FCC Test Report

Report No.: AGC00924151204FE03

| FCC ID | : | QIFB25 |
|----------------------------------|---|------------------------|
| APPLICATION PURPOSE | : | Original Equipment |
| PRODUCT DESIGNATION | : | Bluetooth Speaker |
| BRAND NAME | : | My Music |
| MODEL NAME | : | B25 |
| CLIENT | : | My Music Group Limited |
| DATE OF ISSUE | : | Dec.23,2015 |
| STANDARD(S) TEST PROCEDURE(S) | : | FCC Part 15 Rules |
| REPORT VERSION | : | V1.0 |



CAUTION:

This report shall not be reproduced except in full without the written permission of the test laboratory and shall not be quoted out of context.



Report Revise Record

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|-----------------------|-------------|-------------|---------------|-----------------|
| V1.0 | / | Dec.23,2015 | Valid | Original Report |

TABLE OF CONTENTS

| 1. VERIFICATION OF CONFORMITY | 4 |
|---|----|
| 2. GENERAL INFORMATION | 5 |
| 2.1. PRODUCT DESCRIPTION | 5 |
| 2.2. TABLE OF CARRIER FREQUENCYS | 5 |
| 3. MEASUREMENT UNCERTAINTY | 6 |
| 4. DESCRIPTION OF TEST MODES | 6 |
| 5. SYSTEM TEST CONFIGURATION | 8 |
| 5.1. CONFIGURATION OF EUT SYSTEM | 8 |
| 5.2. EQUIPMENT USED IN EUT SYSTEM | 8 |
| 5.3. SUMMARY OF TEST RESULTS | 8 |
| 6. TEST FACILITY | 9 |
| 7. ALL TEST EQUIPMENT LIST | 9 |
| 8. RADIATED EMISSION | 11 |
| 8.1TEST LIMIT | 11 |
| 8.2. MEASUREMENT PROCEDURE | 12 |
| 8.3. TEST SETUP | 14 |
| 8.4. TEST RESULT | 16 |
| 9. BAND EDGE EMISSION | 29 |
| 9.1. MEASUREMENT PROCEDURE | 29 |
| 9.2 TEST SETUP | 29 |
| 9.3 RADIATED TEST RESULT | 30 |
| 10. 20DB BANDWIDTH | 34 |
| 10.1. MEASUREMENT PROCEDURE | 34 |
| 10.2. TEST SET-UP | 34 |
| 10.3. LIMITS AND MEASUREMENT RESULTS | 34 |
| 11. FCC LINE CONDUCTED EMISSION TEST | 41 |
| 11.1. LIMITS OF LINE CONDUCTED EMISSION TEST | 41 |
| 11.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST | 41 |
| 11.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST | 42 |
| 11.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST | 42 |
| 11.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST | 43 |
| APPENDIX A: PHOTOGRAPHS OF TEST SETUP | 45 |
| APPENDIX B: PHOTOGRAPHS OF EUT | 48 |

| Applicant | My Music Group Limited | |
|--------------------------|---|--|
| Address | Room No.2026, Global Logistics Service Center, China South City, Pinghu Town, Longgang, SZ, China. | |
| Manufacturer | Dongguan Fulun Electronic Co.,Limited | |
| Address | 4F, Building A, Huangjinye Industrial Park, No.216 Shaxin Road, Keyuan City, Tangxia, Dongguan.CN | |
| Product Designation | Bluetooth Speaker | |
| Brand Name | My Music | |
| Test Model | B25 | |
| Date of test | Dec.11,2015 to Dec.15,2015 | |
| Deviation | None | |
| Condition of Test Sample | Normal | |
| Report Template | AGCRT-US-BR/RF | |

1. VERIFICATION OF CONFORMITY

We hereby certify that:

The above equipment was tested by Dongguan Precise Testing Service Co., Ltd. The test data, data

evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2009) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.249.

Trime Huang-Tested By Time Huang(Huang Nanhui) Dec.23,2015 Formeste **Reviewed By** Forrest Lei(Lei Yonggang) Dec.23,2015 Solya shory Approved By Solger Zhang(Zhang Hongyi) Dec.23,2015 Authorized Officer

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

| Operation Frequency | 2.402 GHz to 2.480GHz |
|---|--|
| RF Output Power | 2.04dBm(Max) |
| Bluetooth Version | V2.1+EDR |
| Modulation | GFSK, π /4-DQPSK, 8DPSK |
| Number of channels | 79 |
| Hardware Version | V1.0 |
| Software Version | V1.0 |
| Antenna Designation | PCB Antenna (Met 15.203 Antenna requirement) |
| Antenna Gain | 0dBi |
| Power Supply | DC3.7V |
| Note: The USB port only used for charging and can't be used to transfer data with PC. | |

2.2. TABLE OF CARRIER FREQUENCYS

| 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 |

3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y $\pm U$, 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 without charging | |
| Note: | | |

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.

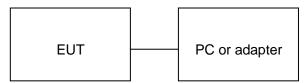
Software Setting

| ₩ BK3256 RF Test - V1.3 | |
|--|----------|
| 文件 ④ 帮助 创 | |
| ₽F测试 | <u> </u> |
| 通讯端口 COM3 ▼ ● Close | |
| 仪器测试 TX RX 数据类型 Pn9 退出测试 DUT测试模式 功率 1 1 Hopping 包类型 DH1 配置 | |
| <pre>init finished Bluetooth controller enabled: fc:58:fa:45:42:14 IA app_wave_file_play_stop() [enable_complete 0 00] app_wave_file_play_stop() [CMD] singlewave test mode enable app_bt_enable_dut_mode() OK RF Reg: Ox00910000: 0017be88 RF Reg: Ox009100008: 4182e24a Bluetooth controller disabled: fc:58:fa:45:42:14 [disable_complete 0 00] Enter Dut test mode success! [CMD] test mode config, d_mode: 1, freq: 2, power level: 1, p_mode: 1, hopping: 0. EUT TEST MODE START</pre> | |
| | _ |

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

| ltem | Equipment | Model No. | ID or Specification | Remark |
|------|-----------------------------|-----------|---------------------|--------|
| 1 | Bluetooth Speaker | My Music | B25 | EUT |
| 2 | Control box | N/A | N/A | A.E |
| 3 | PC | Sony | E1412AYCW | A.E |
| 4 | USB Cable | N/A | 0.8m, unshielded | A.E |
| 6 | Temporary Antenna Connector | T10 | N/A | A.E |

5.3. SUMMARY OF TEST RESULTS

| FCC RULES | DESCRIPTION OF TEST | RESULT |
|-----------|---------------------|-----------|
| §15.249 | Radiated Emission | Compliant |
| §15.249 | Band Edges | Compliant |
| §15.207 | Conduction Emission | Compliant |
| N/A | BANDWITH | Compliant |

6. TEST FACILITY

| Site | Site Dongguan Precise Testing Service Co., Ltd. | |
|--|--|--|
| Location | Location Building D,Baoding Technology Park,Guangming Road2,Dongcheng District, Dongguan, Guangdong, China, | |
| FCC Registration No. 371540 | | |
| Description The test site is constructed and calibrated to meet the FCC requirements documents ANSI C63.4:2009. | | |

7. ALL 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, 2015 | July 3, 2016 | | | | |
| Trilog Broadband Antenna (25M-1GHz) | SCHWARZBECK | VULB9160 | 9160-3355 | July 4, 2015 | July 3, 2016 | | | | |
| Signal Amplifier | SCHWARZBECK | BBV 9475 | 9745-0013 | July 4, 2015 | July 3, 2016 | | | | |
| RF Cable SCHWARZBECK | | AK9515E | 96221 | July 4, 2015 | July 3, 2016 | | | | |
| 3m Anechoic Chamber | CHENGYU | 966 | PTS-001 | June 6, 2015 | June 5, 2016 | | | | |
| MULTI-DEVICE Positioning Controller | Max-Full | MF-7802 | MF780208339 | N/A | N/A | | | | |
| Active loop antenna (9K-30MHz) | Schwarzbeck | FMZB1519 | 1519-038 | June 6, 2015 | June 5, 2016 | | | | |
| Spectrum analyzer | Agilent | E4407B | MY46185649 | June 6, 2015 | June 5, 2016 | | | | |
| Radiation Cable 1 | Radiation Cable 1 MXT | | R005 | June 6, 2015 | June 5, 2016 | | | | |
| Radiation Cable 2 | MXT | RS1 | R006 | June 6, 2015 | June 5, 2016 | | | | |

