FCC Test Report

APPLICANT : Sony Mobile Communications Inc.
EQUIPMENT : GSM/WCDMA/LTE Phone+Bluetooth,

DTS/UNII a/b/g/n and NFC

BRAND NAME : Sony

FCC ID : PY7-10710W

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION : FCC CLASS B PERSONAL

COMPUTERS AND PERIPHERALS

The product was received on Nov. 22, 2016 and testing was completed on Mar. 02, 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 C63.4-2014 and has been in compliance with the applicable technical standards.

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

Reviewed by: Louis Wu / Manager

Lunis Win

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.

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Testing Laboratory 1190

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC6N2204-01	Rev. 01	Initial issue of report	Mar. 03, 2017

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	FCC Rule Description Limit F		Result	Remark
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	Under limit 12.40 dB at 0.158 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 7.02 dB at 244.110 MHz

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1. General Description

1.1. Applicant

Sony Mobile Communications Inc.

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

1.2. Manufacturer

Sony Mobile Communications Inc.

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

1.3. Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, DTS/UNII a/b/g/n, NFC, and GPS

Product Specification subjective to this standard						
	WWAN: Coupling type (LDS) Antenna WLAN: PIFA Antenna					
Antenna Type	Bluetooth: PIFA Antenna					
	GPS/Glonass: PIFA Antenna NFC: Loop Antenna					

EUT Information List									
HW Version	SW Version	S/N	Performed Test Item						
А	0.79	RQ3003DQ8F	Conducted Emission Radiated Spurious Emission						

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Accessory List						
Model No. : MH410c						
Earphone 1	S/N: 1632A86600007B2					
Fambana 0	Model No. : MH410c					
Earphone 2	S/N: N/A					
HOD O-I-I-	Model No. : UCB20					
USB Cable	S/N: 1625A91900007E2					

Note:

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

1.4. Modification of EUT

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

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1.5. Test Location

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

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

1.6. Applicable Standards

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

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

Remark:

- 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.

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2. Test Configuration of Equipment Under Test

2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

Test Items	Function Type						
AC Conducted	Mode 1: Flight Mode + USB Cable (Data Link with Notebook) + Battery + Earphone 1						
Emission	Mode 2: Flight Mode + USB Cable (Data Link with Notebook) + Battery + Earphone 2						
Radiated	Mode 1: Flight Mode + USB Cable (Data Link with Notebook) + Battery + Earphone 1						
Emissions	Mode 2: Flight Mode + USB Cable (Data Link with Notebook) + Battery + Earphone 2						

Remark:

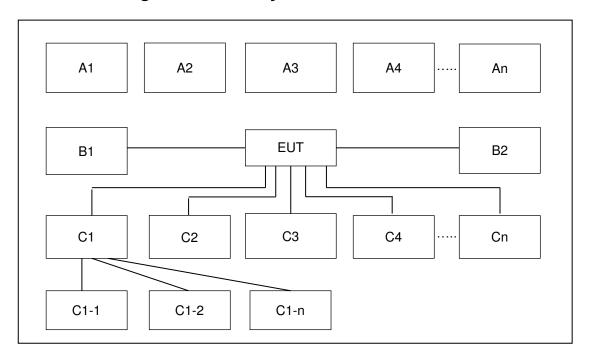
- 1. The worst case of Radiated Emissions was measured for signal above 1GHz.
- Data Link with Notebook means data application transferred mode between EUT and Notebook.

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2.2. Connection Diagram of Test System



	Test Setup								
No.	Wireless Station	Connection Type	Test Mode						
NO.	Wileless Station	Connection Type	1	2	-	-	-	-	-
C1	Notebook	USB Cable	Х	Χ					
C1-1	IPod	USB Cable to C1	Х	Х					
C1-2	AP Router	RJ-45 Cable to C1	Х	Х					
C2	Earphone	Earphone jack	Х	Х					
C3	SD card	SD I/O interface without Cable	Х	Х					

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2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
2.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
4.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
5.	SD Card	Transcend	MicroSD HC	FCC DoC	N/A	N/A

2.4. EUT Operation Test Setup

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

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3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1 Limits of AC Conducted Emission

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

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

^{*}Decreases with the logarithm of the frequency.

