

FCC

RF

TEST REPORT

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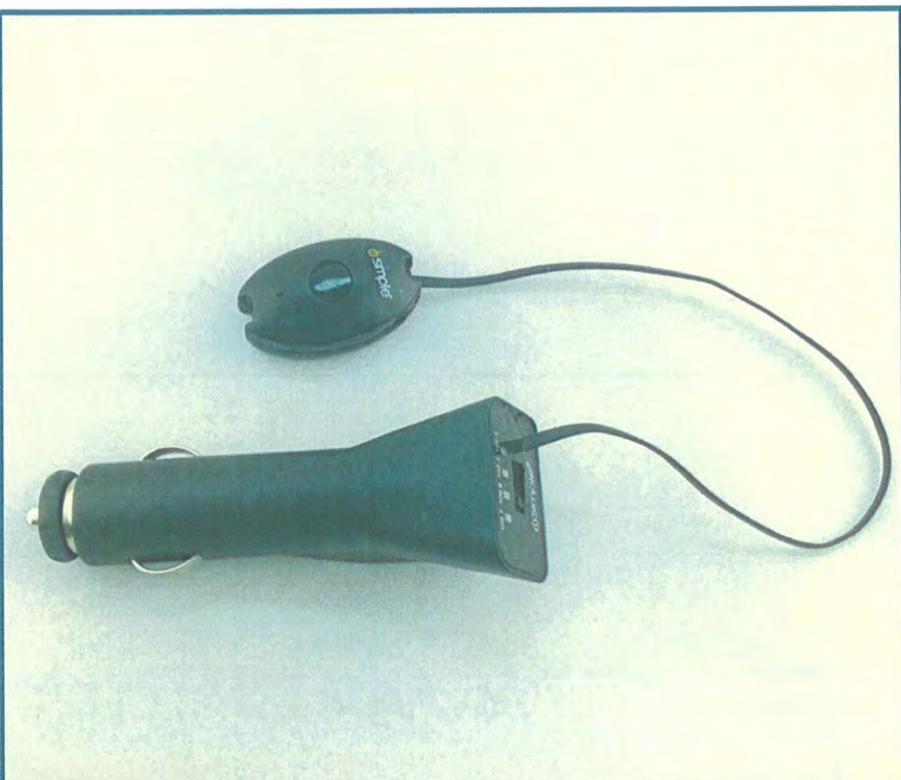
FOR

Bluetooth audio with FM transmitter and charger

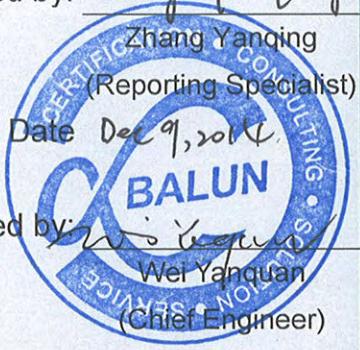
ISSUED TO

AAMP of Florida, dba AAMP of America

13190 56th Court, Suite 401, Clearwater, FL 33760



Prepared by: Zhang Yanqing



Approved by: Wei Yanquan

Report No.: BL-SZ1470121-602
EUT Type: Bluetooth audio with FM transmitter and charger
Model Name: ISBT42
Brand Name: iSimple
Test Standard: 47 CFR Part 15 Subpart C
FCC ID: XBD-ISBT4
Test conclusion: PASS
Test Date: Aug 18, 2014 ~ Aug 28, 2014
Date of Issue: Dec 9, 2014

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Revision History

| Version | Issue Date | Revisions |
|----------------|--------------------|----------------------|
| <u>Rev. 01</u> | <u>Dec 9, 2014</u> | <u>Initial Issue</u> |

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1 ADMINISTRATIVE DATA (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 | The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1. The laboratory has been listed by US Federal Communications Commission to perform electromagnetic emission measurements. The recognition numbers of test site are 832625. 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. 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. |
| 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 | AAMP of Florida, dba AAMP of America |
| Address | 13190 56th Court, Suite 401, Clearwater, FL 33760 |

2.2 Manufacturer

| | |
|--------------|--|
| Manufacturer | Skytech Creations Limited |
| Address | Qiaotou Industrial district, Qiaoli Zone, Changping town, Dongguan |

2.3 General Description for Equipment under Test (EUT)

| | |
|-----------------------------------|--|
| EUT Type | Bluetooth audio with FM transmitter and charger |
| Model Name | ISBT42 |
| Hardware Version | N/A |
| Software Version | N/A |
| Network and Wireless connectivity | FM, BT3.0 |
| About the Product | The equipment is Bluetooth audio receiver with FM transmitter battery, operating at 2.4GHz ISM band and 88MHz to 108MHz band, only FM was tested in this report. |

2.4 Technical Information

| | |
|--------------------|--------------|
| TX Operating Range | 88-108 MHz |
| Modulation Type | FM |
| Antenna Type | Wire Antenna |
| Antenna Gain | 0dBi |

2.5 Ancillary Equipment

| | |
|---------------------|------------|
| Ancillary Equipment | Audio line |
|---------------------|------------|

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

| No. | Identity | Document Title |
|-----|--|--|
| 1 | 47 CFR Part 15, Subpart C (12-30-13 Edition) | Intentional Radiators |
| 3 | ANSI C63.4-2014 | 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 |
| 4 | ANSI C63.10-2013 | American National Standard for Testing Unlicensed Wireless Devices |

3.2 Verdict

| No. | Description | FCC Part No. | Test Result | Verdict |
|-----|---|--------------|-------------|---------|
| 1 | Emissions Bandwidth | 15.239(a) | ANNEX A.1 | PASS |
| 2 | Field Strength of Fundamental Emissions | 15.239(b) | ANNEX A.2 | PASS |
| 3 | Radiated Emissions | 15.209(a) | ANNEX A.3 | PASS |

3.3 Table for Carrier Frequency

| Frequency Band | Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) |
|----------------|-------------|-----------------|-------------|-----------------|
| 106.7~107.3MHz | 1 | 106.7 | 3 | 107.1 |
| | 2 | 106.9 | 4 | 107.3 |

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

| | | | | |
|----------------------------|-------------------------|--|----------------|--|
| Relative Humidity (%) | 45 - 55 | | | |
| Atmospheric Pressure (kPa) | 90 - 96 | | | |
| Temperature | NT (Normal Temperature) | | +22°C to +25°C | |
| Working Voltage of the EUT | NV (Normal Voltage) | | DC 12V | |

4.2 Test Equipment List

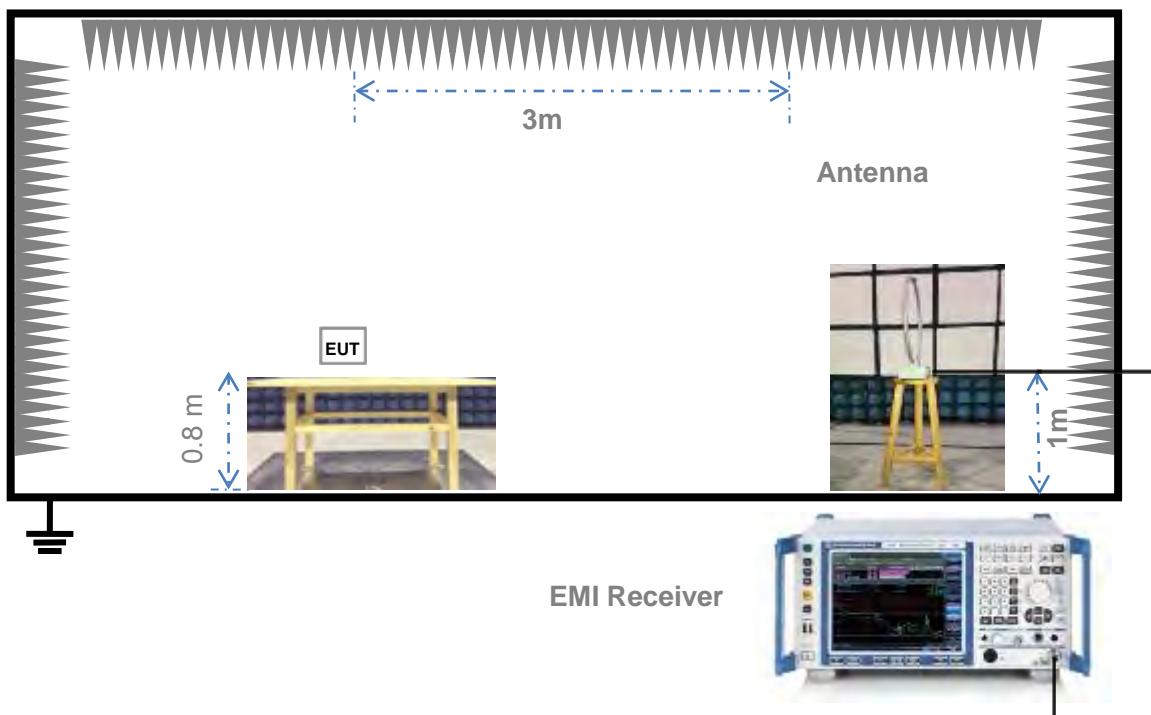
| Description | Manufacturer | Model | Serial No. | Cal. Date | Cal. Due |
|----------------------------------|----------------------|------------|------------|------------|------------|
| Spectrum Analyzer | AGILENT | E4440A | MY45304434 | 2014.07.07 | 2015.07.06 |
| Spectrum Analyzer | ROHDE&SCHWARZ | FSL3 | 103640/003 | 2014.07.07 | 2015.07.06 |
| Bluetooth Tester | ROHDE&SCHWARZ | CBT | 101005 | 2014.07.07 | 2015.07.06 |
| Power Splitter | KMW | DCPD-LDC | 1305003215 | 2014.07.07 | 2015.07.06 |
| Power Sensor | ROHDE&SCHWARZ | NRP-Z21 | 103971 | 2014.07.07 | 2015.07.06 |
| Attenuator (20dB) | KMW | ZA-S1-201 | 110617091 | -- | -- |
| Attenuator (6dB) | KMW | ZA-S1-61 | 1305003189 | -- | -- |
| DC Power Supply | ROHDE&SCHWARZ | HMP2020 | 018141664 | 2014.07.07 | 2015.07.06 |
| Temperature Chamber | ANGELANTIONI SCIENCE | NTH64-40A | 1310 | 2014.07.07 | 2015.07.06 |
| Test Antenna-Loop(9kHz-30MHz) | SCHWARZBECK | FMZB 1519 | 1519-037 | 2013.07.03 | 2015.07.02 |
| Test Antenna-Bi-Log(30MHz-3G Hz) | SCHWARZBECK | VULB 9163 | 9163-624 | 2013.07.02 | 2015.07.01 |
| Test Antenna-Horn(1-18GHz) | SCHWARZBECK | BBHA 9120D | 9120D-1148 | 2013.07.02 | 2015.07.01 |
| Test Antenna-Horn(15-26.5GHz) | SCHWARZBECK | BBHA 9170 | 9170-305 | 2013.07.02 | 2015.07.01 |
| Anechoic Chamber | RAINFORD | 9m*6m*6m | N/A | 2014.10.07 | 2015.10.06 |

4.3 Test Configurations

| Test Configurations (TC) NO. | Description | |
|------------------------------|--------------------|---------------------|
| | Signal Description | Operating Frequency |
| Transmitter | | |
| TC01 | FM | LOW/106.7MHz |
| TC02 | FM | MIDDLE/106.9MHz |
| TC03 | FM | HIGH/107.3MHz |

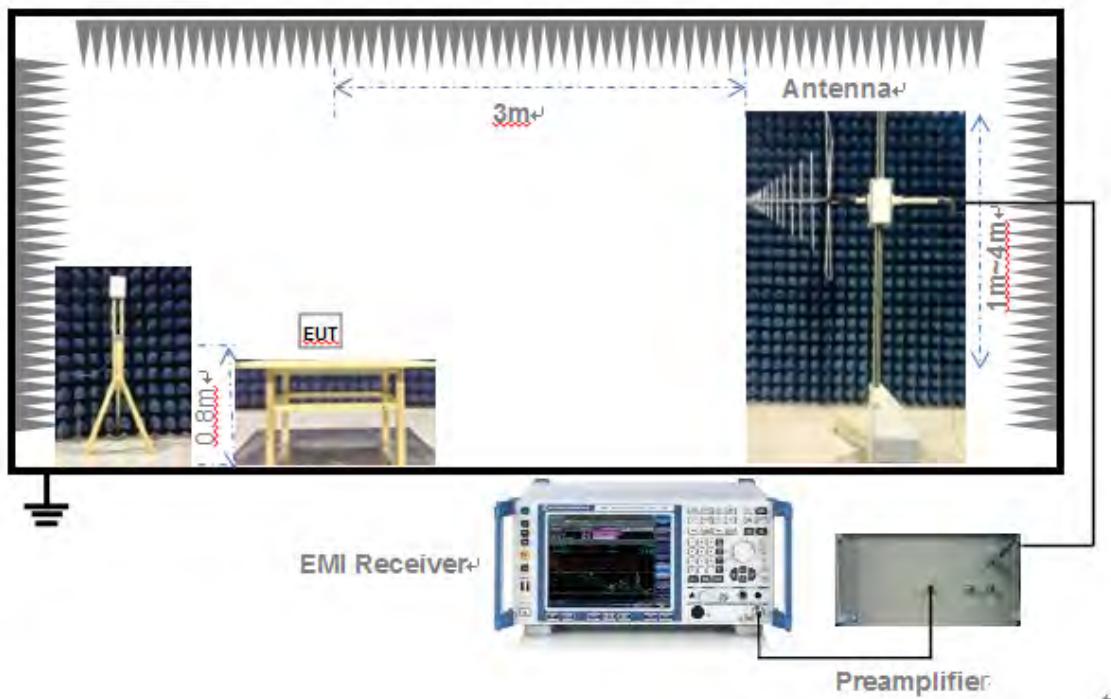
4.4 Description of Test Setup

4.4.1 For Radiated Test (Below 30MHz)



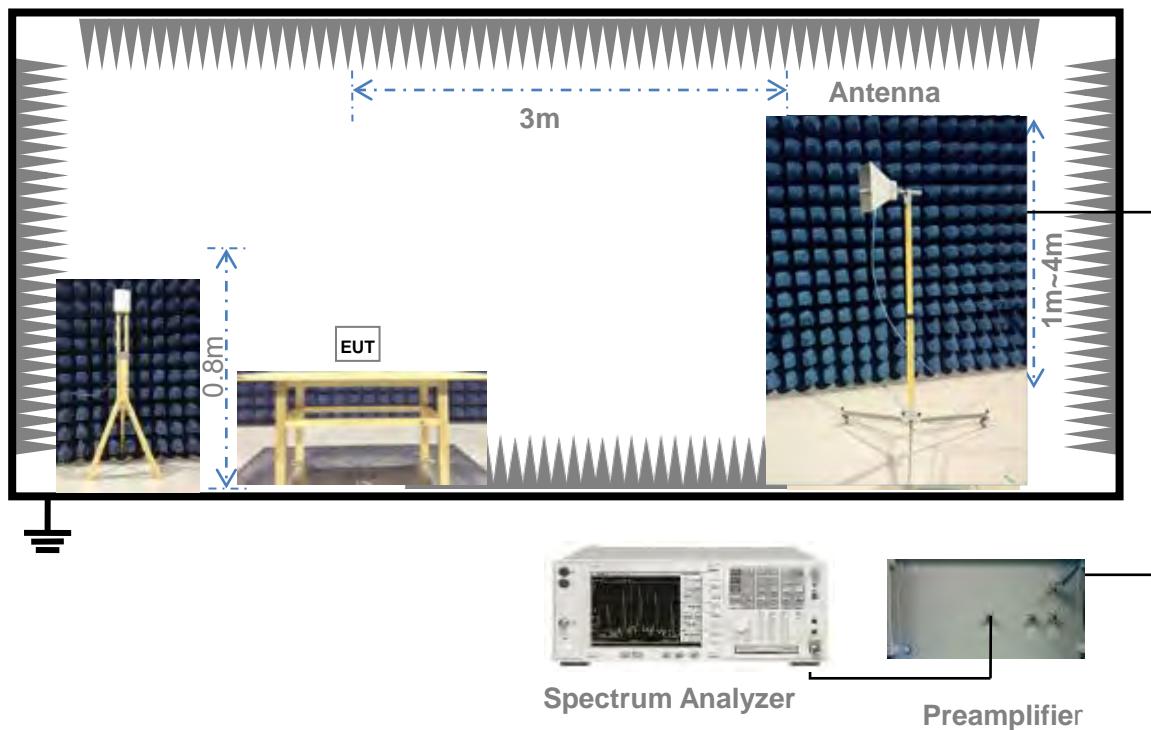
(Diagram 1)

4.4.2 For Radiated Test (30MHz-1GHz)



(Diagram 2)

4.4.3 For Radiated Test (Above 1GHz)



(Diagram 3)

4.5 Test Conditions

| Test Case | Test Conditions | | |
|---|-----------------|--|--------------------------------------|
| | Test Env. | Test Setup ^{Note 1} | Test Configuration ^{Note 2} |
| Field Strength of Fundamental Emissions | NTNV | Test Setup 2 | TC01-TC03 |
| Radiated Emissions | NTNV | Test Setup 1 Test Setup 2 Test Setup 3 | TC01-TC03 |
| Emission Bandwidth | NTNV | Test Setup 2 | TC01-TC03 |

Note:

1. Please refer to section 4.4 for test setup details.
2. Please refer to section 4.3 for test setup details.

5 TEST ITEMS

5.1 Antenna Requirements

5.1.1 Standard Applicable

FCC §15.203 & 15.247(b)

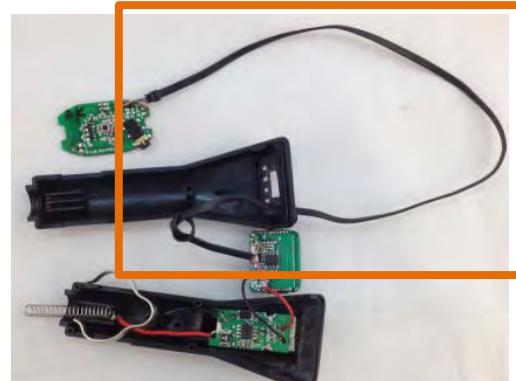
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.