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, 2015 | July 3, 2016 | | | | |
| Horn Antenna (1G-18GHz) | SCHWARZBECK | BBHA9120D | 9120D-1246 | July 11, 2015 | July 10, 2016 | | | | |
| Spectrum Analyzer | Agilent | E4411B | MY4511453 | July 4, 2015 | July 3, 2016 | | | | |
| Signal Amplifier | Signal Amplifier SCHWARZBECK | | 9718-269 | July 7, 2015 | July 6, 2016 | | | | |
| RF Cable | SCHWARZBECK | AK9515H | 96220 | July 8, 2015 | July 7, 2016 | | | | |
| 3m Anechoic Chamber | CHENGYU | 966 | PTS-001 | June 6, 2015 | June 5, 2016 | | | | |
| MULTI-DEVICE Positioning Controller | Max-Full | MF-7802 | MF780208339 | N/A | N/A | | | | |
| Horn Ant (18G-40GHz) | Schwarzbeck | BBHA 9170 | 9170-181 | June 6, 2015 | June 5, 2016 | | | | |
| Radiation Cable 1 MXT | | RS1 | R005 | June 6, 2015 | June 5, 2016 | | | | |
| Radiation Cable 2 | MXT | RS1 | R006 | June 6, 2015 | June 5, 2016 | | | | |

| Conducted Emission Test Site | | | | | | | | | |
|-----------------------------------|---|---------------------|--------------------|--------------|--------------|--|--|--|--|
| Name of Equipment | Serial Number | Last Calibration | Due Calibration | | | | | | |
| EMI Test Receiver | Rohde & Schwarz | ESCI | 101417 | July 4, 2015 | July 3, 2016 | | | | |
| Artificial Mains Network | Narda | L2-16B | 000WX31025 | July 8, 2015 | July 7, 2016 | | | | |
| Artificial Mains Network (AUX) | Narda | L2-16B | 000WX31026 | July 8, 2015 | July 7, 2016 | | | | |
| RF Cable | SCHWARZBECK | AK9515E | 96222 | July 4, 2015 | July 3, 2016 | | | | |
| Shielded Room | Shielded Room CHENGYU 843 | | PTS-002 | June 6,2015 | June 5,2016 | | | | |
| Conduction Cable | MXT | SE1 | S003 | June 6,2015 | June 5,2016 | | | | |

8. RADIATED EMISSION

8.1TEST 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 Strer | ngths 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 (Peak) 54.0 dB(µV)/m (Average) | | | | | | |
| Remark: (1) Emission level dB μ V = 20 log Emission level μ V/m | | | | | | | | |
| (2) The smalle | er limit shall apply at the cros | s point between two frequen | cy bands. | | | | | |
| (3) Distance is | (3) Distance is the distance in meters between the measuring instrument, antenna and the closest | | | | | | | |

point of any part of the device or system.

8.2. MEASUREMENT PROCEDURE

- 1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1.5MHz VBW and RBW for peak reading. Then 1.5MHz RBW and 10Hz VBW for average reading in spectrum analyzer.

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

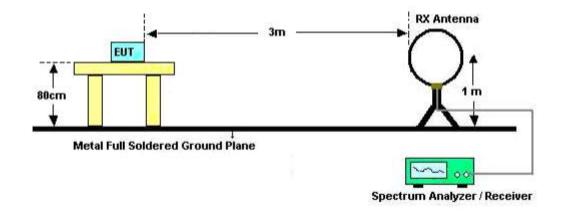
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

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 Stan Fraguanay | 1GHz~26.5GHz | | | |
| Start ~Stop Frequency | 1.5MHz/1.5MHz for Peak, 1.5MHz/10Hz for Average | | | |

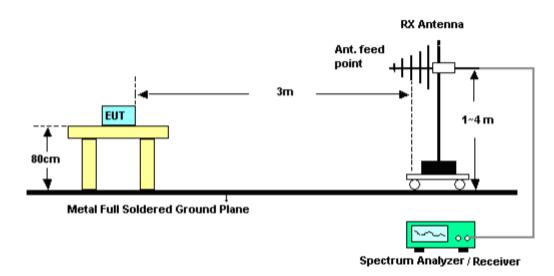
| Receiver Parameter | Setting |
|-----------------------|--------------------------------|
| Start ~Stop Frequency | 9KHz~150KHz/RB 200Hz for QP |
| Start ~Stop Frequency | 150KHz~30MHz/RB 9KHz for QP |
| Start ~Stop Frequency | 30MHz~1000MHz/RB 120KHz for QP |

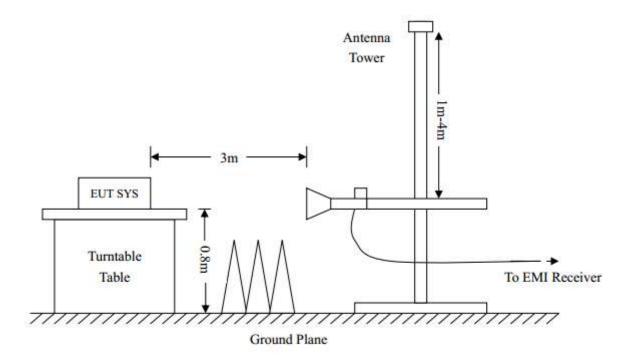
8.3. TEST SETUP



Radiated Emission Test-Setup Frequency Below 30MHz

RADIATED EMISSION TEST SETUP 30MHz-1000MHz





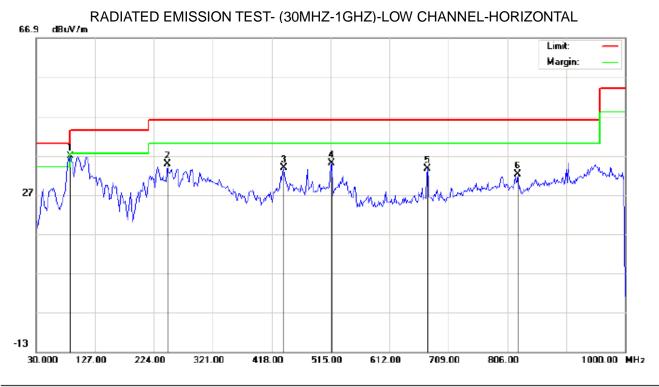
RADIATED EMISSION TEST SETUP ABOVE 1000MHz

8.4. TEST RESULT

(Worst modulation: GFSK)

RADIATED EMISSION BELOW 30MHZ

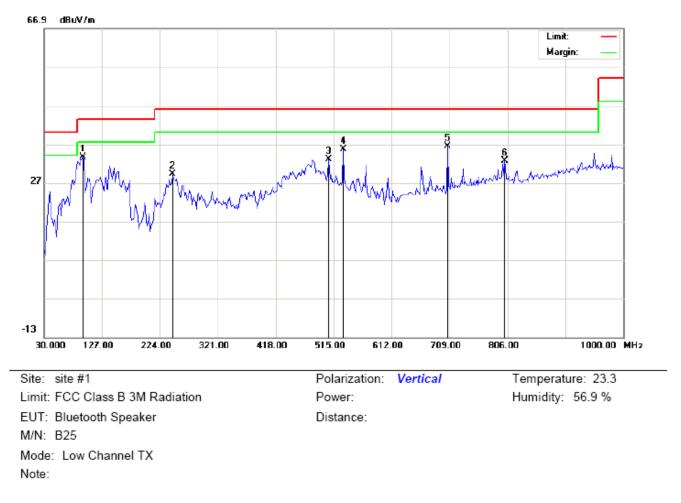
No emission found between lowest internal used/generated frequencies to 30MHz. **RADIATED EMISSION BELOW 1GHZ**



Site: site #1 Limit: FCC Class B 3M Radiation EUT: Bluetooth Speaker M/N: B25 Mode: Low Channel TX Note: Polarization: *Horizontal* Power: Temperature: 23.3 Humidity: 56.9 %

| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| | • | MHz | dBu∀ | dB/m | dBu∀/m | dBuV/m | dB | | cm | degree | |
| 1 | * | 86.5832 | 27.36 | 9.52 | 36.88 | 40.00 | -3.12 | peak | | | |
| 2 | | 246.6333 | 21.03 | 13.77 | 34.80 | 46.00 | -11.20 | peak | | | |
| 3 | | 437.4000 | 13.60 | 20.21 | 33.81 | 46.00 | -12.19 | peak | | | |
| 4 | | 516.6167 | 13.36 | 21.58 | 34.94 | 46.00 | -11.06 | peak | | | |
| 5 | | 675.0500 | 9.10 | 24.52 | 33.62 | 46.00 | -12.38 | peak | | | |
| 6 | | 823.7833 | 4.96 | 27.32 | 32.28 | 46.00 | -13.72 | peak | | | |

Distance:



