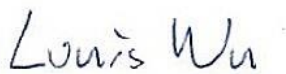


FCC/IC Test Report

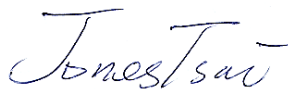
APPLICANT : Sony Mobile Communications Inc.
EQUIPMENT : Smart phone
BRAND NAME : SONY
TYPE NAME : PM-0864-BV
FCC ID : PY7-PM0864
STANDARD : FCC 47 CFR FCC Part 15 Subpart B
ICES-003 Issue 5
CLASSIFICATION : FCC CLASS B PERSONAL
COMPUTERS AND PERIPHERALS

The product was received on Dec. 31, 2014 and testing was completed on Feb. 03, 2015. 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 Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

SPORTON INTERNATIONAL INC.

TEL : 886-3-327-3456

FAX : 886-3-328-4978

FCC ID : PY7-PM0864

Page Number : 1 of 30

Report Issued Date : Mar. 24, 2015

Report Version : Rev. 01

Report Template No.: BU5-FC15B Version 1.1

Report Template No.: BU5-CI003 Version 1.1



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC4D3141	Rev. 01	Initial issue of report	Mar. 24, 2015



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 8.80 dB at 0.198 MHz
3.2	15.109	ICES003 Section 6.2	Radiated Emission	< 15.109 limits < ICES003 6.2 limits	PASS	Under limit 3.17 dB at 40.800 MHz



1. General Description

1.1. Applicant

Sony Mobile Communications Inc.
Nya Vattentorget, 22188 Lund, Sweden

1.2. Manufacturer

Arima Communications Corp.
6F, No. 866, Jhongjheng Rd., Jhonghe Dist., New Taipei City 23586, Taiwan

1.3. Feature of Equipment Under Test

The Equipment Under Test (hereafter called: EUT) is smart phone supporting, GSM / WCDMA / LTE, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n, Bluetooth with FM Receiver, and GPS features, and below is details of information.

Product Feature	
Equipment	Smart phone
Brand Name	SONY
Type Name	PM-0864-BV
FCC ID	PY7-PM0864
GSM Operating Band(s)	GSM 850/900/1800/1900MHz
GPRS / EGPRS Multi Slot Class	GPRS Class 12, EGPRS Class 12
WCDMA Operating Band(s)	FDD Band I / II / V / VIII
WCDMA Rel. Version	Rel. 8
LTE Operating Band(s)	FDD Band I / III / VII / VIII / XXVIII TDD Band XL
LTE Rel. Version	Rel. 8
Wi-Fi Specification	802.11a/b/g/n (HT20/HT40)
Bluetooth Version	v3.0 + EDR / v4.0 - LE
NFC Specification	ISO14443A / ISO14443B / Felica
Power Supply	Battery / AC Adapter / Car Charger

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. Details of Tested Sample (EUT) Information

Below EUT sample and accessory are used to test.

EUT Information List				
IMEI	HW Version	SW Version	S/N	Performed Test Item
IMEI 1: 004402453877544 IMEI 2: 004402453877551	A	27.1.B.0.38	RU4C16D21697	Conducted Emission Radiated Emission

Accessory List	
Battery	Model No. : Ram
Earphone	Model No. : MH410c
	Type No. : AG-1103
	S/N : 1411204A00BCA82
USB Cable	Model No. : EC450
	Type No. : AI-0700
	S/N : 141612D614722136

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.

1.5. 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.		IC Registration No.
	CO05-HY	03CH06-HY	4086B-1

1.7. Applied 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
- ♦ IC ICES-003 Issue 5

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.
4. The test results for FCC compliance, indicating that these results are deemed satisfactory evidence of compliance with **Industry Canada Interference-Causing Equipment Standard ICES-003**.



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.

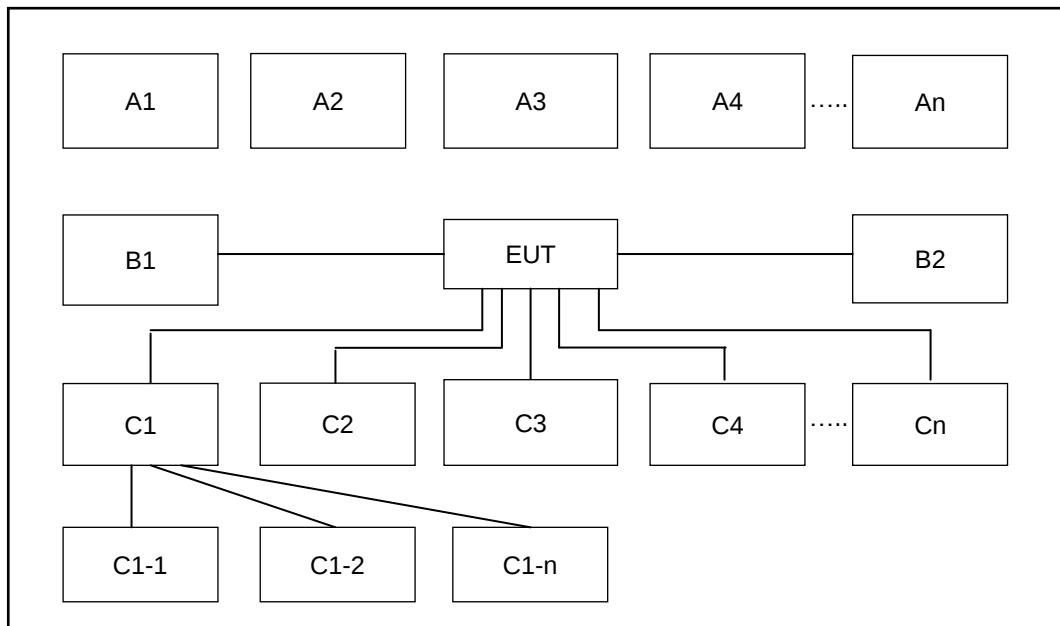
Item	EUT Configuration	Test Condition	
		EMI AC	EMI RE
1.	Data Link with Notebook	☒	☒

The data application (each file size is greater than 30Mbytes) is continuously transferred between the EUT and Notebook connected via USB cable, while GSM, WLAN, and Bluetooth and GPS idle.

Abbreviations:

- EMI AC: AC conducted emissions
- EMI RE: EUT radiated emissions

2.2. Connection Diagram of Test System



Conduction Test Setup									
No.	Wireless Station	Connection Type	Test Mode						
			1	2	3	-	-	-	-
A1	BT Earphone	Bluetooth	X	X	X				
A2	System Simulator	GSM	X	X	X				
A3	GPS Station	GPS	X		X				
A4	AP router	WiFi	X	X	X				
A5	NFC Card	NFC		X					
No.	Setup Peripherals	Connection Type	1	2	3	-	-	-	-
C1	Notebook	USB cable	X	X	X				
C1-1	iPod	USB Cable to C1	X	X	X				
C1-2	AP router	RJ-45 Cable to C1	X	X	X				
C2	Earphone	Earphone jack	X	X	X				
C3	SD card	SD I/O interface without cable	X	X	X				

Radiation Test Setup									
No.	Wireless Station	Connection Type	Test Mode						
			1	2	3	-	-	-	-
A1	BT Earphone	Bluetooth	X	X	X				
A2	System Simulator	GSM	X	X	X				
A3	GPS Station	GPS	X						
A4	NFC Card	NFC		X	X				
A5	AP router	WiFi	X	X	X				
No.	Setup Peripherals	Connection Type	1	2	3	-	-	-	-
C1	Notebook	USB cable	X	X	X				
C1-1	iPod	USB Cable to C1	X	X	X				
C1-2	WLAN AP	RJ-45 Cable to C1	X	X	X				
C2	Earphone	Earphone jack	X	X	X				
C3	SD card	SD I/O interface without cable	X	X	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-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
5.	WLAN AP	D-Link	DIR-865L	KA2IR865LA1	N/A	Unshielded, 1.8 m
6.	Bluetooth Earphone	Sony	SBH20	PY7-RD0010	Unshielded, 0.75m	N/A
7.	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
8.	iPod	Apple	A1199	FCC DoC	Shielded, 1.0 m	N/A
9.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
10.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
11.	NFC Card	Metro Taipei	Easy Card	N/A	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 GSM and Bluetooth, WLAN and GPS idle.

