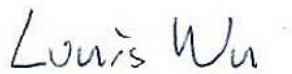


FCC Test Report

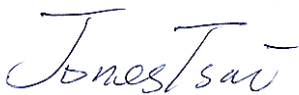
APPLICANT : i.am.plus electronics inc
EQUIPMENT : SmartWatch
BRAND NAME : iamplus
MODEL NAME : IAM1110
MARKETING NAME : dial
FCC ID : 2AB2S-IAM1110
STANDARD : FCC 47 CFR FCC Part 15 Subpart B
CLASSIFICATION : Certification

The product was received on Jul. 17, 2015 and testing was completed on Feb. 05, 2016. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2009 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 INC., the test report shall not be reproduced except in full.



Reviewed by: Louis Wu / Manager



Approved by: Jones Tsai / Manager



SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.

SPORTON INTERNATIONAL INC.

TEL : 886-3-327-3456

FAX : 886-3-328-4978

FCC ID : 2AB2S-IAM1110

Page Number : 1 of 27

Report Issued Date : Apr. 26, 2016

Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2



TABLE OF CONTENTS

REVISION HISTORY	3
SUMMARY OF TEST RESULT	4
1. GENERAL DESCRIPTION	5
1.1. Applicant.....	5
1.2. Manufacturer	5
1.3. Product Feature of Equipment Under Test	5
1.4. Product Specification subjective to this standard.....	6
1.5. Modification of EUT	6
1.6. Test Location.....	7
1.7. Applicable Standards	7
2. TEST CONFIGURATION OF EQUIPMENT UNDER TEST	8
2.1. Test Mode	8
2.2. Connection Diagram of Test System	10
2.3. Support Unit used in test configuration and system	11
2.4. EUT Operation Test Setup	11
3. TEST RESULT	12
3.1. Test of AC Conducted Emission Measurement	12
3.2. Test of Radiated Emission Measurement	22
4. LIST OF MEASURING EQUIPMENT	26
5. UNCERTAINTY OF EVALUATION	27
APPENDIX A. SETUP PHOTOGRAPHS	



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC571759	Rev. 01	Initial issue of report.	Apr. 26, 2016



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.107	AC Conducted Emission	< 15.107 limits < ICES003 6.1 limits	PASS	Under limit 5.00 dB at 0.566 MHz
3.2	15.109	Radiated Emission	< 15.109 limits < ICES003 6.2 limits	PASS	Under limit 9.64 dB at 272.730 MHz for Quasi-Peak

1. General Description

1.1. Applicant

i.am.plus electronics inc

10960 Wilshire Blvd., 5th Floor Los Angeles, CA 90024

1.2. Manufacturer

FIH Mobile Limited

No. 4, Mingsheng St., Tu-Cheng Dist., New Taipei City 23679, Taiwan

1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	SmartWatch
Brand Name	iamplus
Model Name	IAM1110
Marketing Name	dial
FCC ID	2AB2S-IAM1110
EUT supports Radios application	GSM/EGPRS/WCDMA/HSPA WLAN 11b/g/n HT20 Bluetooth v4.0 EDR/LE
HW Version	PR4
SW Version	IP2_1C0C_1_240
EUT Stage	Production Unit

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 II: 1852.4 MHz ~ 1907.6 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 II: 1932.4 MHz ~ 1987.6 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS : 1.57542 GHz
Antenna Type	WWAN : Dipole 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) HSDPA: 64QAM (Downlink) HSUPA: QPSK (Uplink) 802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth LE : GFSK Bluetooth (1Mbps) : GFSK Bluetooth (2Mbps) : $\pi/4$ -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

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

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

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)	☒	☒	☒
2.	Data application transferred mode (EUT with notebook)	Note 1	☒	Note 1

Abbreviations:

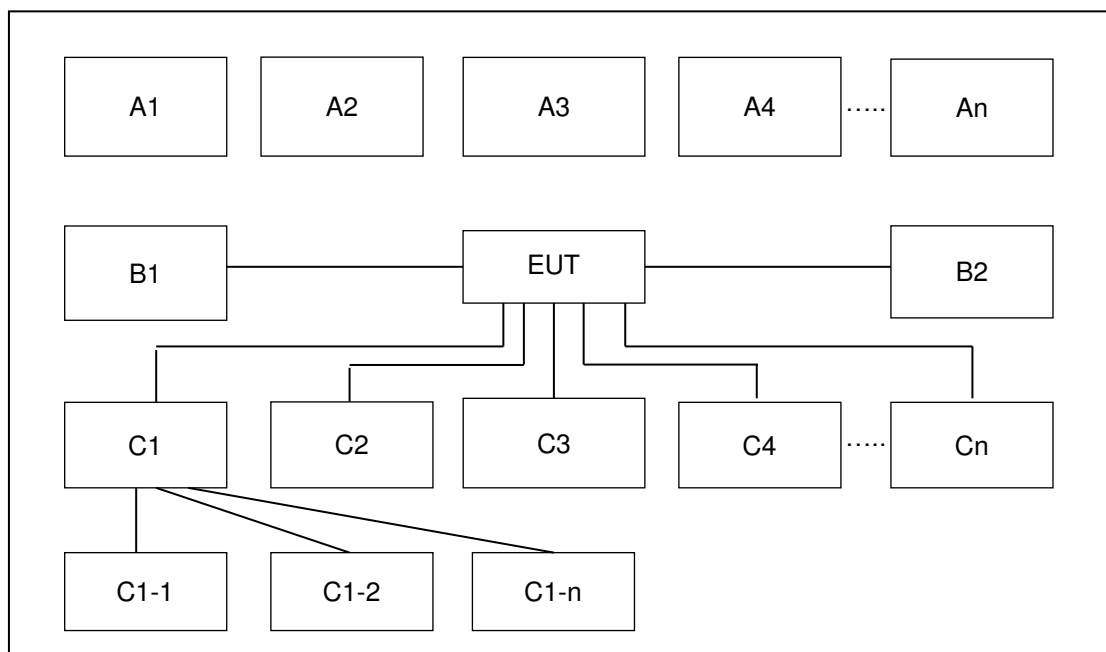
- EMI AC: AC conducted emissions
- EMI RE ≥ 1G: EUT radiated emissions ≥ 1GHz
- EMI RE < 1G: EUT radiated emissions < 1GHz

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 1.

