

FCC RF TEST REPORT

47 CFR FCC Part 15 Subpart C § 15.249

Equipment	: PDA Phone
BRAND NAME	: Sony
TYPE NAME	: PM-0780-BV
FCC ID	: PY7-PM0780

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.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager



SPORTON INTERNATIONAL INC.

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SPORTON INTERNATIONAL INC. TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: PY7-PM0780 Page Number : 1 of 30 Report Issued Date : Mar. 02, 2015 Report Version : Rev. 01 Report Template No.: BU5-FR15CANT Version 1.0



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR4D0327E	Rev. 01	Initial issue of report	Mar. 02, 2015



1. SUMMARY OF THE TEST RESULT

Applied Standard:				
Part	FCC Rule	Description of Test	Result	Under Limit
2.1	15 207	AC Power Line Conducted	Complian	15.50 dB at
3.1 15.207		Emissions	Complies	3.446MHz
3.2	2.1049	20dB & 99% Occupied Bandwidth	Complies	-
	Field Strength of Fundamental	Qamaliaa	23.00 dB at	
3.3 15.249(a)		Emissions	Complies	2479.860MHz
2.2	1E 040(a)(d)	Dedicted Sourious Emissions	Complian	25.50 dB at
3.3 15.249(a)(d)		Radiated Spurious Emissions	Complies	643.000MHz
3.4	15.203	Antenna Requirements	Complies	-

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	4.90
Confidence of 95% (U = 2Uc(y))	4.90



2. GENERAL INFORMATION

2.1 Applicant

Sony Mobile Communications Inc

Nya Vattentornet 22188 Lund/Sweden

2.2 Manufacturer

Sony Mobile Communications Inc

Nya Vattentornet 22188 Lund/Sweden

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%)	1.008MHz
Max. Field Strength (Peak)	91.00dBµV/m
Max. Field Strength (Average)	55.86dBµV/m
ANT+ Channel Number	79
ANT+ Frequency Range	2402-2480MHz

EUT Information List				
IMEI	HW Version	SW Version	S/N	Performed Test Item
IMEI : 004402453307021			YT910ZRX3D	RF conducted measurement
IMEI : 004402453307021	AP	26.1.A.0.79	YT910ZRX3D	Radiated Spurious Emission
IMEI : 004402453306957			YT910ZRWBG	Conducted Emission



Accessory List		
	Model No. : EP800	
	Type No. : CAA-0002016-US	
AC Adapter	S/N :	
	3112W49108087 (For Conducted Emission)	
	3112W49107935 (For Radiated Spurious Emission)	
Battery	Model No. : Bellis	
	Model No. : MH410c	
	Type No. : AG-1100	
Earphone	S/N :	
	12431A1B0011582 (For Conducted Emission)	
	12431A1E00118A8 (For Radiated Spurious Emission)	
	Model No. : EC450	
	Type No. : AI-0700	
USB Cable	S/N :	
	142412D8250297C (For Conducted Emission)	
	113912D0171324C (For Radiated Spurious 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, "QRCT Tool" 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 Techn	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 Site Location	TEL: +886-3-327-3456		
	FAX: +886-3-328-4978		
Test Site No	Sporton Site No.		
Test Site No.	TH02-HY CO05-HY		

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

Test Site	SPORTON INTERNATIONAL INC.	
	No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Guishan Township, Taoyuan	
Test Site Location	County, Taiwan (R.O.C.)	
	TEL: +886-3-327-0855	
Sporton Site No.		
Test Site No.	03CH11-HY	

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

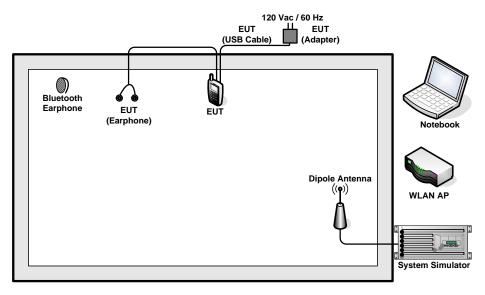
2.6 Table for Supporting Units

ltem	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	WLAN AP	D-Link	DIR-865L	KA2IR865LA1	N/A	Unshielded, 1.8 m
3.	Bluetooth Earphone	Sony Ericsson	SBH20	PY7-RD0010	Unshielded, 0.75m	N/A
4.	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
5.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

