FCC Test Report

Report No.: AGC10295170703FE03

FCC ID : 2AANZCRALEDFH

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: Glow headphones

BRAND NAME : Crayola

MODEL NAME : See Page 4

CLIENT : DGL Group LTD.

DATE OF ISSUE : Jul.03, 2017

STANDARD(S)

TEST PROCEDURE(S) : FCC Part 15 Subpart C Section 15.249

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|----------------|-------------|--------------|---------------|-----------------|
| V1.0 | / | Jul.03, 2017 | Valid | Original Report |

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1. VERIFICATION OF CONFORMITY

| Applicant | DGL Group LTD. | | | |
|--|---|--|--|--|
| Address | 195 Raritan Center Parkway Edison, New Jersey United States 08837 | | | |
| Manufacturer | DGL Group LTD. | | | |
| Address 195 Raritan Center Parkway Edison, New Jersey United States 0883 | | | | |
| Product Designation | Glow headphones | | | |
| Brand Name | Crayola | | | |
| Test Model | CRA-LEDFH | | | |
| Series Model | CRA-LEDFH-ASST, CRA-LEDFH-BLK, CRA-LEDFH-BLU, CRA-LEFH-WHT | | | |
| Difference description | All the same except for the appearance color. | | | |
| Date of test | Jun.29.04, 2017 to Jul.01, 2017 | | | |
| Deviation | None | | | |
| Condition of Test Sample | Normal | | | |
| Report Template | AGCRT-US-BR/RF | | | |

We hereby certify that:

The above equipment was tested by Dongguan Precise Testing Service Co., Ltd. The test data, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.249.

Tested By

Henry Zhang (Zhang Zhuorui)

Henry Zhang (Zhang Zhuorui)

Jul.01, 2017

Forrest Lei(Lei Yonggang)

Jul.03, 2017

Approved By

Solger Zhang (Zhang Hongyi)

Authorized Officer

Jul.03, 2017

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

| | 3 | |
|---|--|--|
| Operation Frequency 2.402 GHz to 2.480GHz | | |
| RF Output Power -1.60dBm(Max EIRP Power=Max radiation field-95.2) | | |
| Bluetooth Version V4.1 | | |
| Modulation GFSK, π /4-DQPSK, 8DPSK | | |
| Number of channels 79 for BR/EDR | | |
| Hardware Version | V1.0 | |
| Software Version | V2.0 | |
| Antenna Designation PCB Antenna | | |
| Antenna Gain 2dBi | | |
| Power Supply DC 3.7V by battery | | |
| N T | 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | |

Note: 1. The USB port only be used for charging and can't be used to transfer data with PC.

2. The EUT didn't support BLE.

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR channel List

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

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3. MEASUREMENT UNCERTAINTY

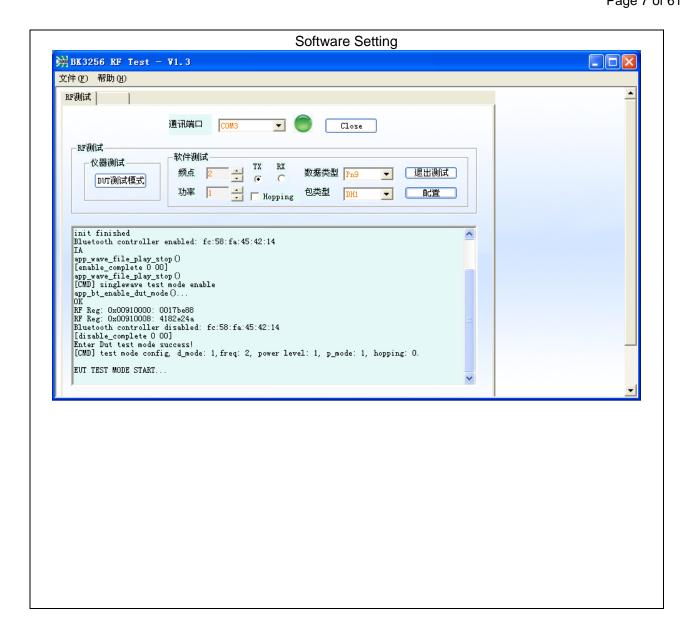
The reported uncertainty of measurement y ±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

| No. | Item | Uncertainty |
|-----|-------------------------|-------------|
| 1 | Conducted Emission Test | ±3.18dB |
| 2 | All emissions,radiated | ±3.91dB |
| 3 | Temperature | ±0.5°C |
| 4 | Humidity | ±2% |

4. DESCRIPTION OF TEST MODES

| 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 | Low channel 8DPSK |
| 8 | Middle channel 8DPSK |
| 9 | High channel 8DPSK |
| 10 | BT Link with charging |
| 11 | BT Link |

- 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.

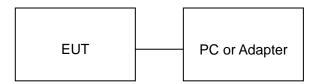


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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



Note: Owing to the EUT has own battery, Testing will be performed while PC or adapter remove.

Configure 2: (Control continuous TX)



5.2. EQUIPMENT USED IN EUT SYSTEM

| Item | Equipment | Mfr/Brand Model/Type No. | | Remark | | |
|------|-----------------|--------------------------|---------------|-----------|--|--|
| 1 | Glow headphones | Crayola | CRA-LEDFH | EUT | | |
| 2 | Battery | / KNE 602030 | | Accessory | | |
| 3 | PC | C SONY E141. | | A.E | | |
| 4 | PC Adapter | SONY | VGP-AC19V36 | A.E | | |
| 5 | Control box | BEKEN | N/A | A.E | | |
| 6 | Adapter | IPRO | NTR-S01 | A.E | | |
| 7 | USB Cable | N/A | 1m unshielded | A.E | | |

5.3. SUMMARY OF TEST RESULTS

| FCC RULES | DESCRIPTION OF TEST | RESULT |
|-----------------------|---------------------|-----------|
| §15.249(a) §15.209 | Radiated Emission | Compliant |
| §15.249(d) | Band Edges | Compliant |
| §15.207 | Conduction Emission | Compliant |
| §15.215 | Bandwidth | Compliant |

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6. TEST FACILITY

| Site Dongguan Precise Testing Service Co., Ltd. | | |
|---|--|--|
| Location Building D,Baoding Technology Park,Guangming Road2,Dongcheng Distri Dongguan, Guangdong, China, | | |
| FCC Registration No. | 371540 | |
| Description | The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2014. | |

7.TEST METHOD

All measurements contained in this report were conducted with ANSI C63.10-2013

8. TEST EQUIPMENT LIST

FOR RADIATED EMISSION TEST (BELOW 1GHz)

| Radiated Emission Test Site | | | | | | |
|--|---------------|--------------|------------------|---------------------|--------------------|--|
| Name of Equipment | Manufacturer | Model Number | Serial Number | Last Calibration | Due Calibration | |
| EMI Test Receiver | ROHDE&SCHWARZ | ESCI | 101417 | July 4, 2016 | July 3, 2017 | |
| Trilog Broadband Antenna (25M-1GHz) | SCHWARZBECK | VULB9160 | 9160-3355 | July 4, 2016 | July 3, 2017 | |
| Signal Amplifier | SCHWARZBECK | BBV 9475 | 9745-0013 | July 4, 2016 | July 3, 2017 | |
| RF Cable | SCHWARZBECK | AK9515E | 96221 | July 4, 2016 | July 3, 2017 | |
| MULTI-DEVICE Positioning Controller | MAX-FULL | MF-7802 | MF780208339 | N/A | N/A | |
| Active loop antenna (9K-30MHz) | SCHWARZBECK | FMZB1519 | 1519-038 | June 6, 2017 | June 5, 2018 | |
| Spectrum analyzer | AGILENT | E4407B | MY46185649 | June 6, 2017 | June 5, 2018 | |
| Radiation Cable 1 | MXT | RS1 | R005 | June 6, 2017 | June 5, 2018 | |
| Radiation Cable 2 | MXT | RS1 | R006 | June 6, 2017 | June 5, 2018 | |
| temporary antenna connector | N/A | S100 | | July 4, 2016 | July 3, 2017 | |

