

**APPLICATION FOR EMC DIRECTIVE****On Behalf of****Guangzhou Sexbay Health Technology Co., LTD****Vibrating egg****Trade Name: N/A****Model: BY17-77****FCC ID: 2BK2Y-BY17-77****Prepared For : Guangzhou Sexbay Health Technology Co., LTD**Room 507, Minggao Center, 123 Yingbin Avenue, Huadu District,
Guangzhou**Prepared By : BSL Testing Co.,Ltd.**1/F, Building B, Xinshidai GR Park, Shiyan Street, Bao'an District,
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Date of Test : Sep 28, 2024 to Sep 30, 2024

Date of Report : Oct 15, 2024

Report Number : BSL2410151254456

Test Report

Applicant : Guangzhou Sexbay Health Technology Co., LTD

Address : Room 507, Minggao Center, 123 Yingbin Avenue, Huadu District, Guangzhou

Manufacturer : Foshan Yunai Technology Co.,Ltd

Address : No. 6 workshop of Jinmei Apartment, No. 9 Liansha Avenue North, Danzao Town, Nanhai District, Foshan City, Guangdong

Product Name : Vibrating egg

Model Number : BY17-69, BY17-77, BY17-94, BY17-99, XW2404

Test Model : BY17-77

Trademark: : N/A

Date of Receipt : Sep 24, 2024

Test Date : Sep 28, 2024 to Sep 30, 2024

Date of Report : Oct 15, 2024

Test Result : The equipment under test was found to be compliance with the requirements of the standards applied.

Test Procedure Used:

FCC Part 15 Subpart B

ANSI C63.4:2014

Prepared by(Test Engineer):
Lris Yao

Lris Yao

Reviewer(Supervisor):
Levi Xiao

Levi Xiao

Approved(Manager):
Salon Ouyang

Salon Ouyang

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Revision History of This Test Report		
Report Number	Description	Issued Date
BSL2410151254456	Initial Issue	Oct 15, 2024

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : Vibrating egg
Trademark: : N/A
Model Number : BY17-69, BY17-77, BY17-94, BY17-99, XW2404
all the models are electrical identical including the same software parameter and hardware design (i.e., circuit design, PCB Layout, RF module/circuit, antenna type(s) and
Model Difference : antenna location, components on PCB, etc.), same mechanical structure and design (including product enclosure, materials, etc.). Only the appearance, shape and model name differ.
Power Supply : Input: 5VDC, 300mA
Battery: 3.7VDC, 160mAh
Work Frequency : 2402MHz

Note:

- 1) EUT: Equipment under test
- 2) BY17-77 was selected as the test model and the datas have been recorded in this report.

1.2. Independent Operation Modes

Test Voltage: AC 120V/60Hz or 3.7VDC
Test Mode: A: Charging,
B: On Mode

Remark: The test data of the worst case condition(s) was reported on the following page.

1.3.TEST SUMMARY

Test Procedures According To The Technical Standards:

EMC Emission				
Standard	Test Item	Limit	Judgment	Remark
FCC Part 15 Subpart B	AC Port Conducted Emission	Class B	PASS	
	Radiated Emission	Class B	PASS	
	Asymmetric Mode Conducted Emissions	Class B	N/A	

NOTE:

(1)"N/A" denotes test is not applicable in this Test Report

(2) For client's request and manual description, the test will not be executed.

1.4.Special Accessories and Auxiliary Equipment

Description	Manufacturer	Model No.	Note.
cellphone	HUAWEI	V10	/
Power Adapter	Tianyin	TPQ-228R05 0200UW01	Input:100-240VAC, 50/60Hz, 0.6A Max Output: 5.0VDC, 2.0A

Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

A. Conducted Measurement :

Method	Measurement Frequency Range	U,(dB)	NOTE
CISPR 16-4-2:2018	150 KHz ~ 30MHz	3.01	

B. Radiated Measurement :

Method	Measurement Frequency Range	U,(dB)	NOTE
CISPR 16-4-2:2018	Below 1000MHz	4.25	
	Above 1000MHz	5.1	

1.6. Test Facility

Site Description

Name of Firm : BSL Testing Co.,Ltd.

