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# FCC Test Report

## Report No.: AGC01559180301FE03

| FCC ID                           | : 2AANZHY-1511                         |
|----------------------------------|--|
| APPLICATION PURPOSE              | : Original Equipment                   |
| PRODUCT DESIGNATION              | : Alloy PRO Wireless Earphones         |
| BRAND NAME                       | : N/A                                  |
| MODEL NAME                       | : HY-1511-ASST                         |
| CLIENT                           | : DGL Group LTD.                       |
| DATE OF ISSUE                    | : Mar. 14, 2018                        |
| STANDARD(S)<br>TEST PROCEDURE(S) | : FCC Part 15 Subpart C Section 15.249 |
| <b>REPORT VERSION</b>            | : V1.0                                 |
|                                  |  |

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|----------------------------|--|---------------------------|-------|-----------------|--|
| Report Version Revise Time |  | Issued Date Valid Version |       | Notes           |  |
| V1.0                       |  | Mar. 14, 2018             | Valid | Initial release |  |

## **Report Revise Record**

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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 08837  |
| Product Designation      | Alloy PRO Wireless Earphones   |
| Brand Name               | N/A State of the s |
| Test Model               | HY-1511-ASST   |
| Date of test             | Mar. 02, 2018 to Mar. 12, 2018   |
| Deviation                | None   |
| Condition of Test Sample | Normal   |
| Report Template          | AGCRT-US-BR/RF   |

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) 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. The test results of this report relate only to the tested sample identified in this report.

Tested By

Jonhan Wand

Jonhen Wang(Wang Yonghuan) Mar. 12, 2018

Reviewed By

Forvestoi

Forrest Lei(Lei Yonggang)

Mar. 14, 2018

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## 2. GENERAL INFORMATION

## 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

| 2.402 GHz to 2.480GHz                             |
|---|
| -0.45dBm(Max EIRP Power=Max radiation field-95.2) |
| V4.2  |
| BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK<br>BLE □GFSK    |
| 79  |
| V4.0  |
| V4.0  |
| PCB Antenna                                       |
| OdBi  |
| DC 3.7V by battery                                |
|   |

## 2.2. TABLE OF CARRIER FREQUENCYS

## **BR/EDR Channel List**

| Frequency Band | Channel Number           | Frequency |
|----------------|--------------------------|-----------|
| 2400~2483.5MHz | 0                        | 2402MHz   |
| The Barrows    | Hardenand 0 Handenal 0 4 | 2403MHz   |
|                | Maria Com                |           |
|                | 38                       | 2440 MHz  |
|                | 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  $\pm$ 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%.

- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

## 4. DESCRIPTION OF TEST MODES

| NO.                              | TEST MODE DESCRIPTION     |
|----------------------------------|---------------------------|
| The accommence                   | 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   |
| <b>G</b> 7                       | Low channel 8DPSK         |
| 8                                | Middle channel 8DPSK      |
| The second 9 @ The second second | High channel 8DPSK        |
| 10                               | BT Link with charging     |
| 11                               | BT Link                   |
|                                  |                           |

#### Note:

1. All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases.

2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

3. The EUT used fully-charged battery when tested.

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|  |                    | Software Setting               | 0 5 To 100 0 5 To 100 0 5   |
|--|--------------------|--------------------------------|---|
| 💑 AppoTech RF Control Kit V4.              | 2.17               |                                | ×   |
| IC Model CW6691x -                         |                    | Specification –<br>FIX RX mode | (1)check FIX_PX_24xx<br>(2)check Frequency to set Frequency number  |
| - COM Port Info<br>Port: COM3 Rate: 921600 | <u>S</u> end       | FIX TX mode                    | (1)uncheck FIX_RX_24xx<br>(2)check Frequency to set Frequency number<br>(3)check power to set TX signal amplitude<br>(4)Modulation Enable OFF                         |
| -RF Trim                                   | OK<br>Hopping: OFF | TX Modulation<br>mode          | (1)uncheck FIX_RX_24xx<br>(2)check Frequency to set Frequency number<br>(3)check power to set TX signal amplitude<br>(4)Modulation Enable ON<br>(5)select Packet Type |
|  | Nodulation: ON     | Hopping mode                   | (1)uncheck FIX_RX_24xx<br>(2)uncheck Frequency to enable Hopping ON and TX<br>Modulation OFF<br>(3)check power  |
| Test scenario 3 Transmitter test 101       | 0 pattern          | <u></u> 语言                     | (4)select Packet Type   |

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## **5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM**

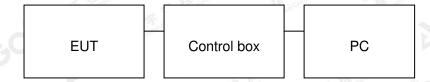
Configure 1: (Normal hopping)



PC or Adapter

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

## Configure 2: (Control continuous TX)



## **5.2. EQUIPMENT USED IN EUT SYSTEM**

| ltem | Equipment                       | Equipment Mfr/Brand |                 | Remark    |  |
|------|---------------------------------|---------------------|-----------------|-----------|--|
| Ŷ    | Alloy PRO Wireless<br>Earphones | DGL                 | HY-1511-ASST    | EUT       |  |
| 2    | Battery                         | Jin Yu Zhou         | 371029          | Accessory |  |
| 3    | PC                              | APPLE               | A1465           | A.E       |  |
| 4    | Control box                     | DOFLY               | N/A             | A.E       |  |
| 5    | Adapter                         | IPRO                | NTR-S01         | A.E       |  |
| 6    | USB Cable                       | N/A                 | 0.3m unshielded | Accessory |  |

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## **5.3. SUMMARY OF TEST RESULTS**

| FCC RULES             | DESCRIPTION OF TEST | RESULT    |
|-----------------------|---------------------|-----------|
| §15.249(a)<br>§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

| Test Site                        | Attestation of Global Compliance (Shenzhen) Co., Ltd   |  |  |
|----------------------------------|--|--|--|
| Location                         | 1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang,<br>Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of<br>Xixiang Inner Ring Road, Baoan District, Shenzhen 518012 |  |  |
| NVLAP Lab Code                   | 600153-0   |  |  |
| Designation Number               | CN5028   |  |  |
| Test Firm Registration<br>Number | 682566   |  |  |
| Description                      | Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0  |  |  |

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## 7. TEST METHOD

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

## 8. TEST EQUIPMENT LIST

## TEST EQUIPMENT OF CONDUCTED EMISSION TEST

| Equipment     | Manufacturer | Model   | S/N    | Cal. Date    | Cal. Due     |
|---------------|--------------|---------|--------|--------------|--------------|
| TEST RECEIVER | R&S          | ESPI    | 101206 | Jun.20, 2017 | Jun.19, 2018 |
| LISN          | R&S          | ESH2-Z5 | 100086 | Aug.21, 2017 | Aug.20, 2018 |

## TEST EQUIPMENT OF RADIATED EMISSION TEST

| Equipment                       | Manufacturer    | Model       | S/N        | Cal. Date     | Cal. Due      |  |
|---------------------------------|-----------------|-------------|------------|---------------|---------------|--|
| TEST RECEIVER                   | R&S             | ESCI        | 10096      | Jun.20, 2017  | Jun.19, 2018  |  |
| EXA Signal<br>Analyzer          | Aglient         | N9010A      | MY53470504 | Dec.08, 2017  | Dec.07, 2018  |  |
| Horn antenna                    | SCHWARZBECK     | BBHA 9170   | #768       | Sep.20, 2017  | Sep.19, 2018  |  |
| preamplifier                    | ChengYi         | EMC184045SE | 980508     | Sep.15, 2017  | Sep.14, 2018  |  |
| Double-Ridged<br>Waveguide Horn | ETS LINDGREN    | 3117        | 00034609   | May 18, 2017  | May 17, 2019  |  |
| Broadband<br>Preamplifier       | SCHWARZBECK     | BBV 9718    | 9718-205   | Jun.20, 2017  | Jun.19, 2018  |  |
| ANTENNA                         | SCHWARZBECK     | VULB9168    | D69250     | Sep.28, 2017  | Sep.27, 2018  |  |
| Loop Antenna                    | A.H.Systems,Inc | SAS-562B    | <b>C</b> - | Mar. 01, 2018 | Feb. 28, 2020 |  |

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## 9. RADIATED EMISSION

## 9.1. TEST LIMIT

Standard FCC15.249

| Fundamental    | Field Strength of Fundamental | Field Strength of Harmonics |
|----------------|-------------------------------|-----------------------------|
| Frequency      | (millivolts/meter)            | (microvolts/meter)          |
| 900-928MHz     | 50                            | 500                         |
| 2400-2483.5MHz | 50 6 6                        | 500                         |
| 5725-5875MHz   | 50                            | 500                         |
| 24.0-24.25GHz  | 250                           | 2500                        |

