

RF TEST REPORT for Intentional Radiator No. 150501200SHA-002

Applicant : Shanghai Xiaoyi Technology Co., Ltd.

6F, Building E, No. 2889, Jinke Road, Shanghai, China

Manufacturer : Shanghai Xiaoyi Technology Co., Ltd.

6F, Building E, No. 2889, Jinke Road, Shanghai, China

Product Name : Yi Action Camera

Type/Model : YDXJ01XY

TEST RESULT : PASS

SUMMARY

The equipment complies with the requirements according to the following standard(s):

47CFR Part 15 (2014): Radio Frequency Devices

RSS-247 Issue 1(May 2015): Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices

RSS-Gen Issue 4 (November 2014): General Requirements for Compliance of Radio Apparatus

ANSI C63.10 (2013): American National Standard for Testing Unlicensed Wireless Devices

Date of issue: Aug 21, 2015

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TTRF15Ea/effective date: Dec. 15th, 2013



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1. Test Summary

This report applies to tested sample only. This report shall not be reproduced in part without written approval of Intertek Testing Service Shanghai Limited.

Test Items	FCC Reference	IC Reference	Result
Minimum 6dB Bandwidth	15.247(a)(2)	RSS-247 Issue 1 Clause 5	Pass
Output power	15.247(b)	RSS-247 Issue 1 Clause 5	Pass
Power spectrum density	15.247(e)	RSS-247 Issue 1 Clause 5	Pass
Emissions in non-restricted frequency bands	15.247(d)	RSS-247 Issue 1 Clause 5	Pass
Emissions in restricted frequency bands	15.247(d) & 15.205 & 15.209	RSS-247 Issue 1 Clause 5	Pass
Power line conducted emission	15.207	RSS-Gen Issue 4 Clause 8.8	Pass



2. General Information

2.1 Applicant Information

Applicant : Shanghai Xiaoyi Technology Co., Ltd.

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Manufacturer : Shanghai Xiaoyi Technology Co., Ltd.

6F, Building E, No. 2889, Jinke Road, Shanghai, China

2.2 Identification of the EUT and Technical specification

Equipment : Yi Action Camera

Type/model : YDXJ01XY

Brand name : YI

Operation Frequency : 2402-2480MHz

EUT Modes of : BT4.0 BLE

Modulation

Type of Modulation : GFSK

Transfer Rate : 1Mbps

Power Class : Class II

Channel Number : 40 (0-39)

Antenna : 0.16dBi Internal antenna

Description of EUT : The EUT is an action camera which supports WIFI and BT

function, and it has only one model, we tested it and listed the

BLE result in this report.

Port identification : Mini USB Port *1

Mini HDMI Port *1

Rating : Input:5V DC 1A or Li-on Battery 3.7V 1010mA

Declared : $0^{\circ}\text{C} \sim 45^{\circ}\text{C}$

Temperature range

Category of EUT : Class B

EUT type : Table top Floor standing

Sample received date : 2015.06.15

Date of test : $2015.06.15 \sim 2015.08.21$



2.3 Channel List

Frequency Band (MHz)				2402 ~ 2480			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

2.4 Test software and Power Setting

The test setting software is offered by the manufactory. The pre-scan for the conducted power with all rates in each modulation and bands was used, and the worst case was found and used in all test cases.

Test software and Power Setting parameter				
Test Software	SecureCRT			
Working Mode	BLE			
Test Channel	2402MHz 2440MHz 2480MHz			
Power Setting	0x08	0x08	0x08	