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FOR RADIATED EMISSION TEST (1GHz ABOVE)

| Radiated Emission Test Site | | | | | | |
|--|---------------|--------------|------------------|---------------------|--------------------|--|
| Name of Equipment | Manufacturer | Model Number | Serial Number | Last Calibration | Due Calibration | |
| EMI Test Receiver | ROHDE&SCHWARZ | ESCI | 101417 | July 4, 2016 | July 3, 2017 | |
| Horn Antenna (1G-18GHz) | SCHWARZBECK | BBHA9120D | 9120D-1246 | July 11, 2016 | July 10, 2017 | |
| Spectrum Analyzer | AGILENT | E4411B | MY4511453 | July 4, 2016 | July 3, 2017 | |
| Signal Amplifier | SCHWARZBECK | BBV 9718 | 9718-269 | July 7, 2016 | July 6, 2017 | |
| RF Cable | SCHWARZBECK | AK9515H | 96220 | July 8, 2016 | July 7, 2017 | |
| MULTI-DEVICE Positioning Controller | MAX-FULL | MF-7802 | MF780208339 | N/A | N/A | |
| Horn Ant (18G-40GHz) | SCHWARZBECK | BBHA 9170 | 9170-181 | June 6, 2017 | June 5, 2018 | |
| Radiation Cable 1 | MXT | RS1 | R005 | June 6, 2017 | June 5, 2018 | |
| Radiation Cable 2 | MXT | RS1 | R006 | June 6, 2017 | June 5, 2018 | |

| | Conducted Emission Test Site | | | | | | | | |
|-----------------------------------|------------------------------|--------------|---------------|------------------|--------------------|--|--|--|--|
| Name of Equipment | Manufacturer | Model Number | Serial Number | Last Calibration | Due Calibration | | | | |
| EMI Test Receiver | ROHDE&SCHWARZ | ESCI | 101417 | July 4, 2016 | July 3, 2017 | | | | |
| Artificial Mains Network | NARDA | L2-16B | 000WX31025 | July 8, 2016 | July 7, 2017 | | | | |
| Artificial Mains Network (AUX) | NARDA | L2-16B | 000WX31026 | July 8, 2016 | July 7, 2017 | | | | |
| RF Cable | SCHWARZBECK | AK9515E | 96222 | July 4, 2016 | July 3, 2017 | | | | |
| Shielded Room | CHENGYU | 843 | PTS-002 | June 6, 2017 | June 5, 2018 | | | | |
| Conduction Cable | MXT | SE1 | S003 | June 6, 2017 | June 5, 2018 | | | | |

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9. RADIATED EMISSION

9.1TEST LIMIT

Standard FCC15.249

| Fundamental Frequency | Field Strength of Fundamental | Field Strength of Harmonics | | | | |
|-----------------------|-------------------------------|-----------------------------|--|--|--|--|
| | (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

| Frequency | Distance | Field Stre | Field Strengths Limit | | | | |
|---------------|----------|--------------------------|----------------------------|--|--|--|--|
| (MHz) | Meters | μ V/m | dB(μV)/m | | | | |
| 0.009 ~ 0.490 | 300 | 2400/F(kHz) | | | | | |
| 0.490 ~ 1.705 | 30 | 24000/F(kHz) | | | | | |
| 1.705 ~ 30 | 30 | 30 | | | | | |
| 30 ~ 88 | 3 | 100 | 40.0 | | | | |
| 88 ~ 216 | 3 | 150 | 43.5 | | | | |
| 216 ~ 960 | 3 | 200 | 46.0 | | | | |
| 960 ~ 1000 | 3 | 500 | 54.0 | | | | |
| Above 1000 | 3 | Other:74.0 dB(µV)/m (Pea | k) 54.0 dB(μV)/m (Average) | | | | |

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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9.2. 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)

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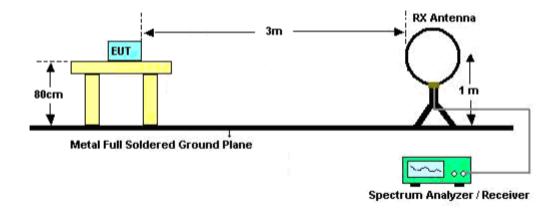
The following table is the setting of spectrum analyzer and receiver.

| 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 | 1GHz~26.5GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 1.5MHz/ 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 |

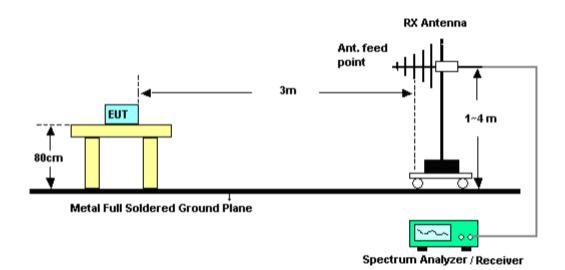
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9.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz

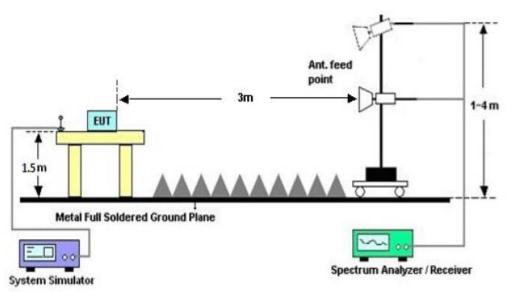


RADIATED EMISSION TEST SETUP 30MHz-1000MHz



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RADIATED EMISSION TEST SETUP ABOVE 1000MHz



Temperature: 22.4

Humidity: 52.5 %

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9.4. TEST RESULT

(Worst modulation: GFSK)

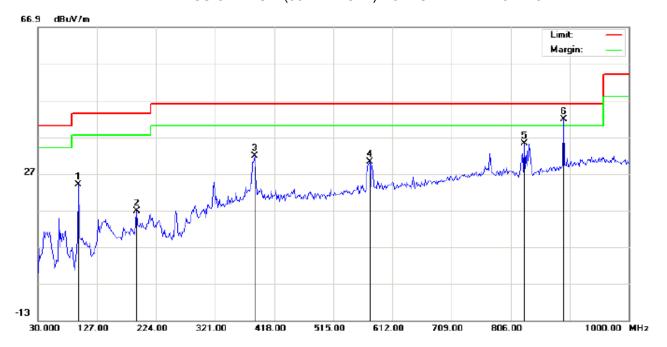
FOR BR/EDR

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



Site: site #1

Limit: FCC Class B 3M Radiation

EUT:Glow headphones M/N: CRA-LEDFH Mode:Low Channel TX

Note:

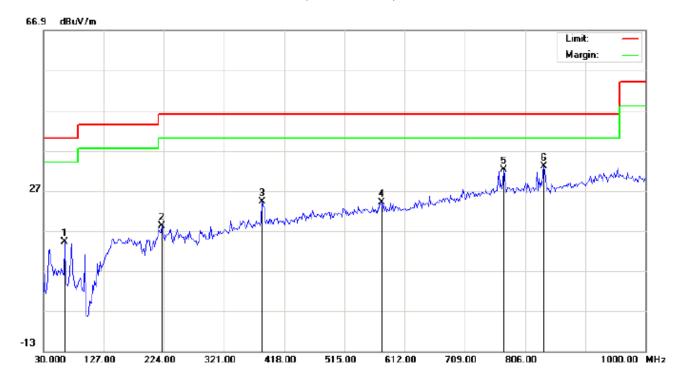
Power: Distance:

Polarization: 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 | | 96.2833 | 17.27 | 6.77 | 24.04 | 43.50 | -19.46 | peak | | | |
| 2 | | 191.6667 | 5.10 | 11.61 | 16.71 | 43.50 | -26.79 | peak | | | |
| 3 | | 385.6667 | 12.78 | 18.98 | 31.76 | 46.00 | -14.24 | peak | | | |
| 4 | | 574.8167 | 7.14 | 23.10 | 30.24 | 46.00 | -15.76 | peak | | | |
| 5 | | 828.6333 | 7.98 | 27.31 | 35.29 | 46.00 | -10.71 | peak | | | |
| 6 | * | 893.3000 | 13.28 | 28.44 | 41.72 | 46.00 | -4.28 | peak | | | |

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



Site: site #1

Limit: FCC Class B 3M Radiation

EUT:Glow headphones

M/N: CRA-LEDFH Mode:Low Channel TX

Note:

| Polarization: | Vertical | Temperatu | ıre: 22.4 |
|---------------|----------|-----------|-----------|
| Power: | | Humidity: | 52.5 % |

Distance:

| 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 | | 63.9500 | 7.66 | 6.61 | 14.27 | 40.00 | -25.73 | peak | | | |
| 2 | | 220.7667 | 7.07 | 11.04 | 18.11 | 46.00 | -27.89 | peak | | | |
| 3 | | 382.4333 | 5.20 | 18.95 | 24.15 | 46.00 | -21.85 | peak | | | |
| 4 | | 574.8167 | 1.42 | 22.60 | 24.02 | 46.00 | -21.98 | peak | | | |
| 5 | | 772.0500 | 5.19 | 26.93 | 32.12 | 46.00 | -13.88 | peak | | | |
| 6 | * | 836.7167 | 5.68 | 27.31 | 32.99 | 46.00 | -13.01 | peak | | | |