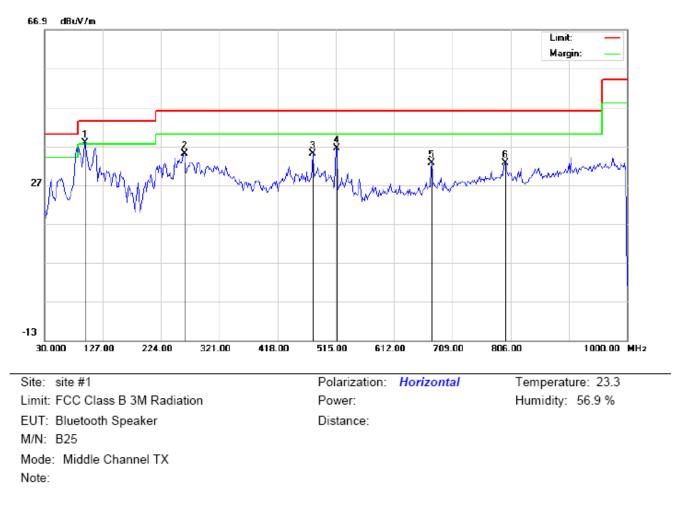
RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL -VERTICAL

| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|--------|---------|
| | • | MHz | dBu∨ | dB/m | dBuV/m | dBuV/m | dB | | cm | degree | |
| 1 | | 94.6667 | 32.14 | 1.42 | 33.56 | 43.50 | -9.94 | peak | | | |
| 2 | | 245.0167 | 15.81 | 13.41 | 29.22 | 46.00 | -16.78 | peak | | | |
| 3 | | 506.9167 | 11.76 | 21.32 | 33.08 | 46.00 | -12.92 | peak | | | |
| 4 | | 531.1667 | 13.70 | 21.97 | 35.67 | 46.00 | -10.33 | peak | | | |
| 5 | * | 705.7667 | 11.11 | 25.36 | 36.47 | 46.00 | -9.53 | peak | | | |
| 6 | | 801.1500 | 5.30 | 27.32 | 32.62 | 46.00 | -13.38 | peak | | | |

RESULT: PASS

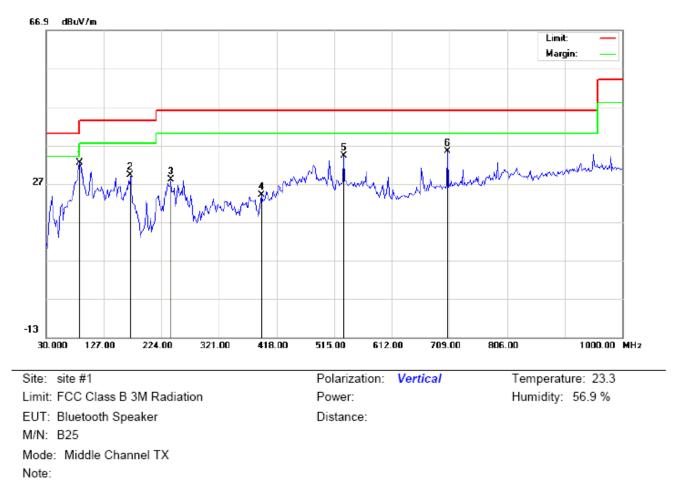
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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 | dBuV/m | dB | | cm | degree | |
| 1 | * | 97.9000 | 27.65 | 10.25 | 37.90 | 43.50 | -5.60 | peak | | | |
| 2 | | 262.8000 | 20.67 | 14.29 | 34.96 | 46.00 | -11.04 | peak | | | |
| 3 | | 476.2000 | 14.05 | 20.87 | 34.92 | 46.00 | -11.08 | peak | | | |
| 4 | | 516.6167 | 14.86 | 21.58 | 36.44 | 46.00 | -9.56 | peak | | | |
| 5 | | 675.0500 | 8.10 | 24.52 | 32.62 | 46.00 | -13.38 | peak | | | |
| 6 | | 797.9167 | 5.22 | 27.29 | 32.51 | 46.00 | -13.49 | peak | | | |



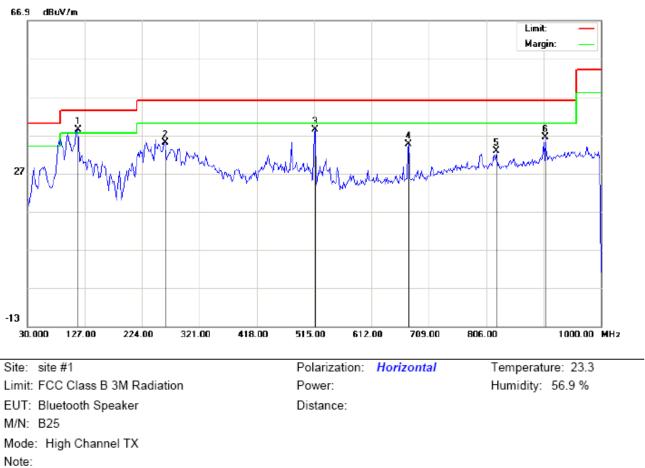
RADIATED EMISSION TEST- (30MHZ-1GHZ)- MIDDLE CHANNEL -VERTICAL

| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| | - | MHz | dBu∀ | dB/m | dBuV/m | dBuV/m | dB | | cm | degree | |
| 1 | * | 86.5832 | 28.33 | 4.16 | 32.49 | 40.00 | -7.51 | peak | | | |
| 2 | | 172.2666 | 14.63 | 14.56 | 29.19 | 43.50 | -14.31 | peak | | | |
| 3 | | 240.1667 | 15.08 | 12.94 | 28.02 | 46.00 | -17.98 | peak | | | |
| 4 | | 392.1333 | 4.92 | 19.02 | 23.94 | 46.00 | -22.06 | peak | | | |
| 5 | | 531.1667 | 12.20 | 21.97 | 34.17 | 46.00 | -11.83 | peak | | | |
| 6 | | 705.7667 | 10.11 | 25.36 | 35.47 | 46.00 | -10.53 | peak | | | |

RESULT: PASS

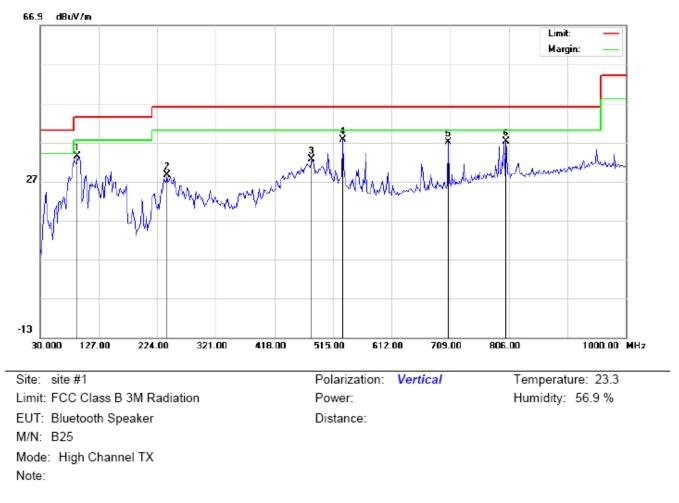
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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



| RADIATED EMISSION TE | EST- (30MHZ-1GHZ)-HIG | H CHANNEL-HORIZONTAL |
|----------------------|-----------------------|----------------------|
|----------------------|-----------------------|----------------------|

| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|--------|---------|
| | • | MHz | dBu∨ | dB/m | dBuV/m | dBu∀/m | dB | | cm | degree | |
| 1 | * | 115.6833 | 26.83 | 11.56 | 38.39 | 43.50 | -5.11 | peak | | | |
| 2 | | 262.8000 | 20.67 | 14.29 | 34.96 | 46.00 | -11.04 | peak | | | |
| 3 | | 516.6167 | 16.86 | 21.58 | 38.44 | 46.00 | -7.56 | peak | | | |
| 4 | | 675.0500 | 10.10 | 24.52 | 34.62 | 46.00 | -11.38 | peak | | | |
| 5 | | 823.7833 | 5.46 | 27.32 | 32.78 | 46.00 | -13.22 | peak | | | |
| 6 | | 906.2333 | 7.67 | 28.78 | 36.45 | 46.00 | -9.55 | peak | | | |



RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL -VERTICAL

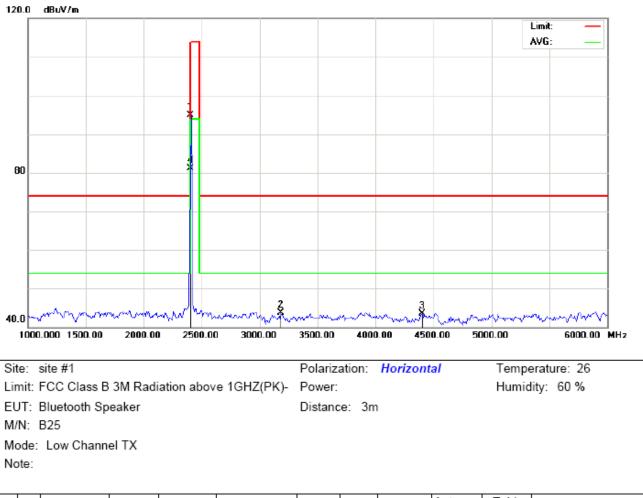
| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| | - | MHz | dBu∀ | dB/m | dBu\//m | dBuV/m | dB | | cm | degree | |
| 1 | | 91.4333 | 29.22 | 4.16 | 33.38 | 43.50 | -10.12 | peak | | | |
| 2 | | 240.1667 | 15.58 | 12.94 | 28.52 | 46.00 | -17.48 | peak | | | |
| 3 | | 479.4333 | 11.65 | 20.91 | 32.56 | 46.00 | -13.44 | peak | | | |
| 4 | * | 531.1667 | 15.70 | 21.97 | 37.67 | 46.00 | -8.33 | peak | | | |
| 5 | | 705.7667 | 11.61 | 25.36 | 36.97 | 46.00 | -9.03 | peak | | | |
| 6 | | 801.1500 | 9.80 | 27.32 | 37.12 | 46.00 | -8.88 | peak | | | |

RESULT: PASS

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

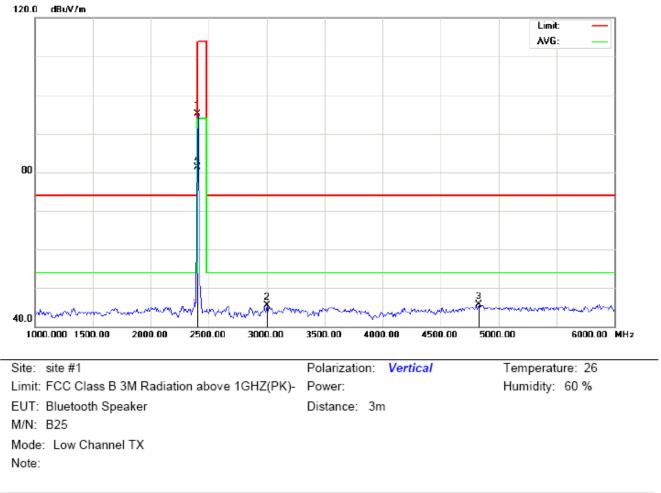
2. The "Factor" value can be calculated automatically by software of measurement system.

RADIATED EMISSION ABOVE 1GHZ



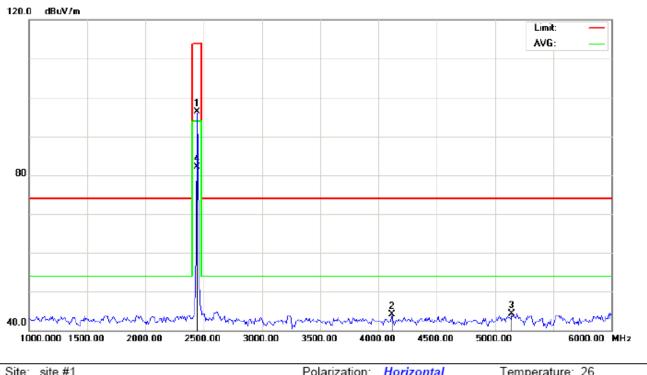
RADIATED EMISSION TEST- (ABOVE 1GHZ)-LOW CHANNEL-HORIZONTAL

| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| | • | MHz | dBu∀ | dB/m | dBu\//m | dBuV/m | dB | | cm | degree | |
| 1 | | 2402.000 | 104.66 | -9.68 | 94.98 | 114.00 | -19.02 | peak | | | |
| 2 | | 3183.333 | 51.97 | -8.19 | 43.78 | 74.00 | -30.22 | peak | | | |
| 3 | | 4400.000 | 46.97 | -3.45 | 43.52 | 74.00 | -30.48 | peak | | | |
| 4 | * | 2402.000 | 90.87 | -9.68 | 81.19 | 94.00 | -12.81 | AVG | 100 | 331 | |



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 | dBuV/m | dBuV/m | dB | | cm | degree | |
| 1 | | 2402.000 | 104.70 | -9.68 | 95.02 | 114.00 | -18.98 | peak | | | |
| 2 | | 3000.000 | 53.91 | -8.36 | 45.55 | 74.00 | -28.45 | peak | | | |
| 3 | | 4833.333 | 47.95 | -2.24 | 45.71 | 74.00 | -28.29 | peak | | | |
| 4 | * | 2402.000 | 91.01 | -9.68 | 81.33 | 94.00 | -12.67 | AVG | 100 | 144 | |



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

 Site:
 site #1
 Polarization:
 Horizontal
 Temperature:
 26

 Limit:
 FCC Class B 3M Radiation above 1GHZ(PK) Power:
 Humidity:
 60 %

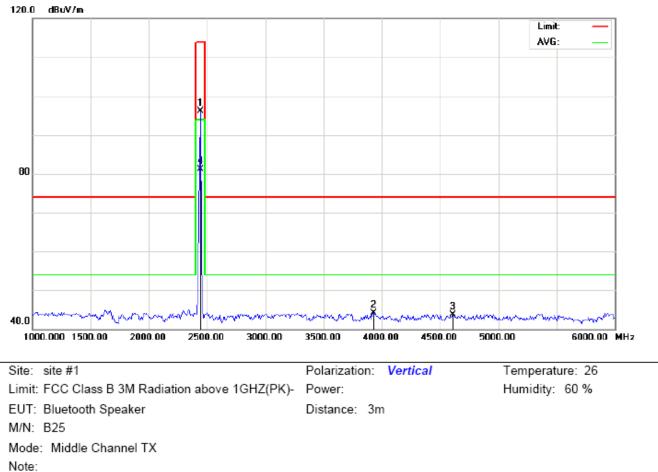
 EUT:
 Bluetooth Speaker
 Distance:
 3m

 M/N:
 B25

 Mode:
 Middle Channel TX

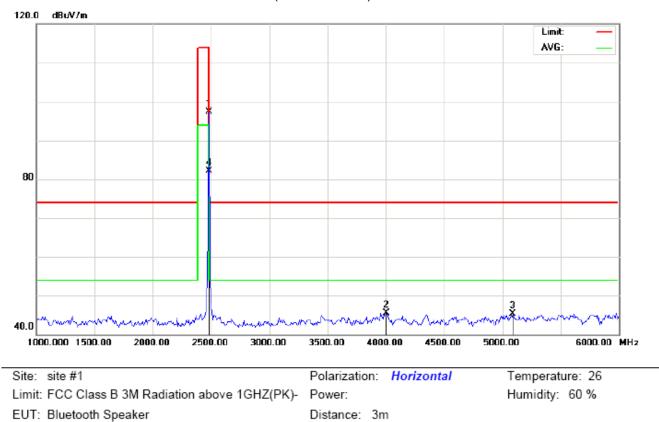
 Note:

| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| | • | MHz | dBu∀ | dB/m | dBu\//m | dBuV/m | dB | | cm | degree | |
| 1 | | 2441.000 | 105.84 | -9.63 | 96.21 | 114.00 | -17.79 | peak | | | |
| 2 | | 4116.667 | 48.50 | -4.41 | 44.09 | 74.00 | -29.91 | peak | | | |
| 3 | | 5141.667 | 46.19 | -1.80 | 44.39 | 74.00 | -29.61 | peak | | | |
| 4 | * | 2441.000 | 91.70 | -9.63 | 82.07 | 94.00 | -11.93 | AVG | 100 | 329 | |



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 | dBuV/m | dBuV/m | dB | | cm | degree | |
| 1 | | 2441.000 | 105.80 | -9.63 | 96.17 | 114.00 | -17.83 | peak | | | |
| 2 | | 3933.333 | 49.39 | -5.22 | 44.17 | 74.00 | -29.83 | peak | | | |
| 3 | | 4608.333 | 46.61 | -2.83 | 43.78 | 74.00 | -30.22 | peak | | | |
| 4 | * | 2441.000 | 90.69 | -9.63 | 81.06 | 94.00 | -12.94 | AVG | 100 | 145 | |