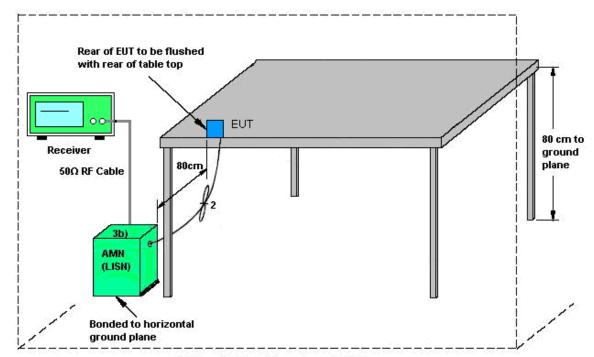
3.1.2 Measuring Instruments

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

3.1.3 Test Procedure

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 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



AMN = Artificial mains network (LISN)

AE = Associated equipment

EUT = Equipment under test

ISN = Impedance stabilization network

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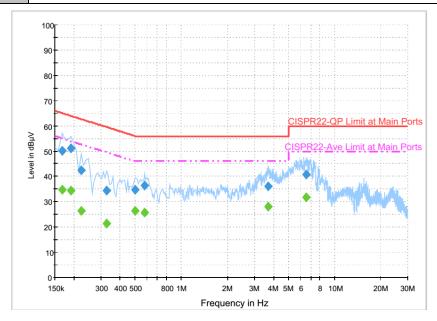
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3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	24~25 ℃
Test Engineer :	Kai-Chun Chu	Relative Humidity :	49~50%
Test Voltage :	120Vac / 60Hz	Phase :	Line

Function Type: Flight Mode + USB Cable (Data Link with Notebook) + Battery + Earphone 1



Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.166000	50.3	Off	L1	19.6	14.9	65.2
0.190000	51.0	Off	L1	19.6	13.0	64.0
0.222000	42.5	Off	L1	19.6	20.2	62.7
0.326000	34.5	Off	L1	19.6	25.1	59.6
0.502000	34.9	Off	L1	19.5	21.1	56.0
0.574000	36.5	Off	L1	19.6	19.5	56.0
3.686000	36.0	Off	L1	19.6	20.0	56.0
6.566000	40.8	Off	L1	19.7	19.2	60.0

Final Result : Average

Frequency (MHz)	Average (dΒμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.166000	34.9	Off	L1	19.6	20.3	55.2
0.190000	34.5	Off	L1	19.6	19.5	54.0
0.222000	26.6	Off	L1	19.6	26.1	52.7
0.326000	21.6	Off L1		19.6	28.0	49.6
0.502000	26.5	Off	L1	19.5	19.5	46.0
0.574000	25.8	Off	L1	19.6	20.2	46.0
3.686000	28.0	Off	L1	19.6	18.0	46.0
6.566000	31.6	Off	L1	19.7	18.4	50.0

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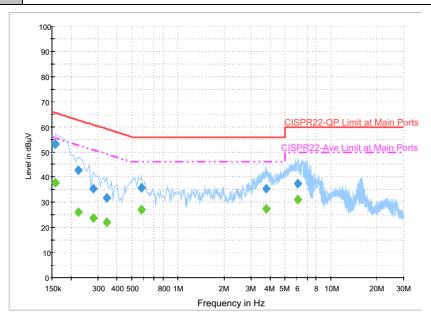
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FCC Test Report

Test Mode :	Mode 1	Temperature :	24~25℃			
Test Engineer :	Kai-Chun Chu	Relative Humidity :	49~50%			
Test Voltage :	120Vac / 60Hz	Phase :	Neutral			

