

FCC Test Report

APPLICANT : CT Asia (HK) Ltd.
EQUIPMENT : Smartphone
BRAND NAME : BLU
MODEL NAME : DASH X LTE
FCC ID : YHLBLUDASHXLTE
STANDARD : FCC 47 CFR FCC Part 15 Subpart B
CLASSIFICATION : Certification

The product was received on Sep. 11, 2015 and testing was completed on Oct. 23, 2015. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2009 and has been in compliance with the applicable technical standards.

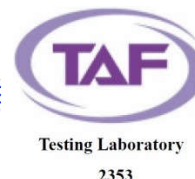
The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (SHENZHEN) INC., the test report shall not be reproduced except in full.



Prepared by: Andy Yeh / Manager



Approved by: Jones Tsai / Manager



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REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|------------|---------|-------------------------|---------------|
| FC591106 | Rev. 01 | Initial issue of report | Nov. 16, 2015 |
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SUMMARY OF TEST RESULT

| Report Section | FCC Rule | IC Rule | Description | Limit | Result | Remark |
|----------------|----------|------------------------|-----------------------|---|--------|--|
| 3.1 | 15.107 | ICES003 Section 6.1 | AC Conducted Emission | < 15.107 limits < ICES003 6.1 limits | PASS | Under limit 10.58 dB at 0.510 MHz |
| 3.2 | 15.109 | ICES003 Section 6.2 | Radiated Emission | < 15.109 limits < ICES003 6.2 limits | PASS | Under limit 2.81 dB at 240.060 MHz for Quasi-Peak |

1. General Description

1.1. Applicant

CT Asia (HK) Ltd.

Unit1309-11, 13th Floor 9 Wing Hong Street Cheung Sha Wan Kowloon, Hong Kong

1.2. Manufacturer

CT Asia (HK) Ltd.

Unit1309-11, 13th Floor 9 Wing Hong Street Cheung Sha Wan Kowloon, Hong Kong

1.3. Product Feature of Equipment Under Test

| Product Feature | |
|--|---|
| Equipment | Smartphone |
| Brand Name | BLU |
| Model Name | DASH X LTE |
| FCC ID | YHLBLUDASHXLTE |
| EUT supports Radios application | GSM/GPRS/EGPRS/WCDMA/HSPA/ HSPA+(16QAM uplink is not supported)/LTE/ WLAN2.4GHz 802.11b/g/n HT20/HT40/ Bluetooth v3.0+EDR/ Bluetooth v4.0 LE |
| IMEI Code | Conduction: 353919027655079/353919027656028 Radiation: 353919027655160/353919027656119 |
| HW Version | V1.0 |
| SW Version | BLU_D0010UU_V02_GENERIC |
| EUT Stage | Pre-Production |

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4. Product Specification subjective to this standard

| Product Specification subjective to this standard | |
|---|--|
| Tx Frequency | GSM850 : 824.2 MHz ~ 848.8 MHz GSM1900 : 1850.2 MHz ~ 1909.8MHz WCDMA Band V : 826.4 MHz ~ 846.6 MHz WCDMA Band IV : 1712.4 MHz ~ 1752.6 MHz WCDMA Band II : 1852.4 MHz ~ 1907.6 MHz LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 4: 1710.7 MHz~1754.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 17: 706.5 MHz~713.5 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz |
| Rx Frequency | GSM850 : 869.2 MHz ~ 893.8 MHz GSM1900 : 1930.2 MHz ~ 1989.8 MHz WCDMA Band V : 871.4 MHz ~ 891.6 MHz WCDMA Band IV : 2112.4 MHz ~ 2152.6 MHz WCDMA Band II : 1932.4 MHz ~ 1987.6 MHz LTE Band 2: 1930.7 MHz ~ 1989.3 MHz LTE Band 4: 2110.7 MHz~2154.3 MHz LTE Band 7: 2622.5 MHz~ 2687.5 MHz LTE Band 12: 729.7 MHz ~ 745.3 MHz LTE Band 17: 736.5 MHz~743.5 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS : 1.57542 GHz |
| Antenna Type | WWAN : PIFA Antenna WLAN : PIFA Antenna Bluetooth : PIFA Antenna GPS: PIFA Antenna |
| Type of Modulation | GSM: GMSK GPRS: GMSK EDGE(MCS 0-4): GMSK/(MCS 5-9): 8PSK WCDMA: QPSK (Uplink) WCDMA : QPSK (Uplink) HSDPA : QPSK (Uplink) HSUPA : QPSK (Uplink) HSPA+ : 16QAM (16QAM uplink is not supported) LTE: QPSK / 16QAM 802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth v4.0 LE: GFSK Bluetooth (1Mbps) : GFSK Bluetooth (2Mbps) : π /4-DQPSK Bluetooth (3Mbps) : 8-DPSK GPS : BPSK |

1.5. Modification of EUT

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

1.6. Test Location

| | | |
|---------------------------|---|--|
| Test Site | SPORTON INTERNATIONAL (SHENZHEN) INC. | |
| Test Site Location | 1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town, Nanshan District, Shenzhen, Guangdong, P. R. China TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 | |
| Test Site No. | Sporton Site No. | |
| | CO01-SZ | |

| | | |
|---------------------------|---|--------------------------------|
| Test Site | SPORTON INTERNATIONAL (SHENZHEN) INC. | |
| Test Site Location | No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China TEL: +86-755- 3320-2398 | |
| Test Site No. | Sporton Site No. | FCC/IC Registration No. |
| | 03CH01-SZ | 831040/4086F |

1.7. 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 C63.4-2009

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

2. Test Configuration of Equipment Under Test

2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2009 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).