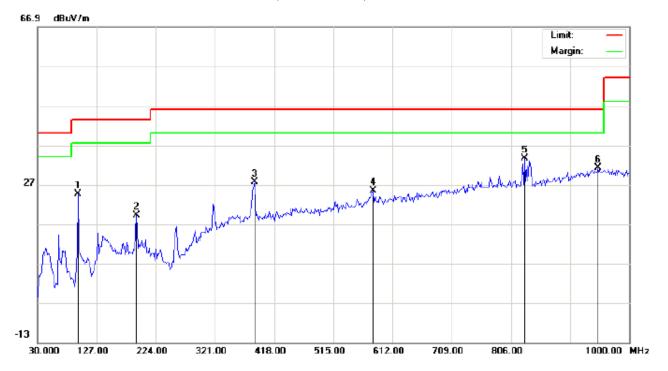
RESULT: PASS

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



Site: site #1 Limit: FCC Class B 3M Radiation

EUT:Glow headphones

M/N: CRA-LEDFH Mode:Middle Channel TX

Note:

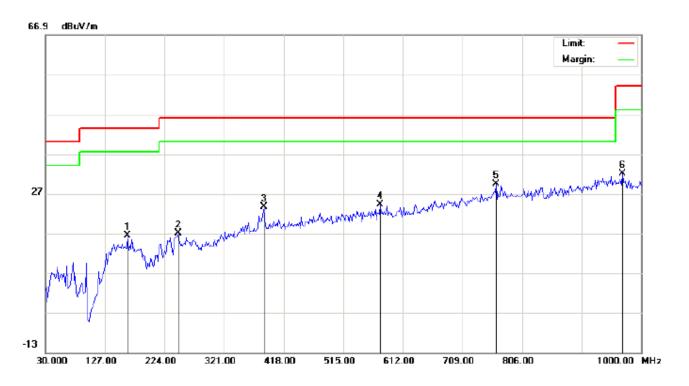
Polarization: Horizontal Temperature: 22.4
Power: Humidity: 52.5 %

Distance:

| 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 | | 96.2833 | 17.74 | 6.77 | 24.51 | 43.50 | -18.99 | peak | | | |
| 2 | | 191.6667 | 7.65 | 11.61 | 19.26 | 43.50 | -24.24 | peak | | | |
| 3 | | 385.6667 | 8.63 | 18.98 | 27.61 | 46.00 | -18.39 | peak | | | |
| 4 | | 579.6667 | 2.19 | 23.22 | 25.41 | 46.00 | -20.59 | peak | | | |
| 5 | * | 828.6333 | 6.33 | 27.31 | 33.64 | 46.00 | -12.36 | peak | | | |
| 6 | | 948.2667 | 1.27 | 29.95 | 31.22 | 46.00 | -14.78 | peak | | | |

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



Site: site #1 Limit: FCC Class B 3M Radiation

EUT:Glow headphones

M/N: CRA-LEDFH Mode:Middle Channel TX

Note:

| Polarization: | Vertical | Temperature: 22.4 |
|---------------|----------|-------------------|
| Power: | | Humidity: 52.5 % |

Distance:

| 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 | | 164.1833 | 1.33 | 15.07 | 16.40 | 43.50 | -27.10 | peak | | | |
| 2 | | 246.6333 | 3.34 | 13.57 | 16.91 | 46.00 | -29.09 | peak | | | |
| 3 | | 385.6667 | 4.66 | 18.98 | 23.64 | 46.00 | -22.36 | peak | | | |
| 4 | | 574.8167 | 1.65 | 22.60 | 24.25 | 46.00 | -21.75 | peak | | | |
| 5 | * | 763.9667 | 2.54 | 26.82 | 29.36 | 46.00 | -16.64 | peak | | · | |
| 6 | | 969.2833 | 2.27 | 29.81 | 32.08 | 54.00 | -21.92 | peak | | | |

RESULT: PASS

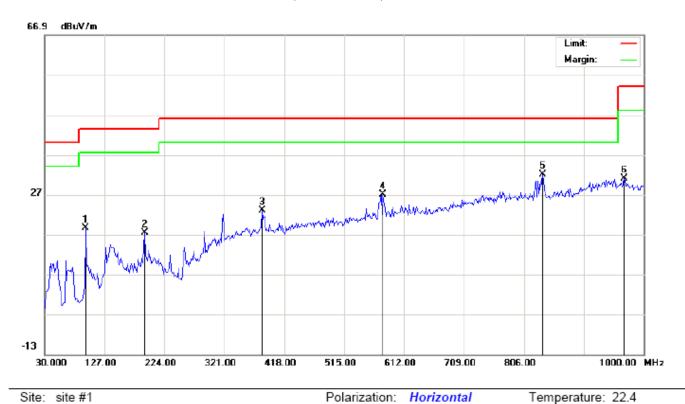
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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

Humidity: 52.5 %

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



Site: site #1 Limit: FCC Class B 3M Radiation

EUT:Glow headphones

M/N: CRA-LEDFH Mode:High Channel TX

Note:

| 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 | | 96.2833 | 11.77 | 6.77 | 18.54 | 43.50 | -24.96 | peak | | | |
| 2 | ! | 191.6667 | 5.71 | 11.61 | 17.32 | 43.50 | -26.18 | peak | | | |
| 3 | | 382.4333 | 4.11 | 18.95 | 23.06 | 46.00 | -22.94 | peak | | | |
| 4 | | 578.0500 | 3.73 | 23.18 | 26.91 | 46.00 | -19.09 | peak | | | |
| 5 | * | 836,7167 | 4.66 | 27.31 | 31.97 | 46.00 | -14.03 | peak | | | |

54.00 -22.91

peak

Power:

Distance:

RESULT: PASS

967.6667

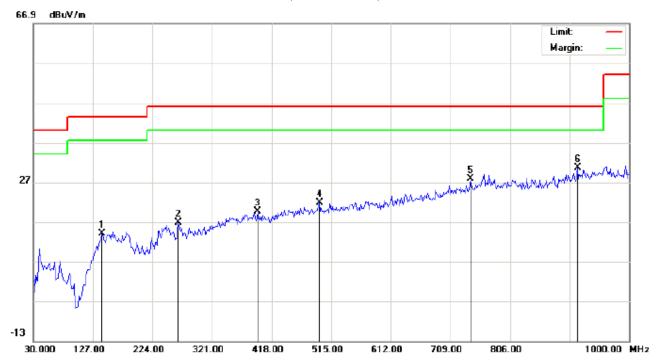
1.26

29.83

31.09

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



Site: site #1 Limit: FCC Class B 3M Radiation

EUT:Glow headphones

M/N: CRA-LEDFH Mode:High Channel TX

Note:

| Polarization: | Vertical | Temperature: 22.4 |
|---------------|----------|-------------------|
| Power: | | Humidity: 52.5 % |
| Distance: | | |

| 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 | | 141.5500 | -1.16 | 15.21 | 14.05 | 43.50 | -29.45 | peak | | | |
| 2 | | 266.0333 | 2.45 | 14.38 | 16.83 | 46.00 | -29.17 | peak | | | |
| 3 | | 395.3667 | 0.47 | 19.04 | 19.51 | 46.00 | -26.49 | peak | | | |
| 4 | | 495.6000 | 0.77 | 21.08 | 21.85 | 46.00 | -24.15 | peak | | | |
| 5 | | 741.3333 | 1.42 | 26.38 | 27.80 | 46.00 | -18.20 | peak | | | |
| 6 | * | 915.9333 | 1.46 | 29.05 | 30.51 | 46.00 | -15.49 | 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.