3. Test Specification

3.1 Instrument list

Equipment	Туре	Manu.	Internal no.	Cal. Date	Due date
Test Receiver	ESCS 30	R&S	EC 2107	2014-10-20	2015-10-19
Test Receiver	ESIB 26	R&S	EC 3045	2014-10-19	2015-10-18
Test Receiver	ESCI 7	R&S	EC4501	2014-12-24	2015-12-23
Spectrum Analyzer	N9030	Agilent	EC4890	2014-10-20	2015-10-19
A.M.N.	ESH2-Z5	R&S	EC 3119	2015-1-8	2016-1-7
Bilog Antenna	CBL 6112D	TESEQ	EC 4206	2015-4-26	2016-4-25
Horn antenna	HF 906	R&S	EC 3049	2015-4-26	2016-4-25
Horn antenna	3117	ETS	EC 4792-1	2015-4-16	2016-4-15
Horn antenna	HAP18-26W		EC 4792-3	2015-4-8	2016-4-7
Pre-amplifier	Pre-amp 18	R&S	EC 3222	2015-4-11	2016-4-10
Pre-amplifier	Tpa0118-40	R&S	EC 4792-2	2015-4-10	2016-4-9
Semi-anechoic chamber	-	Albatross project	EC 3048	2015-5-10	2016-5-9
Therom-Hygrograph	ZJ1-2A	S.M.I.F.	EC 3323	2015-4-13	2016-4-12
Pressure meter	YM3	Shanghai Mengde	EC 3320	2015-6-12	2016-6-11
Shielded room	-	Zhongyu	EC 2838	2015-1-11	2016-1-9
High Pass Filter	WHKX 1.0/15G- 10SS	Wainwright	EC4297-1	2015-1-7	2016-1-6
High Pass Filter	WHKX 2.8/18G- 12SS	Wainwright	EC4297-2	2015-1-7	2016-1-6
High Pass Filter	WHKX 7.0/1.8G- 8SS	Wainwright	EC4297-3	2015-1-7	2016-1-6
Band Reject Filter	WRCGV 2400/2483- 2390/2493- 35/10SS	Wainwright	EC4297-4	2015-1-7	2016-1-6
Power sensor / Power meter	N1911A/N1921A	Agilent	EC4318	2015-4-8	2016-4-7

3.2 Test Standard

47CFR Part 15 (2014): Radio Frequency Devices

RSS-247 Issue 1(May 2015): Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices

RSS-Gen Issue 4 (November 2014): General Requirements for Compliance of Radio Apparatus

ANSI C63.10 (2013): American National Standard for Testing Unlicensed Wireless Devices



3.3 Mode of operation during the test / Test peripherals used

While testing transmitting mode of EUT, the internal modulation and continuously transmission was applied.

Radiated test mode:

Mode 1: EUT transmitted signal with BT antenna;

Conducted test mode:

Mode 2: EUT transmitted signal from BT RF port connected to SPA directly;

Test peripherals used:

Item No	Description Band and Model		S/No
1	Laptop computer	HP ProBook 6470b	NA
2	Adaptor	YI, A8-501000	NA

Note: The accessories are used for configuration only and not used during test.

TTRF15Ea/effective date: Dec. 15th, 2013



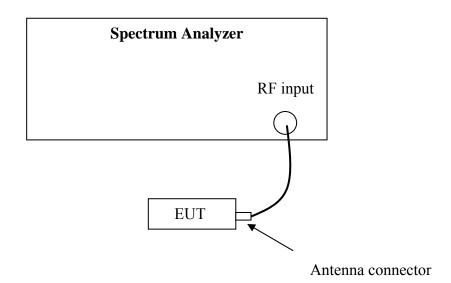
4. Minimum 6dB Bandwidth

Test result: PASS

4.1 Limit

For systems using digital modulation techniques that may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz bands, the minimum 6 dB bandwidth shall be at least 500 kHz.

4.2 Test Configuration



4.3 Test Procedure and test setup

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) \geq 3 \times RBW.
- c) Detector = Peak.
- d) Trace mode = \max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

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4.4 Test Protocol

Temperature: 22°C Relative Humidity: 53%

Modulation	Frequency (MHz)	Minimum 6dB Bandwidth (KHz)	Limits (KHz)
	2402	727.4	> 500
BLE	2440	728.7	> 500
	2480	729.3	> 500

Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)
	2402	1.0710
BLE	2440	1.0720
	2480	1.0706

Channel L





Channel M



Channel H





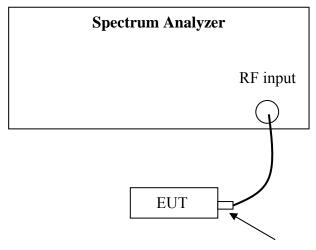
5. Maximum Conducted Output power

Test result: Pass

5.1 Test limit

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725 MHz band: 1 watt
For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts
For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt

5.2 Test Configuration



Antenna connector

5.3 Test procedure and test setup

- a) Set the RBW \geq DTS bandwidth.
- b) Set VBW \geq 3 \times RBW.
- c) Set span $\geq 3 \times RBW$
- d) Sweep time = auto couple.
- e) Detector = peak.
- f) Trace mode = \max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.



