

FCC RF TEST REPORT

47 CFR FCC Part 15 Subpart C § 15.249

- EQUIPMENT : GSM/WCDMA/LTE Phone + Bluetooth, DTS/UNII a/b/g/n/ac, ANT+, and NFC
- BRAND NAME : Sony
- FCC ID : PY7-PM0912

We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures 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.

La

Reviewed by: Joseph Lin / Supervisor

Innoelsar

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.



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR571623E	Rev. 01	Initial issue of report	Oct. 08, 2015



1. SUMMARY OF THE TEST RESULT

Applied Standard:						
Part	FCC Rule	Description of Test	Result	Under Limit		
3.1	15.207	AC Power Line Conducted	Complian	22.50 dB at		
3.1	15.207	Emissions	Complies	23.502MHz		
3.2 2.1049		20dB & 99% Occupied Bandwidth	Complies	-		
2.2	3.3 15.249(a)	Field Strength of Fundamental	Complies	18.27 dB at		
3.3		Emissions		2441.000MHz		
2.2	15 040(a)(d)	Redicted Sourious Emissions	Complian	13.30 dB at		
3.3	15.249(a)(d)	Radiated Spurious Emissions	Complies	30.810MHz		
3.4 15.203 A		Antenna Requirements	Complies	-		

Remark: The FCC ID: PY7-PM0910 and FCC ID: PY7-PM0912 is similar device, in this report all the test result are referred to PY7-PM0910, Sporton Report No: FR571620E.

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

Measuring Uncertainty for a Level of	2.26
Confidence of 95% (U = 2Uc(y))	2.20

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

Measuring Uncertainty for a Level of	
Confidence of 95% (U = 2Uc(y))	4.8



2. GENERAL INFORMATION

2.1 Applicant

Sony Mobile Communications Inc.

Nya Vattentornet, 22188 Lund, Sweden

2.2 Manufacturer

Sony Mobile Communications Inc.

1-8-15 Konan, Minato-ku, Tokyo, 108-0075, Japan

2.3 Product Details

For more detailed features description, please refer to the manufacturer's specifications or user's manual.

Items	Description
Modulation	GFSK
Channel Bandwidth (99%)	1.026MHz
Max. Field Strength (Peak)	95.73dBµV/m
Max. Field Strength (Average)	69.35dBµV/m
ANT+ Channel Number	78
ANT+ Frequency Range	2403-2480MHz

EUT Information List				
IMEI	HW Version	SW Version	S/N	Performed Test Item
004402541724518		32.0.B.0.233	CB5A27RL7B	RF conducted measurement
004402541720599	004402541720599 A 3		CB5A27R4B7	Radiated Spurious Emission
004402541724070			CB5A27R49U	Conducted Emission



Accessory List				
	Model No. : UCH20			
	Type No. : AC-0061-US			
AC Adapter	S/N :			
	5815W22500089 (for Radiated Spurious Emission)			
	5815W22500112 (for Conducted Emission)			
Formhono	Model No. : MDR-NC750			
Earphone	Type No. : AG-0020			
	Model No. : UCB11			
	Type No. : AI-0120			
USB Cable	S/N :			
	1015W02400014C (for Radiated Spurious Emission)			
	1522A7370000074 (for Conducted Emission)			

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.

2.4 Table for Test Modes

Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode
AC Power Line Conducted Emissions	СТХ
Field Strength of Fundamental Emissions	СТХ
Bandwidth	СТХ
Radiated Emissions	СТХ

Note:

- 1. CTX=continuously transmitting.
- 2. The programmed RF utility, "CMD" installed in the notebook to make the EUT get into the engineering modes to continuously transmit.



2.5 Table for Testing Locations

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, Taiwan, R.O.C.		
Test Sile Location	TEL: +886-3-327-3456		
	FAX: +886-3-328-4978		
Test Site No	Sporton Site No.		
Test Site No.	TH05-HY	03CH07-HY	

Note: The test site complies with ANSI C63.4 2009 requirement.

