FCC RADIO TEST REPORT

Applicant : Qardio, Inc.

Address 115 Sansome Street, suite 1005, San Francisco,

CA, 94104, USA

Equipment : Electrocardiograph

Model No. : C100

Trade Name : QardioCore

FCC ID : 2ABF2-888CORE

I HEREBY CERTIFY THAT:

The sample was received on May 24, 2016 and the testing was carried out on May 25, 2016 at Cerpass Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of Cerpass Technology Corp., the test report shall not be reproduced except in full.

Approved by: Tested by:

Ray Chou Assistant Manager Spree Yei / Engineer

Laboratory Accreditation:

Cerpass Technology Corporation Test Laboratory

Testing Laboratory

NVLAPLAB CODE 200954-0

Issued Date: Jun. 01, 2016

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History of this test report

| Report No. | Issue Date | Description |
|-------------|---------------|-------------|
| TEFQ1604057 | Jun. 01, 2016 | Original |
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1. Summary of Test Procedure and Test Results

1.1 Applicable Standards

ANSI C63.4:2014

ANSI C63.10:2013

FCC Rules and Regulations Part 15 Subpart C §15.247

| FCC Rule | . Description of Test | Result |
|------------------|------------------------------------|--------|
| 15.203 | . Antenna Requirement | Pass |
| 15.207 | . AC Power Line Conducted Emission | Pass |
| 15.209 15.205 | . Radiated Spurious Emission | Pass |
| 15.247(d) | . Conducted Spurious Emission | Pass |
| 15.247(a)(2) | . 6dB Bandwidth | Pass |
| 15.247(b) | . Maximum Peak Output Power | Pass |
| 15.247(e) | . Power Spectral Density | Pass |

This EUT has been also tested and compiled with the requirement of FCC Part 15, Subpart B, recorded in a separate test report.

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2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

| Weight (including strap) | 130 gram including the battery |
|--------------------------|--|
| Device Dimensions | 7.3 x 3.4 x 0.4in (185 x 87 x 9mm) |
| Chest Size | 70 ~ 109 cm (27.5 ~ 43 in) |
| ECG Channels | Single channel |
| Frequency Response | 0.05 to 40Hz |
| ECG A/D Sampling Rate | 600 samples per second |
| Sampling Resolution | 16 bit |
| Calibration | Automatic |
| Recording Method | Continuous |
| Power Source | Device is powered by a built-in, 3.7V lithium-ion battery. Use a charging cable. |
| Frequency Range | Bluetooth: 2402-2480 MHz |
| Data Rate | Bluetooth: 1Mbps |
| Antenna Type | Chip Antenna |
| Antenna Gain | 2.5 dBi |

2.2 Carrier Frequency of Channels

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|--------------------|---------|--------------------|---------|--------------------|
| *00 | 2402 | 14 | 2430 | 28 | 2458 |
| 01 | 2404 | 15 | 2432 | 29 | 2460 |
| 02 | 2406 | 16 | 2434 | 30 | 2462 |
| 03 | 2408 | 17 | 2436 | 31 | 2464 |
| 04 | 2410 | 18 | 2438 | 32 | 2466 |
| 05 | 2412 | *19 | 2440 | 33 | 2468 |
| 06 | 2414 | 20 | 2442 | 34 | 2470 |
| 07 | 2416 | 21 | 2444 | 35 | 2472 |
| 08 | 2418 | 22 | 2446 | 36 | 2474 |
| 09 | 2420 | 23 | 2448 | 37 | 2476 |
| 10 | 2422 | 24 | 2450 | 38 | 2478 |
| 11 | 2424 | 25 | 2452 | *39 | 2480 |
| 12 | 2426 | 26 | 2454 | | |
| 13 | 2428 | 27 | 2456 | | |

Note: Channels remarked * are selected to perform test.

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2.3 Test Mode and Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.4.
- b. The complete test system included remote workstation and EUT for RF test. The remote workstation included Notebook.
- c. An executive program, "CSR μ Energy Tools v2.4.3" under WIN 7 was executed to transmit and receive data via Bluetooth.
- d. The following test mode was performed for the test: Test Mode 1. GFSK (1Mbps)

2.4 Description of Test System

| Device | Manufacturer | Model No. | Description |
|----------|--------------|-------------|--------------------------------|
| Notebook | DELL | Vostro 3560 | Power Cable, Unshielding, 1.8m |

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2.5 General Information of Test

| Test Site | Cerpass Technology Corporation Test Laboratory Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848, Taiwan (R.O.C.) Tel:+886-3-3226-888 Fax:+886-3-3226-881 Address: No.68-1, Shihbachongsi, Shihding Township, New Taipei City 223, Taiwan, R.O.C. Tel: +886-2-2663-8582 | | | | |
|-----------------|--|---|--|--|--|
| | FCC | TW1079, TW1061, 390316, 228391, 641184 | | | |
| | IC | 4934E-1, 4934E-2 | | | |
| | VCCI | T-2205 for Telecommunication Test C-4663 for Conducted emission test R-3428, R-4218 for Radiated emission test G-812, G-813 for radiated disturbance above 1GHz | | | |
| Frequency Range | Conduct | Conducted: from 150kHz to 30 MHz | | | |
| Investigated: | Radiation: from 30 MHz to 25,000MHz | | | | |
| Test Distance: | The test distance of radiated emission from antenna to EUT is 3 M. | | | | |

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3. Test Equipment and Ancillaries Used for Tests

| Instrument | Model No. | Manufacturer | Serial No. | Calibration Date | Valid Date |
|--|--------------------|---------------------------|--------------|------------------|------------|
| Bilog Antenna | Schwarzbeck | VULB9168 | 275 | 2015/09/03 | 2016/09/02 |
| Active Loop Antenna | EMCO | 6507 | 40855 | 2016/03/11 | 2017/03/10 |
| Horn Antenna | EMCO | 3115 | 31601 | 2015/09/02 | 2016/09/01 |
| Horn Antenna | EMCO | 3116 | 31974 | 2015/09/07 | 2016/09/06 |
| EXA Signal Analyzer | KEYSIGHT | N9010A | MY54200207 | 2016/03/16 | 2017/03/15 |
| Preamplifier | EM | EM330 | 060660 | 2016/03/16 | 2017/03/15 |
| Preamplifier | Agilent | 8449B | 3008A01954 | 2016/03/04 | 2017/03/03 |
| Preamplifier | MITEQ | AMF-7D-001 0100-30-10P | 1860212 | 2016/03/16 | 2017/03/15 |
| Preamplifier | EMC INSTRUMENTS | EMC184045 | 980065 | 2015/11/04 | 2016/11/03 |
| Signal Generator | KEYSIGHT | 83640A | 2927A00107 | 2015/09/01 | 2016/08/31 |
| MXG MW Analog Signal Generator | KEYSIGHT | N5183A | MY50142931 | 2016/03/18 | 2017/03/17 |
| MXG-B RF Vector Signal Generator | KEYSIGHT | N5182B | MY53051383 | 2016/03/18 | 2017/03/17 |
| Bluetooth Tester | R&S | CBT | 101133 | 2016/03/18 | 2017/03/17 |
| Attenuator | KEYSIGHT | 8491B | MY39250703 | 2016/03/07 | 2017/03/06 |
| Rotary Attenuator | Agilent | 8494B | MY42154466 | 2016/03/08 | 2017/03/07 |
| Rotary Attenuator | Agilent | 8495B | MY42146680 | 2016/03/08 | 2017/03/07 |
| Temp & Humi chamber | T-MACHINE | TMJ-9712 | T-12-040111 | 2015/09/08 | 2016/09/07 |
| Series Power Meter | Anritsu | ML2495A | 1224005 | 2016/03/03 | 2017/03/02 |
| Power Sensor | Anritsu | MA2411B | 1207295 | 2016/03/03 | 2017/03/02 |
| USB Average Power Sensor | Theda | 4PS6A | TW5451013~16 | 2014/11/08 | 2016/11/07 |

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4. Antenna Requirements

4.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.2 Antenna Construction and Directional Gain

Antenna Type: Chip Antenna

Antenna Gain: 2.5dBi

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5. Test of AC Power Line Conducted Emission

5.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz, according to the methods defined in ANSI C63.4-2014. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

| Frequency (MHz) | Quasi Peak (dB µ V) | Average (dB μ V) |
|--------------------|------------------------|---------------------|
| 0.15 – 0.5 | 66-56* | 56-46* |
| 0.5 – 5.0 | 56 | 46 |
| 5.0 – 30.0 | 60 | 50 |

^{*}Decreases with the logarithm of the frequency.

