

FCC Test Report

| APPLICANT | : | Sony Mobile Communications Inc. |
|----------------|---|--|
| EQUIPMENT | : | GSM/WCDMA/LTE Phone+Bluetooth, DTS/UNII |
| | | a/b/g/n and NFC |
| BRAND NAME | : | Sony |
| FCC ID | : | PY7-44253G |
| STANDARD | : | FCC 47 CFR FCC Part 15 Subpart B |
| CLASSIFICATION | : | FCC Class B personal computers and peripherals |

The product was received on May 01, 2017 and testing was completed on Jul. 19, 2017. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Louis Wu

Reviewed by: Louis Wu / Manager

Approved by: Jones Tsai / Manager



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SPORTON INTERNATIONAL INC. TEL : 886-3-327-3456 FAX : 886-3-328-4978 FCC ID : PY7-44253G Page Number: 1 of 25Report Issued Date: Jul. 19, 2017Report Version: Rev. 01Report Template No.: BU5-FD15B Version 1.3



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REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|-------------|---------|-------------------------|---------------|
| FC742208-01 | Rev. 01 | Initial issue of report | Jul. 19, 2017 |
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| Report Section | FCC Rule | C Rule Description Limit Result | | Result | Remark | |
|-------------------|----------|---------------------------------|-----------------|--------|--|--|
| 3.1 | 15.107 | AC Conducted Emission | < 15.107 limits | PASS | Under limit 12.60 dB at 0.158 MHz | |
| 3.2 | 15.109 | Radiated Emission | < 15.109 limits | PASS | Under limit 10.09 dB at 176.070 MHz | |

SUMMARY OF TEST RESULT



1. General Description

1.1. Applicant

Sony Mobile Communications Inc.

4-12-3 Higashi-Shinagawa, Shinagawa-ku, Tokyo, 140-0002, Japan

1.2. Manufacturer

Sony Mobile Communications Inc.

4-12-3 Higashi-Shinagawa, Shinagawa-ku, Tokyo, 140-0002, Japan

1.3. Product Feature of Equipment Under Test

| GSM/WCDMA/LTE, | Bluetooth, | DTS/UNII | a/b/g/n. | NFC. | and GPS |
|---|------------|----------|----------|----------|---------|
| ••••••••••••••••••••••••••••••••••••••• | , | | | ···· - , | |

| Product Specification subjective to this standard | | | | |
|---|--|--|--|--|
| WWAN: C-feed Antenna | | | | |
| WLAN: PIFA Antenna | | | | |
| Bluetooth: PIFA Antenna | | | | |
| GPS/Glonass: PIFA Antenna | | | | |
| NFC: Loop Antenna | | | | |
| | | | | |

| EUT Information List | | | | | | | |
|----------------------|------------|------------|--|--|--|--|--|
| HW Version | SW Version | S/N | Performed Test Item | | | | |
| А | 0.32 | RQ3004UPAF | Conducted Emission Radiated Spurious Emission | | | | |



| Accessory List | | | | |
|----------------|-----------------------|--|--|--|
| Formhone 4 | Model No. : MH410c | | | |
| Earphone 1 | S/N : 1632A86600000E0 | | | |
| E and a set o | Model No. : MH410c | | | |
| Earphone 2 | S/N : N/A | | | |
| USB Cable | Model No. : UCB20 | | | |
| | S/N : 1625A9100003A98 | | | |

Note:

- 1. Above EUT list and accessory list used are electrically identical per declared by manufacturer.
- 2. Above the accessories list are used to exercise the EUT during test.
- 3. For other wireless features of this EUT, test report will be issued separately.

1.4. Modification of EUT

No modifications are made to the EUT during all test items.



1.5. Test Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

| Test Site | SPORTON INTERNATIONAL INC. | | | |
|-----------------------|---|-----------|--|--|
| T. (0)(1) (1) (1) | No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, | | | |
| | Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. | | | |
| Test Site Location | TEL: +886-3-327-3456 | | | |
| | FAX: +886-3-328-4978 | | | |
| Test Offende | Sporton | Site No. | | |
| Test Site No. | CO05-HY | 03CH06-HY | | |

1.6. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC 47 CFR FCC Part 15 Subpart B
- ANSI C63.4-2014

Remark:

- 1. All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. For FCC 15 Subpart B Unintentional Radiators, device supporting USB interface or similar peripherals (defined as the Section 15.3 (r) Peripheral device) acting as a peripheral for personal computers shall be authorized as "The Class B personal computers and peripherals" per the Section 15.101 (a) Equipment authorization of unintentional radiators.
- 3. For other Unintentional Radiators features of this EUT, test reports are be issued separately. Per the Note of the Section 15.101, when device supports features (USB, FM Radio, digital devices...etc) more than one category of authorization, type of authorization shall be appropriately chosen for FCC 15B compliance rule, and the Section 15.101 (b), only those receivers that operate (tune) within the frequency range of 30-960 MHz, CB receivers and radar detectors are subject to the authorizations shown in paragraph (a) of the Section 15.101. However, receivers indicated as being subject to Declaration of Conformity that are contained within a transceiver, the transmitter portion of which is subject to certification, shall be authorized under the verification procedure.



2. Test Configuration of Equipment Under Test

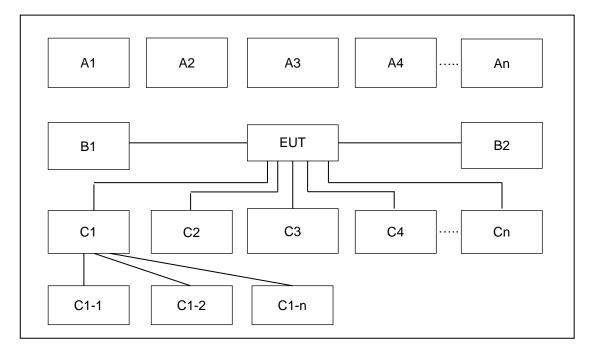
2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

| Test Items | Function Type | | | |
|--|--|--|--|--|
| AC Conducted | Mode 1: Flight Mode + USB Cable (Data Link with Notebook) + Battery + Earphone 1 | | | |
| Emission | Mode 2: Flight Mode + USB Cable (Data Link with Notebook) + Battery + Earphone 2 | | | |
| Radiated | Mode 1: Flight Mode + USB Cable (Data Link with Notebook) + Battery + Earphone 1 | | | |
| Emissions | Mode 2: Flight Mode + USB Cable (Data Link with Notebook) + Battery + Earphone 2 | | | |
| Remark:Data Link with Notebook means data application transferred mode between EUT and | | | | |
| Notebook. | Notebook. | | | |