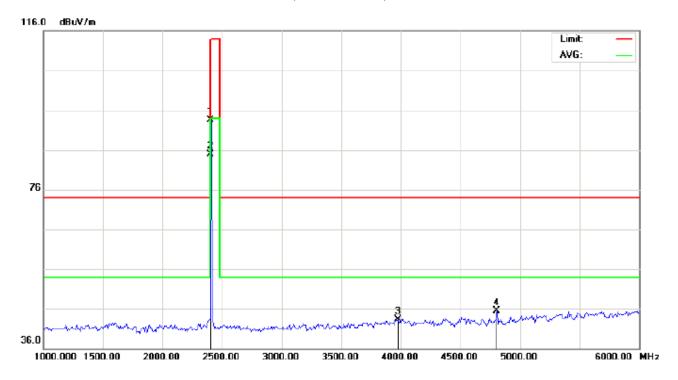
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RADIATED EMISSION ABOVE 1GHz

(Worst modulation: GFSK)

FOR BR/EDR

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



Site: site #1 Polarization: Horizontal Temperature: 22.7
Limit: FCC Class B 3M Radiation above 1GHz(PK)- Power: Humidity: 53.6 %

EUT: Glow headphones Distance:

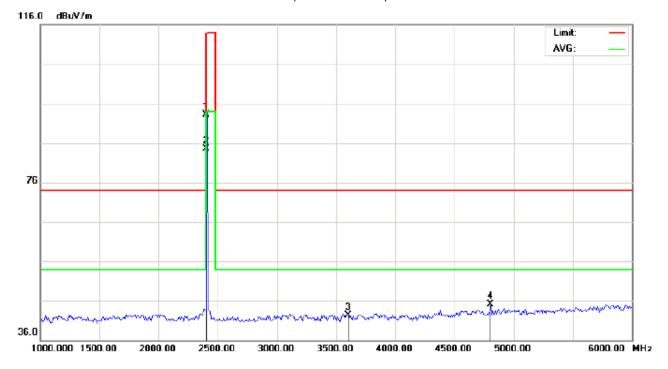
M/N: CRA-LEDFH Mode: Low Channel TX

Note:

| 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 | | 2402.000 | 83.10 | 10.32 | 93.42 | 114.00 | -20.58 | peak | | | |
| 2 | * | 2402.000 | 74.59 | 10.32 | 84.91 | 94.00 | -9.09 | AVG | 100 | 36 | |
| 3 | | 3975.000 | 28.19 | 15.04 | 43.23 | 74.00 | -30.77 | peak | | | |
| 4 | | 4804.000 | 37.74 | 7.69 | 45.43 | 74.00 | -28.57 | peak | | | |

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



Site: site #1 Polarization: Vertical Temperature: 22.7
Limit: FCC Class B 3M Radiation above 1GHz(PK)- Power: Humidity: 53.6 %

EUT: Glow headphones Distance:

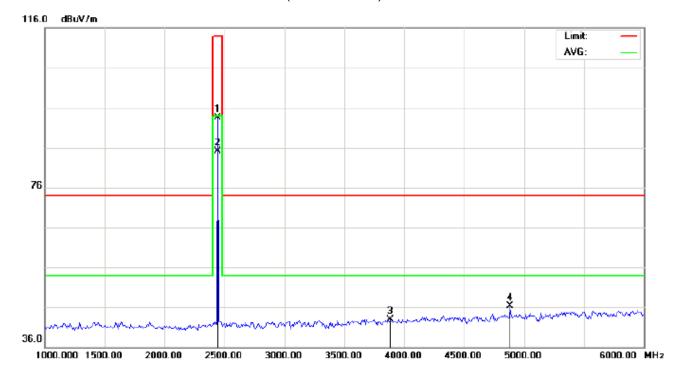
M/N: CRA-LEDFH Mode: Low Channel TX

Note:

| 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 | | 2402.000 | 82.69 | 10.32 | 93.01 | 114.00 | -20.99 | peak | | | |
| 2 | * | 2402.000 | 74.19 | 10.32 | 84.51 | 94.00 | -9.49 | AVG | 100 | 29 | |
| 3 | | 3600.000 | 29.56 | 12.73 | 42.29 | 74.00 | -31.71 | peak | | | |
| 4 | | 4804.000 | 37.38 | 7.69 | 45.07 | 74.00 | -28.93 | peak | | | |

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



Site: site #1 Polarization: Horizontal Temperature: 22.7

Limit: FCC Class B 3M Radiation above 1GHz(PK)- Power: Humidity: 53.6 %

EUT: Glow headphones Distance:

M/N: CRA-LEDFH

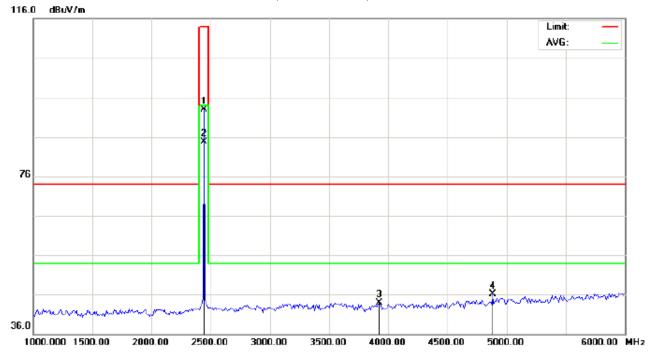
Mode: Middle Channel TX

Note:

| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|--------|---------|
| | - | MHz | dBu∀ | dB/m | dBu\//m | dBu∀/m | dB | | cm | degree | |
| 1 | | 2441.000 | 83.24 | 10.36 | 93.60 | 114.00 | -20.40 | peak | | | |
| 2 | * | 2441.000 | 74.65 | 10.36 | 85.01 | 94.00 | -8.99 | AVG | 100 | 37 | |
| 3 | | 3883.333 | 28.44 | 14.47 | 42.91 | 74.00 | -31.09 | peak | | | |
| 4 | | 4882.000 | 38.38 | 7.89 | 46.27 | 74.00 | -27.73 | peak | | | |

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



Site: site #1 Polarization: Vertical Temperature: 22.7

Limit: FCC Class B 3M Radiation above 1GHz(PK)- Power: Humidity: 53.6 %

EUT: Glow headphones Distance:

M/N: CRA-LEDFH

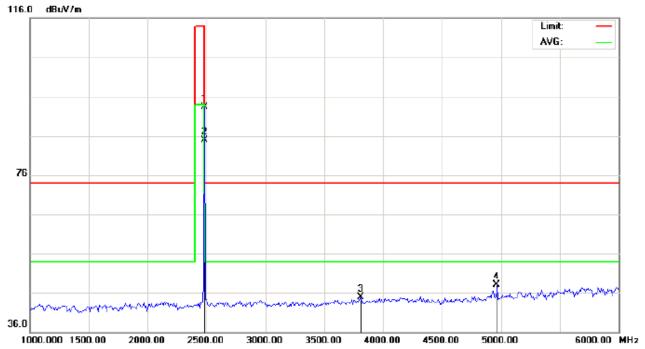
Mode: Middle Channel TX

Note:

| 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 | | 2441.000 | 82.49 | 10.36 | 92.85 | 114.00 | -21.15 | peak | | | |
| 2 | * | 2441.000 | 74.31 | 10.36 | 84.67 | 94.00 | -9.33 | AVG | 100 | 24 | |
| 3 | | 3925.000 | 29.08 | 14.73 | 43.81 | 74.00 | -30.19 | peak | | | |
| 4 | | 4882.000 | 38.31 | 7.89 | 46.20 | 74.00 | -27.80 | peak | | | |

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



Site: site #1 Polarization: Horizontal Temperature: 22.7
Limit: FCC Class B 3M Radiation above 1GHz(PK)- Power: Humidity: 53.6 %

EUT: Glow headphones Distance:

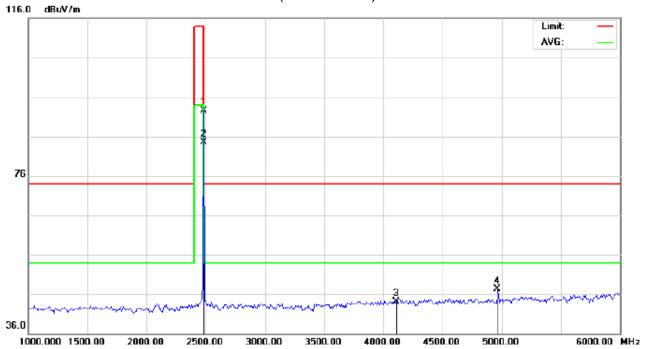
M/N: CRA-LEDFH Mode: High Channel TX

Note:

| 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 | | 2480.000 | 82.97 | 10.41 | 93.38 | 114.00 | -20.62 | peak | | | |
| 2 | * | 2480.000 | 74.41 | 10.41 | 84.82 | 94.00 | -9.18 | AVG | 100 | 39 | |
| 3 | | 3808.333 | 30.97 | 14.01 | 44.98 | 74.00 | -29.02 | peak | | | |
| 4 | | 4960.000 | 40.01 | 8.09 | 48.10 | 74.00 | -25.90 | peak | | | |

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



Site: site #1 Polarization: Vertical Temperature: 22.7 Limit: FCC Class B 3M Radiation above 1GHz(PK)- Power: Humidity: 53.6 %

EUT: Glow headphones Distance:

M/N: CRA-LEDFH Mode: High Channel TX

Note:

| 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 | | 2480.000 | 82.19 | 10.41 | 92.60 | 114.00 | -21.40 | peak | | | |
| 2 | * | 2480.000 | 74.11 | 10.41 | 84.52 | 94.00 | -9.48 | AVG | 100 | 26 | |
| 3 | | 4108.333 | 30.76 | 13.39 | 44.15 | 74.00 | -29.85 | peak | | | |
| 4 | | 4960.000 | 39.16 | 8.09 | 47.25 | 74.00 | -26.75 | 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.

