# FCC Test Report

Report No.: AGC06504160301FE01

| | | |
|---|---|---|
| **FCC ID** | | 2AHXQ30402209 |
| **PRODUCT DESIGNATION** | : | SILICONE DOG USB |
| **BRAND NAME** | : | PINK |
| **MODEL NAME** | : | 30402209, 30402210 |
| **CLIENT** | : | IXIN GLOBAL TRADE |
| **DATE OF ISSUE** | : | Apr.08, 2016 |
| **STANDARD(S)** | : | FCC Part 15 Rules |
| **REPORT VERSION** | : | V1.0 |

Attestation of Global Compliance (Shenzhen) Co., Ltd

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## Report Revise Record

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|---|---|---|---|---|
| V1.0 | / | Apr.08, 2016 | Valid | Original Report |

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## 1. VERIFICATION OF CONFORMITY

| | |
|---|---|
| **Applicant** | IXIN GLOBAL TRADE |
| **Address** | ROOM 603, DONGTIAN TOWER, NO.19 HAIAN ROAD, TIANHE DISTRICT, GUANGZHOU, CHINA 510627 |
| **Manufacturer** | DONGGUAN KEXIN RUBBER & METAL PRODUCT CO LTD |
| **Address** | JINXIULU, TUANJIE ROAD, CUNTOU INDUSTRIAL ZONE, HUMEN TOWN, DONGGUAN, CHINA |
| **Product Designation** | SILICONE DOG USB |
| **Brand Name** | PINK |
| **Test Model** | 30402209 |
| **Series Model** | 30402210 |
| **Model Difference** | All the same except for the model name and color. |
| **Measurement Procedure** | ANSI C63.4: 2009 |
| **Date of test** | Mar.29, 2016 to Mar.30, 2016 |
| **Deviation** | None |
| **Condition of Test Sample** | Normal |
| **Test Result** | Pass |
| **Report Template** | AGCRT-US-IT/AC(2013-03-01) |

The above equipment was tested by Dongguan Precise Testing Service Co., Ltd. and complianced with the requirements set forth in the FCC Rules and Regulations Part 15, the measurement procedure according to ANSI C63.4:2009. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.
The test results of this report relate only to the tested sample identified in this report.

Tested By

Erik Yang(Yang Jianmin) Apr.08, 2016

Reviewed By

Rock Huang(Huang Dinglue) Apr.08, 2016

Approved By

Solger Zhang(Zhang Hongyi)
Authorized Officer Apr.08, 2016

## 2. SYSTEM DESCRIPTION

| TEST MODE DESCRIPTION | | |
|---|---|---|
| **NO.** | **TEST MODE DESCRIPTION** | **WORST** |
| 1 | Data Exchange | V |
| Note:<br>1. V means EMI worst mode | | |

## 3. MEASUREMENT UNCERTAINTY

Conducted measurement: ±3.18dB

Radiated measurement: ±3.91dB

## 4. PRODUCT INFORMATION

| | |
|---|---|
| **Housing Type** | Plastic and metal |
| **Frequency** | Highest frequency generated or used in the device or on which the device operates or tunes is Between 1.705MHz and 108MHz, Upper frequency of measurement range shall be made up to 1GHz |
| **EUT Input Rating** | DC 5V |

**I/O Port Information (☒Applicable ☐Not Applicable)**

| **I/O Port of EUT** | | | |
|---|---|---|---|
| **I/O Port Type** | **Number** | **Cable Description** | **Tested With** |
| USB | 1 | -- | 1 |

## 5. SUPPORT EQUIPMENT

| Device Type | Manufacturer | Model Name | Serial No. | Data Cable | Power Cable |
|---|---|---|---|---|---|
| PC | TOSHIBA | PSKTBA-001001 | 9E208859C | -- | 0.8m Unshielded |
| TP-LINK | PU LIAN | TL-WR845N | -- | -- | 0.8m Unshielded |
| Mouse | TOSHIBA | -- | -- | -- | -- |

