

FCC PART 15 SUBPART C TEST REPORT

FCC PART 15.231

Report Reference No...... : **MAX25030146P01-R01**

FCC ID..... : 2BMJH-D9

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Date of issue.....: March 31, 2025

Testing Laboratory Name : **MAXLAB Testing Co.,Ltd.**

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

Applicant's name.....: **Shenzhen Hongxiangfu Pet Products Co., Ltd**

Address.....: 4/F, bldg. F, Hengqiang Industrial Park, Jian'an Road, Dawangshan Community, Shajing, Bao 'an District, Shenzhen

Test specification..... :

Standard.....: **FCC Part 15.231**

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Test item description.....: **Dog Training Collar**

Trade Mark.....: N/A

Manufacturer.....: Shenzhen Hongxiangfu Pet Products Co., Ltd

Model/Type reference.....: D9

Listed Models: N/A

Ratings.....: ASK

Modulation: 433.92MHz

Frequency.....: DC 3.7V From Battery

Result.....: **PASS**

TEST REPORT

Equipment under Test : **Dog Training Collar**

Model /Type : **D9**

Listed Models : **N/A**

Model Declaration : **N/A**

Applicant : **Shenzhen Hongxiangfu Pet Products Co., Ltd**

Address : **4/F, bldg. F, Hengqiang Industrial Park, Jian'an Road, Dawangshan Community, Shajing, Bao 'an District, Shenzhen**

Manufacturer : **Shenzhen Hongxiangfu Pet Products Co., Ltd**

Address : **4/F, bldg. F, Hengqiang Industrial Park, Jian'an Road, Dawangshan Community, Shajing, Bao 'an District, Shenzhen**

Test Result:	PASS
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The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1 TEST STANDARDS

The tests were performed according to following standards:

[FCC Rules Part 15.231](#): Periodic operation in the band 40.66-40.70 MHz and above 70 MHz.

[ANSI C63.10:2020](#) : American National Standard for Testing Unlicensed Wireless Devices

2 SUMMARY

2.1 General Remarks

Date of receipt of test sample	:	March 15, 2025
Testing commenced on	:	March 15, 2025
Testing concluded on	:	March 27, 2025

2.2 Product Description

Product Name:	Dog Training Collar
Model/Type reference:	D9
Testing sample ID:	MAX25030146P01-R01-1# (Engineer sample), MAX25030146P01-R01-2#(Normal sample)
Power supply:	DC 3.7V From Battery
Modulation:	ASK
Operation frequency:	433.92MHz
Transmit Peak Power:	72.43 dBμV/m
Channel number:	1
Antenna type:	Spring antenna
Antenna gain:	-1.98 dBi

2.3 Equipment Under Test

Power supply system utilised

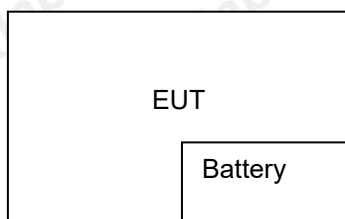
Power supply voltage	:	<input type="radio"/> 230V / 50 Hz	<input type="radio"/> 120V / 60Hz
		<input type="radio"/> 12 V DC	<input type="radio"/> 24 V DC
		<input checked="" type="radio"/> Other (specified in blank below) DC 3.7V From Battery	

2.4 Short description of the Equipment under Test (EUT)

This is a Dog Training Collar .

For more details, refer to the user's manual of the EUT.

2.5 Block Diagram of Test Setup



2.6 Special Accessories

Follow auxiliary equipment(s) test with EUT that provided by the manufacturer or laboratory is listed as follow:

Description	Manufacturer	Model	Technical Parameters	Certificate	Provided by
/	/	/	/	/	/

2.7 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for the device filing to comply with Section 15.231 of the FCC Part 15, Subpart C Rules.

2.8 Modifications

No modifications were implemented to meet testing criteria.

3 TEST ENVIRONMENT

3.1 Address of the test laboratory

MAXLAB Testing Co.,Ltd.

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

3.2 Test Facility

FCC-Registration No.: 562200 Designation Number: CN1338

BSL Testing Co.,Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

Industry Canada Registration Number. Is: 11093A CAB identifier: CN0019

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

A2LA-Lab Cert. No.: 4707.01

BSL Testing Co.,Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

3.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Radiated Emission:

Temperature:	25 ° C
Humidity:	45 %
Atmospheric pressure:	950-1050mbar

Conducted testing:

Temperature:	25 ° C
Humidity:	44 %
Atmospheric pressure:	950-1050mbar

3.4 Summary of measurement results

FCC and IC Requirements		
FCC Part 15.207	Conducted Emission	PASS
FCC Part 15.231(a)(2)	Automatically Deactivate	PASS
FCC Part 15.231(b)	Electric Field Strength of Fundamental Emission	PASS
FCC Part 15.205 & 15.209 & 15.231(b)	Electric Field Strength of Spurious Emission	PASS
FCC Part 15.231(c)	-20dB bandwidth	PASS

Remark: The measurement uncertainty is not included in the test result.

“N/A” denotes test is not applicable in this test report.

