FCC Test Report

APPLICANT	:	Sony Mobile Communications Inc
EQUIPMENT	:	PDA Phone
BRAND NAME	:	Sony
TYPE NAME	:	PM-0784-BV
FCC ID	:	PY7-PM0784
STANDARD	:	FCC 47 CFR FCC Part 15 Subpart B
CLASSIFICATION	:	FCC CLASS B PERSONAL COMPUTERS AND PERIPHERALS

The product was received on Dec. 04, 2014 and testing was completed on Mar. 14, 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.

Louis Wu

Reviewed by: Louis Wu / Manager

Jones Tsai

Approved by: Jones Tsai / Manager

Testing Laboratory 1190

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

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC4D0466	Rev. 01	Initial issue of report	Mar. 27, 2015

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	Under limit 5.30 dB at 0.182 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 12.57 dB at 246.000 MHz

1. General Description

1.1. Applicant

Sony Mobile Communications Inc
Nya Vattentornet 22188 Lund/Sweden

1.2. Manufacturer

Sony Mobile Communications Inc
Nya Vattentornet 22188 Lund/Sweden

1.3. Feature of Equipment Under Test

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

Product Feature	
Equipment	PDA Phone
Brand Name	Sony
Type Name	PM-0784-BV
FCC ID	PY7-PM0784
GSM Operating Band(s)	GSM 850/900/1800/1900MHz
GPRS / EGPRS Multi Slot Class	GPRS Class 33, EGPRS Class 33
WCDMA Operating Band(s)	FDD Band I / II / IV / V / VIII
WCDMA Rel. Version	Rel. 8
Wi-Fi Specification	802.11b/g/n (HT20) 802.11a/n (HT20/HT40)
Bluetooth Version	v3.0 + EDR / v4.0 - LE
NFC Specification	ISO14443A / ISO14443B / Felica / ISO15693
ANT+	ANT+
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: 004402148131331 IMEI 2: 004402148131349	AP	26.1.B.1.23	YT9111C8WW	Conducted Emission Radiated Emission

Accessory List	
Battery	Model No. : Bellis
Earphone	Model No. : MH410c
	Type No. : AG-1100
	S/N : 12431A1B0011582 (For Conducted Emission) 12431A180011AEC (For Radiated Emission)
USB Cable 1	Model No. : EC450
	Type No. : AI-0700
	S/N : 142412D8250297C (For Conducted Emission) 132312D02961412 (For Radiated Emission)
USB Cable 2	Model No. : AA9
	Type No. : N/A
	S/N : N/A

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 1st 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. 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

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 C63.4-2009 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.

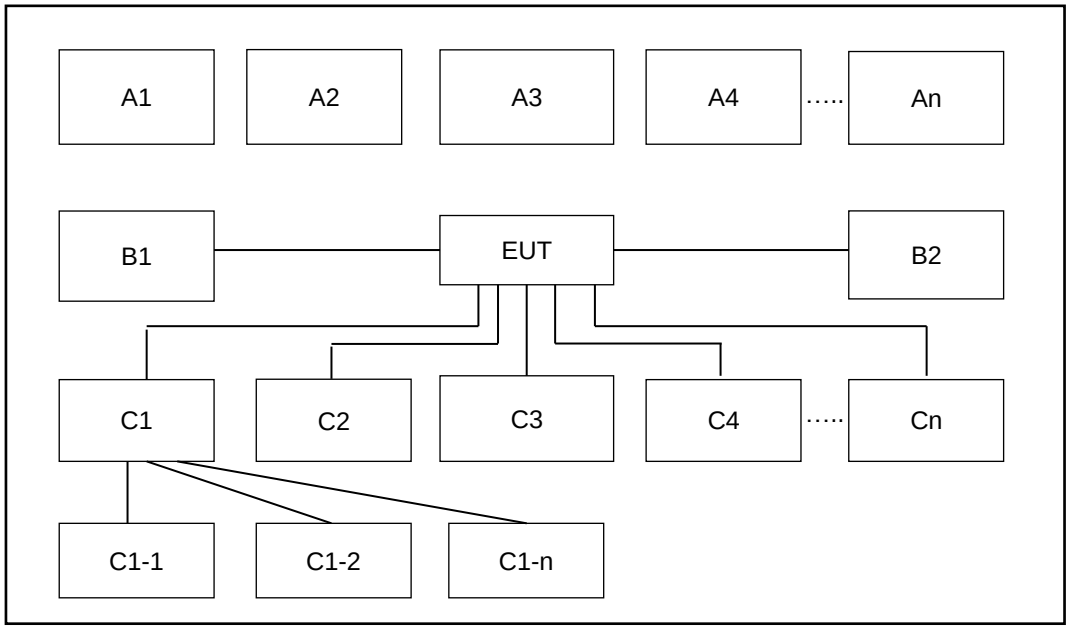
Item	EUT Configuration	Test Condition	
		EMI AC	EMI RE
1.	Data Link with Notebook	☒	☒

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



Radiation & 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 on	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**				

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	A1285	FCC DoC	Shielded, 1.0 m	N/A
9.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
10.	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.