2.2. Connection Diagram of Test System



| | Test Setup | | | | | | | | | |
|------|--------------------|-------------------|---|-----------|---|---|---|---|---|--|
| No. | Setup Peripherals | | | Test Mode | | | | | | |
| NO. | Setup Periprierais | Connection Type | 1 | 2 | - | - | - | - | - | |
| C1 | Notebook | USB cable | Х | Х | | | | | | |
| C1-2 | Music Player | USB Cable to C1 | Х | Х | | | | | | |
| C1-3 | AP Router | RJ-45 Cable to C1 | Х | Х | | | | | | |
| C2 | Earphone | Earphone jack | Х | Х | | | | | | |
| 00 | SD card | SD I/O interface | v | x | | | | | | |
| C3 | | without cable | Х | | | | | | | |



| 2.3. | Support Unit used in | test configuration and system |
|------|----------------------|-------------------------------|
|------|----------------------|-------------------------------|

| Item | Equipment | Trade Name | Model Name | FCC ID | Data Cable | Power Cord |
|------|--------------|------------|-------------------|--|------------|--|
| 1. | WLAN AP | ASUS | RT-AC66U | MSQ-RTAC66U | N/A | Unshielded, 1.8 m |
| 2. | Notebook | DELL | Latitude E6320 | FCC DoC/ Contains FCC ID: QDS-BRCM1054 | N/A | AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m |
| 3. | Music Player | N/A | N/A | N/A | N/A | N/A |
| 4. | SD Card | SanDisk | MicroSD HC | FCC DoC | N/A | N/A |

2.4. EUT Operation Test Setup

The data application (each file size is greater than 30Mbytes) is continuously transferred between the EUT and Notebook connected via USB cable, while Flight mode.



3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

| Frequency of emission | Conducted | limit (dBuV) |
|-----------------------|------------|--------------|
| (MHz) | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

*Decreases with the logarithm of the frequency.

3.1.2 Measuring Instruments

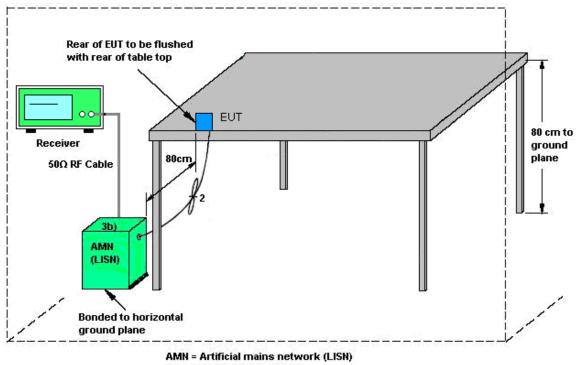
The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedure

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.



3.1.4 Test Setup



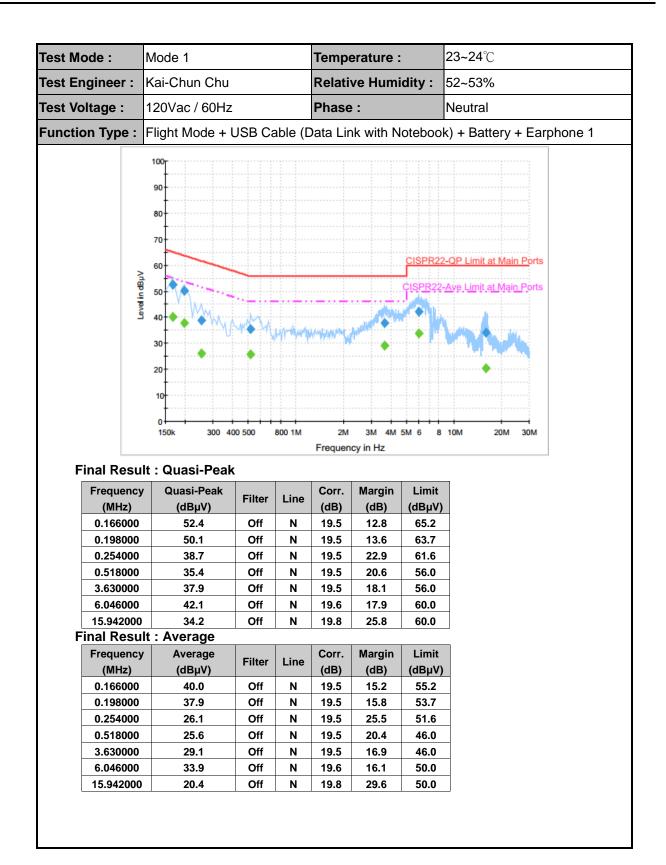
- AE = Associated equipment
- EUT = Equipment under test
- ISN = Impedance stabilization network



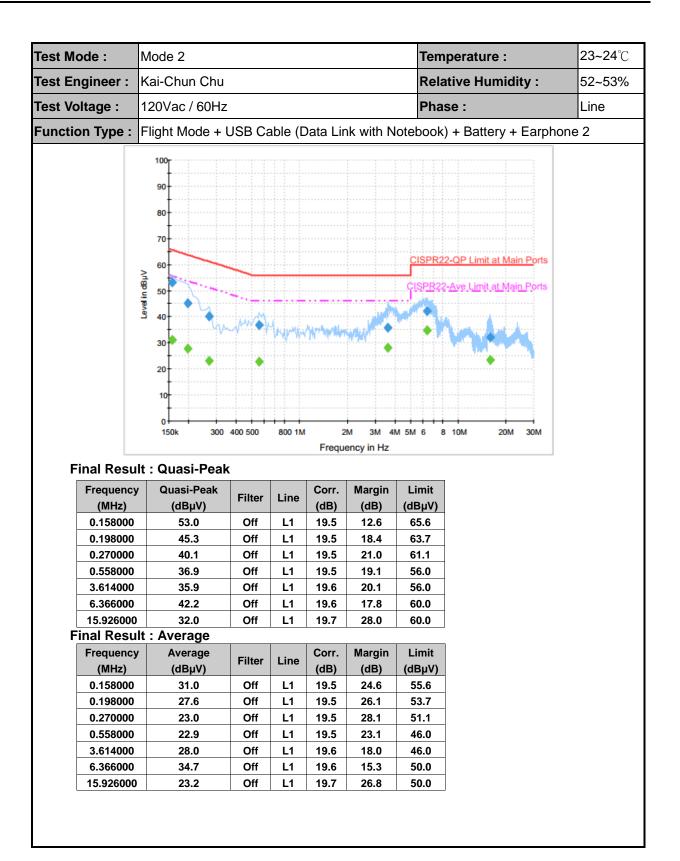
3.1.5 Test Result of AC Conducted Emission

