



FCC TEST REPORT

FCC ID: 2BOCT-ZF550

Applicant: Shenzhen Papani Pet Products Co., Ltd.

Address: Room 501, Block D, Huachuangda Technology Park, No. 176, Hangcheng Avenue, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, China.

Manufacturer: Shenzhen Papani Pet Products Co., Ltd.

Address: Room 501, Block D, Huachuangda Technology Park, No. 176, Hangcheng Avenue, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, China.

Product Name: GPS Wireless fence

Trade Mark: N/A

Model Number: ZF550

Date of Receipt: Mar. 09, 2026

Test Date: Mar. 09, 2026 - Mar. 18, 2026

Date of Report: Mar. 18, 2026

Prepared By: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China

Applicable Standards: FCC Part 15 Subpart B
ANSI C63.4:2014

Test Result: Pass

Report Number: DLE-260309006R

Prepared (Test Engineer): Ken Tan

Reviewer (Supervisor): Jack Bu

Approved (Manager): Jade Yang



This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.

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**1. VERSION**

Version No.	Date	Description
00	Mar. 18, 2026	Original

2. TEST SUMMARY

EMC Emission				
Standard	Test Item	Limit	Result	Remark
FCC PART 15 B	Conducted Emission at power ports	Class B	PASS	
	Radiated Emission below 1GHz	Class B	PASS	
	Radiated Emission above 1GHz	Class B	PASS	

NOTE:

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

(2) Test Facility: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1
Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China

FCC Test Firm Registration Number: 854456

IC Registered No.: 27485

Designation Number: CN1307

CAB ID.: CN0118

(3) Report version: FCC PART 15 B _202601



3. GENERAL INFORMATION

3.1 Description of Device (EUT)

Product Name: GPS Wireless fence
Trade Mark: N/A
Model Number: ZF550
Test Model: ZF550
Model difference: N/A
Power Supply: DC 3.7V from battery
DC 5V from charger
Working Frequency: L1:1559MHZ-1610MHZ
L2:1215MHZ-1300MHZ

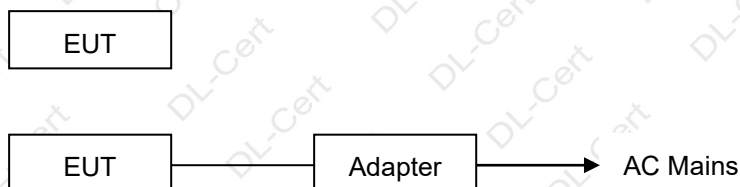
NOTE:

- (1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- (2) The EUT's all information provided by client.

3.2 Tested System Details

None.

3.3 Block Diagram of Test Set-up



3.4 Test Mode Description

Mode1. : On Mode

Mode2. : Charging Mode

Note: All patterns have been tested, and the report only shows the worst pattern data.

3.5 Test Auxiliary Equipment

Adapter (Provide by test lab):
Manufacturer: XIAOMI
Model: MDY-08-EF

3.6 Test Uncertainty

Conducted Emission Uncertainty : $\pm 2.56\text{dB}$

Radiated Emission Uncertainty : $\pm 3.24\text{dB}$

**4. TEST INSTRUMENT USED****For Conducted Emission Test (843 Shielded Room)**

Equipment	Manufacturer	Model	Serial	Last Cal.	Next Cal.
843 Shielded Room	YIHENG	843 Room	843	Nov. 05, 2023	Nov. 04, 2026
EMI Receiver	R&S	ESR	101421	Oct. 25, 2025	Oct. 24, 2026
LISN	R&S	ENV216	102417	Oct. 25, 2025	Oct. 24, 2026
Clamp	COM-POWER	CLA-050	431072	Oct. 27, 2025	Oct. 26, 2026
3-Loop Antenna	DAZE	ZN30401	13021	Oct. 27, 2025	Oct. 26, 2026
ISN T8	Schwarzbeck	NTFM 8158	101135	Oct. 25, 2025	Oct. 24, 2026
ISN T5	Schwarzbeck	NTFM 8158	101136	Oct. 25, 2025	Oct. 24, 2026
843 Cable 1#	ChengYu	CE Cable	001	Oct. 25, 2025	Oct. 24, 2026
843 Cable 1#	ChengYu	CL Cable	002	Oct. 25, 2025	Oct. 24, 2026

For Radiated Emission Test (966 chamber)