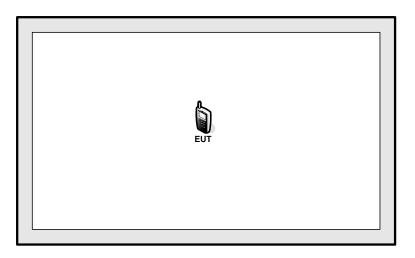


2.7 Test Configurations

<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

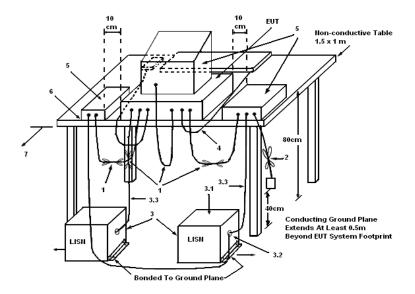
Please refer to section 4 of equipment list in this report.

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 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

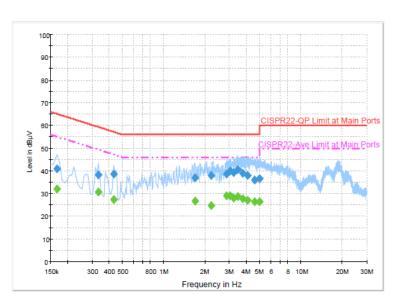
The EUT was placed on the test table and programmed in transmitting function.



3.1.7	Results of AC Power	Line Conducted	Emissions Measurement

Test Date	Dec. 16, 2014	Test Site No.	CO05-HY	
Temperature	20~22°C	Humidity	46~48%	
Test Engineer	est Engineer Kai-Chun Chu Configuration		ANT+ Transmitting Mode	
GSM850 Idle + Bluetooth Link + WLAN Link + ANT+ Tx + Earphor				
Mode	Cable (Charging from Adapter)			

Line

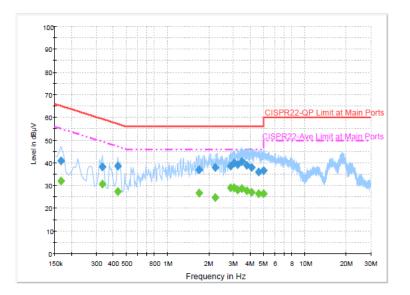


Final Result: Quasi-Peak							
Frequency	Quasi-Peak	Filter	Line	Corr.	Margin	Limit	
(MHz)	(dBµV)			(dB)	(dB)	(dBµV)	
0.166000	41.0	Off	L1	19.4	24.2	65.2	
0.334000	38.3	Off	L1	19.4	21.1	59.4	
0.430000	38.8	Off	L1	19.5	18.5	57.3	
1.678000	37.1	Off	L1	19.6	18.9	56.0	
2.214000	37.8	Off	L1	19.4	18.2	56.0	
2.854000	38.7	Off	L1	19.6	17.3	56.0	
3.038000	40.0	Off	L1	19.6	16.0	56.0	
3.230000	39.2	Off	L1	19.6	16.8	56.0	
3.446000	40.5	Off	L1	19.6	15.5	56.0	
3.758000	38.8	Off	L1	19.7	17.2	56.0	
4.054000	38.0	Off	L1	19.7	18.0	56.0	
4.598000	36.0	Off	L1	19.8	20.0	56.0	
4.950000	36.7	Off	L1	19.7	19.3	56.0	



Test Date	Dec. 16, 2014	Test Site No.	CO05-HY	
Temperature	20~22°C	Humidity	46~48%	
Test Engineer	Kai-Chun Chu	Configuration	ANT+ Transmitting Mode	
Mode	GSM850 Idle + Bluetooth Link + WLAN Link + ANT+ Tx + Earphone + USB			
Mode	Cable (Charging from Adapter)			