Test Items	EUT Configure Mode	Function Type
AC Conducted Emission	1/2	Mode 1 : GSM850 Idle + Bluetooth Idle + WLAN Idle + MPEG4 + USB Cable 1 (Charging from Adapter) Mode 2 : WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + GPS Rx + USB Cable 1 (Data Link with Notebook) Mode 3 : GSM850 Idle + Bluetooth Idle + WLAN Idle + MPEG4 + USB Cable 2 (Charging from Adapter)
Radiated Emissions < 1GHz	1/2	Mode 1 : GSM850 Idle + Bluetooth Idle + WLAN Idle + MPEG4 + USB Cable 1 (Charging from Adapter) Mode 2 : WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + GPS Rx + USB Cable 1 (Data Link with Notebook) Mode 3 : GSM850 Idle + Bluetooth Idle + WLAN Idle + MPEG4 + USB Cable 2 (Charging from Adapter)
Radiated Emissions ≥ 1GHz	2	Mode 1 : WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + GPS Rx + USB Cable 1 (Data Link with Notebook)
Remark: - The worst case of AC is mode 1; only the test data of this mode was reported. - The worst case of RE < 1G is mode 2; only the test data of this mode was reported. - Data Link with Notebook means data application transferred mode between EUT and Notebook.		

2.2. Connection Diagram of Test System



Conduction and Radiation Test Setup									
No.	Wireless Station	Connection Type	Test Mode						
			1	2	3		-	-	-
A1	BT Earphone	Bluetooth	X	X	X				
A2	System Simulator	GSM/WCDMA	X	X	X				
A3	GPS Station	GPS		X					
A4	AP router	WiFi	X	X	X				
No.	Power Source	Connection Type	1	2	3		-	-	-
B1	AC : 120V/60Hz	AC Power Cable	X		X				
No.	Setup Peripherals	Connection Type	1	2	3		-	-	-
C1	Notebook	USB cable		X					
C1-1	iPod	USB Cable to C1		X					
C1-2	AP router	RJ-45 Cable to C1		X					

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	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	GPS Station	Pendulum	GSG-54	N/A	N/A	Unshielded, 1.8 m
4.	WLAN AP	D-Link	DIR-865L	KA2IR865LA1	N/A	Unshielded, 1.8 m
5.	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
6.	iPod	Apple	A1199	FCC DoC	Unshielded, 1.2 m	N/A
7.	iPod	Apple	A1285	FCC DoC	Unshielded, 1.2 m	N/A

2.4. EUT Operation Test Setup

The EUT was in GSM or WCDMA idle mode during the testing. The EUT was synchronized to the BCCH, and is 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 Laptop and EUT via USB cable.
2. Execute "GPS Test" to make the EUT receive continuous signals from GPS station.
3. Execute "Video Player" to play MPEG4 files.

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.