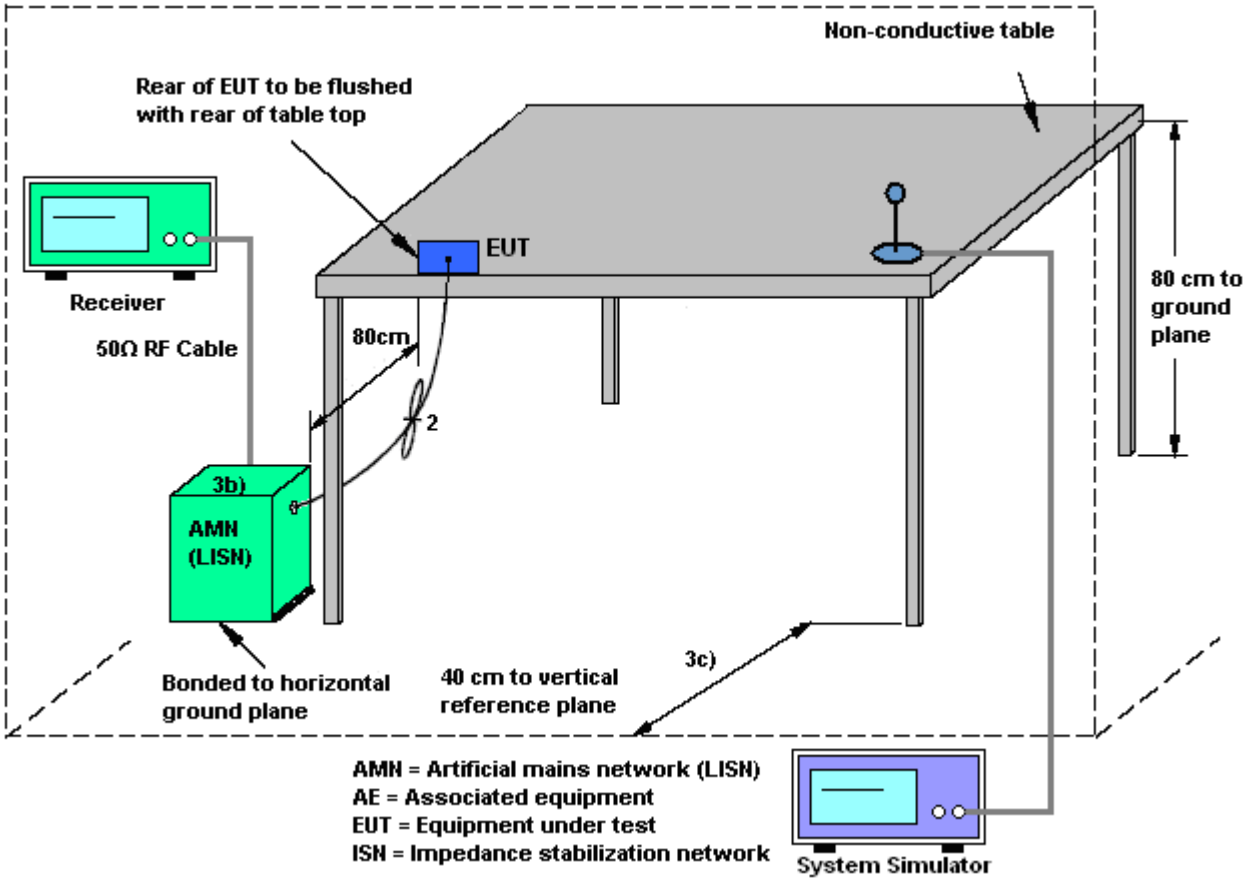
3.1.2 Measuring Instruments

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

3.1.3 Test Procedure

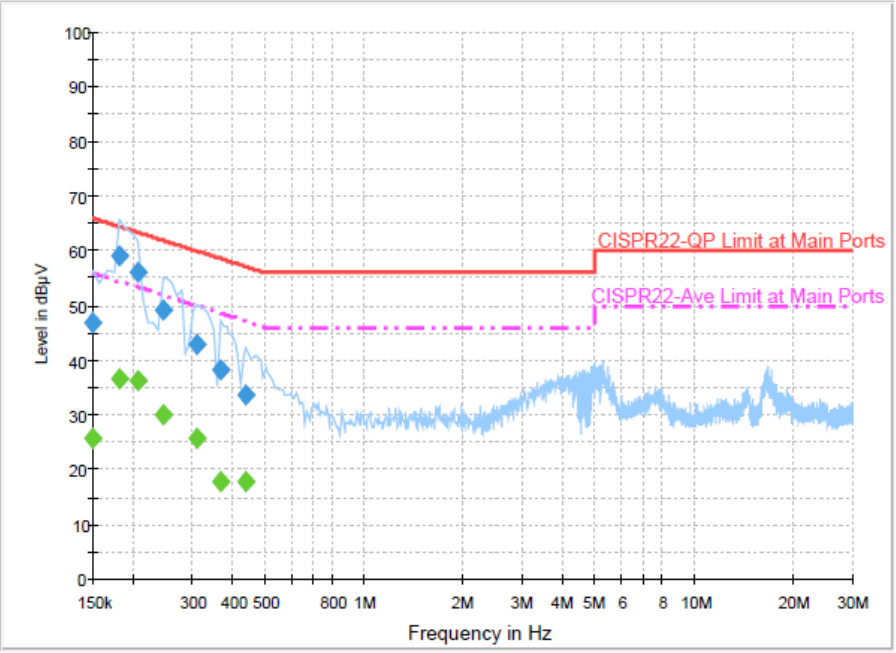
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.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



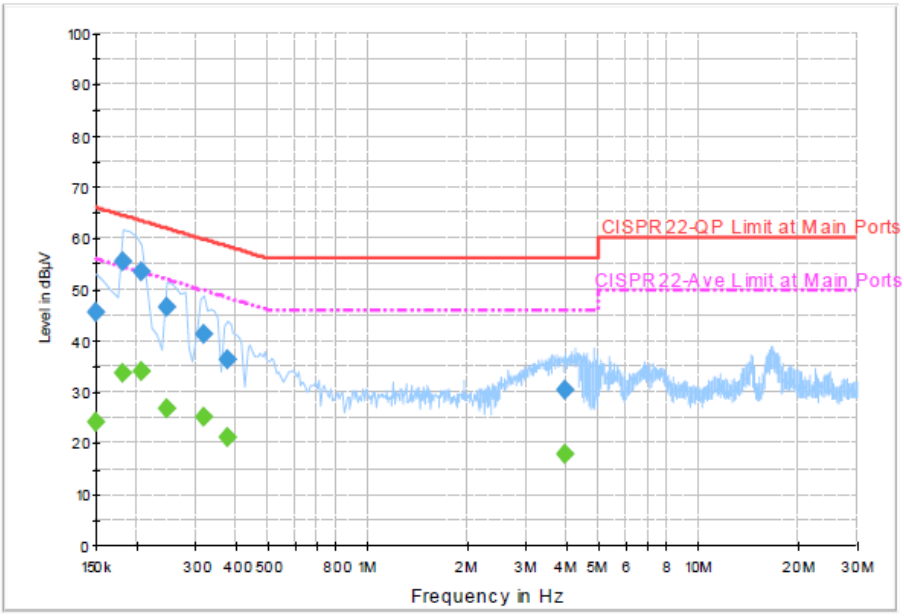
Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	47.0	Off	L1	19.5	19.0	66.0
0.182000	59.1	Off	L1	19.5	5.3	64.4
0.206000	56.1	Off	L1	19.4	7.3	63.4
0.246000	49.2	Off	L1	19.6	12.7	61.9
0.310000	43.0	Off	L1	19.5	17.0	60.0
0.366000	38.2	Off	L1	19.5	20.4	58.6
0.438000	33.7	Off	L1	19.6	23.4	57.1

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	25.6	Off	L1	19.5	30.4	56.0
0.182000	36.6	Off	L1	19.5	17.8	54.4
0.206000	36.3	Off	L1	19.4	17.1	53.4
0.246000	29.9	Off	L1	19.6	22.0	51.9
0.310000	25.6	Off	L1	19.5	24.4	50.0
0.366000	17.8	Off	L1	19.5	30.8	48.6
0.438000	17.8	Off	L1	19.6	29.3	47.1