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Field strength of the fundamental signal

1Mbps Result:

Peak value

| Frequency | Reading Level | Factor | Measurement | Limit | Over | Antenna |
|-----------|------------------|--------|-------------|----------|--------|--------------|
| (MHz) | (dBuv) | (dB/m) | (dBuv/m) | (dBuv/m) | (dB) | Polarization |
| 2402 | 83.10 | 10.32 | 93.42 | 114 | -20.58 | Horizontal |
| 2402 | 82.69 | 10.32 | 93.01 | 114 | -20.99 | Vertical |
| 2441 | 83.24 | 10.36 | 93.60 | 114 | -20.40 | Horizontal |
| 2441 | 82.49 | 10.36 | 92.85 | 114 | -21.15 | Vertical |
| 2480 | 82.97 | 10.41 | 93.38 | 114 | -20.62 | Horizontal |
| 2480 | 82.19 | 10.41 | 92.60 | 114 | -21.40 | Vertical |

Average value

| Frequency | Reading Level | Factor | Measurement | Limit | Over | Antenna |
|-----------|------------------|--------|-------------|----------|-------|--------------|
| (MHz) | (dBuv) | (dB/m) | (dBuv/m) | (dBuv/m) | (dB) | Polarization |
| 2402 | 74.59 | 10.32 | 84.91 | 94 | -9.09 | Horizontal |
| 2402 | 74.19 | 10.32 | 84.51 | 94 | -9.49 | Vertical |
| 2441 | 74.65 | 10.36 | 85.01 | 94 | -8.99 | Horizontal |
| 2441 | 74.31 | 10.36 | 84.67 | 94 | -9.33 | Vertical |
| 2480 | 74.41 | 10.41 | 84.82 | 94 | -9.18 | Horizontal |
| 2480 | 74.11 | 10.41 | 84.52 | 94 | -9.48 | Vertical |

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2Mbps Result:

Peak value

| Frequency | Reading Level | Factor | Measurement | Limit | Over | Antenna |
|-----------|------------------|--------|-------------|----------|--------|--------------|
| (MHz) | (dBuv) | (dB/m) | (dBuv/m) | (dBuv/m) | (dB) | Polarization |
| 2402 | 82.96 | 10.32 | 93.28 | 114 | -20.72 | Horizontal |
| 2402 | 82.61 | 10.32 | 92.93 | 114 | -21.07 | Vertical |
| 2441 | 83.16 | 10.36 | 93.52 | 114 | -20.48 | Horizontal |
| 2441 | 82.38 | 10.36 | 92.74 | 114 | -21.26 | Vertical |
| 2480 | 82.90 | 10.41 | 93.31 | 114 | -20.69 | Horizontal |
| 2480 | 82.10 | 10.41 | 92.51 | 114 | -21.49 | Vertical |

Average value

| Frequency | Reading Level | Factor | Measurement | Limit | Over | Antenna |
|-----------|------------------|--------|-------------|----------|-------|--------------|
| (MHz) | (dBuv) | (dB/m) | (dBuv/m) | (dBuv/m) | (dB) | Polarization |
| 2402 | 74.50 | 10.32 | 84.82 | 94 | -9.18 | Horizontal |
| 2402 | 74.10 | 10.32 | 84.42 | 94 | -9.58 | Vertical |
| 2441 | 74.56 | 10.36 | 84.92 | 94 | -9.08 | Horizontal |
| 2441 | 74.25 | 10.36 | 84.61 | 94 | -9.39 | Vertical |
| 2480 | 74.32 | 10.41 | 84.73 | 94 | -9.27 | Horizontal |
| 2480 | 74.02 | 10.41 | 84.43 | 94 | -9.57 | Vertical |

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3Mbps Result:

Peak value

| Frequency | Reading Level | Factor | Measurement | Limit | Over | Antenna |
|-----------|------------------|--------|-------------|----------|--------|--------------|
| (MHz) | (dBuv) | (dB/m) | (dBuv/m) | (dBuv/m) | (dB) | Polarization |
| 2402 | 82.89 | 10.32 | 93.21 | 114 | -20.79 | Horizontal |
| 2402 | 82.55 | 10.32 | 92.87 | 114 | -21.13 | Vertical |
| 2441 | 83.09 | 10.36 | 93.45 | 114 | -20.55 | Horizontal |
| 2441 | 82.32 | 10.36 | 92.68 | 114 | -21.32 | Vertical |
| 2480 | 82.82 | 10.41 | 93.23 | 114 | -20.77 | Horizontal |
| 2480 | 82.02 | 10.41 | 92.43 | 114 | -21.57 | Vertical |

Average value

| Frequency | Frequency Reading Level | | Measurement | Limit | Over | Antenna |
|-----------|-------------------------|--------|-------------|----------|-------|--------------|
| (MHz) | (dBuv) | (dB/m) | (dBuv/m) | (dBuv/m) | (dB) | Polarization |
| 2402 | 74.42 | 10.32 | 84.74 | 94 | -9.26 | Horizontal |
| 2402 | 74.03 | 10.32 | 84.35 | 94 | -9.65 | Vertical |
| 2441 | 74.49 | 10.36 | 84.85 | 94 | -9.15 | Horizontal |
| 2441 | 74.16 | 10.36 | 84.52 | 94 | -9.48 | Vertical |
| 2480 | 74.24 | 10.41 | 84.65 | 94 | -9.35 | Horizontal |
| 2480 | 73.93 | 10.41 | 84.34 | 94 | -9.66 | Vertical |

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10. BAND EDGE EMISSION

10.1. MEASUREMENT PROCEDURE

1The 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.

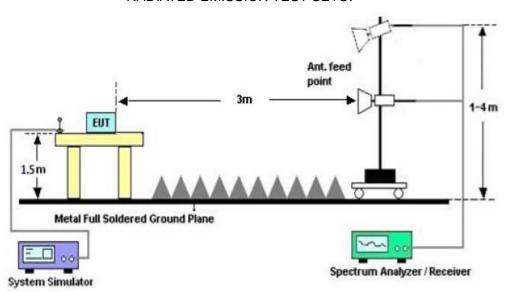
2Max hold the trace of the setup 1,and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.

3Set 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 |

10.2 TEST SETUP

RADIATED EMISSION TEST SETUP



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10.3 RADIATED TEST RESULT

(Worst modulation: GFSK)

FOR BR/EDR

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHz(PK) Power: Humidity: 60 %

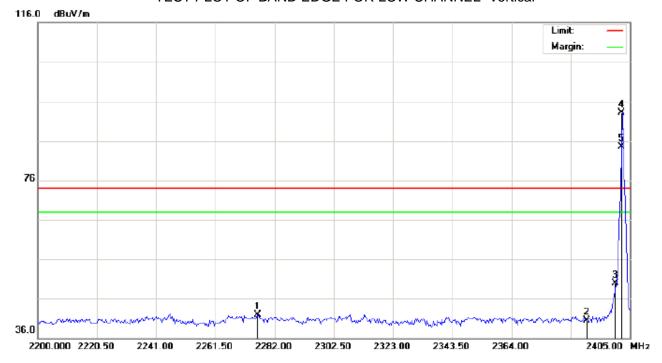
EUT: Glow headphones Distance:

M/N: CRA-LEDFH Mode: Low Channel TX

| 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 | | 2320.267 | 31.36 | 10.23 | 41.59 | 74.00 | -32.41 | peak | | | |
| 2 | | 2390.000 | 29.50 | 10.31 | 39.81 | 74.00 | -34.19 | peak | | | |
| 3 | | 2400.000 | 42.97 | 10.32 | 53.29 | 74.00 | -20.71 | peak | | | |
| 4 | * | 2402.000 | 83.12 | 10.32 | 93.44 | 74.00 | 19.44 | peak | | | |
| 5 | Х | 2402.000 | 74.61 | 10.32 | 84.93 | 74.00 | 10.93 | AVG | 100 | 35 | |

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TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHz(PK) Power: Humidity: 60 %

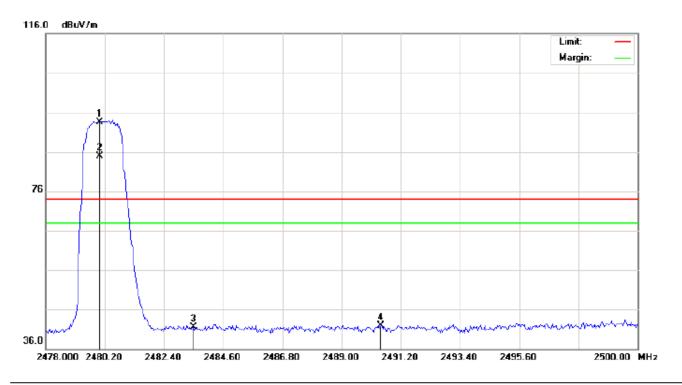
EUT: Glow headphones Distance:

M/N: CRA-LEDFH Mode: Low Channel TX

| 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 | | 2276.192 | 31.65 | 10.18 | 41.83 | 74.00 | -32.17 | peak | | | |
| 2 | | 2390.000 | 30.21 | 10.31 | 40.52 | 74.00 | -33.48 | peak | | | |
| 3 | | 2400.000 | 39.56 | 10.32 | 49.88 | 74.00 | -24.12 | peak | | | |
| 4 | * | 2402.000 | 82.70 | 10.32 | 93.02 | 74.00 | 19.02 | peak | | | |
| 5 | Х | 2402.000 | 74.20 | 10.32 | 84.52 | 74.00 | 10.52 | AVG | 100 | 25 | |

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHz(PK) Power: Humidity: 60 %

EUT: Glow headphones Distance:

M/N: CRA-LEDFH Mode: High Channel TX

| No. | Mk | Freq. | Reading | Factor dB/m | Measurement | Limit | | Detector | | Degree | Comment |
|----------|----|----------|---------|----------------|-------------|-------|--------|----------|-----|--------|---------|
| 4 | * | 2480.000 | 83.05 | 10.41 | 93.46 | 74.00 | 19.46 | nook | cm | degree | |
| <u> </u> | | | | 10.41 | 33.40 | 74.00 | 19.40 | ' | | | |
| 2 | Х | 2480.000 | 74.53 | 10.41 | 84.94 | 74.00 | 10.94 | AVG | 100 | 34 | |
| 3 | | 2483.500 | 31.19 | 10.41 | 41.60 | 74.00 | -32.40 | peak | | | |
| 4 | | 2490.466 | 31.56 | 10.42 | 41.98 | 74.00 | -32.02 | peak | | | |

Temperature: 26

Humidity: 60 %

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



Site: site #1

Limit: FCC Class B 3M Radiation above 1GHz(PK)

EUT: Glow headphones

M/N: CRA-LEDFH Mode: High Channel TX

Note:

| 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 | * | 2480.000 | 82.42 | 10.41 | 92.83 | 74.00 | 18.83 | peak | | | |
| 2 | Х | 2480.000 | 74.11 | 10.41 | 84.52 | 74.00 | 10.52 | AVG | 100 | 28 | |
| 3 | | 2483.500 | 31.26 | 10.41 | 41.67 | 74.00 | -32.33 | peak | | | |
| 4 | | 2491.090 | 32.45 | 10.42 | 42.87 | 74.00 | -31.13 | peak | | | |

Power:

Distance:

Polarization: Vertical

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.

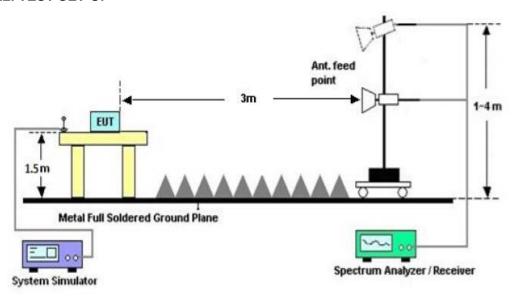
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11. 20DB BANDWIDTH

11.1. 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 ≥ RBW; Sweep = auto; Detector function = peak
- 3. Set SPA Trace 1 Max hold, then View.

11.2. TEST SET-UP



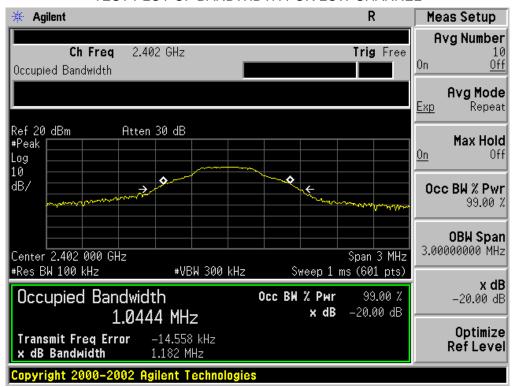
11.3. LIMITS AND MEASUREMENT RESULTS

FOR BR/EDR

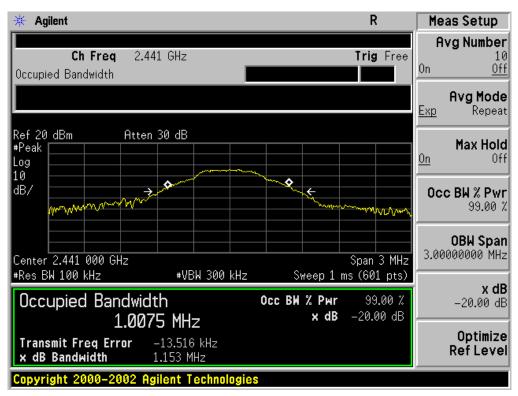
| BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT | | | | | | | | | |
|---|--------------------|----------------------------|-------|--------|--|--|--|--|--|
| | Measurement Result | | | | | | | | |
| Applicable Limits | | Doorle | | | | | | | |
| | | 99%OBW (MHz) -20dB BW(MHz) | | Result | | | | | |
| | Low Channel | 1.044 | 1.182 | PASS | | | | | |
| N/A | Middle Channel | 1.008 | 1.153 | PASS | | | | | |
| | High Channel | 1.033 | 1.185 | PASS | | | | | |

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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

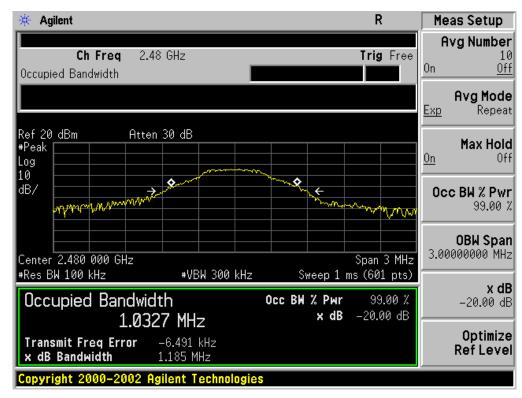


TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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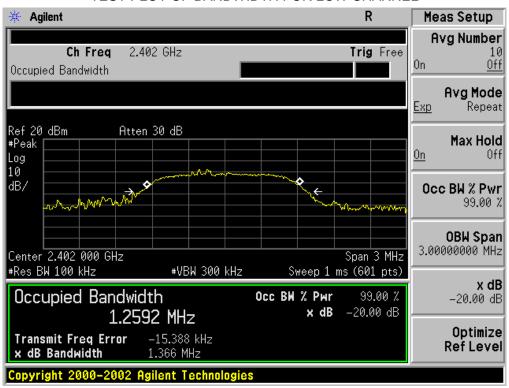
TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



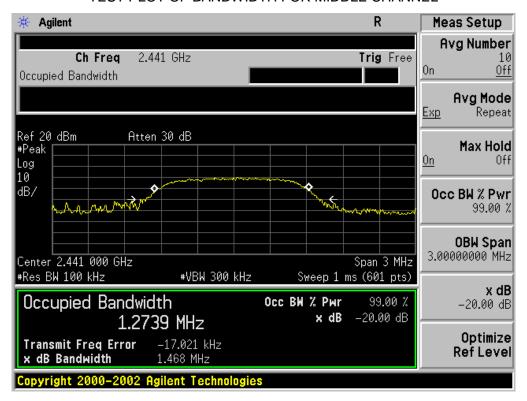
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| BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT | | | | | | | | | | |
|---|--------------------|--------------|---------------|--------|--|--|--|--|--|--|
| | Measurement Result | | | | | | | | | |
| Applicable Limits | | Do avel 6 | | | | | | | | |
| | | 99%OBW (MHz) | -20dB BW(MHz) | Result | | | | | | |
| | Low Channel | 1.259 | 1.366 | PASS | | | | | | |
| N/A | Middle Channel | 1.274 | 1.468 | PASS | | | | | | |
| | High Channel | 1.268 | 1.384 | PASS | | | | | | |

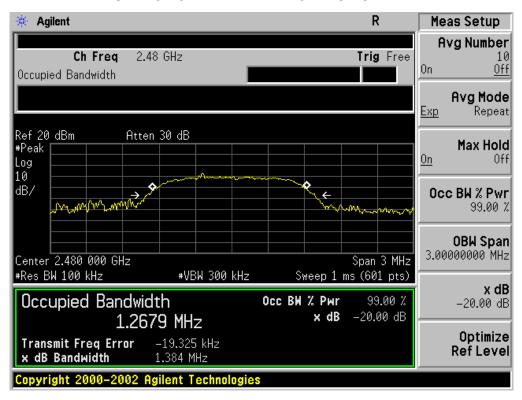
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