Function Type: |Flight Mode + USB Cable (Data Link with Notebook) + Battery + Earphone 1



Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	53.2	Off	N	19.5	12.4	65.6
0.222000	42.9	Off	N	19.5	19.8	62.7
0.278000	35.5	Off	N	19.5	25.4	60.9
0.342000	31.6	Off	N	19.5	27.6	59.2
0.574000	35.6	Off	N	19.5	20.4	56.0
3.758000	35.5	Off	N	19.6	20.5	56.0
6.110000	37.4	Off	N	19.7	22.6	60.0

Final Result : Average

•	mai ricsuit	. Average					
	Frequency	Average	Filter	Line	Corr.	Margin	Limit
	(MHz)	(dBµV)	riitei	Lille	(dB)	(dB)	(dBµV)
	0.158000	37.9	Off	N	19.5	17.7	55.6
	0.222000	26.2	Off	N	19.5	26.5	52.7
	0.278000	23.7	Off	N	19.5	27.2	50.9
	0.342000	22.2	Off	N	19.5	27.0	49.2
	0.574000	27.1	Off	N	19.5	18.9	46.0
	3.758000	27.4	Off	N	19.6	18.6	46.0
	6.110000	31.2	Off	N	19.7	18.8	50.0

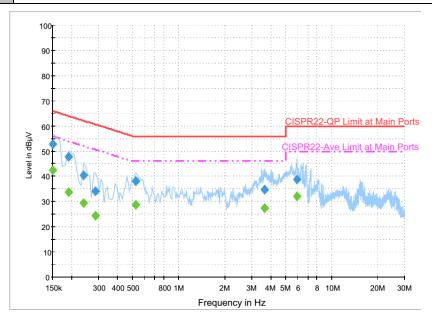
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Test Mode :Mode 2Temperature :24~25°CTest Engineer :Kai-Chun ChuRelative Humidity :49~50%Test Voltage :120Vac / 60HzPhase :Line

Function Type: Flight Mode + USB Cable (Data Link with Notebook) + Battery + Earphone 2



Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	52.8	Off	L1	19.6	13.2	66.0
0.190000	47.8	Off	L1	19.6	16.2	64.0
0.238000	40.5	Off	L1	19.6	21.7	62.2
0.286000	34.2	Off	L1	19.6	26.4	60.6
0.526000	38.1	Off	L1	19.5	17.9	56.0
3.662000	34.8	Off	L1	19.6	21.2	56.0
5.950000	38.7	Off	L1	19.7	21.3	60.0

Final Result : Average

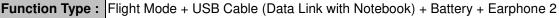
Frequency (MHz)	Average (dΒμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	
0.150000	42.4	Off	L1	19.6	13.6	56.0	
0.190000	33.7	Off	L1	19.6	20.3	54.0	
0.238000	29.3	Off	L1	19.6	22.9	52.2	
0.286000	24.4	Off	L1	19.6	26.2	50.6	
0.526000	28.8	Off	L1	19.5	17.2	46.0	
3.662000	27.3	Off	L1	19.6	18.7	46.0	
5.950000	32.0	Off	L1	19.7	18.0	50.0	

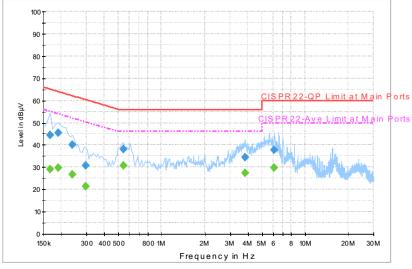
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Test Mode :Mode 2Temperature :24~25°CTest Engineer :Kai-Chun ChuRelative Humidity :49~50%Test Voltage :120Vac / 60HzPhase :Neutral