## 6. TEST FACILITY

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

| **Radiated Emission Test Site** | | | | | |
|---|---|---|---|---|---|
| **Name of Equipment** | **Manufacturer** | **Model Number** | **Serial Number** | **Last Calibration** | **Due Calibration** |
| EMI Test Receiver | Rohde & Schwarz | ESCI | 101417 | 2015.07.04 | 2016.07.03 |
| Trilog Broadband Antenna (25M-1GHz) | SCHWARZBECK | VULB9160 | 9160-3355 | 2015.07.04 | 2016.07.03 |
| Signal Amplifier | SCHWARZBECK | BBV 9475 | 9745-0013 | 2015.07.04 | 2016.07.03 |
| RF Cable | SCHWARZBECK | AK9515E | 96221 | 2015.07.04 | 2016.07.03 |
| 3m Anechoic Chamber | CHENGYU | 966 | PTS-001 | 2015.06.06 | 2016.06.05 |
| MULTI-DEVICE Positioning Controller | Max-Full | MF-7802 | MF780208339 | N/A | N/A |
| Active loop antenna (9K-30MHz) | Schwarzbeck | FMZB1519 | 1519-038 | 2015.06.06 | 2016.06.05 |
| Spectrum analyzer | Agilent | E4407B | MY46185649 | 2015.06.06 | 2016.06.05 |

| **Conducted Emission Test Site** | | | | | |
|---|---|---|---|---|---|
| **Name of Equipment** | **Manufacturer** | **Model Number** | **Serial Number** | **Last Calibration** | **Due Calibration** |
| EMI Test Receiver | Rohde & Schwarz | ESCI | 101417 | 2015.07.04 | 2016.07.03 |
| Artificial Mains Network | Narda | L2-16B | 000WX31025 | 2015.07.08 | 2016.07.07 |
| Artificial Mains Network (AUX) | Narda | L2-16B | 000WX31026 | 2015.07.08 | 2016.07.07 |
| RF Cable | SCHWARZBECK | AK9515E | 96222 | 2015.07.04 | 2016.07.03 |
| Shielded Room | CHENGYU | 843 | PTS-002 | 2015.06.06 | 2016.06.05 |

## 7. TEST ITEMS AND THE RESULTS

| Test item | Test Requirement | Test Method | Class/Severity | Result |
|---|---|---|---|---|
| CONDUCTED EMISSION | FCC Part 15 Rules | ANSI C63.4 | Class B | Pass |
| RADIATED EMISSION | FCC Part 15 Rules | ANSI C63.4 | Class B | Pass |

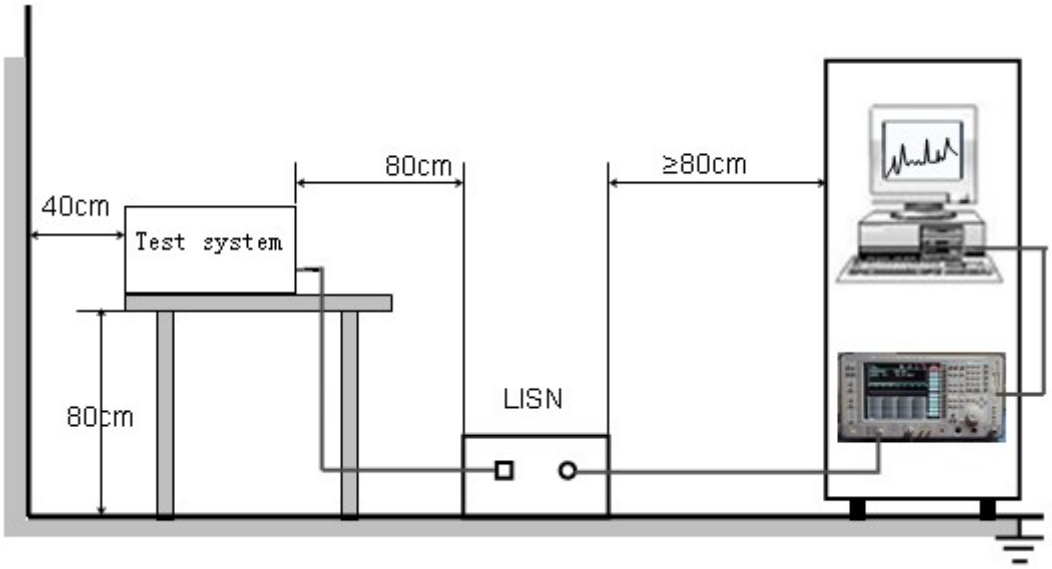
# 8. FCC LINE CONDUCTED EMISSION TEST

## 8.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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

**Note:**
1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

## 8.2. BLOCK DIAGRAM OF TEST SETUP



**8.3. PROCEDURE OF LINE CONDUCTED EMISSION TEST**

(1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.

(2) Support equipment, if needed, was placed as per ANSI C63.4.

(3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.

(4) The EUT received DC 5V power from pc which received 120V/60Hz power from a LISN.

(5) The EUT 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.

(6) Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

(7) During the above scans, the emissions were maximized by cable manipulation.