Site Location : 1/F, Building B, Xinshidai GR Park, Shiyan Street,
Bao'an District, Shenzhen, Guangdong, 518052, People's
Republic of China

2. TEST INSTRUMENT USED

Radiation Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Communication Tester	Rohde & Schwarz	CMW500	100358 Fireware: 4.43 SP4	Oct. 22, 2023	Oct. 21, 2024
2	Spectrum Analyzer	KEYSIGHT	9020A	MY55370835	Oct. 22, 2023	Oct. 21, 2024
3	Test Receiver	R&S	ESC17	US47140102 Fireware: 4.42 SP3	Oct. 22, 2023	Oct. 21, 2024
4	Signal Generator	HP	83630B	3844A01028	Oct. 22, 2023	Oct. 21, 2024
5	Signal Generator	IFR	2023A	202307/242	Oct. 22, 2023	Oct. 21, 2024
6	Amplifier	Agilent	8449B	4035A00116	Oct. 22, 2023	Oct. 21, 2024
7	Amplifier	HP	8447E	2945A02770	Oct. 22, 2023	Oct. 21, 2024
8	Broadband Antenna	SCHAFFNER	2774	2774	Feb.28,2022	Feb.27,2025
9	Biconical and log periodic antennas	ELECTRO-METRICS	EM-6917B-1	171	Feb.28,2022	Feb.27,2025
10	Horn Antenna	R&S	HF906	100253	Feb.28,2022	Feb.27,2025
11	Horn Antenna	Schwarzbeck	BBHA9170	00814	Feb.28,2022	Feb.27,2025
12	Horn Antenna	EM	EM-6961	6462	Feb.28,2022	Feb.27,2025
13	3m Semi-Anechoic Chamber	Chengyu Electron	9 (L)*6 (W)* 6 (H)	BSL086	Feb.28,2022	Feb.27,2025
14	Loop Antenna	ZHINAN	ZN30900C	20073	Feb.28,2022	Feb.27,2025
15	power meter	DARE	RPR3006W	15I00041SNO0	Oct.27,2023	Oct.26,2024
16	RF Control Unit	MWRFTest	Mw100	-	Oct.27,2023	Oct.26,2024
17	Test software	MWRFTest	V8310	-	-	-
18	Turntable	MF	MF-7802BS	N/A	\	\
19	Antenna tower	MF	MF-7802BS	N/A	\	\
20	Signal Generator	Agilent	N5182A	N/A	Oct.27,2023	Oct.26,2024

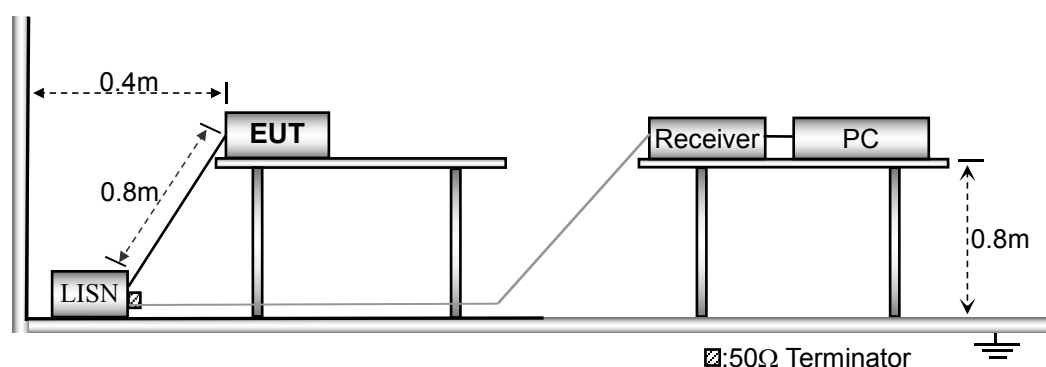
Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	LISN	R&S	ENV216	101471	Oct.27,2023	Oct.26,2024
2	LISN	CYBERTEK	EM5040A	E1850400149	Oct.27,2023	Oct.26,2024
3	Test Cable	N/A	C01	N/A	Oct.27,2023	Oct.26,2024
4	Test Cable	N/A	C02	N/A	Oct.27,2023	Oct.26,2024

5	EMI Test Receiver	R&S	ESCI3	101393	Oct.27,2023	Oct.26,2024
6	Absorbing Clamp	DZ	ZN23201	15034	Oct.27,2023	Oct.26,2024
7	EMC Software	Frad	EZ-EMC	Ver.EMC-CON 3A1.1	\	\

3. CONDUCTED EMISSION AT THE MAINS TERMINALS TEST

3.1. Block Diagram Of Test Setup



3.2. Test Standard

FCC PART 15 Subpart B

3.3. Power Line Conducted Emission Limit

Frequency MHz	Limits dB(μV)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.4. EUT Configuration on Test

The following equipments are installed on conducted emission test to meet FCC PART 15 Subpart B requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

3.5. Operating Condition of EUT

3.5.1 Setup the EUT and simulators as shown in Section 3.1.

3.5.2 Turn on the power of all equipments.

3.5.3 Let the EUT work in test modes and test it.

3.6. Test Procedure

The EUT is put on the ground and connected to the AC mains through a Artificial Mains Network (AMN). This provided a 50ohm coupling impedance for the tested equipments. Both sides of AC line are checked to find out the maximum conducted emission levels according to the **FCC PART 15 Subpart B** regulations during conducted emission test.