The following tables are showing the test modes as the worst cases and recorded in this report.

| Item | EUT Configuration | Test Condition | | |
|------|--|----------------|-----------|-----------|
| | | EMI AC | EMI RE<1G | EMI RE≥1G |
| 1. | Charging Mode (EUT with adapter) | ☒ | ☒ | Note 1 |
| 2. | Data application transferred mode (EUT connected with notebook) | ☒ | ☒ | ☒ |

Abbreviations:

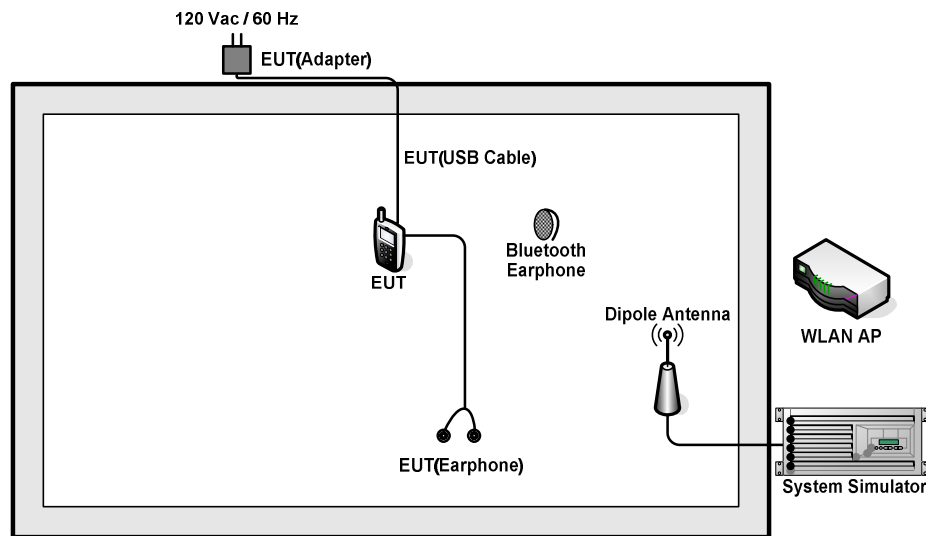
- EMI AC: AC conducted emissions
- EMI RE ≥ 1G: EUT radiated emissions ≥ 1GHz
- EMI RE < 1G: EUT radiated emissions < 1GHz

Note 1: Testing for this mode is not required or not the worst case.

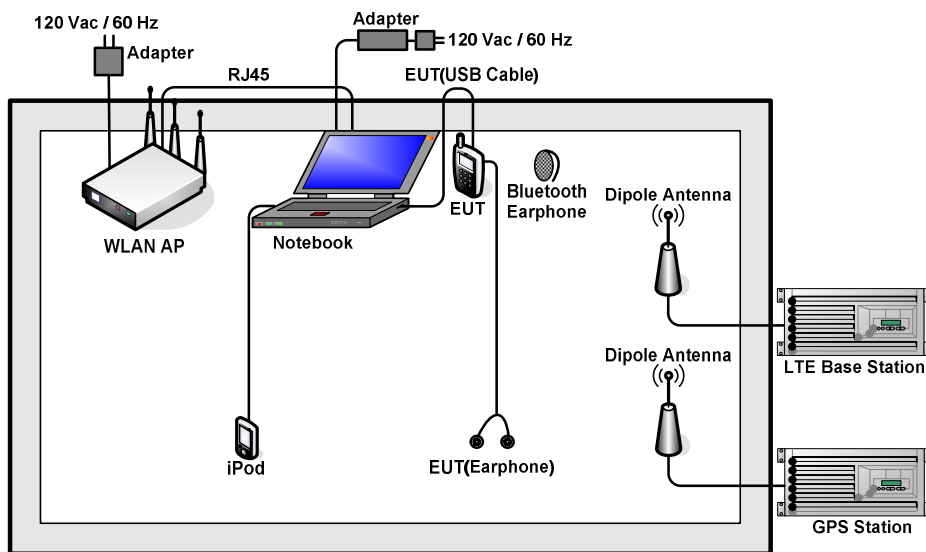
Remark: For signal above 1GHz, the worst case was test item 2.

| Test Items | EUT Configure Mode | Function Type |
|---|--------------------|--|
| AC Conducted Emission | 1/2 | <p>Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera(Back) + SIM1<Fig.1></p> <p>Mode 2: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 + SIM2<Fig.1></p> <p>Mode 3: LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM1<Fig.2></p> <p>Mode 4: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera(Front) + SIM1<Fig.1></p> |
| Radiated Emissions < 1GHz | 1/2 | <p>Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera(Back) + SIM1<Fig.1></p> <p>Mode 2: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 + SIM2<Fig.1></p> <p>Mode 3: LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM1<Fig.2></p> <p>Mode 4: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera(Front) + SIM1<Fig.1></p> |
| Radiated Emissions ≥ 1GHz | 2 | <p>Mode 1: LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM1<Fig.2></p> |
| Remark: <ol style="list-style-type: none"> The worst case of AC is mode 1, and the USB Link mode of AC is mode 3, the test data of these modes were reported. The worst case of RE < 1G is mode 3, the test data of this mode was reported. Link with Notebook means data application transferred mode between EUT and Notebook. | | |