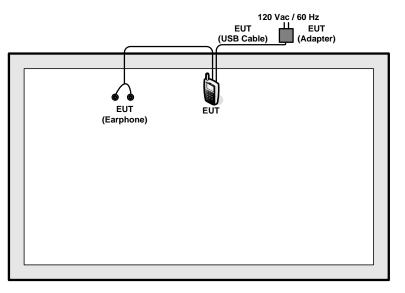
2.6 Table for Supporting Units

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

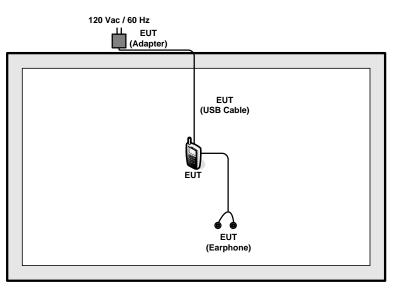


2.7 Test Configurations

<AC Conducted Emissions>



<Radiated Spurious Emissions>





3. TEST RESULT

3.1 AC Power Line Conducted Emissions Measurement

3.1.1 Limit

For a Low-power Radio-frequency device which is designed to be connected to the 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 below limits table.

Frequency (MHz)	QP Limit (dBµV)	AV Limit (dBµV)
0.15~0.5	66~56	56~46
0.5~5	56	46
5~30	60	50

3.1.2 Measuring Instruments

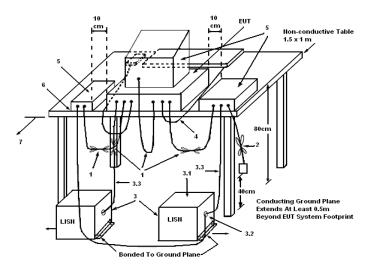
Please refer to section 4 of equipment list in this report.

3.1.3 Test Procedures

- 1. Configure the EUT according to ANSI C63.4. The EUT or host of EUT has to be placed 0.4 meter far from the conducting wall of the shielding room and at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT or host of EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connected to the other LISNs. The LISN should provide 50uH/50ohms coupling impedance.
- 4. The frequency range from 150 kHz to 30 MHz was searched.
- 5. Set the test-receiver system to Peak Detect Function and Specified Bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.
- 6. The measurement has to be done between each power line and ground at the power terminal.



3.1.4 Test Setup Layout



LEGEND:

(1) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

(2) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

(3) EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω .

LISN can be placed on top of, or immediately beneath, reference ground plane.

(3.1) All other equipment powered from additional LISN(s).

(3.2) Multiple outlet strip can be used for multiple power cords of non-EUT equipment.

(3.3) LISN at least 80 cm from nearest part of EUT chassis.

(4) Cables of hand-operated devices, such as keyboards, mice, etc., shall be placed as for normal use.

(5) Non-EUT components of EUT system being tested.

(6) Rear of EUT, including peripherals, shall all be aligned and flush with rear of tabletop.

(7) Rear of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.

3.1.5 Test Deviation

There is no deviation with the original standard.

3.1.6 EUT Operation during Test

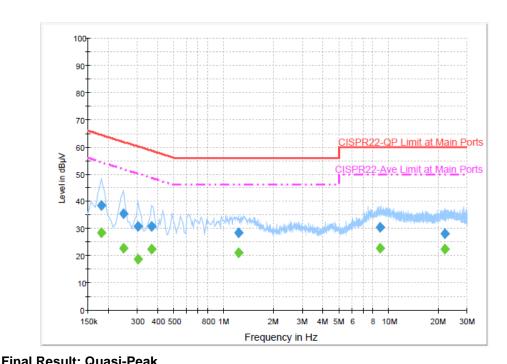
The EUT was placed on the test table and programmed in transmitting function.



Test Date	Aug. 28, 2015	Test Site No.	CO05-HY						
Temperature	23~25°C	Humidity	58~61%						
Test Engineer	Derreck Chen								
Mode	ANT+ Tx (2441 MHz) + Earphone + USB Cable (Charging from Adapter)								