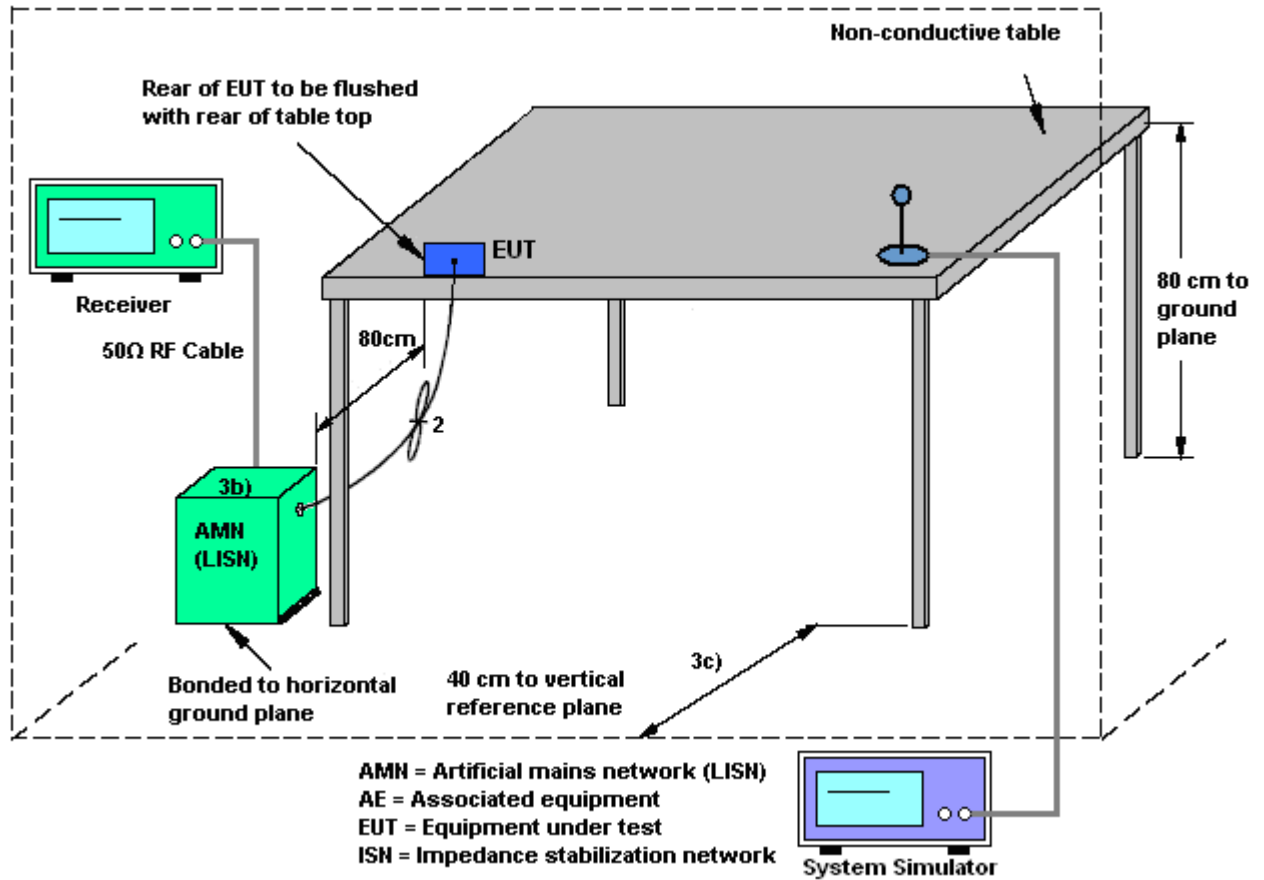
3.1.2 Measuring Instruments

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

3.1.3 Test Procedure

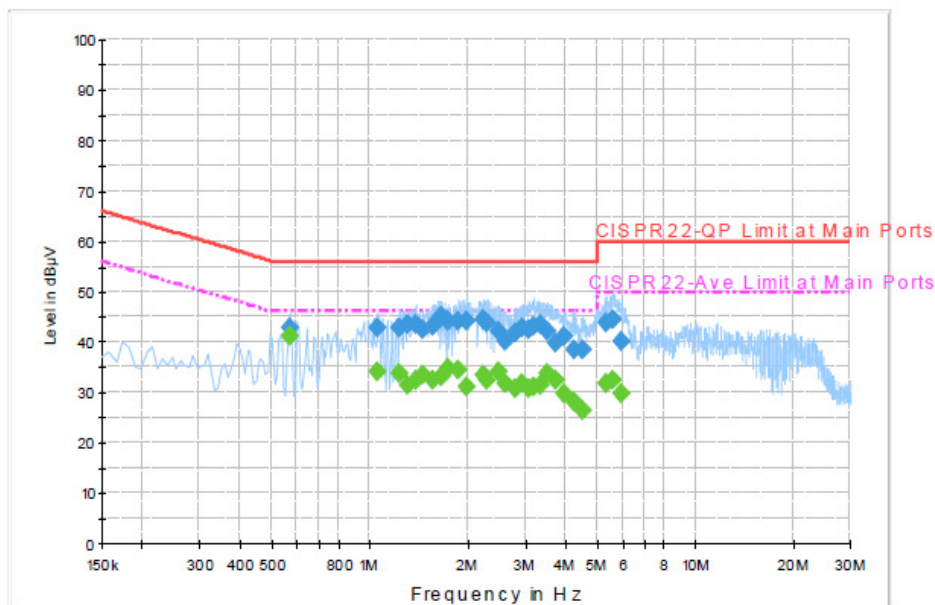
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
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

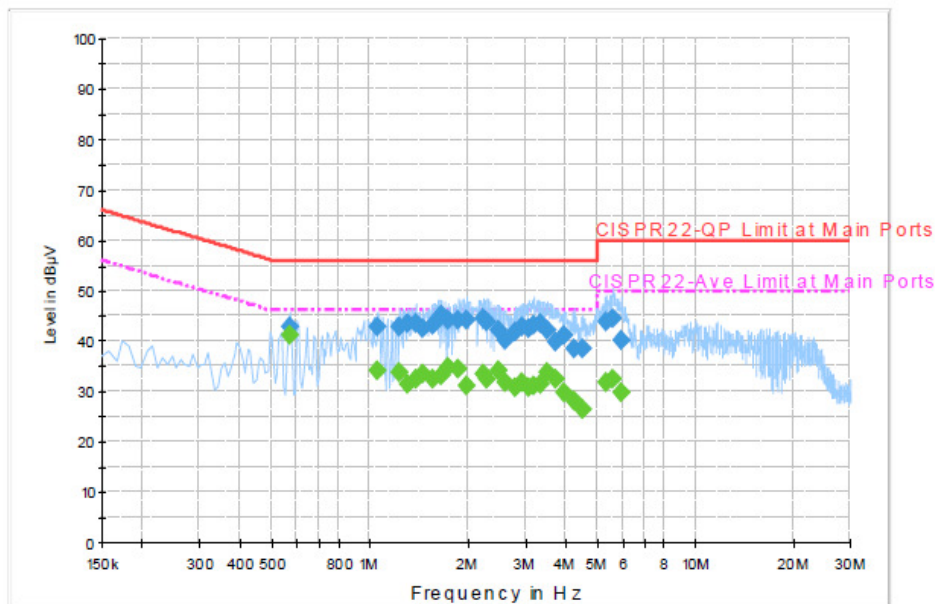
Test Mode :	Mode 1	Temperature :	26~27°C
Test Engineer :	Kai-Chun Chu	Relative Humidity :	63~64%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + GPS Rx + USB Cable 1 (Data Link with Notebook)		



Final Result : Quasi-Peak

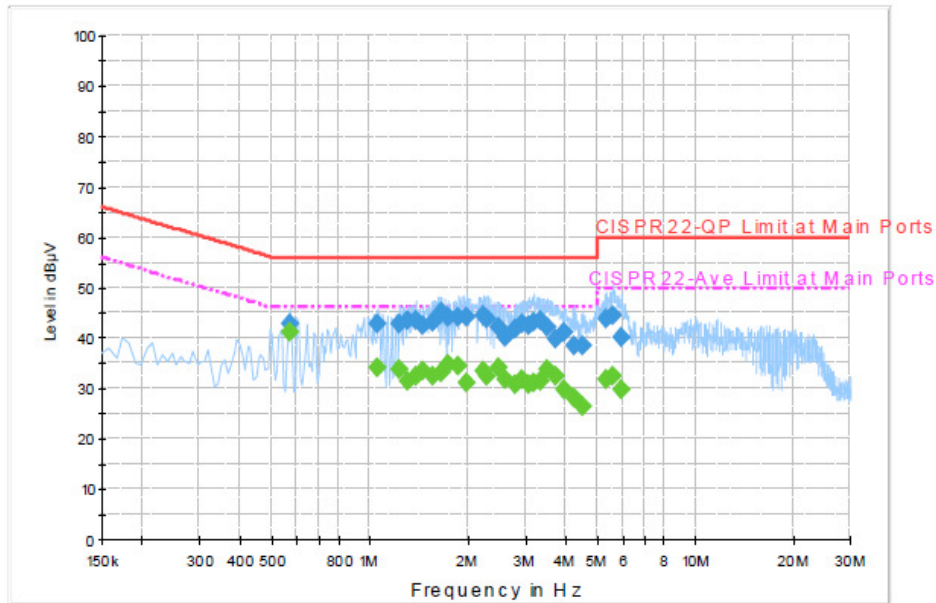
Frequency (MHz)	Quasi-Peak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.566000	42.8	Off	L1	19.4	13.2	56.0
1.062000	42.7	Off	L1	19.5	13.3	56.0
1.238000	42.9	Off	L1	19.6	13.1	56.0
1.310000	43.6	Off	L1	19.6	12.4	56.0
1.382000	43.5	Off	L1	19.6	12.5	56.0
1.454000	42.5	Off	L1	19.6	13.5	56.0
1.558000	43.3	Off	L1	19.5	12.7	56.0
1.670000	45.2	Off	L1	19.6	10.8	56.0
1.734000	44.0	Off	L1	19.6	12.0	56.0
1.878000	44.3	Off	L1	19.5	11.7	56.0
1.990000	44.0	Off	L1	19.7	12.0	56.0
2.230000	44.4	Off	L1	19.7	11.6	56.0
2.302000	43.7	Off	L1	19.7	12.3	56.0
2.478000	42.1	Off	L1	19.7	13.9	56.0