5.2 Test Procedures

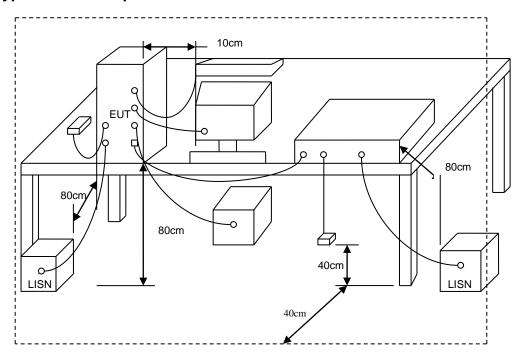
- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connecting to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

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5.3 Typical Test Setup

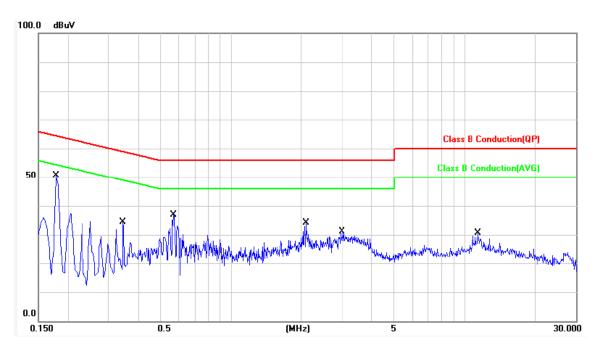


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5.4 Test Result and Data

| Power | : | FROM SYSTEM | Pol/Phase : | LINE |
|-----------|---|--------------|------------------------|----------|
| Test Mode | | Mode 1 | Temperature : | 22 °C |
| Test date | | May 24, 2016 | Humidity : | 50 % |
| Memo | | CH00 | Atmospheric Pressure : | 1008 hPa |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|--------------------|----------------|-------------------|-----------------|-----------------|----------------|----------|-----|
| 1 | 0.1780 | 9.99 | 28.85 | 38.84 | 64.57 | -25.73 | QP | Р |
| 2 | 0.1780 | 9.99 | 11.21 | 21.20 | 54.57 | -33.37 | AVG | Р |
| 3 | 0.3460 | 10.01 | 10.29 | 20.30 | 59.06 | -38.76 | QP | Р |
| 4 | 0.3460 | 10.01 | 2.59 | 12.60 | 49.06 | -36.46 | AVG | Р |
| 5 | 0.5700 | 10.02 | 22.40 | 32.42 | 56.00 | -23.58 | QP | Р |
| 6 | 0.5700 | 10.02 | 14.20 | 24.22 | 46.00 | -21.78 | AVG | Р |
| 7 | 2.1099 | 10.11 | 13.66 | 23.77 | 56.00 | -32.23 | QP | Р |
| 8 | 2.1099 | 10.11 | 8.23 | 18.34 | 46.00 | -27.66 | AVG | Р |
| 9 | 3.0059 | 10.16 | 15.31 | 25.47 | 56.00 | -30.53 | QP | Р |
| 10 | 3.0059 | 10.16 | 9.95 | 20.11 | 46.00 | -25.89 | AVG | Р |
| 11 | 11.4780 | 10.44 | 11.15 | 21.59 | 60.00 | -38.41 | QP | Р |
| 12 | 11.4780 | 10.44 | 5.32 | 15.76 | 50.00 | -34.24 | AVG | Р |

Note: Level = Reading + Factor Margin = Level - Limit

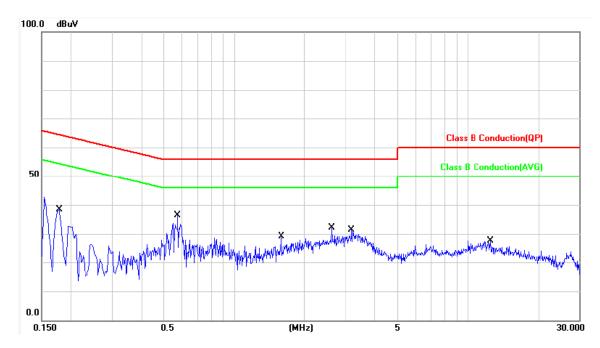
Factor = (LISN, ISN, PLC or current probe) Factor + Cable Loss+ Attenuator

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| Power | : | FROM SYSTEM | Pol/Phase : | NEUTRAL |
|-----------|---|--------------|------------------------|----------|
| Test Mode | : | Mode 1 | Temperature : | 22 °C |
| Test date | : | May 24, 2016 | Humidity : | 50 % |
| Memo | : | CH00 | Atmospheric Pressure : | 1008 hPa |



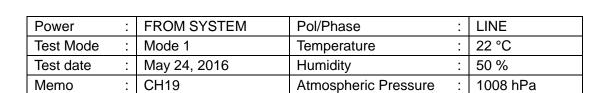
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|--------------------|----------------|-------------------|-----------------|-----------------|----------------|----------|-----|
| 1 | 0.1780 | 9.97 | 25.84 | 35.81 | 64.57 | -28.76 | QP | Р |
| 2 | 0.1780 | 9.97 | 9.97 | 19.94 | 54.57 | -34.63 | AVG | Р |
| 3 | 0.5740 | 9.98 | 22.91 | 32.89 | 56.00 | -23.11 | QP | Р |
| 4 | 0.5740 | 9.98 | 14.55 | 24.53 | 46.00 | -21.47 | AVG | Р |
| 5 | 1.5980 | 10.07 | 11.15 | 21.22 | 56.00 | -34.78 | QP | Р |
| 6 | 1.5980 | 10.07 | 5.60 | 15.67 | 46.00 | -30.33 | AVG | Р |
| 7 | 2.6220 | 10.14 | 14.41 | 24.55 | 56.00 | -31.45 | QP | Р |
| 8 | 2.6220 | 10.14 | 9.12 | 19.26 | 46.00 | -26.74 | AVG | Р |
| 9 | 3.1940 | 10.18 | 15.52 | 25.70 | 56.00 | -30.30 | QP | Р |
| 10 | 3.1940 | 10.18 | 10.19 | 20.37 | 46.00 | -25.63 | AVG | Р |
| 11 | 12.5179 | 10.51 | 10.95 | 21.46 | 60.00 | -38.54 | QP | Р |
| 12 | 12.5179 | 10.51 | 5.42 | 15.93 | 50.00 | -34.07 | AVG | Р |

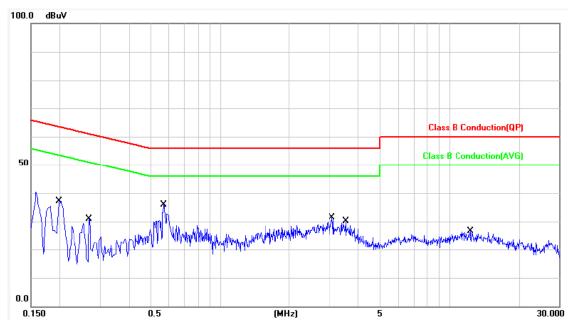
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| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|--------------------|----------------|-------------------|-----------------|-----------------|----------------|----------|-----|
| 1 | 0.1980 | 9.99 | 25.78 | 35.77 | 63.69 | -27.92 | QP | Р |
| 2 | 0.1980 | 9.99 | 10.45 | 20.44 | 53.69 | -33.25 | AVG | Р |
| 3 | 0.2700 | 10.00 | 14.54 | 24.54 | 61.12 | -36.58 | QP | Р |
| 4 | 0.2700 | 10.00 | 3.02 | 13.02 | 51.12 | -38.10 | AVG | Р |
| 5 | 0.5700 | 10.02 | 21.98 | 32.00 | 56.00 | -24.00 | QP | Р |
| 6 | 0.5700 | 10.02 | 13.86 | 23.88 | 46.00 | -22.12 | AVG | Р |
| 7 | 3.0820 | 10.17 | 15.20 | 25.37 | 56.00 | -30.63 | QP | Р |
| 8 | 3.0820 | 10.17 | 9.85 | 20.02 | 46.00 | -25.98 | AVG | Р |
| 9 | 3.5420 | 10.19 | 14.87 | 25.06 | 56.00 | -30.94 | QP | Р |
| 10 | 3.5420 | 10.19 | 9.62 | 19.81 | 46.00 | -26.19 | AVG | Р |
| 11 | 12.3820 | 10.47 | 10.90 | 21.37 | 60.00 | -38.63 | QP | Р |
| 12 | 12.3820 | 10.47 | 4.97 | 15.44 | 50.00 | -34.56 | AVG | Р |

