



FCC TEST REPORT

Test report
On Behalf of
DGL Group LTD.
For

SWEAT-PROOF WIRELESS HEADPHONES
Model No.: BDY-4150

FCC ID: 2AANZ4150

Prepared for: DGL Group LTD.

195 Raritan Center Parkway Edison, New Jersey United States 08837

Prepared By: Shenzhen HUAK Testing Technology Co., Ltd.

1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Fuhai Street,

Bao'an District, Shenzhen City, China

Date of Test: Sep. 05, 2018 ~ Sep.13, 2018

Date of Report: Sep. 17, 2018
Report Number: HK1809111030E



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TEST RESULT CERTIFICATION

| Applicant's name: | |
|-------------------------------|---|
| Address | 195 Raritan Center Parkway Edison, New Jersey United States 08837 |
| Manufacture's Name: | DGL Group LTD. |
| Address | 195 Raritan Center Parkway Edison, New Jersey United States 08837 |
| Product description | |
| Trade Mark: | BODY GLOVE |
| Product Name: | SWEAT-PROOF WIRELESS HEADPHONES |
| Model and/or type reference : | BDY-4150 |
| Series Model: | BDY-4150-BLK, BDY-4150-BLU, BDY-4150-PNK, BDY-4150-PRP |
| Difference Description: | All the same except for the appearance color |
| Cton dovdo | FCC Rules and Regulations Part 15 Subpart C Section 15.249 |

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ANSI C63.10: 2013

Date of Issue...... Sep. 17, 2018

Test Result..... Pass

Testing Engineer :

(Gary Qian)

Technical Manager :

(Eden Hu)

Authorized Signatory:

(Jason Zhou)



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1. TEST SUMMARY

1.1. TEST PROCEDURES AND RESULTS

| DESCRIPTION OF TEST | RESULT |
|--------------------------------|-----------|
| CONDUCTED EMISSIONS TEST | COMPLIANT |
| RADIATED EMISSION TEST | COMPLIANT |
| BAND EDGE | COMPLIANT |
| OCCUPIED BANDWIDTH MEASUREMENT | COMPLIANT |
| ANTENNA REQUIREMENT | COMPLIANT |

1.2. TEST FACILITY

Test Firm : Shenzhen HUAK Testing Technology Co., Ltd.

Address : 1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park,

Fuhai Street, Bao'an District, Shenzhen City, China

Designation Number: : CN1229

Test Firm Registration Number: 616276

1.3. MEASUREMENT UNCERTAINTY

Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2 Radiated emission expanded uncertainty(9kHz-30MHz) = 3.08dB, k=2 Radiated emission expanded uncertainty(30MHz-1000MHz) = 4.42dB, k=2 Radiated emission expanded uncertainty(Above 1GHz) = 4.06dB, k=2



2. GENERAL INFORMATION

2.1. GENERAL DESCRIPTION OF EUT

| Operation Frequency | 2.402 GHz to 2.480GHz |
|------------------------|--|
| Bluetooth Version | V4.2 |
| Modulation | BR ⊠GFSK, EDR ⊠π /4-DQPSK, □8DPSK BLE □GFSK |
| Number of channels | 79 for BR/EDR |
| Hardware Version | V1.0 |
| Software Version | V1.0 |
| Antenna Designation | PCB Antenna |
| Antenna Gain | -0.68dBi |
| Power Supply | DC 3.7V by battery |
| • | only used for charging and can't be used to transfer data with PC. 't support 8DPSK and BLE. |



2.2. CARRIER FREQUENCY OF CHANNELS

BR/EDR Channel List

| Frequency Band | Channel Number | Frequency |
|----------------|----------------|-----------|
| | 0 | 2402MHz |
| | 1 | 2403MHz |
| | : | : |
| 2400~2483.5MHz | 38 | 2440 MHz |
| | 39 | 2441 MHz |
| | 40 | 2442 MHz |
| | : | : |
| | 77 | 2479 MHz |
| | 78 | 2480 MHz |

2.3. OPERATION OF EUT DURING TESTING

| NO. | TEST MODE DESCRIPTION |
|------|---------------------------|
| 1 | Low channel GFSK |
| 2 | Middle channel GFSK |
| 3 | High channel GFSK |
| 4 | Low channel π /4-DQPSK |
| 5 | Middle channel π /4-DQPSK |
| 6 | High channel π /4-DQPSK |
| 7 | BT Link with charging |
| 8 | BT Link(Hopping mode) |
| NI-4 | |

Note:

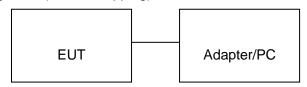
- 1. All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3. The EUT used fully-charged battery when tested.



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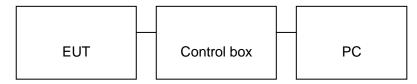
2.4. DESCRIPTION OF TEST SETUP

Configure 1: (Normal hopping)



Note: Owing to the EUT has own battery, and testing may be performed while adapter or PC removed.

Configure 2: (Control continuous TX)



2.5. EQUIPMENT USED IN EUT SYSTEM

| Item | Equipment | Mfr/Brand | Model/Type No. | Remark |
|------|---------------------------------------|------------|-----------------|-----------|
| 1 | SWEAT-PROOF WIRELESS HEADPHONES | BODY GLOVE | BDY-4150 | EUT |
| 2 | Battery | JYZ | 602030 | Accessory |
| 3 | PC | APPLE | A1465 | A.E |
| 4 | Control box | GZUT | N/A | A.E |
| 5 | Adapter | IPRO | NTR-S01 | A.E |
| 6 | USB Cable | N/A | 1m unshielded | A.E |
| 7 | USB Cable | N/A | 0.6m unshielded | Accessory |
| 8 | AUX in Cable | N/A | 1m unshielded | Accessory |
| 9 | IPOD | APPLE | A1367 | A.E |



2.6. MEASUREMENT INSTRUMENTS LIST

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

| Item | Equipment | Equipment Manufacturer Model No. Serial No. | | Last Cal. | Cal. Interval | |
|------|---|---|--------|-----------|------------------|--------|
| 1. | L.I.S.N. Artificial Mains Network | R&S | ENV216 | HKE-002 | Dec. 28, 2017 | 1 Year |
| 2. | Receiver | R&S | ESCI 7 | HKE-010 | Dec. 28, 2017 | 1 Year |

| <u>IESI</u> | TEST EQUIPMENT OF RADIATED EMISSION TEST | | | | | | | | |
|-------------|--|--------------------|--------------|------------|---------------|------------------|--|--|--|
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval | | | |
| 1. | Spectrum analyzer | Agilent | N9020A | HKE-048 | Dec. 28, 2017 | 1 Year | | | |
| 2. | Preamplifier | Schwarzbeck | BBV 9743 | HKE-006 | Dec. 28, 2017 | 1 Year | | | |
| 3. | EMI Test Receiver | Rohde & Schwarz | ESCI 7 | HKE-010 | Dec. 28, 2017 | 1 Year | | | |
| 4. | Bilog Broadband Antenna | Schwarzbeck | VULB9163 | HKE-012 | Dec. 28, 2017 | 1 Year | | | |
| 5. | Loop Antenna | Schwarzbeck | FMZB 1519 B | HKE-014 | Dec. 28, 2017 | 1 Year | | | |
| 6. | Horn Antenna | Schewarzbeck | 9120D | HKE-013 | Dec. 28, 2017 | 1 Year | | | |
| 7. | Broad-band Horn Antenna | Schewarzbeck | LB-180400-KF | HKE-031 | Dec. 28, 2017 | 1 Year | | | |
| 8. | Pre-amplifier | EMCI | EMC051845SE | HKE-015 | Dec. 28, 2017 | 1 Year | | | |
| 9. | Pre-amplifier | Agilent | 83051A | HKE-016 | Dec. 28, 2017 | 1 Year | | | |
| 10. | Filter (2.4-2.483GHz) | Micro-tronics | 087 | | N/A | N/A | | | |
| 11. | Radiation Cable 1 | MXT | HK1 | R05 | N/A | N/A | | | |
| 12. | Radiation Cable 2 | MXT | HK1 | R06 | N/A | N/A | | | |