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 1) + GPS Rx + SIM1		



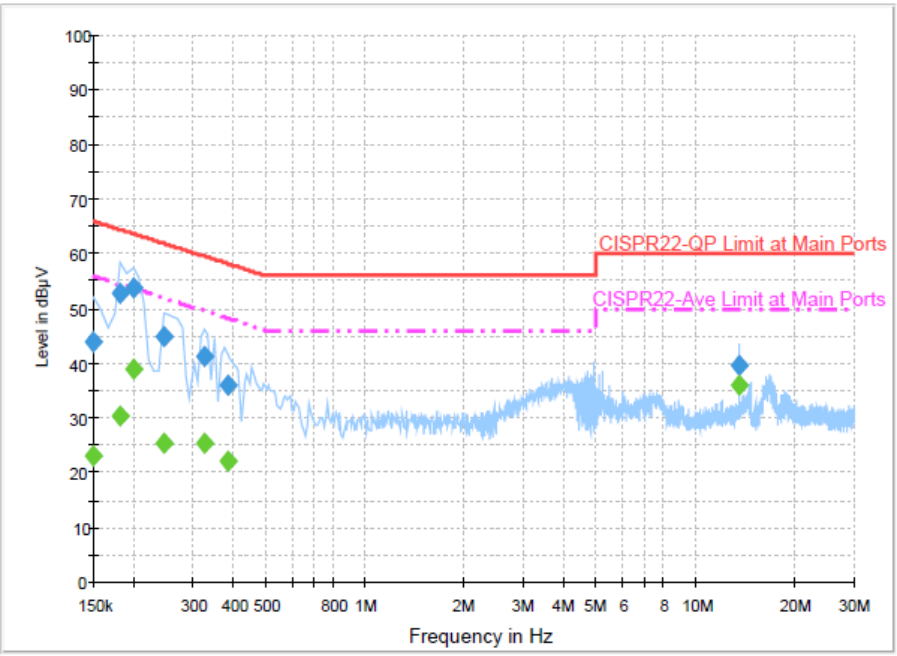
Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	45.5	Off	N	19.5	20.5	66.0
0.182000	55.5	Off	N	19.5	8.9	64.4
0.206000	53.5	Off	N	19.4	9.9	63.4
0.246000	46.4	Off	N	19.6	15.5	61.9
0.318000	41.4	Off	N	19.5	18.4	59.8
0.374000	36.3	Off	N	19.5	22.1	58.4
3.942000	30.5	Off	N	19.6	25.5	56.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	24.0	Off	N	19.5	32.0	56.0
0.182000	33.7	Off	N	19.5	20.7	54.4
0.206000	34.1	Off	N	19.4	19.3	53.4
0.246000	26.6	Off	N	19.6	25.3	51.9
0.318000	25.2	Off	N	19.5	24.6	49.8
0.374000	21.2	Off	N	19.5	27.2	48.4
3.942000	17.8	Off	N	19.6	28.2	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 1) + NFC On + SIM1		



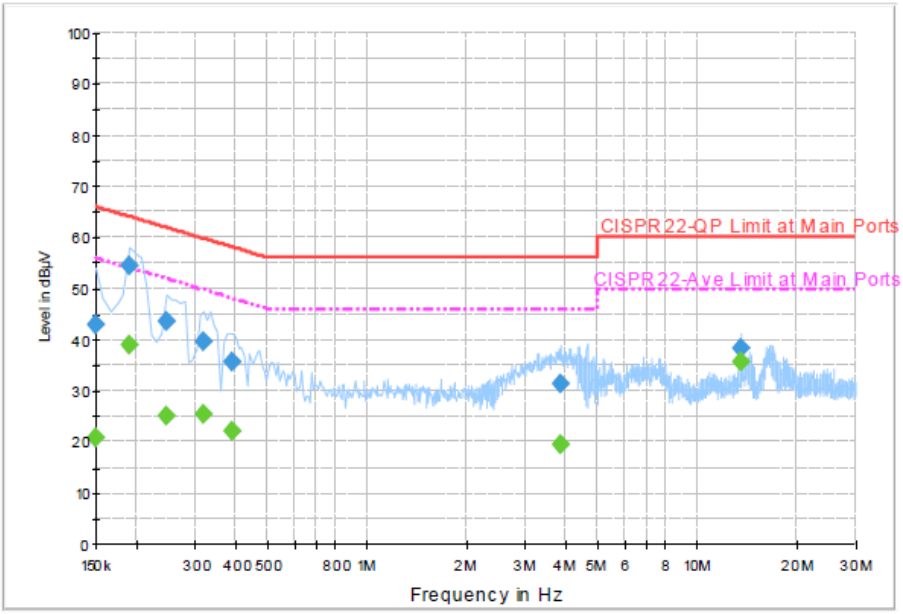
Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	44.0	Off	L1	19.5	22.0	66.0
0.182000	52.9	Off	L1	19.5	11.5	64.4
0.198000	53.9	Off	L1	19.4	9.8	63.7
0.246000	45.0	Off	L1	19.6	16.9	61.9
0.326000	41.1	Off	L1	19.5	18.5	59.6
0.382000	36.0	Off	L1	19.6	22.2	58.2
13.558000	39.7	Off	L1	19.8	20.3	60.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	23.1	Off	L1	19.5	32.9	56.0
0.182000	30.3	Off	L1	19.5	24.1	54.4
0.198000	38.8	Off	L1	19.4	14.9	53.7
0.246000	25.4	Off	L1	19.6	26.5	51.9
0.326000	25.5	Off	L1	19.5	24.1	49.6
0.382000	22.2	Off	L1	19.6	26.0	48.2
13.558000	36.0	Off	L1	19.8	14.0	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 1) + NFC On + SIM1		