3.1.7 Results of AC Power Line Conducted Emissions Measurement

Line



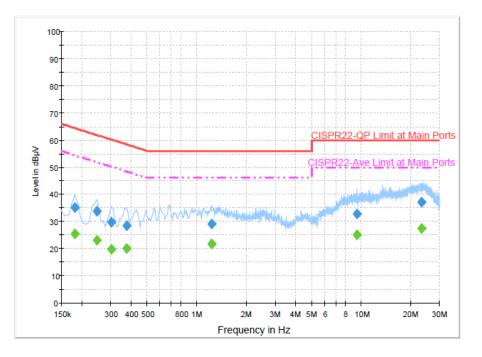
Final Resul	t: Quasi-Peak	<u> </u>		-		
Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.182000	38.6	Off	L1	19.5	25.8	64.4
0.246000	35.4	Off	L1	19.5	26.5	61.9
0.302000	30.7	Off	L1	19.5	29.5	60.2
0.366000	30.6	Off	L1	19.5	28.0	58.6
1.230000	28.4	Off	L1	19.6	27.6	56.0
8.918000	30.5	Off	L1	19.9	29.5	60.0
22.094000	28.2	Off	L1	20.0	31.8	60.0
Final Resul [®]	t: Average					
Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.182000	28.5	Off	L1	19.5	25.9	54.4
0.246000	22.7	Off	L1	19.5	29.2	51.9
0.302000	18.8	Off	L1	19.5	31.4	50.2
0.366000	22.4	Off	L1	19.5	26.2	48.6
1.230000	21.2	Off	L1	19.6	24.8	46.0
8.918000	22.7	Off	L1	19.9	27.3	50.0
22.094000	22.4	Off	L1	20.0	27.6	50.0

SPORTON INTERNATIONAL INC. TEL : 886-3-327-3456 FAX : 886-3-328-4978 FCC ID : PY7-PM0912



Test Date	Aug. 28, 2015	Test Site No.	CO05-HY					
Temperature	23~25°C	Humidity	58~61%					
Test Engineer	Derreck Chen							
Mode	ANT+ Tx (2441 MHz) + Earphone + USB Cable (Charging from Adapter)							

Neutral



Final Result: Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.182000	35.1	Off	N	19.5	29.3	64.4
0.246000	33.8	Off	N	19.5	28.1	61.9
0.302000	29.8	Off	Ν	19.5	30.4	60.2
0.374000	28.3	Off	Ν	19.5	30.1	58.4
1.230000	29.2	Off	Ν	19.6	26.8	56.0
9.486000	32.7	Off	Ν	19.8	27.3	60.0
23.502000	37.2	Off	Ν	20.1	22.8	60.0

Final Result: Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.182000	25.3	Off	Ν	19.5	29.1	54.4
0.246000	23.1	Off	N	19.5	28.8	51.9
0.302000	19.7	Off	N	19.5	30.5	50.2
0.374000	20.1	Off	Ν	19.5	28.3	48.4
1.230000	21.7	Off	Ν	19.6	24.3	46.0
9.486000	25.0	Off	Ν	19.8	25.0	50.0
23.502000	27.5	Off	Ν	20.1	22.5	50.0



3.2 20dB and & 99% Occupied Bandwidth

3.2.1 Limit

Intentional radiators must be designed to ensure that the 20 dB bandwidth of the emissions in the specific band.

3.2.2 Measuring Instruments

Please refer to section 4 of equipment list in this report.

3.2.3 Test Procedures

- 1. The transmitter output port was connected to the spectrum analyzer.
- 2. Measured the spectrum width with highest power setting.

3.2.4 Test Setup Layout



Spectrum Analyzer

3.2.5 Test Deviation

There is no deviation with the original standard.

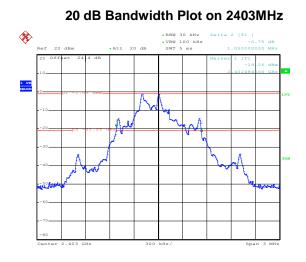
3.2.6 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

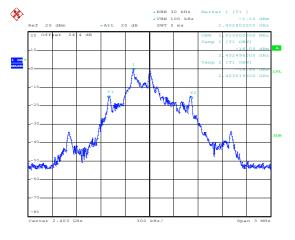


3.2.7 Test Result of 20dB Spectrum Bandwidth

Final Test Date	Aug. 23, 2015 ~ Sep. 03, 2015	Test	t Site No. TH05-HY		
Temperature	22~25℃	Hum	nidity	51~55%	
Test Engineer	Luffy Lin				
Frequency	20dB BW	99% OBW			
Frequency	(MHz)			(MHz)	
2403MHz	1.050			1.023	
2441MHz	1.056			1.023	
2480MHz	1.056			1.026	