3. CONDUCTED EMISSIONS TEST

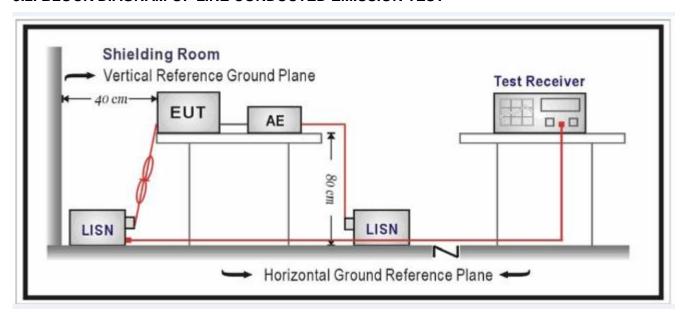
3.1. LIMITS OF LINE CONDUCTED EMISSION TEST

| F | Maximum RF Line Voltage | | | | |
|---------------|-------------------------|----------------|--|--|--|
| Frequency | Q.P.(dBuV) | Average(dBuV) | | | |
| 150kHz~500kHz | 66-56 | 56-46 | | | |
| 500kHz~5MHz | 56 | 46 | | | |
| 5MHz~30MHz | 60 | 50 | | | |

Note:

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

3.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST





3.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2013 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10-2013.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2013.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC charging voltage by adapter or PC which received 120V/60Hzpower by a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

3.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

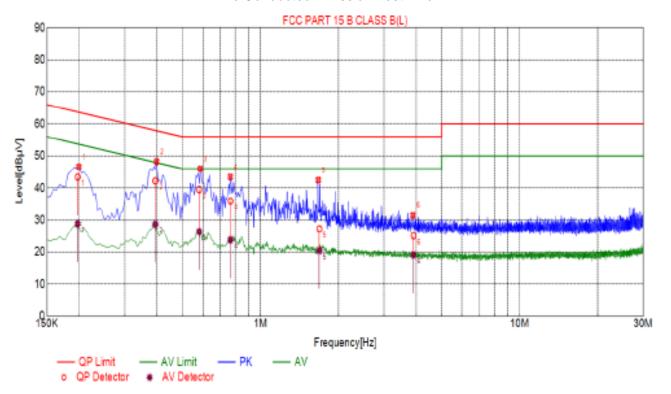
- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.



3.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST BT Link with charging

By adapter(worst case)

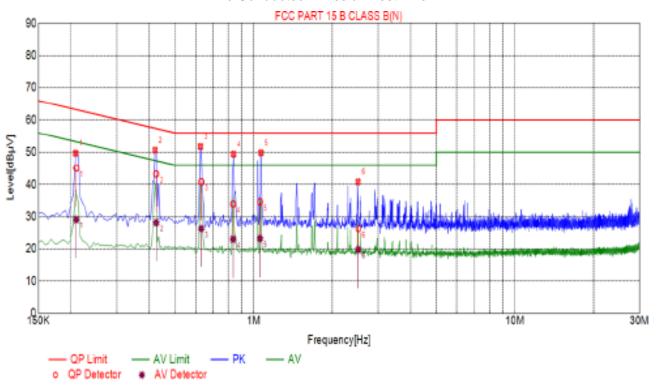
Line Conducted Emission Test Line 1-L



| Final | Final Data List | | | | | | | |
|-------|-----------------|----------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|----------------------|
| NO. | Preq. (MHz) | Factor [d8] | QP Value [cBµV] | QP Limit (dBpV) | QP Margin [dB] | AV Value [d8µV] | AV Limit (dBµV) | AV Margin (dB) |
| 1 | 0.1975 | 10.03 | 43.37 | 63.71 | 20.34 | 28.82 | 53.71 | 24.89 |
| 2 | 0.3935 | 10.04 | 42.18 | 57.99 | 15.81 | 28.68 | 47.99 | 19.31 |
| 3 | 0.5806 | 10.05 | 39.52 | 56.00 | 16.48 | 26.36 | 46.00 | 19.64 |
| 4 | 0.7674 | 10.05 | 35.88 | 56.00 | 20.12 | 23.75 | 46.00 | 22.25 |
| 5 | 1.6871 | 10.13 | 27.21 | 56.00 | 28.79 | 20.48 | 46.00 | 25.52 |
| 6 | 3.8970 | 10.25 | 25.03 | 56.00 | 30.97 | 19.10 | 46.00 | 26.90 |

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Line Conducted Emission Test Line 2-N



| Final | Final Data List | | | | | | | |
|-------|-----------------|----------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|----------------------|
| NO. | Freq. (MHz) | Factor [dB] | QP Value (dBµV) | QP Limit (dBuV) | QP Margin (dB) | AV Value [dBµV] | AV Limit (dByV) | AV Margin (dB) |
| 1 | 0.2096 | 10.04 | 45.07 | 63.22 | 18.15 | 29.09 | 53.22 | 24.13 |
| 2 | 0.4242 | 10.04 | 43.23 | 57.37 | 14.14 | 28.16 | 47.37 | 19.21 |
| 3 | 0.6319 | 10.05 | 40.81 | 56.00 | 15.19 | 26.25 | 46.00 | 19.75 |
| 4 | 0.8353 | 10.06 | 33.83 | 56.00 | 22.17 | 22.93 | 46.00 | 23.07 |
| 5 | 1.0585 | 10.07 | 34.53 | 56.00 | 21.47 | 23.17 | 46.00 | 22.83 |
| 6 | 2.5161 | 10.19 | 26.24 | 56.00 | 29.76 | 19.77 | 46.00 | 26.23 |

-



4. RADIATED EMISSION TEST

4.1TEST LIMIT

Standard FCC15.249

| Fundamental | Field Strength of Fundamental | Field Strength of Harmonics |
|----------------|-------------------------------|-----------------------------|
| Frequency | (millivolts/meter) | (microvolts/meter) |
| 900-928MHz | 50 | 500 |
| 2400-2483.5MHz | 50 | 500 |
| 5725-5875MHz | 50 | 500 |
| 24.0-24.25GHz | 250 | 2500 |

Standard FCC 15.209

| Distance | Field S | Strengths Limit |
|----------|-------------------------------------|--|
| Meters | μ V/m | dB(μV)/m |
| 300 | 2400/F(kHz) | |
| 30 | 24000/F(kHz) | |
| 30 | 30 | |
| 3 | 100 | 40.0 |
| 3 | 150 | 43.5 |
| 3 | 200 | 46.0 |
| 3 | 500 | 54.0 |
| 3 | Other:74.0 dB(µV)/i | m (Peak) 54.0 dB(μV)/m |
| | Meters 300 30 30 30 3 3 3 3 | Meters μ V/m 300 2400/F(kHz) 30 24000/F(kHz) 30 30 3 100 3 150 3 200 3 500 |

Remark:

- (1) Emission level dB μ V = 20 log Emission level μ V/m
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

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4.2. MEASUREMENT PROCEDURE

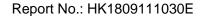
- 1. The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Below 1GHz)
- 2. The measuring distance of 3m shall used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Above 1GHz)
- 3. The height of the test antenna shall vary between 1m to 4m.Both horizontal and vertical polarization Of the antenna are set to make the measurement.
- 4. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- 5. All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform(Below 1GHz)
- 6. All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak & AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(Above 1GHz)





The following table is the setting of spectrum analyzer and receiver.