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.

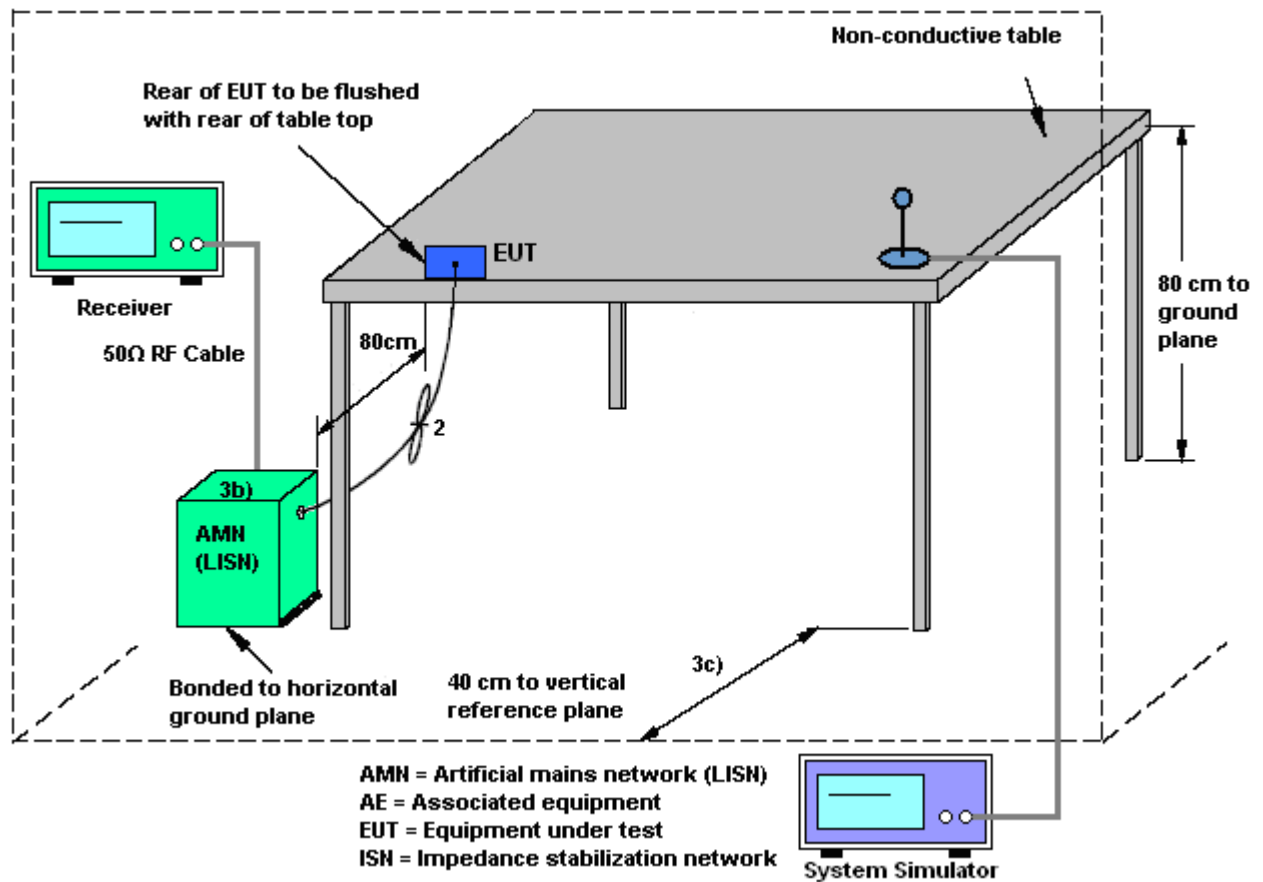
3.1.2 Measuring Instruments

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

3.1.3 Test Procedure

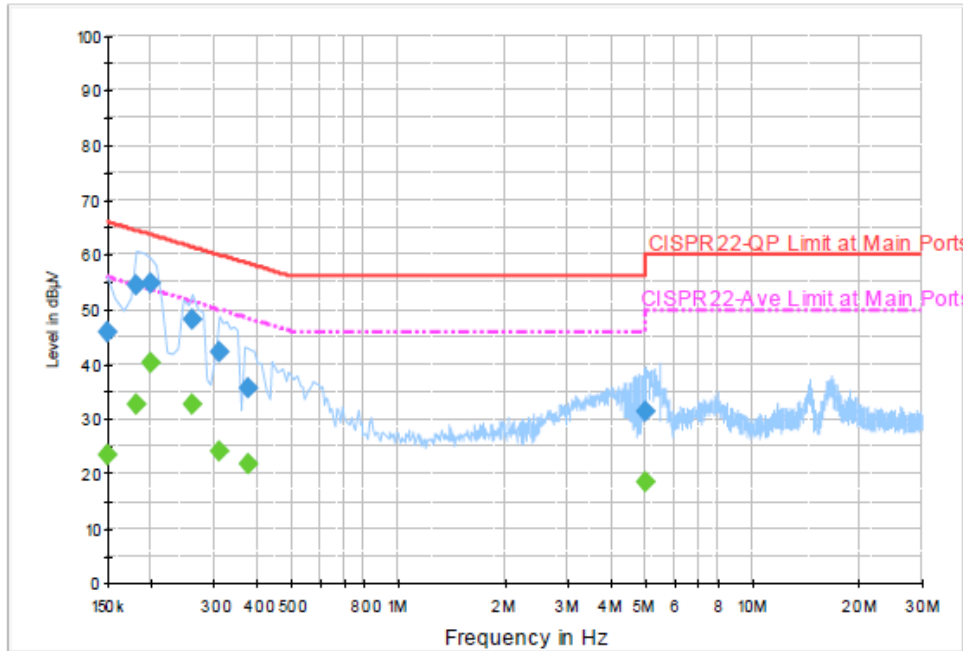
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
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°C
Test Engineer :	Eric Jeng	Relative Humidity :	46~48%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	Data Link with Notebook (with USB cable) + WLAN (2.4GHz) Idle + GPS Rx + SIM1		