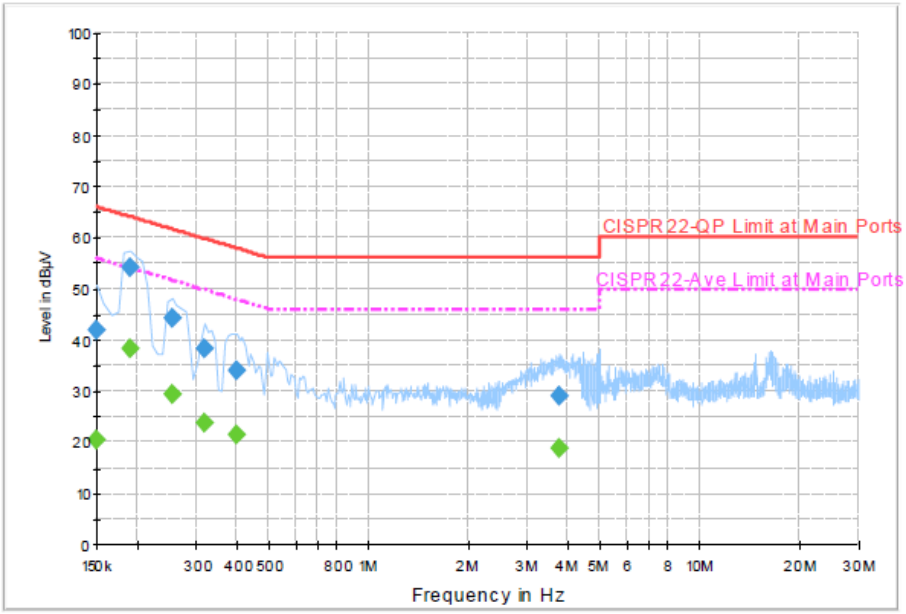
Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	43.0	Off	N	19.5	23.0	66.0
0.190000	54.4	Off	N	19.5	9.6	64.0
0.246000	43.5	Off	N	19.6	18.4	61.9
0.318000	39.7	Off	N	19.5	20.1	59.8
0.390000	35.6	Off	N	19.6	22.5	58.1
3.846000	31.4	Off	N	19.6	24.6	56.0
13.558000	38.3	Off	N	19.8	21.7	60.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	20.9	Off	N	19.5	35.1	56.0
0.190000	38.9	Off	N	19.5	15.1	54.0
0.246000	25.0	Off	N	19.6	26.9	51.9
0.318000	25.5	Off	N	19.5	24.3	49.8
0.390000	22.1	Off	N	19.6	26.0	48.1
3.846000	19.6	Off	N	19.6	26.4	46.0
13.558000	35.6	Off	N	19.8	14.4	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 2) + GPS Rx + SIM2		



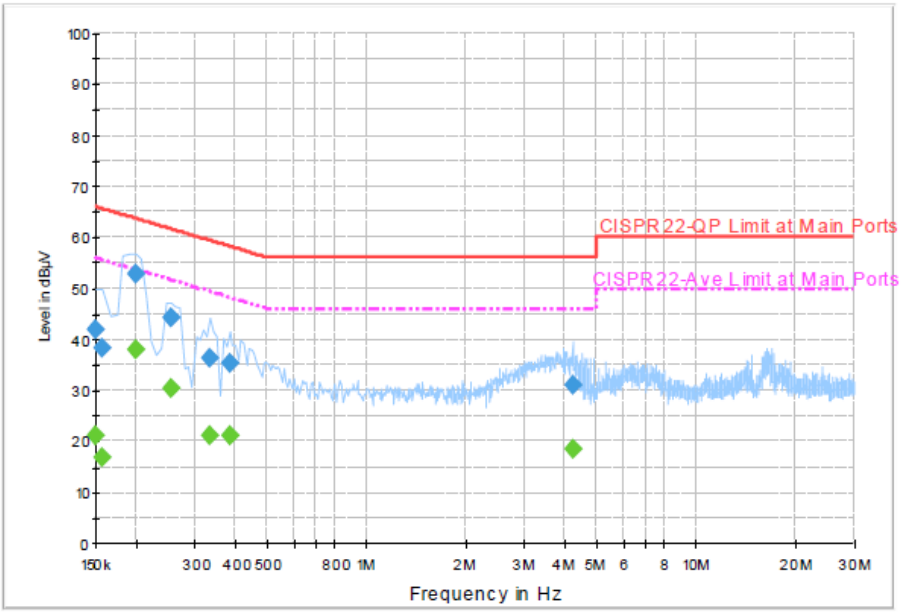
Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	42.0	Off	L1	19.5	24.0	66.0
0.190000	54.2	Off	L1	19.5	9.8	64.0
0.254000	44.3	Off	L1	19.6	17.3	61.6
0.318000	38.2	Off	L1	19.5	21.6	59.8
0.398000	34.0	Off	L1	19.6	23.9	57.9
3.742000	29.2	Off	L1	19.6	26.8	56.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	20.4	Off	L1	19.5	35.6	56.0
0.190000	38.4	Off	L1	19.5	15.6	54.0
0.254000	29.4	Off	L1	19.6	22.2	51.6
0.318000	23.8	Off	L1	19.5	26.0	49.8
0.398000	21.3	Off	L1	19.6	26.6	47.9
3.742000	18.8	Off	L1	19.6	27.2	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 2) + GPS Rx + SIM2		



Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	42.0	Off	N	19.5	24.0	66.0
0.158000	38.4	Off	N	19.5	27.2	65.6
0.198000	52.8	Off	N	19.4	10.9	63.7
0.254000	44.4	Off	N	19.6	17.2	61.6
0.334000	36.3	Off	N	19.5	23.1	59.4
0.382000	35.4	Off	N	19.6	22.8	58.2
4.198000	31.0	Off	N	19.6	25.0	56.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	21.1	Off	N	19.5	34.9	56.0
0.158000	16.7	Off	N	19.5	38.9	55.6
0.198000	38.0	Off	N	19.4	15.7	53.7
0.254000	30.5	Off	N	19.6	21.1	51.6
0.334000	21.2	Off	N	19.5	28.2	49.4
0.382000	21.2	Off	N	19.6	27.0	48.2
4.198000	18.4	Off	N	19.6	27.6	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

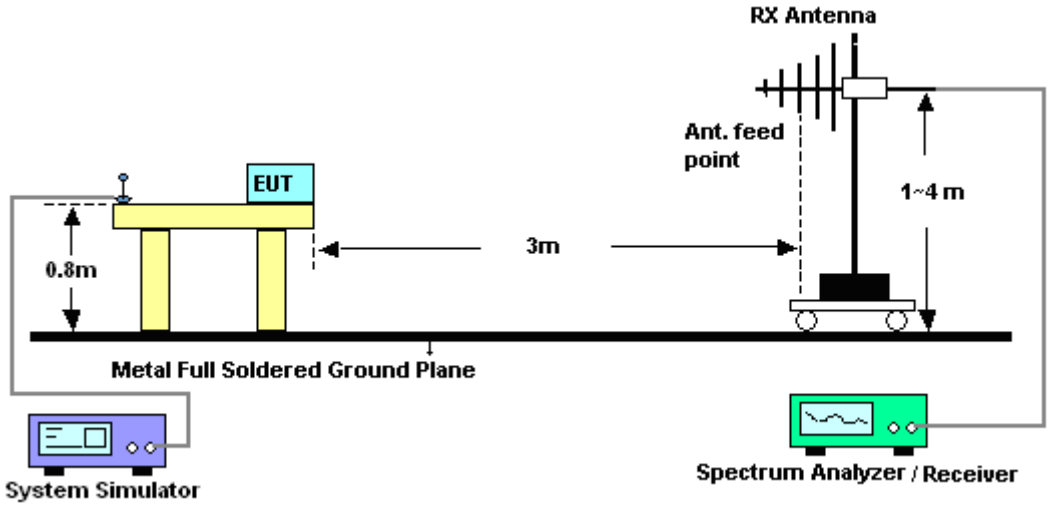
The measuring equipment is listed in the section 4 of this test report.