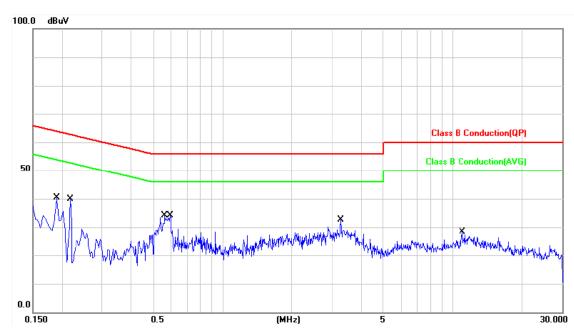
Factor = (LISN, ISN, PLC or current probe) Factor + Cable Loss+ Attenuator

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| Power | : | FROM SYSTEM | Pol/Phase | : | NEUTRAL |
|-----------|---|--------------|----------------------|---|----------|
| Test Mode | | Mode 1 | Temperature | | 22 °C |
| Test date | | May 24, 2016 | Humidity | | 50 % |
| Memo | : | CH19 | Atmospheric Pressure | : | 1008 hPa |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|--------------------|----------------|-------------------|-----------------|-----------------|----------------|----------|-----|
| 1 | 0.1900 | 9.96 | 23.17 | 33.13 | 64.03 | -30.90 | QP | Р |
| 2 | 0.1900 | 9.96 | 9.26 | 19.22 | 54.03 | -34.81 | AVG | Р |
| 3 | 0.2180 | 9.96 | 18.90 | 28.86 | 62.89 | -34.03 | QP | Р |
| 4 | 0.2180 | 9.96 | 5.70 | 15.66 | 52.89 | -37.23 | AVG | Р |
| 5 | 0.5620 | 9.98 | 21.53 | 31.51 | 56.00 | -24.49 | QP | Р |
| 6 | 0.5620 | 9.98 | 13.25 | 23.23 | 46.00 | -22.77 | AVG | Р |
| 7 | 0.5940 | 9.98 | 20.25 | 30.23 | 56.00 | -25.77 | QP | Р |
| 8 | 0.5940 | 9.98 | 12.79 | 22.77 | 46.00 | -23.23 | AVG | Р |
| 9 | 3.2860 | 10.18 | 16.03 | 26.21 | 56.00 | -29.79 | QP | Р |
| 10 | 3.2860 | 10.18 | 10.77 | 20.95 | 46.00 | -25.05 | AVG | Р |
| 11 | 11.0380 | 10.46 | 11.24 | 21.70 | 60.00 | -38.30 | QP | Р |
| 12 | 11.0380 | 10.46 | 5.97 | 16.43 | 50.00 | -33.57 | AVG | Р |

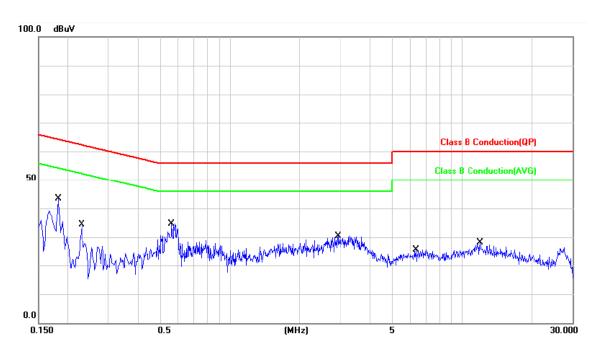
Factor = (LISN, ISN, PLC or current probe) Factor + Cable Loss+ Attenuator

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| Power | : | FROM SYSTEM | Pol/Phase : | LINE | |
|-----------|---|--------------|------------------------|----------|--|
| Test Mode | : | Mode 1 | Temperature : | 22 °C | |
| Test date | : | May 24, 2016 | Humidity : | 50 % | |
| Memo | : | CH39 | Atmospheric Pressure : | 1008 hPa | |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|--------------------|----------------|-------------------|-----------------|-----------------|----------------|----------|-----|
| 1 | 0.1819 | 9.99 | 26.48 | 36.47 | 64.39 | -27.92 | QP | Р |
| 2 | 0.1819 | 9.99 | 9.93 | 19.92 | 54.39 | -34.47 | AVG | Р |
| 3 | 0.2300 | 9.99 | 17.63 | 27.62 | 62.45 | -34.83 | QP | Р |
| 4 | 0.2300 | 9.99 | 5.38 | 15.37 | 52.45 | -37.08 | AVG | Р |
| 5 | 0.5620 | 10.02 | 21.77 | 31.79 | 56.00 | -24.21 | QP | Р |
| 6 | 0.5620 | 10.02 | 13.56 | 23.58 | 46.00 | -22.42 | AVG | Р |
| 7 | 2.9180 | 10.15 | 15.64 | 25.79 | 56.00 | -30.21 | QP | Р |
| 8 | 2.9180 | 10.15 | 10.38 | 20.53 | 46.00 | -25.47 | AVG | Р |
| 9 | 6.3700 | 10.29 | 10.15 | 20.44 | 60.00 | -39.56 | QP | Р |
| 10 | 6.3700 | 10.29 | 5.48 | 15.77 | 50.00 | -34.23 | AVG | Р |
| 11 | 11.9980 | 10.46 | 11.54 | 22.00 | 60.00 | -38.00 | QP | Р |
| 12 | 11.9980 | 10.46 | 5.30 | 15.76 | 50.00 | -34.24 | AVG | Р |

Note: Level = Reading + Factor

Margin = Level - Limit

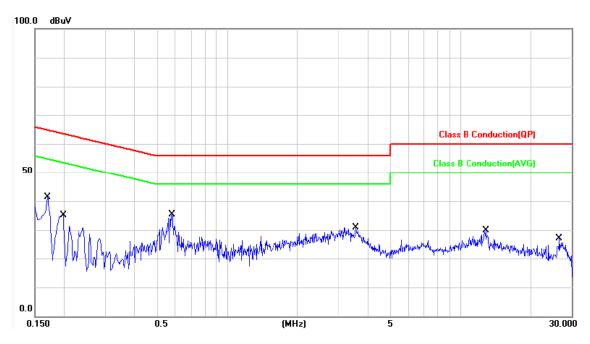
Factor = (LISN, ISN, PLC or current probe) Factor + Cable Loss+ Attenuator