Equipment	Manufacturer	Model	Serial	Last Cal.	Next Cal.
966 chamber	YIHENG	966 Room	966	Nov. 06, 2023	Nov. 05, 2026
Spectrum Analyzer	Agilent	E4408B	MY50140780	Oct. 25, 2025	Oct. 24, 2026
EMI Receiver	R&S	ESRP7	101393	Oct. 25, 2025	Oct. 24, 2026
Amplifier	Schwarzbeck	BBV9743B	00153	Oct. 25, 2025	Oct. 24, 2026
Amplifier	EMEC	EM01G8GA	00270	Oct. 25, 2025	Oct. 24, 2026
Broadband Trilog Antenna	Schwarzbeck	VULB9162	00306	Oct. 26, 2025	Oct. 25, 2026
Horn Antenna	Schwarzbeck	BBHA9120D	02139	Oct. 26, 2025	Oct. 25, 2026
966 Cable 1#	ChengYu	966	004	Oct. 25, 2025	Oct. 24, 2026
966 Cable 2#	ChengYu	966	003	Oct. 25, 2025	Oct. 24, 2026

Other

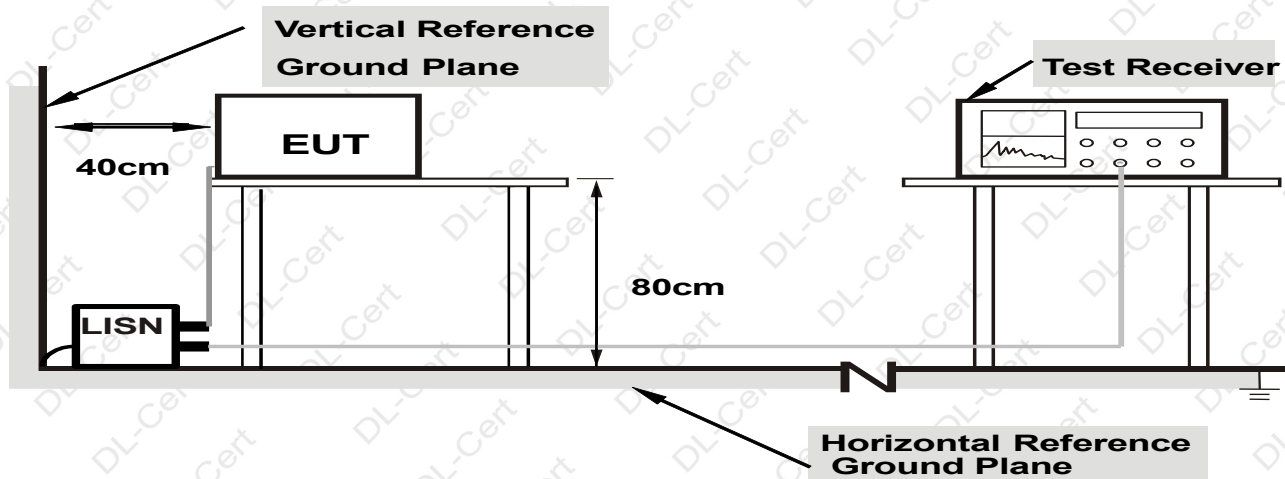
Name	Manufacturer	Model	Software version
EMC Conduction Test System	FALA	EZ_EMG	EMC-CON 3A1.1
EMC radiation test system	FALA	EZ_EMG	FA-03A2



5. CONDUCTED EMISSION TEST

5.1 Block Diagram of Test Setup

For Mains Terminals Test



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

5.2 Test Standard and Limit

FCC PART 15 B

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.

5.3 EUT Configuration on Test

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

5.4 Operating Condition of EUT

5.4.1 Setup the EUT and simulators as shown in Section 5.1.

5.4.2 Turn on the power of all equipments.

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



5.5 Test Procedure

The EUT is put on the table and connected to the AC mains through a Artificial Mains Network (AMN) or ISN. 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 **ANSI C63.4** regulations during conducted emission test.

The bandwidth of the test receiver (R&S Test Receiver ESR) is set at 10KHz.