The bandwidth of the test receiver (R&S Test Receiver ESCI) is set at 9KHz.

The frequency range from 150 KHz to 30 MHz is investigated.

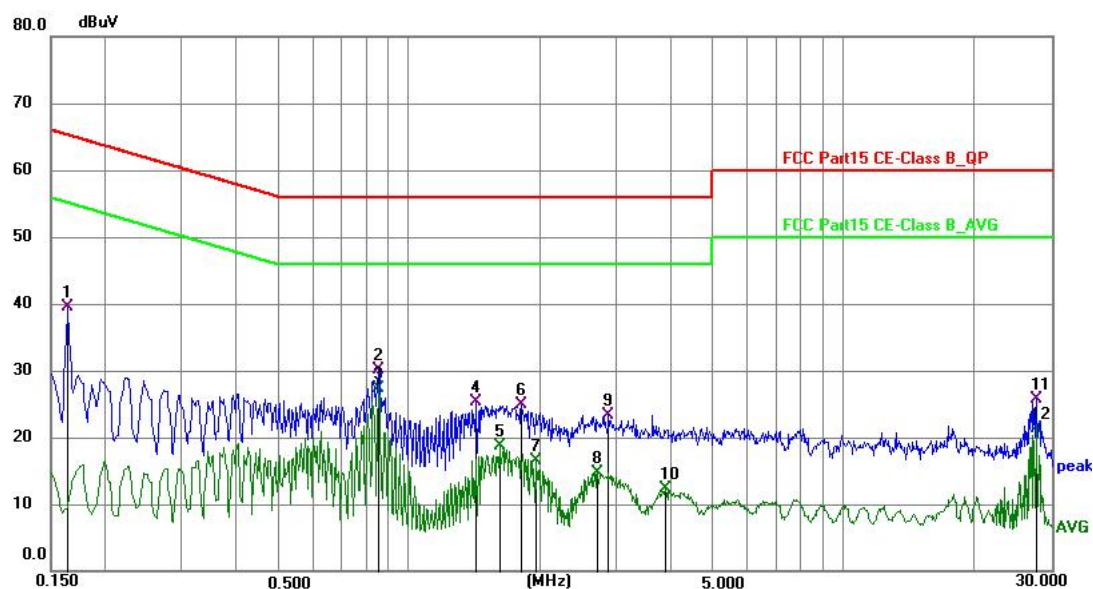
3.7. Test Result

PASS

Please refer to the following page.

Conducted Emission At The Mains Terminals Test Data

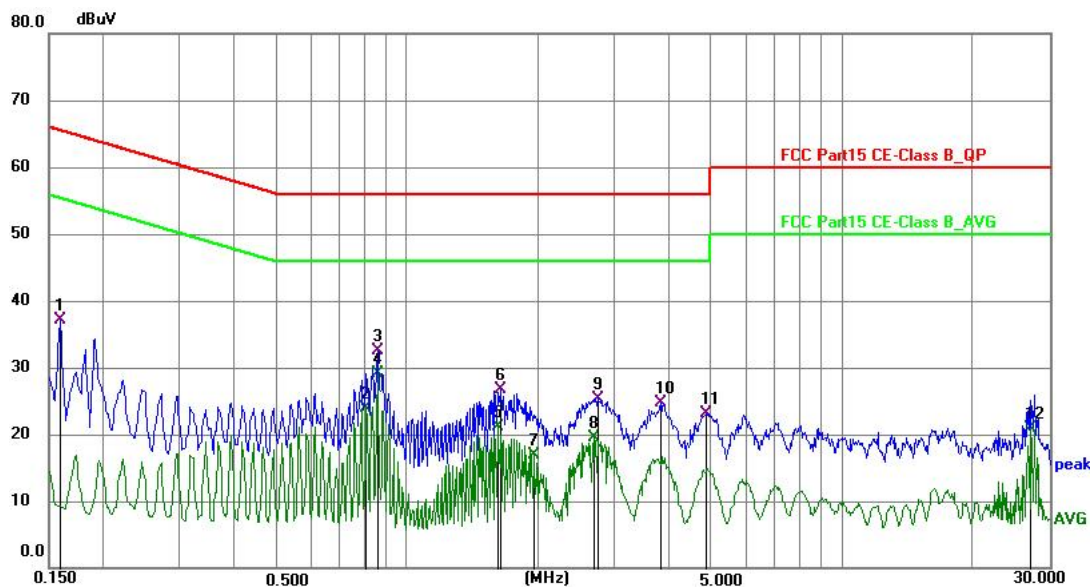
Temperature:	23°C	Relative Humidity:	51%
Pressure:	1008hPa	Phase :	Line
Test Voltage :	AC 120V/60Hz	Test Mode:	Charging