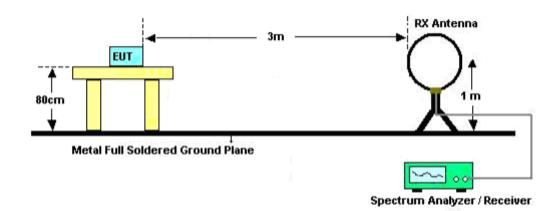
| Spectrum Parameter | Setting |
|-----------------------|---|
| Start ~Stop Frequency | 9KHz~150KHz/RB 200Hz for QP |
| Start ~Stop Frequency | 150KHz~30MHz/RB 9KHz for QP |
| Start ~Stop Frequency | 30MHz~1000MHz/RB 120KHz for QP |
| Start ~Stop Frequency | Fundamental: 2.4~2.483GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 2MHz/ VBW 10Hz for Average Harmonics: 1GHz~25GHz RBW 1MHz/ VBW 3MHz for Peak, RBW 1MHz/ VBW 10Hz for Average |
| Receiver Parameter | Setting |
| Start ~Stop Frequency | 9KHz~150KHz/RB 200Hz for QP |
| Start ~Stop Frequency | 150KHz~30MHz/RB 9KHz for QP |
| Start ~Stop Frequency | 30MHz~1000MHz/RB 120KHz for QP |



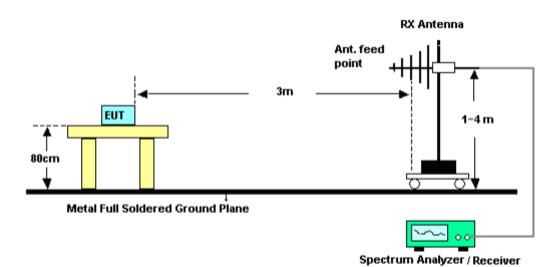


4.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz

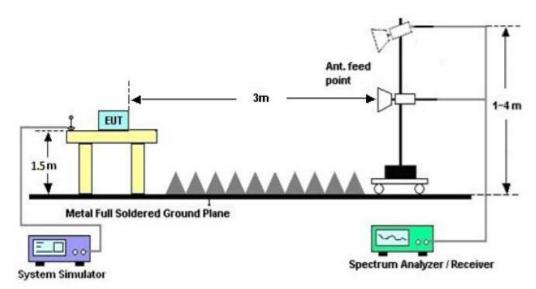


RADIATED EMISSION TEST SETUP 30MHz-1000MHz





RADIATED EMISSION TEST SETUP ABOVE 1000MHz





4.4. TEST RESULT

FOR BR/EDR

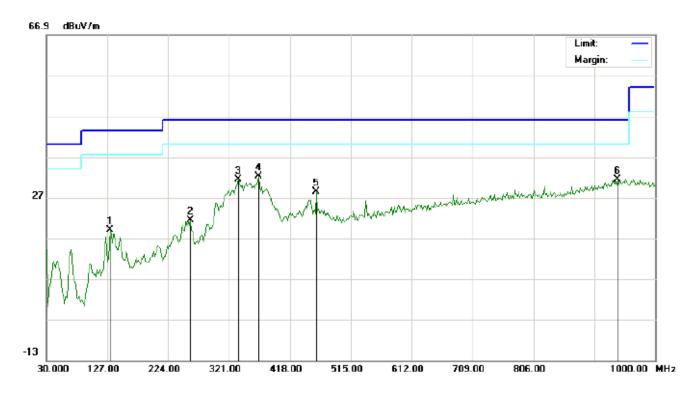
(Worst modulation: π /4-DQPSK)

RADIATED EMISSION BELOW 30MHz

No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED EMISSION BELOW 1GHz

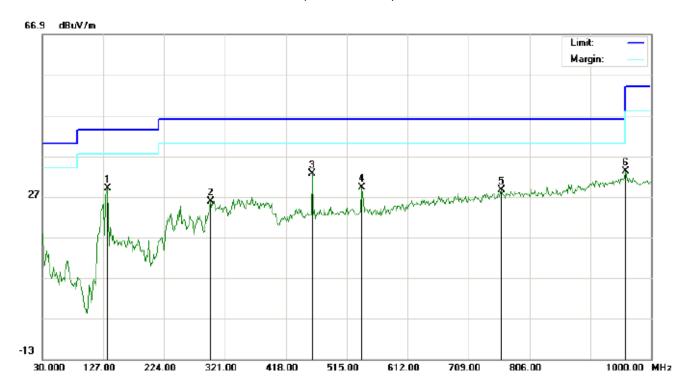
RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL-HORIZONTAL



| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| | - | MHz | dBu∀ | dB/m | dBu∀/m | dBu∀/m | dB | | cm | degree | |
| 1 | | 131.8500 | 7.59 | 11.39 | 18.98 | 43.50 | -24.52 | peak | | | |
| 2 | | 259.5667 | 12.91 | 8.53 | 21.44 | 46.00 | -24.56 | peak | | | |
| 3 | | 335.5500 | 13.68 | 17.78 | 31.46 | 46.00 | -14.54 | peak | | | |
| 4 | * | 367.8833 | 13.28 | 18.86 | 32.14 | 46.00 | -13.86 | peak | | | |
| 5 | | 460.0333 | 7.66 | 20.70 | 28.36 | 46.00 | -17.64 | peak | | | |
| 6 | | 940.1833 | 1.69 | 29.73 | 31.42 | 46.00 | -14.58 | peak | | | |



RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL -VERTICAL



| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| | - | MHz | dBu∀ | dB/m | dBu∀/m | dBu∀/m | dB | | cm | degree | |
| 1 | | 133.4667 | 16.62 | 12.48 | 29.10 | 43.50 | -14.40 | peak | | | |
| 2 | | 298.3667 | 10.52 | 15.36 | 25.88 | 46.00 | -20.12 | peak | | | |
| 3 | | 460.0333 | 11.88 | 20.70 | 32.58 | 46.00 | -13.42 | peak | | | |
| 4 | | 539.2500 | 7.06 | 22.19 | 29.25 | 46.00 | -16.75 | peak | | | |
| 5 | | 760.7333 | 1.77 | 26.78 | 28.55 | 46.00 | -17.45 | peak | | | |
| 6 | * | 959.5833 | 3.25 | 29.91 | 33.16 | 46.00 | -12.84 | peak | | | |

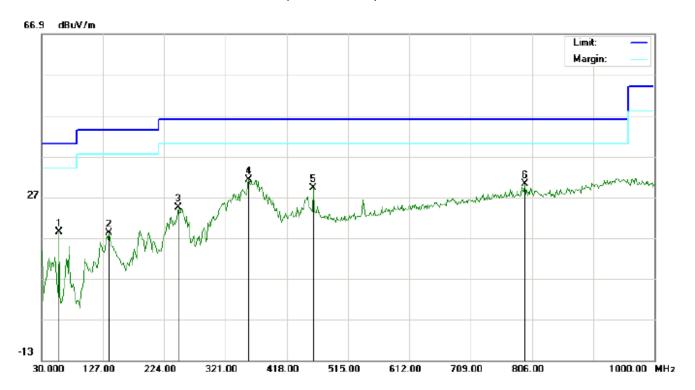
RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.



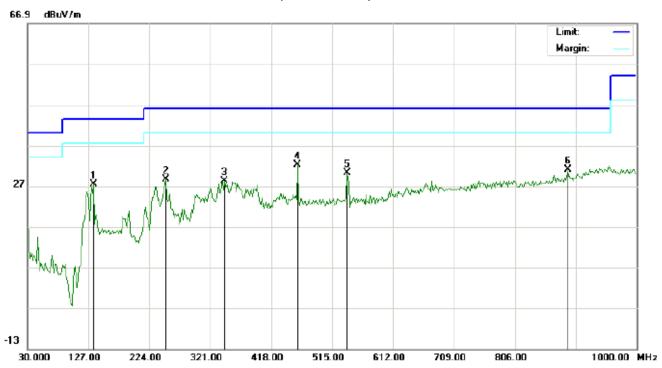
RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL



| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| | - | MHz | dBu∀ | dB/m | dBu∀/m | dBu∀/m | dB | | cm | degree | |
| 1 | | 57.4833 | 15.13 | 3.20 | 18.33 | 40.00 | -21.67 | peak | | | |
| 2 | | 136.7000 | 4.58 | 13.66 | 18.24 | 43.50 | -25.26 | peak | | | |
| 3 | | 246.6333 | 17.11 | 7.24 | 24.35 | 46.00 | -21.65 | peak | | | |
| 4 | * | 358.1833 | 12.47 | 18.79 | 31.26 | 46.00 | -14.74 | peak | | | |
| 5 | | 460.0333 | 8.46 | 20.70 | 29.16 | 46.00 | -16.84 | peak | | | |
| 6 | | 794.6833 | 2.99 | 27.25 | 30.24 | 46.00 | -15.76 | peak | | | |