Line



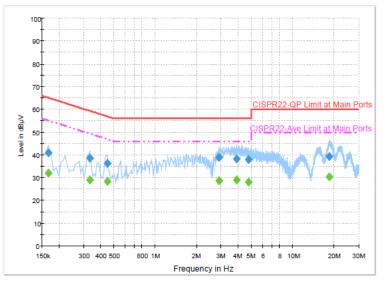
Final Result: Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.166000	31.9	Off	L1	19.4	23.3	55.2
0.334000	30.6	Off	L1	19.4	18.8	49.4
0.430000	27.2	Off	L1	19.5	20.1	47.3
1.678000	26.7	Off	L1	19.6	19.3	46.0
2.214000	24.9	Off	L1	19.4	21.1	46.0
2.854000	29.0	Off	L1	19.6	17.0	46.0
3.038000	29.2	Off	L1	19.6	16.8	46.0
3.230000	27.9	Off	L1	19.6	18.1	46.0
3.446000	28.6	Off	L1	19.6	17.4	46.0
3.758000	27.8	Off	L1	19.7	18.2	46.0
4.054000	27.1	Off	L1	19.7	18.9	46.0
4.598000	26.5	Off	L1	19.8	19.5	46.0
4.950000	26.6	Off	L1	19.7	19.4	46.0



Test Date	Dec. 16, 2014	Test Site No.	CO05-HY	
Temperature	20~22°C	Humidity	46~48%	
Test Engineer	Kai-Chun Chu	Configuration	ANT+ Transmitting Mode	
Mode	GSM850 Idle + Bluetooth Link + WLAN Link + ANT+ Tx + Earphone + USB			
Mode	Cable (Charging from Adapter)			

Neutral



Final Result: Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.166000	40.8	Off	Ν	19.4	24.4	65.2
0.334000	38.5	Off	Ν	19.4	20.9	59.4
0.446000	36.4	Off	Ν	19.5	20.5	56.9
2.910000	38.9	Off	Ν	19.6	17.1	56.0
3.862000	38.3	Off	Ν	19.7	17.7	56.0
4.758000	37.8	Off	Ν	19.7	18.2	56.0
18.286000	39.2	Off	Ν	20.0	20.8	60.0

Final Result: Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.166000	31.9	Off	N	19.4	23.3	55.2
0.334000	28.9	Off	N	19.4	20.5	49.4
0.446000	28.3	Off	N	19.5	18.6	46.9
2.910000	28.7	Off	Ν	19.6	17.3	46.0
3.862000	29.0	Off	N	19.7	17.0	46.0
4.758000	28.2	Off	N	19.7	17.8	46.0
18.286000	30.5	Off	Ν	20.0	19.5	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.



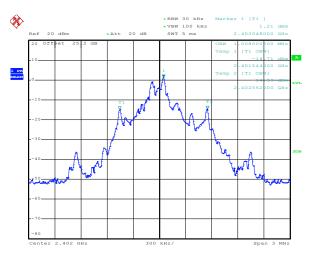
3.2.7 Test Result of 20dB Spectrum Bandwidth

Final Test Date	Nov. 05, 2014	Test Sit	e No.	TH02-HY
Temperature	22~25°C	Humidity		51~55%
Test Engineer	Osolemio Chang			
_	20dB BW		99% OBW	
Frequency	(MHz)			(MHz)
2402MHz	1.036			1.008
2441MHz	1.040		1.008	
2480MHz	1.036		1.008	