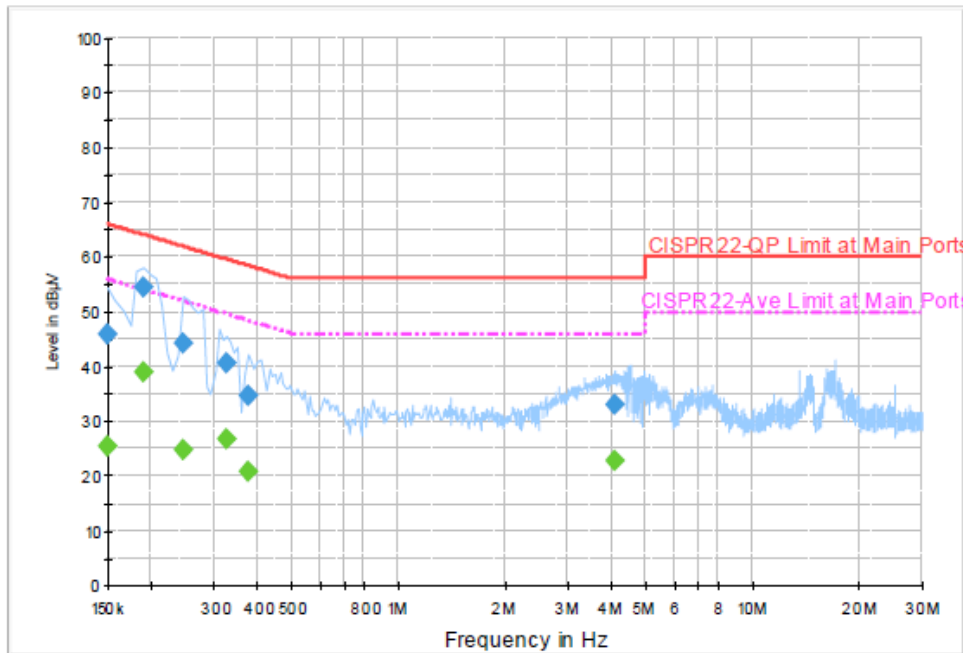
Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	45.8	Off	L1	19.5	20.2	66.0
0.182000	54.4	Off	L1	19.4	10.0	64.4
0.198000	54.9	Off	L1	19.4	8.8	63.7
0.262000	48.2	Off	L1	19.4	13.2	61.4
0.310000	42.4	Off	L1	19.5	17.6	60.0
0.374000	35.7	Off	L1	19.5	22.7	58.4
4.974000	31.4	Off	L1	19.7	24.6	56.0

Final Result : Average

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	23.4	Off	L1	19.5	32.6	56.0
0.182000	32.6	Off	L1	19.4	21.8	54.4
0.198000	40.1	Off	L1	19.4	13.6	53.7
0.262000	32.8	Off	L1	19.4	18.6	51.4
0.310000	24.0	Off	L1	19.5	26.0	50.0
0.374000	21.9	Off	L1	19.5	26.5	48.4
4.974000	18.6	Off	L1	19.7	27.4	46.0

Test Mode :	Mode 1	Temperature :	21~23℃
Test Engineer :	Eric Jeng	Relative Humidity :	46~48%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	Data Link with Notebook (with USB cable) + WLAN (2.4GHz) Idle + GPS Rx + SIM1		

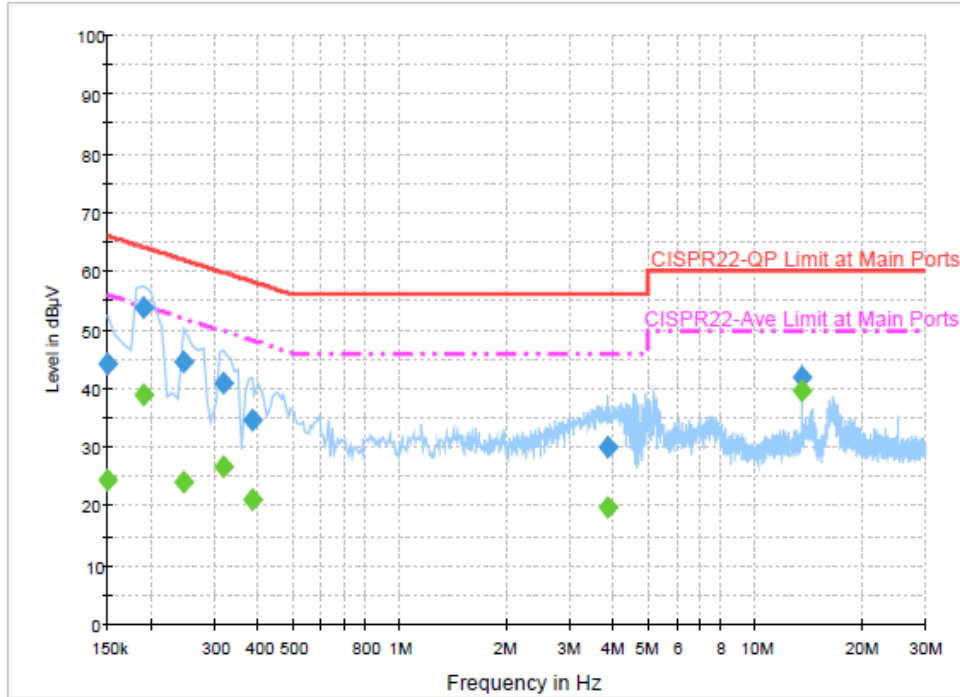

Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	46.0	Off	N	19.5	20.0	66.0
0.190000	54.4	Off	N	19.4	9.6	64.0
0.246000	44.2	Off	N	19.4	17.7	61.9
0.326000	40.7	Off	N	19.5	18.9	59.6
0.374000	34.7	Off	N	19.5	23.7	58.4
4.054000	33.1	Off	N	19.7	22.9	56.0

Final Result : Average

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	25.3	Off	N	19.5	30.7	56.0
0.190000	39.1	Off	N	19.4	14.9	54.0
0.246000	24.9	Off	N	19.4	27.0	51.9
0.326000	26.7	Off	N	19.5	22.9	49.6
0.374000	20.6	Off	N	19.5	27.8	48.4
4.054000	22.6	Off	N	19.7	23.4	46.0

Test Mode :	Mode 2	Temperature :	21~23℃
Test Engineer :	Eric Jeng	Relative Humidity :	46~48%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	Data Link with Notebook (with USB cable) + WLAN (5GHz) Idle + NFC On + SIM1		