| st Mode : | Mode 1 | | | Temperature : | | | 23~24 ℃ | |
|---|---|---|--|--|--|--|--|--|
| st Engineer : | Kai-Chun Chu | | | Relative Humidity : | | idity : | 52~53% | |
| st Voltage : | 120Vac / 60Hz | | | Phase : | | | Line | |
| nction Type : | Flight Mode + I | JSB Ca | able (D | ata Lir | nk with N | loteboo | k) + Battery + Earphone | |
| Level in dBuV | | ///*** | | | | | QP Limit at Main Ports Ave, Limit at Main Ports | |
| | 0 1 1 1 150k 300 40 | 0 500 8 | 300 1M | 2M Frequen | | 5M 6 8 | 10M 20M 30M | |
| | lt : Quasi-Peak | <u> </u> | | | cy in Hz | 5M 6 8 | 10M 20M 30M | |
| Final Resu Frequency (MHz) | lt : Quasi-Peak | | Line | Frequen | | | | |
| Frequency (MHz) 0.190000 | It : Quasi-Peak v Quasi-Peak (dBµV) 48.4 | <u> </u> | | Frequen Corr. (dB) 19.5 | Margin (dB) 15.6 | Limit (dBµV) 64.0 | | |
| Frequency (MHz) 0.190000 0.254000 | It : Quasi-Peak / Quasi-Peak (dBµV) 48.4 38.7 | Filter Off Off | Line L1 L1 | Frequen Corr. (dB) 19.5 19.5 | Cy in Hz Margin (dB) 15.6 22.9 | Limit (dBµV) 64.0 61.6 | | |
| Frequency (MHz) 0.190000 0.254000 0.318000 | It : Quasi-Peak Quasi-Peak (dBµV) 48.4 38.7 31.4 | Filter Off Off Off | Line L1 L1 L1 | Frequent Corr. (dB) 19.5 19.5 19.5 | Margin (dB) 15.6 22.9 28.4 | Limit (dBµV) 64.0 61.6 59.8 | | |
| Frequency (MHz) 0.190000 0.254000 0.318000 0.590000 | It : Quasi-Peak Quasi-Peak (dBµV) 48.4 38.7 31.4 37.8 | Filter Off Off Off Off | Line L1 L1 L1 L1 | Frequent (dB) 19.5 19.5 19.5 19.5 | Margin (dB) 15.6 22.9 28.4 18.2 | Limit (dBµV) 64.0 61.6 59.8 56.0 | | |
| Frequency (MHz) 0.190000 0.254000 0.318000 0.590000 3.926000 | It : Quasi-Peak (dBµV) 48.4 38.7 31.4 37.8 35.6 | Filter Off Off Off Off Off | Line L1 L1 L1 L1 L1 L1 | Frequen (dB) 19.5 19.5 19.5 19.5 19.5 19.5 | Margin (dB) 15.6 22.9 28.4 18.2 20.4 | Limit (dBµV) 64.0 61.6 59.8 56.0 56.0 | | |
| Frequency (MHz) 0.190000 0.254000 0.318000 0.590000 3.926000 6.246000 | It : Quasi-Peak (dBµV) 48.4 38.7 31.4 37.8 35.6 38.2 | Filter Off Off Off Off Off Off | Line L1 L1 L1 L1 L1 L1 | Frequen (dB) 19.5 19.5 19.5 19.5 19.6 19.6 | Margin (dB) 15.6 22.9 28.4 18.2 20.4 21.8 | Limit (dBµV) 64.0 61.6 59.8 56.0 56.0 60.0 | | |
| Frequency (MHz) 0.190000 0.254000 0.318000 0.590000 3.926000 6.246000 15.822000 | It : Quasi-Peak (dBµV) 48.4 38.7 31.4 37.8 35.6 38.2 32.8 | Filter Off Off Off Off Off | Line L1 L1 L1 L1 L1 L1 | Frequen (dB) 19.5 19.5 19.5 19.5 19.5 19.5 | Margin (dB) 15.6 22.9 28.4 18.2 20.4 | Limit (dBµV) 64.0 61.6 59.8 56.0 56.0 | | |
| Frequency (MHz) 0.190000 0.254000 0.318000 0.590000 3.926000 6.246000 15.822000 | It : Quasi-Peak (dBµV) 48.4 38.7 31.4 37.8 35.6 38.2 32.8 It : Average | Filter Off Off Off Off Off Off Off | Line L1 L1 L1 L1 L1 L1 L1 L1 | Frequen (dB) 19.5 19.5 19.5 19.5 19.6 19.6 | Margin (dB) 15.6 22.9 28.4 18.2 20.4 21.8 | Limit (dBµV) 64.0 61.6 59.8 56.0 56.0 60.0 | | |
| Frequency (MHz) 0.190000 0.254000 0.318000 0.590000 3.926000 6.246000 15.822000 Final Resu | It : Quasi-Peak (dBµV) 48.4 38.7 31.4 37.8 35.6 38.2 32.8 It : Average | Filter Off Off Off Off Off Off | Line L1 L1 L1 L1 L1 L1 | Frequen Corr. (dB) 19.5 19.5 19.5 19.5 19.6 19.6 19.7 | Cy in Hz Margin (dB) 15.6 22.9 28.4 18.2 20.4 21.8 27.2 | Limit (dBµV) 64.0 61.6 59.8 56.0 56.0 60.0 60.0 | | |
| Frequency (MHz) 0.190000 0.254000 0.318000 0.590000 3.926000 6.246000 15.822000 Final Resu Frequency | It : Quasi-Peak (dBµV) 48.4 38.7 31.4 37.8 35.6 38.2 32.8 It : Average Average | Filter Off Off Off Off Off Off Off | Line L1 L1 L1 L1 L1 L1 L1 L1 | Frequen (dB) 19.5 19.5 19.5 19.5 19.6 19.6 19.6 19.7 | Margin (dB) 15.6 22.9 28.4 18.2 20.4 21.8 27.2 Margin | Limit (dBµV) 64.0 61.6 59.8 56.0 56.0 60.0 60.0 Limit | | |
| Frequency (MHz) 0.190000 0.254000 0.318000 0.590000 3.926000 6.246000 15.822000 Final Resu Frequency (MHz) | It : Quasi-Peak (dBµV) 48.4 38.7 31.4 37.8 35.6 38.2 32.8 It : Average (dBµV) | Filter Off Off Off Off Off Off Off Filter | Line L1 L1 L1 L1 L1 L1 L1 L1 L1 | Frequen (dB) 19.5 19.5 19.5 19.5 19.6 19.6 19.6 19.7 Corr. (dB) | Margin (dB) 15.6 22.9 28.4 18.2 20.4 21.8 27.2 Margin (dB) | Limit (dBµV) 64.0 61.6 59.8 56.0 56.0 60.0 60.0 Limit (dBµV) | | |
| Frequency (MHz) 0.190000 0.254000 0.318000 0.590000 3.926000 6.246000 15.822000 Final Resu Frequency (MHz) 0.190000 | It : Quasi-Peak (dBµV) 48.4 38.7 31.4 37.8 35.6 38.2 32.8 It : Average (dBµV) 34.6 | Filter Off Off Off Off Off Off Off Filter | Line L1 L1 L1 L1 L1 L1 L1 L1 L1 | Frequen (dB) 19.5 19.5 19.5 19.5 19.6 19.6 19.6 19.7 Corr. (dB) 19.5 | Margin (dB) 15.6 22.9 28.4 18.2 20.4 21.8 27.2 Margin (dB) 19.4 | Limit (dBµV) 64.0 61.6 59.8 56.0 56.0 60.0 60.0 60.0 Limit (dBµV) 54.0 | | |
| Frequency (MHz) 0.190000 0.254000 0.318000 0.590000 3.926000 6.246000 15.822000 Final Resu Frequency (MHz) 0.190000 0.254000 | It : Quasi-Peak (dBµV) 48.4 38.7 31.4 37.8 35.6 38.2 32.8 It : Average (dBµV) 34.6 24.9 | Filter Off Off Off Off Off Off Off Filter | Line L1 L1 L1 L1 L1 L1 L1 L1 L1 | Frequen (dB) 19.5 19.5 19.5 19.5 19.6 19.6 19.6 19.7 Corr. (dB) 19.5 19.5 | Margin (dB) 15.6 22.9 28.4 18.2 20.4 21.8 27.2 Margin (dB) 19.4 26.7 | Limit (dBµV) 64.0 61.6 59.8 56.0 56.0 60.0 60.0 60.0 Limit (dBµV) 54.0 51.6 | | |
| Frequency (MHz) 0.190000 0.254000 0.318000 0.590000 3.926000 6.246000 15.822000 Final Resu Frequency (MHz) 0.190000 0.254000 0.318000 | It : Quasi-Peak (dBµV) 48.4 38.7 31.4 37.8 35.6 38.2 32.8 It : Average (dBµV) 34.6 24.9 20.7 | Filter Off Off Off Off Off Off Off Filter | Line L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 | Frequen (dB) 19.5 19.5 19.5 19.5 19.6 19.6 19.7 (dB) 19.5 19.5 19.5 | Margin (dB) 15.6 22.9 28.4 18.2 20.4 21.8 27.2 Margin (dB) 19.4 26.7 29.1 | Limit (dBµV) 64.0 61.6 59.8 56.0 56.0 60.0 60.0 Climit (dBµV) 54.0 51.6 49.8 | | |
| Frequency (MHz) 0.190000 0.254000 0.318000 0.590000 3.926000 6.246000 15.822000 Final Resu Frequency (MHz) 0.190000 0.254000 0.318000 0.590000 | It : Quasi-Peak (dBµV) 48.4 38.7 31.4 37.8 35.6 38.2 32.8 It : Average (dBµV) 34.6 24.9 20.7 23.5 27.9 30.4 | Filter Off Off Off Off Off Off Off Filter Off Off Off Off | Line L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 | Frequen (dB) 19.5 19.5 19.5 19.5 19.6 19.6 19.6 19.7 Corr. (dB) 19.5 19.5 19.5 | Margin (dB) 15.6 22.9 28.4 18.2 20.4 21.8 27.2 Margin (dB) 19.4 26.7 29.1 22.5 | Limit (dBµV) 64.0 61.6 59.8 56.0 56.0 60.0 60.0 60.0 60.0 Limit (dBµV) 54.0 51.6 49.8 46.0 | | |