5.4 Test protocol

Temperature: 22 °C Relative Humidity: 53 %

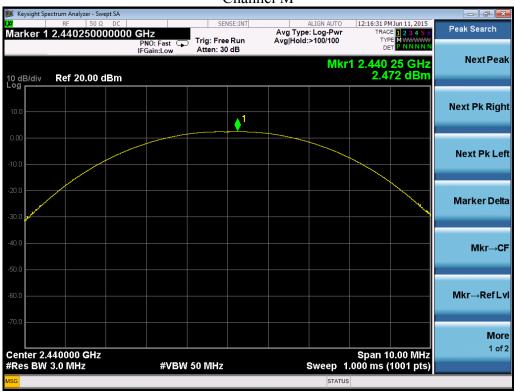
Modulation	Frequency (MHz)	MaxConducted Power (dBm)	Limit (dBm)
	2402	2.367	30
BLE	2440	2.472	30
	2480	1.392	30



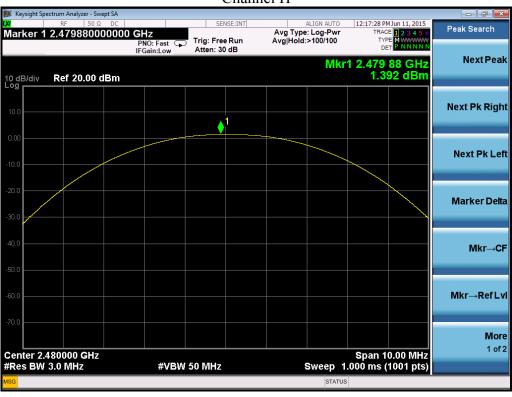




Channel M



Channel H





6. Maximum Power spectrum density

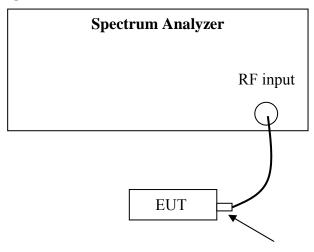
Test result: Pass

6.1 Test limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

If the transmitting antenna of directional gain greater than 6dBi is used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi. If there have a beam forming type, the limit should be the minimum of 8dBm/MHz and 8+ (6 – antenna gain-beam forming gain).

6.2 Test Configuration



Antenna connector

6.3 Test procedure and test setup

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW \geq 3 \times RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

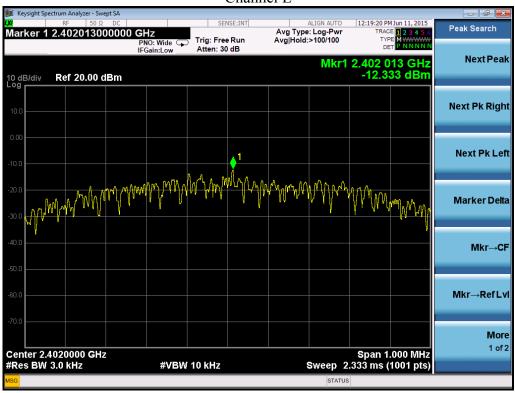


6.4 Test Protocol

Temperature: 22 °C Relative Humidity: 53 %

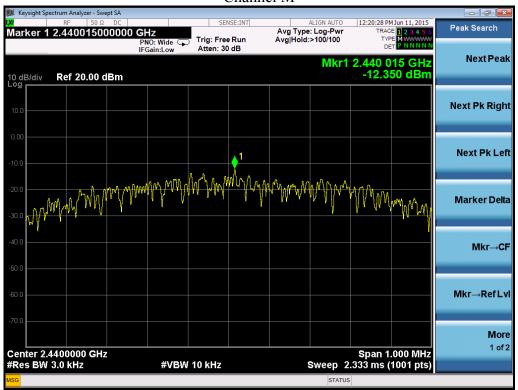
Modulation	Frequency (MHz)	Maximum Power spectrum density (dBm/3KHz)	Limit (dBm/3KHz)
	2402	-12.333	8
BLE	2440	-12.350	8
	2480	-13.445	8