Test Mode :	Mode 1	Temperature :	26~27°C
Test Engineer :	Kai-Chun Chu	Relative Humidity :	63~64%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + GPS Rx + USB Cable 1 (Data Link with Notebook)		


Final Result : Quasi-Peak

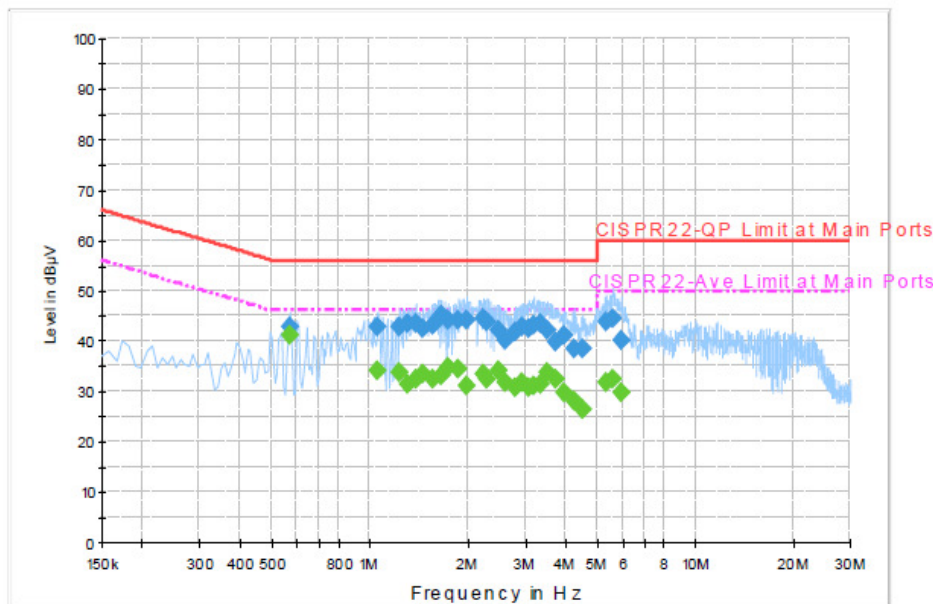
Frequency (MHz)	Quasi-Peak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
2.598000	40.0	Off	L1	19.7	16.0	56.0
2.822000	41.7	Off	L1	19.7	14.3	56.0
2.950000	42.9	Off	L1	19.7	13.1	56.0
3.078000	42.5	Off	L1	19.7	13.5	56.0
3.190000	43.2	Off	L1	19.7	12.8	56.0
3.358000	43.5	Off	L1	19.7	12.5	56.0
3.510000	42.3	Off	L1	19.7	13.7	56.0
3.750000	39.8	Off	L1	19.7	16.2	56.0
3.958000	41.0	Off	L1	19.7	15.0	56.0
4.262000	38.3	Off	L1	19.7	17.7	56.0
4.518000	38.5	Off	L1	19.8	17.5	56.0
5.318000	43.9	Off	L1	19.7	16.1	60.0
5.614000	44.5	Off	L1	19.7	15.5	60.0
5.934000	40.0	Off	L1	19.8	20.0	60.0

Test Mode :	Mode 1	Temperature :	26~27°C
Test Engineer :	Kai-Chun Chu	Relative Humidity :	63~64%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + GPS Rx + USB Cable 1 (Data Link with Notebook)		


Final Result : Average

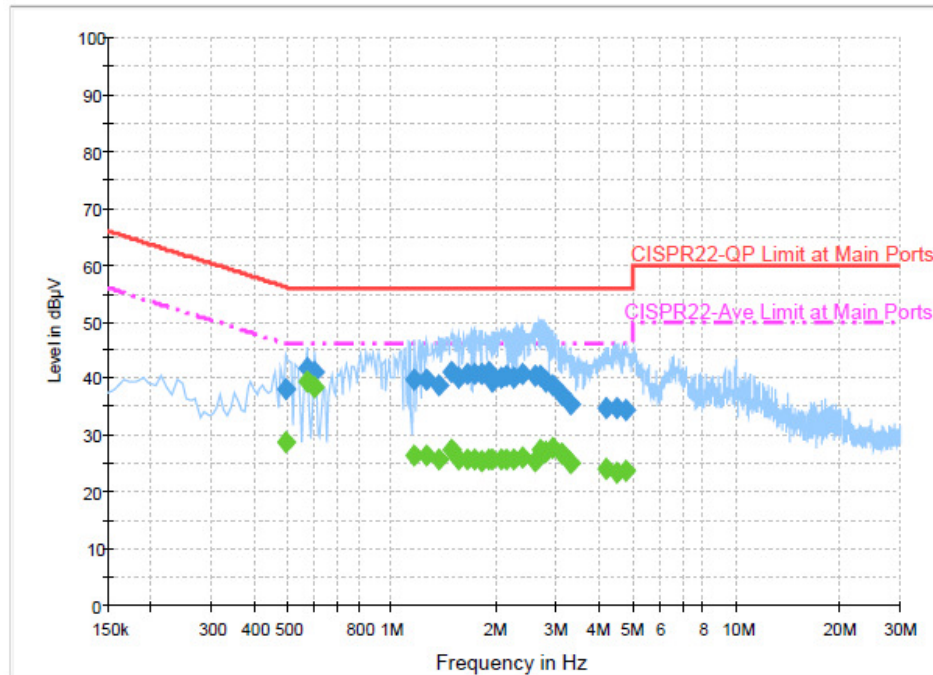
Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.566000	41.0	Off	L1	19.4	5.0	46.0
1.062000	34.1	Off	L1	19.5	11.9	46.0
1.238000	33.9	Off	L1	19.6	12.1	46.0
1.310000	31.3	Off	L1	19.6	14.7	46.0
1.382000	32.6	Off	L1	19.6	13.4	46.0
1.454000	33.4	Off	L1	19.6	12.6	46.0
1.558000	32.5	Off	L1	19.5	13.5	46.0
1.670000	33.0	Off	L1	19.6	13.0	46.0
1.734000	34.8	Off	L1	19.6	11.2	46.0
1.878000	34.5	Off	L1	19.5	11.5	46.0
1.990000	31.0	Off	L1	19.7	15.0	46.0
2.230000	33.6	Off	L1	19.7	12.4	46.0
2.302000	32.5	Off	L1	19.7	13.5	46.0
2.478000	34.0	Off	L1	19.7	12.0	46.0