Final Result: Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.166000	44.3	Off	N	19.5	20.9	65.2
0.190000	45.3	Off	N	19.5	18.7	64.0
0.238000	40.2	Off	N	19.5	22.0	62.2
0.294000	30.7	Off	N	19.5	29.7	60.4
0.542000	38.3	Off	N	19.5	17.7	56.0
3.814000	34.4	Off	N	19.6	21.6	56.0
6.062000	37.9	Off	N	19.7	22.1	60.0

Final Result : Average

Frequency (MHz)	Average (dΒμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.166000	29.0	Off	N	19.5	26.2	55.2
0.190000	29.8	Off	N	19.5	24.2	54.0
0.238000	26.9	Off	N	19.5	25.3	52.2
0.294000	21.5	Off	N	19.5	28.9	50.4
0.542000	30.8	Off	N	19.5	15.2	46.0
3.814000	27.5	Off	N	19.6	18.5	46.0
6.062000	29.9	Off	N	19.7	20.1	50.0

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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 $(dB\mu V/m) = 20 \log Emission level (\mu V/m)$
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level.

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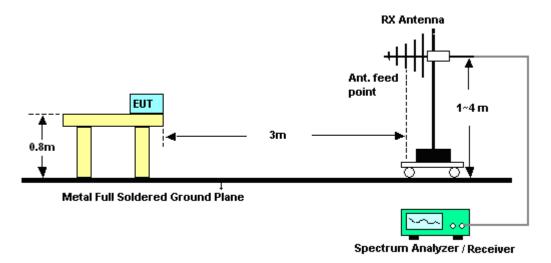
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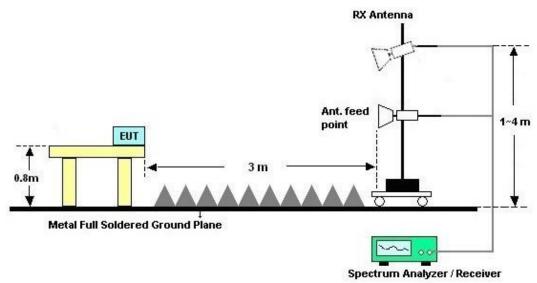
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3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions from 1GHz to 18GHz

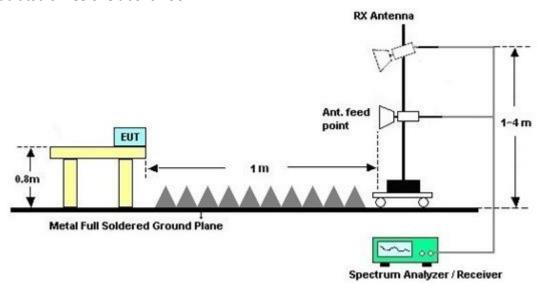


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For radiated emissions above 18GHz



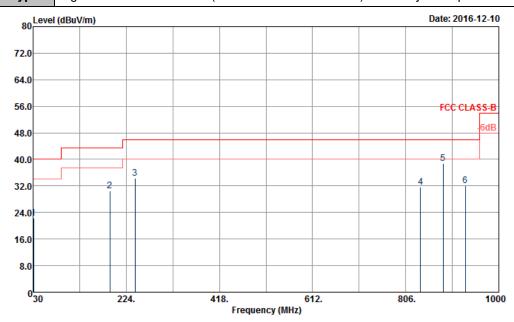
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3.2.5. Test Result of Radiated Emission

Test Mode :	Mode 1	Temperature :	24~26°C
Test Engineer :	Donny Tang	Relative Humidity :	58~60%
Test Distance :	3m	Polarization :	Horizontal

Function Type: |Flight Mode + USB Cable (Data Link with Notebook) + Battery + Earphone 1



