

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C AND INDUSTRY CANADA RSS 247 REQUIREMENT

OF

PAWBO Inc.

Applicant: PAWBO Inc.
Product Name: PAWBO iPuppyGo
Brand Name: PAWBO
Model No.: PPC-BC01
Model Difference: N/A
FCC ID: 2AETSPPC-BC01
IC: 20206-PPCBC01
Report Number: ER/2018/60065
FCC Rule Part: §15.247, Cat: DTS
IC Rule Part: RSS-247 issue 2 Feb 2017
Issue Date: Jun. 22, 2018
Date of Test: Jun. 15, 2017 ~ Jun. 15, 2018
Date of EUT Received: Jun. 15, 2017

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. 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 conducted and radiated emission limits.

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



Tested By:

Louis Chen / Sr. Engineer



Approved By:

Jim Chang / Manager



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Revision History

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|---------------|----------|------------------------------|------------------|---------------|---------------|
| ER/2018/60065 | Rev.00 | Initial creation of document | All | Jun. 22, 2018 | Violetta Tang |

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1 GENERAL INFORMATION

1.1 Product Description

General:

| | |
|-------------------|--------------------------|
| Product Name: | PAWBO iPuppyGo |
| Brand Name: | PAWBO |
| Model No.: | PPC-BC01 |
| Model difference: | N/A |
| Hardware Version: | MG-02A-01G |
| Software Version: | MS-02-1.1 |
| Power Supply: | 3Vdc from CR2032 Battery |

Bluetooth Low Energy:

| | |
|----------------------|----------------------------------|
| Bluetooth Version: | Bluetooth V4.0 LE Single mode |
| Channel number: | 40 channels |
| Modulation type: | GFSK |
| Transmit Power: | 0.68dBm |
| Frequency Range: | 2402 – 2480MHz |
| Antenna Designation: | Internal Antenna, Gain: -4.69dBi |

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1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 DTS Meas. Guidance v04.

RSS-Gen. issue 5 Apr. 2018

RSS-247 issue 2 Feb. 2017

ANSI C63.10:2013

Note: All test items have been performed and record as per the above standards.

1.3 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803 (TAF code 0513)

FCC Registration Number and Designation are: 509634 / TW0001

Canada Registration Number: 4620A

1.4 Special Accessories

There are no special accessories used while test was conducted.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plan. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz,. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207 & RSS-Gen §8.8. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plan. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table 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 max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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2.5 Configuration of Tested System

Fig. 2-1 Radiated & Conducted (Antenna Port) Emission Configuration

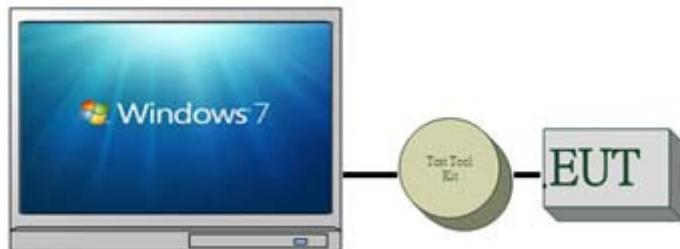


Table 2-1 Equipment Used in Tested System

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Data Cable | Power Cord |
|------|-------------------------|-----------|----------------|------------|------------|------------|
| 1. | Bluetooth Test Software | N/A | N/A | N/A | N/A | N/A |
| 2. | Test Tool Kit | N/A | N/A | N/A | N/A | N/A |
| 3. | Notebook | Lenovo | R400 | 7440AV6 | Shielded | Unshielded |

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3 SUMMARY OF TEST RESULTS

| FCC Rules | IC Rules | Description Of Test | Result |
|-----------------------|----------------------------------|--|-----------|
| §15.207(a) | RSS-Gen §8.8 | AC Power Line Conducted Emission | N/A |
| §15.247(b) (3) | RSS-247 §5.4(4) | Peak Output Power | Compliant |
| §15.247(a)(2) | RSS-247 §5.2 (1) RSS-Gen §6.6 | 6dB & 99% Emission Bandwidth | Compliant |
| §15.247(d) | RSS-247 §5.5 | Conducted Band Edge and Spurious Emission | Compliant |
| §15.247(d) | RSS-247 §5.5 | Radiated Band Edge and Spurious Emission | Compliant |
| §15.247(e) | RSS-247 §5.2(2) | Peak Power Density | Compliant |
| §15.203 §15.247(b) | RSS- Gen §6.8 | Antenna Requirement | Compliant |

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

40 channels are provided for Bluetooth LE

| ITEM | FREQUENCY | ITEM | FREQUENCY | ITEM | FREQUENCY |
|------|-----------|------|-----------|------|-----------|
| 1 | 2402 MHz | 15 | 2430 MHz | 29 | 2458 MHz |
| 2 | 2404 MHz | 16 | 2432 MHz | 30 | 2460 MHz |
| 3 | 2406 MHz | 17 | 2434 MHz | 31 | 2462 MHz |
| 4 | 2408 MHz | 18 | 2436 MHz | 32 | 2464 MHz |
| 5 | 2410 MHz | 19 | 2438 MHz | 33 | 2466 MHz |
| 6 | 2412 MHz | 20 | 2440 MHz | 34 | 2468 MHz |
| 7 | 2414 MHz | 21 | 2442 MHz | 35 | 2470 MHz |
| 8 | 2416MHz | 22 | 2444 MHz | 36 | 2472 MHz |
| 9 | 2418 MHz | 23 | 2446 MHz | 37 | 2474 MHz |
| 10 | 2420 MHz | 24 | 2448 MHz | 38 | 2476 MHz |
| 11 | 2422 MHz | 25 | 2450 MHz | 39 | 2478 MHz |
| 12 | 2424 MHz | 26 | 2452 MHz | 40 | 2480 MHz |
| 13 | 2426 MHz | 27 | 2454 MHz | | |
| 14 | 2428 MHz | 28 | 2456 MHz | | |

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4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

RADIATED EMISSION TEST:

| MODE | AVAILABLE FREQUENCY (MHz) | TESTED FREQUENCY (MHz) | MODULATION | DATA RATE (Mbps) |
|---|---------------------------|------------------------|------------|------------------|
| RADIATED EMISSION TEST (BELOW 1 GHz) | | | | |
| Bluetooth LE | 2402 to 2480 | 2442 | GFSK | 1 |
| RADIATED EMISSION TEST (ABOVE 1 GHz) | | | | |
| Bluetooth LE | 2402 to 2480 | 2402, 2442, 2480 | GFSK | 1 |

Note:
The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for Bluetooth LE Transmitter for channel Low, Mid and High, the worst case H position was reported.

ANTENNA PORT CONDUCTED MEASUREMENT:

| CONDUCTED TEST | | | | |
|----------------|---------------------------|------------------------|------------|------------------|
| MODE | AVAILABLE FREQUENCY (MHz) | TESTED FREQUENCY (MHz) | MODULATION | DATA RATE (Mbps) |
| Bluetooth LE | 2402 to 2480 | 2402, 2442, 2480 | GFSK | 1 |

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5 MEASUREMENT UNCERTAINTY

| Test Items | Uncertainty |
|---|-----------------------------|
| AC Power Line Conducted Emission | +/- 2.586 dB |
| Peak Output Power | +/- 0.84 dB |
| 6dB Bandwidth | +/- 51.33 Hz |
| 100 KHz Bandwidth Of Frequency Band Edges | +/- 0.84 dB |
| Peak Power Density | +/- 1.3 dB |
| Temperature | +/- 0.65 °C |
| Humidity | +/- 4.6 % |
| DC / AC Power Source | DC= +/- 0.13%, AC= +/- 0.2% |

Radiated Spurious Emission:

| | |
|--|----------------------------|
| Measurement uncertainty (Polarization : Vertical) | 9kHz – 30MHz: +/- 2.87 dB |
| | 30MHz - 180MHz: +/- 3.37dB |
| | 180MHz -417MHz: +/- 3.19dB |
| | 0.417GHz-1GHz: +/- 3.19dB |
| | 1GHz - 18GHz: +/- 4.04dB |
| | 18GHz - 40GHz: +/- 4.04dB |

| | |
|--|----------------------------|
| Measurement uncertainty (Polarization : Horizontal) | 9kHz – 30MHz: +/- 2.87 dB |
| | 30MHz - 167MHz: +/- 4.22dB |
| | 167MHz -500MHz: +/- 3.44dB |
| | 0.5GHz-1GHz: +/- 3.39dB |
| | 1GHz - 18GHz: +/- 4.08dB |
| | 18GHz - 40GHz: +/- 4.08dB |

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

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6 CONDUCTED EMISSION TEST

6.1 Standard Applicable:

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

| Frequency range MHz | Limits dB(uV) | |
|------------------------|------------------|----------|
| | 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 |

Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

6.2 Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|-------------|-------------------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EMI Test Receiver | R&S | ESCI7 | 100760 | 05/11/2017 | 05/10/2018 |
| LISN | SCHWARZBECK | NSLK 8127 | 8127-649 | 05/22/2017 | 05/21/2018 |
| LISN | MESS TEC | FCC-LISN-50/250-25-2-01 | 4034 | 03/19/2017 | 03/18/2018 |
| Coaxial Cables | N/A | WK CE Cable | N/A | 11/26/2016 | 11/25/2017 |

6.3 EUT Setup:

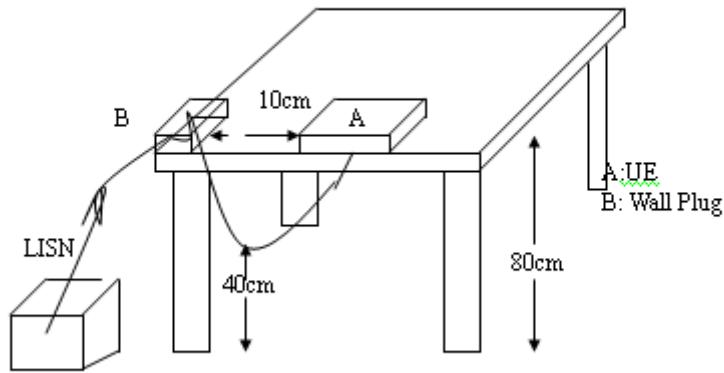
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plan.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed

6.6 Measurement Result:

N/A, EUT is powered by 3Vdc battery.

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7 PEAK OUTPUT POWER MEASUREMENT

7.1 Standard Applicable:

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

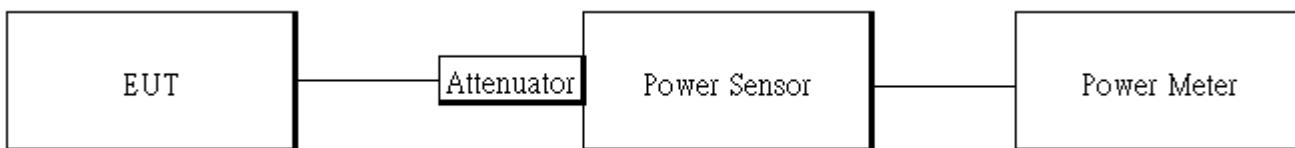
If the transmitting antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

7.2 Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|---------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Power Meter | Anritsu | ML2495A | 1005007 | 12/15/2016 | 12/14/2017 |
| Power Sensor | Anritsu | MA2411B | 917032 | 12/15/2016 | 12/14/2017 |
| EXA Spectrum Analyzer | Agilent | N9030A | MY53120760 | 03/21/2017 | 03/20/2018 |
| DC Block | Mini-Circuits | BLK-18-S+ | 1 | 01/05/2017 | 01/04/2018 |
| Coaxial Cable | HU-BER+SUHNER | SUCOFLEX 102 | 23670/2 | 01/05/2017 | 01/04/2018 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 2 | 01/05/2017 | 01/04/2018 |
| Splitter | Agilent | 11636B | N/A | 01/05/2017 | 01/04/2018 |
| DC Power Supply | Agilent | E3640A | MY52410006 | 11/21/2016 | 11/20/2017 |
| Temperature Chamber | TERCHY | MHG-120LF | 911009 | 05/19/2017 | 05/18/2018 |

7.3 Test Set-up:



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7.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas Guidance & ANSI C63.10..
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.

Power Meter:

It is used as the auxiliary test equipment to conduct the output power measurement.