## Standard FCC 15.209

| Frequency     | Distance | 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 6 8 9                         | E and a contract Cont |  |  |  |  |  |
| 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<br>(Average) | (Peak) 54.0 dB(µV)/m   |  |  |  |  |  |

Remark: (1) Emission level dB $\mu$  V = 20 log Emission level  $\mu$  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

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

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

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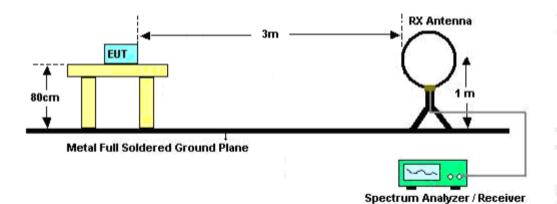


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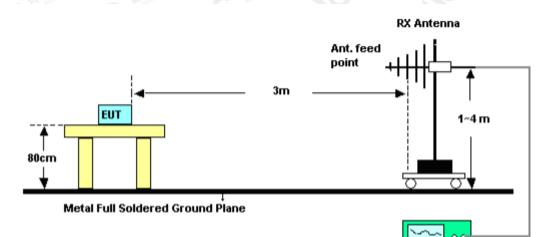
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## 9.3. TEST SETUP

RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



## RADIATED EMISSION TEST SETUP 30MHz-1000MHz



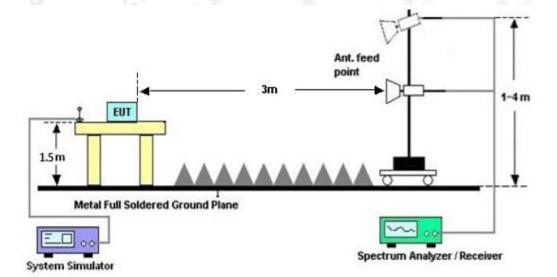
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Spectrum Analyzer / Receiver



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RADIATED EMISSION TEST SETUP ABOVE 1000MHz

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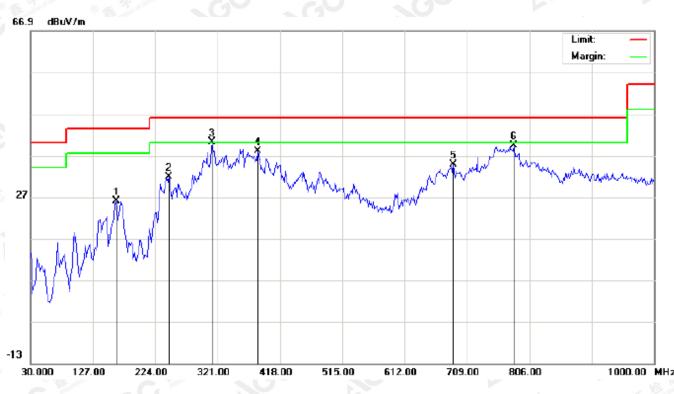
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## 9.4. TEST RESULT (Worst modulation: GFSK) FOR BR/EDR

## **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



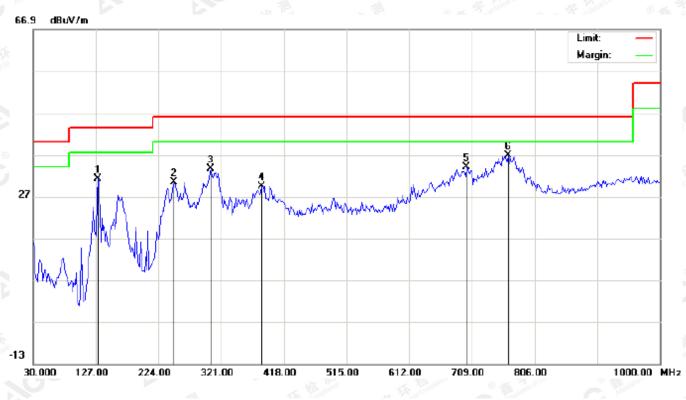
| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
|     | •  | MHz      | dBu∨    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm                | degree          |         |
| 1   |    | 164.1833 | 15.62   | 10.48  | 26.10       | 43.50  | -17.40 | peak     |                   |                 |         |
| 2   |    | 245.0167 | 24.43   | 7.41   | 31.84       | 46.00  | -14.16 | peak     |                   |                 |         |
| 3   | *  | 312.9167 | 23.97   | 16.27  | 40.24       | 46.00  | -5.76  | peak     |                   |                 |         |
| 4   |    | 384.0500 | 19.07   | 18.96  | 38.03       | 46.00  | -7.97  | peak     |                   |                 |         |
| 5   |    | 687.9833 | 9.86    | 24.89  | 34.75       | 46.00  | -11.25 | peak     |                   |                 |         |
| 6   |    | 781.7500 | 12.28   | 27.07  | 39.35       | 46.00  | -6.65  | peak     |                   |                 |         |

RESULT: PASS

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

|     | No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment |
|-----|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| 13  |     | -  | MHz      | dBu∨    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm                | degree          |         |
| Slo | 1   |    | 130.2333 | 20.09   | 11.13  | 31.22       | 43.50  | -12.28 | peak     |                   |                 |         |
|     | 2   |    | 248.2500 | 16.74   | 13.73  | 30.47       | 46.00  | -15.53 | peak     |                   |                 |         |
|     | 3   |    | 304.8333 | 17.86   | 15.73  | 33.59       | 46.00  | -12.41 | peak     |                   |                 |         |
|     | 4   |    | 384.0500 | 10.47   | 18.96  | 29.43       | 46.00  | -16.57 | peak     |                   |                 |         |
| Ī   | 5   |    | 700.9167 | 8.73    | 25.22  | 33.95       | 46.00  | -12.05 | peak     |                   |                 |         |
| 1   | 6   | *  | 765.5833 | 10.02   | 26.85  | 36.87       | 46.00  | -9.13  | 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

|     | No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment |
|-----|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| 3   |     | •  | MHz      | dBu∨    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm                | degree          |         |
| 200 | 1   |    | 170.6500 | 14.29   | 10.72  | 25.01       | 43.50  | -18.49 | peak     |                   |                 |         |
|     | 2   |    | 235.3167 | 23.60   | 8.40   | 32.00       | 46.00  | -14.00 | peak     |                   |                 |         |
|     | 3   | *  | 312.9167 | 23.45   | 16.27  | 39.72       | 46.00  | -6.28  | peak     |                   |                 |         |
|     | 4   |    | 385.6667 | 18.98   | 18.98  | 37.96       | 46.00  | -8.04  | peak     |                   |                 |         |
|     | 5   |    | 666.9666 | 11.00   | 24.31  | 35.31       | 46.00  | -10.69 | peak     |                   |                 |         |
| 1   | 6   |    | 755.8833 | 12.57   | 26.71  | 39.28       | 46.00  | -6.72  | peak     |                   |                 |         |

RESULT: PASS

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

|       | No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment |
|-------|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| S. UN |     | •  | MHz      | dBu∨    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm                | degree          |         |
| 5°    | 1   |    | 131.8500 | 16.78   | 11.80  | 28.58       | 43.50  | -14.92 | peak     |                   |                 |         |
|       | 2   |    | 251.4833 | 16.59   | 13.94  | 30.53       | 46.00  | -15.47 | peak     |                   |                 |         |
|       | 3   |    | 304.8333 | 18.63   | 15.73  | 34.36       | 46.00  | -11.64 | peak     |                   |                 |         |
|       | 4   |    | 385.6667 | 10.78   | 18.98  | 29.76       | 46.00  | -16.24 | peak     |                   |                 |         |
|       | 5   |    | 686.3667 | 9.30    | 24.82  | 34.12       | 46.00  | -11.88 | peak     |                   |                 |         |
| 1     | 6   | *  | 757.5000 | 10.04   | 26.73  | 36.77       | 46.00  | -9.23  | peak     |                   |                 |         |

