

FCC
EMC
TEST REPORT

ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR
Lcon Wireless Bluetooth Headphone

ISSUED TO
A- Audio Headphones, Inc

7200 Corporate Center Drive Miami, Florida 33126 USA



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Date: Sep 15, 2014

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Wei Yanquan
(Chief Engineer)

Date: Sep 15, 2014

Report No.: BL-SZ1470024-401

EUT Type: Lcon Wireless Bluetooth Headphones

Model Name: A21, A22

Brand Name: A AUDIO

Test Standard: 47 CFR Part 15 Subpart B

FCC ID: 2AC4GA21A22

Test conclusion: PASS

Test Date: Sep 01, 2014 ~ Sep 14, 2014

Date of Issue: Sep 15, 2014

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Revision History

| | | |
|----------------|---------------------|----------------------|
| Version | Issue Date | Revisions |
| <u>Rev. 01</u> | <u>Sep 15, 2014</u> | <u>Initial Issue</u> |

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1 GENERAL INFORMATION

1.1 Identification of the Testing Laboratory

| | |
|--------------|---|
| Company Name | Shenzhen BALUN Technology Co., Ltd. |
| Address | Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China |
| Phone Number | +86 755 6683 3402 |
| Fax Number | +86 755 6182 4271 |

1.2 Identification of the Responsible Testing Location

| | |
|---------------------------|---|
| Test Location | Shenzhen BALUN Technology Co., Ltd. |
| Address | Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China |
| Accreditation Certificate | <p>The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1.</p> <p>The laboratory has been listed by US Federal Communications Commission to perform electromagnetic emission measurements. The recognition numbers of test site are 832625.</p> <p>The laboratory has met the requirements of the IAS Accreditation Criteria for Testing Laboratories (AC89), has demonstrated compliance with ISO/IEC Standard 17025:2005. The accreditation certificate number is TL-588.</p> <p>The laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L6791.</p> |
| Description | All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055 |

1.3 Announce

- (1) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (2) The test report is invalid if there is any evidence and/or falsification.
- (3) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (4) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

2 PRODUCT INFORMATION

2.1 Applicant

| | |
|-----------|--|
| Applicant | A- Audio Headphones, Inc |
| Address | 7200 Corporate Center Drive Miami, Florida 33126 USA |

2.2 Manufacturer

| | |
|--------------|--|
| Manufacturer | OCVACO Electronic Limited |
| Address | No 142, South Tanshen Road, Tanzhou Town, Zhongshan City, Guangdong, China |

2.3 General Description for Equipment under Test (EUT)

| | |
|---|--|
| EUT Type | Lcon Wireless Bluetooth Headphones |
| Model Name | A21 |
| Series Model Name | A21, A22 |
| Description of Model name differentiation | The equipment model A21 and A22 are the Lcon Wireless Bluetooth Headphones, the electrical parameters and internal structure of circuit are same, only the model is different. |
| Band Name | N/A |
| Hardware Version | V1.2 |
| Software Version | V1.2 |
| Input voltage | DC 5V |
| Input current | 1.0A |
| Network and Wireless connectivity | Bluetooth 3.0, Bluetooth 4.0 Low Energy (BLE) |
| About the Product | The equipment is Lcon Wireless Bluetooth Headphones, operating at 2.4GHz ISM band. Which supports dual mode Bluetooth 4.0. |

2.4 Ancillary Equipment

| | | |
|-----------------------|---------------------|-----------------------|
| Ancillary Equipment 1 | Audio Line | |
| Ancillary Equipment 2 | Audio Line(Control) | |
| Ancillary Equipment 3 | Battery | |
| | Brand Name | N/A |
| | Model No | PT602248 |
| | Serial No | N/A |
| | Capacitance | 650mAh |
| | Rated Voltage | 3.7V |
| | Extreme Voltage | Low: 3.3V / High:4.2V |

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

| No. | Identity | Document Title |
|-----|--|--|
| 1 | FCC 47 CFR Part 15 Subpart B (10-1-09 Edition) | Unintentional Radiators |
| 2 | ANSI C63.4-2009 | American National Standard for Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz |

3.2 Verdict

| No. | Description | FCC Rule | Test Verdict | Result |
|-----|------------------------------|----------|--------------|------------|
| 1 | Radiated Emission | 15.109 | PASS | Annex A .1 |
| 2 | Conducted Emission, DC Ports | 15.107 | PASS | Annex A .2 |

3.3 Test Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

| Measurement | Value |
|----------------------------------|--------|
| Conducted emissions (9KHz-30MHz) | 1.12dB |
| Radiated emissions (30MHz-1GHz) | 2.11dB |
| Radiated emissions (1GHz-18GHz) | 3.31dB |

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

| Environment Parameter | Selected Values During Tests | | |
|---|------------------------------|---------|-------------------|
| | Temperature | Voltage | Relative Humidity |
| Normal Temperature, Normal Voltage (NTNV) | 23°C~25°C | DC 5.0V | 50%-55% |

4.2 Test Equipment List

| Radiated Emission Test | | | | | | |
|---|---------------|---------------|------------|------------|------------|-------------------------------------|
| Description | Manufacturer | Model | Serial No. | Cal. Date | Cal. Due | Use |
| EMI Receiver | ROHDE&SCHWARZ | ESRP | 101036 | 2014.07.07 | 2015.07.06 | <input checked="" type="checkbox"/> |
| Test Antenna- Loop(9kHz- 30MHz) | SCHWARZBECK | FMZB 1519 | 1519-037 | 2013.07.02 | 2015.07.01 | <input checked="" type="checkbox"/> |
| Test Antenna- Bi-Log(30MHz -3GHz) | SCHWARZBECK | VULB 9163 | 9163-624 | 2013.07.03 | 2015.07.02 | <input checked="" type="checkbox"/> |
| Test Antenna- Horn(1- 18GHz) | SCHWARZBECK | BBHA 9120D | 9120D-1148 | 2013.07.02 | 2015.07.01 | <input checked="" type="checkbox"/> |
| Test Antenna- Horn(15- 26.5GHz) | SCHWARZBECK | BBHA 9170 | 9170-305 | 2013.07.02 | 2015.07.01 | <input type="checkbox"/> |
| Anechoic Chamber | RAINFORD | 9m*6m*6 m | N/A | 2013.10.07 | 2014.10.06 | <input checked="" type="checkbox"/> |

| Conducted disturbance Test | | | | | | |
|----------------------------|---------------|--------------|------------|------------|------------|-------------------------------------|
| Description | Manufacturer | Model | Serial No. | Cal. Date | Cal. Due | Use |
| EMI Receiver | ROHDE&SCHWARZ | ESRP | 101036 | 2014.07.07 | 2015.07.06 | <input checked="" type="checkbox"/> |
| LISN | SCHWARZBECK | NSLK 8127 | 8127-687 | 2014.07.07 | 2015.07.06 | <input type="checkbox"/> |
| AMN | SCHWARZBECK | NNBM812 4 | 8124-509 | 2014.07.07 | 2015.07.06 | <input checked="" type="checkbox"/> |
| AMN | SCHWARZBECK | NNBM812 4 | 8124-510 | 2014.07.07 | 2015.07.06 | <input checked="" type="checkbox"/> |
| ISN | TESEQ | ISN T800 | 34449 | 2014.07.07 | 2015.07.06 | <input type="checkbox"/> |