3.2.3. Test Procedures

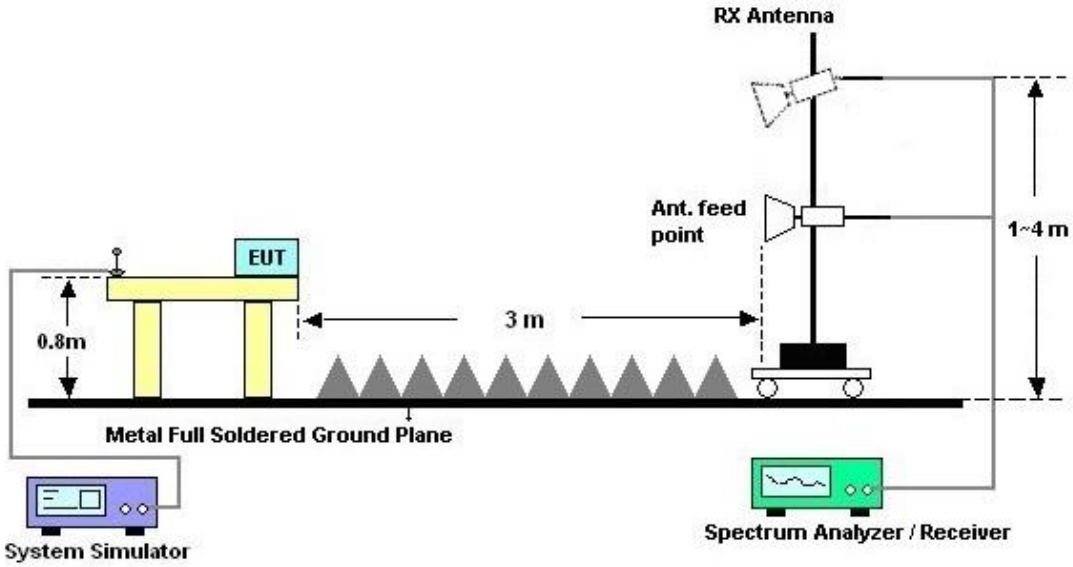
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna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

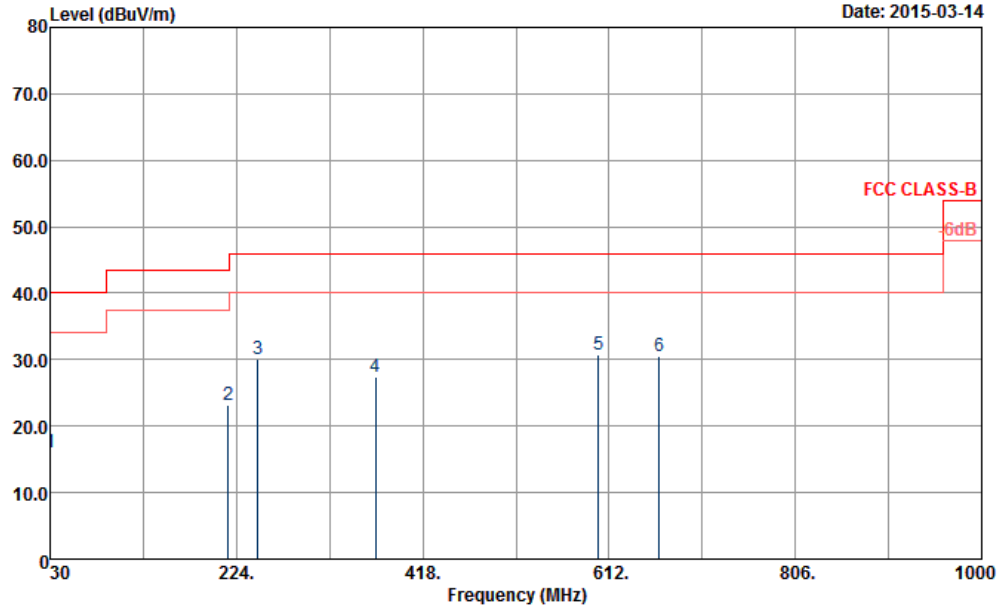


For radiated emissions above 1GHz



3.2.5. Test Result of Radiated Emission

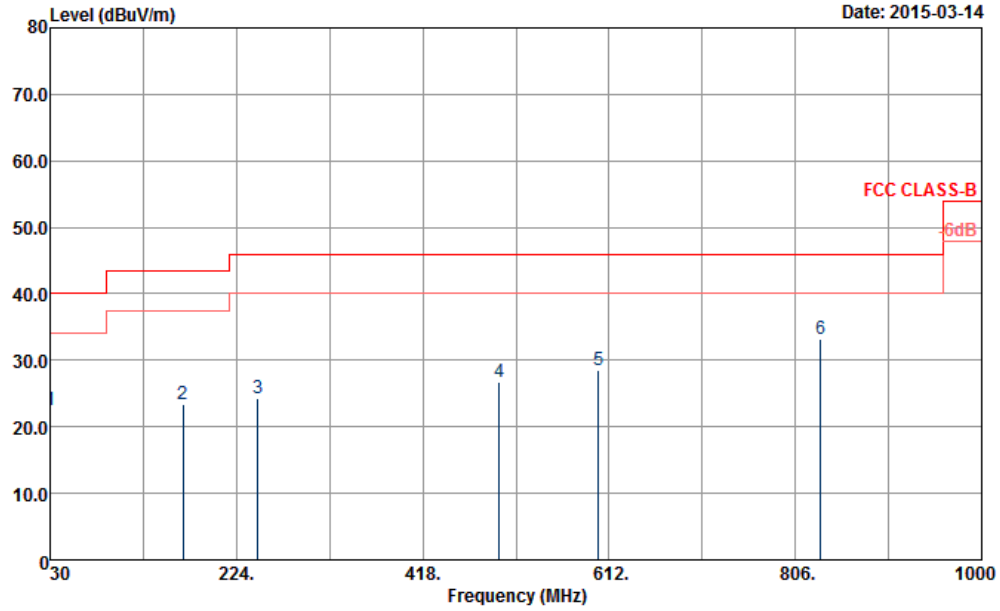
Test Mode :	Mode 1	Temperature :	20~23°C
Test Engineer :	Luke Chang	Relative Humidity :	50~53%
Test Distance :	3m	Polarization :	Horizontal
Function Type :	Data Link with Notebook (with USB cable 1) + GPS Rx + SIM1		