## **RESULT: PASS**

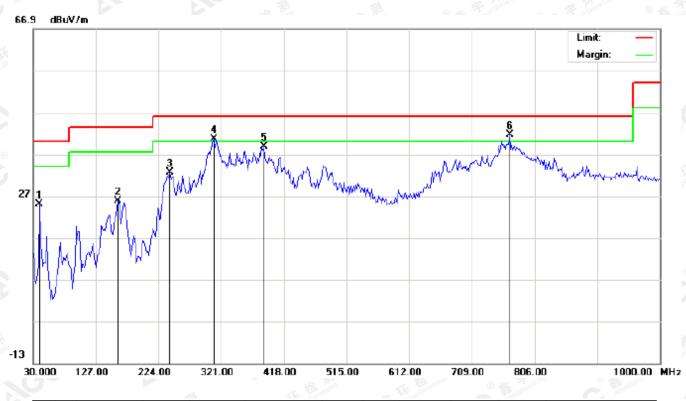
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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

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

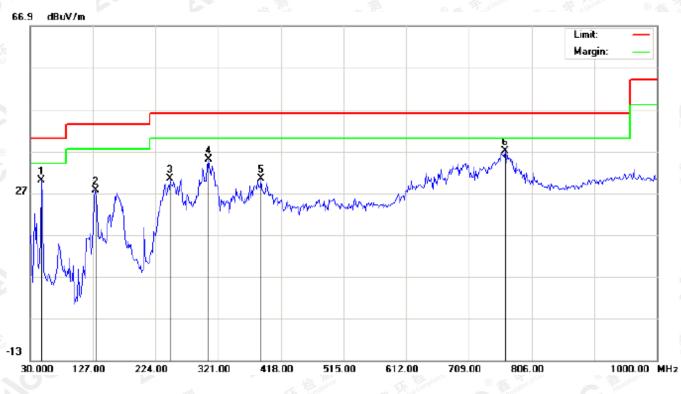
| No | . Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment |
|----|------|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
|    | •    | MHz      | dBu∨    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm                | degree          |         |
| 1  |      | 39.7000  | 13.56   | 11.51  | 25.07       | 40.00  | -14.93 | peak     |                   |                 |         |
| 2  |      | 160.9500 | 15.43   | 10.37  | 25.80       | 43.50  | -17.70 | peak     |                   |                 |         |
| 3  |      | 241.7833 | 24.82   | 7.74   | 32.56       | 46.00  | -13.44 | peak     |                   |                 |         |
| 4  | İ    | 309.6832 | 24.60   | 16.05  | 40.65       | 46.00  | -5.35  | peak     |                   |                 |         |
| 5  |      | 387.2833 | 19.90   | 18.99  | 38.89       | 46.00  | -7.11  | peak     |                   |                 |         |
| 6  | *    | 767.2000 | 14.76   | 26.87  | 41.63       | 46.00  | -4.37  | peak     |                   |                 |         |

RESULT: PASS

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| RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL -VERTIC/ |          |                   |  |  |
|--|----------|-------------------|--|--|
|  |          | D EMICCIÓN TECT   |  |  |
|  | RADIALED | D EIMIOSION LEST- |  |  |

| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height |        | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|--------|---------|
|     | •  | MHz      | dBu∀    | dB/m   | dBu∨/m      | dBuV/m | dB     |          | cm                | degree |         |
| 1   |    | 47.7833  | 21.62   | 8.39   | 30.01       | 40.00  | -9.99  | peak     |                   |        |         |
| 2   |    | 131.8500 | 15.77   | 11.80  | 27.57       | 43.50  | -15.93 | peak     |                   |        |         |
| 3   |    | 246.6333 | 16.82   | 13.57  | 30.39       | 46.00  | -15.61 | peak     |                   |        |         |
| 4   |    | 306.4500 | 19.19   | 15.84  | 35.03       | 46.00  | -10.97 | peak     |                   |        |         |
| 5   |    | 387.2833 | 11.41   | 18.99  | 30.40       | 46.00  | -15.60 | peak     |                   |        |         |
| 6   | *  | 765.5833 | 10.22   | 26.85  | 37.07       | 46.00  | -8.93  | 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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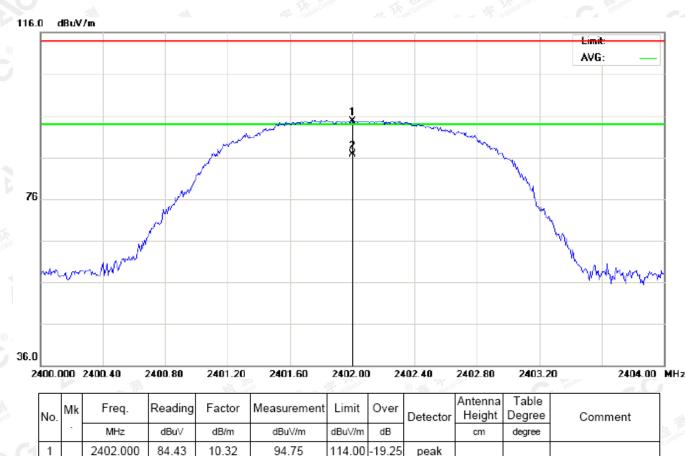


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## RADIATED EMISSION ABOVE 1GHz (Worst modulation: GFSK) FOR BR/EDR

#### For Fundamental

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



94.00

-7.35

AVG

**RESULT: PASS** 

2

2402.000

10.32

76.33

86.65

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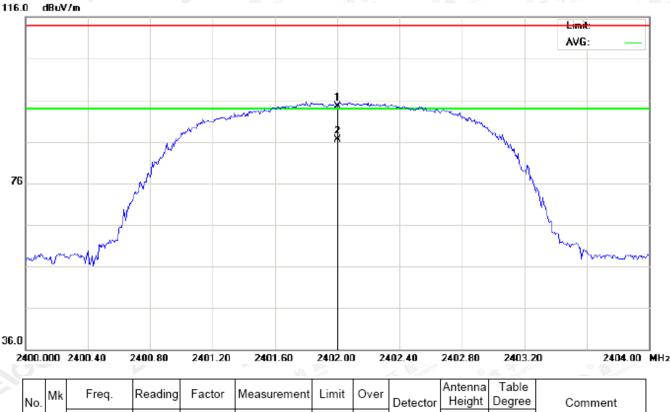


304

100



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

|   | No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment    |
|---|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|------------|
| 2 |     | -  | MHz      | dBu∨    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm                | degree          |            |
| ø | 1   |    | 2402.000 | 84.09   | 10.32  | 94.41       | 114.00 | -19.59 | peak     |                   |                 |            |
|   | 2   | *  | 2402.000 | 76.08   | 10.32  | 86.40       | 94.00  | -7.60  | AVG      | 100               | 157             |            |
|   |     |    |          |         |        | a.          |        |        | 557      | 0.025             |                 | 2017 - 112 |

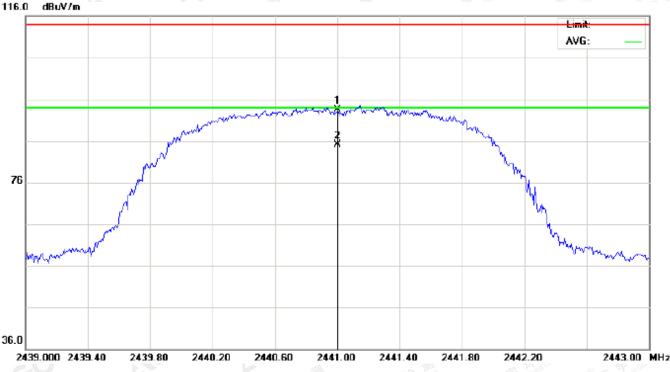
RESULT: PASS

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

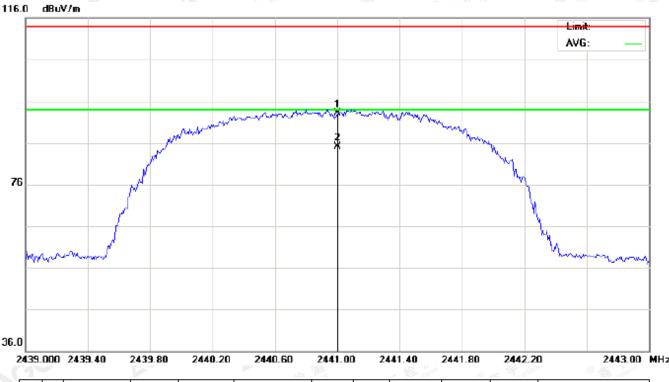
| (  |     |    |          |         |        |             | Shin   |        | MAL LOCO |                   | Se Glo          | (B) And and (C) |
|----|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|-----------------|
|    | No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment         |
|    |     | -  | MHz      | dBu∀    | dB/m   | dBu∀/m      | dBuV/m | dB     |          | cm                | degree          |                 |
| 50 | 1   |    | 2441.000 | 83.14   | 10.36  | 93.50       | 114.00 | -20.50 | peak     |                   |                 |                 |
|    | 2   | *  | 2441.000 | 74.74   | 10.36  | 85.10       | 94.00  | -8.90  | AVG      | 100               | 341             |                 |