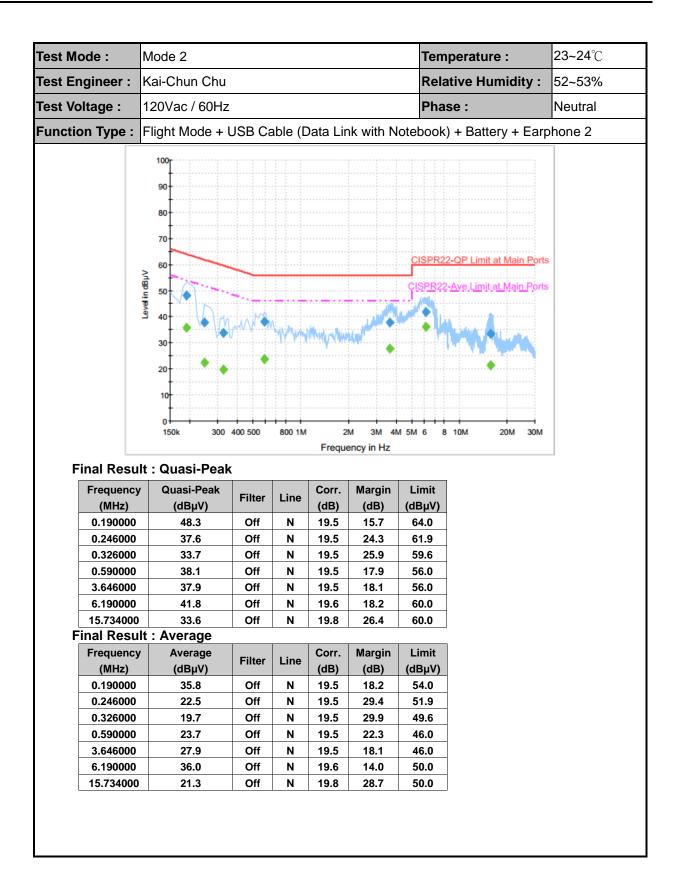














3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency | Field Strength | Measurement Distance |
|-----------|--------------------|----------------------|
| (MHz) | (microvolts/meter) | (meters) |
| 30 – 88 | 100 | 3 |
| 88 – 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| Above 960 | 500 | 3 |

3.2.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

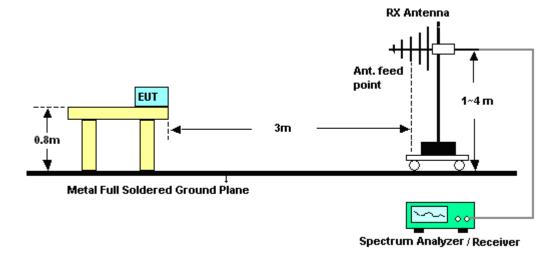
3.2.3. Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
- 7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
- 8. Emission level (dB μ V/m) = 20 log Emission level (μ V/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level.