2.2. Connection Diagram of Test System



<Fig.1>



<Fig.2>

2.3. Support Unit used in test configuration and system

| Item | Equipment | Trade Name | Model Name | FCC ID | Data Cable | Power Cord |
|------|--------------------|------------|------------|-------------|-------------------|--|
| 1. | System Simulator | R&S | CMU200 | N/A | N/A | Unshielded, 1.8 m |
| 2. | LTE Base Station | Anritsu | MT8820C | N/A | N/A | Unshielded, 1.8 m |
| 3. | GPS Station | ADIVIC | MP9000 | N/A | N/A | Unshielded, 1.8 m |
| 4. | Notebook | Lenovo | E540 | FCC DoC | N/A | AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m |
| 5. | Bluetooth Earphone | Samsung | HS3000 | A3LHS3000 | N/A | N/A |
| 6. | Bluetooth Earphone | Nokia | BH-108 | PYAHS-107W | N/A | N/A |
| 7. | WLAN AP | D-Link | DIR-628 | KA2DIR628A2 | N/A | Unshielded, 1.8 m |
| 8. | WLAN AP | ASUSTek | RT-AC66U | MSQ-RTAC66U | N/A | Unshielded, 2.7 m with Core |
| 9. | iPod | Apple | A1199 | FCC DoC | Unshielded, 1.2 m | N/A |
| 10. | SD Card | SanDisk | 4G class 4 | FCC DoC | N/A | N/A |
| 11. | iPod nano 8GB | Apple | MC690ZP/A | FCC DoC | Unshielded, 1.2 m | N/A |



2.4. EUT Operation Test Setup

The EUT was in GSM or WCDMA or LTE idle mode during the testing. The EUT was synchronized to the BCCH, and was in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, the EUT was attached to the Bluetooth earphone or WLAN AP, and the following programs installed in the EUT were programmed during the test.

1. Data application is transferred between Notebook and EUT via USB cable.
2. Execute "Video Player" to play MPEG4 files.
3. Turn on camera to capture images.
4. Turn on GPS function to make the EUT receive continuous signals from GPS station.

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 (MHz) | Conducted limit (dBuV) | |
|--------------------------------|------------------------|-----------|
| | 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.
8. 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.

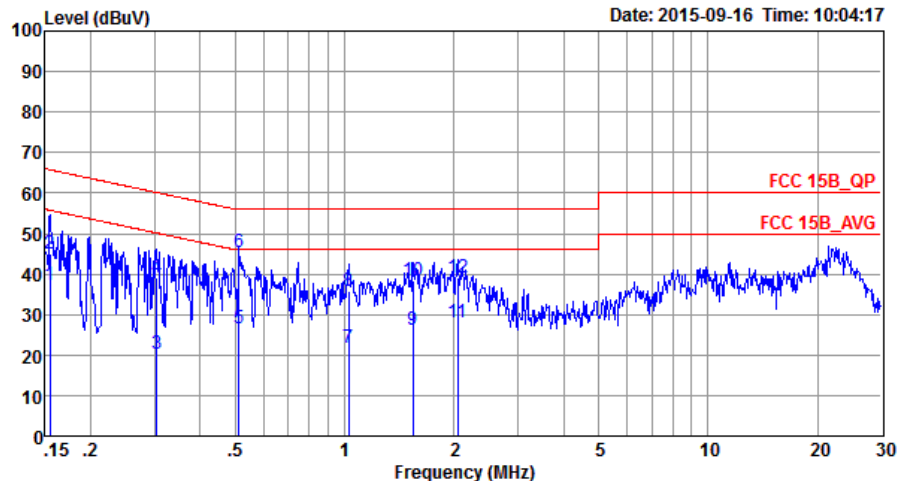
3.1.4 Test Setup





3.1.5 Test Result of AC Conducted Emission

| | | | |
|-----------------|--|---------------------|--------|
| Test Mode : | Mode 1 | Temperature : | 21~23℃ |
| Test Engineer : | Jacky Yang | Relative Humidity : | 41~43% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Line |
| Function Type : | GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera(Back) + SIM1 | | |

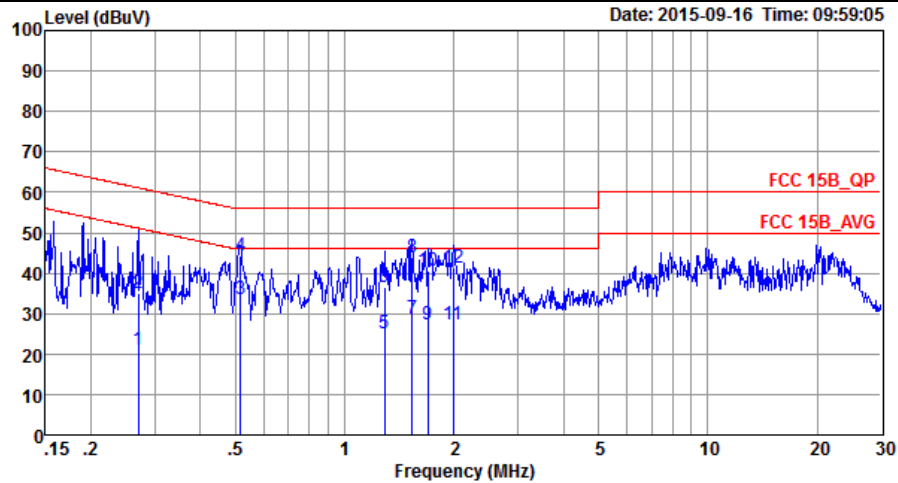


Site : CO01-SZ
Condition: FCC 15B_QP LISN_L_20150304 LINE
Project : (FC)591106
Mode : Mode 1
IMEI : 353919027655079/353919027656028