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1635	29.86	9.56	39.42	65.28	-25.86	QP	P	
2	0.8520	20.40	9.62	30.02	56.00	-25.98	QP	P	
3 *	0.8520	17.66	9.62	27.28	46.00	-18.72	AVG	P	
4	1.4280	15.68	9.61	25.29	56.00	-30.71	QP	P	
5	1.6170	9.03	9.64	18.67	46.00	-27.33	AVG	P	
6	1.8150	15.23	9.68	24.91	56.00	-31.09	QP	P	
7	1.9545	6.80	9.71	16.51	46.00	-29.49	AVG	P	
8	2.7195	5.12	9.65	14.77	46.00	-31.23	AVG	P	
9	2.8815	13.77	9.63	23.40	56.00	-32.60	QP	P	
10	3.8940	2.73	9.54	12.27	46.00	-33.73	AVG	P	
11	27.6180	15.92	9.69	25.61	60.00	-34.39	QP	P	
12	27.6180	11.54	9.69	21.23	50.00	-28.77	AVG	P	

Conducted Emission At The Mains Terminals Test Data

Temperature:	23°C	Relative Humidity:	51%
Pressure:	1008hPa	Phase :	Neutral
Test Voltage :	AC 120V/60Hz	Test Mode:	Charging

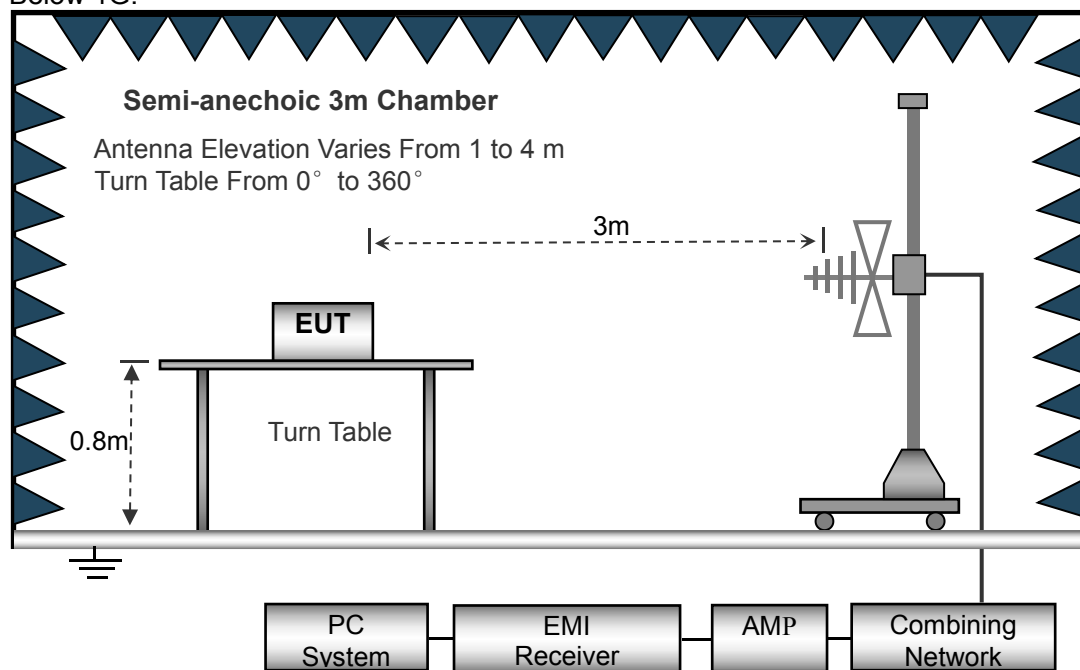


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1590	27.55	9.55	37.10	65.52	-28.42	QP	P	
2	0.8070	14.22	9.65	23.87	46.00	-22.13	AVG	P	
3	0.8565	22.80	9.62	32.42	56.00	-23.58	QP	P	
4 *	0.8565	19.39	9.62	29.01	46.00	-16.99	AVG	P	
5	1.6170	11.40	9.64	21.04	46.00	-24.96	AVG	P	
6	1.6395	17.05	9.65	26.70	56.00	-29.30	QP	P	
7	1.9590	7.13	9.71	16.84	46.00	-29.16	AVG	P	
8	2.6925	9.87	9.65	19.52	46.00	-26.48	AVG	P	
9	2.7420	15.75	9.65	25.40	56.00	-30.60	QP	P	
10	3.8220	15.21	9.55	24.76	56.00	-31.24	QP	P	
11	4.8705	13.59	9.53	23.12	56.00	-32.88	QP	P	
12	27.1545	11.21	9.68	20.89	50.00	-29.11	AVG	P	