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| Power | : | FROM SYSTEM | Pol/Phase : | NEUTRAL |
|-----------|---|--------------|------------------------|----------|
| Test Mode | : | Mode 1 | Temperature : | 22 °C |
| Test date | : | May 24, 2016 | Humidity : | 50 % |
| Memo | : | CH39 | Atmospheric Pressure : | 1008 hPa |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|--------------------|----------------|-------------------|-----------------|-----------------|----------------|----------|-----|
| 1 | 0.1700 | 9.97 | 27.85 | 37.82 | 64.96 | -27.14 | QP | Р |
| 2 | 0.1700 | 9.97 | 15.18 | 25.15 | 54.96 | -29.81 | AVG | Р |
| 3 | 0.1980 | 9.96 | 24.09 | 34.05 | 63.69 | -29.64 | QP | Р |
| 4 | 0.1980 | 9.96 | 9.99 | 19.95 | 53.69 | -33.74 | AVG | Р |
| 5 | 0.5820 | 9.98 | 22.73 | 32.71 | 56.00 | -23.29 | QP | Р |
| 6 | 0.5820 | 9.98 | 15.10 | 25.08 | 46.00 | -20.92 | AVG | Р |
| 7 | 3.5700 | 10.20 | 15.56 | 25.76 | 56.00 | -30.24 | QP | Р |
| 8 | 3.5700 | 10.20 | 10.20 | 20.40 | 46.00 | -25.60 | AVG | Р |
| 9 | 12.9140 | 10.52 | 10.66 | 21.18 | 60.00 | -38.82 | QP | Р |
| 10 | 12.9140 | 10.52 | 5.37 | 15.89 | 50.00 | -34.11 | AVG | Р |
| 11 | 26.6220 | 10.92 | 13.14 | 24.06 | 60.00 | -35.94 | QP | Р |
| 12 | 26.6220 | 10.92 | 9.68 | 20.60 | 50.00 | -29.40 | AVG | Р |

Factor = (LISN, ISN, PLC or current probe) Factor + Cable Loss+ Attenuator

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6. Test of Spurious Emission (Radiated)

6.1 Test Limit

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter measurement is based on the maximum conducted output power, the attenuation required under this paragraph shall be 30dB instead of 20dB. In addition, radiated emissions which fall in section 15.205(a) the restricted bands must also comply with the radiated emission limit specified in section 15.209(a).

| Frequency (MHz) | Field Strength (microvolt/meter) | Measurement Distance (meters) |
|--------------------|----------------------------------|-------------------------------|
| 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 |

6.2 Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- i. "Cone of radiation" has been considered to be 3dB bandwidth of the measurement antenna.

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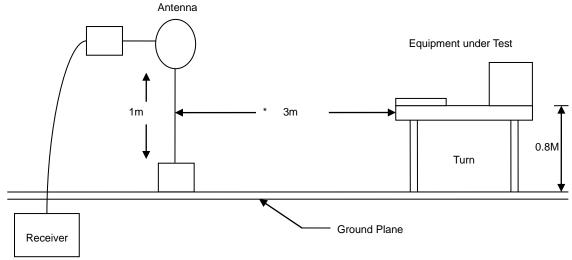
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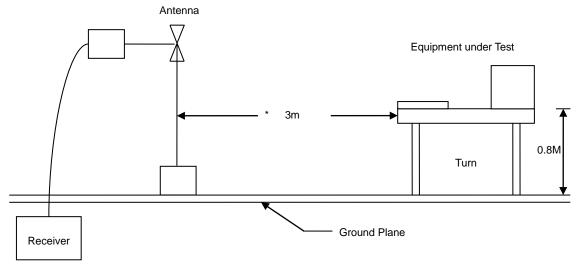


6.3 Typical Test Setup

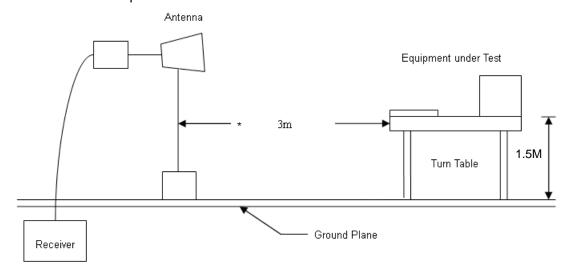
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup



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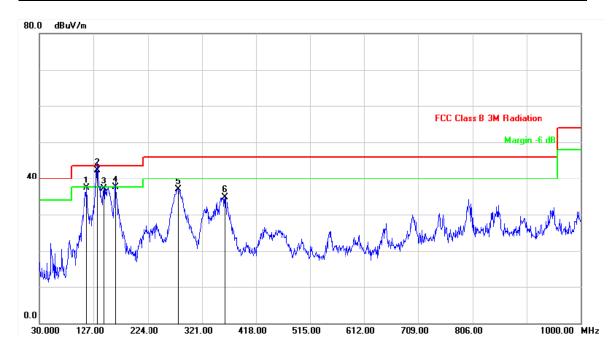


6.4 Test Result and Data (9kHz ~ 30MHz)

The 9kHz - 30MHz spurious emission is under limit 20dB more.

6.5 Test Result and Data (30MHz ~ 1GHz)

| Power | : | From System | Pol/Phase | : | VERTICAL |
|-----------|---|--------------|----------------------|---|----------|
| Test Mode | : | Mode 1 | Temperature | | 22.3 °C |
| Test Date | : | May 24, 2016 | Humidity | | 49 % |
| Memo | : | CH00 | Atmospheric Pressure | | 1008 hPa |



| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth | P/F |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|----------|----------------|---------|-----|
| 1 | 114.3900 | -18.66 | 55.94 | 37.28 | 43.50 | -6.22 | peak | 100 | 0 | Р |
| 2 | 133.7899 | -16.67 | 59.00 | 42.33 | 43.50 | -1.17 | QP | 100 | 66 | Р |
| 3 | 145.4299 | -16.03 | 53.04 | 37.01 | 43.50 | -6.49 | QP | 112 | 152 | Р |
| 4 | 165.8000 | -16.04 | 53.62 | 37.58 | 43.50 | -5.92 | QP | 101 | 178 | Р |
| 5 | 278.3200 | -15.52 | 52.43 | 36.91 | 46.00 | -9.09 | peak | 100 | 0 | Р |
| 6 | 362.7100 | -13.22 | 47.89 | 34.67 | 46.00 | -11.33 | peak | 100 | 0 | Р |

Note: Level = Reading + Factor Margin = Level - Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor

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| Power | : | From System | Pol/Phase | : | HORIZONTAL |
|-----------|---|--------------|----------------------|---|------------|
| Test Mode | : | Mode 1 | Temperature | | 22.3 °C |
| Test Date | : | May 24, 2016 | Humidity | | 49 % |
| Memo | : | CH00 | Atmospheric Pressure | : | 1008 hPa |

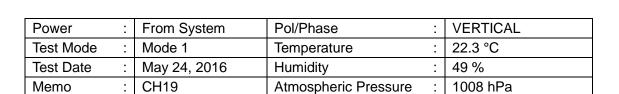


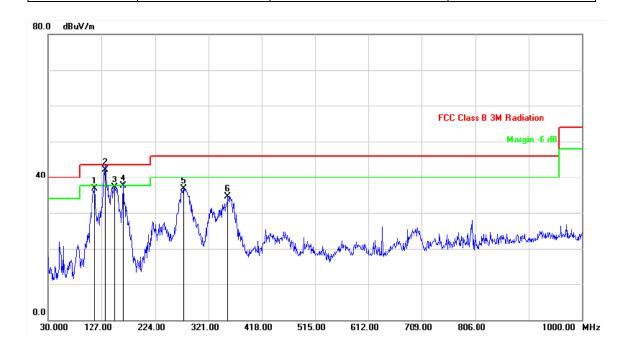
| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth | P/F |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|----------|----------------|---------|-----|
| 1 | 114.3900 | -18.66 | 55.00 | 36.34 | 43.50 | -7.16 | QP | 174 | 28 | Р |
| 2 | 134.9450 | -16.56 | 55.34 | 38.78 | 43.50 | -4.72 | QP | 157 | 143 | Р |
| 3 | 166.7700 | -16.08 | 54.02 | 37.94 | 43.50 | -5.56 | QP | 160 | 155 | Р |
| 4 | 277.3500 | -15.55 | 54.01 | 38.46 | 46.00 | -7.54 | QP | 124 | 278 | Р |
| 5 | 358.8299 | -13.32 | 50.90 | 37.58 | 46.00 | -8.42 | QP | 142 | 265 | Р |
| 6 | 434.4900 | -11.39 | 45.60 | 34.21 | 46.00 | -11.79 | peak | 200 | 0 | Р |