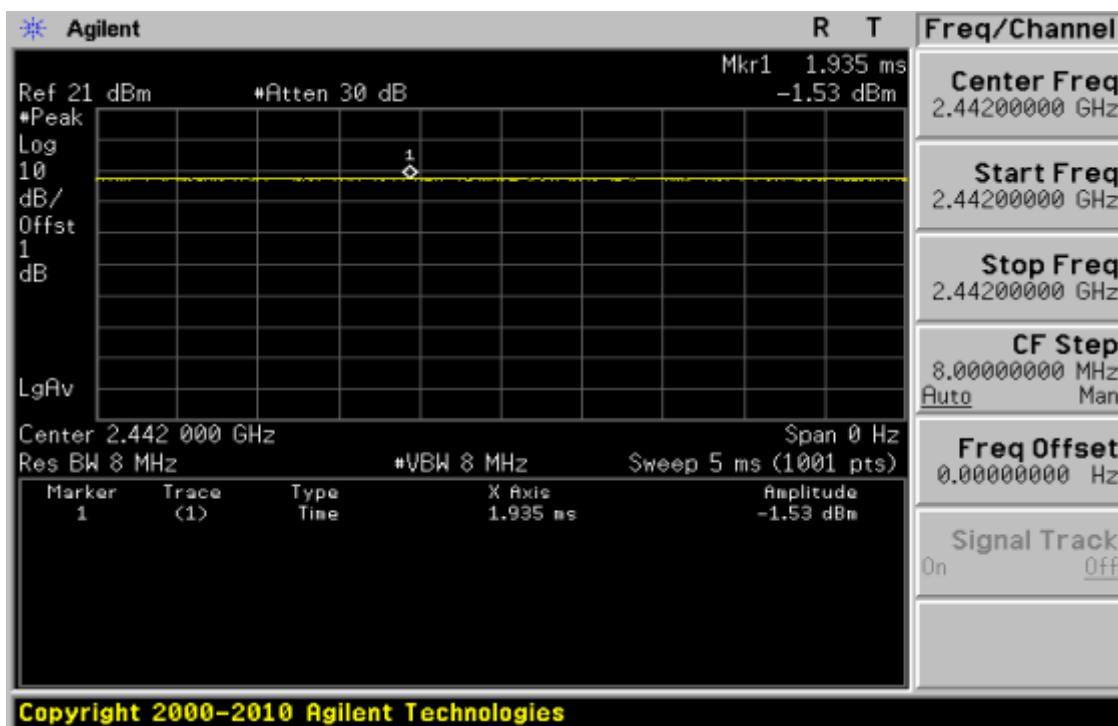
4. Record the max. Reading as observed from Power Meter.
5. Repeat above procedures until all test default channel measured was complete.

Formula:

$$\text{Duty Cycle} = \text{Ton} / (\text{Ton} + \text{Toff})$$

Duty Factor:

| | Duty Cycle (%) | Duty Factor (dB) | 1/T (kHz) | VBW setting (kHz) |
|-----|----------------|------------------|-----------|-------------------|
| BLE | 99.99 | 0.00 | 0.20 | 1.00 |



$$\text{Duty Cycle Factor: } 10 * \log(1/(62.66/100)) = 2.03$$

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7.5 Measurement Result:

BLE mode:

| CH | Frequency (MHz) | Peak Power Output (dBm) | Required Limit |
|----|-----------------|-------------------------|-----------------|
| 0 | 2402 | 0.68 | 1 Watt = 30 dBm |
| 20 | 2442 | 0.01 | 1 Watt = 30 dBm |
| 39 | 2480 | -1.01 | 1 Watt = 30 dBm |

BLE mode:

| CH | Frequency (MHz) | Max. Avg. Output include tune up tolerance Power (dBm) | Required Limit |
|----|-----------------|--|-----------------|
| 0 | 2402 | -0.37 | 1 Watt = 30 dBm |
| 20 | 2442 | -1.53 | 1 Watt = 30 dBm |
| 39 | 2480 | -2.56 | 1 Watt = 30 dBm |

*Note: Measured by power meter, cable loss as 0.45 dB that offsets on the power meter in Peak

*Note: Measured by power meter, as cable loss+ Duty cycle factor that offsets on the power meter

*Note: Max. Output include tune up tolerance Power is average power

EIRP

| CH | Frequency (MHz) | Max. Avg. Output include tune up tolerance Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit |
|----|-----------------|--|--------------------|------------|------------|
| 0 | 2402 | -0.37 | -4.69 | -5.06 | 4W= 36 dBm |
| 20 | 2442 | -1.53 | -4.69 | -6.22 | 4W= 36 dBm |
| 39 | 2480 | -2.56 | -4.69 | -7.25 | 4W= 36 dBm |

* Note: EIRP = Average Power + Gain

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8 6DB & 99% BANDWIDTH MEASUREMENT

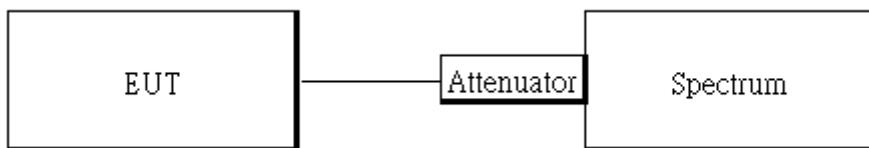
8.1 Standard Applicable

The minimum 6 dB bandwidth shall be at least 500 kHz.

8.2 Measurement Equipment Used

| Conducted Emission Test Site | | | | | |
|------------------------------|---------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Power Meter | Anritsu | ML2495A | 1005007 | 12/15/2016 | 12/14/2017 |
| Power Sensor | Anritsu | MA2411B | 917032 | 12/15/2016 | 12/14/2017 |
| EXA Spectrum Analyzer | Agilent | N9030A | MY53120760 | 03/21/2017 | 03/20/2018 |
| DC Block | Mini-Circuits | BLK-18-S+ | 1 | 01/05/2017 | 01/04/2018 |
| Coaxial Cable | HU-BER+SUHNER | SUCOFLEX 102 | 23670/2 | 01/05/2017 | 01/04/2018 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 2 | 01/05/2017 | 01/04/2018 |
| Splitter | Agilent | 11636B | N/A | 01/05/2017 | 01/04/2018 |
| DC Power Supply | Agilent | E3640A | MY52410006 | 11/21/2016 | 11/20/2017 |
| Temperature Chamber | TERCHY | MHG-120LF | 911009 | 05/19/2017 | 05/18/2018 |

8.3 Test Set-up:



8.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance & ANSI C63.10.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. For 6dB Bandwidth:
Set the spectrum analyzer as RBW=100 kHz, VBW= 3*RBW, Span = 5MHz, Detector=Peak, Sweep=auto.
5. Mark the peak frequency and -6dB (upper and lower) frequency.
6. For 99% Bandwidth:
Set the spectrum analyzer as RBW=1%, VBW=3*RBW, Span = 2MHz, Detector=Sample, Sweep=auto.
7. Turn on the 99% bandwidth function, max reading.
8. Repeat above procedures until all test default channel is completed

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8.5 Measurement Result:

BLE mode

| Frequency (MHz) | 6dB BW (MHz) | BW (MHz) | Result |
|-----------------|--------------|----------|--------|
| 2402 | 670.61 | > 0.5 | PASS |
| 2442 | 657.93 | > 0.5 | PASS |
| 2480 | 694.58 | > 0.5 | PASS |

BLE mode

| Frequency (MHz) | 99%Bandwidth (MHz) |
|-----------------|--------------------|
| 2402 | 1.0669 |
| 2442 | 1.0668 |
| 2480 | 1.0667 |

Note: Refer to next page for plots.

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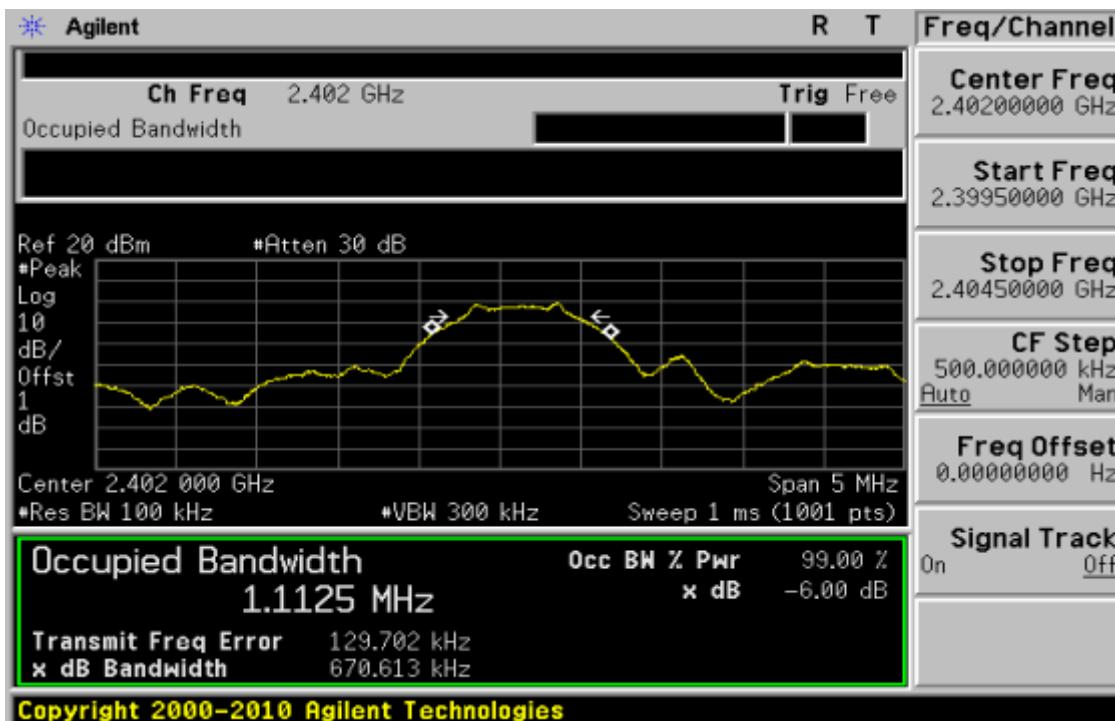
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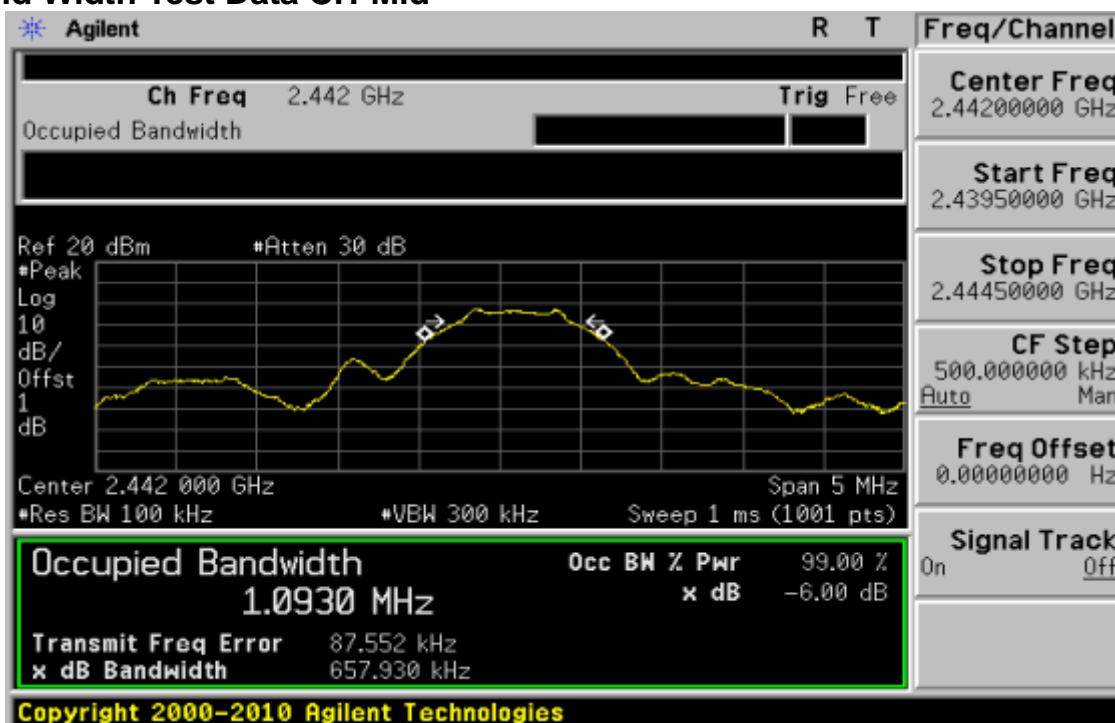
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6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid

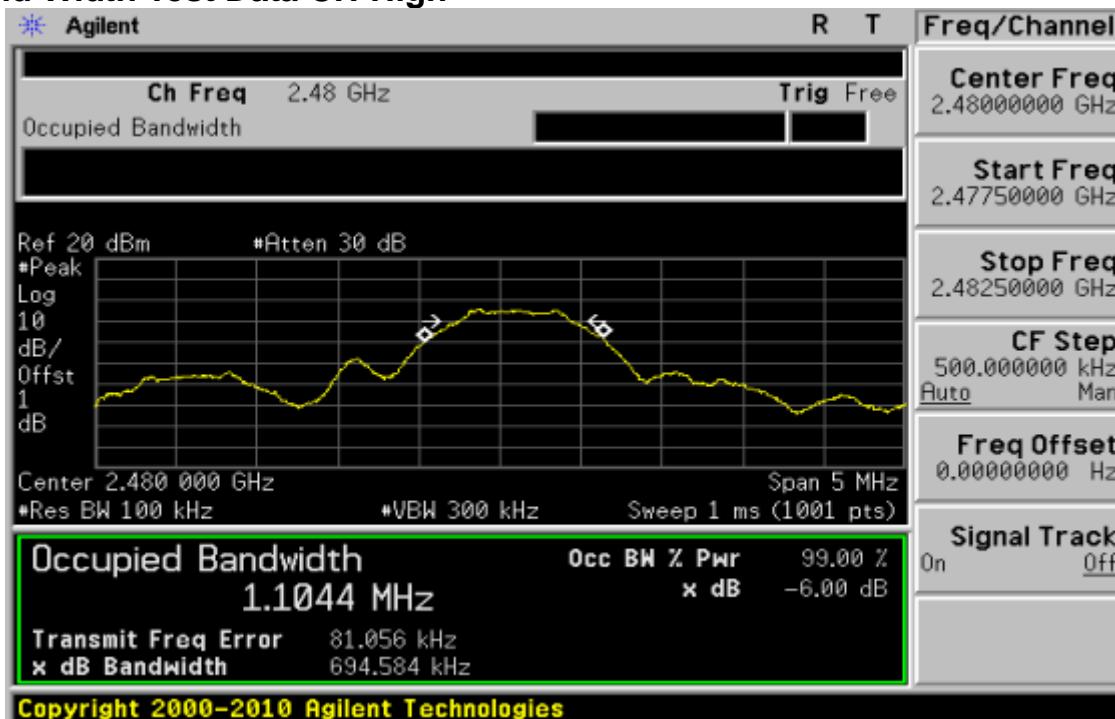


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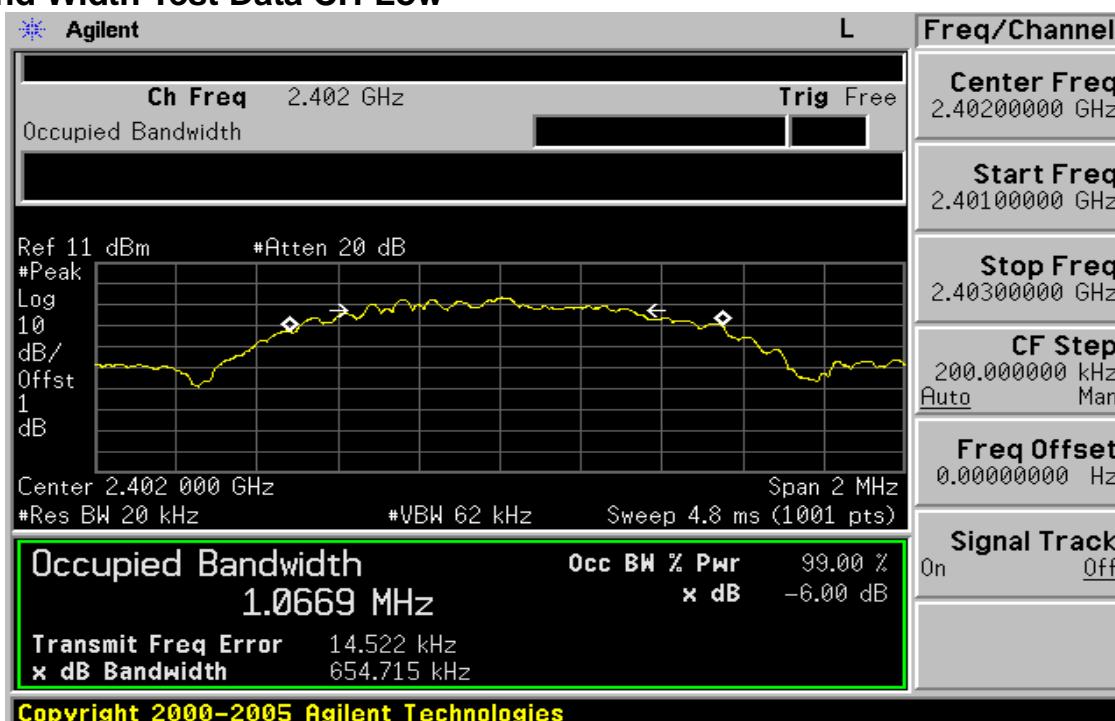
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6dB Band Width Test Data CH-High



99% Band Width Test Data CH-Low

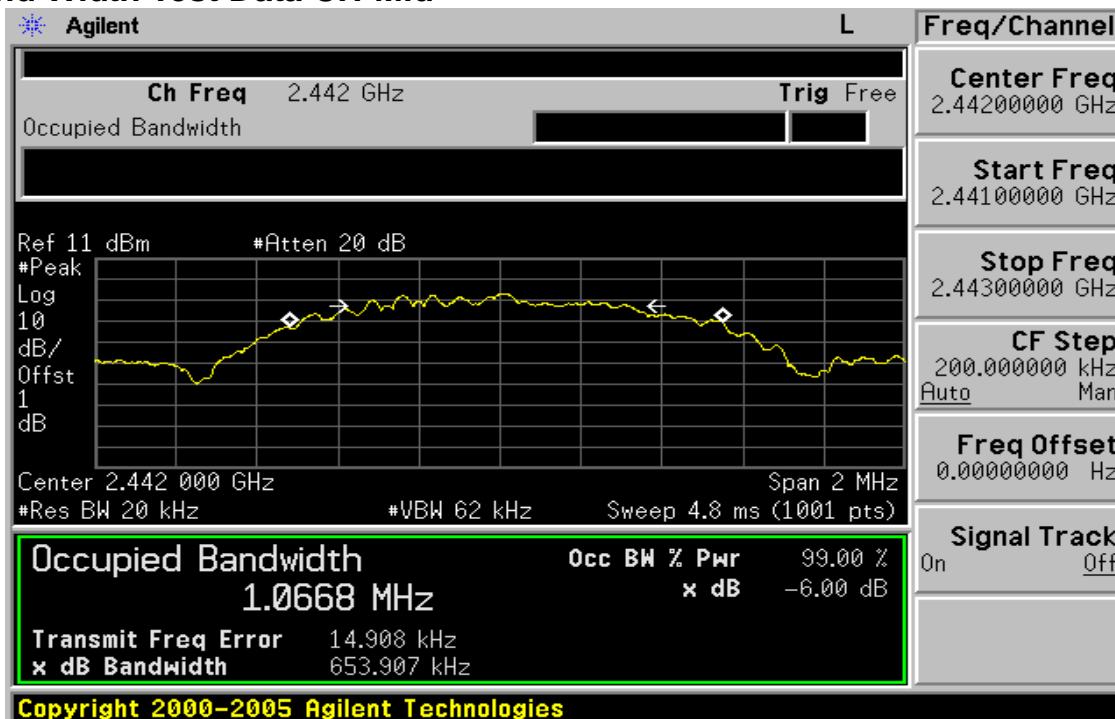


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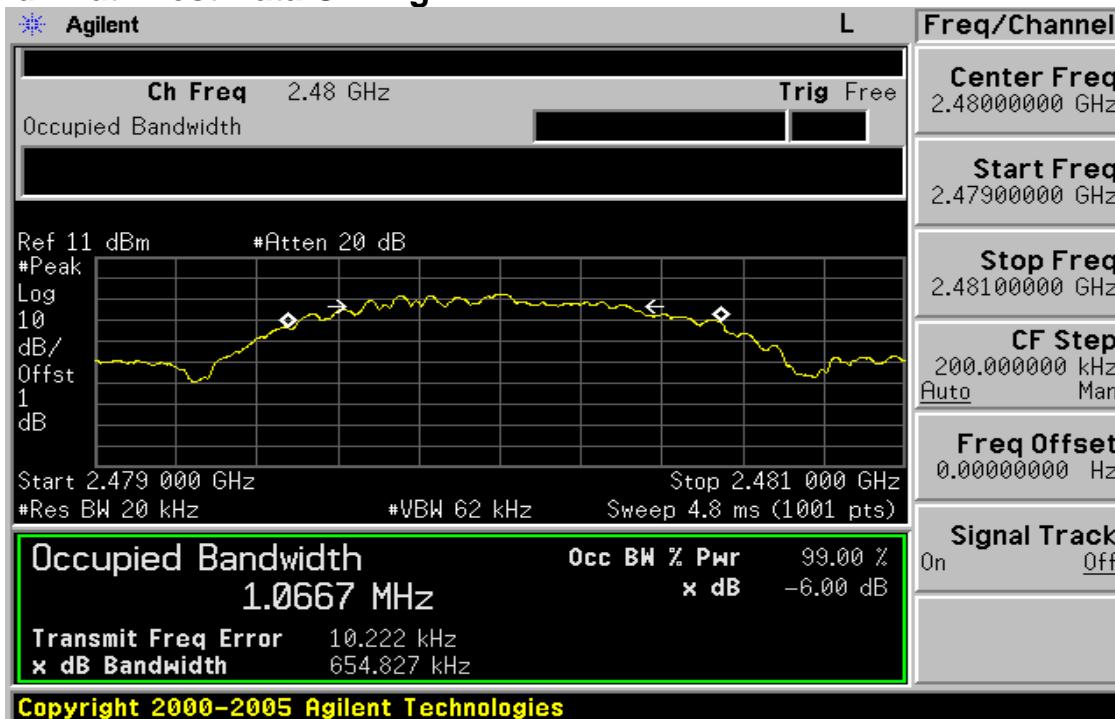
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99% Band Width Test Data CH-Mid



99% Band Width Test Data CH-High



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9 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

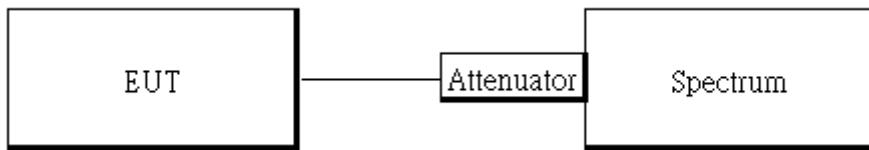
9.1 Standard Applicable

In any 100 kHz 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 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) & RSS-Gen §8.10, must also comply with the radiated emission limits specified in §15.209(a) & RSS-Gen §8.8.

9.2 Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|---------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Power Meter | Anritsu | ML2495A | 1005007 | 12/15/2016 | 12/14/2017 |
| Power Sensor | Anritsu | MA2411B | 917032 | 12/15/2016 | 12/14/2017 |
| EXA Spectrum Analyzer | Agilent | N9030A | MY53120760 | 03/21/2017 | 03/20/2018 |
| DC Block | Mini-Circuits | BLK-18-S+ | 1 | 01/05/2017 | 01/04/2018 |
| Coaxial Cable | HU-BER+SUHNER | SUCOFLEX 102 | 23670/2 | 01/05/2017 | 01/04/2018 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 2 | 01/05/2017 | 01/04/2018 |
| Splitter | Agilent | 11636B | N/A | 01/05/2017 | 01/04/2018 |
| DC Power Supply | Agilent | E3640A | MY52410006 | 11/21/2016 | 11/20/2017 |
| Temperature Chamber | TERCHY | MHG-120LF | 911009 | 05/19/2017 | 05/18/2018 |

9.3 Test SET-UP:



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9.4 Measurement Procedure

Reference Level of Emission Limit:

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance & ANSI C63.10.
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 100kHz & VBW = 300 kHz.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.

Conducted Band Edge:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance & ANSI C63.10.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
6. Mark the highest reading of the emission as the reference level measurement.
7. Marker on frequency, 2.3999GHz and 2.4836GHz, and examine shall 100 kHz immediately outside the authorized (2400~2483.5) be attenuated by 20dB at least relative to the maximum emission of power.
8. Repeat above procedures until all default test channel (low, middle, and high) was complete.

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Conducted Spurious Emission:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance & ANSI C63.10.
3. Set RBW = 100 kHz & VBW=300 kHz, Detector =Peak, Sweep = Auto
4. Allow trace to fully stabilize.
5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
6. Repeat above procedures until all default test channel measured were complete.