Site : 03CH06-HY
Condition : FCC CLASS-B 3m BILOG_131010 HORIZONTAL
Project : 4D0466
Power : From System
Mode : Mode 1

	Freq	Level	Over Limit	Limit Line	Read 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	30.54	15.94	-24.06	40.00	29.19	17.90	0.65	31.80	---	---	Peak
2	215.49	23.17	-20.33	43.50	44.17	9.15	1.60	31.75	---	---	Peak
3	246.00	30.01	-15.99	46.00	47.99	12.04	1.72	31.74	---	---	Peak
4	368.60	27.44	-18.56	46.00	42.24	14.88	2.11	31.79	---	---	Peak
5	601.00	30.65	-15.35	46.00	40.53	19.41	2.77	32.06	173	143	Peak
6	664.00	30.52	-15.48	46.00	40.27	19.45	2.83	32.03	---	---	Peak

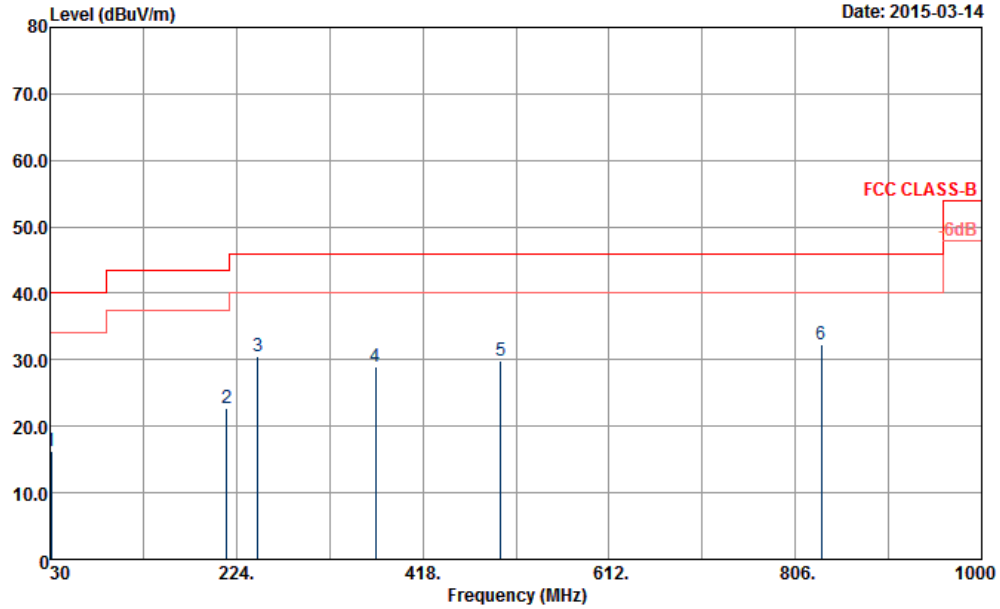
Test Mode :	Mode 1	Temperature :	20~23°C
Test Engineer :	Luke Chang	Relative Humidity :	50~53%
Test Distance :	3m	Polarization :	Vertical
Function Type :	Data Link with Notebook (with USB cable 1) + GPS Rx + SIM1		



Site : 03CH06-HY
Condition : FCC CLASS-B 3m BILOG_131010 VERTICAL
Project : 4D0466
Power : From System
Mode : Mode 1

	Freq	Level	Over Limit	Limit Line	Read 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	30.00	22.52	-17.48	40.00	35.18	18.50	0.64	31.80	---	---	Peak
2	168.24	23.48	-20.02	43.50	43.80	9.82	1.61	31.75	---	---	Peak
3	246.00	24.25	-21.75	46.00	42.23	12.04	1.72	31.74	---	---	Peak
4	497.40	26.84	-19.16	46.00	38.54	17.77	2.46	31.93	---	---	Peak
5	601.00	28.43	-17.57	46.00	38.31	19.41	2.77	32.06	---	---	Peak
6	832.00	33.10	-12.90	46.00	41.13	20.62	3.17	31.82	137	280	Peak

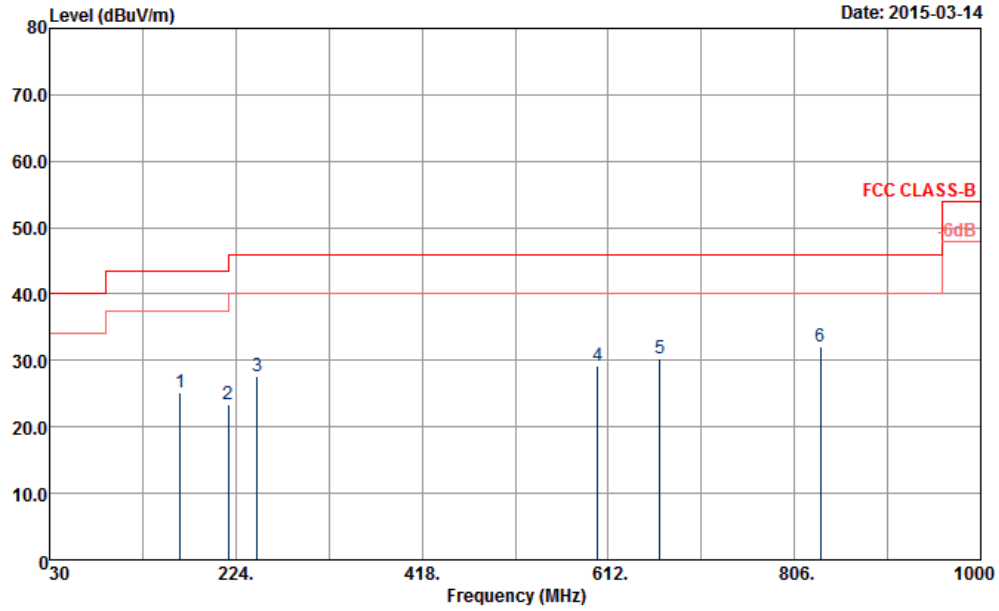
Test Mode :	Mode 2	Temperature :	20~23°C
Test Engineer :	Luke Chang	Relative Humidity :	50~53%
Test Distance :	3m	Polarization :	Horizontal
Function Type :	Data Link with Notebook (with USB cable 1) + NFC On + SIM1		