RESULT: PASS

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

| N  | 0. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment |
|----|----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| a. |    | -  | MHz      | dBu∨    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm                | degree          |         |
|    |    |    | 2441.000 | 82.84   | 10.36  | 93.20       | 114.00 | -20.80 | peak     |                   |                 |         |
| 2  | 2  | *  | 2441.000 | 74.66   | 10.36  | 85.02       | 94.00  | -8.98  | AVG      | 100               | 100             |         |

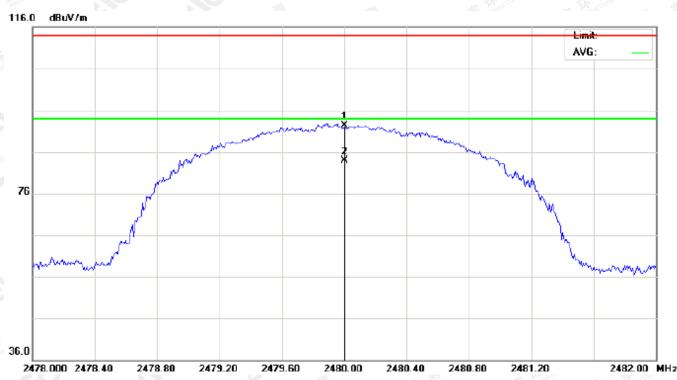
RESULT: PASS

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

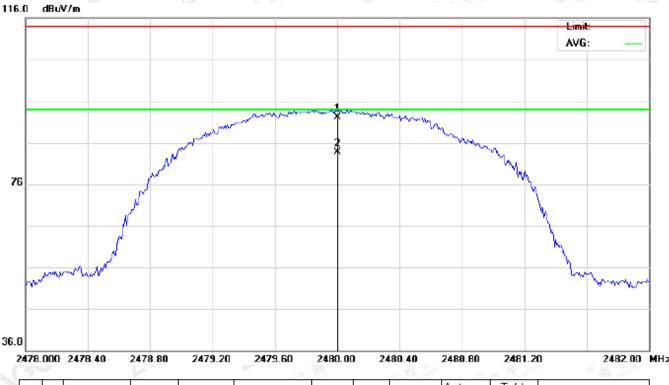
|    |     |    |          |         |        |             | A Real Ande |        |          |                   |                 |         |
|----|-----|----|----------|---------|--------|-------------|-------------|--------|----------|-------------------|-----------------|---------|
|    | No. | Mk | Freq.    | Reading | Factor | Measurement | Limit       | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment |
|    |     | -  | MHz      | dBu∀    | dB/m   | dBuV/m      | dBuV/m      | dB     |          | cm                | degree          |         |
| 50 | 1   |    | 2480.000 | 81.92   | 10.41  | 92.33       | 114.00      | -21.67 | peak     |                   |                 |         |
|    | 2   | *  | 2480.000 | 73.52   | 10.41  | 83.93       | 94.00       | -10.07 | AVG      | 100               | 304             |         |

**RESULT: PASS** 

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

| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| į.  | -  | MHz      | dBu∨    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm                | degree          |         |
| 1   |    | 2480.000 | 81.69   | 10.41  | 92.10       | 114.00 | -21.90 | peak     |                   |                 |         |
| 2   | *  | 2480.000 | 73.20   | 10.41  | 83.61       | 94.00  | -10.39 | AVG      | 100               | 154             |         |

## **RESULT: PASS**

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

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

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Field strength of the fundamental signal

## 1Mbps Result:

Peak value

| Frequency | Reading<br>Level | Factor | Measurement | Limit    | Over   | Antenna      |  |
|-----------|------------------|--------|-------------|----------|--------|--------------|--|
| (MHz)     | (dBuv)           | (dB/m) | (dBuv/m)    | (dBuv/m) | (dB)   | Polarization |  |
| 2402      | 84.43            | 10.32  | 94.75       | 114      | -19.25 | Horizontal   |  |
| 2402      | 84.09            | 10.32  | 94.41       | 114      | -19.59 | Vertical     |  |
| 2441      | 83.14            | 10.36  | 93.50       | 114      | -20.50 | Horizontal   |  |
| 2441      | 82.84            | 10.36  | 93.20       | 114      | -20.80 | Vertical     |  |
| 2480      | 81.92            | 10.41  | 92.33       | 114      | -21.67 | Horizontal   |  |
| 2480      | 81.69            | 10.41  | 92.10       | 114      | -21.90 | Vertical     |  |

## Average value

| Frequency | Reading<br>Level | Factor | Measurement | Limit    | Over   | Antenna      |
|-----------|------------------|--------|-------------|----------|--------|--------------|
| (MHz)     | (dBuv)           | (dB/m) | (dBuv/m)    | (dBuv/m) | (dB)   | Polarization |
| 2402      | 76.33            | 10.32  | 86.65       | 94       | -7.35  | Horizontal   |
| 2402      | 76.08            | 10.32  | 86.40       | 94       | -7.60  | Vertical     |
| 2441      | 74.74            | 10.36  | 85.10       | 94       | -8.90  | Horizontal   |
| 2441      | 74.66            | 10.36  | 85.02       | 94       | -8.98  | Vertical     |
| 2480      | 73.52            | 10.41  | 83.93       | 94       | -10.07 | Horizontal   |
| 2480      | 73.20            | 10.41  | 83.61       | 94       | -10.39 | Vertical     |

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## 2Mbps Result:

Peak value

| Frequency | Reading<br>Level | Factor | Measurement | Limit    | Over   | Antenna      |
|-----------|------------------|--------|-------------|----------|--------|--------------|
| (MHz)     | (dBuv)           | (dB/m) | (dBuv/m)    | (dBuv/m) | (dB)   | Polarization |
| 2402      | 83.89            | 10.32  | 94.21       | 114      | -19.79 | Horizontal   |
| 2402      | 83.59            | 10.32  | 93.91       | 114      | -20.09 | Vertical     |
| 2441      | 82.58            | 10.36  | 92.94       | 114      | -21.06 | Horizontal   |
| 2441      | 82.27            | 10.36  | 92.63       | 114      | -21.37 | Vertical     |
| 2480      | 81.41            | 10.41  | 91.82       | 114      | -22.18 | Horizontal   |
| 2480      | 81.15            | 10.41  | 91.56       | 114      | -22.44 | Vertical     |

#### Average value

| Frequency | Reading<br>Level | Factor | Measurement | Limit    | Over   | Antenna      |  |
|-----------|------------------|--------|-------------|----------|--------|--------------|--|
| (MHz)     | (dBuv)           | (dB/m) | (dBuv/m)    | (dBuv/m) | (dB)   | Polarization |  |
| 2402      | 75.78            | 10.32  | 86.10       | 94       | -7.90  | Horizontal   |  |
| 2402      | 75.55            | 10.32  | 85.87       | 94       | -8.13  | Vertical     |  |
| 2441      | 74.20            | 10.36  | 84.56       | 94       | -9.44  | Horizontal   |  |
| 2441      | 73.87            | 10.36  | 84.23       | 94       | -9.77  | Vertical     |  |
| 2480      | 72.99            | 10.41  | 83.40       | 94       | -10.60 | Horizontal   |  |
| 2480      | 72.65            | 10.41  | 83.06       | 94       | -10.94 | Vertical     |  |

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## 3Mbps Result:

Peak value

| Frequency | Reading<br>Level | Factor | Measurement | Limit    | Over   | Antenna      |  |
|-----------|------------------|--------|-------------|----------|--------|--------------|--|
| (MHz)     | (dBuv)           | (dB/m) | (dBuv/m)    | (dBuv/m) | (dB)   | Polarization |  |
| 2402      | 83.41            | 10.32  | 93.73       | 114      | -20.27 | Horizontal   |  |
| 2402      | 83.11            | 10.32  | 93.43       | 114      | -20.57 | Vertical     |  |
| 2441      | 82.09            | 10.36  | 92.45       | 114      | -21.55 | Horizontal   |  |
| 2441      | 81.85            | 10.36  | 92.21       | 114      | -21.79 | Vertical     |  |
| 2480      | 80.95            | 10.41  | 91.36       | 114      | -22.64 | Horizontal   |  |
| 2480      | 80.65            | 10.41  | 91.06       | 114      | -22.94 | Vertical     |  |