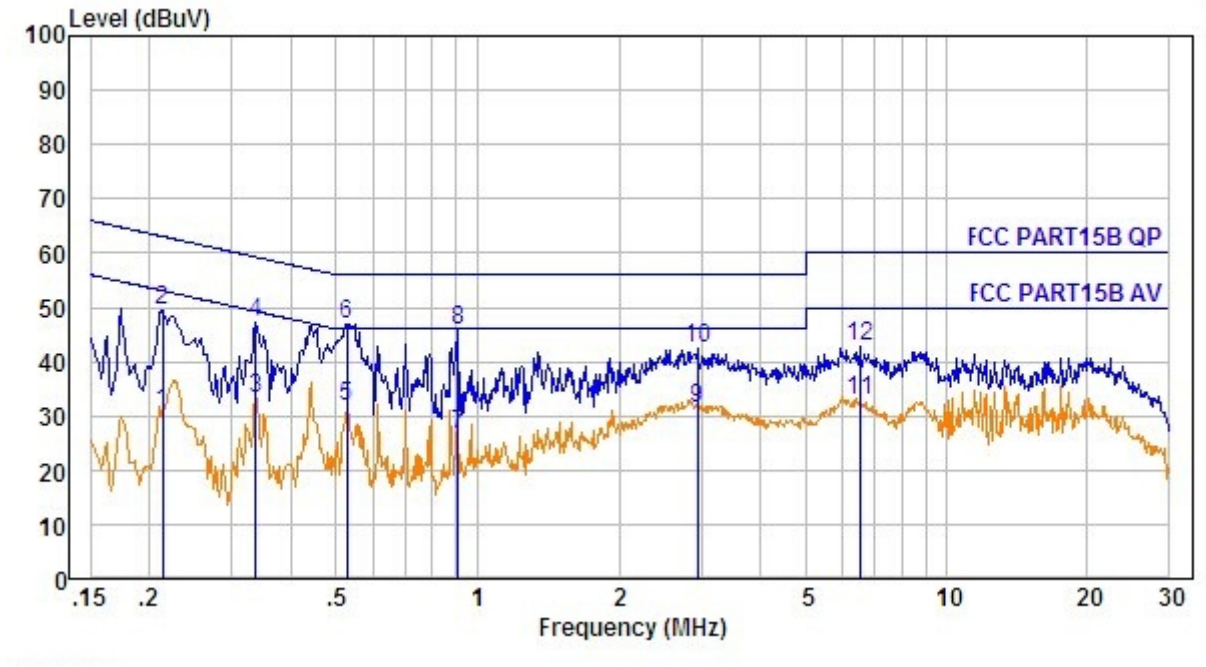
(8) A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions.

(9) 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.

The test data of the worst case condition was reported.