Channel L

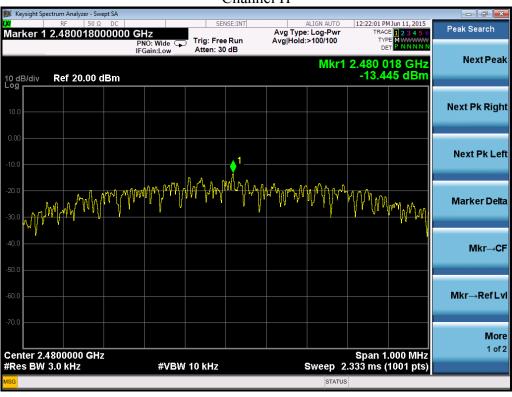




Channel M



Channel H





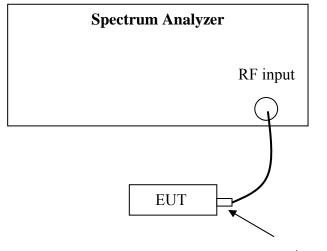
7. Emissions in non-restricted frequency bands

Test result: Pass

7.1 Test limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

7.2 Test Configuration



Antenna connector



7.3 Test procedure and test setup

Reference level measurement

Establish a reference level by using the following procedure:

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set the span to ≥ 1.5 times the *DTS bandwidth*.
- c) Set the RBW = 100 kHz.
- d) Set the VBW \geq 3 x RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum PSD level.

Emission level measurement

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW \geq 3 x RBW.
- d) Detector = peak.
- e) Ensure that the number of measurement points ≥ span/RBW
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level.

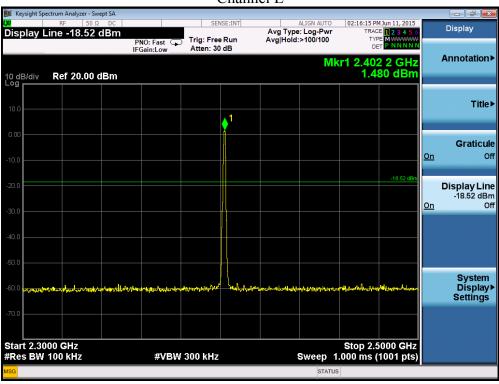
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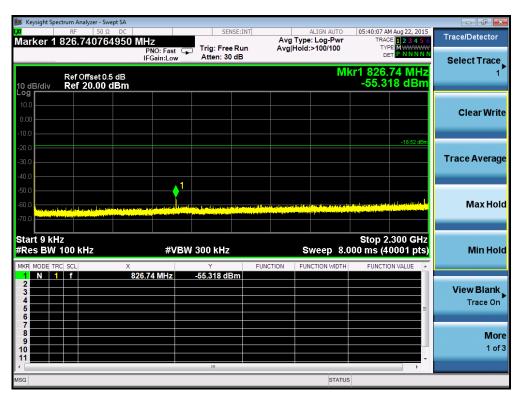


7.4 Test Protocol

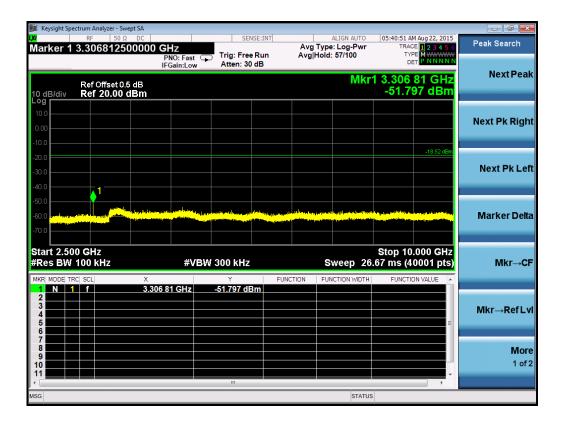
Temperature: 22 °C Relative Humidity: 53 %