3.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 “Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1” and TR-100028-02 “Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2” and is documented in the BSL Testing Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for BSL Testing Co., Ltd. :

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	9KHz~30MHz	3.82 dB	(1)
Radiated Emission	30~1000MHz	4.06 dB	(1)
Radiated Emission	1~18GHz	5.14 dB	(1)
Radiated Emission	18-40GHz	5.38 dB	(1)
Conducted Disturbance	0.15~30MHz	2.14 dB	(1)
Transmitter power conducted	1~40GHz	0.57 dB	(1)
Conducted spurious emission	1~40GHz	1.60 dB	(1)
OBW	1~40GHz	25 Hz	(1)
PSD	1~40GHz	0.01 dBm/3KHz	(1)

- (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.6 Equipments Used during the Test

Conducted Emission					
Test Equipment	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	BSL252	2024-10-28	2025-10-27
EMI Test Receiver	R&S	ESCI 7	BSL552	2024-10-28	2025-10-27
Coaxial Switch	ANRITSU CORP	MP59B	BSL225	2024-10-28	2025-10-27
ENV216 2-L-V-NETZNACHB.DE	ROHDE&SCHWARZ	ENV216	BSL226	2024-10-28	2025-10-27
Coaxial Cable	BSL	N/A	BSL227	N/A	N/A
EMI Test Software	AUDIX	E3	N/A	N/A	N/A
Thermo meter	KTJ	TA328	BSL233	2024-10-28	2025-10-27
Absorbing clamp	Elektronik-Feinmechanik	MDS21	BSL229	2024-10-28	2025-10-27
LISN	R&S	ENV216	308	2024-10-28	2025-10-27
LISN	R&S	ENV216	314	2024-10-28	2025-10-27

Radiation Test equipment					
Test Equipment	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	BSL250	2024-10-28	2025-10-27
Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	BSL251	N/A	N/A
EMI Test Receiver	Rohde & Schwarz	ESU26	BSL203	2024-10-28	2025-10-27
BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	BSL214	2024-10-28	2025-10-27
Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	BSL208	2024-10-28	2025-10-27
Horn Antenna	ETS-LINDGREN	3160	BSL217	2024-10-28	2025-10-27
EMI Test Software	AUDIX	E3	N/A	N/A	N/A
Coaxial Cable	BSL	N/A	BSL213	2024-10-28	2025-10-27
Coaxial Cable	BSL	N/A	BSL211	2024-10-28	2025-10-27
Coaxial cable	BSL	N/A	BSL210	2024-10-28	2025-10-27
Coaxial Cable	BSL	N/A	BSL212	2024-10-28	2025-10-27
Amplifier(100kHz-3GHz)	HP	8347A	BSL204	2024-10-28	2025-10-27
Amplifier(2GHz-20GHz)	HP	84722A	BSL206	2024-10-28	2025-10-27
Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	BSL218	2024-10-28	2025-10-27
Band filter	Amindeon	82346	BSL219	2024-10-28	2025-10-27
Power Meter	Anritsu	ML2495A	BSL540	2024-10-28	2025-10-27
Power Sensor	Anritsu	MA2411B	BSL541	2024-10-28	2025-10-27

Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	BSL575	2024-10-28	2025-10-27
Splitter	Agilent	11636B	BSL237	2024-10-28	2025-10-27
Loop Antenna	ZHINAN	ZN30900A	BSL534	2024-10-28	2025-10-27
Breitband hornantenne	SCHWARZBECK	BBHA 9170	BSL579	2024-10-28	2025-10-27
Amplifier	TDK	PA-02-02	BSL574	2024-10-28	2025-10-27
Amplifier	TDK	PA-02-03	BSL576	2024-10-28	2025-10-27
PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	BSL578	2024-10-28	2025-10-27

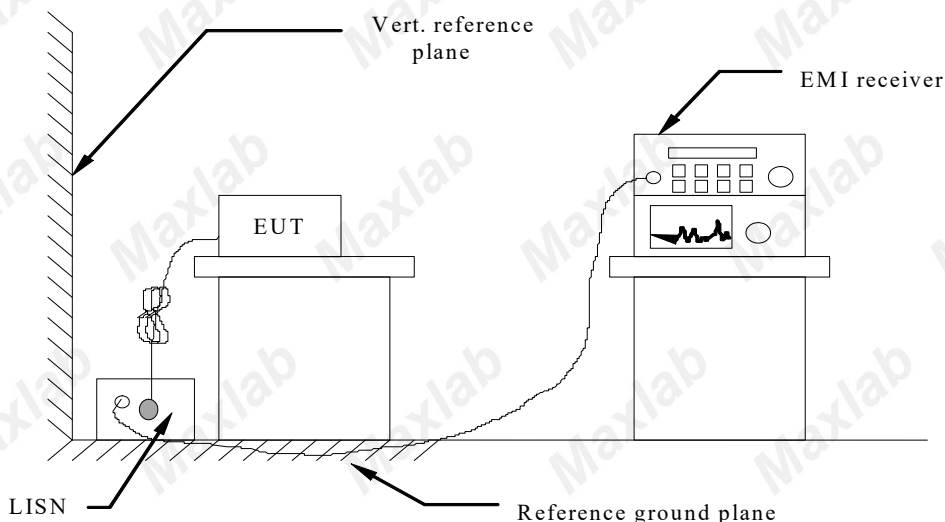
RF Conducted Test:					
Test Equipment	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
MXA Signal Analyzer	Agilent	N9020A	BSL566	2024-10-28	2025-10-27
EMI Test Receiver	R&S	ESCI 7	BSL552	2024-10-28	2025-10-27
Spectrum Analyzer	Agilent	E4440A	BSL533	2024-10-28	2025-10-27
MXG vector Signal Generator	Agilent	N5182A	BSL567	2024-10-28	2025-10-27
ESG Analog Signal Generator	Agilent	E4428C	BSL568	2024-10-28	2025-10-27
USB RF Power Sensor	DARE	RPR3006W	BSL569	2024-10-28	2025-10-27
RF Switch Box	Shongyi	RFSW3003328	BSL571	2024-10-28	2025-10-27
Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	BSL572	2024-10-28	2025-10-27

Note: The Cal.Interval was one year.