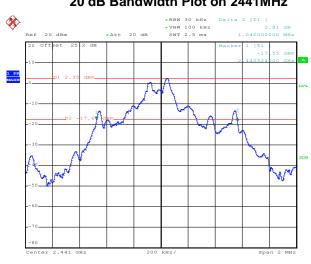
20 dB Bandwidth Plot on 2402MHz



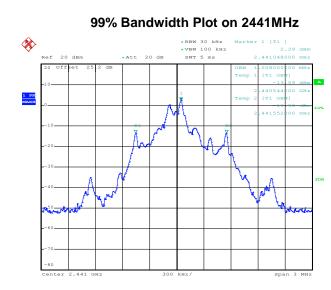
99% Bandwidth Plot on 2402MHz



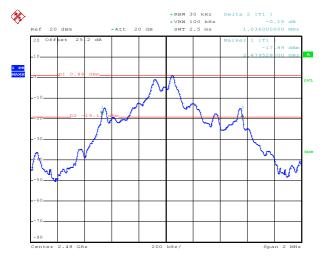




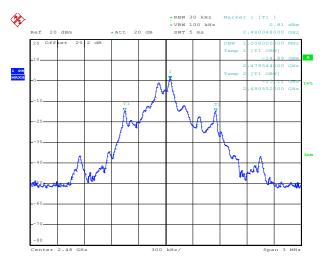
20 dB Bandwidth Plot on 2441MHz



20 dB Bandwidth Plot on 2480MHz



99% Bandwidth Plot on 2480MHz





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

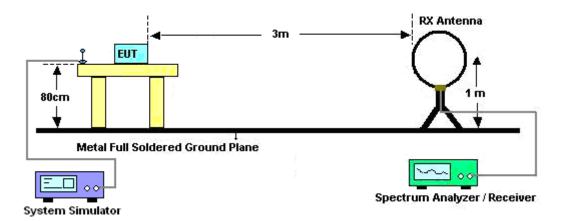
Where N1 is number of type 1 pulses, L1 is length of type 1 pulses, etc.

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

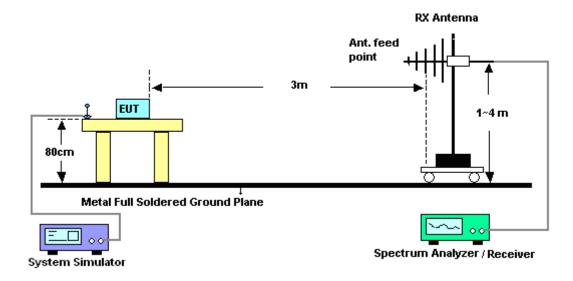


3.3.4 Test Setup Layout

For radiated emissions below 30MHz

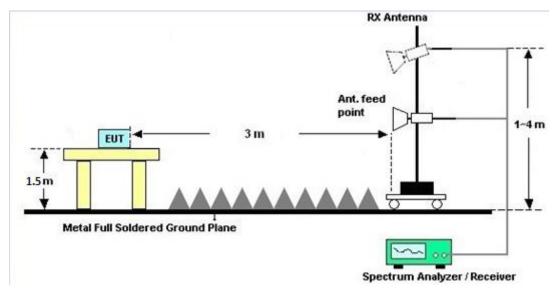


For radiated emissions from 30MHz to 1GHz





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

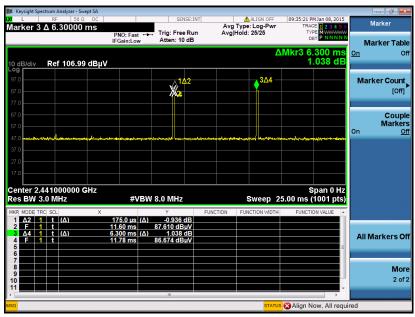
The EUT was programmed to be in continuously transmitting mode.

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.