4.3 Test Enclosure list

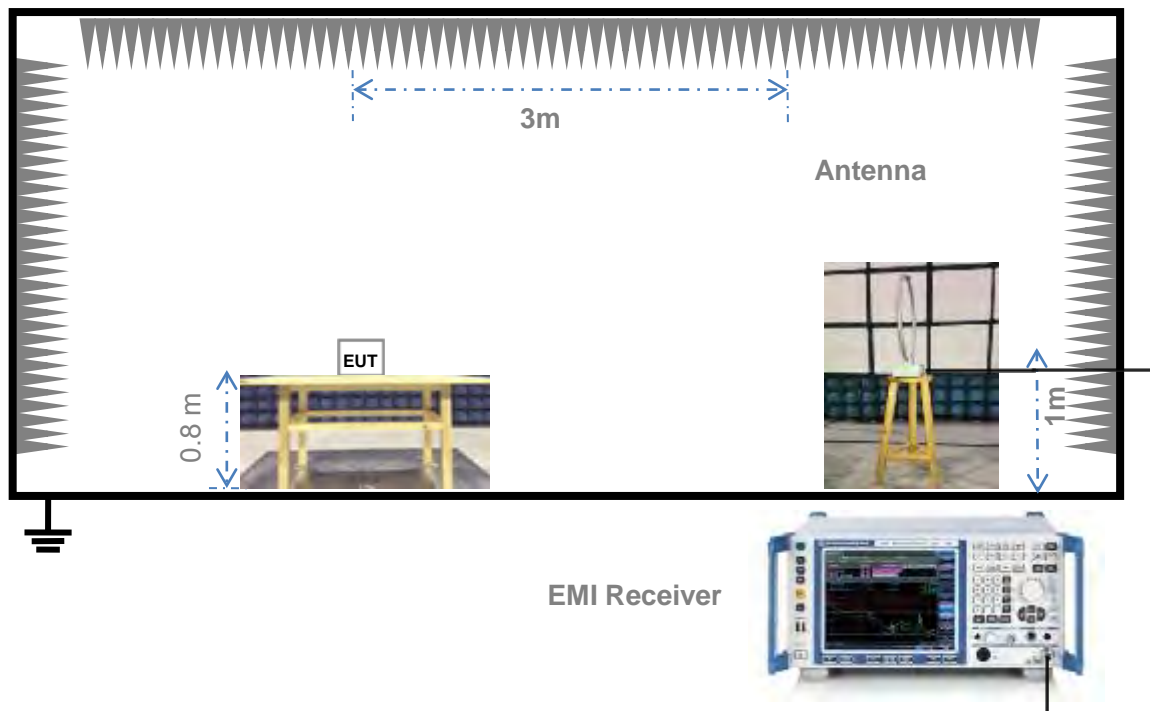
| Description | Manufacturer | Model | Serial No. | Length | Description | Use |
|---------------------|--------------|--------------|------------|--------|--------------------|-------------------------------------|
| PC | N/A | N/A | N/A | N/A | Special Handled | <input type="checkbox"/> |
| Printer | HP | DESKJET 1000 | N/A | N/A | N/A | <input type="checkbox"/> |
| Keyboard | Logitech | Y-BP62a | N/A | N/A | N/A | <input type="checkbox"/> |
| Mouse | Logitech | M100 | N/A | N/A | N/A | <input type="checkbox"/> |
| USB disk | Kingston | N/A | N/A | N/A | N/A | <input type="checkbox"/> |
| USB Data Cable | N/A | N/A | N/A | N/A | N/A | <input checked="" type="checkbox"/> |
| TF Card | Kingston | N/A | N/A | N/A | N/A | <input type="checkbox"/> |
| VGA Cable | N/A | N/A | N/A | 1.5m | Shielded with core | <input type="checkbox"/> |
| HDMI Cable | N/A | N/A | N/A | 1.5m | Shielded with core | <input type="checkbox"/> |
| DVI Cable | N/A | N/A | N/A | 1.5m | Shielded with core | <input type="checkbox"/> |
| Coaxial video cable | N/A | N/A | N/A | 2m | Shielded with core | <input type="checkbox"/> |
| Phone | BBK | HCD007TSD | N/A | N/A | N/A | <input checked="" type="checkbox"/> |
| laptop | LENOVO | K29 | N/A | N/A | N/A | <input checked="" type="checkbox"/> |

4.4 Test Configurations

| Test Configurations (TC) No. | Description |
|------------------------------|--|
| TC01 | <u>The Bluetooth test mode</u> The EUT configuration of the emission tests is EUT + iPhone. During the measurement. A Bluetooth link was established between the EUT and the iPhone, the EUT was working normally as a music player. |
| TC02 | <u>The USB Cable test mode</u> The EUT configuration of the emission tests is EUT + Laptop +USB Cable During the measurement, the USB cable is connected with the EUT and.laptop, the EUT was working normally. |
| TC03 | <u>The Audio Line test mode</u> The EUT configuration of the emission tests is EUT+ iPhone +Audio line. During the measurement, the Audio Line is connected with the EUT and the iPhone, the EUT was working normally as a music player. |
| TC04 | <u>The Audio Line(Control) test mode</u> During the measurement, the sound control line is connected with the EUT and the iPhone, and Audio Line (Control) can control the EUT play the music. |
| TC05 | <u>The Idle mode</u> The EUT configuration of the emission tests is only EUT. During the measurement, the EUT is connected with nothing and working normally. |

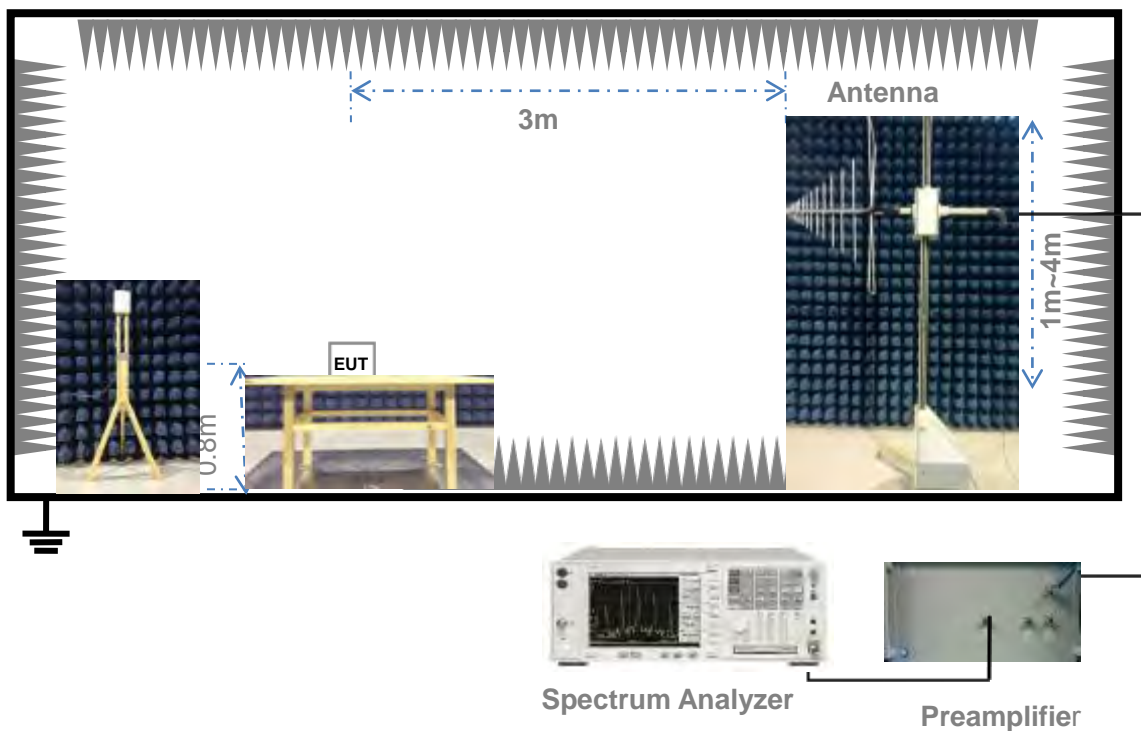
4.5 Test Setups

Test Setup 1



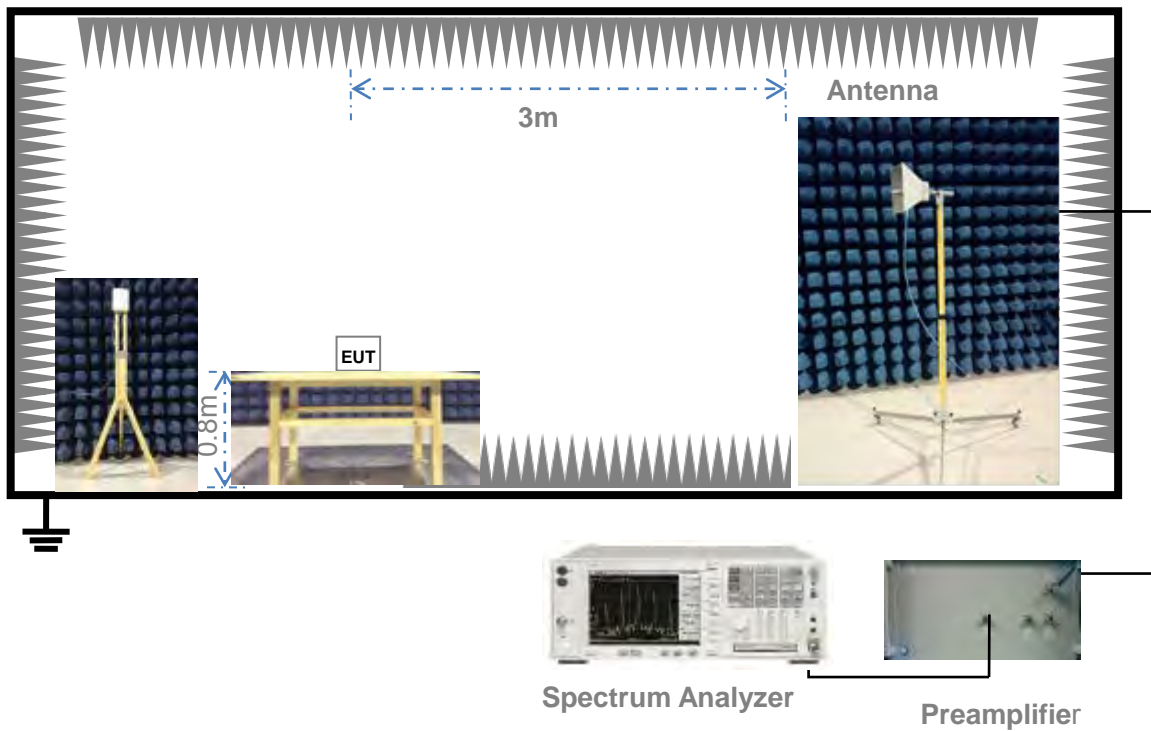
For Radiated Emission Test (Below 30MHz)