4 TEST CONDITIONS AND RESULTS

4.1 AC Power Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

- 1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2020.
- 2 Support equipment, if needed, was placed as per ANSI C63.10-2020
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2020
- 4 The EUT received DC 3.7V power from adapter, the adapter received AC120V/60Hz and AC 240V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5 All support equipments received AC power from a second LISN, if any.
- 6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8 During the above scans, the emissions were maximized by cable manipulation.

AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following:

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
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.

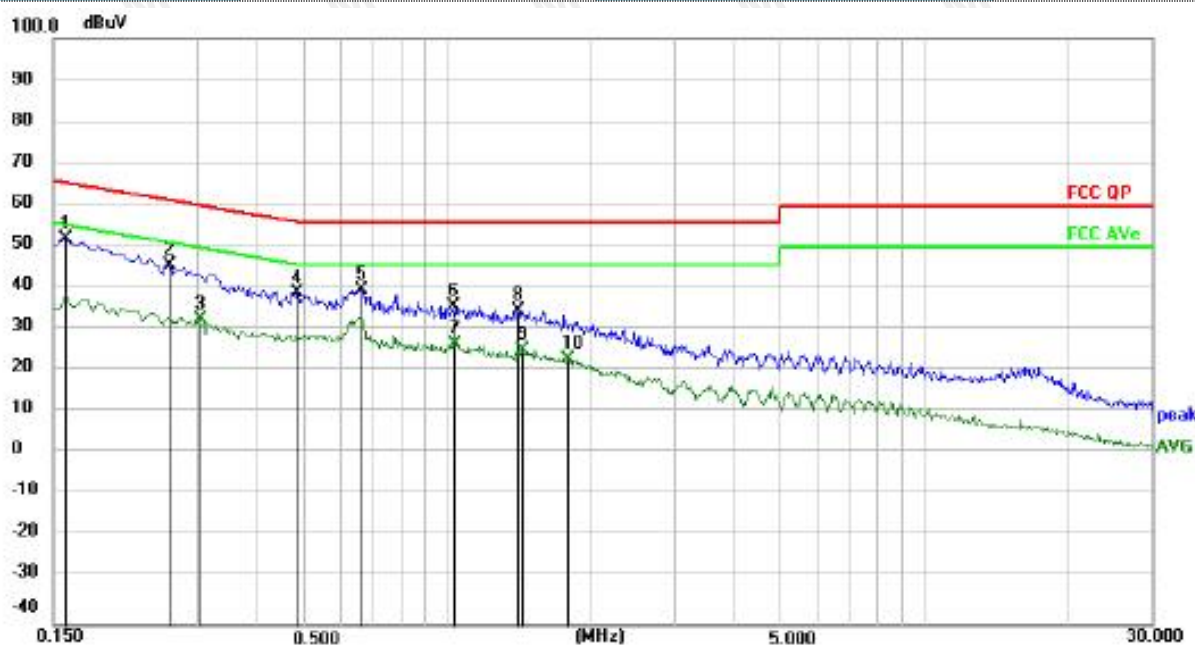
TEST RESULTS

Power supply:

DC3.7V By adapter AC
120V/60Hz

Polarization

L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1 *	0.1590	35.68	16.65	52.33	65.52	-13.19	QP	P
2	0.2625	29.28	16.72	46.00	61.35	-15.35	QP	P
3	0.3030	16.16	16.71	32.87	50.16	-17.29	AVG	P
4	0.4830	22.76	16.68	39.44	56.29	-16.85	QP	P
5	0.6630	23.26	16.66	39.92	56.00	-16.08	QP	P
6	1.0365	19.64	16.61	36.25	56.00	-19.75	QP	P
7	1.0410	10.45	16.61	27.06	46.00	-18.94	AVG	P
8	1.4055	18.65	16.56	35.21	56.00	-20.79	QP	P
9	1.4415	9.11	16.56	25.67	46.00	-20.33	AVG	P
10	1.7970	7.05	16.51	23.56	46.00	-22.44	AVG	P

Note:1).Level (dBμV)= Reading (dBμV)+ Factor (dB)

2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB)

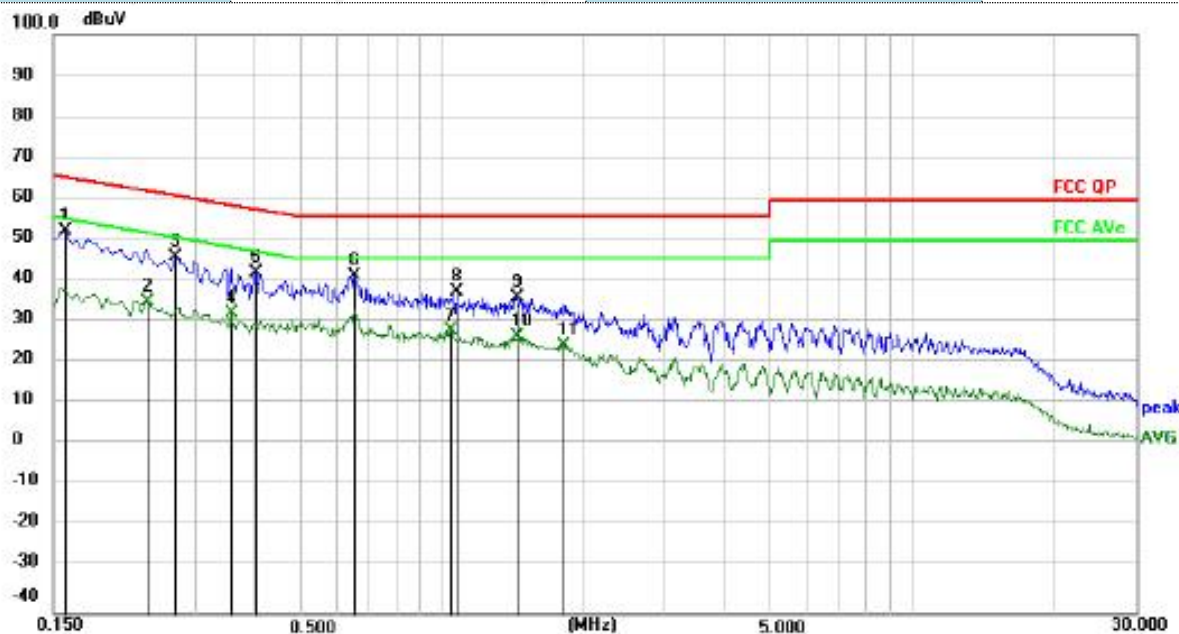
3). Margin(dB) = Limit (dBμV) - Level (dBμV)