| | Freq | Level | Over Limit | Limit Line | Read Level | LISN Factor | Cable Loss | Remark |
|-----|------|-------|------------|------------|------------|-------------|------------|---------|
| | MHz | dBuV | dB | dBuV | dBuV | dB | dB | |
| 1 | 0.15 | 37.39 | -18.35 | 55.74 | 26.60 | 0.44 | 10.35 | Average |
| 2 | 0.15 | 44.99 | -20.75 | 65.74 | 34.20 | 0.44 | 10.35 | QP |
| 3 | 0.30 | 20.27 | -29.88 | 50.15 | 9.50 | 0.57 | 10.20 | Average |
| 4 | 0.30 | 38.97 | -21.18 | 60.15 | 28.20 | 0.57 | 10.20 | QP |
| 5 | 0.51 | 26.42 | -19.58 | 46.00 | 15.60 | 0.66 | 10.16 | Average |
| 6 * | 0.51 | 45.42 | -10.58 | 56.00 | 34.60 | 0.66 | 10.16 | QP |
| 7 | 1.03 | 21.86 | -24.14 | 46.00 | 11.20 | 0.51 | 10.15 | Average |
| 8 | 1.03 | 35.76 | -20.24 | 56.00 | 25.10 | 0.51 | 10.15 | QP |
| 9 | 1.54 | 26.15 | -19.85 | 46.00 | 15.50 | 0.48 | 10.17 | Average |
| 10 | 1.54 | 38.35 | -17.65 | 56.00 | 27.70 | 0.48 | 10.17 | QP |
| 11 | 2.04 | 27.96 | -18.04 | 46.00 | 17.30 | 0.47 | 10.19 | Average |
| 12 | 2.04 | 39.06 | -16.94 | 56.00 | 28.40 | 0.47 | 10.19 | QP |



| | | | |
|------------------------|--|----------------------------|---------|
| Test Mode : | Mode 1 | Temperature : | 21~23℃ |
| Test Engineer : | Jacky Yang | Relative Humidity : | 41~43% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Neutral |
| Function Type : | GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera(Back) + SIM1 | | |

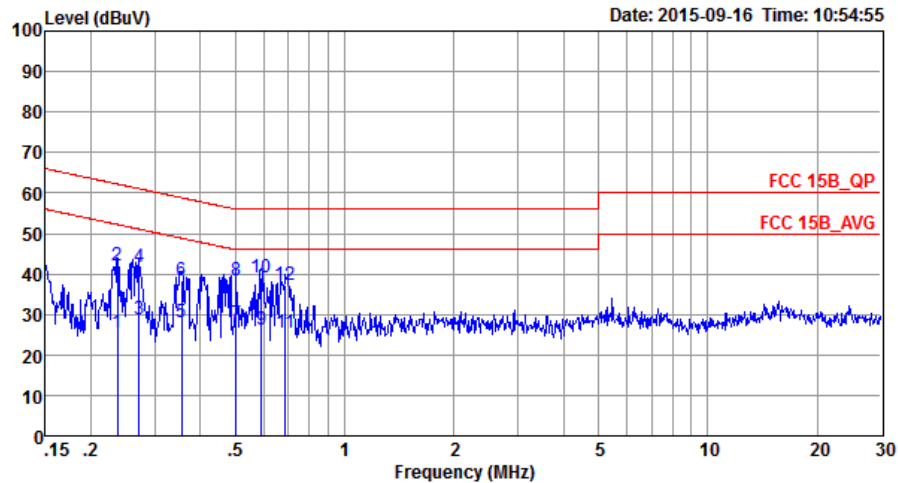


Site : C001-SZ
 Condition: FCC 15B_QP LISN_N_20150304 NEUTRAL
 Project : (FC)591106
 Mode : Mode 1
 IMEI : 353919027655079/353919027656028

| | Freq | Level | Over Limit | Limit Line | Read Level | LISN Factor | Cable Loss | Remark |
|-----|------|-------|------------|------------|------------|-------------|------------|---------|
| | MHz | dBuV | dB | dBuV | dBuV | dB | dB | |
| 1 | 0.27 | 20.89 | -30.23 | 51.12 | 10.10 | 0.57 | 10.22 | Average |
| 2 | 0.27 | 34.89 | -26.23 | 61.12 | 24.10 | 0.57 | 10.22 | QP |
| 3 | 0.52 | 33.46 | -12.54 | 46.00 | 22.70 | 0.60 | 10.16 | Average |
| 4 * | 0.52 | 44.36 | -11.64 | 56.00 | 33.60 | 0.60 | 10.16 | QP |
| 5 | 1.29 | 25.13 | -20.87 | 46.00 | 14.41 | 0.56 | 10.16 | Average |
| 6 | 1.29 | 36.63 | -19.37 | 56.00 | 25.91 | 0.56 | 10.16 | QP |
| 7 | 1.54 | 28.94 | -17.06 | 46.00 | 18.20 | 0.57 | 10.17 | Average |
| 8 | 1.54 | 43.74 | -12.26 | 56.00 | 33.00 | 0.57 | 10.17 | QP |
| 9 | 1.70 | 27.25 | -18.75 | 46.00 | 16.50 | 0.57 | 10.18 | Average |
| 10 | 1.70 | 40.55 | -15.45 | 56.00 | 29.80 | 0.57 | 10.18 | QP |
| 11 | 1.99 | 27.46 | -18.54 | 46.00 | 16.70 | 0.57 | 10.19 | Average |
| 12 | 1.99 | 41.46 | -14.54 | 56.00 | 30.70 | 0.57 | 10.19 | QP |



| | | | |
|------------------------|---|----------------------------|--------|
| Test Mode : | Mode 3 | Temperature : | 21~23℃ |
| Test Engineer : | Jacky Yang | Relative Humidity : | 41~43% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Line |
| Function Type : | LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM1 | | |