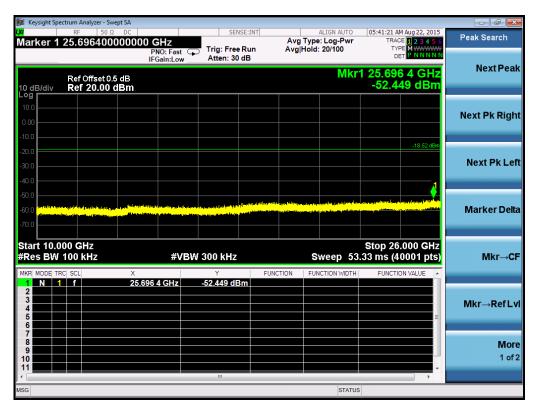
Channel L





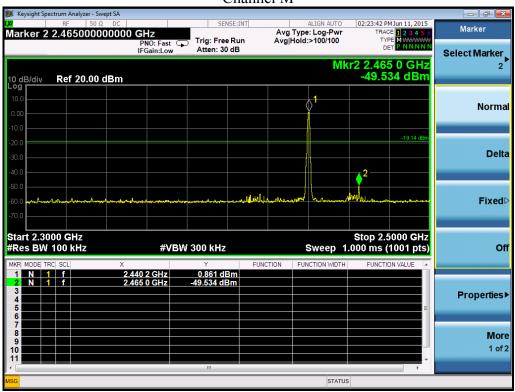


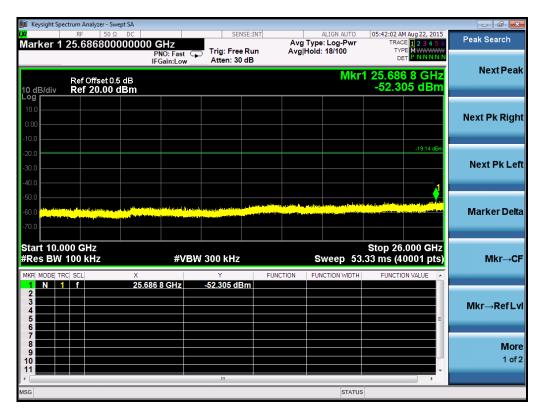




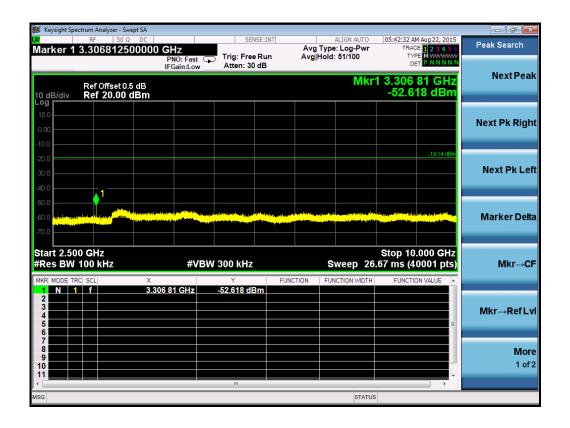


Channel M







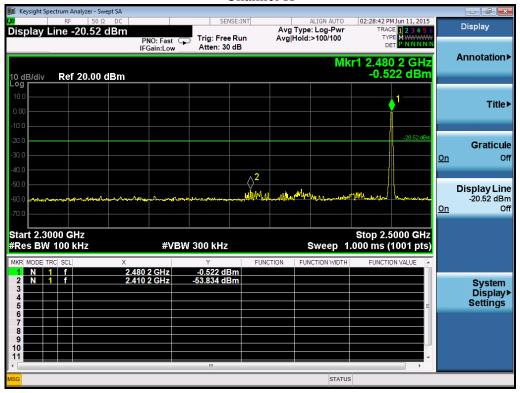






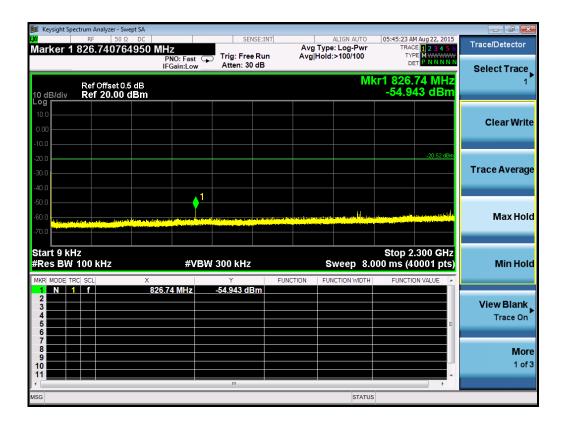


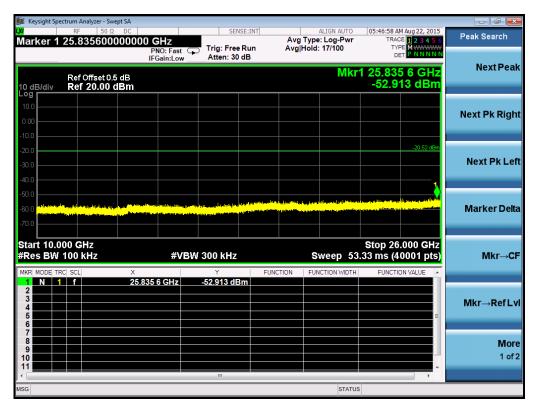
Channel H













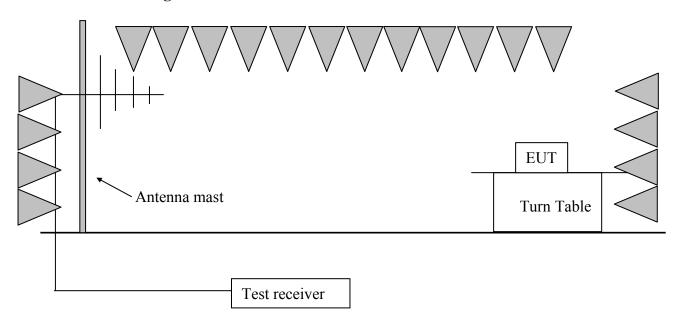
8. Radiated Emissions in restricted frequency bands

Test result: Pass

8.1 Test limit

Frequencies	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
$0.009 \sim 0.490$	2400/F(kHz)	300
$0.490 \sim 1.705$	24000/F(kHz)	30
$1.705 \sim 30.0$	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

8.2 Test Configuration





8.3 Test procedure and test setup

The measurement was applied in a semi-anechoic chamber. While testing for spurious emission higher than 1GHz, if applied, the pre-amplifier would be equipped just at the output terminal of the antenna.

Tabletop devices shall be placed on a nonconducting platform with nominal top surface dimensions 1 m by 1.5 m. For emissions testing at or below 1 GHz, the table height shall be 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m.