Power supply:

DC3.7V By adapter AC
120V/60Hz

Polarization

N



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1 *	0.1590	35.10	17.53	52.63	65.52	-12.89	QP	P
2	0.2355	17.99	17.53	35.52	52.25	-16.73	AVG	P
3	0.2714	28.64	17.52	46.16	61.07	-14.91	QP	P
4	0.3570	15.06	17.52	32.58	48.80	-16.22	AVG	P
5	0.4020	25.05	17.52	42.57	57.81	-15.24	QP	P
6	0.6540	24.23	17.51	41.74	56.00	-14.26	QP	P
7	1.0500	10.87	17.50	28.37	46.00	-17.63	AVG	P
8	1.0815	20.27	17.50	37.77	56.00	-18.23	QP	P
9	1.4460	19.15	17.49	36.64	56.00	-19.36	QP	P
10	1.4595	9.53	17.49	27.02	46.00	-18.98	AVG	P
11	1.8285	7.43	17.48	24.91	46.00	-21.09	AVG	P

Note:1).Level (dBμV)= Reading (dBμV)+ Factor (dB)

2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB)

3). Margin(dB) = Limit (dBμV) - Level (dBμV)

4.2 Radiated Emission

Limit

For intentional device, according to 15.209(a) the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table.

Frequency (MHz)	Distance (Meters)	Radiated (dBμV/m)	Radiated (μV/m)
0.009-0.49	3	$20\log(2400/F(\text{KHz}))+40\log(300/3)$	$2400/F(\text{KHz})$
0.49-1.705	3	$20\log(24000/F(\text{KHz}))+40\log(30/3)$	$24000/F(\text{KHz})$
1.705-30	3	$20\log(30)+40\log(30/3)$	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

In addition to the provisions of 15.231(b), the field strength of emissions from intentional radiators operated under this section shall not exceed the following:

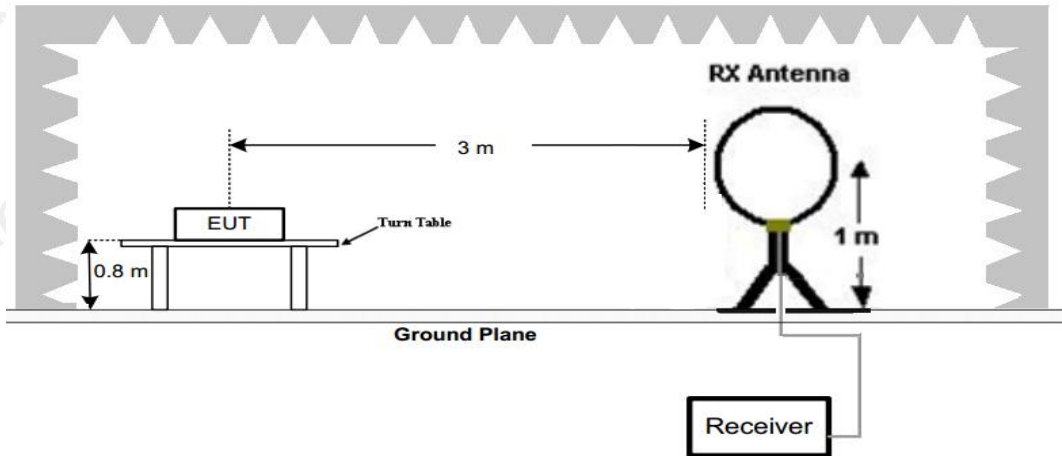
Funda- mental fre- quency (MHz)	Field strength of funda- mental (microvolts/ meter)	Field strength of spurious emissions (microvolts/meter)
40.66– 40.70.	2,250	225
70–130	1,250	125
130–174	¹ 1,250 to 3,750	¹ 125 to 375
174–260	3,750	375
260–470	¹ 3,750 to 12,500	¹ 375 to 1,250
Above 470	12,500	1,250

¹ Linear interpolations.