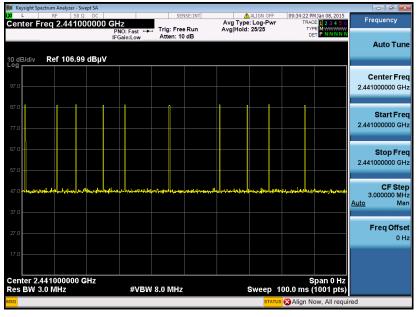


3.3.8 Duty cycle correction factor for average measurement



On time (One Pulse) Plot on 2441MHz

On time (Count Pulses) Plot on 2441MHz



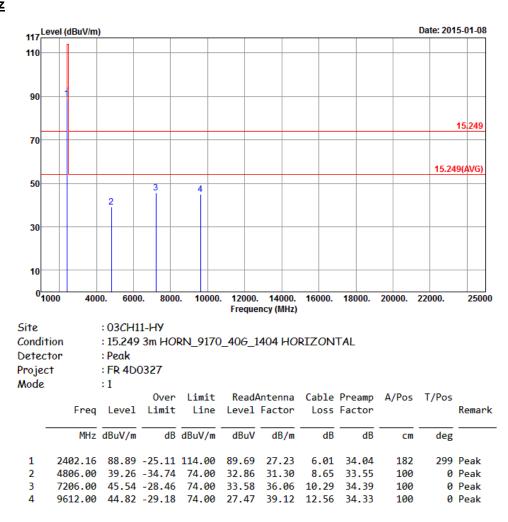
Note:

- 1. Worst case Duty cycle = on time/100 milliseconds = 10 * 0.175 / 100 = 1.75 %
- 2. Worst case Duty cycle correction factor = 20*log(Duty cycle) = -35.14 dB



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

Test Date	Jan. 08, 2015	Test Engineer	Stan Hsieh
Temperature	22~24°C	Humidity	46~48%



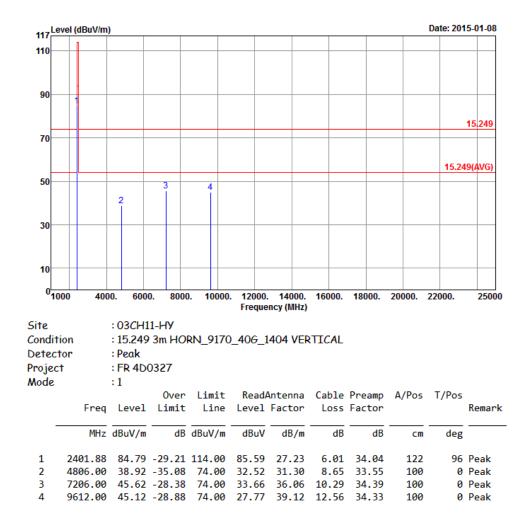
Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2402.16	88.89	-25.11	114	89.69	27.23	6.01	34.04	182	299	Peak
2402.16	53.75	-40.25	94	-	-	-	-	-	-	Average

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.





Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Pos	Table Pos (deg)	Remark
2401.88	84.79	-29.21	114	85.59	27.23	6.01	34.04	122	96	Peak
2401.88	49.65	-44.35	94	-	-	-	-	-	-	Average

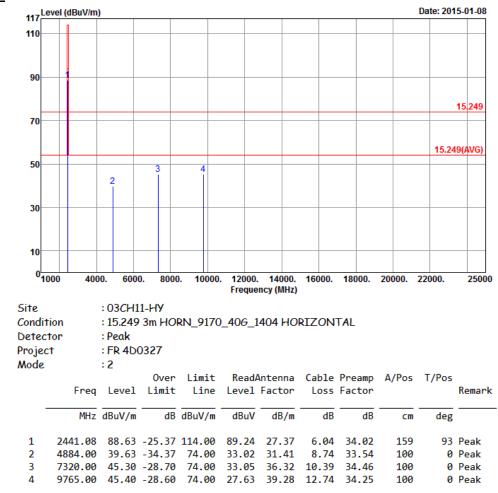
Note: For average measurement: use duty cycle correction factor method per 15.35(c).

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.

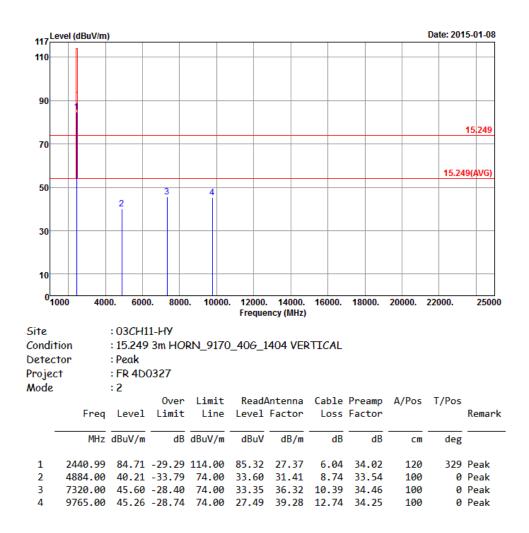


<u>2441MHz</u>



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
2441.08	88.63	-25.37	114	89.24	27.37	6.04	34.02	159	93	Peak
2441.08	53.49	-40.51	94	-	-	-	-	-	-	Average