The turn table rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna which was mounted on an antenna mast. The antenna moved up and down between from 1 meter to 4 meters to find out the maximum emission level.

The radiated emission was measured using the Spectrum Analyzer with the resolutions bandwidth set as:

```
RBW = 100 kHz, VBW = 300 kHz (30MHz-1GHz)
RBW = 1MHz, VBW = 3MHz (>1GHz for PK);
RBW = 1MHz, VBW = 10Hz (>1GHz for AV);
```

Remark:

- 1. Factor= Antenna Factor + Cable Loss (-Amplifier, is employed)
- 2. Measured level= Original Receiver Reading + Factor
- 3. Margin = limit Measured level
- 4. If the PK measured level is lower than AV limit, the AV test can be elided.

Example:

```
Assuming Antenna Factor = 30.20 dB/m, Cable Loss = 2.00 dB, Gain of Preamplifier = 32.00 dB, Original Receiver Reading = 10 dBuV. Then Factor = 30.20 + 2.00 - 32.00 = 0.20 dB/m; Measured level = 10 dBuV + 0.20 dB/m = 10.20 dBuV/m Assuming limit = 54 dBuV/m, Measured level = 10.20 dBuV/m, then Margin = 54 - 10.20 = 43.80 dBuV/m.
```

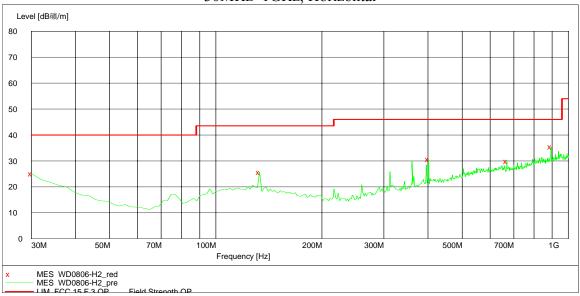


8.4 Test Protocol

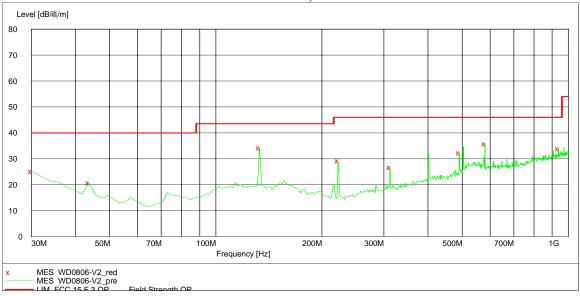
Temperature: 25 °C Relative Humidity: 55 %

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





30MHz~1GHz, Vertical





Test data at 30MHz~1GHz (Channel L):