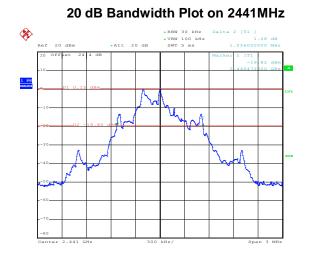
99% Bandwidth Plot on 2403MHz

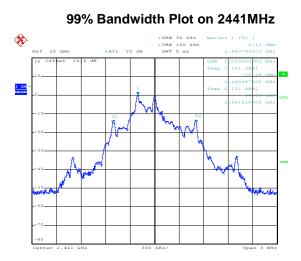


Date: 2.SEP.2015 01:03:39

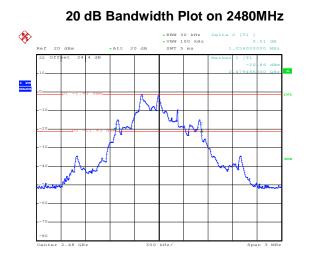
Date: 2.SEP.2015 01:05:02



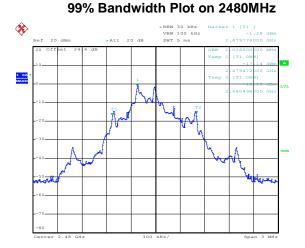




Date: 2.SEP.2015 01:09:56



Date: 2.SEP.2015 01:11:23



Date: 2.SEP.2015 01:16:25

Date: 3.SEP.2015 11:19:25



3.3 Field Strength of Fundamental Emissions and Radiated Spurious Emissions

3.3.1 Limit

The field strength measured at 3 meters shall not exceed the limits in the following table:

Fundamental	Field Strength(millivolts/m)					
Frequencies(MHz)	Fundamental	Harmonics				
902~928	50	0.5				
2400~2483.5	50	0.5				
5725~5875	50	0.5				

Note: The limits shown in the above table are based on measurements using an average detector, except for the fundamental emission in the frequency band 902-928 MHz, which is based on measurements using a CISPR quasi-peak detector.

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general field strength limits listed in 15.209 as below, whichever is less stringent.

Frequency	Field Strength	Measurement Distance				
(MHz)	(microvolts/meter)	(meters)				
0.009 - 0.490	2400/F(kHz)	300				
0.490 – 1.705	24000/F(kHz)	30				
1.705 – 30.0	30	30				
30 – 88	100	3				
88 – 216	150	3				
216 - 960	200	3				
Above 960	500	3				



3.3.2 Measuring Instruments

Please refer to section 4 of equipment list in this report.

3.3.3 Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively 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. 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. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
- 4. Set to the maximum power setting and enable the EUT transmit continuously.

Remark:

- 1. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level
- 2. For average measurement: use duty cycle correction factor method per 15.35(c).

Duty cycle = On time/100 milliseconds

On time = N1*L1+N2*L2+...+Nn-1*LNn-1+Nn*Ln

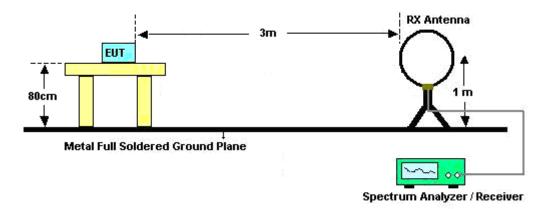
Where N1 is number of type 1 pulses, L1 is length of type 1 pulses, etc.

Average Emission Level = Peak Emission Level + 20*log(Duty cycle)

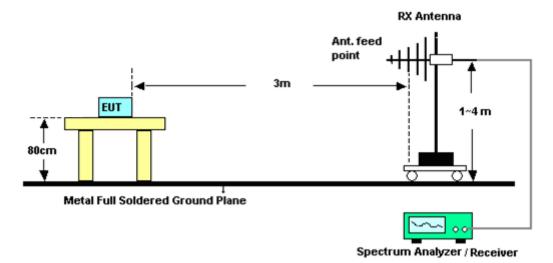


3.3.4 Test Setup Layout

For radiated emissions below 30MHz

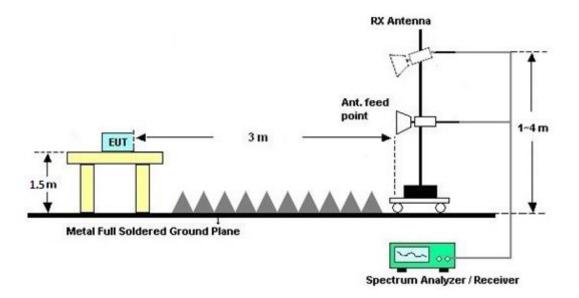


For radiated emissions from 30MHz to 1GHz





For radiated emissions above 1GHz



3.3.5 Test Deviation

There is no deviation with the original standard.