Test Setup 2



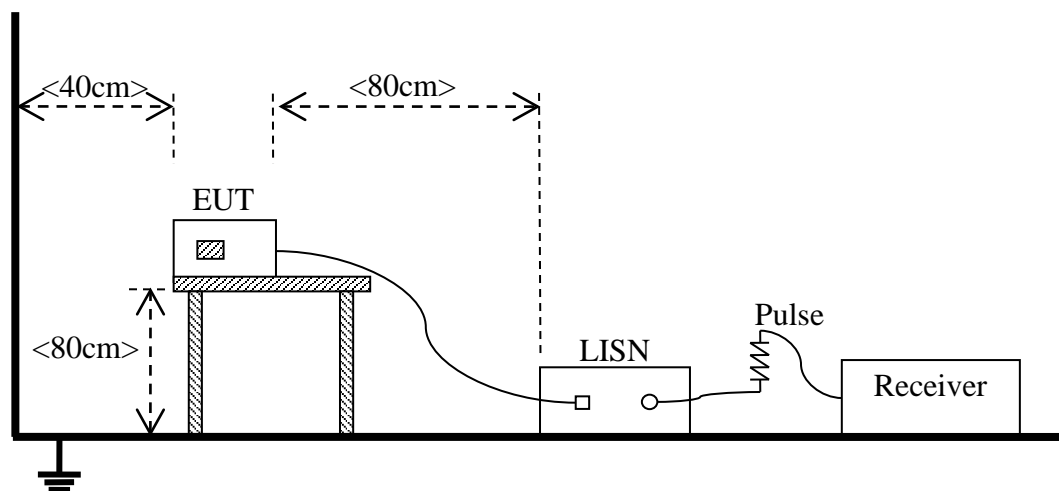
(For Radiated Emission Test (30MHz-1GHz))

Test Setup 3



(For Radiated Emission Test (above 1GHz))

Test Setup 4



(For Conducted Emission, AC Ports Test)

4.6 Test Conditions

| Test Case | Test Conditions | |
|---|--------------------|---------------------------|
| Radiated Emission | Test Env. | NTNV |
| | Test Setup | Test Setup 1&3 |
| | Test Configuration | TC01~TC05 ^{Note} |
| Conducted Emission(Connected to PC Pots, PC mains) | Test Env. | NTNV |
| | Test Setup | Test Setup 4 |
| | Test Configuration | TC01~TC05 ^{Note} |

Note: Based on client request, all normal using modes of the normal function were tested but only the worst test data of the worst mode is reported by this report.

5 TEST ITEMS

5.1 Emission Tests

5.1.1 Radiated Emission

5.1.1.1 Limit

| Frequency (MHz) | Field Strength ($\mu\text{V/m}$) | Measurement Distance (m) |
|-----------------|------------------------------------|--------------------------|
| 0.009 - 0.490 | 2400/F(kHz) | 300 |
| 0.490 - 1.705 | 24000/F(kHz) | 30 |
| 1.705 - 30.0 | 30 | 30 |
| 30 - 88 | 100 | 3 |
| 88 - 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| Above 960 | 500 | 3 |

NOTE:

- 1) Field Strength ($\text{dB}\mu\text{V/m}$) = $20 \cdot \log [\text{Field Strength } (\mu\text{V/m})]$.
- 2) In the emission tables above, the tighter limit applies at the band edges.
- 3) For above 1000MHz, limit field strength of harmonics: 54 $\text{dB}\mu\text{V/m}$ @3m (AV) and 74 $\text{dB}\mu\text{V/m}$ @3m (PK)

5.1.1.2 Test Procedure

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

An initial pre-scan was performed in the chamber using the EMI Receiver in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by Bi-Log antenna with 2 orthogonal polarities.

5.1.2 Conducted Emission

5.1.2.1 Test Limit

| Frequency range (MHz) | Conducted Limit (dB μ V) | |
|-----------------------|------------------------------|----------|
| | Quasi-peak | Average |
| 0.15 - 0.50 | 66 to 56 | 56 to 46 |
| 0.50 - 5 | 56 | 46 |
| 5 - 30 | 60 | 50 |

NOTE:

- 1) The limit is applicable to Class B ITE.
- 2) The lower limit shall apply at the band edges.
- 3) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

5.1.2.2 Test Procedure

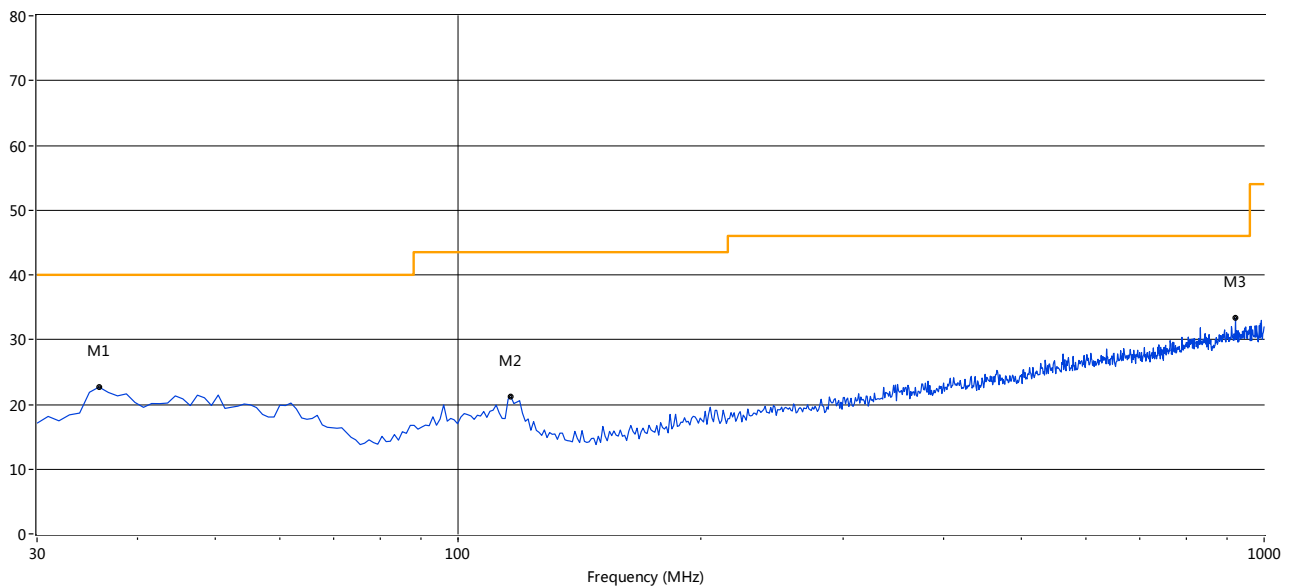
The EUT is connected to the power mains through a LISN which provides 50 Ω /50 μ H of coupling impedance for the measuring instrument. The test frequency range is from 150 kHz to 30MHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels that are more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed.