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

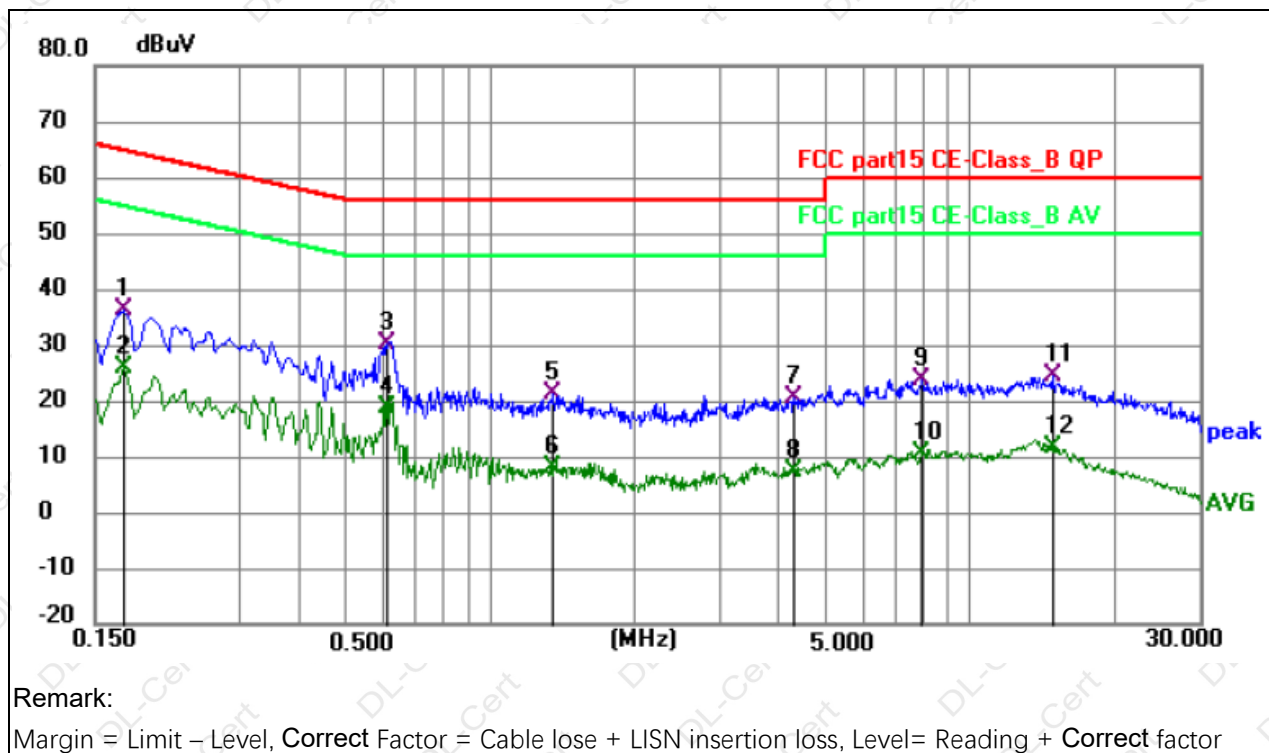
5.6 Test Result

PASS

Please refer to the following page.



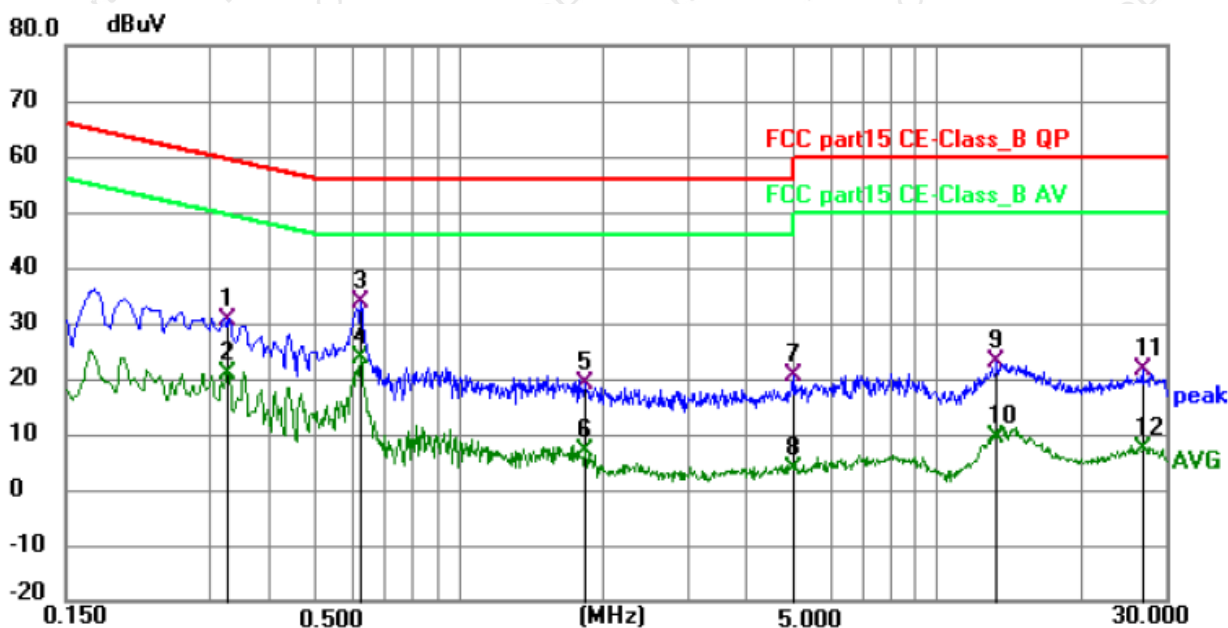
Temperature:	25 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 2