Test Mode :	Mode 1	Temperature :	26~27°C
Test Engineer :	Kai-Chun Chu	Relative Humidity :	63~64%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + GPS Rx + USB Cable 1 (Data Link with Notebook)		


Final Result : Average

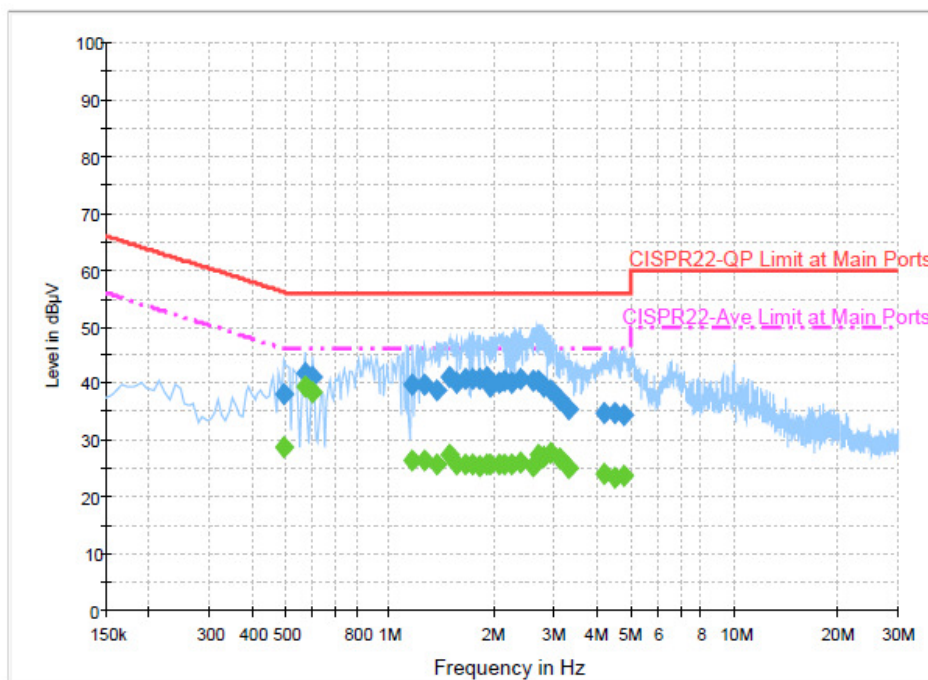
Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
2.598000	31.7	Off	L1	19.7	14.3	46.0
2.822000	30.8	Off	L1	19.7	15.2	46.0
2.950000	31.9	Off	L1	19.7	14.1	46.0
3.078000	30.7	Off	L1	19.7	15.3	46.0
3.190000	31.0	Off	L1	19.7	15.0	46.0
3.358000	31.6	Off	L1	19.7	14.4	46.0
3.510000	33.7	Off	L1	19.7	12.3	46.0
3.750000	32.3	Off	L1	19.7	13.7	46.0
3.958000	29.6	Off	L1	19.7	16.4	46.0
4.262000	28.2	Off	L1	19.7	17.8	46.0
4.518000	26.4	Off	L1	19.8	19.6	46.0
5.318000	31.8	Off	L1	19.7	18.2	50.0
5.614000	32.4	Off	L1	19.7	17.6	50.0
5.934000	29.9	Off	L1	19.8	20.1	50.0

Test Mode :	Mode 1	Temperature :	26~27°C
Test Engineer :	Kai-Chun Chu	Relative Humidity :	63~64%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + GPS Rx + USB Cable 1 (Data Link with Notebook)		


Final Result : Quasi-Peak

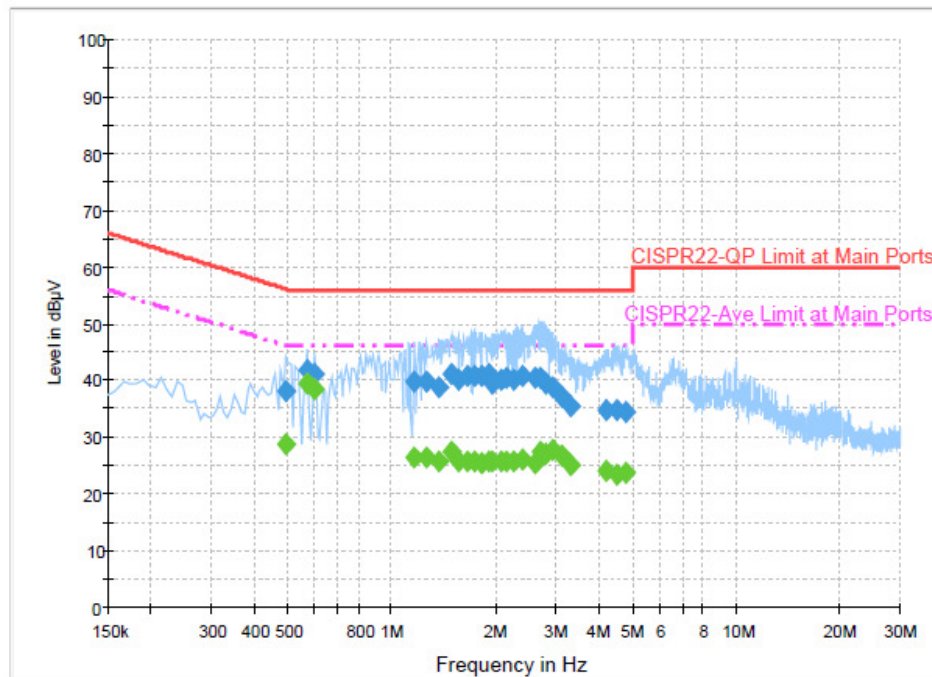
Frequency (MHz)	Quasi-Peak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.494000	38.1	Off	N	19.4	18.0	56.1
0.566000	41.8	Off	N	19.4	14.2	56.0
0.598000	41.1	Off	N	19.5	14.9	56.0
1.166000	39.9	Off	N	19.6	16.1	56.0
1.270000	39.6	Off	N	19.6	16.4	56.0
1.374000	38.8	Off	N	19.6	17.2	56.0
1.486000	41.1	Off	N	19.6	14.9	56.0
1.558000	40.0	Off	N	19.5	16.0	56.0
1.654000	40.9	Off	N	19.6	15.1	56.0
1.734000	41.0	Off	N	19.6	15.0	56.0
1.838000	40.9	Off	N	19.6	15.1	56.0
1.910000	41.2	Off	N	19.5	14.8	56.0
1.974000	39.6	Off	N	19.6	16.4	56.0

