------|----------------|--------|-------------------|
| 172.5900 | 51.48 | -16.98 | 34.50 | 43.50 | -9.00 | peak | V |
| 276.3800 | 50.05 | -14.68 | 35.37 | 46.00 | -10.63 | peak | V |
| 450.0100 | 47.20 | -10.19 | 37.01 | 46.00 | -8.99 | peak | V |
| 570.2900 | 46.14 | -8.19 | 37.95 | 46.00 | -8.05 | peak | V |
| 798.2400 | 41.61 | -4.51 | 37.10 | 46.00 | -8.90 | peak | V |
| 911.7300 | 38.00 | -3.00 | 35.00 | 46.00 | -11.00 | peak | V |
| 108.5700 | 53.72 | -17.52 | 36.20 | 43.50 | -7.30 | peak | Н |
| 206.5400 | 47.87 | -16.01 | 31.86 | 43.50 | -11.64 | peak | Н |
| 350.1000 | 41.60 | -12.89 | 28.71 | 46.00 | -17.29 | peak | Н |
| 570.2900 | 45.70 | -8.19 | 37.51 | 46.00 | -8.49 | peak | Н |
| 661.4700 | 44.55 | -6.46 | 38.09 | 46.00 | -7.91 | peak | Н |
| 792.4200 | 41.36 | -4.56 | 36.80 | 46.00 | -9.20 | peak | Н |

Remark:

- 1. No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz)
- 2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak detector mode.
- 3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. Margin (dB) = Remark result (dBuV/m) Quasi-peak limit (dBuV/m).

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Above 1 GHz

Operation Mode: GFSK / TX / CH Low Test Date: July 26, 2015

Temperature:27°CTested by:Jason LuHumidity:53 % RHPolarity:Ver. / Hor.

| Frequency (MHz) | Reading (dBuV) | Correction (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark | Ant.Pol. (H/V) |
|-----------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|-------------------|
| 1174.000 | 55.09 | -7.33 | 47.76 | 74.00 | -26.24 | peak | V |
| N/A | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 1824.000 | 51.04 | -4.51 | 46.53 | 74.00 | -27.47 | peak | Н |
| N/A | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | _ | _ | _ | | _ |
| | | | | | | | |

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

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Operation Mode: GFSK / TX / CH Mid **Test Date:** July 26, 2015

Temperature: 27°C **Tested by:** Jason Lu

Humidity: 53 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Reading (dBuV) | Correction (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark | Ant.Pol. (H/V) |
|-----------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|-------------------|
| 1584.000 | 53.51 | -5.75 | 47.76 | 74.00 | -26.24 | peak | V |
| 4355.000 | 42.66 | 3.74 | 46.40 | 74.00 | -27.60 | peak | V |
| N/A | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 1580.000 | 52.42 | -5.78 | 46.64 | 74.00 | -27.36 | peak | Н |
| N/A | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

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Operation Mode: GFSK / TX / CH High Test Date: July 26, 2015

Temperature: 27°C **Tested by:** Jason Lu

Humidity: 53 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Reading (dBuV) | Correction (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark | Ant.Pol. (H/V) |
|-----------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|-------------------|
| 1936.000 | 53.15 | -3.93 | 49.22 | 74.00 | -24.78 | peak | V |
| N/A | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 2338.000 | 50.19 | -2.96 | 47.23 | 74.00 | -26.77 | peak | Н |
| N/A | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

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7.7 POWERLINE CONDUCTED EMISSIONS

LIMIT

According to §15.207(a), except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

| Frequency Range | Limits (dΒμV) | | | | |
|-----------------|------------------|-----------|--|--|--|
| (MHz) | Quasi-peak | Average | | | |
| 0.15 to 0.50 | 66 to 56* | 56 to 46* | | | |
| 0.50 to 5 | 56 | 46 | | | |
| 5 to 30 | 60 | 50 | | | |

Test Configuration

See test photographs attached in Appendix II for the actual connections between EUT and support equipment.