9.5 Measurement Result

Reference Level of Limit

| Frequency (MHz) | RF Power Density (dBm) | Reference Level of Limit = PSD - 20dB (dBm) |
|-----------------|------------------------|---|
| 2402 | -1.57 | -21.57 |
| 2442 | -0.61 | -20.61 |
| 2480 | -4.14 | -24.14 |

NOTE: cable loss as 0.45dB that offsets in the spectrum

NOTE: Refer to next page for plots.

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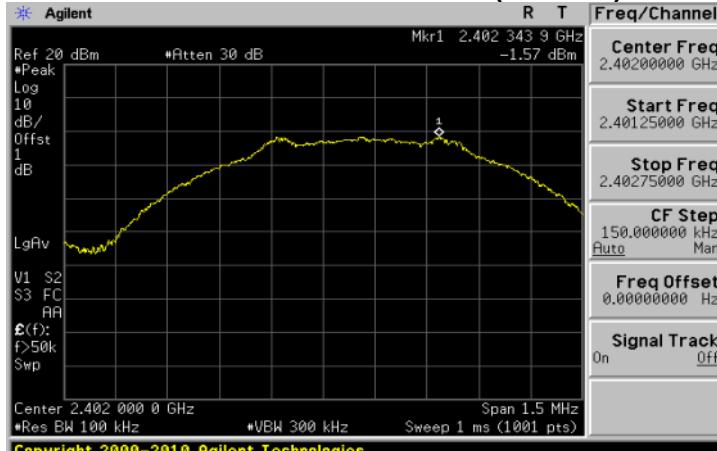
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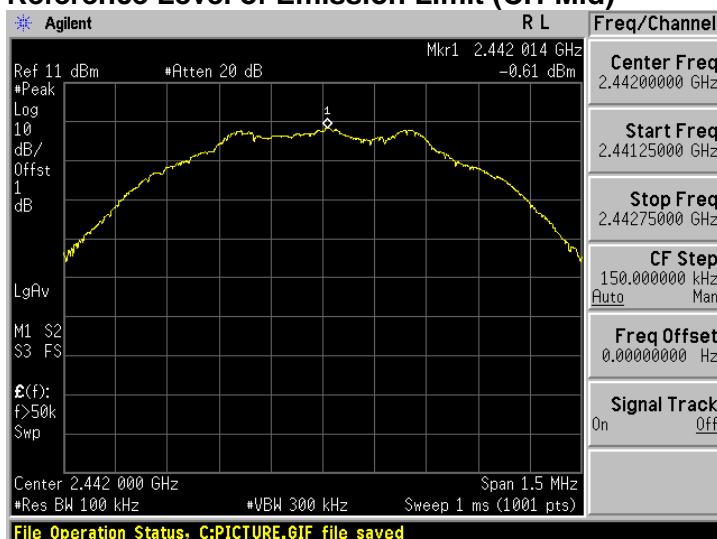
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Reference Level of Emission Limit (CH-Low)

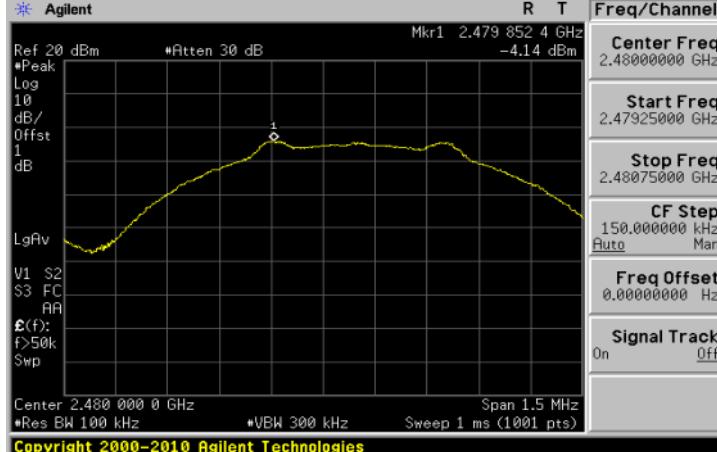


Reference Level of Emission Limit (CH-Mid)

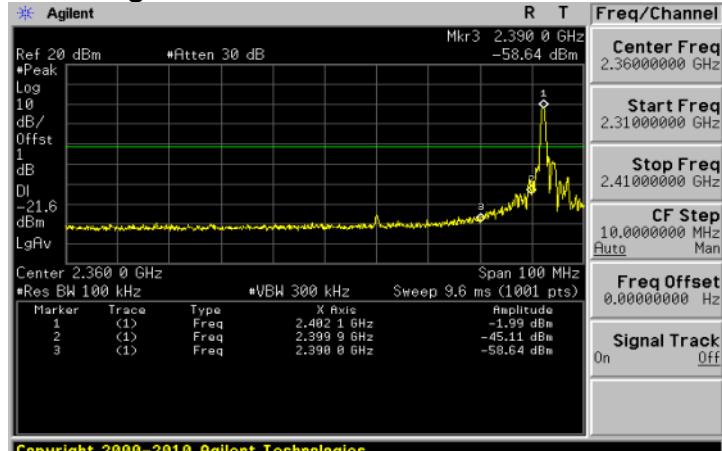


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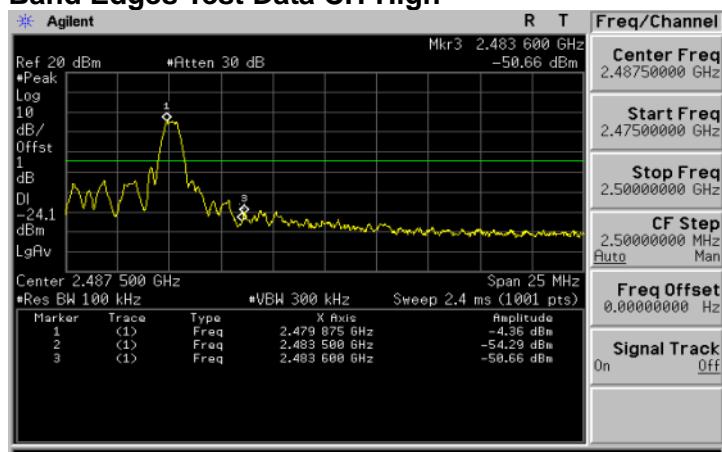
Reference Level of Emission Limit (CH-High)



Band Edges Test Data CH-Low



Band Edges Test Data CH-High



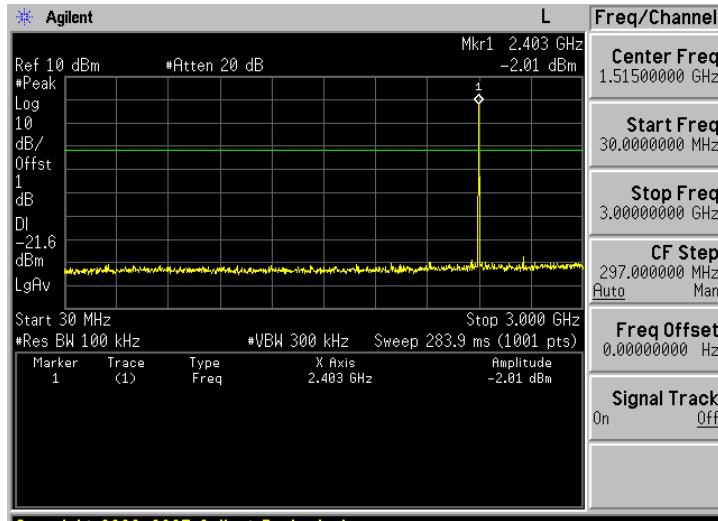
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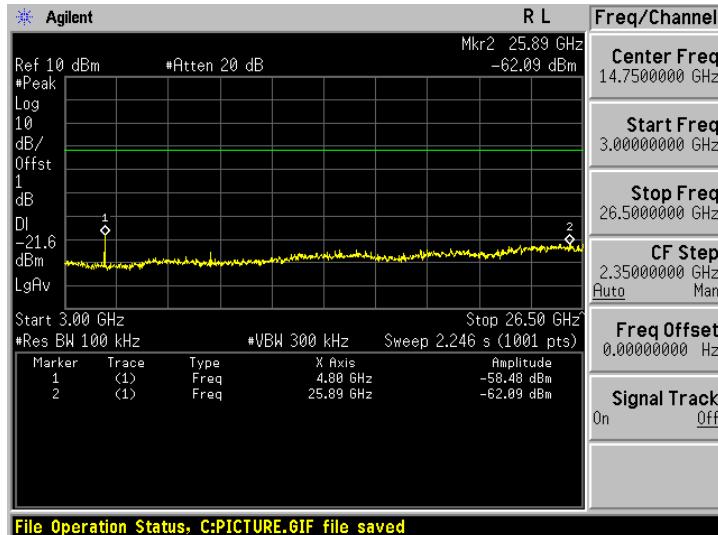


Conducted Spurious Emission Measurement Result CH-Low 30MHz – 3GHz



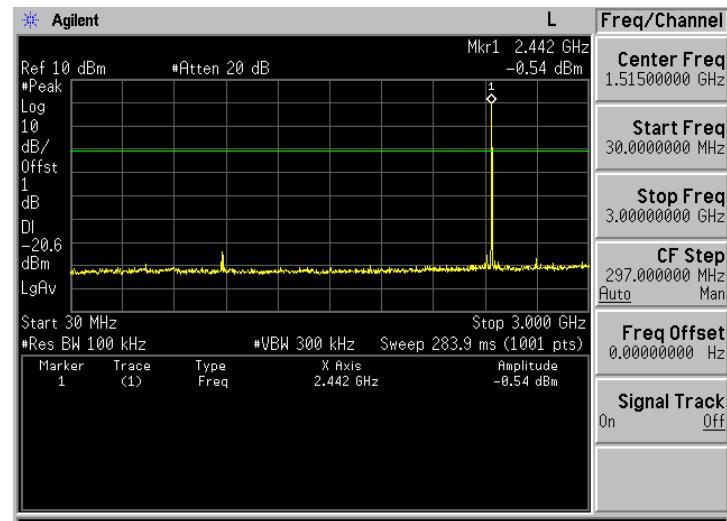
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CH-Low 3GHz – 26.5GHz



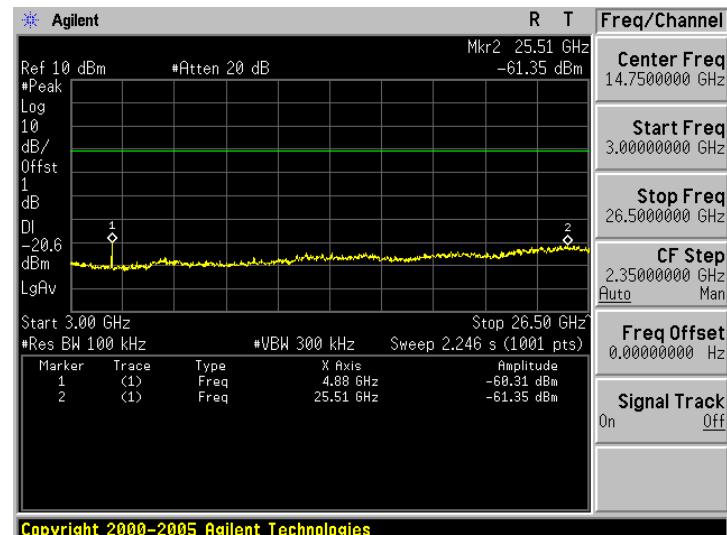
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CH-Mid 30MHz – 3GHz



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CH-Mid 3GHz – 26.5GHz



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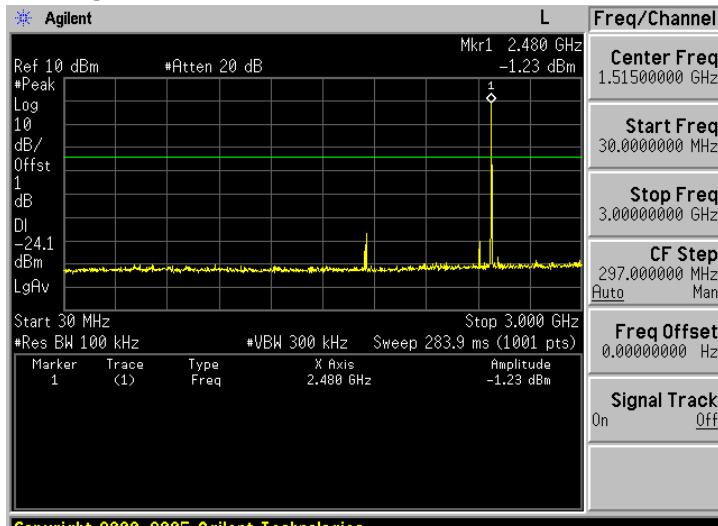
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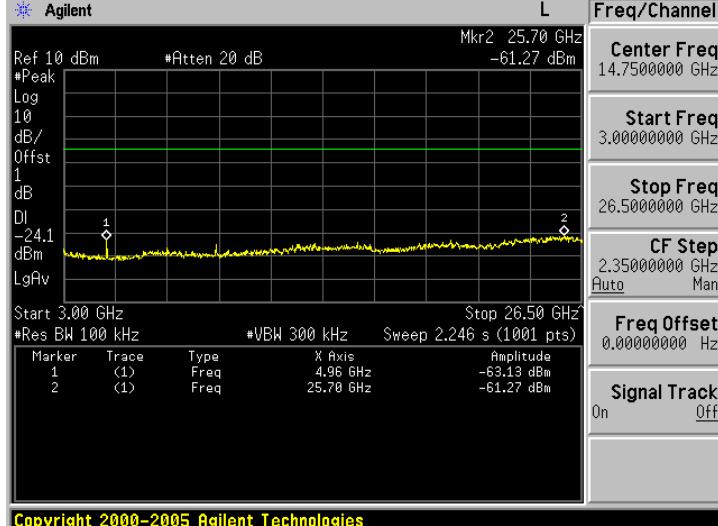


CH-High 30MHz – 3GHz



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CH- High 3GHz – 26.5GHz



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10 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

In any 100 kHz 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 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 must also comply with the §15.209 & RSS-Gen §8.8, 8.9 limit as below.