5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

| Protected Method | Description |
|-------------------------------|---|
| The antenna is An embedded-in | The antenna is welded on the mainboard, can't be replaced by the consumer |

| Reference Documents | Item |
|---------------------|--|
| Photo |  |

5.1.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

5.2 Emission Bandwidth

5.2.1 Limit

FCC §15.239

Emissions from the intentional radiator shall be confined within a band 200 kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the frequency range of 88-108 MHz

5.2.2 Test Procedure

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 20 dB bandwidth

RBW \geq 1% of the 20 dB bandwidth

VBW \geq RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.3 Field Strength of Fundamental Emissions and Radiated Emissions

5.3.1 Limit

FCC §15.239 & §15.209

The field strength of any emissions within the permitted 200 kHz band shall not exceed 250 microvolts/meter at 3 meters. The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions

| Frequency Range of Fundamental (MHz) | Field Strength of Fundamental Emission (Average) (uV/m) |
|--------------------------------------|---|
| 88-108 | 250 |

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency (MHz) | Field Strength (μ V/m) |
|-----------------|-----------------------------|
| 0.009 - 0.490 | 2400/F(kHz) |
| 0.490 - 1.705 | 24000/F(kHz) |
| 1.705 - 30.0 | 30 |
| 30 - 88 | 100 |
| 88 - 216 | 150 |
| 216 - 960 | 200 |
| Above 960 | 500 |

Note:

1. Field Strength ($\text{dB}\mu\text{V}/\text{m}$) = $20 \times \log[\text{Field Strength } (\mu\text{V}/\text{m})]$.
2. In the emission tables above, the tighter limit applies at the band edges.
3. For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
4. For above 1000MHz, limit field strength of harmonics: 54dB μ V/m@3m (AV) and 74dB μ V/m@3m (PK).

5.3.2 Test Procedure

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360° , and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented. The power of the EUT transmitting frequency should be ignored.

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.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW \geq RBW

Sweep = auto

Detector function = peak

Trace = max hold

For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

ANNEX A TEST RESULT

A.1 Emission Bandwidth

Test Data

| Channel | Emission Bandwidth (kHz) | Limit (kHz) | Verdict |
|---------|--------------------------|-------------|---------|
| LOW | 53.147 | ≤ 200 | PASS |
| MIDDLE | 53.946 | ≤ 200 | PASS |
| HIGH | 53.347 | ≤ 200 | PASS |

Test plots

LOW Channel



MIDDLE Channel



HIGH Channel



A.2 Field Strength of Fundamental Emissions

Test Data

| Field Strength of Fundamental Emissions Value | | | | | |
|---|----------------------------|----------|-----------------------|----------------|------------|
| Channel | Field Strength (dBuV/m) | Detector | Limit @3m (dBuV/m) | Margin (dB) | Antenna |
| LOW | 42.48 | PEAK | 67.9 | 25.42 | Vertical |
| | 48.52 | PEAK | 67.9 | 19.38 | Horizontal |
| | 40.52 | AVERAGE | 47.9 | 7.38 | Vertical |
| | 43.66 | AVERAGE | 47.9 | 4.24 | Horizontal |
| MIDDLE | 41.27 | PEAK | 67.9 | 26.63 | Vertical |
| | 48.38 | PEAK | 67.9 | 19.52 | Horizontal |
| | 38.59 | AVERAGE | 47.9 | 9.31 | Vertical |
| | 44.03 | AVERAGE | 47.9 | 3.87 | Horizontal |
| HIGH | 41.43 | PEAK | 67.9 | 26.47 | Vertical |
| | 49.28 | PEAK | 67.9 | 18.62 | Horizontal |
| | 37.86 | AVERAGE | 47.9 | 10.04 | Vertical |
| | 43.92 | AVERAGE | 47.9 | 3.98 | Horizontal |

A.3 Radiated Emissions

Note 1: The symbol of “--” in the table which means not application.

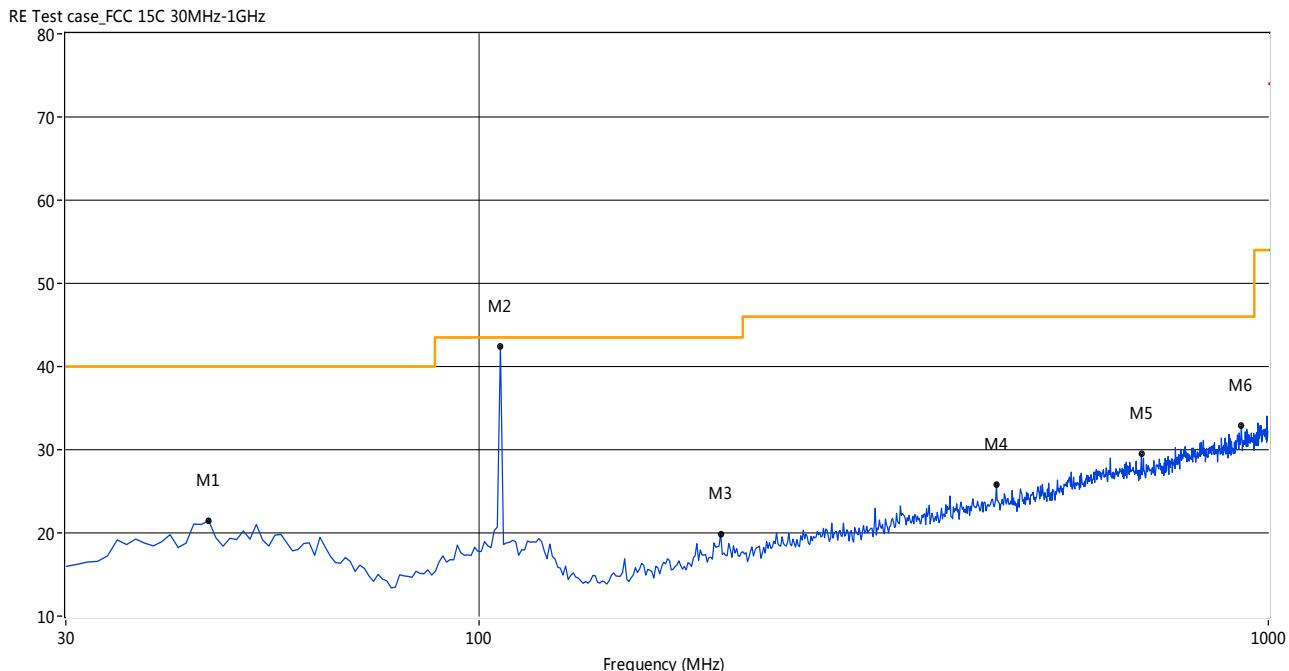
Note 2: For the test data above 1GHz, According the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note 3: The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

Note 4: The marked spikes near 107MHz with circle should be ignored because they are Fundamental signal.

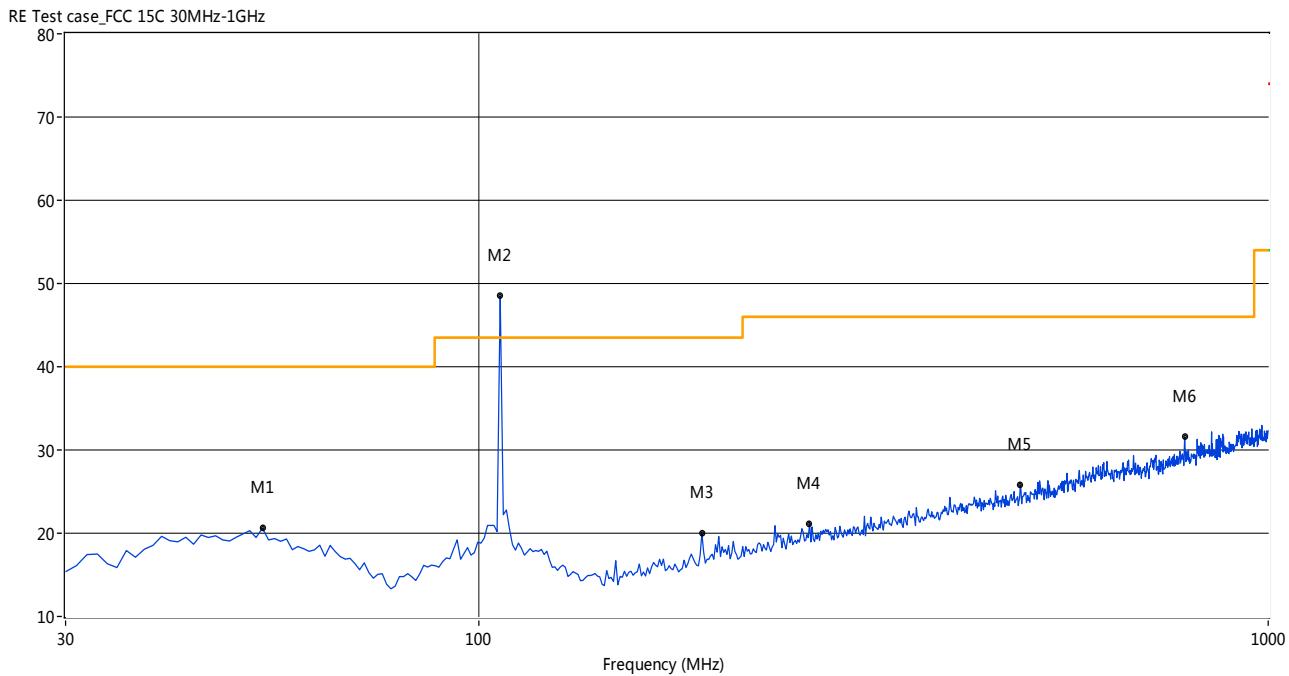
Test Data and Plots(30MHz ~ 10th Harmonic)

LOW Channl, 30MHz to 1GHz, ANT V



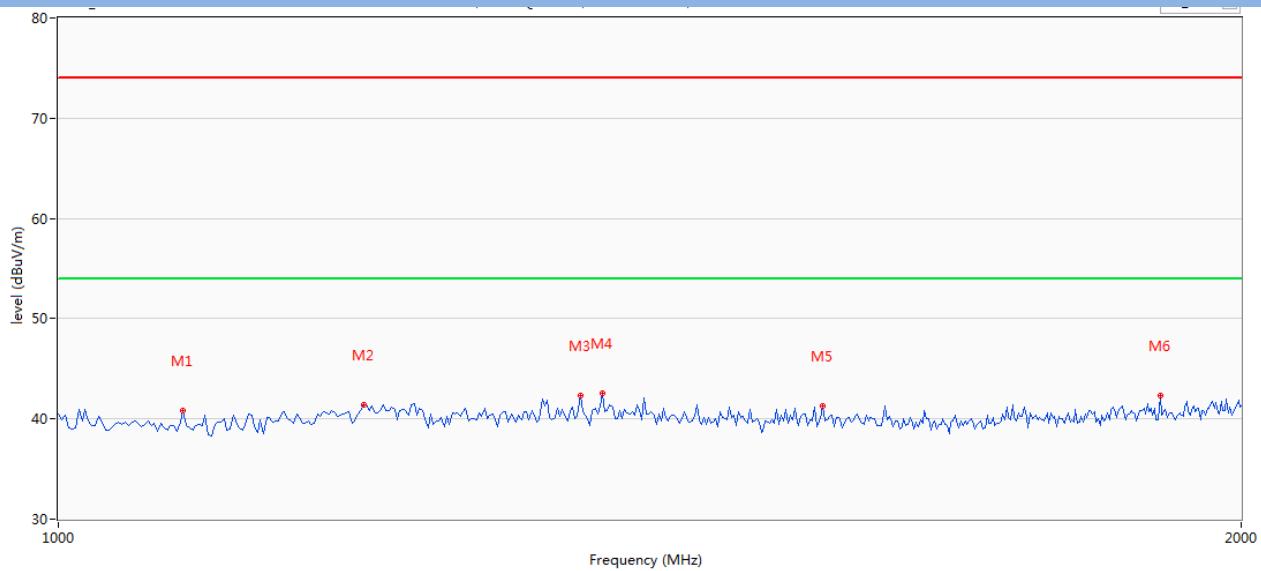
| Frequency (MHz) | Peak Level (dBuV/m) | Q-peak Level (dBuV/m) | Average Level (dBuV/m) | Factor (dB) | PK Limit (dBuV/m) | QP Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Table (o) | Height (cm) | ANT | Verdict |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|----------|---------|
| 45.50 | 21.48 | -- | -- | -18.11 | -- | 40.0 | -- | 18.52 | 152.20 | 100 | Vertical | PASS |
| 106.70 | 42.48 | -- | 40.52 | -19.62 | 67.9 | -- | 47.9 | 7.38 | 246.80 | 100 | Vertical | PASS |
| 202.49 | 19.87 | -- | -- | -19.83 | -- | 43.5 | -- | 23.63 | 251.70 | 100 | Vertical | PASS |
| 452.50 | 25.86 | -- | -- | -13.73 | -- | 46.0 | -- | 20.14 | 0.60 | 100 | Vertical | PASS |
| 690.88 | 29.46 | -- | -- | -9.07 | -- | 46.0 | -- | 16.54 | 125.70 | 100 | Vertical | PASS |
| 924.42 | 32.89 | -- | -- | -4.75 | -- | 46.0 | -- | 13.11 | -0.00 | 100 | Vertical | PASS |

LOW Channl, 30MHz to 1GHz, ANT H



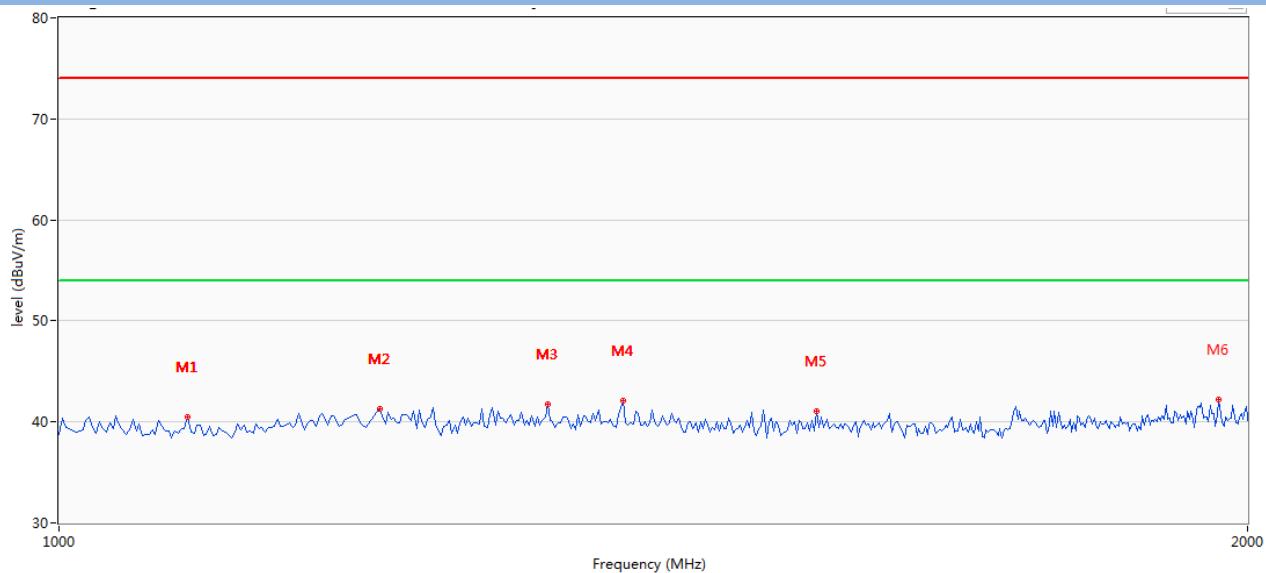
| Frequency (MHz) | Peak Level (dBuV/m) | Q-peak Level (dBuV/m) | Average Level (dBuV/m) | Factor (dB) | PK Limit (dBuV/m) | QP Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Table (o) | Height (cm) | ANT | Verdict |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|------------|---------|
| 53.26 | 20.59 | -- | -- | -18.11 | -- | 40.0 | -- | 19.41 | 247.50 | 100 | Horizontal | PASS |
| 106.70 | 48.52 | -- | 43.66 | -19.65 | 67.9 | -- | 47.9 | -4.24 | 360.00 | 100 | Horizontal | PASS |
| 191.83 | 20.01 | -- | -- | -20.51 | -- | 43.5 | -- | 23.49 | 357.40 | 100 | Horizontal | PASS |
| 262.57 | 21.14 | -- | -- | -18.22 | -- | 46.0 | -- | 24.86 | 287.40 | 100 | Horizontal | PASS |
| 485.44 | 25.79 | -- | -- | -13.22 | -- | 46.0 | -- | 20.21 | 165.30 | 100 | Horizontal | PASS |
| 783.91 | 31.54 | -- | -- | -7.12 | -- | 46.0 | -- | 14.46 | 51.10 | 100 | Horizontal | PASS |