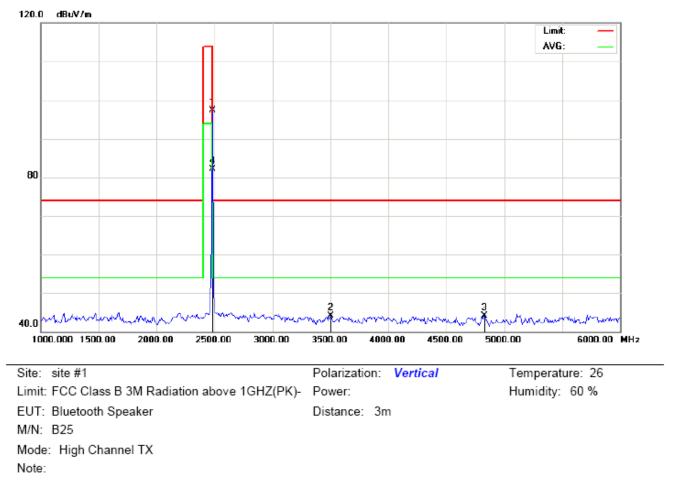


RADIATED EMISSION TEST- (ABOVE 1GHZ)-HIGH CHANNEL-HORIZONTAL

M/N: B25

Mode: High Channel TX Note:

| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|--------|---------|
| | - | MHz | dBu∀ | dB/m | dBu∀/m | dBuV/m | dB | | cm | degree | |
| 1 | | 2480.000 | 106.83 | -9.59 | 97.24 | 114.00 | -16.76 | peak | | | |
| 2 | | 4000.000 | 50.34 | -4.81 | 45.53 | 74.00 | -28.47 | peak | | | |
| 3 | | 5091.667 | 47.12 | -1.80 | 45.32 | 74.00 | -28.68 | peak | | | |
| 4 | * | 2480.000 | 91.70 | -9.59 | 82.11 | 94.00 | -11.89 | AVG | 100 | 227 | |



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 | dBuV/m | dB | | cm | degree | |
| 1 | | 2480.000 | 106.90 | -9.59 | 97.31 | 114.00 | -16.69 | peak | | | |
| 2 | | 3500.000 | 51.97 | -7.89 | 44.08 | 74.00 | -29.92 | peak | | | |
| 3 | | 4833.333 | 46.44 | -2.24 | 44.20 | 74.00 | -29.80 | peak | | | |
| 4 | * | 2480.000 | 91.72 | -9.59 | 82.13 | 94.00 | -11.87 | AVG | 100 | 139 | |

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.

Field strength of the fundamental signal

Peak value

| Frequency | Reading Level | Factor | Measurement | Limit | Over | Antenna |
|-----------|------------------|--------|-------------|----------|--------|--------------|
| (MHz) | (dBuv) | (dB/m) | (dBuv/m) | (dBuv/m) | (dB) | Polarization |
| 2402 | 104.66 | -9.68 | 94.98 | 114 | -19.02 | Horizontal |
| 2402 | 104.70 | -9.68 | 95.02 | 114 | -18.98 | Vertical |
| 2441 | 105.84 | -9.63 | 96.21 | 114 | -17.79 | Horizontal |
| 2441 | 105.80 | -9.63 | 96.17 | 114 | -17.83 | Vertical |
| 2480 | 106.83 | -9.59 | 97.24 | 114 | -16.76 | Horizontal |
| 2480 | 106.90 | -9.59 | 97.31 | 114 | -16.69 | Vertical |

Average value

| Frequency | Reading Level | Factor | Measurement | Limit | Over | Antenna |
|-----------|------------------|--------|-------------|----------|--------|--------------|
| (MHz) | (dBuv) | (dB/m) | (dBuv/m) | (dBuv/m) | (dB) | Polarization |
| 2402 | 90.87 | -9.68 | 81.19 | 94 | -12.81 | Horizontal |
| 2402 | 91.01 | -9.68 | 81.33 | 94 | -12.67 | Vertical |
| 2441 | 91.70 | -9.63 | 82.07 | 94 | -11.93 | Horizontal |
| 2441 | 90.69 | -9.63 | 81.06 | 94 | -12.94 | Vertical |
| 2480 | 91.70 | -9.59 | 82.11 | 94 | -11.89 | Horizontal |
| 2480 | 91.72 | -9.59 | 82.13 | 94 | -11.87 | Vertical |

9. BAND EDGE EMISSION

9.1. 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.

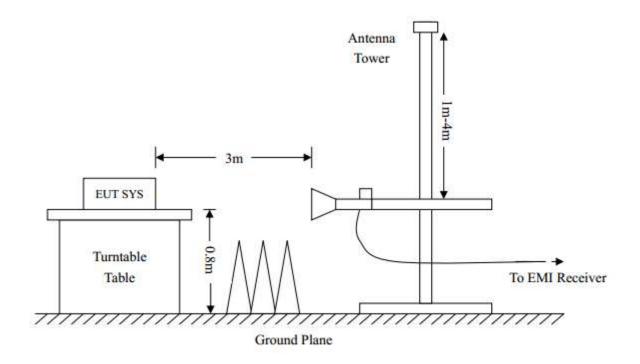
2Max hold the trace of the setp 1, and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.

3Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission: (a) PEAK: RBW=VBW=1.5MHz / Sweep=AUTO

(b) AVERAGE: RBW=1.5MHz ; VBW=1/on time(1KHz) / Sweep=AUTO

9.2 TEST SETUP

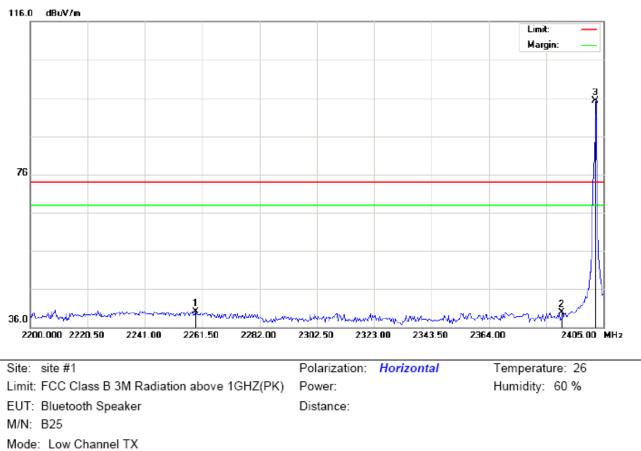
RADIATED EMISSION TEST SETUP



9.3 RADIATED TEST RESULT

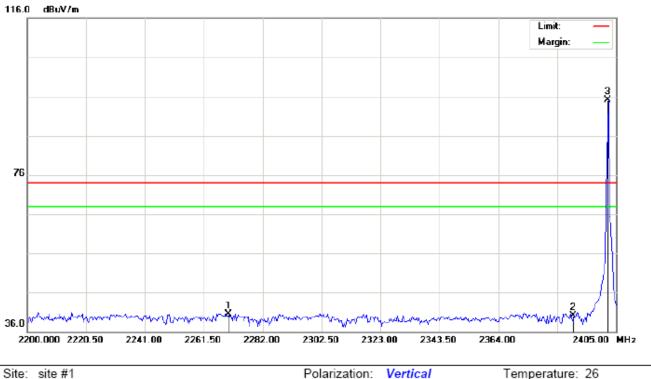
(Worst modulation: GFSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



| N | - | t_{c} | · - | |
|-----|---|---------|-----|--|
| 1.1 | U | ue | ۶., | |

| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| | • | MHz | dBu∨ | dB/m | dBuV/m | dBuV/m | dB | | cm | degree | |
| 1 | | 2259.108 | 29.86 | 10.16 | 40.02 | 74.00 | -33.98 | peak | | | |
| 2 | | 2390.000 | 29.62 | 10.31 | 39.93 | 74.00 | -34.07 | peak | | | |
| 3 | * | 2402.000 | 84.89 | 10.32 | 95.21 | 74.00 | 21.21 | peak | | | |



TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical

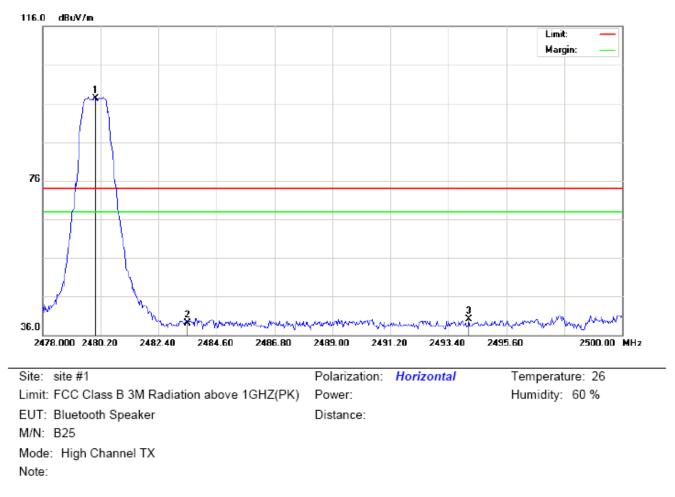
 Site:
 site #1
 Polarization:
 Vertical
 Temperature:
 26