And according to §15.33(a) (1) & RSS-Gen §6.13(a), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

| Frequency (MHz) | Field strength (microvolts/meter) | Distance (meters) |
|-----------------|-----------------------------------|-------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dB μ V/m) = 20 log Emission level (dB μ V/m)

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10.2 Measurement Equipment Used

| 966 Chamber | | | | | |
|------------------------|-----------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Bi-log Antenna | SCHWAZBECK | VULB9168 | 378 | 12/29/2017 | 12/28/2018 |
| Horn Antenna | Schwarzbeck | BBHA9120D | 1441 | 08/04/2017 | 08/03/2018 |
| Loop Antenna | ETS.LINDGREN | 6502 | 148045 | 09/26/2017 | 09/25/2018 |
| 3m Site NSA | SGS | 966 chamber | N/A | 01/02/2018 | 01/01/2019 |
| Spectrum Analyzer | Agilent | E4446A | MY51100003 | 05/15/2018 | 05/14/2019 |
| EMI Test Receiver | R&S | ESCI7 | 100335 | 02/02/2018 | 02/01/2019 |
| Pre-Amplifier | HP | 8449B | 3008A00578 | 01/02/2018 | 01/01/2019 |
| Pre-Amplifier | HP | 8447D | 2944A07676 | 01/02/2018 | 01/01/2019 |
| Pre-Amplifier | EMC Instruments | EMC184045B | 980135 | 10/27/2017 | 10/26/2018 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 3 | 01/02/2018 | 01/01/2019 |
| Filter 2400-2483.5 MHz | EWT | EWT-14-0166 | M1 | 01/02/2018 | 01/01/2019 |
| Low Loss Cable | Huber Suhner | 966_RX | 9 | 01/02/2018 | 01/01/2019 |
| Notebook | Lenovo | R400 | 7440AV6 | N/A | N/A |

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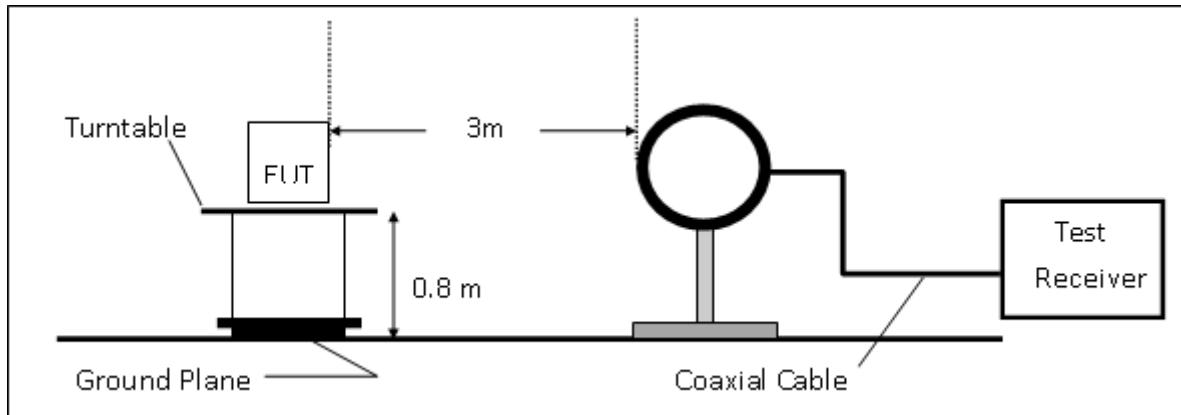
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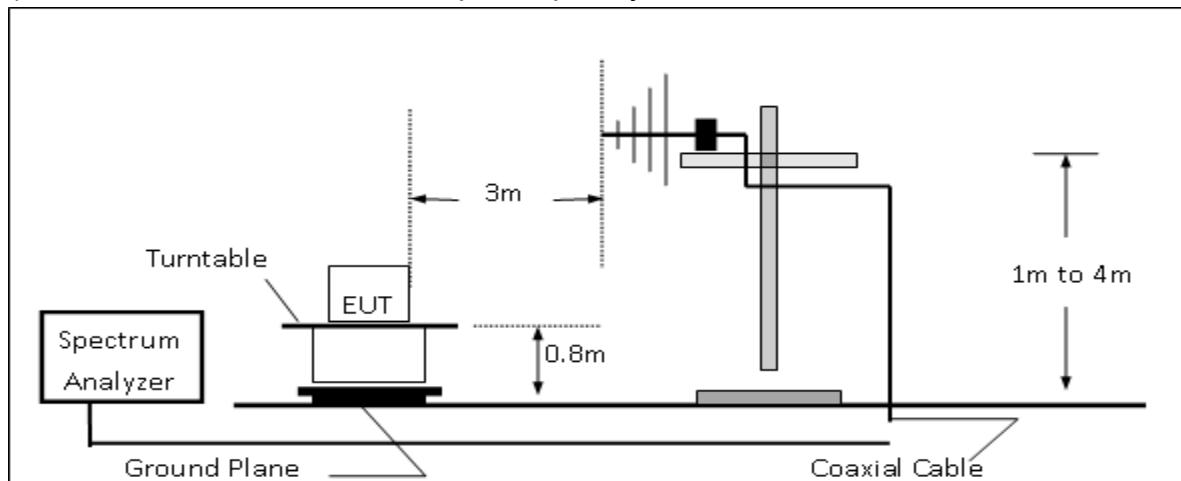
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10.3 Test SET-UP

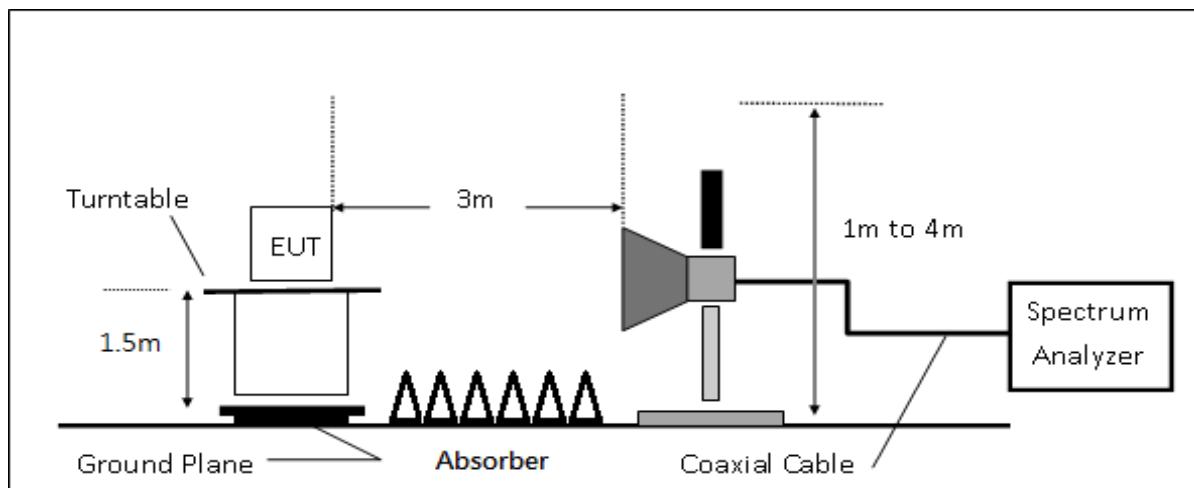
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency from 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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10.4 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance & ANSI C63.10.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plan.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
6. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW \geq 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
8. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
11. Repeat above procedures until all default test channel measured were complete.

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10.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$\mathbf{FS = RA + AF - CL - AG}$$

| | | |
|-------|------------------------|--|
| Where | FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| | RA = Reading Amplitude | AG = Amplifier Gain |
| | AF = Antenna Factor | |

Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

10.6 Test Results of Radiated Spurious Emissions from 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

10.7 Measurement Result:

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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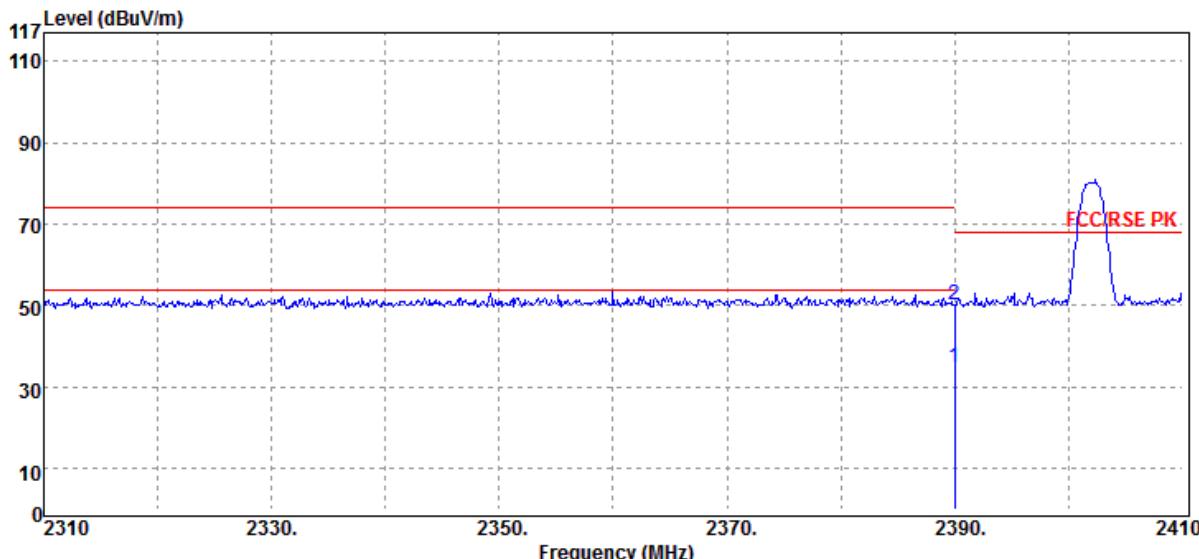
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Radiated Band Edge Measurement Result

| | | | |
|-----------------------|------------------|--------------------------|---------------------|
| Operation Band | :BLE | Test Date | :2018-06-15 |
| Fundamental Frequency | :2402 MHz | Temp./Humi. | :24.1 deg_C / 65 RH |
| Operation Mode | :Bandedge CH LOW | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2390.00 | Average | 34.80 | 0.20 | 35.00 | 54.00 | -19.00 |
| 2390.00 | Peak | 49.89 | 0.20 | 50.09 | 74.00 | -23.91 |