LOW Channl, 1GHz to 2GHz, ANT V



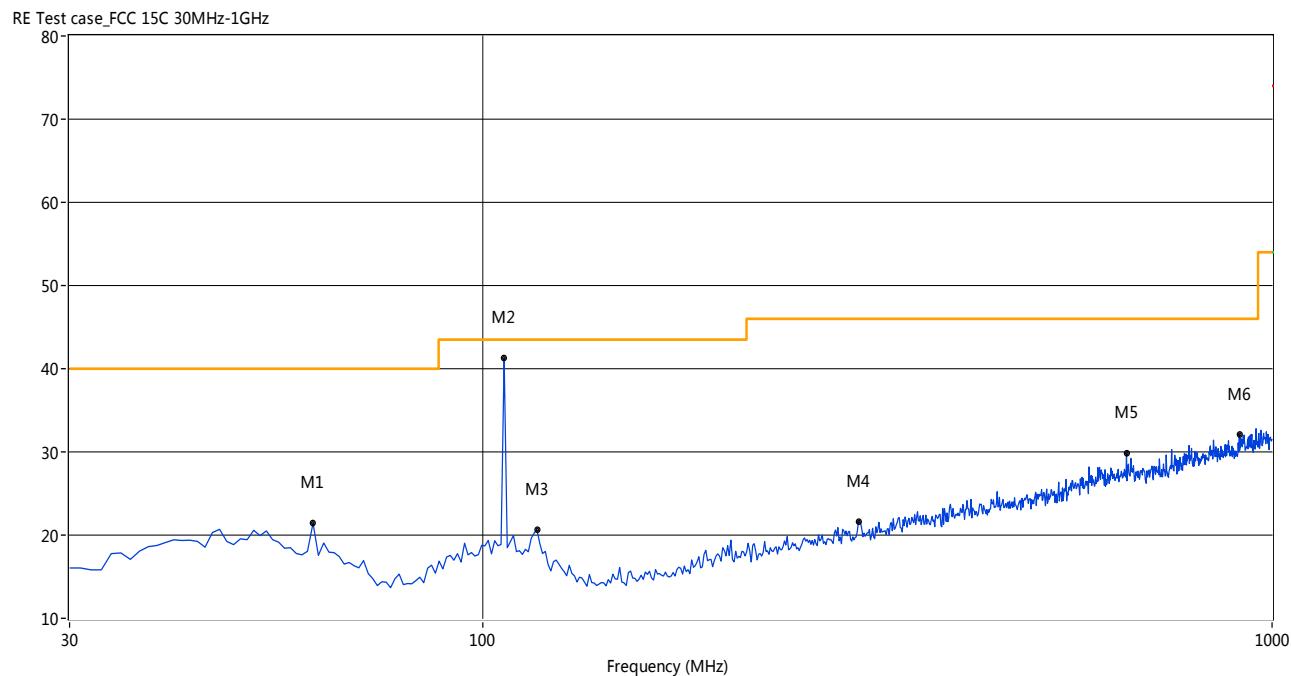
| Frequency (MHz) | Peak Level (dBuV/m) | Q-peak Level (dBuV/m) | Average Level (dBuV/m) | Factor (dB) | PK Limit (dBuV/m) | QP Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Table (o) | Height (cm) | ANT | Verdict |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|----------|---------|
| 1075.92 | 40.81 | | | -5.07 | 74.0 | -- | 54.0 | 13.19 | 219.90 | 100 | Vertical | PASS |
| 1195.80 | 41.40 | | | -4.28 | 74.0 | -- | 54.0 | 12.60 | 360.00 | 100 | Vertical | PASS |
| 1357.64 | 42.32 | | | -4.18 | 74.0 | -- | 54.0 | 11.68 | 309.10 | 100 | Vertical | PASS |
| 1375.62 | 42.52 | | | -4.20 | 74.0 | -- | 54.0 | 11.48 | 360.00 | 100 | Vertical | PASS |
| 1565.43 | 41.27 | | | -4.43 | 74.0 | -- | 54.0 | 12.73 | 336.80 | 100 | Vertical | PASS |
| 1907.09 | 42.32 | | | -3.13 | 74.0 | -- | 54.0 | 11.68 | 302.50 | 100 | Vertical | PASS |

LOW Channal, 1GHz to 2GHz, ANT H



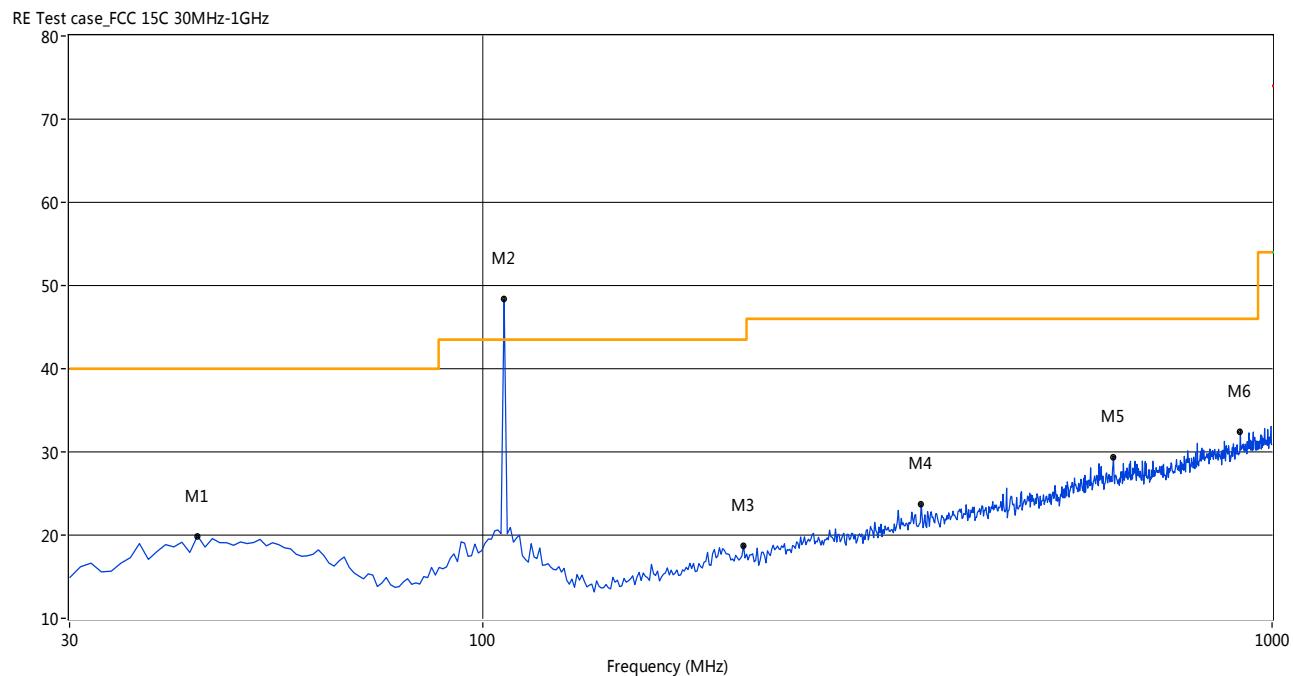
| Frequency (MHz) | Peak Level (dBuV/m) | Q-peak Level (dBuV/m) | Average Level (dBuV/m) | Factor (dB) | PK Limit (dBuV/m) | QP Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Table (o) | Height (cm) | ANT | Verdict |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|------------|---------|
| 1077.92 | 40.44 | | | -5.06 | 74.0 | -- | 54.0 | 13.56 | 178.70 | 100 | Horizontal | PASS |
| 1205.79 | 41.27 | | | -4.06 | 74.0 | -- | 54.0 | 12.73 | 247.20 | 100 | Horizontal | PASS |
| 1329.67 | 41.80 | | | -4.10 | 74.0 | -- | 54.0 | 12.20 | 295.90 | 100 | Horizontal | PASS |
| 1389.61 | 42.05 | | | -4.32 | 74.0 | -- | 54.0 | 11.95 | 344.20 | 100 | Horizontal | PASS |
| 1555.44 | 41.07 | | | -4.40 | 74.0 | -- | 54.0 | 12.93 | 192.70 | 100 | Horizontal | PASS |
| 1967.03 | 42.22 | | | -2.90 | 74.0 | -- | 54.0 | 11.78 | 254.20 | 100 | Horizontal | PASS |

MIDDLE Channal, 30MHz to 1GHz, ANT V



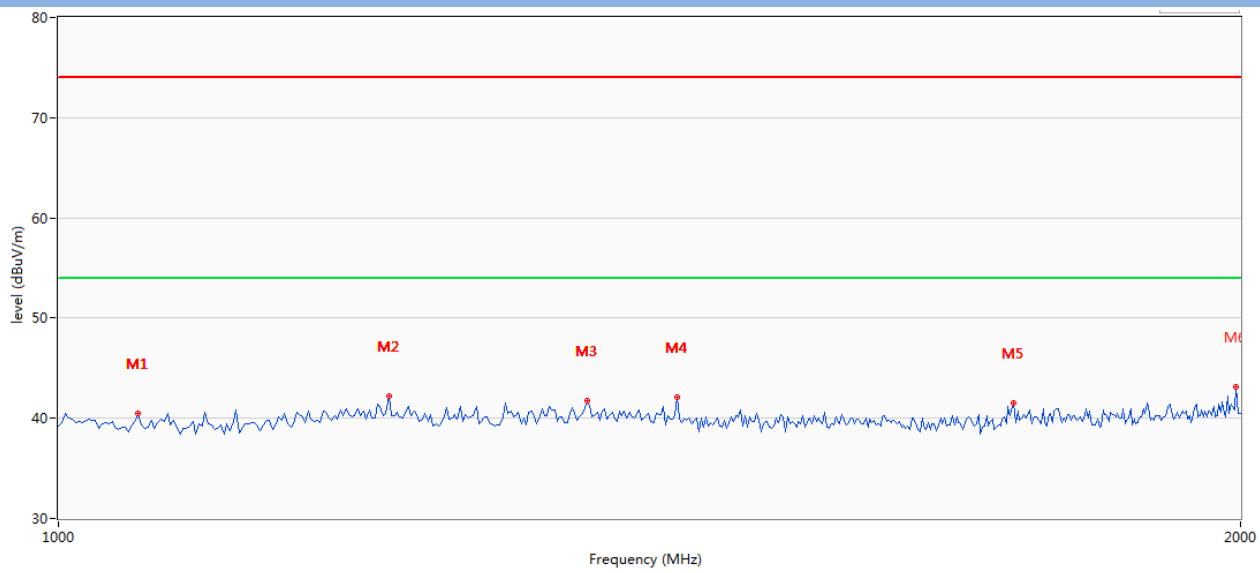
| Frequency (MHz) | Peak Level (dBuV/m) | Q-peak Level (dBuV/m) | Average Level (dBuV/m) | Factor (dB) | PK Limit (dBuV/m) | QP Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Table (o) | Height (cm) | ANT | Verdict |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|----------|---------|
| 61.01 | -- | 21.44 | -- | -19.67 | -- | 40.0 | -- | 18.56 | 184.40 | 100 | Vertical | PASS |
| 106.90 | 41.27 | -- | 38.59 | -19.74 | 67.9 | 43.5 | 47.9 | 9.31 | 86.90 | 100 | Vertical | PASS |
| 117.21 | -- | 20.65 | -- | -20.86 | -- | 43.5 | -- | 22.85 | 148.80 | 100 | Vertical | PASS |
| 299.39 | -- | 21.62 | -- | -17.30 | -- | 46.0 | -- | 24.38 | 28.10 | 100 | Vertical | PASS |
| 654.06 | -- | 29.82 | -- | -9.43 | -- | 46.0 | -- | 16.18 | 2.20 | 100 | Vertical | PASS |
| 908.91 | -- | 32.16 | -- | -5.03 | -- | 46.0 | -- | 13.84 | 357.70 | 100 | Vertical | PASS |

MIDDLE Channal, 30MHz to 1GHz, ANT H



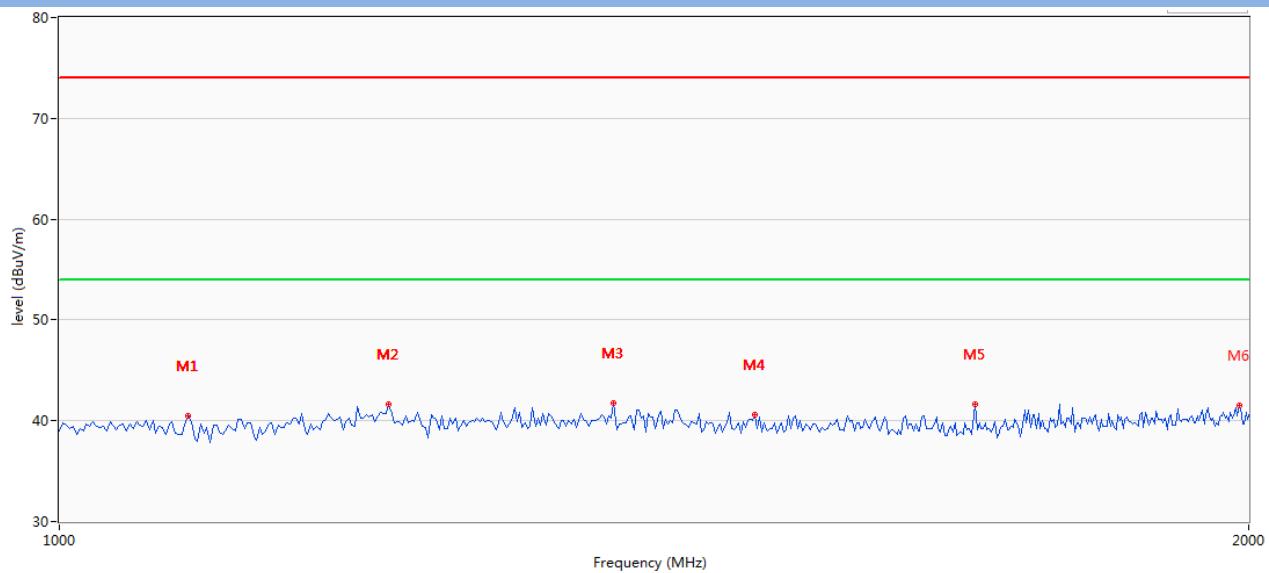
| Frequency (MHz) | Peak Level (dBuV/m) | Q-peak Level (dBuV/m) | Average Level (dBuV/m) | Factor (dB) | PK Limit (dBuV/m) | QP Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Table (o) | Height (cm) | ANT | Verdict |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|------------|---------|
| 43.57 | -- | 19.90 | -- | -18.24 | -- | 40.0 | -- | 20.10 | 359.90 | 100 | Horizontal | PASS |
| 106.90 | 48.38 | -- | 44.03 | -19.78 | 67.9 | -- | 47.9 | -3.87 | 4.20 | 100 | Horizontal | PASS |
| 214.12 | -- | 18.74 | -- | -19.76 | -- | 43.5 | -- | 24.76 | 355.00 | 100 | Horizontal | PASS |
| 359.47 | -- | 23.76 | -- | -15.59 | -- | 46.0 | -- | 22.24 | 46.20 | 100 | Horizontal | PASS |
| 629.83 | -- | 29.42 | -- | -9.78 | -- | 46.0 | -- | 16.58 | 360.00 | 100 | Horizontal | PASS |
| 911.82 | -- | 32.43 | -- | -4.94 | -- | 46.0 | -- | 13.57 | 359.90 | 100 | Horizontal | PASS |