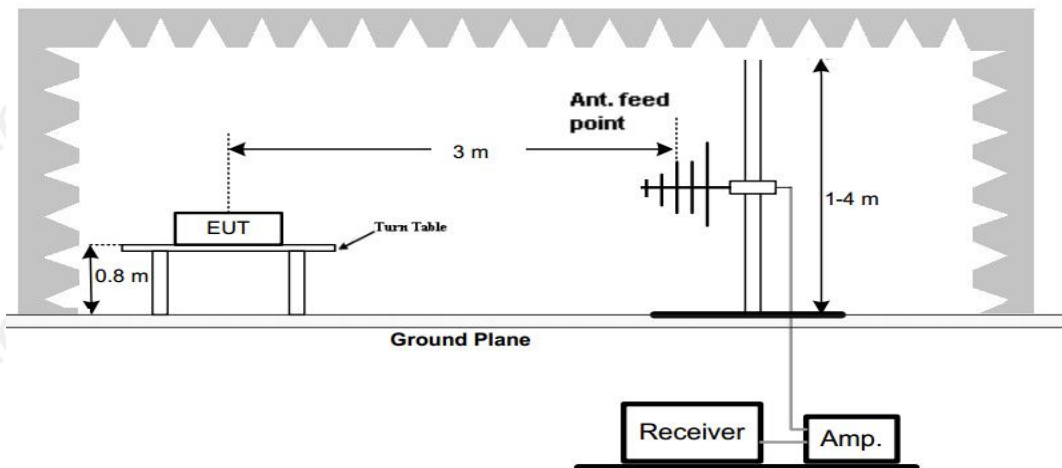
[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 260-470 MHz, $20*\log(41.6667*433.890-7083.3333)=80.82\text{dB}\mu\text{V/m}$ The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]

TEST CONFIGURATION

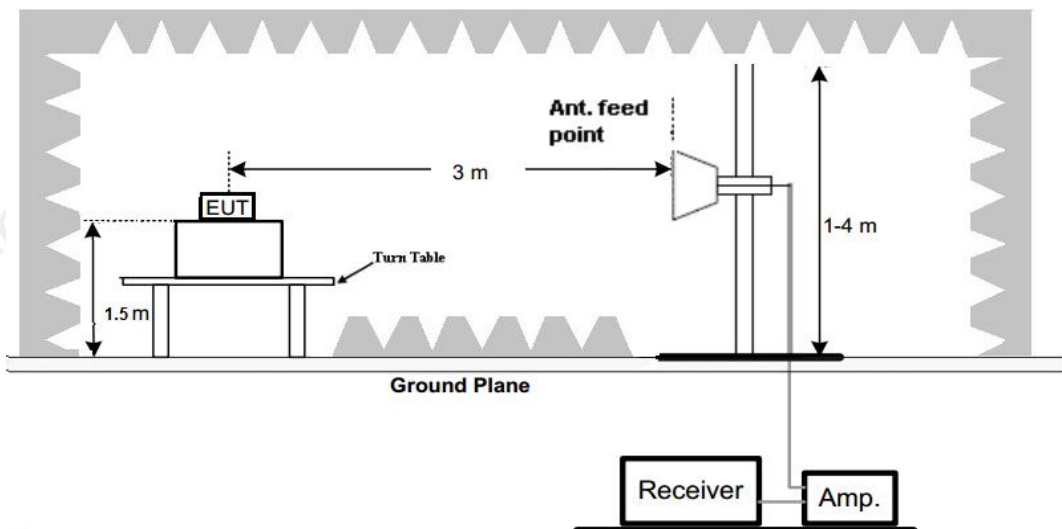
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency below 1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



Test Procedure

1. Below 1GHz measurement the EUT is placed on a turntable which is 0.8m above ground plane, and above 1GHz measurement EUT was placed on a low permittivity and low loss tangent turn table which is 1.5m above ground plane.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn

table from 0°C to 360°C to acquire the highest emissions from EUT

3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.

TEST RESULTS

The emissions from 30MHz to 5GHz are measured peak and average level, below 1 GHz measured QP level, detailed test data please see below. Besides, we tested 3 directions and recorded the worst data.

Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.

Radiated Spurious Emission (Between 30MHz – 1GHz)