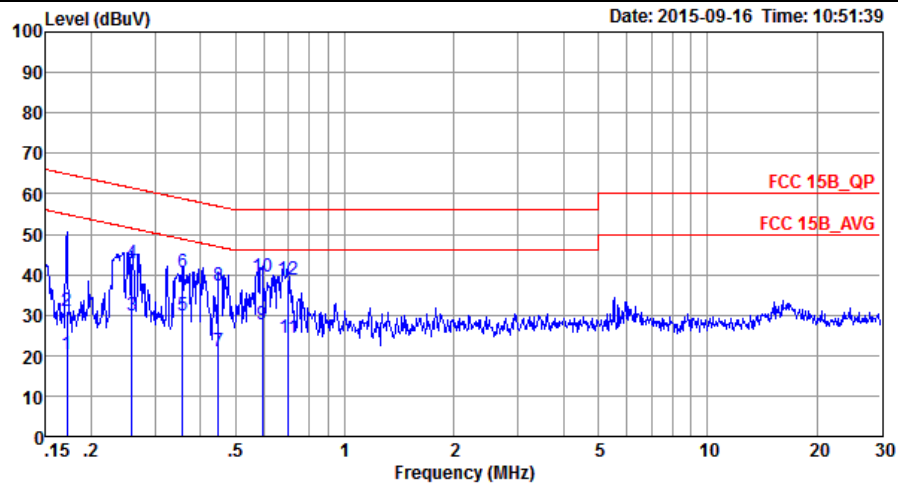


Site : CO01-SZ
Condition: FCC 15B_QP LISN_L_20150304 LINE
Project : (FC)591106
Mode : Mode 3
IMEI : 353919027655079/353919027656028

| | Freq | Level | Over Limit | Limit Line | Read Level | LISN Factor | Cable Loss | Remark |
|------|------|-------|------------|------------|------------|-------------|------------|---------|
| | MHz | dBuV | dB | dBuV | dBuV | dB | dB | |
| 1 | 0.24 | 25.30 | -26.92 | 52.22 | 14.51 | 0.54 | 10.25 | Average |
| 2 | 0.24 | 42.00 | -20.22 | 62.22 | 31.21 | 0.54 | 10.25 | QP |
| 3 | 0.27 | 28.88 | -22.19 | 51.07 | 18.10 | 0.56 | 10.22 | Average |
| 4 | 0.27 | 41.58 | -19.49 | 61.07 | 30.80 | 0.56 | 10.22 | QP |
| 5 | 0.36 | 28.14 | -20.69 | 48.83 | 17.41 | 0.55 | 10.18 | Average |
| 6 | 0.36 | 38.54 | -20.29 | 58.83 | 27.81 | 0.55 | 10.18 | QP |
| 7 | 0.50 | 27.72 | -18.28 | 46.00 | 16.89 | 0.67 | 10.16 | Average |
| 8 | 0.50 | 38.42 | -17.58 | 56.00 | 27.59 | 0.67 | 10.16 | QP |
| 9 | 0.59 | 26.36 | -19.64 | 46.00 | 15.60 | 0.61 | 10.15 | Average |
| 10 * | 0.59 | 39.26 | -16.74 | 56.00 | 28.50 | 0.61 | 10.15 | QP |
| 11 | 0.69 | 25.40 | -20.60 | 46.00 | 14.70 | 0.55 | 10.15 | Average |
| 12 | 0.69 | 37.30 | -18.70 | 56.00 | 26.60 | 0.55 | 10.15 | QP |



| | | | |
|-----------------|---|---------------------|---------|
| Test Mode : | Mode 3 | Temperature : | 21~23℃ |
| Test Engineer : | Jacky Yang | Relative Humidity : | 41~43% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Neutral |
| Function Type : | LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM1 | | |



Site : C001-SZ
Condition: FCC 15B_QP LISN_N_20150304 NEUTRAL
Project : (FC)591106
Mode : Mode 3
IMEI : 353919027655079/353919027656028

| | Freq | Level | Over Limit | Limit Line | Read Level | LISN Factor | Cable Loss | Remark |
|------|------|-------|------------|------------|------------|-------------|------------|---------|
| | MHz | dBuV | dB | dBuV | dBuV | dB | dB | |
| 1 | 0.17 | 20.21 | -34.69 | 54.90 | 9.40 | 0.48 | 10.33 | Average |
| 2 | 0.17 | 31.11 | -33.79 | 64.90 | 20.30 | 0.48 | 10.33 | QP |
| 3 | 0.26 | 29.90 | -21.57 | 51.47 | 19.11 | 0.56 | 10.23 | Average |
| 4 | 0.26 | 42.90 | -18.57 | 61.47 | 32.11 | 0.56 | 10.23 | QP |
| 5 | 0.36 | 29.95 | -18.83 | 48.78 | 19.20 | 0.57 | 10.18 | Average |
| 6 | 0.36 | 40.45 | -18.33 | 58.78 | 29.70 | 0.57 | 10.18 | QP |
| 7 | 0.45 | 21.14 | -25.75 | 46.89 | 10.40 | 0.58 | 10.16 | Average |
| 8 | 0.45 | 37.24 | -19.65 | 56.89 | 26.50 | 0.58 | 10.16 | QP |
| 9 | 0.59 | 27.53 | -18.47 | 46.00 | 16.80 | 0.58 | 10.15 | Average |
| 10 * | 0.59 | 39.63 | -16.37 | 56.00 | 28.90 | 0.58 | 10.15 | QP |
| 11 | 0.70 | 24.40 | -21.60 | 46.00 | 13.70 | 0.55 | 10.15 | Average |
| 12 | 0.70 | 38.80 | -17.20 | 56.00 | 28.10 | 0.55 | 10.15 | QP |