RADIATED EMISSION TEST- (30MHz-1GHz)- MIDDLE CHANNEL -VERTICAL



| ١ | No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|---|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| | | - | MHz | dBu∀ | dB/m | dBu∀/m | dBu∀/m | dB | | cm | degree | |
| | 1 | | 135.0833 | 14.20 | 13.15 | 27.35 | 43.50 | -16.15 | peak | | | |
| | 2 | | 249.8667 | 14.68 | 13.89 | 28.57 | 46.00 | -17.43 | peak | | | |
| | 3 | | 343.6333 | 9.93 | 18.32 | 28.25 | 46.00 | -17.75 | peak | | | |
| | 4 | * | 460.0333 | 11.50 | 20.70 | 32.20 | 46.00 | -13.80 | peak | | | |
| | 5 | | 539.2500 | 7.95 | 22.19 | 30.14 | 46.00 | -15.86 | peak | | | |
| | 6 | | 890.0667 | 2.71 | 28.35 | 31.06 | 46.00 | -14.94 | peak | | · | |

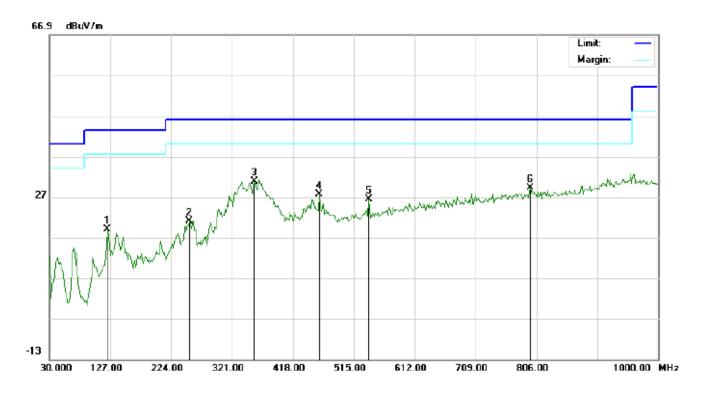
RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.



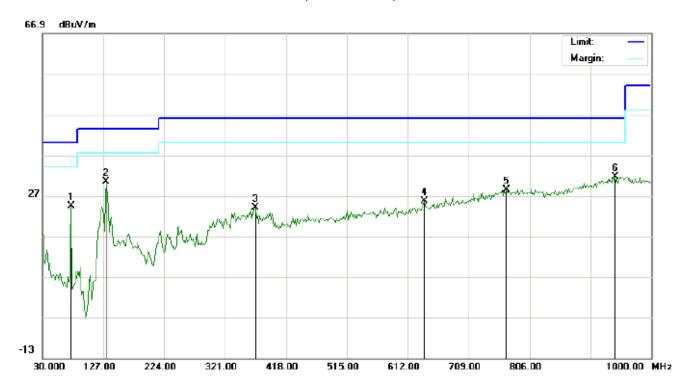
RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL-HORIZONTAL



| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| | - | MHz | dBu∀ | dB/m | dBu∀/m | dBu∀/m | dB | | cm | degree | |
| 1 | | 122.1500 | 12.20 | 6.86 | 19.06 | 43.50 | -24.44 | peak | | | |
| 2 | | 253.1000 | 13.58 | 7.43 | 21.01 | 46.00 | -24.99 | peak | | | |
| 3 | * | 356.5667 | 12.11 | 18.78 | 30.89 | 46.00 | -15.11 | peak | | | |
| 4 | | 460.0333 | 6.94 | 20.70 | 27.64 | 46.00 | -18.36 | peak | | | |
| 5 | | 539.2500 | 4.13 | 22.19 | 26.32 | 46.00 | -19.68 | peak | | | |
| 6 | | 796.3000 | 1.94 | 27.27 | 29.21 | 46.00 | -16.79 | peak | | | |



RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL -VERTICAL



| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|--------|---------|
| | - | MHz | dBu∀ | dB/m | dBuV/m | dBu∀/m | dB | | cm | degree | |
| 1 | | 75.2667 | 21.43 | 2.96 | 24.39 | 40.00 | -15.61 | peak | | | |
| 2 | * | 131.8500 | 18.58 | 11.80 | 30.38 | 43.50 | -13.12 | peak | | | |
| 3 | | 369.5000 | 5.17 | 18.87 | 24.04 | 46.00 | -21.96 | peak | | | |
| 4 | | 637.8667 | 2.02 | 23.58 | 25.60 | 46.00 | -20.40 | peak | | | |
| 5 | | 768.8167 | 1.55 | 26.89 | 28.44 | 46.00 | -17.56 | peak | | | |
| 6 | | 941.8000 | 1.86 | 29.77 | 31.63 | 46.00 | -14.37 | peak | | | |

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.



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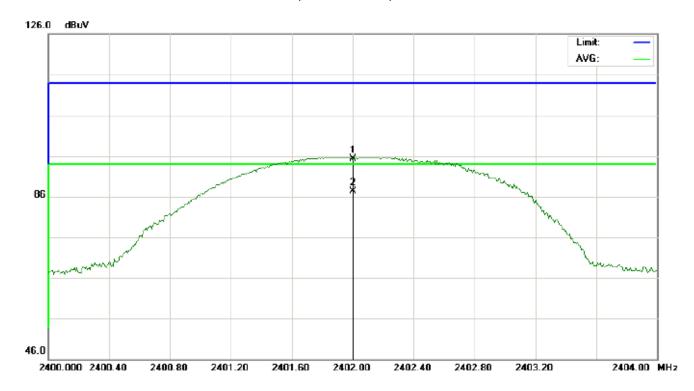
RADIATED EMISSION ABOVE 1GHz

FOR BR/EDR

(Worst modulation: π /4-DQPSK)

For Fundamental

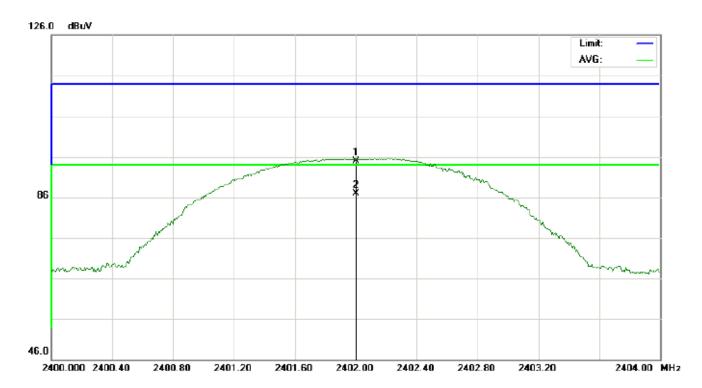
RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL-HORIZONTAL



| | No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | | Comment |
|--|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|--------|---------|
| | | - | MHz | dBu∀ | dB | dBu∀ | dBu∨ | dB | | cm | degree | |
| | 1 | | 2402.000 | 81.80 | 13.46 | 95.26 | 114.00 | -18.74 | peak | | | |
| | 2 | * | 2402.000 | 73.88 | 13.46 | 87.34 | 94.00 | -6.66 | AVG | 100 | 75 | |



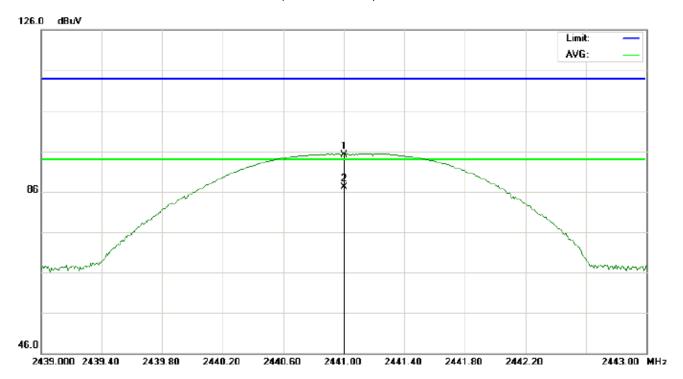
RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL



| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| | - | MHz | dBu∀ | dB | dBu∀ | dBu∀ | dB | | cm | degree | |
| 1 | | 2402.000 | 81.36 | 13.46 | 94.82 | 114.00 | -19.18 | peak | | | |
| 2 | * | 2402.000 | 73.36 | 13.46 | 86.82 | 94.00 | -7.18 | AVG | 100 | 335 | |



RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL

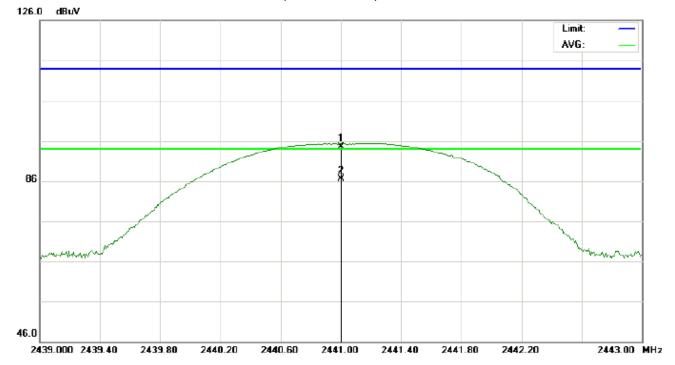


| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| | - | MHz | dBu∀ | dB | dBu∀ | dBu∀ | dB | | cm | degree | |
| 1 | | 2441.000 | 81.15 | 13.88 | 95.03 | 114.00 | -18.97 | peak | | | |
| 2 | * | 2441.000 | 73.24 | 13.88 | 87.12 | 94.00 | -6.88 | AVG | 100 | 77 | |



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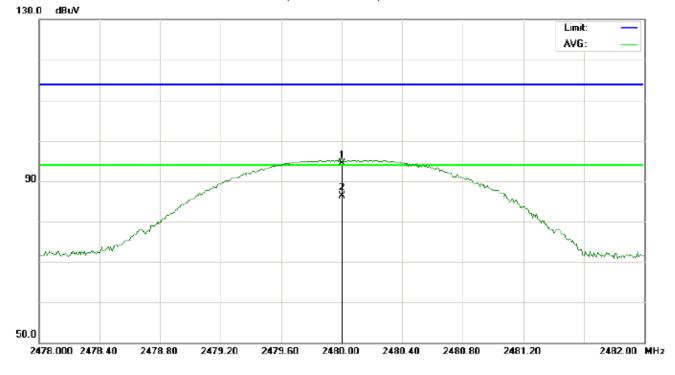
RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL- VERTICAL



| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| | - | MHz | dBu∀ | dB | dBu∀ | dBu∀ | dB | | cm | degree | |
| 1 | | 2441.000 | 80.66 | 13.88 | 94.54 | 114.00 | -19.46 | peak | | | |
| 2 | * | 2441.000 | 72.65 | 13.88 | 86.53 | 94.00 | -7.47 | AVG | 100 | 337 | |

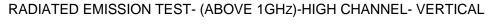
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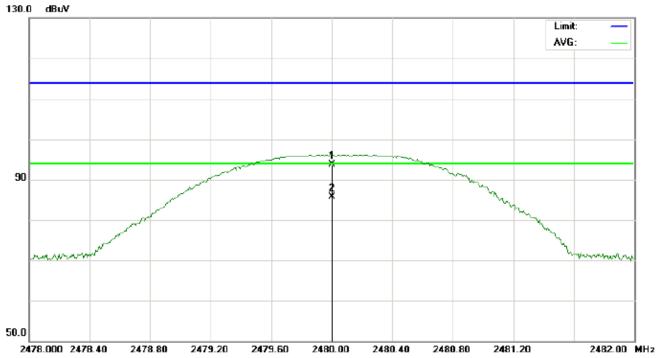
RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL



| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| | - | MHz | dBu∀ | dB | dBu∀ | dBu∀ | dB | | cm | degree | |
| 1 | | 2480.000 | 80.13 | 14.11 | 94.24 | 114.00 | -19.76 | peak | | | |
| 2 | * | 2480.000 | 72.13 | 14.11 | 86.24 | 94.00 | -7.76 | AVG | 100 | 79 | |







| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| | - | MHz | dBu∀ | dB | dBu∀ | dBuV | dB | | cm | degree | |
| 1 | | 2480.000 | 79.64 | 14.11 | 93.75 | 114.00 | -20.25 | peak | | | |
| 2 | * | 2480.000 | 71.66 | 14.11 | 85.77 | 94.00 | -8.23 | AVG | 100 | 339 | |

RESULT: PASS

Note: Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.



Field strength of the fundamental signal

2Mbps Result:

Peak value

| Frequency | Reading Level | Factor | Measurement | Limit | Over | Antenna |
|-----------|------------------|--------|-------------|----------|--------|--------------|
| (MHz) | (dBuv) | (dB/m) | (dBuv/m) | (dBuv/m) | (dB) | Polarization |
| 2402 | 81.80 | 13.46 | 95.26 | 114 | -18.74 | Horizontal |
| 2402 | 81.36 | 13.46 | 94.82 | 114 | -19.18 | Vertical |
| 2441 | 81.15 | 13.88 | 95.03 | 114 | -18.97 | Horizontal |
| 2441 | 80.66 | 13.88 | 94.54 | 114 | -19.46 | Vertical |
| 2480 | 80.13 | 14.11 | 94.24 | 114 | -19.76 | Horizontal |
| 2480 | 79.64 | 14.11 | 93.75 | 114 | -20.25 | Vertical |

Average value

| Frequency | Reading Level | Factor | Measurement | Limit | Over | Antenna |
|-----------|------------------|--------|-------------|----------|-------|--------------|
| (MHz) | (dBuv) | (dB/m) | (dBuv/m) | (dBuv/m) | (dB) | Polarization |
| 2402 | 73.88 | 13.46 | 87.34 | 94 | -6.66 | Horizontal |
| 2402 | 73.36 | 13.46 | 86.82 | 94 | -7.18 | Vertical |
| 2441 | 73.24 | 13.88 | 87.12 | 94 | -6.88 | Horizontal |
| 2441 | 72.65 | 13.88 | 86.53 | 94 | -7.47 | Vertical |
| 2480 | 72.13 | 14.11 | 86.24 | 94 | -7.76 | Horizontal |
| 2480 | 71.66 | 14.11 | 85.77 | 94 | -8.23 | Vertical |



1Mbps Result:

Peak value

| Frequency | Reading Level | Factor | Measurement | Limit | Over | Antenna |
|-----------|------------------|--------|-------------|----------|--------|--------------|
| (MHz) | (dBuv) | (dB/m) | (dBuv/m) | (dBuv/m) | (dB) | Polarization |
| 2402 | 81.39 | 13.46 | 94.85 | 114 | -19.15 | Horizontal |
| 2402 | 80.94 | 13.46 | 94.40 | 114 | -19.60 | Vertical |
| 2441 | 80.69 | 13.88 | 94.57 | 114 | -19.43 | Horizontal |
| 2441 | 80.21 | 13.88 | 94.09 | 114 | -19.91 | Vertical |
| 2480 | 79.66 | 14.11 | 93.77 | 114 | -20.23 | Horizontal |
| 2480 | 79.19 | 14.11 | 93.30 | 114 | -20.70 | Vertical |

Average value

| Frequency | Reading Level | Factor | Measurement | Limit | Over | Antenna |
|-----------|------------------|--------|-------------|----------|-------|--------------|
| (MHz) | (dBuv) | (dB/m) | (dBuv/m) | (dBuv/m) | (dB) | Polarization |
| 2402 | 73.47 | 13.46 | 86.93 | 94 | -7.07 | Horizontal |
| 2402 | 72.88 | 13.46 | 86.34 | 94 | -7.66 | Vertical |
| 2441 | 72.81 | 13.88 | 86.69 | 94 | -7.31 | Horizontal |
| 2441 | 72.18 | 13.88 | 86.06 | 94 | -7.94 | Vertical |
| 2480 | 71.69 | 14.11 | 85.80 | 94 | -8.20 | Horizontal |
| 2480 | 71.26 | 14.11 | 85.37 | 94 | -8.63 | Vertical |