 Limit:
 FCC Class B 3M Radiation above 1GHZ(PK)
 Power:
 Humidity:
 60 %

 EUT:
 Bluetooth Speaker
 Distance:
 M/N:
 B25

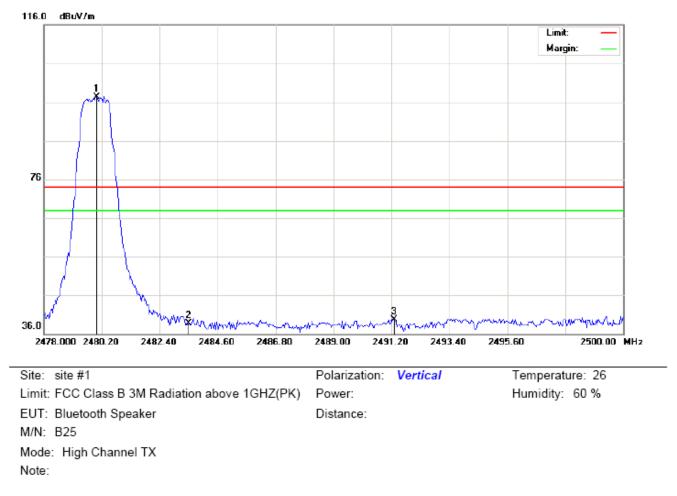
 Mode:
 Low Channel TX
 Note:
 Vertical
 Vertical

| 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 | | 2270.042 | 30.41 | 10.18 | 40.59 | 74.00 | -33.41 | peak | | | |
| 2 | | 2390.000 | 29.85 | 10.31 | 40.16 | 74.00 | -33.84 | peak | | | |
| 3 | * | 2402.000 | 84.76 | 10.32 | 95.08 | 74.00 | 21.08 | peak | | | |



TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal

| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| | | MHz | dBu∨ | dB/m | dBuV/m | dBuV/m | dB | | cm | degree | |
| 1 | * | 2480.000 | 86.96 | 10.41 | 97.37 | 74.00 | 23.37 | peak | | | |
| 2 | | 2483.500 | 28.75 | 10.41 | 39.16 | 74.00 | -34.84 | peak | | | |
| 3 | | 2494.170 | 29.63 | 10.42 | 40.05 | 74.00 | -33.95 | 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 | dBuV/m | dB | | cm | degree | |
| 1 | * | 2480.000 | 86.85 | 10.41 | 97.26 | 74.00 | 23.26 | peak | | | |
| 2 | | 2483.500 | 28.37 | 10.41 | 38.78 | 74.00 | -35.22 | peak | | | |
| 3 | | 2491.310 | 29.38 | 10.42 | 39.80 | 74.00 | -34.20 | peak | | | |

RESULT: PASS

Note: The other modes radiation emission have enough 20dB margin.

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.

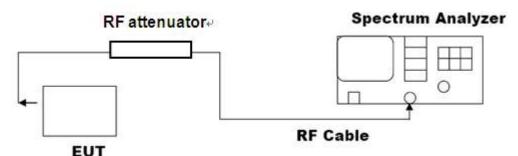
10. 20DB BANDWIDTH

10.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. 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
- 4. Set SPA Trace 1 Max hold, then View.

10.2. TEST SET-UP

(BLOCK DIAGRAM OF CONFIGURATION)



Note: The EUT has been used temporary antenna connector for testing.

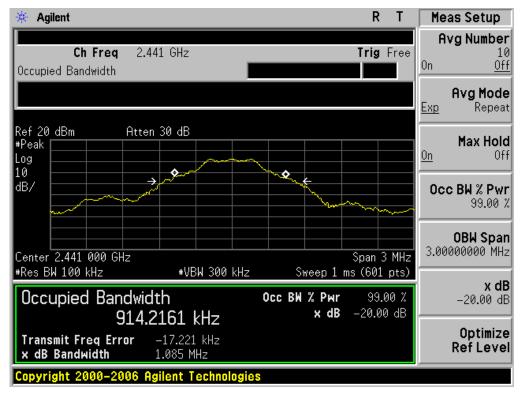
10.3. LIMITS AND MEASUREMENT RESULTS

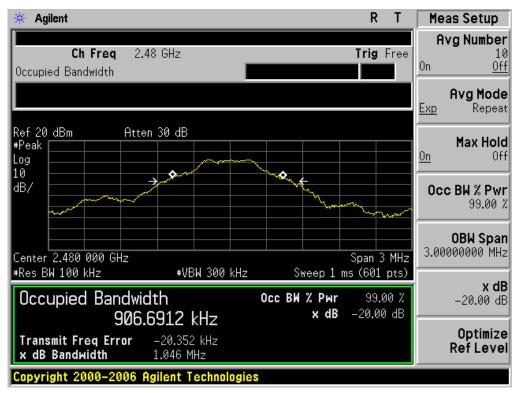
| BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESUL | | | | | | | | |
|--|--------------------|----------|------|--|--|--|--|--|
| Applicable Limite | Measurement Result | | | | | | | |
| Applicable Limits | Test Da | Criteria | | | | | | |
| | Low Channel | 1.092 | PASS | | | | | |
| N/A | Middle Channel | 1.085 | PASS | | | | | |
| | High Channel | 1.046 | PASS | | | | | |



TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



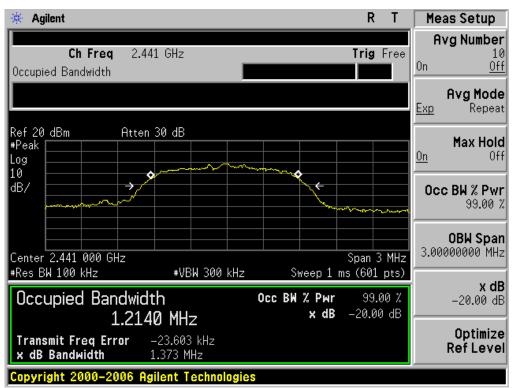


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

| BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESUL | | | | | | | |
|--|--------------------|----------|------|--|--|--|--|
| Applicable Limite | Measurement Result | | | | | | |
| Applicable Limits | Test Da | Criteria | | | | | |
| | Low Channel | 1.350 | PASS | | | | |
| N/A | Middle Channel | 1.373 | PASS | | | | |
| | High Channel | 1.365 | PASS | | | | |

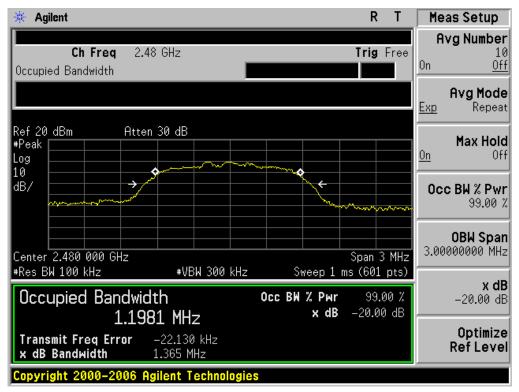
| 🔆 Agilent | | | RT | Meas Setup |
|--|-------------|----------------------------------|---------------------------------|--|
| Ch Freq 2.402 GHz Occupied Bandwidth | | | Trig Free | Avg Number 10 On <u>Off</u> |
| | | | | Avg Mode Exp Repeat |
| Ref 20 dBm Atten 30 dB #Peak Log 10 | | | | Max Hold On Off |
| dB/ | | * + | ••••••• | Occ BW % Pwr 99.00 % |
| Center 2.402 000 GHz #Res BW 100 kHz #VE | W 300 kHz | | Span 3 MHz | 0BW Span 3.00000000 MHz |
| Occupied Bandwidth 1.2021 MH | 00 | Sweep 1 m: c BW % Pwr x dB | 99.00 % 99.00 % -20.00 dB | x dB -20.00 dB |
| Transmit Freq Error-7.752x dB Bandwidth1.350 M | kHz Hz | | | Optimize Ref Level |
| Copyright 2000–2006 Agilent T | echnologies | | | |

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

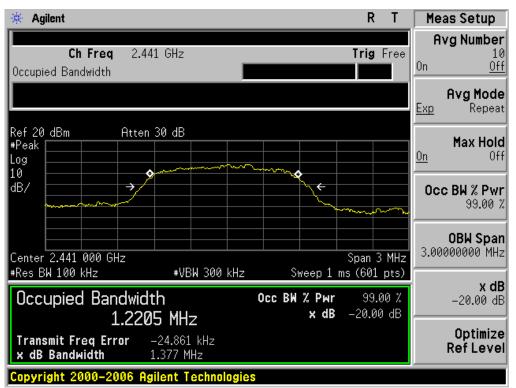
TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



| BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESUL | | | | | | | |
|--|--------------------|----------|------|--|--|--|--|
| Annlieghte Limite | Measurement Result | | | | | | |
| Applicable Limits | Test Da | Criteria | | | | | |
| | Low Channel | 1.364 | PASS | | | | |
| N/A | Middle Channel | 1.377 | PASS | | | | |
| | High Channel | 1.362 | PASS | | | | |