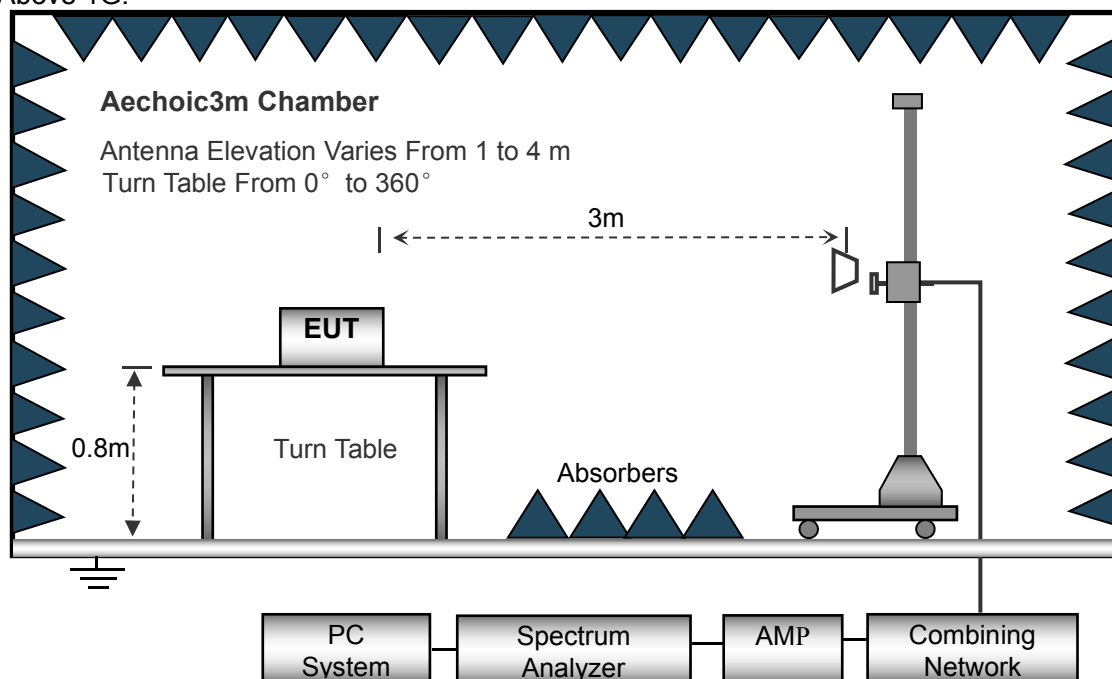
4. RADIATION EMISSION TEST

4.1. Block Diagram of Test Setup

Below 1G:



Above 1G:



4.2. Test Standard

FCC PART 15 Subpart B

4.3. Radiation Limit

Limits of Radiated Emission Measurement(Below 1000MHz)

Frequency (MHz)	☐ Class A (at 10m)		☒ Class B (at 3m)	
	(uV/m)	(dBuV/m)	(uV/m)	(dBuV/m)
30-88	90	39	100	40
88-216	150	43.5	150	43.5
216-960	210	46.4	200	46
Above 960	300	49.5	500	54

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency (GHz)	☐ Class A (dBuV/m) (at 3m)		☒ Class B (dBuV/m) (at 3m)	
	Peak	Average	Peak	Average
Above 1000MHz	80	60	74	54

4.4. EUT Configuration on Test

The FCC PART 15 Subpart B regulations test method must be used to find the maximum emission during radiated emission test.

The configuration of EUT is the same as used in conducted emission test. Please refer to Section 3.4.

4.5. Operating Condition of EUT

Same as conducted emission test, which is listed in Section 3.5 except the test set up replaced as Section 4.1.

4.6. Test Procedure

The EUT and its simulators are placed on a turned table that is 0.8 meter above the ground. The turned table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna that is mounted on the antenna tower. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated biconical and log periodical antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on test. In order to find the maximum emission levels, the interface cable must be manipulated according to FCC PART 15 Subpart B on radiated emission test.