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1724	26.17	9.95	36.12	64.84	-28.72	QP	P	
2	0.1724	15.89	9.95	25.84	54.84	-29.00	AVG	P	
3 *	0.6134	20.39	9.89	30.28	56.00	-25.72	QP	P	
4	0.6134	8.95	9.89	18.84	46.00	-27.16	AVG	P	
5	1.3560	11.43	9.82	21.25	56.00	-34.75	QP	P	
6	1.3560	-1.89	9.82	7.93	46.00	-38.07	AVG	P	
7	4.2810	10.32	10.10	20.42	56.00	-35.58	QP	P	
8	4.2810	-2.66	10.10	7.44	46.00	-38.56	AVG	P	
9	7.9574	13.65	10.17	23.82	60.00	-36.18	QP	P	
10	7.9574	0.24	10.17	10.41	50.00	-39.59	AVG	P	
11	14.8785	14.29	10.19	24.48	60.00	-35.52	QP	P	
12	14.8785	1.40	10.19	11.59	50.00	-38.41	AVG	P	



Temperature:	25 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 2



Remark:

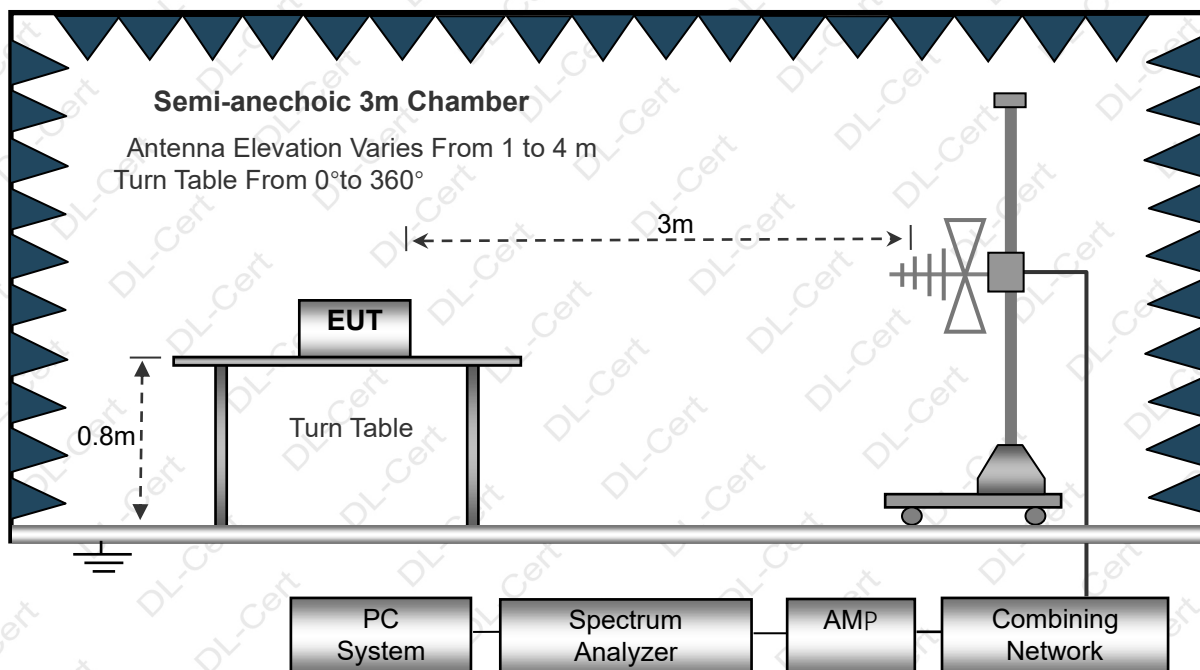
Margin = Limit – Level, Correct Factor = Cable lose + LISN insertion loss, Level= Reading + Correct factor

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.3300	20.59	9.94	30.53	59.45	-28.92	QP	P	
2	0.3300	10.84	9.94	20.78	49.45	-28.67	AVG	P	
3	0.6225	23.71	9.87	33.58	56.00	-22.42	QP	P	
4 *	0.6225	13.87	9.87	23.74	46.00	-22.26	AVG	P	
5	1.8330	9.00	9.98	18.98	56.00	-37.02	QP	P	
6	1.8330	-3.18	9.98	6.80	46.00	-39.20	AVG	P	
7	4.9785	10.40	10.13	20.53	56.00	-35.47	QP	P	
8	4.9785	-6.46	10.13	3.67	46.00	-42.33	AVG	P	
9	13.3125	12.80	10.18	22.98	60.00	-37.02	QP	P	
10	13.3125	-0.59	10.18	9.59	50.00	-40.41	AVG	P	
11	26.9205	11.23	10.31	21.54	60.00	-38.46	QP	P	
12	26.9205	-2.82	10.31	7.49	50.00	-42.51	AVG	P	