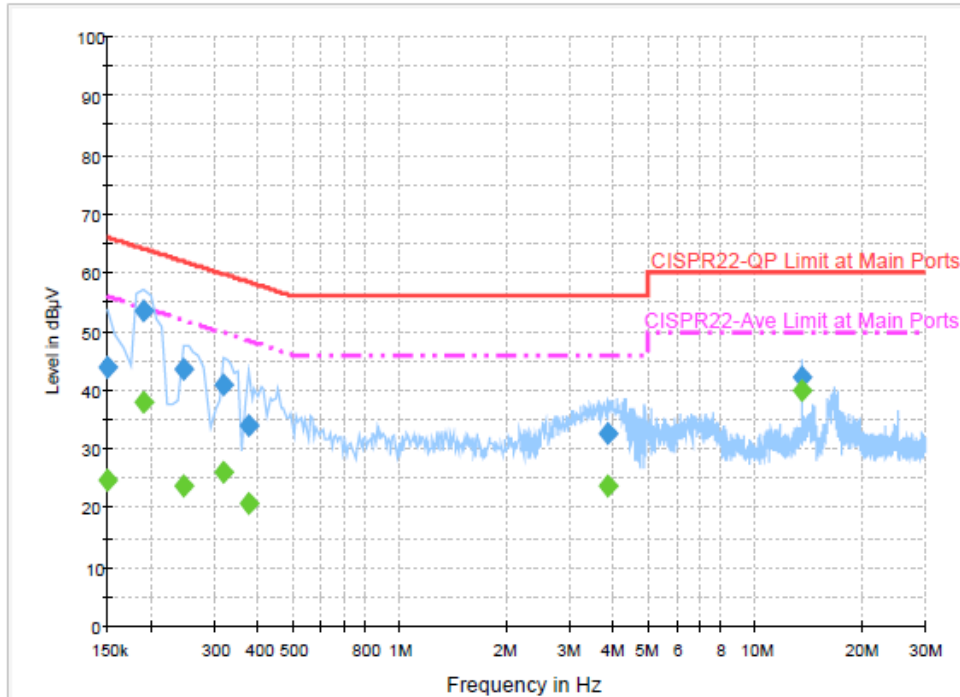

Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	44.2	Off	L1	19.5	21.8	66.0
0.190000	53.9	Off	L1	19.4	10.1	64.0
0.246000	44.4	Off	L1	19.4	17.5	61.9
0.318000	40.9	Off	L1	19.5	18.9	59.8
0.382000	34.8	Off	L1	19.5	23.4	58.2
3.846000	30.0	Off	L1	19.7	26.0	56.0
13.558000	41.9	Off	L1	19.9	18.1	60.0

Final Result : Average

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	24.4	Off	L1	19.5	31.6	56.0
0.190000	39.0	Off	L1	19.4	15.0	54.0
0.246000	24.2	Off	L1	19.4	27.7	51.9
0.318000	26.7	Off	L1	19.5	23.1	49.8
0.382000	21.2	Off	L1	19.5	27.0	48.2
3.846000	19.9	Off	L1	19.7	26.1	46.0
13.558000	39.6	Off	L1	19.9	10.4	50.0

Test Mode :	Mode 2	Temperature :	21~23℃
Test Engineer :	Eric Jeng	Relative Humidity :	46~48%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	Data Link with Notebook (with USB cable) + WLAN (5GHz) Idle + NFC On + SIM1		

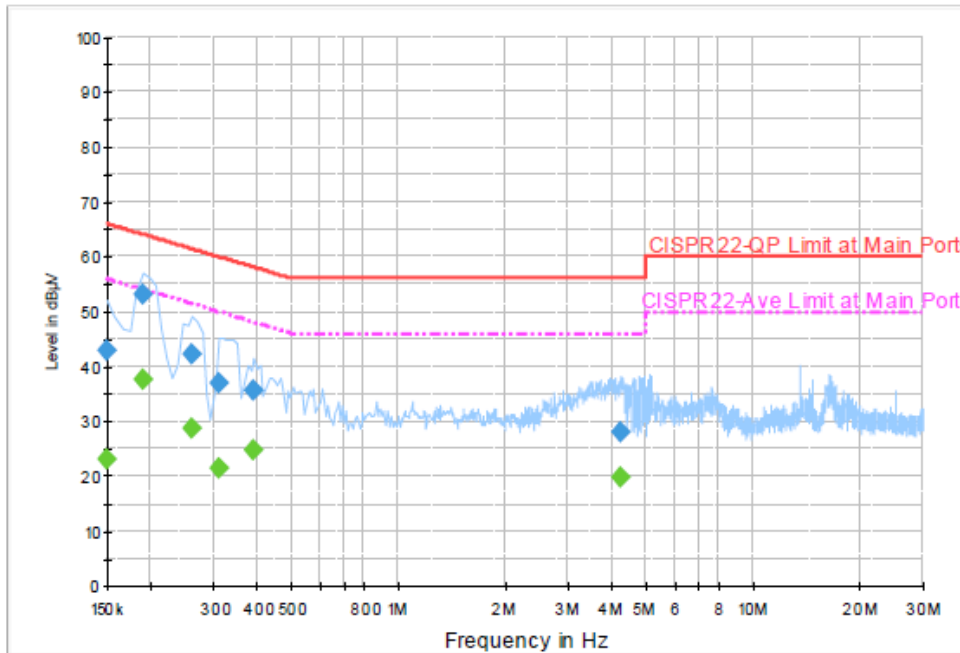

Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	43.9	Off	N	19.5	22.1	66.0
0.190000	53.6	Off	N	19.4	10.4	64.0
0.246000	43.7	Off	N	19.4	18.2	61.9
0.318000	40.9	Off	N	19.5	18.9	59.8
0.374000	33.9	Off	N	19.5	24.5	58.4
3.854000	32.8	Off	N	19.7	23.2	56.0
13.558000	42.1	Off	N	19.9	17.9	60.0

Final Result : Average

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	24.8	Off	N	19.5	31.2	56.0
0.190000	38.0	Off	N	19.4	16.0	54.0
0.246000	23.7	Off	N	19.4	28.2	51.9
0.318000	26.1	Off	N	19.5	23.7	49.8
0.374000	20.7	Off	N	19.5	27.7	48.4
3.854000	23.7	Off	N	19.7	22.3	46.0
13.558000	39.8	Off	N	19.9	10.2	50.0

Test Mode :	Mode 3	Temperature :	21~23℃
Test Engineer :	Eric Jeng	Relative Humidity :	46~48%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	Data Link with Notebook (with USB cable) + WLAN (2.4GHz)Idle + GPS Rx + SIM2		

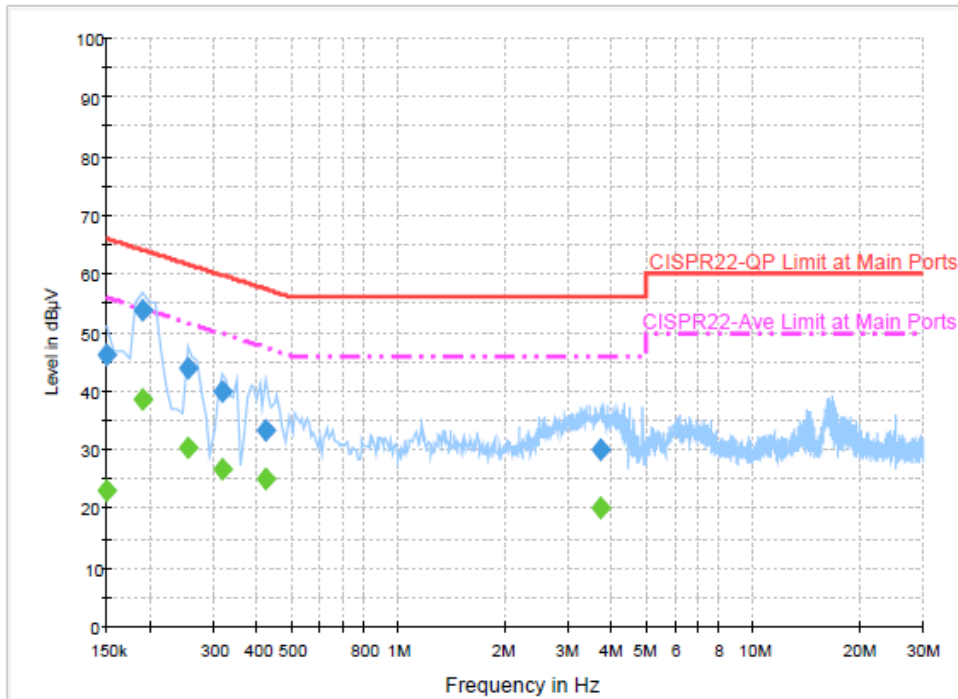

Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	43.0	Off	L1	19.5	23.0	66.0
0.190000	53.3	Off	L1	19.4	10.7	64.0
0.262000	42.4	Off	L1	19.4	19.0	61.4
0.310000	37.0	Off	L1	19.5	23.0	60.0
0.390000	35.6	Off	L1	19.5	22.5	58.1
4.206000	28.1	Off	L1	19.7	27.9	56.0