MIDDLE Channal, 1GHz to 2GHz, ANT V



| 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 |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|----------|---------|
| 1047.95 | 40.47 | | | -5.17 | 74.0 | -- | 54.0 | 13.53 | 261.50 | 100 | Vertical | PASS |
| 1213.79 | 42.17 | | | -4.12 | 74.0 | -- | 54.0 | 11.83 | 179.10 | 100 | Vertical | PASS |
| 1363.64 | 41.76 | | | -4.10 | 74.0 | -- | 54.0 | 12.24 | 13.50 | 100 | Vertical | PASS |
| 1437.56 | 42.10 | | | -4.13 | 74.0 | -- | 54.0 | 11.90 | 75.80 | 100 | Vertical | PASS |
| 1751.25 | 41.54 | | | -3.72 | 74.0 | -- | 54.0 | 12.46 | 96.40 | 100 | Vertical | PASS |
| 1995.01 | 43.17 | | | -2.89 | 74.0 | -- | 54.0 | 10.83 | 75.80 | 100 | Vertical | PASS |

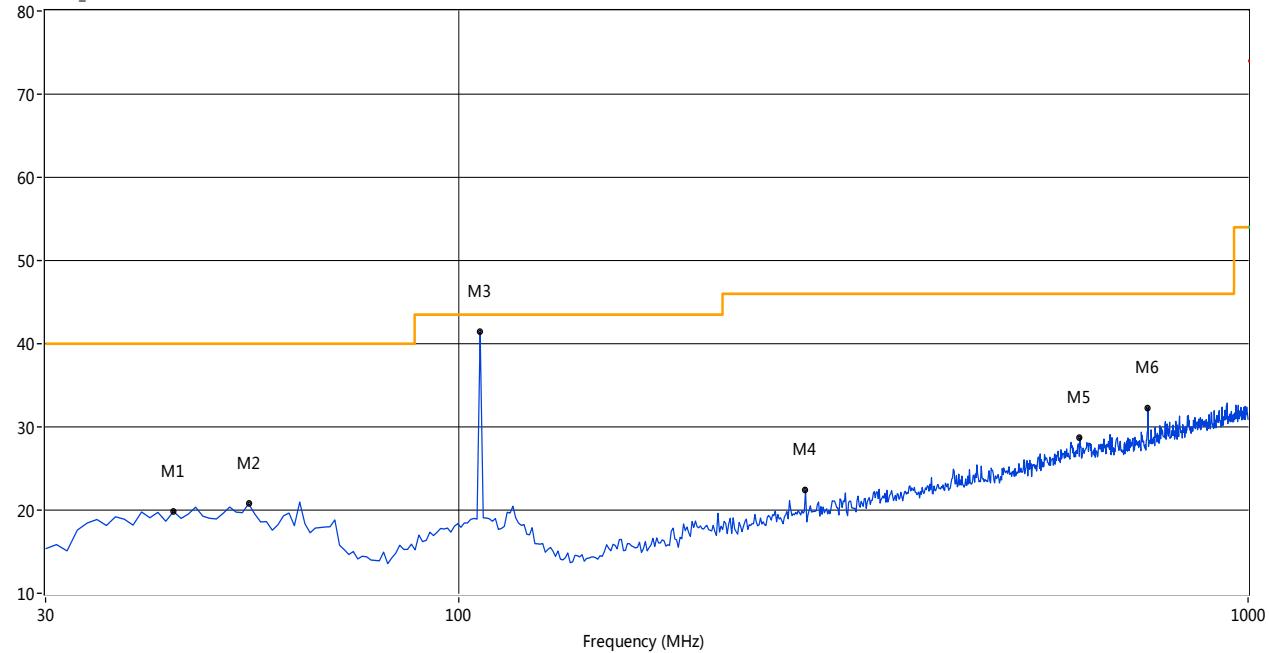
MIDDLE Chananl, 1GHz to 2GHz, ANT H



| 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 |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|------------|---------|
| 1077.92 | 40.52 | | | -5.06 | 74.0 | -- | 54.0 | 13.48 | 263.30 | 100 | Horizontal | PASS |
| 1211.79 | 41.66 | | | -4.11 | 74.0 | -- | 54.0 | 12.34 | 222.10 | 100 | Horizontal | PASS |
| 1381.62 | 41.70 | | | -4.33 | 74.0 | -- | 54.0 | 12.30 | 311.80 | 100 | Horizontal | PASS |
| 1499.50 | 40.61 | | | -4.32 | 74.0 | -- | 54.0 | 13.39 | -0.00 | 100 | Horizontal | PASS |
| 1705.30 | 41.60 | | | -4.05 | 74.0 | -- | 54.0 | 12.40 | 277.00 | 100 | Horizontal | PASS |
| 1989.01 | 41.49 | | | -2.76 | 74.0 | -- | 54.0 | 12.51 | 4.80 | 100 | Horizontal | PASS |

HIGH Chananl, 30MHz to 1GHz, ANT V

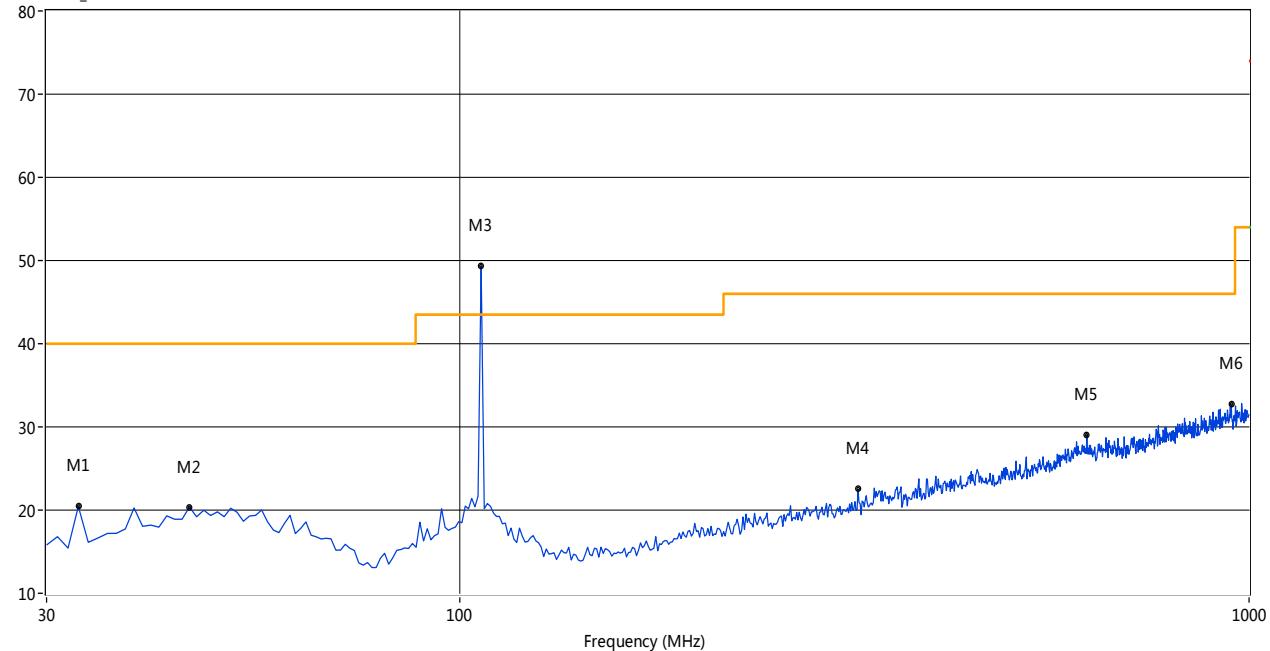
RE Test case_FCC 15C 30MHz-1GHz



| 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 |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|----------|---------|
| 43.57 | -- | 19.84 | -- | -18.24 | -- | 40.0 | -- | 20.16 | 299.20 | 100 | Vertical | PASS |
| 54.23 | -- | 20.75 | -- | -18.19 | -- | 40.0 | -- | 19.25 | 360.00 | 100 | Vertical | PASS |
| 107.30 | 41.43 | -- | 37.86 | -19.87 | 67.9 | -- | 47.9 | 10.04 | 92.80 | 100 | Vertical | PASS |
| 275.16 | -- | 22.35 | -- | -17.88 | -- | 46.0 | -- | 23.65 | 249.00 | 100 | Vertical | PASS |
| 612.39 | -- | 28.70 | -- | -10.08 | -- | 46.0 | -- | 17.30 | 360.00 | 100 | Vertical | PASS |
| 747.08 | -- | 32.26 | -- | -8.09 | -- | 46.0 | -- | 13.74 | 87.60 | 100 | Vertical | PASS |

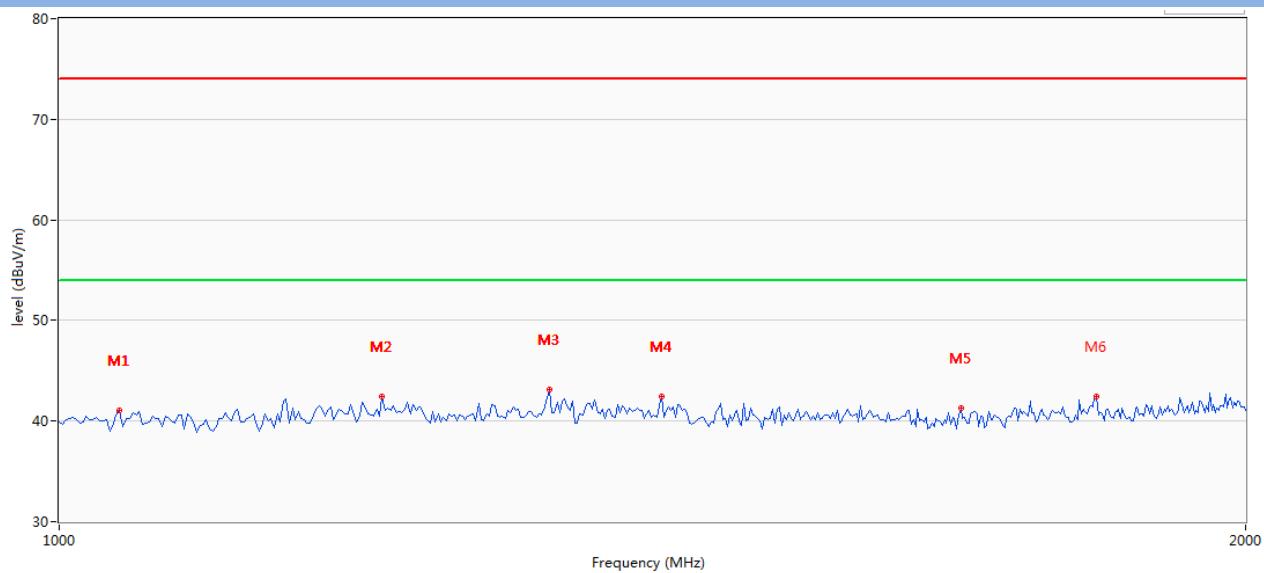
HIGH Chananl, 30MHz to 1GHz, ANT H

RE Test case_FCC 15C 30MHz-1GHz



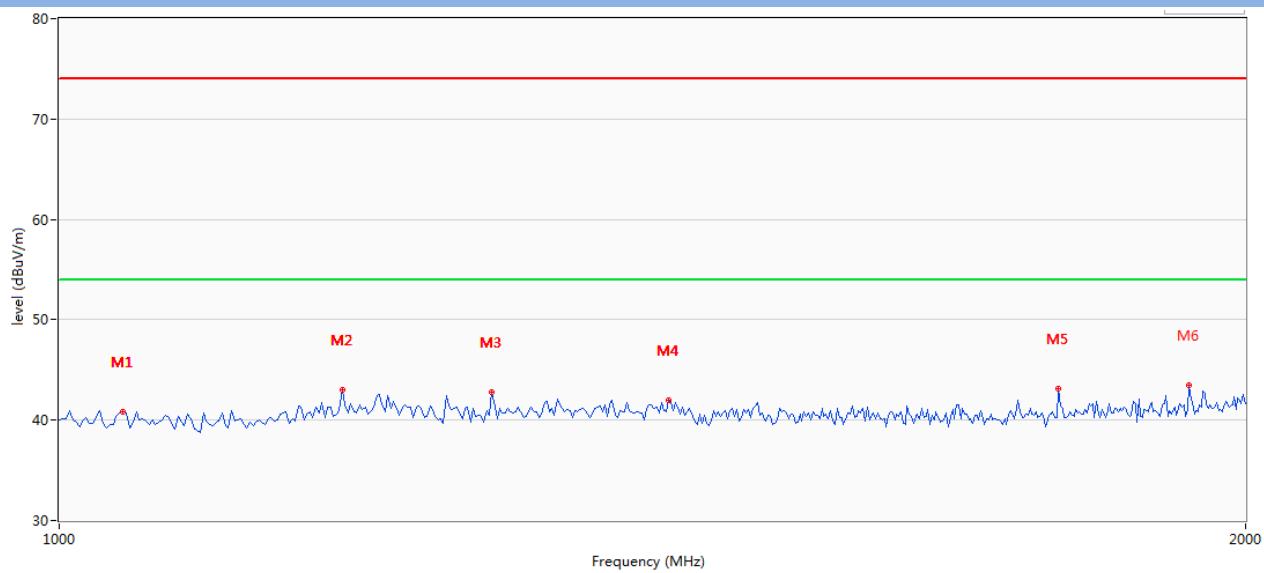
| Frequency (MHz) | Peak Level (dBuV/m) | Q-peak Level (dBuV/m) | Average Level (dBuV/m) | Factor (dB) | PK Limit (dBuV/m) | QP Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Table (o) | Height (cm) | ANT | Verdict |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|------------|---------|
| 32.91 | -- | 20.43 | -- | -21.26 | -- | 40.0 | -- | 19.57 | 252.10 | 100 | Horizontal | PASS |
| 45.50 | -- | 20.38 | -- | -18.11 | -- | 40.0 | -- | 19.62 | 57.30 | 100 | Horizontal | PASS |
| 107.30 | 49.28 | -- | 43.92 | -19.88 | 67.9 | -- | 47.9 | 3.98 | 2.80 | 100 | Horizontal | PASS |
| 319.74 | -- | 22.52 | -- | -16.84 | -- | 46.0 | -- | 23.48 | 360.00 | 100 | Horizontal | PASS |
| 623.05 | -- | 29.05 | -- | -9.84 | -- | 46.0 | -- | 16.95 | 247.30 | 100 | Horizontal | PASS |
| 949.61 | -- | 32.67 | -- | -4.21 | -- | 46.0 | -- | 13.33 | 266.20 | 100 | Horizontal | PASS |

HIGH Chanani, 1GHz to 2GHz, ANT V



| 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 |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|----------|---------|
| 1035.96 | 41.02 | | | -5.36 | 74.0 | -- | 54.0 | 12.98 | 298.10 | 100 | Vertical | PASS |
| 1207.79 | 42.45 | | | -4.03 | 74.0 | -- | 54.0 | 11.55 | -0.00 | 100 | Vertical | PASS |
| 1331.67 | 43.18 | | | -4.12 | 74.0 | -- | 54.0 | 10.82 | 229.90 | 100 | Vertical | PASS |
| 1421.58 | 42.40 | | | -4.08 | 74.0 | -- | 54.0 | 11.60 | 0.50 | 100 | Vertical | PASS |
| 1693.31 | 41.30 | | | -4.01 | 74.0 | -- | 54.0 | 12.70 | 99.50 | 100 | Vertical | PASS |
| 1833.17 | 42.39 | | | -3.69 | 74.0 | -- | 54.0 | 11.61 | 99.50 | 100 | Vertical | PASS |