ANNEX A TEST RESULTS

A.1 Radiated Emission

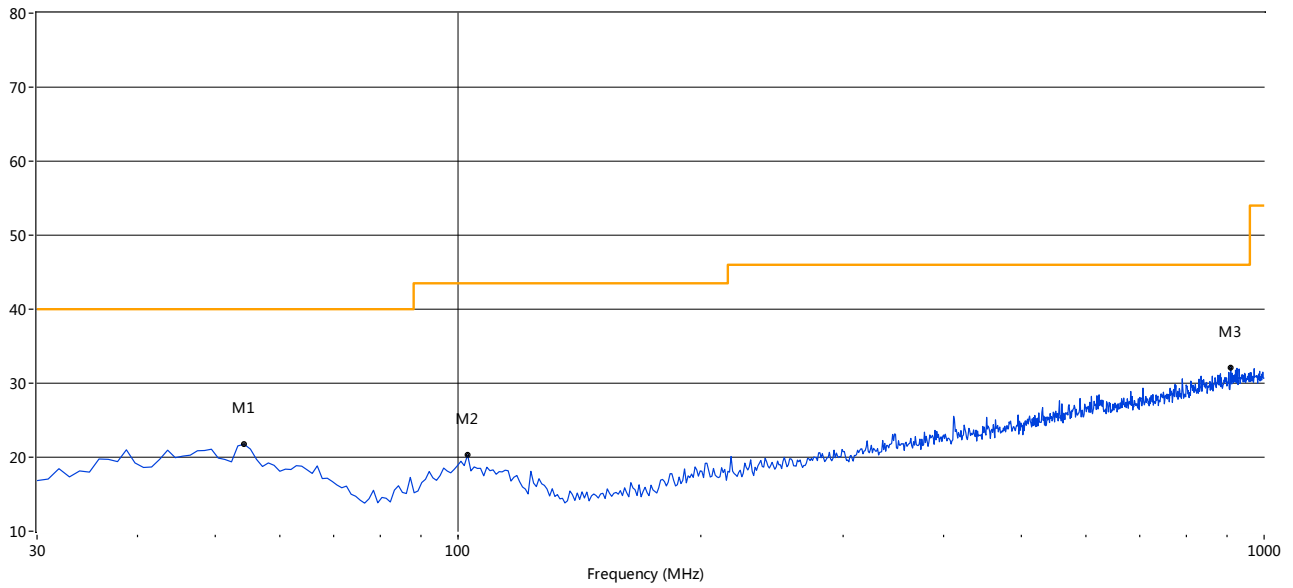
Test Data and Plots

A.1.1 Test Antenna Vertical, 30MHz – 1GHz



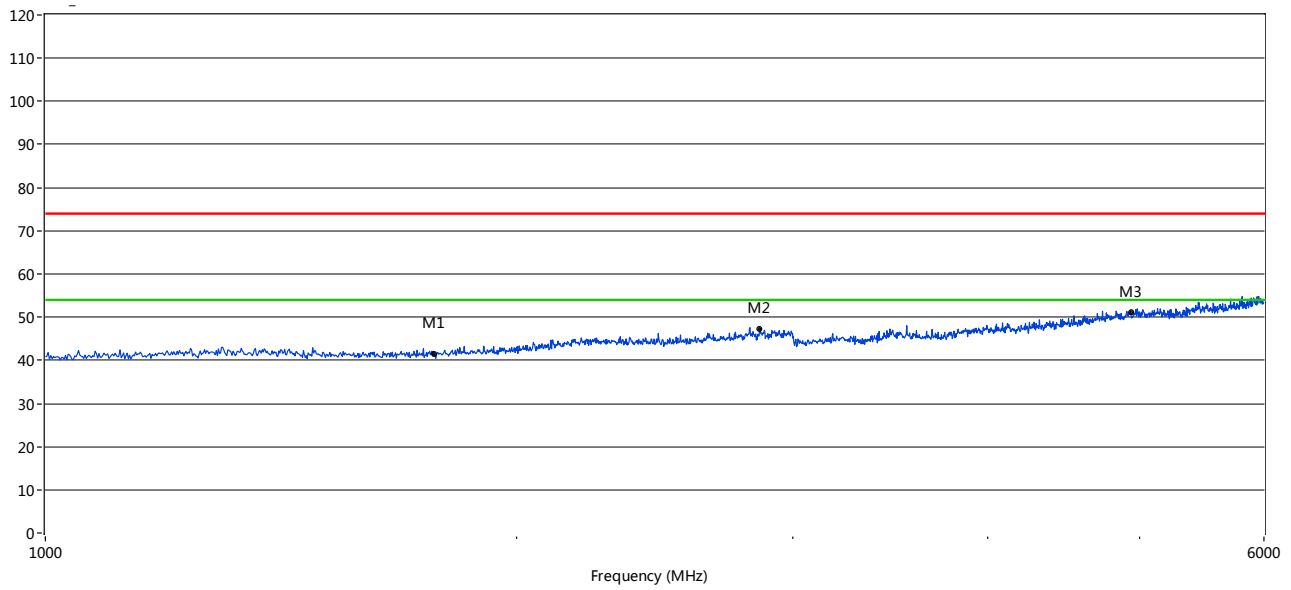
| Frequency (MHz) | Peak Level (dBuV/m) | Q-peak Level (dBuV/m) | Average Level (dBuV/m) | Factor (dB) | PK Limit (dBuV/m) | QP Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Table (o) | Height (cm) | ANT | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|----------|---------|
| 35.81 | 22.68 | | | -20.86 | 40.0 | 40.0 | -- | 17.32 | 97.20 | 100 | Vertical | Pass |
| 116.24 | 21.13 | | | -21.20 | 40.0 | 40.0 | -- | 18.87 | 15.10 | 100 | Vertical | Pass |
| 921.51 | 33.32 | | | -5.73 | 47.0 | 47.0 | -- | 13.68 | 253.90 | 100 | Vertical | Pass |

A.1.2 The Antenna Horizontal , 30MHz – 1GHz



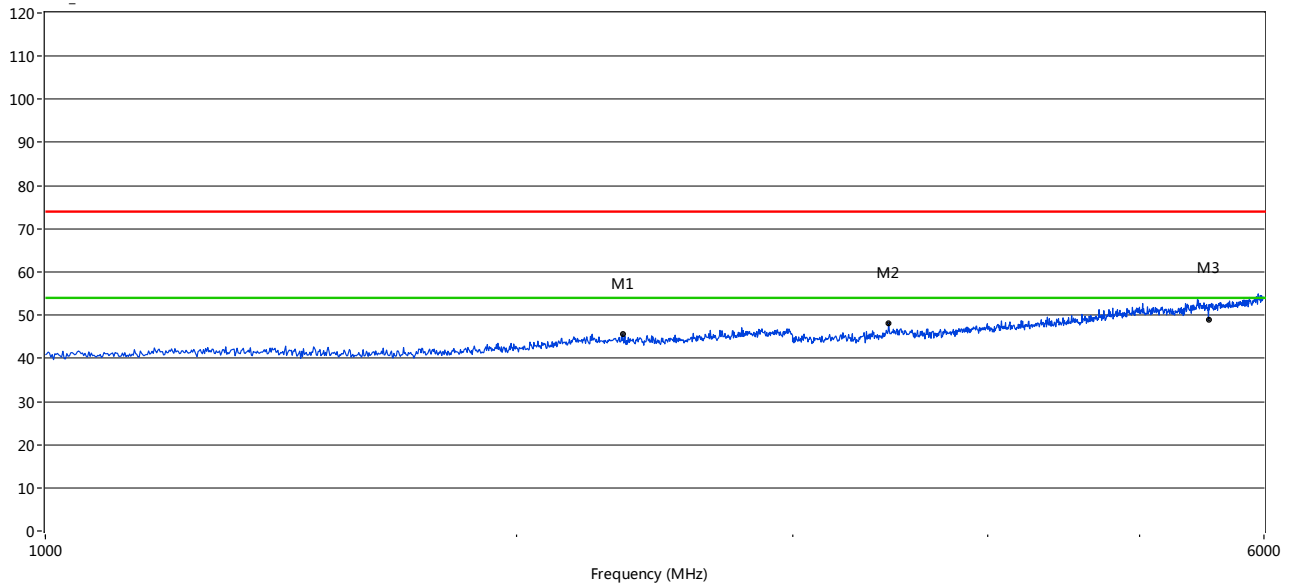
| Frequency (MHz) | Peak Level (dBuV/m) | Q-peak Level (dBuV/m) | Average Level (dBuV/m) | Factor (dB) | PK Limit (dBuV/m) | QP Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Table (o) | Height (cm) | ANT | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|--------------|----------------|------------|---------|
| 54.23 | 21.75 | | | -18.55 | -- | 40.0 | -- | 18.25 | 359.80 | 100 | Horizontal | Pass |
| 102.68 | 20.31 | | | -20.07 | -- | 43.5 | -- | 23.19 | 326.40 | 100 | Horizontal | Pass |
| 908.91 | 32.10 | | | -6.06 | -- | 46.0 | -- | 13.90 | 299.30 | 100 | Horizontal | Pass |