Horizontal



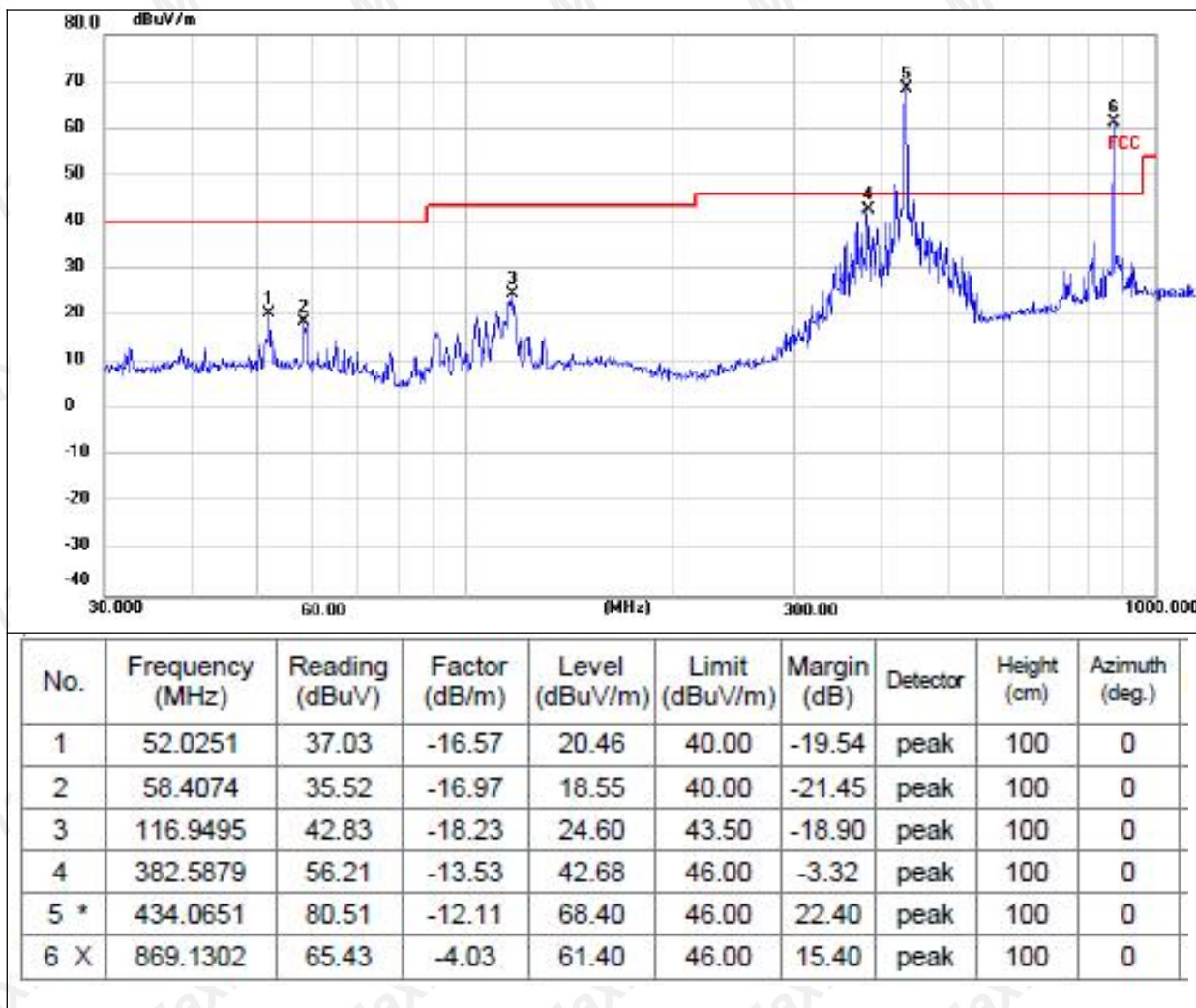
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	41.8596	28.04	-16.36	11.68	40.00	-28.32	peak
2	58.8185	31.08	-16.98	14.10	40.00	-25.90	peak
3	73.3593	29.85	-19.33	10.52	40.00	-29.48	peak
4	121.1231	38.18	-17.83	20.35	43.50	-23.15	peak
5 X	433.9201	84.54	-12.11	72.43	46.00	26.43	peak
6 *	867.8402	76.55	-4.03	62.52	46.00	26.52	peak

Fundamental and Harmonics Result								
Frequency MHz	Peak Level (dBuV/m)	AV Factor (dBuV/m)	Average Level (dBuV/m)	Limitd PK (dBuV/m)	Limitd AV (dBuV/m)	Margin PK(dB)	Margin AV(dB)	Conclusion
433.92	72.43	-13.85	58.58	100.8	80.8	-28.37	-22.22	PASS
867.84	62.52	-13.85	48.67	80.8	60.8	-18.28	-12.13	PASS

Remarks:

- 1.Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2.The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3.AV Level (dBuV/m)= PK Level (dBuV/m)+ AV Factor(dBuV/m)
- 4.Margin(dB) = Limit (dBμV) - Level (dBμV)

Vertical



Fundamental and Harmonics Result								
Frequency MHz	Peak Level (dBuV/m)	AV Factor (dBuV/m)	Average Level (dBuV/m)	Limitd PK (dBuV/m)	Limitd AV (dBuV/m)	Margin PK(dB)	Margin AV(dB)	Conclusion
433.92	68.40	-13.85	54.55	100.8	80.8	-32.40	-26.25	PASS
867.84	61.40	-13.85	47.55	80.8	60.8	-19.40	-13.25	PASS

Remarks:

- 1.Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2.The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3.AV Level (dBuV/m)= PK Level (dBuV/m)+ AV Factor(dBuV/m)
- 4.Margin(dB) = Limit (dBμV) - Level (dBμV)

Radiated Spurious Emission (1GHz to 10th harmonics)

Frequency MHz	Peak Level dBuV/m	Duty cycle factor	Average Level dBuV/m	Limit		Margin dB		Polarization
				PK	AV	PK	AV	
1301.72	50.56	-13.85	36.71	74.0	54.0	-23.44	-17.29	Vertical
1735.25	45.65	-13.85	31.80	74.0	54.0	-28.35	-22.20	Vertical
2603.55	41.26	-13.85	27.41	74.0	54.0	-32.74	-26.59	Vertical
3037.46	36.41	-13.85	22.56	74.0	54.0	-37.59	-31.44	Vertical
3471.35	31.25	-13.85	17.40	74.0	54.0	-42.75	-36.60	Vertical
3905.28	26.52	-13.85	12.67	74.0	54.0	-47.48	-41.33	Vertical
1301.72	49.86	-13.85	36.01	74.0	54.0	-24.14	-17.99	Horizontal
1735.25	44.63	-13.85	30.78	74.0	54.0	-29.37	-23.22	Horizontal
2603.55	40.26	-13.85	26.41	74.0	54.0	-33.74	-27.59	Horizontal
3037.46	34.65	-13.85	20.80	74.0	54.0	-39.35	-33.20	Horizontal
3471.35	30.25	-13.85	16.40	74.0	54.0	-43.75	-37.60	Horizontal
3905.28	26.52	-13.85	12.67	74.0	54.0	-47.48	-41.33	Horizontal