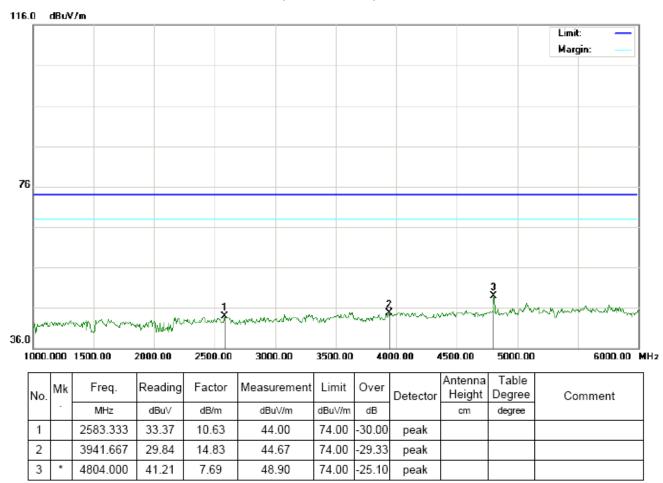


FOR BR/EDR

(Worst modulation: π /4-DQPSK)

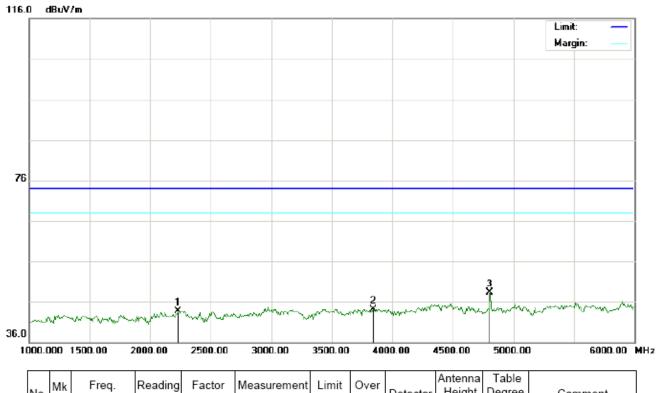
For Harmonics

RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL-HORIZONTAL





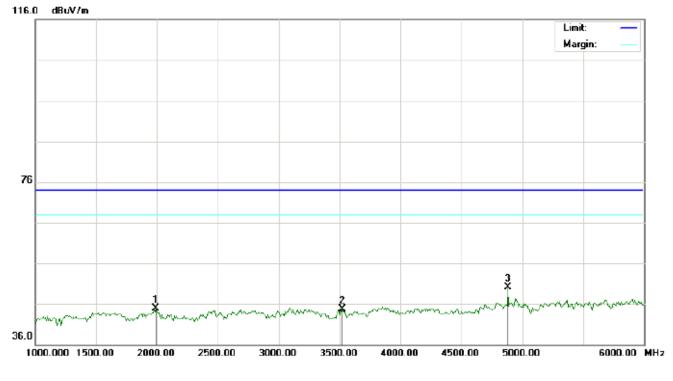
RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL



| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| | • | MHz | dBu∀ | dB/m | dBu∀/m | dBu∀/m | dB | | cm | degree | |
| 1 | | 2233.333 | 33.55 | 10.14 | 43.69 | 74.00 | -30.31 | peak | | | |
| 2 | | 3841.667 | 29.98 | 14.21 | 44.19 | 74.00 | -29.81 | peak | | | |
| 3 | * | 4804.000 | 40.55 | 7.69 | 48.24 | 74.00 | -25.76 | peak | | | |



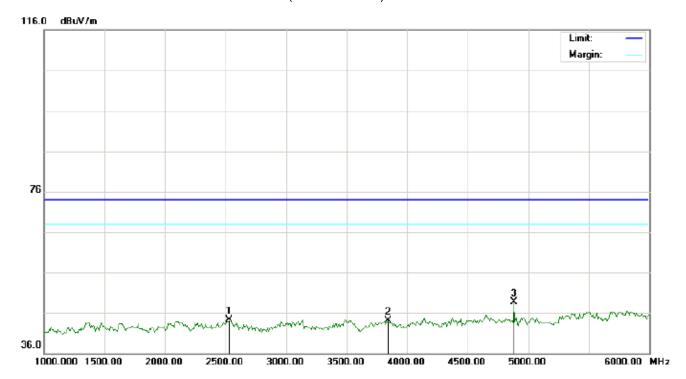
RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL



| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| | - | MHz | dBu∀ | dB/m | dBu∀/m | dBu∀/m | dB | | cm | degree | |
| 1 | | 1991.667 | 35.20 | 9.79 | 44.99 | 74.00 | -29.01 | peak | | | |
| 2 | | 3525.000 | 32.36 | 12.26 | 44.62 | 74.00 | -29.38 | peak | | | |
| 3 | * | 4882.000 | 42.16 | 7.89 | 50.05 | 74.00 | -23.95 | peak | | | |



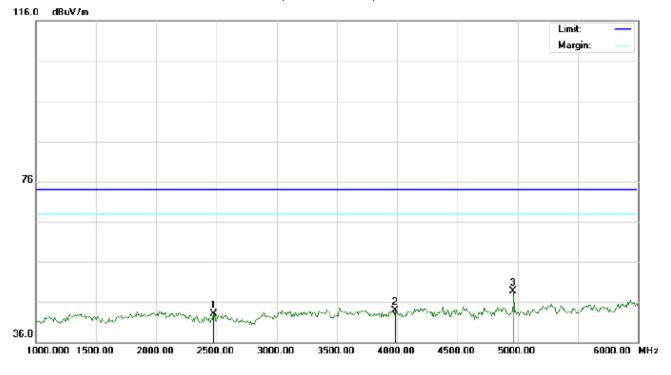
RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL- VERTICAL



| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| | - | MHz | dBu∀ | dB/m | dBu∀/m | dBu∀/m | dB | | cm | degree | |
| 1 | | 2533.333 | 33.83 | 10.51 | 44.34 | 74.00 | -29.66 | peak | | | |
| 2 | | 3841.667 | 29.86 | 14.21 | 44.07 | 74.00 | -29.93 | peak | | | |
| 3 | * | 4882.000 | 40.89 | 7.89 | 48.78 | 74.00 | -25.22 | peak | | | |



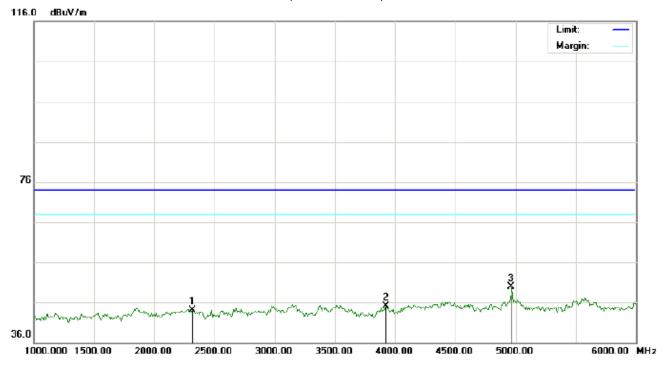
RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL



| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| | - | MHz | dBu∀ | dB/m | dBuV/m | dBu∀/m | dB | | cm | degree | |
| 1 | | 2475.000 | 32.73 | 10.40 | 43.13 | 74.00 | -30.87 | peak | | | |
| 2 | | 3983.333 | 28.80 | 15.09 | 43.89 | 74.00 | -30.11 | peak | | | |
| 3 | * | 4960.000 | 40.60 | 8.09 | 48.69 | 74.00 | -25.31 | peak | | · | |



RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL- VERTICAL



| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| | - | MHz | dBu∀ | dB/m | dBu∀/m | dBu∀/m | dB | | cm | degree | |
| 1 | | 2316.667 | 33.92 | 10.23 | 44.15 | 74.00 | -29.85 | peak | | | |
| 2 | | 3925.000 | 30.33 | 14.73 | 45.06 | 74.00 | -28.94 | peak | | | |
| 3 | * | 4960.000 | 41.91 | 8.09 | 50.00 | 74.00 | -24.00 | peak | | | |

RESULT: PASS

Note: 6~25GHz at least have 20dB margin. No recording in the test report.

Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.