A.1.3 The Antenna Vertical ,1GHz– 6GHz



| Frequency (MHz) | Peak Level (dBuV/m) | Q-peak Level (dBuV/m) | Average Level (dBuV/m) | Factor (dB) | PK Limit (dBuV/m) | QP Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Table (o) | Height (cm) | ANT | Verdict |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|----------|---------|
| 1771.23 | 41.37 | | | -3.83 | 74.0 | -- | 54.0 | 12.63 | 0.40 | 100 | Vertical | Pass |
| 2858.14 | 47.38 | | | 2.38 | 74.0 | -- | 54.0 | 6.62 | 201.80 | 100 | Vertical | Pass |
| 4933.07 | 51.18 | | | 12.49 | 74.0 | -- | 54.0 | 2.82 | 204.60 | 100 | Vertical | Pass |

A.1.4 The Antenna Horizontal , 1GHz– 6GHz

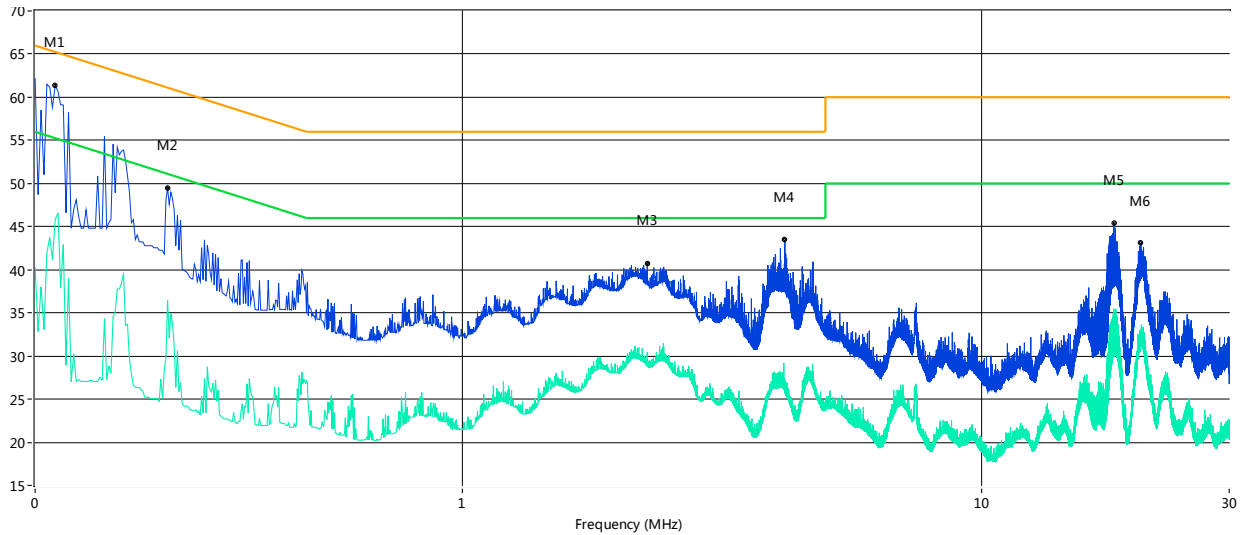


| Frequency (MHz) | Peak Level (dBuV/m) | Q-peak Level (dBuV/m) | Average Level (dBuV/m) | Factor (dB) | PK Limit (dBuV/m) | QP Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Table (o) | Height (cm) | ANT | Verdict |
|--------------------|---------------------------|-----------------------------|------------------------------|----------------|----------------------|----------------------|----------------------|----------------|-----------|----------------|------------|---------|
| 2336.66 | 45.51 | | | -0.64 | 70.0 | -- | 50.0 | 4.49 | -0.00 | 100 | Horizontal | Pass |
| 3455.54 | 48.07 | | | 9.07 | 74.0 | -- | 54.0 | 5.93 | 141.00 | 100 | Horizontal | Pass |
| 5529.87 | 49.00 | -- | 35.49 | 13.42 | 74.0 | -- | 54.0 | 18.51 | 131.00 | 100 | Horizontal | Pass |

A.2 Conducted Emission

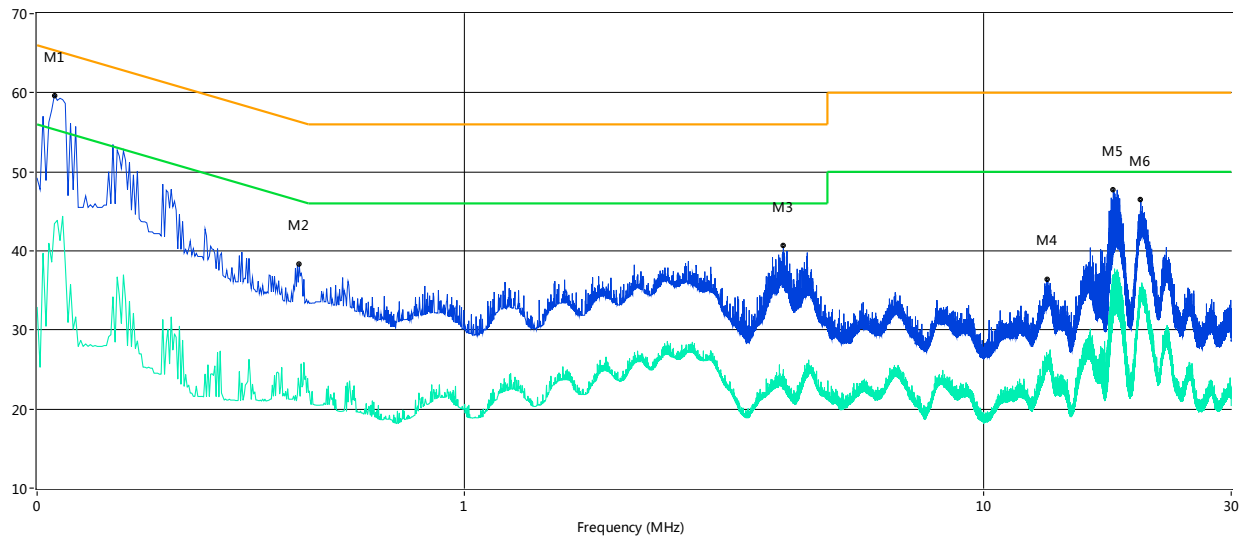
Test Data and Plots

A.2.1 L Phase



| Frequency (MHz) | Peak Level (dBuV) | Q-peak Level (dBuV) | Average Level (dBuV) | Factor (dB) | QP Limit (dBuV) | AV Limit (dBuV) | Margin (dB) | Line | Verdict |
|-----------------|-------------------|---------------------|----------------------|-------------|-----------------|-----------------|-------------|--------|---------|
| 0.16 | 61.4 | -- | 45.9 | 10.00 | 65.6 | 55.6 | 9.70 | L Line | PASS |
| 0.27 | 49.5 | -- | 36.4 | 10.00 | 62.6 | 52.6 | 16.20 | L Line | PASS |
| 2.27 | 40.8 | -- | 30.4 | 10.00 | 56.0 | 46.0 | 15.60 | L Line | PASS |
| 4.18 | 43.5 | -- | 27.2 | 10.00 | 56.0 | 46.0 | 18.80 | L Line | PASS |
| 17.98 | 45.4 | -- | 35.5 | 10.00 | 60.0 | 50.0 | 14.50 | L Line | PASS |
| 20.27 | 43.1 | -- | 32.8 | 10.00 | 60.0 | 50.0 | 17.20 | L Line | PASS |