The bandwidth setting on the field strength meter (R&S Test Receiver ESCI)

is set at 120KHz below 1GHz, set at 1MHz above 1GHz
The frequency range from 30MHz to 1000MHz is checked.

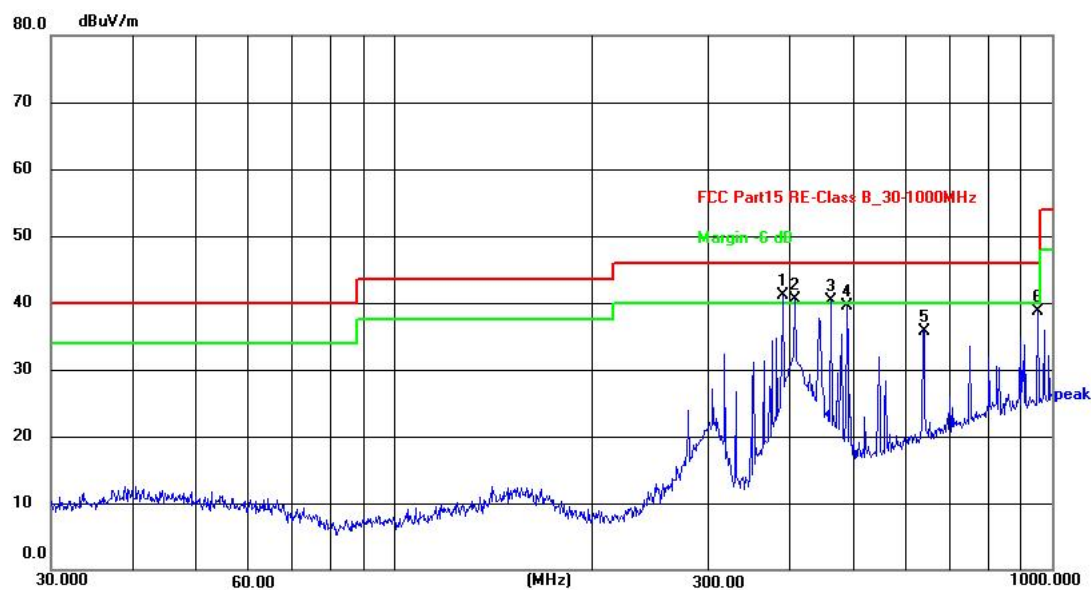
4.7.Test Result

PASS

Please refer to the following page.

Below 1GHz:

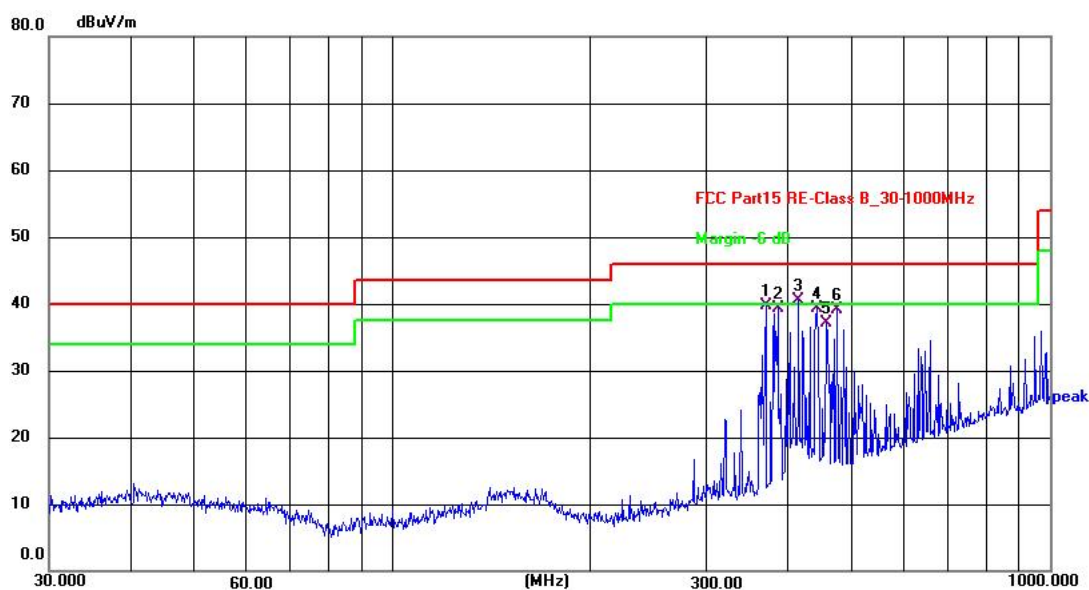
Radiation Emission Test Data			
Temperature:	23 °C	Relative Humidity:	55%
Pressure:	1008hPa	Phase :	Horizontal
Test Voltage :	3.7VDC	Test Mode:	On Mode