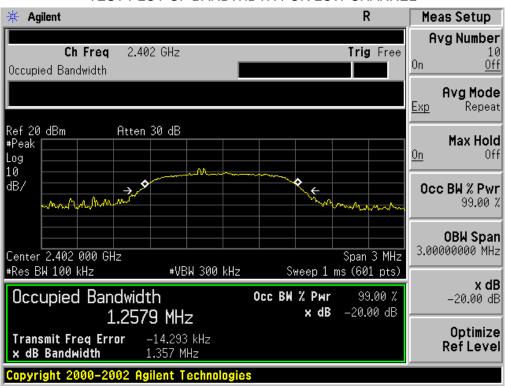
TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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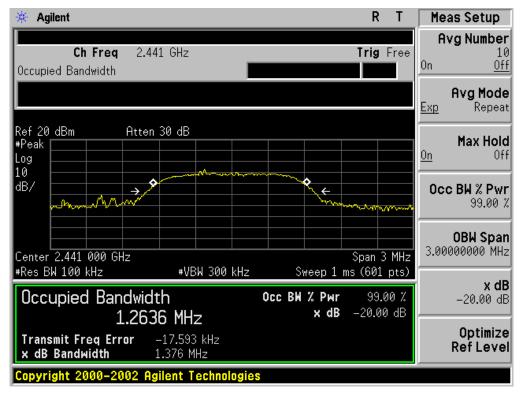
| BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT | | | | | | | | | | |
|---|--------------------|-----------------|---------------|--------|--|--|--|--|--|--|
| | Measurement Result | | | | | | | | | |
| Applicable Limits | | Test Data (MHz) | | | | | | | | |
| | | 99%OBW (MHz) | -20dB BW(MHz) | Result | | | | | | |
| | Low Channel | 1.258 | 1.357 | PASS | | | | | | |
| N/A | Middle Channel | 1.264 | 1.376 | PASS | | | | | | |
| | High Channel | 1.283 | 1.439 | PASS | | | | | | |

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

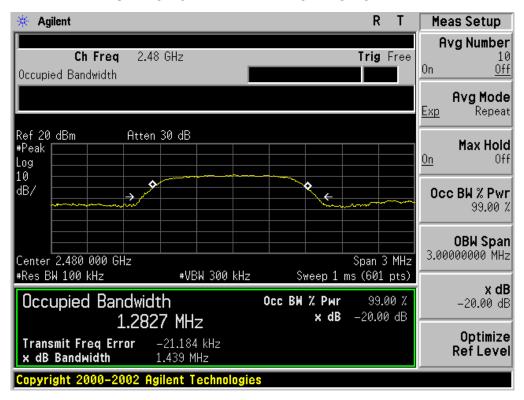


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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

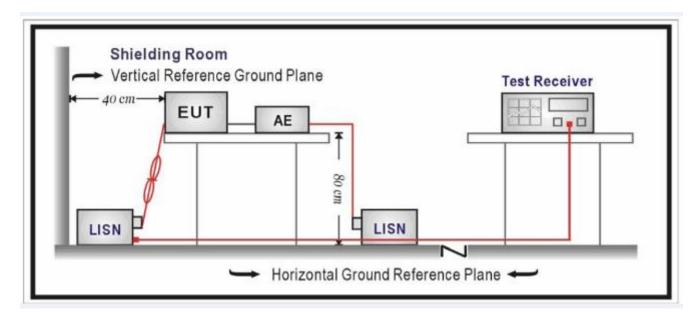
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

| Fraguenay | 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.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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12.3. 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 (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.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 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.

12.4. 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.

Humidity: 60 %

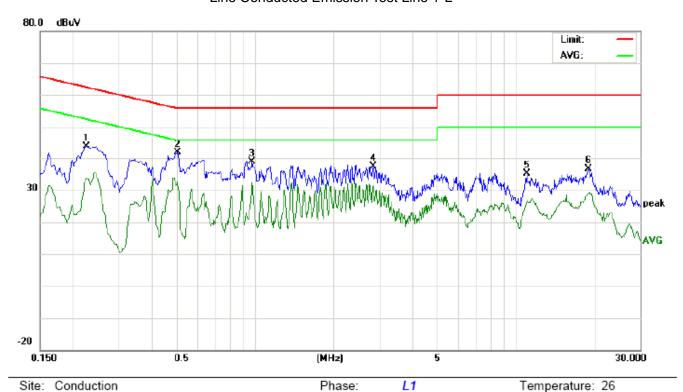
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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter(worst case)

FOR BR/EDR

Line Conducted Emission Test Line 1-L



Limit: FCC Class B Conduction(QP)

EUT:Glow headphones M/N:CRA-LEDFH

Mode:BT Link with charging

Note:

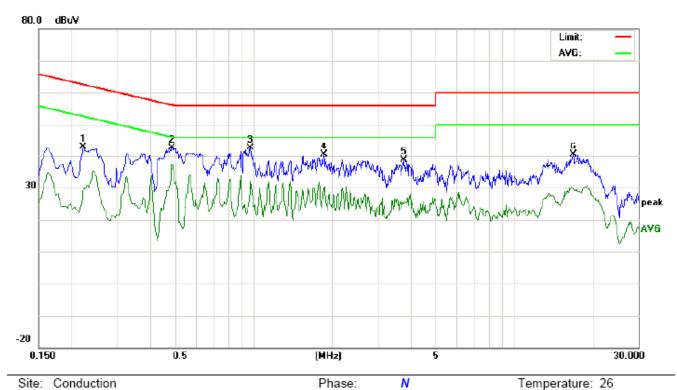
| No. | No. Freq. | | Reading_Level (dBuV) | | Correct Measurement Factor (dBuV) | | | Limit (dBuV) | | Margin (dB) | | P/F | Comment | |
|-----|-----------|-------|-------------------------|-------|--------------------------------------|-------|----|-----------------|-------|----------------|--------|--------|---------|--|
| | (MHz) | Peak | QP | AVG | dB | Peak | QP | AVG | QP | AVG | QP | AVG | | |
| 1 | 0.2260 | 33.64 | | 23.34 | 10.24 | 43.88 | | 33.58 | 62.59 | 52.59 | -18.71 | -19.01 | Р | |
| 2 | 0.5020 | 31.52 | | 22.00 | 10.40 | 41.92 | | 32.40 | 56.00 | 46.00 | -14.08 | -13.60 | Р | |
| 3 | 0.9780 | 28.49 | | 21.88 | 10.38 | 38.87 | | 32.26 | 56.00 | 46.00 | -17.13 | -13.74 | Р | |
| 4 | 2.8420 | 26.78 | | 20.76 | 10.51 | 37.29 | | 31.27 | 56.00 | 46.00 | -18.71 | -14.73 | Р | |
| 5 | 11.0579 | 25.04 | | 16.83 | 10.10 | 35.14 | | 26.93 | 60.00 | 50.00 | -24.86 | -23.07 | Р | |
| 6 | 19.0419 | 26.58 | | 18.88 | 10.12 | 36.70 | | 29.00 | 60.00 | 50.00 | -23.30 | -21.00 | Р | |

Power:

Humidity: 60 %

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Line Conducted Emission Test Line 2-N



Site: Conduction

Limit: FCC Class B Conduction(QP)

EUT:Glow headphones M/N:CRA-LEDFH

Mode:BT Link with charging

Note:

| No. | No. Freq. | | Reading_Level (dBuV) | | Correct Measurement Factor (dBuV) | | | Limit (dBuV) | | Margin (dB) | | P/F | Comment | |
|-----|-----------|-------|-------------------------|-------|--------------------------------------|-------|----|-----------------|-------|----------------|--------|--------|---------|--|
| | (MHz) | Peak | QP | AVG | dB | Peak | QP | AVG | QP | AVG | QP | AVG | | |
| 1 | 0.2220 | 32.69 | | 19.84 | 10.24 | 42.93 | | 30.08 | 62.74 | 52.74 | -19.81 | -22.66 | Р | |
| 2 | 0.4863 | 32.34 | | 27.03 | 10.39 | 42.73 | | 37.42 | 56.23 | 46.23 | -13.50 | -8.81 | Р | |
| 3 | 0.9700 | 32.25 | | 18.69 | 10.38 | 42.63 | | 29.07 | 56.00 | 46.00 | -13.37 | -16.93 | Р | |
| 4 | 1.8660 | 30.09 | | 19.91 | 10.26 | 40.35 | | 30.17 | 56.00 | 46.00 | -15.65 | -15.83 | Р | |
| 5 | 3.7660 | 28.11 | | 14.75 | 10.47 | 38.58 | | 25.22 | 56.00 | 46.00 | -17.42 | -20.78 | Р | |
| 6 | 16.9019 | 30.26 | | 19.82 | 10.13 | 40.39 | | 29.95 | 60.00 | 50.00 | -19.61 | -20.05 | Р | |