Factor = Antenna Factor + Cable Loss - Amplifier Factor

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| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (·) | P/F |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|----------|----------------|------------------|-----|
| 1 | 114.3900 | -18.66 | 55.33 | 36.67 | 43.50 | -6.83 | peak | 100 | 0 | Р |
| 2 | 133.7899 | -16.67 | 58.85 | 42.18 | 43.50 | -1.32 | QP | 101 | 75 | Р |
| 3 | 150.2800 | -15.93 | 52.94 | 37.01 | 43.50 | -6.49 | peak | 100 | 0 | Р |
| 4 | 165.8000 | -16.04 | 53.46 | 37.42 | 43.50 | -6.08 | QP | 108 | 182 | Р |
| 5 | 276.3800 | -15.58 | 52.21 | 36.63 | 46.00 | -9.37 | peak | 100 | 0 | Р |
| 6 | 356.8900 | -13.38 | 47.86 | 34.48 | 46.00 | -11.52 | peak | 100 | 0 | Р |

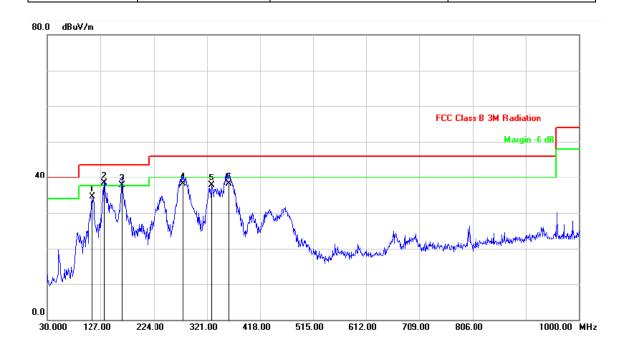
Factor = Antenna Factor + Cable Loss - Amplifier Factor

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| Power | | From System | Pol/Phase | HORIZONTAL |
|-----------|---|--------------|----------------------|----------------|
| Test Mode | | Mode 1 | Temperature | 22.3 °C |
| Test Date | | May 24, 2016 | Humidity | 49 % |
| Memo | : | CH19 | Atmospheric Pressure | 1008 hPa |



| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth | P/F |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|----------|----------------|---------|-----|
| 1 | 112.4500 | -18.84 | 53.27 | 34.43 | 43.50 | -9.07 | peak | 200 | 0 | Р |
| 2 | 133.7899 | -16.67 | 54.92 | 38.25 | 43.50 | -5.25 | QP | 147 | 136 | Р |
| 3 | 166.7700 | -16.08 | 53.77 | 37.69 | 43.50 | -5.81 | QP | 159 | 162 | Р |
| 4 | 277.3500 | -15.55 | 53.69 | 38.14 | 46.00 | -7.86 | QP | 134 | 264 | Р |
| 5 | 329.7300 | -14.09 | 51.76 | 37.67 | 46.00 | -8.33 | peak | 200 | 0 | Р |
| 6 | 361.7400 | -13.24 | 51.43 | 38.19 | 46.00 | -7.81 | QP | 154 | 277 | Р |

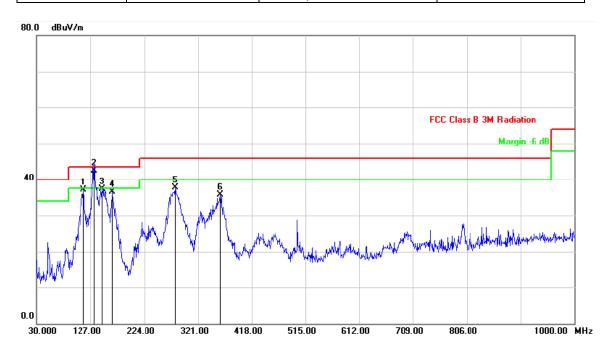
Factor = Antenna Factor + Cable Loss - Amplifier Factor

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| Power | : | From System | Pol/Phase | : | VERTICAL |
|-----------|---|--------------|----------------------|---|----------|
| Test Mode | : | Mode 1 | Temperature | : | 22.3 °C |
| Test Date | : | May 24, 2016 | Humidity | : | 49 % |
| Memo | : | CH39 | Atmospheric Pressure | : | 1008 hPa |



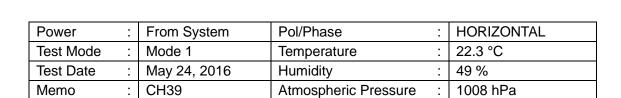
| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (·) | P/F |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|----------|----------------|---------------|-----|
| 1 | 114.3900 | -18.66 | 55.69 | 37.03 | 43.50 | -6.47 | peak | 100 | 0 | Р |
| 2 | 133.7899 | -16.67 | 59.15 | 42.48 | 43.50 | -1.02 | QP | 104 | 88 | Р |
| 3 | 148.3400 | -15.97 | 53.29 | 37.32 | 43.50 | -6.18 | peak | 100 | 0 | Р |
| 4 | 166.7700 | -16.08 | 52.63 | 36.55 | 43.50 | -6.95 | peak | 100 | 0 | Р |
| 5 | 280.2600 | -15.45 | 53.08 | 37.63 | 46.00 | -8.37 | peak | 100 | 0 | Р |
| 6 | 361.7400 | -13.24 | 48.88 | 35.64 | 46.00 | -10.36 | peak | 100 | 0 | Р |

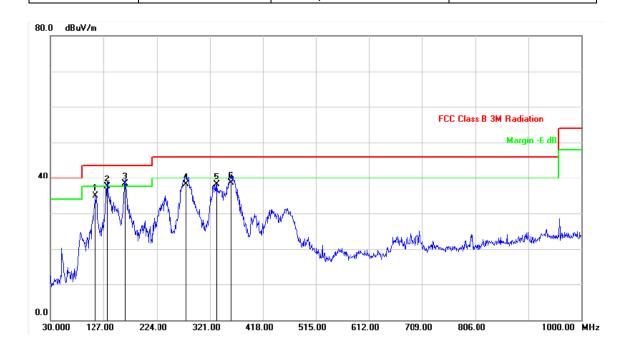
Factor = Antenna Factor + Cable Loss - Amplifier Factor

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| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth | P/F |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|----------|----------------|---------|-----|
| 1 | 112.4500 | -18.84 | 53.78 | 34.94 | 43.50 | -8.56 | peak | 200 | 0 | Р |
| 2 | 133.7899 | -16.67 | 54.12 | 37.45 | 43.50 | -6.05 | QP | 142 | 128 | Р |
| 3 | 166.7700 | -16.08 | 54.33 | 38.25 | 43.50 | -5.25 | QP | 153 | 159 | Р |
| 4 | 277.3500 | -15.55 | 53.66 | 38.11 | 46.00 | -7.89 | QP | 133 | 244 | Р |
| 5 | 333.6099 | -13.99 | 52.18 | 38.19 | 46.00 | -7.81 | peak | 200 | 0 | Р |
| 6 | 359.8000 | -13.29 | 51.88 | 38.59 | 46.00 | -7.41 | QP | 159 | 264 | Р |

Factor = Antenna Factor + Cable Loss - Amplifier Factor

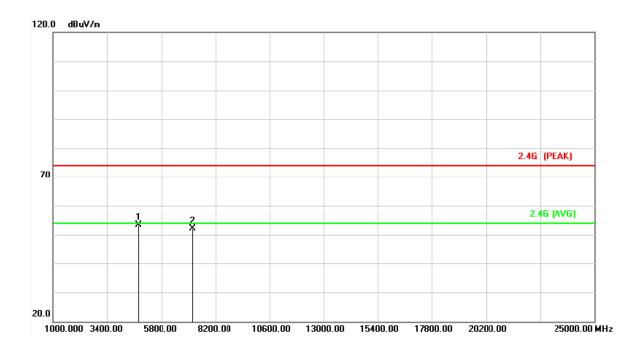
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6.6 Test Result and Data (1GHz ~ 25GHz)

| Power | : | From System | Pol/Phase | : | VERTICAL |
|-----------|---|--------------|----------------------|---|----------|
| Test Mode | | Mode 1 | Temperature | : | 22.3 °C |
| Test Date | | May 24, 2016 | Humidity | : | 49 % |
| Memo | | CH00 | Atmospheric Pressure | : | 1008 hPa |



| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | | Margin (dB) | Detector | Height (cm) | Azimuth (·) | P/F |
|-----|--------------------|------------------|-------------------|-------------------|-------|----------------|----------|----------------|---------------|-----|
| 1 | 4804.260 | 7.85 | 45.61 | 53.46 | 74.00 | -20.54 | peak | 109 | 274 | Р |
| 2 | 7206.480 | 11.78 | 40.38 | 52.16 | 74.00 | -21.84 | peak | 124 | 138 | Р |