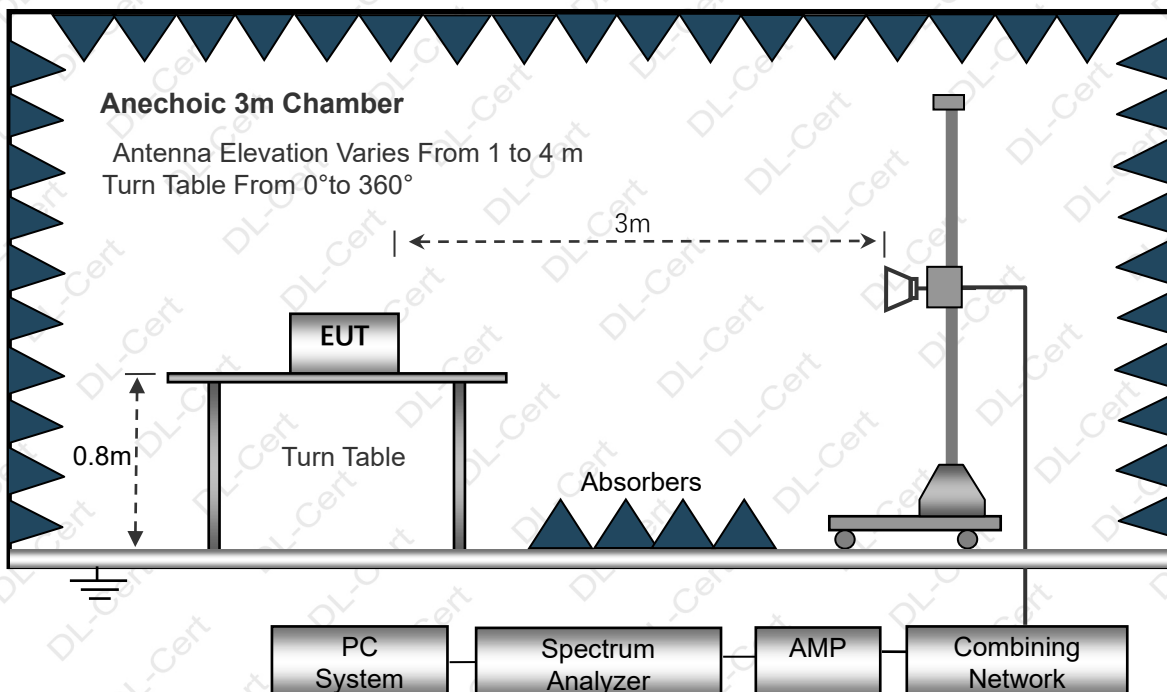
6. RADIATION EMISSION TEST

6.1 Block Diagram of Test Setup

Below 1GHz



Above 1GHz



6.2 Test Standard and Limit

FCC PART 15 B

Below 1GHz



Frequency (MHz)	Distance (Meters)	Field Strengths Limits (dB μ V/m)
30 ~ 88	3	40.0
88 ~ 216	3	43.5
216 ~ 960	3	46.0
960 ~ 1000	3	54.0

Above 1GHz

Frequency MHz	Distance (Meters)	Field Strengths Limits dB(μ V)/m	Detector
1000~6000	3	74.0	PEAK
1000~6000	3	54.0	AVERAGE

Remark:

(1) The smaller limit shall apply at the cross point between two frequency bands.

(2) Distance refers to the distance in meters between the measuring instrument, antenna and the closed point of any part of the device or system.

6.3 EUT Configuration on Test

The FCC PART 15 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 5.3.

6.4 Operating Condition of EUT

Same as conducted emission test, which is listed in Section 5.4 except the test set up replaced as Section 6.2.

6.5 Test Procedure

- 1) The radiated emissions test was conducted in a semi-anechoic chamber.
- 2) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
- 3) Before final measurements of radiated emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emissions spectrum plots of the EUT.
- 4) The frequencies of maximum emission were determined in the final radiated emissions measurement. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization.
- 5) The bandwidth setting on the field strength meter (R&S Test Receiver ESCI) is set at 120KHz.
- 6) The frequency range from 30MHz to 6000MHz is checked.