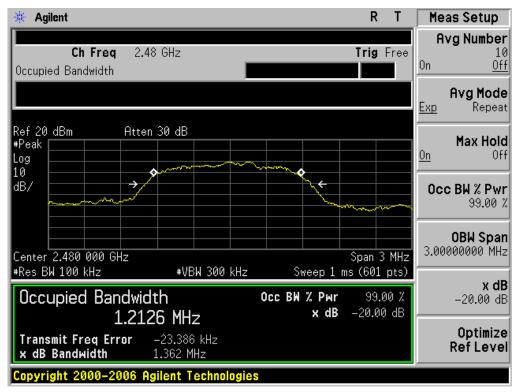
| 🔆 Agilent | | | RT | Meas Setup |
|---|-----------------|----|-------------------------------|--|
| Ch Freq 2.402 G Occupied Bandwidth | iz | Tr | ig Free | Avg Number 10 On <u>Off</u> |
| | | | | Avg Mode Exp Repeat |
| Ref 20 dBm Atten 30 #Peak Log 10 | | | | Max Hold On Off |
| | | | | Occ BW % Pwr 99.00 % |
| Center 2.402 000 GHz | | | in 3 MHz | 0BW Span 3.00000000 MHz |
| *Res BW 100 kHz Occupied Bandwidth 1.2205 l | | | 01 pts) 99.00 % 0.00 dB | x dB –20.00 dB |
| Transmit Freq Error -9.1 | 09 kHz 4 MHz | | | Optimize Ref Level |
| Copyright 2000-2006 Agilen | t Technologies | | | |

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



11. FCC LINE CONDUCTED EMISSION TEST

11.1. LIMITS OF LINE CONDUCTED EMISSION TEST

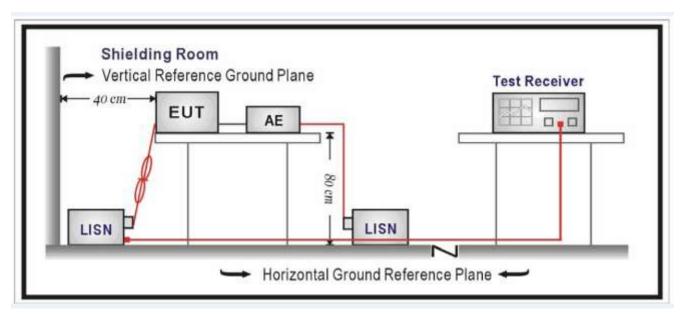
| Frequency | Maximum RF Line Voltage | | | | | | |
|---------------|-------------------------|----------------|--|--|--|--|--|
| Frequency | Q.P.(dBuV) | Average(dBuV) | | | | | |
| 150kHz~500kHz | 66-56 | 56-46 | | | | | |
| 500kHz~5MHz | 56 | 46 | | | | | |
| 5MHz~30MHz | 60 | 50 | | | | | |

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.

11.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



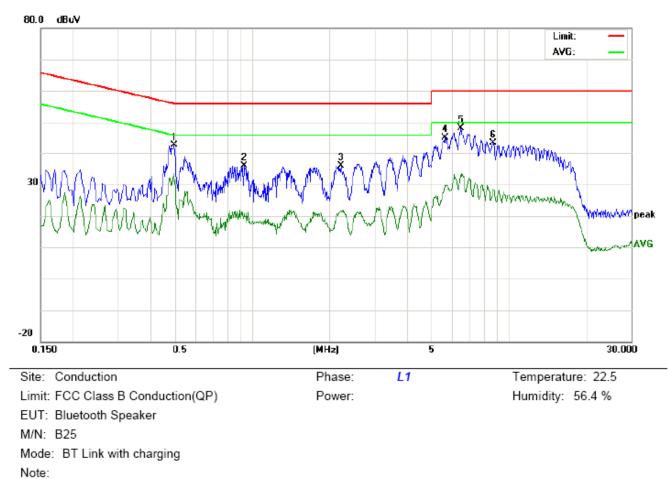
11.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 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 C63.4 (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 C63.4.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC charging voltage by PC or by adapter 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.

11.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

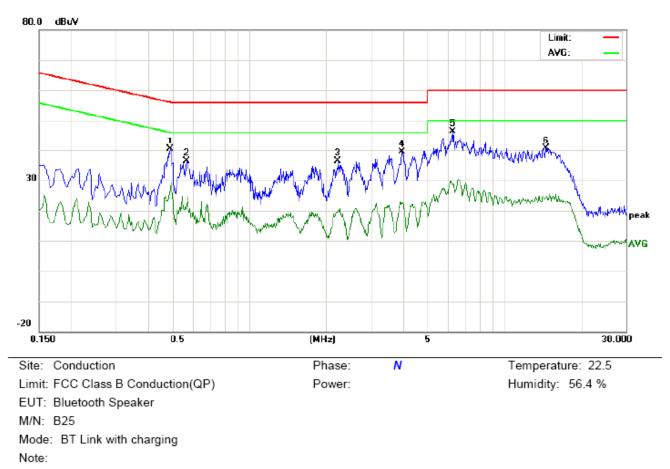
- EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used 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.



11.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST (by adapter)

| 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 | 0.4980 | 32.34 | | 21.71 | 10.40 | 42.74 | | 32.11 | 56.03 | 46.03 | -13.29 | -13.92 | Р | |
| 2 | 0.9300 | 25.47 | | 10.18 | 10.40 | 35.87 | | 20.58 | 56.00 | 46.00 | -20.13 | -25.42 | Р | |
| 3 | 2.2340 | 25.53 | | 10.97 | 10.32 | 35.85 | | 21.29 | 56.00 | 46.00 | -20.15 | -24.71 | Ρ | |
| 4 | 5.6380 | 34.98 | | 19.28 | 10.26 | 45.24 | | 29.54 | 60.00 | 50.00 | -14.76 | -20.46 | Ρ | |
| 5 | 6.5180 | 37.72 | | 22.58 | 10.30 | 48.02 | | 32.88 | 60.00 | 50.00 | -11.98 | -17.12 | Р | |
| 6 | 8.7260 | 33.15 | | 18.40 | 10.28 | 43.43 | | 28.68 | 60.00 | 50.00 | -16.57 | -21.32 | Р | |

Line Conducted Emission Test Line 1-L



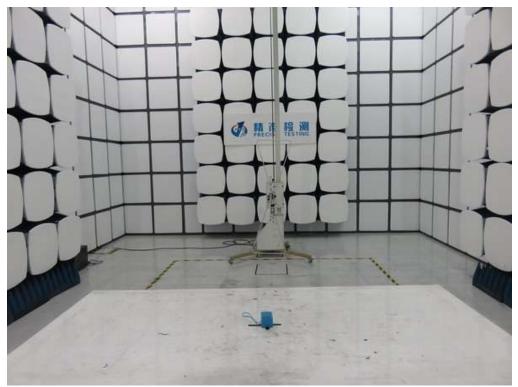
Line Conducted Emission Test Line 2-N

Reading_Level Correct Measurement Limit Margin Freq. (dBuV) Factor (dBuV) (dBuV) (dB) No. P/F Comment (MHz) Peak QP AVG dB Peak QP AVG QP AVG QP AVG 1 0.4900 30.09 17.13 10.39 40.48 27.52 56.17 46.17 -15.69 -18.65 Ρ 2 0.5700 26.14 11.94 10.34 36.48 22.28 56.00 46.00 -19.52 -23.72 Ρ 3 2.2340 26.09 9.43 10.32 36.41 19.75 56.00 46.00 -19.59 -26.25 Ρ 22.41 Ρ 4 3.9780 28.96 11.98 10.43 39.39 56.00 46.00 -16.61 23.59 Ρ 5 6.2860 35.98 18.32 10.29 46.27 28.61 60.00 50.00 -13.73 -21.39 6 40.55 24.10 50.00 25.90 Ρ 14.5180 30.43 13.98 10.12 60.00 -19.45

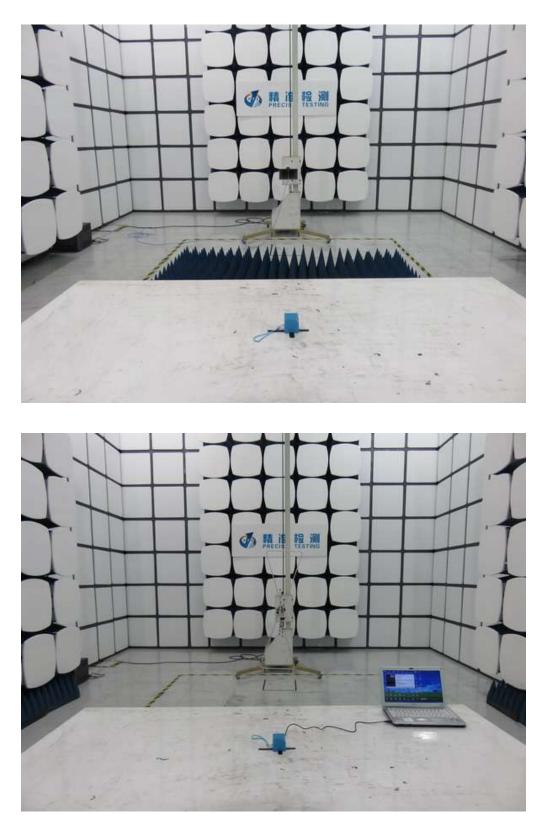
APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC LINE CONDUCTED EMISSION TEST SETUP