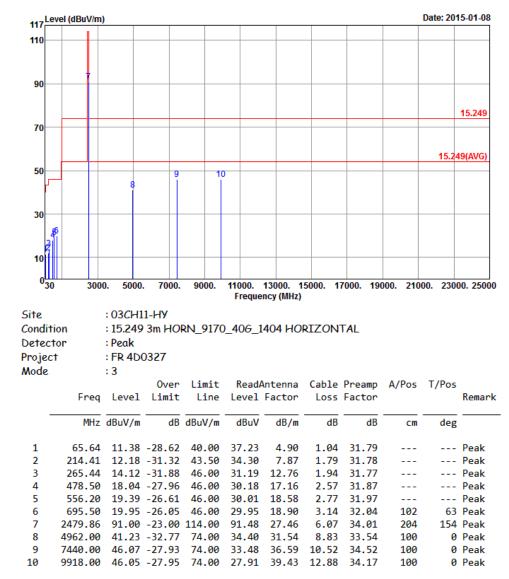




Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2440.99	84.71	-29.29	114	85.32	27.37	6.04	34.02	120	329	Peak
2440.99	49.57	-44.43	94	-	-	-	-	-	-	Average

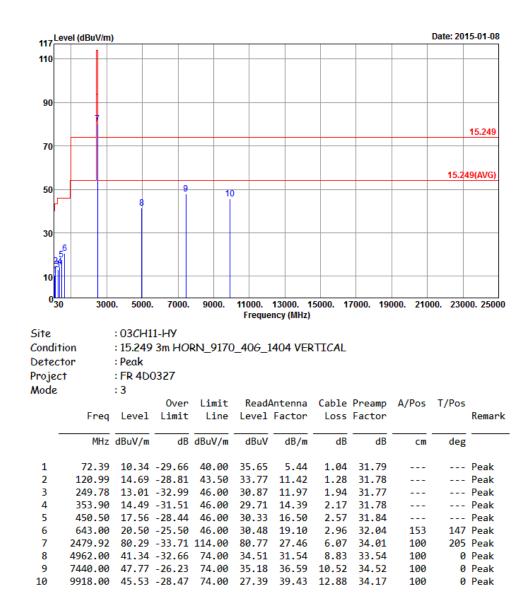


2480MHz



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
2479.86	91	-23	114	91.48	27.46	6.07	34.01	204	154	Peak
2479.86	55.86	-38.14	94	-	-	-	-	-	-	Average





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
2479.92	80.29	-33.71	114	80.77	27.46	6.07	34.01	100	205	Peak
2479.92	45.15	-48.85	94	-	-	-	-	-	-	Average