6.6 Test Result

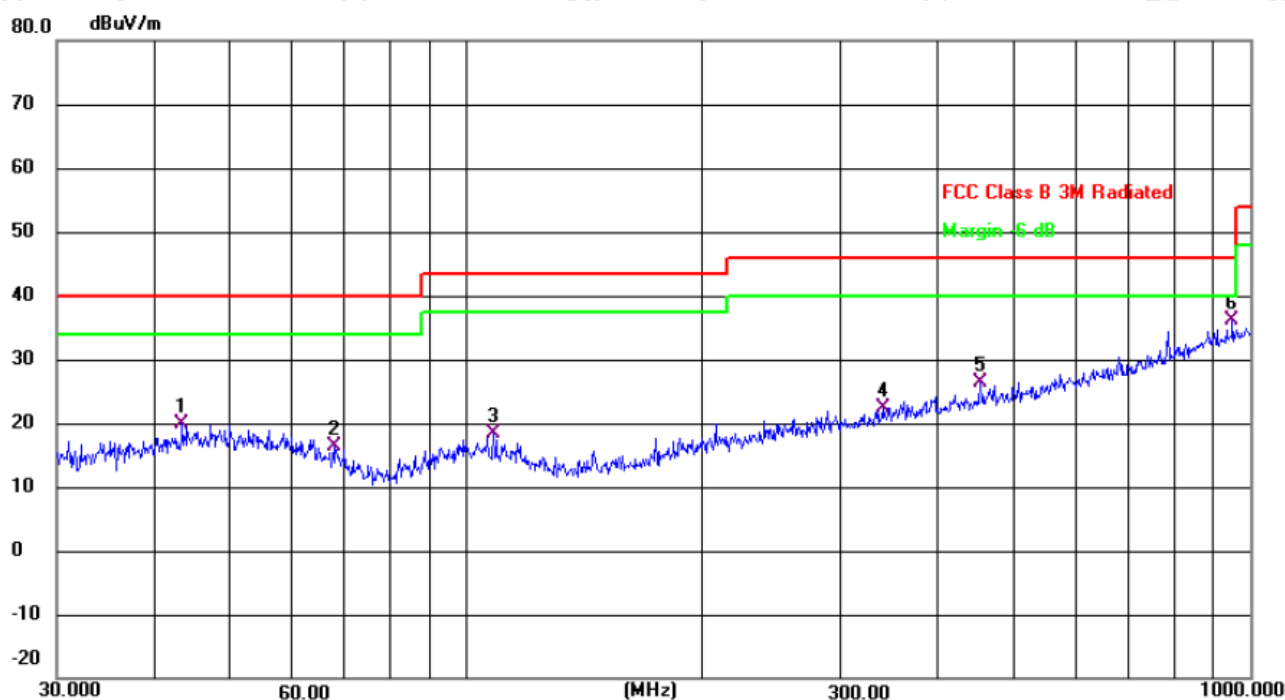
PASS

Please refer to the following page.



Radiation Emission Test Data

Temperature:	24.5℃	Relative Humidity:	54%
Pressure:	1009hPa	Polarization:	Horizontal
Test Voltage:	DC 3.7V	Test Mode:	Mode 1



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector
1		43.3534	27.22	-7.39	19.83	40.00	-20.17	QP
2		67.9129	26.69	-10.42	16.27	40.00	-23.73	QP
3		108.2667	27.67	-9.21	18.46	43.50	-25.04	QP
4		339.5888	26.91	-4.57	22.34	46.00	-23.66	QP
5		452.7197	29.05	-2.61	26.44	46.00	-19.56	QP
6	*	948.7610	29.37	6.65	36.02	46.00	-9.98	QP

Remark:

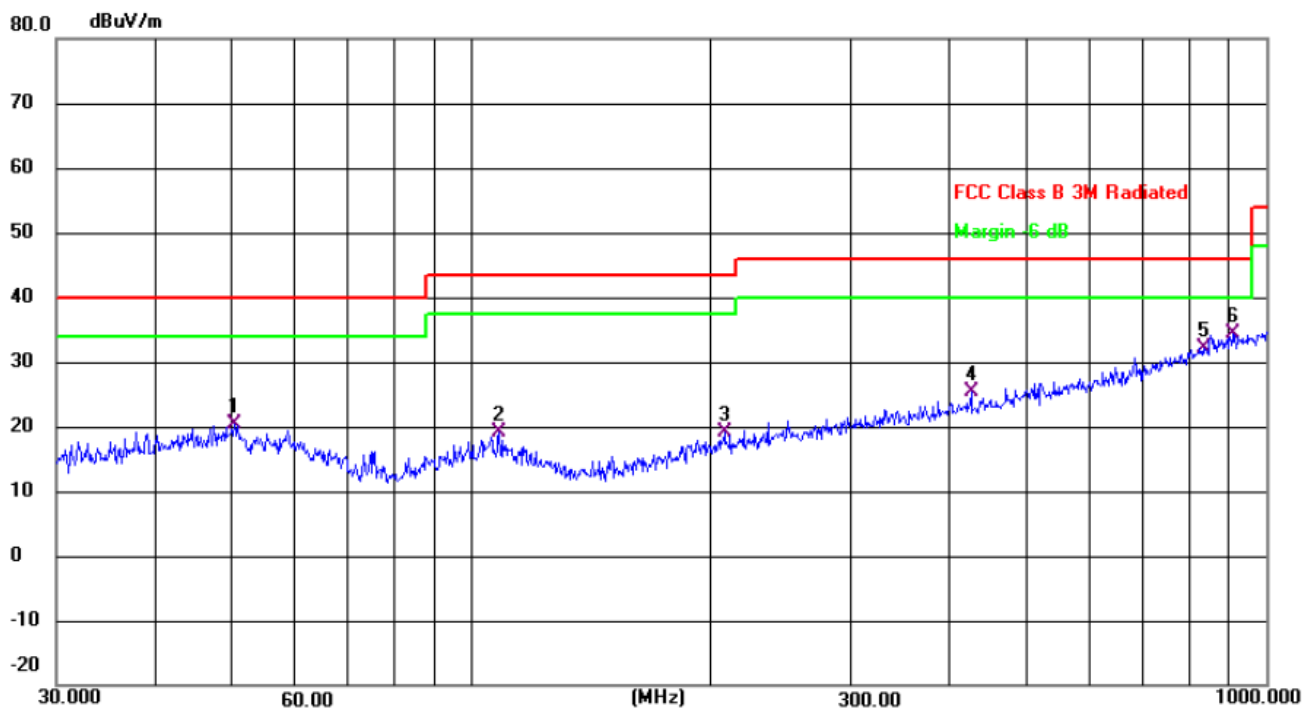
Correct Factor=Cable loss+Antenna factor-Preamplifier