3.3.6 EUT Operation during Test

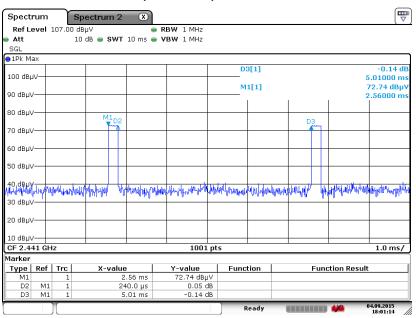
The EUT was programmed to be in continuously transmitting mode.

3.3.7 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.



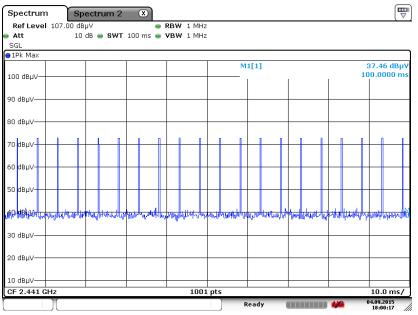
3.3.8 Duty cycle correction factor for average measurement



On time (One Pulse) Plot on 2441MHz

Date: 4.SEP.2015 18:01:14





Date: 4.SEP.2015 18:00:17

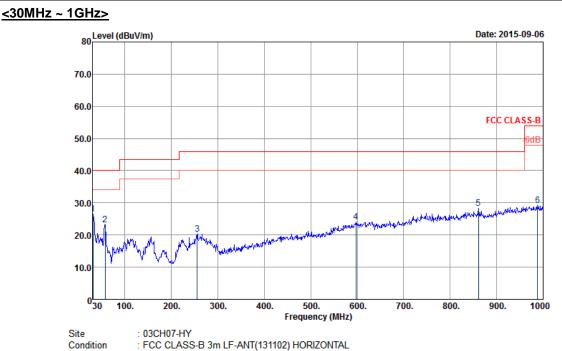
Note:

- 1. Worst case Duty cycle = on time/100 milliseconds = $10 \times 0.24 / 100 = 4.50 \%$
- 2. Worst case Duty cycle correction factor = 20*log(Duty cycle) = -26.38 dB



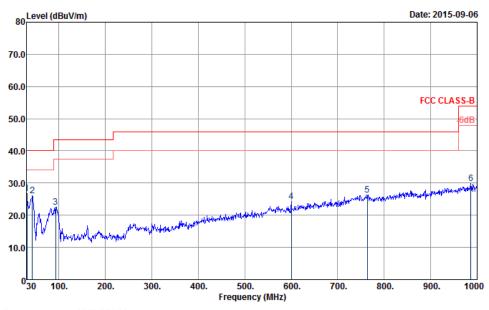
3.3.9 Test Result of Field Strength of Fundamental Emissions and Spurious Emissions

Test Date	Sep. 04, 2015 ~ Sep. 07, 2015	Test Engineer	Wei Chen and Ken Wu
Temperature	21~23℃	Humidity	41~42%



	Freq	Level		Limit Line					A/Pos	T/Pos	Remark
	MHz	$\overline{dBuV/\mathfrak{m}}$	dB	dBuV/m	dBu∀	dB/m	dB	dB	Cm	deg	
1 2 3 4 5 6	57.00 255.18 597.50 860.70	20.29 23.99	-16.76 -25.71 -22.01 -17.71	40.00 40.00 46.00 46.00 46.00 54.00	37.87 46.47 35.13 30.95 30.81 29.51	18.28 6.24 13.20 19.57 23.20 24.84	1.77 1.77 2.96 4.08 4.66 5.03	31.42 31.24 31.00 30.61 30.38 30.25	170 		Peak Peak Peak Peak Peak Peak