#### Average value

| Frequency | Reading<br>Level | Factor | Measurement | Limit    | Over   | Antenna      |
|-----------|------------------|--------|-------------|----------|--------|--------------|
| (MHz)     | (dBuv)           | (dB/m) | (dBuv/m)    | (dBuv/m) | (dB)   | Polarization |
| 2402      | 75.31            | 10.32  | 85.63       | 94       | -8.37  | Horizontal   |
| 2402      | 75.05            | 10.32  | 85.37       | 94       | -8.63  | Vertical     |
| 2441      | 73.71            | 10.36  | 84.07       | 94       | -9.93  | Horizontal   |
| 2441      | 73.63            | 10.36  | 83.99       | 94       | -10.01 | Vertical     |
| 2480      | 72.52            | 10.41  | 82.93       | 94       | -11.07 | Horizontal   |
| 2480      | 72.21            | 10.41  | 82.62       | 94       | -11.38 | Vertical     |

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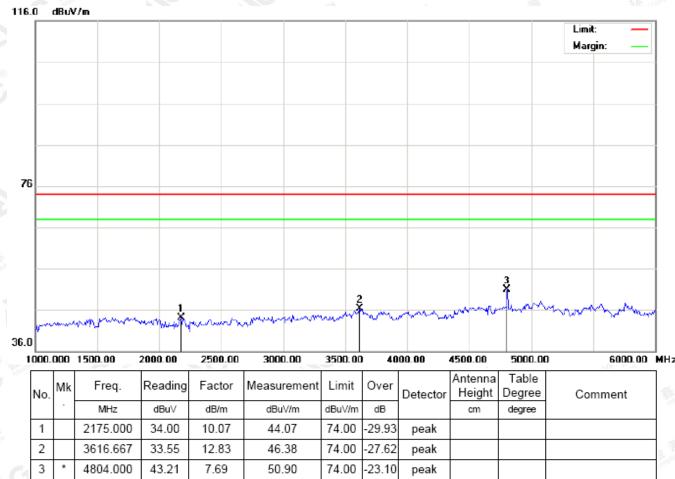
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## (Worst modulation: GFSK)

#### FOR BR/EDR

#### For Harmonics

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



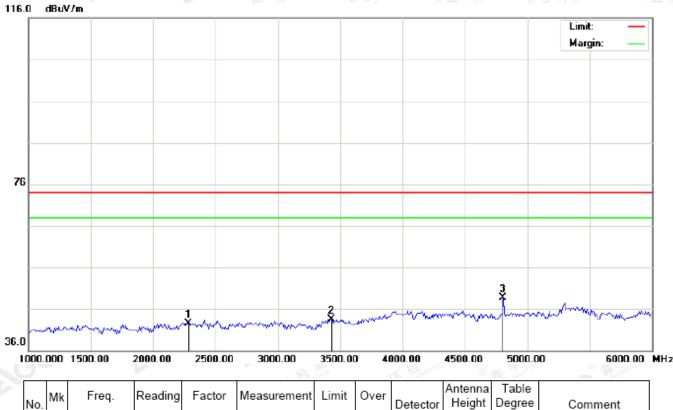
#### **RESULT: PASS**

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

| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| 8   | •  | MHz      | dBu∨    | dB/m   | dBu\//m     | dBuV/m | dB     |          | cm                | degree          |         |
| 1   |    | 2283.333 | 32.41   | 10.19  | 42.60       | 74.00  | -31.40 | peak     |                   |                 |         |
| 2   |    | 3433.333 | 31.54   | 12.05  | 43.59       | 74.00  | -30.41 | peak     |                   |                 |         |
| 3   | *  | 4804.000 | 41.05   | 7.69   | 48.74       | 74.00  | -25.26 | peak     |                   |                 |         |

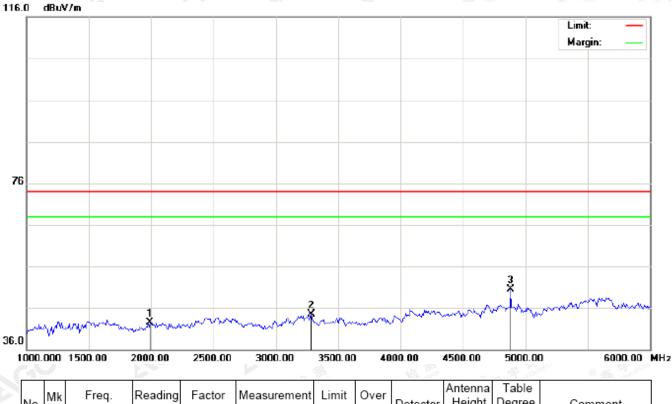
**RESULT: PASS** 

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

| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
|     | -  | MHz      | dBu∨    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm                | degree          |         |
| 1   |    | 1991.667 | 32.70   | 9.79   | 42.49       | 74.00  | -31.51 | peak     |                   |                 |         |
| 2   |    | 3283.333 | 32.67   | 11.91  | 44.58       | 74.00  | -29.42 | peak     |                   |                 |         |
| 3   | *  | 4882.000 | 42.66   | 7.89   | 50.55       | 74.00  | -23.45 | peak     |                   |                 |         |

**RESULT: PASS** 

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| 76 |    |  |  | 2 | 3 | martin |  |
|----|----|--|--|---|---|--------|--|
| 76 |    |  |  |   |   |        |  |
|    | 76 |  |  |   |   |        |  |
|    |    |  |  |   |   |        |  |

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

| 1000 | .000 | 1500.00  | 2000.00 | 2500.00 | 3000.00     | 3500.00 | ) 40   | 00.00    | 4500.00           | 5000.00         | 0 6000.00 | MHz |
|------|------|----------|---------|---------|-------------|---------|--------|----------|-------------------|-----------------|-----------|-----|
| No.  | Mk   | Freq.    | Reading | Factor  | Measurement | Limit   | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment   |     |
|      | -    | MHz      | dBu∀    | dB/m    | dBu\//m     | dBuV/m  | dB     |          | cm                | degree          |           |     |
| 1    |      | 2433.333 | 34.05   | 10.36   | 44.41       | 74.00   | -29.59 | peak     |                   |                 |           | ]   |
| 2    |      | 3491.667 | 33.15   | 12.10   | 45.25       | 74.00   | -28.75 | peak     |                   |                 |           | 1   |
| 3    | *    | 4882.000 | 42.39   | 7.89    | 50.28       | 74.00   | -23.72 | peak     |                   |                 |           | 15% |

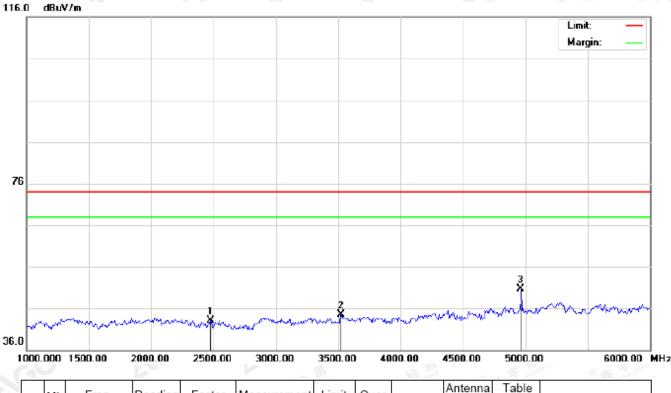
**RESULT: PASS** 

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

| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree |  |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|--|
|     | -  | MHz      | dBu∨    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm                | degree          |  |
| 1   |    | 2475.000 | 32.73   | 10.40  | 43.13       | 74.00  | -30.87 | peak     |                   |                 |  |
| 2   |    | 3525.000 | 32.29   | 12.26  | 44.55       | 74.00  | -29.45 | peak     |                   |                 |  |
| 3   | *  | 4960.000 | 42.60   | 8.09   | 50.69       | 74.00  | -23.31 | peak     |                   |                 |  |