Measurement Level = Reading Level + Correct Factor; Margin = Measurement Level- Limit;



Radiation Emission Test Data

Temperature:	24.5℃	Relative Humidity:	54%
Pressure:	1009hPa	Polarization:	Vertical
Test Voltage:	DC 3.7V	Test Mode:	Mode 1



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector
1		50.2324	27.65	-7.17	20.48	40.00	-19.52	QP
2		108.2667	28.42	-9.21	19.21	43.50	-24.29	QP
3		207.8501	27.80	-8.72	19.08	43.50	-24.42	QP
4		425.0280	28.52	-3.07	25.45	46.00	-20.55	QP
5		833.3171	27.06	5.13	32.19	46.00	-13.81	QP
6	*	906.4824	27.95	6.31	34.26	46.00	-11.74	QP

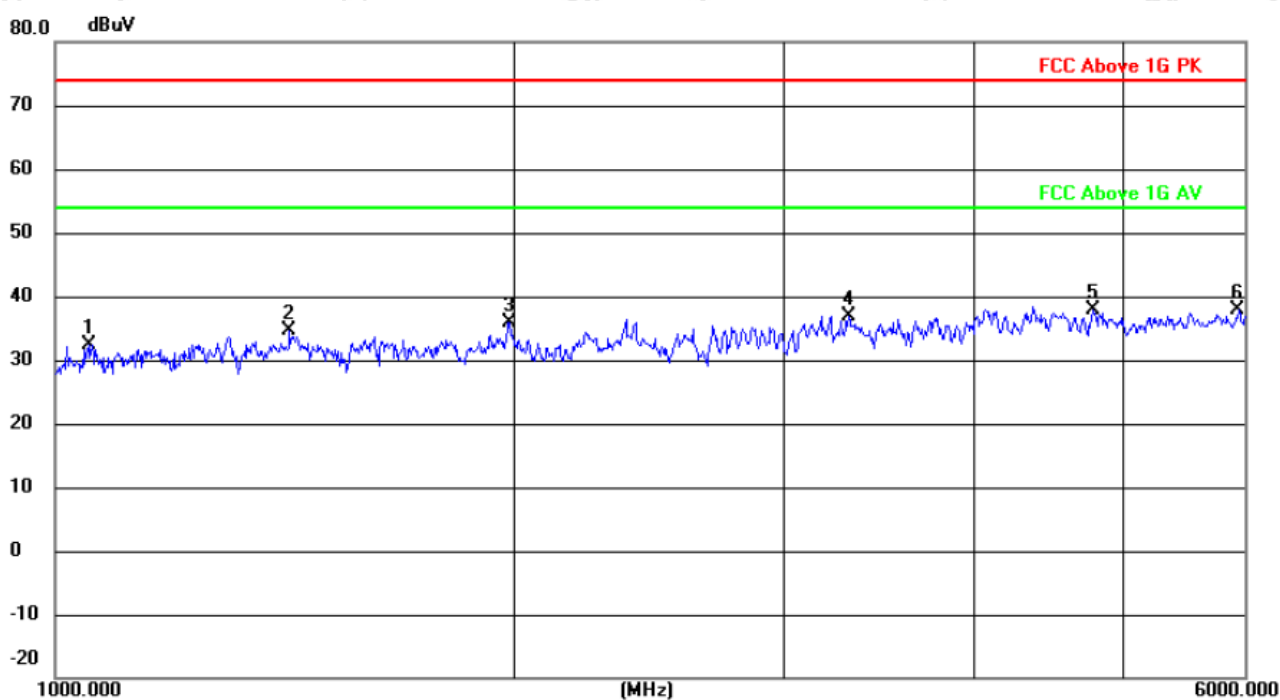
Remark:

Correct Factor=Cable loss+Antenna factor-Preamplifier

Measurement Level = Reading Level + Correct Factor; Margin = Measurement Level- Limit;