Note: Level = Reading + Factor Margin = Level - Limit

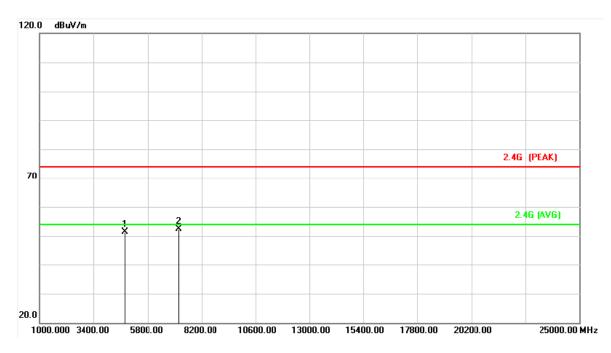
Factor = Antenna Factor + Cable Loss - Amplifier Factor

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| Power | : | From System | Pol/Phase | : | HORIZONTAL |
|-----------|---|--------------|----------------------|---|------------|
| Test Mode | : | Mode 1 | Temperature | : | 22.3 °C |
| Test Date | : | May 24, 2016 | Humidity | : | 49 % |
| Memo | : | CH00 | Atmospheric Pressure | : | 1008 hPa |



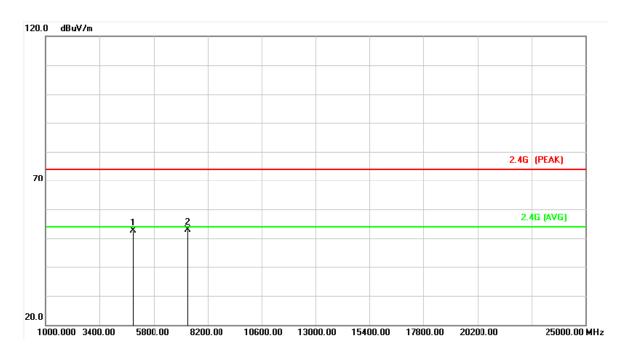
| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | | Margin (dB) | Detector | Height (cm) | Azimuth | P/F |
|-----|--------------------|------------------|-------------------|-------------------|-------|----------------|----------|----------------|---------|-----|
| 1 | 4804.160 | 7.84 | 43.44 | 51.28 | 74.00 | -22.72 | peak | 234 | 189 | Р |
| 2 | 7206.830 | 11.78 | 40.48 | 52.26 | 74.00 | -21.74 | peak | 157 | 227 | Р |

Factor = Antenna Factor + Cable Loss - Amplifier Factor

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| Power | : | From System | Pol/Phase | : | VERTICAL |
|-----------|---|--------------|----------------------|---|----------|
| Test Mode | : | Mode 1 | Temperature | : | 22.3 °C |
| Test Date | : | May 24, 2016 | Humidity | : | 49 % |
| Memo | : | CH19 | Atmospheric Pressure | : | 1008 hPa |



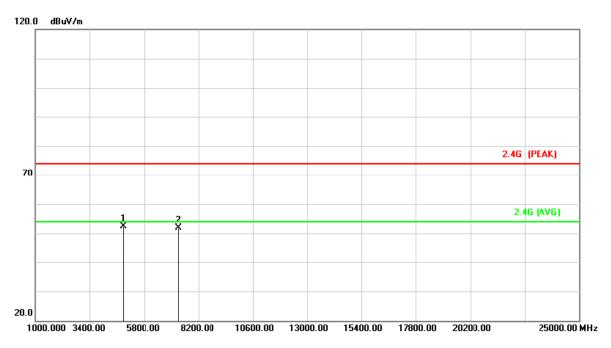
| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | | Margin (dB) | Detector | Height (cm) | Azimuth | P/F |
|-----|--------------------|------------------|-------------------|-------------------|-------|----------------|----------|----------------|---------|-----|
| 1 | 4880.250 | 8.22 | 44.47 | 52.69 | 74.00 | -21.31 | peak | 114 | 178 | Р |
| 2 | 7320.140 | 12.07 | 40.72 | 52.79 | 74.00 | -21.21 | peak | 132 | 242 | Р |

Factor = Antenna Factor + Cable Loss - Amplifier Factor

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| Power | : | From System | Pol/Phase | : | HORIZONTAL |
|-----------|---|--------------|----------------------|---|------------|
| Test Mode | : | Mode 1 | Temperature | : | 22.3 °C |
| Test Date | : | May 24, 2016 | Humidity | : | 49 % |
| Memo | : | CH19 | Atmospheric Pressure | : | 1008 hPa |



| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | | Margin (dB) | Detector | Height (cm) | Azimuth (·) | P/F |
|-----|--------------------|------------------|-------------------|-------------------|-------|----------------|----------|----------------|---------------|-----|
| 1 | 4880.190 | 8.22 | 44.24 | 52.46 | 74.00 | -21.54 | peak | 234 | 192 | Р |
| 2 | 7320.480 | 12.07 | 39.80 | 51.87 | 74.00 | -22.13 | peak | 175 | 226 | Р |

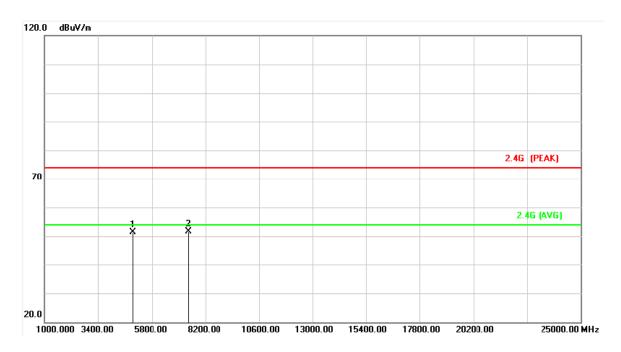
Factor = Antenna Factor + Cable Loss - Amplifier Factor

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| Power | : | From System | Pol/Phase | : | VERTICAL |
|-----------|---|--------------|----------------------|---|----------|
| Test Mode | : | Mode 1 | Temperature | : | 22.3 °C |
| Test Date | : | May 24, 2016 | Humidity | : | 49 % |
| Memo | : | CH39 | Atmospheric Pressure | : | 1008 hPa |



| N | 0. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | | Margin (dB) | Detector | Height (cm) | Azimuth | P/F |
|---|----|--------------------|------------------|-------------------|-------------------|-------|----------------|----------|----------------|---------|-----|
| , | 1 | 4960.440 | 8.61 | 42.71 | 51.32 | 74.00 | -22.68 | peak | 136 | 220 | Р |
| 2 | 2 | 7440.360 | 12.38 | 39.36 | 51.74 | 74.00 | -22.26 | peak | 158 | 145 | Р |

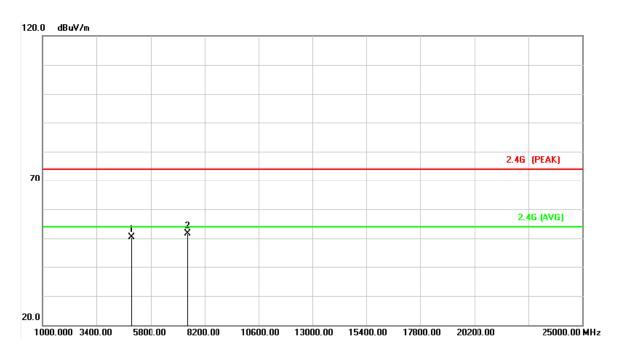
Factor = Antenna Factor + Cable Loss - Amplifier Factor