## 8.4. TEST RESULT OF LINE CONDUCTED EMISSION TEST

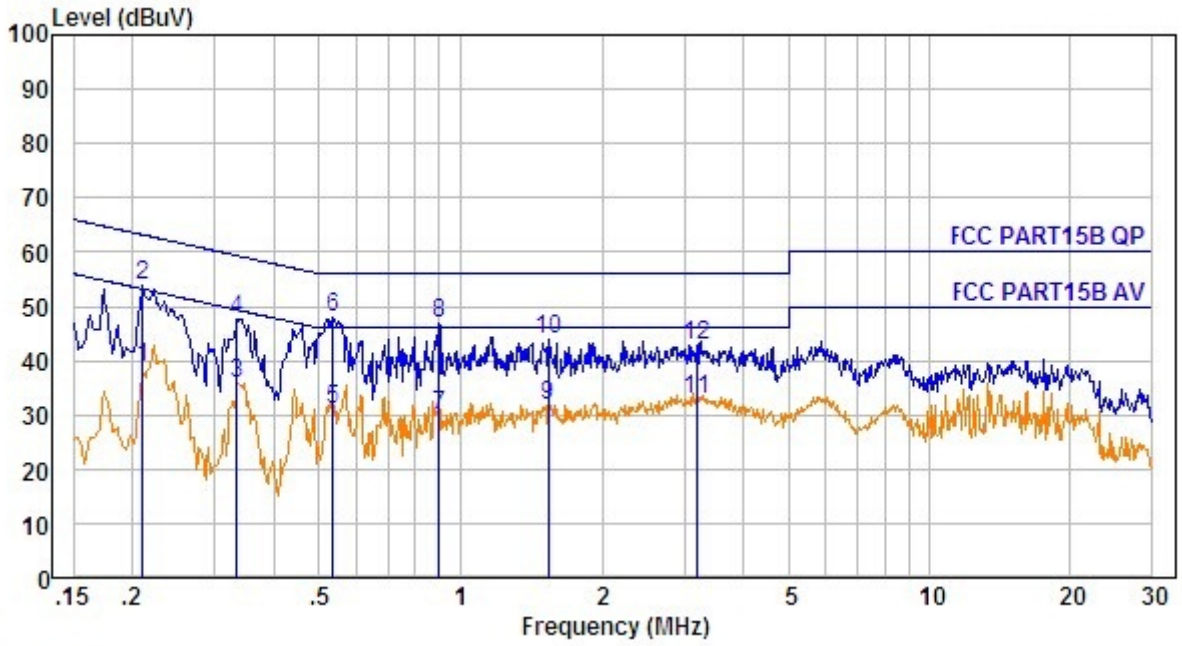
LINE CONDUCTED EMISSION TEST-L




| No. | Freq MHz | Cable Loss dB | AMN Factor dB | Receiver Reading dBuV | Emission Level dBuV | Limit dBuV | Over Limit dB | Remark |
|---|---|---|---|---|---|---|---|---|
| 1. | 0.214 | 10.61 | 0.60 | 19.24 | 30.45 | 53.05 | -22.60 | Average |
| 2. | 0.214 | 10.61 | 0.60 | 38.24 | 49.45 | 63.05 | -13.60 | QP |
| 3. | 0.337 | 10.63 | 0.60 | 21.87 | 33.10 | 49.27 | -16.17 | Average |
| 4. | 0.337 | 10.63 | 0.60 | 35.87 | 47.10 | 59.27 | -12.17 | QP |
| 5. | 0.527 | 10.65 | 0.60 | 20.66 | 31.91 | 46.00 | -14.09 | Average |
| 6. | 0.527 | 10.65 | 0.60 | 35.66 | 46.91 | 56.00 | -9.09 | QP |
| 7. | 0.909 | 10.67 | 0.60 | 15.41 | 26.68 | 46.00 | -19.32 | Average |
| 8. | 0.909 | 10.67 | 0.60 | 34.41 | 45.68 | 56.00 | -10.32 | QP |
| 9. | 2.946 | 10.71 | 0.60 | 20.16 | 31.47 | 46.00 | -14.53 | Average |
| 10. | 2.946 | 10.71 | 0.60 | 31.16 | 42.47 | 56.00 | -13.53 | QP |
| 11. | 6.523 | 10.74 | 0.60 | 21.33 | 32.67 | 50.00 | -17.33 | Average |
| 12. | 6.523 | 10.74 | 0.60 | 31.33 | 42.67 | 60.00 | -17.33 | QP |

**RESULT: PASS**

LINE CONDUCTED EMISSION TEST-N




| No. | Freq MHz | Cable Loss dB | AMN Factor dB | Receiver Reading dBuV | Emission Level dBuV | Limit dBuV | Over Limit dB | Remark |
|---|---|---|---|---|---|---|---|---|
| 1. | 0.211 | 10.61 | 0.60 | 27.57 | 38.78 | 53.18 | -14.40 | Average |
| 2. | 0.211 | 10.61 | 0.60 | 42.57 | 53.78 | 63.18 | -9.40 | QP |
| 3. | 0.334 | 10.63 | 0.60 | 24.50 | 35.73 | 49.35 | -13.62 | Average |
| 4. | 0.334 | 10.63 | 0.60 | 36.50 | 47.73 | 59.35 | -11.62 | QP |
| 5. | 0.535 | 10.65 | 0.60 | 19.83 | 31.08 | 46.00 | -14.92 | Average |
| 6. | 0.535 | 10.65 | 0.60 | 36.83 | 48.08 | 56.00 | -7.92 | QP |
| 7. | 0.899 | 10.67 | 0.60 | 18.50 | 29.77 | 46.00 | -16.23 | Average |
| 8. | 0.899 | 10.67 | 0.60 | 35.50 | 46.77 | 56.00 | -9.23 | QP |
| 9. | 1.535 | 10.69 | 0.60 | 20.52 | 31.81 | 46.00 | -14.19 | Average |
| 10. | 1.535 | 10.69 | 0.60 | 32.52 | 43.81 | 56.00 | -12.19 | QP |
| 11. | 3.190 | 10.72 | 0.60 | 21.40 | 32.72 | 46.00 | -13.28 | Average |
| 12. | 3.190 | 10.72 | 0.60 | 31.40 | 42.72 | 56.00 | -13.28 | QP |