Test Mode :	Mode 1	Temperature :	26~27°C
Test Engineer :	Kai-Chun Chu	Relative Humidity :	63~64%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + GPS Rx + USB Cable 1 (Data Link with Notebook)		


Final Result : Quasi-Peak

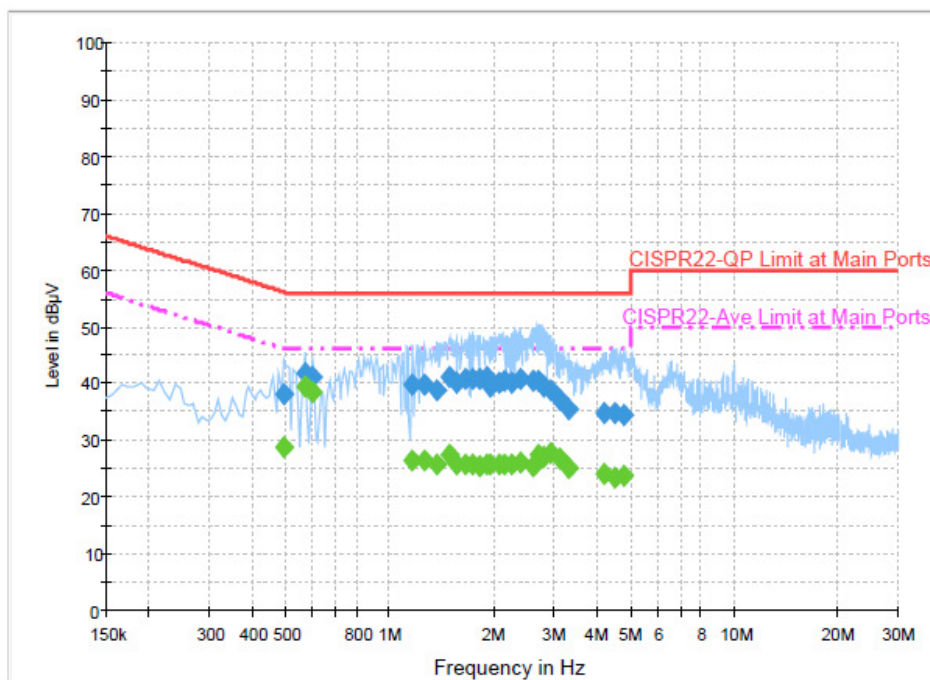
Frequency (MHz)	Quasi-Peak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
2.086000	40.0	Off	N	19.7	16.0	56.0
2.158000	40.6	Off	N	19.7	15.4	56.0
2.254000	40.3	Off	N	19.7	15.7	56.0
2.406000	40.9	Off	N	19.7	15.1	56.0
2.606000	40.4	Off	N	19.7	15.6	56.0
2.718000	40.5	Off	N	19.7	15.5	56.0
2.798000	39.4	Off	N	19.8	16.6	56.0
2.934000	38.8	Off	N	19.7	17.2	56.0
3.142000	37.2	Off	N	19.7	18.8	56.0
3.326000	35.3	Off	N	19.8	20.7	56.0
4.182000	34.9	Off	N	19.7	21.1	56.0
4.518000	34.8	Off	N	19.7	21.2	56.0
4.806000	34.4	Off	N	19.7	21.6	56.0

Test Mode :	Mode 1	Temperature :	26~27°C
Test Engineer :	Kai-Chun Chu	Relative Humidity :	63~64%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + GPS Rx + USB Cable 1 (Data Link with Notebook)		


Final Result : Average

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.494000	28.9	Off	N	19.4	17.2	46.1
0.566000	39.3	Off	N	19.4	6.7	46.0
0.598000	38.5	Off	N	19.5	7.5	46.0
1.166000	26.4	Off	N	19.6	19.6	46.0
1.270000	26.3	Off	N	19.6	19.7	46.0
1.374000	25.7	Off	N	19.6	20.3	46.0
1.486000	27.3	Off	N	19.6	18.7	46.0
1.558000	25.9	Off	N	19.5	20.1	46.0
1.654000	25.7	Off	N	19.6	20.3	46.0
1.734000	25.7	Off	N	19.6	20.3	46.0
1.838000	25.4	Off	N	19.6	20.6	46.0
1.910000	25.7	Off	N	19.5	20.3	46.0
1.974000	25.6	Off	N	19.6	20.4	46.0

Test Mode :	Mode 1	Temperature :	26~27°C
Test Engineer :	Kai-Chun Chu	Relative Humidity :	63~64%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + GPS Rx + USB Cable 1 (Data Link with Notebook)		


Final Result : Average

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
2.086000	25.7	Off	N	19.7	20.3	46.0
2.158000	25.8	Off	N	19.7	20.2	46.0
2.254000	25.6	Off	N	19.7	20.4	46.0
2.406000	26.0	Off	N	19.7	20.0	46.0
2.606000	25.5	Off	N	19.7	20.5	46.0
2.718000	27.3	Off	N	19.7	18.7	46.0
2.798000	27.2	Off	N	19.8	18.8	46.0
2.934000	27.9	Off	N	19.7	18.1	46.0
3.142000	26.7	Off	N	19.7	19.3	46.0
3.326000	25.0	Off	N	19.8	21.0	46.0
4.182000	24.1	Off	N	19.7	21.9	46.0
4.518000	23.3	Off	N	19.7	22.7	46.0
4.806000	23.8	Off	N	19.7	22.2	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 (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