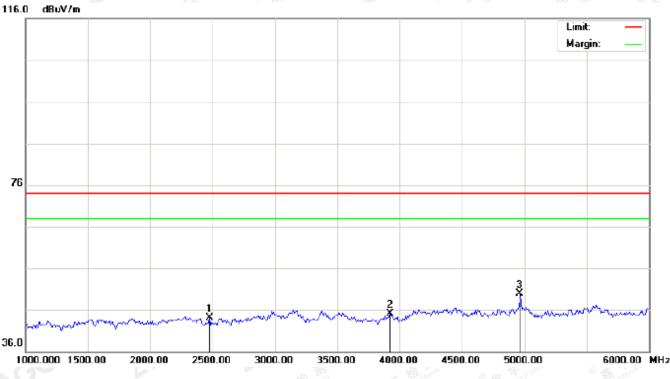
**RESULT: PASS** 

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

| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height |        | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|--------|---------|
| 8   | •  | MHz      | dBu∨    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm                | degree |         |
| 1   |    | 2475.000 | 33.61   | 10.40  | 44.01       | 74.00  | -29.99 | peak     |                   |        |         |
| 2   |    | 3925.000 | 30.33   | 14.73  | 45.06       | 74.00  | -28.94 | peak     |                   |        |         |
| 3   | *  | 4960.000 | 41.91   | 8.09   | 50.00       | 74.00  | -24.00 | peak     |                   |        |         |

#### **RESULT: PASS**

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

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

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

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# **10. BAND EDGE EMISSION**

### 10.1. MEASUREMENT PROCEDURE

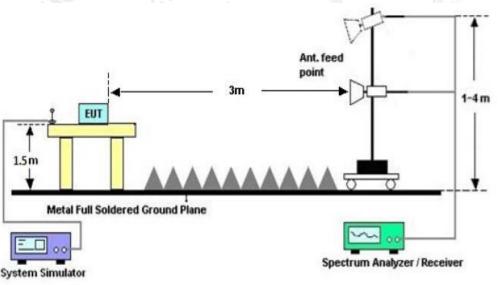
1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

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

3. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission.

| 2200 2405<br>2478 2500 | Start frequency(MHz) |                       |             | Stop frequency(MHz | z)   |
|------------------------|----------------------|-----------------------|-------------|--------------------|------|
| 2478 2500              | 2200                 | The amount            | nce C Front | 2405               | SC - |
|                        | 2478                 | C Allestation of Cito | GO          | 2500               |      |

#### 10.2 TEST SETUP



RADIATED EMISSION TEST SETUP

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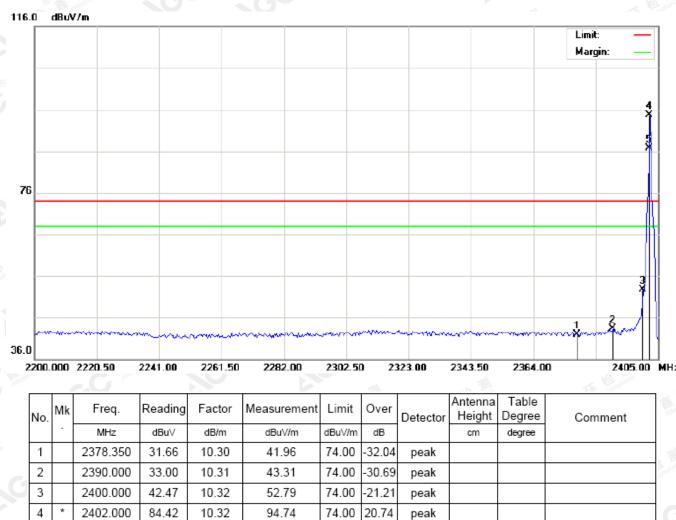


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# 10.3 RADIATED TEST RESULT (Worst modulation: GFSK) FOR BR/EDR

# TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



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74.00

12.61

AVG

100

301

86.61



5

х

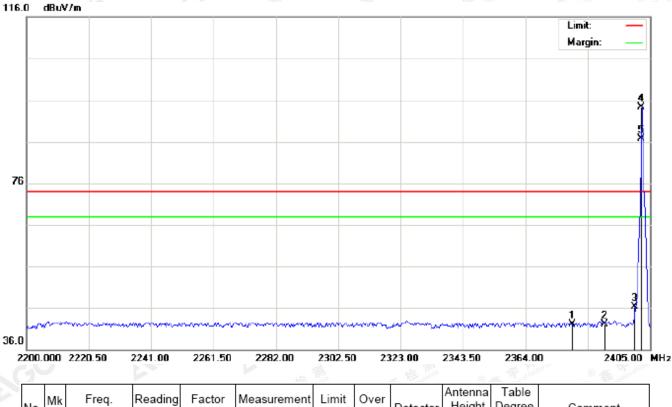
2402.000

76.29

10.32



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## TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical

|   | No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment |
|---|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| à |     | -  | MHz      | dBu∨    | dB/m   | dBu∀/m      | dBuV/m | dB     |          | cm                | degree          |         |
| š | 1   |    | 2379.375 | 31.76   | 10.30  | 42.06       | 74.00  | -31.94 | peak     |                   |                 |         |
|   | 2   |    | 2390.000 | 31.71   | 10.31  | 42.02       | 74.00  | -31.98 | peak     |                   |                 |         |
|   | 3   |    | 2400.000 | 36.06   | 10.32  | 46.38       | 74.00  | -27.62 | peak     |                   |                 |         |
|   | 4   | *  | 2402.000 | 84.08   | 10.32  | 94.40       | 74.00  | 20.40  | peak     |                   |                 |         |
|   | 5   | Х  | 2402.000 | 76.30   | 10.32  | 86.62       | 74.00  | 12.62  | AVG      | 100               | 154             |         |

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#### TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal

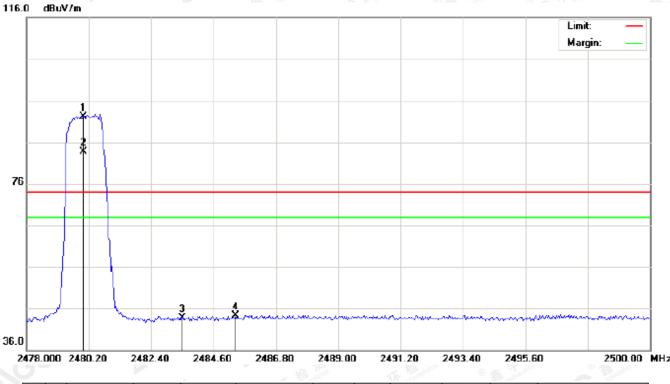
|      | No. | Mk  | Freq.    | Reading | Factor | Measurement | Limit | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment |
|------|-----|-----|----------|---------|--------|-------------|-------|--------|----------|-------------------|-----------------|---------|
| 15   | -   | MHz | dBuV     | dB/m    | dBuV/m | dBuV/m      | dB    |        | cm       | degree            |                 |         |
| stal | 1   | *   | 2480.000 | 81.90   | 10.41  | 92.31       | 74.00 | 18.31  | peak     |                   |                 |         |
|      | 2   | Х   | 2480.000 | 73.51   | 10.41  | 83.92       | 74.00 | 9.92   | AVG      | 100               | 305             |         |
|      | 3   |     | 2483.500 | 33.69   | 10.41  | 44.10       | 74.00 | -29.90 | peak     |                   |                 |         |
|      | 4   |     | 2484.820 | 33.86   | 10.41  | 44.27       | 74.00 | -29.73 | peak     |                   |                 |         |

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### TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical

| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height |        | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|--------|---------|
| ġ   | •  | MHz      | dBu∨    | dB/m   | dBu\//m     | dBuV/m | dB     |          | cm                | degree |         |
| 1   | *  | 2480.000 | 81.69   | 10.41  | 92.10       | 74.00  | 18.10  | peak     |                   |        |         |
| 2   | Х  | 2480.000 | 73.24   | 10.41  | 83.65       | 74.00  | 9.65   | AVG      | 100               | 133    |         |
| 3   |    | 2483.500 | 33.26   | 10.41  | 43.67       | 74.00  | -30.33 | peak     |                   |        |         |
| 4   |    | 2485.370 | 33.89   | 10.41  | 44.30       | 74.00  | -29.70 | peak     |                   |        |         |

#### **RESULT: PASS**

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

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

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

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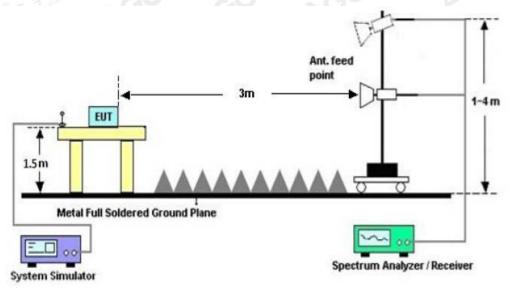
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# 11. 20DB BANDWIDTH