A.2.2 N Phase



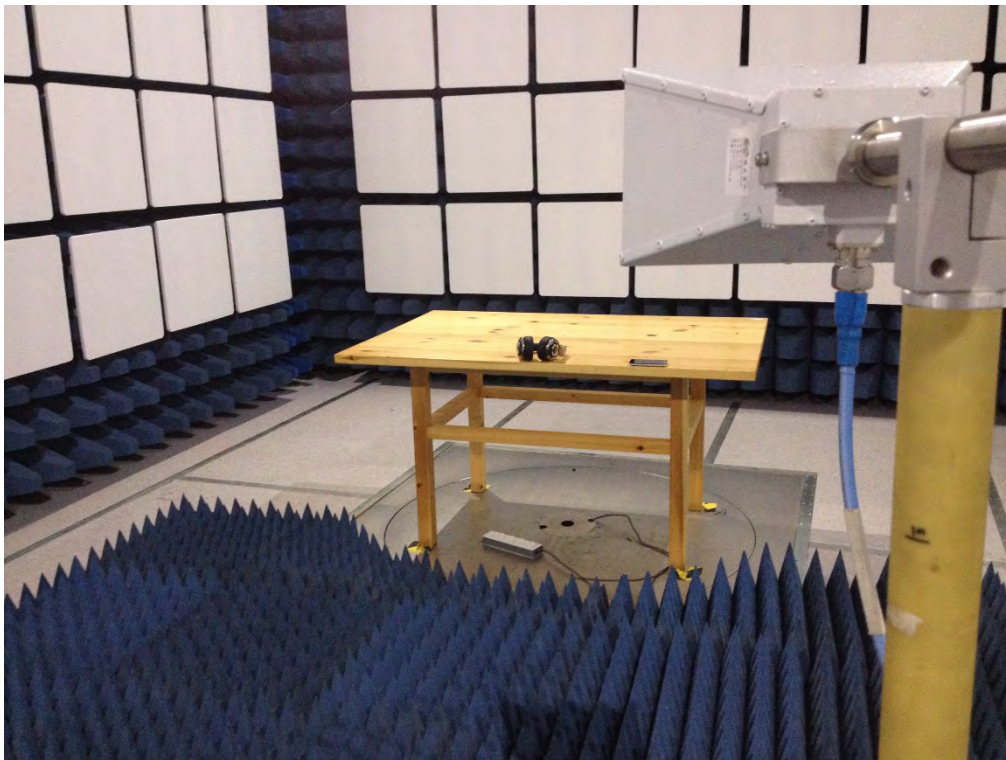
| Frequency (MHz) | Peak Level (dBuV) | Q-peak Level (dBuV) | Average Level (dBuV) | Factor (dB) | QP Limit (dBuV) | AV Limit (dBuV) | Margin (dB) | Line | Verdict |
|-----------------|-------------------|---------------------|----------------------|-------------|-----------------|-----------------|-------------|--------|---------|
| 0.16 | 59.7 | -- | 43.4 | 10.00 | 65.7 | 55.7 | 12.30 | N Line | PASS |
| 0.48 | 38.3 | -- | 22.8 | 10.00 | 56.6 | 46.6 | 23.80 | N Line | PASS |
| 4.11 | 40.6 | -- | 25.0 | 10.00 | 56.0 | 46.0 | 21.00 | N Line | PASS |
| 13.23 | 36.4 | -- | 27.1 | 10.00 | 60.0 | 50.0 | 22.90 | N Line | PASS |
| 17.78 | 47.8 | -- | 36.9 | 10.00 | 60.0 | 50.0 | 13.10 | N Line | PASS |
| 20.09 | 46.4 | -- | 34.0 | 10.00 | 60.0 | 50.0 | 16.00 | N Line | PASS |

ANNEX B TEST SETUP PHOTOS

B.1 Radiated Field Strength Measurement



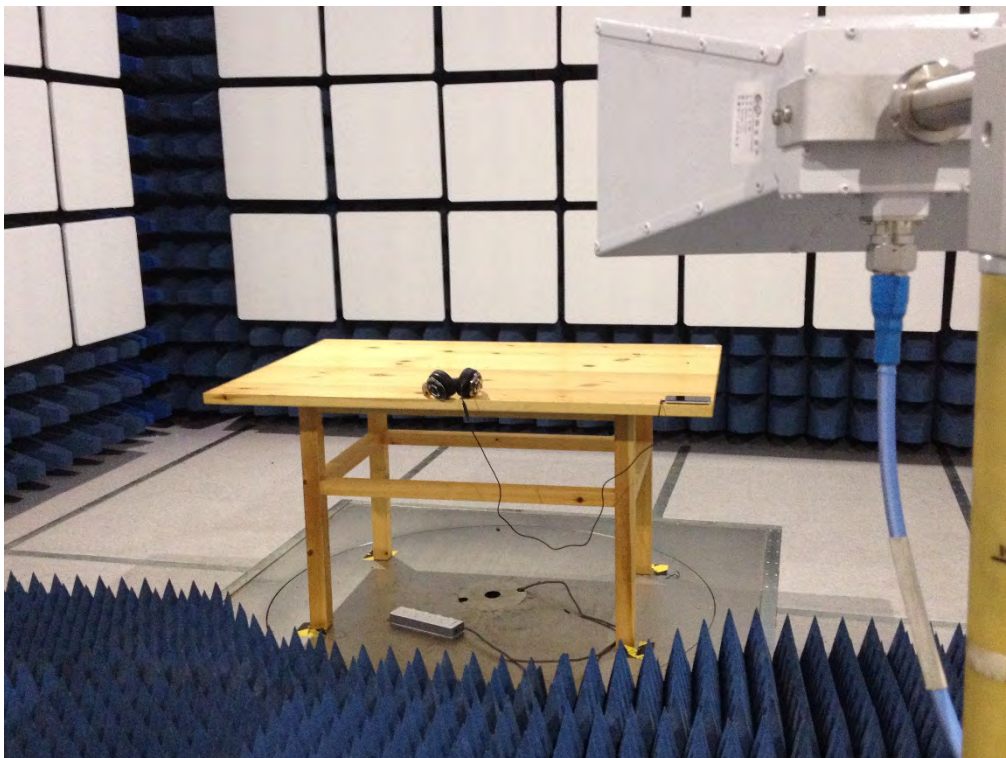
30MHz~1GHz (The Bluetooth Test Mode)



1GHz~6GHz (The Bluetooth Test Mode)



30MHz~1GHz (The Sound Control Line Test Mode)



1GHz~6GHz (The Sound Control Line Test Mode)

B.2 Conducted Emission



ANNEX C EUT PHOTOS

C.1 Appearance of the EUT



THE FRONT OF EUT



THE BACK OF EUT



THE LEFT OF EUT



THE RIGHT OF EUT



THE UP OF EUT



THE DOWN OF EUT



Audio Line



Audio Line (Control)