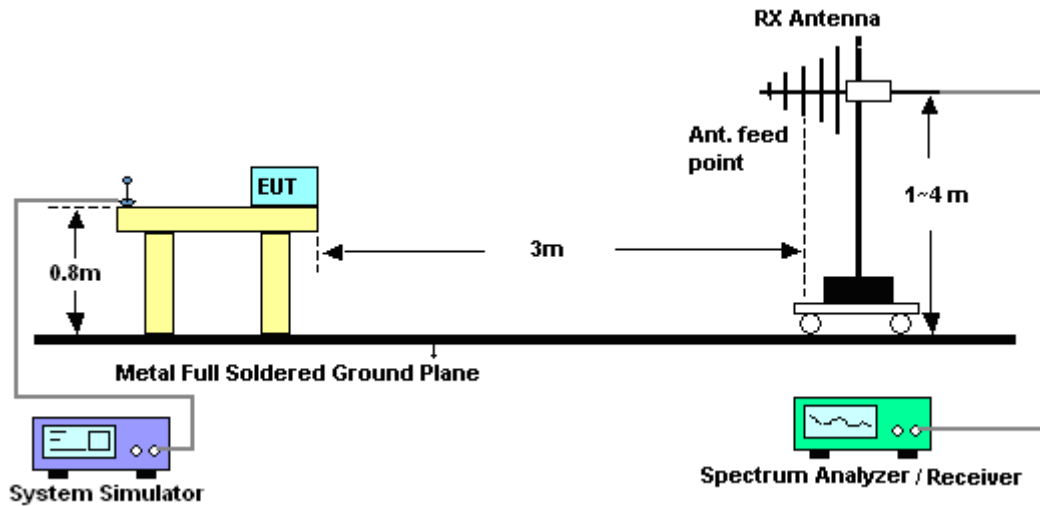
The measuring equipment is listed in the section 4 of this test report.

3.2.3. Test Procedures

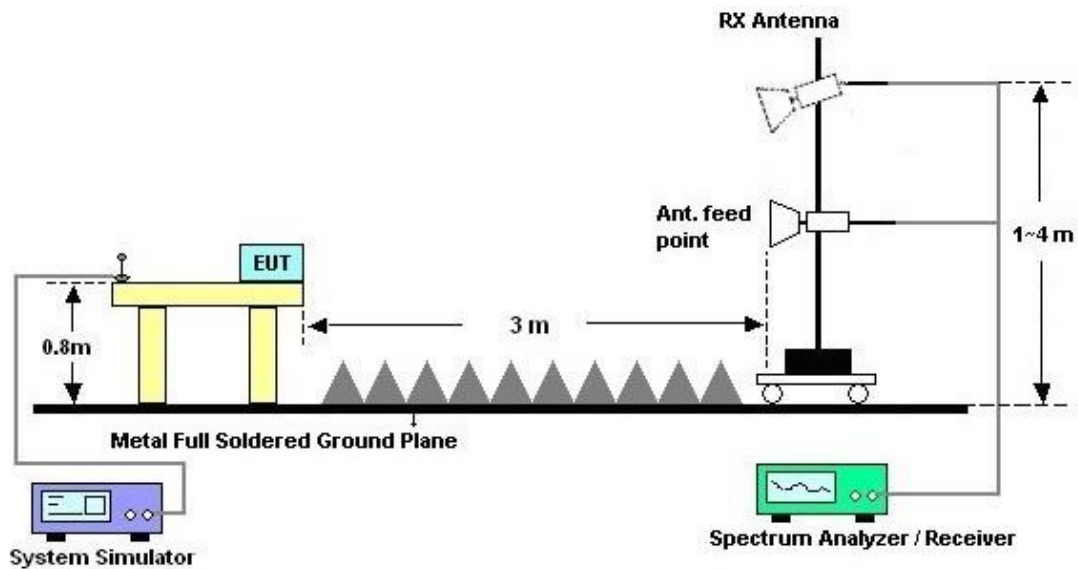
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna 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 - Preamp Factor = Level