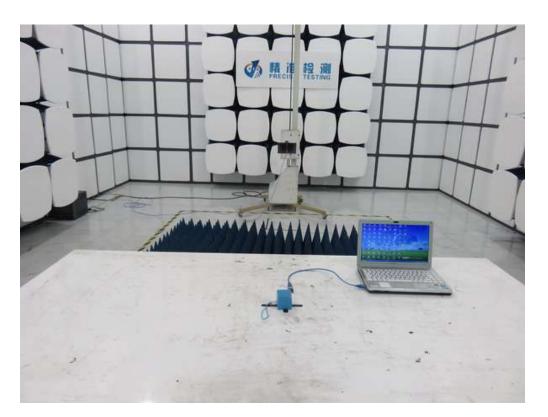
FCC RADIATED EMISSION TEST SETUP

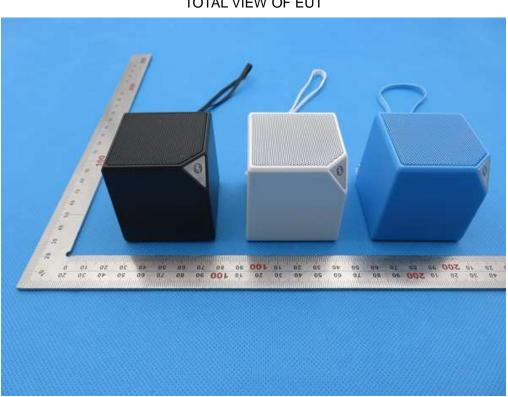


Report No.: AGC00924151204FE03 Page 46 of 54



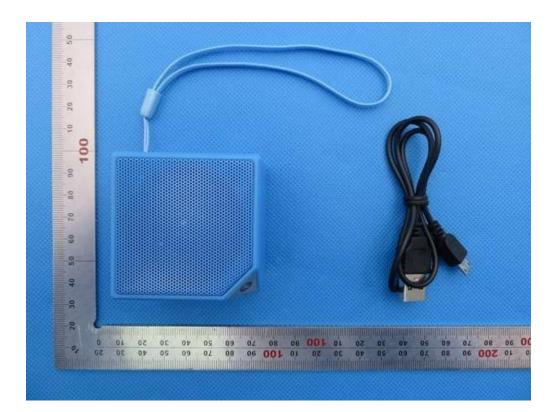
Report No.: AGC00924151204FE03 Page 47 of 54

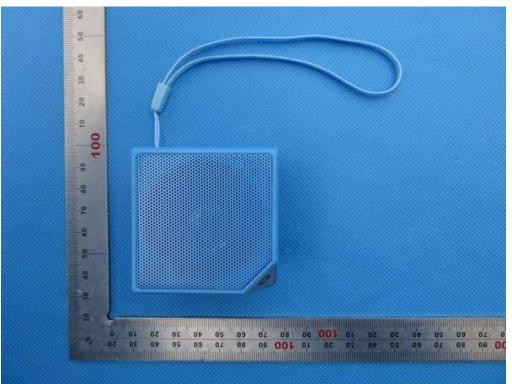






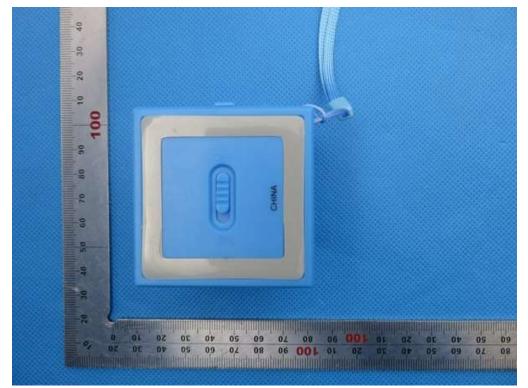
TOTAL VIEW OF EUT





TOP VIEW OF EUT

BOTTOM VIEW OF EUT

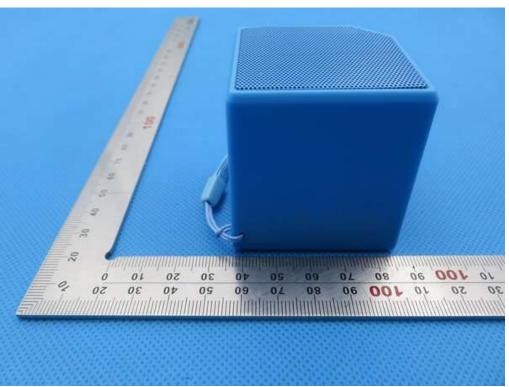




FRONT VIEW OF EUT

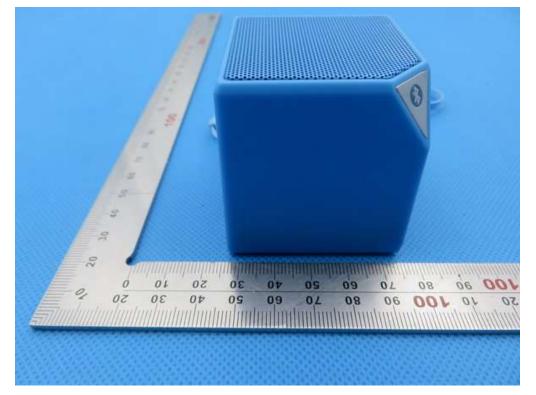
BACK VIEW OF EUT





LEFT VIEW OF EUT

RIGHT VIEW OF EUT

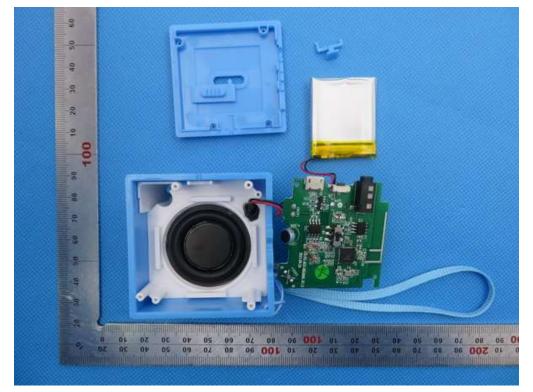


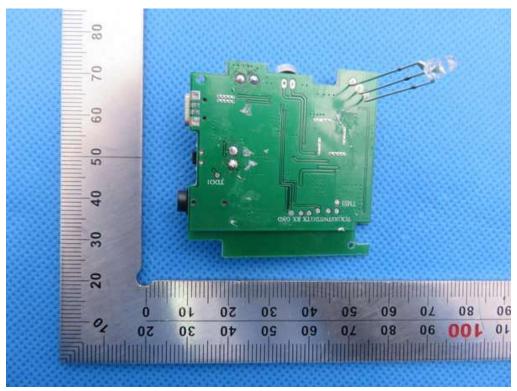
Report No.: AGC00924151204FE03 Page 52 of 54



VIEW OF EUT (PORT)

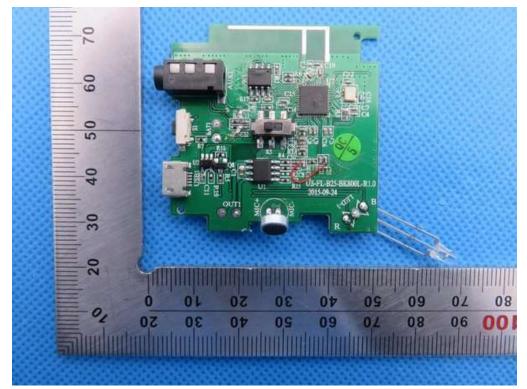
OPEN VIEW OF EUT

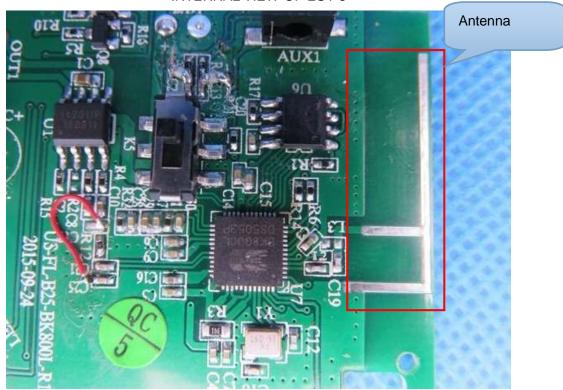




INTERNAL VIEW OF EUT-1

INTERNAL VIEW OF EUT-2





INTERNAL VIEW OF EUT-3

----END OF REPORT----