HIGH Chanani, 1GHz to 2GHz, ANT H



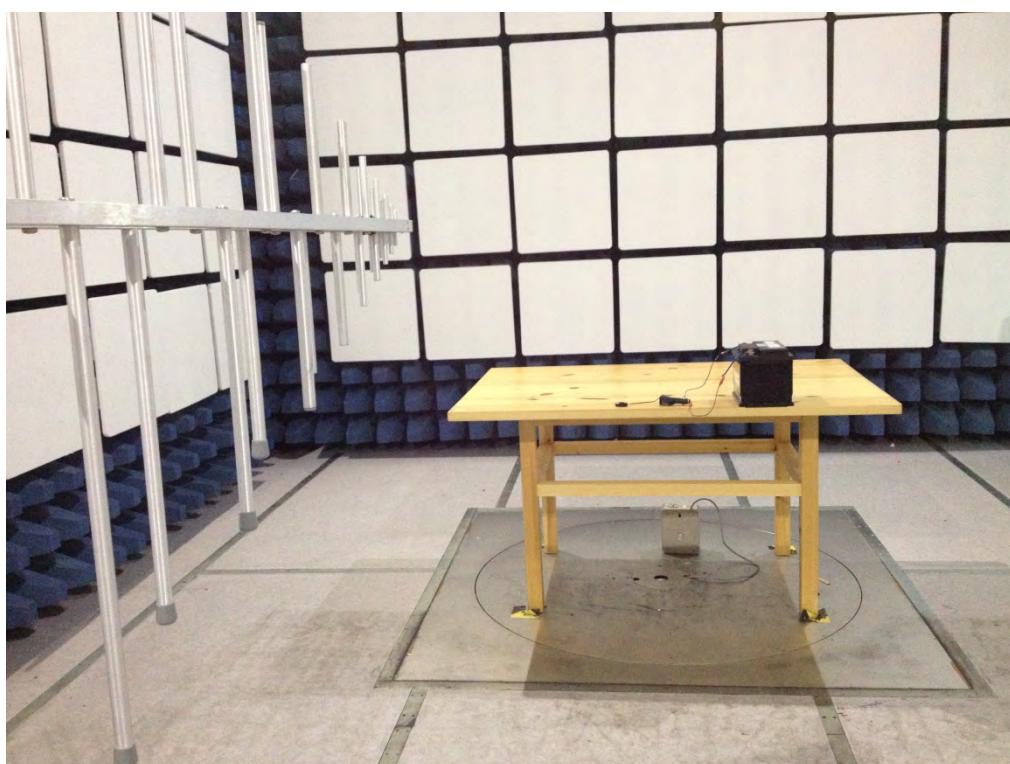
| Frequency (MHz) | Peak Level (dBuV/m) | Q-peak Level (dBuV/m) | Average Level (dBuV/m) | Factor (dB) | PK Limit (dBuV/m) | QP Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Table (o) | Height (cm) | ANT | Verdict |
|-----------------|---------------------|-----------------------|------------------------|-------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|------------|---------|
| 1037.96 | 40.83 | | | -5.29 | 74.0 | -- | 54.0 | 13.17 | 27.10 | 100 | Horizontal | PASS |
| 1179.82 | 43.01 | | | -4.56 | 74.0 | -- | 54.0 | 10.99 | 275.00 | 100 | Horizontal | PASS |
| 1287.71 | 42.84 | | | -4.30 | 74.0 | -- | 54.0 | 11.16 | 247.30 | 100 | Horizontal | PASS |
| 1427.57 | 41.95 | | | -4.06 | 74.0 | -- | 54.0 | 12.05 | 199.30 | 100 | Horizontal | PASS |
| 1793.21 | 43.13 | | | -3.87 | 74.0 | -- | 54.0 | 10.87 | 89.00 | 100 | Horizontal | PASS |
| 1935.07 | 43.45 | | | -3.11 | 74.0 | -- | 54.0 | 10.55 | 151.00 | 100 | Horizontal | PASS |