**Radiation Emission Test Data (Above 1GHz)**

Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Polarization:	Horizontal
Test Voltage:	DC 3.7V	Test Mode:	Mode 1



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector
1		1051.449	53.34	-20.85	32.49	74.00	-41.51	peak
2		1423.298	53.46	-18.93	34.53	74.00	-39.47	peak
3		1982.685	52.19	-16.39	35.80	74.00	-38.20	peak
4		3303.900	49.06	-12.17	36.89	74.00	-37.11	peak
5	*	4778.879	42.90	-4.95	37.95	74.00	-36.05	peak
6		5946.487	39.58	-1.71	37.87	74.00	-36.13	peak

Remark:

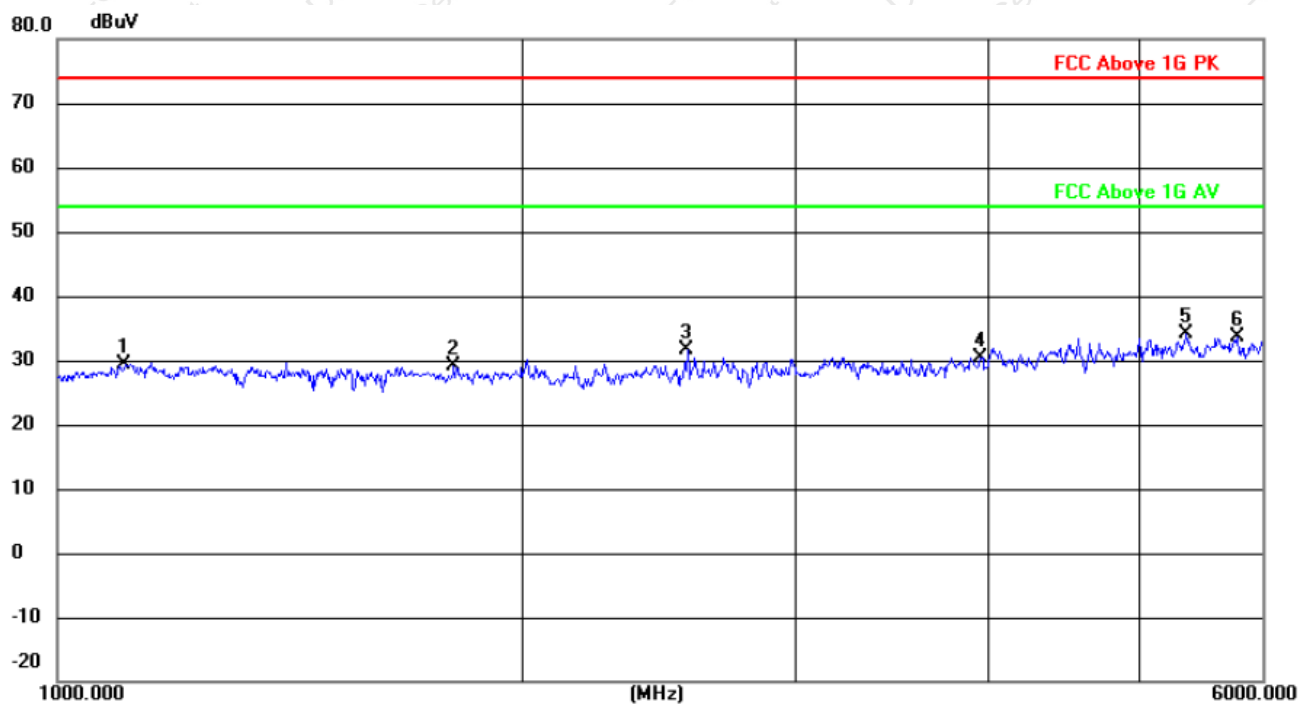
Correct Factor=Cable loss+Antenna factor-Preamplifier

Measurement Level = Reading Level + Correct Factor; Margin = Measurement Level- Limit;



Radiation Emission Test Data (Above 1GHz)

Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Polarization:	Vertical
Test Voltage:	DC 3.7V	Test Mode:	Mode 1



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		1105.545	49.91	-20.56	29.35	74.00	-44.65	peak
2		1803.066	46.46	-17.29	29.17	74.00	-44.83	peak
3		2552.543	47.24	-15.58	31.66	74.00	-42.34	peak
4		3945.153	39.14	-8.78	30.36	74.00	-43.64	peak
5	*	5359.542	37.83	-3.80	34.03	74.00	-39.97	peak
6		5778.433	35.71	-2.08	33.63	74.00	-40.37	peak

Remark:

Correct Factor=Cable loss+Antenna factor-Preamplifier

Measurement Level = Reading Level + Correct Factor; Margin = Measurement Level- Limit;



7. TEST SEUUP PHOTO

Reference to the appendix I for details.

8. EUT PHOTOGRAPHS

Reference to the appendix II for details.

******* END OF REPORT *******