**RESULT: PASS**

# 9. FCC RADIATED EMISSION TEST

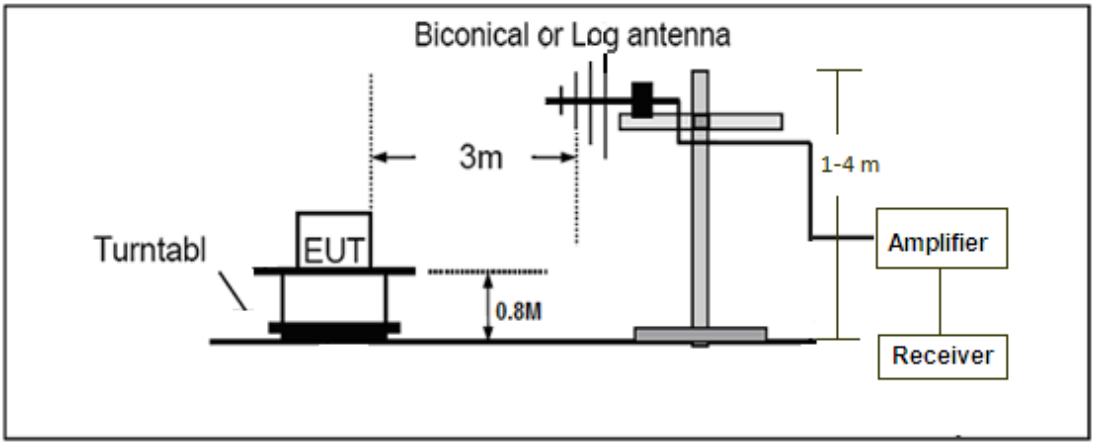
## 9.1. LIMITS OF RADIATED EMISSION TEST

| Frequency (MHz) | Distance (m) | Maximum Field Strength Limit (dBuV/m/ Q.P.) |
|---|---|---|
| 30~88 | 3 | 40.0 |
| 88~216 | 3 | 43.5 |
| 216~960 | 3 | 46.0 |
| Above 960 | 3 | 54.0 |

Note: The lower limit shall apply at the transition frequency.

## 9.2. BLOCK DIAGRAM OF TEST SETUP

System Diagram of Connections between EUT and Simulators



**9.3. PROCEDURE OF RADIATED EMISSION TEST**

(1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.

(2) Support equipment, if needed, was placed as per ANSI C63.4.

(3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.

(4) The EUT was connected to pc for data exchange. All support equipments received AC120V/60Hz power from socket under the turntable, if any.

(5) The antenna was placed at 3 meter away from the EUT as stated in FCC Part 15. The antenna connected to the Analyzer via a cable and at times a pre-amplifier would be used.

(6) The Analyzer / Receiver quickly scanned from 30MHz to 1000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.

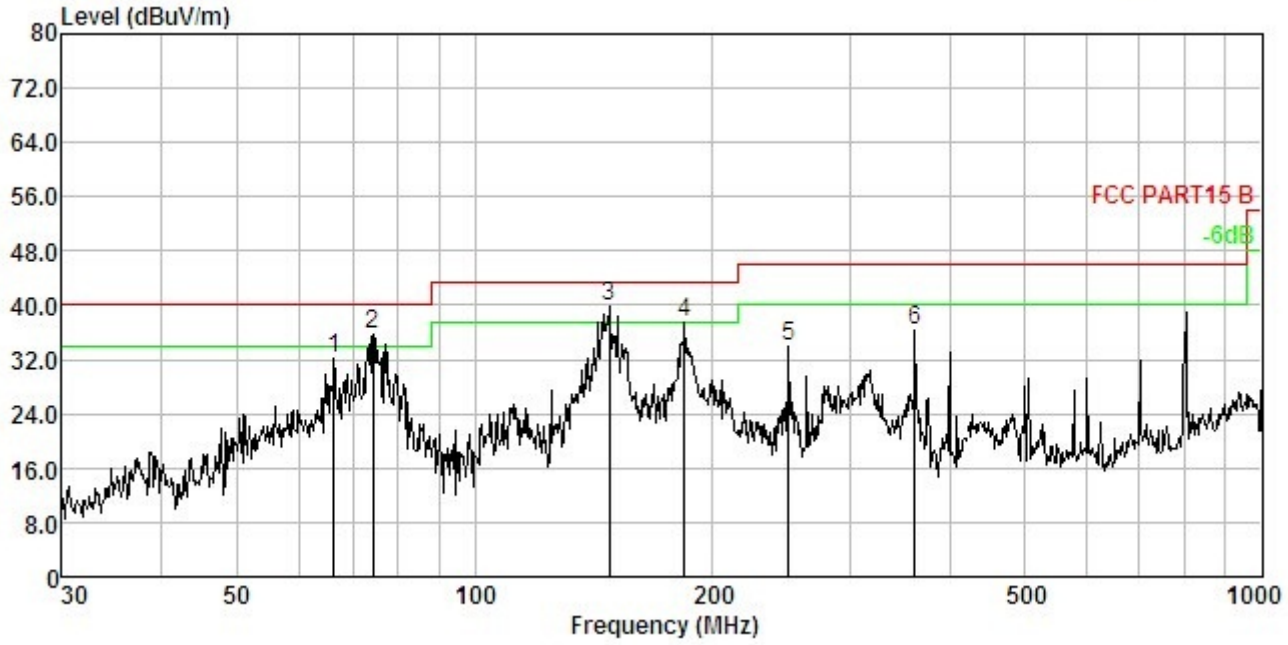
(7) The test mode(s) were scanned during the test:

(8) Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position,polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and Q.P./Peak reading is presented.

The test data of the worst case condition (mode 1) was reported on the Summary Data page.

## 9.4. TEST RESULT OF RADIATED EMISSION TEST

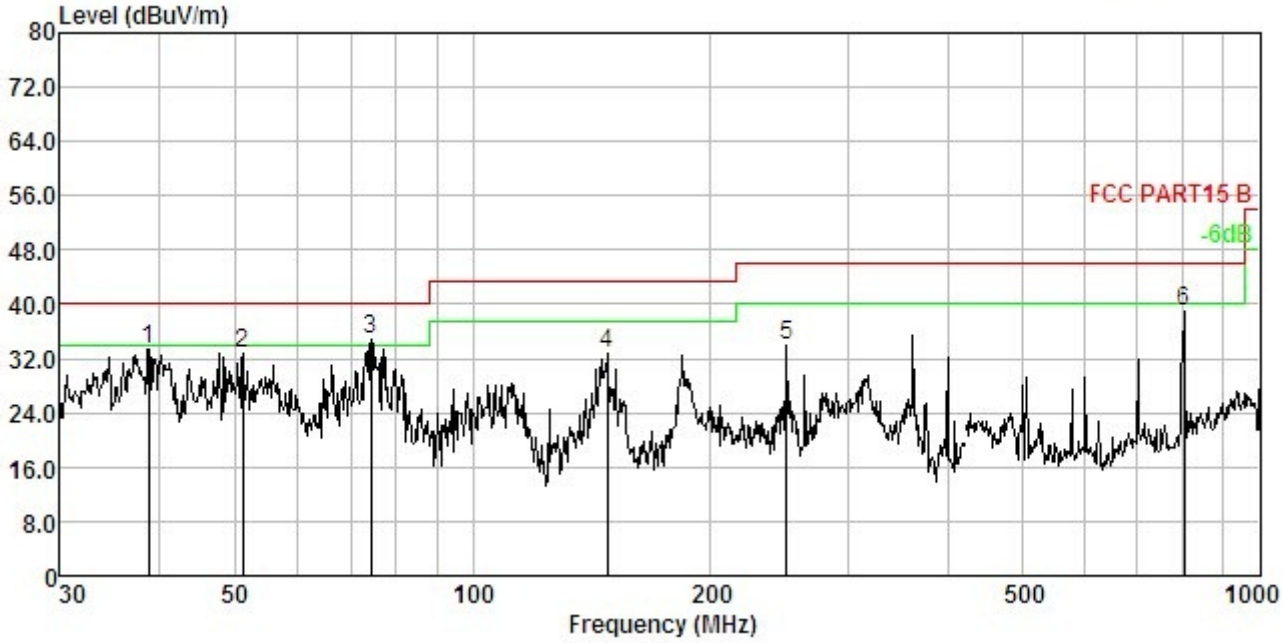
Radiated Emission Test at 3m Distance-Horizontal




| No. | Freq MHz | Cable Loss dB | ANT Factor dB/m | Receiver Reading dBuV | Preamp Factor dB | Emission Level dBuV/m | Limit dBuV/m | Over Limit dB | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1. | 66.266 | 1.77 | 11.36 | 49.21 | 30.25 | 32.09 | 40.00 | -7.91 | Peak |
| 2. | 74.396 | 1.88 | 9.88 | 54.34 | 30.29 | 35.81 | 40.00 | -4.19 | Peak |
| 3. | 147.921 | 2.50 | 13.79 | 54.01 | 30.53 | 39.77 | 43.50 | -3.73 | Peak |
| 4. | 184.490 | 2.70 | 11.83 | 53.67 | 30.60 | 37.60 | 43.50 | -5.90 | Peak |
| 5. | 250.301 | 2.98 | 11.93 | 49.60 | 30.71 | 33.80 | 46.00 | -12.20 | Peak |
| 6. | 361.714 | 3.31 | 14.43 | 49.40 | 30.84 | 36.30 | 46.00 | -9.70 | Peak |