5. BAND EDGE

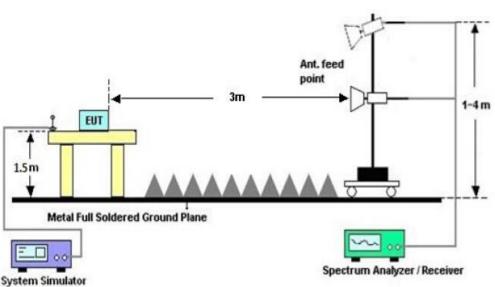
5.1. MEASUREMENT PROCEDURE

- 1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
- 2. Max hold the trace of the setup 1, and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.
- 3. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission.

| Start frequency(MHz) | Stop frequency(MHz) | | | | | |
|----------------------|---------------------|--|--|--|--|--|
| 2200 | 2405 | | | | | |
| 2478 | 2500 | | | | | |

5.2 TEST SETUP

RADIATED EMISSION TEST SETUP





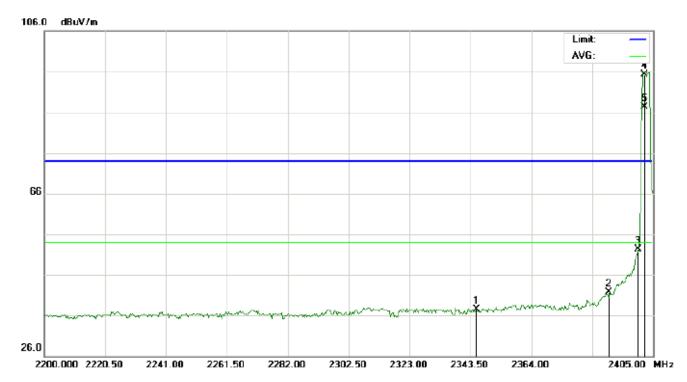
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5.3 RADIATED TEST RESULT

FOR BR/EDR

(Worst modulation: π /4-DQPSK)

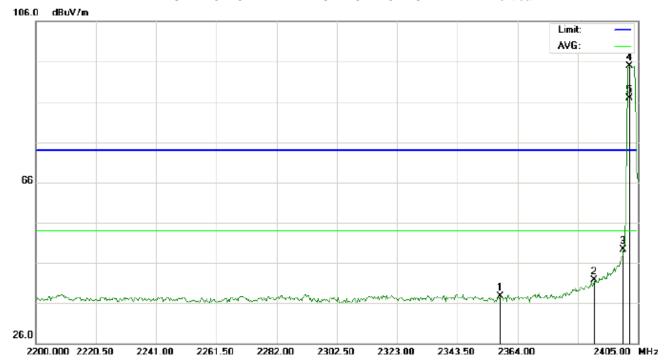
TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| | - | MHz | dBu∀ | dB/m | dBu∀/m | dBu∀/m | dB | | cm | degree | |
| 1 | | 2345.550 | 24.10 | 13.46 | 37.56 | 74.00 | -36.44 | peak | | | |
| 2 | | 2390.000 | 28.17 | 13.46 | 41.63 | 74.00 | -32.37 | peak | | | |
| 3 | | 2400.000 | 38.94 | 13.46 | 52.40 | 74.00 | -21.60 | peak | | | |
| 4 | Х | 2402.000 | 81.79 | 13.46 | 95.25 | 74.00 | 21.25 | peak | | | |
| 5 | * | 2402.000 | 73.85 | 13.46 | 87.31 | 54.00 | 33.31 | AVG | 100 | 73 | |

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TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| | | MHz | dBu∀ | dB/m | dBu∀/m | dBu∀/m | dB | | cm | degree | |
| 1 | | 2358.192 | 24.32 | 13.46 | 37.78 | 74.00 | -36.22 | peak | | | |
| 2 | | 2390.000 | 28.17 | 13.46 | 41.63 | 74.00 | -32.37 | peak | | | |
| 3 | | 2400.000 | 35.94 | 13.46 | 49.40 | 74.00 | -24.60 | peak | | | |
| 4 | Х | 2402.000 | 81.35 | 13.46 | 94.81 | 74.00 | 20.81 | peak | | | |
| 5 | * | 2402.000 | 73.35 | 13.46 | 86.81 | 54.00 | 32.81 | AVG | 100 | 333 | |



J

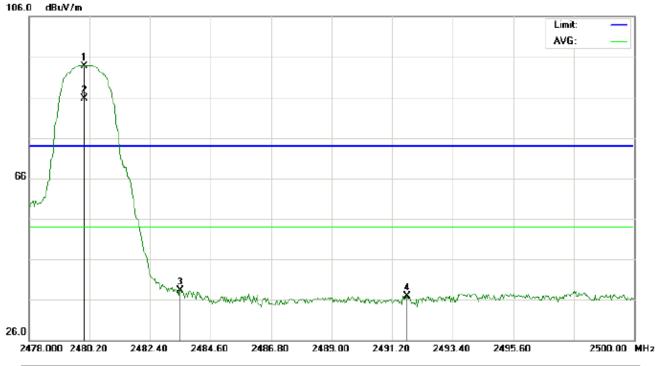
TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|--------|---------|
| | | MHz | dBu∀ | dB/m | dBu∀/m | dBu∀/m | dB | | cm | degree | |
| 1 | Х | 2480.000 | 80.10 | 14.11 | 94.21 | 74.00 | 20.21 | peak | | | |
| 2 | * | 2480.000 | 72.10 | 14.11 | 86.21 | 54.00 | 32.21 | AVG | 100 | 71 | |
| 3 | | 2483.500 | 25.16 | 14.13 | 39.29 | 74.00 | -34.71 | peak | | | |
| 4 | | 2492.483 | 25.03 | 14.18 | 39.21 | 74.00 | -34.79 | peak | | | |



TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| | | MHz | dBu∀ | dB/m | dBu\//m | dBu∀/m | dB | | cm | degree | |
| 1 | Х | 2480.000 | 79.60 | 14.11 | 93.71 | 74.00 | 19.71 | peak | | | |
| 2 | * | 2480.000 | 71.64 | 14.11 | 85.75 | 54.00 | 31.75 | AVG | 100 | 331 | |
| 3 | | 2483.500 | 24.22 | 14.13 | 38.35 | 74.00 | -35.65 | peak | | | |
| 4 | | 2491.750 | 22.70 | 14.18 | 36.88 | 74.00 | -37.12 | peak | | | |

RESULT: PASS

Note: Factor=Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

Hopping on mode and Hopping off mode have been tested, but only worst case reported.

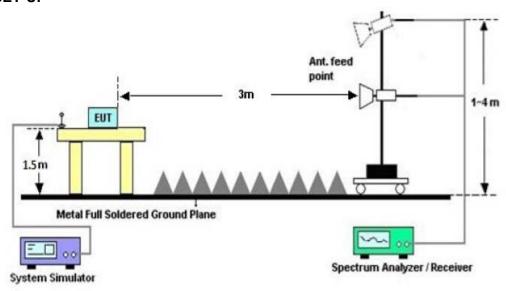


6. OCCUPIED BANDWIDTH MEASUREMENT

6.1. MEASUREMENT PROCEDURE

- 1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 2. Set Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hoping channel RBW ≥ 1% of the 20 dB bandwidth, VBW ≥ 3RBW; Sweep = auto; Detector function = peak
- 3. Set SPA Trace 1 Max hold, then View.