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	389.3548	54.73	-13.60	41.13	46.00	-4.87	QP
2 !	406.0880	53.62	-13.04	40.58	46.00	-5.42	QP
3 !	460.7271	51.88	-11.64	40.24	46.00	-5.76	QP
4	487.3151	50.67	-11.13	39.54	46.00	-6.46	QP
5	638.3686	43.69	-8.00	35.69	46.00	-10.31	QP
6	952.0937	41.37	-2.59	38.78	46.00	-7.22	QP

Radiation Emission Test Data

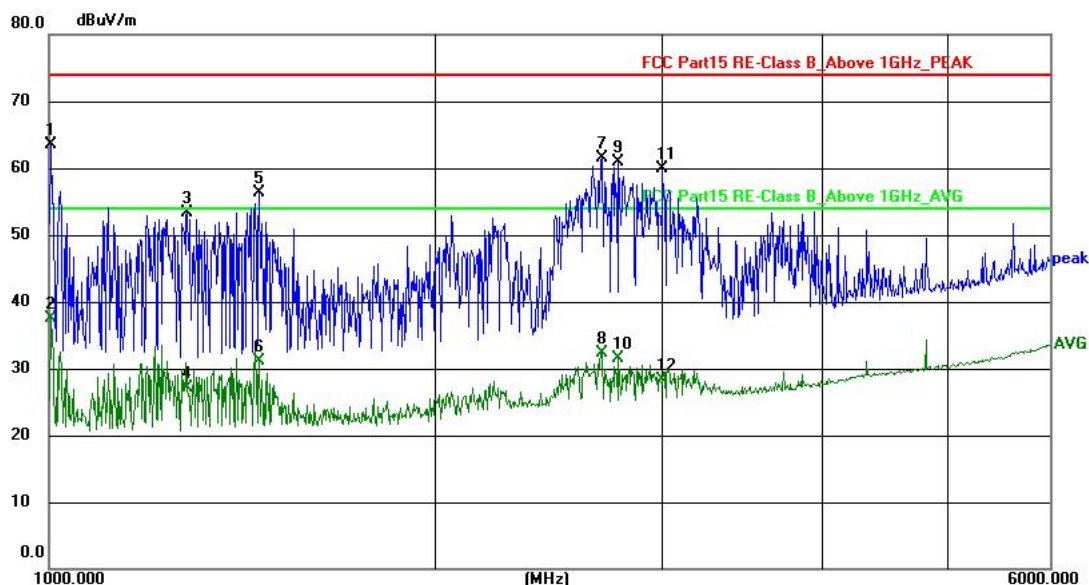
Temperature:	23 °C	Relative Humidity:	55%
Pressure:	1008hPa	Phase :	Vertical
Test Voltage :	3.7VDC	Test Mode:	On Mode



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	369.4047	53.98	-14.35	39.63	46.00	-6.37	QP
2	385.2805	53.12	-13.76	39.36	46.00	-6.64	QP
3 *	414.7223	53.23	-12.81	40.42	46.00	-5.58	QP
4	441.7426	51.31	-12.07	39.24	46.00	-6.76	QP
5	457.5073	48.83	-11.70	37.13	46.00	-8.87	QP
6	473.8347	50.47	-11.38	39.09	46.00	-6.91	QP

Above 1G:

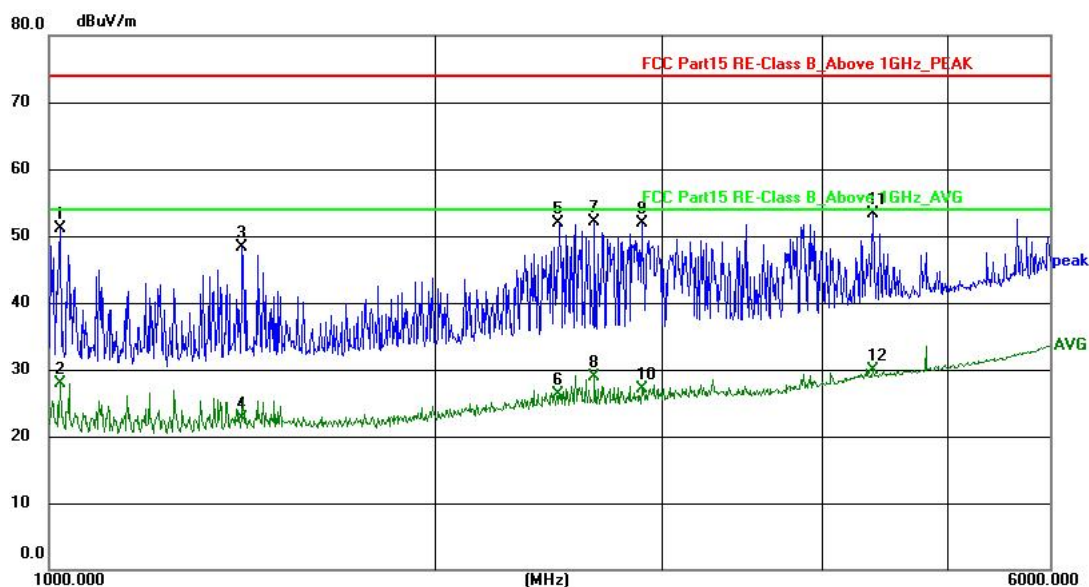
Radiation Emission Test Data			
Temperature:	23 °C	Relative Humidity:	55%
Pressure:	1008hPa	Phase :	Horizontal
Test Voltage :	3.7VDC	Test Mode:	On Mode