 Site
 : 03CH07-HY

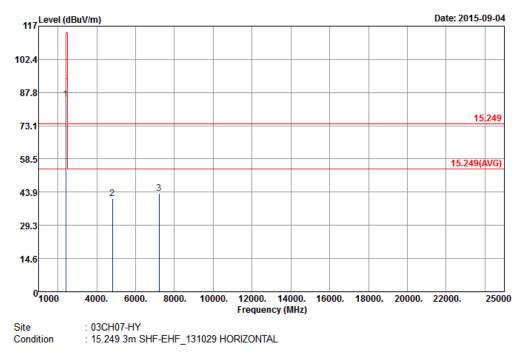
 Condition
 : FCC CLASS-B 3m LF-ANT(131102) VERTICAL

	Freq	Level	Over Limit	Limit Line				Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	Cm	deg	
1 2 3 4 5	30.81 42.69 93.18 600.30 763.40	26.11 22.57 24.19		43.50 46.00	38.11 43.64 42.61 31.11 30.09	18.28 11.90 9.00 19.60 22.10	1.77 1.77 2.06 4.08 4.48	31.46 31.20 31.10 30.60 30.37	100 		Peak Peak Peak Peak Peak
6	986.70	29.77	-24.23	54.00	30.12	24.87	5.03	30.25			Peak



<u><1GHz ~ 25GHz></u>

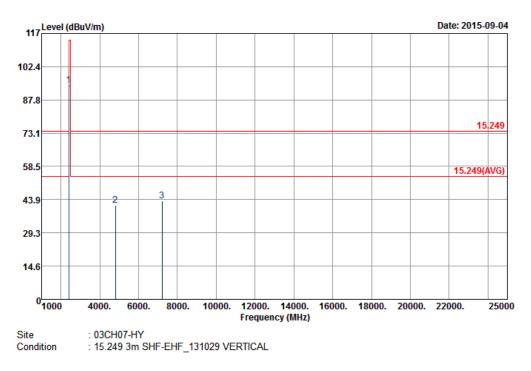
<u>2403MHz</u>



	Freq	Level				antenna Factor			A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	$\overline{dBuV/m}$	dBuV	dB/m	dB	dB	Cm	deg	
1 2 3	2403.00 4806.00 7206.00	40.93	-33.07	74.00	55.24	34.25	11.11	59.67	366 100 100	Ō	Peak Peak Peak

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2403	84.79	-29.21	114	79.14	32.2	7.75	34.3	366	324	Peak
2403	58.41	-35.59	94	-	-	-	-	-	-	Average



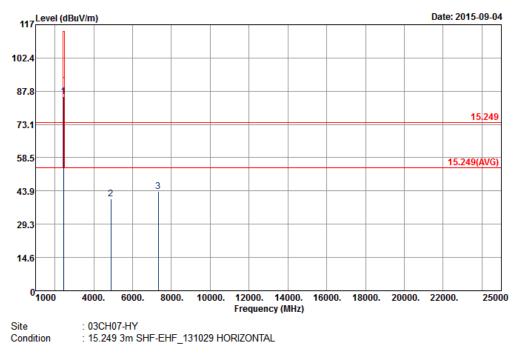


	Freq	Level				antenna Factor			A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	Cm	deg	
1 2 3	2403.00 4806.00 7206.00	41.30	-32.70	74.00	55.61	34.25		59.67	286 100 100	Ō	Peak Peak Peak

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2403	94.34	-19.66	114	88.69	32.2	7.75	34.3	286	0	Peak
2403	67.96	-26.04	94	-	-	-	-	-	-	Average



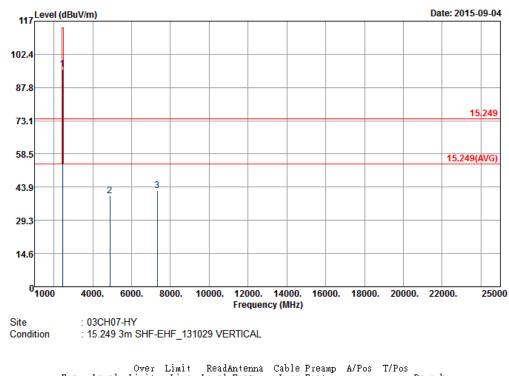
<u>2441MHz</u>



	Freq	Level		Limit Line				Preamp Factor	A/Pos	T/Pos	Remark
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	Cm	deg	
1 2 3	2441.00 4882.00 7323.00	40.37	-33.63	74.00	54.43	34.30	11.21	59.57	102 100 100	Ō	Peak Peak Peak

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2441	85.52	-28.48	114	79.84	32.24	7.83	34.39	102	331	Peak
2441	59.14	-34.86	94	-	-	-	-	-	-	Average