Polarization	Frequency	Measured level	Limits	Margin	Detector
Folarization	(MHz)	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	Detector
	30.0	25.0	40.0	15.0	PK
	133.0	25.7	43.5	17.8	PK
Н	401.3	30.6	46.0	15.4	PK
11	669.5	30.0	46.0	16.0	PK
	893.1	35.4	46.0	10.6	PK
	30.0	25.3	40.0	14.7	PK
	43.6	20.8	40.0	19.2	PK
	133.0	34.3	43.5	9.2	PK
	222.4	29.2	46.0	16.8	PK
V	311.9	26.7	46.0	19.3	PK
	490.7	32.3	46.0	13.7	PK
	580.1	35.9	46.0	10.1	PK
	937.8	34.0	46.0	12.0	PK

Test data at 30MHz~1GHz (Channel M):

Polarization	Frequency	Measured level	Limits	Margin	Detector
Polarization	(MHz)	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	Detector
	30.0	25.0	40.0	15.0	PK
	133.0	25.6	43.5	17.9	PK
Н	401.3	30.5	46.0	15.5	PK
11	669.5	30.0	46.0	16.0	PK
	893.1	35.3	46.0	10.7	PK
	30.0	25.2	40.0	14.8	PK
V	43.6	20.7	40.0	19.3	PK
	133.0	34.3	43.5	9.2	PK
	222.4	29.1	46.0	16.9	PK
	311.9	26.7	46.0	19.3	PK
	490.7	32.3	46.0	13.7	PK
	580.1	35.8	46.0	10.2	PK
	937.8	34.0	46.0	12.0	PK



Test data at 30MHz~1GHz (Channel H):

Polarization	Frequency	Measured level	Limits	Margin	Detector
Polarization	(MHz)	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	Detector
	30.0	24.8	40.0	15.2	PK
	133.0	25.5	43.5	18.0	PK
Н	401.3	30.3	46.0	15.7	PK
11	669.5	30.0	46.0	16.0	PK
	893.1	35.2	46.0	10.8	PK
	30.0	25.3	40.0	14.7	PK
	43.6	20.8	40.0	19.2	PK
V	133.0	34.3	43.5	9.2	PK
	222.4	29.2	46.0	16.8	PK
	311.9	26.3	46.0	19.7	PK
	490.7	32.1	46.0	13.9	PK
	580.1	35.5	46.0	10.5	PK
	937.8	34.0	46.0	12.0	PK

Note: The test plots (30MHz to 1GHz) of channel L (2402MHz) chosen to list in the report as representative.



Test result above 1GHz:

СН	Antenna	Frequency (MHz)	Correct Factor (dB/m)	Corrected Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	Н	2402.00	30.70	98.30	Fundamental	/	PK
	Н	2390.00	30.30	50.10	74.00	23.90	PK
L	Н	2390.00	30.30	36.50	54.00	17.50	AV
	Н	4804.00	-1.50	51.30	74.00	22.70	PK
	Н	7206.00	3.50	52.10	74.00	21.90	PK
	Н	2440.00	30.70	98.20	Fundamental	/	PK
M	Н	4880.00	-1.10	50.60	74.00	23.40	PK
	Н	7320.00	3.60	51.20	74.00	22.80	PK
	Н	2480.00	30.70	97.20	Fundamental	/	PK
	Н	2483.50	30.80	52.20	74.00	21.80	PK
Н	Н	2483.50	30.80	41.90	54.00	12.10	AV
	Н	4960.00	-0.80	48.60	74.00	25.40	PK
	Н	7440.00	3.80	52.70	74.00	21.30	PK

Remark: 1. For fundamental emission, no amplifier is employed.

- 2. Correct Factor = Antenna Factor + Cable Loss (-Amplifier, is employed)
- 3. Corrected Reading = Original Receiver Reading + Correct Factor
- 4. Margin = limit Corrected Reading
- 5. If the PK reading is lower than AV limit, the AV test can be elided.
- 6. The emission was conducted from 30MHz to 25GHz.

Example: Assuming Antenna Factor = 30.20dB/m, Cable Loss = 2.00dB, Gain of Preamplifier = 32.00dB, Original Receiver Reading = 10dBuV. Then Correct Factor = 30.20 + 2.00 - 32.00 = 0.20dB/m; Corrected Reading = 10dBuV + 0.20dB/m = 10.20dBuV/m

Assuming limit = 54 dBuV/m, Corrected Reading = 10.20 dBuV/m, then Margin = 54 - 10.20 = 43.80 dBuV/m



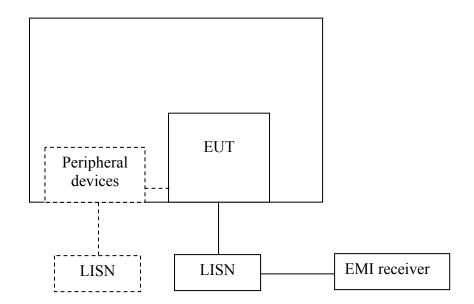
9. Power line conducted emission

Test result: Pass

9.1 Limit

Frequency of Emission (MHz)	Conducted Limit (dBuV)					
	QP	AV				
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.						