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz

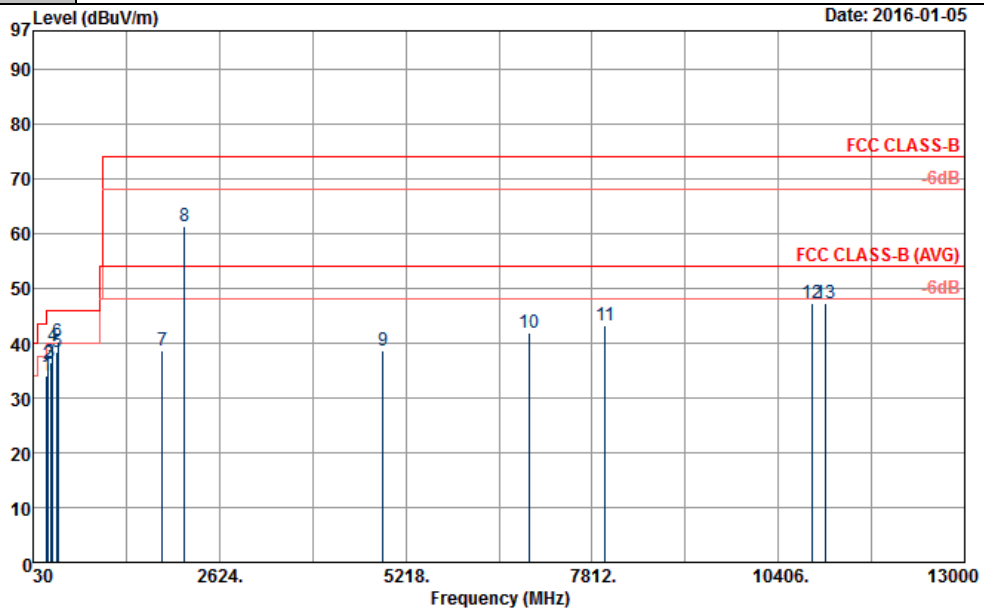


For radiated emissions above 1GHz



3.2.5. Test Result of Radiated Emission

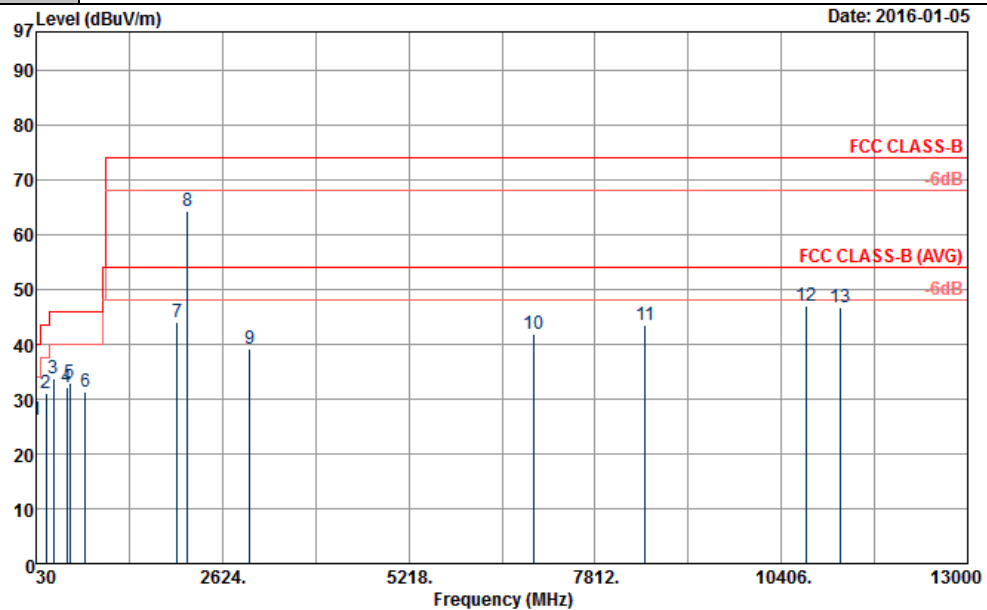
Test Mode :	Mode 2	Temperature :	20~23°C
Test Engineer :	Daniel Lee	Relative Humidity :	50~53%
Test Distance :	3m	Polarization :	Horizontal
Function Type :	WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + GPS Rx + USB Cable 1 (Data Link with Notebook)		
Remark :	#8 is system simulator signal which can be ignored.		



Site : 03CH06-HY
 Condition : FCC CLASS-B 3m 9120D_1156_150109 HORIZONTAL
 Project : 571759
 Power : FromSystem
 Mode : Mode 2



Test Mode :	Mode 2	Temperature :	20~23°C
Test Engineer :	Daniel Lee	Relative Humidity :	50~53%
Test Distance :	3m	Polarization :	Vertical
Function Type :	WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + GPS Rx + USB Cable 1 (Data Link with Notebook)		
Remark :	#8 is system simulator signal which can be ignored.		



Site : 03CH06-HY
Condition : FCC CLASS-B 3m 9120D_1156_150109 VERTICAL
Project : 571759
Power : FromSystem
Mode : Mode 2

	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	35.67	26.12	-13.88	40.00	40.36	16.84	0.70	31.78	---	---	Peak
2	171.48	31.13	-12.37	43.50	51.21	10.05	1.60	31.73	---	---	Peak
3	272.46	33.78	-12.22	46.00	50.22	13.45	1.82	31.71	100	220	Peak
4	461.00	32.16	-13.84	46.00	44.21	17.49	2.33	31.87	---	---	Peak
5	498.10	32.84	-13.16	46.00	44.11	18.17	2.47	31.91	---	---	Peak
6	720.70	31.39	-14.61	46.00	39.44	21.05	2.96	32.06	---	---	Peak
7	1996.00	44.07	-29.93	74.00	72.29	26.10	6.18	60.50	---	---	Peak
8	2140.00	64.37			92.12	26.43	6.32	60.50	---	---	Peak
9	3000.00	39.12	-34.88	74.00	63.94	28.40	7.68	60.90	---	---	Peak
10	6956.00	41.98	-32.02	74.00	54.99	35.07	12.23	60.31	---	---	Peak
11	8512.00	43.37	-30.63	74.00	52.43	36.92	13.45	59.43	---	---	Peak
12	10760.00	47.14	-26.86	74.00	51.13	40.41	15.42	59.82	100	36	Peak
13	11236.00	46.73	-27.27	74.00	49.28	40.37	15.85	58.77	---	---	Peak



4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Rohde & Schwarz	ESCS 30	100356	9kHz ~ 2.75GHz	Dec. 01, 2014	Jul. 28, 2015 ~ Feb. 05, 2015	Nov. 30, 2015	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 02, 2014	Jul. 28, 2015 ~ Feb. 05, 2015	Dec. 01, 2015	Conduction (CO05-HY)
LISN (for auxiliary equipment)	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Dec. 08, 2014	Jul. 28, 2015 ~ Jul. 29, 2015	Dec. 07, 2015	Conduction (CO05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jul. 28, 2015 ~ Feb. 05, 2015	N/A	Conduction (CO05-HY)
Bilog Antenna	Teseq GmbH	CBL6112D	35379	30MHz~2GHz	Sep. 27, 2014	Aug. 03, 2015	Sep. 26, 2015	Radiation (03CH06-HY)
Bilog Antenna	Teseq GmbH	CBL6112D	35379	30MHz~2GHz	Oct. 15, 2015	Jan. 05, 2016 ~ Feb. 04, 2016	Oct. 14, 2016	Radiation (03CH06-HY)
Horn Antenna	ESCO	3117	00066584	1GHz~18GHz	Aug. 30, 2014	Aug. 03, 2015	Aug. 29, 2015	Radiation (03CH06-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1156	1GHz~18GHz	Aug. 21, 2015	Jan. 05, 2016 ~ Feb. 04, 2016	Aug. 20, 2016	Radiation (03CH06-HY)
Preamplifier	SONOMA	310N	186713	9kHz~1GHz	Apr. 20, 2015	Aug. 03, 2015 ~ Feb. 04, 2016	Apr. 19, 2016	Radiation (03CH06-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1850117	1GHz ~ 18GHz	Jul. 01, 2015	Aug. 03, 2015 ~ Feb. 04, 2016	Jun. 30, 2016	Radiation (03CH06-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100472	20Hz~26.5GHz	Jan. 19, 2015	Aug. 03, 2015 ~ Jan. 05, 2016	Jan. 18, 2016	Radiation (03CH06-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100472	20Hz~26.5GHz	Jan. 07, 2016	Feb. 04, 2016	Jan. 06, 2017	Radiation (03CH06-HY)
Controller	INN-CO	EM1000	060782	Control Turn table & Ant Mast	N/A	Aug. 03, 2015 ~ Feb. 04, 2016	N/A	Radiation (03CH06-HY)
Antenna Mast	MF	MF-7802	MF78020821 2	1m~4m	N/A	Aug. 03, 2015 ~ Jan. 05, 2016	N/A	Radiation (03CH06-HY)
Turn Table	INN-CO	DS2000	420/650/00	0-360 degree	N/A	Aug. 03, 2015 ~ Feb. 04, 2016	N/A	Radiation (03CH06-HY)



5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.26
--	------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.50
--	------