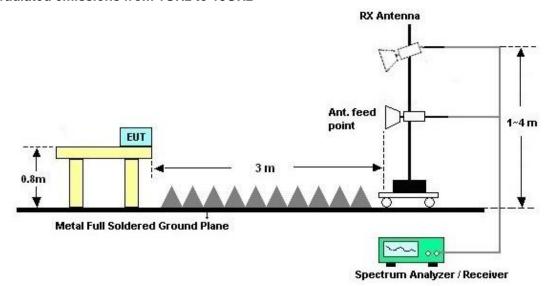


3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz

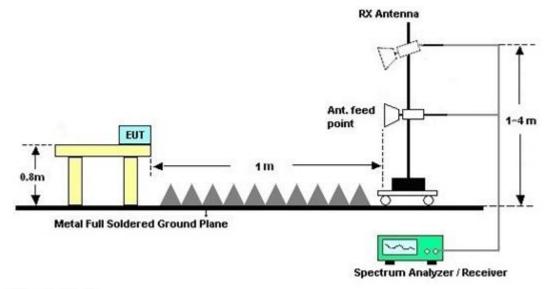


For radiated emissions from 1GHz to 18GHz







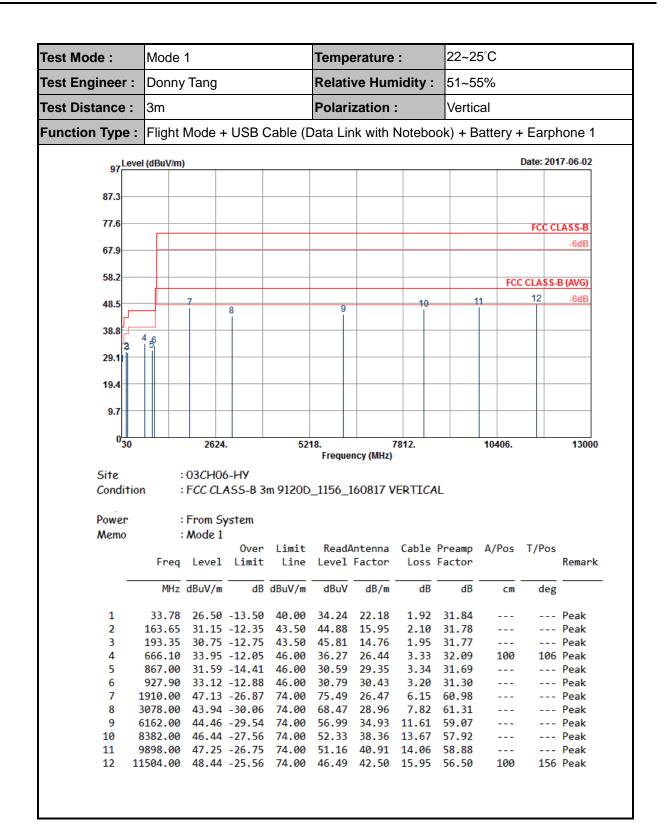




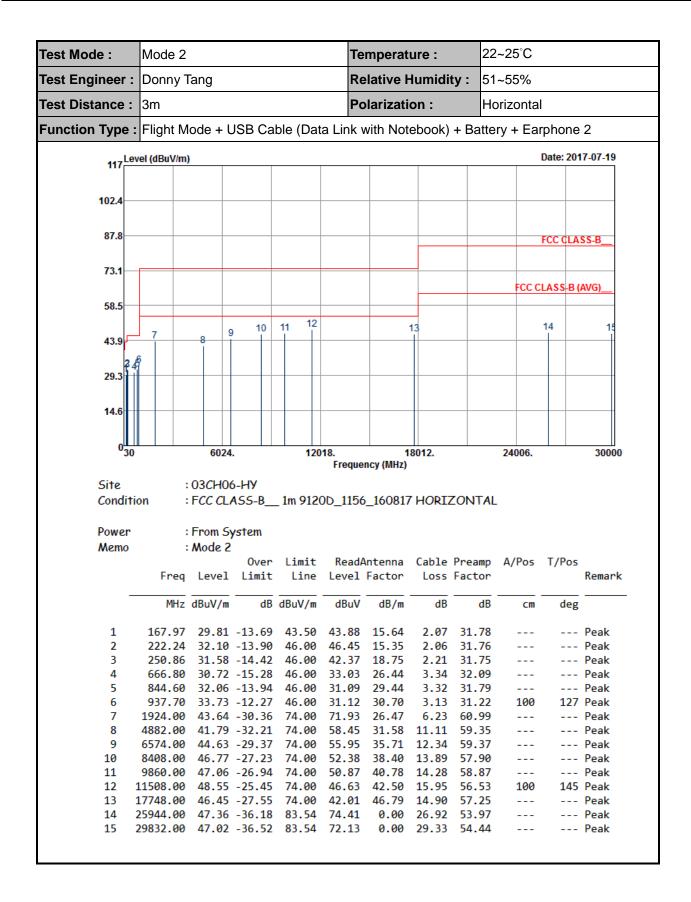
3.2.5. Test Result of Radiated Emission

| Test Mode : | Mode | 1 | | | Tempe | erature | : | 22~2 | 5°C | | |
|--|--|---|---|--|--|--|---|--|-----------|---------------------------|---|
| Test Engineer : | Donny Tang | | | | Relativ | ve Hun | nidity : | 51~5 | 51~55% | | |
| Test Distance : | 3m | | | | Polari | zation | : | Horizontal | | | |
| Function Type : Flight Mode + USB Cable (E | | | | Data Lir | k with l | Notebo | ok) + B | attery | + Earp | phone 1 | |
| Lev | el (dBuV/m) |) | | | | | | | | Date: 2 | 017-06-02 |
| 9/ | | | | | | | | | | | |
| 87.3 | | | | | | | | | | | |
| 77.6 | | | | | | | | | | FCC | CLASS-B |
| | | | | | | | | | | 100 | -6dB |
| 67.9 | | | | | | | | | | | |
| 58.2 | | | | | | | | | FC | C CLASS | S-B (AVG) |
| 48.5 | | | | | | | 1 | 0 | 11 | 12 | -6dB |
| | | 7 | | 8 | | 9 | | | | | |
| 38.8 | 45 | | | | | | | | | | |
| 29.1 | <u> </u> - | | | | | | | | | | |
| | | | | | | | | | | | |
| 19.4 | | | | | | | | | | | |
| | | | | | | | | | | | |
| 9.7 | | | | | | | | | | | |
| | | | | | | | | | | | |
| 9.7 0 | | 2624. | | 521 | | | 7812. | | 10406. | | 13000 |
| | | 2624. 03CH06 | | 521 | | ncy (MHz) | 7812. | | 10406. | | 13000 |
| 0 <mark>30</mark> | | | Б-НУ | | Freque | ncy (MHz) | | NTAL | 10406. | | 13000 |
| 0 ₃₀ Site Conditio | on : | 03CH06 FCC CLA | 5-НУ 455-В 3 | | Freque | ncy (MHz) | | NTAL | 10406. | | 13000 |
| 0 ₃₀ Site Conditio Power | on : | 03CH06 FCC CLA | 5-НУ 455-В 3 | | Freque | ncy (MHz) | | NTAL | 10406. | | 13000 |
| 0 ₃₀ Site Conditio | on : : | 03CH06 FCC CLA From Sy Mode 1 | 5-HY ASS-B3 vstem Over | m 9120D | Frequer _1156_1 ReadA | ncy (MHz) 60817 ŀ ntenna | IORIZO | | | T/Po | |
| 0 ₃₀ Site Conditio Power | on : : | 03CH06 FCC CLA | 5-HY ASS-B3 vstem Over | m 9120D | Freque: | ncy (MHz) 60817 ŀ ntenna | (ORIZO Cable | | | T/Po | |
| 0 ₃₀ Site Conditio Power | on : : Freq | 03CH06 FCC CLA From Sy Mode 1 | 5-HY ASS-B3 Vstem Over Limit | m 9120D | Frequer _1156_1 ReadA | ncy (MHz) 60817 ŀ ntenna | (ORIZO Cable | Preamp | | T/Po de | s Remark |
| 0 ₃₀ Site Conditio Power | on : : Freq | 03CH06 FCC CLA From Sy Mode 1 Level | o-HY ASS-B 3 vstem Over Limit dB | m 9120D Limit Line dBuV/m | Freques _1156_1 ReadA Leve1 dBuV | ncy (MHz) 60817 F ntenna Factor dB/m | łORIZO Cable Loss dB | Preamp Factor | A/Pos | de | s Remark |
| 0 ₃₀ Site Conditio Power Memo | on : : Freq MHz 30.00 171.48 | 03CH06 FCC CLA From Sy Mode 1 Level dBuV/m 23.21 30.03 | 0-HY ASS-B 3 //stem Over Limit dB -16.79 -13.47 | m 91200 Limit Line dBuV/m 40.00 43.50 | Freques _1156_1 ReadA Leve1 dBuV 28.85 44.42 | ncy (MHz) 60817 F ntenna Factor dB/m 24.30 15.34 | IORIZO Cable Loss dB 1.90 2.05 | Preamp Factor dB 31.84 31.78 | A/Pos | de, | s Remark g - Peak - Peak |
| 0 ₃₀ Site Conditio Power Memo | on : Freq MHz 30.00 171.48 225.75 | 03CH06 FCC CLA From Sy Mode 1 Level dBuV/m 23.21 30.03 31.86 | 0-HY ASS-B 3 vstem Over Limit dB -16.79 -13.47 -14.14 | m 91200 Limit Line dBuV/m 40.00 43.50 46.00 | Freques | ncy (MHz) 60817 F ntenna Factor dB/m 24.30 15.34 15.76 | IORIZO Cable Loss dB 1.90 2.05 2.08 | Preamp Factor dB 31.84 31.78 31.76 | A/Pos | de | s Remark g - Peak - Peak - Peak - Peak |