C.2 Inside of the EUT



OPEN THE EUT PHOTO



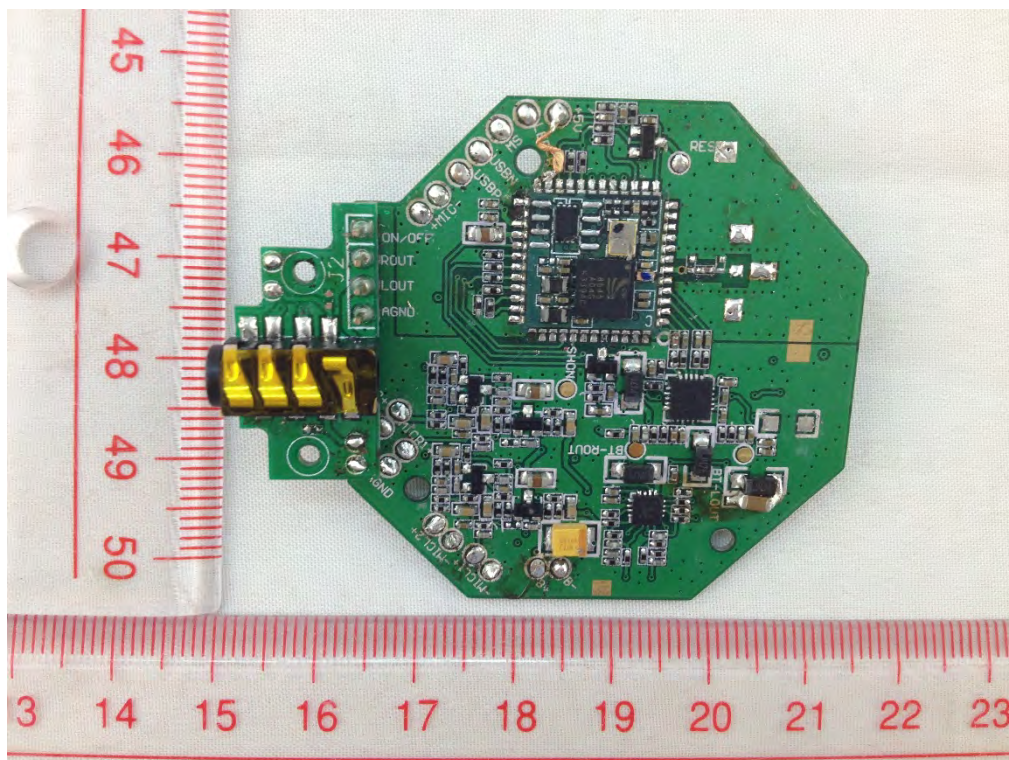
OPEN THE EUT PHOTO 2



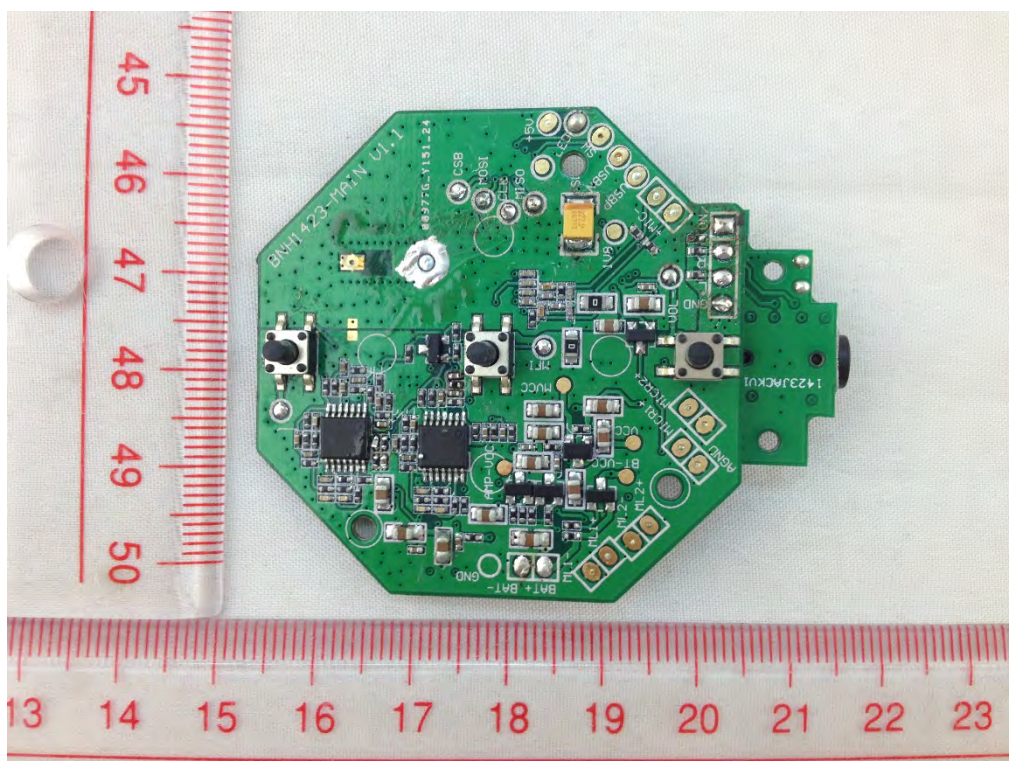
EUT INTERNAL BOARD 1



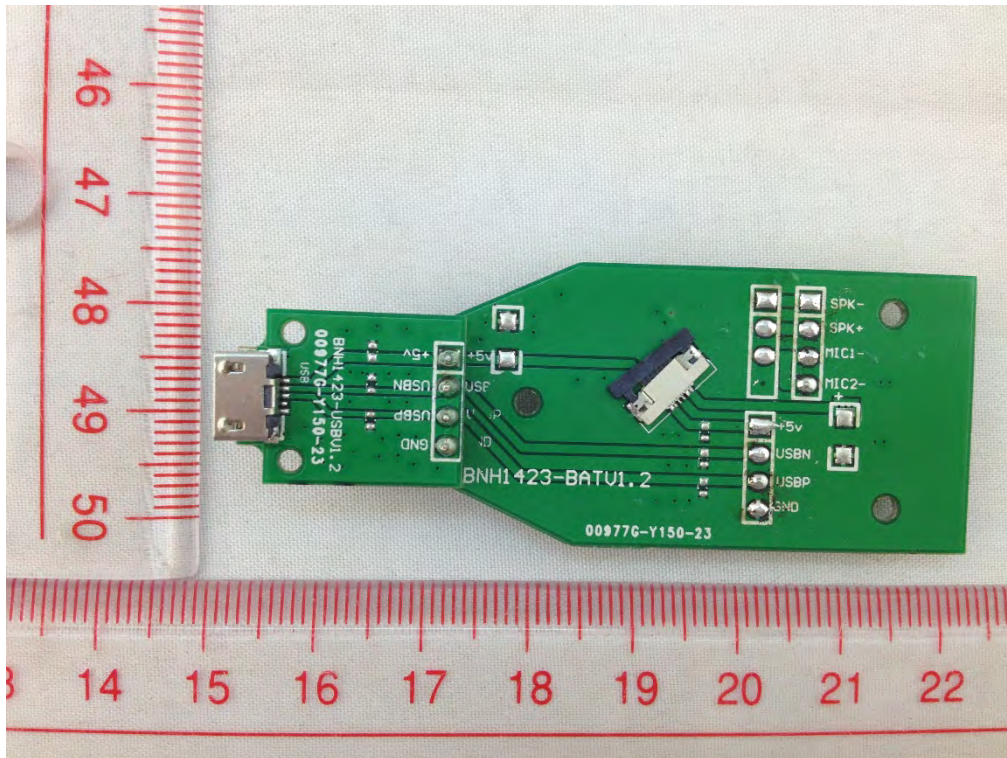
EUT INTERNAL BOARD 2



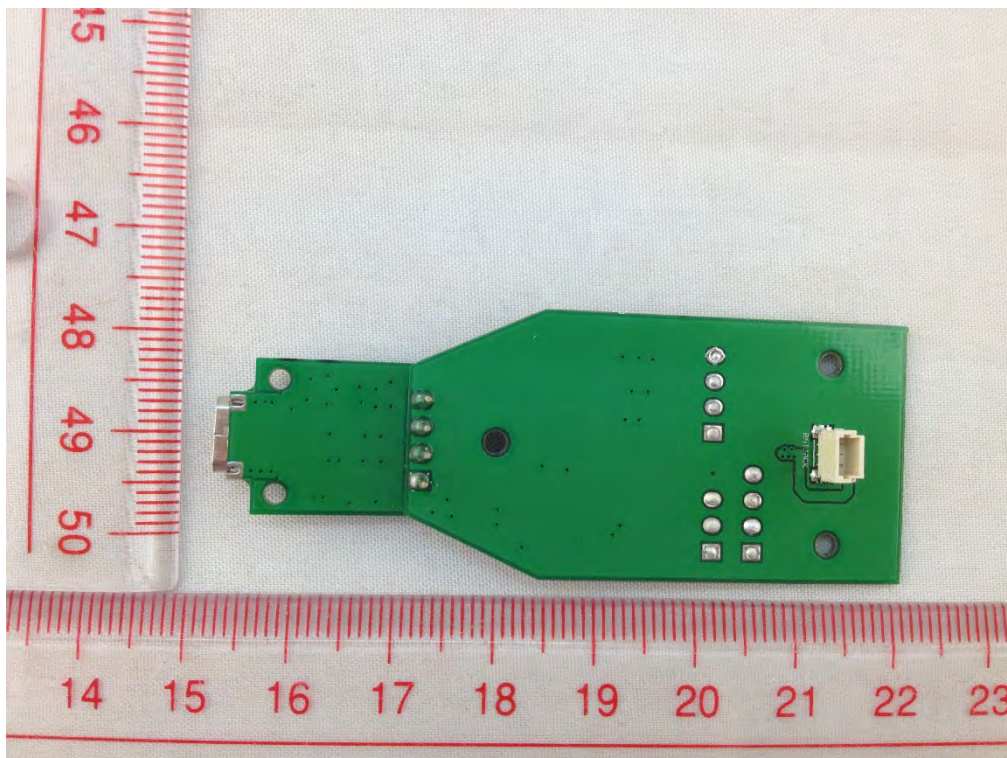