Site : 03CH06-HY

Condition : FCC CLASS-B 3m LF_ANT_2725 HORIZONTAL

 Project
 : 6N2204-01

 Power
 : From System

 Memo
 : Mode 1

 : NB to SD

				Limit						1/Pos	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor			Remark
		dD: M/m		dBuV/m				dB		deg	
	PHIZ	ubuv/III	ub	ubuv/III	ubuv	ub/III	ub	ub	cm	ueg	
1	31.35	22.26	-17.74	40.00	28.39	23.77	1.90	31.80			Peak
2	190.11	30.56	-12.94	43.50	45.64	14.68	1.96	31.72			Peak
3	242.76	34.26	-11.74	46.00	46.21	17.59	2.17	31.71			Peak
4	836.90	31.65	-14.35	46.00	30.76	29.35	3.32	31.78			Peak
5	883.80	38.88	-7.12	46.00	37.85	29.26	3.36	31.59	100	171	Peak
6	930.00	32.07	-13.93	46.00	29.65	30.48	3.19	31.25			Peak

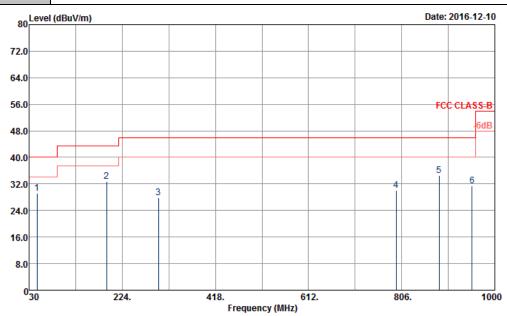
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FCC Test Report No.: FC6N2204-01

Test Mode :	Mode 1	Temperature :	24~26°C
Test Engineer :	Donny Tang	Relative Humidity :	58~60%
Test Distance :	3m	Polarization :	Vertical
			L

Function Type: Flight Mode + USB Cable (Data Link with Notebook) + Battery + Earphone 1



Site : 03CH06-HY

Condition : FCC CLASS-B 3m LF_ANT_2725 VERTICAL

Project : 6N2204-01 Power : From System Memo : Mode 1

: Mode I : NB to SD

	Freq	Level		Limit Line						T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	46.74	29.12	-10.88	40.00	43.43	15.61	1.85	31.77			Peak
2	191.19	32.74	-10.76	43.50	47.79	14.71	1.96	31.72	100	176	Peak
3	299.73	27.81	-18.19	46.00	38.04	19.18	2.28	31.69			Peak
4	794.20	30.05	-15.95	46.00	30.39	28.24	3.36	31.94			Peak
5	883.80	34.65	-11.35	46.00	33.62	29.26	3.36	31.59			Peak
6	952.40	31.48	-14.52	46.00	28.51	30.96	3.05	31.04			Peak

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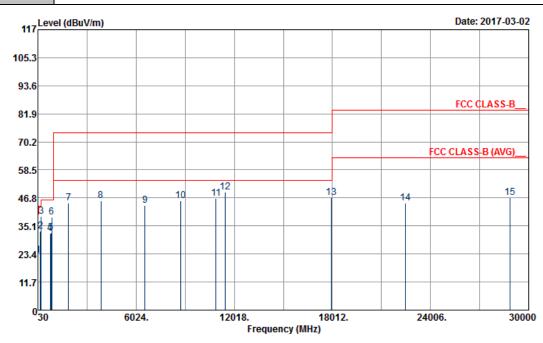
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Report No.: FC6N2204-01

Test Mode : Mo	ode 2	Temperature :	24~26°C
Test Engineer : Do	onny Tang	Relative Humidity :	58~60%
Test Distance : 3m	n	Polarization :	Horizontal

Function Type: Flight Mode + USB Cable (Data Link with Notebook) + Battery + Earphone 2