**RESULT: PASS**

Radiated Emission Test at 3m Distance-Vertical



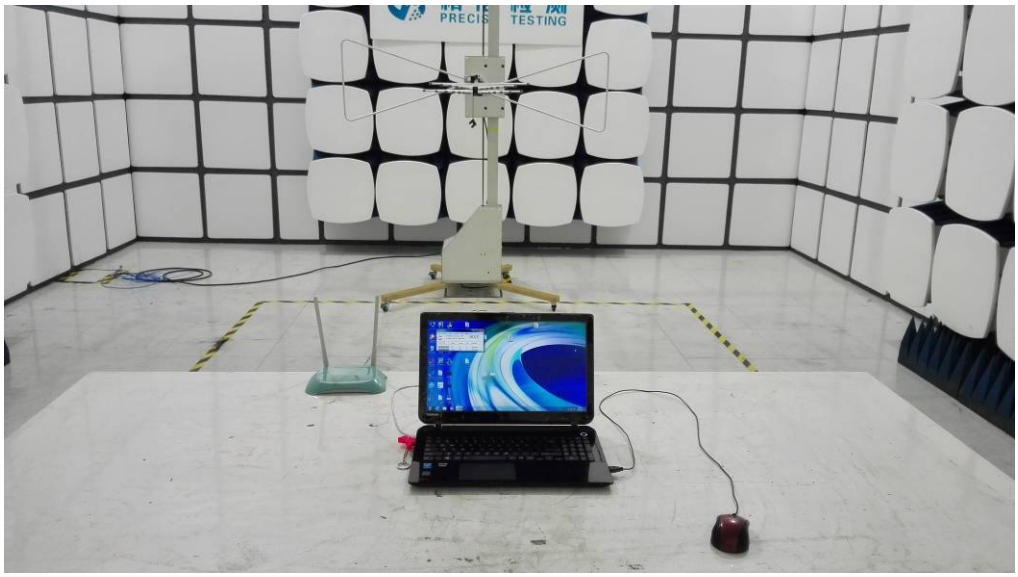

| No. | Freq MHz | Cable Loss dB | ANT Factor dB/m | Receiver Reading dBuV | Preamp Factor dB | Emission Level dBuV/m | Limit dBuV/m | Over Limit dB | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1. | 38.888 | 1.29 | 13.62 | 48.43 | 30.06 | 33.28 | 40.00 | -6.72 | Peak |
| 2. | 51.121 | 1.54 | 12.18 | 49.16 | 30.16 | 32.72 | 40.00 | -7.28 | Peak |
| 3. | 74.396 | 1.88 | 9.88 | 53.34 | 30.29 | 34.81 | 40.00 | -5.19 | Peak |
| 4. | 147.921 | 2.50 | 13.79 | 47.01 | 30.53 | 32.77 | 43.50 | -10.73 | Peak |
| 5. | 250.301 | 2.98 | 11.93 | 49.60 | 30.71 | 33.80 | 46.00 | -12.20 | Peak |
| 6. | 801.786 | 4.03 | 21.77 | 44.27 | 31.11 | 38.96 | 46.00 | -7.04 | Peak |