| 0 ₃₀ Site Conditio Power Memo | on : Freq MHz 30.00 171.48 225.75 664.70 | 03CH06 FCC CLA From Sy Mode 1 Level dBuV/m 23.21 30.03 | 0-HY ASS-B 3 //stem Over Limit -16.79 -13.47 -14.14 -13.67 | m 9120D Limit Line dBuV/m 40.00 43.50 46.00 46.00 | Freques | ncy (MHz) 60817 F ntenna Factor dB/m 24.30 15.34 15.76 26.42 | ORIZO Cable Loss dB 1.90 2.05 2.08 3.33 | Preamp Factor dB 31.84 31.78 31.76 32.09 | A/Pos | de | s Remark g - Peak - Peak |
| 0 ₃₀ Site Conditio Power Memo 1 2 3 4 5 6 | on : Freq MHz 30.00 171.48 225.75 664.70 897.80 958.00 | 03CH06 FCC CLA From Sy Mode 1 Level dBuV/m 23.21 30.03 31.86 32.33 32.97 33.63 | 0-HY ASS-B 3 vstem 0ver Limit -16.79 -13.47 -14.14 -13.67 -13.03 -12.37 | m 9120D Limit Line dBuV/m 40.00 43.50 46.00 46.00 46.00 46.00 | Freques | ncy (MHz) 60817 F ntenna Factor dB/m 24.30 15.34 15.76 26.42 29.51 31.06 | ORIZO Cable Loss dB 1.90 2.05 2.08 3.33 3.39 3.06 | Preamp Factor dB 31.84 31.78 31.76 32.09 31.56 31.04 | A/Pos | de 13 | s Remark g - Peak - Peak - Peak - Peak - Peak - Peak 7 Peak |
| 0 ₃₀ Site Conditio Power Memo 1 2 3 4 5 6 7 | on : Freq MHz 30.00 171.48 225.75 664.70 897.80 958.00 1894.00 | 03CH06 FCC CLA From Sy Mode 1 Level dBuV/m 23.21 30.03 31.86 32.33 32.97 33.63 43.74 | 0-HY ASS-B 3 vstem 0ver Limit -16.79 -13.47 -14.14 -13.67 -13.03 -12.37 -30.26 | m 91200 Limit Line dBuV/m 40.00 43.50 46.00 46.00 46.00 46.00 74.00 | Freques | ncy (MHz) 60817 F ntenna Factor dB/m 24.30 15.34 15.76 26.42 29.51 31.06 26.42 | ORIZO Cable Loss dB 1.90 2.05 2.08 3.33 3.39 3.06 6.15 | Preamp Factor dB 31.84 31.78 31.76 32.09 31.56 31.04 60.98 | A/Pos | de 13 | s Remark g - Peak - Peak - Peak - Peak - Peak - Peak - Peak - Peak |
| 0 ₃₀ Site Conditio Power Memo 1 2 3 4 5 6 7 8 | on : Freq MHz 30.00 171.48 225.75 664.70 897.80 958.00 | 03CH06 FCC CLA From Sy Mode 1 Level dBuV/m 23.21 30.03 31.86 32.33 32.97 33.63 43.74 41.52 | 0-HY ASS-B 3 vstem 0ver Limit -16.79 -13.47 -14.14 -13.67 -13.03 -12.37 -30.26 -32.48 | m 9120D Limit Line dBuV/m 40.00 43.50 46.00 46.00 46.00 46.00 74.00 74.00 | Freques | ncy (MHz) 60817 F ntenna Factor dB/m 24.30 15.34 15.76 26.42 29.51 31.06 26.42 31.68 | ORIZO Cable Loss dB 1.90 2.05 2.08 3.33 3.39 3.06 6.15 11.17 | Preamp Factor dB 31.84 31.78 31.76 32.09 31.56 31.04 60.98 59.19 | A/Pos | de 13 | s Remark g - Peak - Peak - Peak - Peak - Peak - Peak 7 Peak |
| 030 Site Conditio Power Memo 1 2 3 4 5 6 7 8 9 10 | on : Freq MHz 30.00 171.48 225.75 664.70 897.80 958.00 1894.00 4928.00 | 03CH06 FCC CLA From Sy Mode 1 Level dBuV/m 23.21 30.03 31.86 32.33 32.97 33.63 43.74 41.52 44.99 46.65 | o-HY ASS-B 3 vstem Over Limit -16.79 -13.47 -14.14 -13.67 -13.03 -12.37 -30.26 -32.48 -29.01 -27.35 | m 9120D Limit Line dBuV/m 40.00 43.50 46.00 46.00 46.00 46.00 74.00 74.00 74.00 74.00 | Freques | ntenna Factor dB/m 24.30 15.34 15.76 26.42 29.51 31.06 26.42 31.68 35.63 38.29 | ORIZO Cable Loss dB 1.90 2.05 2.08 3.33 3.06 6.15 11.17 12.27 14.48 | Preamp Factor dB 31.84 31.78 31.76 32.09 31.56 31.04 60.98 59.19 59.39 58.11 | A/Pos | de, 13 | s Remark - Peak - Peak - Peak - Peak - Peak - Peak - Peak - Peak - Peak - Peak |