	Freq	Level		Limit Line					A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	Cm	deg	
1 2 3	2441.00 4882.00 7323.00	40.10	-33,90	74.00	54.16	34.30	11.21	59.57	311 100 100	Ō	Peak Peak Peak

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2441	95.73	-18.27	114	90.05	32.24	7.83	34.39	311	360	Peak
2441	69.35	-24.65	94	-	-	-	-	-	-	Average

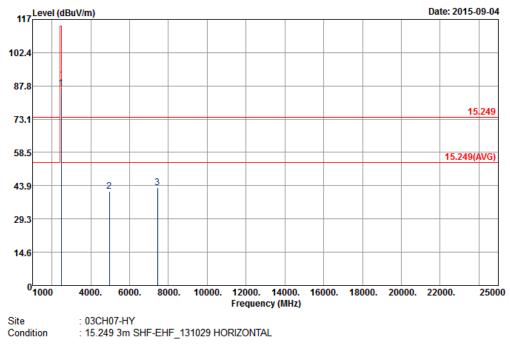
Note: For average measurement: use duty cycle correction factor method per 15.35(c).

Average measurement was not performed if peak level went lower than the average limit.

Test result of emissions which are 20 dB lower than the limit is not reported per15.31.



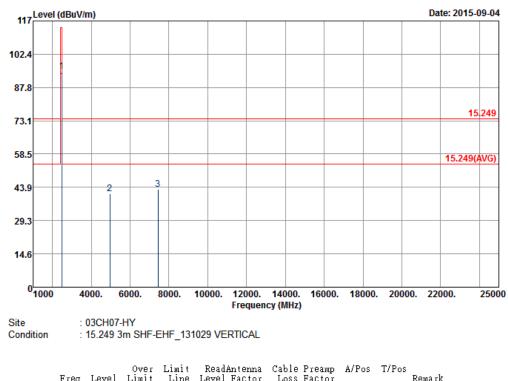
2480MHz



	Freq	Level		Limit Line				Preamp Factor	A/Pos	T/Pos	Remark
	MHz	<u>dBuV/m</u>	dB	dBuV/m	dBuV	dB/m	dB	dB	Cm	deg	
1 2 3	2480.00 4962.00 7440.00	41.42	-32.58	74.00	55.18	34.37	11.32	59.45	140 100 100	Ō	Peak Peak Peak

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2480	86.78	-27.22	114	81.02	32.28	7.91	34.43	140	331	Peak
2480	60.4	-33.6	94	-	-	-	-	-	-	Average





	Freq	Level		Limit Line					A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	Cm	deg	
1 2 3	2480.00 4960.00 7440.00	41.17	-32.83	74.00	54,93	34.37	11.32	59.45	338 100 100	Ō	Peak Peak Peak

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2480	94.7	-19.3	114	88.94	32.28	7.91	34.43	338	10	Peak
2480	68.32	-25.68	94	-	-	-	-	-	-	Average

Note: For average measurement: use duty cycle correction factor method per 15.35(c).

Average measurement was not performed if peak level went lower than the average limit.

Test result of emissions which are 20 dB lower than the limit is not reported per15.31.



3.4 Antenna Requirements

3.4.1 Limit

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited.

3.4.2 Antenna Connector Construction

Enbedded in Antenna.