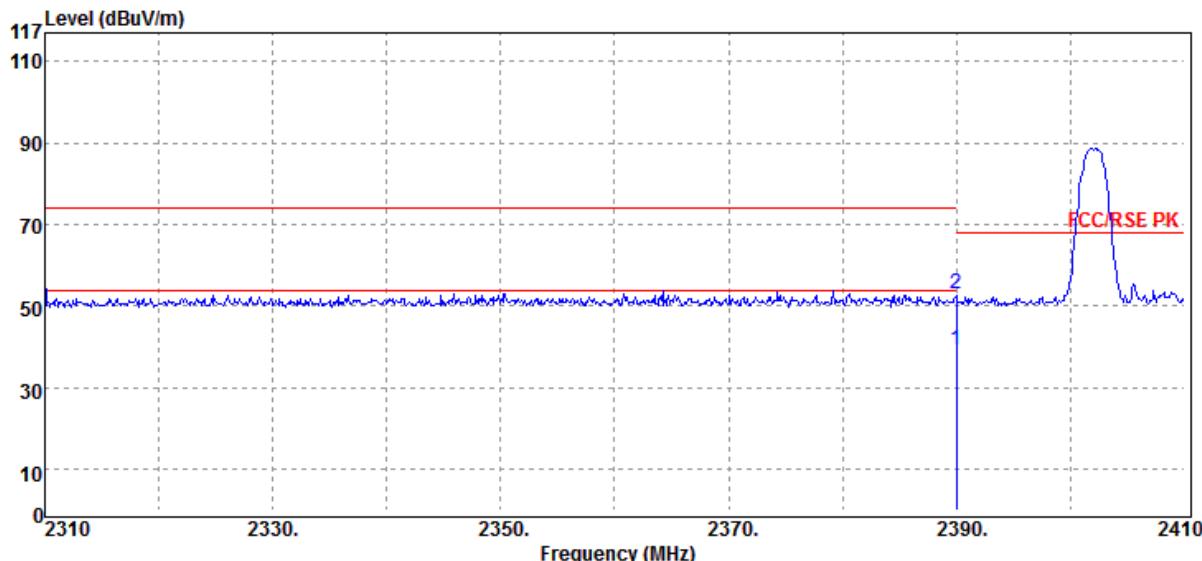
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Operation Band :BLE
Fundamental Frequency :2402 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2018-06-15
Temp./Humi. :24.1 deg_C / 65 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2390.00 | Average | 39.20 | 0.20 | 39.40 | 54.00 | -14.60 |
| 2390.00 | Peak | 52.66 | 0.20 | 52.86 | 74.00 | -21.14 |

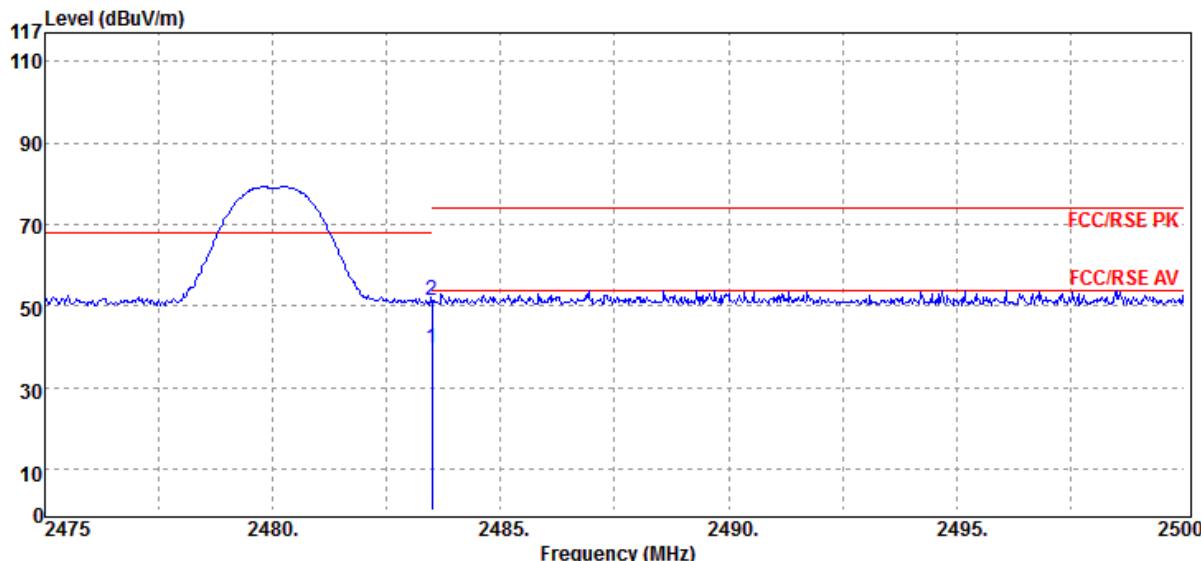
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Operation Band :BLE
 Fundamental Frequency :2480 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2018-06-15
 Temp./Humi. :24.1 deg_C / 65 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2483.50 | Average | 39.14 | 0.53 | 39.67 | 54.00 | -14.33 |
| 2483.50 | Peak | 50.91 | 0.53 | 51.44 | 74.00 | -22.56 |

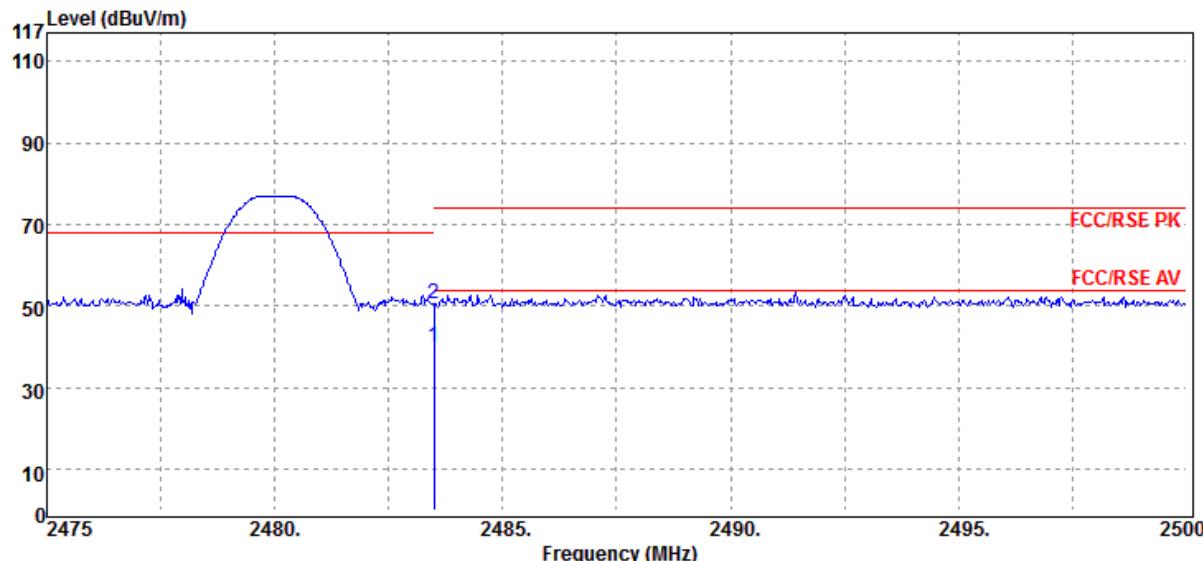
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Operation Band :BLE
 Fundamental Frequency :2480 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2018-06-15
 Temp./Humi. :24.1 deg_C / 65 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2483.50 | Average | 39.38 | 0.53 | 39.91 | 54.00 | -14.09 |
| 2483.50 | Peak | 50.02 | 0.53 | 50.55 | 74.00 | -23.45 |

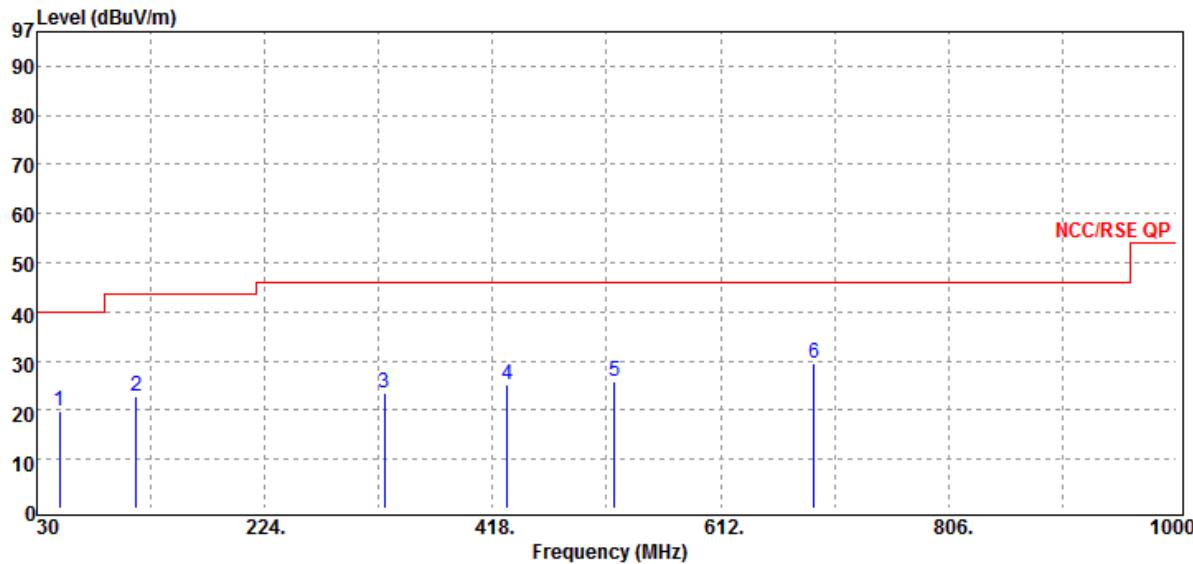
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Radiated Spurious Emission Measurement Result For Frequency from 30MHz to 1000MHz

Operation Band :BLE Test Date :2018-06-15
Fundamental Frequency :2442 MHz Temp./Humi. :24.1 deg_C / 65 RH
Operation Mode :Tx CH MID Engineer :Tin
EUT Pol. :H Plane Measurement Antenna Pol. :HORIZONTAL



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 49.40 | Peak | 27.30 | -7.48 | 19.82 | 40.00 | -20.18 |
| 114.39 | Peak | 33.42 | -10.58 | 22.84 | 43.50 | -20.66 |
| 325.85 | Peak | 28.60 | -5.06 | 23.54 | 46.00 | -22.46 |
| 430.61 | Peak | 27.81 | -2.73 | 25.08 | 46.00 | -20.92 |
| 521.79 | Peak | 27.34 | -1.50 | 25.84 | 46.00 | -20.16 |
| 691.54 | Peak | 28.02 | 1.57 | 29.59 | 46.00 | -16.41 |

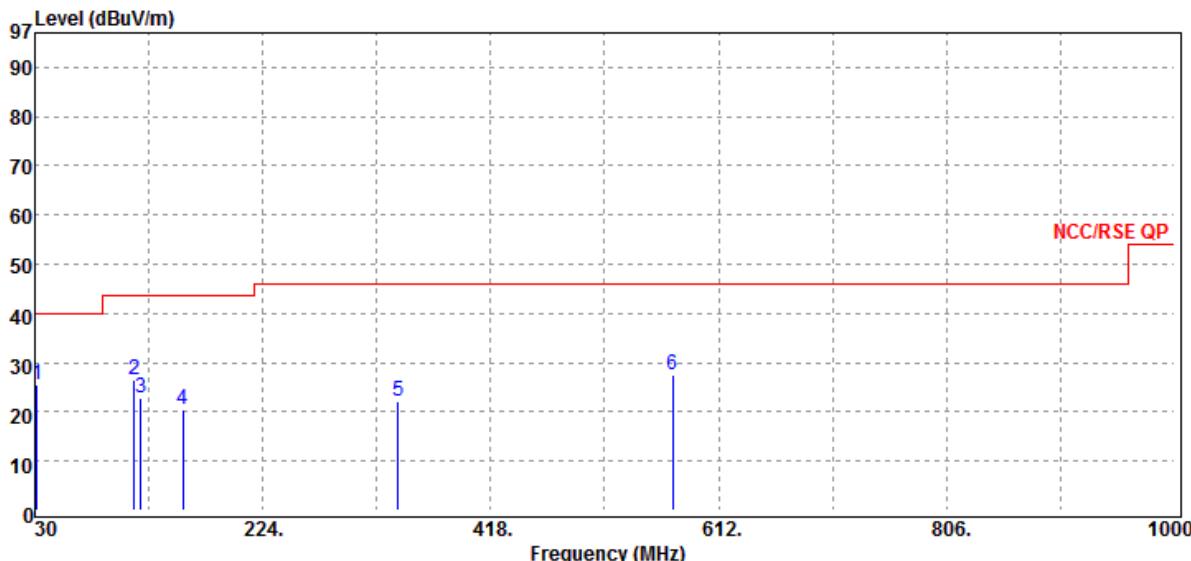
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Operation Band :BLE
 Fundamental Frequency :2442 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2018-06-15
 Temp./Humi. :24.1 deg_C / 65 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 31.94 | Peak | 34.22 | -8.88 | 25.34 | 40.00 | -14.66 |
| 114.39 | Peak | 36.97 | -10.58 | 26.39 | 43.50 | -17.11 |
| 120.21 | Peak | 33.02 | -10.13 | 22.89 | 43.50 | -20.61 |
| 156.10 | Peak | 27.87 | -7.24 | 20.63 | 43.50 | -22.87 |
| 339.43 | Peak | 27.04 | -4.81 | 22.23 | 46.00 | -23.77 |
| 573.20 | Peak | 27.67 | -0.30 | 27.37 | 46.00 | -18.63 |