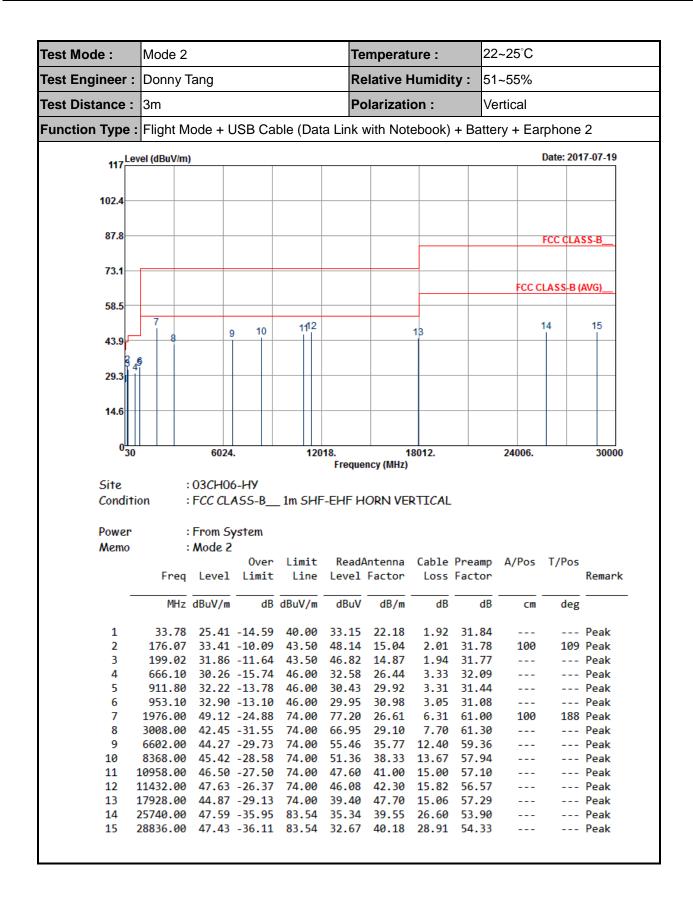






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4. List of Measuring Equipment