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| Power | : | From System | Pol/Phase | : | HORIZONTAL |
|-----------|---|--------------|----------------------|---|------------|
| Test Mode | | Mode 1 | Temperature | : | 22.3 °C |
| Test Date | | May 24, 2016 | Humidity | : | 49 % |
| Memo | | CH39 | Atmospheric Pressure | : | 1008 hPa |



| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | | Margin (dB) | Detector | Height (cm) | Azimuth (·) | P/F |
|-----|--------------------|------------------|-------------------|-------------------|-------|----------------|----------|----------------|------------------|-----|
| 1 | 4960.710 | 8.62 | 41.81 | 50.43 | 74.00 | -23.57 | peak | 172 | 247 | Р |
| 2 | 7440.190 | 12.38 | 39.37 | 51.75 | 74.00 | -22.25 | peak | 234 | 165 | Р |

Factor = Antenna Factor + Cable Loss - Amplifier Factor

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6.7 Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|---------------------|-----------------------|-----------------|-----------------|
| 0.09000 - 0.11000 | 16.42000 - 16.42300 | 399.9 – 410.0 | 4.500 - 5.250 |
| 0.49500 - 0.505** | 16.69475 - 16.69525 | 608.0 - 614.0 | 5.350 - 5.460 |
| 2.17350 – 2.19050 | 16.80425 - 16.80475 | 960.0 – 1240.0 | 7.250 – 7.750 |
| 4.12500 – 4.12800 | 25.50000 - 25.67000 | 1300.0 – 1427.0 | 8.025 - 8.500 |
| 4.17725 – 4.17775 | 37.50000 - 38.25000 | 1435.0 – 1626.5 | 9.000 - 9.200 |
| 4.20725 – 4.20775 | 73.00000 - 74.60000 | 1645.5 – 1646.5 | 9.300 - 9.500 |
| 6.21500 - 6.21800 | 74.80000 – 75.20000 | 1660.0 – 1710.0 | 10.600 – 12.700 |
| 6.26775 – 6.26825 | 108.00000 - 121.94000 | 1718.8 – 1722.2 | 13.250 – 13.400 |
| 6.31175 – 6.31225 | 123.00000 - 138.00000 | 2200.0 – 2300.0 | 14.470 – 14.500 |
| 8.29100 - 8.29400 | 149.90000 - 150.05000 | 2310.0 – 2390.0 | 15.350 – 16.200 |
| 8.36200 - 8.36600 | 156.52475 – 156.52525 | 2483.5 – 2500.0 | 17.700 – 21.400 |
| 8.37625 - 8.38675 | 156.70000 - 156.90000 | 2655.0 – 2900.0 | 22.010 – 23.120 |
| 8.41425 – 8.41475 | 162.01250 - 167.17000 | 3260.0 - 3267.0 | 23.600 – 24.000 |
| 12.29000 – 12.29300 | 167.72000 - 173.20000 | 3332.0 – 3339.0 | 31.200 – 31.800 |
| 12.51975 – 12.52025 | 240.00000 - 285.00000 | 3345.8 – 3358.0 | 36.430 – 36.500 |
| 12.57675 – 12.57725 | 322.00000 - 335.40000 | 3600.0 - 4400.0 | Above 38.6 |
| 13.36000 – 13.41000 | | | |

^{**:} Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

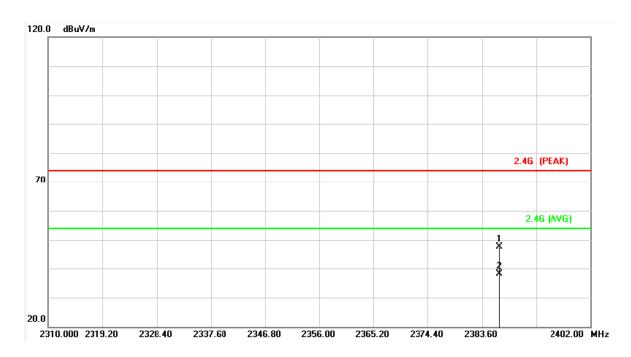
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6.8 Restrict Band Emission Measurement Data

| Power | : | From System | Pol/Phase | : | VERTICAL |
|-----------|---|--------------|----------------------|---|----------|
| Test Mode | | Mode 1 | Temperature | : | 22.3 °C |
| Test Date | | May 24, 2016 | Humidity | : | 49 % |
| Memo | | CH00 | Atmospheric Pressure | : | 1008 hPa |



| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | l | Margin (dB) | Detector | Height (cm) | Azimuth (·) | P/F |
|-----|--------------------|------------------|-------------------|-------------------|-------|----------------|----------|----------------|---------------|-----|
| 1 | 2386.544 | -0.96 | 48.56 | 47.60 | 74.00 | -26.40 | peak | 100 | 217 | Р |
| 2 | 2386.544 | -0.96 | 39.05 | 38.09 | 54.00 | -15.91 | AVG | 110 | 217 | Р |

Note: Level = Reading + Factor Margin = Level - Limit

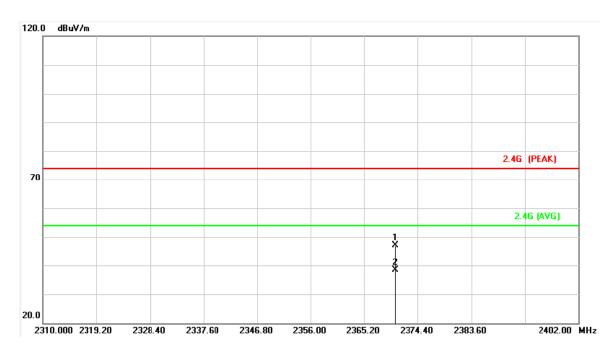
Factor = Antenna Factor + Cable Loss - Amplifier Factor

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| Power | : | From System | Pol/Phase | : | HORIZONTAL |
|-----------|---|--------------|----------------------|---|------------|
| Test Mode | : | Mode 1 | Temperature | : | 22.3 °C |
| Test Date | : | May 24, 2016 | Humidity | : | 49 % |
| Memo | : | CH00 | Atmospheric Pressure | : | 1008 hPa |



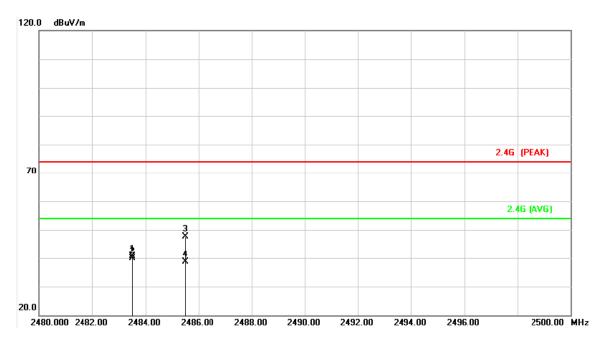
| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | l | Margin (dB) | Detector | Height (cm) | Azimuth | P/F |
|-----|--------------------|------------------|-------------------|-------------------|-------|----------------|----------|----------------|---------|-----|
| 1 | 2370.536 | -1.01 | 48.02 | 47.01 | 74.00 | -26.99 | peak | 117 | 195 | Р |
| 2 | 2370.536 | -1.01 | 39.46 | 38.45 | 54.00 | -15.55 | AVG | 117 | 195 | Р |

Factor = Antenna Factor + Cable Loss - Amplifier Factor

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| Power | : | From System | Pol/Phase | : | VERTICAL |
|-----------|---|--------------|----------------------|---|----------|
| Test Mode | | Mode 1 | Temperature | : | 22.3 °C |
| Test Date | | May 24, 2016 | Humidity | | 49 % |
| Memo | | CH39 | Atmospheric Pressure | : | 1008 hPa |