Final Result : Average

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	23.0	Off	L1	19.5	33.0	56.0
0.190000	37.8	Off	L1	19.4	16.2	54.0
0.262000	28.7	Off	L1	19.4	22.7	51.4
0.310000	21.6	Off	L1	19.5	28.4	50.0
0.390000	24.8	Off	L1	19.5	23.3	48.1
4.206000	19.9	Off	L1	19.7	26.1	46.0

Test Mode :	Mode 3	Temperature :	21~23℃
Test Engineer :	Eric Jeng	Relative Humidity :	46~48%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	Data Link with Notebook (with USB cable) + WLAN (2.4GHz)Idle + GPS Rx + SIM2		


Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	46.2	Off	N	19.5	19.8	66.0
0.190000	53.9	Off	N	19.4	10.1	64.0
0.254000	44.0	Off	N	19.5	17.6	61.6
0.318000	40.0	Off	N	19.5	19.8	59.8
0.422000	33.5	Off	N	19.5	23.9	57.4
3.702000	30.0	Off	N	19.6	26.0	56.0

Final Result : Average

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	23.1	Off	N	19.5	32.9	56.0
0.190000	38.5	Off	N	19.4	15.5	54.0
0.254000	30.3	Off	N	19.5	21.3	51.6
0.318000	26.8	Off	N	19.5	23.0	49.8
0.422000	25.1	Off	N	19.5	22.3	47.4
3.702000	20.0	Off	N	19.6	26.0	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

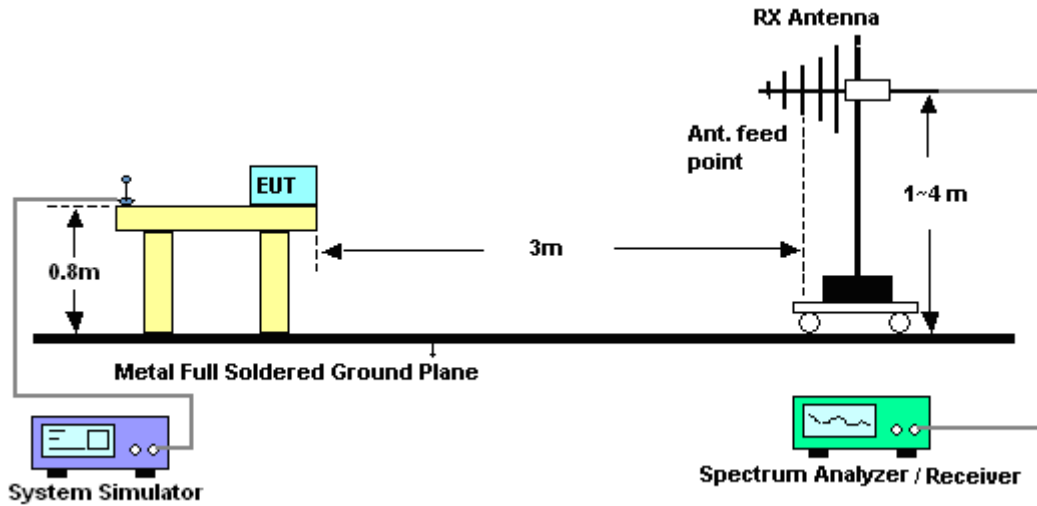
The measuring equipment is listed in the section 4 of this test report.

3.2.3. Test Procedures

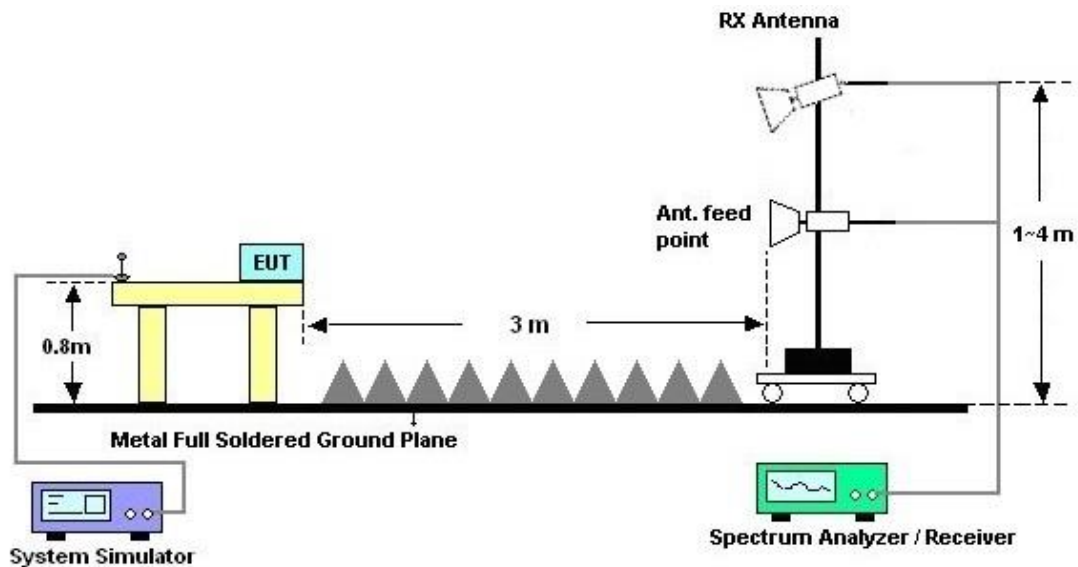
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna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

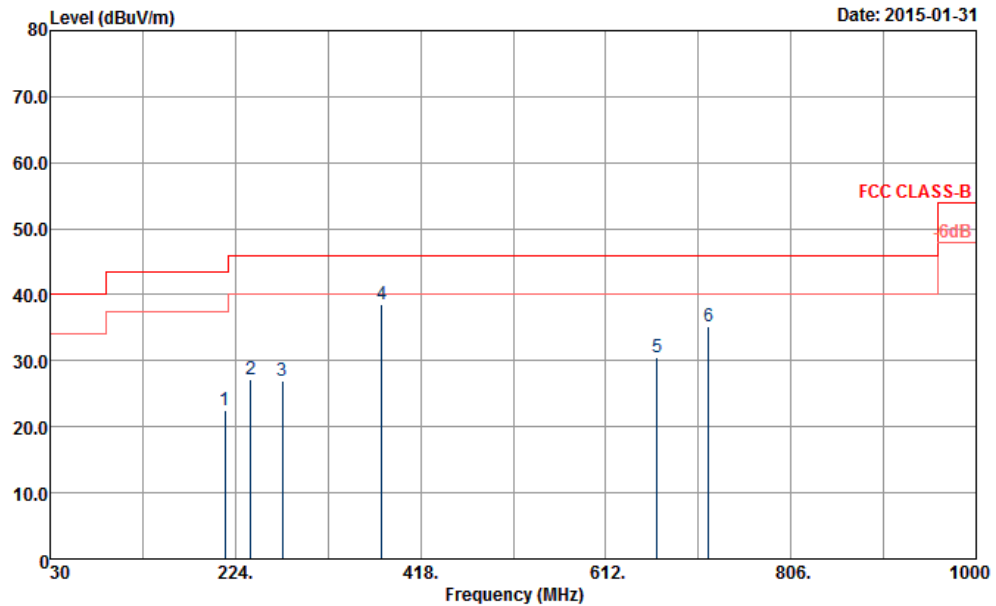


For radiated emissions above 1GHz



3.2.5. Test Result of Radiated Emission

Test Mode :	Mode 1	Temperature :	20~23°C
Test Engineer :	Donny Tang	Relative Humidity :	50~53%
Test Distance :	3m	Polarization :	Horizontal
Function Type :	Data Link with Notebook (with USB cable) + WLAN (2.4GHz) Idle + GPS Rx + SIM1		