Site : 03CH06-HY
Condition : FCC CLASS-B 3m BILOG_131010 HORIZONTAL
Project : 4D0466
Power : From System
Mode : Mode 2

	Freq	Level	Over Limit	Limit Line	Read 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	31.35	16.24	-23.76	40.00	29.48	17.90	0.65	31.79	---	---	Peak
2	213.60	22.73	-20.77	43.50	43.76	9.13	1.59	31.75	---	---	Peak
3	246.00	30.47	-15.53	46.00	48.45	12.04	1.72	31.74	---	---	Peak
4	368.60	28.92	-17.08	46.00	43.72	14.88	2.11	31.79	---	---	Peak
5	499.50	29.92	-16.08	46.00	41.58	17.79	2.48	31.93	---	---	Peak
6	833.40	32.37	-13.63	46.00	40.38	20.63	3.17	31.81	166	151	Peak

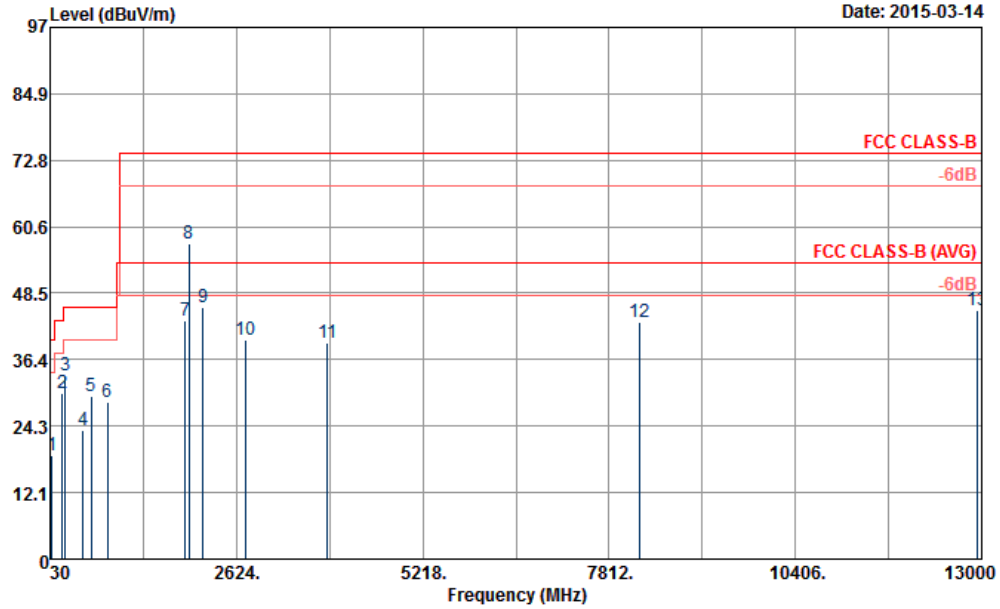
Test Mode :	Mode 2	Temperature :	20~23°C
Test Engineer :	Luke Chang	Relative Humidity :	50~53%
Test Distance :	3m	Polarization :	Vertical
Function Type :	Data Link with Notebook (with USB cable 1) + NFC On + SIM1		



Site : 03CH06-HY
Condition : FCC CLASS-B 3m BILOG_131010 VERTICAL
Project : 4D0466
Power : From System
Mode : Mode 2

	Freq	Level	Over Limit	Limit Line	Read 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	166.35	25.18	-18.32	43.50	45.49	9.86	1.58	31.75	---	---	Peak
2	216.57	23.46	-22.54	46.00	44.44	9.16	1.61	31.75	---	---	Peak
3	246.00	27.58	-18.42	46.00	45.56	12.04	1.72	31.74	---	---	Peak
4	601.00	29.26	-16.74	46.00	39.14	19.41	2.77	32.06	---	---	Peak
5	665.40	30.20	-15.80	46.00	39.95	19.45	2.83	32.03	---	---	Peak
6	833.40	32.04	-13.96	46.00	40.05	20.63	3.17	31.81	203	57	Peak

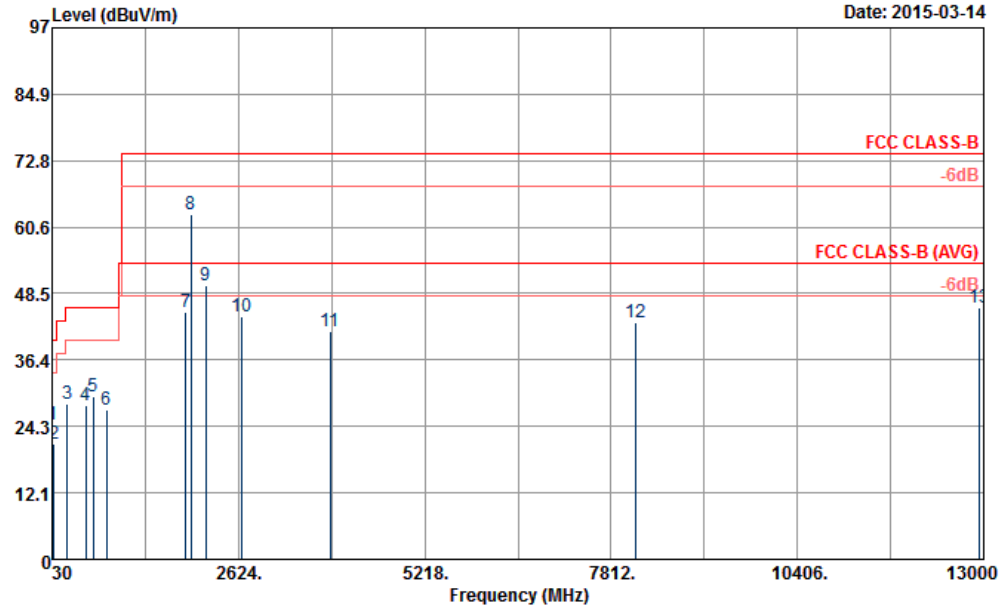
Test Mode :	Mode 3	Temperature :	20~23°C
Test Engineer :	Luke Chang	Relative Humidity :	50~53%
Test Distance :	3m	Polarization :	Horizontal
Function Type :	Data Link with Notebook (with USB cable 2) + GPS Rx + SIM2		
Remark :	#8 is system simulator signal which can be ignored.		



Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_140731 HORIZONTAL
Project : 4D0466
Power : From System
Mode : Mode 3

	Freq	Level	Over Limit	Limit Line	Read 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	57.54	18.82	-21.18	40.00	43.09	6.66	0.85	31.78	---	---	Peak
2	200.10	30.15	-13.35	43.50	51.16	9.20	1.54	31.75	---	---	Peak
3	246.00	33.43	-12.57	46.00	51.41	12.04	1.72	31.74	173	220	Peak
4	492.50	23.54	-22.46	46.00	35.31	17.73	2.42	31.92	---	---	Peak
5	601.00	29.60	-16.40	46.00	39.48	19.41	2.77	32.06	---	---	Peak
6	833.40	28.56	-17.44	46.00	36.57	20.63	3.17	31.81	---	---	Peak
7	1916.00	43.55	-30.45	74.00	67.61	31.08	5.34	60.48	---	---	Peak
8	1960.00	57.54	.		81.30	31.33	5.40	60.49	---	---	Peak
9	2160.00	46.05	-27.95	74.00	68.96	31.79	5.80	60.50	100	0	Peak
10	2744.00	39.95	-34.05	74.00	61.75	32.40	6.55	60.75	---	---	Peak
11	3886.00	39.46	-34.54	74.00	60.34	33.23	7.53	61.64	---	---	Peak
12	8228.00	43.35	-30.65	74.00	54.67	35.71	12.58	59.61	---	---	Peak
13	12928.00	45.43	-28.57	74.00	50.15	39.47	15.96	60.15	---	---	Peak

Test Mode :	Mode 3	Temperature :	20~23°C
Test Engineer :	Luke Chang	Relative Humidity :	50~53%
Test Distance :	3m	Polarization :	Vertical
Function Type :	Data Link with Notebook (with USB cable 2) + GPS Rx + SIM1		
Remark :	#8 is system simulator signal which can be ignored.		



Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_140731 VERTICAL
Project : 4D0466
Power : From System
Mode : Mode 3

	Freq	Level	Over Limit	Limit Line	Read 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	31.35	24.46	-15.54	40.00	37.70	17.90	0.65	31.79	100	39	Peak
2	57.54	21.16	-18.84	40.00	45.43	6.66	0.85	31.78	---	---	Peak
3	246.00	28.35	-17.65	46.00	46.33	12.04	1.72	31.74	---	---	Peak
4	497.40	28.15	-17.85	46.00	39.85	17.77	2.46	31.93	---	---	Peak
5	601.00	29.69	-16.31	46.00	39.57	19.41	2.77	32.06	---	---	Peak
6	784.40	27.41	-18.59	46.00	36.16	20.15	3.06	31.96	---	---	Peak
7	1894.00	45.13	-28.87	74.00	69.35	30.96	5.30	60.48	---	---	Peak
8	1960.00	63.09			86.85	31.33	5.40	60.49	---	---	Peak
9	2166.00	50.11	-23.89	74.00	72.95	31.80	5.86	60.50	100	0	Peak
10	2662.00	44.20	-29.80	74.00	66.11	32.27	6.49	60.67	---	---	Peak
11	3898.00	41.53	-32.47	74.00	62.37	33.23	7.57	61.64	---	---	Peak
12	8156.00	43.17	-30.83	74.00	54.60	35.74	12.47	59.64	---	---	Peak
13	12928.00	45.83	-28.17	74.00	50.55	39.47	15.96	60.15	---	---	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	Mar. 12, 2015	Nov. 30, 2015	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz ~ 30MHz	Dec. 02, 2014	Mar. 12, 2015	Dec. 01, 2015	Conduction (CO05-HY)
LISN (for auxiliary equipment)	Rohde & Schwarz	ENV216	100081	9kHz ~ 30MHz	Dec. 08, 2014	Mar. 12, 2015	Dec. 07, 2015	Conduction (CO05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Mar. 12, 2015	N/A	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Apr. 23, 2014	Mar. 12, 2015	Apr. 22, 2015	Conduction (CO05-HY)
LF Cable	Shuner	RG-402	N/A	N/A	Oct. 07, 2014	Mar. 12, 2015	Oct. 06, 2015	Conduction (CO05-HY)
Test Software	N/A	EMC32	8.40.0	N/A	N/A	Mar. 12, 2015	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESVS10	834468/0003	20MHz-1000MHz	May. 06, 2014	Mar. 14, 2015	May. 05, 2015	Radiation (03CH06-HY)
Spectrum Analyzer	Agilent	E4408B	MY44211028	9kHz ~ 26.5GHz	Aug. 23, 2014	Mar. 14, 2015	Aug. 22, 2015	Radiation (03CH06-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100472	20Hz~26.5GHz	Jan. 19, 2015	Mar. 14, 2015	Jan. 18, 2016	Radiation (03CH06-HY)
Bilog Antenna	Teseq GmbH	CBL6112D	35379	30MHz -2GHz	Sep. 27, 2014	Mar. 14, 2015	Sep. 26, 2015	Radiation (03CH06-HY)
Double Ridge Horn Antenna	EMCO	3117	00066583	1GHz~18GHz	Jul. 24, 2014	Mar. 14, 2015	Jul. 23, 2015	Radiation (03CH06-HY)
Amplifier	SONOMA	310N	186713	9kHz~1GHz	Apr. 16, 2014	Mar. 14, 2015	Apr. 15, 2015	Radiation (03CH06-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1815698	1GHz~18GHz	Dec. 12, 2014	Mar. 14, 2015	Dec. 11, 2015	Radiation (03CH06-HY)
Controller	INN-CO	CO2000	8000604	N/A	N/A	Mar. 14, 2015	N/A	Radiation (03CH06-HY)
Turn Table	INN-CO	DS2000	420/650/00	0 ~ 360 degree	N/A	Mar. 14, 2015	N/A	Radiation (03CH06-HY)
Antenna Mast	MF	MF-7802	MF780208212	1 m ~ 4 m	N/A	Mar. 14, 2015	N/A	Radiation (03CH06-HY)
Hygrometer	WISEWIND	410	BU5004	N/A	May. 06, 2014	Mar. 14, 2015	May. 05, 2015	Radiation (03CH06-HY)
RF Cable	HUBER + SUHNER	RG 142	NA	30MHz ~ 1GHz	Nov. 27, 2014	Mar. 14, 2015	Nov. 26, 2015	Radiation (03CH06-HY)
RF Cable	Infinet	LL142	Infinet CA3601-3601 -1000	1GHz ~ 26.5GHz	Nov. 27, 2014	Mar. 14, 2015	Nov. 26, 2015	Radiation (03CH06-HY)
Test Software	Audix	E3	Version 6.2009-8-24	N/A	N/A	Mar. 14, 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**

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

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