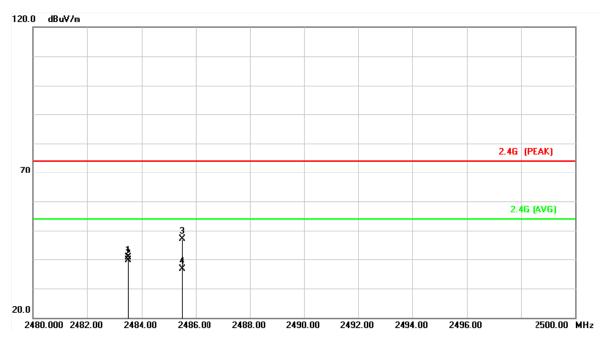
| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth | P/F |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|----------|----------------|---------|-----|
| 1 | 2483.500 | -0.64 | 41.16 | 40.52 | 74.00 | -33.48 | peak | 152 | 221 | Р |
| 2 | 2483.500 | -0.64 | 40.44 | 39.80 | 54.00 | -14.20 | AVG | 152 | 221 | Р |
| 3 | 2485.500 | -0.64 | 48.19 | 47.55 | 74.00 | -26.45 | peak | 152 | 221 | Р |
| 4 | 2485.500 | -0.64 | 39.17 | 38.53 | 54.00 | -15.47 | AVG | 152 | 221 | Р |

Factor = Antenna Factor + Cable Loss - Amplifier Factor

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| Power | : | From System | Pol/Phase | : | HORIZONTAL |
|-----------|---|--------------|----------------------|---|------------|
| Test Mode | : | Mode 1 | Temperature | : | 22.3 °C |
| Test Date | : | May 24, 2016 | Humidity | : | 49 % |
| Memo | : | CH39 | Atmospheric Pressure | : | 1008 hPa |



| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth | P/F |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|----------|----------------|---------|-----|
| 1 | 2483.500 | -0.64 | 41.36 | 40.72 | 74.00 | -33.28 | peak | 128 | 232 | Р |
| 2 | 2483.500 | -0.64 | 40.39 | 39.75 | 54.00 | -14.25 | AVG | 128 | 232 | Р |
| 3 | 2485.500 | -0.64 | 47.88 | 47.24 | 74.00 | -26.76 | peak | 128 | 232 | Р |
| 4 | 2485.500 | -0.64 | 37.35 | 36.71 | 54.00 | -17.29 | AVG | 128 | 232 | Р |

Factor = Antenna Factor + Cable Loss - Amplifier Factor

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7. Test of Spurious Emission (Conducted)

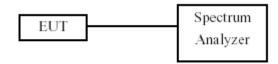
7.1 Test Limit

Below –20dB of the highest emission level of operating band (In 100 kHz Resolution Bandwidth)

7.2 Test Procedure

- a. The transmitter output was connected to the spectrum analyzer via a low lose cable.
- b. Set RBW of spectrum analyzer to 100 KHz and VBW of spectrum analyzer to 300 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- c. Peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20dB relative to the maximum measured in-band peak PSD level.
- d. The band edges was measured and recorded.

7.3 Test Setup Layout



7.4 Test Result and Data

Test Date: May 25, 2016 Temperature: 21°C Atmospheric pressure: 1025hPa Humidity: 64%

Note: Test plots refer to the following pages.

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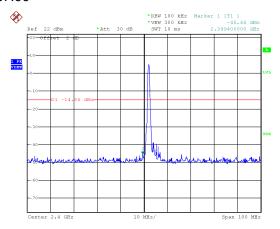
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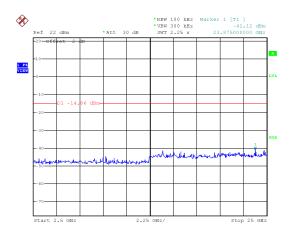
FCC ID. : 2ABF2-888CORE



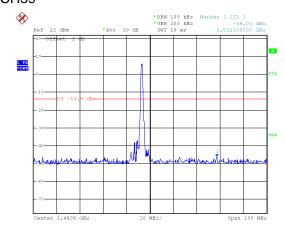
ERPASS TECHNOLOGY CORP. Report No.: TEFQ1604057

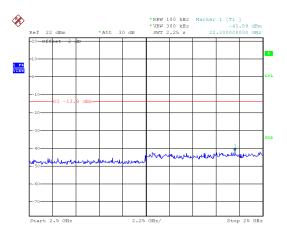
Modulation Type: GFSK(1Mbps) CH00





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8. 6dB Bandwidth Measurement Data

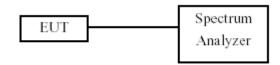
8.1 Test Limit

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

8.2 Test Procedures

- a. The transmitter output was connected to the spectrum analyzer.
- b. Set RBW of spectrum analyzer to 1~5% of the emission bandwidth and VBW ≥ 3x RBW.
- c. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.
- d. The 6dB Bandwidth was measured and recorded.

8.3 Test Setup Layout



8.4 Test Result and Data

Test Date: May 25, 2016 Temperature: 21°C Atmospheric pressure: 1025hPa Humidity: 64%

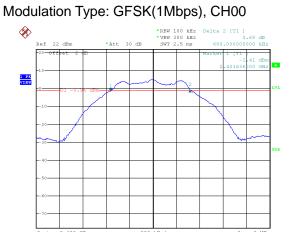
| Modulation Type | Channel | Frequency (MHz) | 6dB Bandwidth (KHz) |
|--------------------|---------|--------------------|------------------------|
| | 00 | 2402 | 680.00 |
| GFSK | 19 | 2440 | 676.00 |
| | 39 | 2480 | 680.00 |

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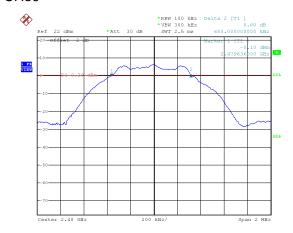
CERPASS TECHNOLOGY CORP.





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9. Maximum Peak and Average Output Power

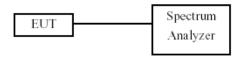
9.1 Test Limit

The Maximum Peak Output Power Measurement is 30dBm.

9.2 Test Procedures

The antenna port (RF output) of the EUT was connected to the input (RF input) of a power meter. Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

9.3 Test Setup Layout



9.4 Test Result and Data

Test Date: May 25, 2016 Temperature: 21°C Atmospheric pressure: 1025hPa Humidity: 64%

| Modulation Standard | Channel | Frequency (MHz) | | Output Bm) | Peak Power Output (mW) | | |
|------------------------|---------|--------------------|------|---------------|------------------------|---------|--|
| Claridard | | | Peak | Average | Peak | Average | |
| | 00 | 2402 | 6.44 | 6.21 | 4.406 | 4.178 | |
| GFSK | 19 | 2440 | 7.11 | 6.92 | 5.140 | 4.920 | |
| | 39 | 2480 | 7.39 | 7.23 | 5.483 | 5.284 | |

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10. Power Spectral Density

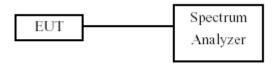
10.1 Test Limit

The Maximum of Power Spectral Density Measurement is 8dBm.

10.2 Test Procedures

- a. The transmitter output was connected to spectrum analyzer.
- b. The spectrum analyzer's resolution bandwidth were set at 3KHz RBW and 30KHz VBW as that of the fundamental frequency. Set the sweep time=auto couple.
- c. The power spectral density was measured and recorded.

10.3 Test Setup Layout



10.4 Test Result and Data

Test Date: May 25, 2016 Temperature: 21°C Atmospheric pressure: 1025hPa Humidity: 64%

| Modulation Standard | Channel | Frequency (MHz) | Maximum Power Density of 3 kHz Bandwidth (dBm) |
|---------------------|---------|--------------------|--|
| | 00 | 2402 | -10.73 |
| GFSK | 19 | 2440 | -10.01 |
| | 39 | 2480 | -9.37 |

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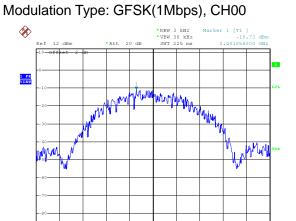
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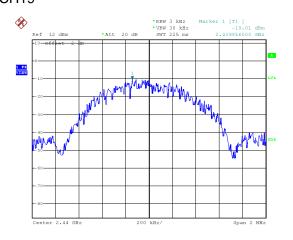
FCC ID. : 2ABF2-888CORE



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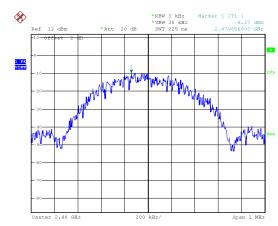
CH19





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