Site : 03CH06-HY

Condition : FCC CLASS-B 3m BILOG_131010_9664 HORIZONTAL

Project : 4D3141

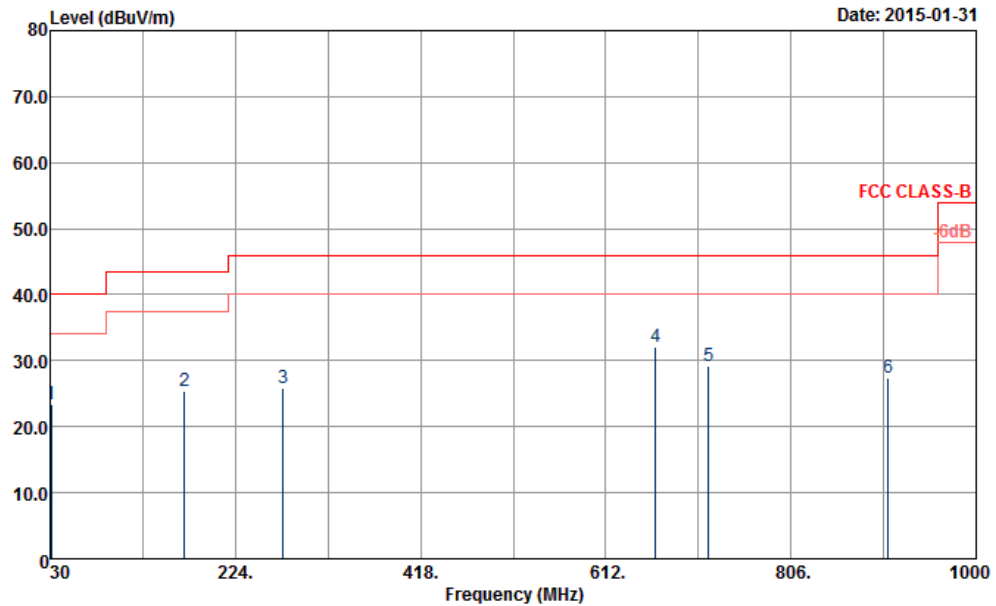
Power : From System

Mode : Mode 1

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	213.06	22.42	-21.08	43.50	43.31	9.27	1.59	31.75	---	---	Peak
2	240.06	27.10	-18.90	46.00	45.76	11.39	1.69	31.74	---	---	Peak
3	273.00	26.96	-19.04	46.00	44.13	12.74	1.82	31.73	---	---	Peak
4	377.00	38.60	-7.40	46.00	53.36	14.91	2.13	31.80	100	94	Peak
5	665.40	30.57	-15.43	46.00	40.82	18.95	2.83	32.03	---	---	Peak
6	720.00	35.30	-10.70	46.00	45.26	19.10	2.95	32.01	---	---	Peak



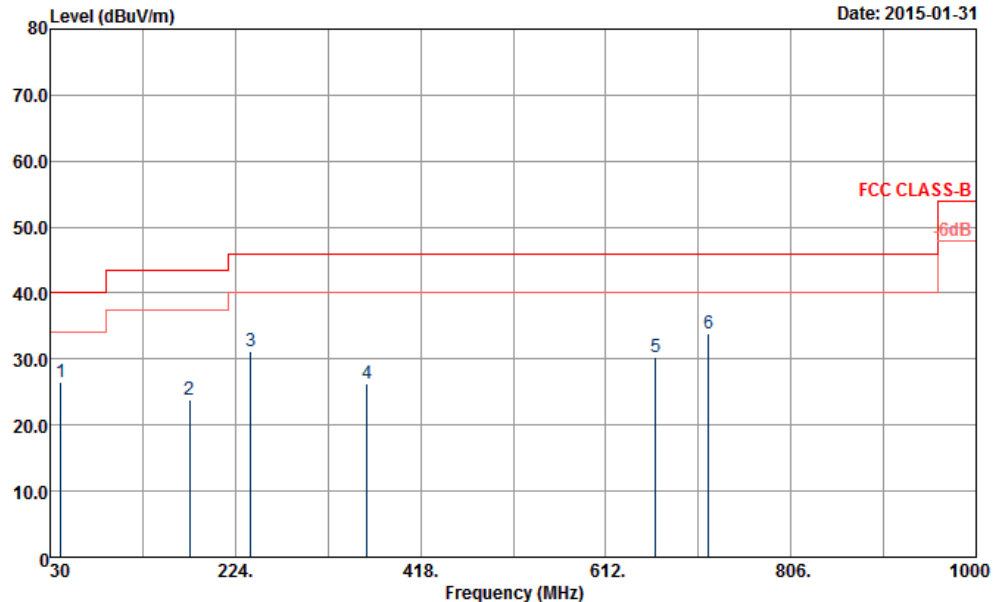
Test Mode :	Mode 1	Temperature :	20~23°C
Test Engineer :	Donny Tang	Relative Humidity :	50~53%
Test Distance :	3m	Polarization :	Vertical
Function Type :	Data Link with Notebook (with USB cable) + WLAN (2.4GHz) Idle + GPS Rx + SIM1		



Site : 03CH06-HY
Condition : FCC CLASS-B 3m BILOG_131010_9664 VERTICAL
Project : 4D3141
Power : From System
Mode : Mode 1

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	31.35	23.47	-16.53	40.00	36.59	18.02	0.65	31.79	---	---	Peak
2	170.40	25.49	-18.01	43.50	45.97	9.66	1.61	31.75	---	---	Peak
3	274.35	25.88	-20.12	46.00	43.04	12.75	1.82	31.73	---	---	Peak
4	664.00	32.07	-13.93	46.00	42.32	18.95	2.83	32.03	100	231	Peak
5	720.00	29.15	-16.85	46.00	39.11	19.10	2.95	32.01	---	---	Peak
6	907.60	27.47	-18.53	46.00	35.06	20.50	3.37	31.46	---	---	Peak