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)
1 *	1003.590	71.75	-8.20	63.55	74.00	-10.45	peak	100
2	1003.590	45.67	-8.20	37.47	54.00	-16.53	AVG	100
3	1280.516	61.37	-8.06	53.31	74.00	-20.69	peak	100
4	1280.516	35.10	-8.06	27.04	54.00	-26.96	AVG	100
5	1456.840	63.97	-7.65	56.32	74.00	-17.68	peak	100
6	1456.840	38.83	-7.65	31.18	54.00	-22.82	AVG	100
7	2693.504	64.50	-3.00	61.50	74.00	-12.50	peak	100
8	2693.504	35.35	-3.00	32.35	54.00	-21.65	AVG	100
9	2771.839	63.53	-2.68	60.85	74.00	-13.15	peak	100
10	2771.839	34.19	-2.68	31.51	54.00	-22.49	AVG	100
11	2999.209	61.58	-1.72	59.86	74.00	-14.14	peak	100
12	2999.209	29.93	-1.72	28.21	54.00	-25.79	AVG	100

Radiation Emission Test Data

Temperature:	23 °C	Relative Humidity:	55%
Pressure:	1008hPa	Phase :	Vertical
Test Voltage :	3.7VDC	Test Mode:	On Mode



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1019.905	60.81	-9.64	51.17	74.00	-22.83	peak
2	1019.905	37.48	-9.64	27.84	54.00	-26.16	AVG
3	1413.133	56.24	-7.88	48.36	74.00	-25.64	peak
4	1413.133	30.51	-7.88	22.63	54.00	-31.37	AVG
5	2493.774	55.39	-3.53	51.86	74.00	-22.14	peak
6	2493.774	29.93	-3.53	26.40	54.00	-27.60	AVG
7	2655.171	55.22	-3.20	52.02	74.00	-21.98	peak
8	2655.171	32.11	-3.20	28.91	54.00	-25.09	AVG
9	2888.455	54.58	-2.73	51.85	74.00	-22.15	peak
10	2888.455	29.93	-2.73	27.20	54.00	-26.80	AVG
11 *	4369.367	52.57	0.71	53.28	74.00	-20.72	peak
12	4369.367	29.17	0.71	29.88	54.00	-24.12	AVG

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel:2402MHz									
V	7206.00	54.71	30.33	6.32	24.55	55.25	74.00	-18.75	Pk
V	7206.00	43.06	30.33	6.32	24.55	43.60	54.00	-10.40	AV
V	9608.00	51.87	30.85	7.45	24.69	53.16	74.00	-20.84	Pk
V	9608.00	43.16	30.85	7.45	24.69	44.45	54.00	-9.55	AV
V	12010.00	50.10	31.02	8.99	25.57	53.64	74.00	-20.36	Pk
V	12010.00	43.81	31.02	8.99	25.57	47.35	54.00	-6.65	AV
H	7206.00	53.18	30.33	6.32	24.55	53.72	74.00	-20.28	Pk
H	7206.00	43.40	30.33	6.32	24.55	43.94	54.00	-10.06	AV
H	9608.00	50.06	30.85	7.45	24.69	51.35	74.00	-22.65	Pk
H	9608.00	43.14	30.85	7.45	24.69	44.43	54.00	-9.57	AV
H	12010.00	53.58	31.02	8.99	25.57	57.12	74.00	-16.88	Pk
H	12010.00	43.77	31.02	8.99	25.57	47.31	54.00	-6.69	AV

5. EUT TEST PHOTO

See Attachment I for details.

6. PHOTOGRAPHS

See Attachment II for details.