6.2. TEST SET-UP



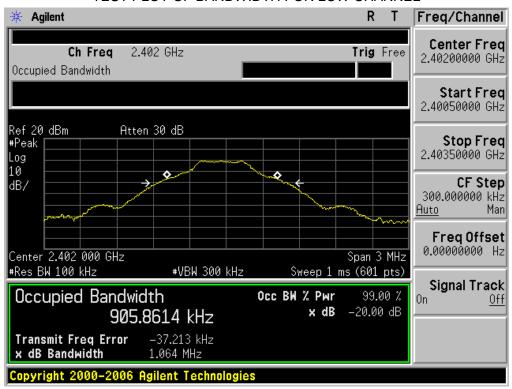
6.3. LIMITS AND MEASUREMENT RESULTS

FOR BR/EDR

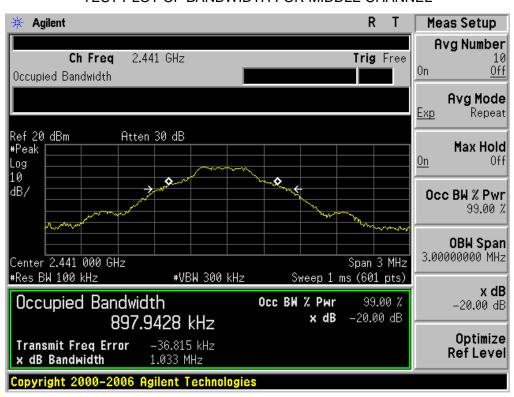
| BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT | | | | | | | | | | |
|---|--------------------|--------------|---------------|--------|--|--|--|--|--|--|
| | Measurement Result | | | | | | | | | |
| Applicable Limits | | Do avilé | | | | | | | | |
| | | 99%OBW (MHz) | -20dB BW(MHz) | Result | | | | | | |
| | Low Channel | 0.906 | 1.064 | PASS | | | | | | |
| N/A | Middle Channel | 0.898 | 1.033 | PASS | | | | | | |
| | High Channel | 0.890 | 1.031 | PASS | | | | | | |



TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

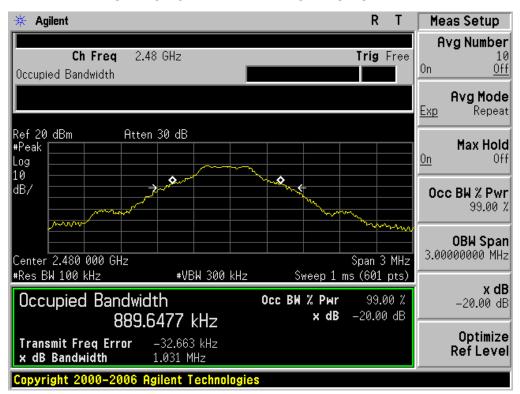


TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL





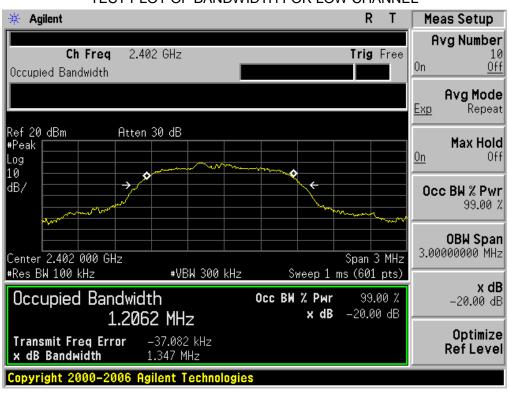
TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL





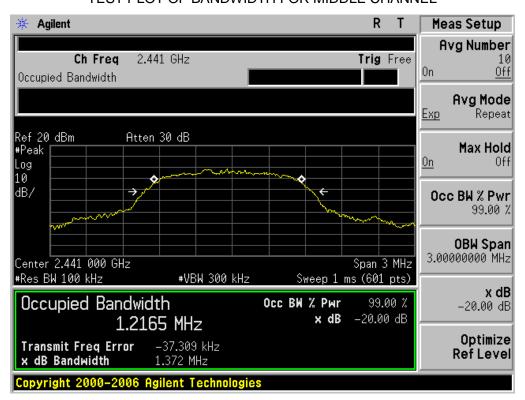
BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT Measurement Result Applicable Limits Test Data (MHz) Result 99%OBW (MHz) -20dB BW(MHz) Low Channel 1.206 **PASS** 1.347 N/A Middle Channel **PASS** 1.217 1.372 High Channel 1.214 1.364 **PASS**

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

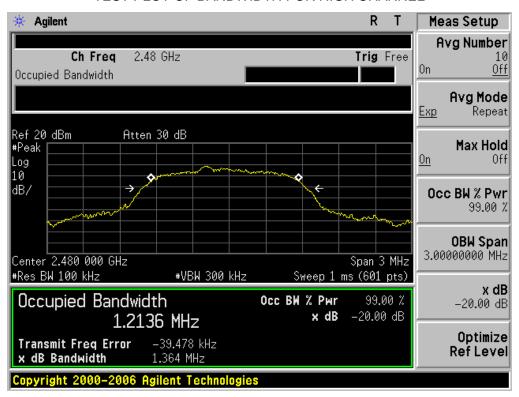




TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL





7. ANTENNA REQUIREMENT

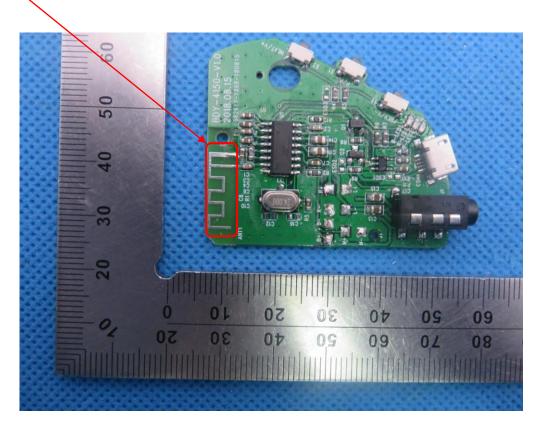
Standard Applicable

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.

Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.







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8. PHOTOGRAPH OF TEST

FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP















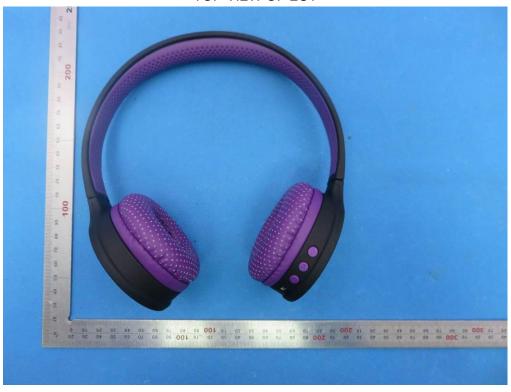
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9. PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



TOP VIEW OF EUT





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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT





BACK VIEW OF EUT



LEFT VIEW OF EUT







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RIGHT VIEW OF EUT



VIEW OF EUT (PORT)





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OPEN VIEW OF EUT



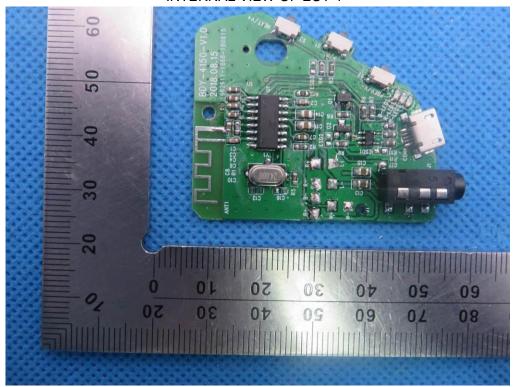
VIEW OF BATTERY



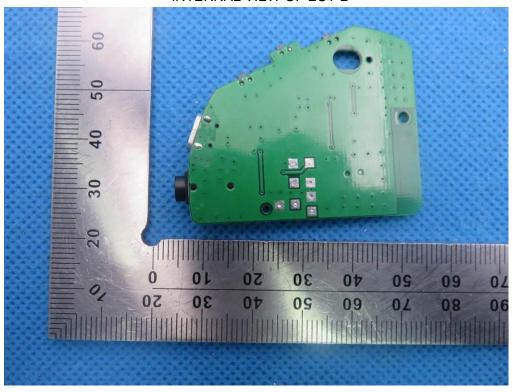


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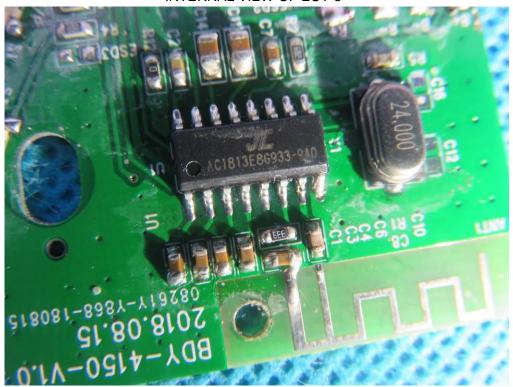
INTERNAL VIEW OF EUT-2





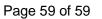
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INTERNAL VIEW OF EUT-3



ALL COLOR SAMPLE







VIEW OF ADAPTER (AE)



The adapter was supplied by HUAK

----END OF REPORT----