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

3.2.2. Measuring Instruments

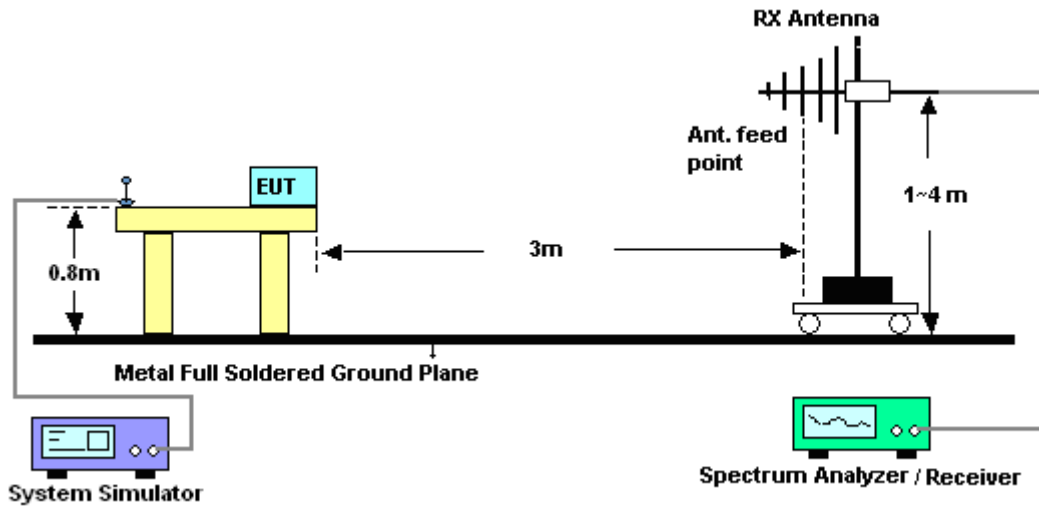
The measuring equipment is listed in the section 4 of this test report.

3.2.3. Test Procedures

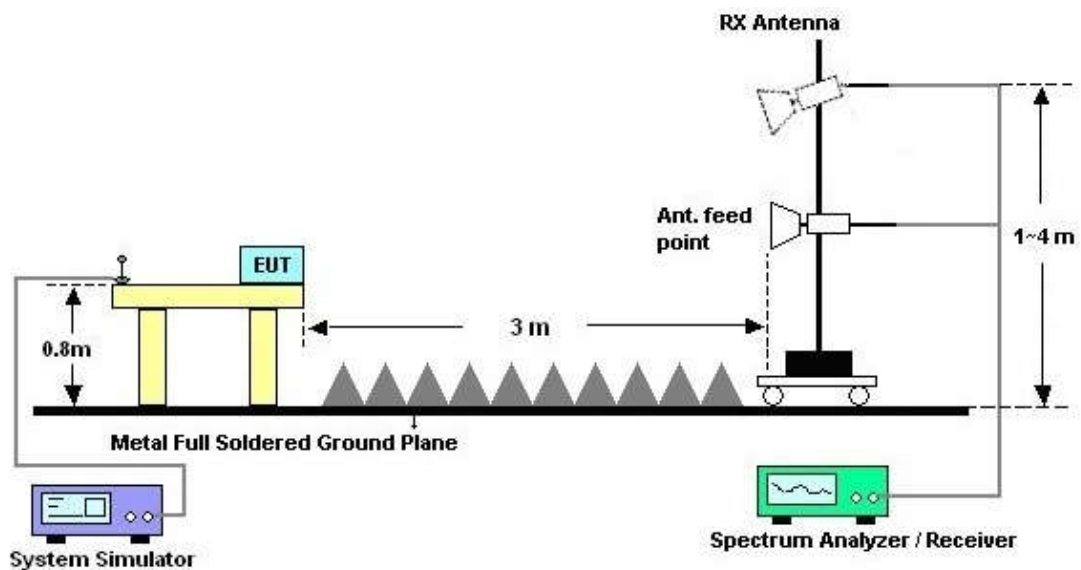
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna 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.
6. 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 (dBμV/m) = 20 log Emission level (μV/m)
9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamplifier Factor = Level

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz

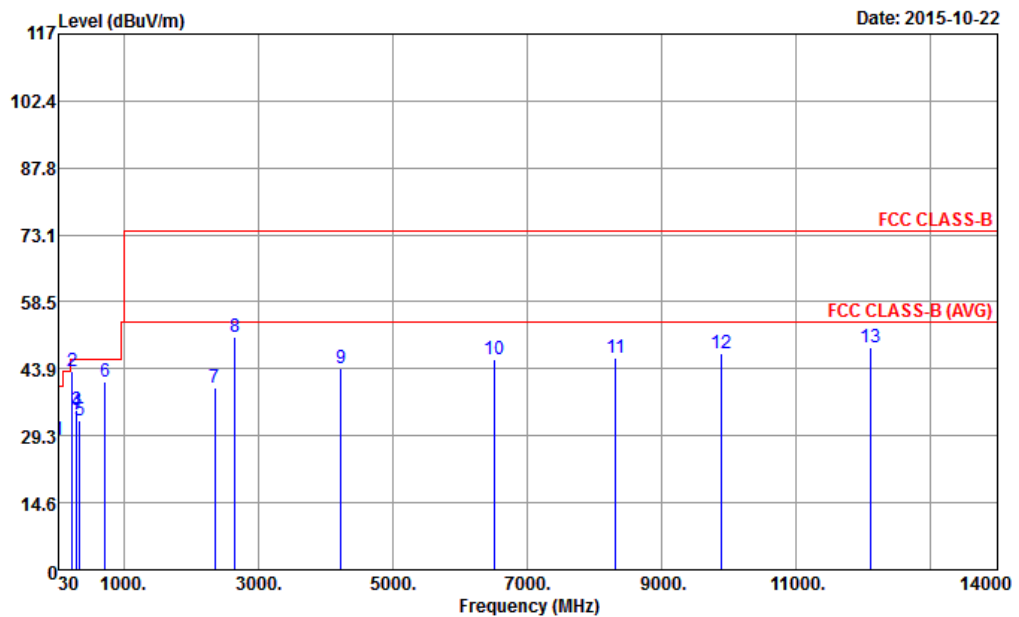


For radiated emissions above 1GHz



3.2.5. Test Result of Radiated Emission

| | | | |
|-----------------|---|---------------------|------------|
| Test Mode : | Mode 3 | Temperature : | 23~25°C |
| Test Engineer : | Leo Liao | Relative Humidity : | 48~52% |
| Test Distance : | 3m | Polarization : | Horizontal |
| Function Type : | LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM1 | | |
| Remark : | #8 is system simulator signal which can be ignored. | | |