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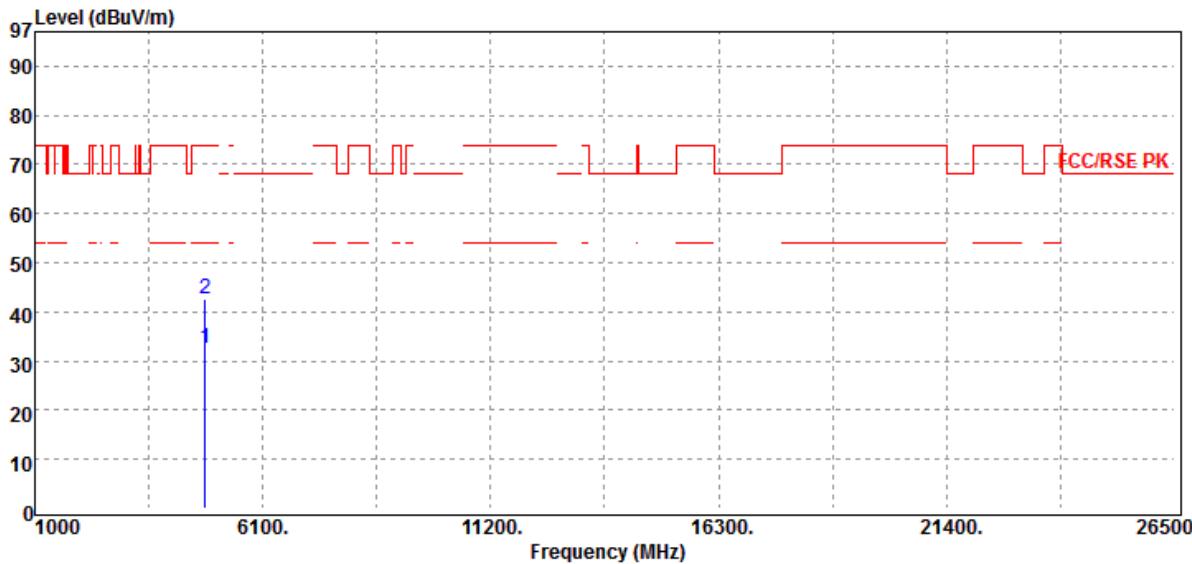
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Radiated Spurious Emission Measurement Result For Frequency above 1GHz

Operation Band :BLE
Fundamental Frequency :2402 MHz
Operation Mode :Tx CH LOW
EUT Pol. :H Plane

Test Date :2018-06-15
Temp./Humi. :24.1 deg_C / 65 RH
Engineer :Tin
Measurement Antenna Pol. :VERTICAL



| Freq. | Detector Mode | Spectrum Reading | Factor | Actual FS | Limit @3m | Margin |
|---------|---------------|------------------|--------|-----------|-----------|--------|
| MHz | PK/QP/AV | Level dBµV | dB | dBµV/m | dBµV/m | dB |
| 4804.00 | Average | 25.11 | 7.38 | 32.49 | 54.00 | -21.51 |
| 4804.00 | Peak | 35.36 | 7.38 | 42.74 | 74.00 | -31.26 |

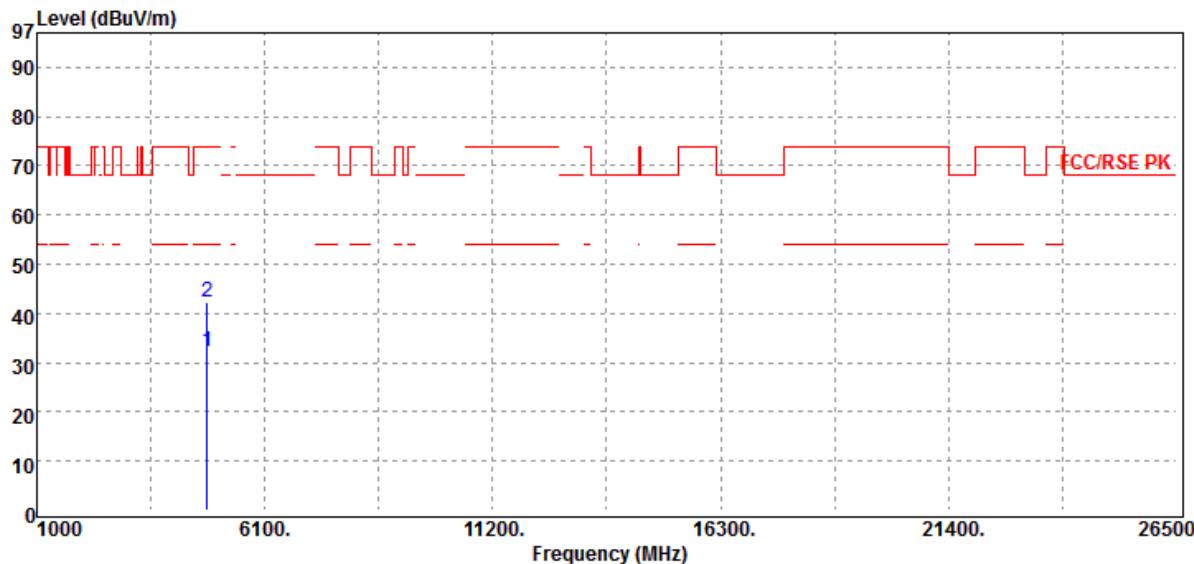
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Operation Band :BLE
Fundamental Frequency :2402 MHz
Operation Mode :Tx CH LOW
EUT Pol. :H Plane

Test Date :2018-06-15
Temp./Humi. :24.1 deg_C / 65 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4804.00 | Average | 24.96 | 7.38 | 32.34 | 54.00 | -21.66 |
| 4804.00 | Peak | 34.78 | 7.38 | 42.16 | 74.00 | -31.84 |

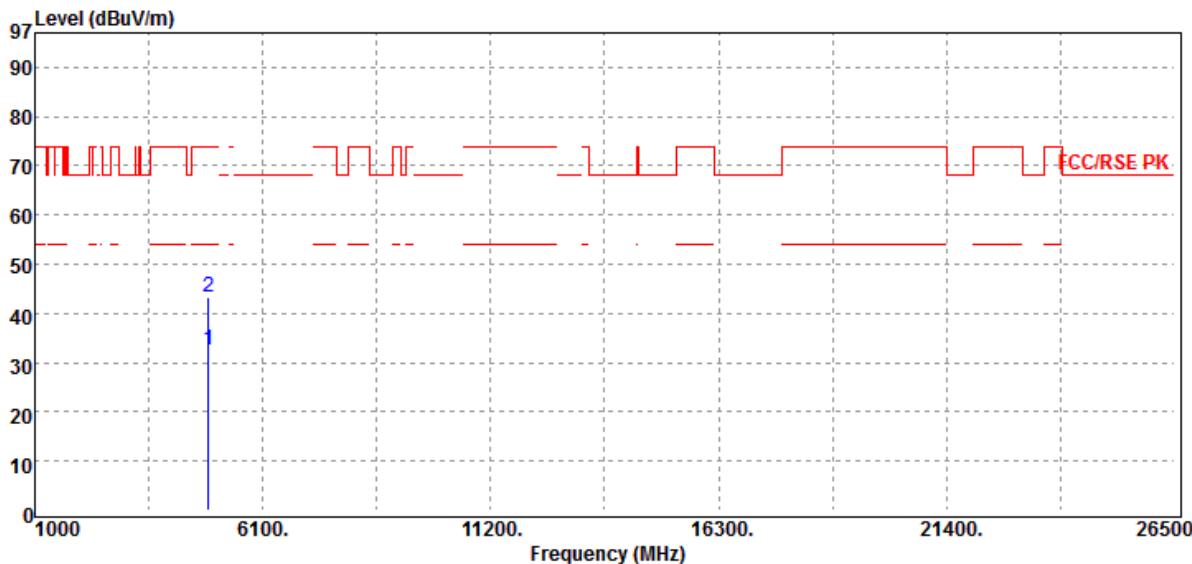
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Operation Band :BLE
Fundamental Frequency :2442 MHz
Operation Mode :Tx CH MID
EUT Pol. :H Plane

Test Date :2018-06-15
Temp./Humi. :24.1 deg_C / 65 RH
Engineer :Tin
Measurement Antenna Pol. :VERTICAL



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4884.00 | Average | 24.88 | 7.66 | 32.54 | 54.00 | -21.46 |
| 4884.00 | Peak | 35.76 | 7.66 | 43.42 | 74.00 | -30.58 |

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Operation Band :BLE
Fundamental Frequency :2442 MHz
Operation Mode :Tx CH MID
EUT Pol. :H Plane

Test Date :2018-06-15
Temp./Humi. :24.1 deg_C / 65 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4884.00 | Average | 24.74 | 7.66 | 32.40 | 54.00 | -21.60 |
| 4884.00 | Peak | 35.53 | 7.66 | 43.19 | 74.00 | -30.81 |

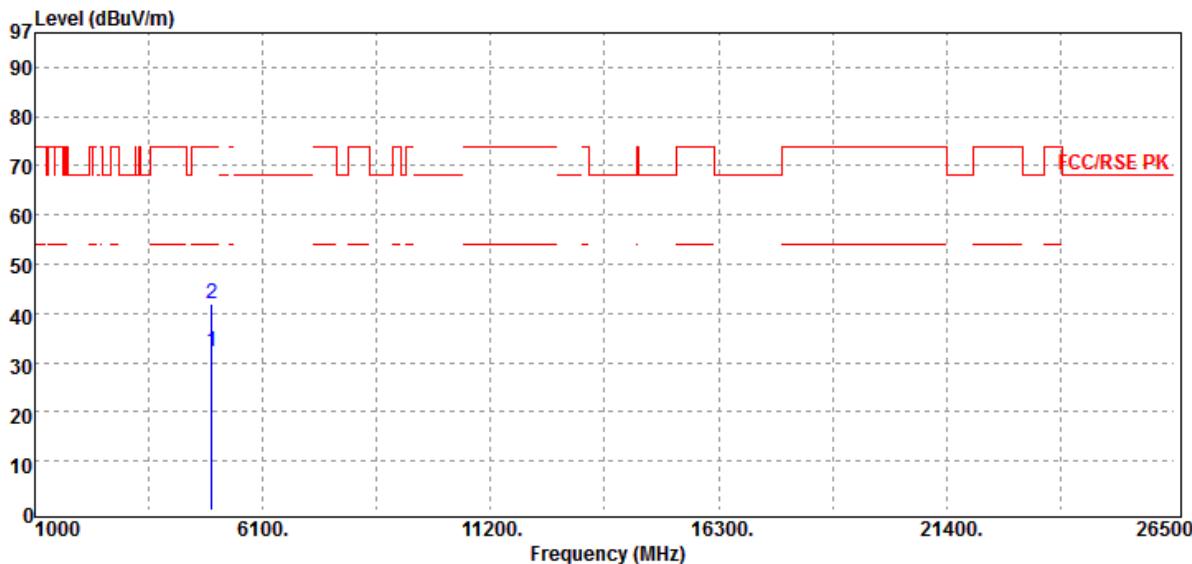
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Operation Band :BLE
Fundamental Frequency :2480 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :H Plane

Test Date :2018-06-15
Temp./Humi. :24.1 deg_C / 65 RH
Engineer :Tin
Measurement Antenna Pol. :VERTICAL



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4960.00 | Average | 24.58 | 7.80 | 32.38 | 54.00 | -21.62 |
| 4960.00 | Peak | 34.01 | 7.80 | 41.81 | 74.00 | -32.19 |