ANNEX B TEST SETUP PHOTOS

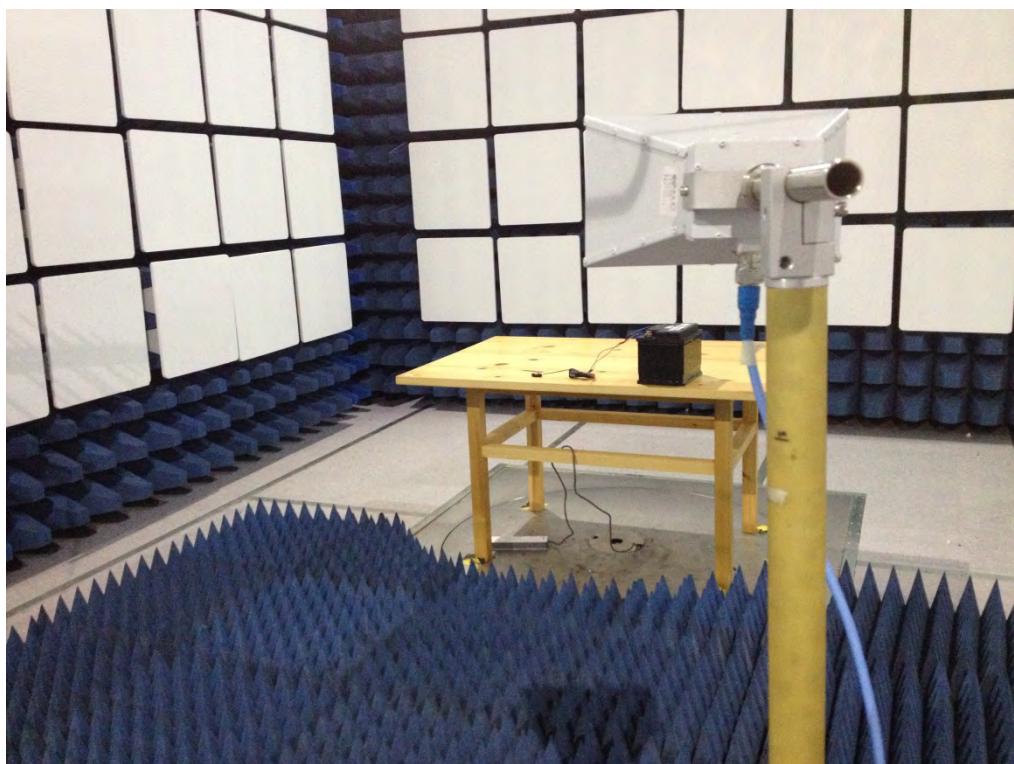
B.1 Radiated Test Photo



Below 30MHz



30MHz to 1GHz



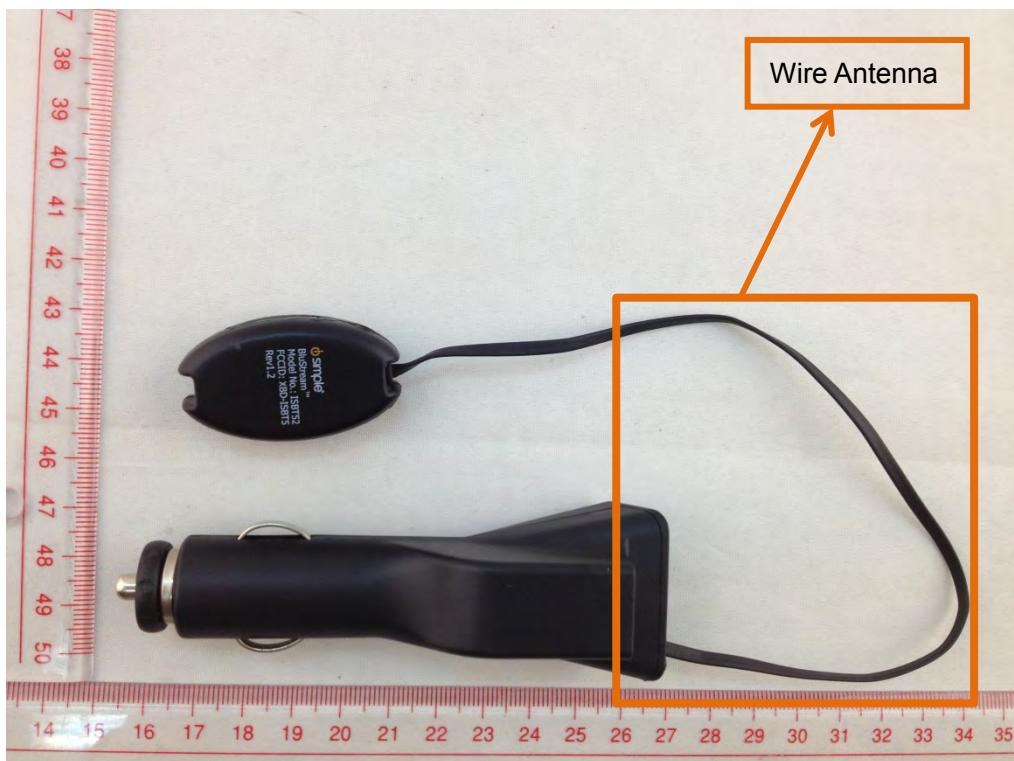
Above 1GHz

ANNEX C EUT PHOTOS

C.1 Appearance of the EUT



THE OVERALL FRONT OF EUT



THE OVERALL BACK OF EUT

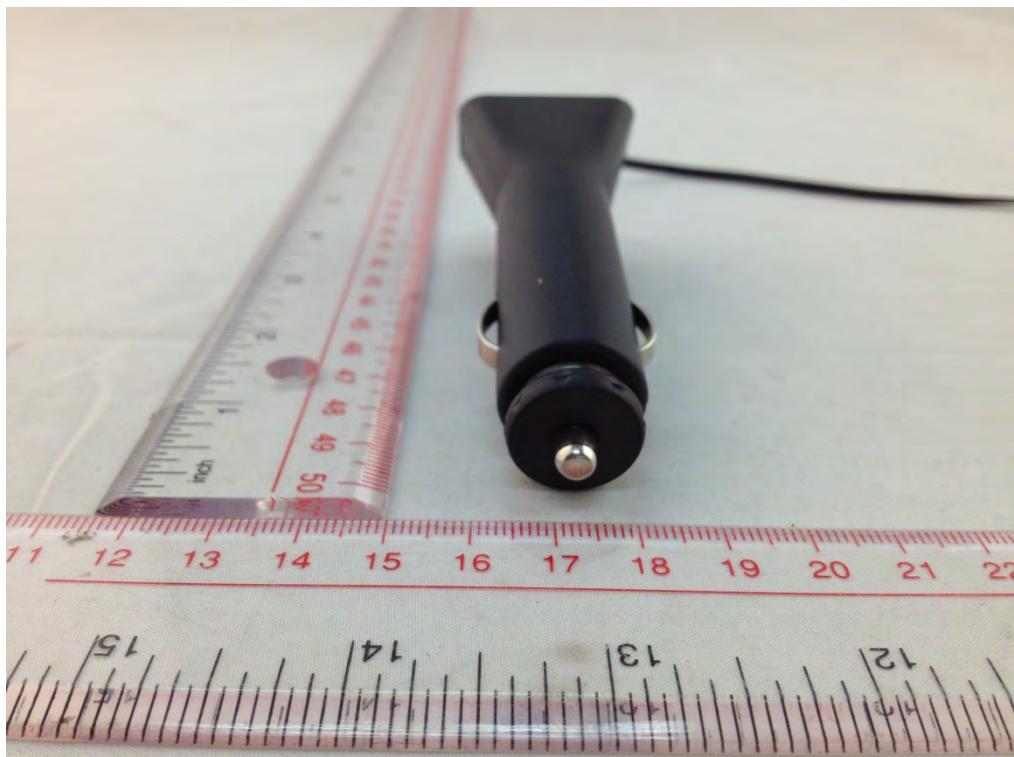
FM PART



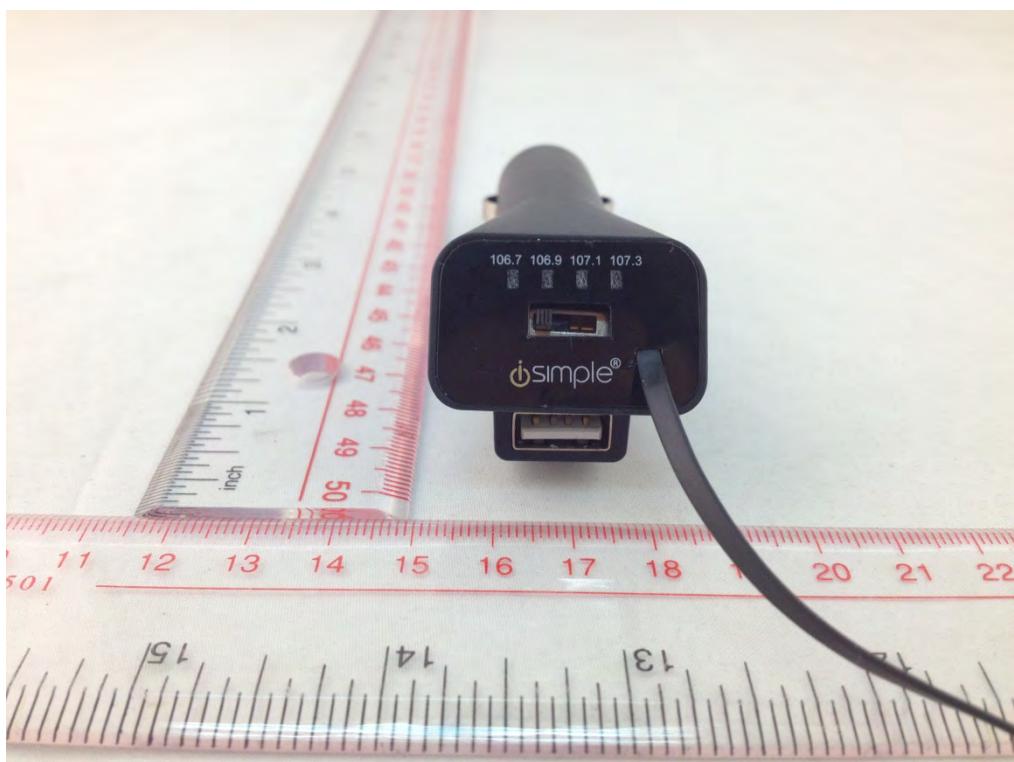
THE FRONT OF FM



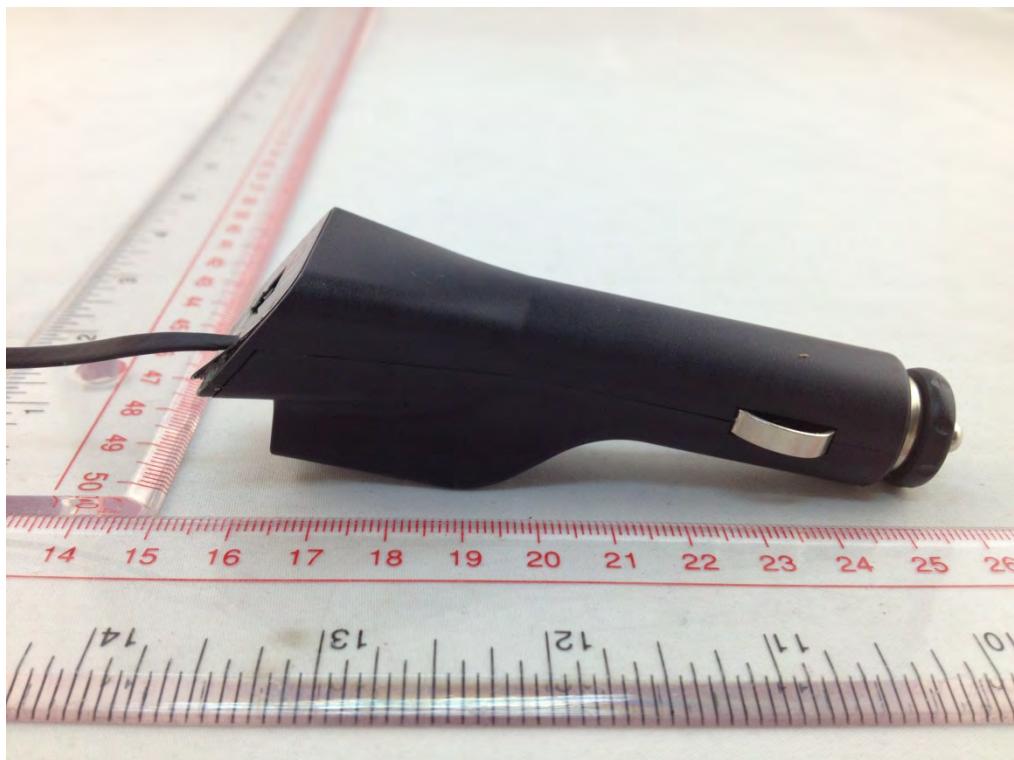
THE BACK OF FM



THE DOWN OF FM



THE UP OF FM



THE LEFT OF FM

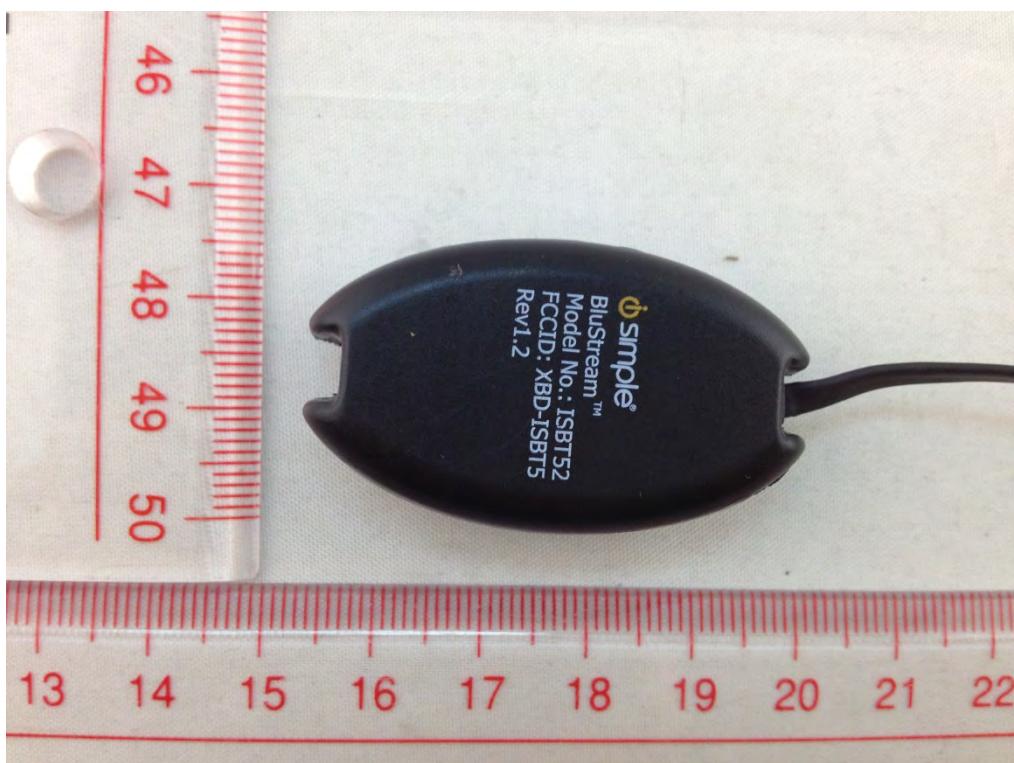


THE RIGHT OF FM

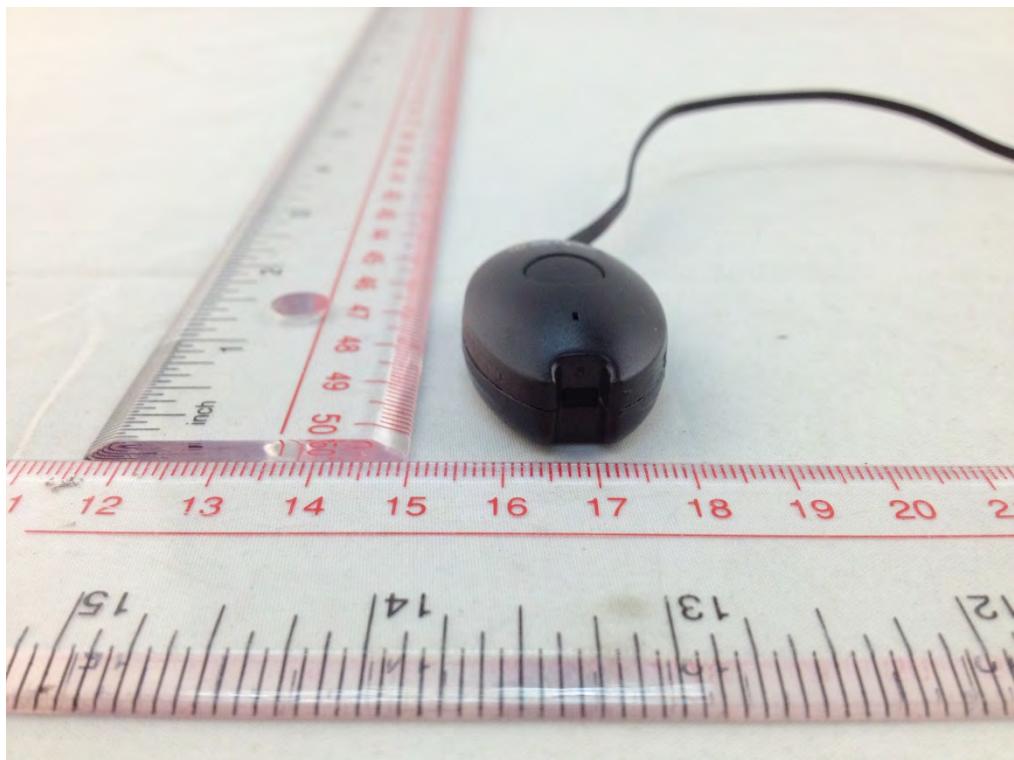
BT PART:



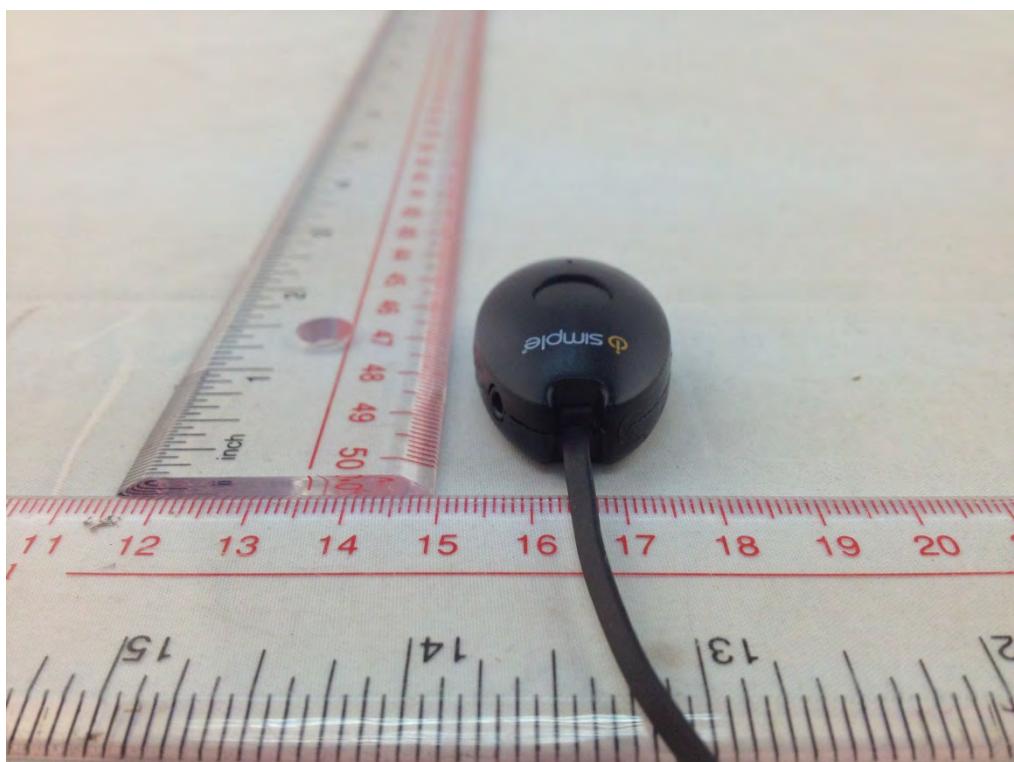
THE FRONT OF BT



THE BACK OF BT



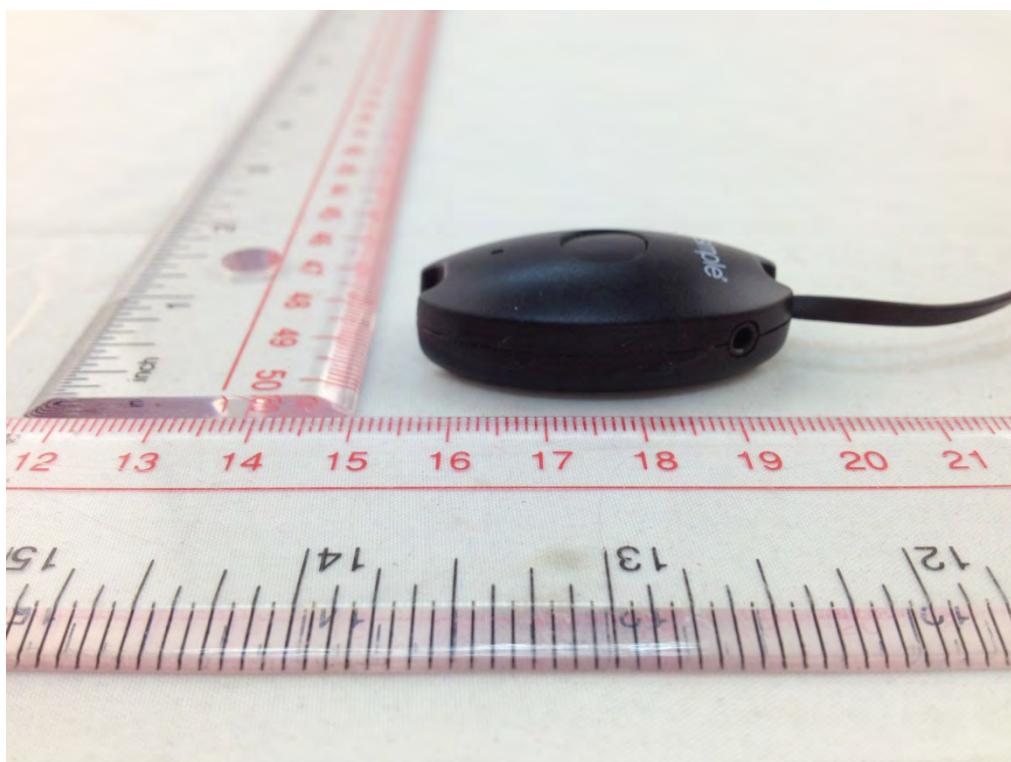
THE DOWN OF BT



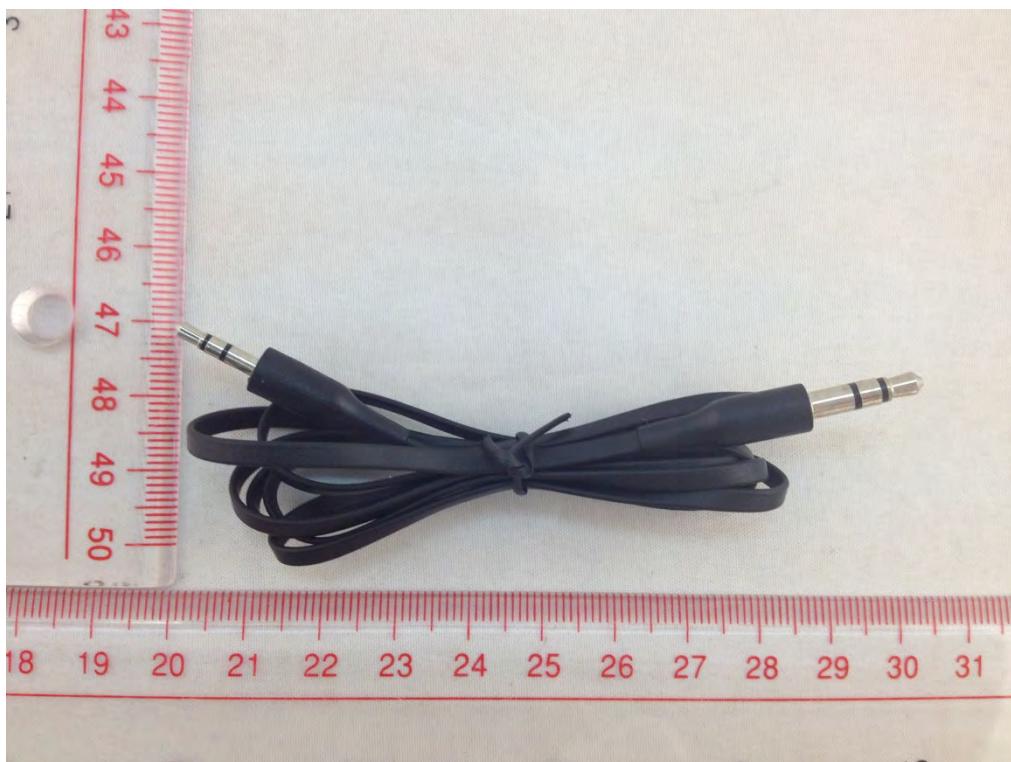
THE UP OF BT



THE LEFT OF BT



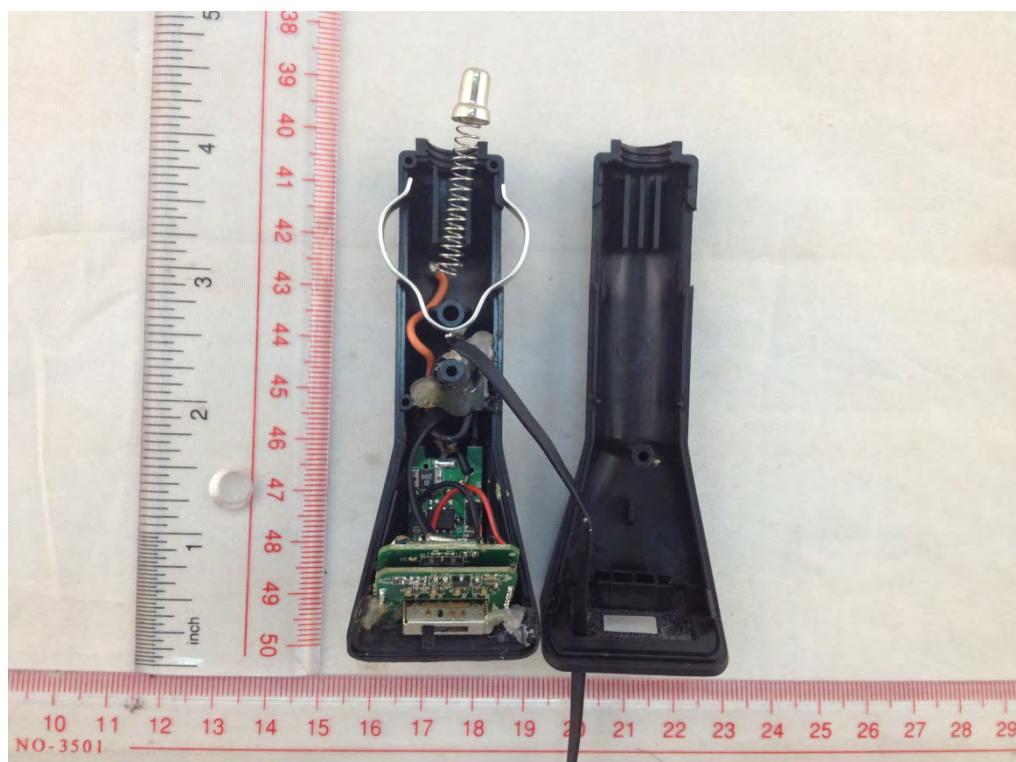
THE RIGHT OF BT



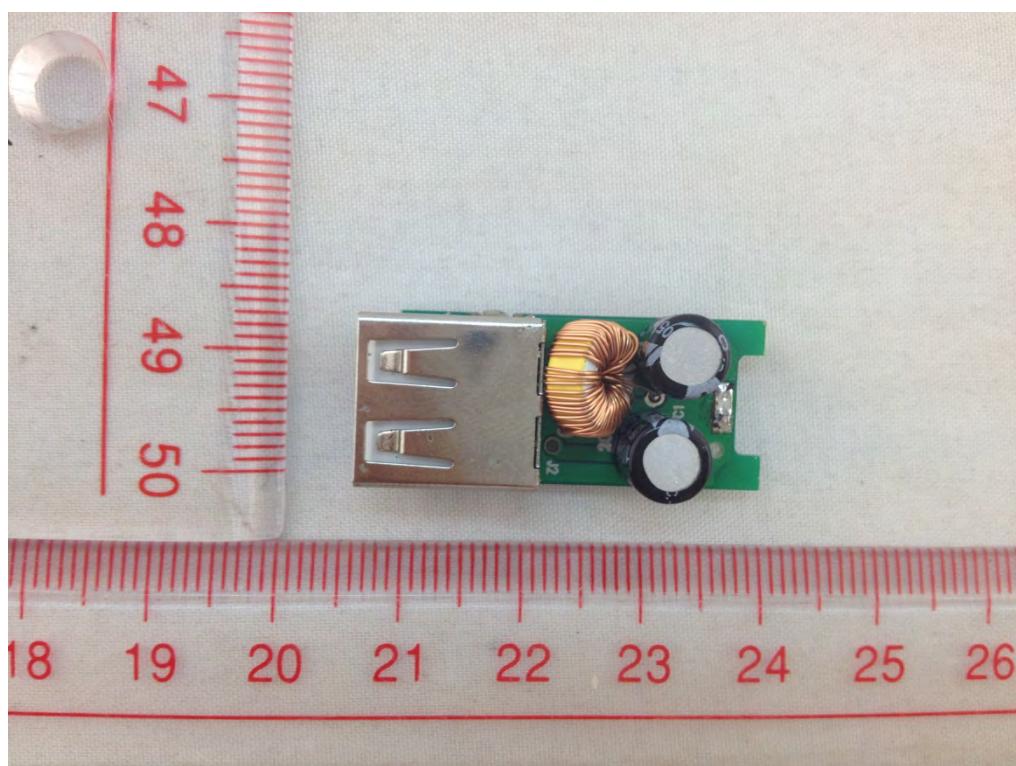
THE AUDIO LINE OF EUT

C.2 Inside of the EUT

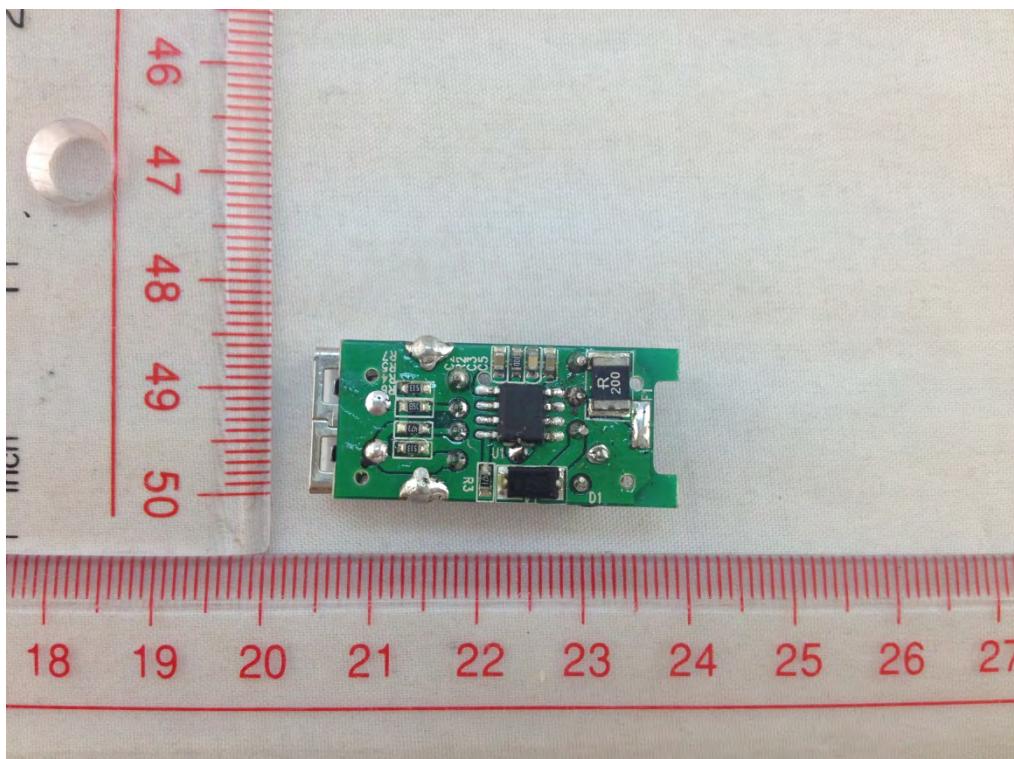
FM PART



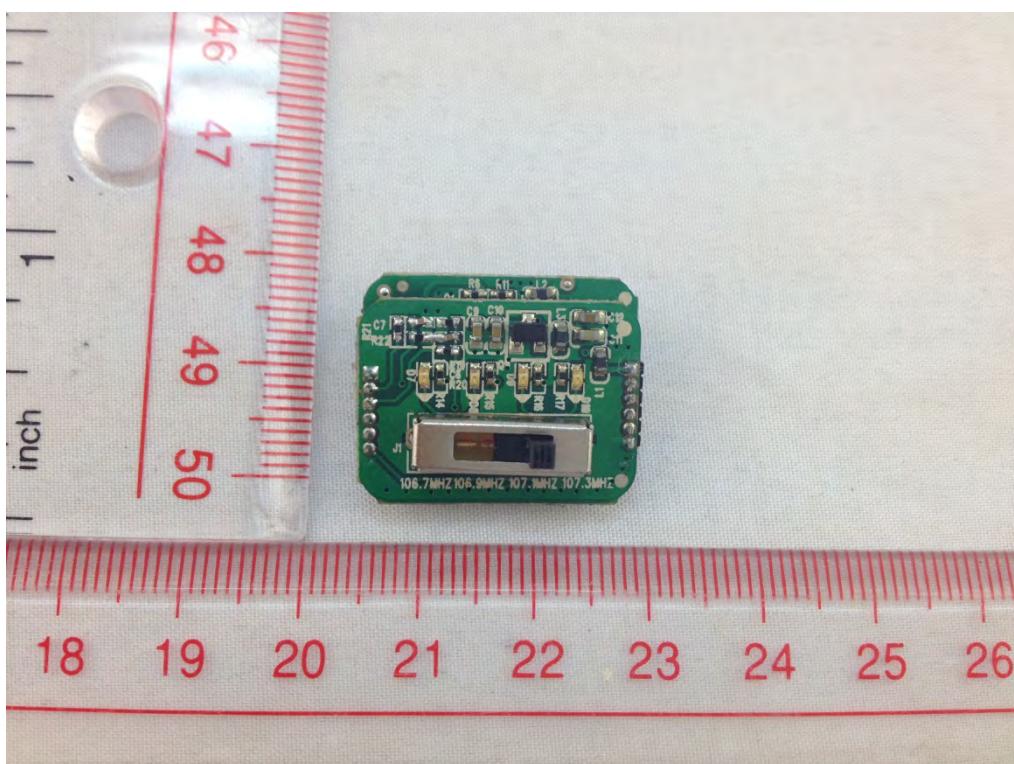
FM UNCOVER VIEW



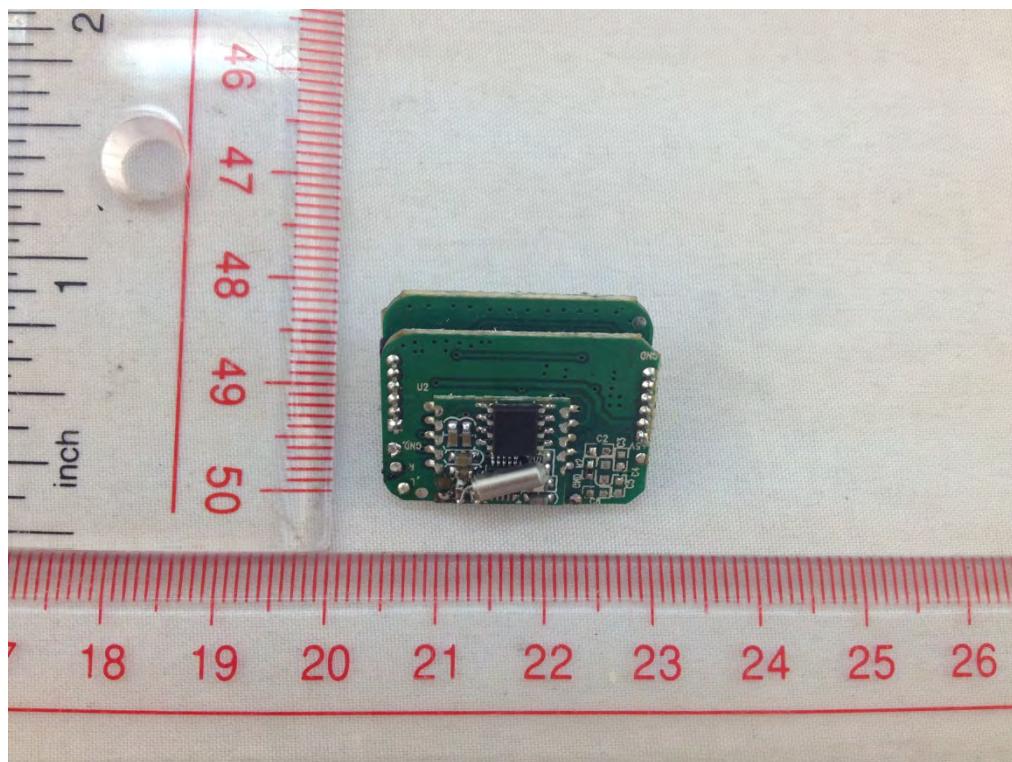
MAIN BOARD TOP VIEW 1



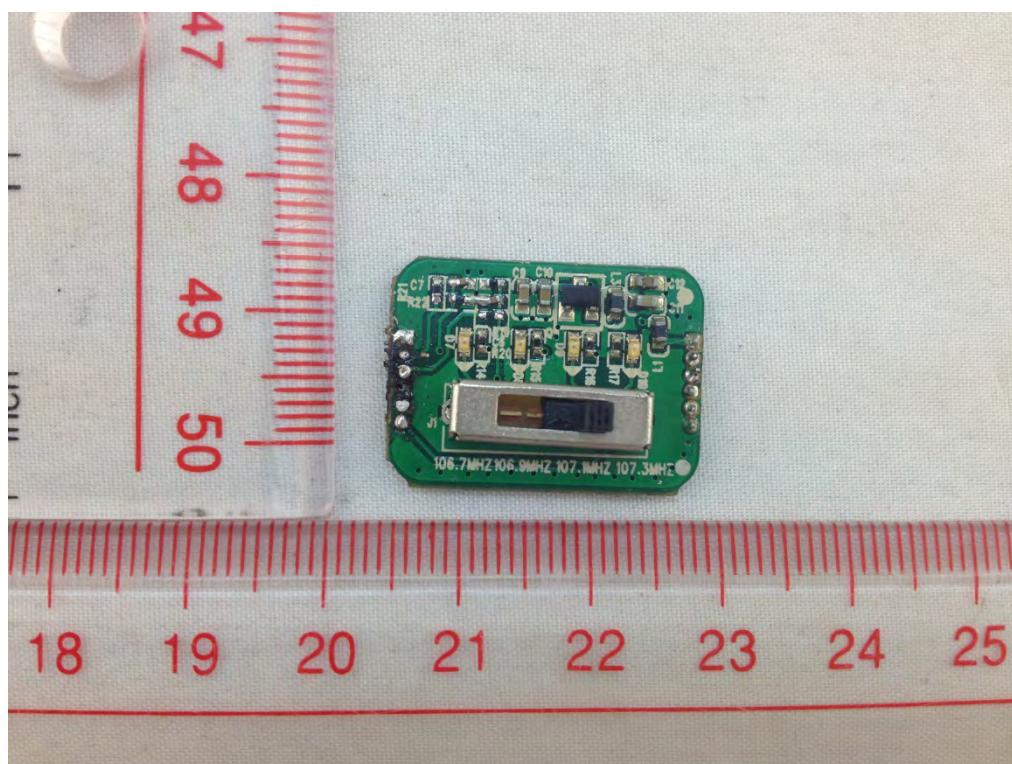
MAIN BOARD BACK VIEW 1



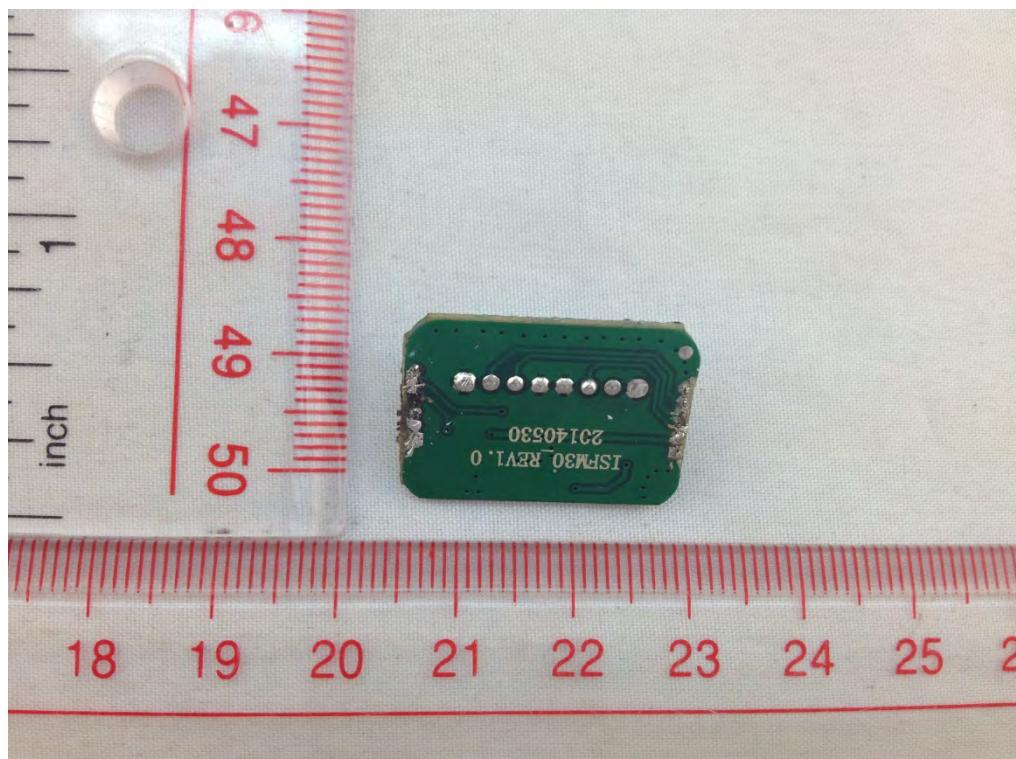