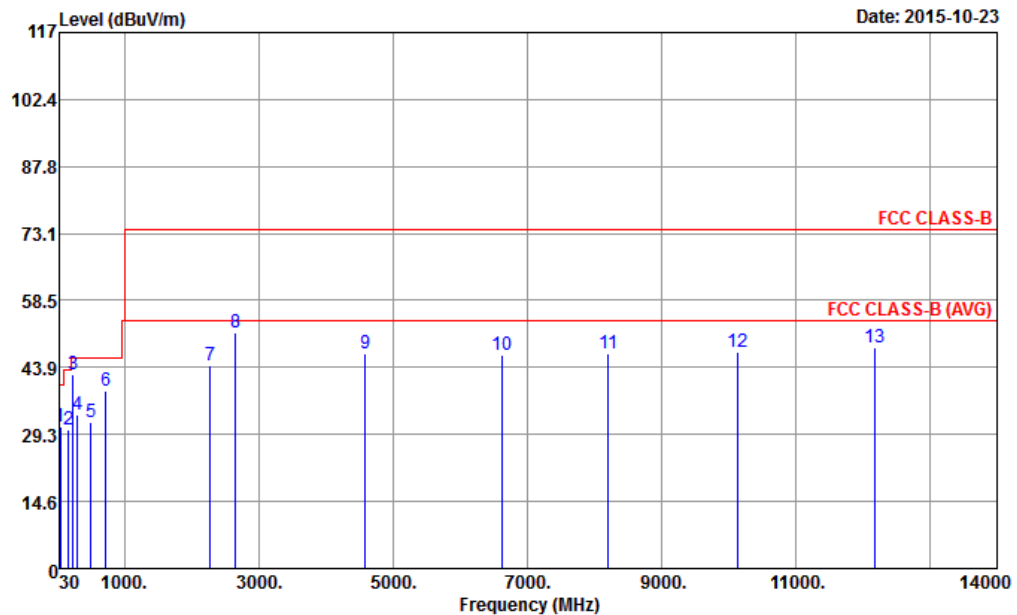


Site : 03CH01-SZ
 Condition : FCC CLASS-B 3m LF_ANT_141107 HORIZONTAL
 Project : (FC) 591106
 Mode : Mode 3
 IMEI : 35919027655160/353919027656119

| | Freq | Level | Over Limit | Limit Line | ReadAntenna Level | Cable Factor | Preamp Loss | A/Pos | T/Pos | Remark |
|----|----------|--------|------------|------------|-------------------|--------------|-------------|-------|---------|--------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg |
| 1 | 30.00 | 28.35 | -11.65 | 40.00 | 28.12 | 25.60 | 0.70 | 26.07 | --- | Peak |
| 2 | 240.06 | 43.19 | -2.81 | 46.00 | 54.53 | 12.25 | 1.57 | 25.16 | 125 | 80 QP |
| 3 | 298.65 | 34.95 | -11.05 | 46.00 | 44.21 | 14.07 | 1.71 | 25.04 | --- | Peak |
| 4 | 300.00 | 34.56 | -11.44 | 46.00 | 43.79 | 14.10 | 1.71 | 25.04 | --- | Peak |
| 5 | 344.80 | 32.53 | -13.47 | 46.00 | 41.28 | 14.69 | 1.95 | 25.39 | --- | Peak |
| 6 | 720.00 | 41.23 | -4.77 | 46.00 | 44.12 | 20.73 | 2.71 | 26.33 | --- | Peak |
| 7 | 2358.00 | 39.91 | -34.09 | 74.00 | 46.98 | 32.56 | 10.95 | 50.58 | --- | Peak |
| 8 | 2654.00 | 50.85 | | | 56.79 | 32.82 | 11.81 | 50.57 | --- | Peak |
| 9 | 4232.00 | 44.05 | -29.95 | 74.00 | 47.13 | 34.04 | 14.67 | 51.79 | --- | Peak |
| 10 | 6508.00 | 46.03 | -27.97 | 74.00 | 43.43 | 36.30 | 16.62 | 50.32 | --- | Peak |
| 11 | 8318.00 | 46.30 | -27.70 | 74.00 | 41.85 | 36.31 | 17.88 | 49.74 | --- | Peak |
| 12 | 9900.00 | 47.33 | -26.67 | 74.00 | 40.33 | 38.00 | 18.92 | 49.92 | --- | Peak |
| 13 | 12116.00 | 48.57 | -25.43 | 74.00 | 40.28 | 39.45 | 18.74 | 49.90 | 125 200 | Peak |



| | | | |
|-----------------|---|---------------------|----------|
| Test Mode : | Mode 3 | Temperature : | 23~25°C |
| Test Engineer : | Leo Liao | Relative Humidity : | 48~52% |
| Test Distance : | 3m | Polarization : | Vertical |
| Function Type : | LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM1 | | |
| Remark : | #8 is system simulator signal which can be ignored. | | |