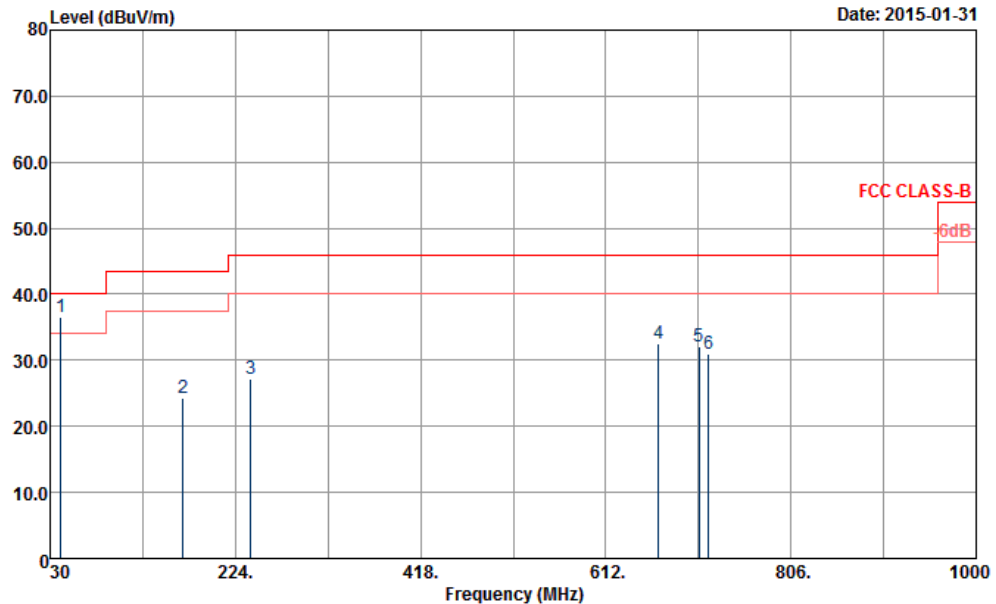
Test Mode :	Mode 2	Temperature :	20~23°C
Test Engineer :	Donny Tang	Relative Humidity :	50~53%
Test Distance :	3m	Polarization :	Horizontal
Function Type :	Data Link with Notebook (with USB cable) + WLAN (5GHz) Idle + NFC On + SIM1		



Site : 03CH06-HY
 Condition : FCC CLASS-B 3m BILOG_131010_9664 HORIZONTAL
 Project : 4D3141
 Power : From System
 Mode : Mode 2

	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	40.80	26.48	-13.52	40.00	44.73	12.80	0.74	31.79	---	---	Peak
2	176.34	23.75	-19.75	43.50	44.55	9.43	1.52	31.75	---	---	Peak
3	240.06	31.17	-14.83	46.00	49.83	11.39	1.69	31.74	---	---	Peak
4	361.60	26.26	-19.74	46.00	41.32	14.62	2.10	31.78	---	---	Peak
5	664.00	30.41	-15.59	46.00	40.66	18.95	2.83	32.03	---	---	Peak
6	720.00	33.86	-12.14	46.00	43.82	19.10	2.95	32.01	100	171	Peak

Test Mode :	Mode 2	Temperature :	20~23°C
Test Engineer :	Donny Tang	Relative Humidity :	50~53%
Test Distance :	3m	Polarization :	Vertical
Function Type :	Data Link with Notebook (with USB cable) + WLAN (5GHz) Idle + NFC On + SIM1		

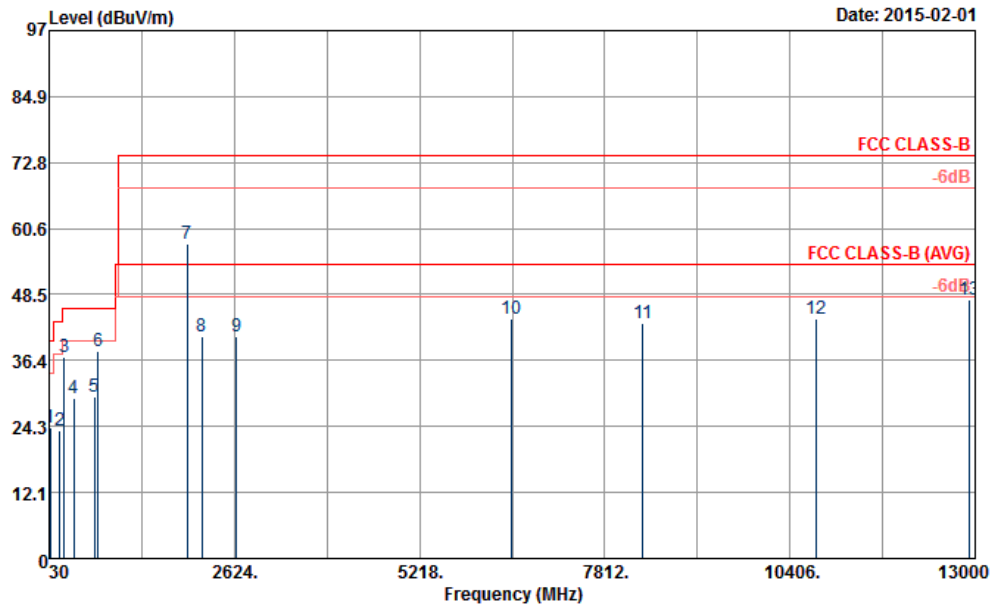


Site : 03CH06-HY
 Condition : FCC CLASS-B 3m BILOG_131010_9664 VERTICAL
 Project : 4D3141
 Power : From System
 Mode : Mode 2

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	Level	Loss	Factor	cm	deg	
					Factor					
1	40.80	36.48	-3.52	40.00	54.73	12.80	0.74	31.79	100	154 Peak
2	169.05	24.22	-19.28	43.50	44.62	9.74	1.61	31.75	---	Peak
3	240.06	27.23	-18.77	46.00	45.89	11.39	1.69	31.74	---	Peak
4	667.50	32.63	-13.37	46.00	42.86	18.97	2.83	32.03	---	Peak
5	709.50	32.03	-13.97	46.00	42.22	18.90	2.92	32.01	---	Peak
6	720.00	31.05	-14.95	46.00	41.01	19.10	2.95	32.01	---	Peak



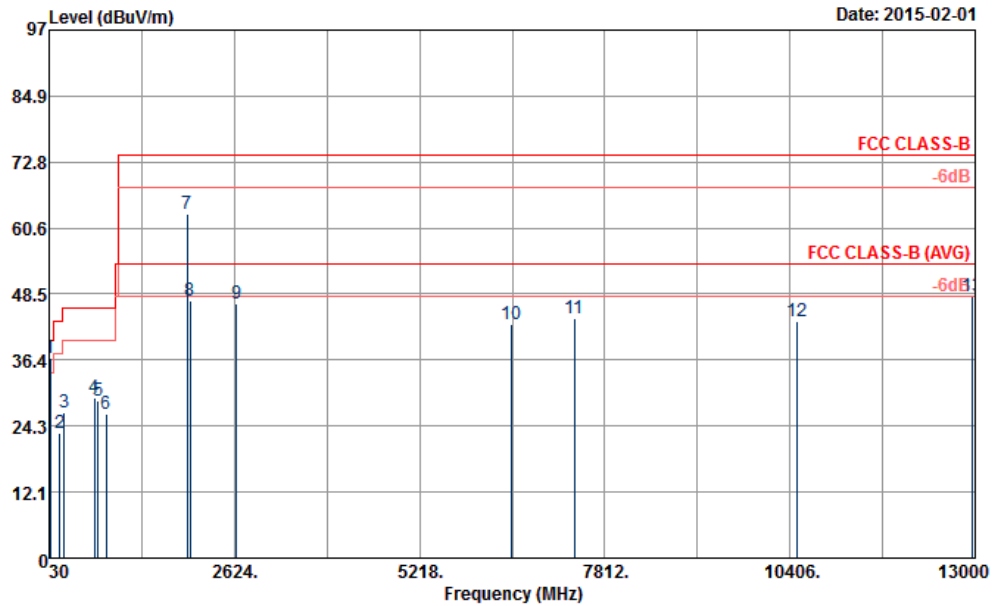
Test Mode :	Mode 3	Temperature :	20~23°C
Test Engineer :	Donny Tang	Relative Humidity :	50~53%
Test Distance :	3m	Polarization :	Horizontal
Function Type :	Data Link with Notebook (with USB cable) + WLAN (5GHz) Idle + NFC On + SIM2		
Remark :	#7 is system simulator signal which can be ignored.		