9.2 Test configuration



⊠ For table top equipment, wooden support is 0.8m height table

☐ For floor standing equipment, wooden support is 0.1m height rack.



9.3 Test procedure and test set up

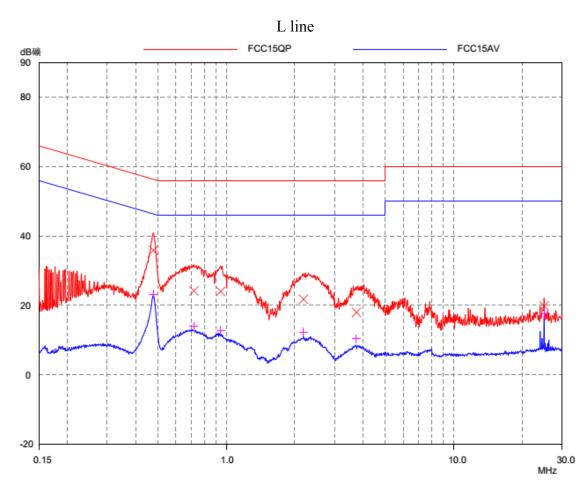
The EUT are connected to the main power through a line impedance stabilization network (LISN). This provides a $50\Omega/50uH$ coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a $50\Omega/50uH$ coupling impedance with 50Ω termination.

Both sides (Line and Neutral) of AC line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to RSS-gen on conducted measurement. The bandwidth of the test receiver is set at 9 kHz.



9.4 Test protocol

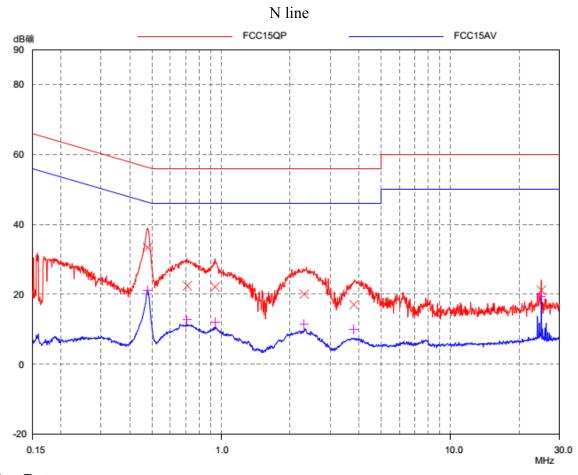
Temperature : 22°C Relative Humidity : 52%



Test Data:

Test Butu.							
Frequency (MHz)	Quasi-peak			Average			
	level dB(µV)	Limit dB(µV)	Margin (dB)	level dB(µV)	limit dB(µV)	Margin (dB)	
0.48	35.9	56.4	20.5	23.2	46.4	23.1	
0.72	24.2	56.0	31.8	13.9	46.0	32.1	
0.94	24.1	56.0	31.9	12.9	46.0	33.1	
2.18	21.8	56.0	34.2	12.3	46.0	33.7	
3.73	18.0	56.0	38.0	10.4	46.0	35.6	
24.94	19.9	60.0	40.1	17.6	50.0	32.4	





Test Data:

Frequency (MHz)	Quasi-peak			Average		
	level dB(µV)	Limit dB(µV)	Margin (dB)	level dB(μV)	limit dB(μV)	Margin (dB)
0.48	33.4	56.4	23.0	21.1	46.4	25.3
0.71	22.5	56.0	33.5	12.7	46.0	33.4
0.94	22.2	56.0	33.8	12.0	46.0	34.1
2.30	20.1	56.0	35.9	11.6	46.0	34.5
3.79	17.1	56.0	38.9	10.0	46.0	36.0
24.94	21.2	60.0	38.8	19.4	50.0	30.6

Note: The worst test results of channel L (2402 MHz) was chosen to list in the report as representative.



10. Antenna Requirement

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 a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

The manufacturer used a unique connector. This antenna connector is a non-standard connector, so fulfill this requirement.