**RESULT: PASS**

# APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP

FCC RADIATED EMISSION TEST SETUP



# APPENDIX B: PHOTOGRAPHS OF EUT

ALL VIEW OF EUT-1

ALL VIEW OF EUT-2

TOP VIEW OF EUT

BOTTOM VIEW OF EUT

FRONT VIEW OF EUT

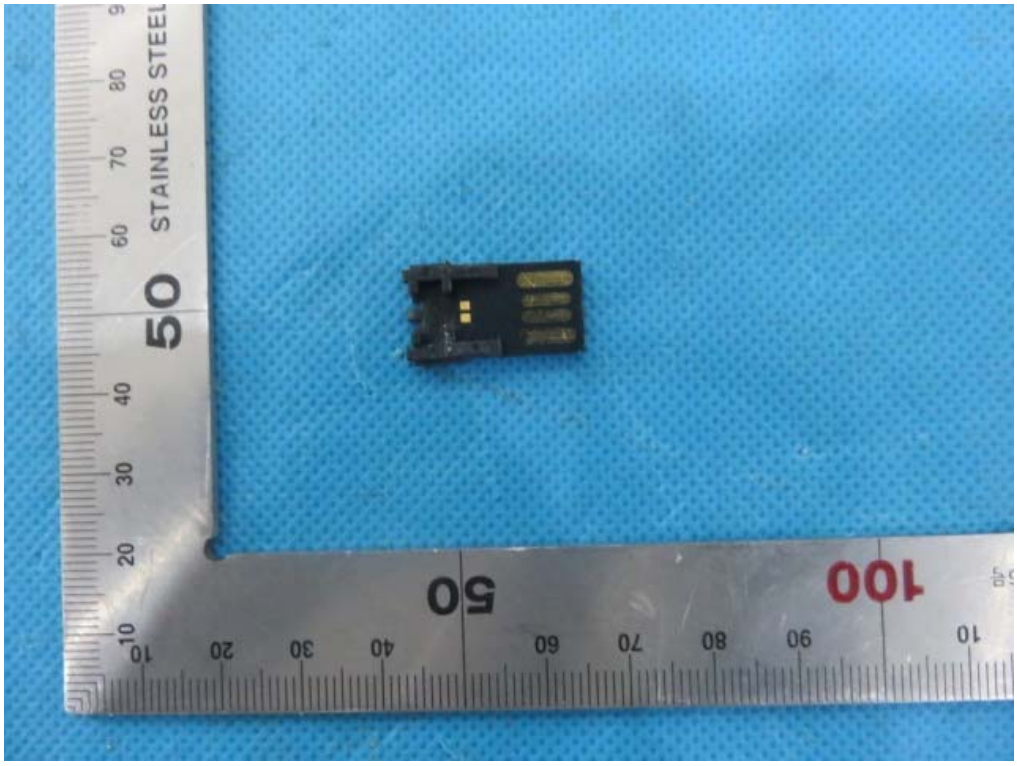
BACK VIEW OF EUT

LEFT VIEW OF EUT

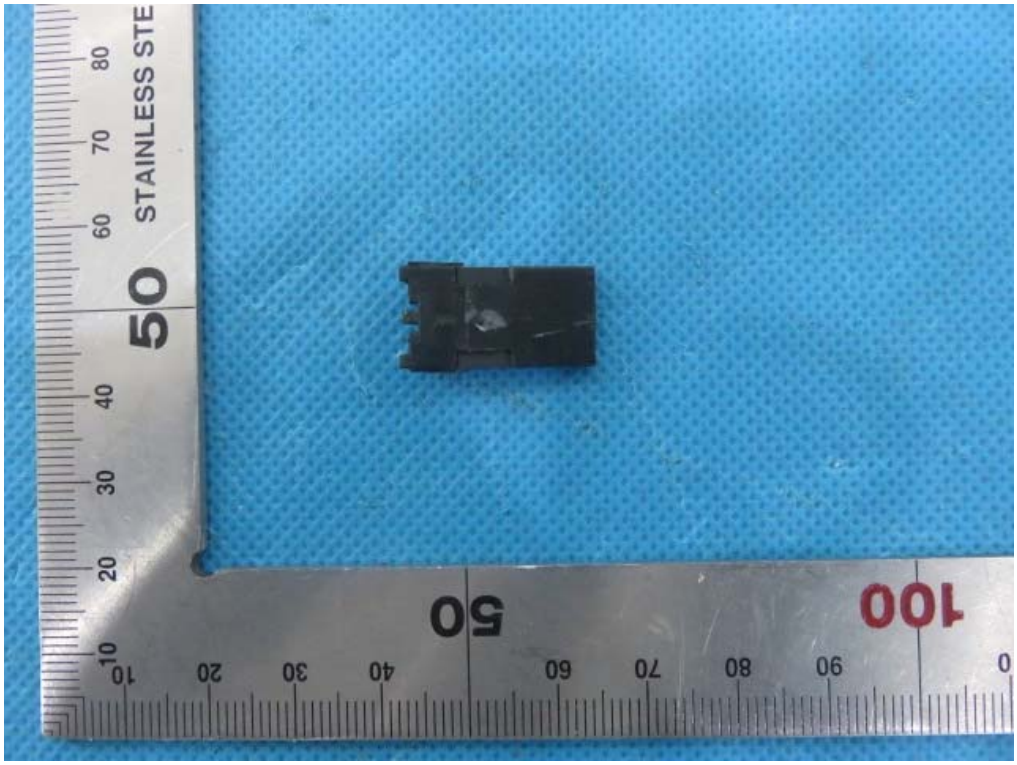
RIGHT VIEW OF EUT

OPEN VIEW OF EUT

INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2




**----END OF REPORT----**