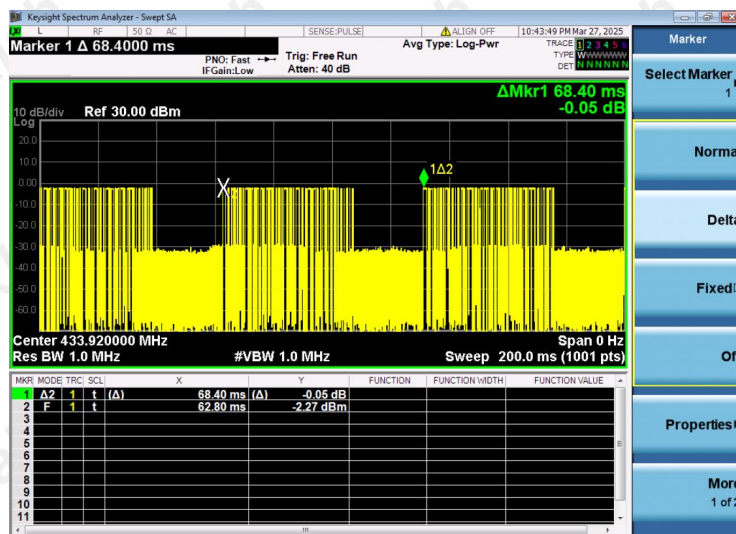
Notes:

1. Average emission Level = Peak Level + Duty cycle factor

2. Duty Cycle= (9.24+4.62)/68.40=0.203

AV Factor=20*log(Duty Cycle)=20*log(0.203)=-13.85

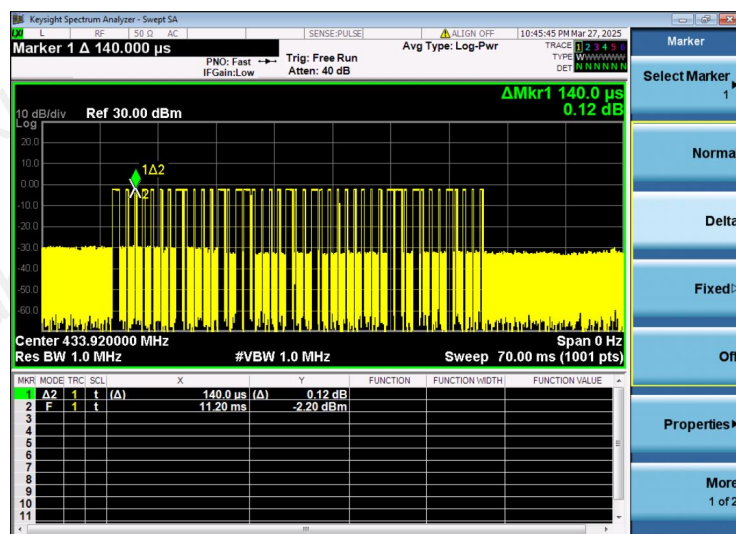
(The plot of Duty Cycle See the follow page)



(Transmit cycle: 68.40ms)



(Time per burst: $0.840\text{ms} \times 11\text{pcs} = 9.24\text{ms}$)



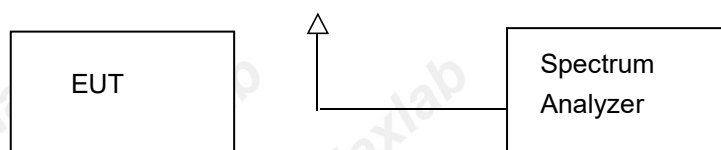
(Time per burst: $0.140\text{ms} \times 33\text{pcs} = 4.62\text{ms}$)

4.3 20dB Bandwidth

Limit

According to 47 CFR 15.231(c) The bandwidth of the emission shall be no wider than 0.25% of the centre frequency for devices operating above 70MHz and below 900MHz. Bandwidth is determined at the points 20dB down from the modulated carrier.

Test Configuration



Test Procedure

The 20dB bandwidth and 99% bandwidth is measured with a spectrum analyzer connected via a receive antenna placed near the EUT while the EUT is operating in transmission mode.

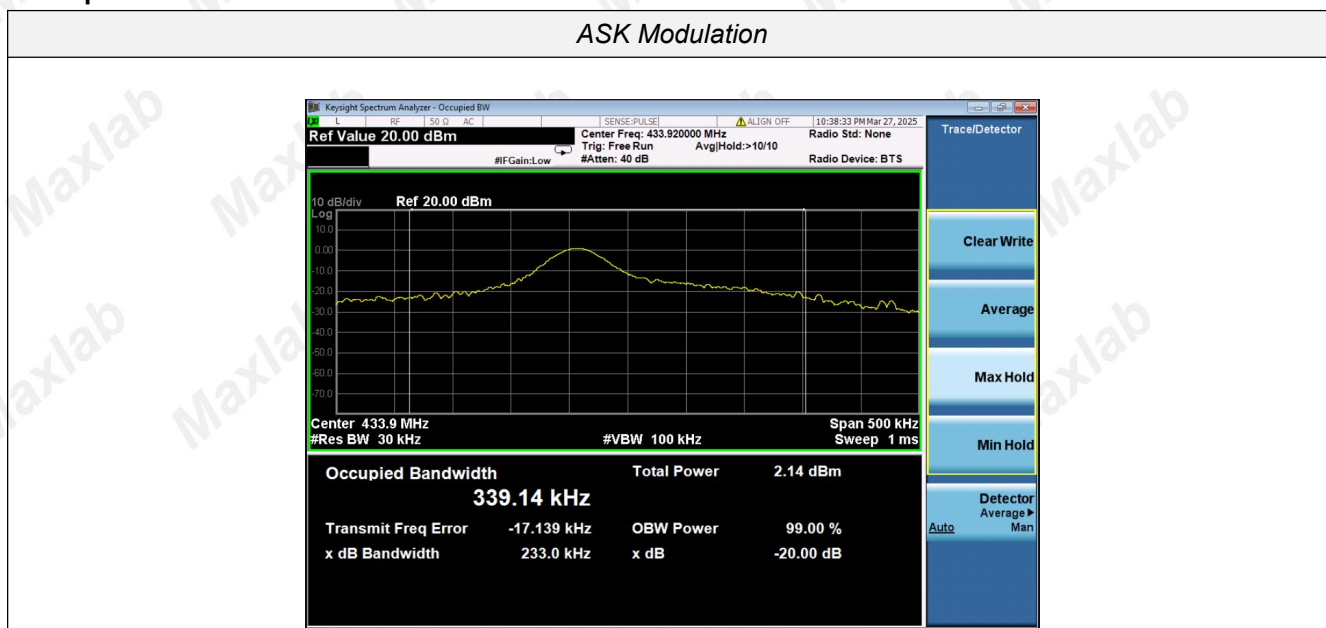
The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