TEST PROCEDURE

- 1. The EUT was placed on a table, which is 0.8m above ground plane.
- Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

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TEST RESULTS

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

Test Data

Operation Mode: Normal Link Test Date: July 6, 2015

Temperature: 26°C **Tested by:** Dennis Li

Humidity: 60% RH

| Freq. (MHz) | QP Reading (dBuV) | AV Reading (dBuV) | Corr. factor (dB/m) | QP Result (dBuV/m) | AV Result (dBuV/m) | QP Limit (dBuV) | AV Limit (dBuV) | QP Margin (dB) | AV Margin (dB) | Note |
|----------------|-------------------------|-------------------------|---------------------------|--------------------------|--------------------------|--------------------|--------------------|----------------------|----------------------|------|
| 0.2233 | 36.98 | 29.68 | 0.06 | 37.04 | 29.74 | 62.70 | 52.70 | -25.66 | -22.96 | L1 |
| 0.3374 | 38.14 | 32.40 | 0.07 | 38.21 | 32.47 | 59.27 | 49.27 | -21.06 | -16.80 | L1 |
| 1.0062 | 40.04 | 29.34 | 0.08 | 40.12 | 29.42 | 56.00 | 46.00 | -15.88 | -16.58 | L1 |
| 1.9190 | 41.20 | 28.16 | 0.08 | 41.28 | 28.24 | 56.00 | 46.00 | -14.72 | -17.76 | L1 |
| 4.8463 | 40.71 | 24.19 | 0.13 | 40.84 | 24.32 | 56.00 | 46.00 | -15.16 | -21.68 | L1 |
| 27.9937 | 27.43 | 16.16 | 0.47 | 27.90 | 16.63 | 60.00 | 50.00 | -32.10 | -33.37 | L1 |
| | | | | | | | | | | |
| 0.2249 | 40.42 | 33.60 | 0.03 | 40.45 | 33.63 | 62.64 | 52.64 | -22.19 | 0.2249 | L2 |
| 0.3420 | 39.53 | 30.58 | 0.02 | 39.55 | 30.60 | 59.15 | 49.15 | -19.60 | 0.3420 | L2 |
| 0.9989 | 41.05 | 29.83 | 0.03 | 41.08 | 29.86 | 56.00 | 46.00 | -14.92 | 0.9989 | L2 |
| 1.6888 | 42.39 | 29.09 | 0.04 | 42.43 | 29.13 | 56.00 | 46.00 | -13.57 | 1.6888 | L2 |
| 4.1499 | 40.22 | 20.88 | 0.07 | 40.29 | 20.95 | 56.00 | 46.00 | -15.71 | 4.1499 | L2 |
| 4.6048 | 40.09 | 24.50 | 0.08 | 40.17 | 24.58 | 56.00 | 46.00 | -15.83 | 4.6048 | L2 |

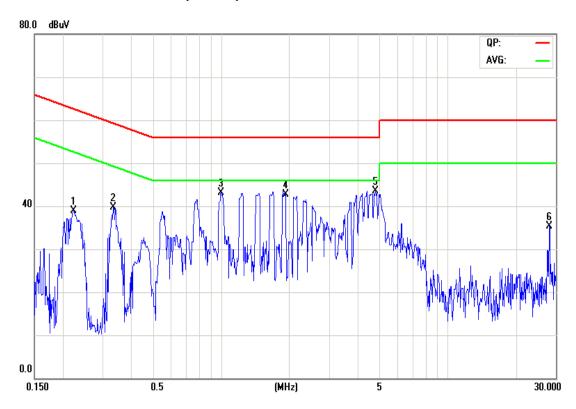
Remark:

- 1. Measuring frequencies from 0.15 MHz to 30MHz.
- 2. The emissions measured in frequency range from 0.15 MHz to 30MHz were made with an instrument using Quasi-peak detector and average detector.
- 3. The IF bandwidth of SPA between 0.15MHz to 30MHz was 10kHz; the IF bandwidth of Test Receiver between 0.15MHz to 30MHz was 9kHz;
- 4. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line)

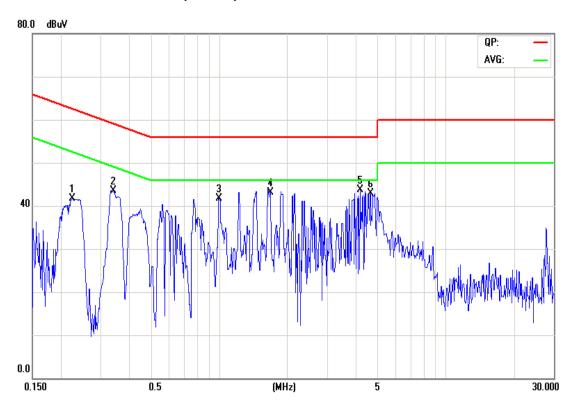
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Test Plots

Conducted emissions (Line 1)



Conducted emissions (Line 2)



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