#### **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  $\geq$  1% of the 20 dB bandwidth, VBW  $\geq$  3RBW; 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

| BLUET                       | OOTH 1MBPS LIN | MITS AND MEASU     | REMENT RESULT |        |  |  |  |  |  |
|-----------------------------|----------------|--------------------|---------------|--------|--|--|--|--|--|
|                             |                | Measurement Result |               |        |  |  |  |  |  |
| Applicable Limits           |                | Test Data (MHz)    |               |        |  |  |  |  |  |
|                             |                | 99%OBW (MHz)       | -20dB BW(MHz) | Result |  |  |  |  |  |
| The Const Const of American | Low Channel    | 0.990              | 1.120         | PASS   |  |  |  |  |  |
| N/A                         | Middle Channel | 0.986              | 1.120         | PASS   |  |  |  |  |  |
| ill ill                     | High Channel   | 0.998              | 1.120         | PASS   |  |  |  |  |  |

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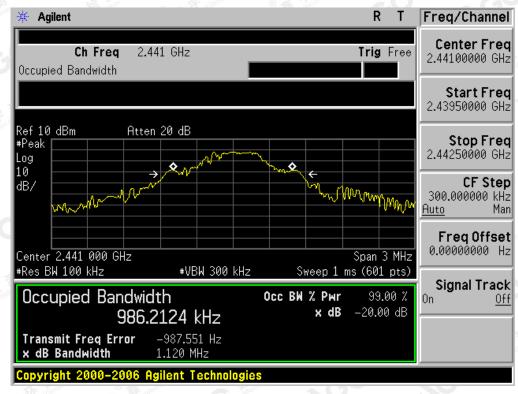


#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

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#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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# TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

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| BLUET                   | OOTH 2MBPS LIN | MITS AND MEASU | REMENT RESULT |        |
|-------------------------|----------------|----------------|---------------|--------|
|                         |                | Measure        | ement Result  |        |
| Applicable Limits       |                | Desult         |               |        |
|                         |                | 99%OBW (MHz)   | -20dB BW(MHz) | Result |
| The termine the termine | Low Channel    | 1.193          | 1.352         | PASS   |
| N/A                     | Middle Channel | 1.210          | 1.328         | PASS   |
| SCC .                   | High Channel   | 1.197          | 1.347         | PASS   |

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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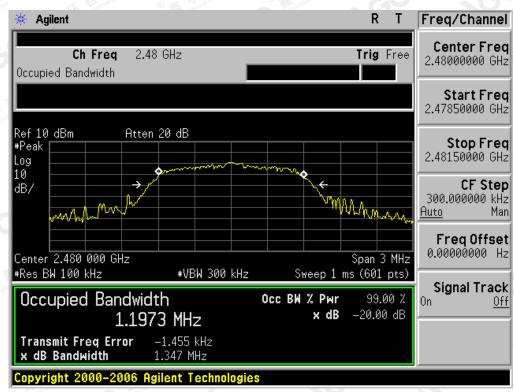






# TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

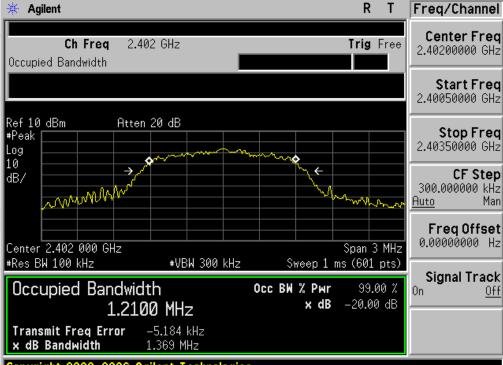
#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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| BLUET             | OOTH 3MBPS LIN | MITS AND MEASU | REMENT RESULT |        |
|-------------------|----------------|----------------|---------------|--------|
|                   |                | Measure        | ement Result  |        |
| Applicable Limits |                | Decult         |               |        |
|                   |                | 99%OBW (MHz)   | -20dB BW(MHz) | Result |
| The termine       | Low Channel    | 1.210          | 1.369         | PASS   |
| N/A               | Middle Channel | 1.210          | 1.349         | PASS   |
|                   | High Channel   | 1.193          | 1.321         | PASS   |

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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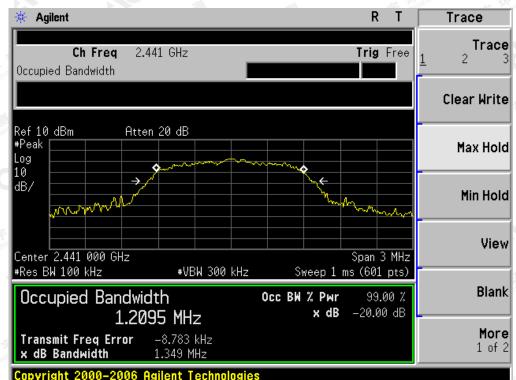
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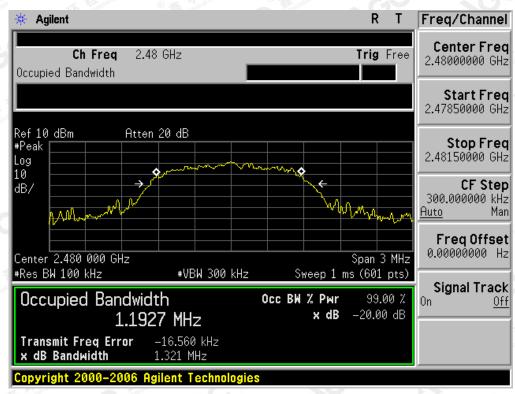
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# TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

#### 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

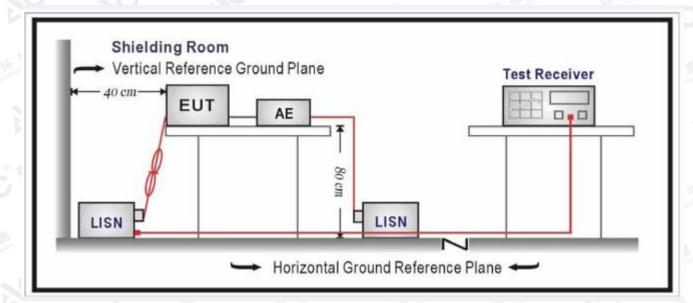
| Francisco     | Maximum RF  | Line Voltage   |
|---------------|-------------|----------------|
| Frequency     | Q.P.( dBuV) | Average( dBuV) |
| 150kHz~500kHz | 66-56       | 56-46          |
| 500kHz~5MHz   | 56          | 46             |
| 5MHz~30MHz    | 60 60       | 50             |

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

- 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.

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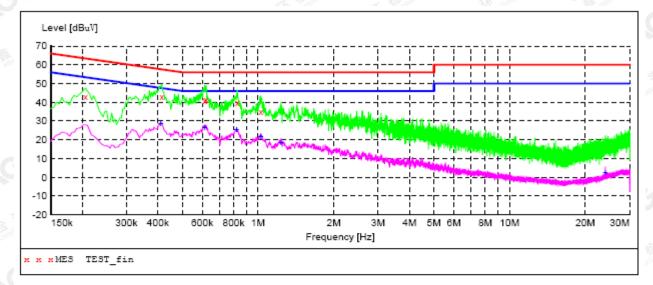
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#### 12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter(worst case)

FOR BR/EDR

Line Conducted Emission Test Line 1-L



#### MEASUREMENT RESULT: "TEST fin"

| 018/3/9 10:43<br>Frequency<br>MHz | Level<br>dBuV | Transd<br>dB | Limit<br>dBuV | Margin<br>dB | Detector | Line | PE  |
|-----------------------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.206000                          | 42.80         | 11.4         | 63            | 20.6         | -        | L1   | FLO |
| 0.414000                          | 43.20         | 11.4         | 58            | 14.4         |          | L1   | FLO |
| 0.614000                          | 40.80         | 11.4         | 56            | 15.2         |          | L1   | FLO |
| 0.622000                          | 41.30         | 11.4         | 56            | 14.7         |          | L1   | FLO |
| 0.826000                          | 39.90         | 11.3         | 56            | 16.1         |          | L1   | FLO |
| 1.026000                          | 35.20         | 11.3         | 56            | 20.8         |          | L1   | FLO |