The occupied bandwidth (OBW), that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission.

Test Results

Modulation	Channel Frequency (MHz)	99% OBW (KHz)	20dB bandwidth (KHz)	Limit (KHz)	Result
ASK	433.92	339.14	233.0	$0.25\% \times 433.92 = 1084.8$	Pass

Test plot as follows:

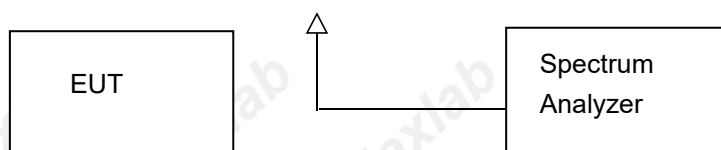


4.4 Deactivation Time

Limit

According to FCC §15.231(a)(2), A transmitter activated automatically shall cease transmission within 5 seconds after activation.

Test Configuration



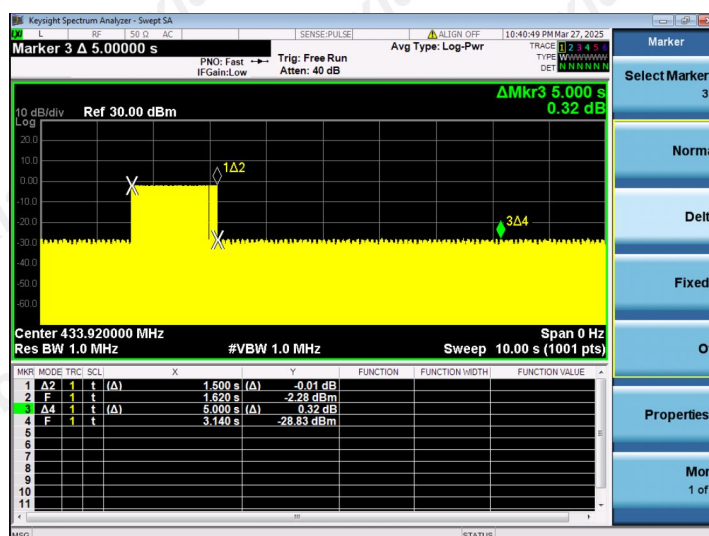
Test Procedure

1. The EUT was placed on a wooded table which is 0.8m height and close to receiver antenna of spectrum analyzer.
2. The spectrum analyzer resolution bandwidth was set to 1 MHz and video bandwidth was set to 1 MHz to encompass all significant spectral components during the test. The spectrum analyzer was operated in linear scale and zero span mode after tuning to the transmitter carrier frequency.

TEST RESULTS

Note: The transmitter was automatically activated, and the carrier frequency 433.92MHz :

Frequency (MHz)	One transmission time (S)	Limit(S)	Result
433.92	1.500	5	Pass



4.5 Antenna Requirement

Standard Applicable

According to FCC Part 15C 15.203

- a) An intentional radiator shall be de-signed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.
- b) 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.

Refer to statement below for compliance.

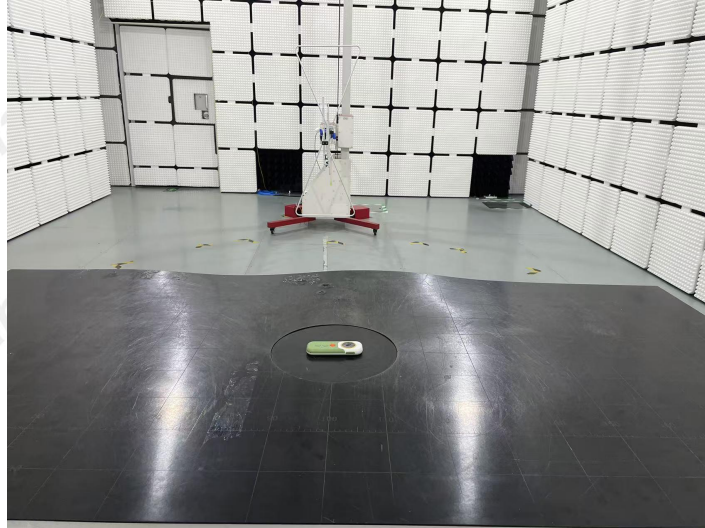
The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

The antenna used in this product is a Spring antenna, The directional gains of antenna used for transmitting is -1.98 dBi.

Remark:The antenna gain is provided by the customer , if the data provided by the customer is not accurate, MAXLAB Testing Co.,Ltd. does not assume any responsibility.

5 Test Setup Photos of the EUT



6 Photos of the EUT

Reference to the report ANNEX A of external photos and ANNEX B of internal photos.

******* End of Report *******