Site : 03CH06-HY

Condition : FCC CLASS-B__ 1m SHF-EHF HORN HORIZONTAL

Project : 6N2204-01 Power : From System Memo : Mode 2

Distance : below 186Hz:3m

: above 186Hz:1m

	:	above 1	86Hz:1r	n							
			0ver	Limit	Read/	Antenna	Cable	Preamp	A/Pos	T/Pos	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.00	22.73	-17.27	40.00	28.33	24.30	1.90	31.80			Peak
2	192.27	32.86	-10.64	43.50	47.89	14.73	1.96	31.72			Peak
3	244.11	38.98	-7.02	46.00	50.66	17.85	2.18	31.71	100	102	Peak
4	790.70	31.91	-14.09	46.00	32.26	28.23	3.37	31.95			Peak
5	836.90	32.22	-13.78	46.00	31.33	29.35	3.32	31.78			Peak
6	883.80	38.87	-7.13	46.00	37.84	29.26	3.36	31.59			Peak
7	1908.00	44.53	-29.47	74.00	72.36	26.42	6.15	60.40			Peak
8	3886.00	45.51	-28.49	74.00	66.60	30.24	10.11	61.44			Peak
9	6566.00	43.65	-30.35	74.00	55.56	35.68	12.34	59.93			Peak
10	8754.00	45.53	-28.47	74.00	52.30	38.30	14.48	59.55			Peak
11	10912.00	46.52	-27.48	74.00	49.50	41.00	14.94	58.92			Peak
12	11488.00	49.14	-24.86	74.00	48.76	42.45	15.95	58.02	100	195	Peak
13	17946.00	46.85	-27.15	74.00	41.15	47.90	15.09	57.29			Peak
14	22488.00	44.78	-38.76	83.54	36.43	38.57	23.97	54.19			Peak
15	28848.00	46.99	-36.55	83.54	32.23	40.18	28.91	54.33			Peak

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24~26°C Test Mode: Mode 2 Temperature: Test Engineer : Donny Tang **Relative Humidity:** 58~60% Test Distance: Polarization: l3m Vertical Function Type: Flight Mode + USB Cable (Data Link with Notebook) + Battery + Earphone 2 117 Level (dBuV/m) 105.3 93.6 FCC CLASS-B 81.9 70.2 FCC CLASS-B (AVG) 58.5 12¹³ 16 11 46.8 10 35.1 23.4 11.7 0<mark>1⊥</mark> 30 30000 6024. 18012. 24006. 12018. Frequency (MHz) Site : 03CH06-HY Condition : FCC CLASS-B__ 1m SHF-EHF HORN VERTICAL Project : 6N2204-01 Power : From System : Mode 2 Memo Distance : below 186Hz:3m : above 186Hz:1m ReadAntenna Cable Preamp A/Pos T/Pos Over Limit Freq Level Limit Line Level Factor Loss Factor Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cmdeg 1.85 47.01 25.60 -14.40 40.00 40.32 15.20 31.77 --- Peak 1 165.00 29.71 -13.79 43.50 43.47 15.87 2.09 31.72 --- Peak 2 3 196.05 33.62 -9.88 43.50 48.57 14.82 1.95 --- Peak 31.72 4 730.50 37.43 -8.57 46.00 38.12 27.94 3.42 32.05 100 157 Peak 5 829.90 32.45 -13.55 46.00 31.80 --- Peak 29.13 3.33 31.81 ---6 883.80 35.03 -10.97 46.00 34.00 29.26 --- Peak 3.36 31.59 7 1828.00 50.32 -23.68 74.00 78.50 5.99 26.23 60.40 100 199 Peak 1828.00 31.81 -22.19 54.00 59.99 8 26.23 5.99 60.40 100 199 Average 3026.00 48.50 -25.50 74.00 72.48 29.07 --- Peak 9 7.76 60.81 ---10 6622.00 43.79 -30.21 74.00 55.57 35.79 12.40 59.97 --- Peak 8584.00 45.96 -28.04 74.00 52.91 38.43 13.94 59.32 --- Peak 11 12 10890.00 46.45 -27.55 74.00 49.48 41.00 14.94 58.97 ------ Peak