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. 28, 2014	Dec. 30, 2014~ Dec. 31, 2014	Jan. 27, 2015	Conducted (TH02-HY)
Power Sensor	Agilent	E9327A	US40441548	300MHz~40GHz	Jan. 28, 2014	Dec. 30, 2014~ Dec. 31, 2014	Jan. 27, 2015	Conducted (TH02-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz~40GHz	Jun. 09, 2014	Dec. 30, 2014~ Dec. 31, 2014	Jun. 08, 2015	Conducted (TH02-HY)
Hygrometer	Testo	608-H1	34897199	N/A	May. 06, 2014	Dec. 30, 2014~ Dec. 31, 2014	May. 05, 2015	Conducted (TH02-HY)
RF cable	WOKEN	S05	S05-130708- 038	N/A	Jan. 22, 2014	Dec. 30, 2014~ Dec. 31, 2014	Jan. 21, 2015	Conducted (TH02-HY)
EMI Test Receiver	Keysight	N9038A	MY54130085	20Hz ~ 26.5GHz	Nov. 05, 2014	Jan. 08, 2015	Nov. 04, 2015	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz ~ 44GHZ	Sep. 24, 2014	Jan. 08, 2015	Sep. 23, 2015	Radiation (03CH11-HY)
Loop Antenna	R&S	HFH2-Z2	100315	9 kHz~30 MHz	Jul. 28, 2014	Jan. 08, 2015	Jul. 27, 2015	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D	35414	30MHz~1GHz	Oct. 24, 2014	Jan. 08, 2015	Oct. 23, 2015	Radiation (03CH11-HY)
Double Ridged Guide Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Oct. 03, 2014	Jan. 08, 2015	Oct. 02, 2015	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA917058 4	18GHz- 40GHz	Nov. 03, 2014	Jan. 08, 2015	Nov. 02, 2015	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	0.1MHz~1000M Hz	Nov. 24, 2014	Jan. 08, 2015	Nov. 23, 2015	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 20, 2014	Jan. 08, 2015	Nov. 19, 2015	Radiation (03CH11-HY)
Preamplifier	MITEQ	AMF-7D-001 01800-30-10 P	1902247	1GHz~18GHz	Nov. 25, 2014	Jan. 08, 2015	Nov. 24, 2015	Radiation (03CH11-HY)
Preamplifier	MITEQ	JS44-18004 000-33-8P	1840917	18GHz ~ 40GHz	Jun. 09, 2014	Jan. 08, 2015	Jun. 08, 2015	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500 -B	N/A	N/A	N/A	Jan. 08, 2015	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0-360 degree	N/A	Jan. 08, 2015	N/A	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	1m-4m	N/A	Jan. 08, 2015	N/A	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY84209521	9KHz~1GHz	Dec. 04, 2014	Jan. 08, 2015	Dec. 03, 2015	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY44614PE MY249674M Y249714	30MHz~1GHz	Nov. 06, 2014	Jan. 08, 2015	Nov. 05, 2015	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY44614PE MY249674M Y249714	1GHz~25GHz	Nov. 06, 2014	Jan. 08, 2015	Nov. 05, 2015	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY44614PE MY249674 MY249714	25GHz~40GHz	Nov. 06, 2014	Jan. 08, 2015	Nov. 05, 2015	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTN-303B	TP140325	N/A	Nov. 19, 2014	Jan. 08, 2015	Nov. 18, 2015	Radiation (03CH11-HY)
Notch Filter	Wainwright	WRCGV240 0/2483-2390 /2493-35/10 SS	SN4	2.4G	Oct. 01, 2014	Jan. 08, 2015	Sep. 30, 2015	Radiation (03CH11-HY)

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Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Filter	Wainwright	WLKS1200- 8SS	SN3	1.2G Low Pass	Oct. 01, 2014	Jan. 08, 2015	Sep. 30, 2015	Radiation (03CH11-HY)
Filter	Microwave	H3G018G1	SN477220	3.0G High Pass	Oct. 01, 2014	Jan. 08, 2015	Sep. 30, 2015	Radiation (03CH11-HY)
Test Software	Audix	E3	Version 6.2009-8-24	N/A	N/A	Jan. 08, 2015	N/A	Radiation (03CH11-HY)
EMI Test Receiver	Rohde & Schwarz	ESCS 30	100356	9kHz – 2.75GHz	Dec. 01, 2014	Dec. 16, 2014	Nov. 30, 2015	Conduction (CO05-HY)
Two-LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 02, 2014	Dec. 16, 2014	Dec. 01, 2015	Conduction (CO05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Dec. 16, 2014	N/A	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Apr. 23, 2014	Dec. 16, 2014	Apr. 22, 2015	Conduction (CO05-HY)
LF Cable	Shuner	RG-402	N/A	N/A	Oct. 07, 2014	Dec. 16, 2014	Oct. 06, 2015	Conduction (CO05-HY)
Test Software	N/A	EMC32	8.40.0	N/A	N/A	Dec. 16, 2014	N/A	Conduction (CO05-HY)

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