EUT INTERNAL BOARD 3



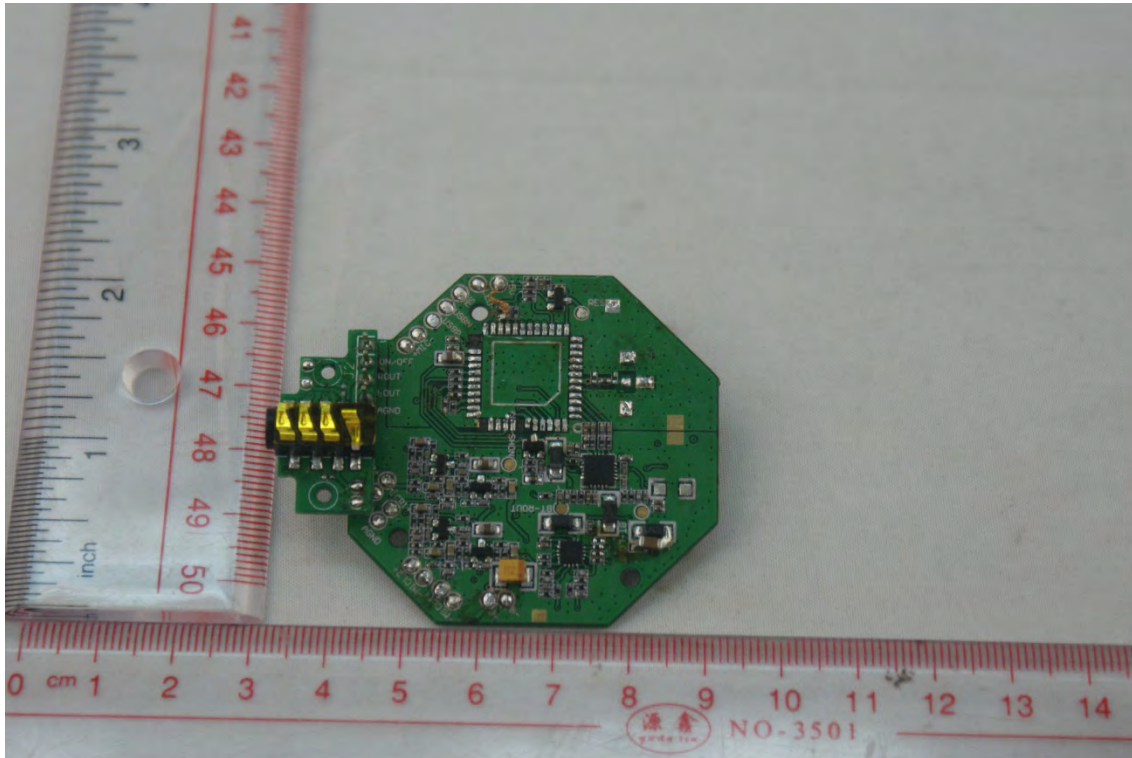
EUT INTERNAL BOARD4



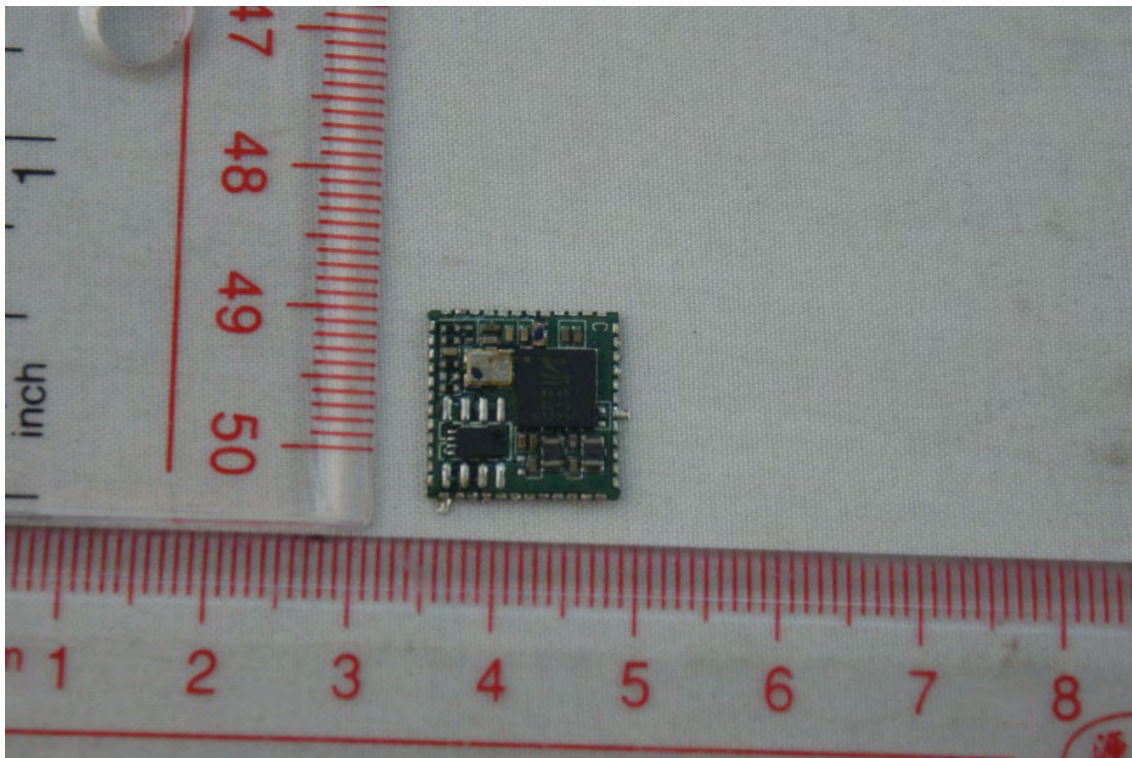
EUT INTERNAL BOARD 5



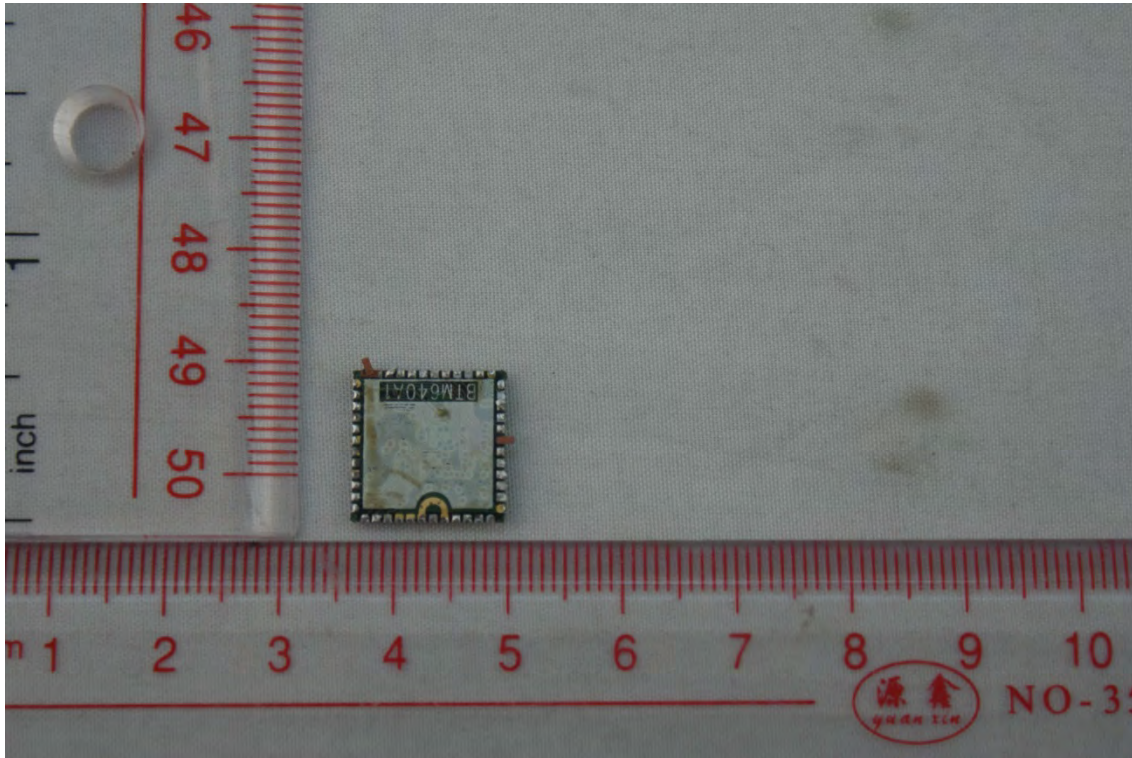
EUT INTERNAL BOARD 6



EUT INTERNAL BOARD 7



EUT INTERNAL BOARD 8



EUT INTERNAL BOARD 9

--END OF REPORT--