4. LIST OF MEASURING EQUIPMENT

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Agilent	E4416A	GB41292344	300MHz~40GHz	Jan. 14, 2015	Aug. 23, 2015~ Sep. 03, 2015	Jan. 13, 2016	Conducted (TH05-HY)
Power Sensor	Agilent	E9327A	US40441548	300MHz~40GHz	Jan. 14, 2015	Aug. 23, 2015~ Sep. 03, 2015	Jan. 13, 2016	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz-40GHz	Jun. 18, 2015	Aug. 23, 2015~ Sep. 03, 2015	Jun. 17, 2016	Conducted (TH05-HY)
Hygrometer	Testo	608-H1	34897199	N/A	May 04, 2015	Aug. 23, 2015~ Sep. 03, 2015	May 03, 2016	Conducted (TH05-HY)
RF Cable	HARBOUR INDUSTRIES	LL142	Infinet CA3601-3601 -DLL	0.1MHz~40GHz	Mar. 06, 2015	Aug. 23, 2015~ Sep. 03, 2015	Mar. 05, 2016	Conducted (TH05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCS 30	100356	9kHz – 2.75GHz	Dec. 01, 2014	Aug. 28, 2015	Nov. 30, 2015	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Apr. 20, 2015	Aug. 28, 2015	Apr. 19, 2016	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 02, 2014	Aug. 28, 2015	Dec. 01, 2015	Conduction (CO05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Aug. 28, 2015	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 07, 2015	Aug. 28, 2015	Jan. 06, 2016	Conduction (CO05-HY)
Test Software	N/A	EMC32	8.40.0	N/A	N/A	Aug. 28, 2015	N/A	Conduction (CO05-HY)
Bilog Antenna	Schaffner	CBL6111C	2726	30MHz ~ 1GHz	Sep. 27, 2014	Sep. 04, 2015~ Sep. 07, 2015	Sep. 26, 2015	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Aug. 21, 2015	Sep. 04, 2015~ Sep. 07, 2015	Aug. 20, 2016	Radiation (03CH07-HY)
Loop Antenna	TESEQ	HLA 6120	31244	9kHZ~30MHz	Feb. 02, 2015	Sep. 04, 2015~ Sep. 07, 2015	Feb. 01, 2016	Radiation (03CH07-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 25, 2015	Sep. 04, 2015~ Sep. 07, 2015	Aug. 24, 2016	Radiation (03CH07-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA917058 4	18GHz- 40GHz	Nov. 03, 2014	Sep. 04, 2015~ Sep. 07, 2015	Nov. 02, 2015	Radiation (03CH07-HY)
Hygrometer	Testo	608-H1	34897197	N/A	May 04, 2015	Sep. 04, 2015~ Sep. 07, 2015	May 03, 2016	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-001 01800-30-10 P	1590075	1GHz ~ 18GHz	Apr. 20, 2015	Sep. 04, 2015~ Sep. 07, 2015	Apr. 19, 2016	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz-1000MH z	Mar. 12, 2015	Sep. 04, 2015~ Sep. 07, 2015	Mar. 11, 2016	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~ 26.5GHz	Oct. 21, 2014	Sep. 04, 2015~ Sep. 07, 2015	Oct. 20, 2015	Radiation (03CH07-HY)
Signal Analyzer	Rohde & Schwarz	FSV 30	101749	10Hz~30GHz	Mar. 10, 2015	Sep. 04, 2015~ Sep. 07, 2015	Mar. 09, 2016	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY84209521	1GHz~40GHz	Dec. 04, 2014	Sep. 04, 2015~ Sep. 07, 2015	Dec. 03, 2015	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY84209521	9KHz~1GHz	Dec. 04, 2014	Sep. 04, 2015~ Sep. 07, 2015	Dec. 03, 2015	Radiation (03CH07-HY)
Controller	ChainTek	Chaintek 3000	N/A	Control Turn table	N/A	Sep. 04, 2015~ Sep. 07, 2015	N/A	Radiation (03CH07-HY)
Controller	Max-Full	MF7802	MF78020836 8	Control Ant Mast	N/A	Sep. 04, 2015~ Sep. 07, 2015	N/A	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Sep. 04, 2015~ Sep. 07, 2015	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 degree	N/A	Sep. 04, 2015~ Sep. 07, 2015	N/A	Radiation (03CH07-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Preamplifier	MITEQ	JS44-18004 000-33-8P	1840917	18GHz ~ 40GHz	Jun. 02, 2015	Sep. 04, 2015~ Sep. 07, 2015	Jun. 01, 2016	Radiation (03CH07-HY)
Filter	Wainwright	WLKS1200- 8SS	SN3	1.2G Low Pass	Oct. 01, 2014	Sep. 04, 2015~ Sep. 07, 2015	Sep. 30, 2015	Radiation (03CH07-HY)
Filter	Microwave	H3G018G1	SN477220	3.0G High Pass	Oct. 01, 2014	Sep. 04, 2015~ Sep. 07, 2015	Sep. 30, 2015	Radiation (03CH07-HY)
Test Software	Audix	E3	6.2009-8-24 (sporton)	N/A	N/A	Sep. 04, 2015~ Sep. 07, 2015	N/A	Radiation (03CH07-HY)

Note: Test equipment calibration is traceable to the procedure of ISO17025.