11468.00 48.76 -25.24 74.00 48.53 42.40

83.54

40.48

35.40

48.10

39.08

39.50

17973.00 46.38 -27.62 74.00

26364.00 48.24 -35.30 83.54 35.60

22968.00 45.17 -38.37

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13

14

15

16

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15.88

15.09

24.89

27.29

58.05

57.29

54.20

54.15

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--- Peak

--- Peak

--- Peak

--- Peak

4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Dec. 11, 2016	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 30, 2016	Dec. 11, 2016	Aug. 29, 2017	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Apr. 19, 2016	Dec. 11, 2016	Apr. 18, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 29, 2016	Dec. 11, 2016	Nov. 28, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Dec. 14, 2015	Dec. 11, 2016	Dec. 13, 2016	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 06, 2016	Dec. 11, 2016	Jan. 05, 2017	Conduction (CO05-HY)
Test Software	N/A	EMC32	8.40.0	N/A	N/A	Dec. 11, 2016	N/A	Conduction (CO05-HY)
Bilog Antenna	Schaffner	CBL6111C&N- 6-06	2725&AT-N06 01	30MHz~1GHz	Oct. 15, 2016	Dec. 10, 2016 ~ Mar. 02, 2016	Oct. 14, 2017	Radiation (03CH06-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz ~ 44GHz	Oct. 17, 2016	Dec. 10, 2017~ Mar. 02, 2017	Oct. 16, 2017	Radiation (03CH06-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1156	1GHz~18GHz	Aug. 05, 2016	Dec. 10, 2016 ~ Mar. 02, 2016	Aug. 04, 2017	Radiation (03CH06-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA917058 4	18GHz- 40GHz	Nov. 08, 2016	Dec. 10, 2017~ Mar. 02, 2017	Nov. 07, 2017	Radiation (03CH06-HY)
Preamplifier	SONOMA	310N	186713	9kHz~1GHz	Apr. 19, 2016	Dec. 10, 2016 ~ Mar. 02, 2016	Apr. 18, 2017	Radiation (03CH06-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1850117	1GHz ~ 18GHz	Jun. 22, 2016	Dec. 10, 2016 ~ Mar. 02, 2016	Jun. 21, 2017	Radiation (03CH06-HY)
Preamplifier	MITEQ	JS44-1800400 0-33-8P	1840917	18GHz~40GHz	Jun. 14, 2016	Dec. 10, 2016 ~ Mar. 02, 2016	Jun. 13, 2017	Radiation (03CH06-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY249564 MY249524 MY283184	30MHz~1GHz	Sep. 30, 2016	Dec. 10, 2016 ~ Mar. 02, 2016	Sep. 29, 2017	Radiation (03CH06-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 MY28419/4M Y28654/4	9KHz~40GHz	Sep. 12, 2016	Dec. 10, 2016 ~ Mar. 02, 2016	Sep. 11, 2017	Radiation (03CH06-HY)
Controller	INN-CO	EM1000	060782	Control Turn table & Ant Mast	N/A	Dec. 10, 2016 ~ Mar. 02, 2016	N/A	Radiation (03CH06-HY)
Antenna Mast	MF	MF-7802	MF78020821 2	1m~4m	N/A	Dec. 10, 2016 ~ Mar. 02, 2016	N/A	Radiation (03CH06-HY)
Turn Table	INN-CO	DS2000	420/650/00	0-360 degree	N/A	Dec. 10, 2016 ~ Mar. 02, 2016	N/A	Radiation (03CH06-HY)
Hygrometer	WISEWIND	410	BU5004	N/A	May 03, 2016	Dec. 10, 2016 ~ Mar. 02, 2016	May 02, 2017	Radiation (03CH06-HY)
Test Software	Audix	E3	6.2009-8-24	N/A	N/A	Dec. 10, 2016 ~ Mar. 02, 2016	N/A	Radiation (03CH06-HY)

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5. Uncertainty of Evaluation

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

	4
Measuring Uncertainty for a Level of	2.70
Confidence of 95% (U = 2Uc(y))	2.70

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

	1
Measuring Uncertainty for a Level of	
,	3.90
Confidence of 95% (U = 2Uc(y))	

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

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

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