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|-------------------------|--------------------|----------------------------|------------------------------------|----------------------------------|---------------------|--------------------------------|---------------|--------------------------|
| AC Power Source | ChainTek | APC-1000W | N/A | N/A | N/A | May 28, 2017 | N/A | Conduction (CO05-HY) |
| EMI Test Receiver | Rohde & Schwarz | ESCI 7 | 100724 | 9kHz~7GHz | Aug. 30, 2016 | May 28, 2017 | Aug. 29, 2017 | Conduction (CO05-HY) |
| Hygrometer | Testo | 608-H1 | 34913912 | N/A | May 02, 2017 | May 28, 2017 | May 01, 2018 | Conduction (CO05-HY) |
| LISN | Rohde & Schwarz | ENV216 | 100080 | 9kHz~30MHz | Nov. 29, 2016 | May 28, 2017 | Nov. 28, 2017 | Conduction (CO05-HY) |
| LISN | Rohde & Schwarz | ENV216 | 100081 | 9kHz~30MHz | Dec. 06, 2016 | May 28, 2017 | Dec. 05, 2017 | Conduction (CO05-HY) |
| LF Cable | HUBER + SUHNER | RG-214/U | LF01 | N/A | Jan. 05, 2017 | May 28, 2017 | Jan. 04, 2018 | Conduction (CO05-HY) |
| Test Software | N/A | EMC32 | 8.40.0 | N/A | N/A | May 28, 2017 | N/A | Conduction (CO05-HY) |
| Bilog Antenna | Schaffner | CBL6111C&N- 6-06 | 2725&AT-N06 01 | 30MHz~1GHz | Oct. 15, 2016 | May 30, 2017~ Jun. 02, 2017 | Oct. 14, 2017 | Radiation (03CH06-HY) |
| EMI Test Receiver | Rohde & Schwarz | ESU26 | 100472 | 20Hz~26.5GHz | Dec. 29, 2016 | May 30, 2017~ Jun. 02, 2017 | Dec. 28, 2017 | Radiation (03CH06-HY) |
| Spectrum Analyzer | Keysight | N9010A | MY54200485 | 10Hz ~ 44GHz | Oct. 17, 2016 | Jul. 19, 2017 | Oct. 16, 2017 | Radiation (03CH06-HY) |
| Horn Antenna | SCHWARZBE CK | BBHA 9120 D | 9120D-1156 | 1GHz~18GHz | Aug. 05, 2016 | May 30, 2017~ Jun. 02, 2017 | Aug. 04, 2017 | Radiation (03CH06-HY) |
| SHF-EHF Horn Antenna | SCHWARZBE CK | BBHA 9170 | BBHA917058 4 | 18GHz- 40GHz | Nov. 08, 2016 | May 30, 2017~ Jul. 19, 2017 | Nov. 07, 2017 | Radiation (03CH06-HY) |
| Preamplifier | SONOMA | 310N | 186713 | 9kHz~1GHz | Apr. 25, 2017 | May 30, 2017~ Jun. 02, 2017 | Apr. 25, 2018 | Radiation (03CH06-HY) |
| Preamplifier | MITEQ | AMF-7D-0010 1800-30-10P | 1850117 | 1GHz ~ 18GHz | Apr. 25, 2017 | May 30, 2017~ Jun. 02, 2017 | Apr. 24, 2018 | Radiation (03CH06-HY) |
| Preamplifier | MITEQ | TTA 1840-35-HG | 1887435 | 18GHz~40GHz | Oct. 13, 2016 | May 30, 2017~ Jul. 19, 2017 | Oct. 12, 2017 | Radiation (03CH06-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 104 | MY249564 MY249524 MY283184 | 30MHz~1GHz | Sep. 30, 2016 | May 30, 2017~ Jun. 02, 2017 | Sep. 29, 2017 | Radiation (03CH06-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 104 | MY9837/4 MY28419/4M Y28654/4 | 9KHz~40GHz | Sep. 12, 2016 | May 30, 2017~ Jul. 19, 2017 | Sep. 11, 2017 | Radiation (03CH06-HY) |
| Controller | INN-CO | EM1000 | 060782 | Control Turn table & Ant Mast | N/A | May 30, 2017~ Jul. 19, 2017 | N/A | Radiation (03CH06-HY) |
| Antenna Mast | MF | MF-7802 | MF78020821 2 | 1m~4m | N/A | May 30, 2017~ Jul. 19, 2017 | N/A | Radiation (03CH06-HY) |
| Turn Table | INN-CO | DS2000 | 420/650/00 | 0-360 degree | N/A | May 30, 2017~ Jul. 19, 2017 | N/A | Radiation (03CH06-HY) |
| Hygrometer | WISEWIND | 410 | BU5004 | N/A | Mar. 20, 2017 | May 30, 2017~ Jul. 19, 2017 | Mar. 19, 2018 | Radiation (03CH06-HY) |
| Test Software | Audix | E3 | 6.2009-8-24 | N/A | N/A | May 30, 2017~ Jul. 19, 2017 | N/A | Radiation (03CH06-HY) |



5. Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

| Measuring Uncertainty for a Level of | 2.70 |
|--------------------------------------|------|
| Confidence of 95% (U = 2Uc(y)) | 2.70 |

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

| Magguring Uncertainty for a Loval of | |
|--------------------------------------|------|
| Measuring Uncertainty for a Level of | 3.90 |
| Confidence of 95% (U = 2Uc(y)) | 0.00 |

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 30000 MHz)

| Measuring Uncertainty for a Level of | 4.70 |
|--------------------------------------|------|
| Confidence of 95% (U = 2Uc(y)) | 4.70 |