Site : 03CH06-HY
 Condition : FCC CLASS-B 3m HF-ANT_583_140731 HORIZONTAL
 Project : 4D3141
 Power : From System
 Mode : Mode 3

	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable	Preampl	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	40.80	24.04	-15.96	40.00	42.29	12.80	0.74	31.79	---	---	Peak
2	176.34	23.47	-20.03	43.50	44.27	9.43	1.52	31.75	---	---	Peak
3	240.06	36.96	-9.04	46.00	55.62	11.39	1.69	31.74	---	---	Peak
4	377.00	29.58	-16.42	46.00	44.34	14.91	2.13	31.80	---	---	Peak
5	665.40	29.85	-16.15	46.00	40.10	18.95	2.83	32.03	---	---	Peak
6	720.00	38.16	-7.84	46.00	48.12	19.10	2.95	32.01	100	211	Peak
7	1960.00	57.84			79.63	31.33	5.40	58.52	---	---	Peak
8	2170.00	40.87	-33.13	74.00	61.61	31.80	5.86	58.40	---	---	Peak
9	2656.00	40.77	-33.23	74.00	60.24	32.24	6.49	58.20	---	---	Peak
10	6502.00	43.95	-30.05	74.00	56.75	35.80	9.80	58.40	---	---	Peak
11	8340.00	43.27	-30.73	74.00	54.03	35.66	12.74	59.16	---	---	Peak
12	10776.00	44.17	-29.83	74.00	50.82	37.57	13.47	57.69	---	---	Peak
13	12926.00	47.66	-26.34	74.00	50.64	39.47	15.96	58.41	100	97	Peak

Test Mode :	Mode 3	Temperature :	20~23°C
Test Engineer :	Donny Tang	Relative Humidity :	50~53%
Test Distance :	3m	Polarization :	Vertical
Function Type :	Data Link with Notebook (with USB cable) + WLAN (5GHz) Idle + NFC On + SIM2		
Remark :	#7 is system simulator signal which can be ignored.		



Site : 03CH06-HY
 Condition : FCC CLASS-B 3m HF-ANT_583_140731 VERTICAL
 Project : 4D3141
 Power : From System
 Mode : Mode 3

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	40.80	36.83	-3.17	40.00	55.08	12.80	0.74	31.79	100	216 Peak
2	177.96	23.07	-20.43	43.50	43.97	9.37	1.48	31.75	---	---
3	240.06	26.79	-19.21	46.00	45.45	11.39	1.69	31.74	---	---
4	664.00	29.50	-16.50	46.00	39.75	18.95	2.83	32.03	---	---
5	720.00	28.97	-17.03	46.00	38.93	19.10	2.95	32.01	---	---
6	832.00	26.45	-19.55	46.00	35.06	20.04	3.17	31.82	---	---
7	1960.00	63.17			84.96	31.33	5.40	58.52	---	---
8	2000.00	47.24	-26.76	74.00	68.61	31.70	5.43	58.50	---	---
9	2656.00	46.88	-27.12	74.00	66.35	32.24	6.49	58.20	---	---
10	6506.00	43.05	-30.95	74.00	55.85	35.80	9.80	58.40	---	---
11	7390.00	44.08	-29.92	74.00	55.56	35.72	12.00	59.20	---	---
12	10502.00	43.62	-30.38	74.00	50.90	37.40	13.12	57.80	---	---
13	12952.00	48.06	-25.94	74.00	51.00	39.48	15.99	58.41	100	134 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	Feb. 03, 2015	Nov. 30, 2015	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz ~ 30MHz	Dec. 02, 2014	Feb. 03, 2015	Dec. 01, 2015	Conduction (CO05-HY)
LISN (for auxiliary equipment)	Rohde & Schwarz	ENV216	100081	9kHz ~ 30MHz	Dec. 08, 2014	Feb. 03, 2015	Dec. 07, 2015	Conduction (CO05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Feb. 03, 2015	N/A	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Apr. 23, 2014	Feb. 03, 2015	Apr. 22, 2015	Conduction (CO05-HY)
LF Cable	Shuner	RG-402	N/A	N/A	Oct. 07, 2014	Feb. 03, 2015	Oct. 06, 2015	Conduction (CO05-HY)
Test Software	N/A	EMC32	8.40.0	N/A	N/A	Feb. 03, 2015	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESVS10	834468/0003	20MHz~1000MHz	May. 06, 2014	Jan. 24 2015~ Mar. 11, 2015	May. 05, 2015	Radiation (03CH06-HY)
Spectrum Analyzer	Agilent	E4408B	MY44211028	9kHz ~ 26.5GHz	Aug. 23, 2014	Jan. 24 2015~ Mar. 11, 2015	Aug. 22, 2015	Radiation (03CH06-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100472	20Hz~26.5GHz	Jan. 19, 2015	Jan. 24 2015~ Mar. 11, 2015	Jan. 18, 2016	Radiation (03CH06-HY)
Bilog Antenna	Teseq GmbH	CBL6112D	35379	30MHz -2GHz	Sep. 27, 2014	Jan. 24 2015~ Mar. 11, 2015	Sep. 26, 2015	Radiation (03CH06-HY)
Double Ridge Horn Antenna	EMCO	3117	00066583	1GHz~18GHz	Jul. 24, 2014	Jan. 24 2015~ Mar. 11, 2015	Jul. 23, 2015	Radiation (03CH06-HY)
Amplifier	SONOMA	310N	186713	9kHz~1GHz	Apr. 16, 2014	Jan. 24 2015~ Mar. 11, 2015	Apr. 15, 2015	Radiation (03CH06-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1815698	1GHz~18GHz	Dec. 12, 2014	Jan. 24 2015~ Mar. 11, 2015	Dec. 11, 2015	Radiation (03CH06-HY)
Controller	INN-CO	CO2000	8000604	N/A	N/A	Jan. 24 2015~ Mar. 11, 2015	N/A	Radiation (03CH06-HY)
Turn Table	INN-CO	DS2000	420/650/00	0 ~ 360 degree	N/A	Jan. 24 2015~ Mar. 11, 2015	N/A	Radiation (03CH06-HY)
Antenna Mast	MF	MF-7802	MF780208212	1 m ~ 4 m	N/A	Jan. 24 2015~ Mar. 11, 2015	N/A	Radiation (03CH06-HY)
Hygrometer	WISEWIND	410	BU5004	N/A	May. 06, 2014	Jan. 24 2015~ Mar. 11, 2015	May. 05, 2015	Radiation (03CH06-HY)
RF Cable	HUBER + SUHNER	RG 142	NA	30MHz ~ 1GHz	Nov. 27, 2014	Jan. 24 2015~ Mar. 11, 2015	Nov. 26, 2015	Radiation (03CH06-HY)
RF Cable	Infinet	LL142	Infinet CA3601-3601 -1000	1GHz ~ 26.5GHz	Nov. 27, 2014	Jan. 24 2015~ Mar. 11, 2015	Nov. 26, 2015	Radiation (03CH06-HY)
Test Software	Audix	E3	Version 6.2009-8-24	N/A	N/A	Jan. 24 2015~ Mar. 11, 2015	N/A	Radiation (03CH06-HY)

Note: The test equipment calibration is traceable to the ISO17025.



5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.26
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

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