MEASUREMENT RESULT: "TEST fin2"

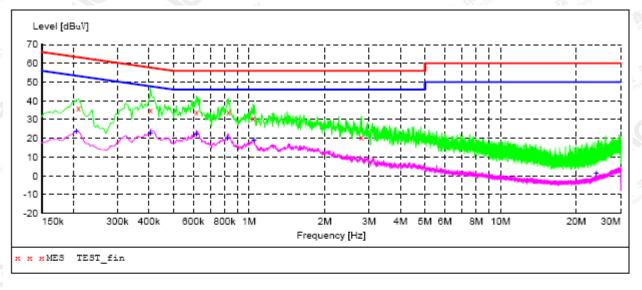
| 20 | 018/3/9 10:43<br>Frequency<br>MHz |       | Transd<br>dB | Limit<br>dBuV | Margin<br>dB | Detector | Line | PE  |
|----|-----------------------------------|-------|--------------|---------------|--------------|----------|------|-----|
|    | 0.410000                          | 28.50 | 11.4         | 48            | 19.1         | AV       | L1   | FLO |
|    | 0.614000                          | 26.60 | 11.4         | 46            | 19.4         | AV       | L1   | FLO |
|    | 0.822000                          | 25.20 | 11.3         | 46            | 20.8         | AV       | L1   | FLO |
|    | 1.026000                          | 21.60 | 11.3         | 46            | 24.4         | AV       | L1   | FLO |
|    | 1.234000                          | 18.60 | 11.3         | 46            | 27.4         | AV       | L1   | FLO |
|    | 23.986000                         | 2.40  | 11.0         | 50            | 47.6         | AV       | L1   | FLO |
|    |                                   |       |              |               |              |          |      |     |

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Line Conducted Emission Test Line 2-N

#### MEASUREMENT RESULT: "TEST fin"

2018/3/9 10:47 ΡE Transd Limit Frequency Level Margin Detector Line MHz dB dBuV dBuV dB 0.210000 35.80 11.4 63 27.4 QP Ν FLO 0.406000 34.70 11.4 23.0 FLO 58 QP Ν 0.618000 34.10 11.4 56 21.9 QP Ν FLO Ν 0.830000 33.80 11.3 56 22.2 QP FLO 1.038000 25.3 QP Ν FLO 30.70 11.3 56 2.798000 Ν 20.30 11.4 56 35.7 QP FLO

#### MEASUREMENT RESULT: "TEST fin2"

| 2018/3/9 10:47<br>Frequency<br>MHz |       | Transd<br>dB | Limit<br>dBuV | Margin<br>dB | Detector | Line | PE  |
|------------------------------------|-------|--------------|---------------|--------------|----------|------|-----|
| 0.206000                           | 23.90 | 11.4         | 53            | 29.5         | AV       | Ν    | FLO |
| 0.406000                           | 22.90 | 11.4         | 48            | 24.8         | AV       | N    | FLO |
| 0.618000                           | 22.20 | 11.4         | 46            | 23.8         | AV       | N    | FLO |
| 0.822000                           | 20.20 | 11.3         | 46            | 25.8         | AV       | N    | FLO |
| 1.046000                           | 18.80 | 11.3         | 46            | 27.2         | AV       | N    | FLO |
| 23.982000                          | 1.50  | 11.0         | 50            | 48.5         | AV       | N    | FLO |
|                                    |       |              |               |              |          |      |     |

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



FCC RADIATED EMISSION TEST SETUP

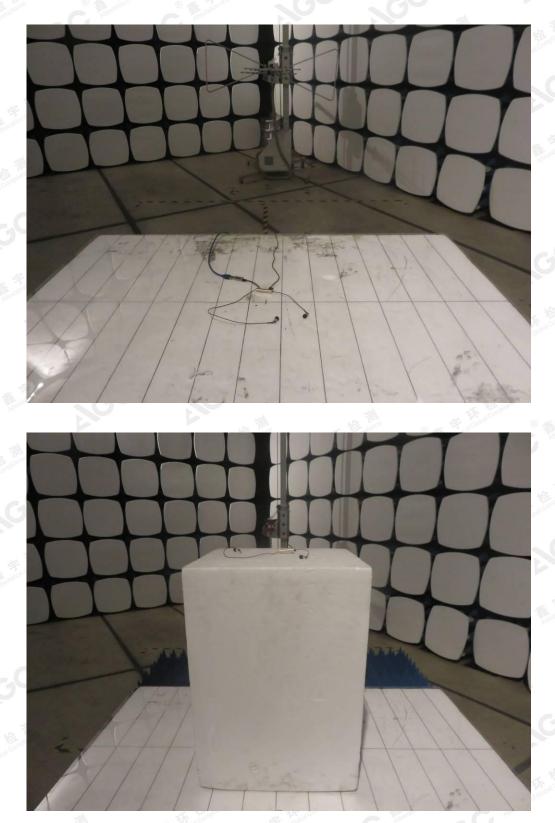


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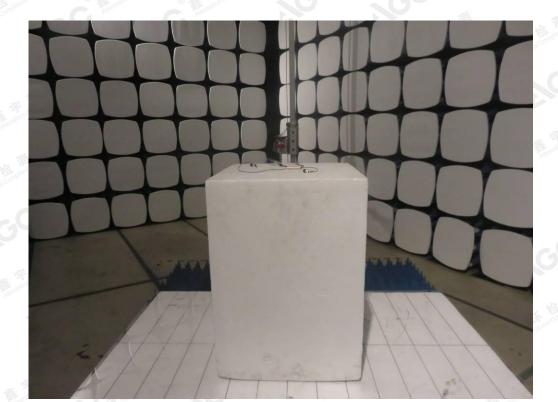


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# **APPENDIX B: PHOTOGRAPHS OF EUT**

TOTAL VIEW OF EUT



TOP VIEW OF EUT



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BOTTOM VIEW OF EUT

FRONT VIEW OF EUT



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## BACK VIEW OF EUT



LEFT VIEW OF EUT



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#### **RIGHT VIEW OF EUT**



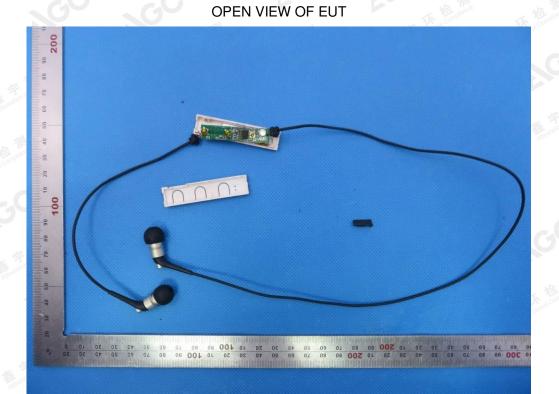
#### VIEW OF EUT (PORT)

The results showed http://www.ago-gett.com.

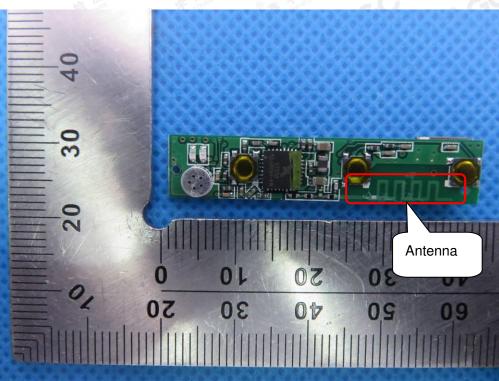
Attestation of Global Compliance



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#### **INTERNAL VIEW OF EUT-1**



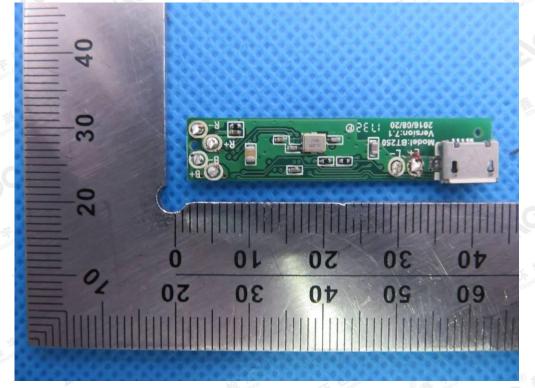
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## **INTERNAL VIEW OF EUT-2**



#### **INTERNAL VIEW OF EUT-3**



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### VIEW OF ADAPTER(AE)



The adapter was supplied by AGC All Color Sample



#### ----END OF REPORT----

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