Site : 03CH01-SZ
Condition : FCC CLASS-B 3m LF_ANT_141107 VERTICAL
Project : (FC) 591106
Mode : Mode 3
IMEI : 35919027655160/353919027656119

| | Freq | Level | Over Limit | Limit Line | ReadAntenna Level Factor | Cable Loss | Preamp Factor | A/Pos | T/Pos | Remark | |
|----|----------|--------|---------------|---------------|-----------------------------|---------------|------------------|-------|-------|--------|------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 42.69 | 31.07 | -8.93 | 40.00 | 42.12 | 14.25 | 0.70 | 26.00 | --- | --- | Peak |
| 2 | 166.62 | 30.24 | -13.26 | 43.50 | 42.31 | 11.97 | 1.38 | 25.42 | --- | --- | Peak |
| 3 | 240.06 | 42.45 | -3.55 | 46.00 | 53.79 | 12.25 | 1.57 | 25.16 | 125 | 80 | Peak |
| 4 | 300.00 | 33.71 | -12.29 | 46.00 | 42.94 | 14.10 | 1.71 | 25.04 | --- | --- | Peak |
| 5 | 499.50 | 31.96 | -14.04 | 46.00 | 36.76 | 19.36 | 2.17 | 26.33 | --- | --- | Peak |
| 6 | 720.00 | 38.90 | -7.10 | 46.00 | 41.79 | 20.73 | 2.71 | 26.33 | --- | --- | Peak |
| 7 | 2280.00 | 44.27 | -29.73 | 74.00 | 51.79 | 32.48 | 10.69 | 50.69 | --- | --- | Peak |
| 8 | 2654.00 | 51.58 | --- | --- | 57.52 | 32.82 | 11.81 | 50.57 | --- | --- | Peak |
| 9 | 4586.00 | 46.86 | -27.14 | 74.00 | 48.89 | 34.25 | 15.23 | 51.51 | --- | --- | Peak |
| 10 | 6630.00 | 46.68 | -27.32 | 74.00 | 44.24 | 36.25 | 16.65 | 50.46 | --- | --- | Peak |
| 11 | 8214.00 | 46.97 | -27.03 | 74.00 | 42.83 | 36.38 | 17.71 | 49.95 | --- | --- | Peak |
| 12 | 10146.00 | 47.34 | -26.66 | 74.00 | 40.33 | 38.22 | 18.87 | 50.08 | --- | --- | Peak |
| 13 | 12170.00 | 48.15 | -25.85 | 74.00 | 40.16 | 39.43 | 18.44 | 49.88 | 200 | 300 | Peak |



4. List of Measuring Equipment

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|--------------------------------------|----------------------|------------------------------|--------------|--------------------------|------------------|---------------------------------|---------------|--------------------------|
| EMI Test Receiver&SA | Agilent Technologies | N9038A | MY52260185 | 20Hz~26.5GHz | May 26, 2015 | Oct. 22, 2015~ Oct. 23, 2015 | May 25, 2016 | Radiation (03CH01-SZ) |
| Spectrum Analyzer | KEYSIGHT | N9010A | MY55150213 | 10Hz~44GHz;Max 30dBm | Jun. 07, 2015 | Oct. 22, 2015~ Oct. 23, 2015 | Jun. 06, 2016 | Radiation (03CH01-SZ) |
| Bilog Antenna | TeseQ | CBL6112D | 23188 | 30MHz~2GHz | Oct. 17, 2015 | Oct. 22, 2015~ Oct. 23, 2015 | Oct. 16, 2016 | Radiation (03CH01-SZ) |
| Double Ridge Horn Antenna | ETS Lindgren | 3117 | 00119436 | 1GHz~18GHz | Oct. 17, 2015 | Oct. 22, 2015~ Oct. 23, 2015 | Oct. 16, 2016 | Radiation (03CH01-SZ) |
| Amplifier | ADVANTEST | BB525C | E9007003 | 9kHz ~3000MHz / 30 dB | Jan. 28, 2015 | Oct. 22, 2015~ Oct. 23, 2015 | Jan. 27, 2016 | Radiation (03CH01-SZ) |
| Amplifier | Agilent Technologies | 83017A | MY39501302 | 500MHz~26.5GHz | Jan. 28, 2015 | Oct. 22, 2015~ Oct. 23, 2015 | Jan. 27, 2016 | Radiation (03CH01-SZ) |
| AC Power Source | Chroma | 61601 | 616010001985 | N/A | NCR | Oct. 22, 2015~ Oct. 23, 2015 | NCR | Radiation (03CH01-SZ) |
| Turn Table | EM | EM1000 | N/A | 0~360 degree | NCR | Oct. 22, 2015~ Oct. 23, 2015 | NCR | Radiation (03CH01-SZ) |
| Antenna Mast | EM | EM1000 | N/A | 1 m~4 m | NCR | Oct. 22, 2015~ Oct. 23, 2015 | NCR | Radiation (03CH01-SZ) |
| EMI Receiver | R&S | ESC17 | 100724 | 9kHz~3GHz; | Jan. 28, 2015 | Sep. 16, 2015 | Jan. 27, 2016 | Conduction (CO01-SZ) |
| AC LISN | EMCO | 3816/2SH | 103892 | 9kHz~30MHz | Feb.02, 2015 | Sep. 16, 2015 | Feb. 01, 2016 | Conduction (CO01-SZ) |
| AC LISN (for auxiliary equipment) | MessTec | AN3016 | 16850 | 9kHz~30MHz | Feb. 02, 2015 | Sep. 16, 2015 | Feb. 01, 2016 | Conduction (CO01-SZ) |
| AC Power Source | Chroma | 61602 | 616020000891 | 100Vac~250Vac | Aug. 07, 2015 | Sep. 16, 2015 | Aug. 06, 2016 | Conduction (CO01-SZ) |
| Pulse Limiter | COM-POWER | LIT-153 Transient Limiter | 53139 | 150kHz~30MHz | Oct. 24, 2014 | Sep. 16, 2015 | Oct. 23, 2015 | Conduction (CO01-SZ) |



5. Uncertainty of Evaluation

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

| | |
|--|-------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$) | 2.3dB |
|--|-------|

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

| | |
|--|-------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$) | 4.8dB |
|--|-------|