MAIN BOARD UP VIEW 2



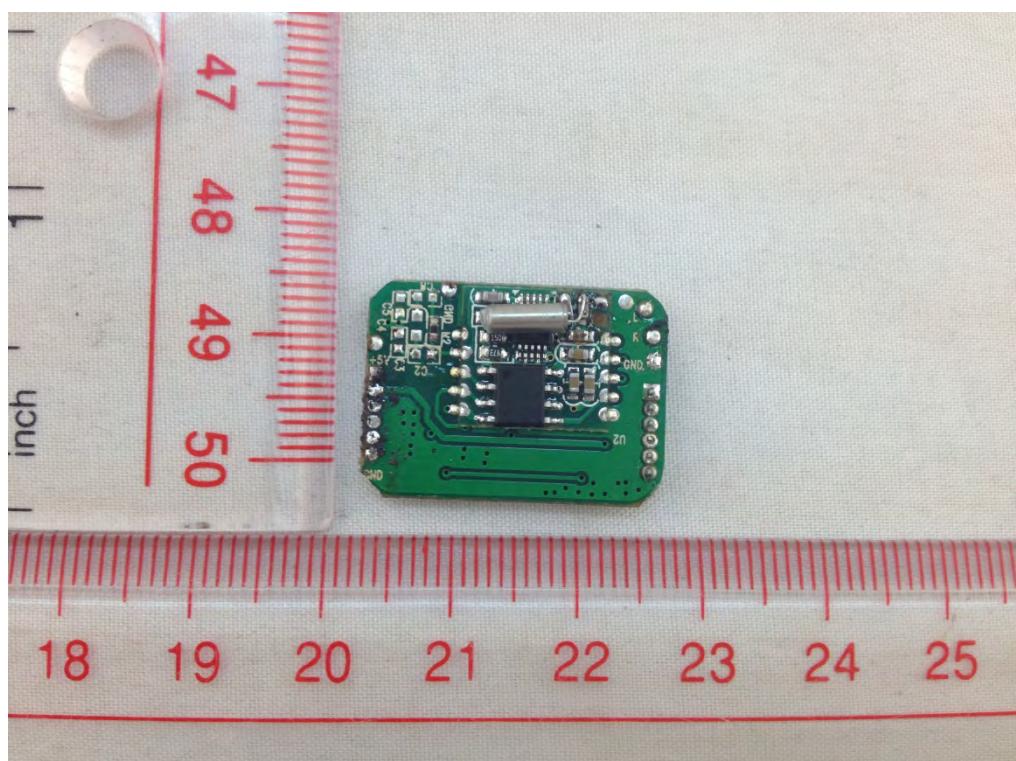
MAIN BOARD BACK VIEW 2



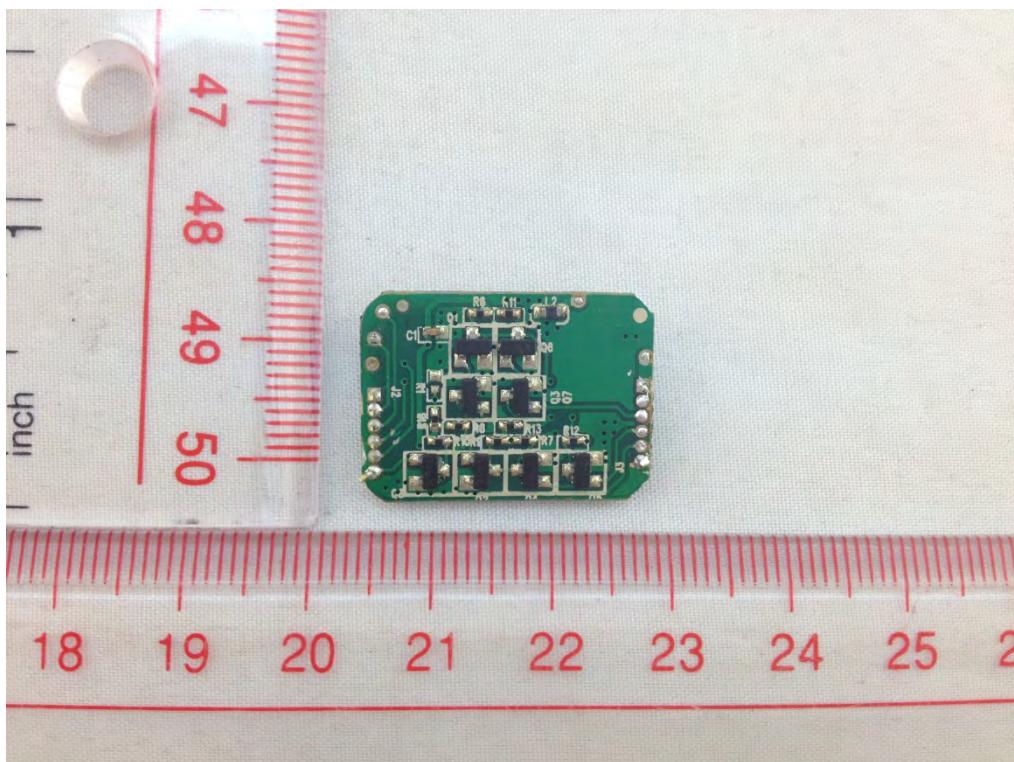
MAIN BOARD UP VIEW 3



MAIN BOARD BACK VIEW 3

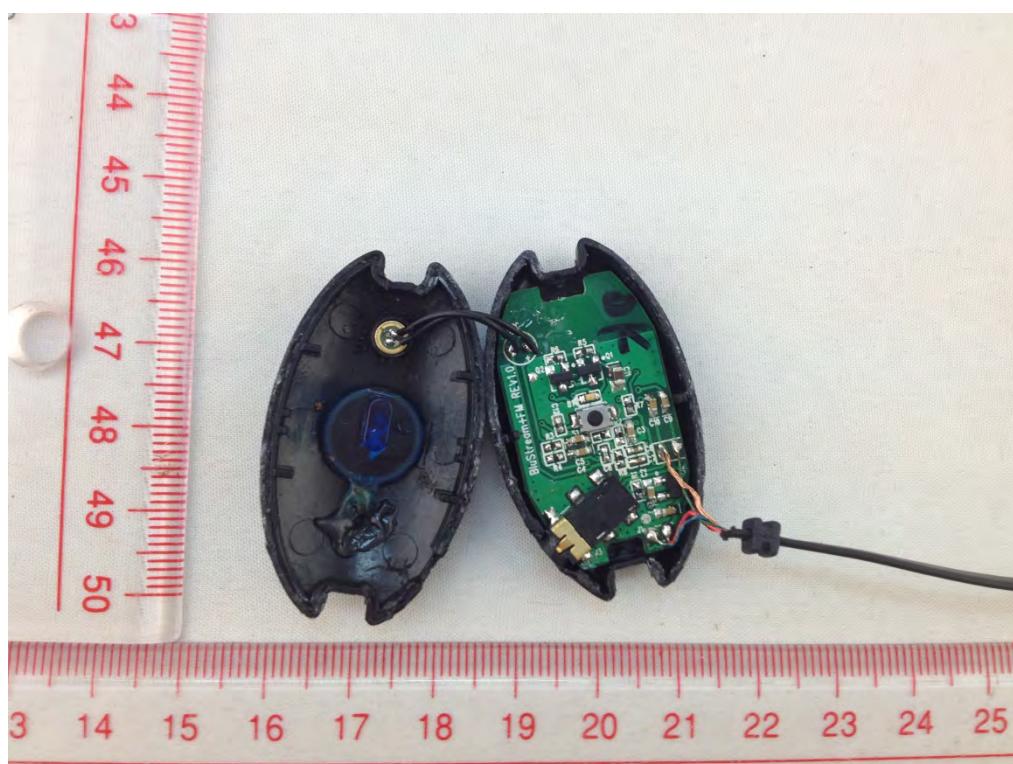


MAIN BOARD UP VIEW 4

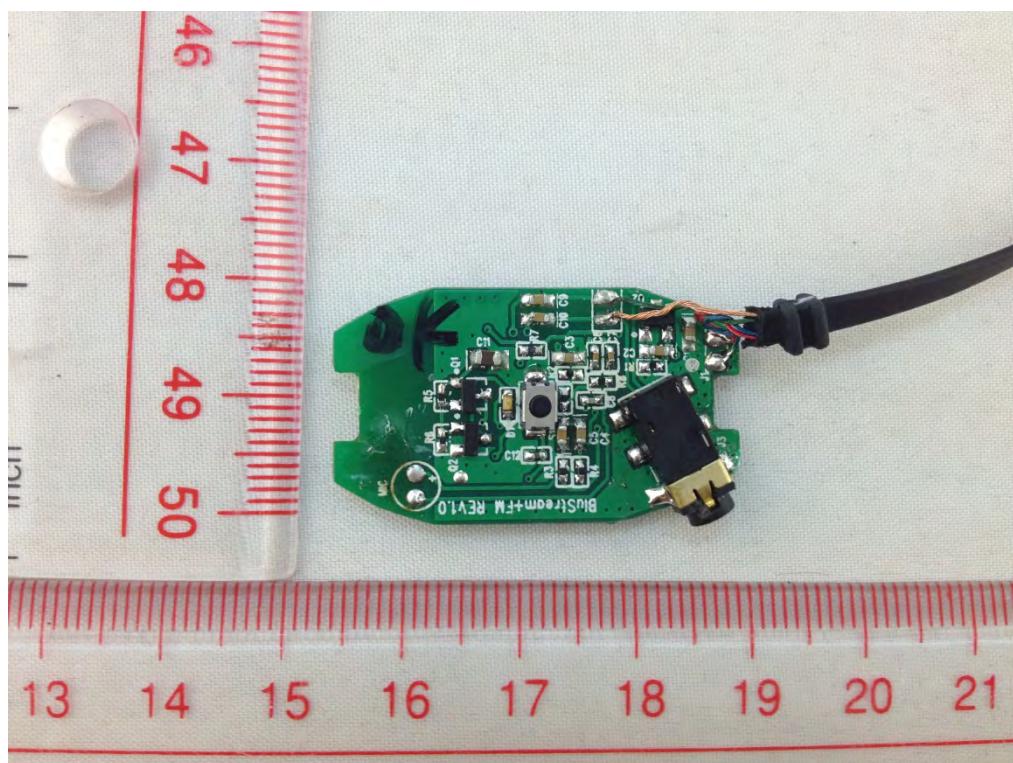


MAIN BOARD BACK VIEW 4

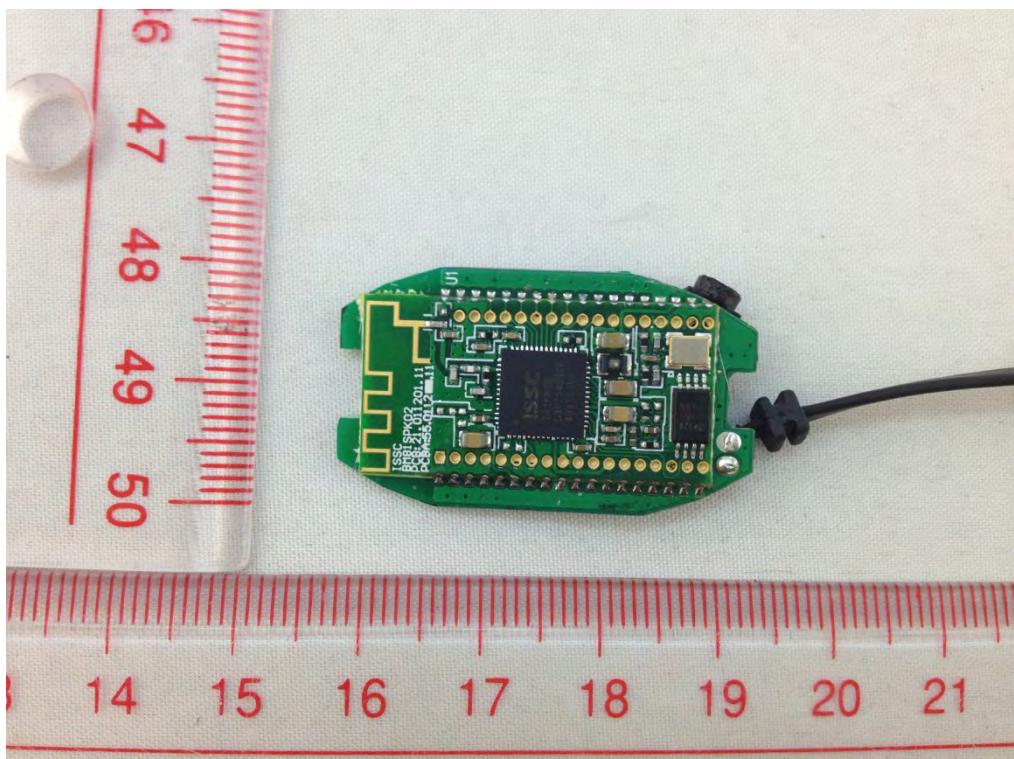
BT PART



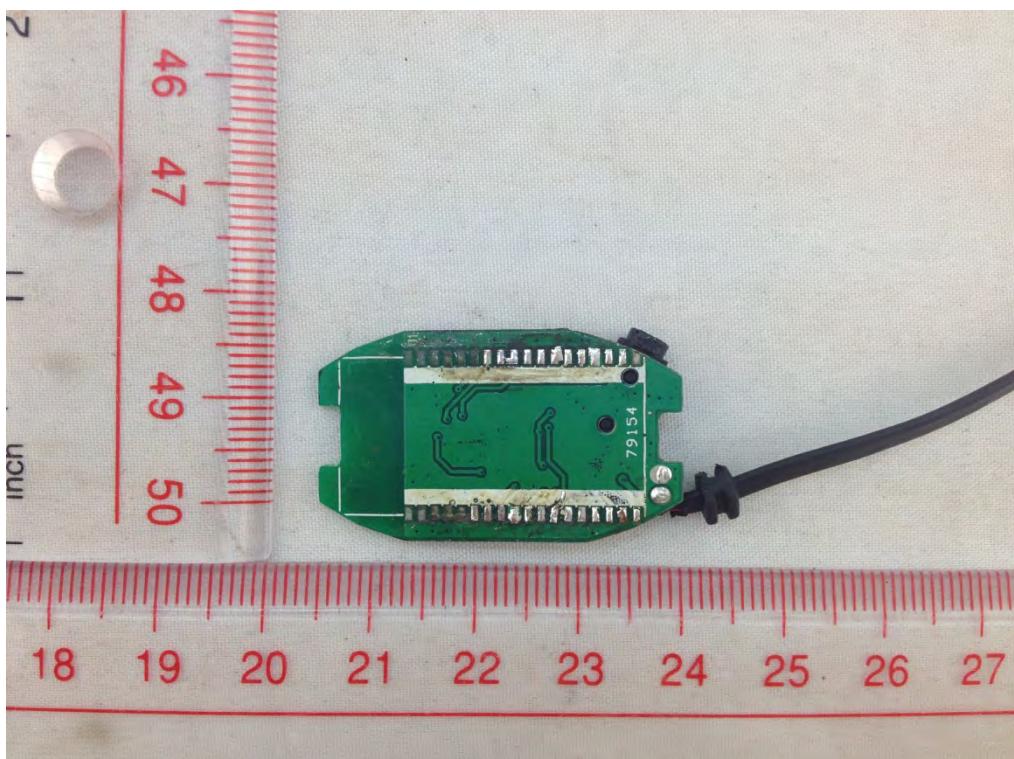
BT UNCOVER VIEW



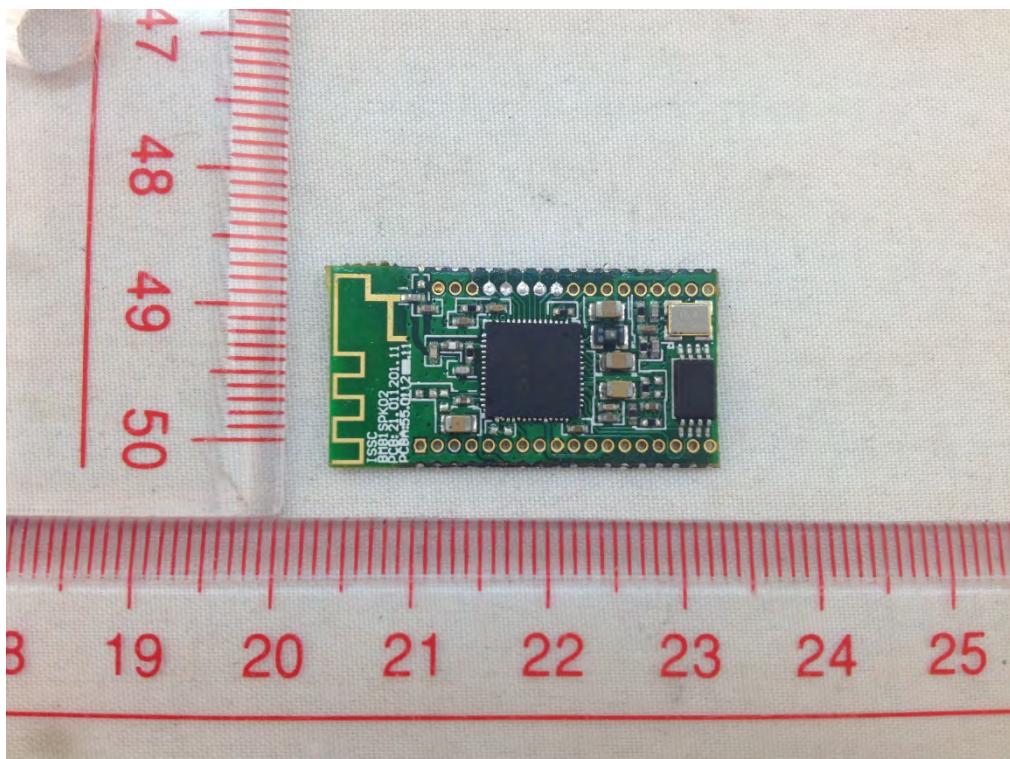
MAIN BOARD TOP VIEW



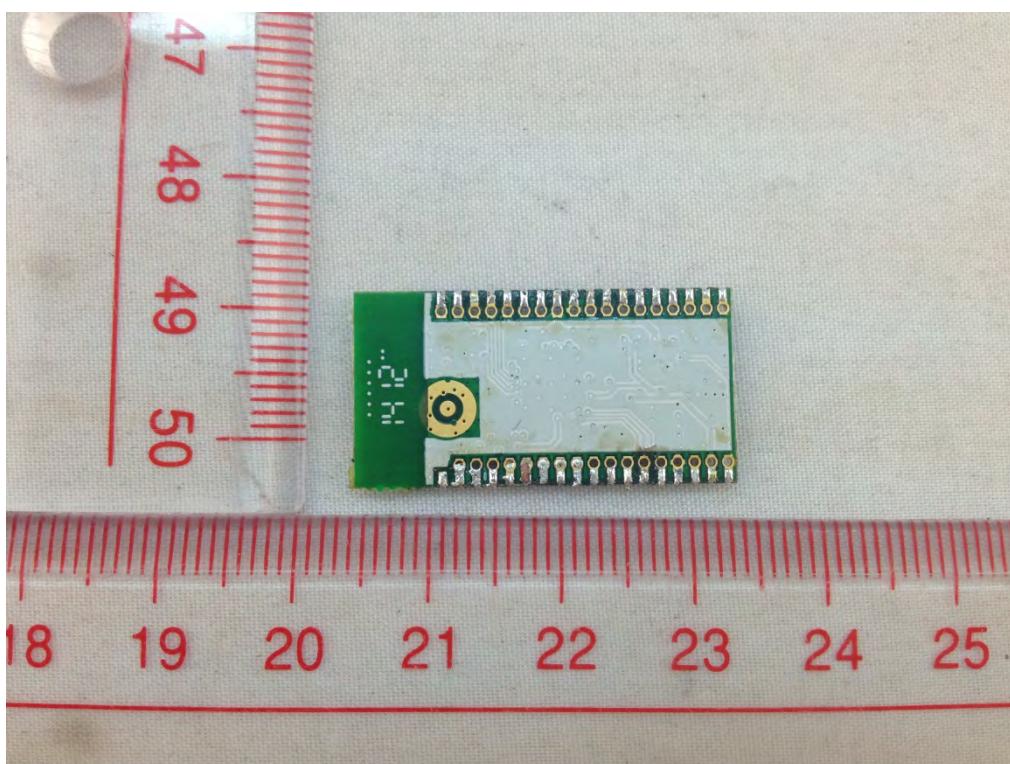
MAIN BOARD BACK VIEW 1



MAIN BOARD BACK VIEW 2



THE PHOTO OF RF MOUDLE 1



THE PHOTO OF RF MOUDLE 2

--END OF REPORT--