Power:

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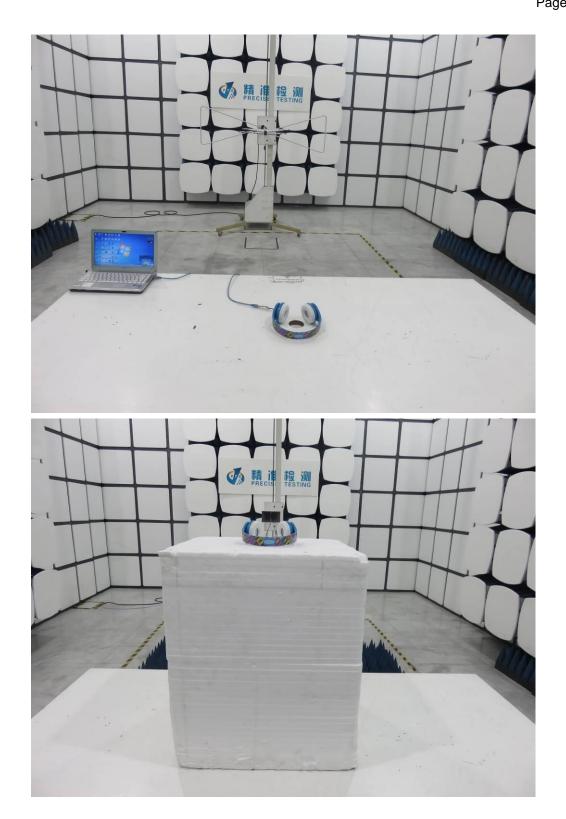
APPENDIX A: PHOTOGRAPHS OF TEST SETUP

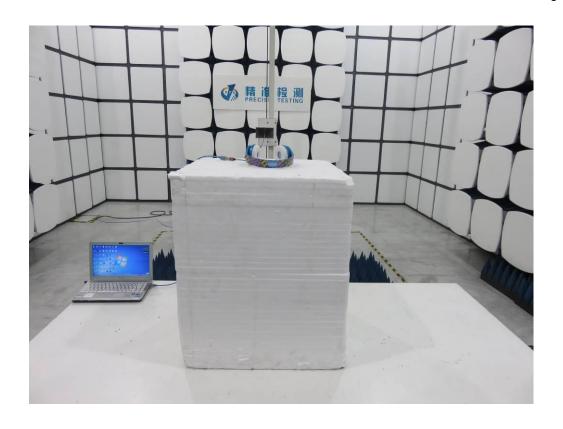
FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP







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APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT



BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



BACK VIEW OF EUT



LEFT VIEW OF EUT



RIGHT VIEW OF EUT



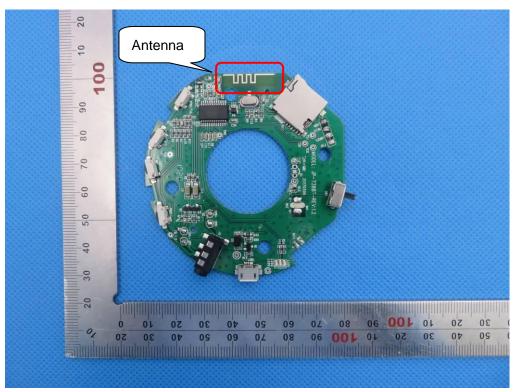
VIEW OF EUT (PORT)



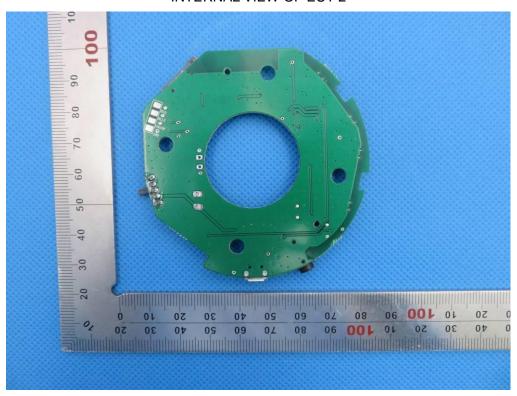
OPEN VIEW OF EUT



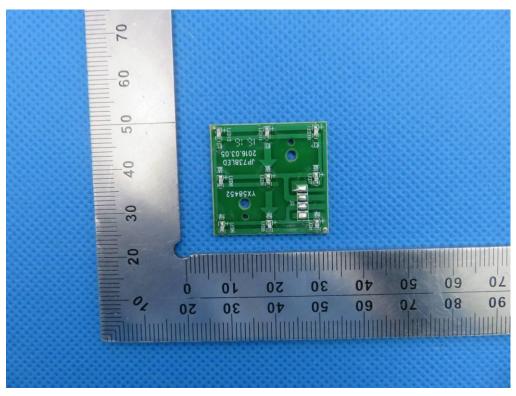
INTERNAL VIEW OF EUT-1



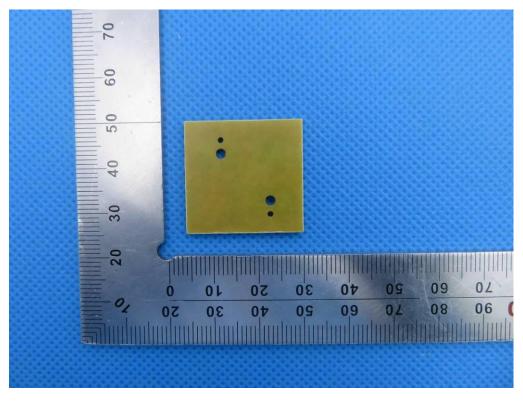
INTERNAL VIEW OF EUT-2



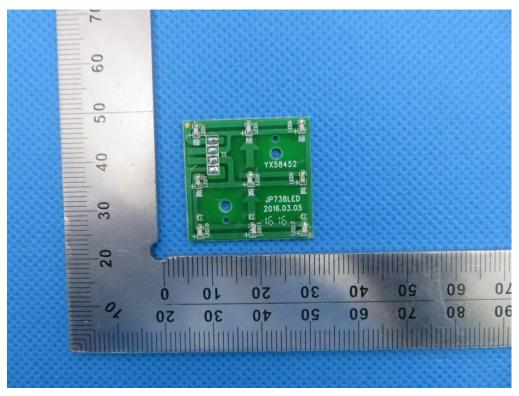
INTERNAL VIEW OF EUT-3



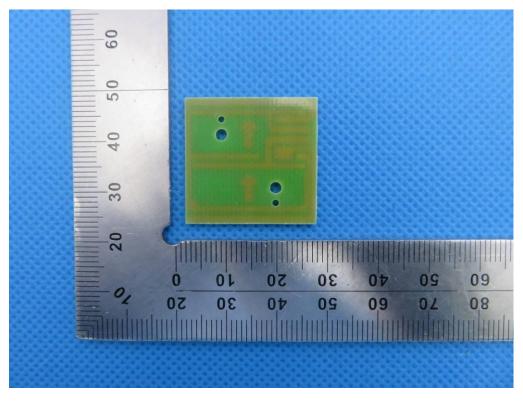
INTERNAL VIEW OF EUT-4



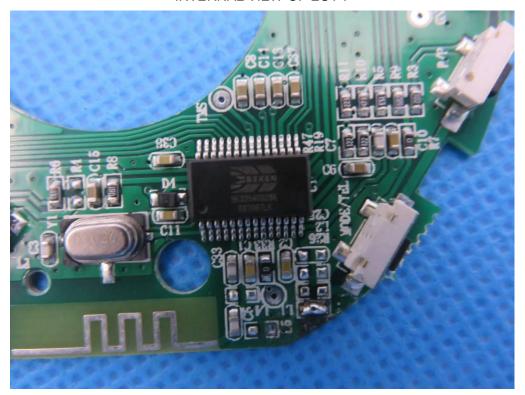
INTERNAL VIEW OF EUT-5



INTERNAL VIEW OF EUT-6



INTERNAL VIEW OF EUT-7



VIEW OF ADAPTER(AE)



The adapter was supplied by AGC

Series Model CRA-LEDFH-BLK

TOP VIEW OF EUT



BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



BACK VIEW OF EUT



LEFT VIEW OF EUT



RIGHT VIEW OF EUT



VIEW OF EUT (PORT)



----END OF REPORT----