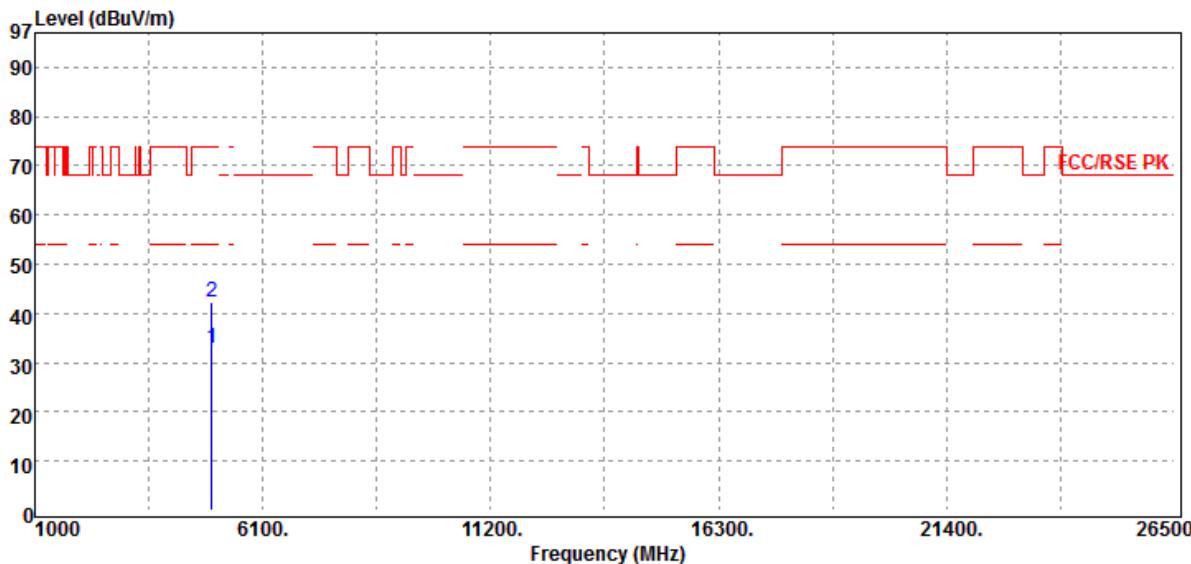
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Operation Band :BLE
Fundamental Frequency :2480 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :H Plane

Test Date :2018-06-15
Temp./Humi. :24.1 deg_C / 65 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4960.00 | Average | 24.95 | 7.80 | 32.75 | 54.00 | -21.25 |
| 4960.00 | Peak | 34.53 | 7.80 | 42.33 | 74.00 | -31.67 |

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11 PEAK POWER SPECTRAL DENSITY

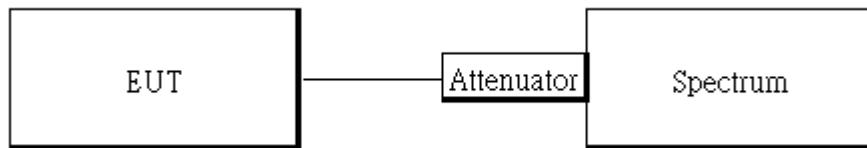
11.1 Standard Applicable:

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

11.2 Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|---------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Power Meter | Anritsu | ML2495A | 1005007 | 12/15/2016 | 12/14/2017 |
| Power Sensor | Anritsu | MA2411B | 917032 | 12/15/2016 | 12/14/2017 |
| EXA Spectrum Analyzer | Agilent | N9030A | MY53120760 | 03/21/2017 | 03/20/2018 |
| DC Block | Mini-Circuits | BLK-18-S+ | 1 | 01/05/2017 | 01/04/2018 |
| Coaxial Cable | HU-BER+SUHNER | SUCOFLEX 102 | 23670/2 | 01/05/2017 | 01/04/2018 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 2 | 01/05/2017 | 01/04/2018 |
| Splitter | Agilent | 11636B | N/A | 01/05/2017 | 01/04/2018 |
| DC Power Supply | Agilent | E3640A | MY52410006 | 11/21/2016 | 11/20/2017 |
| Temperature Chamber | TERCHY | MHG-120LF | 911009 | 05/19/2017 | 05/18/2018 |

11.3 Test Set-up:



11.4 Measurement Procedure:

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance & ANSI C63.10.
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 3 kHz. & the VBW = 10 kHz
5. For defining Restricted Band Edge Limit:
Set the RBW = 100kHz & VBW = 300 kHz.
6. Detector = peak.
7. Sweep time = auto couple.
8. Trace mode = max hold.
9. Allow trace to fully stabilize.
10. Use the peak marker function to determine the maximum amplitude level.

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11.5 Measurement Result:

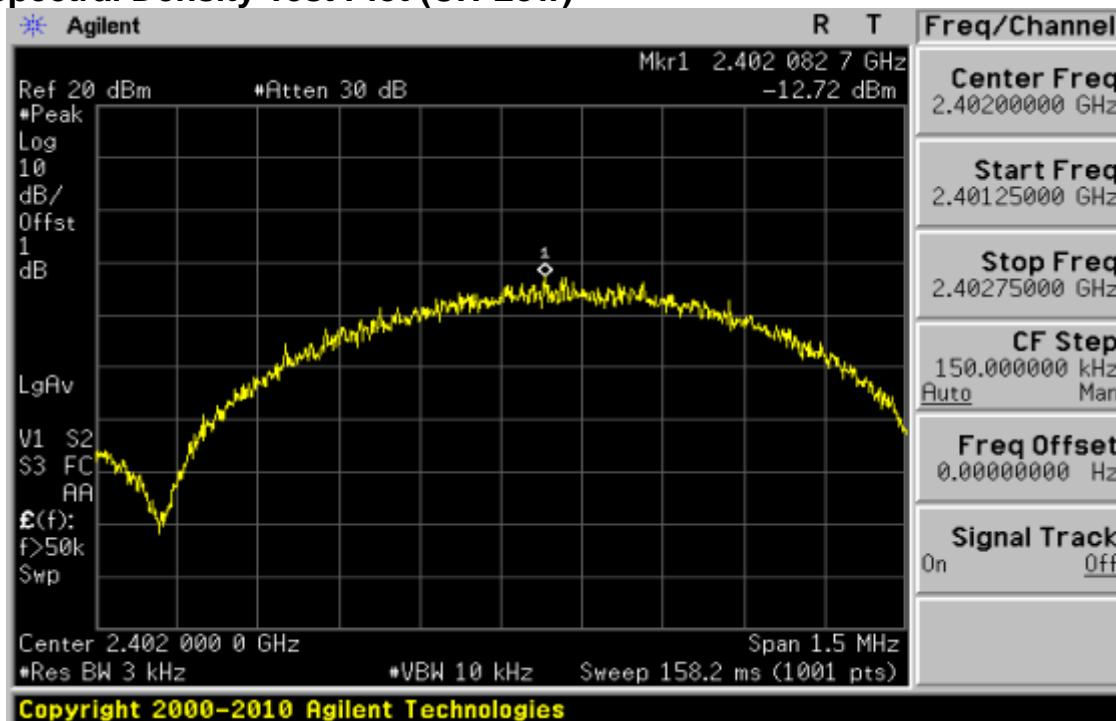
BLE mode

| Frequency (MHz) | RF Power Density (dBm) | Maximum Limit (dBm) | Result |
|-----------------|------------------------|---------------------|--------|
| 2402 | -12.72 | 8 | PASS |
| 2442 | -14.48 | 8 | PASS |
| 2480 | -16.27 | 8 | PASS |

NOTE: cable loss as 0.45dB that offsets in the spectrum

BLE mode

Power Spectral Density Test Plot (CH-Low)



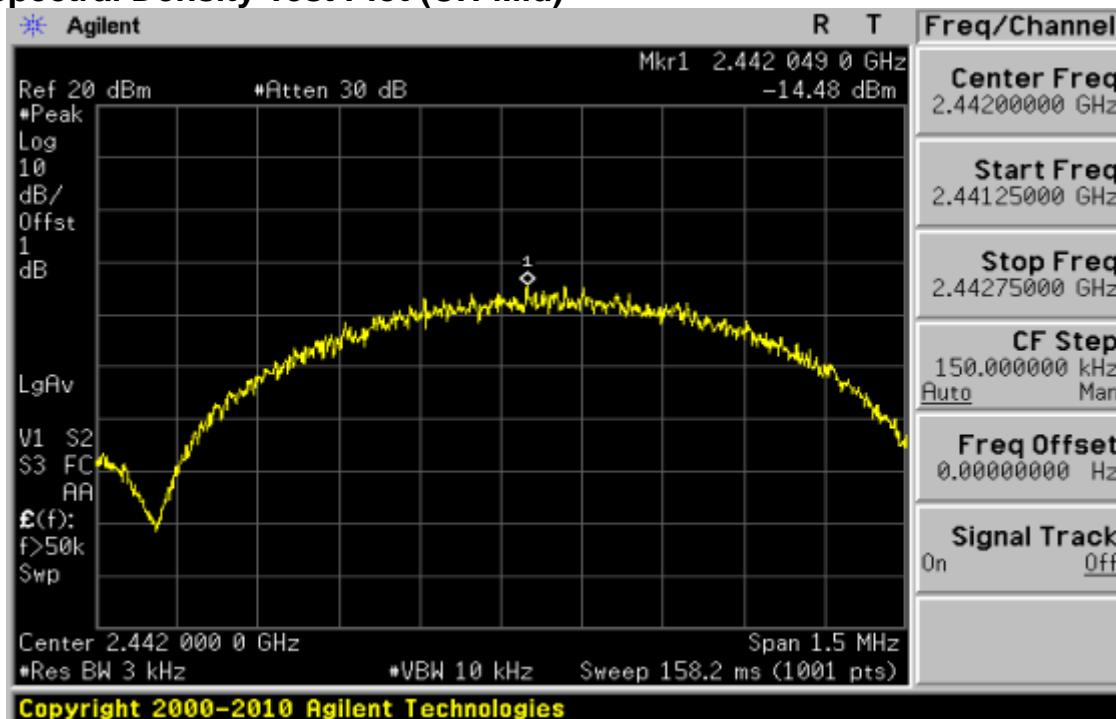
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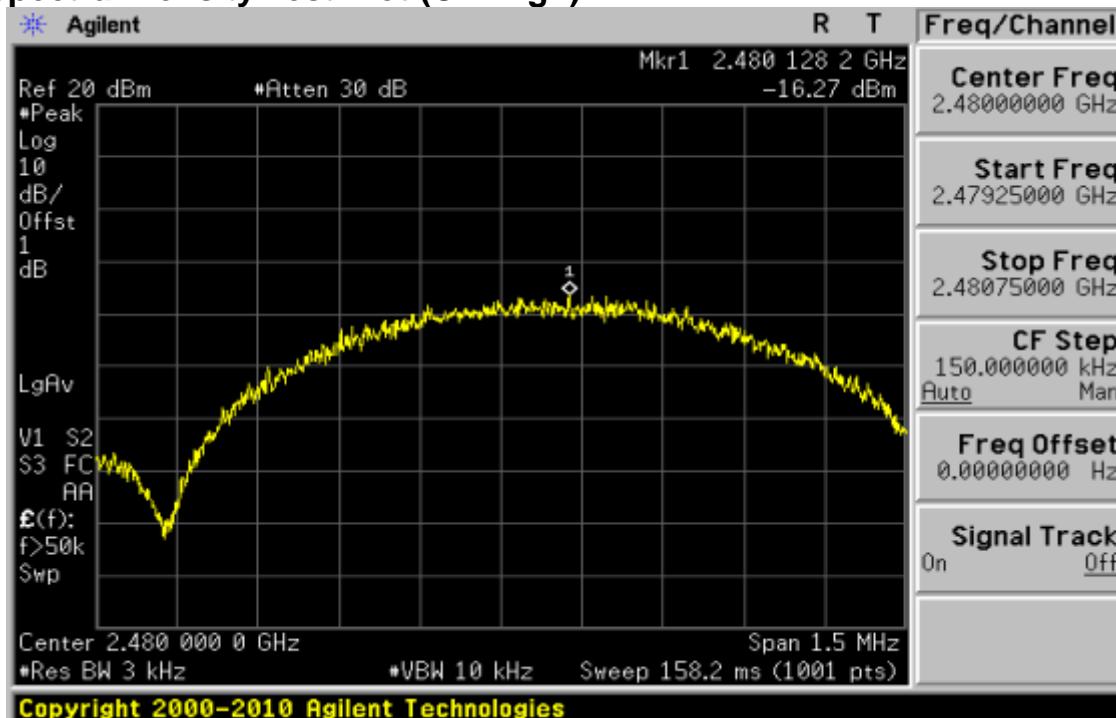
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Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)



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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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12 ANTENNA REQUIREMENT

12.1 Standard Applicable:

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

If the transmitting antenna is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

In case of point-to-point operation, the power shall be reduced by the one dB for every 3 dB that the directional gain of antenna exceeds 6dBi.

12.2 Antenna Connected Construction:

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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